

Test of Spectralink 8741 Basic Bluetooth

To: FCC 47 CFR Part 15.247 & IC RSS-210

Test Report Serial No.: SPEC27-U12 Rev A



TEST REPORT

FROM



Test of Spectralink 8741 Basic Bluetooth

to

To FCC 47 CFR Part 15.247 & IC RSS-210

Test Report Serial No.: SPEC27-U12 Rev A

This report supersedes: NONE

Applicant: Spectralink Corporation
2560 55th Street,
Boulder, Colorado, 80301
USA

Product Function: Bluetooth Wireless IP Telephone

Copy No: pdf Issue Date: 1st December 2014

This Test Report is Issued Under the Authority of:

MiCOM Labs, Inc.

575 Boulder Court
Pleasanton, CA 94566 USA
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www.micomlabs.com



TESTING CERT #12381.U1

MiCOM Labs is an ISO 17025 Accredited Testing Laboratory



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To: FCC 47 CFR Part 15.247 & IC RSS-210
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ACCREDITATION, LISTINGS & RECOGNITION

ACCREDITATION & LISTINGS

MiCOM Labs, Inc. an accredited laboratory complies with the international standard BS EN ISO/IEC 17025. The company is accredited by the American Association for Laboratory Accreditation (A2LA) www.a2la.org test laboratory number 2381.01. MiCOM Labs test schedule is available at the following URL; <http://www.a2la.org/scopepdf/2381-01.pdf>



The American Association for Laboratory Accreditation

Accredited Laboratory

A2LA has accredited

MICOM LABS

Pleasanton, CA

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Presented this 27th day of March 2012.



President & CEO
For the Accreditation Council
Certificate Number 2381.01
Valid to February 28, 2014
Revised November 11, 2013

For the tests or types of tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

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RECOGNITION

MiCOM Labs, Inc has widely recognized Electrical testing capabilities. Our international recognition includes Conformity Assessment Body designation by APEC MRA** countries. Our test reports are widely accepted for global type approvals.

Country	Recognition Body	Status	Phase	Identification No.
USA	Federal Communications Commission (FCC)	TCB	-	US0159 Listing #: 102167
Canada	Industry Canada (IC)	FCB	APEC MRA 2	US0159 Listing #: 4143A-2 4143A-3
Japan	MIC (Ministry of Internal Affairs and Communication)	CAB	APEC MRA 2	RCB 210
	VCCI	--	--	A-0012
Europe	European Commission	NB	EU MRA	NB 2280
Australia	Australian Communications and Media Authority (ACMA)	CAB	APEC MRA 1	US0159
Hong Kong	Office of the Telecommunication Authority (OFTA)	CAB	APEC MRA 1	
Korea	Ministry of Information and Communication Radio Research Laboratory (RRL)	CAB	APEC MRA 1	
Singapore	Infocomm Development Authority (IDA)	CAB	APEC MRA 1	
Taiwan	National Communications Commission (NCC) Bureau of Standards, Metrology and Inspection (BSMI)	CAB	APEC MRA 1	
Vietnam	Ministry of Communication (MIC)	CAB	APEC MRA 1	

**APEC MRA – Asia Pacific Economic Community Mutual Recognition Agreement.

Is a recognition agreement under which test lab is accredited to regulatory standards of the APEC member countries.

Phase I - recognition for product testing

Phase II – recognition for both product testing and certification

N/A – Not Applicable

**EU MRA – European Union Mutual Recognition Agreement.

Is a recognition agreement under which test lab is accredited to regulatory standards of the EU member countries.

**NB – Notified Body

PRODUCT CERTIFICATION

MiCOM Labs, Inc. is an accredited Product Certification Body per the international standard EN ISO/IEC Guide 65. The company is accredited by the American Association for Laboratory Accreditation (A2LA) www.a2la.org test laboratory number 2381.02. MiCOM Labs test schedule is available at the following URL; <http://www.a2la.org/scopepdf/2381-02.pdf>



The American Association for Laboratory Accreditation

Accredited Product Certification Body

A2LA has accredited

MICOM LABS

Pleasanton, CA

for technical competence as a

Product Certification Body

This product certification body is accredited in accordance with the recognized International Standard ISO/IEC Guide 65:1996 General requirements for bodies operating product certification systems. This accreditation demonstrates technical competence for a defined scope and the operation of a quality management system.

Presented this 27th day of March 2012.





President & CEO
For the Accreditation Council
Certificate Number 2381.02
Valid to February 28, 2014
Revised November 11, 2013

For the product certification schemes to which this accreditation applies, please refer to the organization's Product Certification Scope of Accreditation

United States of America – Telecommunication Certification Body (TCB)

TCB Identifier – US0159

Industry Canada – Certification Body

CAB Identifier – US0159

Europe – Notified Body

Notified Body Identifier - 2280

Japan – Recognized Certification Body (RCB)

RCB Identifier - 210

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DOCUMENT HISTORY

Document History		
Revision	Date	Comments
Draft		
Rev A	1 st December 2014	Initial release

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1. TEST RESULT CERTIFICATE

Manufacturer:	Spectralink Corporation 2560 55th Street, Boulder, Colorado, 80301 USA	Tested By:	MiCOM Labs, Inc. 575 Boulder Court Pleasanton California, 94566, USA
EUT:	Bluetooth Wireless IP Telephone	Telephone:	+1 925 462 0304
Model:	8741	Fax:	+1 925 462 0306
S/N's:	Development Model		
Test Date(s):	30th Oct - 17th Nov 2013	Website:	www.micomlabs.com

STANDARD(S)	TEST RESULTS
FCC 47 CFR Part 15.247 & IC RSS-210	EQUIPMENT COMPLIES

MiCOM Labs, Inc. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

Notes:

1. This document reports conditions under which testing was conducted and the results of testing performed.
2. Details of test methods used have been recorded and kept on file by the laboratory.
3. Test results apply only to the item(s) tested.

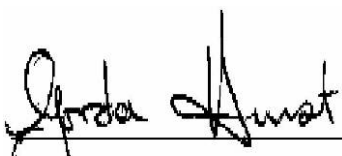
Approved & Released for MiCOM Labs, Inc. by:



TESTING CERT #2381.01



Graeme Grieve
Quality Manager MiCOM Labs,



Gordon Hurst
President & CEO MiCOM Labs, Inc.

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2. REFERENCES AND MEASUREMENT UNCERTAINTY

2.1. Normative References

REF.	PUBLICATION	YEAR	TITLE
i.	FCC 47 CFR Part 15, Subpart C	2013	Title 47: Telecommunication PART 15—RADIO FREQUENCY DEVICES Subpart C—Intentional Radiators
ii.	RSS-210 Annex 8	2010	Radio Standards Specification 210, Issue 8, Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment
iii.	FCC OET KDB 662911	4 th April 2011	Emissions Testing of Transmitters with Multiple Outputs in the Same Band
iv.	DA 00-705	2000	FCC DA 00-705 "Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems" released March 30, 2000
v.	RSS-GEN	2010	Radio Standards Specification-Gen, Issue 3, General Requirements and Information for the Certification of Radiocommunication Equipment
vi.	FCC 47 CFR Part 15, Subpart B	2010	47 CFR Part 15, SubPart B; Unintentional Radiators
vii.	ICES-003	2004	Spectrum Management and Telecommunications Policy Interference-Causing Equipment Standard Digital Apparatus; Issue 4
viii.	ANSI C63.4	2009	American National Standards for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
ix.	CISPR 22/ EN 55022	2008 2006+A1:2007	Limits and Methods of Measurements of Radio Disturbance Characteristics of Information Technology Equipment
x.	M 3003	Edition 2 Jan. 2007	Expression of Uncertainty and Confidence in Measurements
xi.	LAB34	Edition 1 Aug 2002	The expression of uncertainty in EMC Testing
xii.	ETSI TR 100 028	2001	Parts 1 and 2 Electromagnetic compatibility and Radio Spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics
xiii.	A2LA	July 2012	Reference to A2LA Accreditation Status – A2LA Advertising Policy



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2.2. Test and Uncertainty Procedures

Conducted and radiated emission measurements were conducted in accordance with American National Standards Institute ANSI C63.4, listed in the Normative References section of this report.

Measurement uncertainty figures are calculated in accordance with ETSI TR 100 028 Parts 1 and 2.

Measurement uncertainties stated are based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95 % in accordance with UKAS document M 3003 listed in the Normative References section of this report.

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3. PRODUCT DETAILS AND TEST CONFIGURATIONS

3.1. Technical Details

Details	Description
Purpose:	Test of the Spectralink 8741 Basic Bluetooth Wireless IP telephone to FCC Part 15.247 and Industry Canada RSS-210 regulations.
Applicant:	Spectralink Corporation 2560 55th Street, Boulder, Colorado, 80301 USA
Manufacturer:	Celestica (Thailand) Ltd 49/18 Moo 5, Laem Chabang Industrial Estate Tungsukhla, Chonburi, Thailand 20230
Laboratory performing the tests:	MiCOM Labs, Inc. 575 Boulder Court Pleasanton, California 94566 USA
Test report reference number:	SPEC27-U12 Rev A
Date EUT received:	24 th October 2013
Standard(s) applied:	FCC 47 CFR Part 15.247 & IC RSS-210
Dates of test (from - to):	30th Oct - 17th Nov 2013
No of Units Tested:	One Radiated Testing : Test code operating in normal phone
Type of Equipment:	Bluetooth Wireless IP Telephone
Manufacturers Trade Name:	Spectralink
Model(s):	8741
Location for use:	Indoor
Declared Frequency Range(s):	2400 - 2483.5 MHz
Hardware Rev:	930-0002-003Rev X1
Software Rev:	Build 1835
Type of Modulation:	GFSK
Declared Output Power:	+10 dBm
EUT Modes of Operation:	DH1, DH3
Transmit/Receive Operation:	Time Division Duplex
System Beam Forming:	EUT has no capability for antenna beam forming
Rated Input Voltage and Current:	3.6 Vdc (Battery)
Operating Temperature Range:	Declared range 0° to +40°C
Equipment Dimensions:	144.6 (h) x 77.2 (w) x 27.3 (t) mm
Weight:	240 grams
Primary function of equipment:	Wireless Telephony

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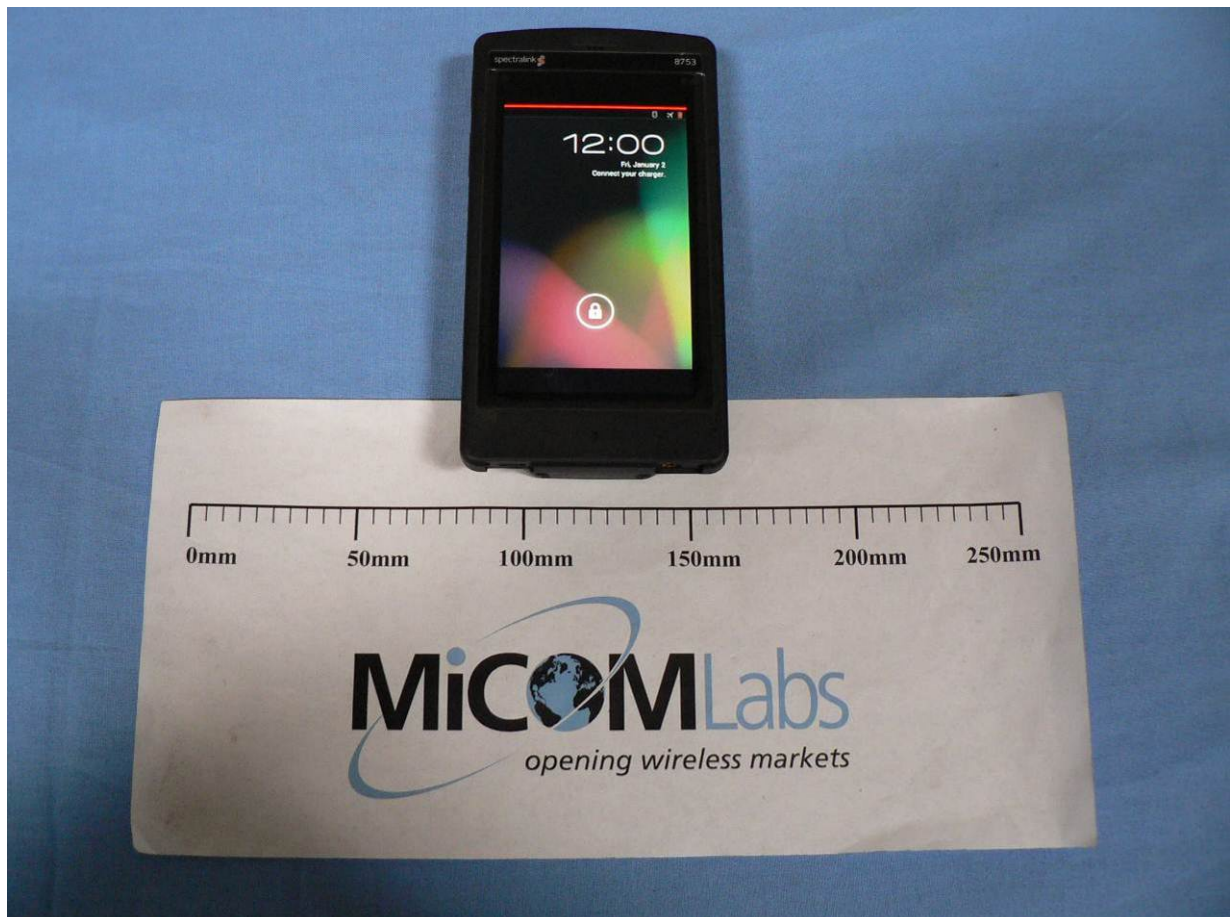
3.2. Scope of Test Program

Spectralink 8741 Basic Bluetooth RF Testing

The scope of the test program was to test the Spectralink 8741 Basic Bluetooth, in the frequency range 2400 - 2483.5 MHz for compliance against FCC 47 CFR Part 15.247 and Industry Canada RSS-210 specifications for Bluetooth operation 802.15.

NOTE: Per the FCC communication regarding Bluetooth EDR operation (bandwidth > 500 kHz) the device can be tested as a DTS (Digital Transmission System). The results in this report show compliance to DTS operation.

Spectralink 8741 Basic Bluetooth (Front)



Spectralink 8741 Basic Bluetooth (Rear)





3.3. Equipment Model(s) and Serial Number(s)

Equipment Type	Equipment Description (Including Brand Name)	Mfr	Model No.	Serial No.
EUT	Wireless IP Phone (Radiated Test Phone)	Spectralink	8741	Development Model
Support	Laptop PC	IBM	Thinkpad	None

3.4. Antenna Details

Antenna Type	Manufacturer	Model Number	Antenna Gain (dBi)
			2.4 GHz
Plated on PCB	Spectralink	Not Applicable	1.2

3.5. Cabling and I/O Ports

Number and type of I/O ports

1. 1 x Micro USB On The Go (OTG) + Charging

3.6. Test Configurations

Initial testing was performed on the EUT to find worst case test variant. Variants tested was DH1 and DH5.

Operational Mode(s) (802.15)	Variant	Packet Type (µS)	Frequencies (MHz)
DH1	Bluetooth	366.0	2,402
DH5	Bluetooth	2,870.0	2,441 2,480

Results for the above configurations are provided in this report.

Antenna Test Configurations for Radiated Emissions

Results for the following configurations are provided in this report.

15.247 2400 – 2483.5 MHz		KEY;- SE – Spurious Emission BE – Band-Edge
DH1	b SE 2402	
	b SE 2440	
	b SE 2480	
	BE b 2390	
	BE b 2483.5	

NOTE: Per the FCC communication regarding Bluetooth and EDR operation (bandwidth > 500 kHz) the device was tested as a DTS (Digital Transmission System). The results in this report show compliance to DTS operation.

3.7. Equipment Modifications

The following modifications were required to bring the equipment into compliance:

1. NONE

3.8. Deviations from the Test Standard

The following deviations from the test standard were required in order to complete the test program:

1. NONE

4. TEST EQUIPMENT CONFIGURATION(S)

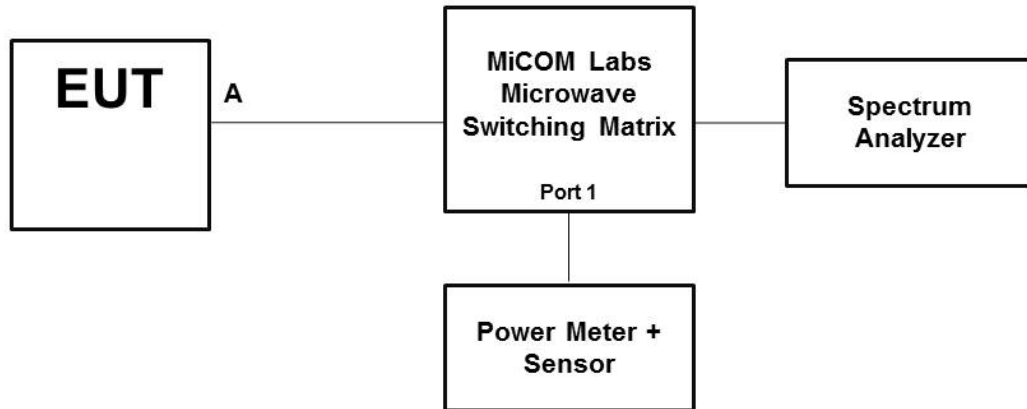
4.1. Conducted RF Emission Test Set-up

The following tests were performed using the conducted test set-up shown in the diagram below.

1. Section 6.1.1.1. 6 dB and 99% Bandwidth
2. Section 6.1.1.2. Peak Output Power
3. Section 6.1.1.3. Power Spectral Density
4. Section 6.1.1.4. Conducted Spurious Emissions

Conducted Test Set-Up Pictorial Representation

Test Measurement set up

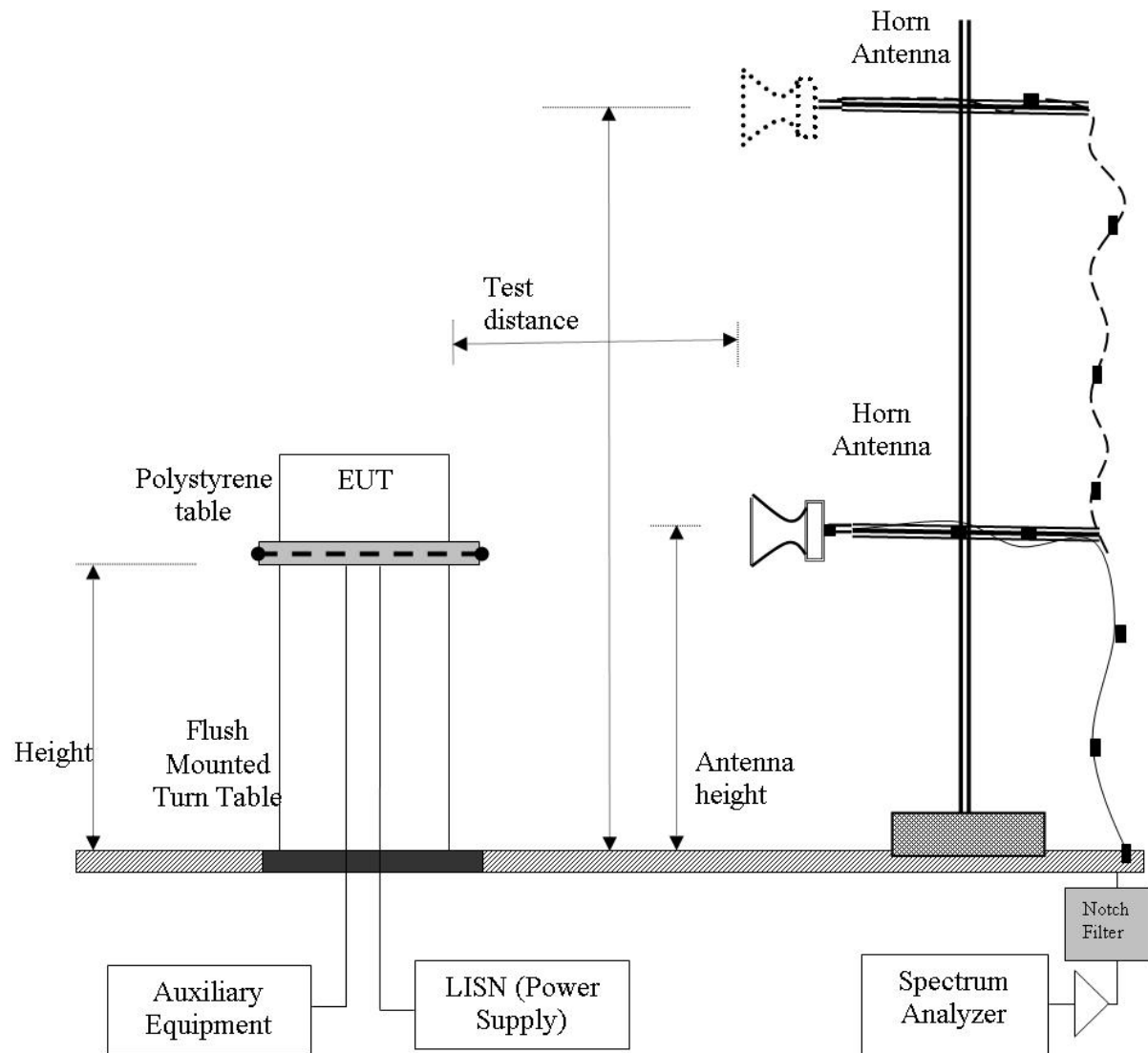


Conducted Test Measurement Setup

4.2. Radiated Spurious Emission Test Set-up > 1 GHz

The following tests were performed using the conducted test set-up shown in the diagram below.

Radiated Emission Measurement Setup – Above 1 GHz

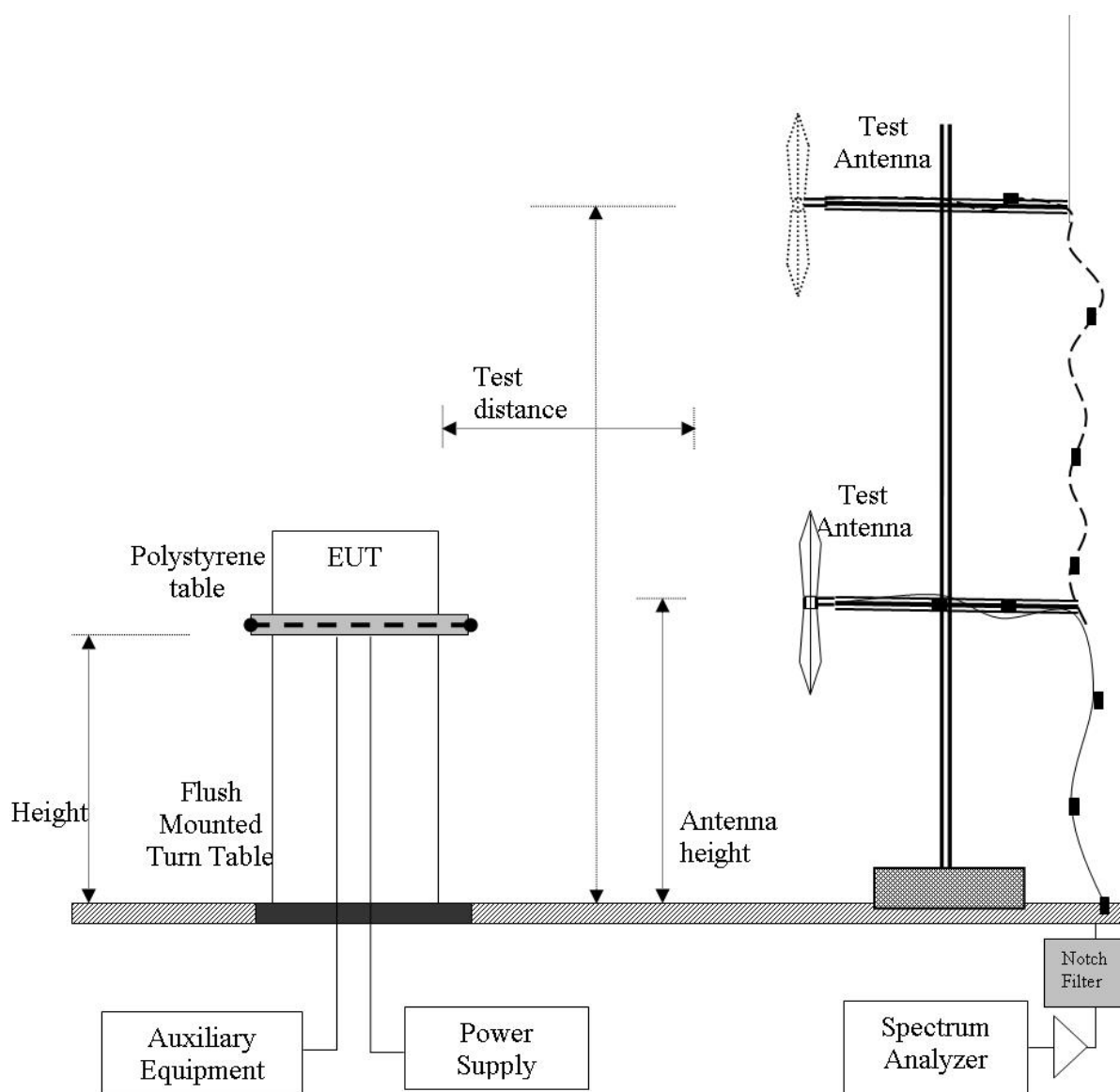


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4.3. Digital Emissions Test Set-up (0.03 – 1 GHz)

The following tests were performed using the conducted test set-up shown in the diagram below.

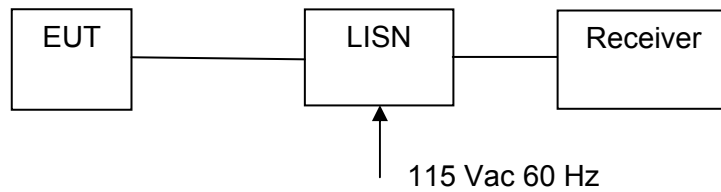
Digital Emission Measurement Setup – Below 1 GHz



4.4. ac Wireline Emission Test Set-up

The following tests were performed using the conducted test set-up shown in the diagram below.

1. Section 6.1.3 ac Wireline Conducted Emissions



Measurement Setup for Conducted Emissions Test

5. TEST SUMMARY

List of Measurements

The following table represents the list of measurements required under the **FCC CFR47 Part 15.247** and **Industry Canada RSS-210** and **Industry Canada RSS-Gen**.

Section(s)	Test Items	Description	Condition	Result	Test Report Section
15.247(a)(2) A8.2(1) 4.4	6 dB and 99 % Bandwidths	≥500 kHz	Conducted	Complies	6.1.1.1
15.247(b)(3) 15.31(e) A8.4(4)	Peak Output Power Voltage Variation	Shall not exceed 1W Variation of supply voltage 85 % -115 %	Conducted	Complies	6.1.1.2
15.247(e) A8.2	Peak Power Spectral Density	Shall not be greater than +8 dBm in any 3 kHz band	Conducted	Complies	6.1.1.3
15.247(d) 15.205 / 15.209 A8.5 2.2 4.7	Spurious Emissions (30MHz - 26 GHz b/g and 30 MHz – 40 GHz a)	The radiated emission in any 100 kHz of out-band shall be at least 20 dB below the highest in-band spectral density	Conducted	Complies	6.1.1.4
15.247(i) 5.5	Maximum Permissible Exposure	Exposure to radio frequency energy levels	Conducted	Complies	6.1.1.5



List of Measurements (continued)

The following table represents the list of measurements required under the **FCC CFR47 Part 15.247**, **Industry Canada RSS-210**, and **Industry Canada RSS-Gen**.

Section(s)	Test Items	Description	Condition	Result	Test Report Section
15.247(d) 15.205 / 15.209 A8.5 2.2 2.6 4.7	Radiated Emissions	Restricted Bands	Radiated	Complies	6.1.2
	Transmitter Radiated Spurious Emissions	Emissions above 1 GHz		Complies	
	Radiated Band Edge	Band-edge results Peak Emissions		Complies	
15.205 / 15.209 2.2	Radiated Spurious Emissions	Emissions <1 GHz (30M-1 GHz)	Radiated	Complies	6.1.2.1
15.207 7.2.2	AC Wireline Conducted Emissions 150 kHz–30 MHz	Conducted Emissions	Conducted	Complies	6.1.3

Note 1: Test results reported in this document relate only to the items tested

Note 2: The required tests demonstrated compliance as per client declaration of test configuration, monitoring methodology and associated pass/fail criteria

Note 3: Section 3.7 Equipment Modifications highlights the equipment modifications that were required to bring the product into compliance with the above test matrix

NOTE: Per the FCC communication regarding Bluetooth and EDR operation (bandwidth > 500 kHz) the device was tested as a DTS (Digital Transmission System). The results in this report show compliance to DTS operation.



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6. TEST RESULTS

6.1. Device Characteristics

6.1.1. Conducted Testing

6.1.1.1. 6 dB and 99 % Bandwidth

Conducted Test Conditions for 6 dB and 99% Bandwidth			
Standard:	FCC CFR 47:15.247	Ambient Temp. (°C):	24.0 - 27.5
Test Heading:	6 dB and 99 % Bandwidth	Rel. Humidity (%):	32 - 45
Standard Section(s):	15.247 (a)(2)	Pressure (mBars):	999 - 1001
Reference Document(s):	KDB 558074 - D01 DTS Measurement Guidance v01: Section 5.1 Emission Bandwidth		
Test Procedure for 6 dB and 99% Bandwidth Measurement The bandwidth at 6 dB and 99 % was measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate centre frequency.			

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Equipment Configuration for 6 dB & 99% Bandwidth

Variant:	DH1	Duty Cycle (%):	100
Data Rate:	1 MBit/s	Antenna Gain (dBi):	Not Applicable
Modulation:	OFDM	Beam Forming Gain (Y):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 6 dB Bandwidth (MHz)				6 dB Bandwidth (MHz)		Limit	Lowest Margin
	Port(s)				Highest	Lowest	KHz	MHz
MHz	a	b	c	d				
2402.0	0.511	--	--	--	0.511	0.511	≥500.0	-0.01
2441.0	0.520	--	--	--	0.520	0.520	≥500.0	-0.02
2480.0	0.514	--	--	--	0.514	0.514	≥500.0	-0.01

Test Frequency	Measured 99% Bandwidth (MHz)				Maximum 99% Bandwidth (MHz)		
	Port(s)						
MHz	a	b	c	d			
2402.0	0.944	--	--	--	0.944		
2441.0	0.953	--	--	--	0.953		
2480.0	0.944	--	--	--	0.944		

Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	≤2.81 dB

Note: click the link in the above results matrix to view the plot

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Equipment Configuration for 6 dB & 99% Bandwidth

Variant:	DH5	Duty Cycle (%):	100
Data Rate:	3 MBit/s	Antenna Gain (dBi):	Not Applicable
Modulation:	OFDM	Beam Forming Gain (Y):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency MHz	Measured 6 dB Bandwidth (MHz)				6 dB Bandwidth (MHz)		Limit	Lowest Margin
	Port(s)				Highest	Lowest	KHz	MHz
	a	b	c	d				
2402.0	1.118	--	--	--	1.118	1.118	≥500.0	-0.62
2441.0	1.118	--	--	--	1.118	1.118	≥500.0	-0.62
2480.0	1.124	--	--	--	1.124	1.124	≥500.0	-0.62

Test Frequency	Measured 99% Bandwidth (MHz)				Maximum 99% Bandwidth (MHz)		
	Port(s)						
	MHz	a	b	c		d	
2402.0	1.275	--	--	--	1.275		
2441.0	1.275	--	--	--	1.275		
2480.0	1.275	--	--	--	1.275		

Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	≤2.81 dB

Note: click the link in the above results matrix to view the plot

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Specification

Limits

§15.247 (a)(2) & RSS-210 §A8.2(a)

The minimum 6 dB bandwidth shall be at least 500 kHz.

Traceability

Test Equipment Used

0158, 0287, 0252, 0313, 0314, 0070, 0116, 0117

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6.1.1.2. Peak Output Power

Conducted Test Conditions for Fundamental Emission Output Power			
Standard:	FCC CFR 47:15.247	Ambient Temp. (°C):	24.0 - 27.5
Test Heading:	Emission Output Power	Rel. Humidity (%):	32 - 45
Standard Section(s):	15.247 (a)(2)	Pressure (mBars):	999 - 1004
Reference Document(s):	KDB 558074 - D01 DTS Measurement Guidance v01: Section 5.2 Fundamental Emission Output Power KDB 662911 was implemented for In-band power measurements. The measure and sum technique was implemented in all cases.		
Test Procedure for Fundamental Emission Output Power Measurement The transmitter terminal of EUT was connected to the input of the spectrum analyzer set to measure peak power. The resolution filter bandwidth was set to 6 dB, peak detector selected and the analyzer built-in power function was used to integrate peak power over the 20 dB bandwidth. Supporting Information Calculated Power = A + G + 10 log (1/x) dBm A = Total Power [10 Log10 (10 ^{a/10} + 10 ^{b/10} + 10 ^{c/10} + 10 ^{d/10})], G = Antenna Gain, x = Duty Cycle			

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Equipment Configuration for Peak Output Power

Variant:	DH1	Duty Cycle (%):	100
Data Rate:	1 MBit/s	Antenna Gain (dBi):	1.20
Modulation:	OFDM	Beam Forming Gain (Y):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency MHz	Measured Output Power (dBm)				Calculated Total Power Σ Port(s) dBm	Limit dBm	Margin dBm	EUT Power Setting
	a	b	c	d				
2402.0	16.50	--	--	--	16.50	30.00	-13.50	Max
2441.0	16.46	--	--	--	16.46	30.00	-13.54	Max
2480.0	16.69	--	--	--	16.69	30.00	-13.31	Max

Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	≤1.33 dB

Note: click the link in the above results matrix to view the plot

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Equipment Configuration for Peak Output Power

Variant:	DH5	Duty Cycle (%):	100
Data Rate:	3 MBit/s	Antenna Gain (dBi):	1.20
Modulation:	OFDM	Beam Forming Gain (Y):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency MHz	Measured Output Power (dBm)				Calculated Total Power Σ Port(s) dBm	Limit dBm	Margin dBm	EUT Power Setting
	a	b	c	d				
2402.0	14.82	--	--	--	14.82	30.00	-15.18	Max
2441.0	14.79	--	--	--	14.79	30.00	-15.21	Max
2480.0	14.96	--	--	--	14.96	30.00	-15.04	Max

Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	≤1.33 dB

Note: click the link in the above results matrix to view the plot

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Specification

Limits

§15.247 (b) The maximum peak output power of the intentional radiator shall not exceed the following:

§15.247 (b) (3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz bands: 1.0 watt.

15.247 (b) (4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

15.247 (c) Operation with directional antenna gains greater than 6 dBi.

(1) Fixed point-to-point operation:

(i) Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

(ii) Systems operating in the 5725–5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted output power.

§15.31 (e) For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

§ RSS-210 A8.4(4) For systems employing digital modulation techniques operating in the 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz bands the maximum peak conducted power shall not exceed 1 watt.

Traceability

Method	Test Equipment Used
Measurements were made per work instruction WI-01 'Measuring RF Output Power'	0158, 0287, 0252, 0313, 0314, 0070, 0116, 0117



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6.1.1.3. Power Spectral Density

Conducted Test Conditions for Power Spectral Density			
Standard:	FCC CFR 47:15.247	Ambient Temp. (°C):	24.0 - 27.5
Test Heading:	Power Spectral Density	Rel. Humidity (%):	32 - 45
Standard Section(s):	15.247 (e)	Pressure (mBars):	999 - 1001
Reference Document(s):	KDB 558074 - D01 DTS Measurement Guidance v01: Section 5.3 Maximum Power Spectral Density Level in the Emission Bandwidth		
Test Procedure for Power Spectral Density The transmitter output was connected to a spectrum analyzer and the maximum level in a 3 kHz bandwidth was measured. A peak value was found over the full emission bandwidth and the frequency span reduced to obtain enhanced resolution. Sweep time ≥ span / 3 kHz with video averaging turned off. The Peak Power Spectral Density is the highest level found across the emission in a 3 kHz resolution bandwidth.			
Supporting Information Calculated Power = A + 10 log (1/x) dBm A = Total Power Spectral Density [10 Log10 (10 ^{a/10} + 10 ^{b/10} + 10 ^{c/10} + 10 ^{d/10})] x = Duty Cycle Limit Line: KDB 662911 was implemented for In-band power spectral density (PSD) measurements - Option (2) measure and subtract 10 log (N) dB from the limit for devices with multiple RF ports			

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Equipment Configuration for Power Spectral Density - Peak

Variant:	DH1	Duty Cycle (%):	100
Data Rate:	1 MBit/s	Antenna Gain (dBi):	Not Applicable
Modulation:	OFDM	Beam Forming Gain (Y):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density (dBm)				Calculated Total Power Spectral Density		Limit	Margin
	Port(s)				dBm			
MHz	a	b	c	d	Σ Port(s) per 30kHz RBW	Conversion to 3 kHz RBW	dBm	dB
2402.0	8.175	--	--	--	8.175	-1.825	8.00	-9.82
2441.0	8.075	--	--	--	8.075	-1.925	8.00	-9.93
2480.0	8.313	--	--	--	8.313	-1.687	8.00	-9.69

Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	≤ 2.81 dB

Note: click the link in the above results matrix to view the plot

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Equipment Configuration for Power Spectral Density - Peak

Variant:	DH5	Duty Cycle (%):	100
Data Rate:	3 MBit/s	Antenna Gain (dBi):	Not Applicable
Modulation:	OFDM	Beam Forming Gain (Y):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density (dBm)				Calculated Total Power Spectral Density		Limit	Margin
	Port(s)				dBm			
MHz	a	b	c	d	Σ Port(s) per 30kHz RBW	Conversion to 3 kHz RBW	dBm	dB
2402.0	2.759	--	--	--	2.759	-7.241	8.00	-15.24
2441.0	2.655	--	--	--	2.655	-7.345	8.00	-15.35
2480.0	2.922	--	--	--	2.922	-7.078	8.00	-15.08

Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	≤ 2.81 dB

Note: click the link in the above results matrix to view the plot

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Specification

Peak Power Spectral Density Limits

§15.247(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than +8 dBm in any 3 kHz band during any time interval of continuous transmission

RSS-210 §A8.2(2) The transmitter power spectral density (into the antenna) shall not be greater than +8 dBm in any 3 kHz band during any time interval of continuous transmission or over 1.0 second if the transmission exceeds 1.0 second duration.

Traceability

Method	Test Equipment Used
Measurements were made per work instruction WI-01 'Measuring RF Output Power'	0158, 0287, 0252, 0313, 0314, 0070, 0116, 0117

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6.1.1.4. Conducted Spurious Emissions

Conducted Test Conditions for Transmitter Conducted Spurious and Band-Edge Emissions			
Standard:	FCC CFR 47:15.247	Ambient Temp. (°C):	24.0 - 27.5
Test Heading:	Max Unwanted Emission Levels	Rel. Humidity (%):	32 - 45
Standard Section(s):	15.247 (d)	Pressure (mBars):	999 - 1001
Reference Document(s):	KDB 558074 - D01 DTS Measurement Guidance v01: Section 5.4 Maximum Unwanted Emission Levels		
Test Procedure for Transmitter Conducted Spurious and Band-Edge Emissions Measurement Transmitter Conducted Spurious and Band-Edge emissions were measured at a limit of 20 dB below the highest in-band spectral density measured with a spectrum analyzer connected to the antenna terminal. Measurements were made while EUT was operating in transmit mode of operation at the appropriate centre frequency closest to the band-edge. Emissions were maximized during the measurement and limits derived from the peak spectral power and drawn on each plot.			

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Equipment Configuration for Conducted Low Band-Edge Emissions - Peak

Variant:	DH1	Duty Cycle (%):	100
Data Rate:	1 MBit/s	Antenna Gain (dBi):	Not Applicable
Modulation:	OFDM	Beam Forming Gain (Y):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Channel Frequency:	2402.0 MHz					
Band-Edge Frequency:	2400.0 MHz					
Test Frequency Range:	2350.0 - 2422.0 MHz					
Port(s)	Band-Edge Markers and Limit			Amended Limit		Margin
	M1 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)	(MHz)
a	-43.19	-9.79	2401.40	Not Applicable	Not Applicable	-1.400

Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<40 GHz ≤2.37 dB, > 40 GHz ≤4.6 dB

Note: click the link in the above results matrix to view the plot

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Equipment Configuration for Conducted High Band-Edge Emissions - Peak

Variant:	DH1	Duty Cycle (%):	100
Data Rate:	1 MBit/s	Antenna Gain (dBi):	Not Applicable
Modulation:	OFDM	Beam Forming Gain (Y):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Channel Frequency:	2480.0 MHz					
Band-Edge Frequency:	2483.5 MHz					
Test Frequency Range:	2452.0 - 2524.0 MHz					
Port(s)	Band-Edge Markers and Limit			Amended Limit		Margin
	M3 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)	(MHz)
a	-44.81	-9.68	2480.70	Not Applicable	Not Applicable	-2.800

Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<40 GHz ≤2.37 dB, > 40 GHz ≤4.6 dB

Note: click the link in the above results matrix to view the plot

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Equipment Configuration for Transmitter Conducted Spurious Emissions

Variant:	DH1	Duty Cycle (%):	100
Data Rate:	1 MBit/s	Antenna Gain (dBi):	Not Applicable
Modulation:	OFDM	Beam Forming Gain (Y):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Frequency Range	Transmitter Conducted Spurious Emissions (dBm)							
		Port a		Port b		Port c		Port d	
MHz	MHz	SE	Limit	SE	Limit	SE	Limit	SE	Limit
2402.0	30.0 - 26000.0	-45.206	-11.03	---	---	---	---	---	---
2441.0	30.0 - 26000.0	-44.376	-10.96	---	---	---	---	---	---
2480.0	30.0 - 26000.0	-45.043	-10.86	---	---	---	---	---	---

Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<40 GHz ≤2.37 dB, > 40 GHz ≤4.6 dB

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Equipment Configuration for Conducted Low Band-Edge Emissions - Peak

Variant:	DH5	Duty Cycle (%):	100
Data Rate:	3 MBit/s	Antenna Gain (dBi):	Not Applicable
Modulation:	OFDM	Beam Forming Gain (Y):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Channel Frequency:	2402.0 MHz					
Band-Edge Frequency:	2400.0 MHz					
Test Frequency Range:	2350.0 - 2422.0 MHz					
Port(s)	Band-Edge Markers and Limit			Amended Limit		Margin
	M1 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)	(MHz)
a	-40.02	-13.17	2401.20	Not Applicable	Not Applicable	-1.200

Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<40 GHz ≤2.37 dB, > 40 GHz ≤4.6 dB

Note: click the link in the above results matrix to view the plot

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Equipment Configuration for Conducted High Band-Edge Emissions - Peak

Variant:	DH5	Duty Cycle (%):	100
Data Rate:	3 MBit/s	Antenna Gain (dBi):	Not Applicable
Modulation:	OFDM	Beam Forming Gain (Y):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Channel Frequency:	2480.0 MHz					
Band-Edge Frequency:	2483.5 MHz					
Test Frequency Range:	2452.0 - 2524.0 MHz					
Port(s)	Band-Edge Markers and Limit			Amended Limit		Margin
	M3 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)	(MHz)
a	-41.48	-12.85	2480.90	Not Applicable	Not Applicable	-2.600

Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<40 GHz ≤2.37 dB, > 40 GHz ≤4.6 dB

Note: click the link in the above results matrix to view the plot

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Equipment Configuration for Transmitter Conducted Spurious Emissions

Variant:	DH5	Duty Cycle (%):	100
Data Rate:	3 MBit/s	Antenna Gain (dBi):	Not Applicable
Modulation:	OFDM	Beam Forming Gain (Y):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Frequency Range	Transmitter Conducted Spurious Emissions (dBm)							
		Port a		Port b		Port c		Port d	
MHz	MHz	SE	Limit	SE	Limit	SE	Limit	SE	Limit
2402.0	30.0 - 26000.0	-45.132	-14.49	---	---	---	---	---	---
2441.0	30.0 - 26000.0	-44.746	-14.58	---	---	---	---	---	---
2480.0	30.0 - 26000.0	-44.872	-15.20	---	---	---	---	---	---

Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<40 GHz ≤2.37 dB, > 40 GHz ≤4.6 dB

Note: click the link in the above results matrix to view the plot

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Specification

Limits Band-Edge

Lower Limit Band-edge	Upper Limit Band-edge	Limit below highest level of desired power
2,400 MHz	2,483.5 MHz	≥ 20 dB
5725 MHz	5850 MHz	

§15.247(d) and RSS-210 §A8.5 In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

§15.247(d)

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section §15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(a)).

Laboratory Measurement Uncertainty for Conducted Spurious Emissions

Measurement uncertainty	±2.37 dB
-------------------------	----------

Traceability

Method	Test Equipment Used
Measurements were made per work instruction WI-05 'Measurement of Spurious Emissions'	0088, 0158, 0287, 0252, 0313, 0314, 0070, 0116, 0117.

6.1.1.5. Maximum Permissible Exposure

FCC, Part 15 Subpart C §15.247(i)
Industry Canada RSS-Gen §5.6

Calculations for Maximum Permissible Exposure Levels

Power Density = P_d (mW/cm²) = $EIRP / (4\pi d^2)$

$EIRP = P * G$

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

Numeric Gain = $10^{(G \text{ (dBi)} / 10)}$

Because the EUT belongs to the General Population/Uncontrolled Exposure the limit of power density is 1.0 mW/cm²

Antenna	Freq. Band (GHz)	Antenna Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Safe Distance @ 1mW/cm ² Limit(cm)	Minimum Separation Distance (cm)
PCB	2.4	+1.2	1.32	16.69	46.67	2.22	20

Specification

Maximum Permissible Exposure Limits

§15.247(i) Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency levels in excess of the Commission's guidelines.

FCC §1.1310 Limit = 1mW / cm² from 1.310 Table 1

RSS-Gen §5.6 Category I and Category II equipment shall comply with the applicable requirements of RSS-102.

Laboratory Measurement Uncertainty for Power Measurements

Measurement uncertainty	±1.33 dB
-------------------------	----------

6.1.2. Radiated Emission Testing

6.1.2.1. Spurious Emissions (above 1 GHz)

Transmitter Radiated Spurious Emissions (above 1 GHz); Peak Field Strength Measurements; and Radiated Band Edge Measurements – Restricted Bands

FCC, Part 15 Subpart C §15.247(d) 15.205; 15.209

Industry Canada RSS-210 §A8.5, §2.2, §2.6

Industry Canada RSS-Gen §4.7

Test Procedure

The worst case highest spectral density radiated emissions above 1 GHz are measured in the anechoic chamber at a 3-meter distance on every azimuth in both horizontal and vertical polarities. The emissions are recorded and maximized as a function of azimuth by rotation through 360° with a spectrum analyzer in peak hold mode. Depending on the frequency band spanned a notch filter and waveguide filter was used to remove the fundamental frequency. The highest emissions relative to the limit are listed for each frequency spanned.

All measurements on any frequency or frequencies over 1 MHz are based on the use of measurement instrumentation employing an average detector function. All measurements above 1 GHz were performed using a minimum resolution bandwidth of 1 MHz.

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Loss, and subtracting Amplifier Gain from the measured reading. All factors are included in the reported data.

$$FS = R + AF + CORR - FO$$

where: FS = Field Strength

R = Measured Spectrum analyzer Input Amplitude

AF = Antenna Factor

CORR = Correction Factor = CL – AG + NFL

CL = Cable Loss

AG = Amplifier Gain

FO = Distance Falloff Factor

NFL = Notch Filter Loss or Waveguide Loss

For example:

Given receiver input reading of 51.5 dB μ V; Antenna Factor of 8.5 dB; Cable Loss of 1.3 dB; Falloff Factor of 0 dB, an Amplifier Gain of 26 dB and Notch Filter Loss of 1 dB. The Field Strength of the measured emission is:

$$FS = 51.5 + 8.5 + 1.3 - 26.0 + 1 = 36.3 \text{ dB}\mu\text{V/m}$$

Conversion between dB μ V/m (or dB μ V) and μ V/m (or μ V) are done as:

$$\text{Level (dB}\mu\text{V/m)} = 20 * \text{Log (level (\mu V/m))}$$

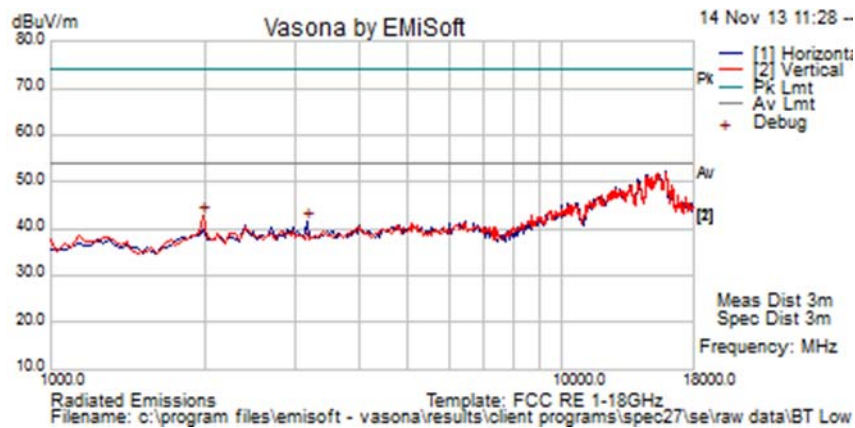
$$40 \text{ dB}\mu\text{V/m} = 100 \mu\text{V/m}$$

$$48 \text{ dB}\mu\text{V/m} = 250 \mu\text{V/m}$$



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Test Freq.	2402 MHz	Engineer	SB
Variant	DH1	Temp (°C)	22
Freq. Range	1000 MHz - 18000 MHz	Rel. Hum.(%)	44
Power Setting	Max	Press. (mBars)	1005
Antenna	Integral	Duty Cycle (%)	100
Test Notes 1			
Test Notes 2			



Formally measured emission peaks

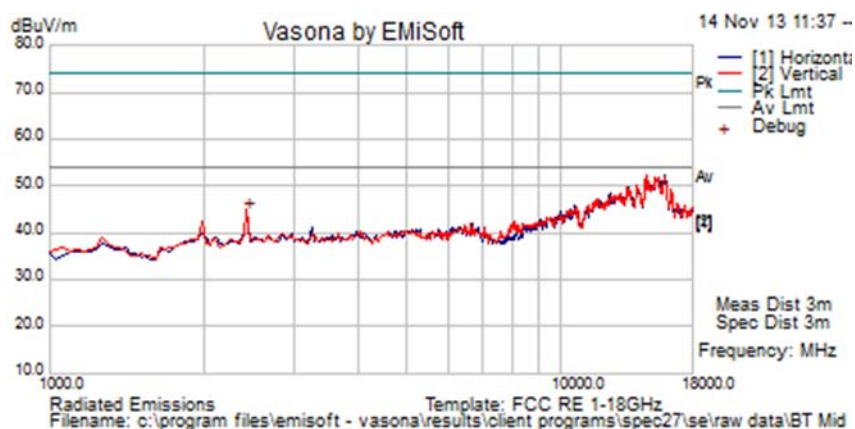
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
1987.785	52.0	2.7	-11.9	42.8	Peak [Scan]	V						NRB
3174.275	49.6	3.5	-11.8	41.3	Peak [Scan]	V						NRB
Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission NRB = Non-Restricted Band. Limit = 68.23 dBuV/m; RB = Restricted Band. Limits per 15.205												

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Test Freq.	2441 MHz	Engineer	JMH
Variant	DH1	Temp (°C)	25
Freq. Range	1000 MHz - 18000 MHz	Rel. Hum.(%)	32
Power Setting	Max	Press. (mBars)	1002
Antenna	Integral	Duty Cycle (%)	100
Test Notes 1			
Test Notes 2			



Formally measured emission peaks

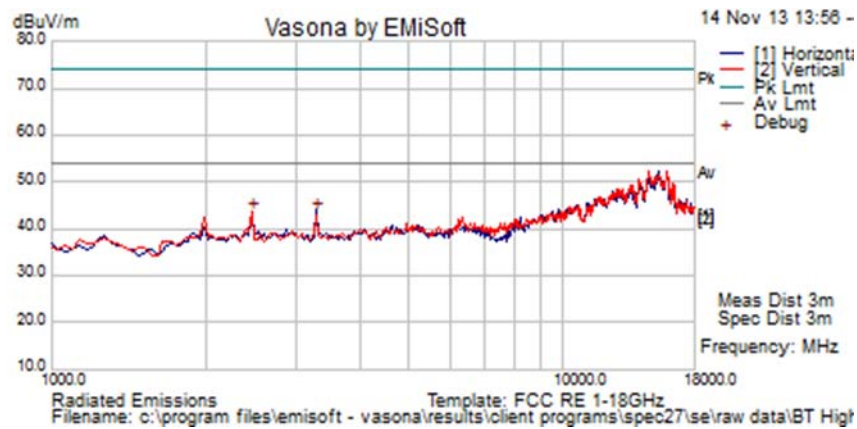
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
2431.560	53.1	3.0	-11.6	44.5	Peak [Scan]	V						FUND
Legend:	TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission											
	NRB = Non-Restricted Band. Limit = 68.23 dBuV/m; RB = Restricted Band. Limits per 15.205											

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Test Freq.	2480 MHz	Engineer	JMH
Variant	DH1	Temp (°C)	22
Freq. Range	1000 MHz - 18000 MHz	Rel. Hum.(%)	23
Power Setting	Max	Press. (mBars)	1002
Antenna	Integral	Duty Cycle (%)	100
Test Notes 1			
Test Notes 2			



Formally measured emission peaks

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
3286.727	51.8	3.5	-11.8	43.5	Peak [Scan]	V						NRB
2464.507	52.0	3.0	-11.5	43.4	Peak [Scan]	V						FUND
Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission												
NRB = Non-Restricted Band. Limit = 68.23 dBuV/m; RB = Restricted Band. Limits per 15.205												

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Specification Limits

FCC §15.247(d) and RSS-210 §A8.5 In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

FCC §15.247(d)

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section §15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(a)).

IC RSS-210 §A8.5 If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under section A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Tables 2 and 3 is not required. In addition, radiated emissions which fall in the restricted bands of Table 1 must also comply with the radiated emission limits specified in Tables 2 and 3.

FCC §15.205 (a) Except as shown in paragraph (d) of 15.205 (a), only spurious emissions are permitted in any of the frequency bands listed.

FCC §15.205 (a) Except as shown in paragraphs (d) and (e) of this section, the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

FCC §15.209 (a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table.



§15.209 (a) Limit Matrix

Frequency(MHz)	Field Strength (μ V/m)	Field Strength (dB μ V/m)	Measurement Distance (meters)
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Laboratory Measurement Uncertainty for Radiated Emissions

Measurement uncertainty	+5.6 / -4.5 dB
-------------------------	----------------

Traceability

Method	Test Equipment Used
Measurements were made per work instruction WI-03 'Measurement of Radiated Emissions'	0088, 0158, 0134, 0304, 0311, 0315, 0310, 0312



6.1.2.2. Restricted Band-Edge

Peak Limit 74.0 dBμV, Peak Limit 54.0 dBμV

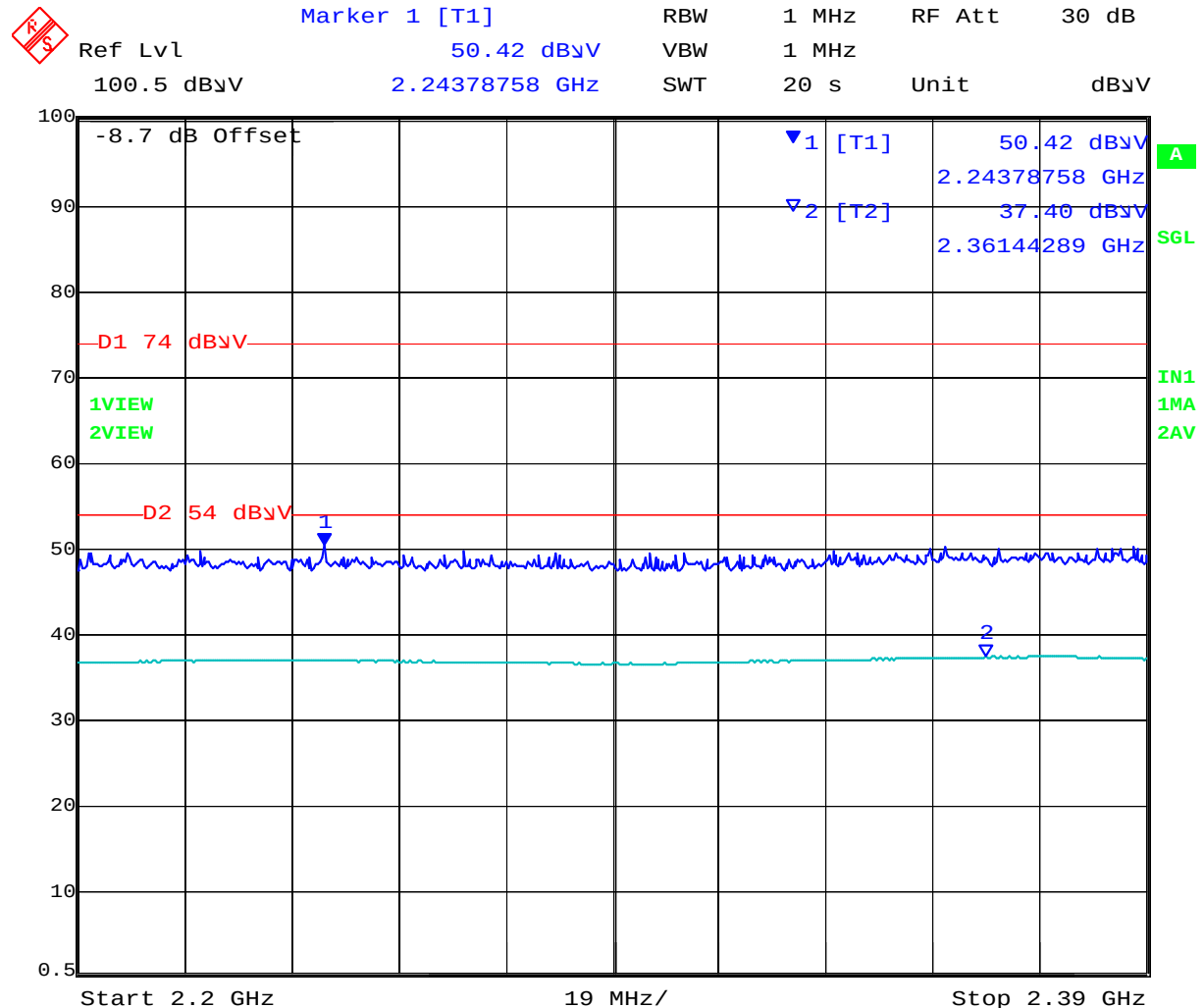
Integral Antenna

Operational Mode	Band-Edge 2390 MHz (2402 MHz)			Band-Edge 2483.5 MHz (2480 MHz)		
	dBμV		Power Setting	dBμV		Power Setting
	Peak	Average		Peak	Average	
DH3	50.42	37.40	Max	51.45	38.20	Max



Radiated Restricted Band-Edge

2390 MHz: 802.15 2402 MHz



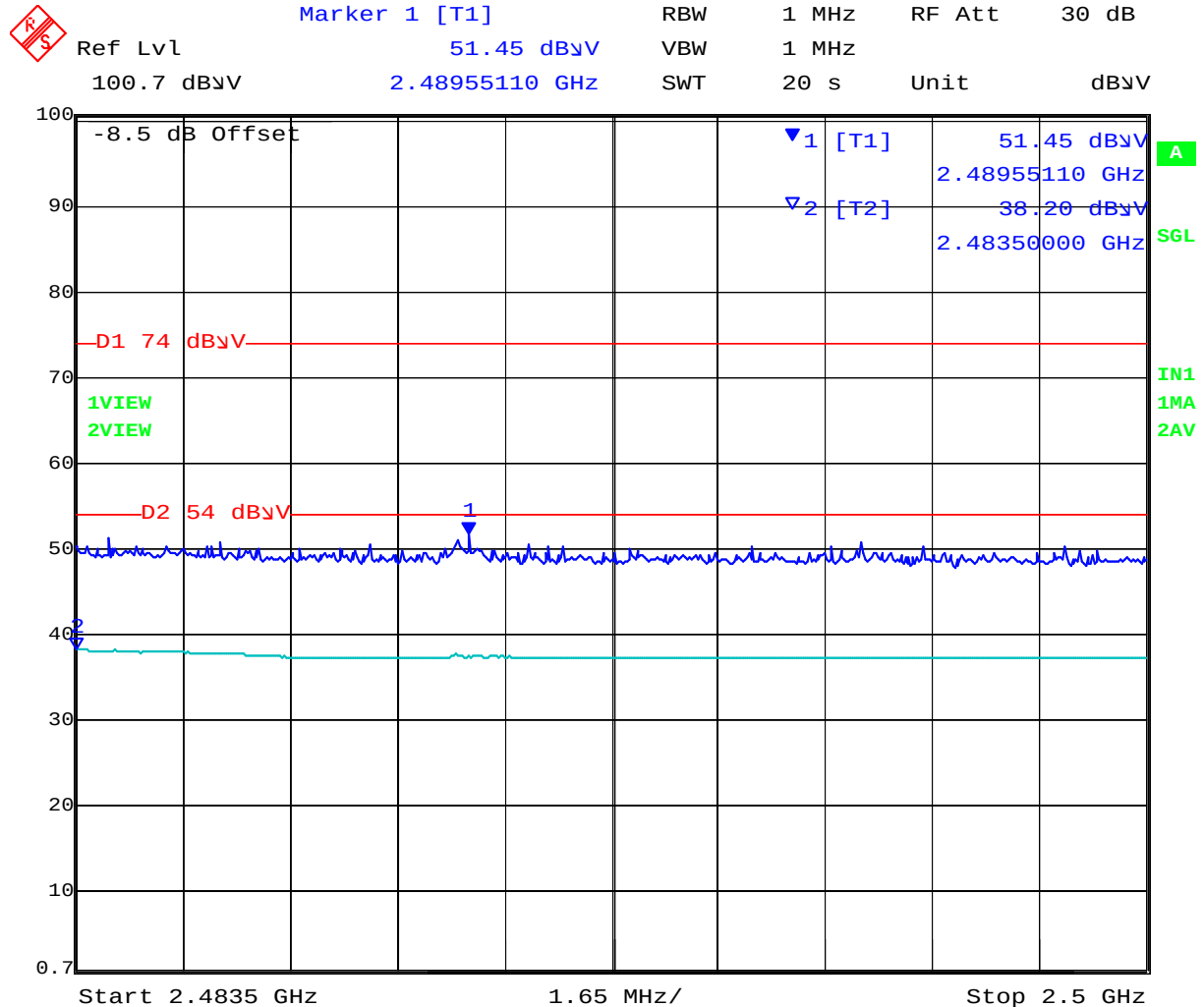
Date: 14.NOV.2013 17:44:39

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Radiated Restricted Band-Edge

2483.5 MHz: 802.15 2480 MHz



Date: 14.NOV.2013 17:48:36

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6.1.2.3. Digital Emissions (0.03-1 GHz)

FCC, Part 15 Subpart C §15.205/ §15.209
Industry Canada RSS-Gen §7.2.5

Test Procedure

Testing 30M-1 GHz was performed in a 3-meter anechoic chamber using a CISPR compliant receiver. Preliminary radiated emissions were measured on every azimuth and with the receiving antenna in both horizontal and vertical polarizations. To further maximize emissions the receive antenna was varied between 1 and 4 meters. The emissions are recorded with receiver in peak hold mode. Emissions closest to the limits are measured in the quasi-peak mode with the tuned receiver using a bandwidth of 120 kHz. Only the highest emissions relative to the limit are listed. The anechoic chamber test set-up is identified in Section 6 Test Set-Up Photographs.

The EUT had two methods of powering on ac/dc converter and Power over Ethernet (POE). Both modes were tested for emissions below 1GHz.

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Loss, and subtracting Amplifier Gain from the measured reading. In this test facility, the Antenna Factor, Cable Loss, and Amplifier Gains are loaded into the Rohde & Schwarz Receiver and the corrected field strength can be read directly on the receiver.

$$FS = R + AF + CORR$$

where:

FS = Field Strength
R = Measured Receiver Input Amplitude
AF = Antenna Factor
CORR = Correction Factor = CL – AG + NFL
CL = Cable Loss
AG = Amplifier Gain

For example:

Given a Receiver input reading of 51.5dB μ V; Antenna Factor of 8.5dB; Cable Loss of 1.3dB; Falloff Factor of 0dB, an Amplifier Gain of 26dB and Notch Filter Loss of 1dB. The Field Strength of the measured emission is:

$$FS = 51.5 + 8.5 + 1.3 - 26.0 + 1 = 36.3\text{dB}\mu\text{V/m}$$

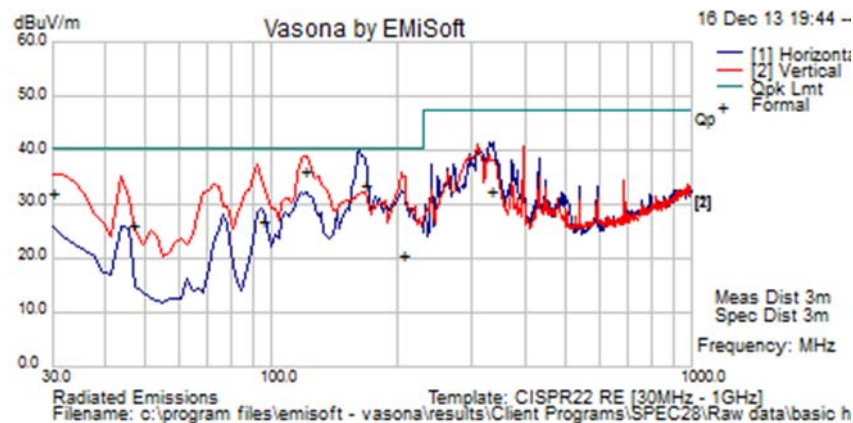
Conversion between dB μ V/m (or dB μ V) and μ V/m (or μ V) are done as:

$$\text{Level (dB}\mu\text{V/m)} = 20 * \text{Log (level (}\mu\text{V/m))}$$

$$40 \text{ dB}\mu\text{V/m} = 100\mu\text{V/m}$$

$$48 \text{ dB}\mu\text{V/m} = 250\mu\text{V/m}$$

Test Freq.	Not Applicable	Engineer	JMH
Variant	Digital Emissions	Temp (°C)	18
Freq. Range	30 MHz - 1000 MHz	Rel. Hum.(%)	37
Power Setting	Maximum	Press. (mBars)	997
Antenna	Not Applicable		
Test Notes 1	Basic Handset		
Test Notes 2	GCI 1 A Power Supply		



Formally measured emission peaks

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
30.165	38.1	3.5	-9.6	32.0	Quasi Max	V	99	294	40.5	-8.5	Pass	
46.784	43.8	3.7	-21.4	26.1	Quasi Max	V	104	202	40.5	-14.4	Pass	
95.281	45.0	4.0	-22.3	26.7	Quasi Max	V	142	33	40.5	-13.8	Pass	
119.128	49.2	4.2	-17.2	36.3	Quasi Max	V	108	348	40.5	-4.2	Pass	
166.022	47.8	4.5	-18.6	33.7	Quasi Max	H	166	74	40.5	-6.8	Pass	
203.657	34.6	4.7	-18.9	20.4	Quasi Max	V	99	121	40.5	-20.1	Pass	
330.190	43.8	5.2	-16.4	32.6	Quasi Max	H	110	144	47.5	-14.9	Pass	

Legend: DIG = Digital Device Emission; TX = Transmitter Emission; FUND = Fundamental Frequency
 NRB = Non-Restricted Band, Limit is 20 dB below Fundamental; RB = Restricted Band

Specification

Limits

§15.205 (a) Except as shown in paragraph (d) of 15.205 (a), only spurious emissions are permitted in any of the frequency bands listed.

§15.205 (a) Except as shown in paragraphs (d) and (e) of this section, the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

§15.209 (a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table.

§15.209 (a) and Industry Canada RSS-Gen §7.2.5 Limit Matrix

Frequency(MHz)	Field Strength ($\mu\text{V/m}$)	Field Strength (dB $\mu\text{V/m}$)	Measurement Distance (meters)
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Laboratory Measurement Uncertainty for Radiated Emissions

Measurement uncertainty	+5.6/ -4.5 dB
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Traceability

Method	Test Equipment Used
Measurements were made per work instruction WI-03 'Measurement of Radiated Emissions'	0088, 0158, 0134, 0304, 0311, 0315, 0310, 0312

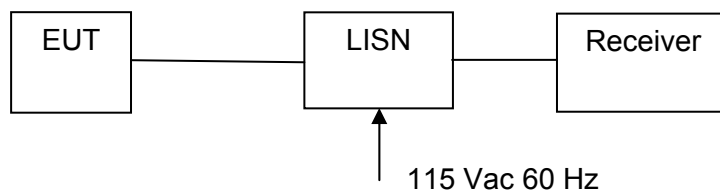
6.1.3. AC Wireline Conducted Emissions (150 kHz – 30 MHz)

FCC, Part 15 Subpart C §15.207
Industry Canada RSS-Gen §7.2.4

Test Procedure

The EUT is configured in accordance with ANSI C63.4. The conducted emissions are measured in a shielded room with a spectrum analyzer in peak hold in the first instance. Emissions closest to the limit are measured in the quasi-peak mode (QP) with the tuned receiver using a bandwidth of 9 kHz. The emissions are maximized further by cable manipulation. The highest emissions relative to the limit are listed.

Test Measurement Set up



Measurement set up for AC Wireline Conducted Emissions Test

Measurement Results for AC Wireline Conducted Emissions (150 kHz – 30 MHz)

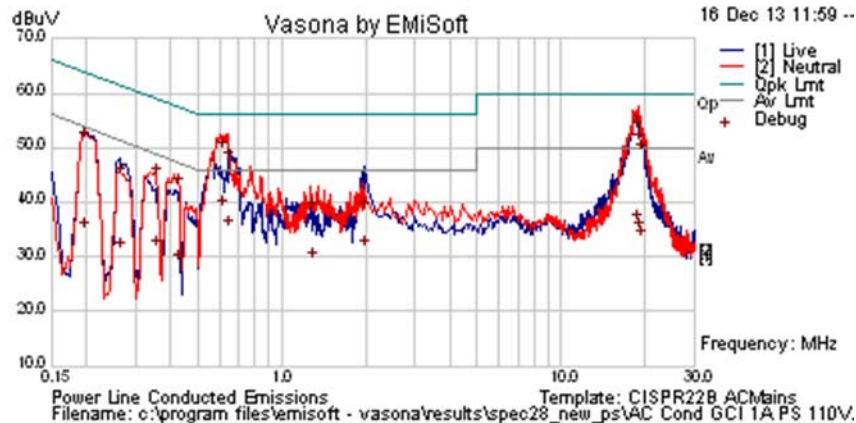
Ambient conditions.

Temperature: 17 to 23 °C Relative humidity: 31 to 57 % Pressure: 999 to 1012 mbar



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Test Freq.	Not Applicable	Engineer	JMH
Variant	AC Line Emissions	Temp (°C)	11
Freq. Range	0.150 MHz - 30 MHz	Rel. Hum.(%)	27
Power Setting	Maximum	Press. (mBars)	1002
Antenna	Not Applicable		
Test Notes 1	110V 60 Hz PS GCI 1 A		



Formally measured emission peaks

Frequency MHz	Raw dBuV	Cable Loss	Factors dB	Level dBuV	Measurement Type	Line	Limit dBuV	Margin dB	Pass /Fail	Comments
0.195	41.1	9.9	0.1	51.1	Quasi Peak	Live	63.82	-12.8	Pass	
0.195	24.7	9.9	0.1	34.6	Average	Live	53.82	-19.2	Pass	
0.261	21.0	9.9	0.1	30.9	Average	Live	51.4	-20.5	Pass	
0.261	34.6	9.9	0.1	44.6	Quasi Peak	Live	61.4	-16.8	Pass	
0.352	21.3	9.9	0.1	31.3	Average	Neutral	48.92	-17.6	Pass	
0.352	34.6	9.9	0.1	44.5	Quasi Peak	Neutral	58.92	-14.4	Pass	
0.423	32.9	9.9	0.1	42.8	Quasi Peak	Neutral	57.39	-14.6	Pass	
0.423	18.8	9.9	0.1	28.7	Average	Neutral	47.39	-18.6	Pass	
0.614	39.3	10.0	0.1	49.4	Quasi Peak	Neutral	56	-6.6	Pass	
0.614	28.7	10.0	0.1	38.7	Average	Neutral	46	-7.3	Pass	
0.638	37.6	10.0	0.1	47.7	Quasi Peak	Neutral	56	-8.3	Pass	
0.638	25.1	10.0	0.1	35.1	Average	Neutral	46	-10.9	Pass	
1.273	28.3	10.0	0.1	38.4	Quasi Peak	Neutral	56	-17.7	Pass	
1.273	19.1	10.0	0.1	29.2	Average	Neutral	46	-16.9	Pass	
1.953	21.2	10.0	0.1	31.4	Average	Live	46	-14.6	Pass	
1.953	28.2	10.0	0.1	38.4	Quasi Peak	Live	56	-17.7	Pass	
18.699	24.9	10.5	0.7	36.1	Average	Neutral	50	-13.9	Pass	
18.699	41.9	10.5	0.7	53.1	Quasi Peak	Neutral	60	-6.9	Pass	
18.980	39.6	10.5	0.7	50.8	Quasi Peak	Neutral	60	-9.2	Pass	
18.980	23.6	10.5	0.7	34.8	Average	Neutral	50	-15.2	Pass	
19.094	37.9	10.5	0.7	49.2	Quasi Peak	Neutral	60	-10.8	Pass	
19.094	21.9	10.5	0.7	33.1	Average	Neutral	50	-16.9	Pass	

Legend: DIG = Digital Device Emission; TX = Transmitter Emission; FUND = Fundamental Frequency
NRB = Non-Restricted Band, Limit is 20 dB below Fundamental; RB = Restricted Band

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Specification

Limit

§15.207 (a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 $\mu\Omega$ line impedance stabilization network (LISN), see §15.207 (a) matrix below. Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal.

RSS-Gen §7.2.4

Except when the requirements applicable to a given device state otherwise, for any radio apparatus equipped to operate from the public utility AC power supply, either directly or indirectly (such as with a battery charger), the radio frequency voltage of emissions conducted back onto the AC power lines in the frequency range of 0.15 MHz to 30 MHz shall not exceed the limits shown in the table below. The more stringent limit applies at the frequency range boundaries. The conducted emissions shall be measured with a 50 ohm/50 microhenry line impedance stabilization network (LISN).

§15.207 (a) and **RSS-Gen §7.2.4** Limit Matrix

The lower limit applies at the boundary between frequency ranges

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency

Laboratory Measurement Uncertainty for Conducted Emissions

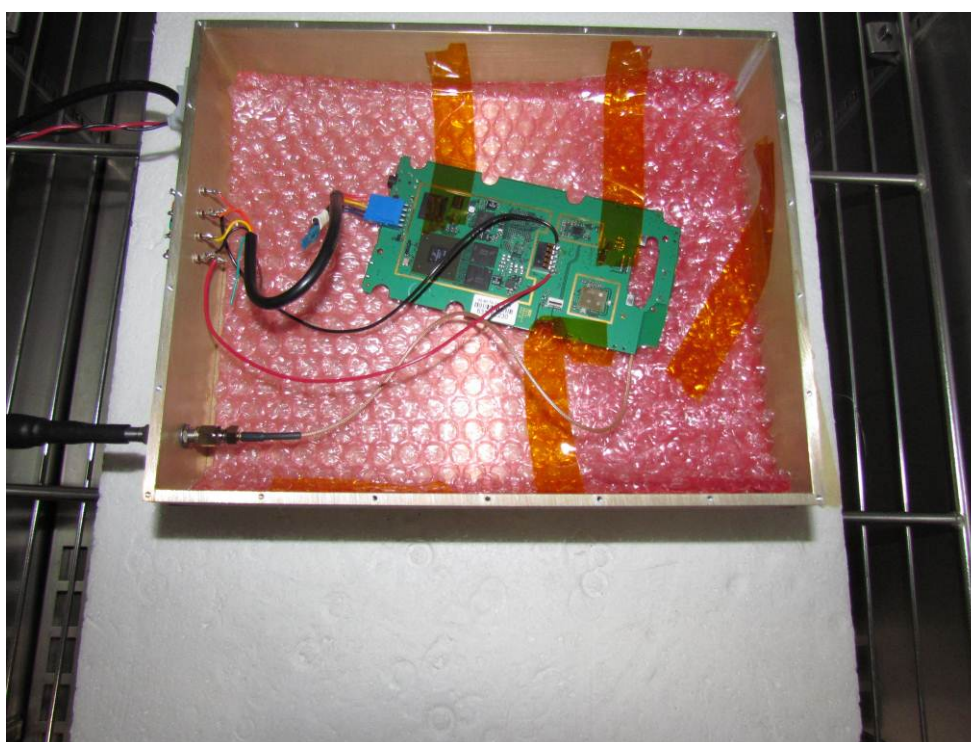
Measurement uncertainty	± 2.64 dB
-------------------------	---------------

Traceability

Method	Test Equipment Used
Measurements were made per work instruction WI-EMC-01 'Measurement of Conducted Emissions'	0158, 0184, 0287, 0190, 0293, 0307

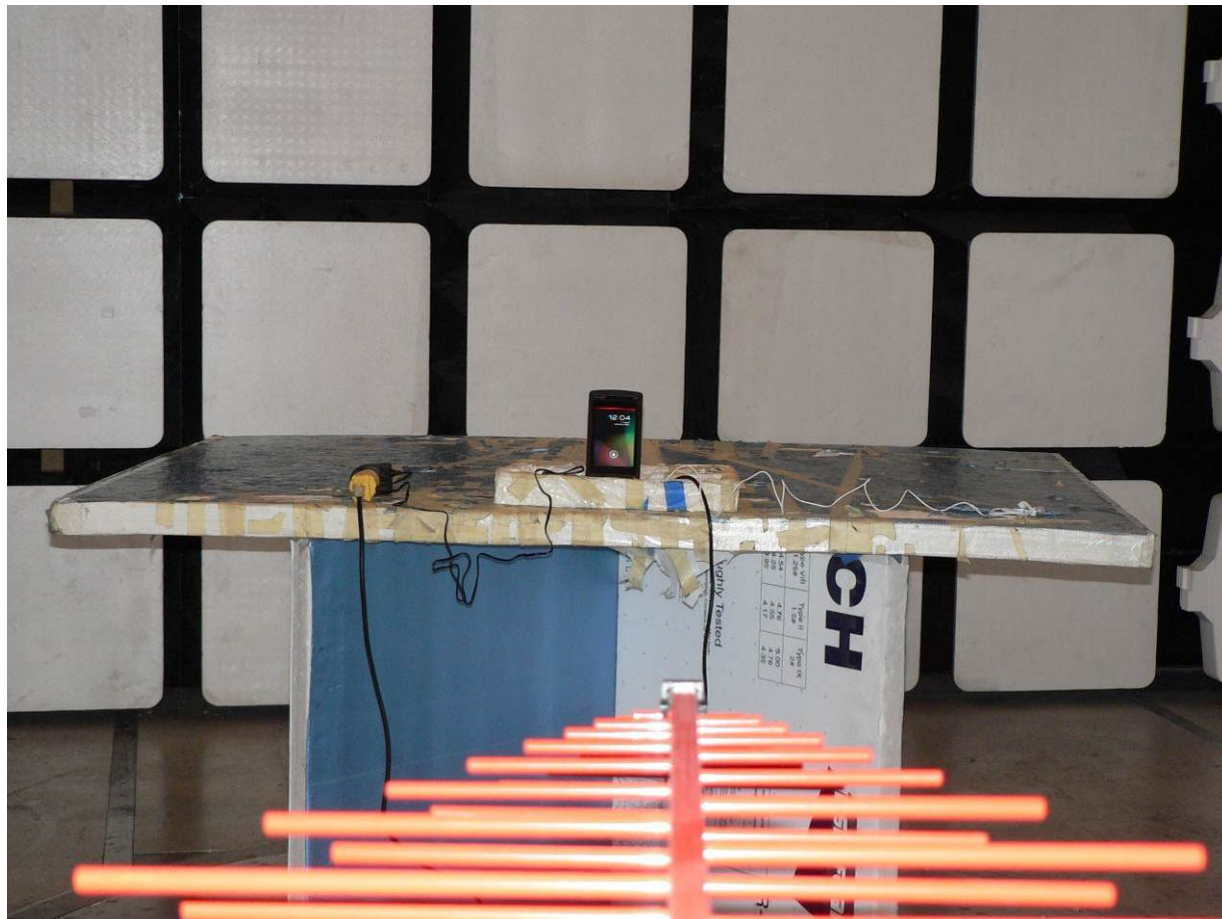
7. PHOTOGRAPHS

7.1. Test Setup – RF Conducted



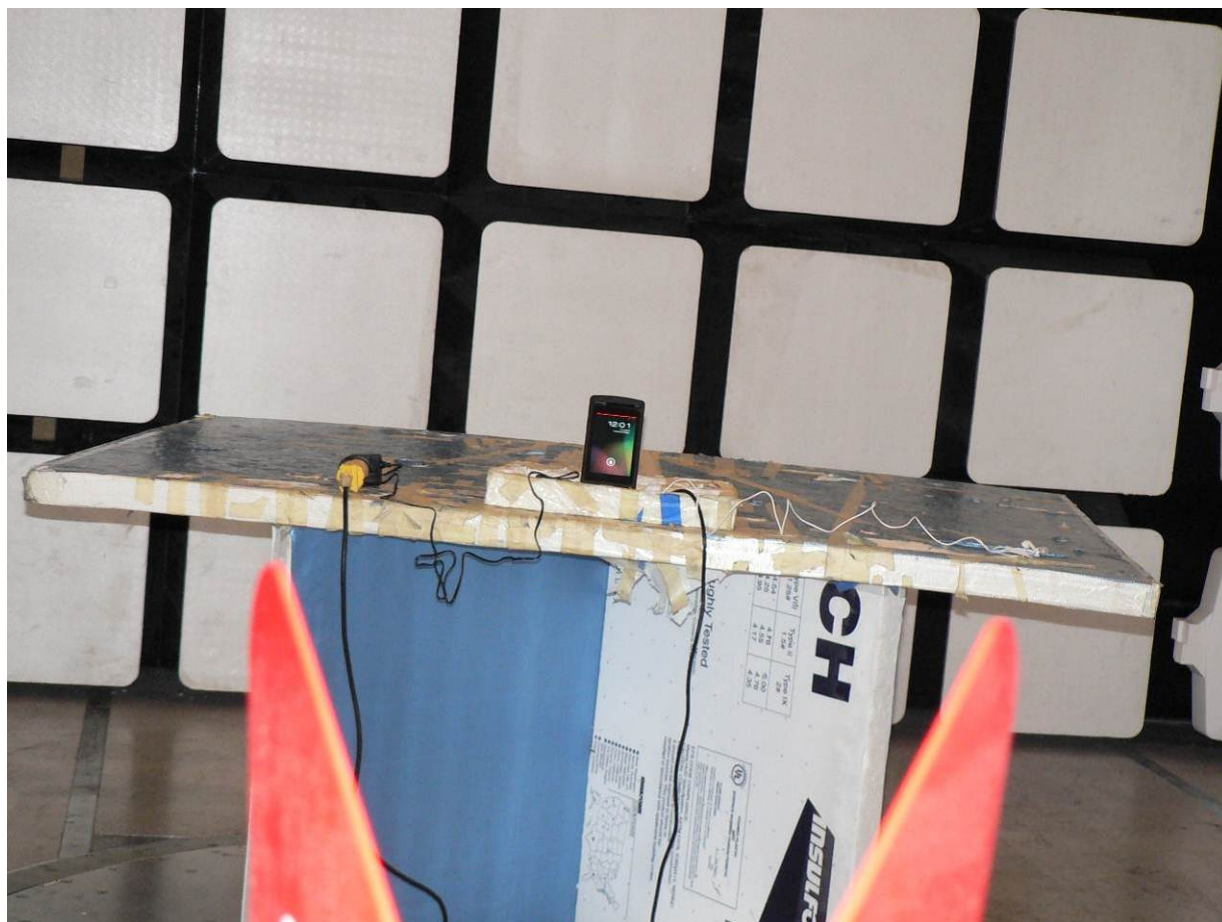
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7.2. Test Setup - Digital Emissions 0.03 - 1 GHz



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7.3. Test Setup - Spurious Emissions > 1 GHz





8. TEST EQUIPMENT

Asset #	Instrument	Manufacturer	Part #	Serial #	Calibration Due Date
0117	Power Sensor	Hewlett Packard	8487D	3318A00371	18 th Oct 14
0223	Power Meter	Hewlett Packard	EPM-442A	US37480256	18 th Oct 14
0376	Power Sensor	Agilent	U2000A	MY51440005	28 th Oct 14
0390	Power Sensor	Agilent	U2002A	MY50000103	17 th Oct 14
0158	Barometer /Thermometer	Control Co.	4196	E2846	8 th Jan 14
0193	EMI Receiver	Rhode & Schwartz	ESI 7	838496/007	2 nd Dec 13
0287	EMI Receiver	Rhode & Schwartz	ESIB40	100201	31 st Jul 14
0378	EMI Receiver	Rhode & Schwartz	ESIB40	100107/040	17 th Jul 14
0338	30 - 3000 MHz Antenna	Sunol	JB3	A052907	14 th Aug 14
0399	1-18 GHz Horn Antenna	EMCO	3117	00154575	10 th Oct 14
0252	SMA Cable	Megaphase	Sucoflex 104	None	N/A
0310	2m SMA Cable	Micro-Coax	UFA210A-0-0787-3G03G0	209089-001	N/A
0312	3m SMA Cable	Micro-Coax	UFA210A-1-1181-3G0300	209092-001	N/A
0314	30dB N-Type Attenuator	ARRA	N9444-30	1623	N/A
0359	DFS Test System	Aeroflex	PXI-1042	300001/004	21 st Oct 14
0299	DFS Test Software	Aeroflex	PXI Module	Version 7.1.0	N/A
0502	EMC Test Software	EMISoft	Vasona	5.0051	N/A
0503	RF Conducted Test Software	National Instruments	Labview	Version 8.2	N/A
0398	RF Conducted Test Software	MiCOM Labs ATS	--	Version 1.8	N/A
0380	RF Switch	MiCOM Labs	MIC001	MIC001	20 th Dec 13

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APPENDIX

A. SUPPORTING INFORMATION

A.1. CONDUCTED TEST PLOTS

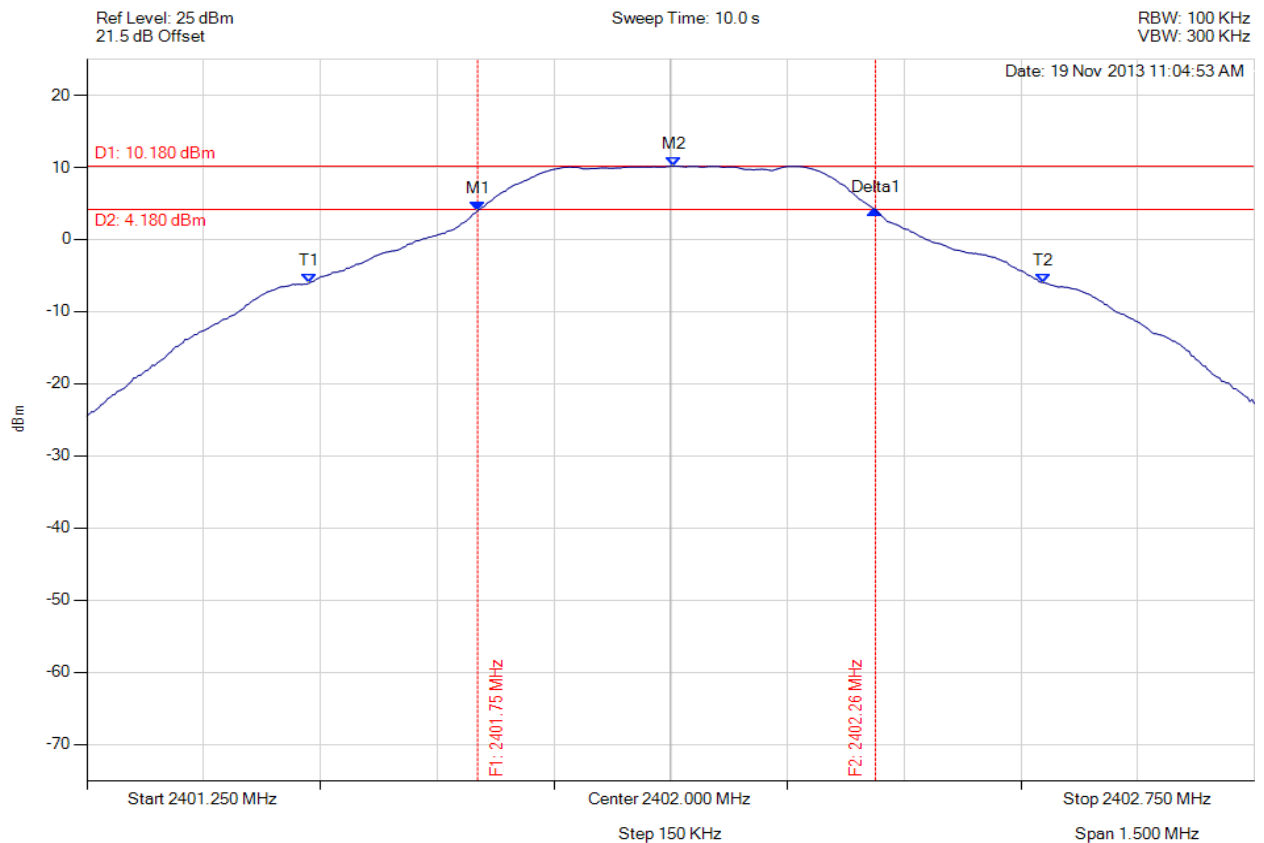
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A.1.1. 6 dB & 99% Bandwidth



6 dB & 99% BANDWIDTH

Variant: DH1, Channel: 2402.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



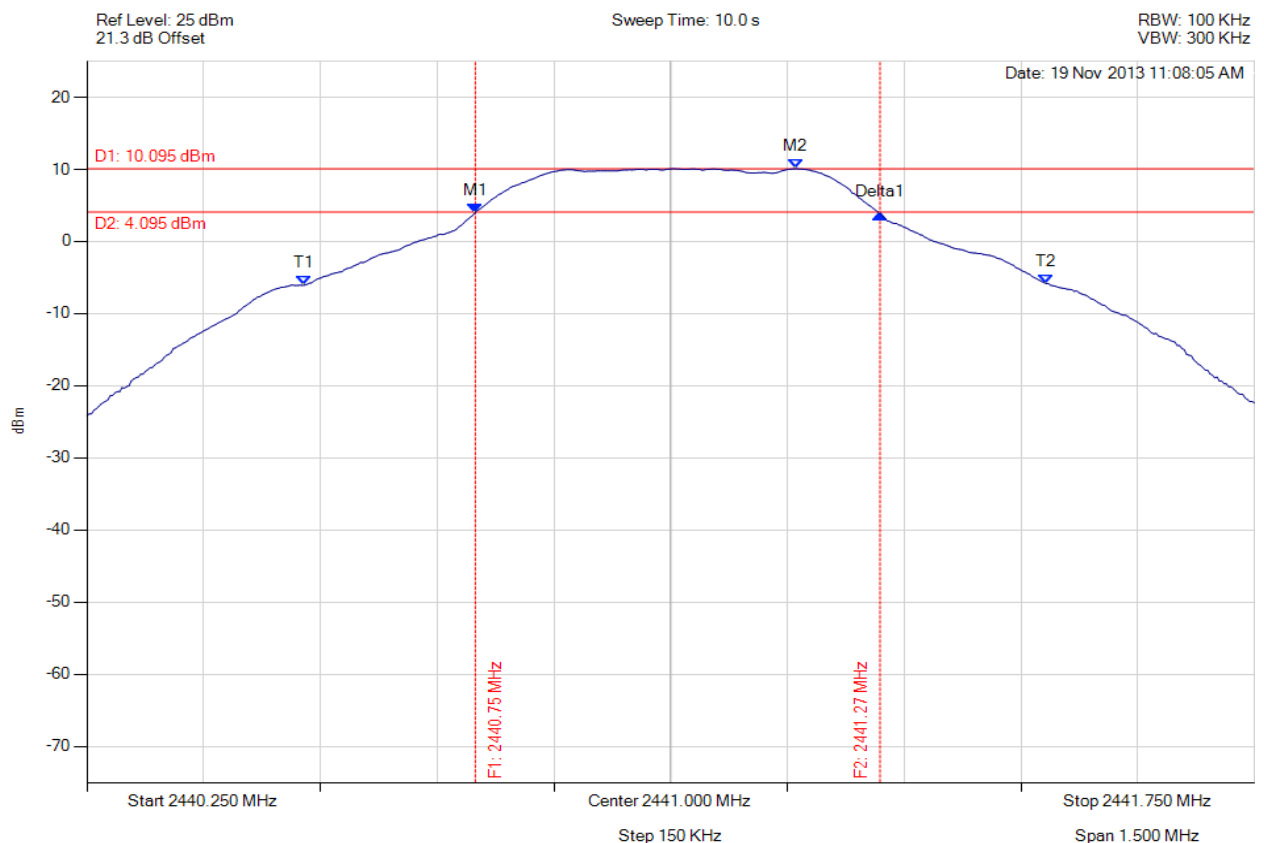
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2401.752 MHz : 4.024 dBm M2 : 2402.005 MHz : 10.180 dBm Delta1 : 511 KHz : 0.075 dB T1 : 2401.536 MHz : -6.037 dBm T2 : 2402.479 MHz : -5.994 dBm OBW : 944 KHz	Measured 6 dB Bandwidth: 0.511 MHz Limit: ≥ 500.0 kHz Margin: -0.01 MHz

[Back to the Matrix](#)

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6 dB & 99% BANDWIDTH

Variant: DH1, Channel: 2441.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2440.749 MHz : 4.040 dBm M2 : 2441.161 MHz : 10.095 dBm Delta1 : 520 KHz : -0.187 dB T1 : 2440.530 MHz : -6.061 dBm T2 : 2441.482 MHz : -5.842 dBm OBW : 953 KHz	Measured 6 dB Bandwidth: 0.520 MHz Limit: ≥500.0 kHz Margin: -0.02 MHz

[Back to the Matrix](#)

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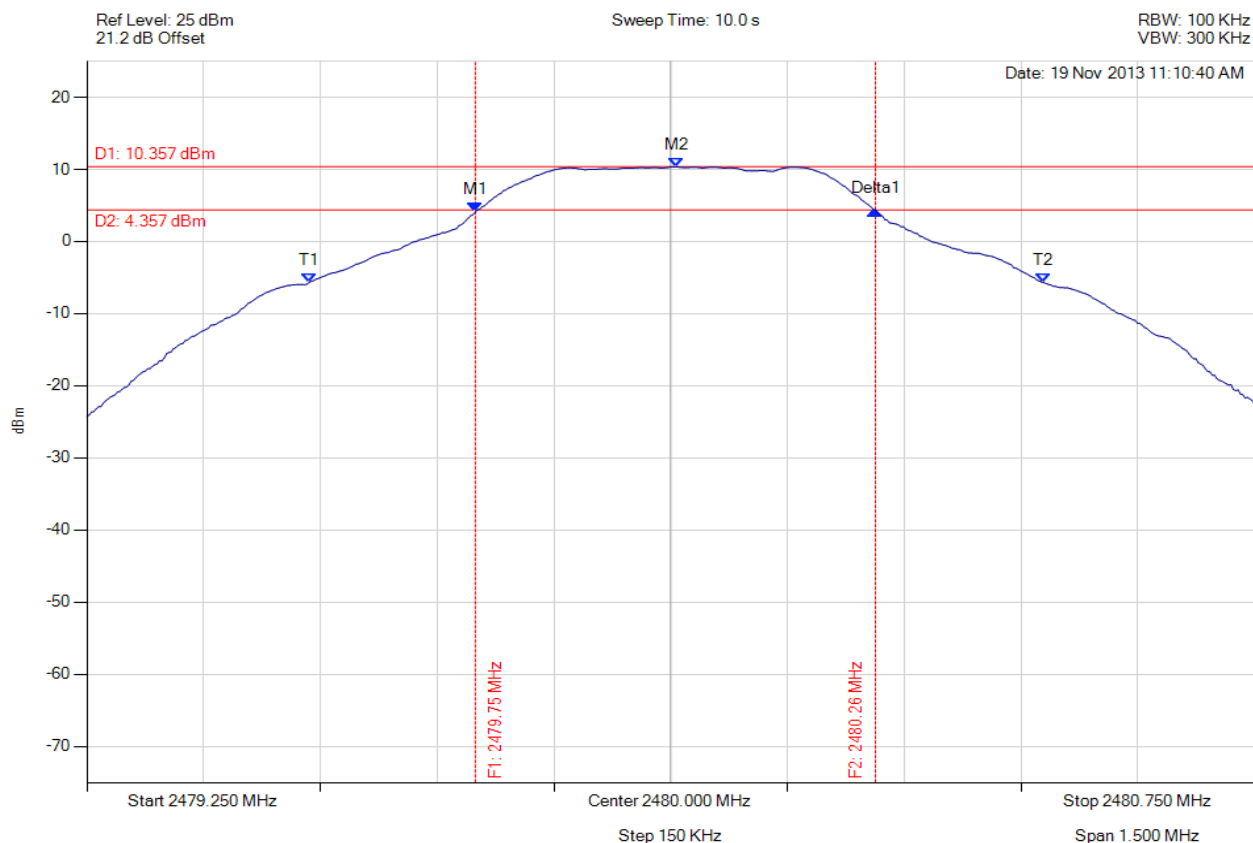


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6 dB & 99% BANDWIDTH

Variant: DH1, Channel: 2480.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



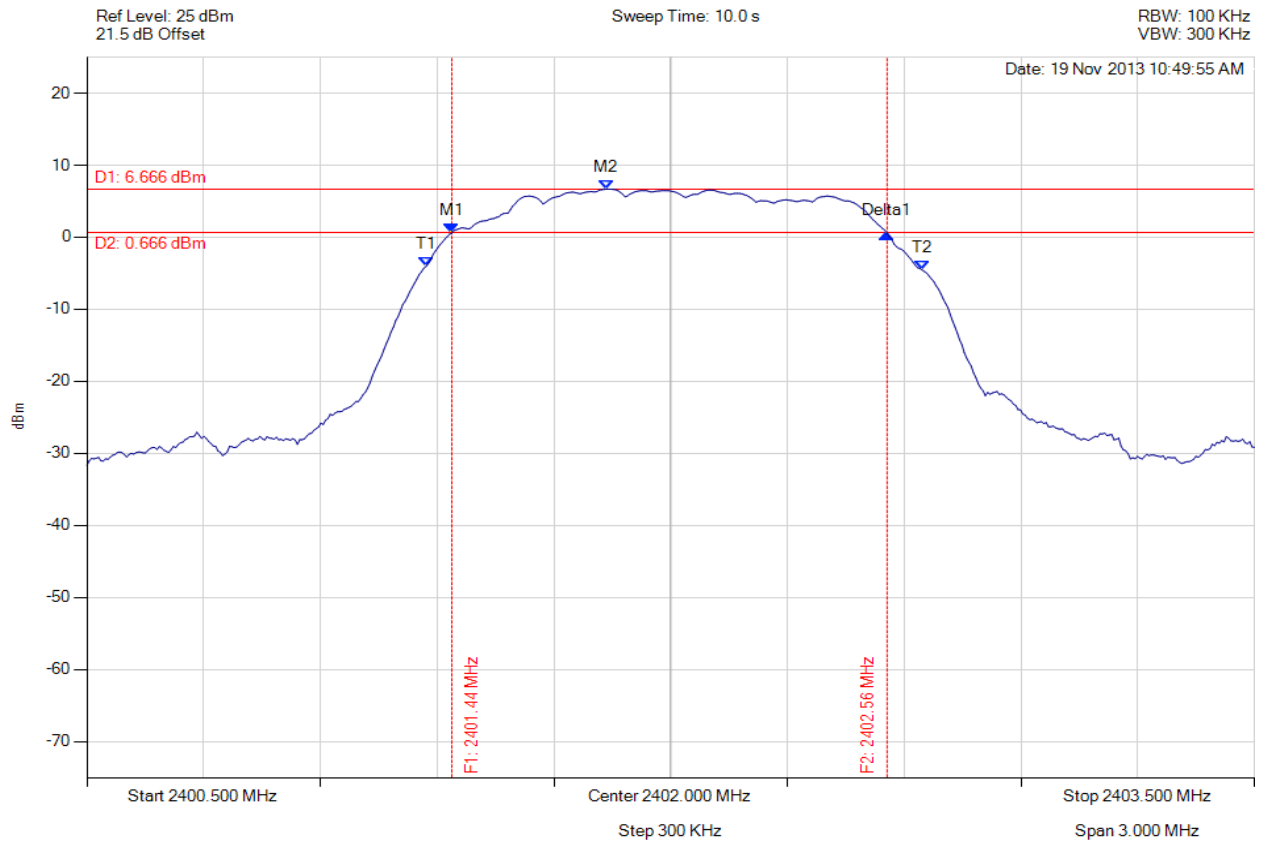
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2479.749 MHz : 4.067 dBm M2 : 2480.008 MHz : 10.357 dBm Delta1 : 514 KHz : 0.205 dB T1 : 2479.536 MHz : -5.691 dBm T2 : 2480.479 MHz : -5.703 dBm OBW : 944 KHz	Measured 6 dB Bandwidth: 0.514 MHz Limit: ≥ 500.0 kHz Margin: -0.01 MHz

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6 dB & 99% BANDWIDTH

Variant: DH5, Channel: 2402.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



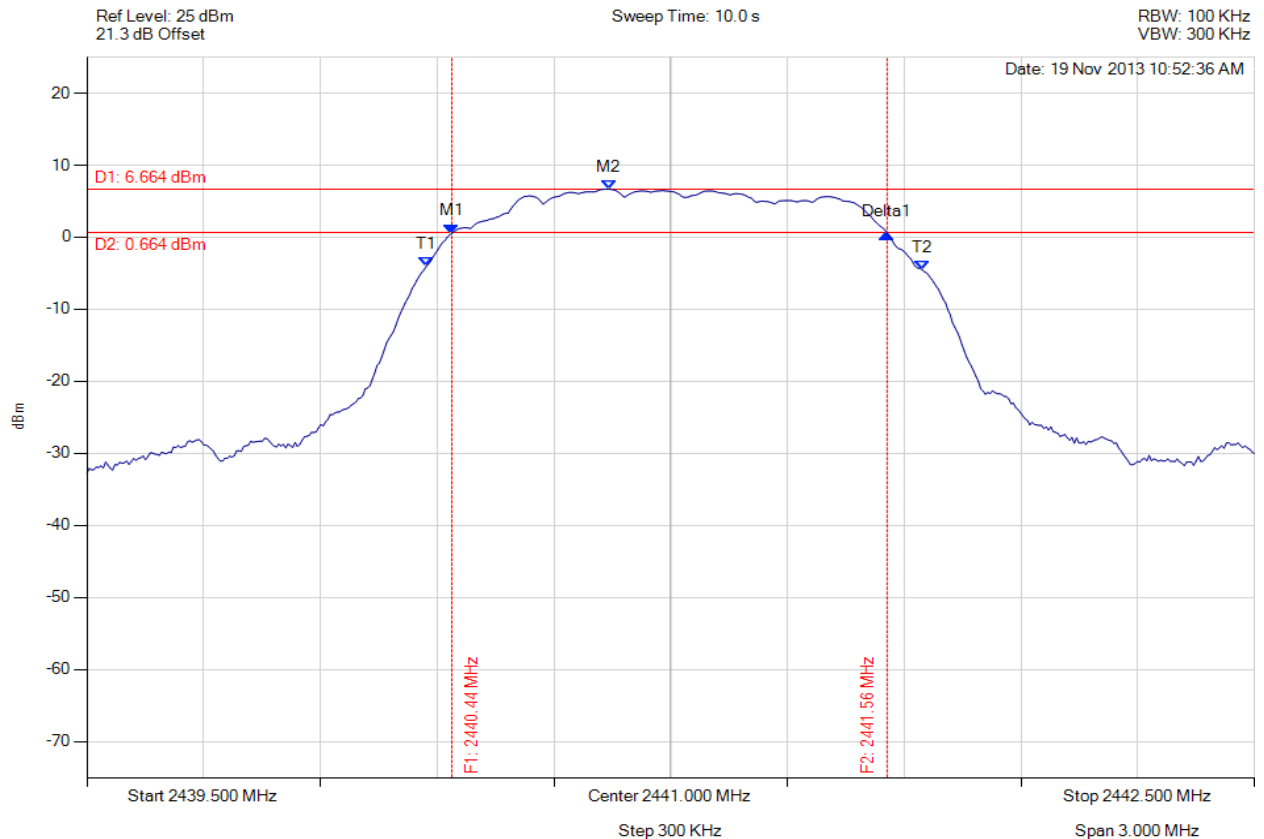
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2401.438 MHz : 0.585 dBm M2 : 2401.835 MHz : 6.666 dBm Delta1 : 1.118 MHz : -0.033 dB T1 : 2401.372 MHz : -4.042 dBm T2 : 2402.646 MHz : -4.558 dBm OBW : 1.275 MHz	Measured 6 dB Bandwidth: 1.118 MHz Limit: ≥500.0 kHz Margin: -0.62 MHz

[Back to the Matrix](#)

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6 dB & 99% BANDWIDTH

Variant: DH5, Channel: 2441.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



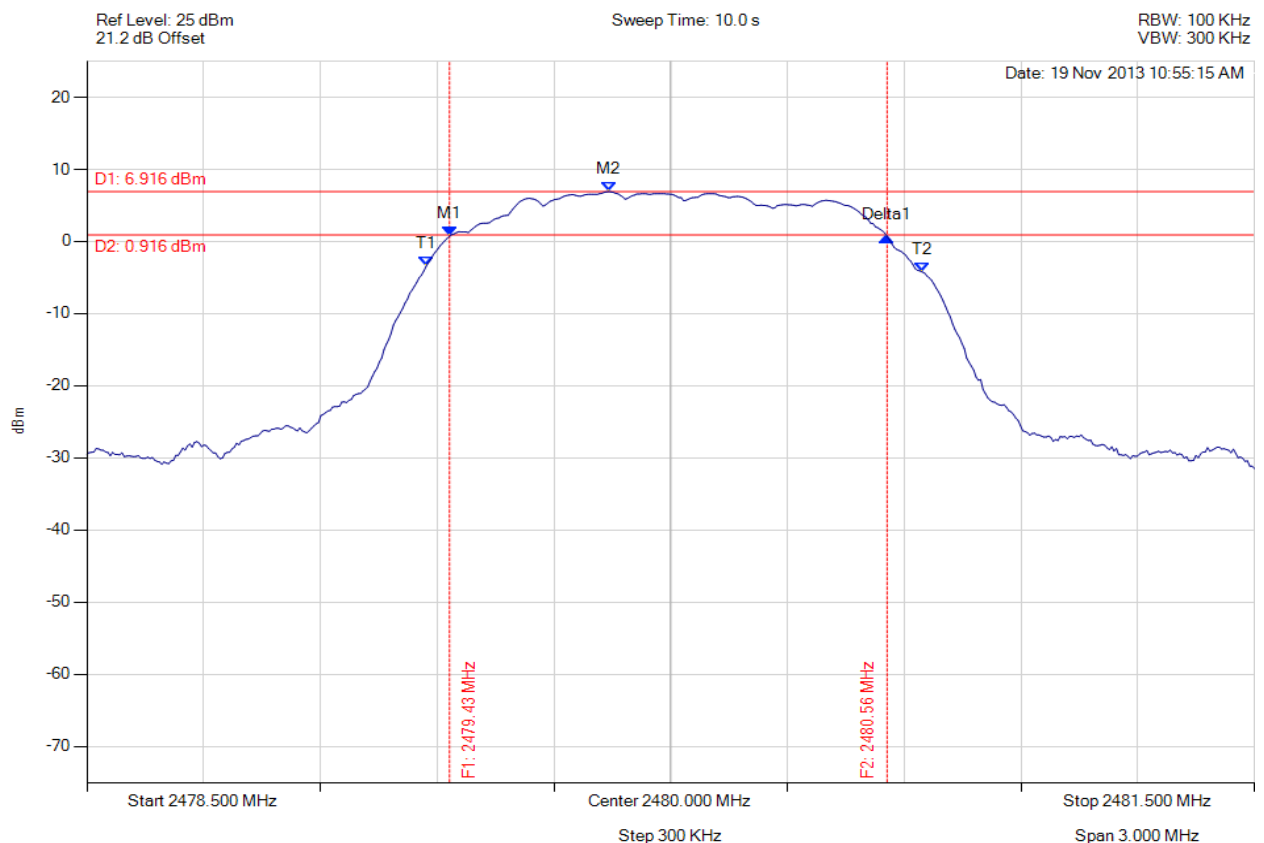
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2440.438 MHz : 0.542 dBm M2 : 2440.841 MHz : 6.664 dBm Delta1 : 1.118 MHz : -0.026 dB T1 : 2440.372 MHz : -4.062 dBm T2 : 2441.646 MHz : -4.546 dBm OBW : 1.275 MHz	Measured 6 dB Bandwidth: 1.118 MHz Limit: ≥500.0 kHz Margin: -0.62 MHz

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6 dB & 99% BANDWIDTH

Variant: DH5, Channel: 2480.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2479.432 MHz : 0.731 dBm M2 : 2479.841 MHz : 6.916 dBm Delta1 : 1.124 MHz : -0.063 dB T1 : 2479.372 MHz : -3.430 dBm T2 : 2480.646 MHz : -4.221 dBm OBW : 1.275 MHz	Measured 6 dB Bandwidth: 1.124 MHz Limit: ≥ 500.0 kHz Margin: -0.62 MHz

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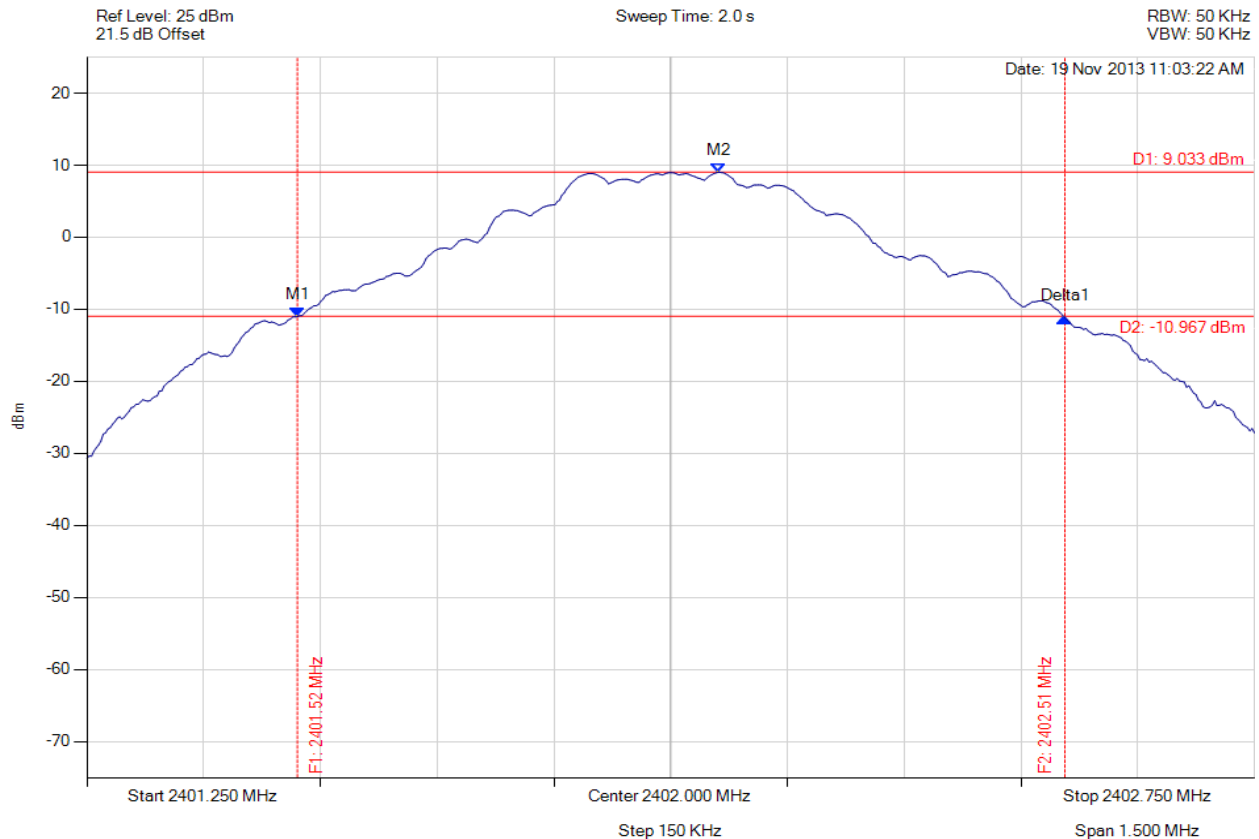
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A.1.2. Peak Output Power



PEAK OUTPUT POWER

Variant: DH1, Channel: 2402.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



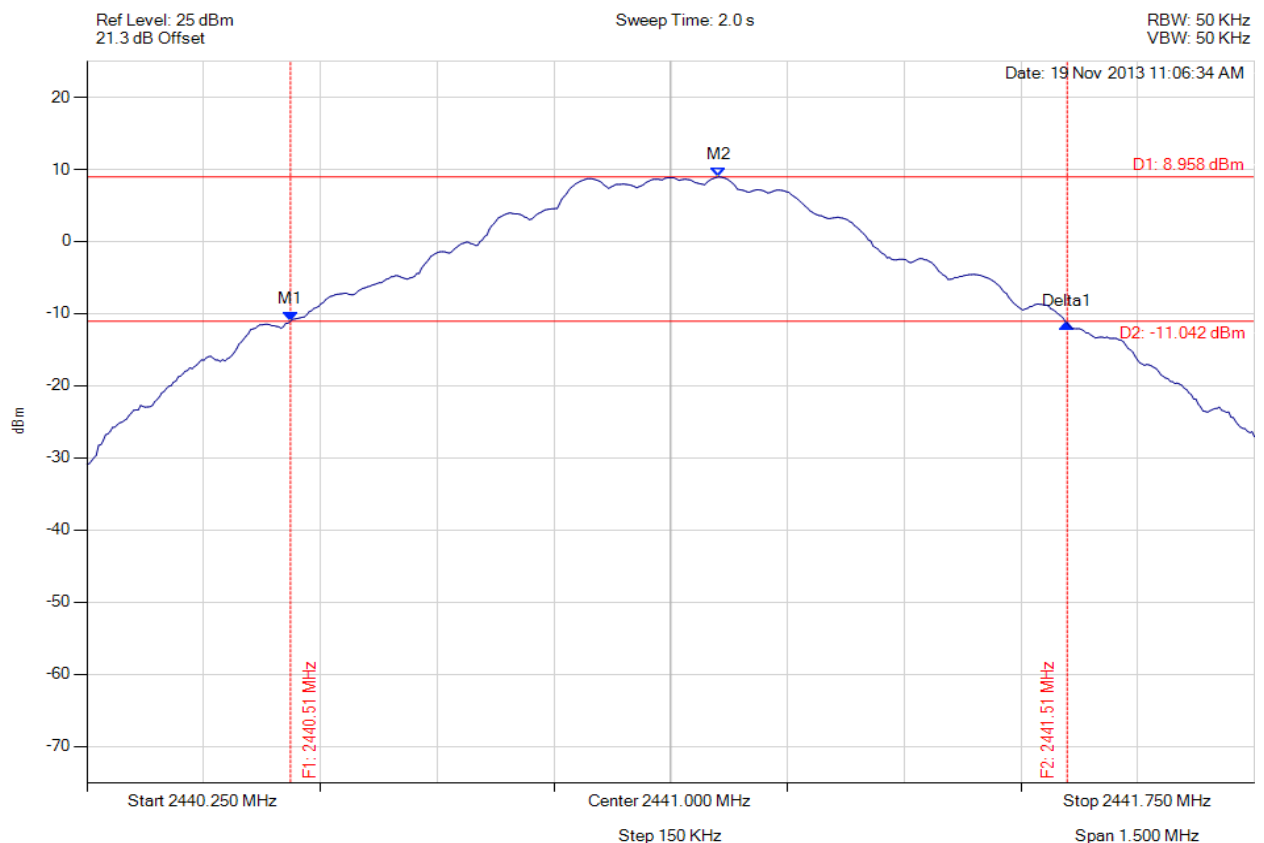
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2401.521 MHz : -11.018 dBm M2 : 2402.062 MHz : 9.033 dBm Delta1 : 986 KHz : -0.144 dB	Channel Power: 16.50 dBm Limit: 30.00 dBm Margin: -13.50 dB

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PEAK OUTPUT POWER

Variant: DH1, Channel: 2441.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



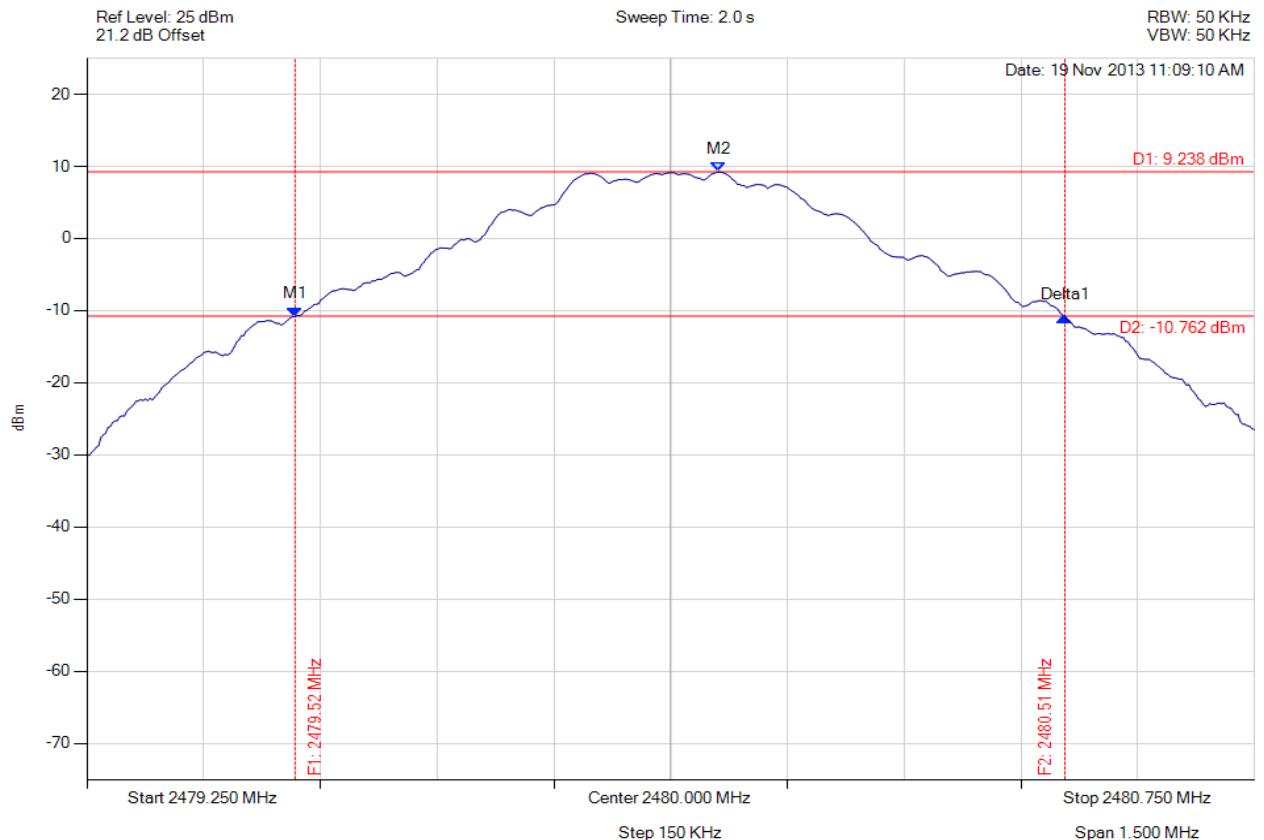
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2440.512 MHz : -11.054 dBm M2 : 2441.062 MHz : 8.958 dBm Delta1 : 998 KHz : -0.262 dB	Channel Power: 16.46 dBm Limit: 30.00 dBm Margin: -13.54 dB

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PEAK OUTPUT POWER

Variant: DH1, Channel: 2480.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



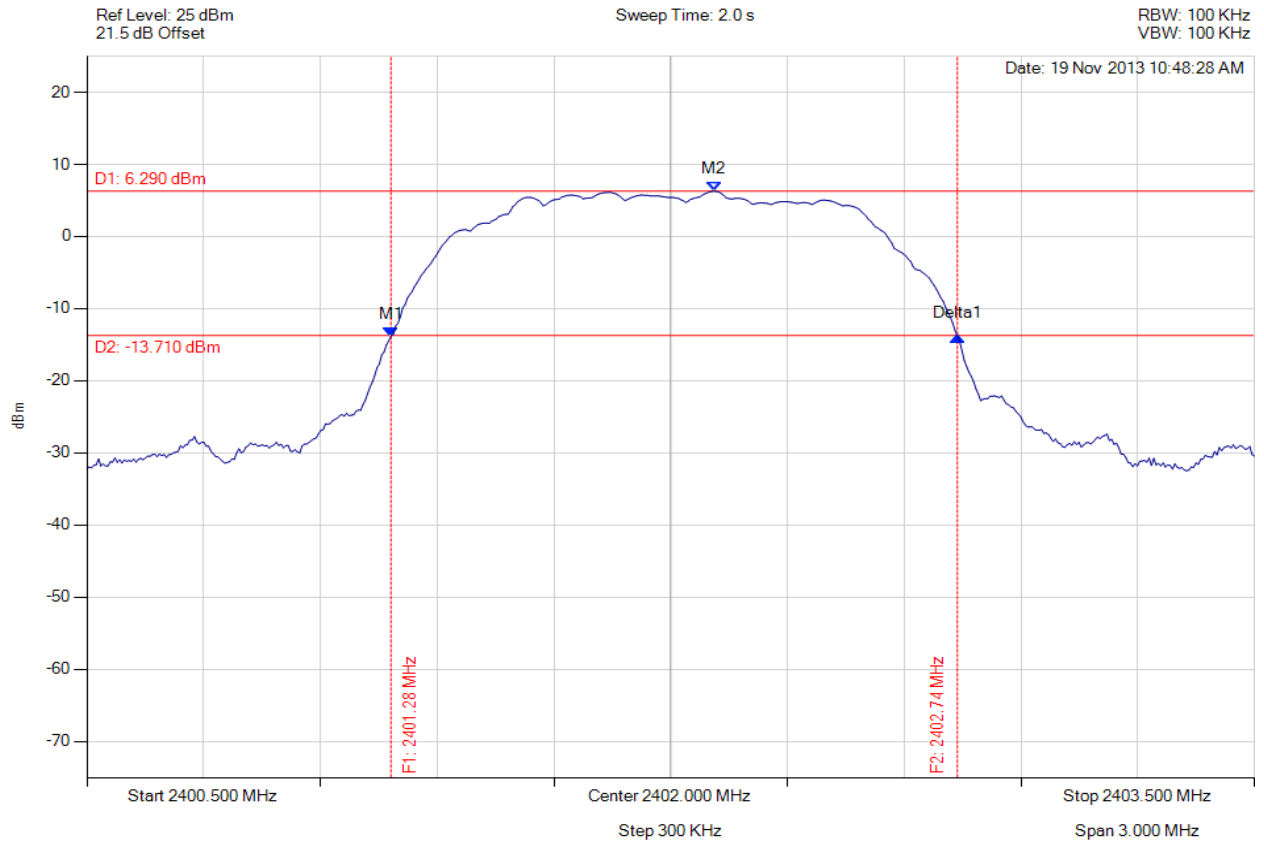
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2479.518 MHz : -10.800 dBm M2 : 2480.062 MHz : 9.238 dBm Delta1 : 989 KHz : -0.049 dB	Channel Power: 16.69 dBm Limit: 30.00 dBm Margin: -13.31 dB

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PEAK OUTPUT POWER

Variant: DH5, Channel: 2402.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



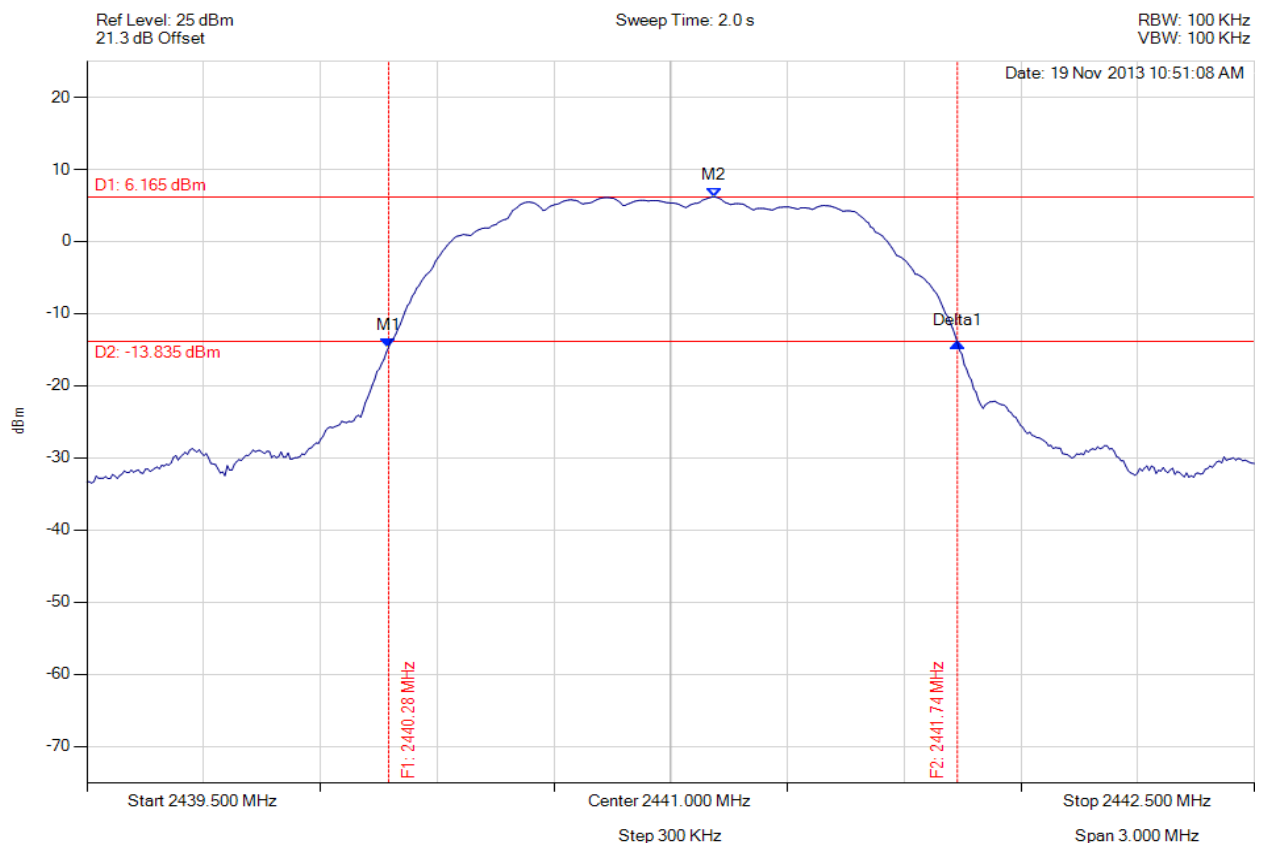
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2401.282 MHz : -13.826 dBm M2 : 2402.111 MHz : 6.290 dBm Delta1 : 1.455 MHz : 0.026 dB	Channel Power: 14.82 dBm Limit: 30.00 dBm Margin: -15.18 dB

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PEAK OUTPUT POWER

Variant: DH5, Channel: 2441.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



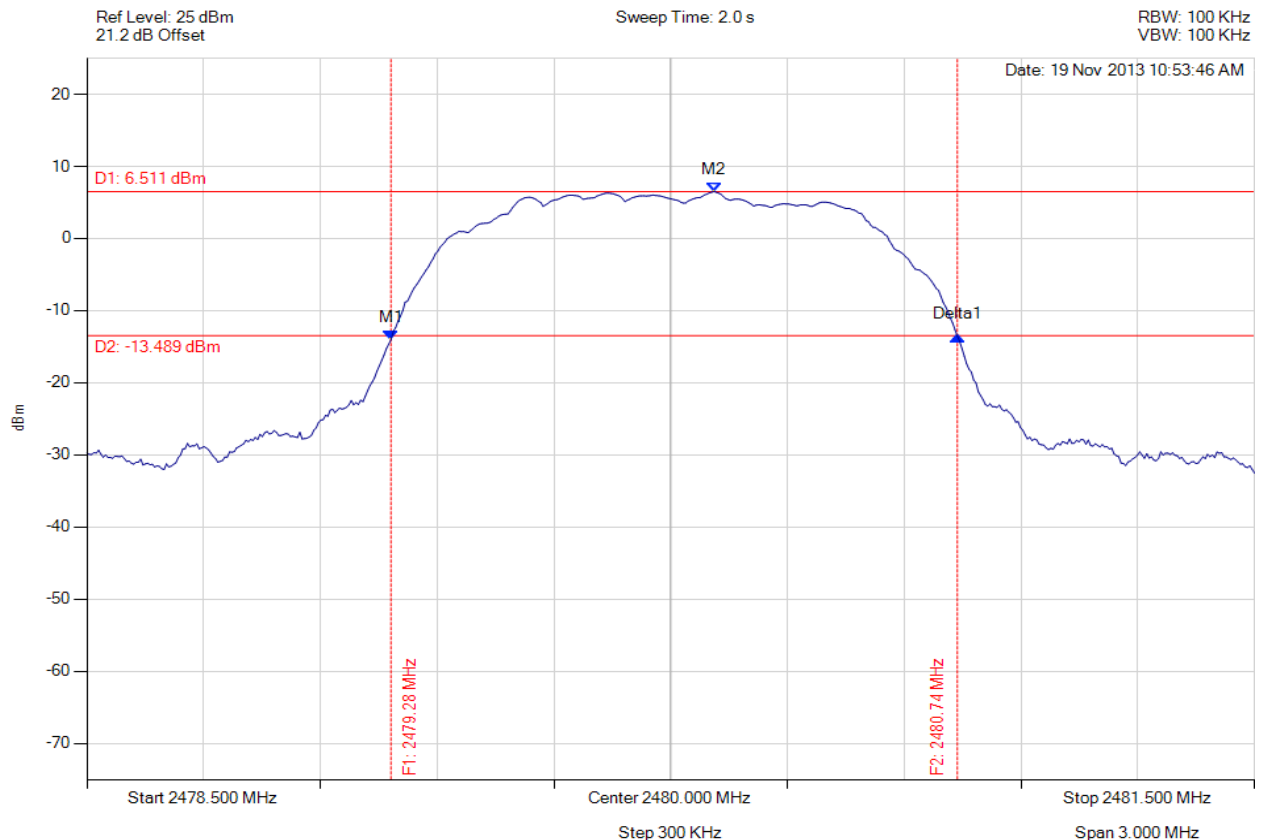
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2440.276 MHz : -14.638 dBm M2 : 2441.111 MHz : 6.165 dBm Delta1 : 1.461 MHz : 0.657 dB	Channel Power: 14.79 dBm Limit: 30.00 dBm Margin: -15.21 dB

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PEAK OUTPUT POWER

Variant: DH5, Channel: 2480.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2479.282 MHz : -14.026 dBm M2 : 2480.111 MHz : 6.511 dBm Delta1 : 1.455 MHz : 0.504 dB	Channel Power: 14.96 dBm Limit: 30.00 dBm Margin: -15.04 dB

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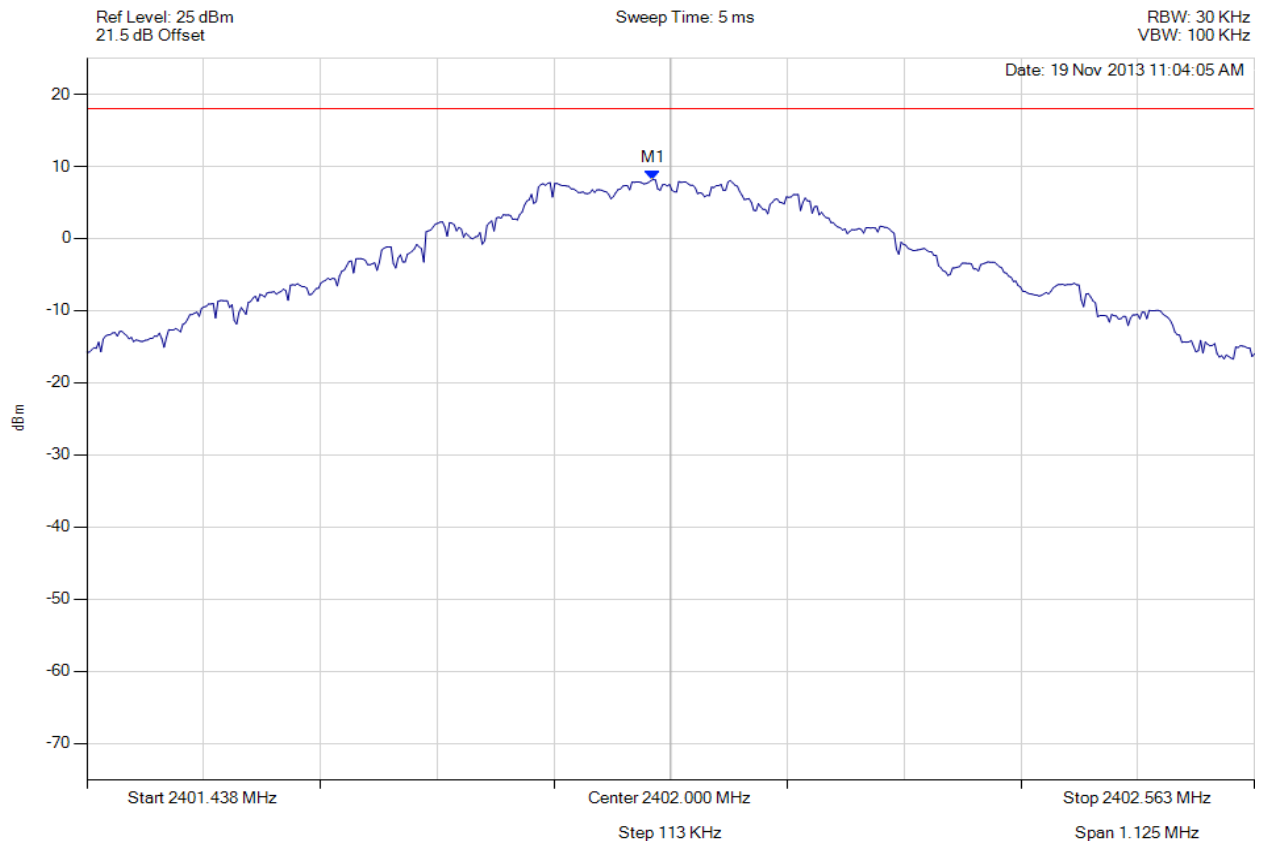
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A.1.3. Power Spectral Density



POWER SPECTRAL DENSITY - PEAK

Variant: DH1, Channel: 2402.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2401.983 MHz : 8.175 dBm	Limit: ≤ 18.000 dBm Margin: -9.82 dB

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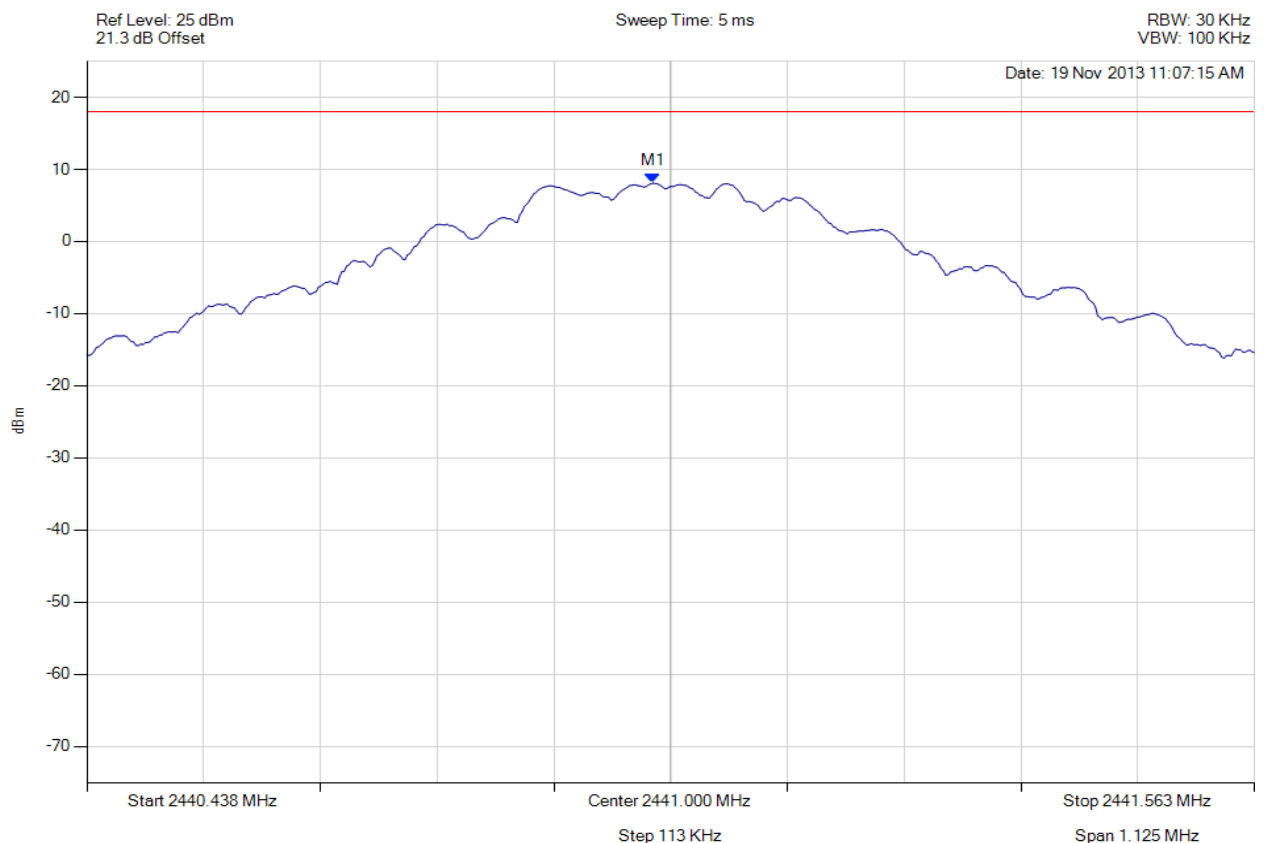


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POWER SPECTRAL DENSITY - PEAK

Variant: DH1, Channel: 2441.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



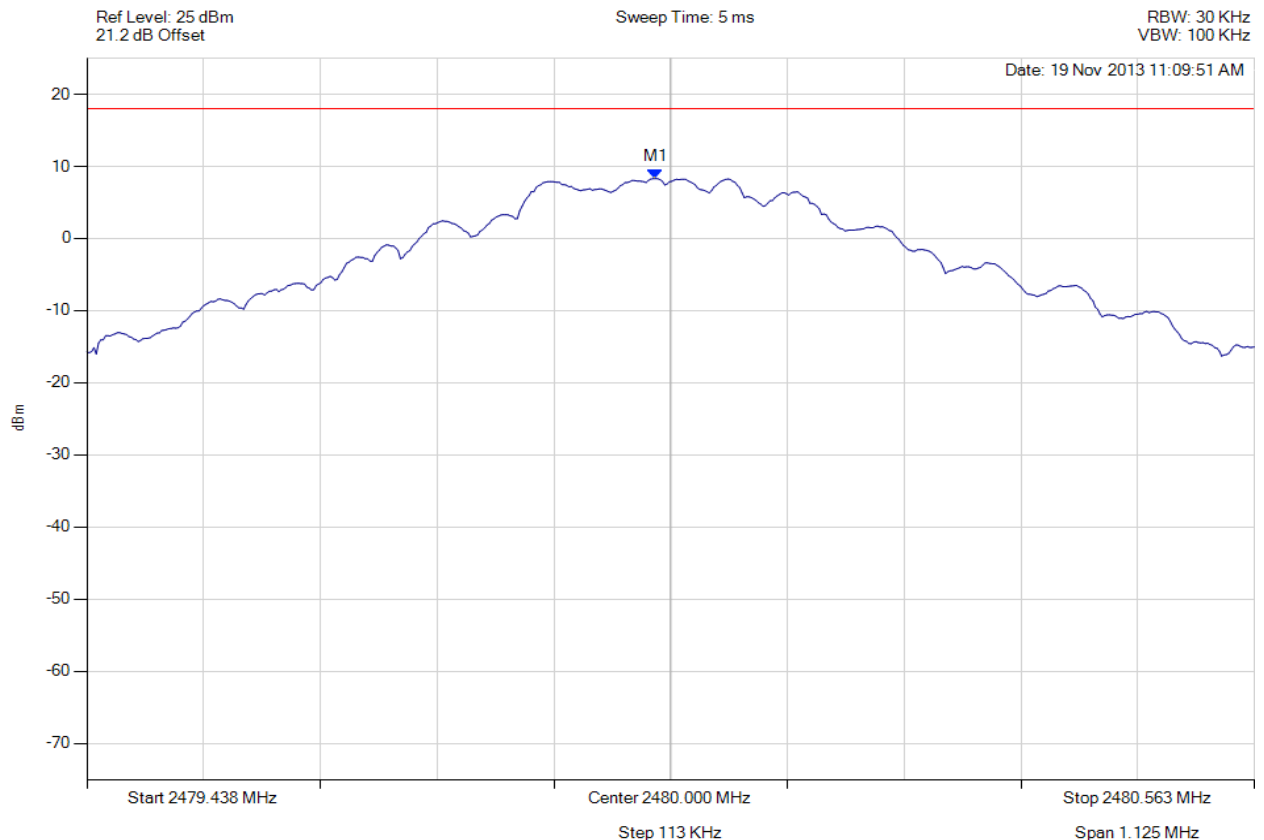
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2440.983 MHz : 8.075 dBm	Limit: ≤ 18.000 dBm Margin: -9.93 dB

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POWER SPECTRAL DENSITY - PEAK

Variant: DH1, Channel: 2480.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2479.985 MHz : 8.313 dBm	Limit: ≤ 18.000 dBm Margin: -9.69 dB

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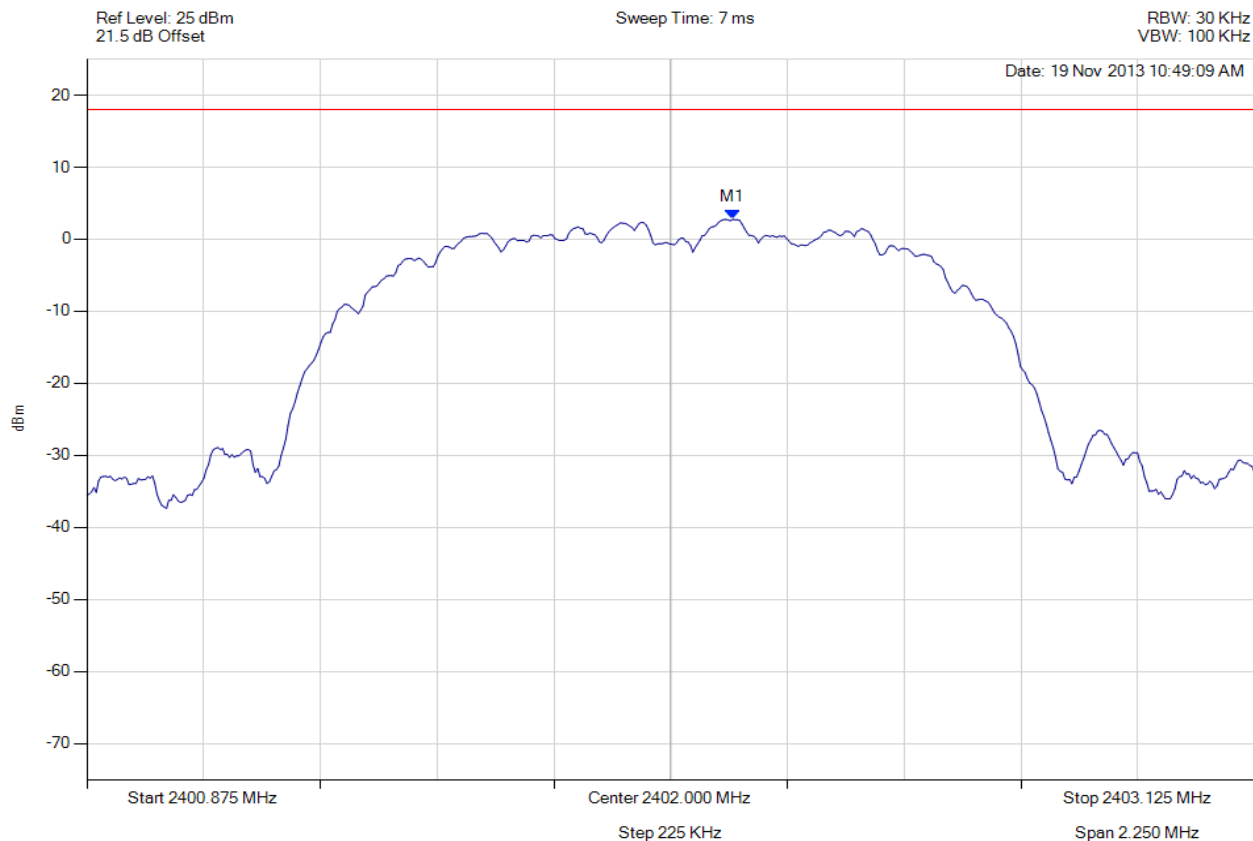


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POWER SPECTRAL DENSITY - PEAK

Variant: DH5, Channel: 2402.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2402.119 MHz : 2.759 dBm	Limit: ≤ 18.000 dBm Margin: -15.24 dB

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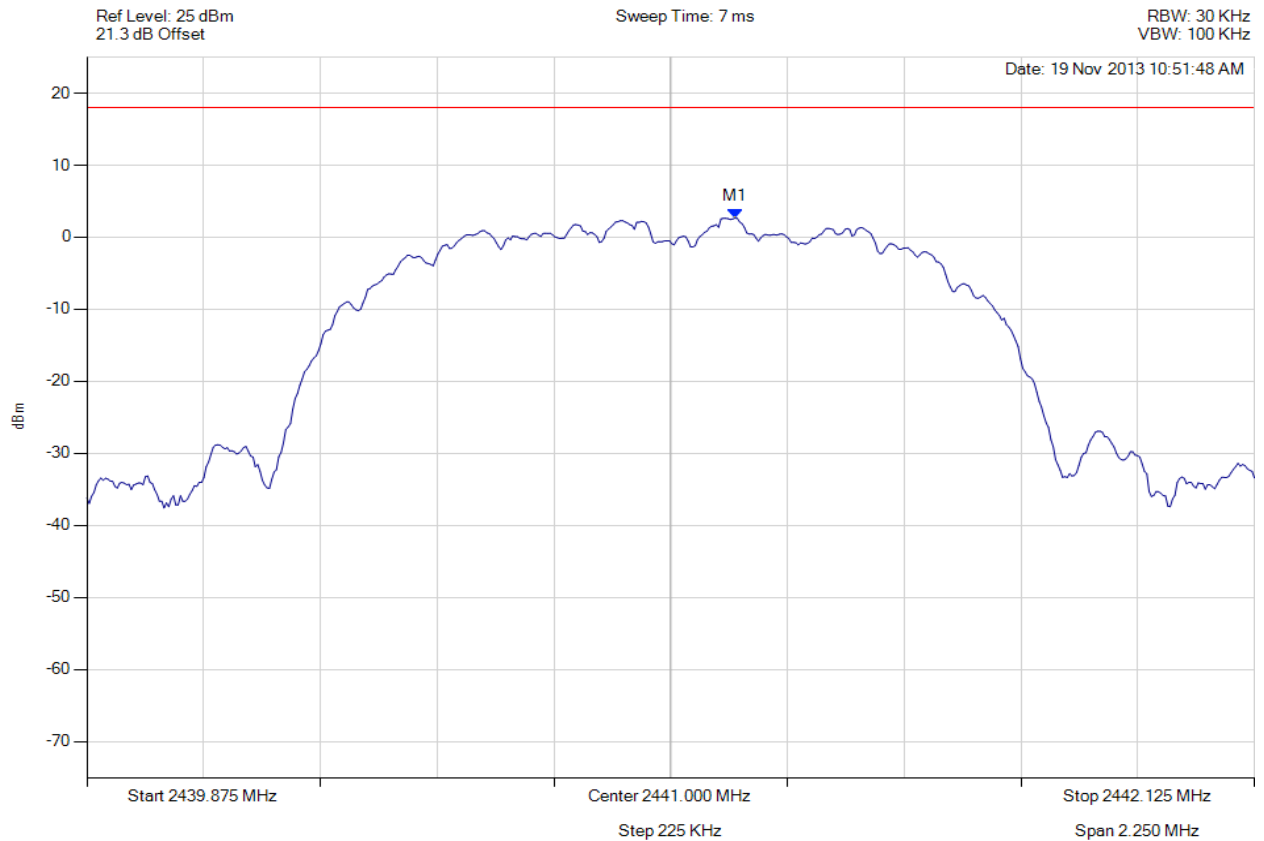


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POWER SPECTRAL DENSITY - PEAK

Variant: DH5, Channel: 2441.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2441.124 MHz : 2.655 dBm	Limit: ≤ 18.000 dBm Margin: -15.35 dB

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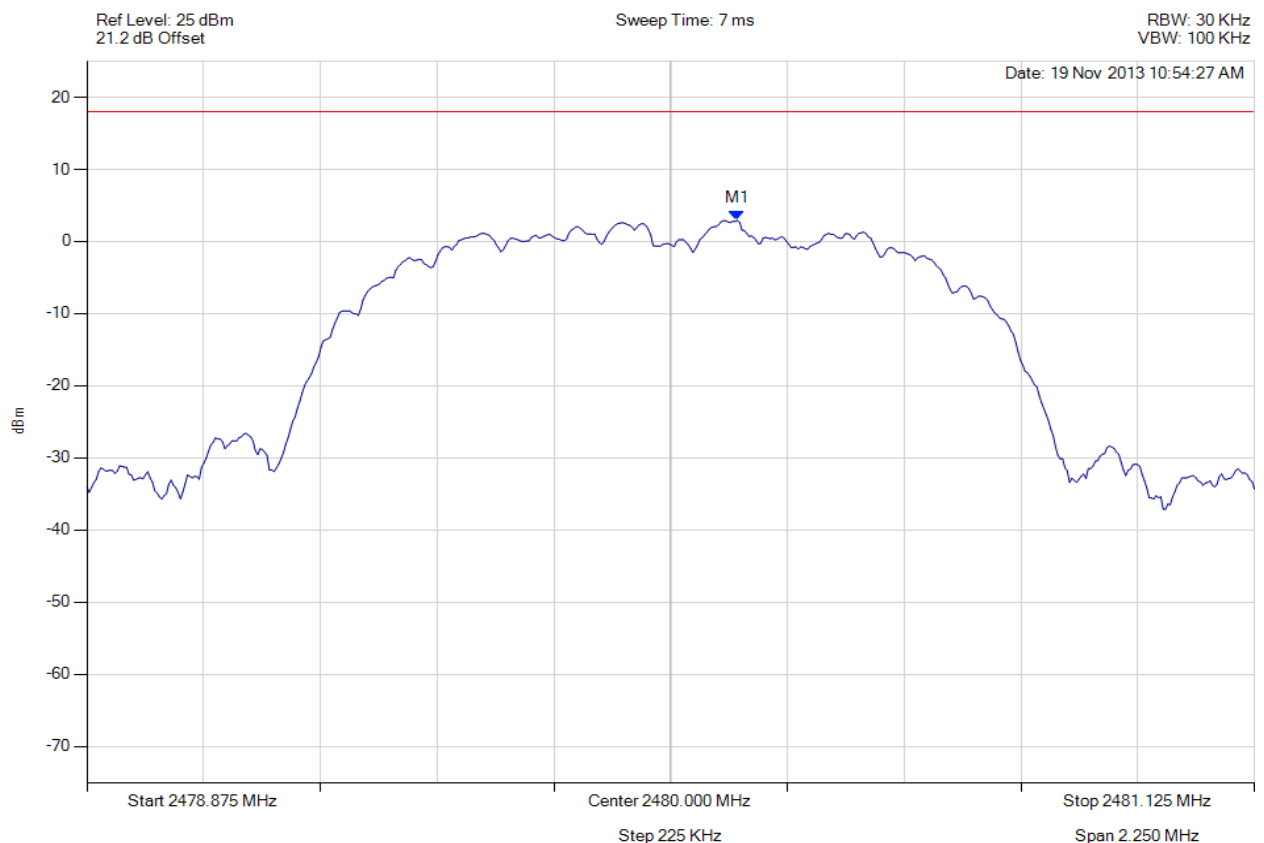


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POWER SPECTRAL DENSITY - PEAK

Variant: DH5, Channel: 2480.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2480.129 MHz : 2.922 dBm	Limit: ≤ 18.000 dBm Margin: -15.08 dB

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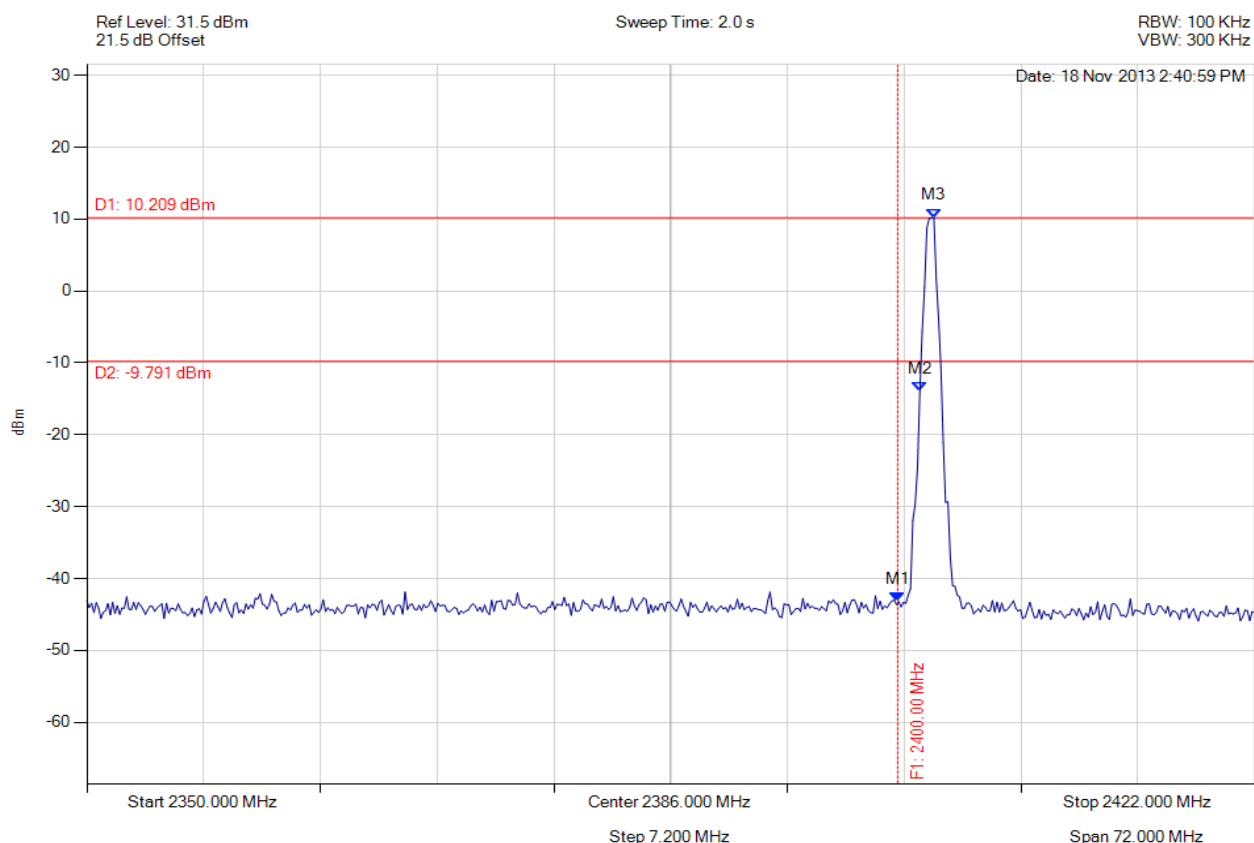
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A.1.4. Conducted Spurious Emissions



CONDUCTED LOW BAND-EDGE EMISSION - PEAK

Variant: DH1, Channel: 2402.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



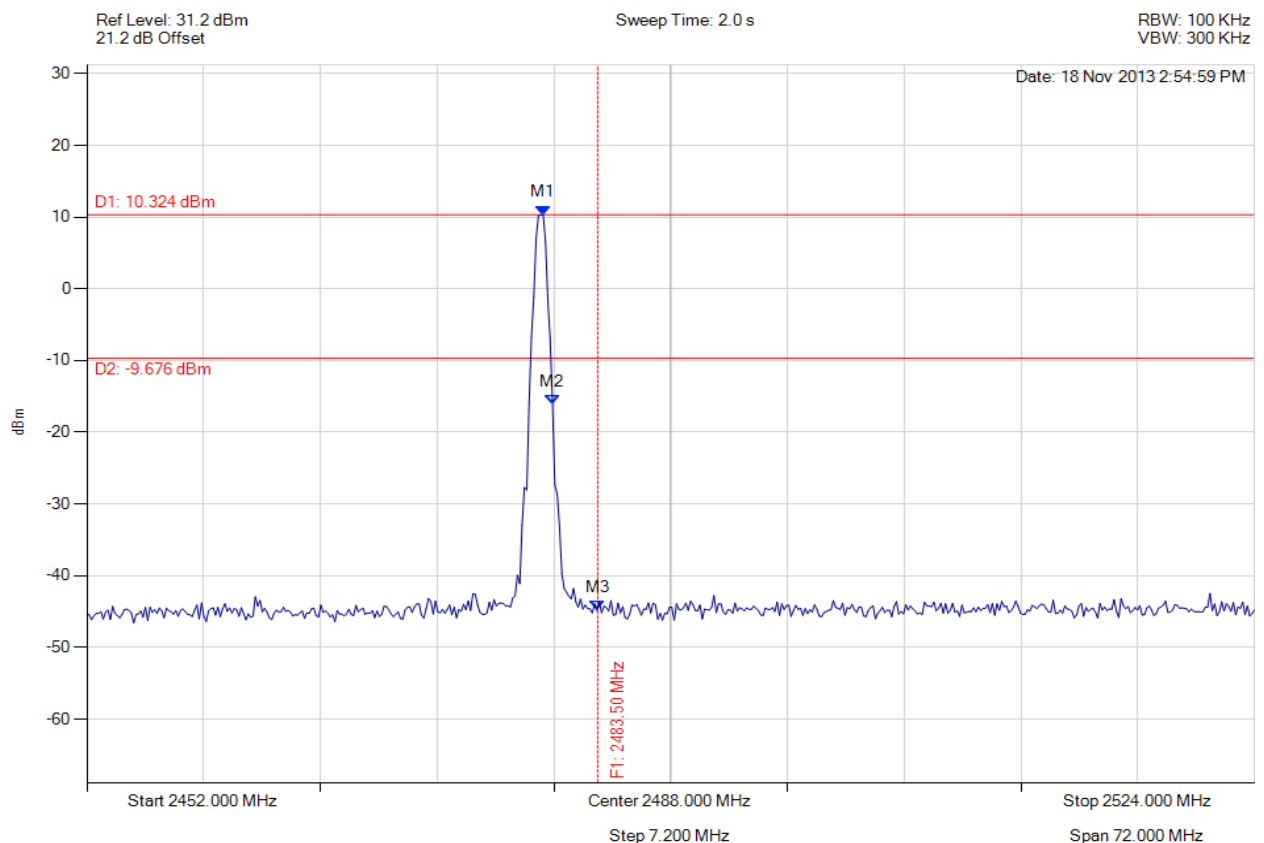
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2400.000 MHz : -43.187 dBm M2 : 2401.367 MHz : -13.942 dBm M3 : 2402.232 MHz : 10.209 dBm	Channel Frequency: 2402.00 MHz

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CONDUCTED HIGH BAND-EDGE EMISSION - PEAK

Variant: DH1, Channel: 2480.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



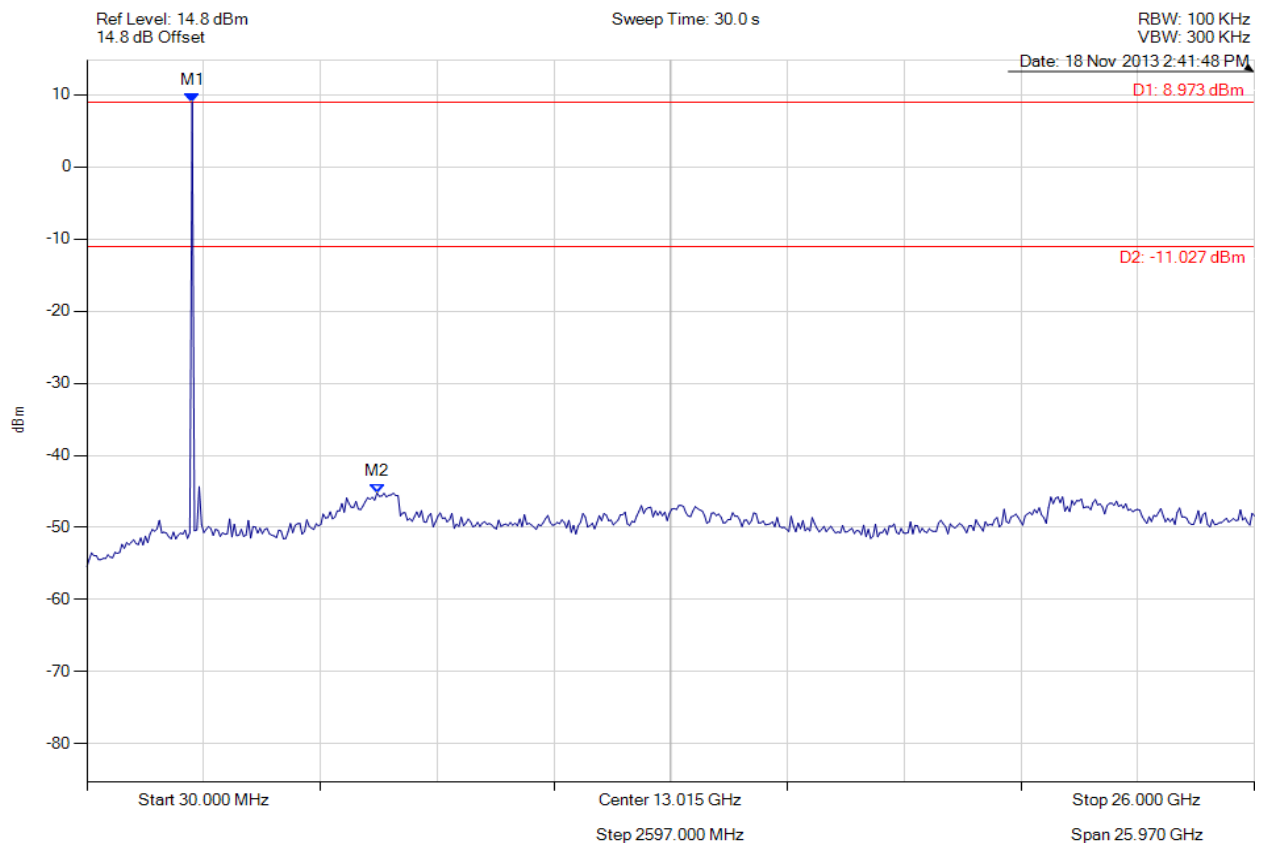
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2480.136 MHz : 10.324 dBm M2 : 2480.713 MHz : -16.125 dBm M3 : 2483.500 MHz : -44.807 dBm	Channel Frequency: 2480.00 MHz

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CONDUCTED SPURIOUS EMISSIONS - PEAK

Variant: DH1, Channel: 2402.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2371.984 MHz : 8.973 dBm M2 : 6483.467 MHz : -45.206 dBm	Limit: -11.03 dBm Margin: -34.18 dB

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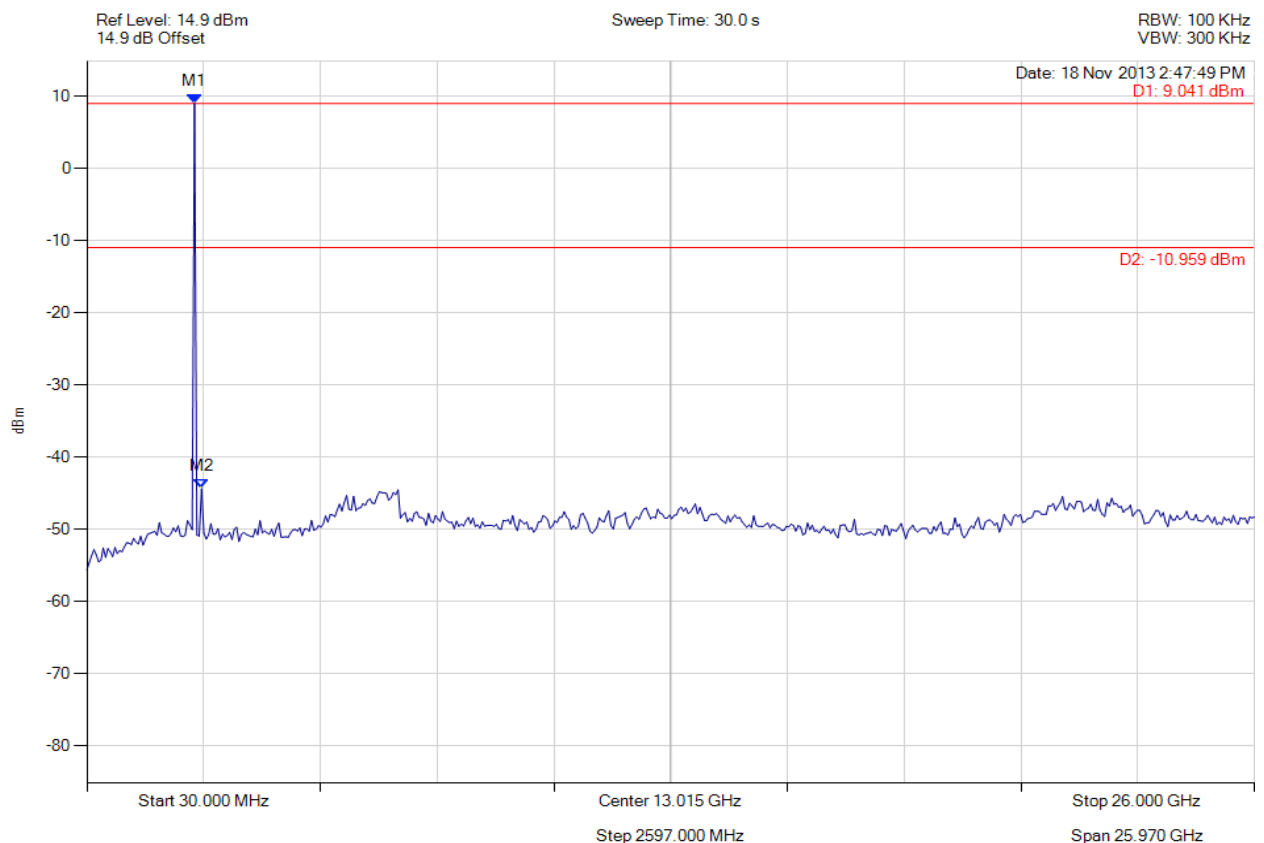


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CONDUCTED SPURIOUS EMISSIONS - PEAK

Variant: DH1, Channel: 2441.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2424.028 MHz : 9.041 dBm M2 : 2580.160 MHz : -44.376 dBm	Limit: -10.96 dBm Margin: -33.42 dB

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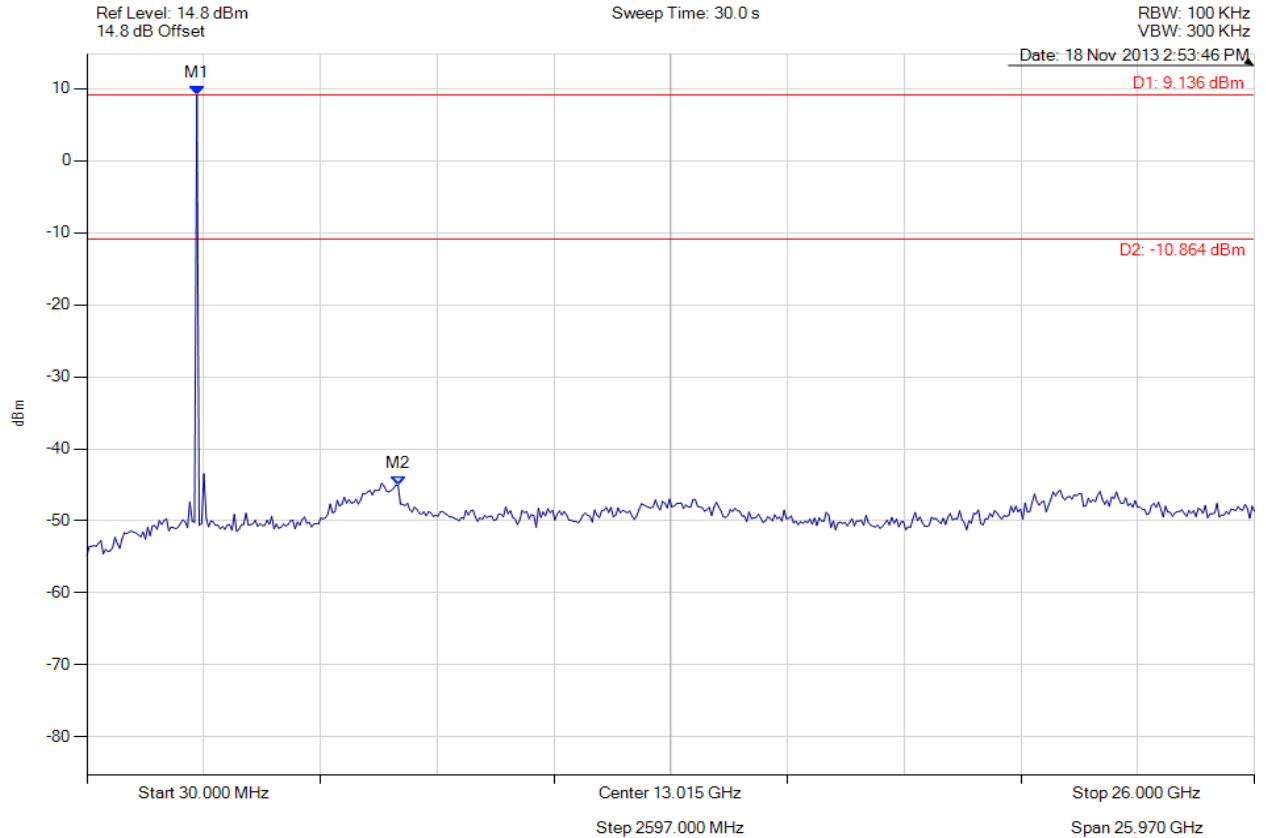


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CONDUCTED SPURIOUS EMISSIONS - PEAK

Variant: DH1, Channel: 2480.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



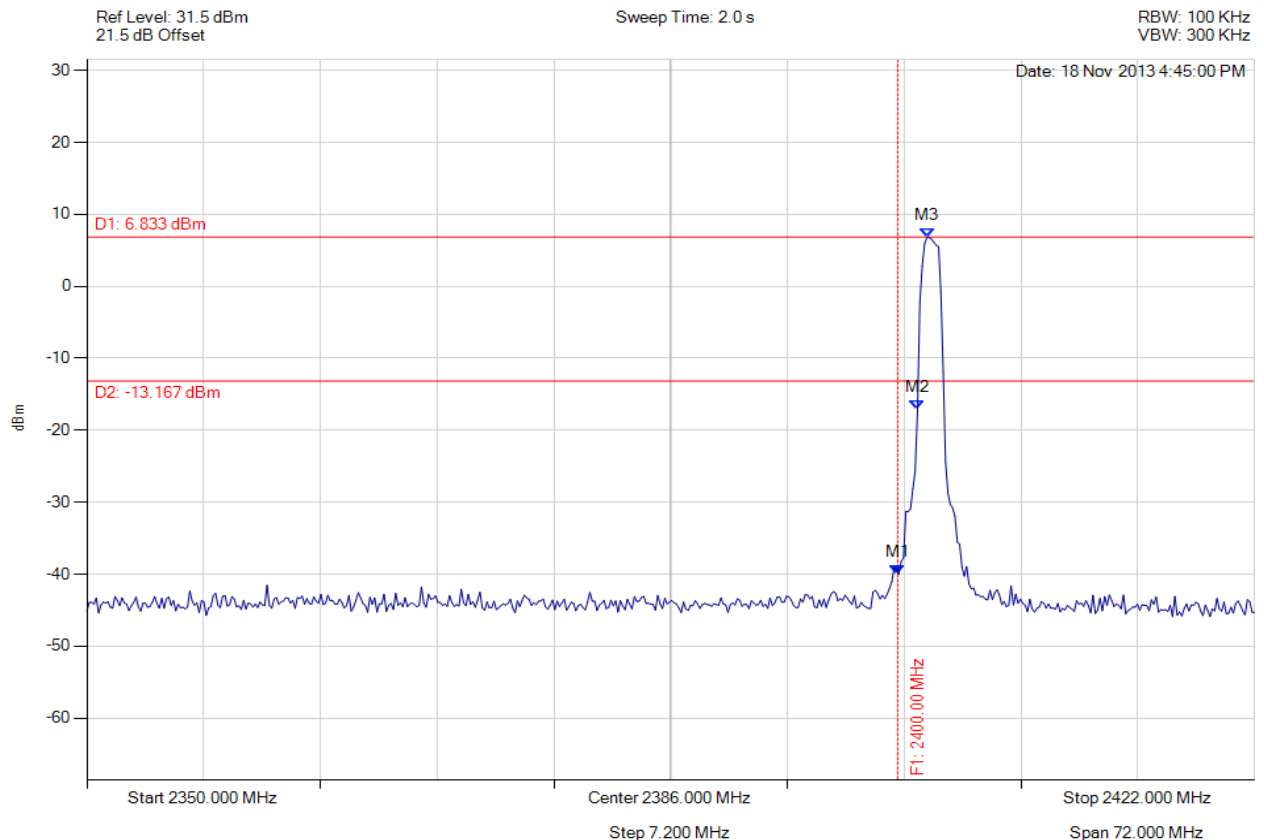
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2476.072 MHz : 9.136 dBm M2 : 6951.864 MHz : -45.043 dBm	Limit: -10.86 dBm Margin: -34.18 dB

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CONDUCTED LOW BAND-EDGE EMISSION - PEAK

Variant: DH5, Channel: 2402.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



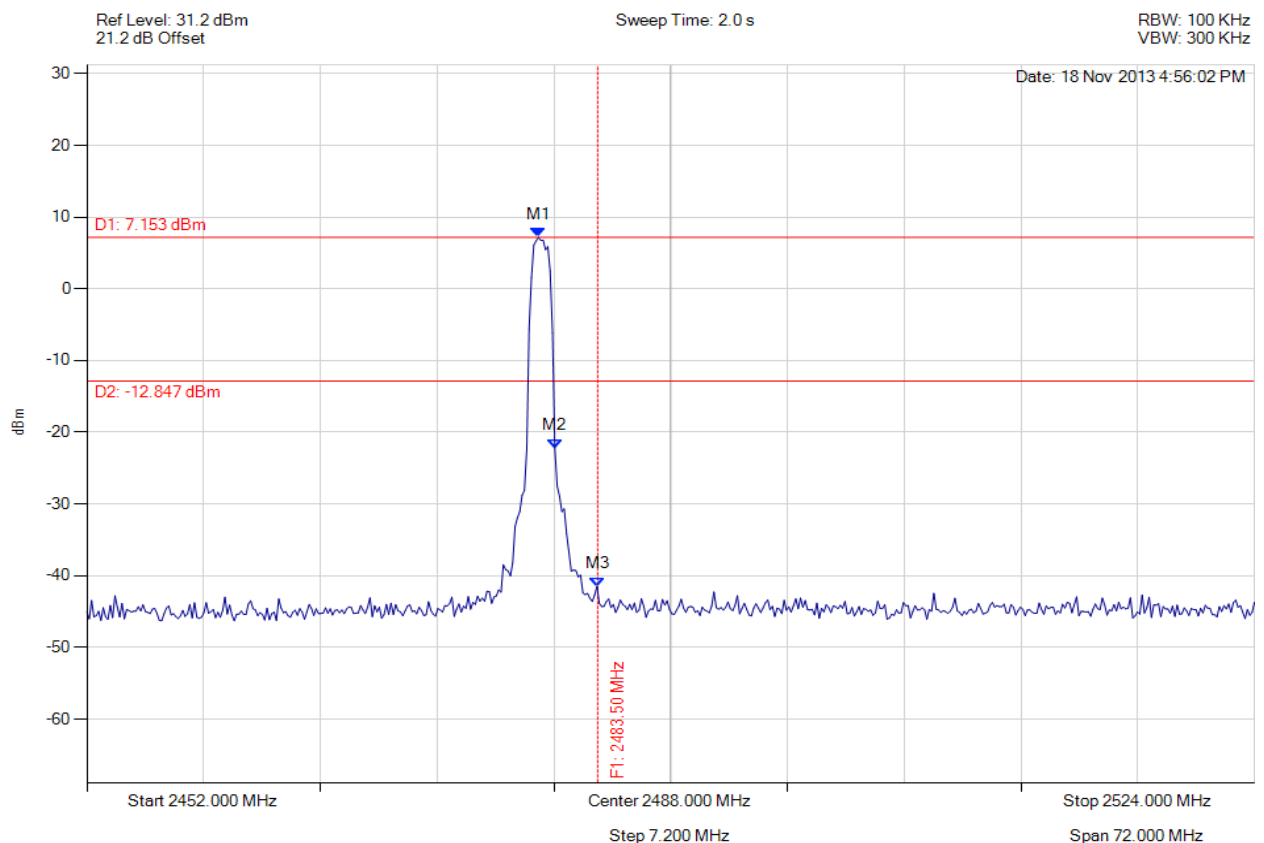
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2400.000 MHz : -40.015 dBm M2 : 2401.222 MHz : -17.186 dBm M3 : 2401.800 MHz : 6.833 dBm	Channel Frequency: 2402.00 MHz

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CONDUCTED HIGH BAND-EDGE EMISSION - PEAK

Variant: DH5, Channel: 2480.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



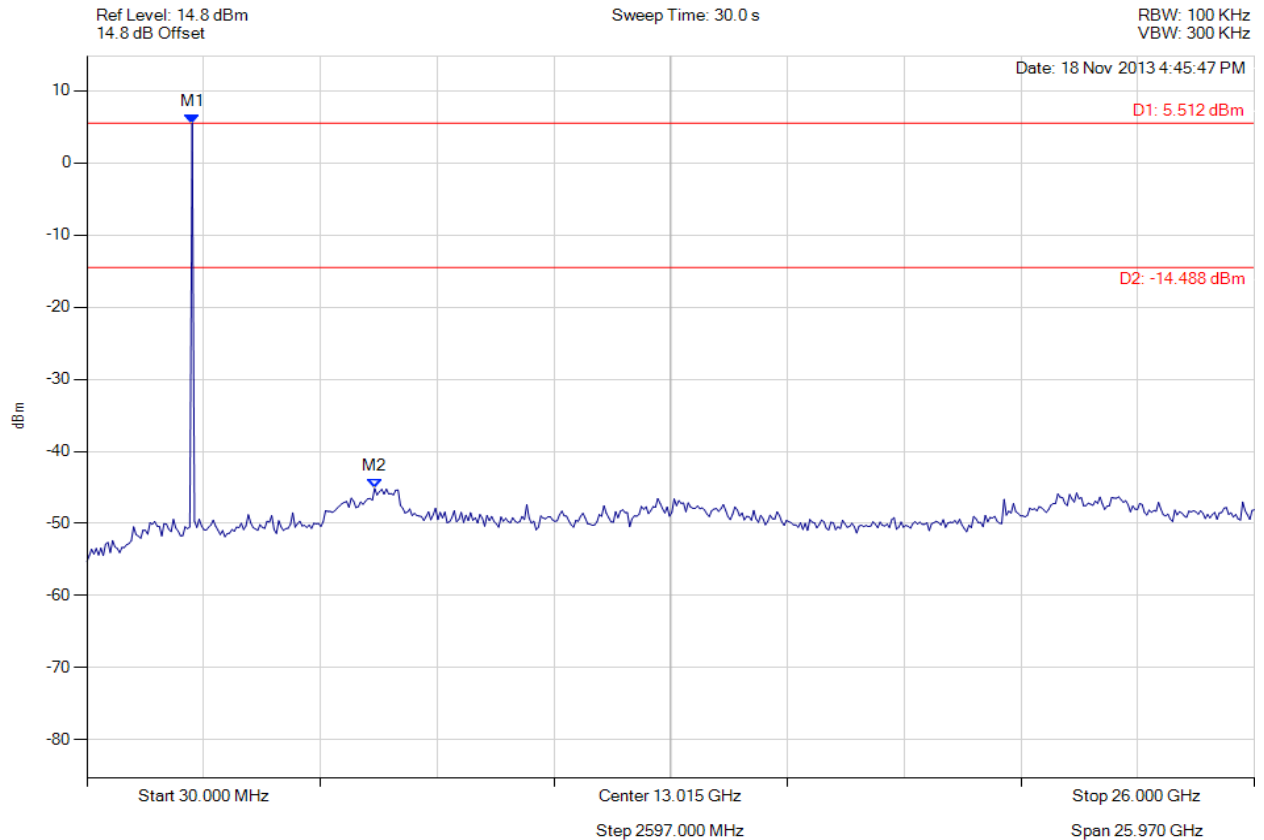
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2479.848 MHz : 7.153 dBm M2 : 2480.858 MHz : -22.200 dBm M3 : 2483.500 MHz : -41.482 dBm	Channel Frequency: 2480.00 MHz

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CONDUCTED SPURIOUS EMISSIONS - PEAK

Variant: DH5, Channel: 2402.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



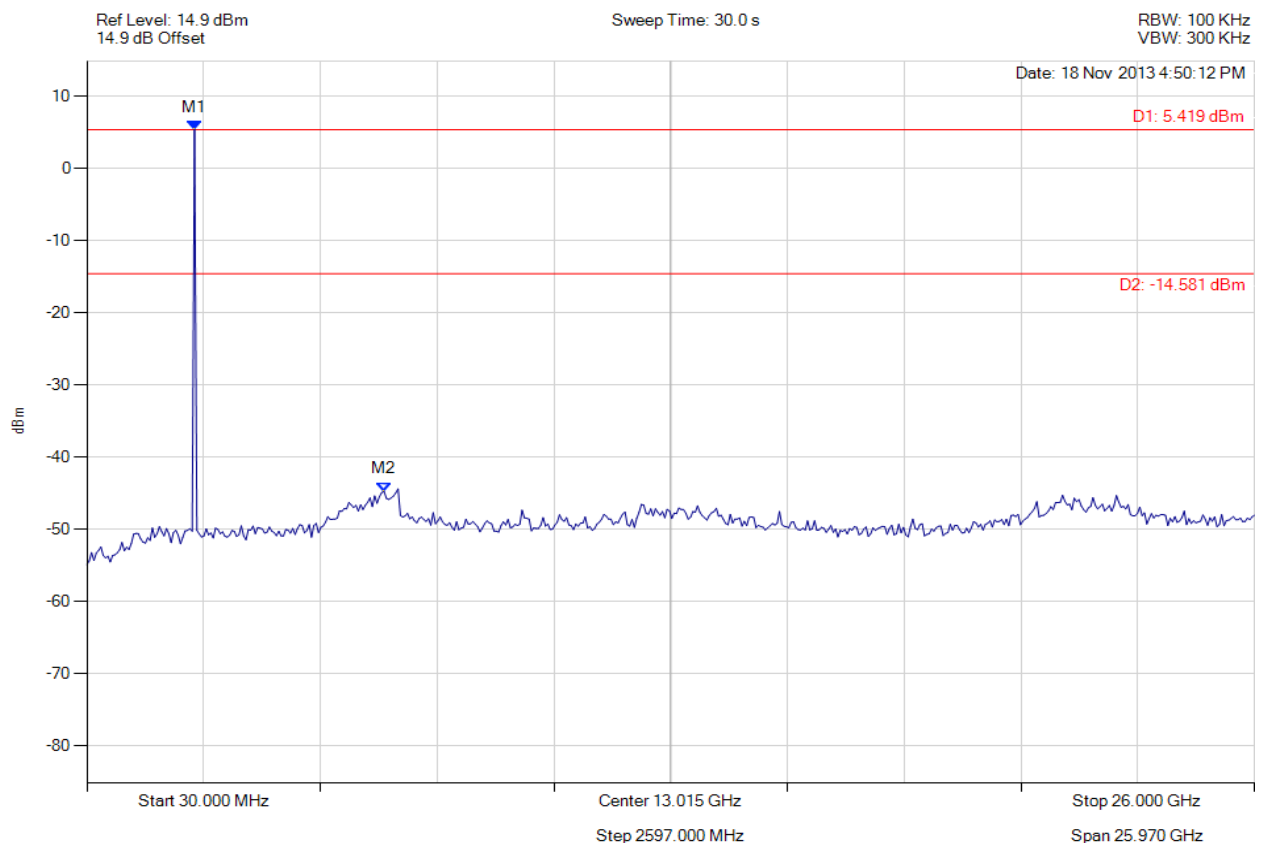
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2371.984 MHz : 5.512 dBm M2 : 6431.423 MHz : -45.132 dBm	Limit: -14.49 dBm Margin: -30.64 dB

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CONDUCTED SPURIOUS EMISSIONS - PEAK

Variant: DH5, Channel: 2441.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2424.028 MHz : 5.419 dBm M2 : 6639.599 MHz : -44.746 dBm	Limit: -14.58 dBm Margin: -30.17 dB

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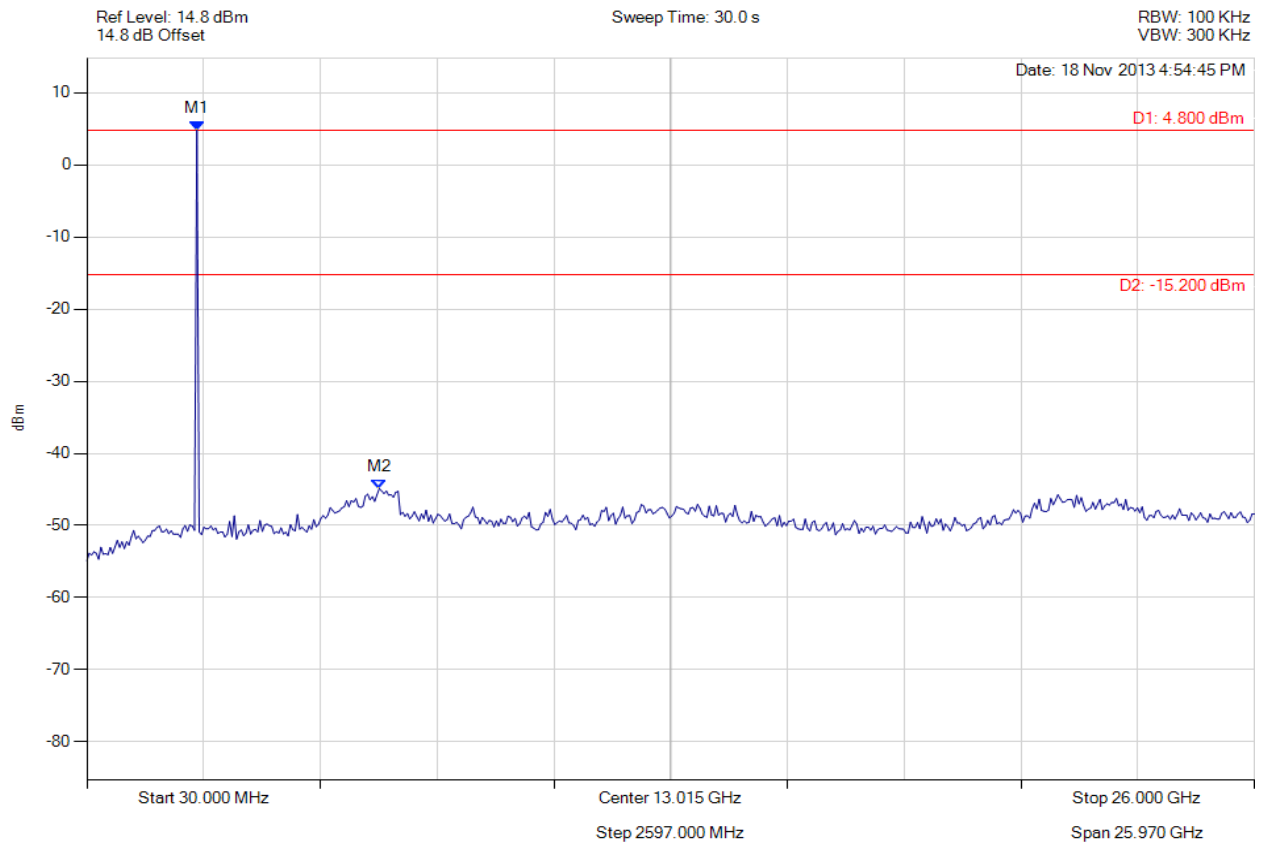


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CONDUCTED SPURIOUS EMISSIONS - PEAK

Variant: DH5, Channel: 2480.00 MHz, Chain a, Temp: Ambient, Voltage: 3.6 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2476.072 MHz : 4.800 dBm M2 : 6535.511 MHz : -44.872 dBm	Limit: -15.20 dBm Margin: -29.67 dB

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