



FCC Test Report

FOR:

Model Name: P121UEU
FCC ID: O8F-PIXYW
47 CFR Part 15.247

TEST REPORT #: EMC_PALMO_070_09001_15.247_BT_Conducted_rev1
DATE: 2010-03-16



FCC listed
A2LA Accredited
IC recognized #
3462B

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TABLE OF CONTENTS

1	Assessment	4
2	Administrative Data	5
2.1	Identification of the Testing Laboratory Issuing the EMC Test Report	5
2.2	Identification of the Client	5
2.3	Identification of the Manufacturer	5
3	Equipment under Test (EUT)	6
3.1	Specification of the Equipment under Test	6
3.2	Identification of the Equipment Under Test (EUT)	7
3.3	Identification of Accessory equipment	7
4	Subject Of Investigation	8
5	Measurements	9
5.1	Conducted Measurement Procedure	9
5.2	Maximum Peak Output Power	10
5.2.1	Limits: §15.247 (b)(1)	10
5.2.2	Test Conditions:	10
5.2.3	Test Result:	10
5.2.4	Test Data/plots:	11
5.3	Spectrum Bandwidth/ 20dB Bandwidth	20
5.3.1	Limits: § 15.247 (a)(1)	20
5.3.2	Test Result:	20
5.3.3	Test Data/plots:	21
5.4	Carrier Frequency Separation	30
5.4.1	Limits: § 15.247 (a) (1)	30
5.4.2	Test Result:	30
5.4.3	Test Data/plot:	30
5.5	Number of hopping channels	31
5.5.1	Limits: § 15.247 (a) (1)	31
5.5.2	Test Result:	31
5.5.3	Test Data/plot:	31
5.6	Time of occupancy (Dwell time)	35
5.6.1	Limits: § 15.247 (a) (1) (iii)	35
5.6.2	Test Result:	35
5.7	Power Spectral Density (Hybrid system in Inquiry mode/ Page scan)	36
5.7.1	Limits: § 15.247 (e)	36
5.7.2	Test Result:	36
5.7.3	Test Plots	37
5.8	Transmitter Spurious Emissions- Conducted	46
5.8.1	Limits: § 15.247 (d)	46
5.8.2	Test Conditions:	46
5.8.3	Test data/ plots:	46

Test Report #: EMC_PALMO_070_09001_15.247_BT_Conducted_rev1

Date of Report : 2010-03-16

Page 3 of 53



5.8.4 Test data/ plots: _____ 47

6 *Test Equipment and Ancillaries used for tests* _____ 51

7 *BLOCK DIAGRAMS* _____ 52

8 *Revision History* _____ 53

1 Assessment

The following is in compliance with the applicable criteria specified in FCC rules Parts 15.247 of Title 47 of the Code of Federal Regulations. Only conducted measurements are reported here.

Company	Description	Model #
Palm, Inc	GSM Phone with 802.11 b/g and Bluetooth	P121UEU

Responsible for Testing Laboratory:

2010-03-16	Compliance	Marc Douat (Test Lab Manager)	
Date	Section	Name	Signature

Responsible for the Report:

2010-03-16	Compliance	Josie Sabado (Project Engineer)	
Date	Section	Name	Signature

The test results of this test report relate exclusively to the test item specified in Section 3.

CETECOM Inc. USA does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM Inc USA.

2 Administrative Data

2.1 Identification of the Testing Laboratory Issuing the EMC Test Report

Company Name:	CETECOM Inc.
Department:	Compliance
Address:	411 Dixon Landing Road Milpitas, CA 95035 U.S.A.
Telephone:	+1 (408) 586 6200
Fax:	+1 (408) 586 6299
Responsible Test Lab Manager:	Heiko Strehlow
Responsible Project Leader:	Josie Sabado

2.2 Identification of the Client

Applicant's Name:	Palm, Inc.
Street Address:	950 W. Maude Ave
City/Zip Code	Sunnyvale, CA 94085-2801
Country	USA
Contact Person:	Julia Luke
Phone No.	(408) 617-8597
e-mail:	Julia.Luke@palm.com

2.3 Identification of the Manufacturer

Same as above client.

3 Equipment under Test (EUT)

3.1 Specification of the Equipment under Test

Model No:	P121UEU
Product Type:	GSM Cellular Phone
Hardware Revision :	DVT2B
Software Revision :	Utility Software Build: 920
FCC-ID:	O8F-PIXYW
Frequency:	2400-2483.5 MHz
Type(s) of Modulation:	GFSK, $\pi/4$ DQPSK, 8- DPSK
Number of channels:	79
Antenna Type:	Integral
Equipment Classification:	☐ Fixed ☐ Vehicular ☒ Portable ☐ Module

3.2 Identification of the Equipment Under Test (EUT)

EUT #	Serial Number	HW Version	SW Version	Comments
1	PD2BNBN98101	DVT2B	Utility Software Build: 920	Radiated sample
2	PD2BNBR98112	DVT2B	Utility Software Build: 920	Conducted sample

3.3 Identification of Accessory equipment

AE #	Type	Manufacturer	Model	Serial Number	Part Number
1	Battery	Palm	N/A	D298AW18D1BDC090810	157-10119-00
2	Inductive Charging Dock	Palm	N/A	N/A	157-10123-00
3	Inductive Back Cover	Palm	N/A	P29BJ0L4C4A	180-10763-00
4	Headset	Palm	N/A	N/A	180-10632-00
5	AC Adapter #24	Palm	N/A	2B9840MTP2A	157-10124-00
6	AC Adapter #30	Palm	N/A	F298R03TP34	157-10130-00
7	USB Cable	Palm	N/A	N/A	180-10646-00

4 Subject Of Investigation

The objective of the measurements done by Cetecom Inc. was to measure the performance of the EUT as specified by requirements listed in FCC rules Part 15.247 of Title 47 of the Code of Federal Regulations.

This test report is to support a request for new equipment authorization under the FCC ID **O8F-PIXYW**. All testing was performed on the product referred to in Section 3 as EUT. This test report contains full conducted testing results as per FCC15.247.

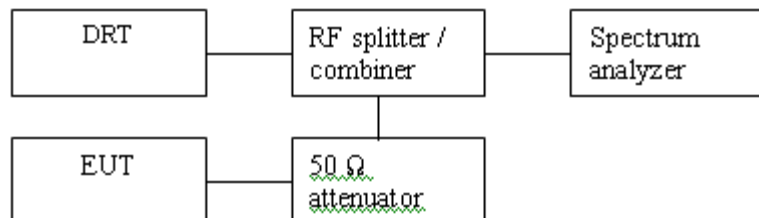
During the testing process the EUT was tested on a single channel using DH5, 2DH5 or 3DH5 packets, all data in this report shows the worst case between horizontal and vertical polarization measurements.

Only conducted measurements shown here.

Replaces previous report number **EMC_PALMO_070_09001_15.247_BT_Conducted**

5 Measurements

5.1 Conducted Measurement Procedure



1. Connect the equipment as shown in the above diagram.
2. Adjust the settings of the Digital RadioCommunication Tester (DRT) to set the EUT to its maximum power at the required channel.
3. Measurements are to be performed with the EUT set to the low, middle and high channels.

5.2 Maximum Peak Output Power

5.2.1 Limits: §15.247 (b)(1)

Nominal Peak Output Power < 30 dBm (1W)

5.2.2 Test Conditions:

T_{nom}: 23°C; V_{nom}: 3.7 V

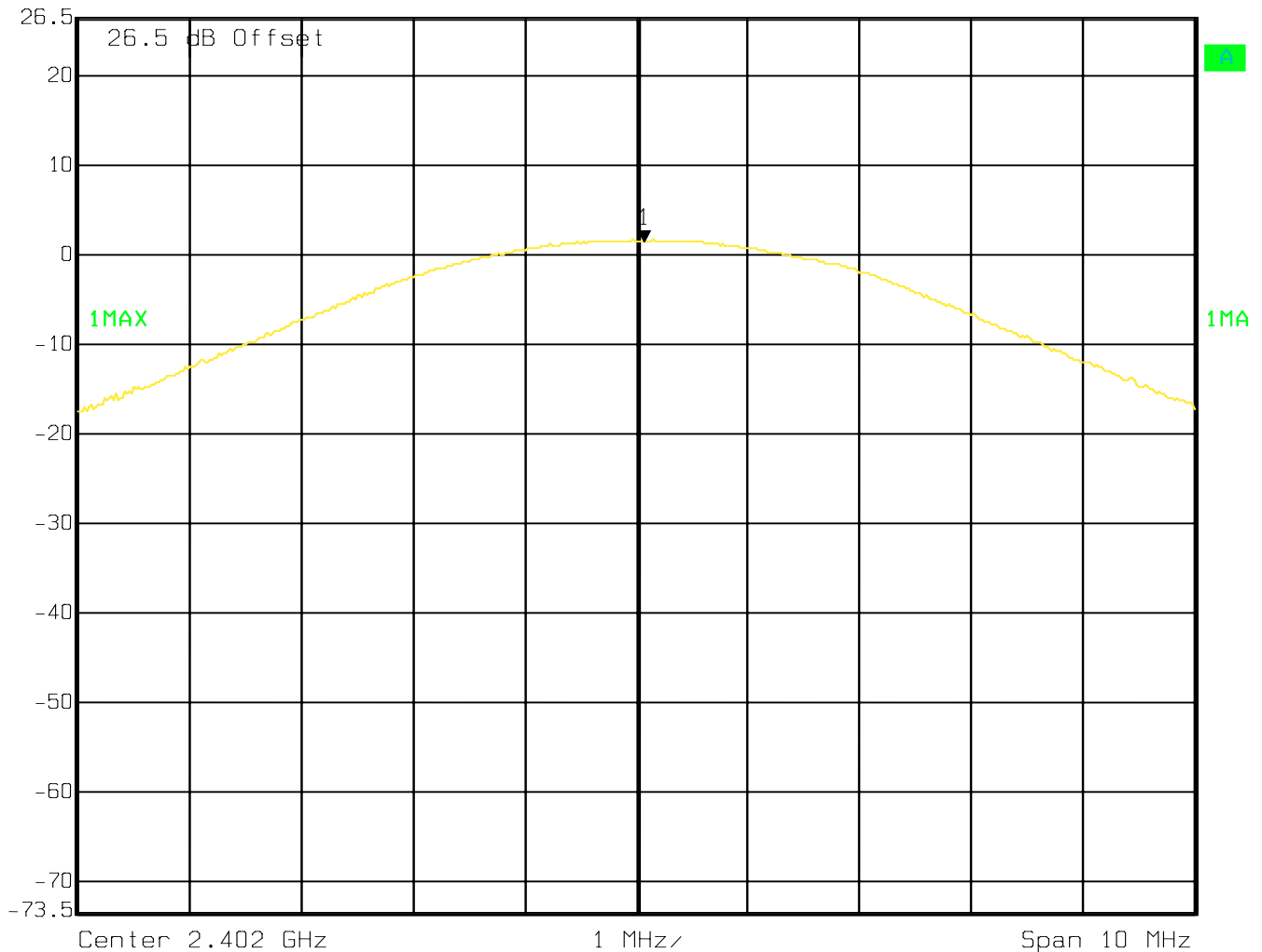
5.2.3 Test Result:

Max Peak Output Power- Conducted (dBm)			
Modulation	Frequency (MHz)		
	2402	2442	2480
GFSK	1.46	1.35	0.62
$\pi/4$ DQPSK	1.29	0.86	-0.10
8-DPSK	1.58	1.21	0.21
Measurement Uncertainty: ± 0.5 dB			

5.2.4 Test Data/plots:

Conducted Peak Power GFSK 2402 MHz

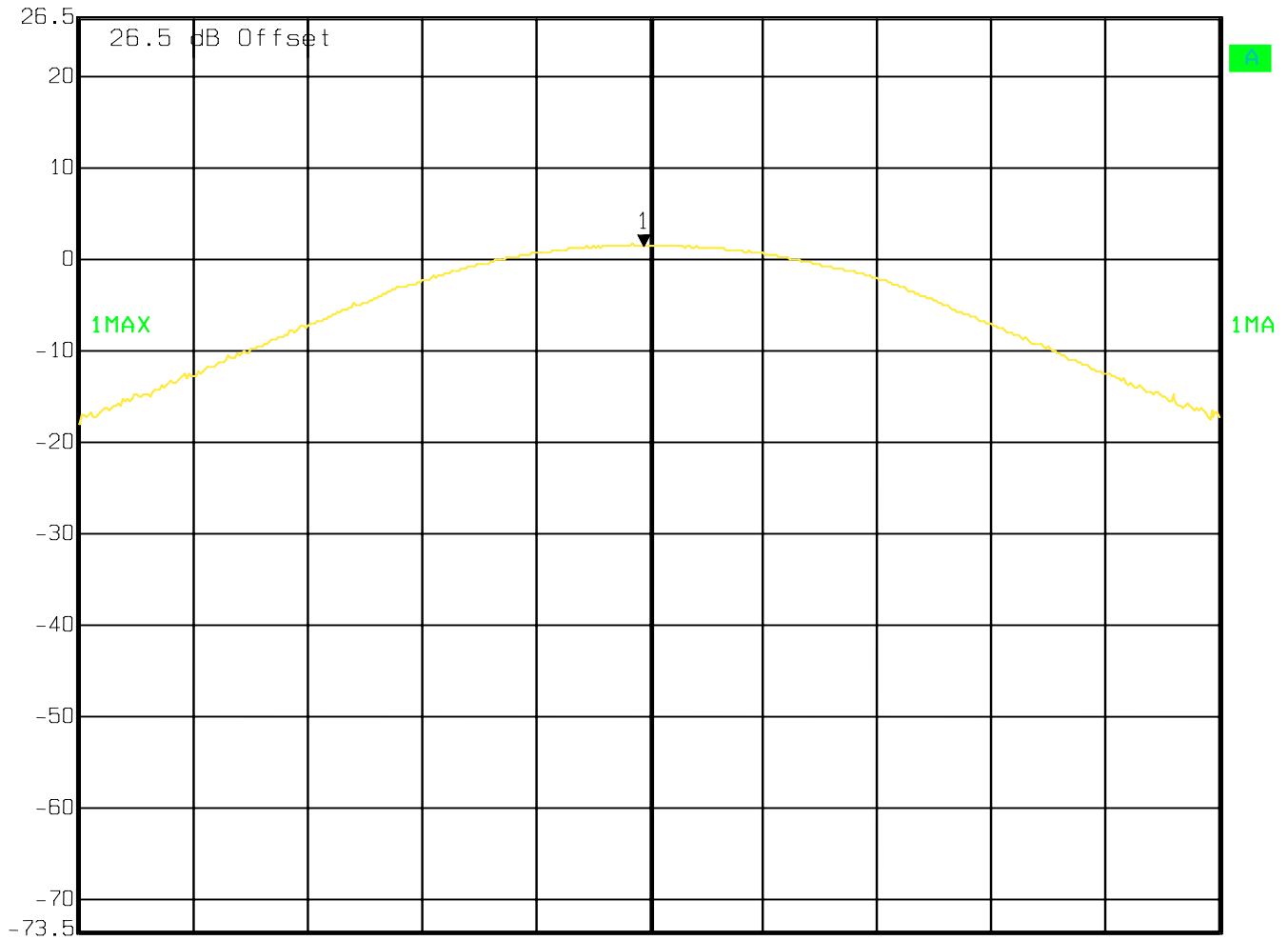

 Ref Lvl 26.5 dBm
 Marker 1 [T1] 1.46 dBm
 RBW 3 MHz RF Att 30 dB
 VBW 3 MHz
 2.40207014 GHz
 SWT 5 ms Unit dBm



Date: 04.JAN.2010 09:56:38

Conducted Peak Power GFSK 2441 MHz


 Ref Lvl 26.5 dBm
 Marker 1 [T1] 1.35 dBm
 2.44094990 GHz
 RBW 3 MHz RF Att 30 dB
 VBW 3 MHz
 SWT 5 ms Unit dBm



Center 2.441 GHz

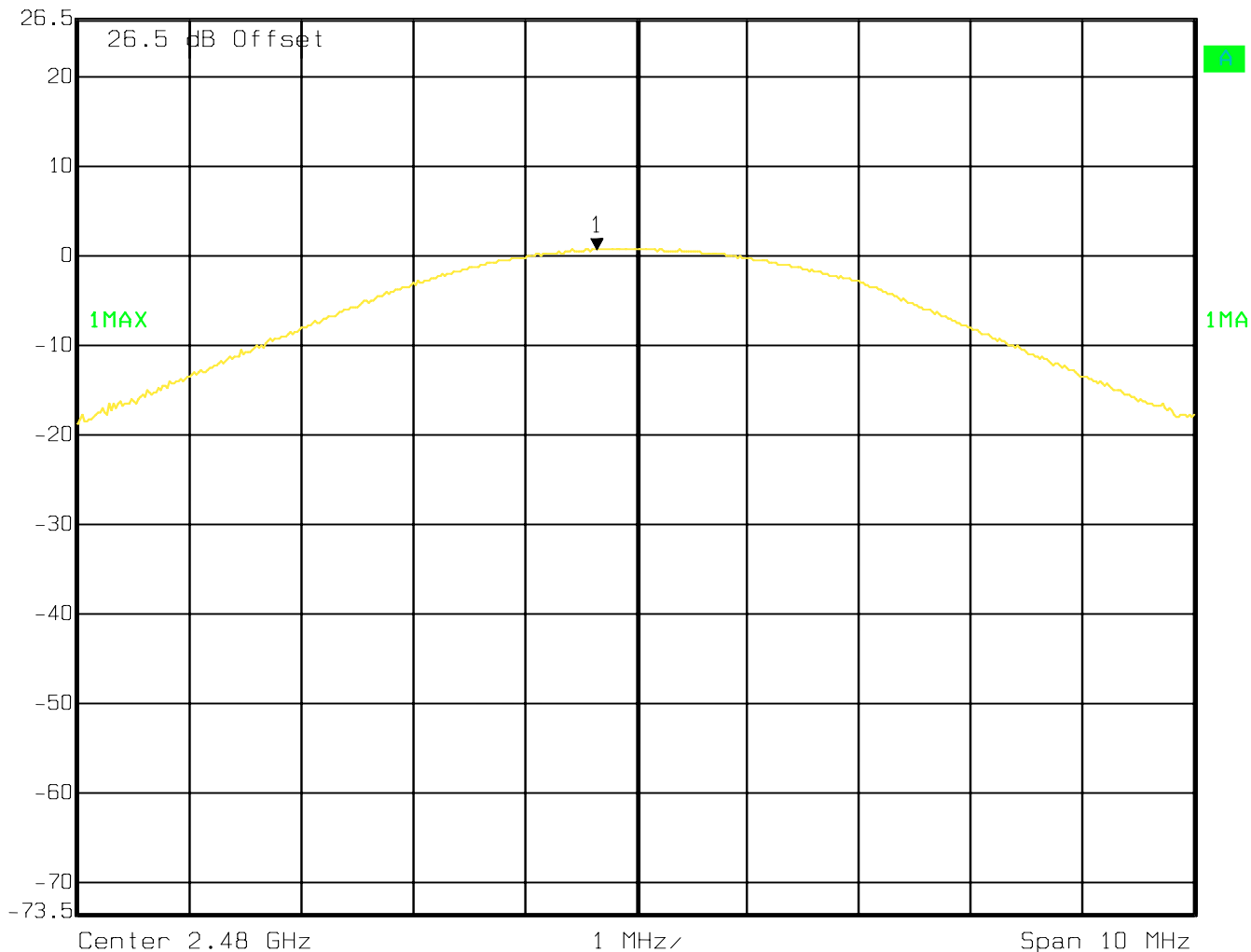
1 MHz

Span 10 MHz

Date: 04.JAN.2010 11:33:53

Conducted Peak Power GFSK 2480 MHz


 Ref Lvl 26.5 dBm
 Marker 1 [T1] 0.62 dBm
 RBW 3 MHz RF Att 30 dB
 VBW 3 MHz
 2.47964930 GHz SWT 5 ms Unit dBm

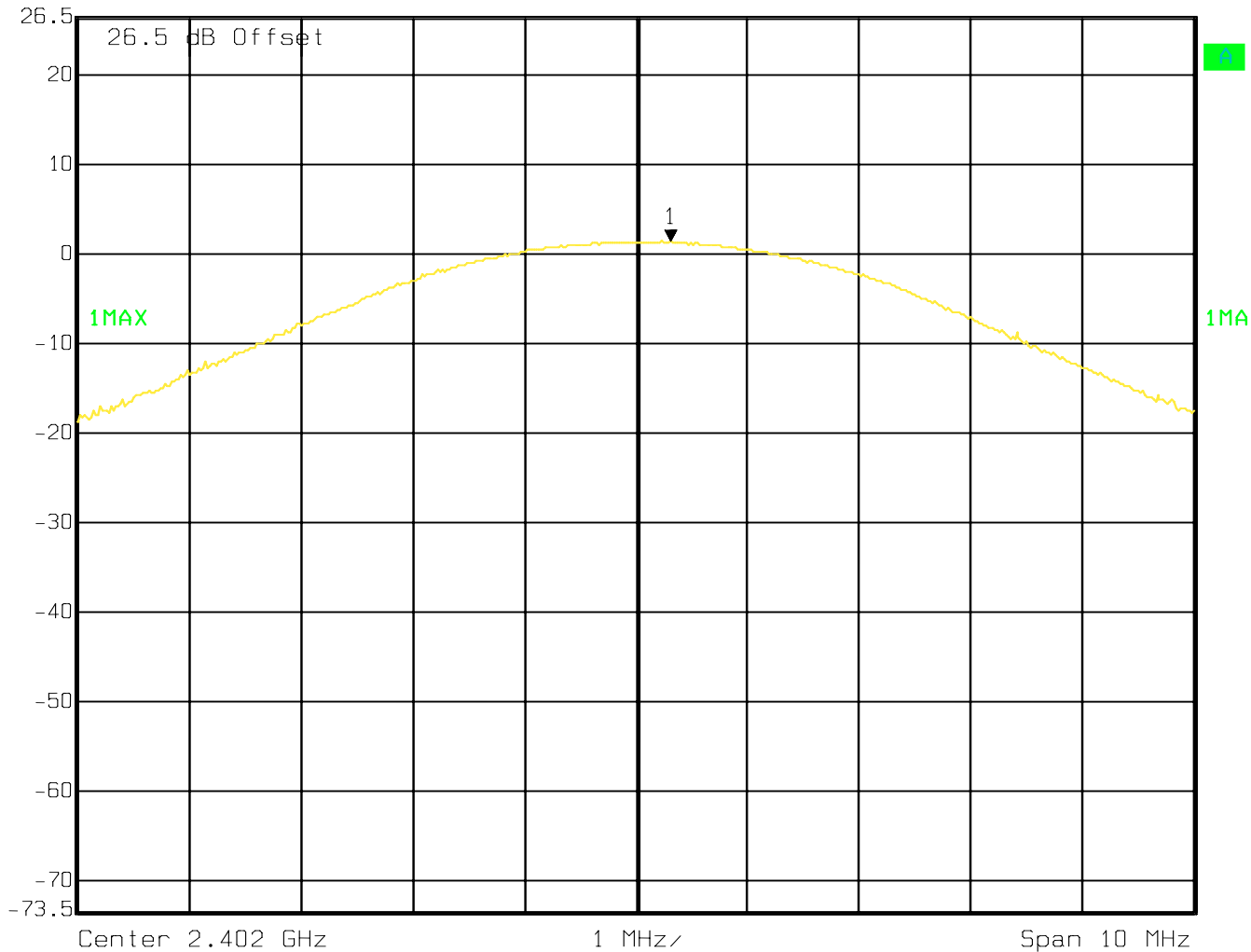


Date: 04.JAN.2010 11:39:01

Conducted Peak Power $\pi / 4$ DQPSK 2402 MHz



Ref Lvl 26.5 dBm
 Marker 1 [T1] 1.29 dBm
 2.40231062 GHz
 RBW 3 MHz RF Att 30 dB
 VBW 3 MHz
 SWT 5 ms Unit dBm

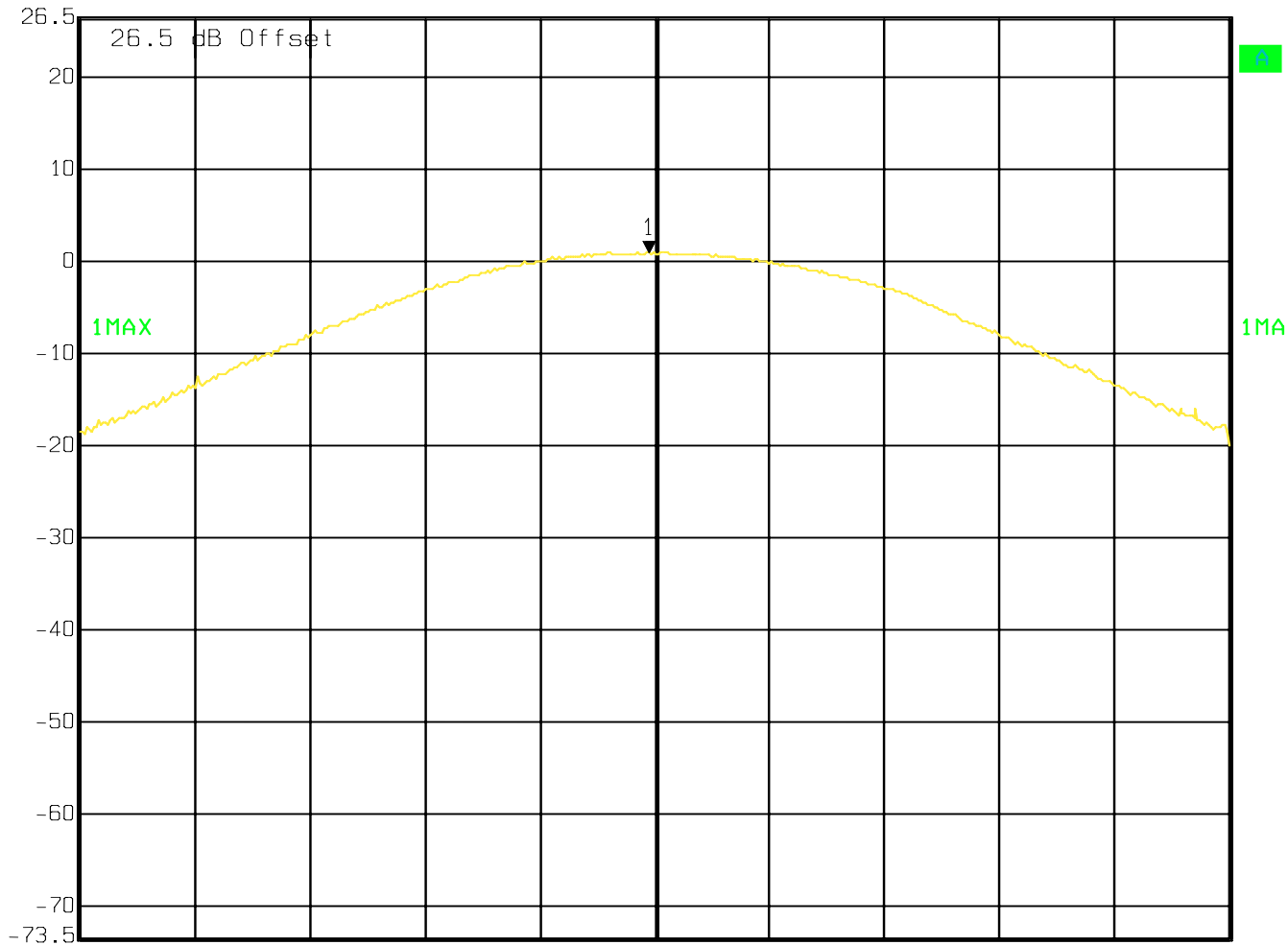


Date: 04.JAN.2010 11:43:18

Conducted Peak Power $\pi / 4$ DQPSK 2441 MHz



Ref Lvl 26.5 dBm
 Marker 1 [T1] 0.86 dBm
 RBW 3 MHz RF Att 30 dB
 VBW 3 MHz
 2.44094990 GHz
 SWT 5 ms Unit dBm



Center 2.441 GHz

1 MHz

Span 10 MHz

Date: 04.JAN.2010 11:42:08

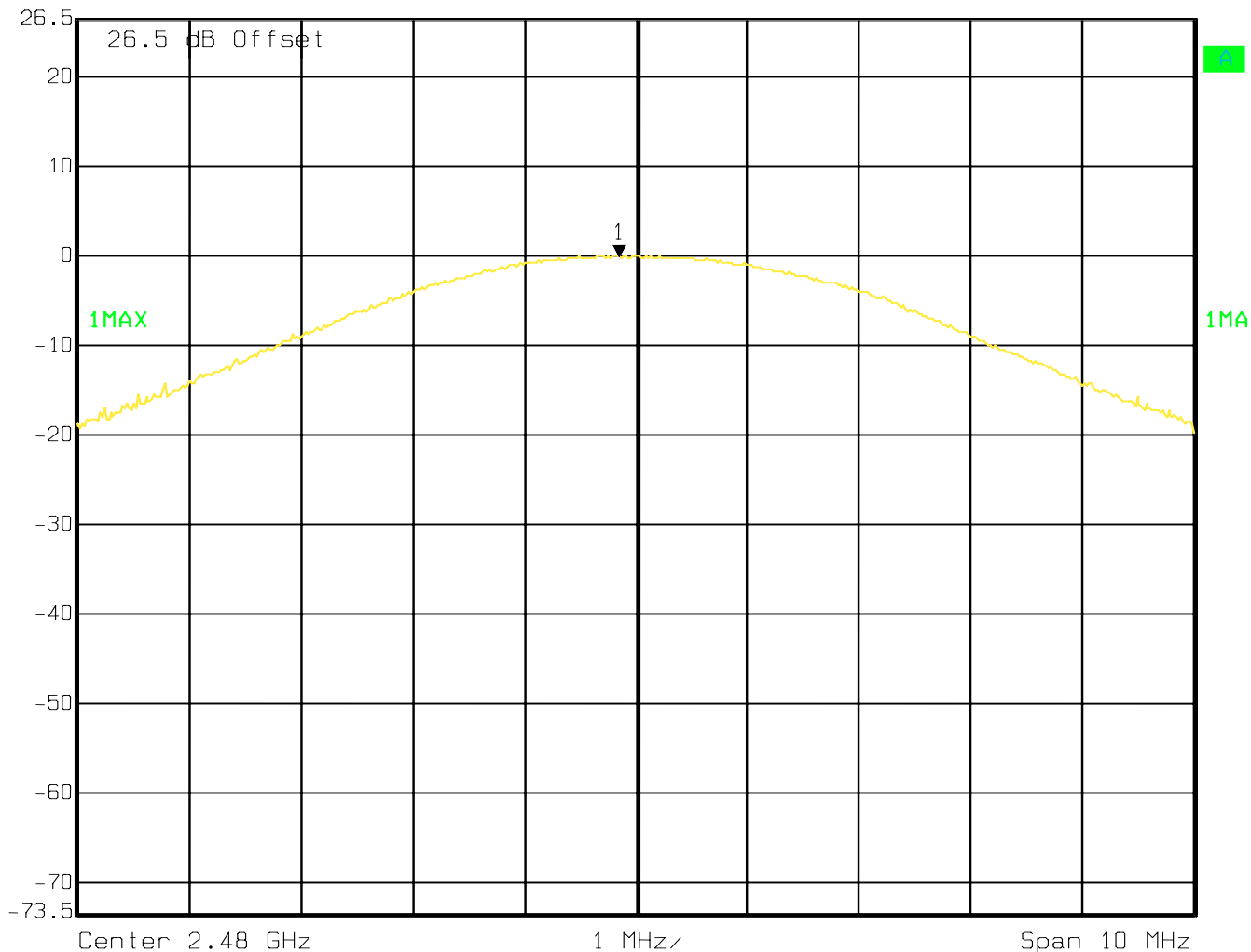
Conducted Peak Power $\pi / 4$ DQPSK 2480 MHz



Ref Lvl
26.5 dBm

Marker 1 [T1]
-0.10 dBm
2.47984970 GHz

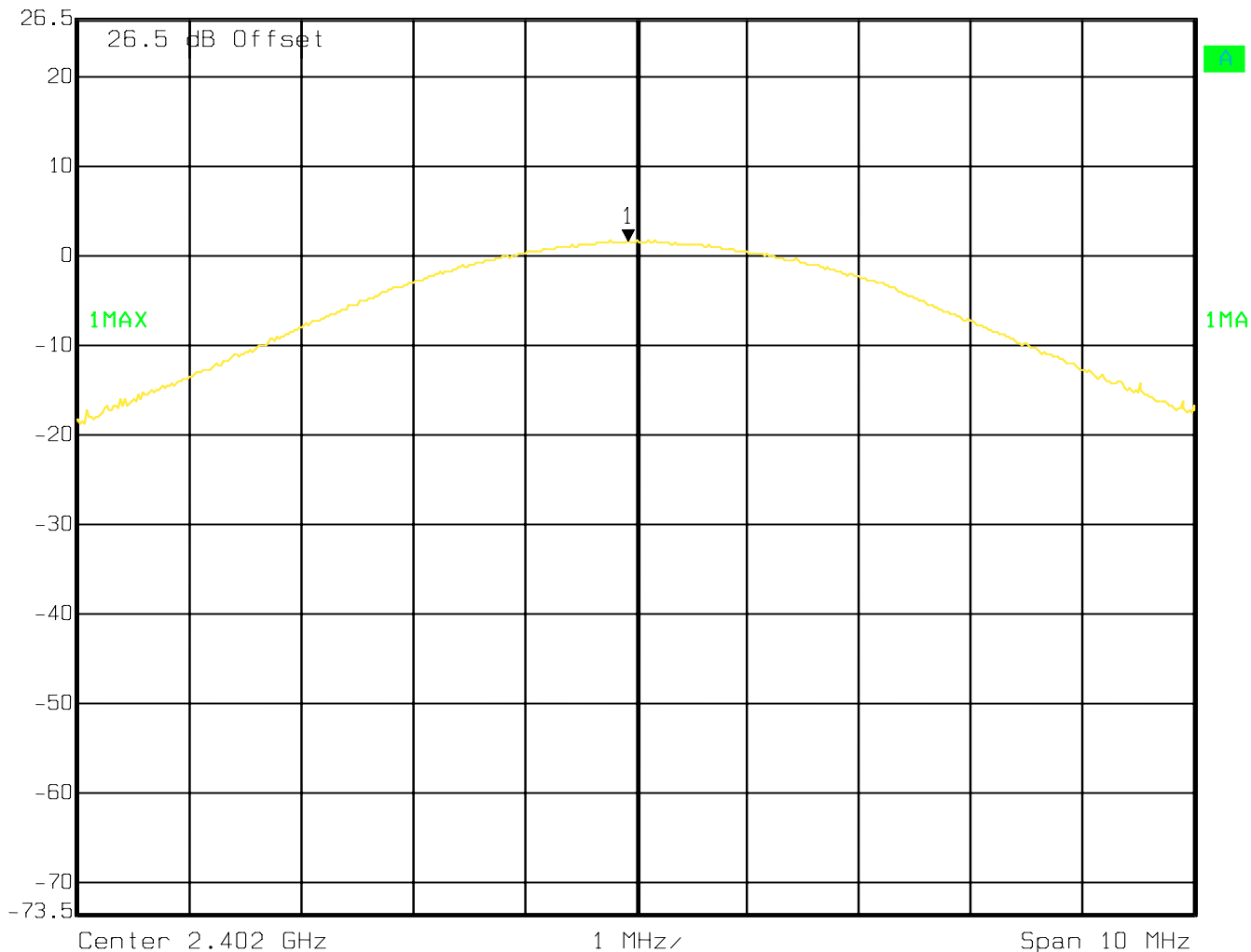
RBW 3 MHz RF Att 30 dB
VBW 3 MHz
SWT 5 ms Unit dBm



Date: 04.JAN.2010 11:40:54

Conducted Peak Power 8DPSK 2402 MHz

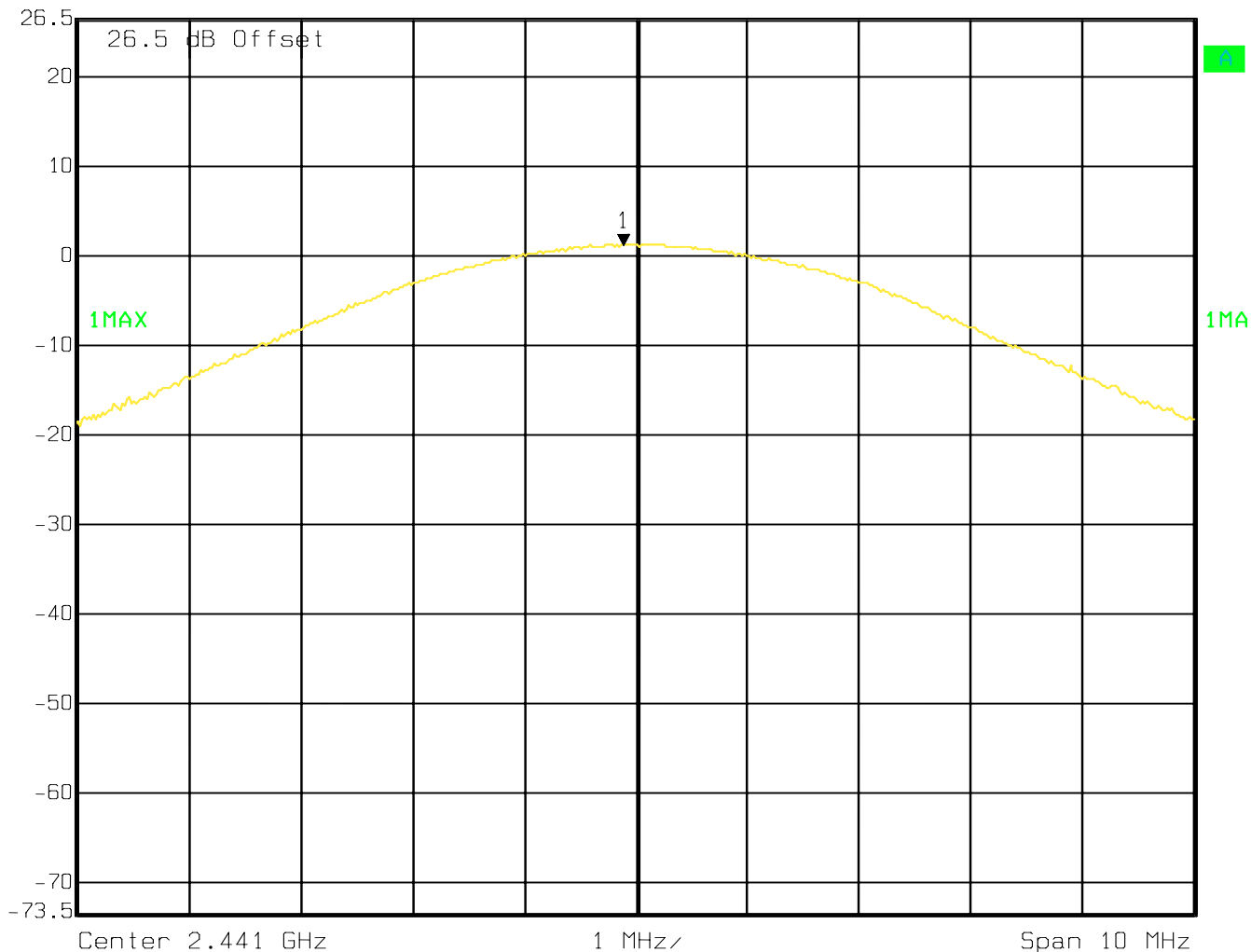

 Ref Lvl 26.5 dBm
 Marker 1 [T1] 1.58 dBm
 2.40192986 GHz
 RBW 3 MHz RF Att 30 dB
 VBW 3 MHz
 SWT 5 ms Unit dBm



Date: 04.JAN.2010 11:45:06

Conducted Peak Power 8DPSK 2441 MHz

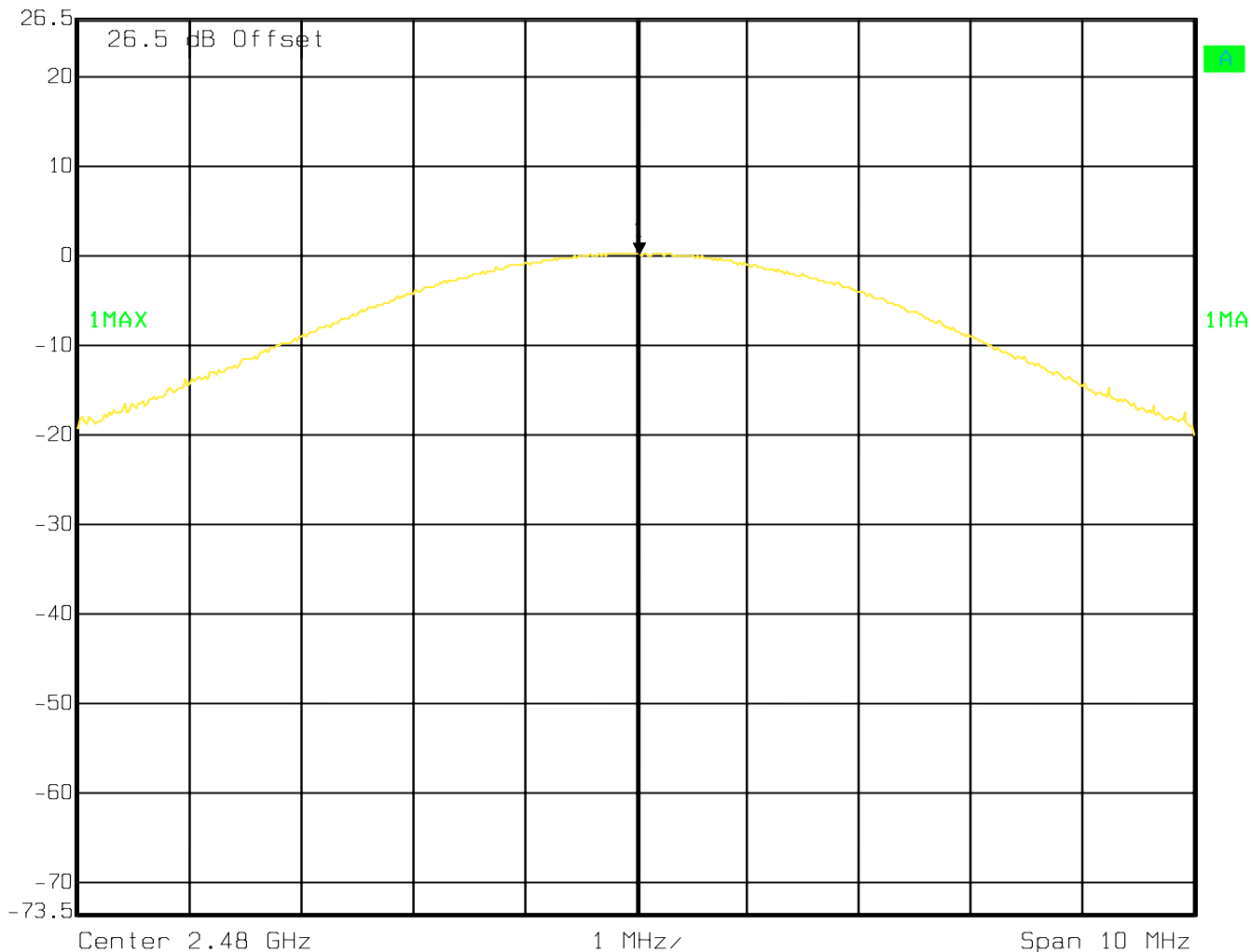

 Ref Lvl 26.5 dBm
 Marker 1 [T1] 1.21 dBm
 2.44088978 GHz
 RBW 3 MHz RF Att 30 dB
 VBW 3 MHz
 SWT 5 ms Unit dBm



Date: 04.JAN.2010 11:46:45

Conducted Peak Power 8DPSK 2480 MHz


 Ref Lvl 26.5 dBm
 Marker 1 [T1] 0.21 dBm
 2.48003006 GHz
 RBW 3 MHz RF Att 30 dB
 VBW 3 MHz
 SWT 5 ms Unit dBm



Date: 04.JAN.2010 11:48:10

5.3 Spectrum Bandwidth/ 20dB Bandwidth

5.3.1 Limits: § 15.247 (a)(1)

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.

GFSK < 1000 kHz

$\pi / 4$ DQPSK < 1500 kHz

8 dPSK < 1500kHz

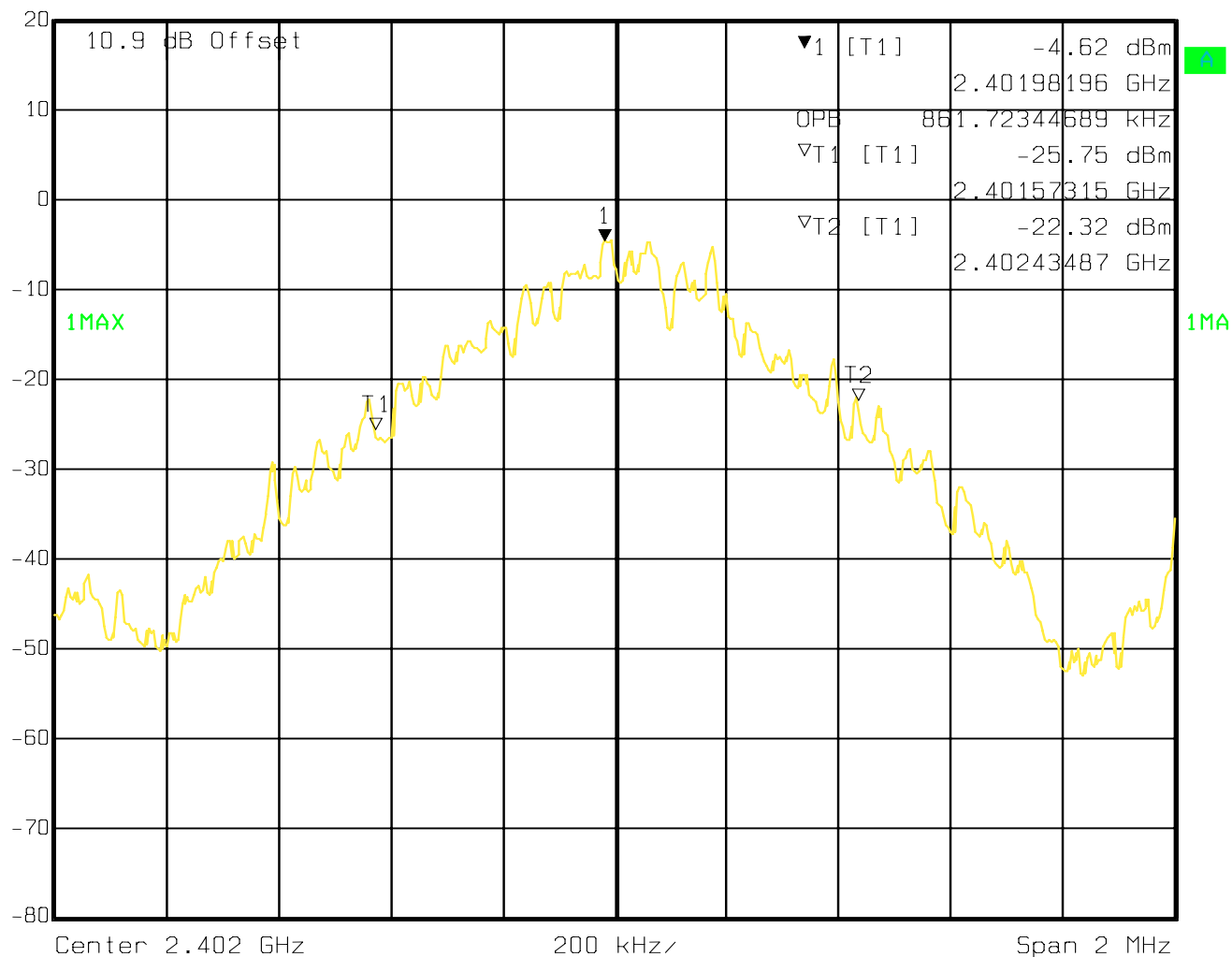
5.3.2 Test Result:

20dB Bandwidth (MHz)			
Modulation	Frequency (MHz)		
	2402	2442	2480
GFSK	0.862	0.862	0.862
$\pi/4$ DQPSK	1.17	1.17	1.17
8-DPSK	1.18	1.18	1.18
Measurement Uncertainty: ± 1 kHz			

RBW=VBW=10 kHz

5.3.3 Test Data/plots:**20dB Bandwidth GFSK 2402MHz**

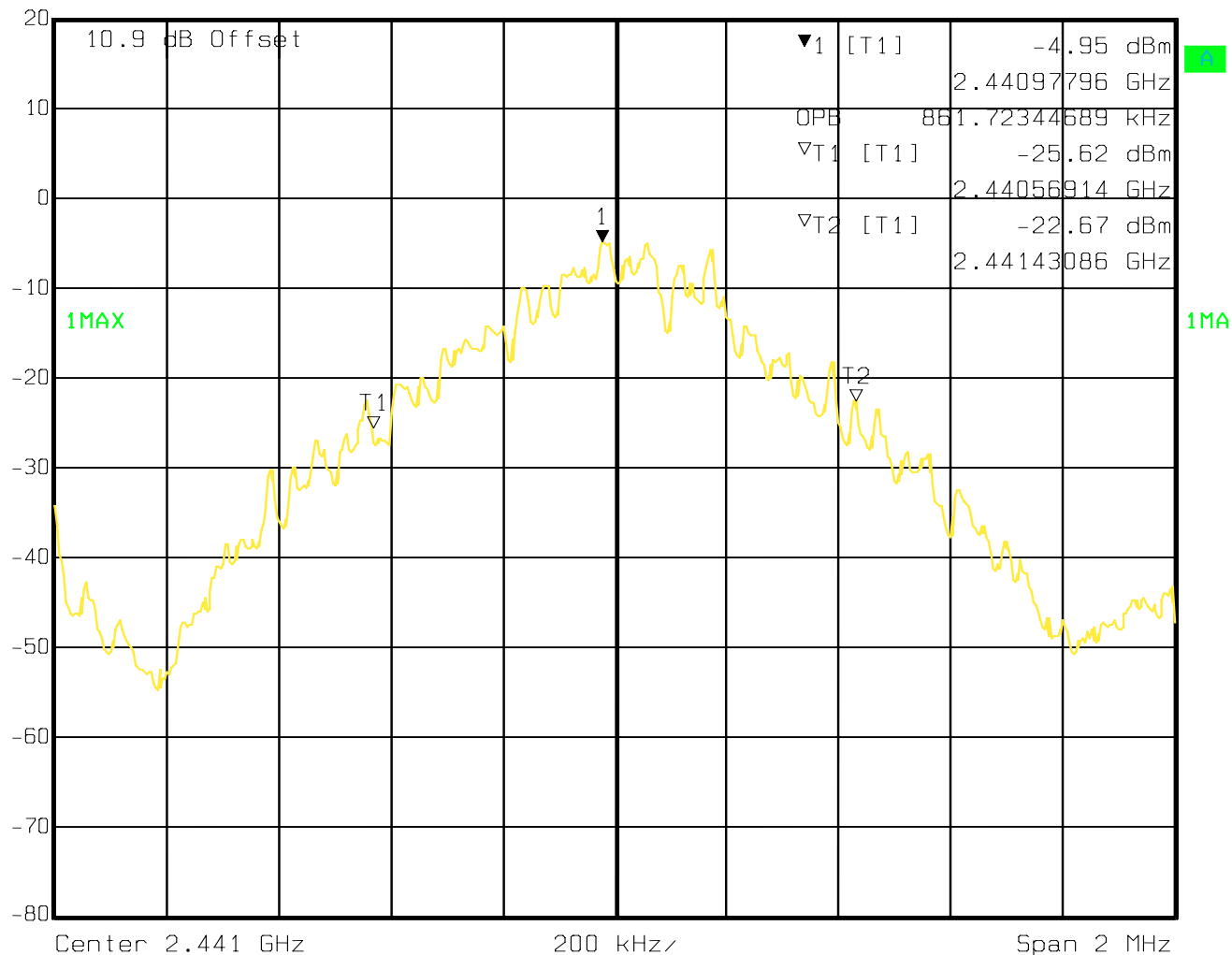
Ref Lvl 20 dBm
Marker 1 [T1] -4.62 dBm
2.40198196 GHz
RBW 10 kHz RF Att 30 dB
VBW 10 kHz
SWT 50 ms Unit dBm



Date: 14.JAN.2010 15:25:10

20dB Bandwidth GFSK 2441MHz

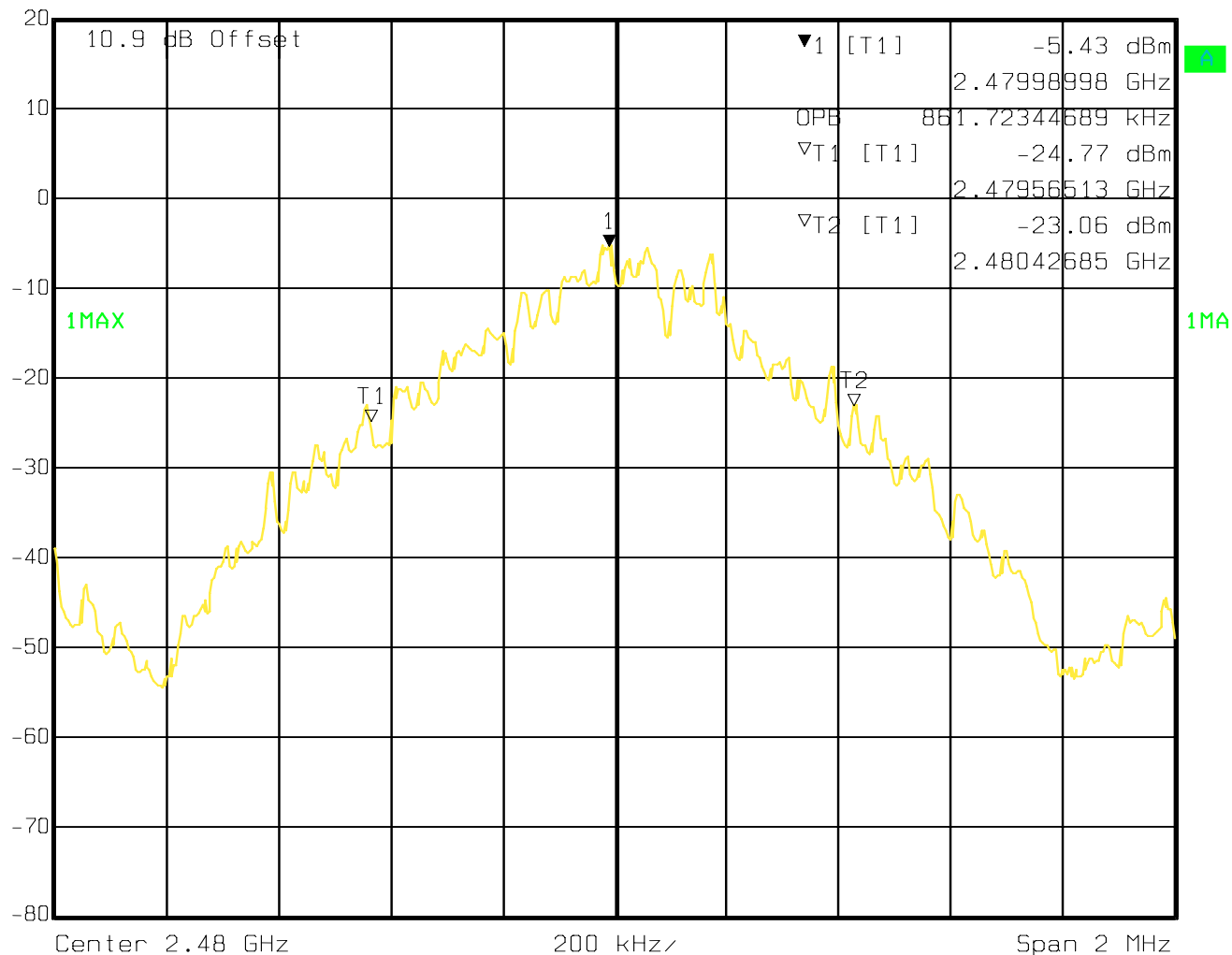

 Ref Lvl 20 dBm
 Marker 1 [T1] -4.95 dBm
 2.44097796 GHz
 RBW 10 kHz RF Att 30 dB
 VBW 10 kHz
 SWT 50 ms Unit dBm



Date: 14.JAN.2010 16:35:56

20dB Bandwidth GFSK 2480MHz

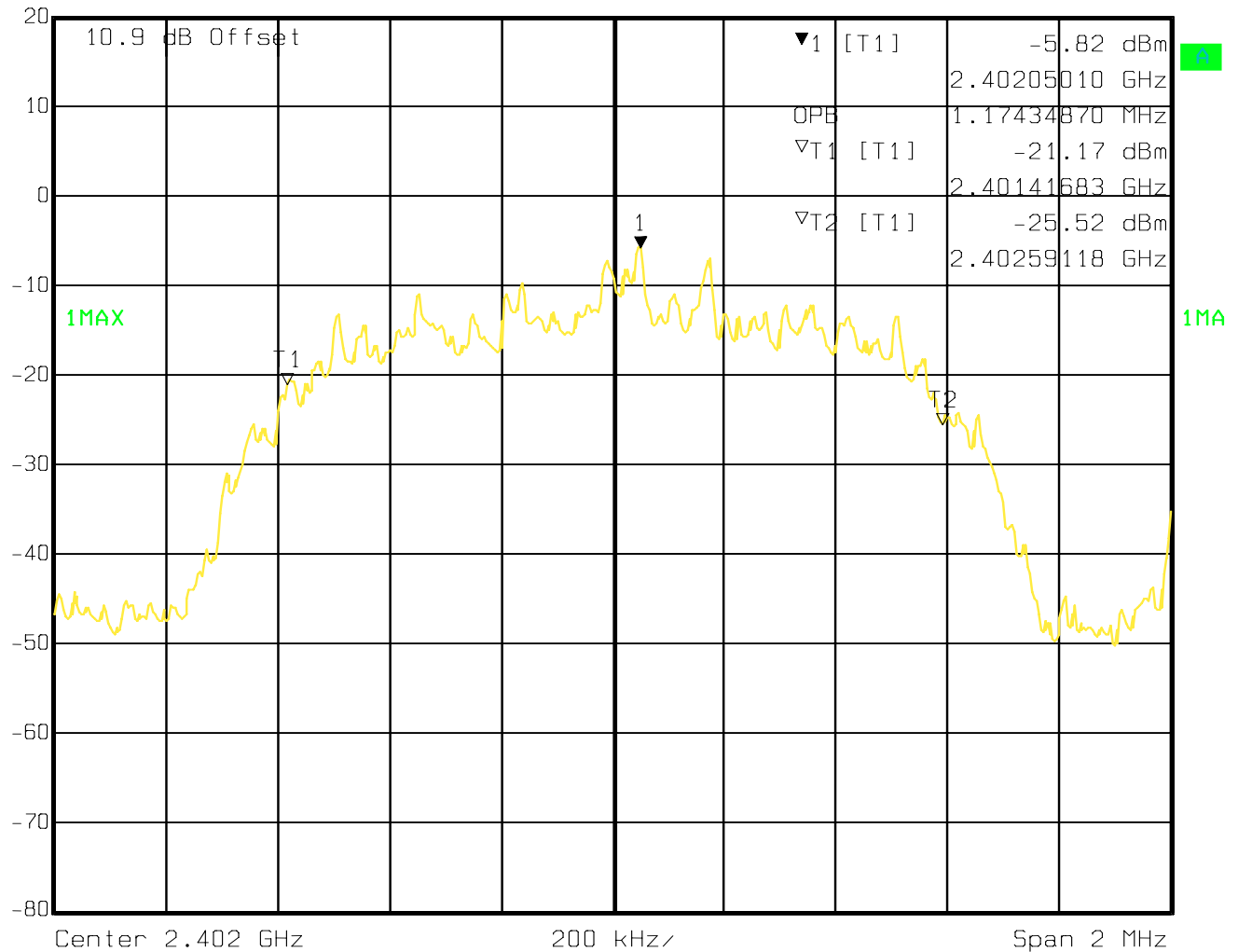

 Ref Lvl 20 dBm
 Marker 1 [T1] -5.43 dBm
 2.47998998 GHz
 RBW 10 kHz RF Att 30 dB
 VBW 10 kHz
 SWT 50 ms Unit dBm



Date: 14.JAN.2010 16:38:34

20dB Bandwidth $\pi / 4$ DQPSK 2402MHz

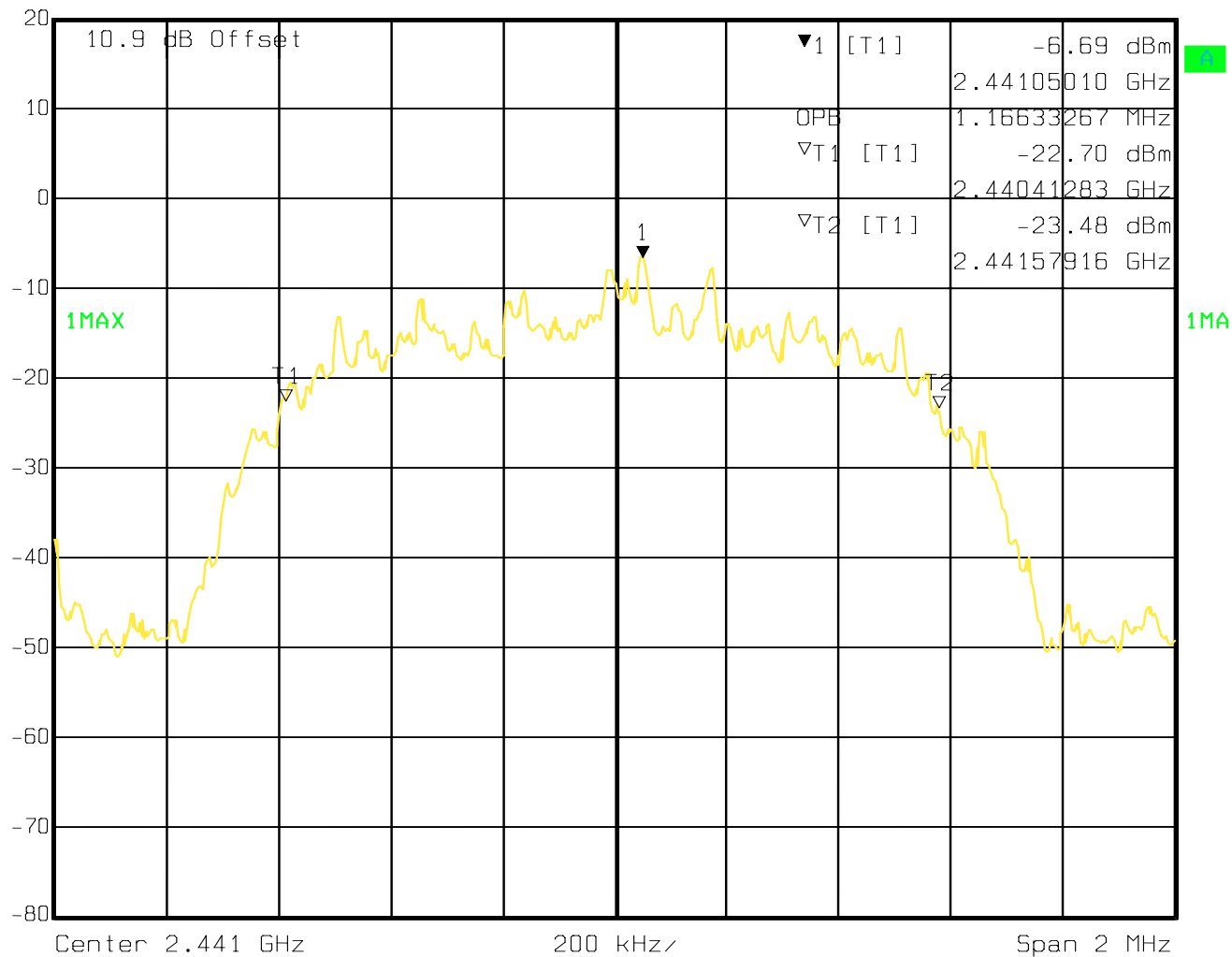

 Ref Lvl 20 dBm
 Marker 1 [T1] -5.82 dBm
 2.40205010 GHz
 RBW 10 kHz RF Att 30 dB
 VBW 10 kHz
 SWT 50 ms Unit dBm



Date: 14.JAN.2010 16:29:08

20dB Bandwidth π / 4 DQPSK 2441MHz

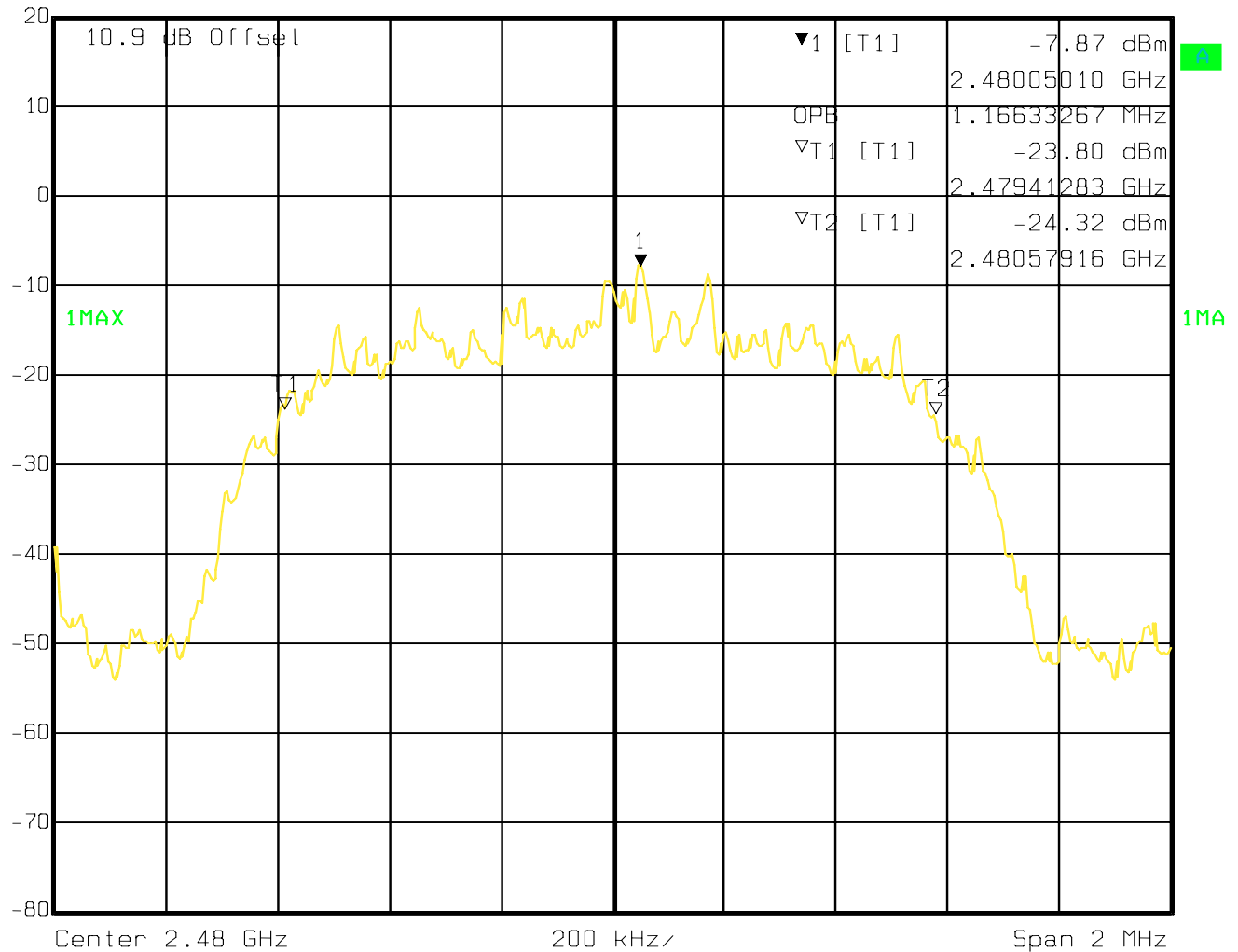
Ref Lvl 20 dBm
Marker 1 [T1] -6.69 dBm
2.44105010 GHz
RBW 10 kHz RF Att 30 dB
VBW 10 kHz
SWT 50 ms Unit dBm



Date: 14.JAN.2010 16:34:32

20dB Bandwidth $\pi / 4$ DQPSK 2480MHz

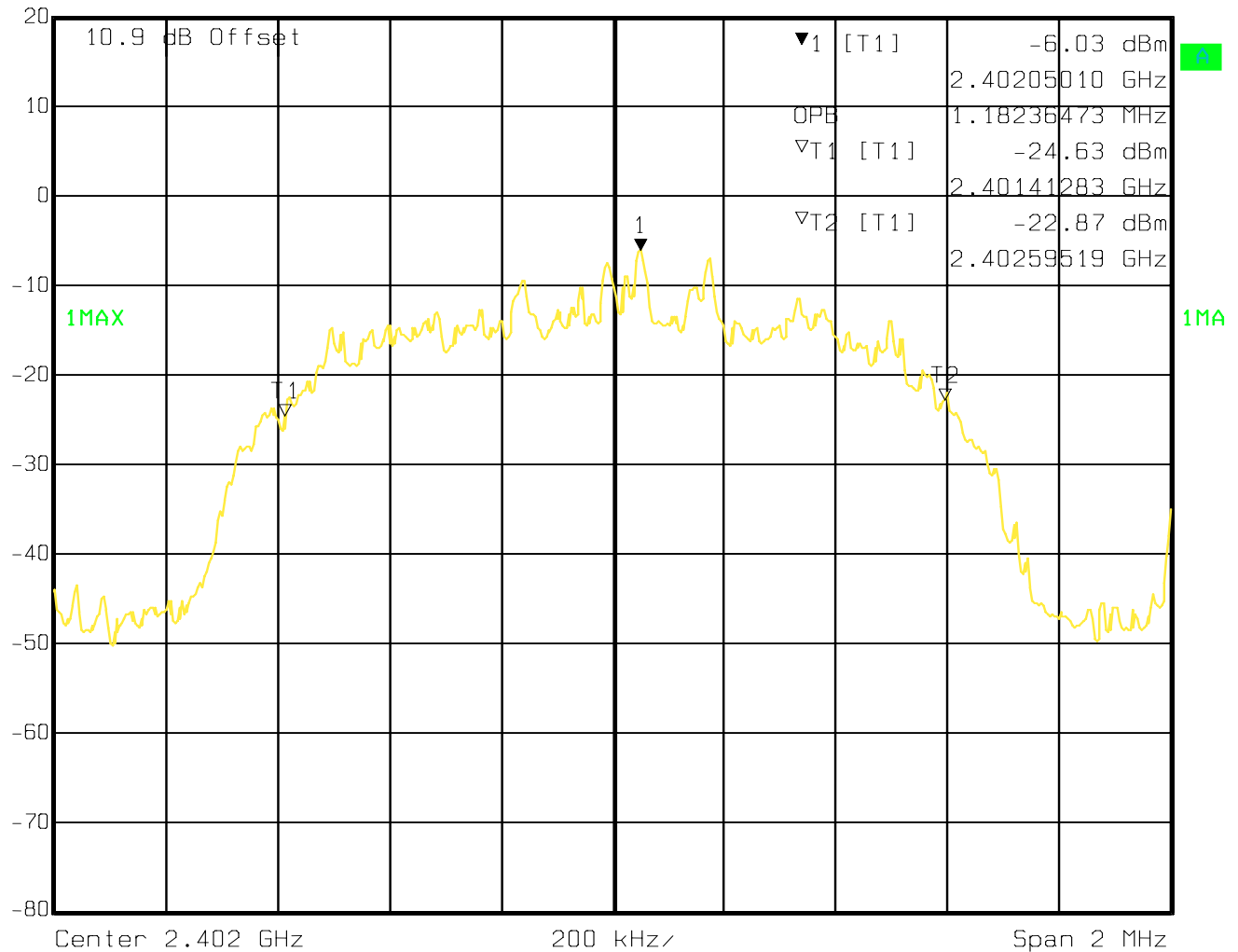

 Ref Lvl 20 dBm
 Marker 1 [T1] -7.87 dBm
 2.48005010 GHz
 RBW 10 kHz RF Att 30 dB
 VBW 10 kHz
 SWT 50 ms Unit dBm



Date: 14.JAN.2010 16:39:59

20dB Bandwidth 8PSK 2402MHz

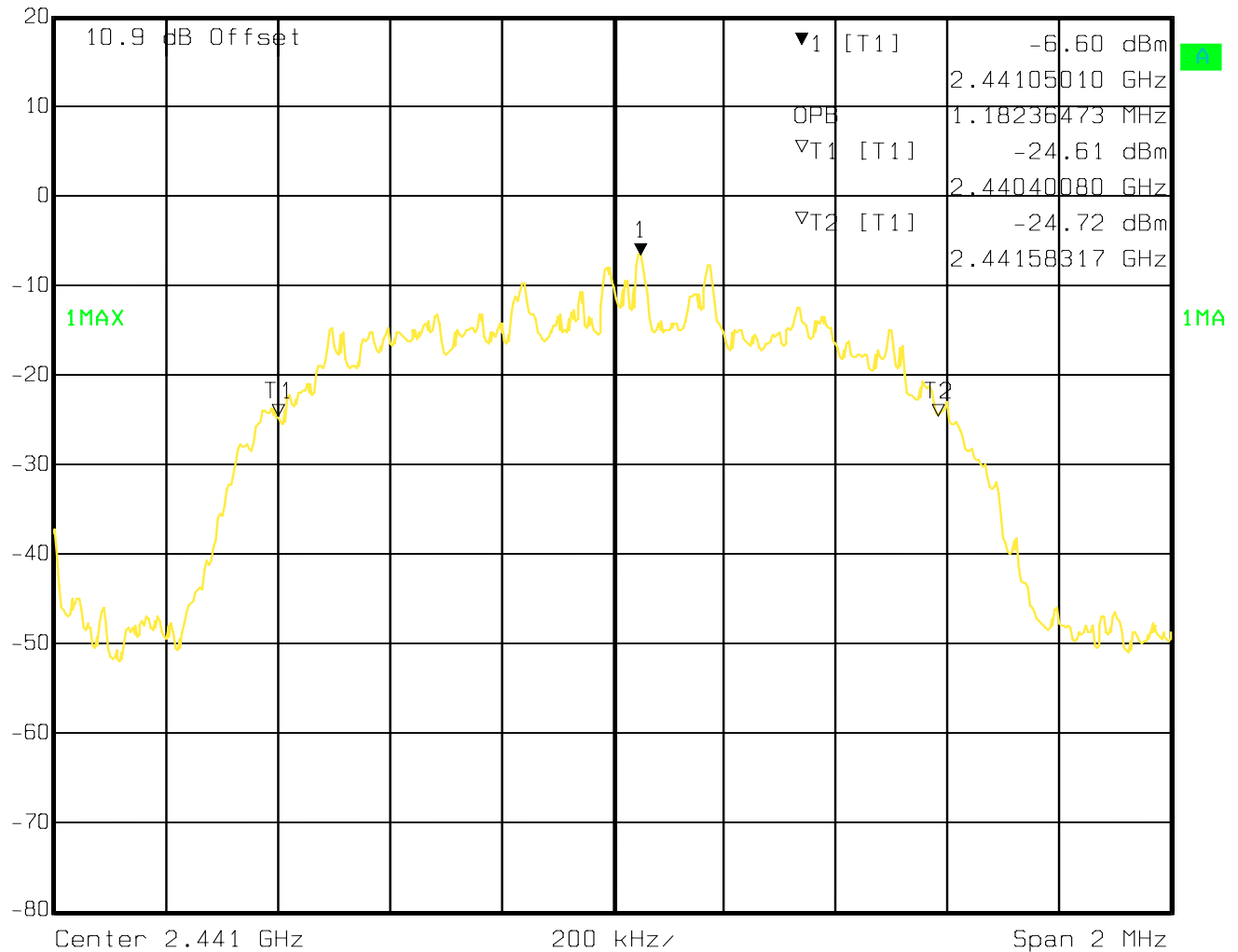

 Ref Lvl 20 dBm
 Marker 1 [T1] -6.03 dBm
 2.40205010 GHz
 RBW 10 kHz RF Att 30 dB
 VBW 10 kHz
 SWT 50 ms Unit dBm



Date: 14.JAN.2010 16:30:58

20dB Bandwidth 8PSK 2441MHz

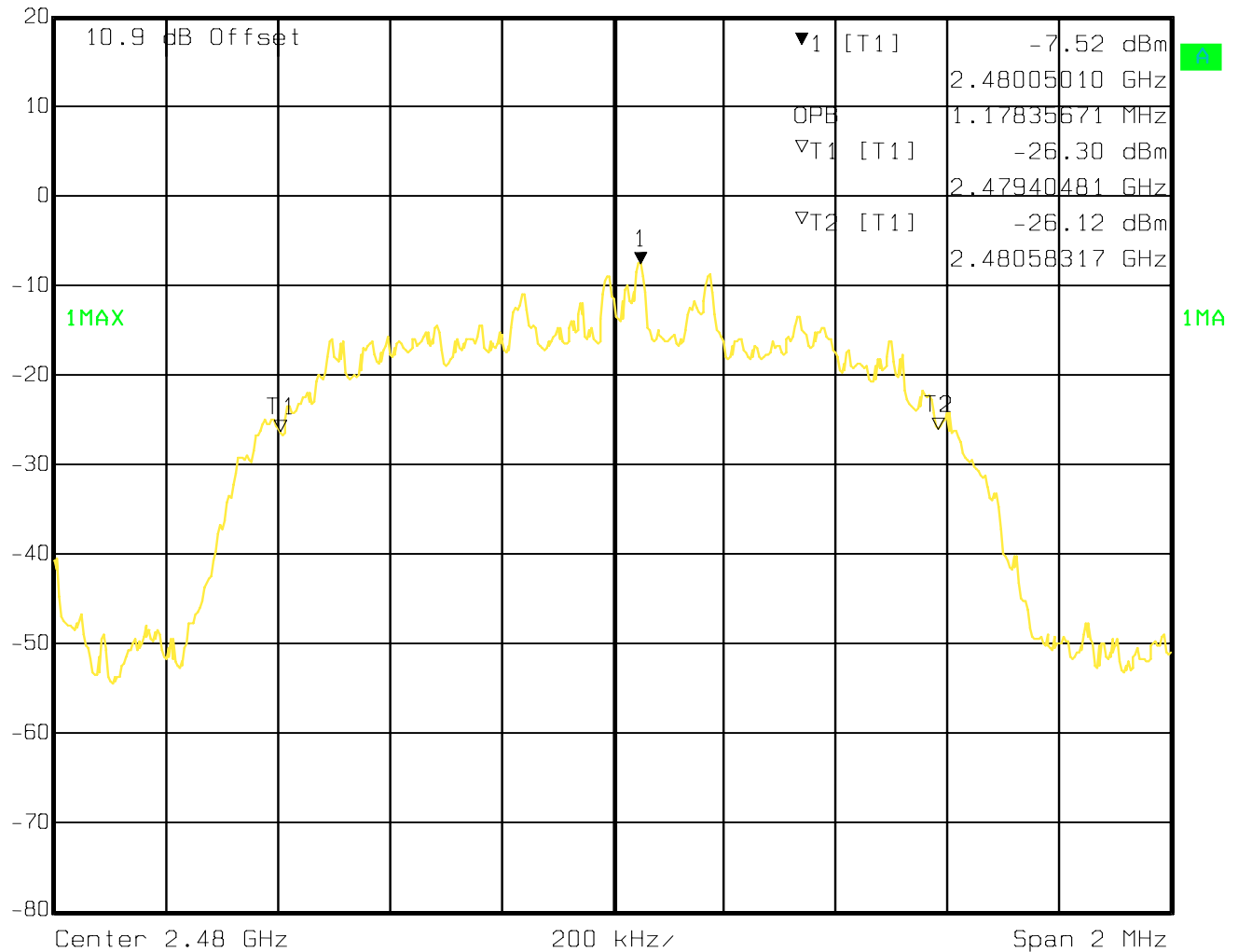

 Ref Lvl 20 dBm
 Marker 1 [T1] -6.60 dBm
 2.44105010 GHz
 RBW 10 kHz RF Att 30 dB
 VBW 10 kHz
 SWT 50 ms Unit dBm



Date: 14.JAN.2010 16:32:38

20dB Bandwidth 8PSK 2480MHz


 Ref Lvl 20 dBm
 Marker 1 [T1] -7.52 dBm
 2.48005010 GHz
 RBW 10 kHz RF Att 30 dB
 VBW 10 kHz
 SWT 50 ms Unit dBm



5.4 Carrier Frequency Separation

5.4.1 Limits: § 15.247 (a) (1)

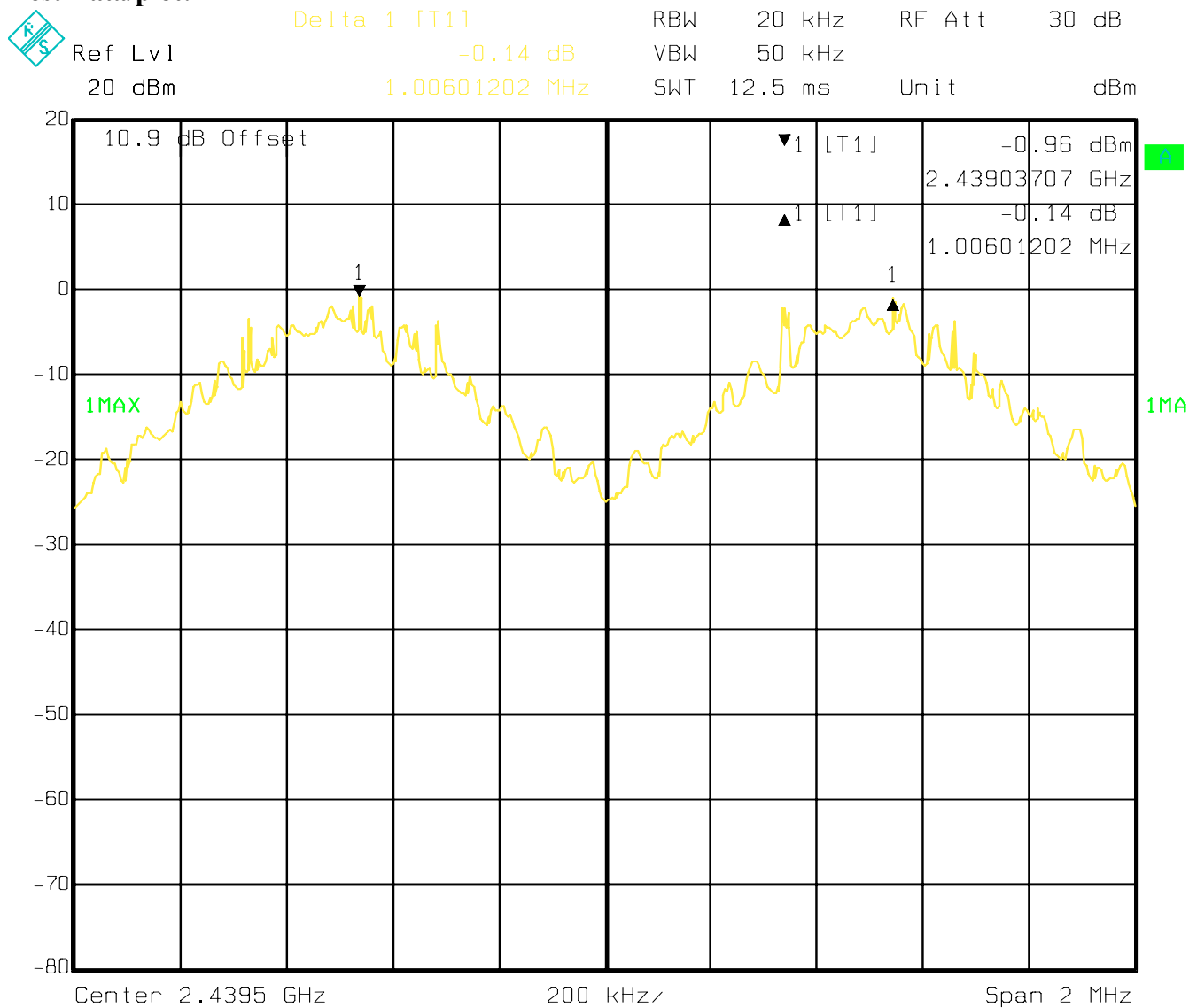
Minimum 25kHz or 2/3 of the 20dB bandwidth of the hopping system

5.4.2 Test Result:

Modulation: GFSK

Channel Separation: 1.01 MHz

5.4.3 Test Data/plot:



Date: 14.JAN.2010 17:24:13

5.5 Number of hopping channels

5.5.1 Limits: § 15.247 (a) (1)

Atleast 15 non-overlapping channels

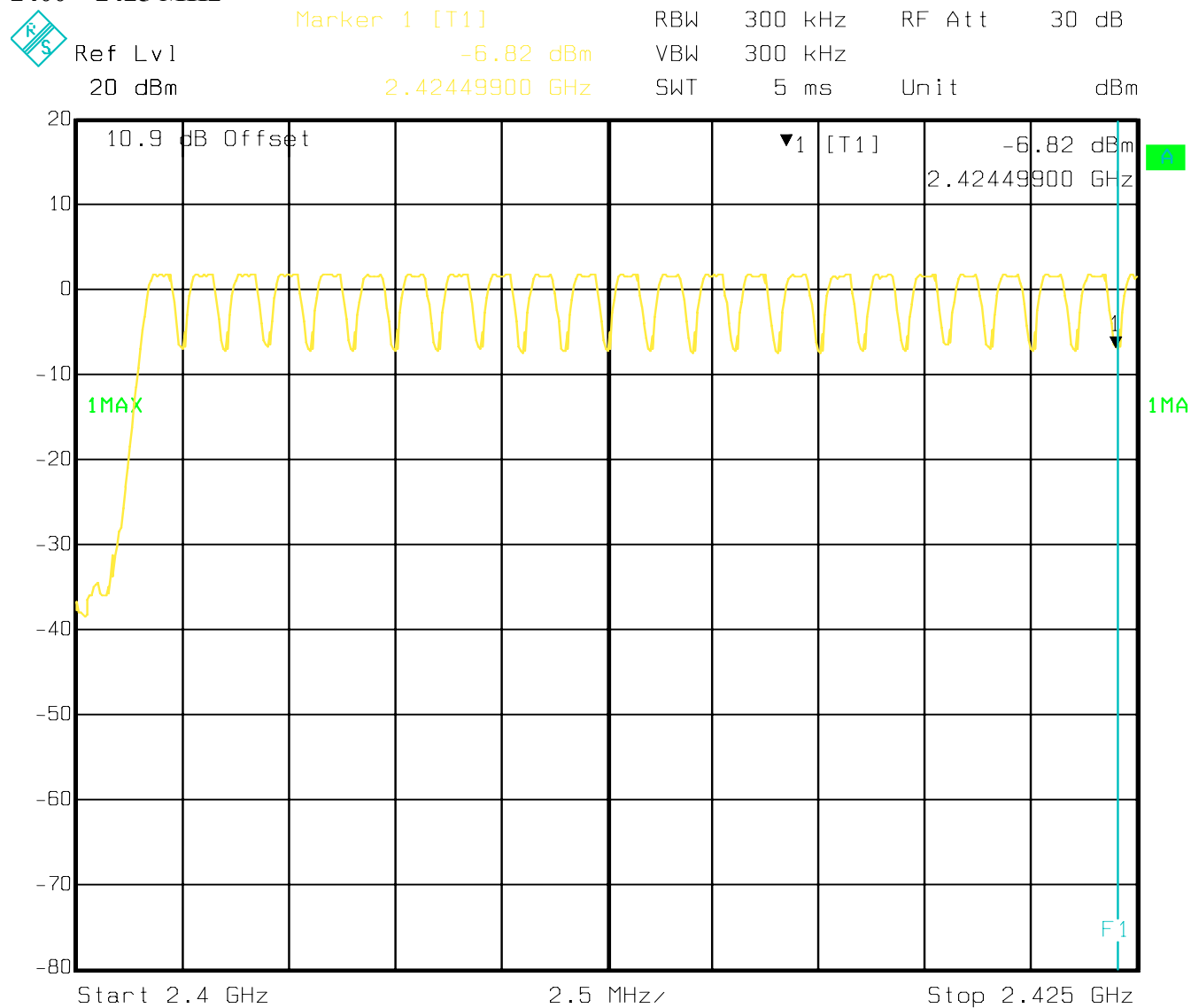
5.5.2 Test Result:

Modulation: GFSK

Number of hopping channels: 79

5.5.3 Test Data/plot:

2400 – 2425 MHz

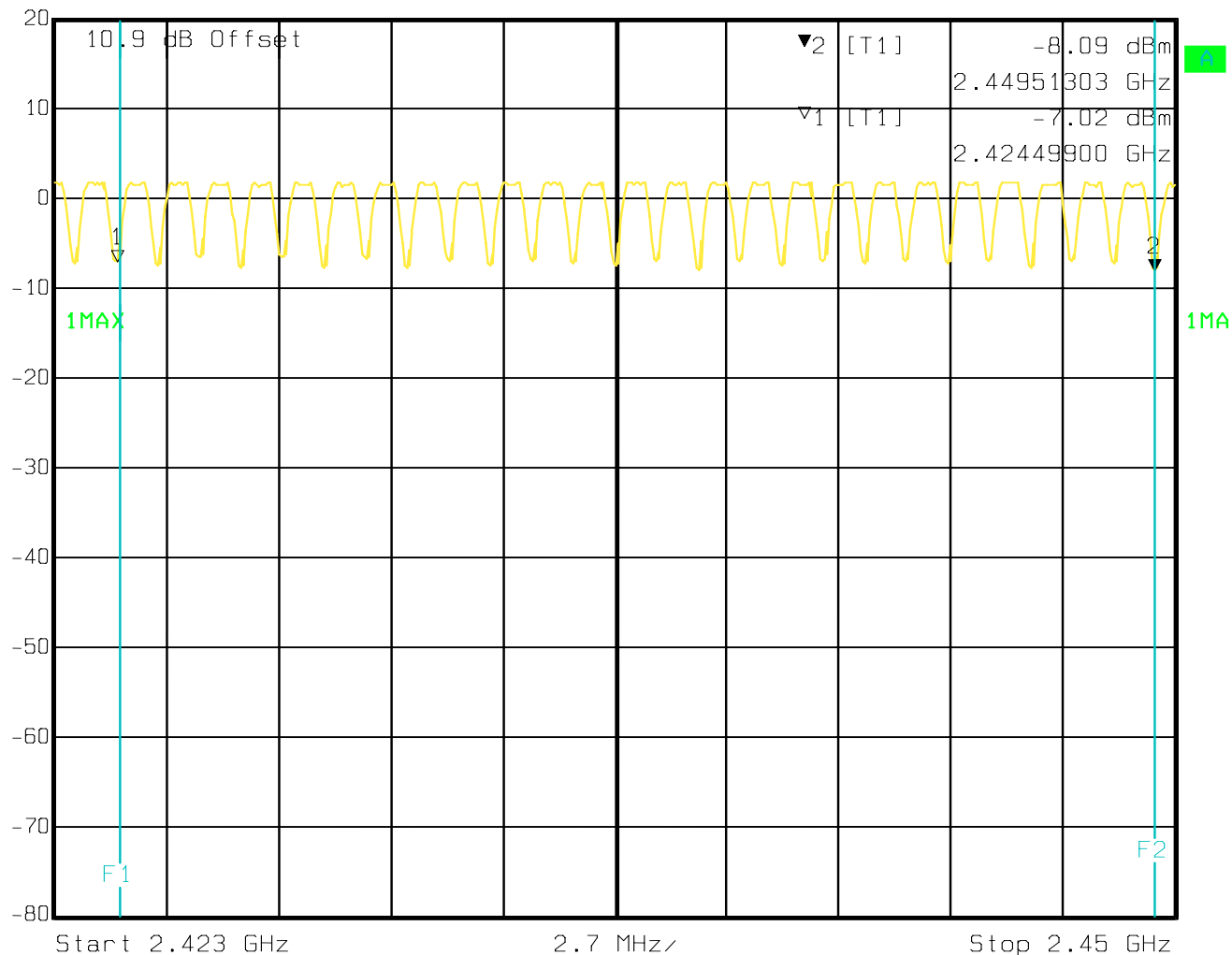


Date: 14.JAN.2010 16:54:16

2423 – 2450 MHz

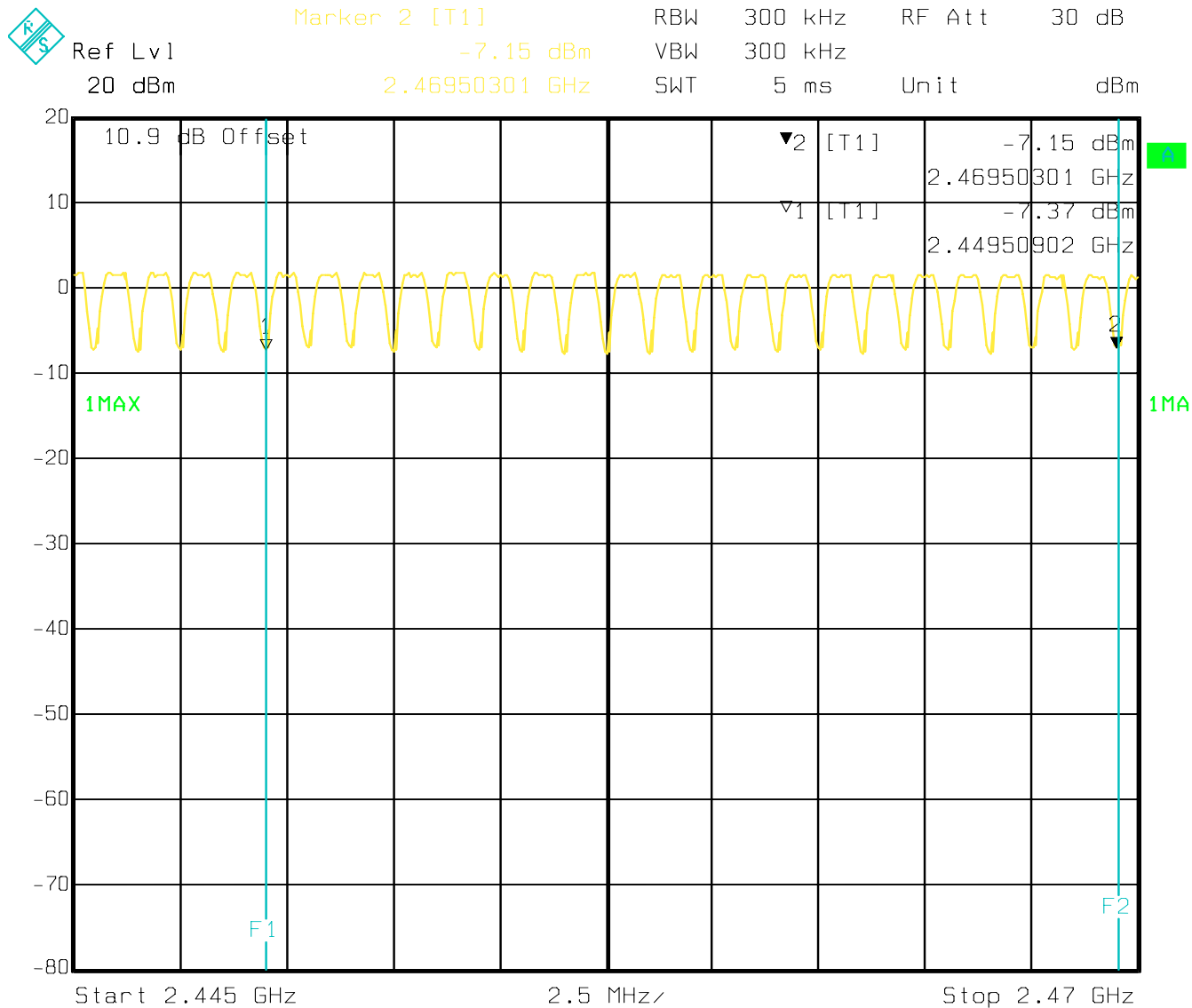


Ref Lvl 20 dBm
 Marker 2 [T1] -8.09 dBm
 2.44951303 GHz
 RBW 300 kHz RF Att 30 dB
 VBW 300 kHz
 SWT 5 ms Unit dBm



Date: 14.JAN.2010 16:56:08

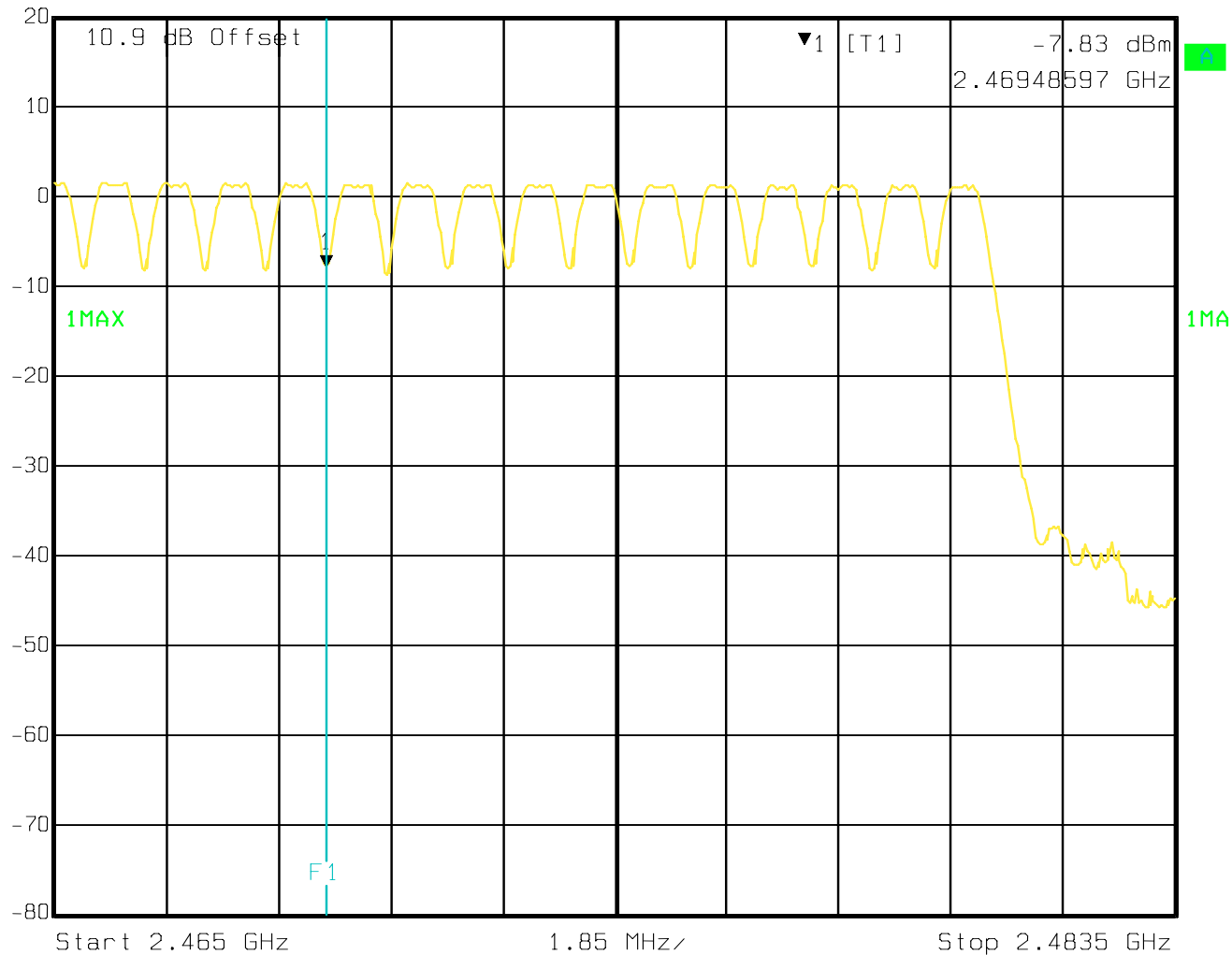
2445 – 2470 MHz



Date: 14.JAN.2010 16:58:08

2465 – 2483.5 MHz


 Ref Lvl 20 dBm
 Marker 1 [T1] -7.83 dBm
 2.46948597 GHz
 RBW 300 kHz RF Att 30 dB
 VBW 300 kHz
 SWT 5 ms Unit dBm



Date: 14.JAN.2010 17:00:03

5.6 Time of occupancy (Dwell time)

5.6.1 Limits: § 15.247 (a) (1) (iii)

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

5.6.2 Test Result:

Result: 0.312s

For Bluetooth devices:

The dwell time of 0.4 s within a 31.6 second period in data mode is independent from the packet type (packet length). The calculation for a 31.6 second period is as follows:

Dwell time = time slot length * hop rate / number of hopping channels * 31.6 s

Example for a DH1 packet (with a maximum length of one time slot)

Dwell time = $625 \mu\text{s} * 1600 \text{ 1/s} / 79 * 31.6 \text{ s} = 0.4 \text{ s}$ (in a 31.6 s period)

For multi-slot packet the hopping is reduced according to the length of the packet.

Example for a DH5 packet (with a maximum length of five time slots)

Dwell time = $5 * 625 \mu\text{s} * 1600 * 1/5 * 1/s / 79 * 31.6 \text{ s} = 0.4 \text{ s}$ (in a 31.6 s period)

This is according to Bluetooth Core Specification for all Bluetooth devices. Therefore all BT devices satisfy FCC requirement on time of occupancy (dwell time) in the data mode.

5.7 Power Spectral Density (Hybrid system in Inquiry mode/ Page scan)**5.7.1 Limits: § 15.247 (e)**

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

5.7.2 Test Result:

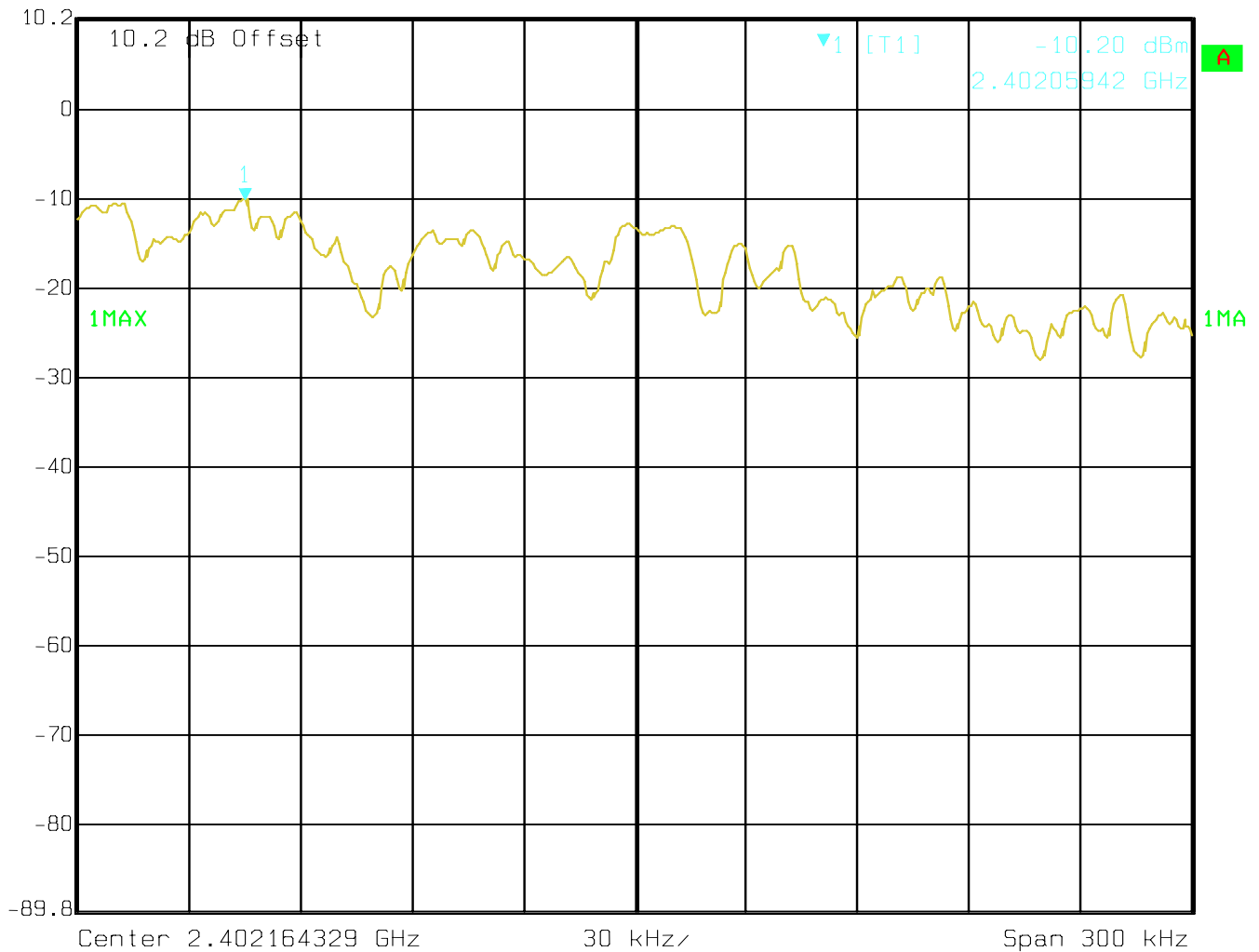
PSD (dBm)			
Modulation	Frequency (MHz)		
	2402	2442	2480
GFSK	-10.20	-8.87	-9.56
$\pi/4$ DQPSK	-12.38	-12.68	-13.60
8-DPSK	-12.36	-14.12	-15.56

RBW=3kHz, VBW=10kHz

5.7.3 Test Plots

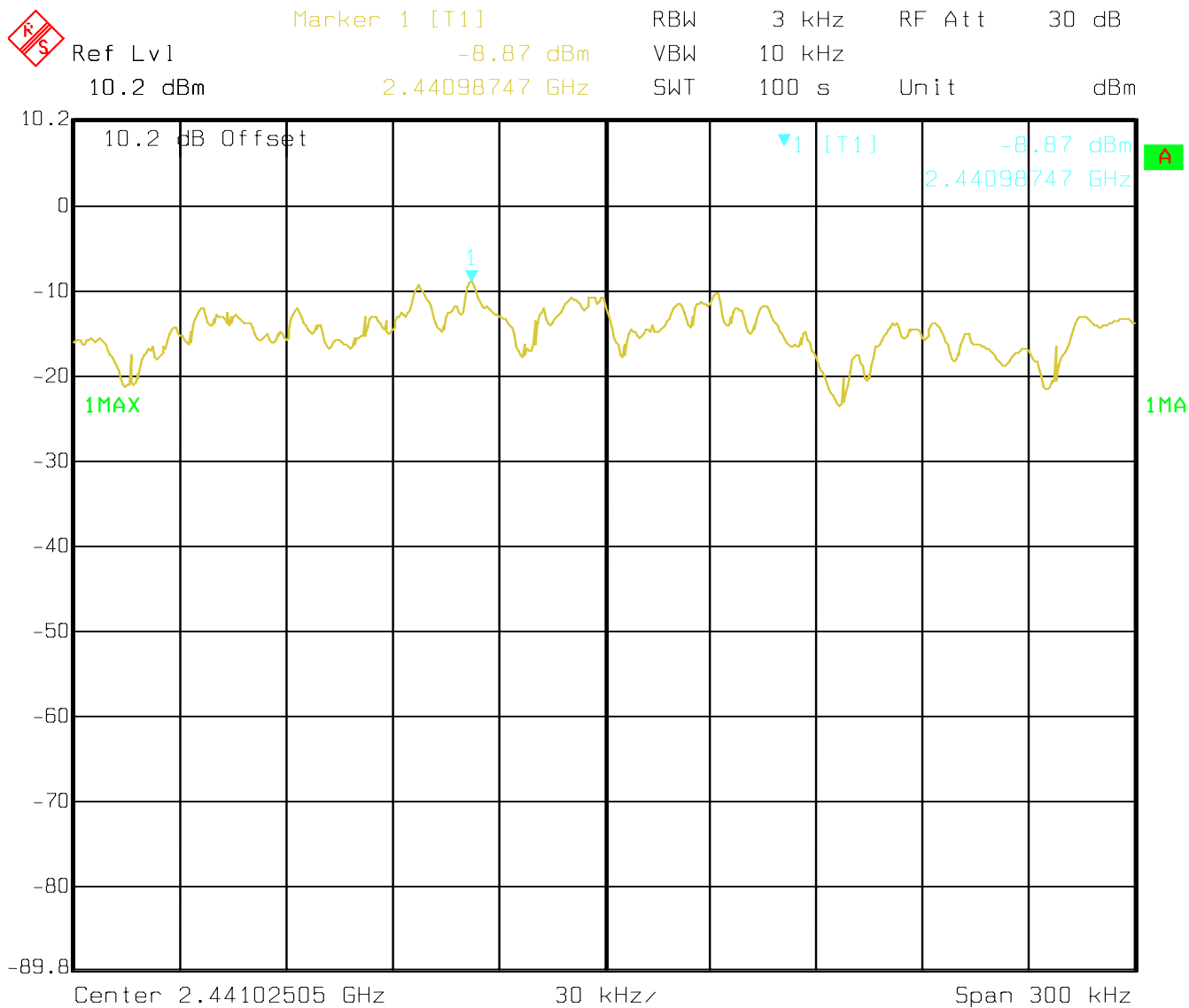
GFSK 2402MHz


 Ref Lvl 10.2 dBm
 Marker 1 [T1] -10.20 dBm
 2.40205942 GHz
 RBW 3 kHz RF Att 30 dB
 VBW 10 kHz
 SWT 100 s Unit dBm



Date: 12.FEB.2010 08:14:37

GFSK 2441 MHz



Date: 12.FEB.2010 09:21:27

Test Report #: EMC_PALMO_070_09001_15.247_BT_Conducted_rev1

Date of Report : 2010-03-16

Page 39 of 53



GFSK 2480 MHz



Ref Lvl
10.2 dBm

Marker 1 [T1]

-9.56 dBm

2.47998788 GHz

RBW

3 kHz

RF Att

30 dB

VBW

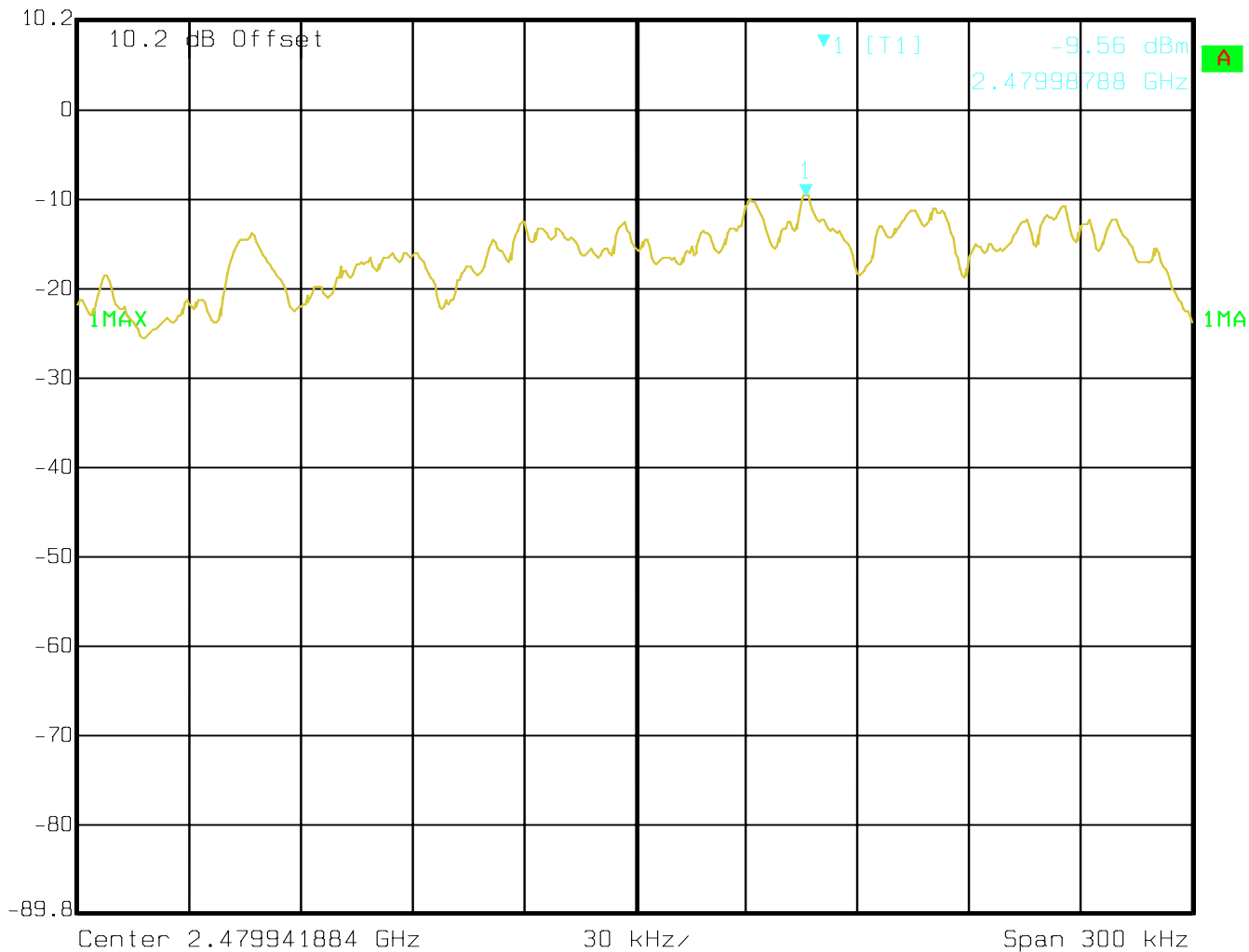
10 kHz

SWT

100 s

Unit

dBm

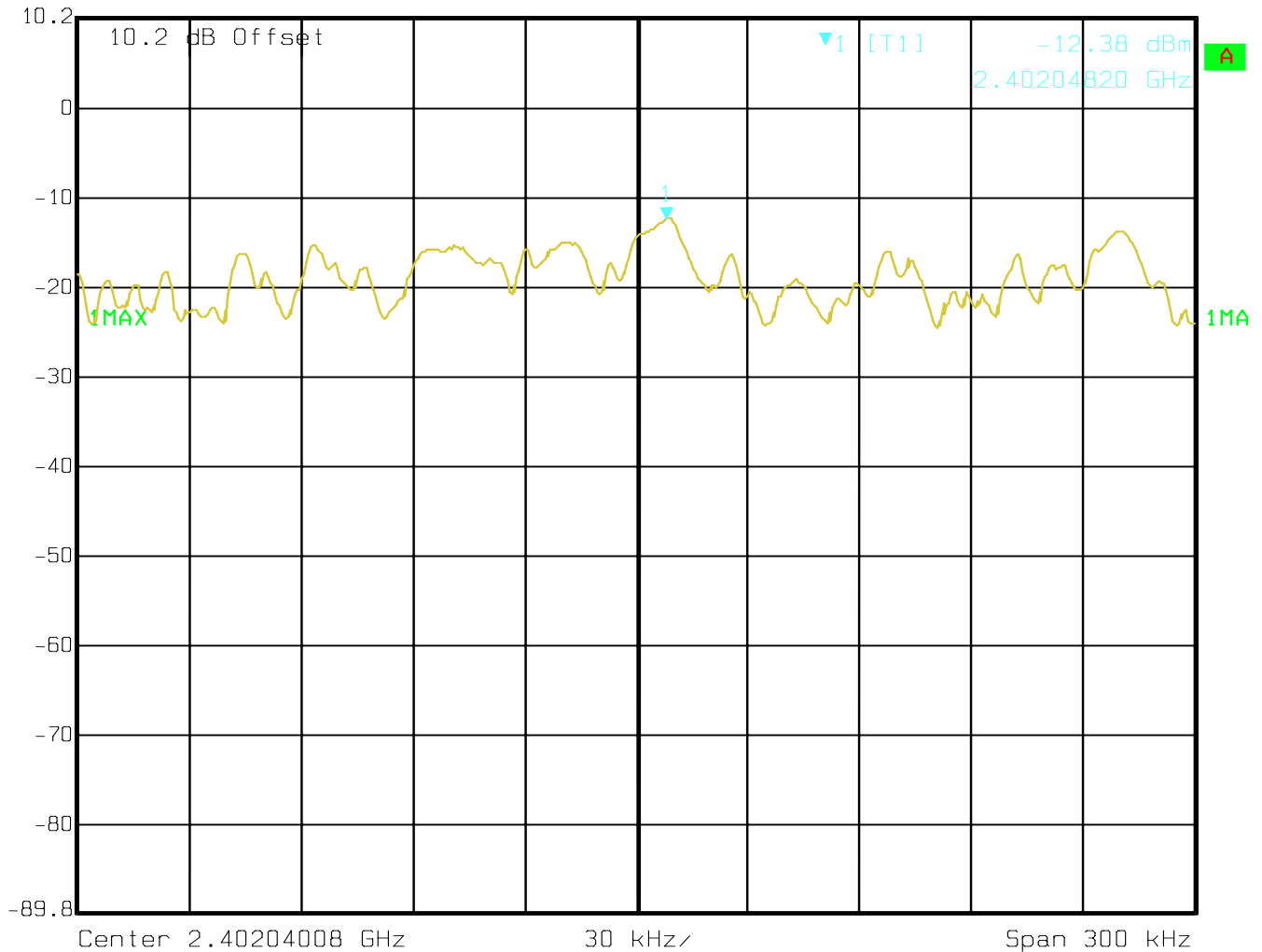


Date: 12.FEB.2010 15:05:39

DQPSK 2402MHz

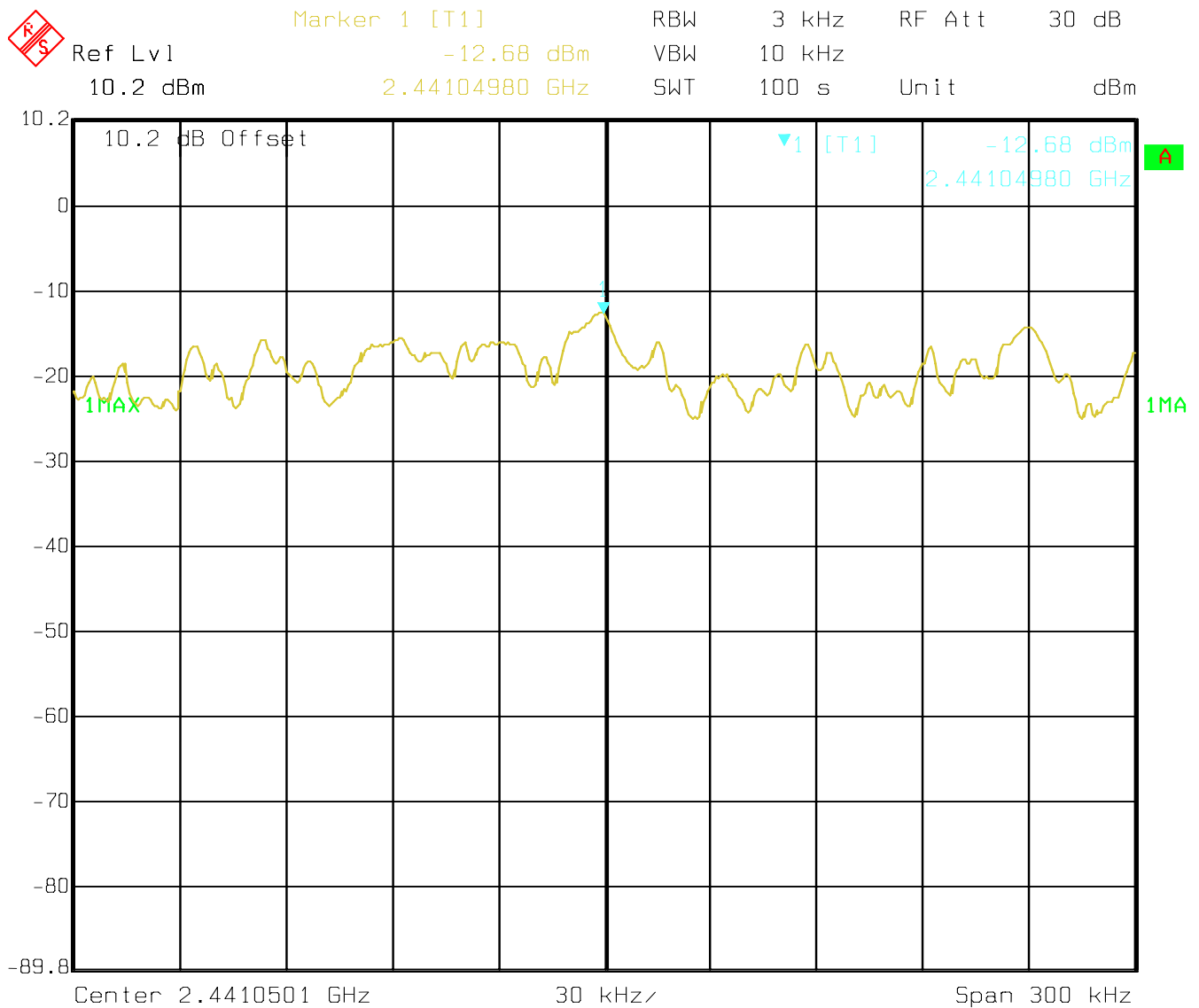


Ref Lvl 10.2 dBm
 Marker 1 [T1] -12.38 dBm
 RBW 3 kHz RF Att 30 dB
 VBW 10 kHz
 2.40204820 GHz
 SWT 100 s Unit dBm



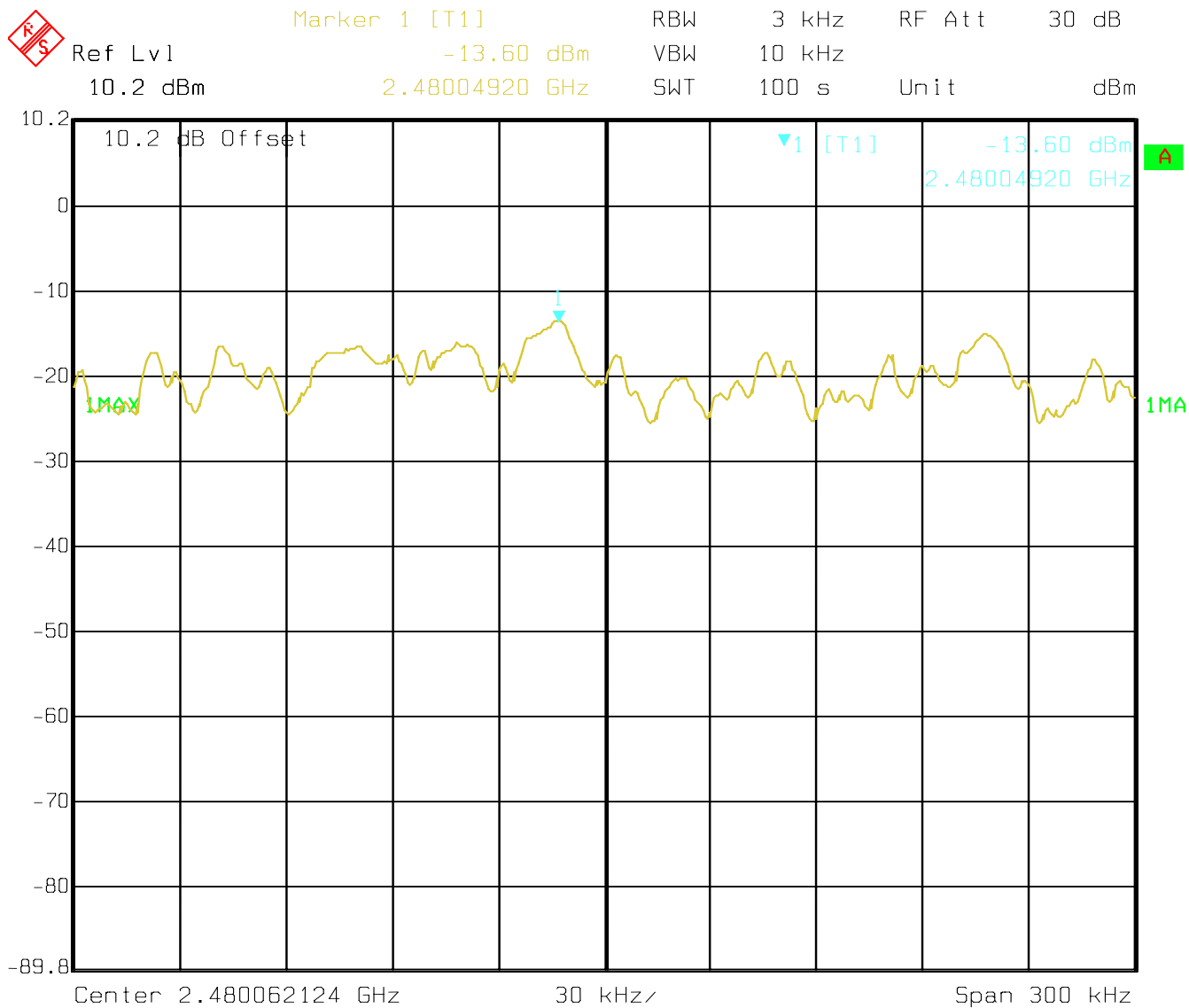
Date: 12.FEB.2010 08:39:44

DQPSK 2442MHz



Date: 12.FEB.2010 08:45:47

DQPSK 2480MHz



Date: 12.FEB.2010 14:57:55

Test Report #: EMC_PALMO_070_09001_15.247_BT_Conducted_rev1

Date of Report : 2010-03-16

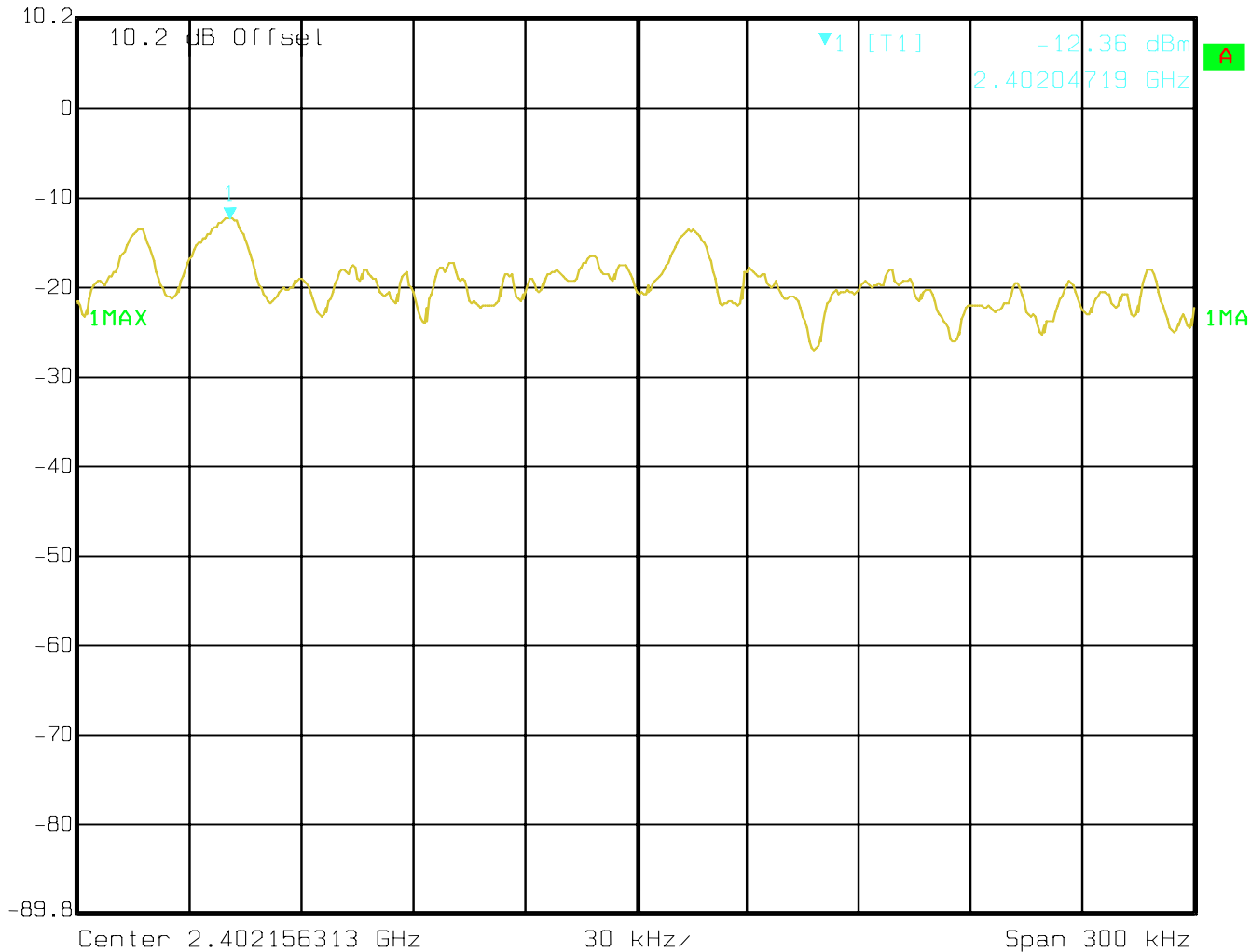
Page 43 of 53



8-DPSK 2402MHz

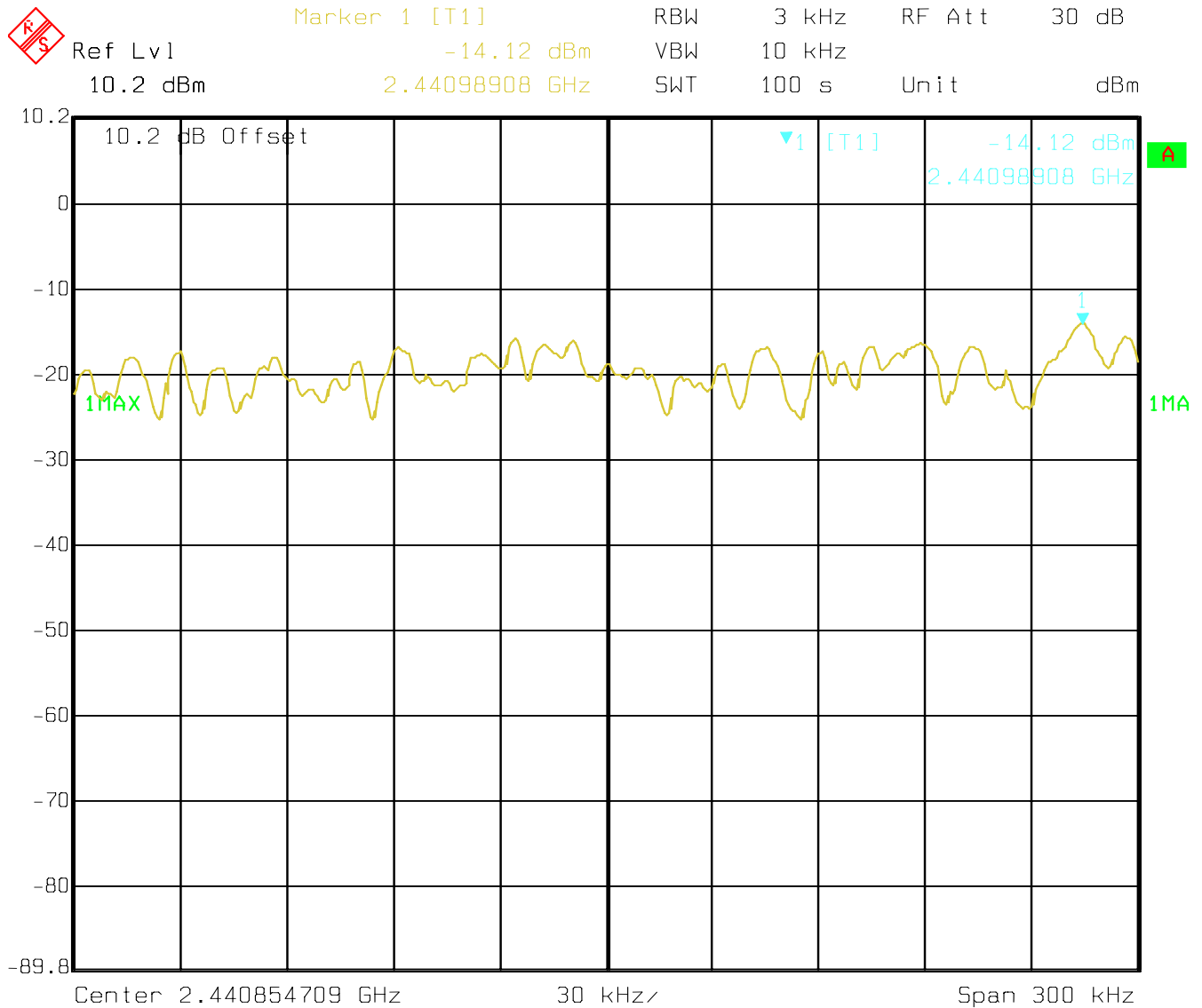


Ref Lvl 10.2 dBm
Marker 1 [T1] -12.36 dBm
RBW 3 kHz
VBW 10 kHz
RF Att 30 dB
2.40204719 GHz
SWT 100 s
Unit dBm



Date: 12.FEB.2010 08:31:05

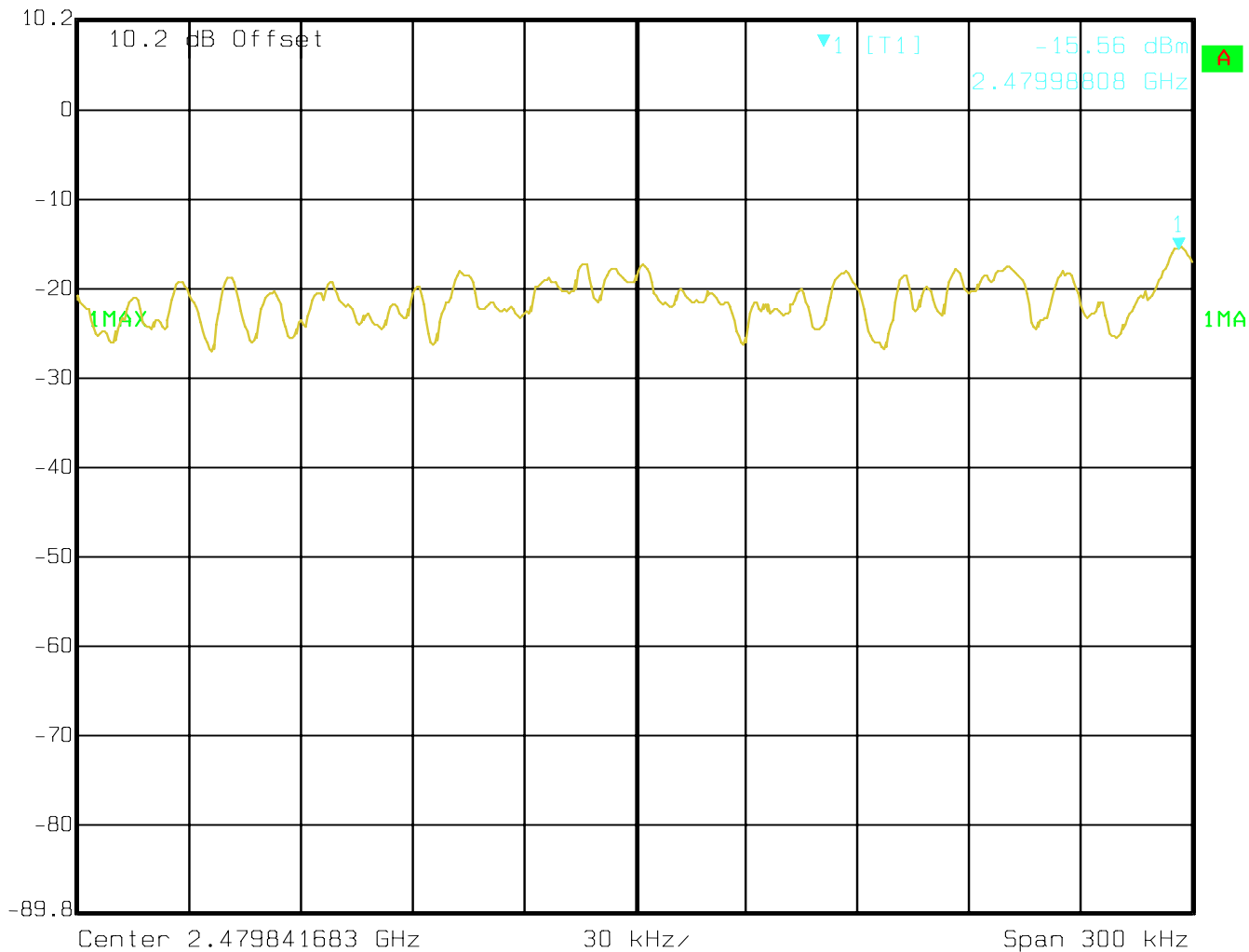
8-DPSK 2442MHz



Date: 12.FEB.2010 14:37:10

8-DPSK 2480MHz


 Ref Lvl 10.2 dBm
 Marker 1 [T1] -15.56 dBm
 RBW 3 kHz RF Att 30 dB
 VBW 10 kHz
 2.47998808 GHz
 SWT 100 s Unit dBm



Date: 12.FEB.2010 14:48:40

5.8 Transmitter Spurious Emissions- Conducted

5.8.1 Limits: § 15.247 (d)

30dBm for the transmitter.

-20dBc in the frequency range 30MHz- 25GHz.

5.8.2 Test Conditions:

Modulation: GFSK

Analyzer settings: RBW=VBW=100 kHz

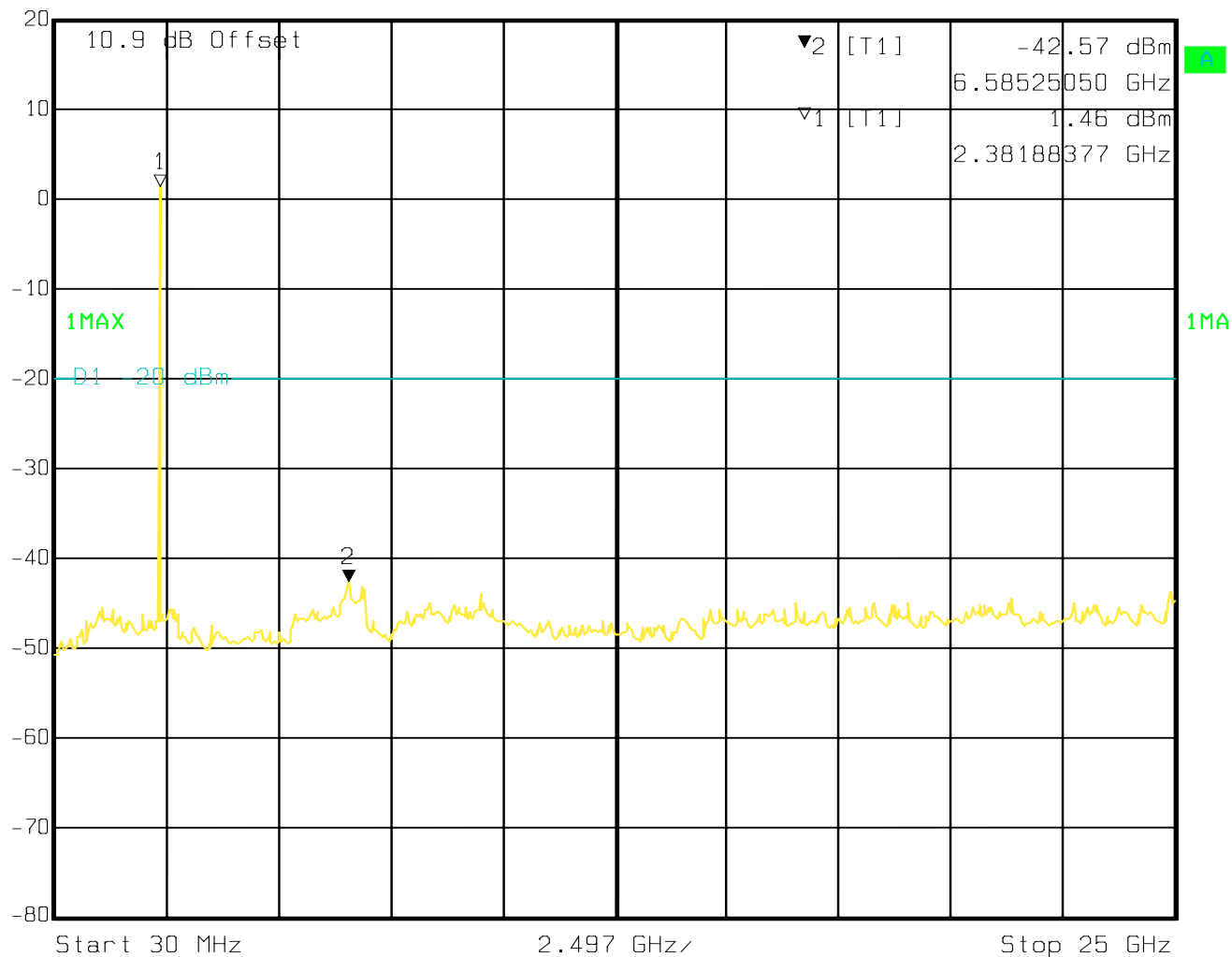
5.8.3 Test data/ plots:

Note: Results for Co-location represent worst case for all operating modes and channels.

Conducted Spurious Emissions			
Channel	Frequency (MHz)	Amplitude (dBm)	Limits
Low	2402	1.46	30dBm
	No critical peaks		-20dBc
Mid	2442	0.42	30 dBm
	No critical peaks		-20dBc
High	2480	0.30	30 dBm
	No critical peaks		-20dBc
Co-Location with WLAN	BT: 2442 WLAN: 2412	0.58	30 dBm
	No critical peaks		-20dBc
Measurement Uncertainty: ±1 dB			

5.8.4 Test data/ plots:**Conducted Spurious Emission 2402MHz**

Ref Lvl 20 dBm
Marker 2 [T1] -42.57 dBm
6.58525050 GHz
RBW 100 kHz RF Att 30 dB
VBW 300 kHz
SWT 6.4 s Unit dBm

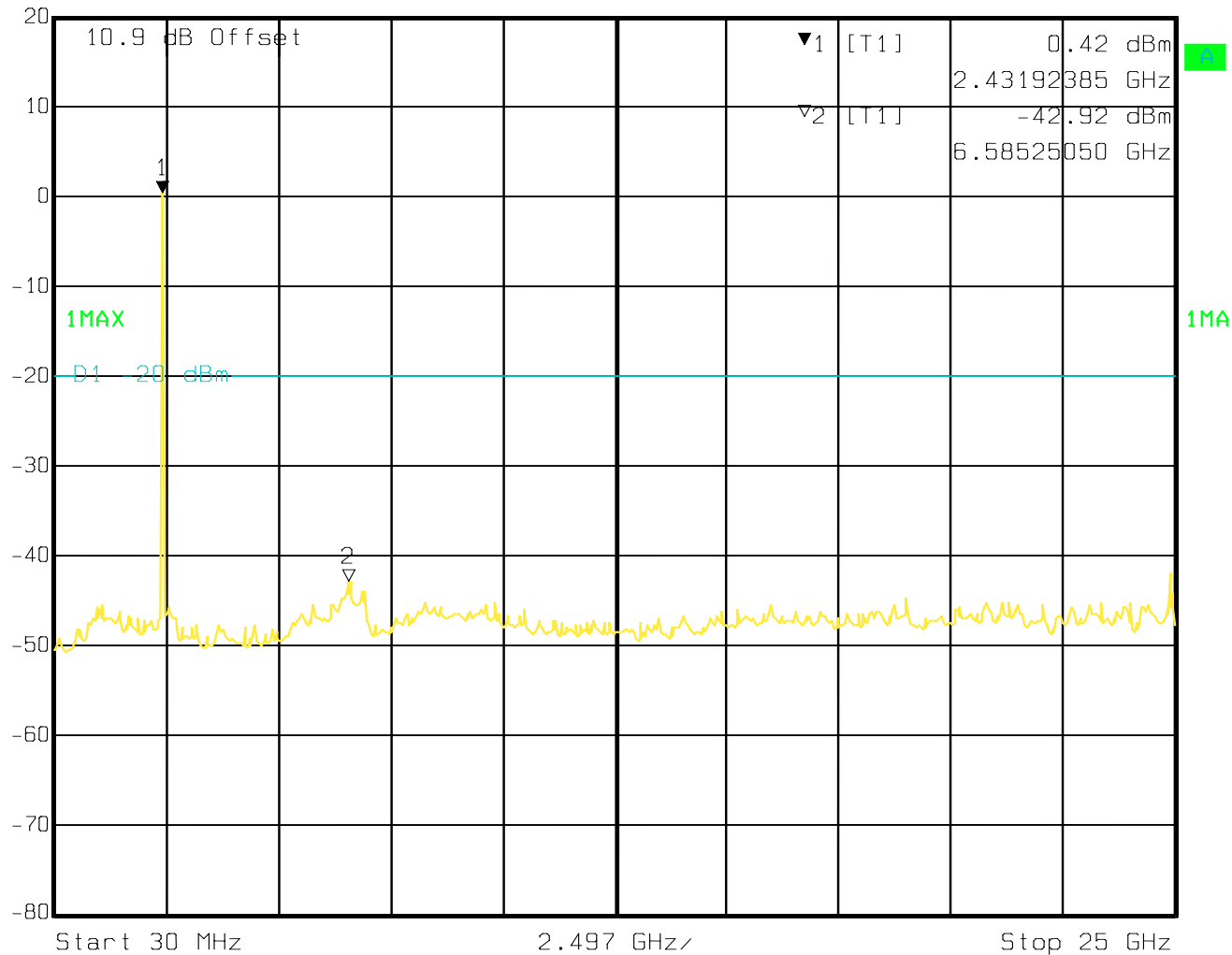


Date: 14.JAN.2010 17:25:54

Conducted Spurious Emission 2441 MHz

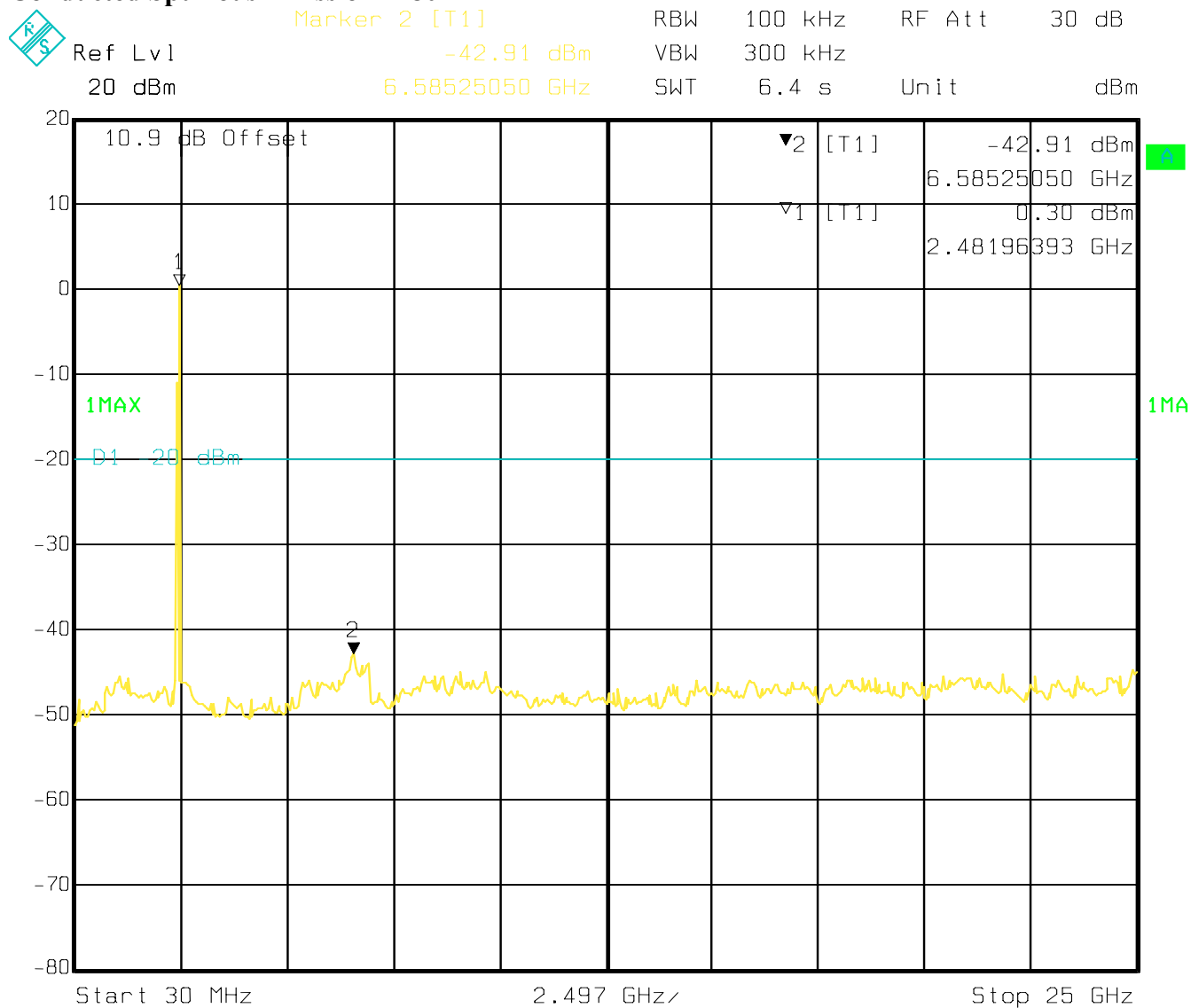


Ref Lvl 20 dBm
 Marker 1 [T1] 0.42 dBm
 RBW 100 kHz RF Att 30 dB
 VBW 300 kHz
 2.43192385 GHz
 SWT 6.4 s Unit dBm



Date: 14.JAN.2010 17:26:58

Conducted Spurious Emission 2480MHz

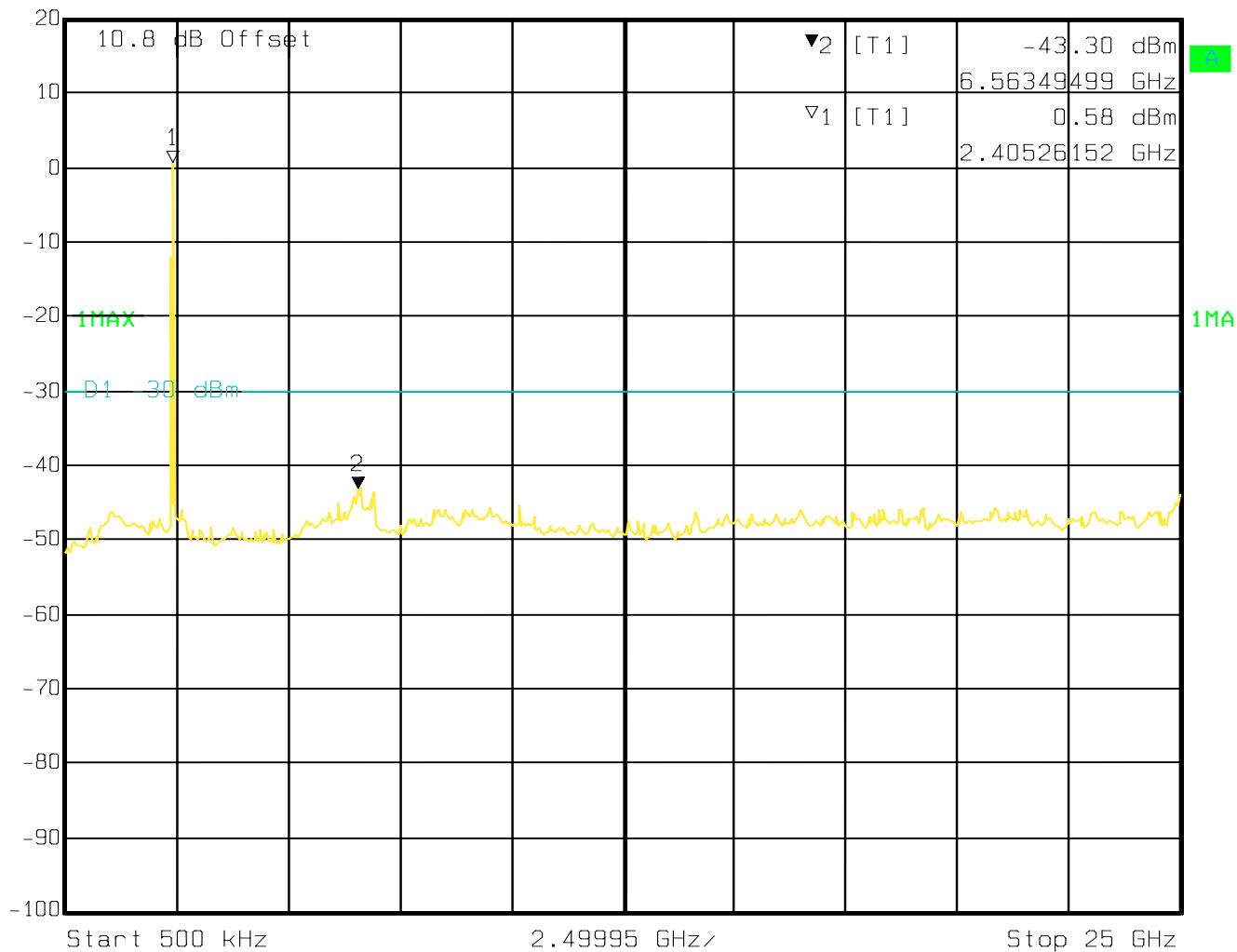


Date: 14.JAN.2010 17:27:55

Conducted Spurious Emission Co-Location



Ref Lvl 20 dBm
 Marker 2 [T1] -43.30 dBm
 6.56349499 GHz
 RBW 100 kHz RF Att 30 dB
 VBW 100 kHz
 SWT 6.4 s Unit dBm

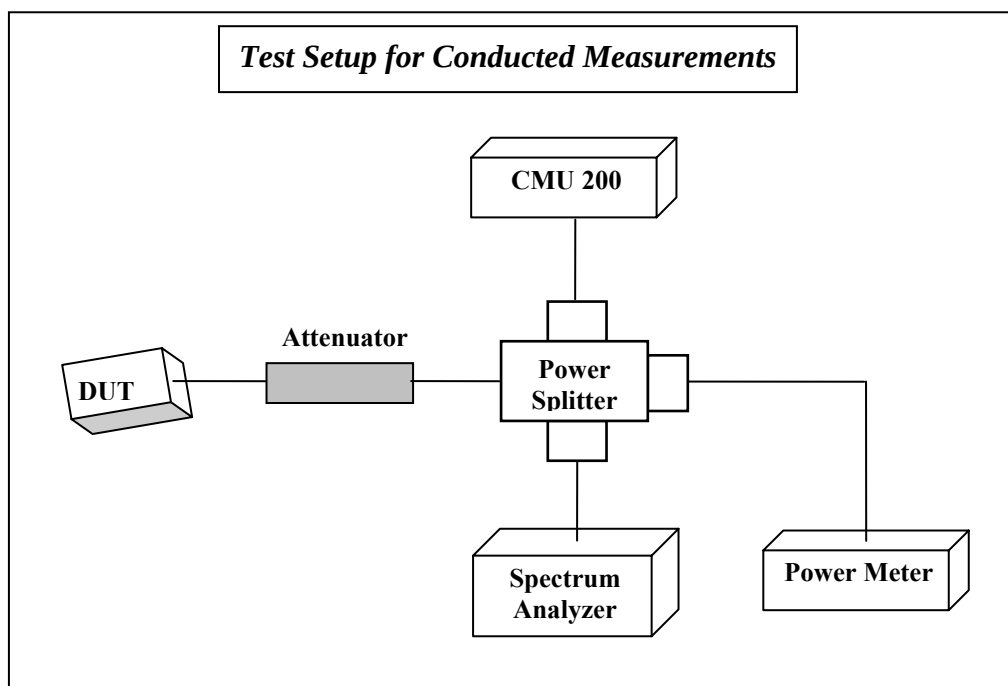


Date: 22.JAN.2010 07:54:28

6 Test Equipment and Ancillaries used for tests

No	Instrument/Ancillary	Type	Manufacturer	Serial No.	Cal Due	Interval
01	Spectrum Analyzer	ESIB 40	Rohde & Schwarz	100107	May 2010	1 year
02	Spectrum Analyzer	FSEM 30	Rohde & Schwarz	100017	May 2010	1 year
03	Signal Generator	SMY02	Rohde & Schwarz	836878/011	May 2010	1 year
04	Power-Meter	NRVD	Rohde & Schwarz	0857.8008.02	May 2010	1 year
05	Biconilog Antenna	3141	EMCO	0005-1186	June 2010	1 year
06	Horn Antenna (1-18GHz)	SAS-200/571	AH Systems	325	June 2010	1 year
07	Horn Antenna (18-26.5GHz)	3160-09	EMCO	1240	June 2010	1 year
08	Power Splitter	11667B	Hewlett Packard	645348	n/a	n/a
09	Climatic Chamber	VT4004	Voltsch	G1115	May 2010	1 year
10	High Pass Filter	5HC2700	Trilithic Inc.	9926013	n/a	n/a
11	High Pass Filter	4HC1600	Trilithic Inc.	9922307	n/a	n/a
12	Pre-Amplifier	JS4-00102600	Miteq	00616	May 2010	1 year
13	Power Sensor	URV5-Z2	Rohde & Schwarz	DE30807	May 2010	1 year
14	Digital Radio Comm. Tester	CMD-55	Rohde & Schwarz	847958/008	May 2010	1 year
15	Universal Radio Comm. Tester	CMU 200	Rohde & Schwarz	832221/06	May 2010	1 year
16	LISN	ESH3-Z5	Rohde & Schwarz	836679/003	May 2010	1 year
17	Loop Antenna	6512	EMCO	00049838	July 2010	2 years

7 BLOCK DIAGRAMS



Test Report #: EMC_PALMO_070_09001_15.247_BT_Conducted_rev1

Date of Report : 2010-03-16

Page 53 of 53



8 Revision History

2010-03-09: Original Report

2010-03-16: Replaces previous report number. Removed references to Industry Canada and UMTS. Updated FCC ID and model number