



**Nemko Test Report:** 2015\_281257B\_FCC\_15247

**Applicant:** HM Electronics, Inc.  
14110 Stowe Drive  
Poway, CA 92064  
USA


**Equipment Under Test:  
(E.U.T.)** BP2G4A

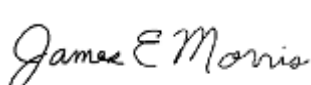
**FCC Identifier:** BYMBP2G4A

**IC Identifier:** 1860A-BP2G4A

**In Accordance With:** **FCC Part 15, Subpart C, 15.247 and  
Industry Canada RSS-210, Issue 8**  
Frequency Hopping Transmitters

**Tested By:** Nemko USA, Inc.  
2210 Faraday Ave. Ste 150  
Carlsbad, CA 92008  
USA

**TESTED BY:**  **DATE:** 22 March 2015  
David Light, Wireless Engineer

**APPROVED BY:**  **DATE:** 30 March 2015  
Jim Morris, EMC Manager

**Total Number of Pages: 57**

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**Section 1. Summary of Test Results**

Manufacturer: HM Electronics, Inc.

Model No.: BP2G4A

Serial No.: None

General: **All measurements are traceable to national standards.**

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15, Subpart C, Paragraph 15.247 and Industry Canada RSS-210, Issue 8 for Frequency Hopping Spread Spectrum devices. Radiated tests were conducted in accordance with ANSI C63.10: 2013. Radiated emissions are made on an open area test site. A description of the test facility is on file with the FCC and Industry Canada.

- |                                     |                            |                                     |                     |
|-------------------------------------|----------------------------|-------------------------------------|---------------------|
| <input checked="" type="checkbox"/> | New Submission             | <input checked="" type="checkbox"/> | Production Unit     |
| <input type="checkbox"/>            | Class II Permissive Change | <input type="checkbox"/>            | Pre-Production Unit |

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.

See " Summary of Test Data".



NVLAP Lab Code 200116-0

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**Summary Of Test Data**

<b>NAME OF TEST</b>	<b>PARA. NO.</b>	<b>RESULT</b>
Powerline Conducted Emissions	15.207(a) / RSS-Gen 7.2.4	NA
Channel Separation	15.247(a)(1) / RSS-210 A8.1(b)	Complies
Time of Occupancy	15.247(a)(1) / RSS-210 A8.1(d)	Complies
20 dB Occupied Bandwidth	15.247(a)(1) / RSS-210 A8.1(a)	Complies
Peak Power Output	15.247(b) / RSS-210 A8.4(2)	Complies
Spurious Emissions (Conducted)	15.247(d) / RSS-210 A8.5	Complies
Spurious Emissions (Radiated)	15.247(d) / RSS-Gen 7.2.2	Complies

**Footnotes:**

The EUT is powered by a 3.7 V lithium battery.

## **Section 2. Equipment Under Test (E.U.T.)**

### **General Equipment Information**

**Frequency Band:**  902 – 928 MHz  
 2400 – 2483.5 MHz  
 5725 – 5850 MHz

**Operating Frequency Range:** 240~~4~~2 to 2480 MHz

**Number of Channels:** 79

**Channel Spacing:** 1 MHz

**User Frequency Adjustment:** Software controlled

**Software/firmware version:** Ver. 0020

### **Description of EUT**

Wireless Intercom Beltpack used for Pro-Audio Communications

**Section 3. Channel Separation**

NAME OF TEST: Channel Separation	PARA. NO.: 15.247(a)(1)
TESTED BY: David Light	DATE: 17 March 2015

**Test Results:** Complies.

**Measurement Data:** See 20 dB BW plot

Measured 20 dB bandwidth: 0.971 MHz GFSK  
1.3 MHz  $\pi/4$ -DQPSK  
1.3 MHz 8-DPSK  
Channel Separation: 1 MHz

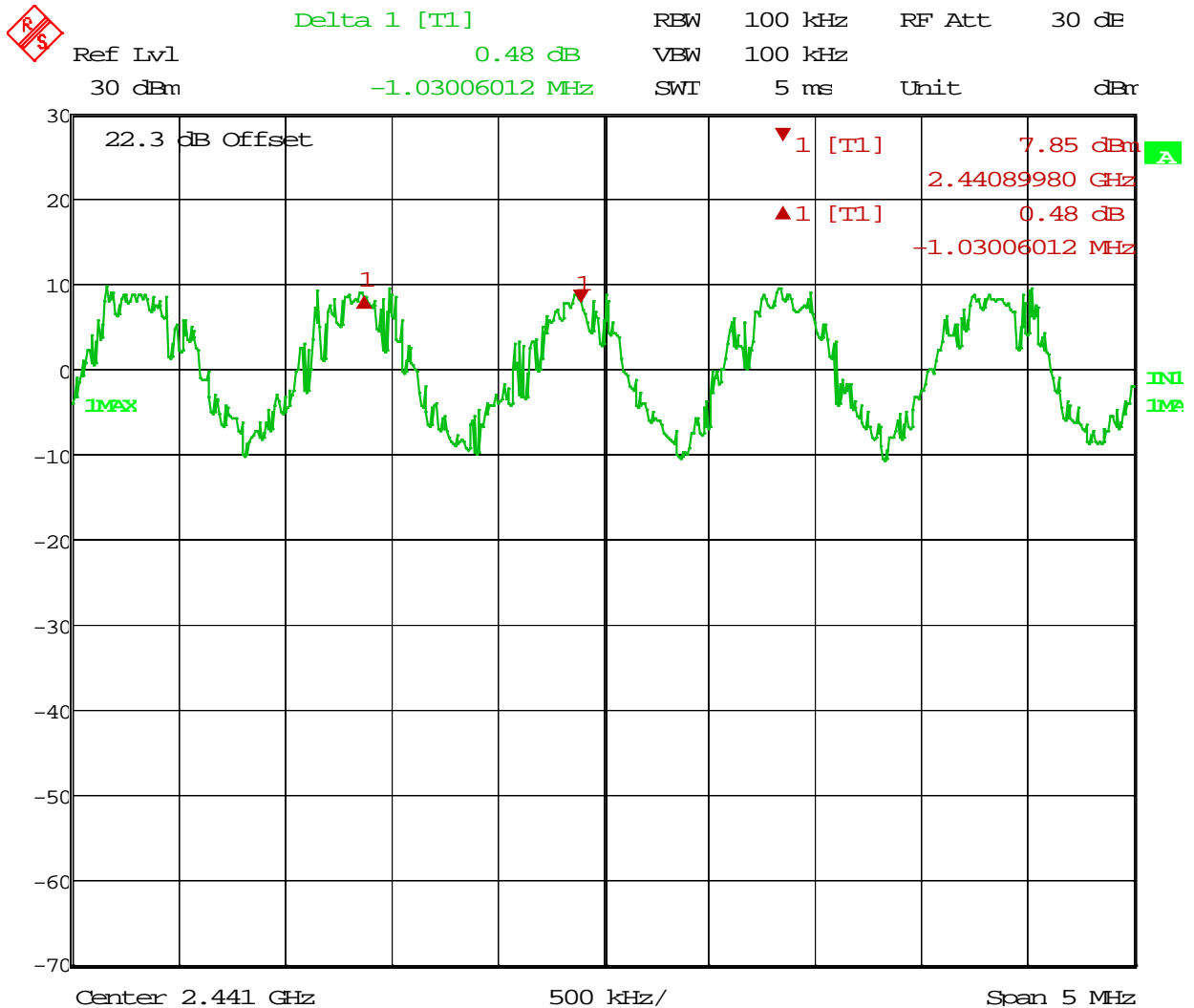
**Equipment Used:** 1036

**Measurement Uncertainty:** 0.20 ms

**Temperature:** 20 °C

**Relative Humidity:** 30 %

Test Data – Channel Separation



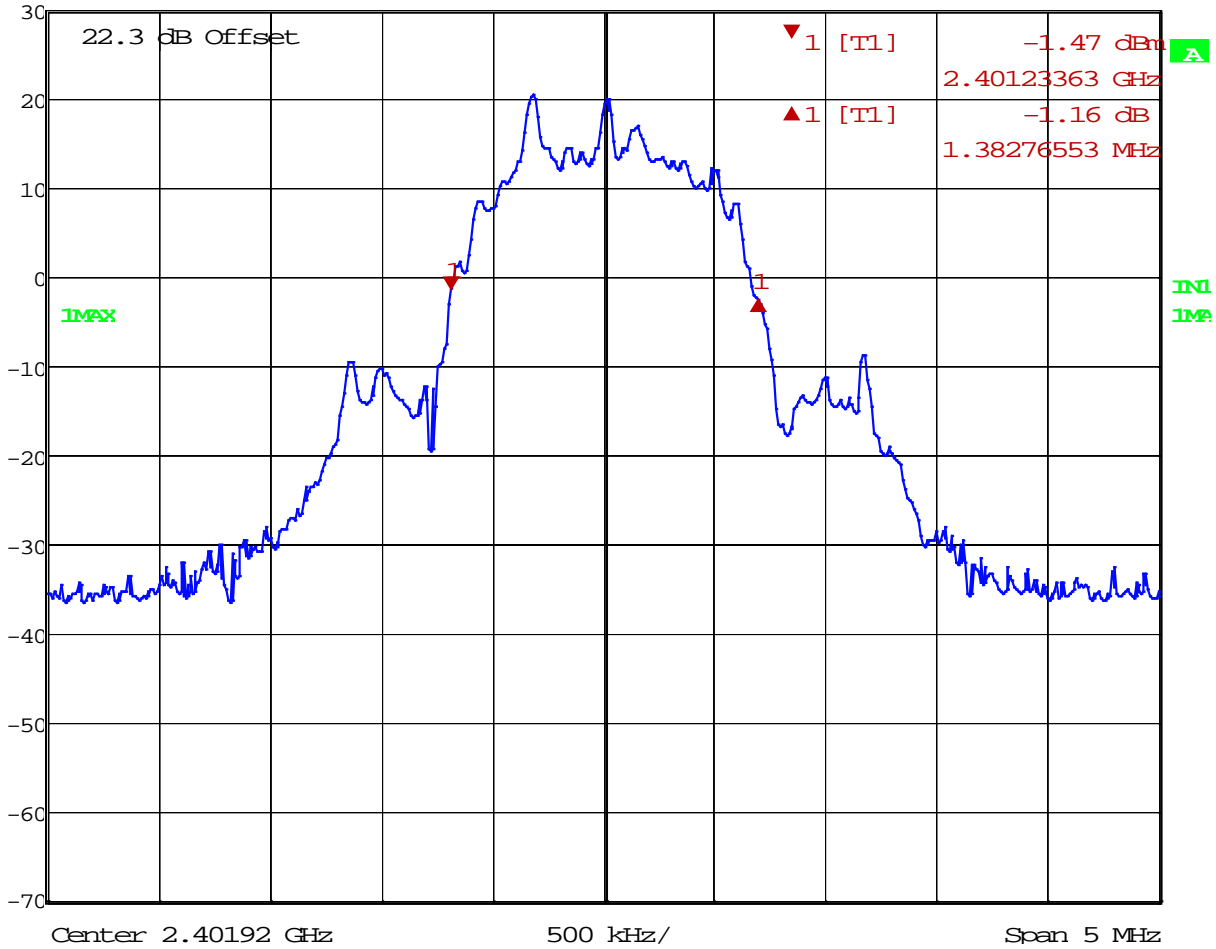
Date: 17.MAR.2015 08:51:29

**Test Data – 20 dB Bandwidth**

Low Channel  
QPSK



	Delta 1 [T1]	REW	50 kHz	RF Att	30 dB
Ref Lvl	-1.16 dB	VBW	50 kHz		
30 dBm	1.38276553 MHz	SWT	5 ms	Unit	dBm

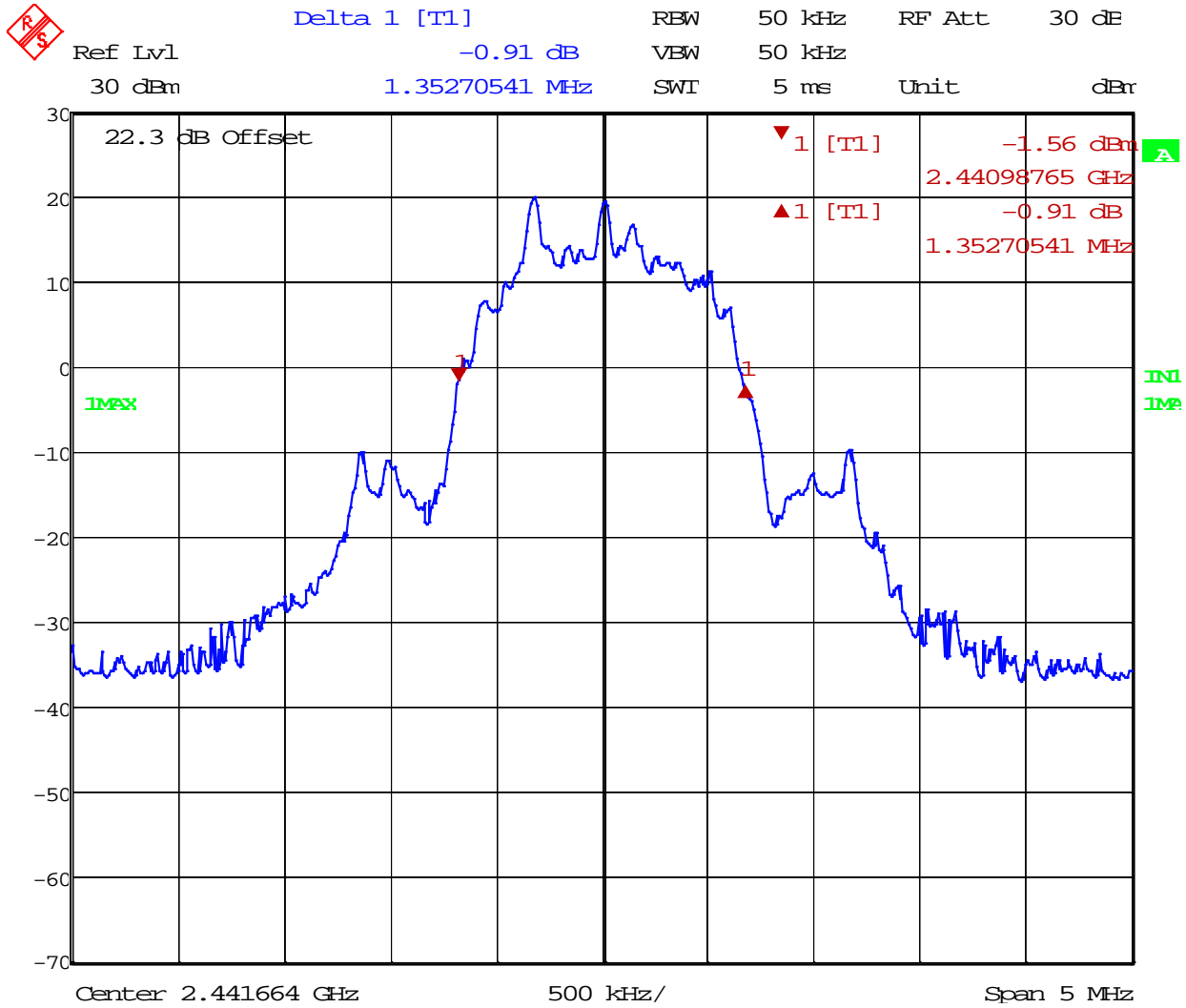


Date: 20.MAR.2015 08:01:28



**Test Data – 20 dB Bandwidth**

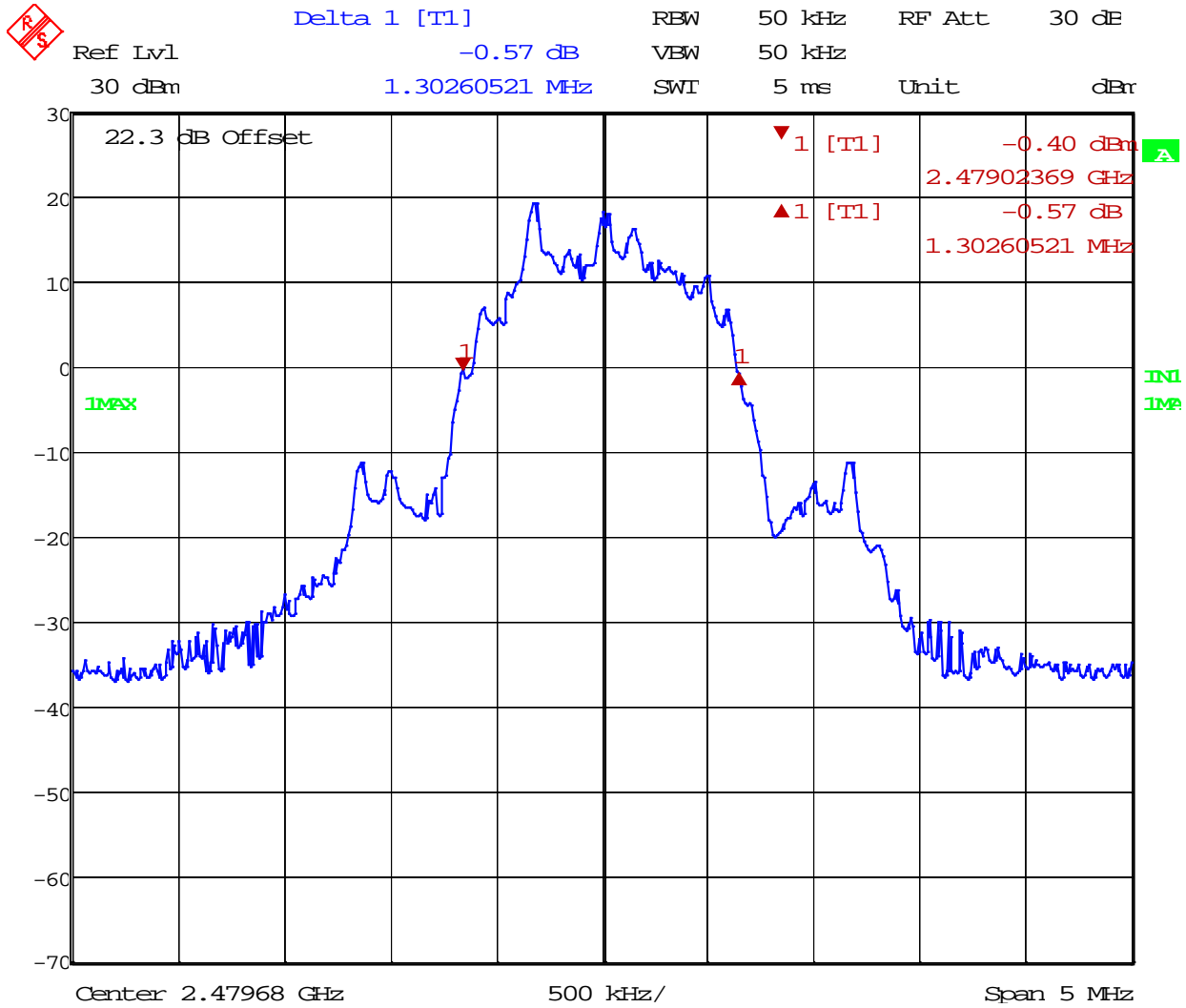
Mid Channel  
QPSK



Date: 20.MAR.2015 08:14:14

**Test Data – 20 dB Bandwidth**

High Channel  
QPSK



Date: 20.MAR.2015 08:15:54

**Test Data – 20 dB Bandwidth**

Low Channel

$\pi/4$ -DQPSK

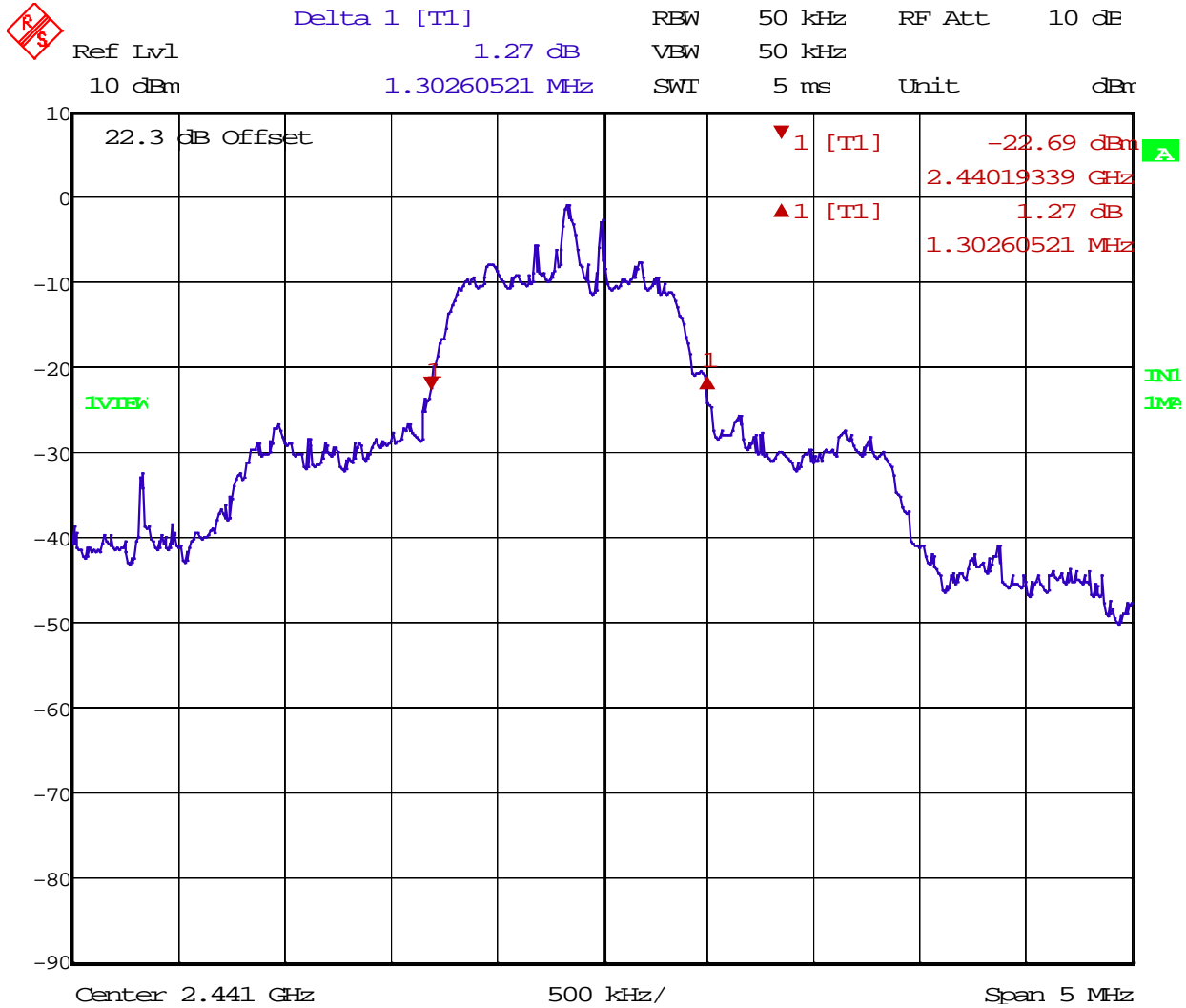


Date: 18.MAR.2015 13:21:43

**Test Data – 20 dB Bandwidth**

Mid Channel

$\pi/4$ -DQPSK

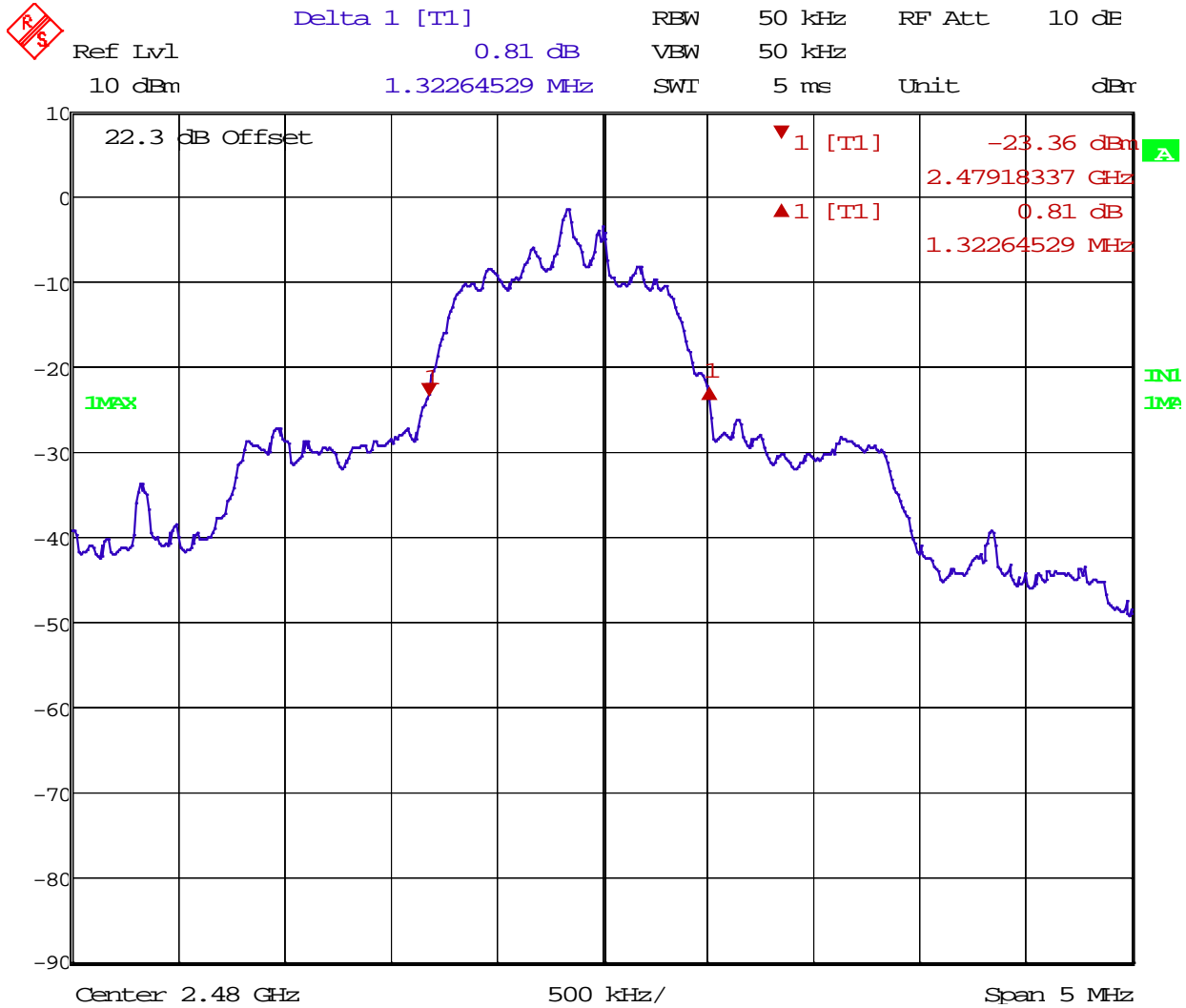


Date: 18.MAR.2015 13:25:40

**Test Data – 20 dB Bandwidth**

High Channel

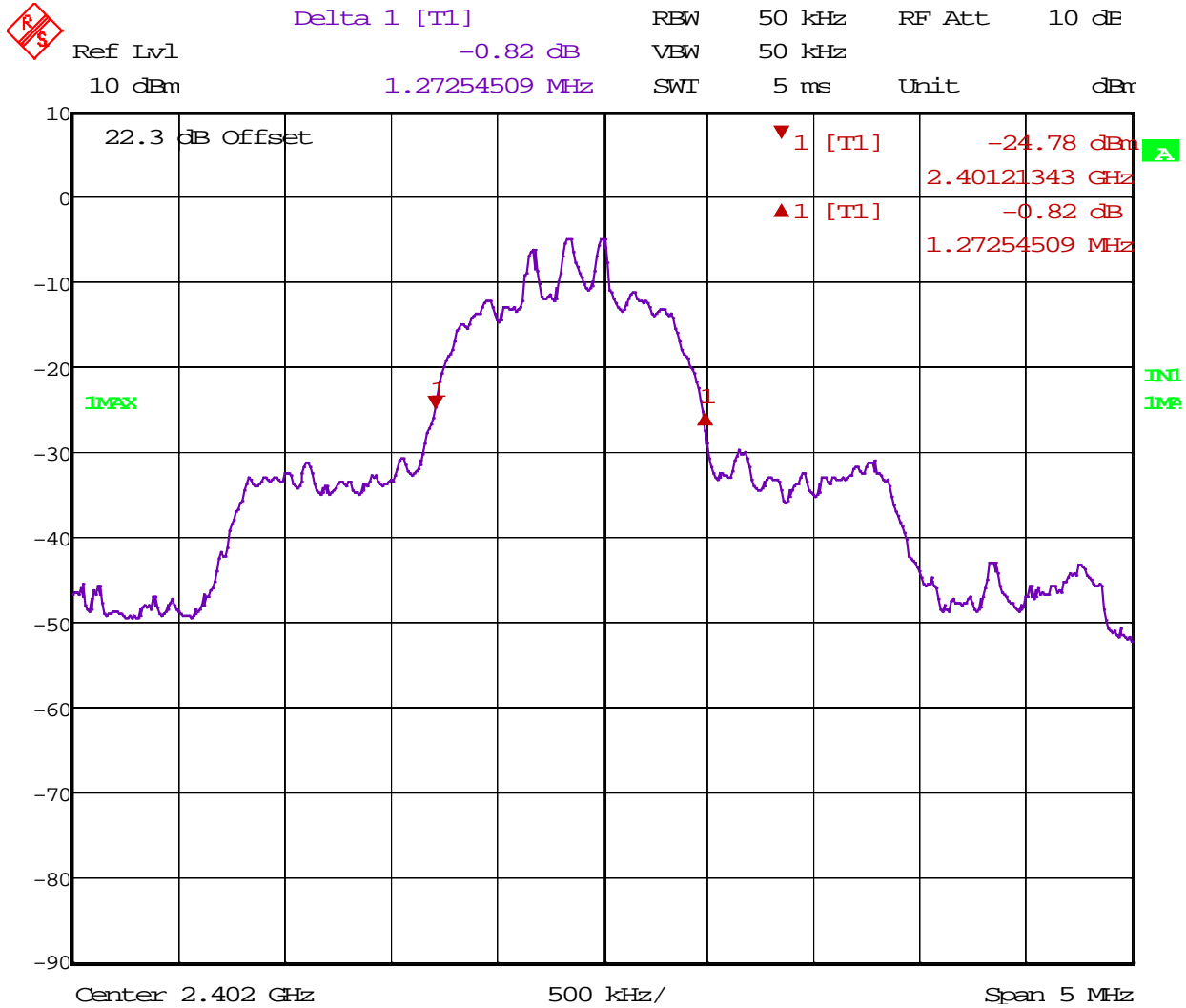
$\pi/4$ -DQPSK



Date: 18.MAR.2015 13:26:42

**Test Data – 20 dB Bandwidth**

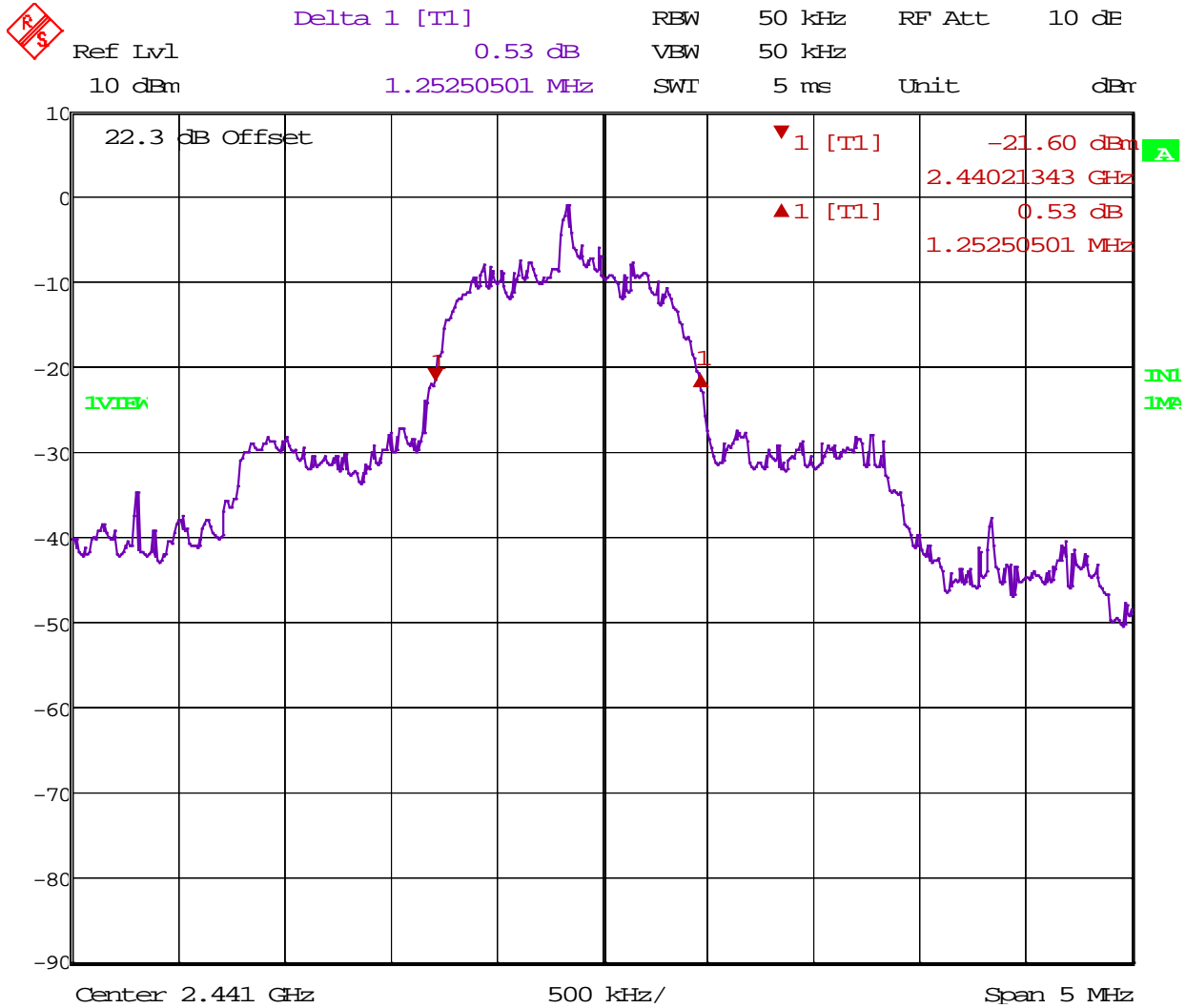
Low Channel  
8-DPSK



Date: 18.MAR.2015 13:38:25

**Test Data – 20 dB Bandwidth**

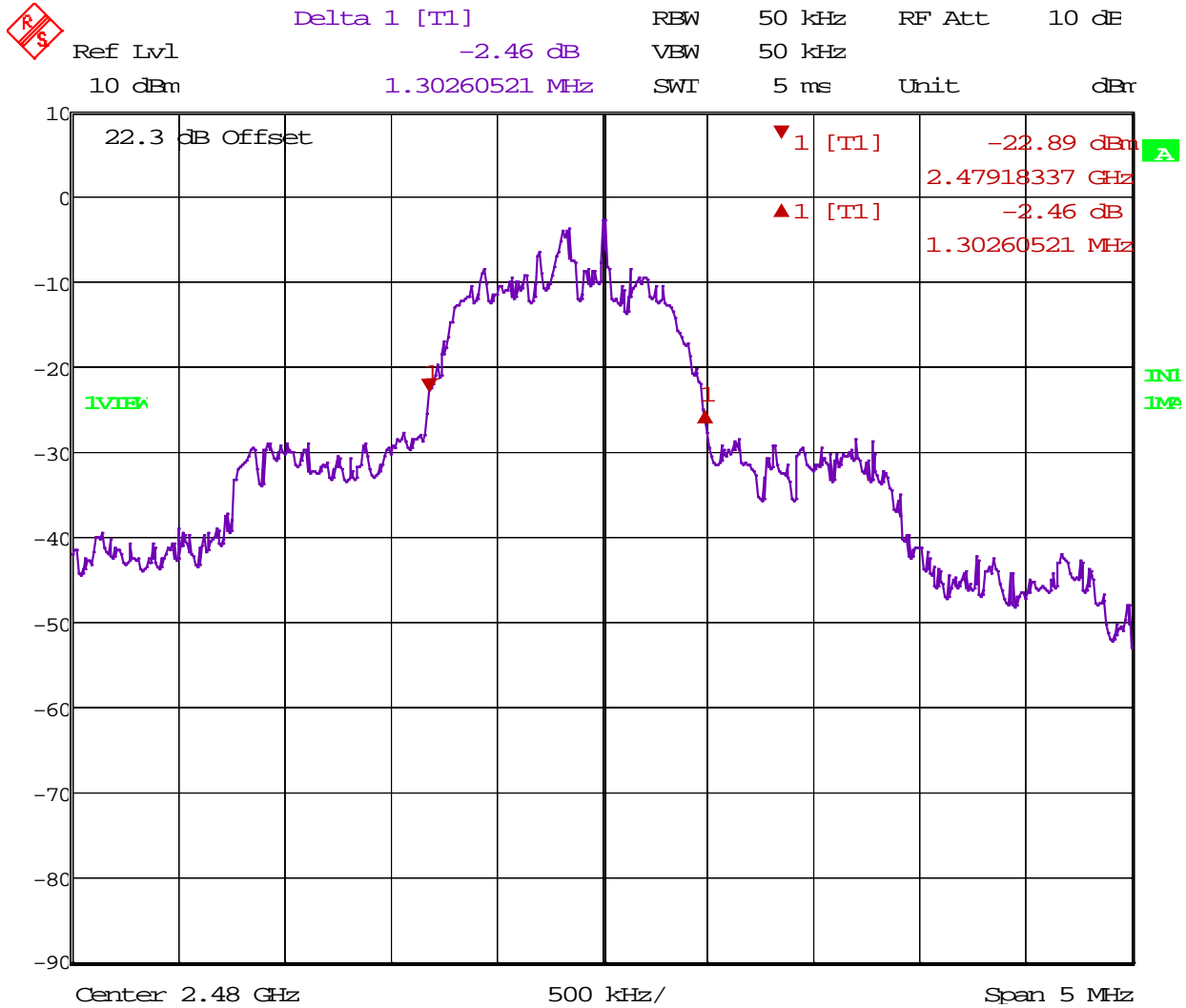
Mid Channel  
8-DPSK



Date: 18.MAR.2015 13:33:56

**Test Data – 20 dB Bandwidth**

High Channel  
8-DPSK



Date: 18.MAR.2015 13:32:57



**Section 4. Time of Occupancy**

NAME OF TEST: Time of Occupancy	PARA. NO.: 15.247(a)(1)
TESTED BY: David Light	DATE: 17 March 2015

**Test Results:** Complies.

**Measurement Data:**

Maximum Dwell Time On Any Channel: 9.84 ms in 15 seconds

**Equipment Used:** 1036

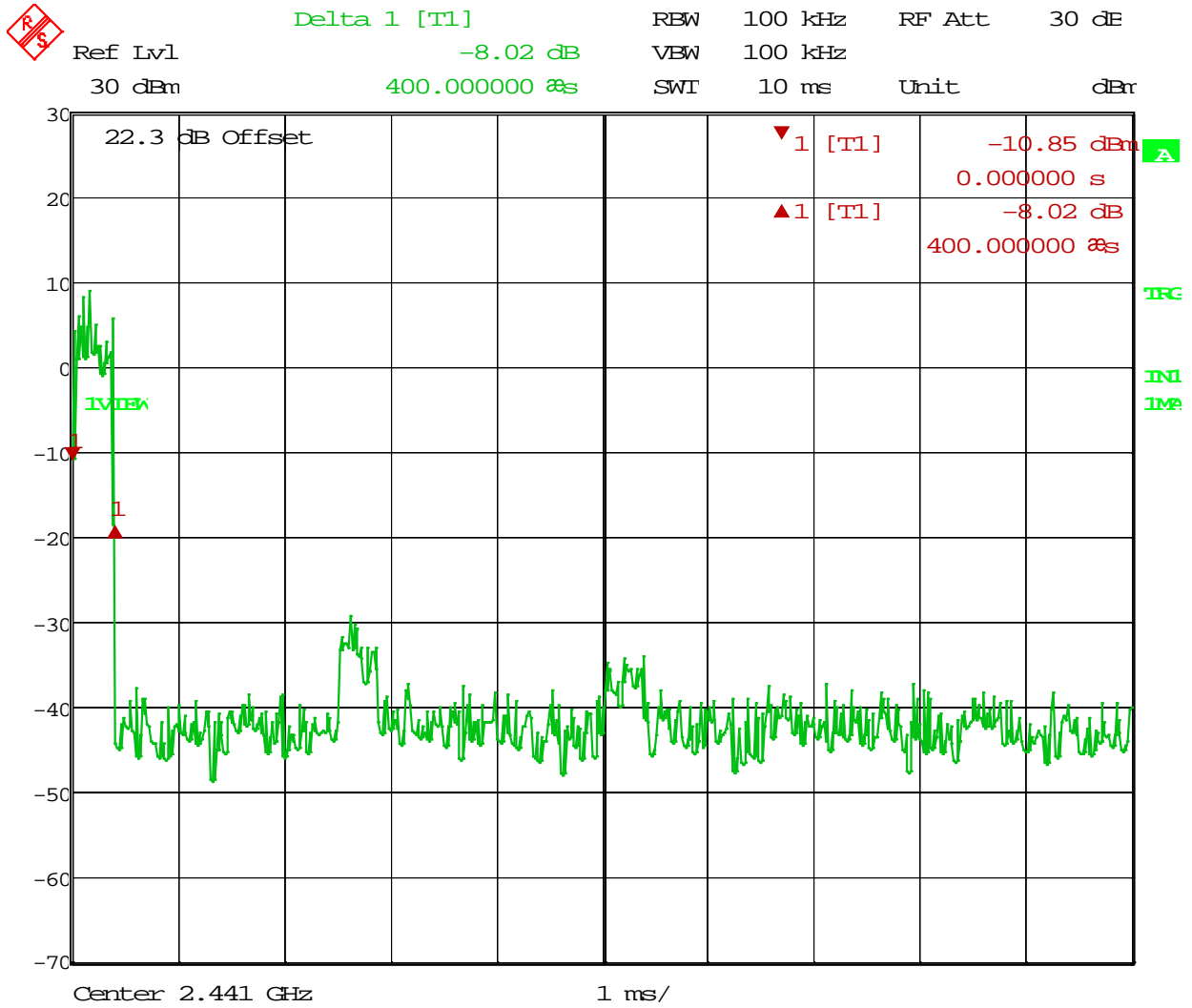
**Measurement Uncertainty:** 0.20 ms

**Temperature:** 20 °C

**Relative Humidity:** 30 %

**Test Data – Time of Occupancy**

Hop time = 400  $\mu$ s



Date: 17.MAR.2015 08:55:38

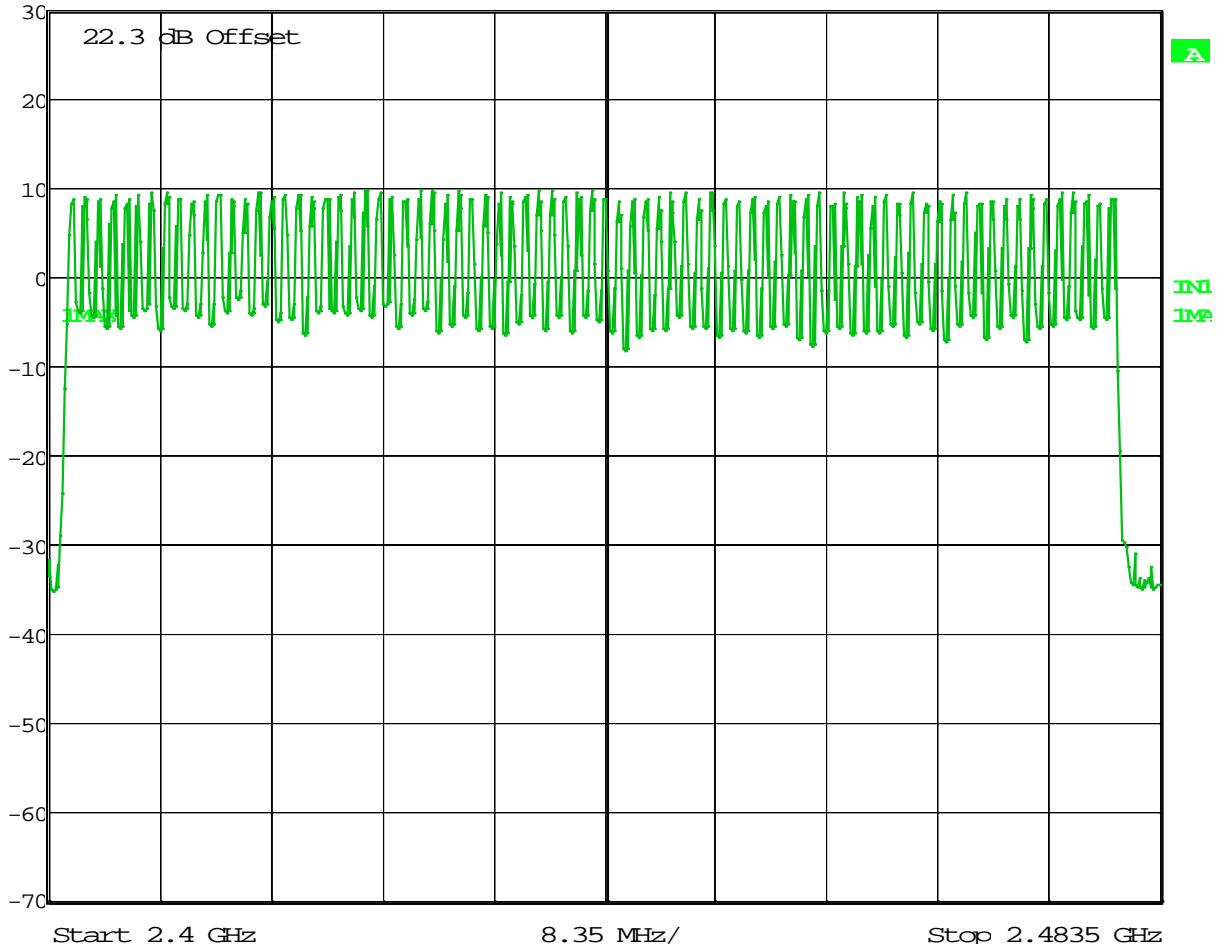
Test Data – Time of Occupancy

79 Hopping channels



Ref Lvl  
30 dBm

REW 100 kHz RF Att 30 dB  
VBW 100 kHz  
SWT 21 ms Unit dBm

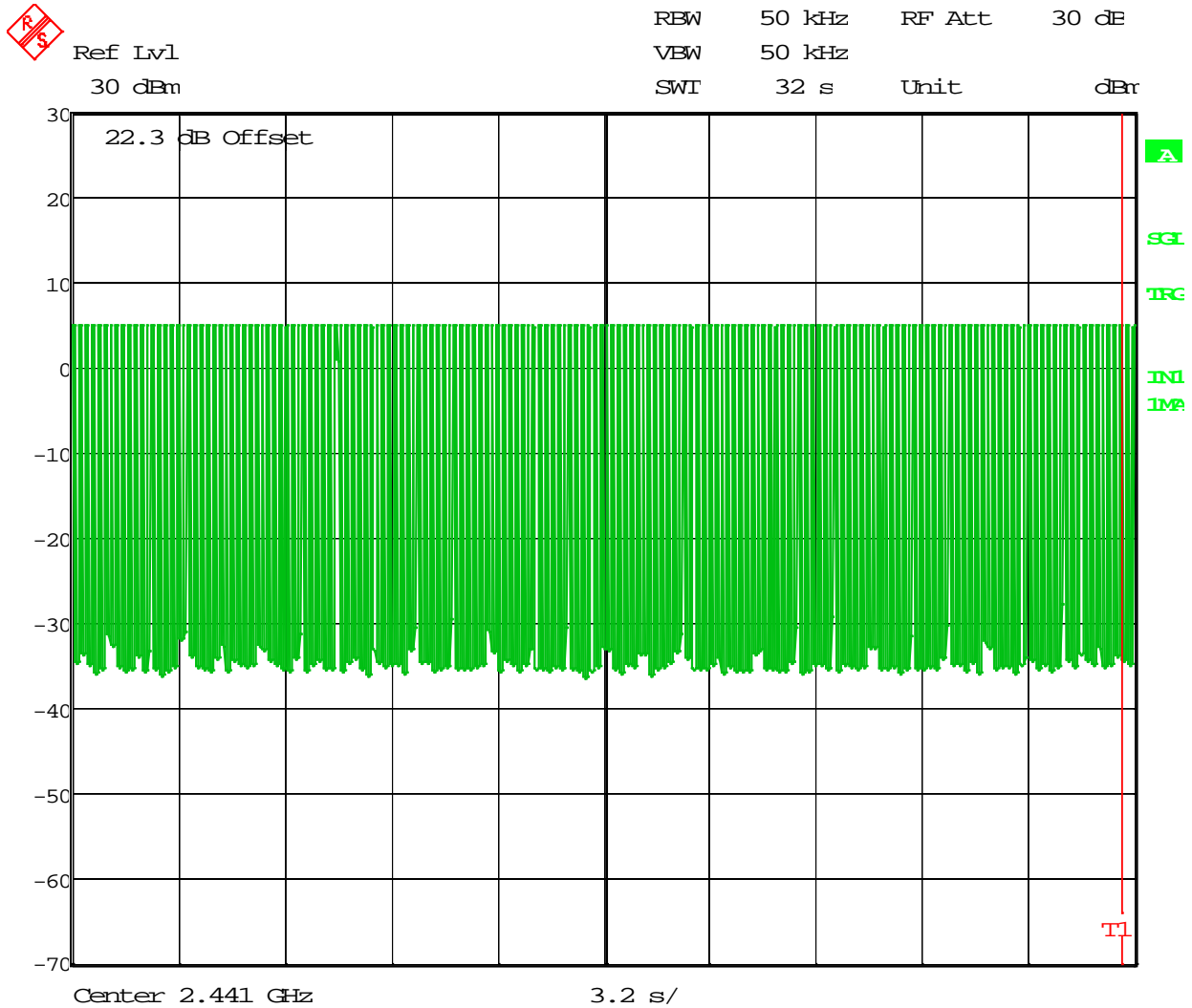


Date: 17.MAR.2015 08:54:21

Test Data – Time of Occupancy

0.4 x 79 = 31.6 seconds

330 hops in 32 seconds = 132 ms



Date: 17.MAR.2015 08:59:59

## Section 5. Peak Power Output

NAME OF TEST: Peak Power Output	PARA. NO.: 15.247 (b)
TESTED BY: David Light	DATE: 20 March 2015

**Test Results:** Complies.

**Measurement Data:** See attached plots.  
Detachable antenna?  Yes  No

Frequency (MHz)	Modulation	Peak Power (dBm)	Peak Power (mW)	Antenna Type	Gain (dBi)	E.I.R.P. (dBm)	E.I.R.P. (mW)
2402	GFSK	2.1	1.6	Inverted F	2.5	4.6	2.9
2441	GFSK	5.8	3.8	Inverted F	2.5	8.3	6.8
2480	GFSK	5.3	3.4	Inverted F	2.5	7.8	6.0
2402	$\pi/4$ -DQPSK	-1.9	0.7	Inverted F	2.5	0.6	1.1
2441	$\pi/4$ -DQPSK	1.9	1.5	Inverted F	2.5	4.4	2.8
2480	$\pi/4$ -DQPSK	1.4	1.4	Inverted F	2.5	3.9	2.5
2402	8-DPSK	-1.3	0.7	Inverted F	2.5	1.2	1.3
2441	8-DPSK	2.7	1.9	Inverted F	2.5	5.2	3.3
2480	8-DPSK	2.2	1.7	Inverted F	2.5	4.7	3.0
Maximum EIRP (W): 0.0068							

- This device was tested at +/- 15% input power per 15.31(e), with no variation in output power.
- For battery powered equipment, the device was tested with a fresh battery per 15.31(e).
- The device was tested on three channels per 15.31(l).

**Equipment Used:** 1036

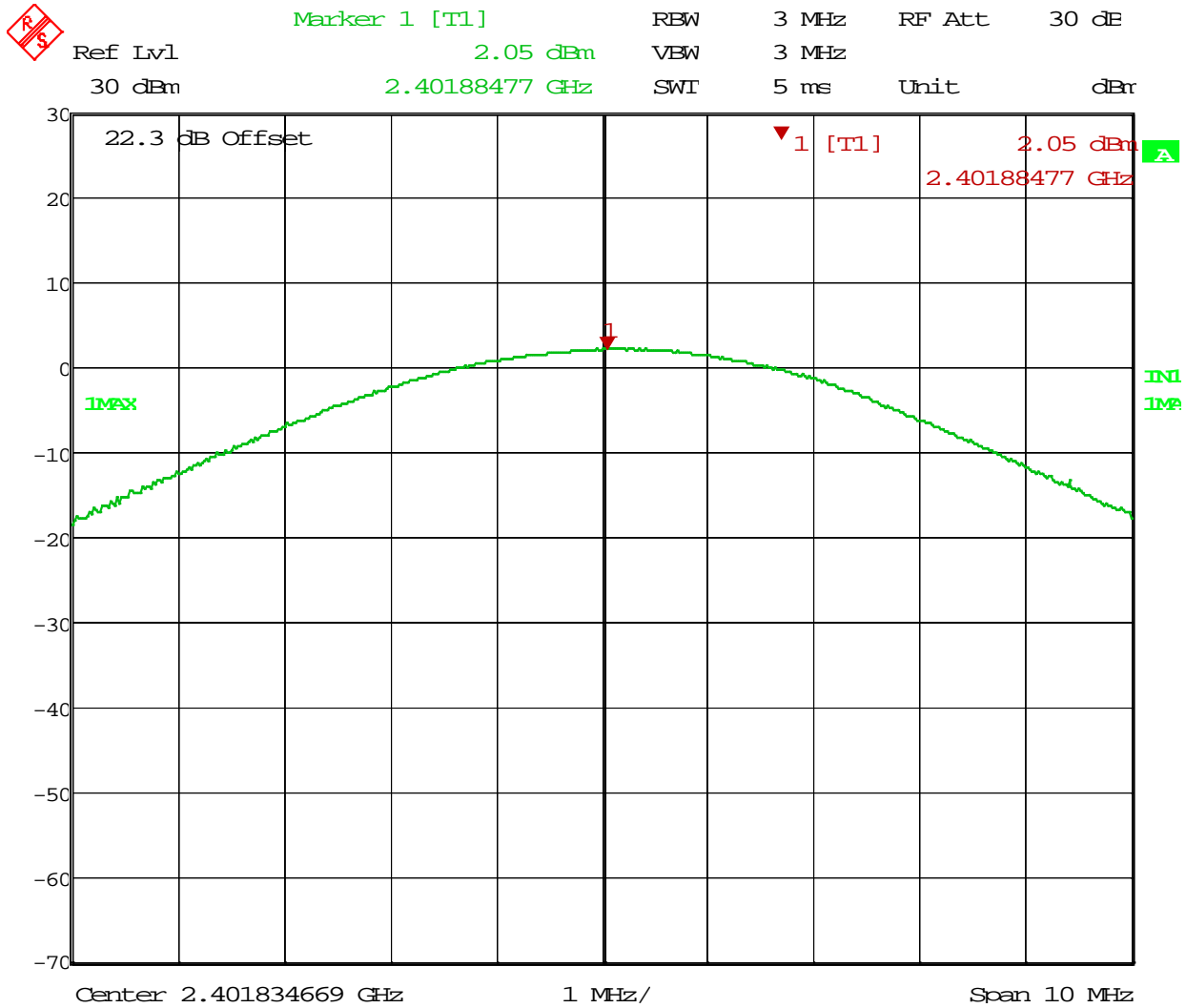
**Measurement Uncertainty:** 1.7 dB

**Temperature:** 20 °C

**Relative Humidity:** 30 %

**Detector Function = PEAK**

Test Data – Peak Power Output  
GFSK



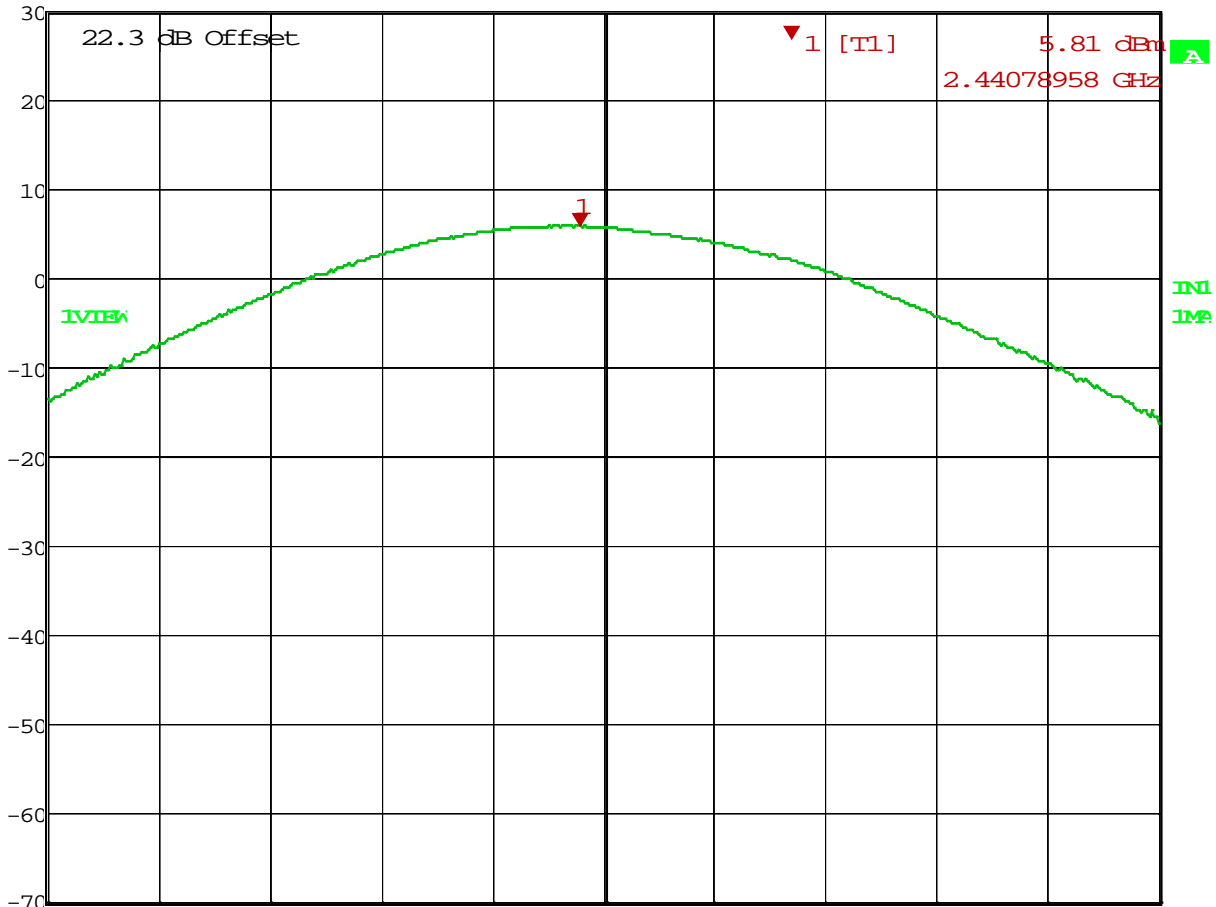
Date: 17.MAR.2015 08:33:22

Test Data – Peak Power Output

GFSK



Ref Lvl	Marker 1 [T1]	RBW	3 MHz	RF Att	30 dB
30 dBm	5.81 dBm	VBW	3 MHz		
	2.44078958 GHz	SWT	5 ms	Unit	dBm



Center 2.441 GHz      1 MHz/      Span 10 MHz

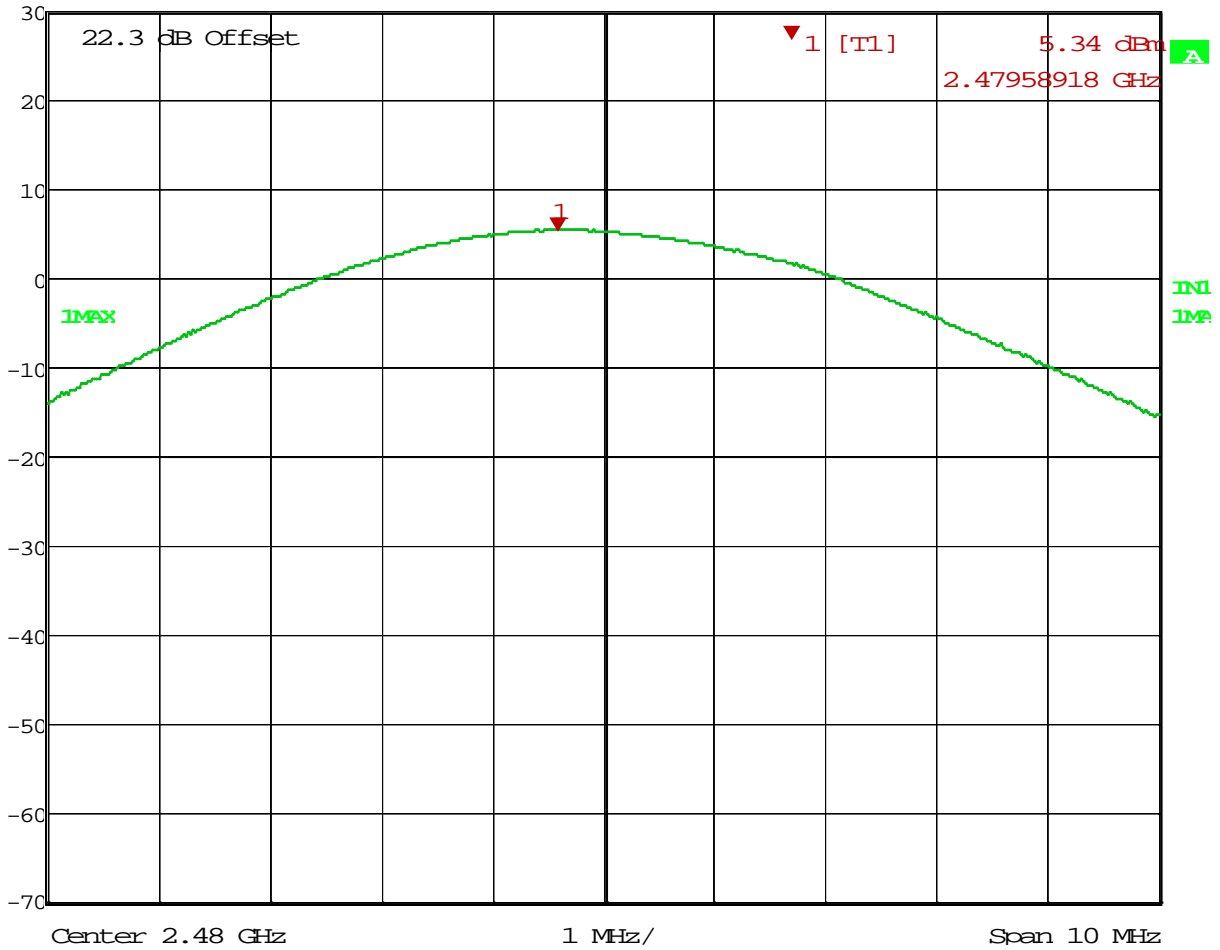
Date: 17.MAR.2015 08:37:40

**Test Data – Peak Power Output**

GFSK



Ref Lvl	Marker 1 [T1]	RBW	3 MHz	RF Att	30 dB
30 dBm	5.34 dBm	VBW	3 MHz		
	2.47958918 GHz	SWT	5 ms	Unit	dBm



Date: 17.MAR.2015 08:46:17

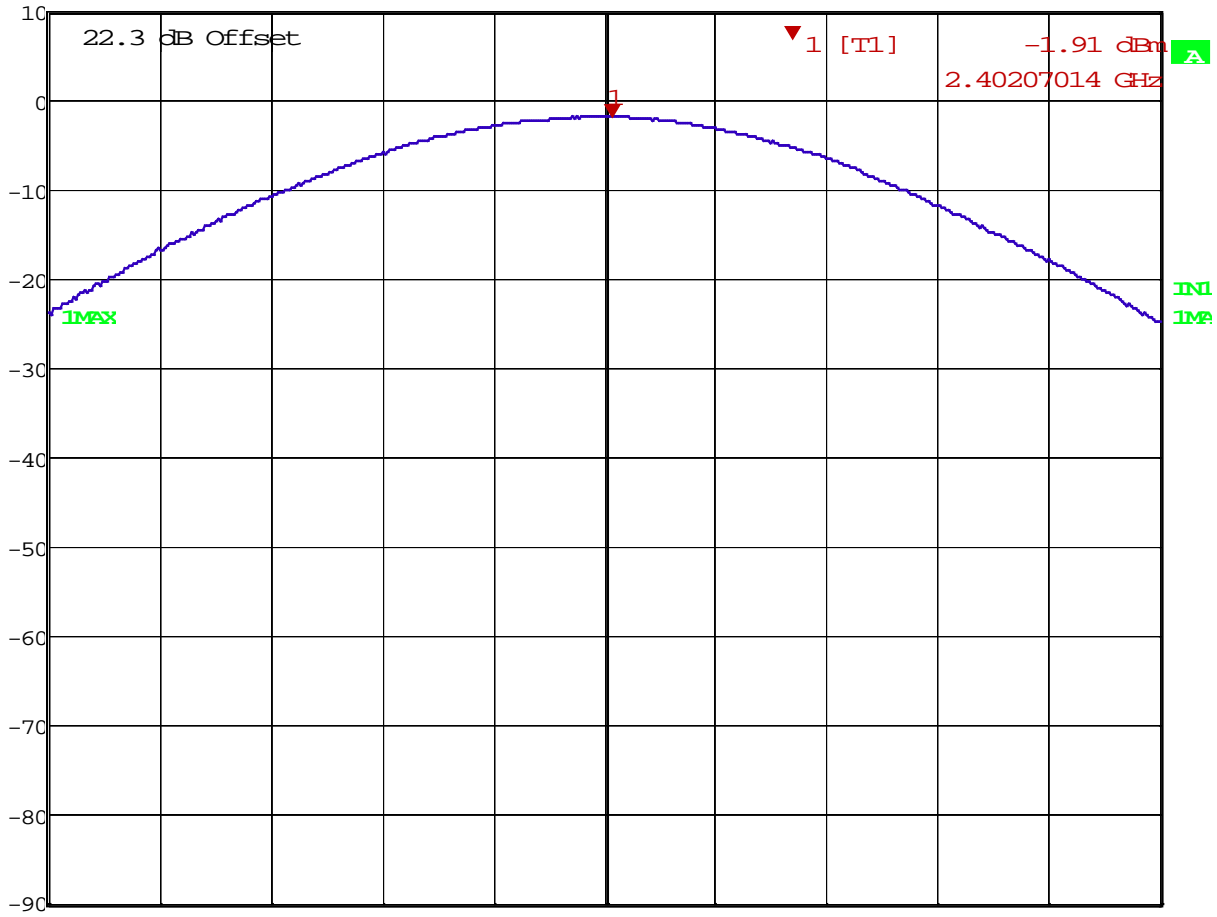


Test Data – Peak Power Output

$\pi/4$ -DQPSK



Marker 1 [T1] RBW 3 MHz RF Att 10 dB  
Ref Lvl -1.91 dBm VBW 3 MHz  
10 dBm 2.40207014 GHz SWI 5 ms Unit dBm



Center 2.402 GHz 1 MHz/ Span 10 MHz

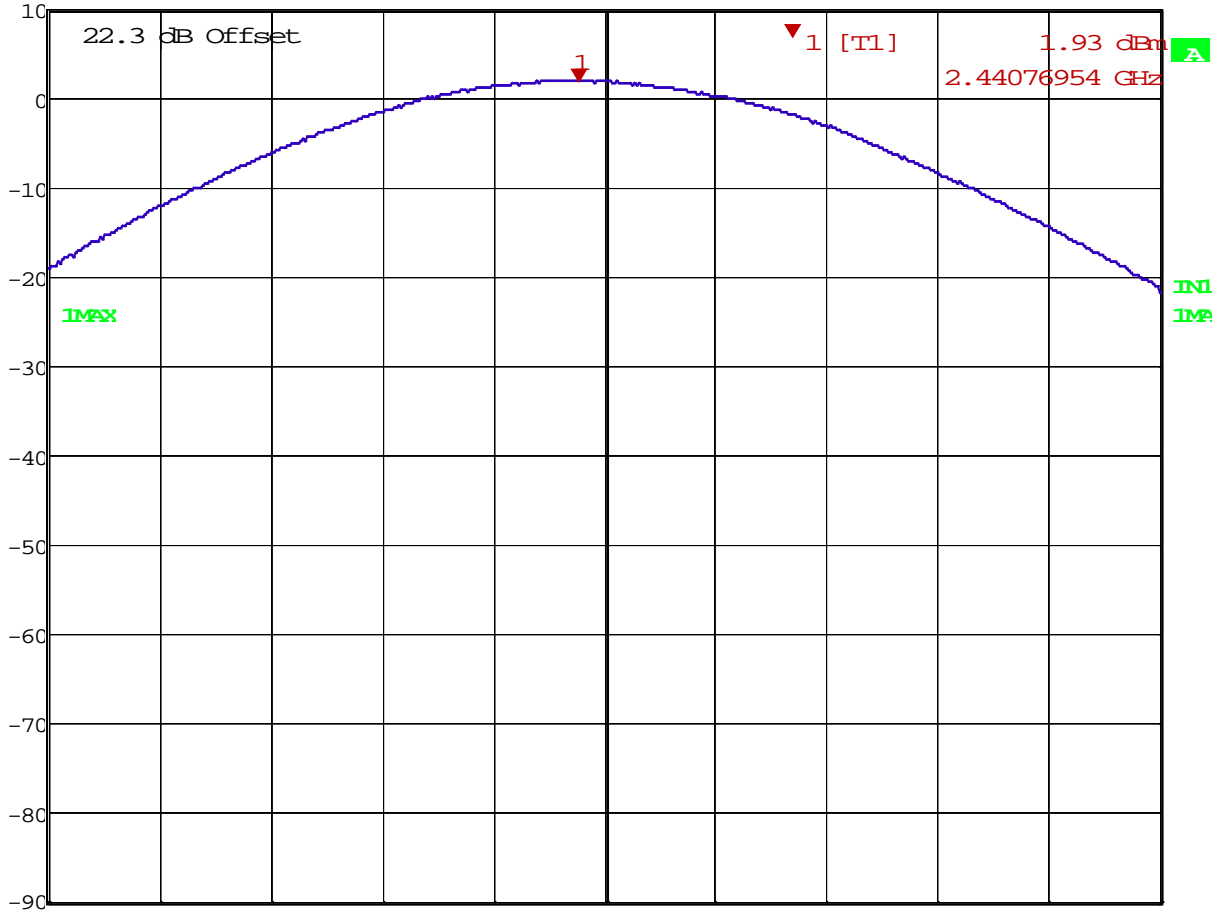
Date: 18.MAR.2015 13:22:14

**Test Data – Peak Power Output**

Π/4-DQPSK



Ref Lvl	Marker 1 [T1]	RBW	3 MHz	RF Att	10 dB
10 dBm	1.93 dBm	VBW	3 MHz		
	2.44076954 GHz	SWT	5 ms	Unit	dBm



Center 2.441 GHz

1 MHz/

Span 10 MHz

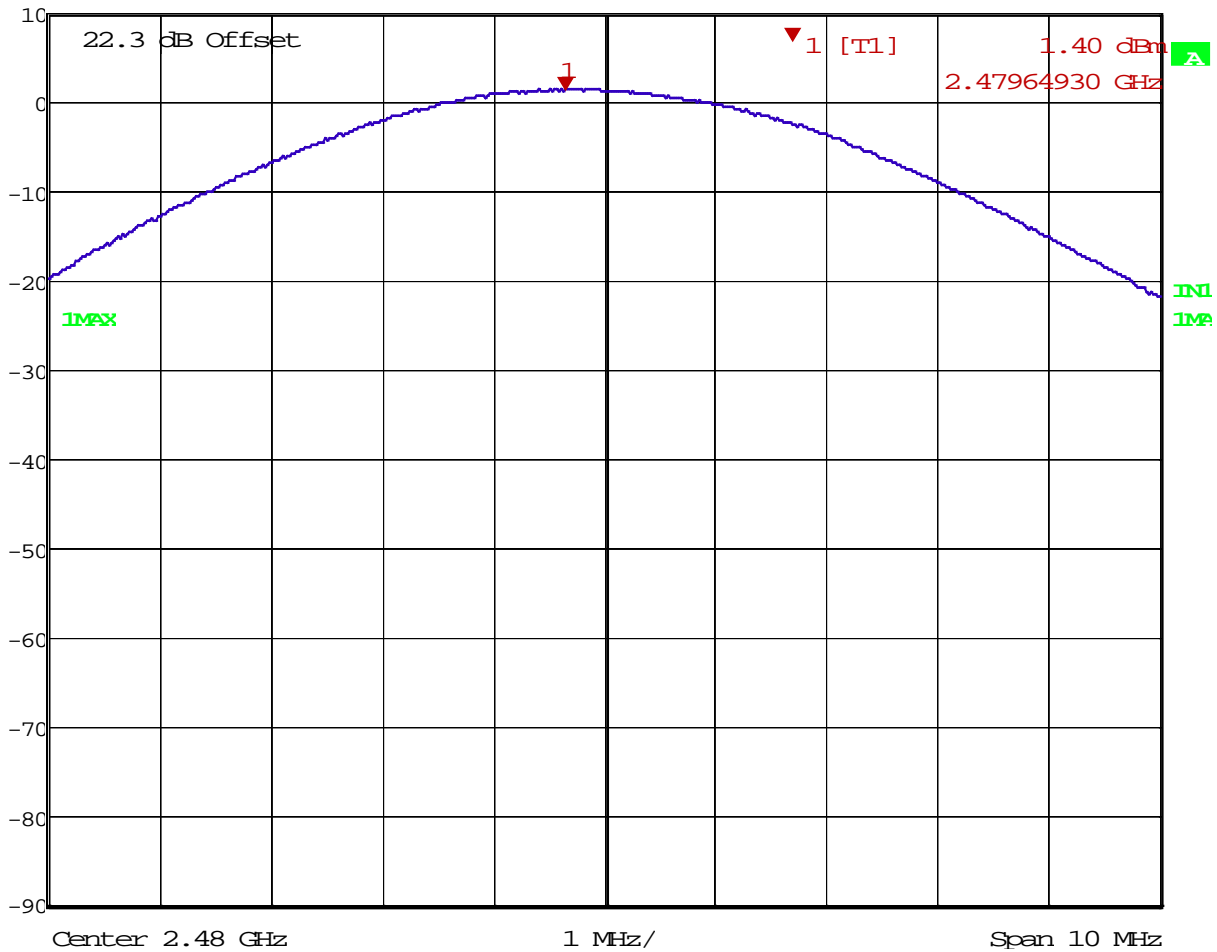
Date: 18.MAR.2015 13:24:51

Test Data – Peak Power Output

Π/4-DQPSK

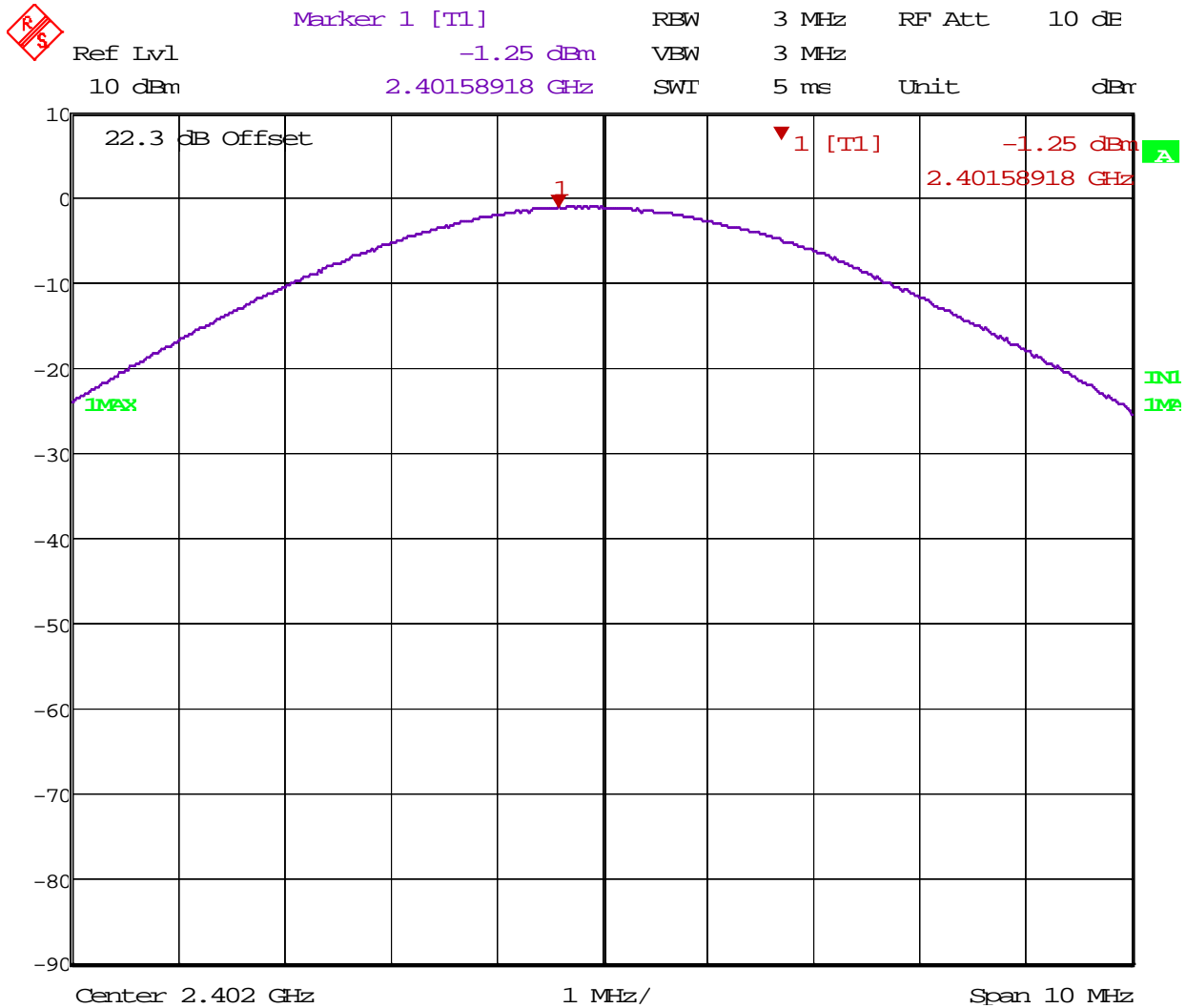


Marker 1 [T1]      RBW    3 MHz    RF Att    10 dB  
Ref Lvl                    1.40 dBm    VBW    3 MHz  
10 dBm                    2.47964930 GHz    SWI    5 ms    Unit        dBm



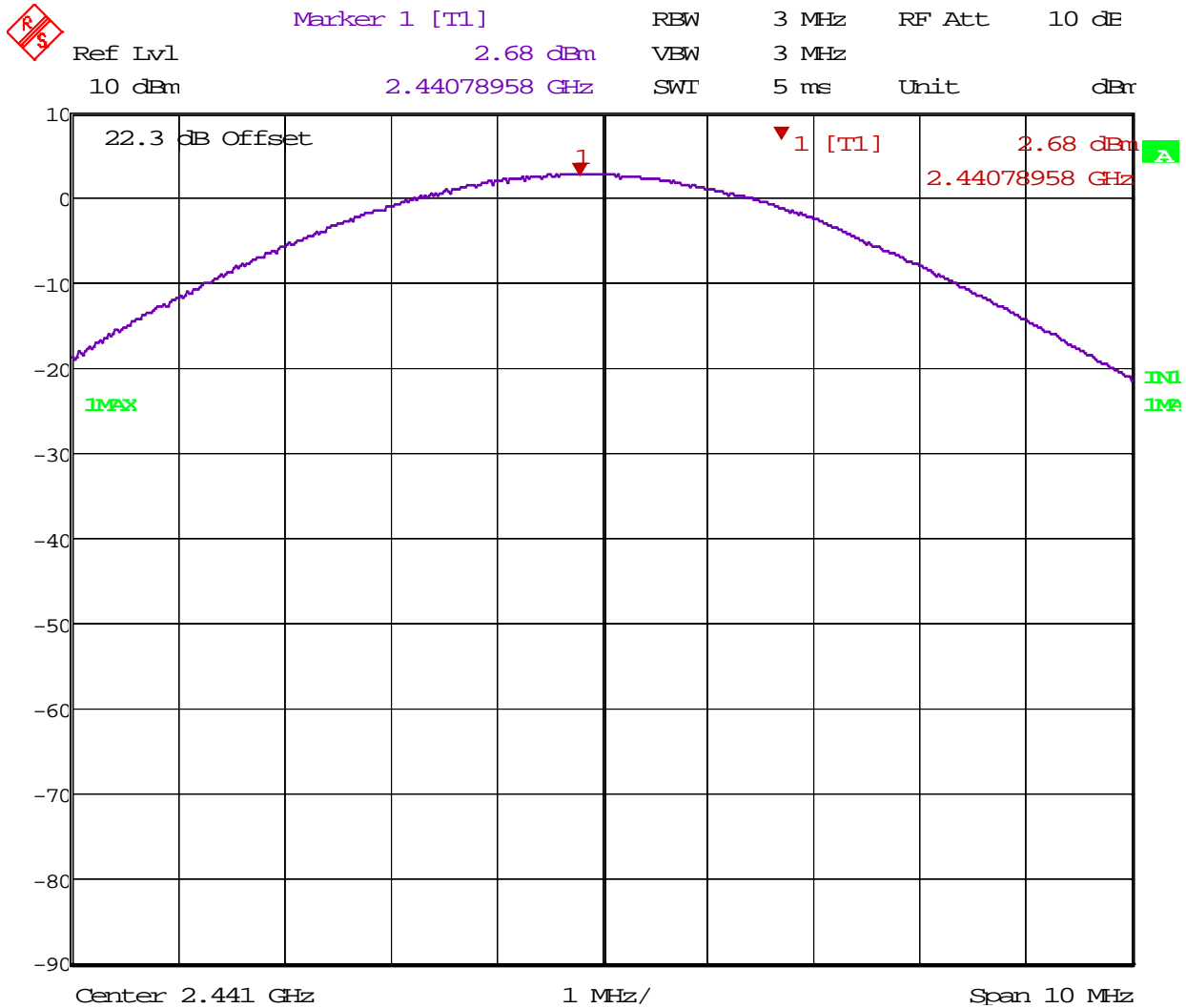
Date: 18.MAR.2015 13:27:14

**Test Data – Peak Power Output**  
8-DPSK



Date: 18.MAR.2015 13:37:40

**Test Data – Peak Power Output**  
8-DPSK



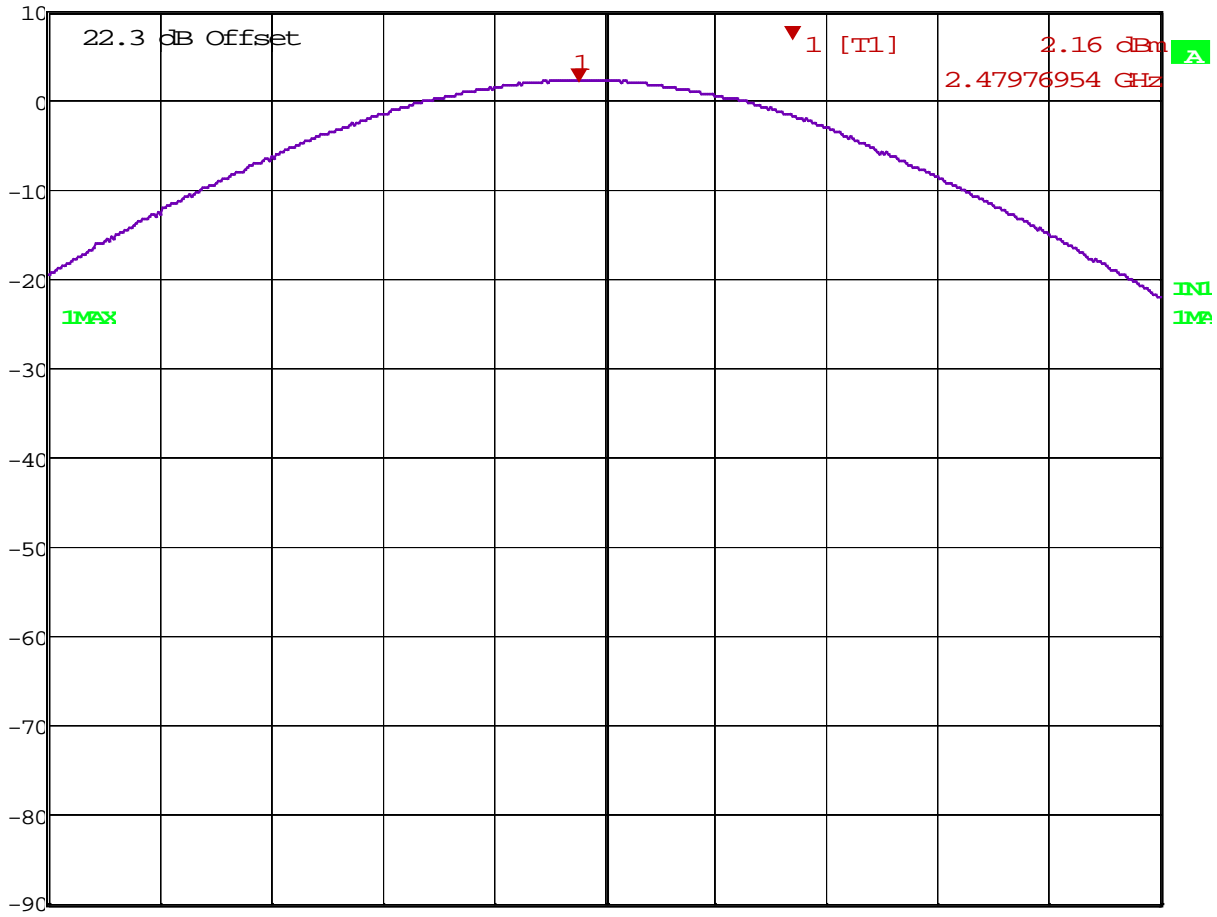
Date: 18.MAR.2015 13:34:18

Test Data – Peak Power Output

8-DPSK



Marker 1 [T1] RBW 3 MHz RF Att 10 dB  
Ref Lvl 2.16 dBm VBW 3 MHz  
10 dBm 2.47976954 GHz SWI 5 ms Unit dBm



Center 2.48 GHz 1 MHz/ Span 10 MHz

Date: 18.MAR.2015 13:31:15

**Section 6. Spurious Emissions (Conducted)**

NAME OF TEST: Spurious Emissions (Conducted)	PARA. NO.: 15.247(d)
TESTED BY: David Light	DATE: 17 March 2015

**Test Results:** Complies.

**Measurement Data:** See attached plots.

**Equipment Used:** 1036

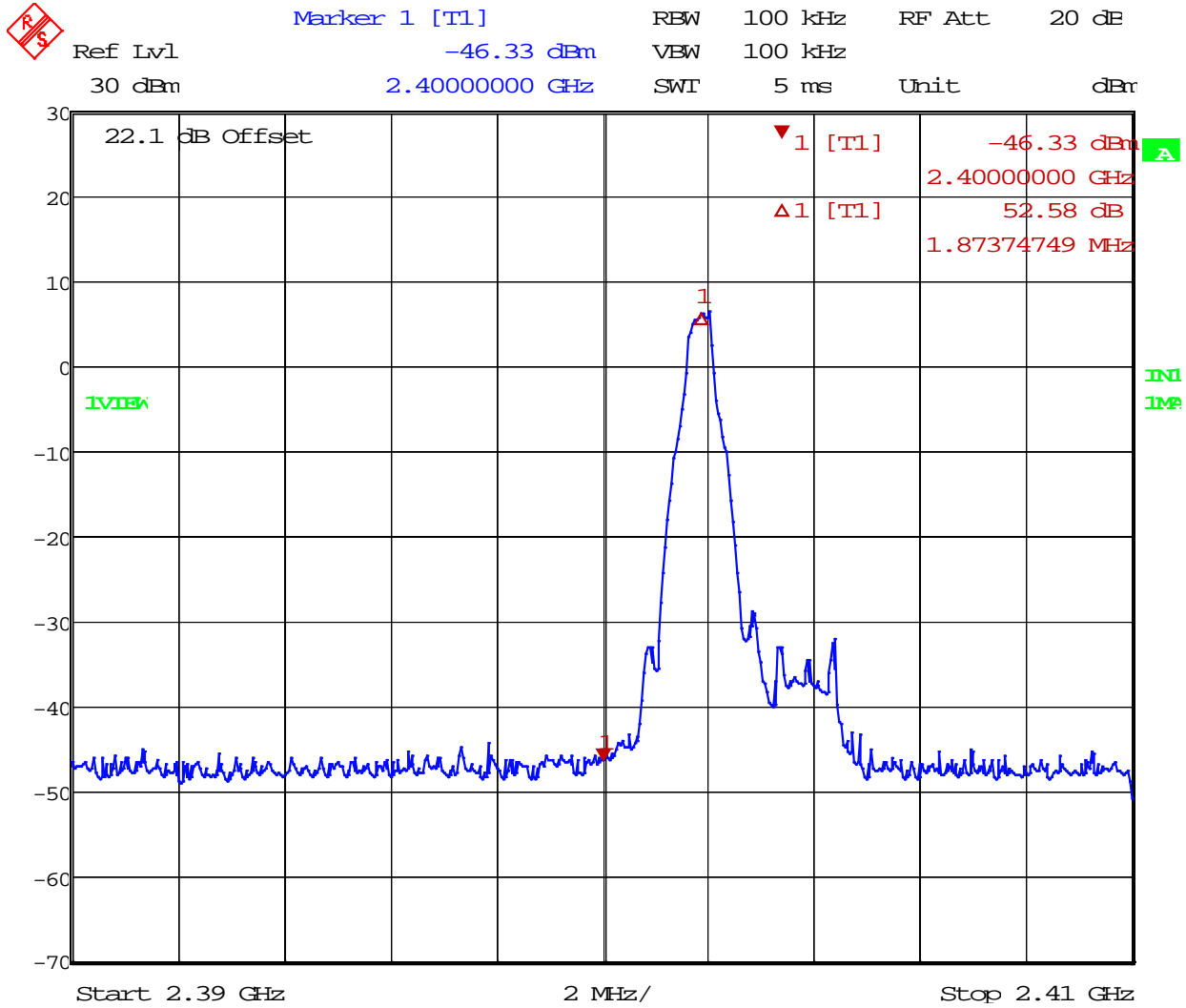
**Measurement Uncertainty:** 0.20 ms

**Temperature:** 20 °C

**Relative Humidity:** 30 %

**Test Data – Spurious Emissions at Antenna Terminals**

Lower Band Edge  
GFSK

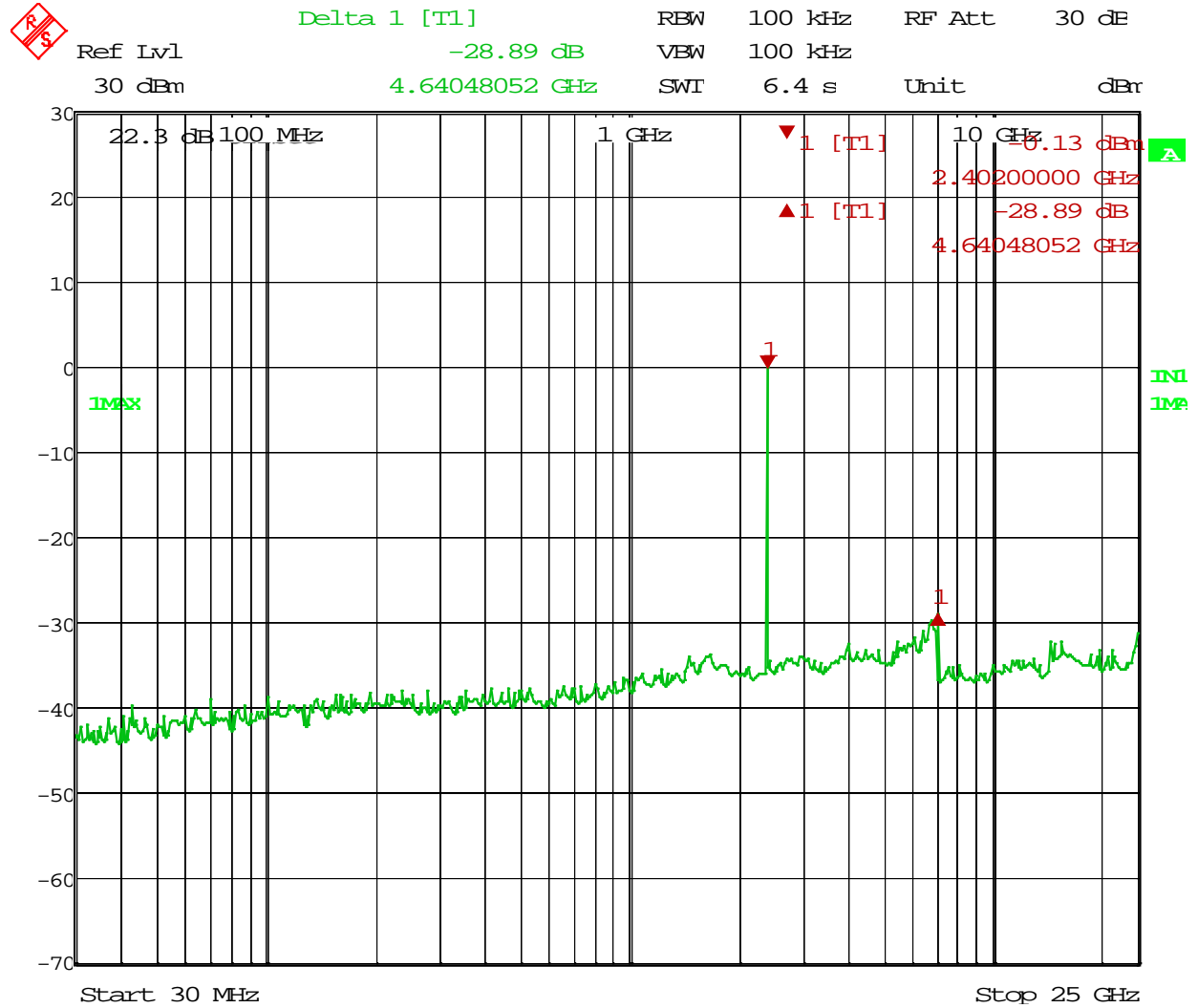


Date: 31.MAR.2015 15:27:08



**Test Data – Spurious Emissions at Antenna Terminals**

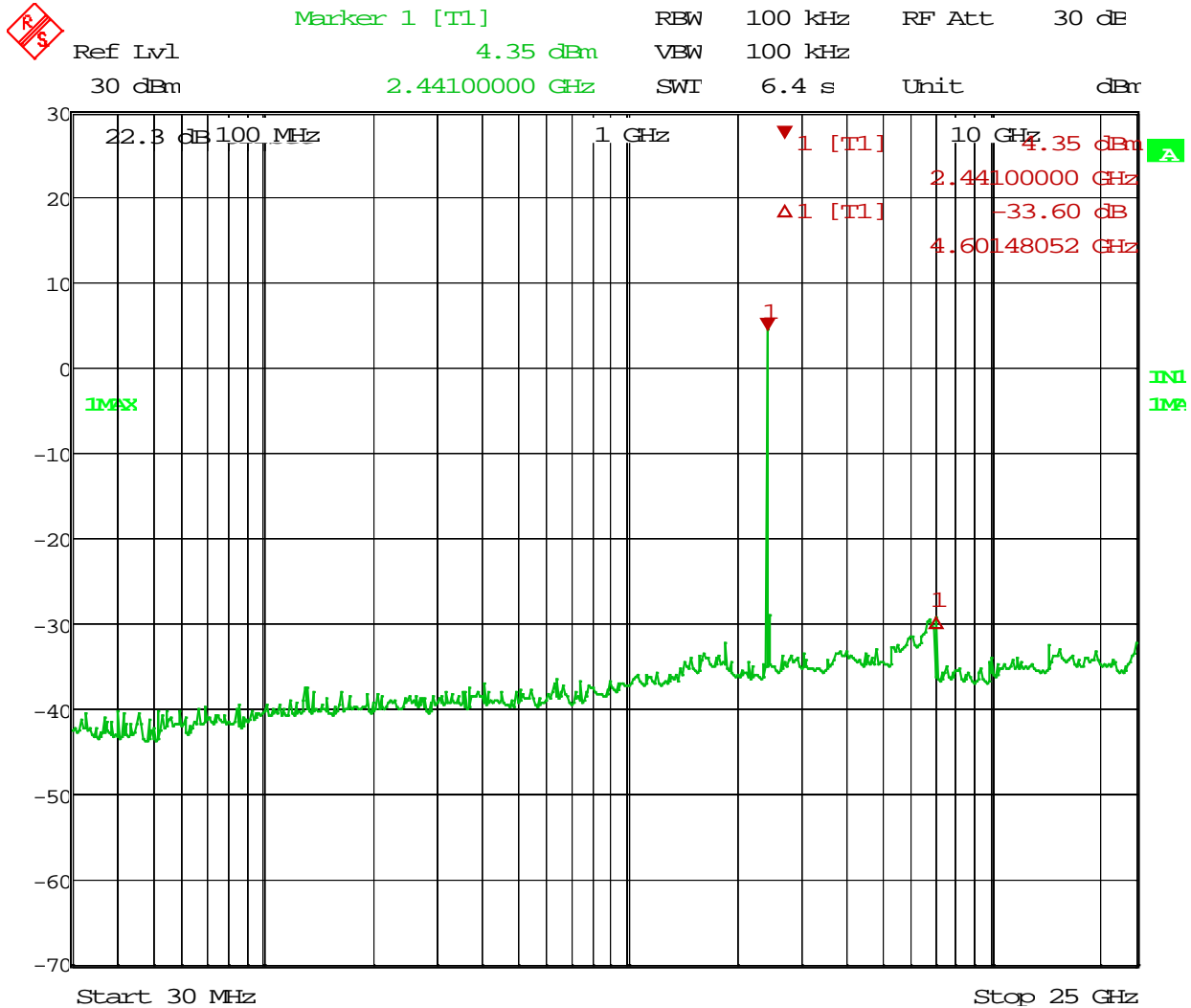
Spurs – Low Channel  
GFSK



Date: 17.MAR.2015 08:34:49

Test Data – Spurious Emissions at Antenna Terminals

Spurs – Mid Channel  
GFSK



Date: 17.MAR.2015 08:35:54

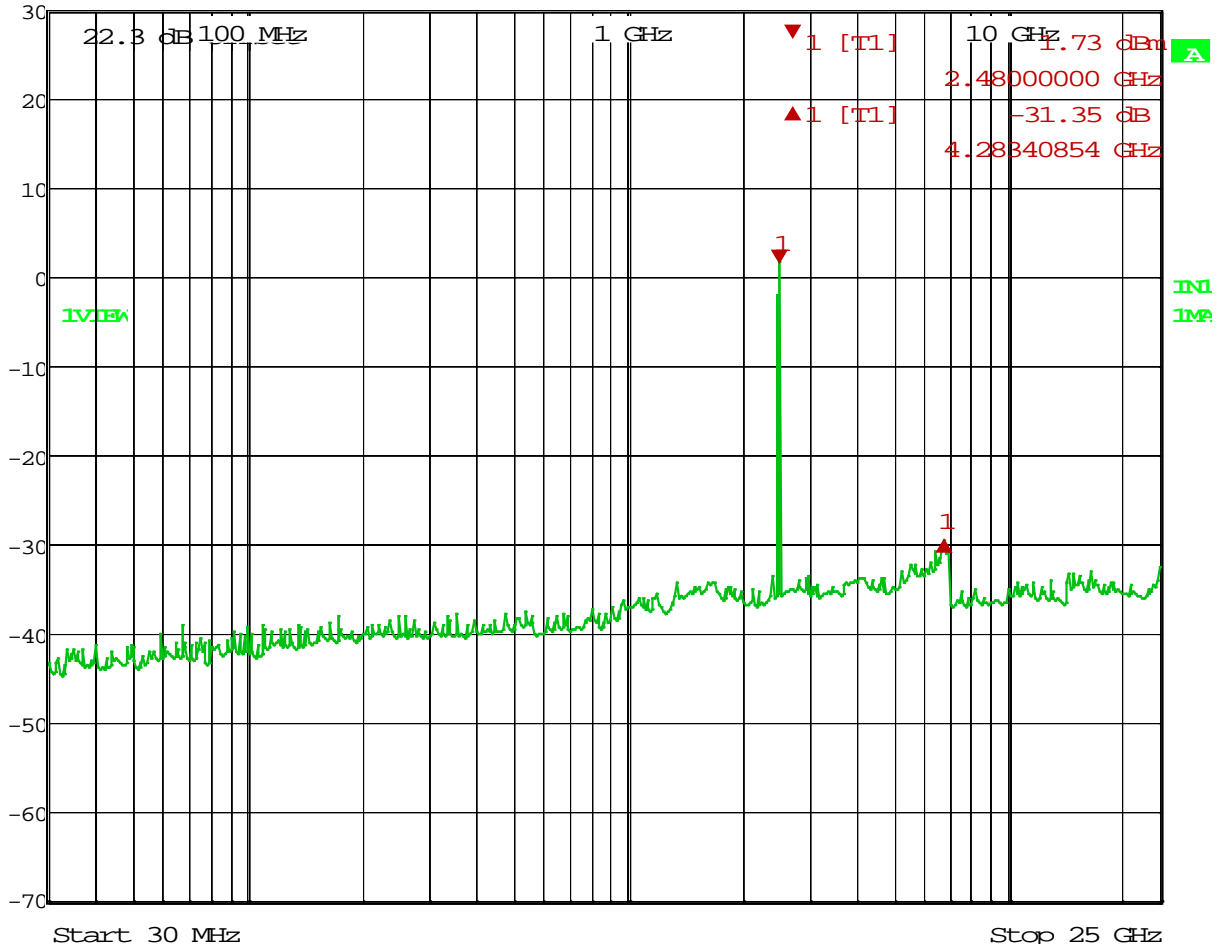
Test Data – Spurious Emissions at Antenna Terminals

Spurs – High Channel

GFSK



Delta 1 [T1] REW 100 kHz RF Att 30 dB  
Ref Lvl -31.35 dB VBW 100 kHz  
30 dBm 4.28340854 GHz SWI 6.4 s Unit dBm

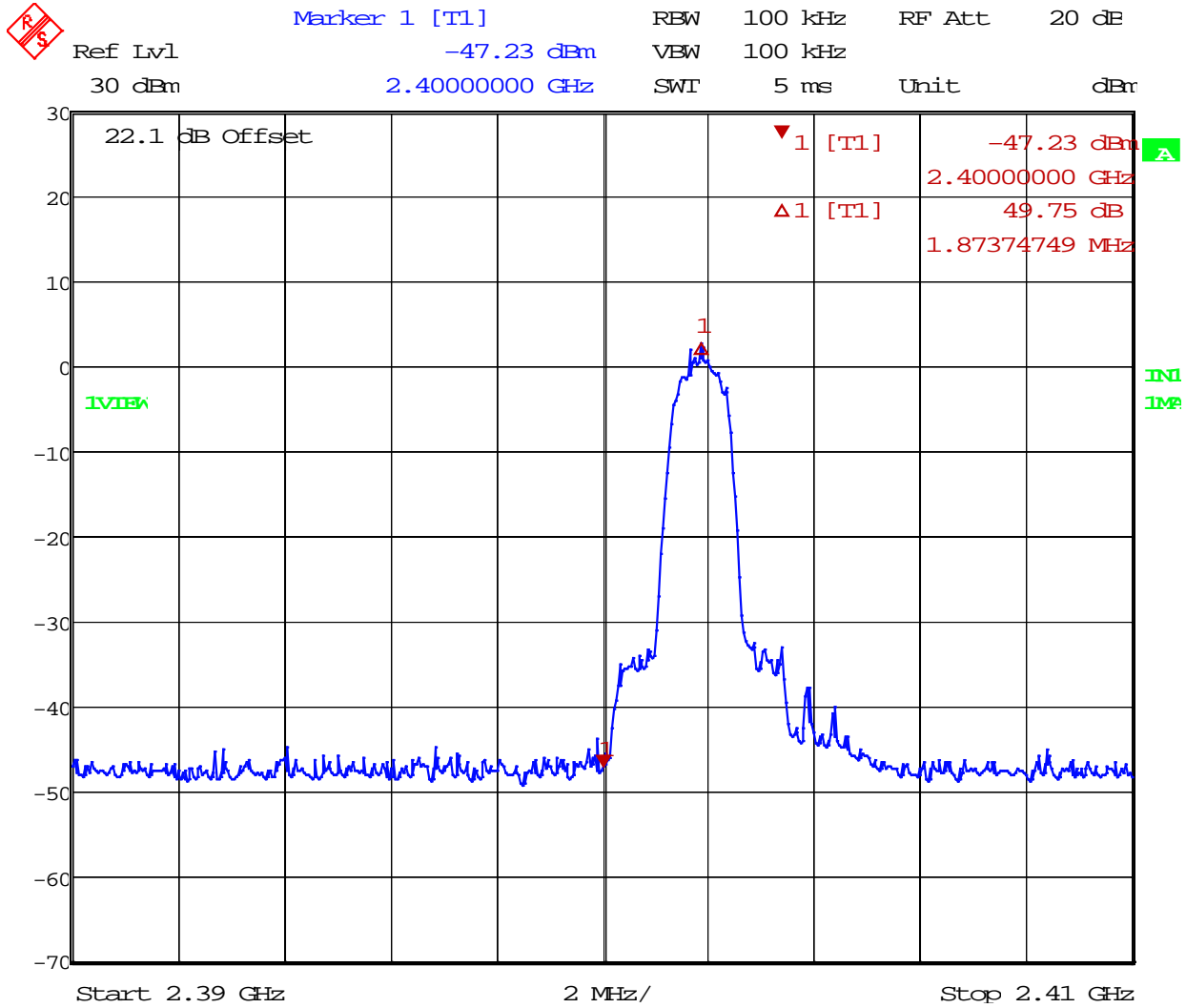


Date: 17.MAR.2015 08:48:36

**Test Data – Spurious Emissions at Antenna Terminals**

Lower Band Edge

$\pi/4$ -DQPSK

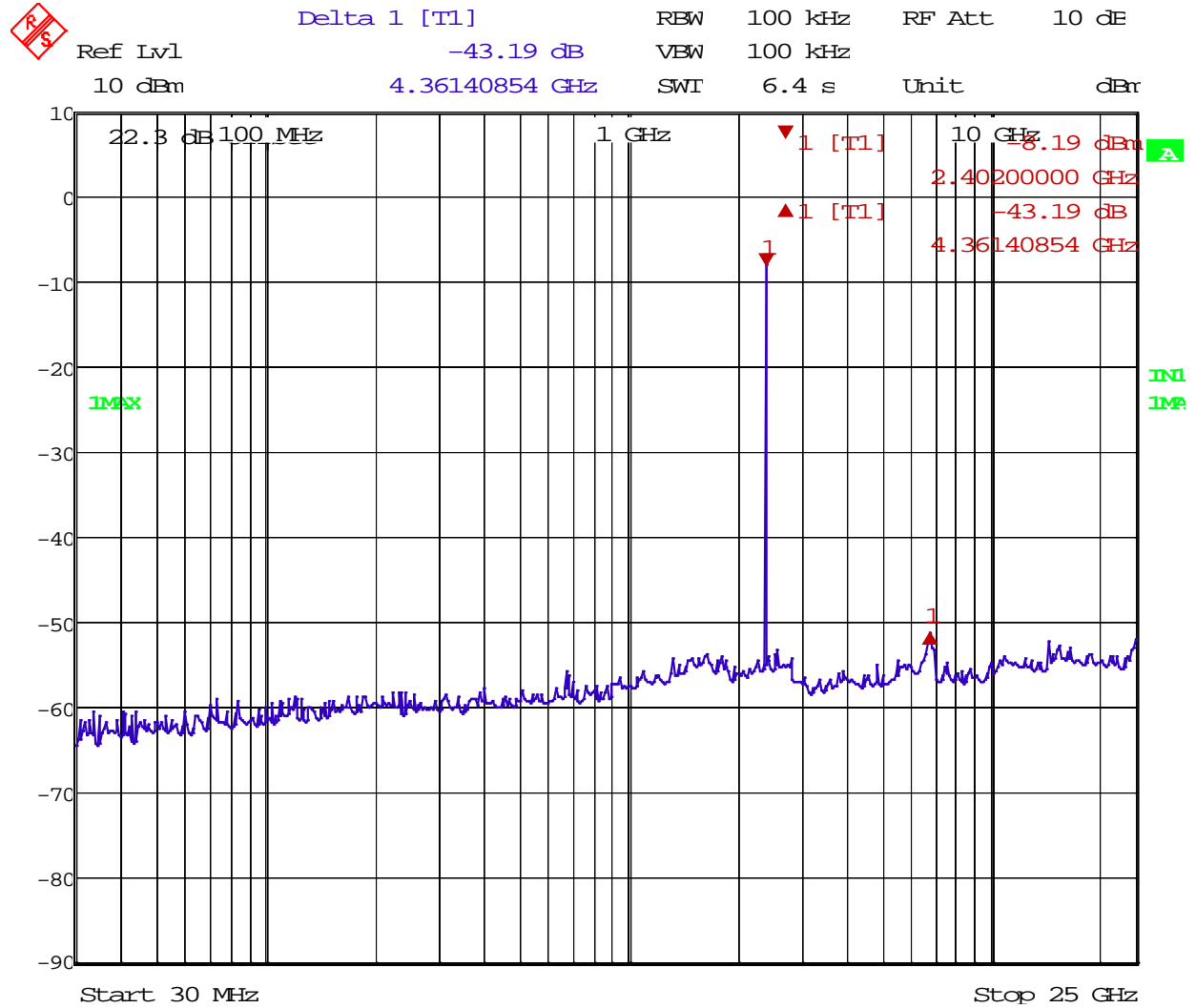


Date: 31.MAR.2015 15:27:42

Test Data – Spurious Emissions at Antenna Terminals

Spurs – Low Channel

$\pi/4$ -DQPSK

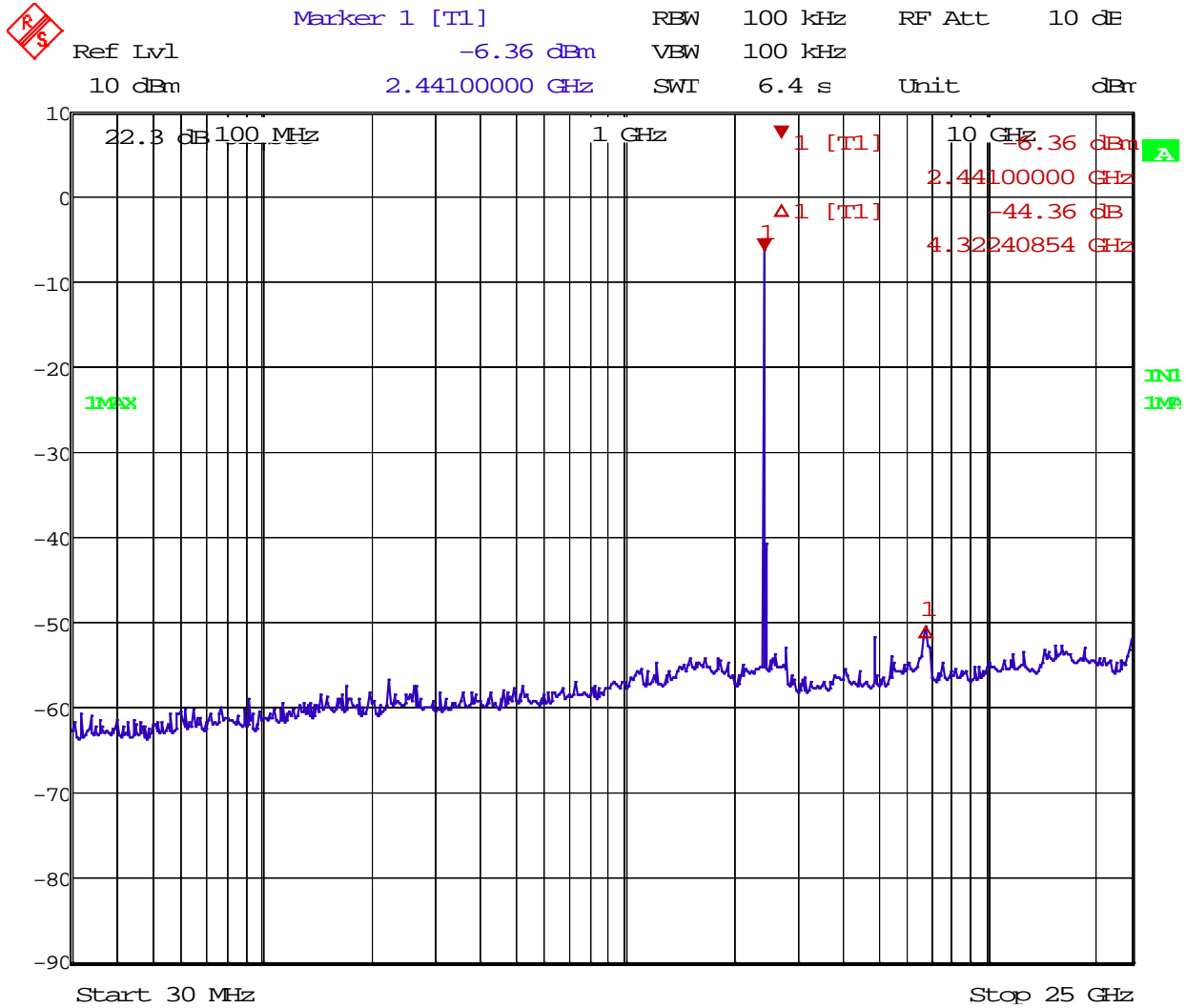


Date: 18.MAR.2015 13:23:31

Test Data – Spurious Emissions at Antenna Terminals

Spurs – Mid Channel

$\pi/4$ -DQPSK

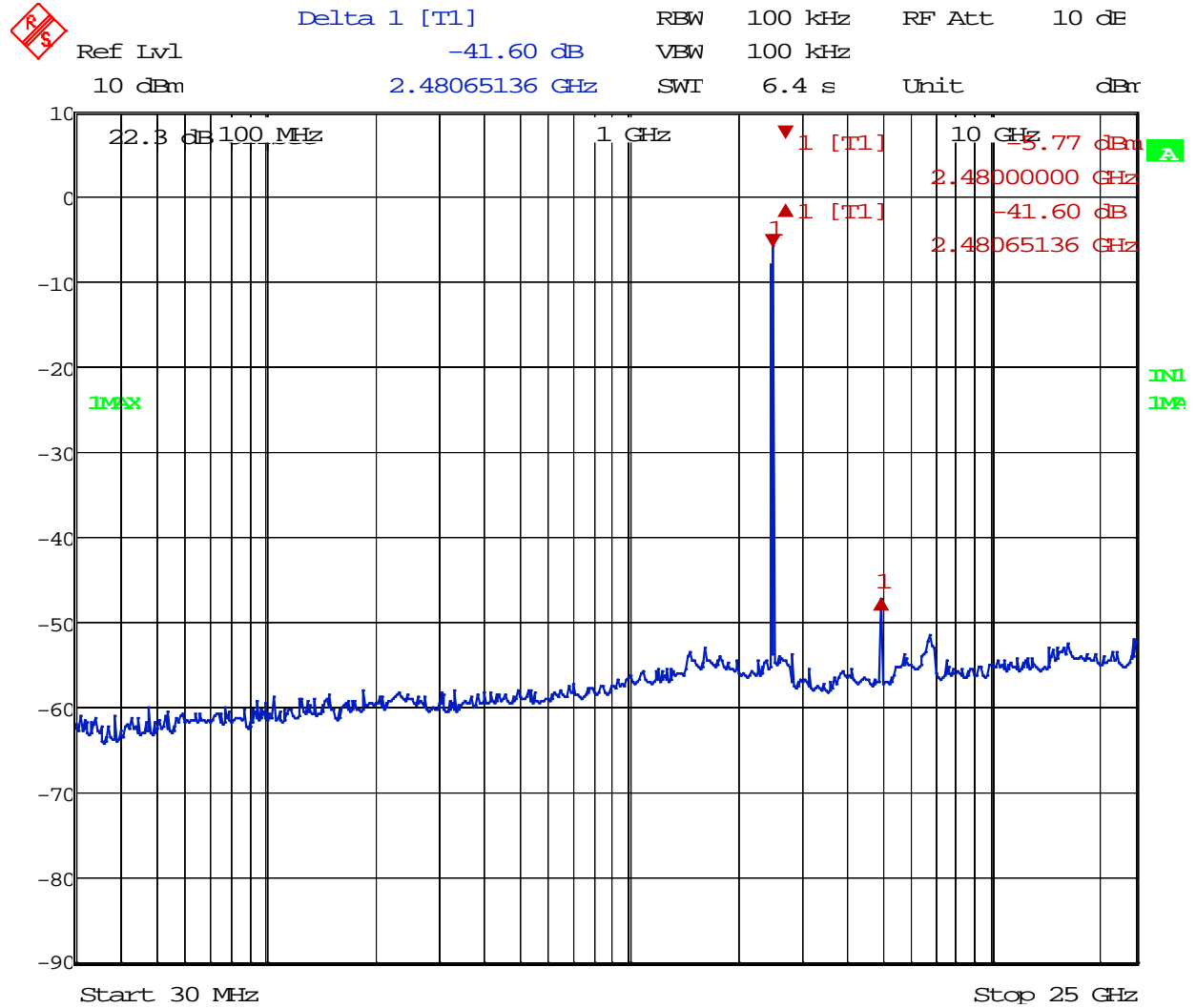


Date: 18.MAR.2015 13:24:22

Test Data – Spurious Emissions at Antenna Terminals

Spurs – High Channel

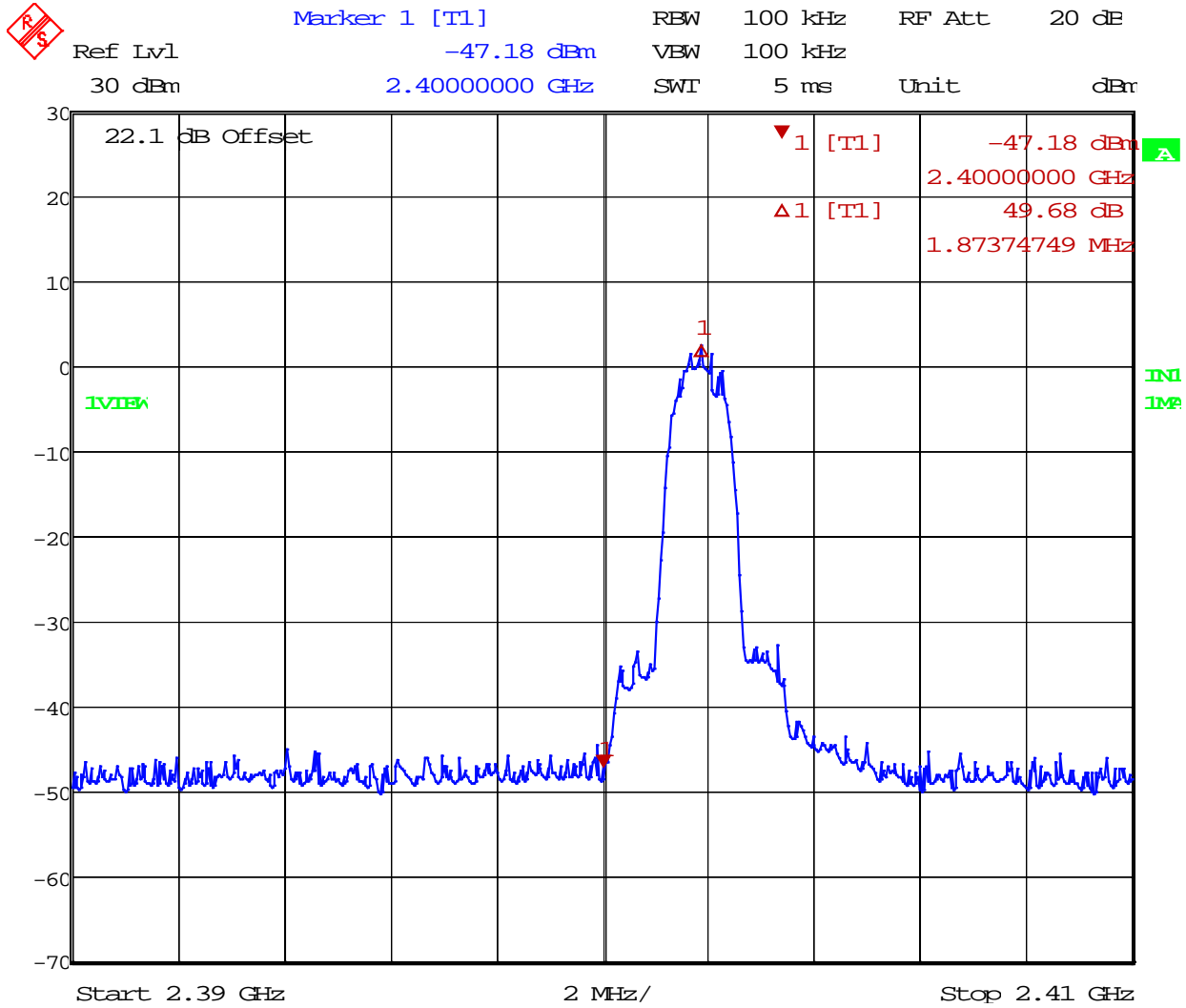
$\pi/4$ -DQPSK



Date: 18.MAR.2015 13:41:07

Test Data – Spurious Emissions at Antenna Terminals

Lower Band Edge  
8-DPSK

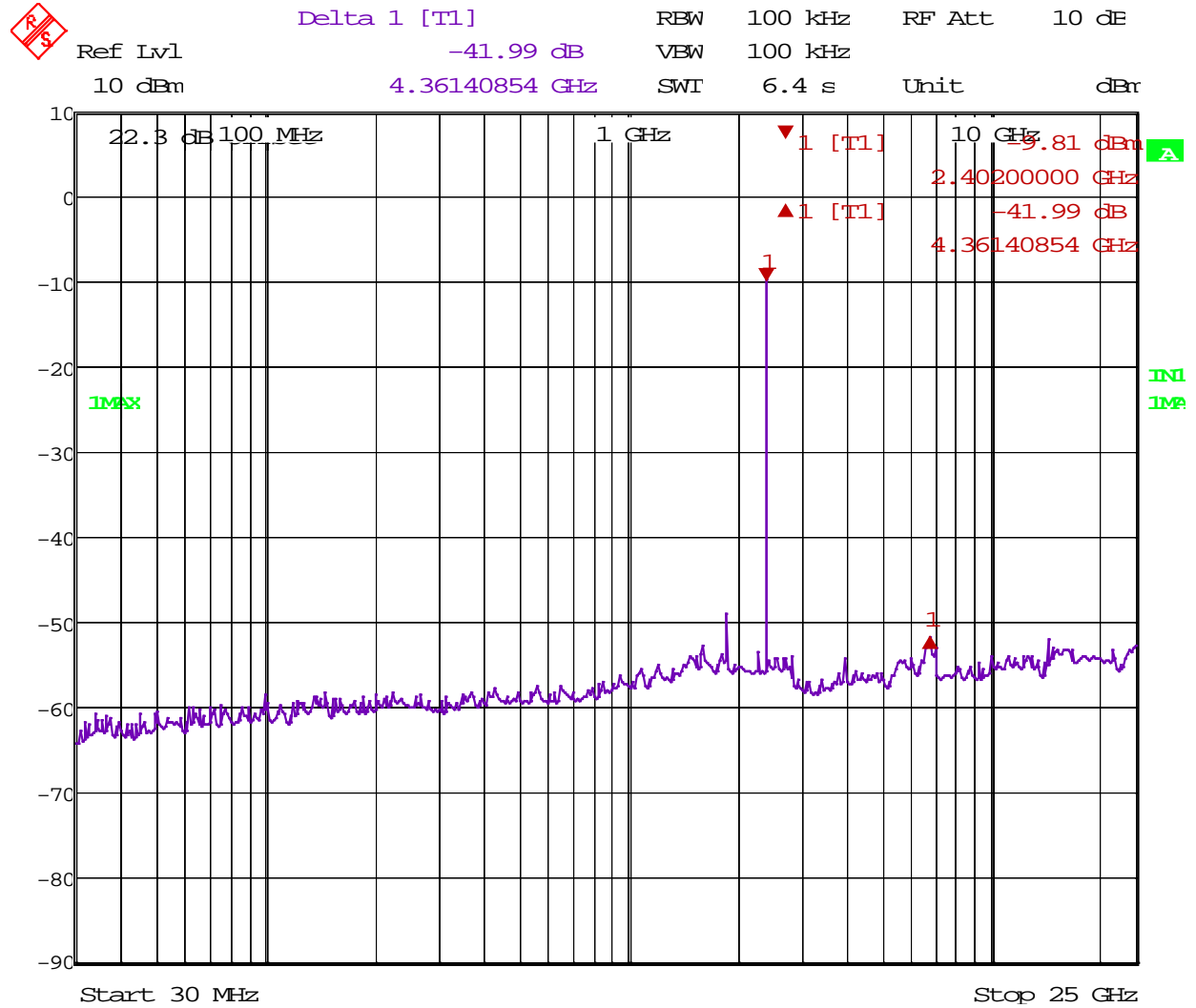


Date: 31.MAR.2015 15:28:35



Test Data – Spurious Emissions at Antenna Terminals

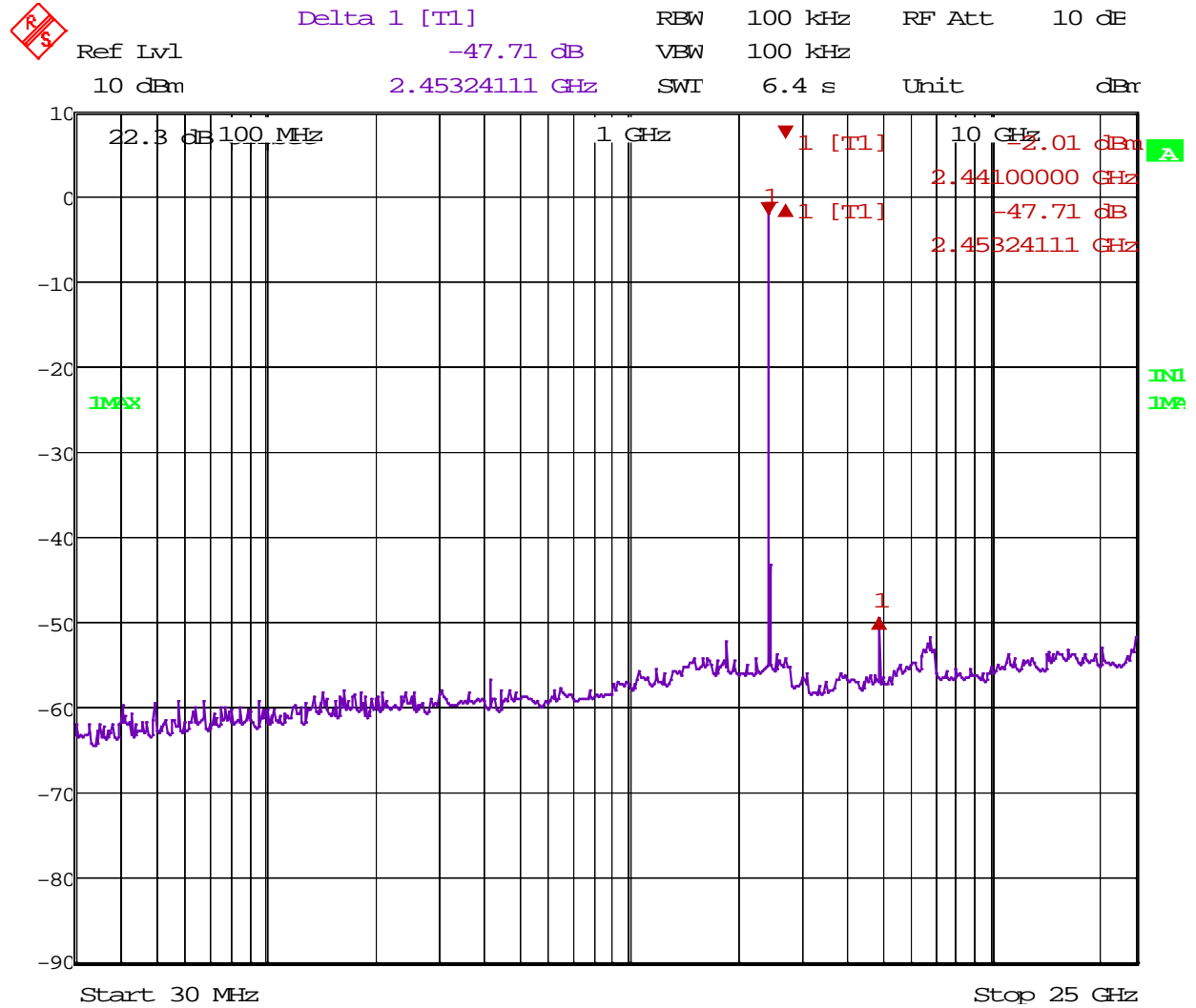
Spurs – Low Channel  
8-DPSK



Date: 18.MAR.2015 13:35:53

**Test Data – Spurious Emissions at Antenna Terminals**

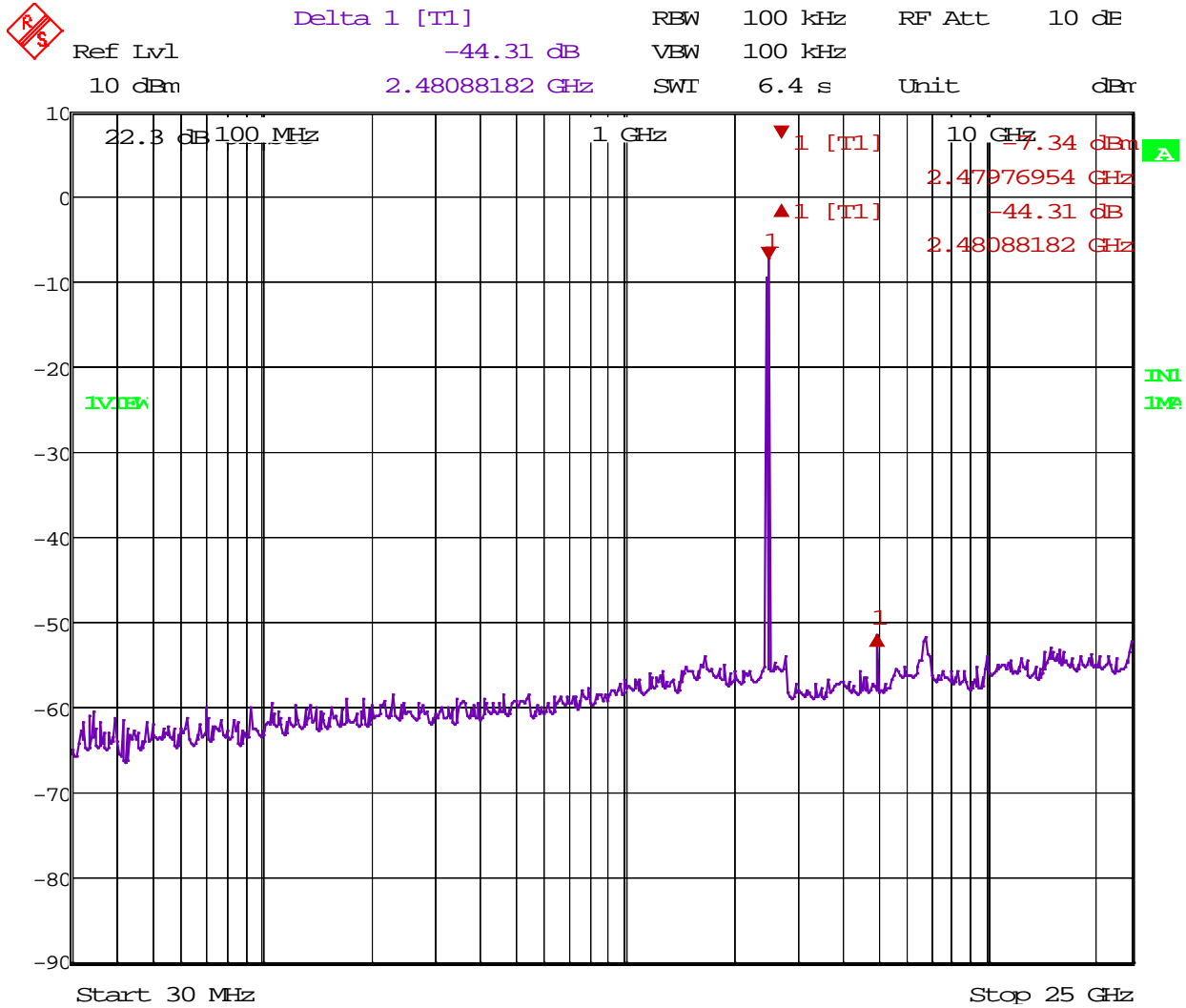
Spurs – Mid Channel  
8-DPSK



Date: 18.MAR.2015 13:35:02

Test Data – Spurious Emissions at Antenna Terminals

Spurs – High Channel  
8-DPSK



Date: 18.MAR.2015 13:32:08

## Section 7. Spurious Emissions (Radiated)

NAME OF TEST: Spurious Emissions (Radiated)	PARA. NO.: 15.247(d)
TESTED BY: David Light	DATE: 17 March 2015

**Test Results:** Complies. The worst case emission was 51.8 dB $\mu$ V/m at 2483.5 MHz. This is 2.2 dB below the specification limit of 54 dB $\mu$ V/m.

**Measurement Data:** See attached table.

### Duty Cycle Calculation:

Duty Cycle correction factor(dB) = 20 log (rf<sub>ON</sub> in ms/100ms)

Notes:

- For handheld devices, the EUT was tested on three orthogonal axis'
- The device was tested from 30 MHz to the tenth harmonic of the highest fundamental frequency per 15.33
- The device was tested on three channels per 15.31(l).
- No emissions were detected within 20 dB of the specification limit therefore none are reported per 15.31(o). Band edge data is presented below.

**Equipment Used:** E1029-529-1480-1036

**Measurement Uncertainty:** +/-3.6 dB

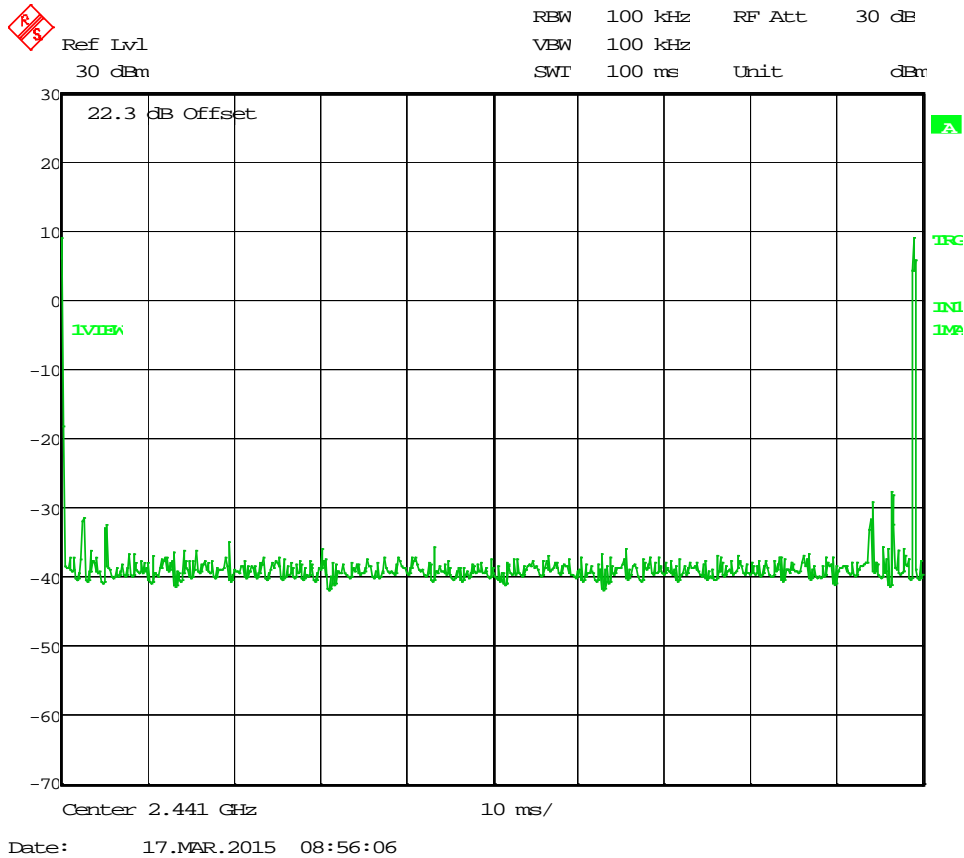
**Temperature:** 21 °C

**Relative Humidity:** 28 %

**Test Data - Radiated Emissions**

Meas. Freq. (MHz)	Ant. Pol. (H/V)	Duty Cycle (dB)	Meter Reading (dBuV)	Antenna Factor (dB)	Path Loss (dB)	RF Gain (dB)	Corrected Reading (dBuV/m)	Spec. limit (dBuV/m)	CR/SL Diff. (dB)	Pass Fail Unc.	Comment
											BT-High Channel
2483.5	H	0.0	36.3	29.9	5.6	0.0	71.8	74.0	-2.2	Pass	
2483.5	H	-20.0	36.3	29.9	5.6	0.0	51.8	54.0	-2.2	Pass	
2483.5	V	0.0	32.5	29.9	5.6	0.0	68.0	74.0	-6.0	Pass	
2483.5	V	-20.0	32.5	29.9	5.6	0.0	48.0	54.0	-6.0	Pass	
4960	V	0.0	40.0	33.7	10.6	30.0	54.3	74.0	-19.7	Pass	
4960	V	-20.0	40.0	33.7	10.6	30.0	34.3	54.0	-19.7	Pass	

**Test Data - Radiated Emissions**



$20 \log (0.8/100) = -41.9 \text{ dB}$

**Section 8. Test Equipment List**

Asset Tag	Description	Manufacturer	Model	Serial #	Last Cal	Next Cal
529	Antenna, DRWG	EMCO	3115	2505	08-Dec-2014	08-Dec-2016
E1029	Preamplifier	A.H. Systems, Inc.	PAM-0118	343	12-Aug-2014	12-Aug-2015
1036	Spectrum Analyzer	Rohde & Schwartz	FSEK30	830844/006	15-Jul-2013	15-Jul-2015
1480	Antenna, Bilog	Schaffner- Chase	CBL6111C	2572	02-Apr-2014	02-Apr-2015

**Nemko USA, Inc.**

FCC PART 15, SUBPART C and  
Industry Canada RSS-210 Issue 8

FREQUENCY HOPPING SPREAD SPECTRUM TRANSMITTER

*EQUIPMENT:* BP2G4A

PROJECT NO.: 2015\_281257B\_FCC\_15247

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## **ANNEX A - TEST DETAILS**

NAME OF TEST: Channel Separation

PARA. NO.: 15.247(a)(1)  
RSS-210 A8.1(b)

**Minimum Standard:**

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.



NAME OF TEST: Time of Occupancy	PARA. NO.: 15.247(a)(1) RSS-210 A8.1(d)
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**Minimum Standard:**

Frequency Band (MHz)	20 dB Bandwidth	No. of Hopping Channels	Average Time of Occupancy
902 - 928	<250 kHz	50	=<0.4 sec. in 20 sec.
902 - 928	=>250 kHz	25	=<0.4 sec. in 10 sec.
2400 - 2483.5	-----	75	=<0.4 sec. in 0.4 seconds multiplied by the number of hopping channels employed.
5725 - 5850	-----	75	=<0.4 sec. in 30 sec.

**Method Of Measurement:**

The spectrum analyzer is set as follows:

- RBW: 1 MHz
- VBW: = RBW
- Span: 0 Hz
- LOG dB/div.: 10 dB
- Sweep: Sufficient to see one hop time sequence.
- Trigger: Video

The occupancy time of one hop is measured as above. The average time of occupancy is calculated over the appropriate period of time from above table

Avg. time of occupancy = (period from table/duration of one hop)/no. of channels multiplied by the duration of one hop.

For instance:

If a 2.4 GHz system has a measured hop duration time of 1 msec. and uses 75 channels, then the average time of occupancy would be:

$$(30 \text{ sec.} / .001 \text{ sec.}) / 75 \text{ chan.} = 400 \times 1 \text{ msec.} = 400 \text{ msec. or } 0.4 \text{ sec. in } 30 \text{ sec.}$$

NAME OF TEST: Occupied Bandwidth

PARA. NO.: 15.247(a)(1)  
RSS-210 A8.1(a)

**Minimum Standard:**

Frequency Band (MHz)	Maximum 20 dB Bandwidth
902 - 928	500 kHz
2400 – 2483.5	Not defined
5725 – 5850	1 MHz

**Method Of Measurement:**

The spectrum analyzer is set as follows:

RBW: At least 1% of span/div.

VBW: >RBW

Span: Sufficient to display 20 dB bandwidth

LOG dB/div.: 10 dB

Sweep: Auto

**Number of channels tested:**

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

NAME OF TEST: Peak Power Output

PARA. NO.: 15.247(b)  
RSS-210 A8.4(2)

**Minimum Standard:**

Frequency Band (MHz)	No. of Hopping Channels	Maximum Peak Power Output at Antenna Port
902 - 928	at least 50	1 watt
902 – 928	25 - 49	0.25 watts
2400 – 2483.5	75	1 watt
5725 – 5850	75	1 watt

If transmitting antennas of directional gain greater 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.

Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point to point operation may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceed 6 dBi.

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

**Direct Measurement Method For Detachable Antennas:**

If the antenna is detachable, a peak power meter is used to measure the power output with the transmitter operating into a 50 ohm load. The dBi gain of the antenna(s) employed shall be reported.

**Calculation Of EIRP For Integral Antenna:**

If the antenna is not detachable from the circuit then the Peak Power Output is derived from the peak radiated field strength of the fundamental emission by using the plane wave relation  $GP/4\pi R^2 = E^2/120\pi$  and proceeding as follows:

$$P = \frac{E^2 R^2}{30G} = \frac{E^2 3^2}{30G}$$

where,

P = the equivalent isotropic radiated power in watts

E = the maximum measured field strength in V/m

R = the measurement range (3 meters)

G = the numeric gain of the transmit antenna in relation to an isotropic radiator

The RBW of the spectrum analyzer shall be set to a value greater than the measured 20 dB occupied bandwidth of the E.U.T.

Number of channels tested:

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

NAME OF TEST: Spurious Emissions at Antenna Terminals      PARA. NO.: 15.247(d)  
RSS-210 A8.5

**Minimum Standard:**      In any 100kHz bandwidth outside the frequency band in which the transmitter is operating, emissions shall be at least 20 dB below the fundamental emission or shall not exceed the following field strength limits. Emissions falling in the restricted bands of 15.205 shall not exceed the following field strength limits:

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

**THE SPECTRUM WAS SEARCHED TO THE 10th HARMONIC**

**Method Of Measurement:**

30 MHz - 10th harmonic plot

RBW: 100 kHz

VBW: 300 kHz

Sweep: Auto

Display line: -20 dBc

Lower Band Edge

RBW: At least 1% of span/div.

VBW: >RBW

Span: As necessary to display any spurious at band edge.

Sweep: Auto

Center Frequency: 902 MHz, 2400 MHz, or 5725 MHz

Marker: Peak of fundamental emission

Marker  $\Delta$ : Peak of highest spurious level below center frequency.

Upper Band Edge

RBW: At least 1% of span/div.

VBW: >RBW

Span: As necessary to display any spurious at band edge.

Sweep: Auto

Center Frequency: 928 MHz, 2483.5 MHz, or 5850 MHz

Marker: Peak of fundamental emission

Marker  $\Delta$ : Peak of highest spurious level above center frequency.

Number of channels tested:

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

NAME OF TEST: Radiated Spurious Emissions	PARA. NO.: 15.247(d) RSS-Gen 7.2.2
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**Minimum Standard:** Emissions falling in the restricted bands shall not exceed the following field strength limits:

Frequency (MHz)	Field Strength (µV/m @ 3m)	Field Strength (dB @ 3m)
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

**THE SPECTRUM WAS SEARCHED TO THE 10th HARMONIC**

**15.205 Restricted Bands**

MHz	MHz	MHz	GHz
0.09-0.11	16.42-16.423	399.9-410	4.5-5.25
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.125-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2655-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41	1718		

Number of channels tested:

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

**Nemko USA, Inc.**

FCC PART 15, SUBPART C and  
Industry Canada RSS-210 Issue 8

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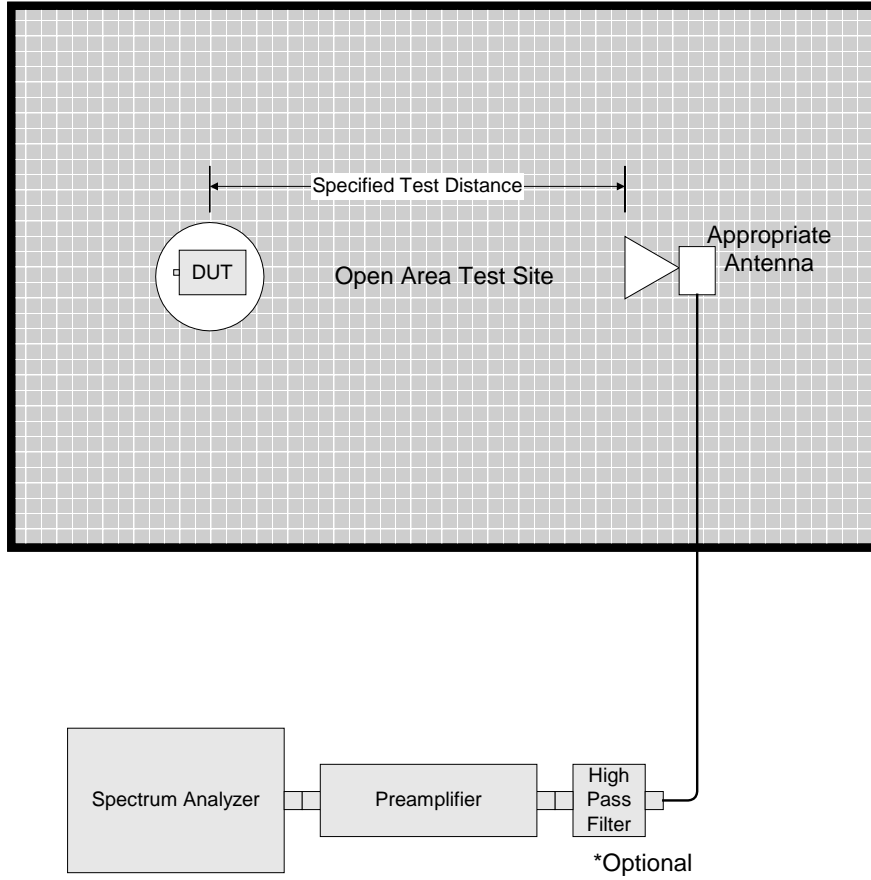
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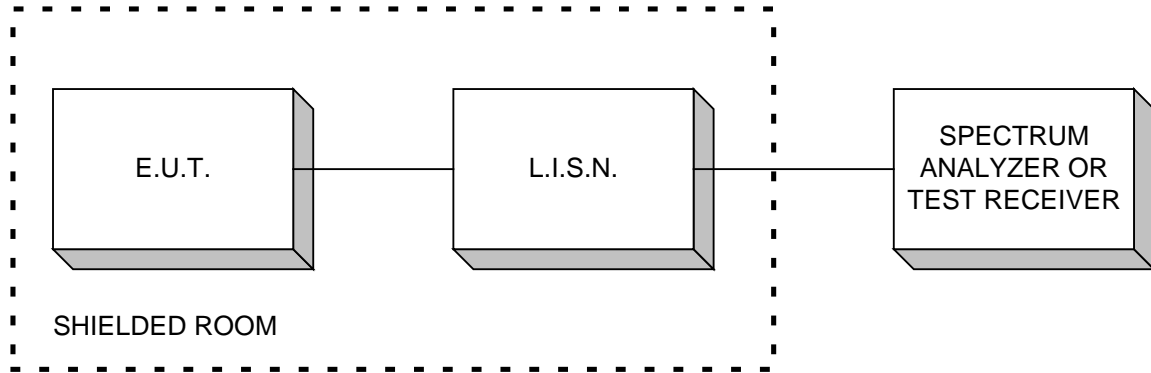
## **ANNEX B - TEST DIAGRAMS**

**Test Site For Radiated Emissions**





**Conducted Emissions**



**Measurements at Antenna Terminals**

