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NEWBERRY, FL 32669 USA  
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[HTTP://WWW.TIMCOENGR.COM](http://WWW.TIMCOENGR.COM)

## TEST REPORT PER FCC PT 15.247 FHSS

<b>APPLICANT</b>	MOTOROLA SOLUTIONS, INC.
<b>ADDRESS</b>	8000 WEST SUNRISE BLVD FT. LAUDERDALE FL 33322-9947 USA
<b>FCC ID MODEL</b>	AZ489FT4905 H51QDH9PW7AN (MUE3775)
<b>PRODUCT DESCRIPTION</b>	PORTABLE UHF1 RADIO WITH BLUETOOTH
<b>DATE SAMPLE RECEIVED</b>	8/26/2011
<b>DATE TESTED</b>	9/14/2011
<b>TESTED BY</b>	Nam Nguyen
<b>APPROVED BY</b>	Mario de Aranzeta
<b>TIMCO REPORT NO.</b>	1978BT11TestReport_Rev.doc
<b>TEST RESULTS</b>	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL

**THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL  
WITHOUT THE WRITTEN APPROVAL OF TIMCO ENGINEERING, INC.**



Certificate # 0955-01



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APPLICANT: MOTOROLA SOLUTIONS, INC.  
 FCC ID: AZ489FT4905 IC: 109U-89FT4905  
 MODEL: H51QDH9PW7AN (MUE37750)  
 REPORT: Z:\M\MOTOROLA FL MR\1978BT11\1978BT11TestReport\_Rev.doc

**ATTESTATION**

This equipment has been tested in accordance with the standards identified in the referenced test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report and demonstrate that the equipment complies with the appropriate standards.

All instrumentation and accessories used to test products for compliance to the indicated standards are calibrated regularly in accordance with ISO 17025: 2005 requirements.

I attest that the necessary measurements were made by me or under my supervision, at Timco Engineering, Inc. located at 849 N.W. State Road 45, Newberry, Florida 32669 USA.



Testing Certificate #0955-01

**AUTHORIZED BY:** Mario de Aranzeta



**SIGNATURE:**

**FUNCTION:** Lab Supervisor/ Test Engineer

**DATE:** 9/13/2011

APPLICANT: MOTOROLA SOLUTIONS, INC.  
FCC ID: AZ489FT4905, IC: 109U-89FT4905  
MODEL: H51QDH9PW7AN (MUE3775)  
REPORT: Z:\M\MOTOROLA FL MR\1978BT11\1978BT11TestReport\_Rev.doc



## REPORT SUMMARY

Disclaimer:	The test results relate only to the items tested.
Purpose of Test:	To demonstrate that the DUT is compliant with FCC Pt 15.247 requirements for a FHSS radio.
Applicable Standards:	FCC Pt 15.247, ANSI C63.4: 2003, ANSI TIA-603: 2004, FCC Pt 15.109
Related Reports:	N/A

## TEST ENVIRONMENT AND TEST SETUP

Test Facilities:	All measurements were made at one or more of the test sites of TIMCO ENGINEERING INC. located at 849 N.W. State Road 45, Newberry, FL 32669.
Laboratory Test Conditions:	Temperature: 26°C, Humidity: 55%
Test Exercise:	The DUT was set in continuous transmit mode of operation.
Deviation to the Standards:	There was no deviation from the standard.
Modification to the DUT:	No modification was made.
Supporting Accessories:	None

APPLICANT: MOTOROLA SOLUTIONS, INC.  
FCC ID: AZ489FT4905, IC: 109U-89FT4905  
MODEL: H51QDH9PW7AN (MUE3775)  
REPORT: Z:\M\MOTOROLA FL MR\1978BT11\1978BT11TestReport\_Rev.doc

**DUT DESCRIPTION**

<b>DUT Description</b>	PORTABLE UHF1 RADIO WITH BLUETOOTH
<b>FCC ID</b>	AZ489FT4905
<b>IC</b>	109U-89FT4905
<b>Model Number</b>	H51QDH9PW7AN (MUE3775)
<b>Operating Frequency</b>	(2402.00 – 2480.00) MHz
<b>DUT Power Source</b>	<input type="checkbox"/> 110–120Vac/50– 60Hz
	<input type="checkbox"/> DC Power
	<input checked="" type="checkbox"/> Battery Operated Exclusively
<b>Test Item</b>	<input type="checkbox"/> Prototype
	<input checked="" type="checkbox"/> Pre-Production
	<input type="checkbox"/> Production
<b>Type of Equipment</b>	<input type="checkbox"/> Fixed
	<input type="checkbox"/> Mobile
	<input checked="" type="checkbox"/> Portable
<b>Antenna</b>	Integral antenna

APPLICANT: MOTOROLA SOLUTIONS, INC.  
 FCC ID: AZ489FT4905, IC: 109U-89FT4905  
 MODEL: H51QDH9PW7AN (MUE3775)  
 REPORT: Z:\M\MOTOROLA FL MR\1978BT11\1978BT11TestReport\_Rev.doc

## EMC EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
3-Meter Semi-Anechoic Chamber	Panashield	N/A	N/A	Listed 5/10/10	5/10/12
AC Voltmeter	HP	400FL	2213A14499	CAL 6/12/11	6/12/13
Antenna: Active Loop	ETS-Lindgren	6502	00062529	CAL 9/23/10	9/23/12
Frequency Counter	HP	5385A	2730A03025	CAL 8/17/11	8/17/13
Hygro-Thermometer	Extech	445703	0602	CAL 6/15/11	6/15/13
Modulation Analyzer	HP	8901A	3435A06868	CAL 7/18/11	7/18/13
Digital Multimeter	Fluke	FLUKE-77	35053830	CAL 9/9/11	9/9/13
Analyzer Tan Tower Preamplifier	HP	8449B-H02	3008A00372	CAL 11/21/09	11/21/11
Analyzer Tan Tower Quasi-Peak Adapter	HP	85650A	3303A01690	CAL 11/22/09	11/22/11
Analyzer Tan Tower RF Preselector	HP	85685A	3221A01400	CAL 11/21/09	11/21/11
Analyzer Tan Tower Spectrum Analyzer	HP	8566B Opt 462	3138A07786 3144A20661	CAL 11/24/09	11/24/11
Temperature Chamber	Tenney Engineering	TTRC	11717-7	CHAR 4/25/10	4/25/12
Antenna	ETS	3117	41534	9/22/2010	9/22/2012
Antenna	Electrometrics	LPA-25	1122	5/04/2011	5/04/2013
Antenna	Electrometrics	BIA-25	1171	1/15/2010	1/15/2012

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 REPORT: Z:\M\MOTOROLA FL MR\1978BT11\1978BT11TestReport\_Rev.doc

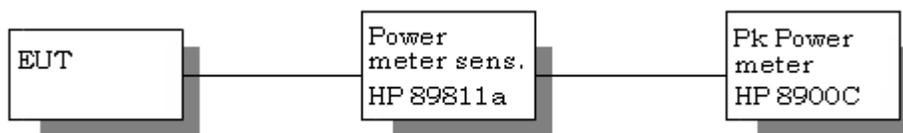
## TEST PROCEDURES

**POWER LINE CONDUCTED INTERFERENCE:** The procedure used was ANSI C63.4-2003 using a 50uH LISN. Both lines were observed with the DUT transmitting. The resolution bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

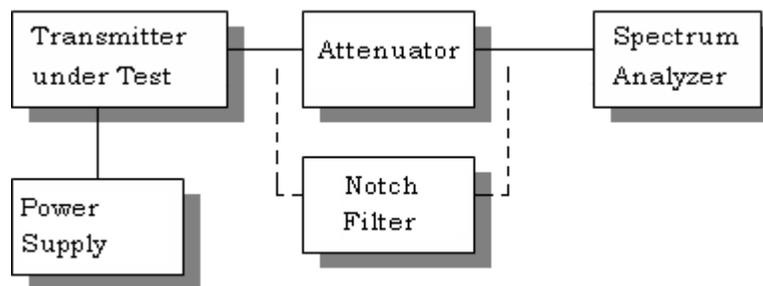
**BANDWIDTH 20 dB:** The measurements were made with the spectrum analyzer's resolution bandwidth (RBW) = 1 MHz and the video bandwidth (VBW) = 3 MHz and the span set as shown on plot.

**RF Power Output:** The RF power output was measured at the antenna feed point using a peak power meter.

Output Power Test Setup Diagram



**ANTENNA CONDUCTED EMISSIONS:** The RBW = 100 kHz, VBW = 300 kHz and the span set to 10.0 MHz and the spectrum was scanned from 30 MHz to the 10<sup>th</sup> Harmonic of the fundamental. Above 1 GHz the resolution bandwidth was 1 MHz and the VBW = 3 MHz and the span to 50 MHz. Power was measured by disconnecting the antennas and measuring across a 50 ohm load as recommended by the manufacturer using a peak power meter. The antenna is non-directional and doesn't exceed 6 dBi gain. The power output was measured at three places in the band highest is reported below.





**RADIATION INTERFERENCE:** The test procedure used was ANSI C63.4-2003 using an Agilent spectrum receiver with preselector. The bandwidth (RBW) of the spectrum receiver was 100 kHz up to 1 GHz and 1 MHz above 1 GHz with an appropriate sweep speed. The VBW above 1 GHz was 3 MHz. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

**RADIATED SPURIOUS EMISSIONS INTO ADJACENT RESTRICTED BAND:** An in band field strength measurement of the fundamental emission using the RBW and detector function required by ANSI C63.4-2003 and the FCC rules.

APPLICANT: MOTOROLA SOLUTIONS, INC.  
FCC ID: AZ489FT4905, IC: 109U-89FT4905  
MODEL: H51QDH9PW7AN (MUE3775)  
REPORT: Z:\M\MOTOROLA FL MR\1978BT11\1978BT11TestReport\_Rev.doc

**POWER LINE CONDUCTED INTERFERENCE**

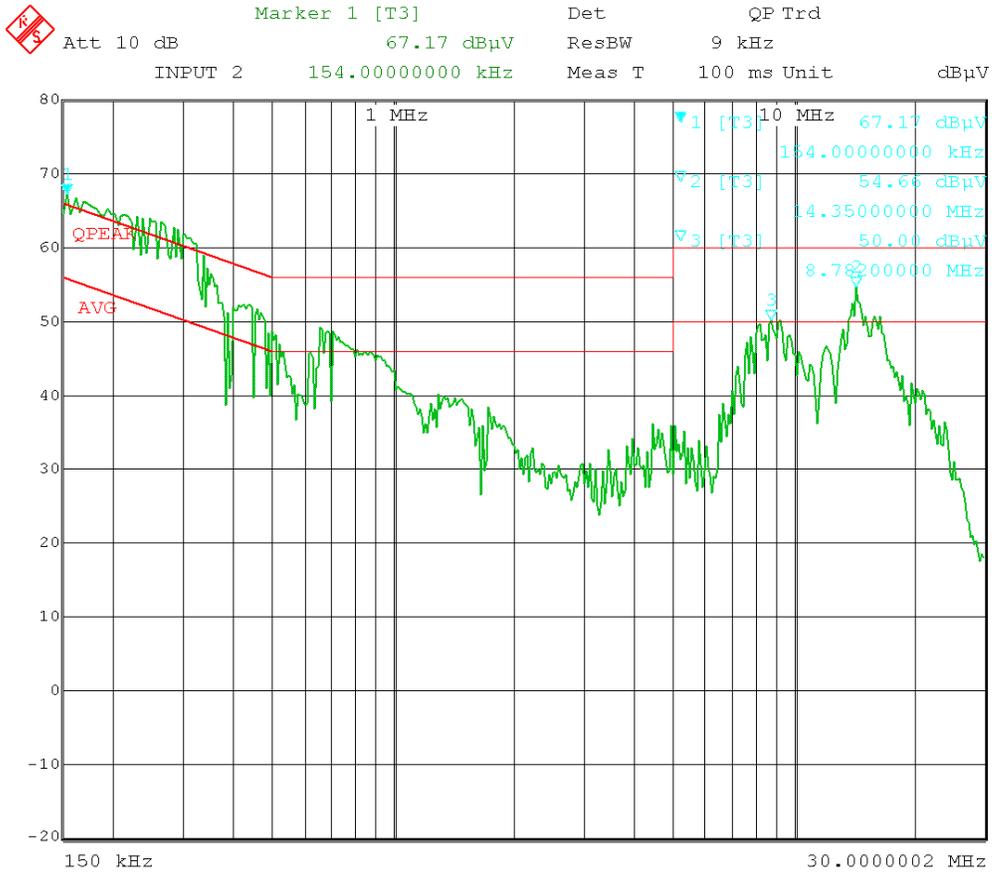
**RULES PART NO.:** 15.207

**REQUIREMENTS:**

Emission Frequency (MHz)	Conducted Limit (dBμV)	
	Quasi-peak (QP)	Average (AV)
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.		

**TEST DATA:** The following plots represent the emissions read for power line conducted. Both lines were observed

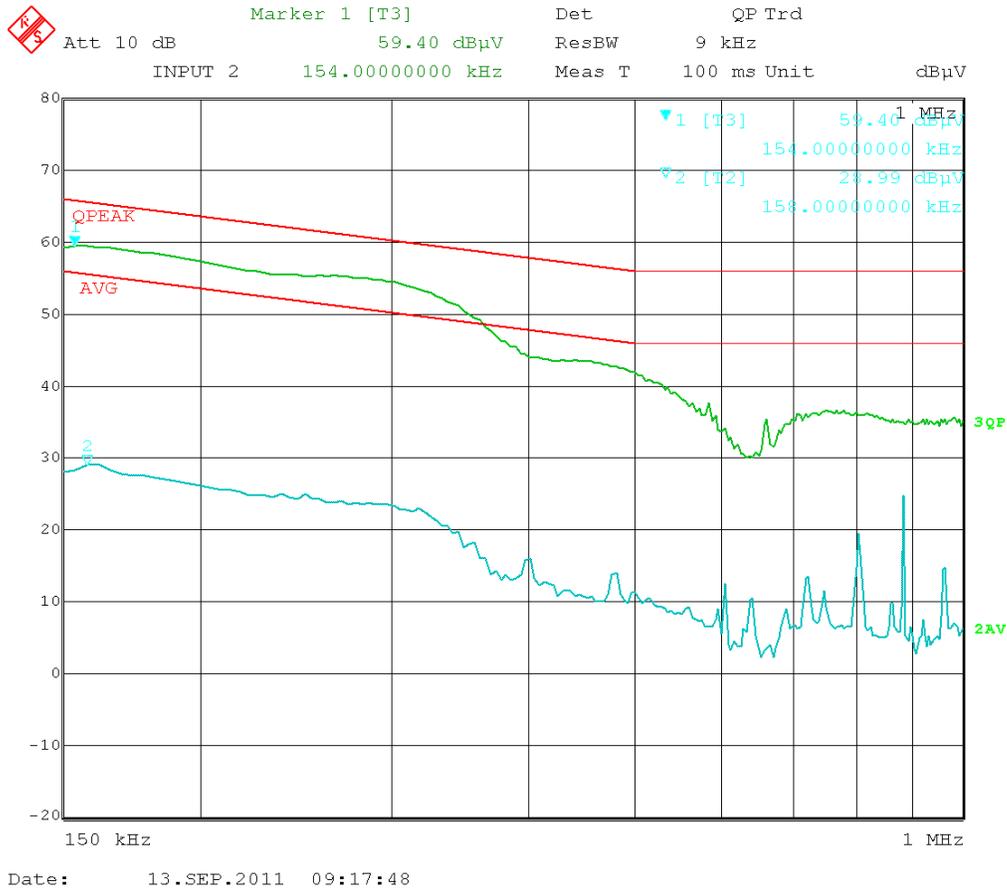
POWERLINE CONDUCTED EMISSIONS LINE 1(Peak)



Date: 13.SEP.2011 08:58:18

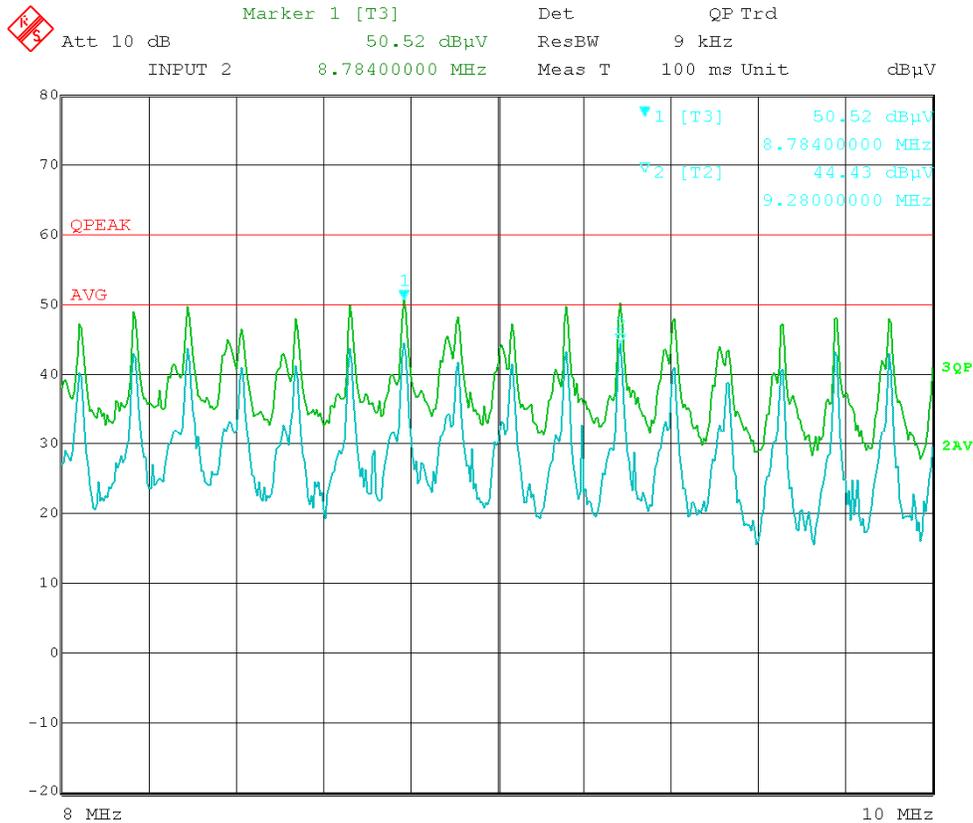
APPLICANT: MOTOROLA SOLUTIONS, INC.  
 FCC ID: AZ489FT4905, IC: 109U-89FT4905  
 MODEL: H51QDH9PW7AN (MUE3775)  
 REPORT: Z:\M\MOTOROLA FL MR\1978BT11\1978BT11TestReport\_Rev.doc

POWERLINE CONDUCTED EMISSIONS – LINE 1 (QUASI PEAK AND AVERAGING) A



APPLICANT: MOTOROLA SOLUTIONS, INC.  
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 MODEL: H51QDH9PW7AN (MUE3775)  
 REPORT: Z:\M\MOTOROLA FL MR\1978BT11\1978BT11TestReport\_Rev.doc

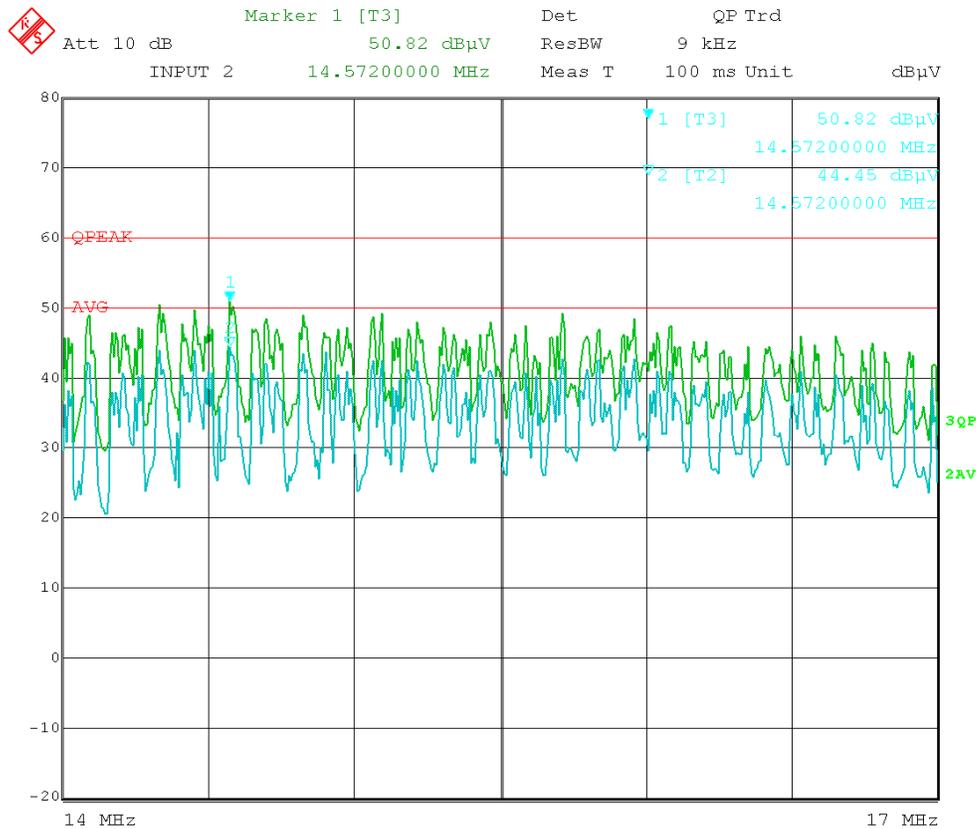
POWERLINE CONDUCTED EMISSIONS – LINE 1 (QUASI PEAK AND AVERAGING) B



Date: 13.SEP.2011 10:08:06

APPLICANT: MOTOROLA SOLUTIONS, INC.  
 FCC ID: AZ489FT4905, IC: 109U-89FT4905  
 MODEL: H51QDH9PW7AN (MUE3775)  
 REPORT: Z:\M\MOTOROLA FL MR\1978BT11\1978BT11TestReport\_Rev.doc

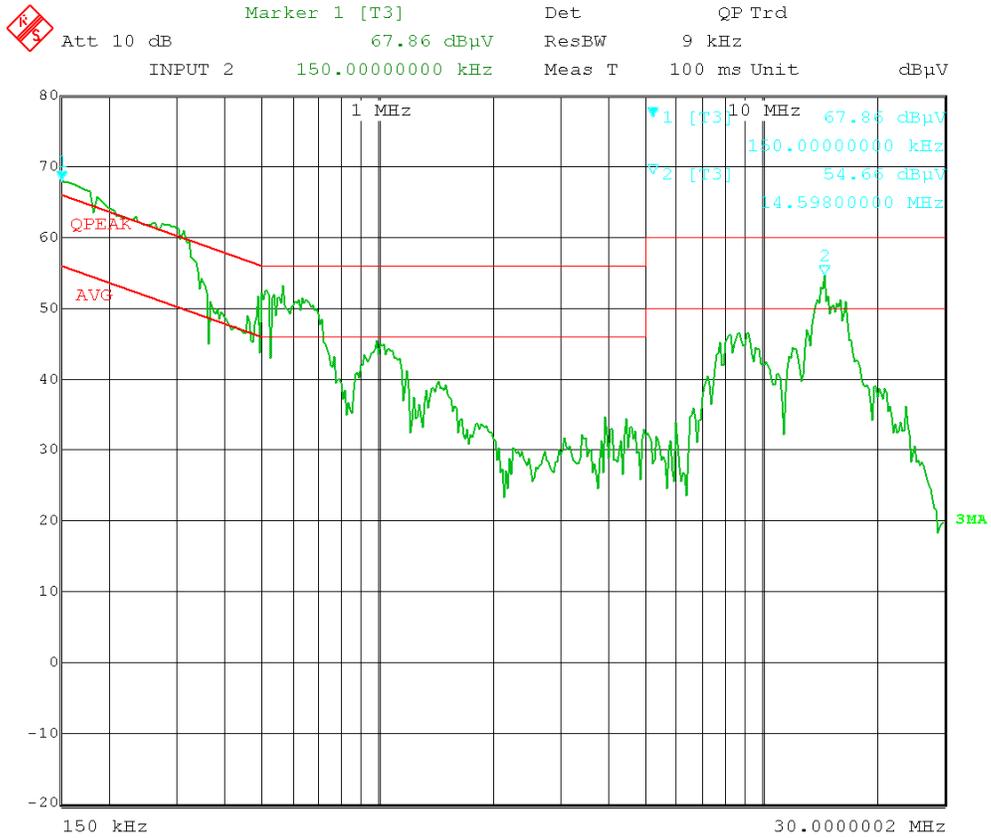
POWERLINE CONDUCTED EMISSIONS – LINE 1 (QUASI PEAK AND AVERAGING) C



Date: 13.SEP.2011 09:39:12

APPLICANT: MOTOROLA SOLUTIONS, INC.  
 FCC ID: AZ489FT4905, IC: 109U-89FT4905  
 MODEL: H51QDH9PW7AN (MUE3775)  
 REPORT: Z:\M\MOTOROLA FL MR\1978BT11\1978BT11TestReport\_Rev.doc

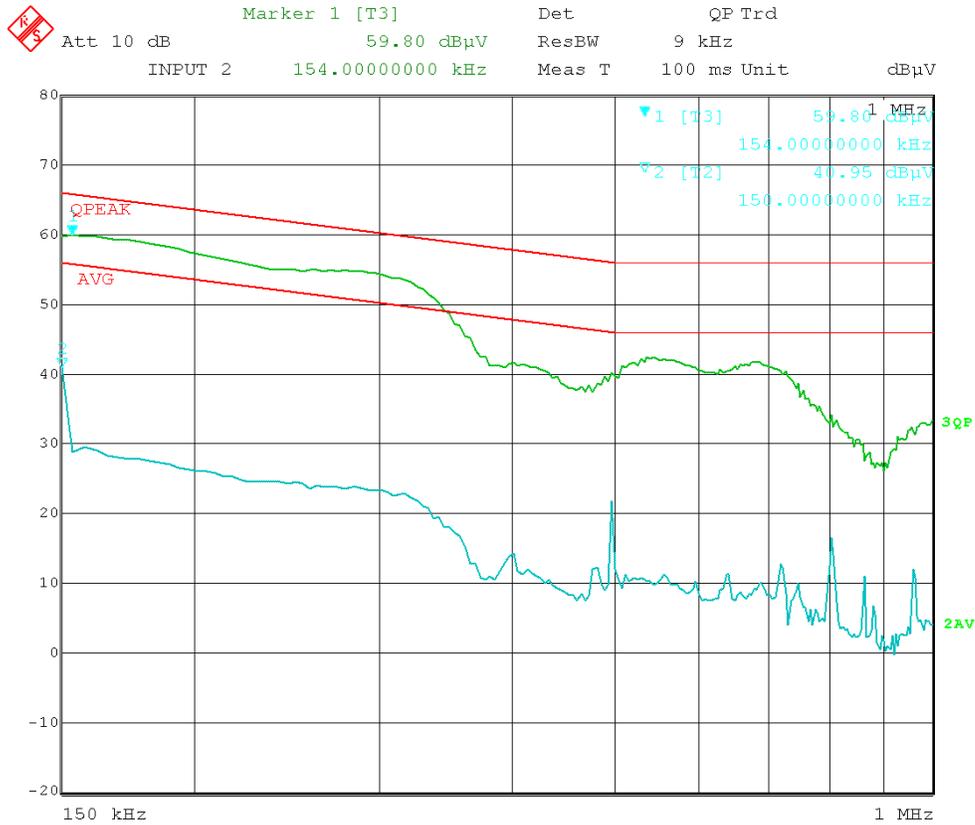
POWERLINE CONDUCTED EMISSIONS LINE 2 (Peak)



Date: 13.SEP.2011 09:07:06

APPLICANT: MOTOROLA SOLUTIONS, INC.  
 FCC ID: AZ489FT4905, IC: 109U-89FT4905  
 MODEL: H51QDH9PW7AN (MUE3775)  
 REPORT: Z:\M\MOTOROLA FL MR\1978BT11\1978BT11TestReport\_Rev.doc

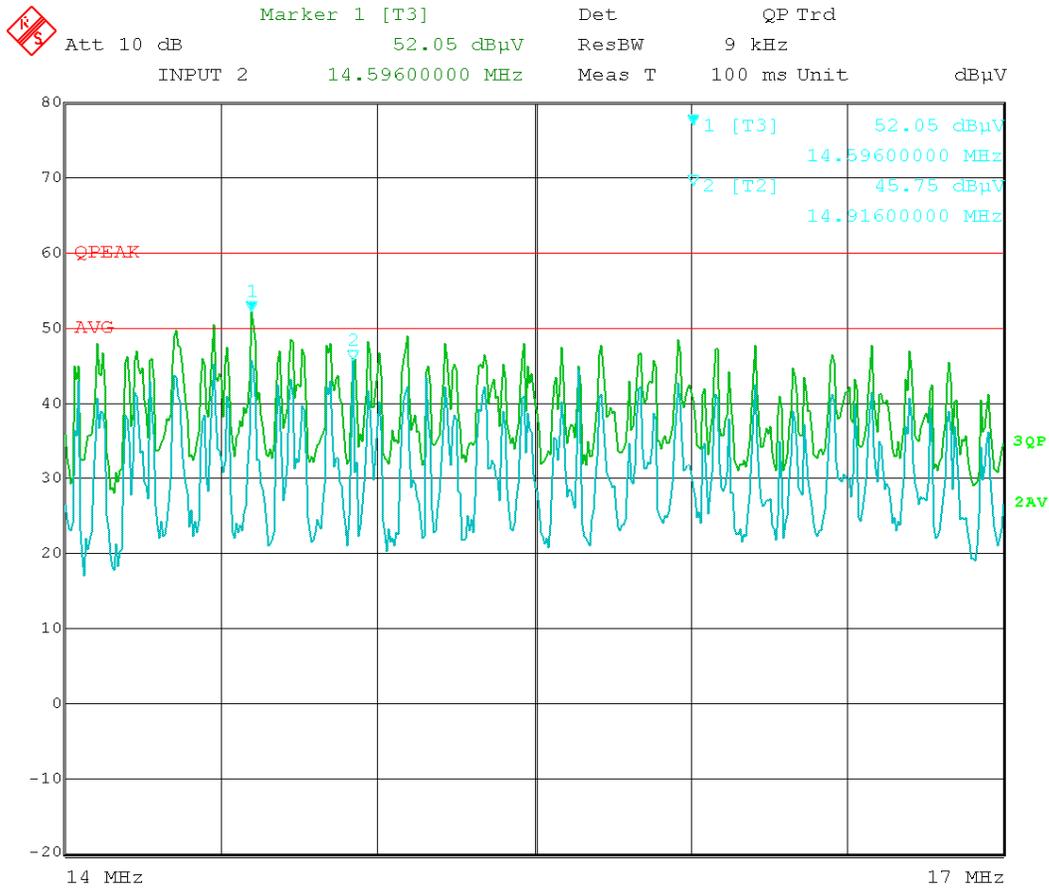
POWERLINE CONDUCTED EMISSIONS – LINE 2 (QUASI PEAK AND AVERAGING) A



Date: 13.SEP.2011 09:12:46

APPLICANT: MOTOROLA SOLUTIONS, INC.  
 FCC ID: AZ489FT4905, IC: 109U-89FT4905  
 MODEL: H51QDH9PW7AN (MUE3775)  
 REPORT: Z:\M\MOTOROLA FL MR\1978BT11\1978BT11TestReport\_Rev.doc

POWERLINE CONDUCTED EMISSIONS – LINE 2 (QUASI PEAK AND AVERAGING) B



Date: 13.SEP.2011 09:51:22

APPLICANT: MOTOROLA SOLUTIONS, INC.  
 FCC ID: AZ489FT4905, IC: 109U-89FT4905  
 MODEL: H51QDH9PW7AN (MUE3775)  
 REPORT: Z:\M\MOTOROLA FL MR\1978BT11\1978BT11TestReport\_Rev.doc

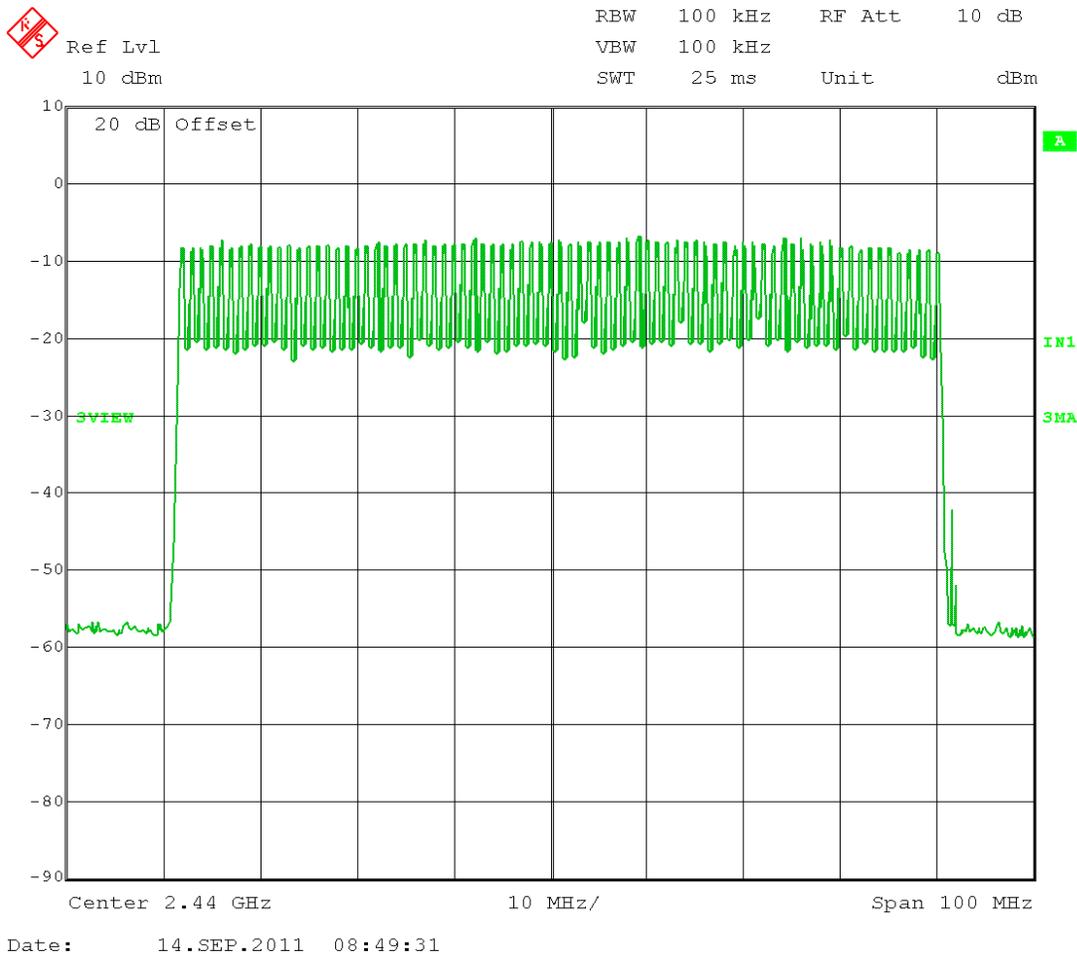
## NUMBER OF HOPPING CHANNELS

**Rules Part No.:** 15.247(a)(1), RSS-210

### Requirements:

902-928 MHz	If the 20 dB bandwidth is < 250 kHz, the system shall use at least 50 hopping frequencies.
	If the 20 dB bandwidth is 250 kHz or greater, the system shall use at least 25 hopping frequencies.
2400-2483.5 MHz	At least 15 channels
5725-5850 MHz	At least 75 channels

**Test Data:** There are 79 hopping channels



APPLICANT: MOTOROLA SOLUTIONS, INC.  
 FCC ID: AZ489FT4905, IC: 109U-89FT4905  
 MODEL: H51QDH9PW7AN (MUE3775)  
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**DWELL TIME OF A HOPPING CHANNEL**

**RULES PART NO.:** 15.247(a)(1)(i)

**REQUIREMENTS:**

902-928 MHz	If the 20 dB bandwidth is < 250 kHz, average time of occupancy of any frequency shall not exceed 0.4 sec in 20 seconds.
	If the 20 dB bandwidth is 250 kHz or greater, dwell time < = 0.4 seconds n a 10 second period.
2400-2483.5 MHz	< = 0.4 seconds in a 0.4 seconds multiplied the number of hopping channels employed.
5725-5850 MHz	< = 0.4 seconds in a 30 second period.

Set the EUT for DH5, DH3 and DH1 packet transmitting.  
The Dwell Time can be calculated as follows:

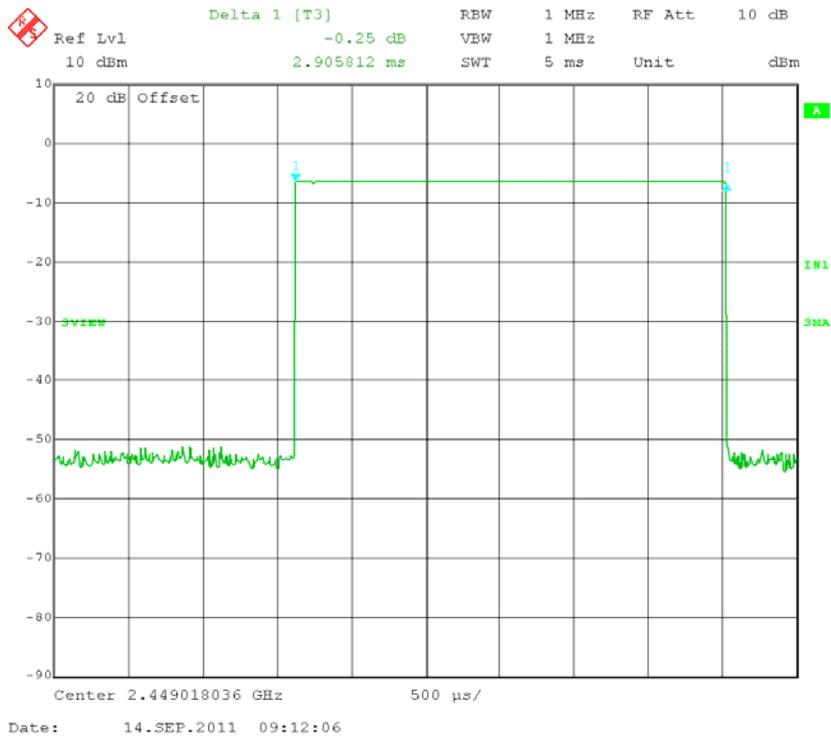
Data Packet	Dwell Time(s)
DH5	$1600/79/6*31.6*(MkrDelta)/1000$
DH3	$1600/79/4*31.6*(MkrDelta)/1000$
DH1	$1600/79/2*31.6*(MkrDelta)/1000$

**Note :** Mkr Delta is once pulse time .

**TEST DATA:** Three places in the band were measured and the worst case presented.

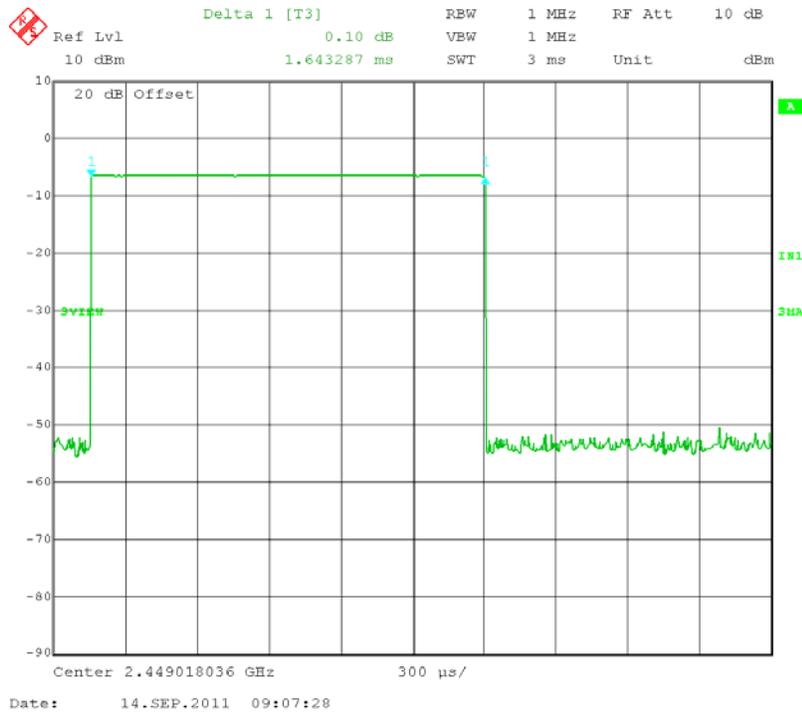
Frequency (MHz)	Data Packet	Marker Delta (ms)	Dwell Time (s)	Limits (s)
2441	DH5	2.906	0.310	0.400
2441	DH3	1.643	0.263	0.400
2441	DH1	0.393	0.126	0.400

Channel 00 2402 MHz DH5:

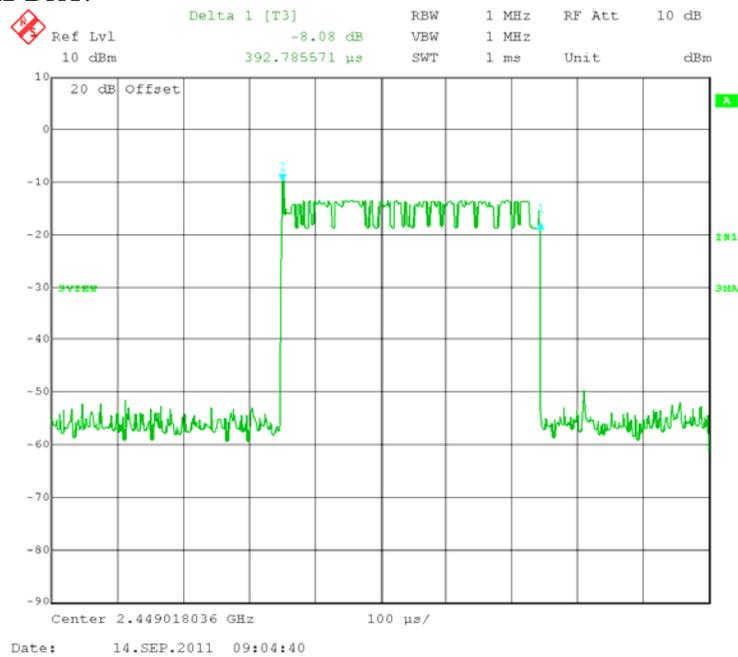


APPLICANT: MOTOROLA SOLUTIONS, INC.  
 FCC ID: AZ489FT4905, IC: 109U-89FT4905  
 MODEL: H51QDH9PW7AN (MUE3775)  
 REPORT: Z:\M\MOTOROLA FL MR\1978BT11\1978BT11TestReport\_Rev.doc

Channel 00 2402 MHz DH3:



Channel 00 2402 MHz DH1:



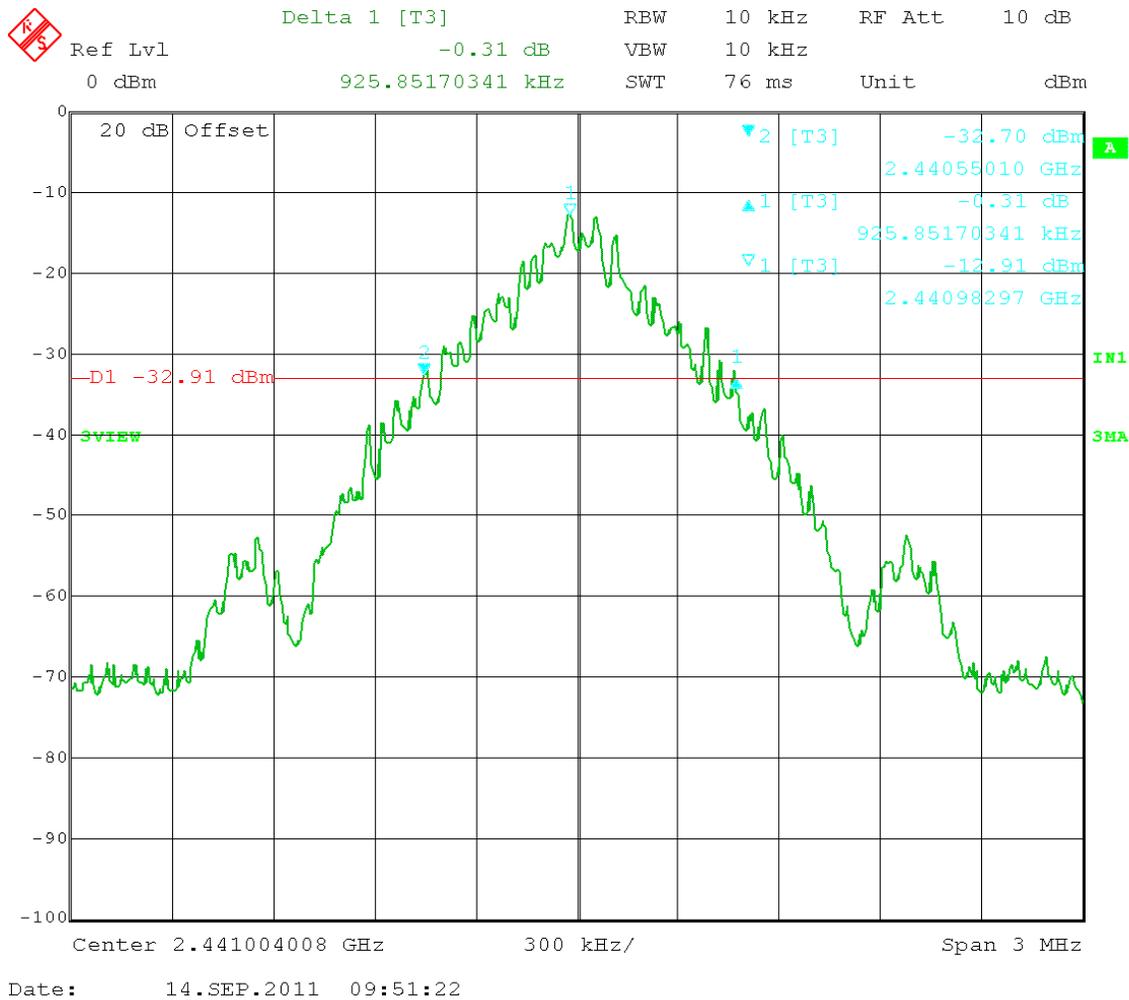
APPLICANT: MOTOROLA SOLUTIONS, INC.  
 FCC ID: AZ489FT4905, IC: 109U-89FT4905  
 MODEL: H51QDH9PW7AN (MUE3775)  
 REPORT: Z:\M\MOTOROLA FL MR\1978BT11\1978BT11TestReport\_Rev.doc

## 20 dB BANDWIDTH

**RULES PART NO.:** 15.247(a)(2), RSS-210

**REQUIREMENTS:** The 20 dB bandwidth must be less than 1 MHz.

**TEST DATA:** See the following plot(s). 926 kHz



Three places in the band were measured and the worst case presented above.

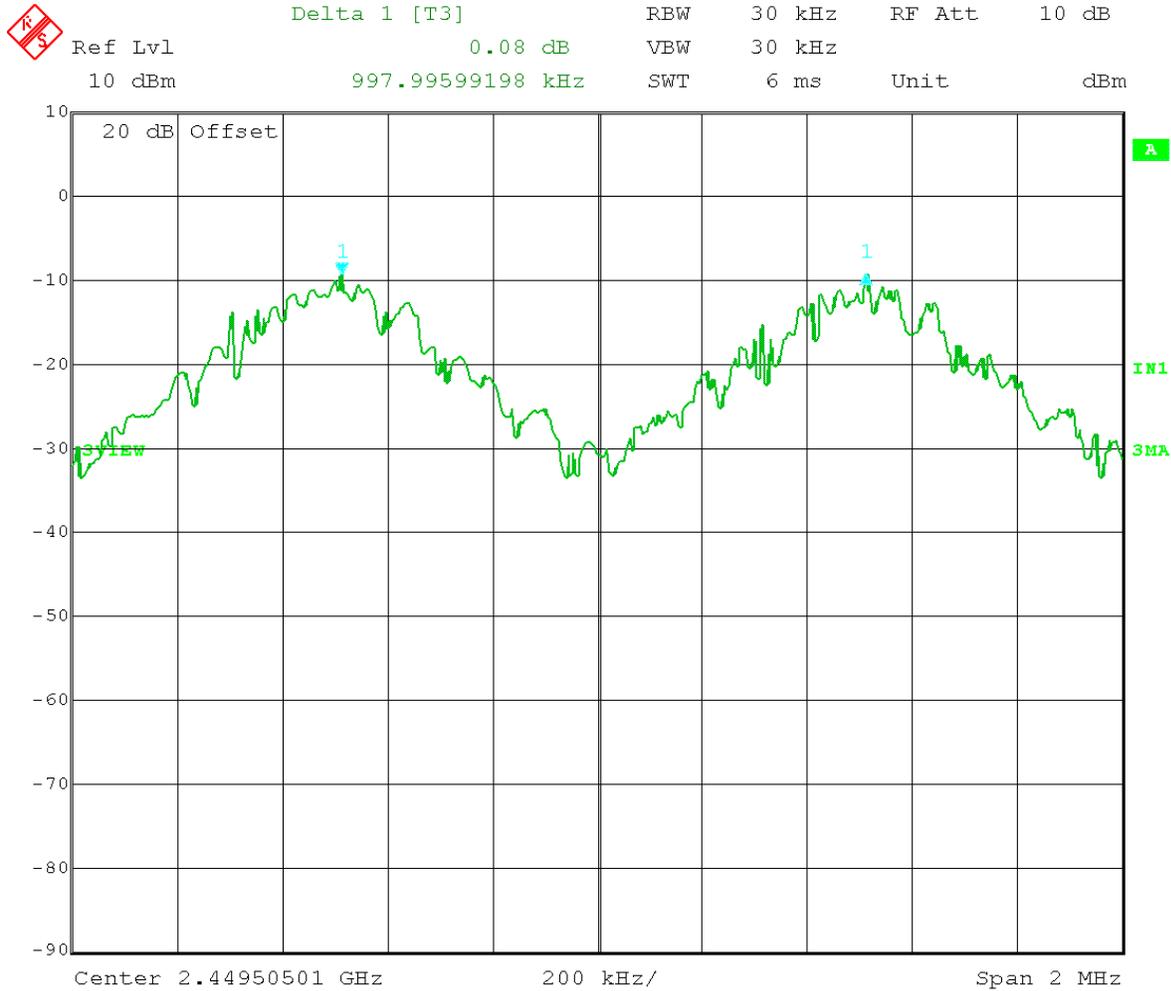
APPLICANT: MOTOROLA SOLUTIONS, INC.  
 FCC ID: AZ489FT4905, IC: 109U-89FT4905  
 MODEL: H51QDH9PW7AN (MUE3775)  
 REPORT: Z:\M\MOTOROLA FL MR\1978BT11\1978BT11TestReport\_Rev.doc

### CARRIER FREQUENCY SEPARATION

**RULES PART NO.:** 15.247(a)(2)

**REQUIREMENTS:** The hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

**TEST DATA:** See the following plot. 998 kHz



Date: 14.SEP.2011 08:53:49

APPLICANT: MOTOROLA SOLUTIONS, INC.  
 FCC ID: AZ489FT4905, IC: 109U-89FT4905  
 MODEL: H51QDH9PW7AN (MUE3775)  
 REPORT: Z:\M\MOTOROLA FL MR\1978BT11\1978BT11TestReport\_Rev.doc

## POWER OUTPUT

**Rules Part No.:** 15.247(b)

**Requirements:** The maximum peak output power shall not exceed 1 watt (30 dBm). If directional transmitting antennas with a gain of more than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

**Test Data:** The device under test has an integral antenna and the power was measured on a radiated basis.

Frequency MHz	Power (EIRP) mW
2,402.00	9.5
2,441.00	12.3
2,480.00	9.5

APPLICANT: MOTOROLA SOLUTIONS, INC.  
FCC ID: AZ489FT4905, IC: 109U-89FT4905  
MODEL: H51QDH9PW7AN (MUE3775)  
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## **SPURIOUS EMISSIONS AT ANTENNA TERMINALS**

**RULES PART NO.:** 15.247(c)

**REQUIREMENTS:** Emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.

Note: The spectrum was scanned to the tenth harmonic.

### **TEST DATA**

N/A, Device has permanently attached antenna and no antenna connector.

APPLICANT: MOTOROLA SOLUTIONS, INC.  
FCC ID: AZ489FT4905, IC: 109U-89FT4905  
MODEL: H51QDH9PW7AN (MUE3775)  
REPORT: Z:\M\MOTOROLA FL MR\1978BT11\1978BT11TestReport\_Rev.doc

**FIELD STRENGTH OF SPURIOUS EMISSIONS**

**RULES PART NO.:** 15.247(c), 15.205 & 15.209(b)

**REQUIREMENTS:**

§15.247(c)& §15.205	
(Fundamental) Frequency	(Field Strength) Limits
902 – 928MHz 2.4 – 2.4835GHz	127.37dBuV/m
§15.209	
30 - 88 MHz	40 dBµV/m @3M
88 -216 MHz	43.5 dBµV/m @3M
216 -960 MHz	46 dBµV/m @3M
ABOVE 960 MHz	54dBuV/m

Emissions that fall in the restricted bands (15.205) must be less than or equal to 500 µV/m (54 dB µV/m). Spurious not in a restricted band must be 20 dBc. Emissions below 30 MHz when found were measured using a loop antenna.

**Test Data:** All values are peak unless noted.

Items mark with an \* designate a frequency in a restricted band.

Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBµV	Ant. Polarity		Coax Loss dB	Correction Factor dB/m	Field Strength dBµV/m	Margin dB
2,402.00	2,402.00	68.6	H		3.18	32.48	104.26	23.12
2,402.00	2,402.00	69.4	V		3.18	32.48	105.06	22.32
2,402.00	4,804.00	7.9	H	*	4.9	33.96	46.76	7.24
2,402.00	4,804.00	10.9	V	*	4.9	33.96	49.76	4.24
2,402.00	7,206.00	6.1	H		5.72	35.66	47.48	37.58
2,402.00	7,206.00	6.7	V		5.72	35.66	48.08	36.98
2,402.00	9,608.00	6.8	H		6.78	36.81	50.39	34.67
2,402.00	9,608.00	7	V		6.78	36.81	50.59	34.47
2,402.00	12,010.00	5.1	V	*	7.81	38.91	51.82	2.18
2,402.00	12,010.00	5.4	H	*	7.81	38.91	52.12	1.88
2,441.00	2,441.00	68.8	H		3.21	32.53	104.54	22.84
2,441.00	2,441.00	70.4	V		3.21	32.53	106.14	21.24

APPLICANT: MOTOROLA SOLUTIONS, INC.

FCC ID: AZ489FT4905, IC: 109U-89FT4905

MODEL: H51QDH9PW7AN (MUE3775)

REPORT: Z:\M\MOTOROLA FL MR\1978BT11\1978BT11TestReport\_Rev.doc

**Test Data Continue:**

Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBμV	Ant. Polarity		Coax Loss dB	Correction Factor dB/m	Field Strength dBμV/m	Margin dB
2,441.00	4,882.00	7.9	H	*	4.94	33.98	46.82	7.18
2,441.00	4,882.00	13.3	V	*	4.94	33.98	52.22	1.78
2,441.00	7,323.00	5.6	H	*	5.79	35.64	47.03	6.97
2,441.00	7,323.00	6.4	V	*	5.79	35.64	47.83	6.17
2,441.00	9,764.00	4.4	H		6.83	36.96	48.19	37.95
2,441.00	9,764.00	5.5	V		6.83	36.96	49.29	36.85
2,441.00	12,205.00	4.3	H	*	7.94	39.06	51.3	2.7
2,441.00	12,205.00	4.6	V	*	7.94	39.06	51.6	2.4
2,480.00	2,480.00	68	H		3.24	32.58	103.82	23.56
2,480.00	2,480.00	69.2	V		3.24	32.58	105.02	22.36
2,480.00	4,960.00	9.7	H	*	4.98	33.99	48.67	5.33
2,480.00	4,960.00	13.1	V	*	4.98	33.99	52.07	1.93
2,480.00	7,440.00	6.8	H	*	5.86	35.61	48.27	5.73
2,480.00	7,440.00	7.9	V	*	5.86	35.61	49.37	4.63
2,480.00	9,920.00	5.6	H		6.88	37.12	49.6	35.42
2,480.00	9,920.00	7.5	V		6.88	37.12	51.5	33.52
2,480.00	12,400.00	5.3	V	*	8.08	39.22	52.6	1.4
2,480.00	12,400.00	5.8	H	*	8.08	39.22	53.1	0.9

The spectrum was measured from 9 kHz or the lowest frequency used to the tenth harmonic of the highest transmit frequency. If the margin was > 20 dB then those emissions were not reported.

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 MODEL: H51QDH9PW7AN (MUE3775)  
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## **RADIATED SPURIOUS EMISSIONS INTO ADJACENT RESTRICTED BAND**

**REQUIREMENTS:** Emissions that fall in the restricted bands (15.205). These emissions must be less than or equal to 500  $\mu\text{V}/\text{m}$  (54  $\text{dB}\mu\text{V}/\text{m}$ ). Emissions not in the restricted band must be 20  $\text{dBc}$ .

**TEST DATA:** The plots are presented below.

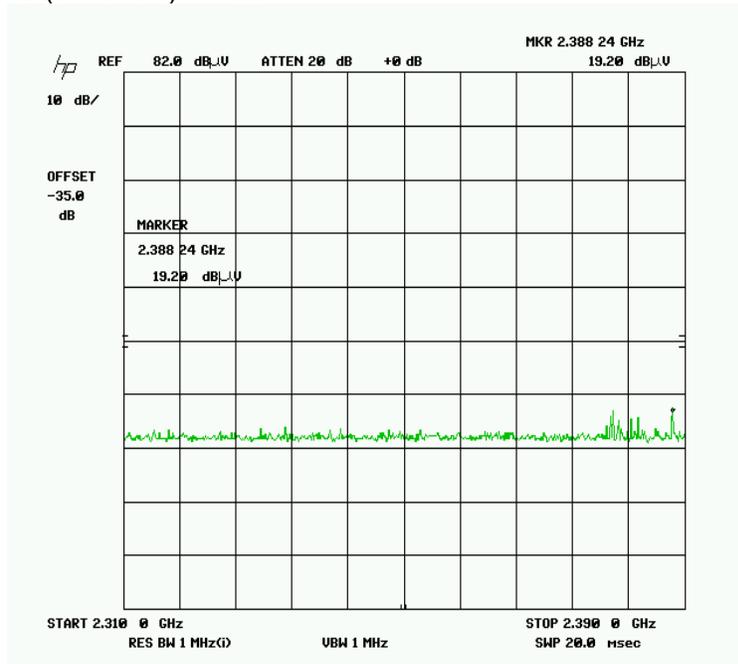
Lower restricted band: test channel 2402 MHz

Lower bandedge: test channel 2402 MHz

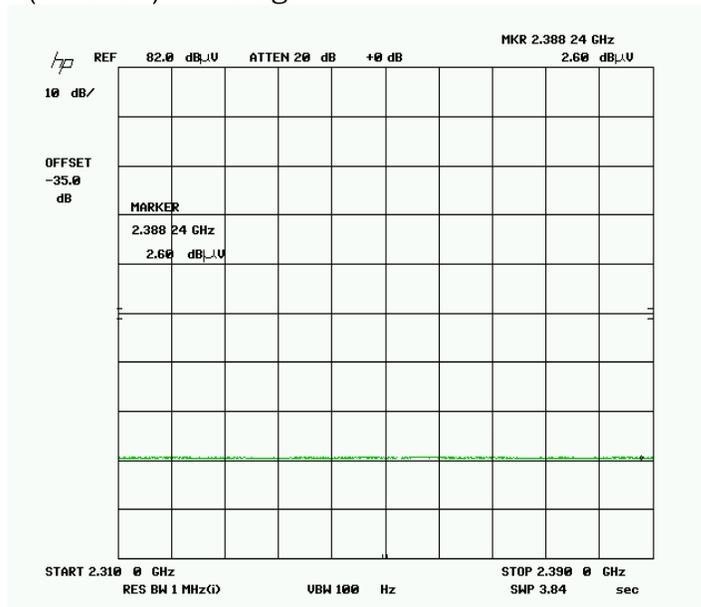
Upper bandedge: test channel 2480 MHz

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Lower restricted band (ch 2402) - Peak



Lower restricted band (ch 2402) - Average

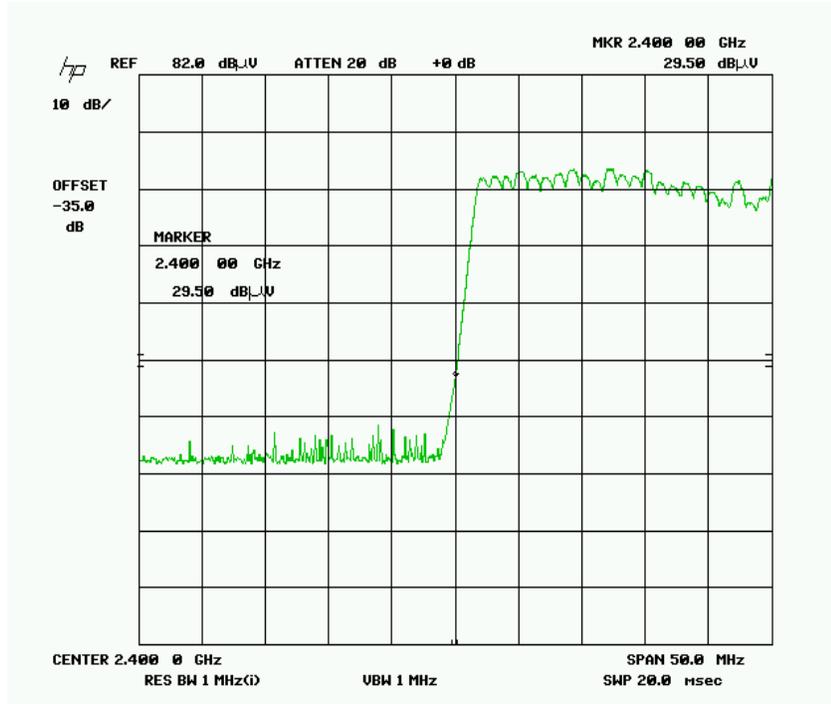


Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBμV	Ant. Pol	Coax Loss dB	Correction Factor dB/m	Field Strength dBμV/m	Margin dB
2,402.00	2,388.24	19.2	V	3.17	32.47	54.84	19.16
2,402.00	2,388.24	2.6	V	3.17	32.47	38.24	15.76

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Lower bandedge (ch 2402) - Peak

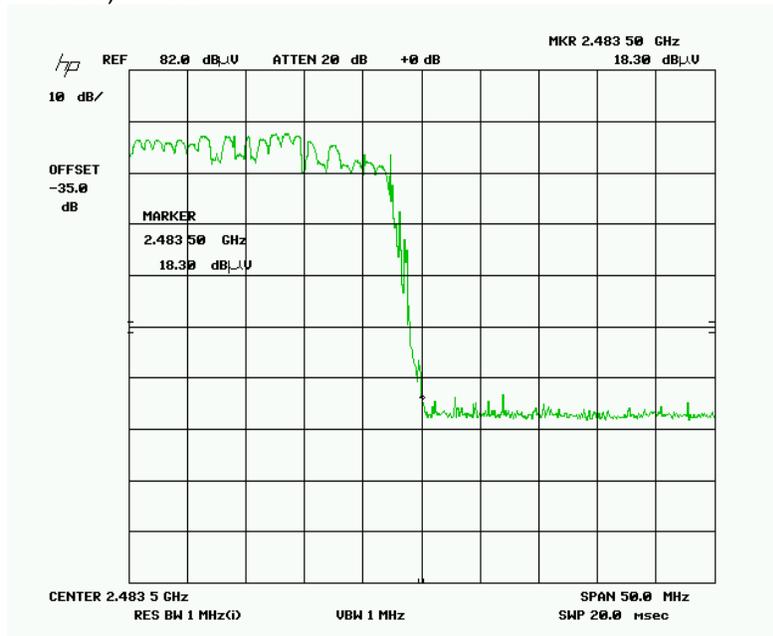
Meets 20 dBc



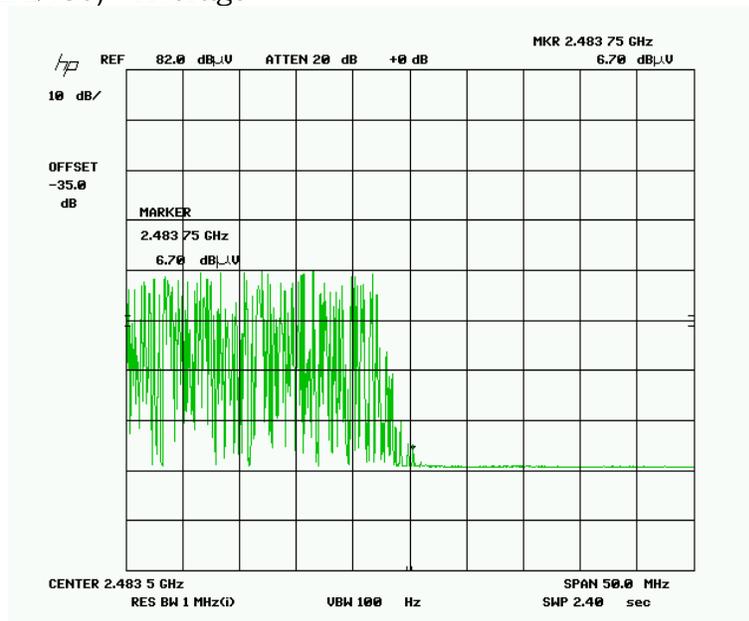
Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBμV	Ant. Pol	Coax Loss dB	Correction Factor dB/m	Field Strength dBμV/m	Margin dB
2,402.00	2,400.00	29.5	V	3.18	32.48	65.16	19.9

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Upper bandedge (ch 2480) - Peak



Upper bandedge (ch 2480) - Average -



Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBμV	Ant. Pol	Coax Loss dB	Correction Factor dB/m	Field Strength dBμV/m	Margin dB
2,480.00	2,483.50	18.3	V	3.24	32.58	54.12	19.88
2,480.00	2,483.50	6.7	V	3.24	32.58	42.52	11.48

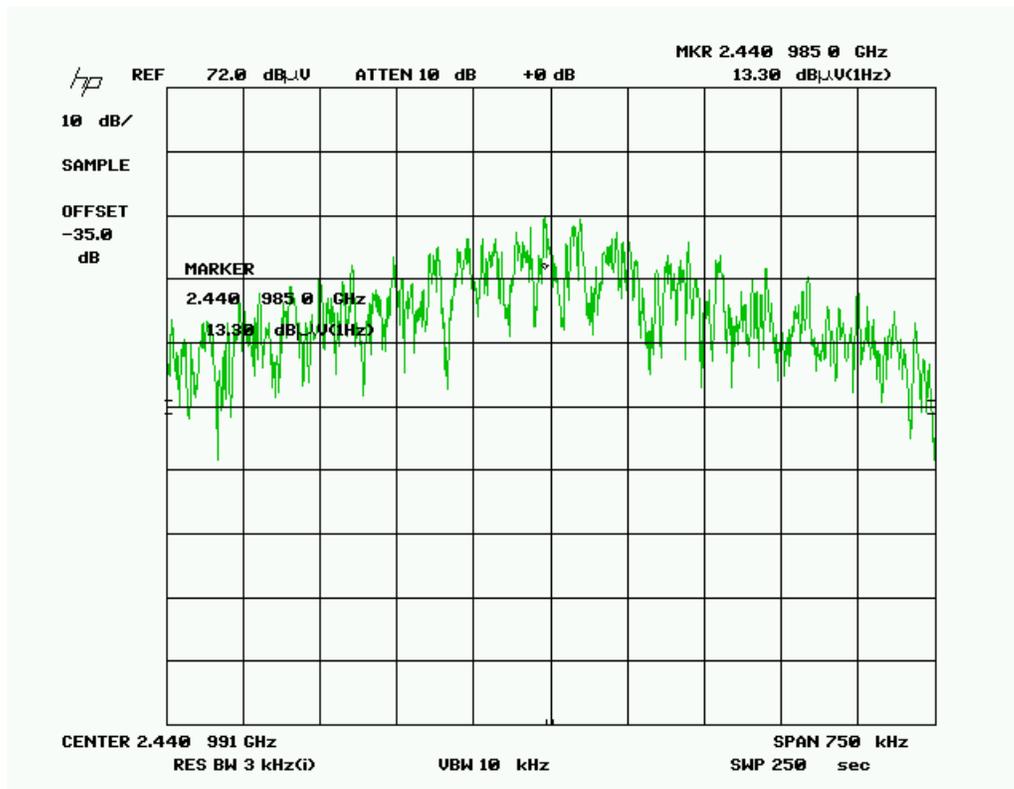
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### POWER SPECTRAL DENSITY

**Rules Part No.:** 15.247(d)

**Requirements:** The peak level measured must be less than +8.0 dBm.

**Test Data:** SEE THE FOLLOWING PLOT(S)



Three places in the band were tested and the worst case presented.

Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBμV	Ant. Pol	Coax Loss dB	Correction Factor dB/m	Field Strength dBμV/m
2,441.00	2,440.98	13.3	V	3.21	32.53	49.04

49.04 dBμV / m  
+35 dB CF for 1 Hz to 3 kHz RBW  
 84.04 dBμV

-11.2 dBm converted from a EIRP value then to conducted in dBm.

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