



# FCC Test Report

## FCC Part 15.247 for FHSS systems/ CANADA RSS-210

For

**Psion Teklogix Inc.**

**Psion Teklogix Handheld Computer**

**Model Number: PX750BT8**

**FCC ID: GM3PX750BT8**

**IC ID: 2739D-PX750BT8**

**TEST REPORT #: EMC\_PSION\_004\_15\_247\_FHSS\_PX750BT8\_rev1**

**DATE: 2008-6-23**



FCC listed:  
A2LA  
accredited

IC recognized #  
3462B

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Board of Directors: Dr. Harald Ansorge, Dr. Klaus Matkey, Hans Peter May



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**1 Assessment**

**The following is in compliance with the applicable criteria specified in FCC rules Part 15.247 of the Code of Federal Regulations and in compliance with the applicable criteria specified in Industry Canada rules RSS210.**

Company	Description	Model #
Psion Teklogix Inc.	Psion Teklogix Handheld Computer	PX750BT8

Technical responsibility for area of testing:

Marc Douat

2008-6-23 EMC & Radio (EMC Project Engineer)

Date Section Name Signature

The test results of this test report relate exclusively to the test item specified in Identification of the Equipment under Test. The 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.

This report is prepared by:

Peter Mu

2008-6-23 EMC & Radio (EMC Project Engineer)

Date Section Name Signature



## 2 Administrative Data

### 2.1 Identification of the Testing Laboratory

Company Name:	CETECOM Inc.
Department:	EMC
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:	<b>Error! Reference source not found.</b>

### 2.2 Identification of the Client

Applicant's Name:	Psion Teklogix Inc
Address Line 1:	2100 Meadowvale Boulevard
Address Line 2:	
City/ Zip Code	Mississauga, Ontario, L5N 7J9
Country:	Canada
Contact Person:	Sada Dharwarkar
Phone No.:	905-812-6200 ex 3358
Fax:	905-812-6301
e-mail:	Sada.dharwarkar@psionteklogix.com

### 2.3 Identification of the Manufacturer

Same as above applicant



### 3 Equipment under Test (EUT)

#### Specification of the Equipment under Test

Product Type	Handheld Device
Marketing Name:	Psion Teklogix Handheld Computer
Model No:	PX750BT8
HW Version:	A
SW Version :	A
Min/Nominal/Max Voltage:	3.3V/ 3.7V/ 4.2V
Type(s) of Modulation:	GFSK, DQPSK, 8DPSK
Antenna Gain:	1.1dBi
Output Power:	Radiated Output Power ( EIRP):
	GFSK: 1.9dBm (1.55mW)
	DQPSK: 4.0dBm (2.51mW)
	8PSK: 4.2dBm (2.63mW)
	Conducted Output Power:
	GFSK: 0.8dBm (1.20mW)
	DQPSK: 2.9dBm (1.95mW)
	8PSK: 3.1dBm (2.04mW)

#### 3.1 Identification of the Equipment under Test (EUT)

EUT #	TYPE	MANF.	MODEL	SERIAL #
1	EUT	Psion	PX750BT8	07
2	EUT	Psion	PX750BT8	09

#### 3.2 Identification of Accessory equipment

AE #	TYPE	MANF.	MODEL	SERIAL #
1	Internal Battery	Psion	WA3006	WA7AC8083508



#### 4 Subject Of Investigation

All testing was performed on the product referred to in Section 3 as EUT. This test report contains full radiated and contacted testing as per FCC15.247 on the EUT with the Bluetooth module.

During the testing process the EUT was tested on low, mid, and high channels using PRBS9 payload using DH5, 2DH5, and 3DH5 packets, all data in this report shows the worst case between horizontal and vertical polarization for above 1GHz.

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 and Industry Canada rules RSS210. The maximization of portable equipment is conducted in accordance with ANSI C63.4.



5 Measurements (RADIATED)

5.1 MAXIMUM PEAK OUTPUT POWER § 15.247 (RADIATED)

5.1.1 LIMIT SUB CLAUSE § 15.247 (b) (1) (2) (3) (4)

Frequency range	RF power output
2400-2483.5 MHz	36dBm EIRP

\*limit is based upon antenna gain of less than or equal to 6dBi.

5.1.2 Test Results

EIRP = Conducted Peak Power + Antenna Gain (1.1dBi)

EIRP: GFSK

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		2402	2441	2480
T <sub>nom</sub> (23)°C	V <sub>nom</sub> VDC	1.0	1.4	1.9
Measurement uncertainty		±0.5dBm		

EIRP:  $\pi / 4$  DQPSK

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		2402	2441	2480
T <sub>nom</sub> (23)°C	V <sub>nom</sub> VDC	3.7	3.8	4.0
Measurement uncertainty		±0.5dBm		

EIRP: 8DPSK

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		2402	2441	2480
T <sub>nom</sub> (23)°C	V <sub>nom</sub> VDC	3.8	4.1	4.2
Measurement uncertainty		±0.5dBm		





**5.2 RESTRICTED BAND EDGE COMPLIANCE RADIATED §15.247/15.205**

**5.2.1 LIMITS**

30.□ Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
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
6.215 - 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	2690 - 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	( <sup>2</sup> )
13.36 - 13.41			

\*PEAK LIMIT= 74dBuV/m

\*AVG. LIMIT= 54dBuV/m

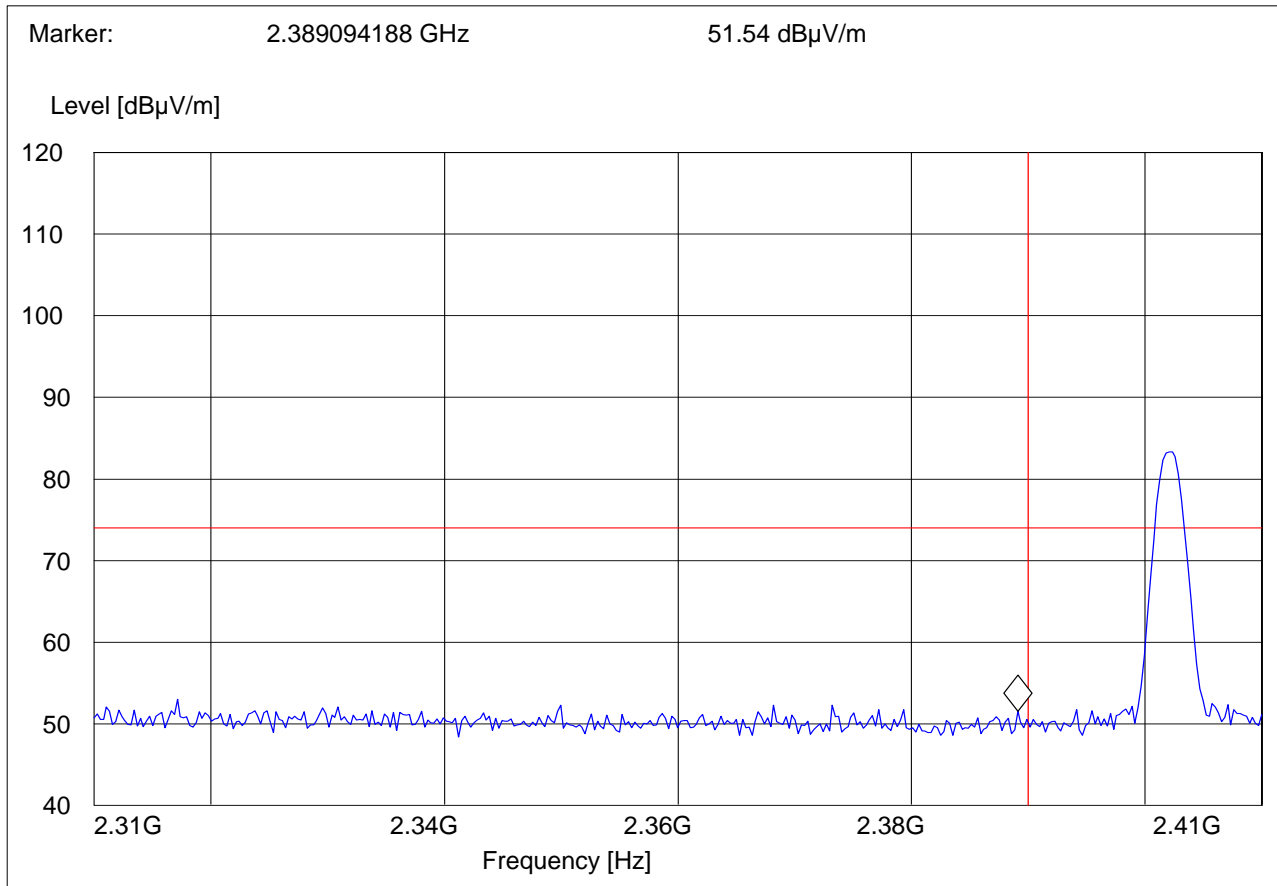


**5.2.2 RESULTS: GFSK  
(2402MHz) LOWER BAND EDGE PEAK –GFSK MODULATION**

EUT: PX750  
Customer:: PSION  
Test Mode: BT DH5 CH0  
ANT Orientation: H  
EUT Orientation: V  
Test Engineer: Sam  
Voltage: battery  
Comments:

**SWEEP TABLE: "FCC15.247 LBE\_PK"**

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert
		MaxPeak			



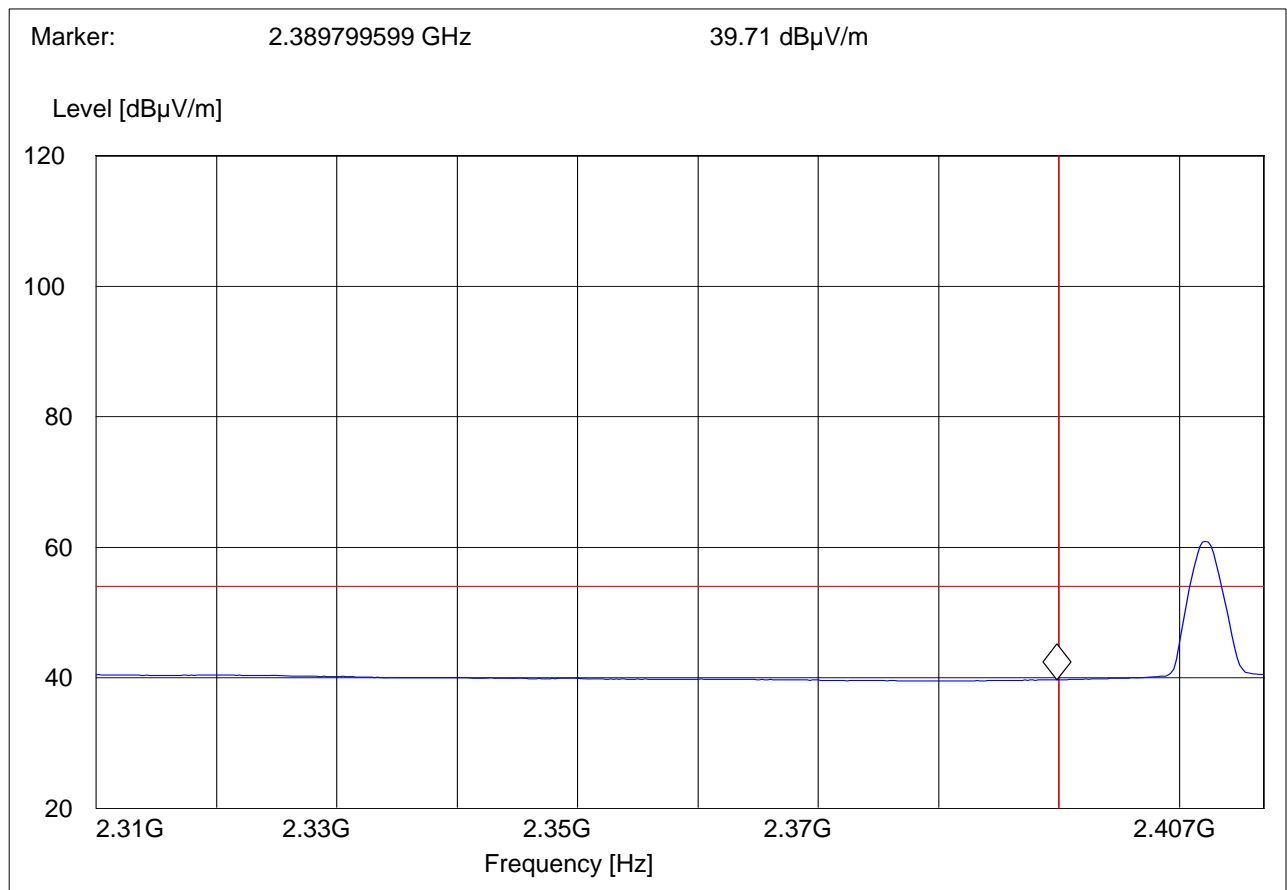


**(2402MHz) LOWER BAND EDGE AVERAGE –GFSK MODULATION**

EUT: PX750  
 Customer:: PSION  
 Test Mode: BT DH5 CH0  
 ANT Orientation: V  
 EUT Orientation: V  
 Test Engineer: Sam  
 Voltage: battery  
 Comments:

**SWEEP TABLE: "FCC15.247 LBE\_AVG"**

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert



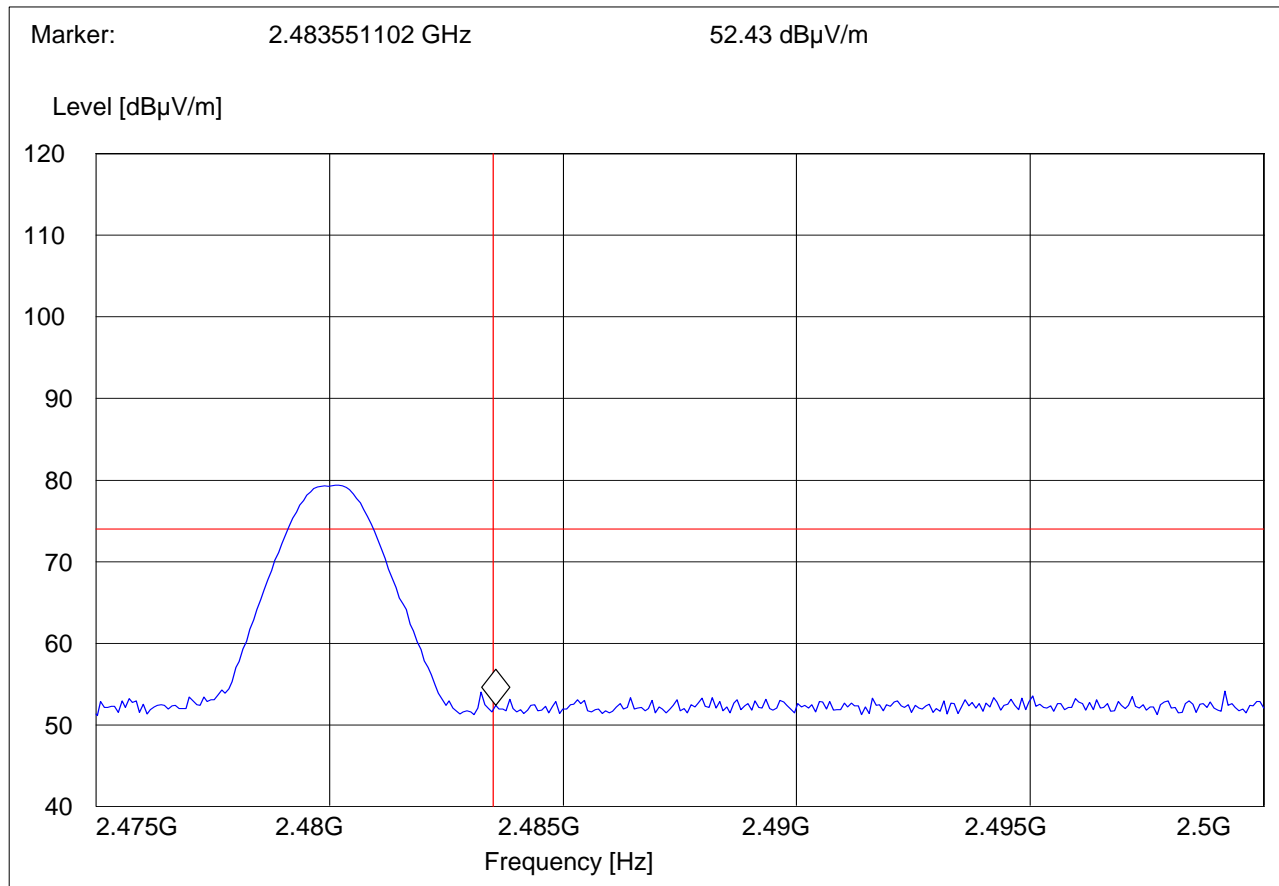


**(2480MHz) HIGHER BAND EDGE PEAK –GFSK MODULATION**

EUT: PX750  
Customer:: PSION  
Test Mode: BT DH5 CH78  
ANT Orientation: V  
EUT Orientation: V  
Test Engineer: Sam  
Voltage: battery  
Comments:

***SWEEP TABLE: "FCC15.247 HBE\_PK"***

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak MaxPeak	Coupled	1 MHz	#326horn_AF_vert



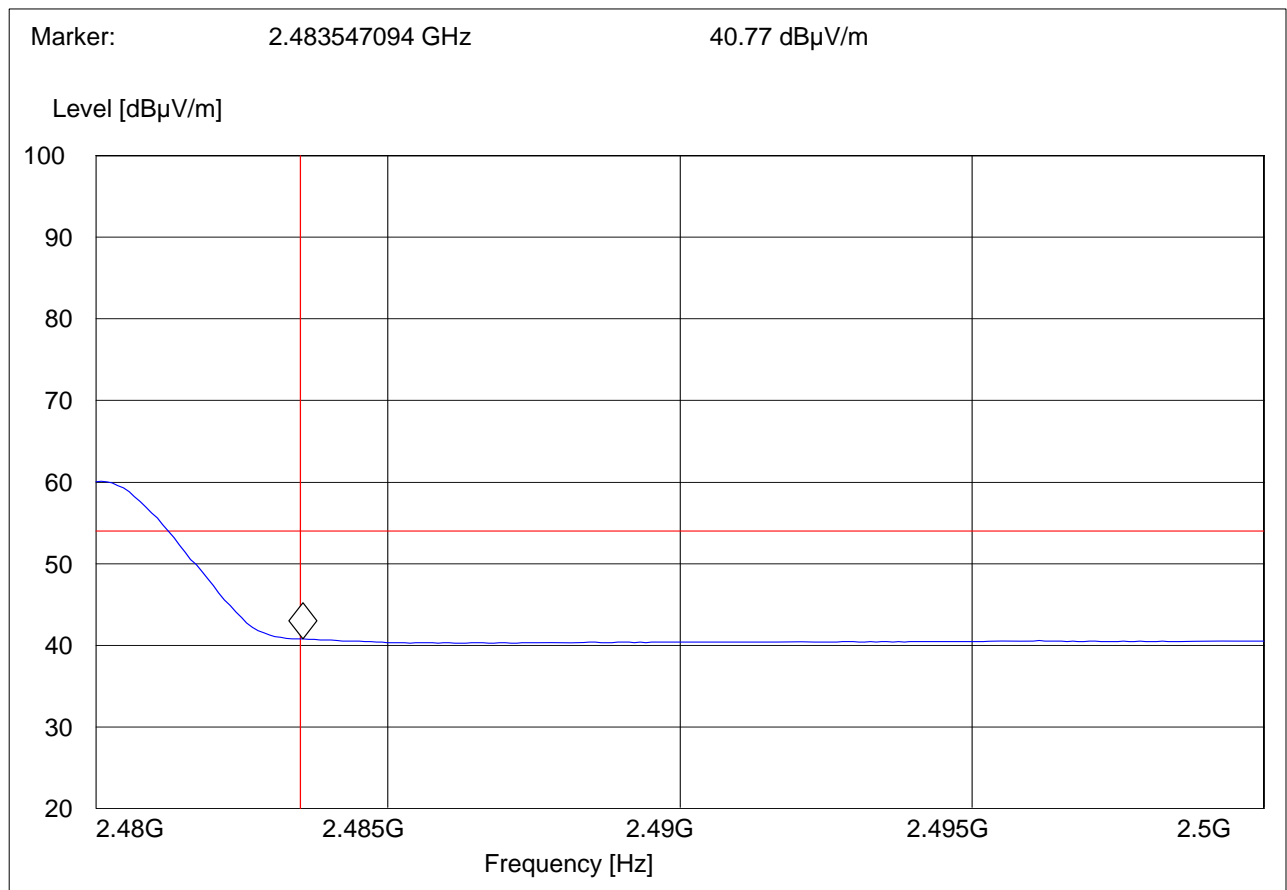


**HIGHER BAND EDGE AVERAGE-GFSK MODULATION**

EUT: PX750  
 Customer:: PSION  
 Test Mode: BT DH5 CH78  
 ANT Orientation: V  
 EUT Orientation: V  
 Test Engineer: Sam  
 Voltage: battery  
 Comments:

**SWEEP TABLE: "FCC15.247 HBE\_AVG"**

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz



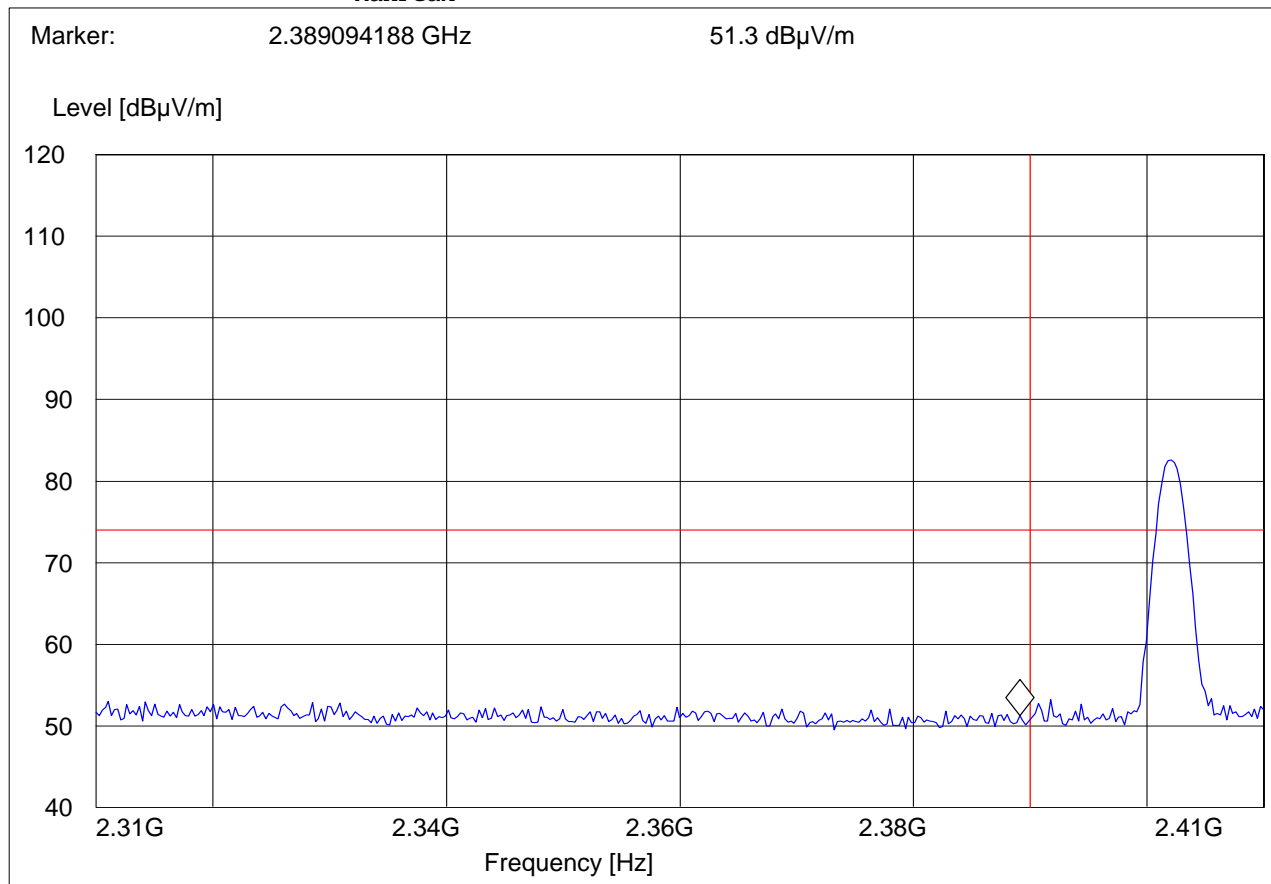


**5.2.3 RESULTS:  $\pi/4$  DQPSK  
 (2402MHz) LOWER BAND EDGE PEAK –  $\pi/4$  DQPSK MODULATION**

EUT: PX750  
 Customer:: PSION  
 Test Mode: BT 2DH5 CH0  
 ANT Orientation: V  
 EUT Orientation: V  
 Test Engineer: Sam  
 Voltage: battery  
 Comments:

**SWEEP TABLE: "FCC15.247 LBE\_PK"**

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert
		MaxPeak			



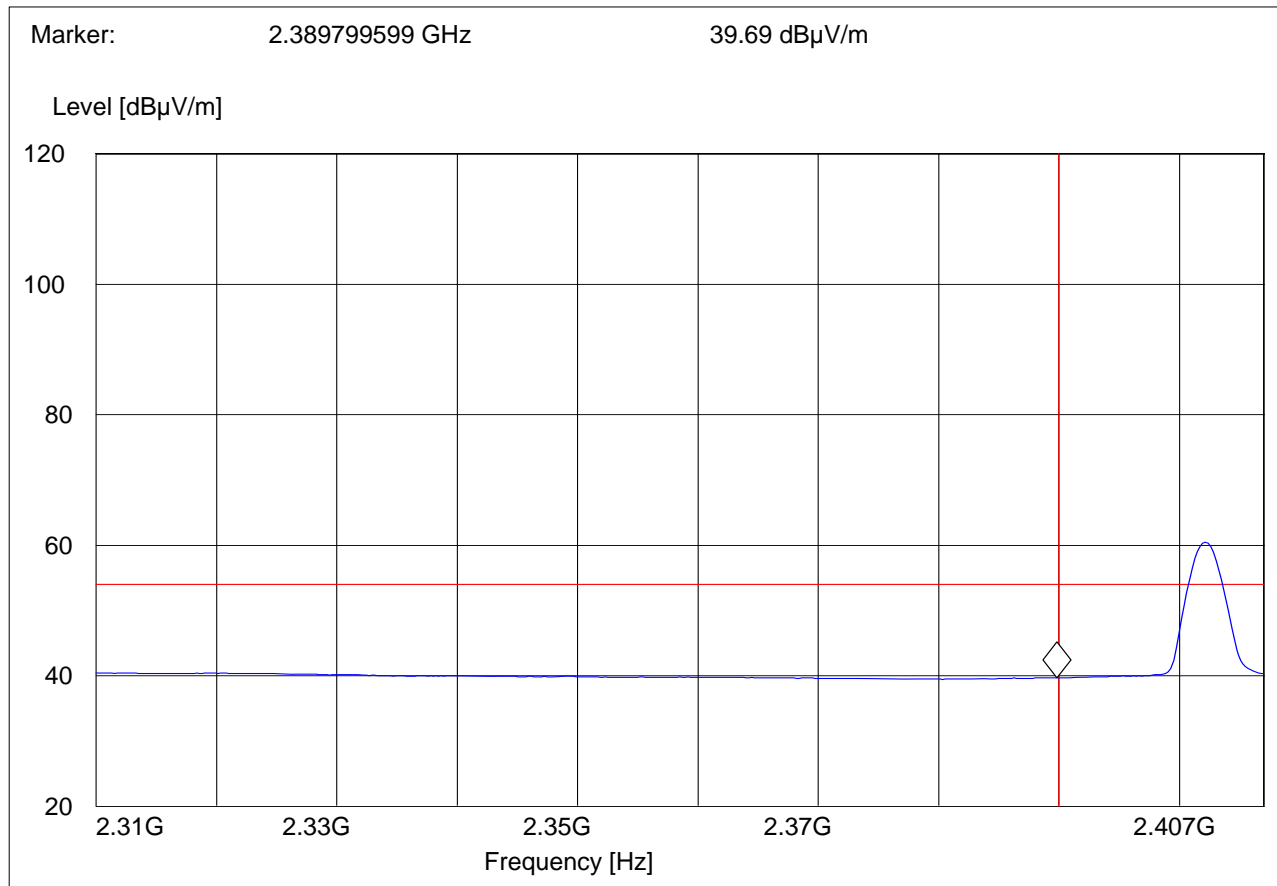


**(2402MHz) LOWER BAND EDGE AVERAGE  $-\pi/4$  DQPSK MODULATION**

EUT: PX750  
Customer:: PSION  
Test Mode: BT 2DH5 CH0  
ANT Orientation: V  
EUT Orientation: V  
Test Engineer: Sam  
Voltage: battery  
Comments:

**SWEEP TABLE: "FCC15.247 LBE\_AVG"**

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert



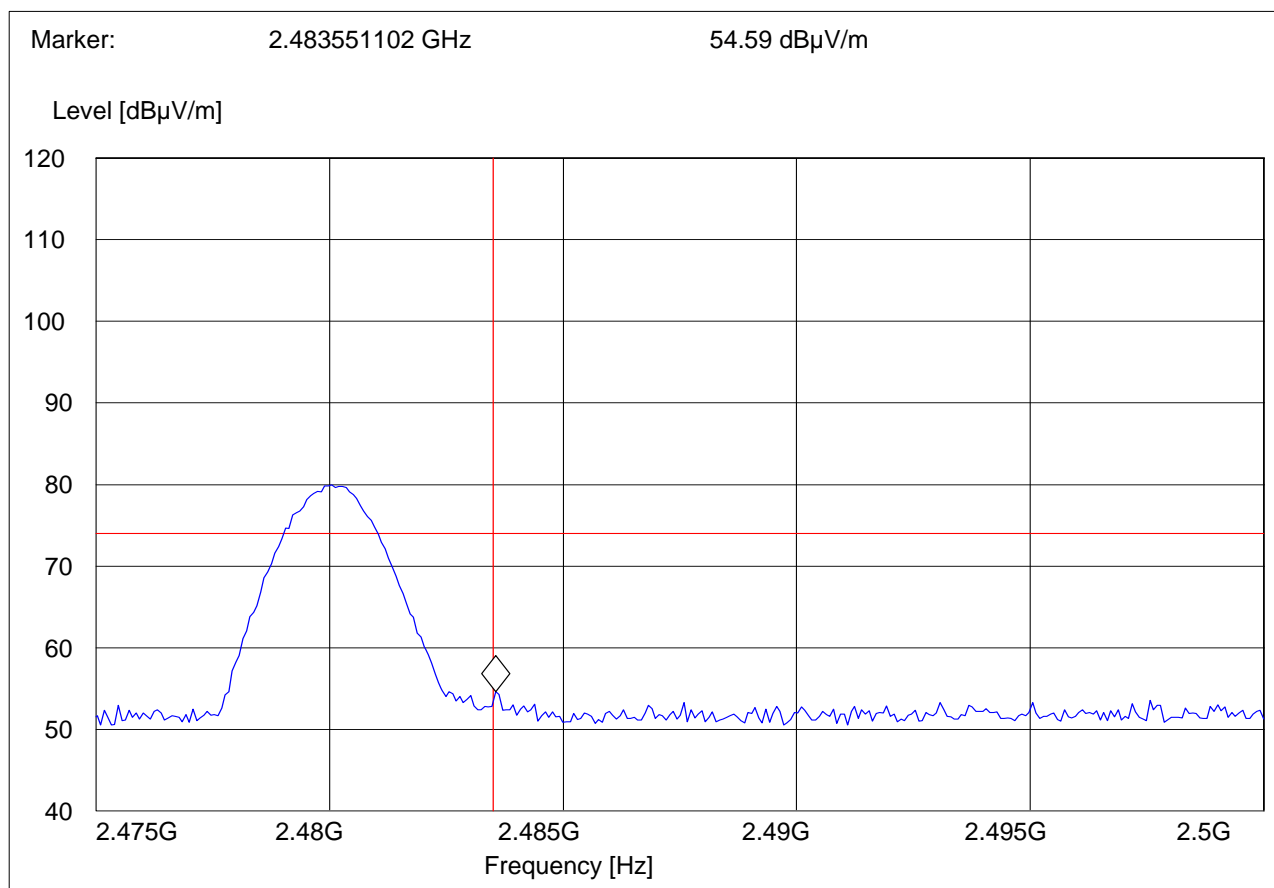


**(2480MHz) HIGHER BAND EDGE PEAK  $-\pi/4$  DQPSK MODULATION**

EUT: PX750  
 Customer:: PSION  
 Test Mode: BT 2DH5 CH78  
 ANT Orientation: V  
 EUT Orientation: V  
 Test Engineer: Sam  
 Voltage: battery  
 Comments:

**SWEEP TABLE: "FCC15.247 HBE\_PK"**

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert
		MaxPeak			





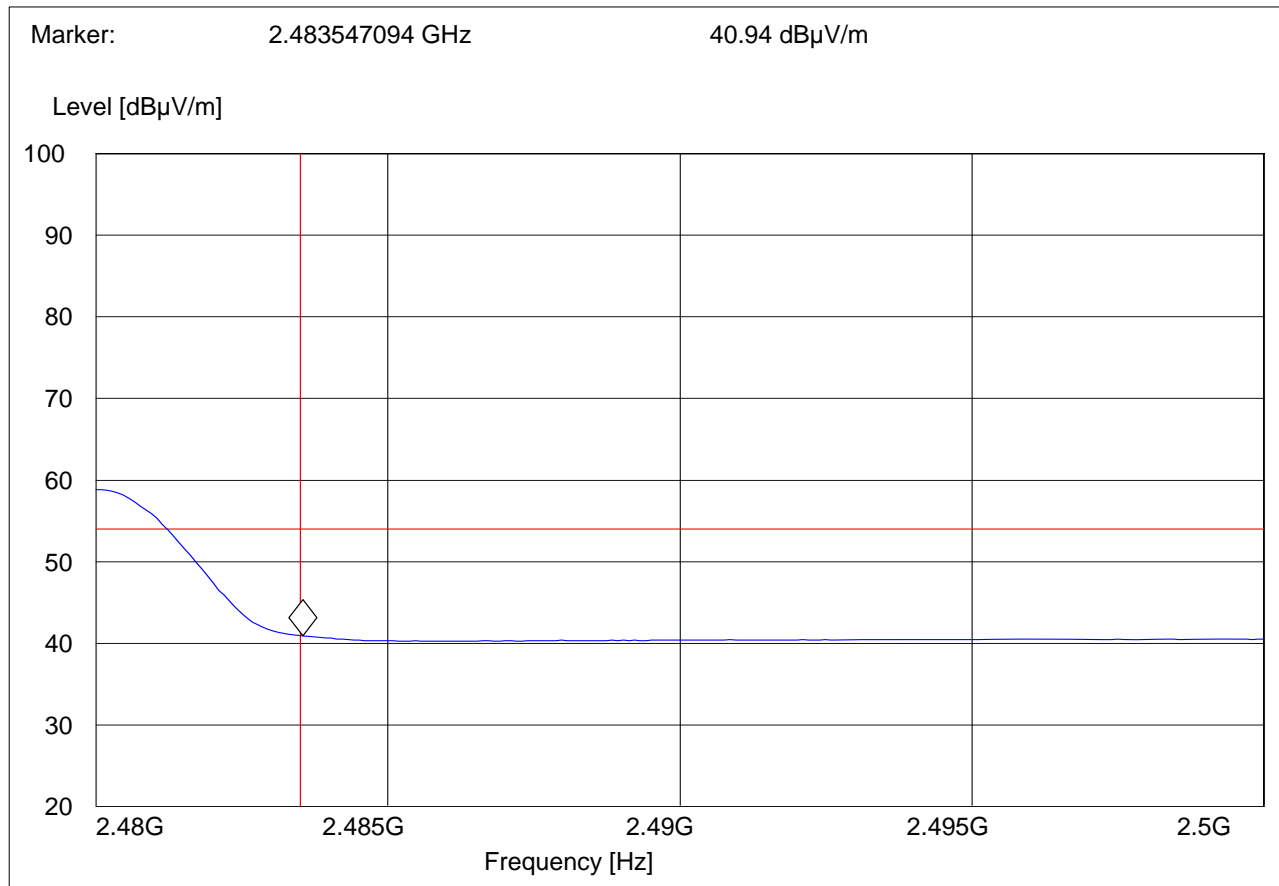


**HIGHER BAND EDGE AVERAGE-  $\pi/4$  DQPSK MODULATION**

EUT: PX750  
 Customer:: PSION  
 Test Mode: BT 2DH5 CH78  
 ANT Orientation: V  
 EUT Orientation: V  
 Test Engineer: Sam  
 Voltage: battery  
 Comments:

**SWEEP TABLE: "FCC15.247 HBE\_AVG"**

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz





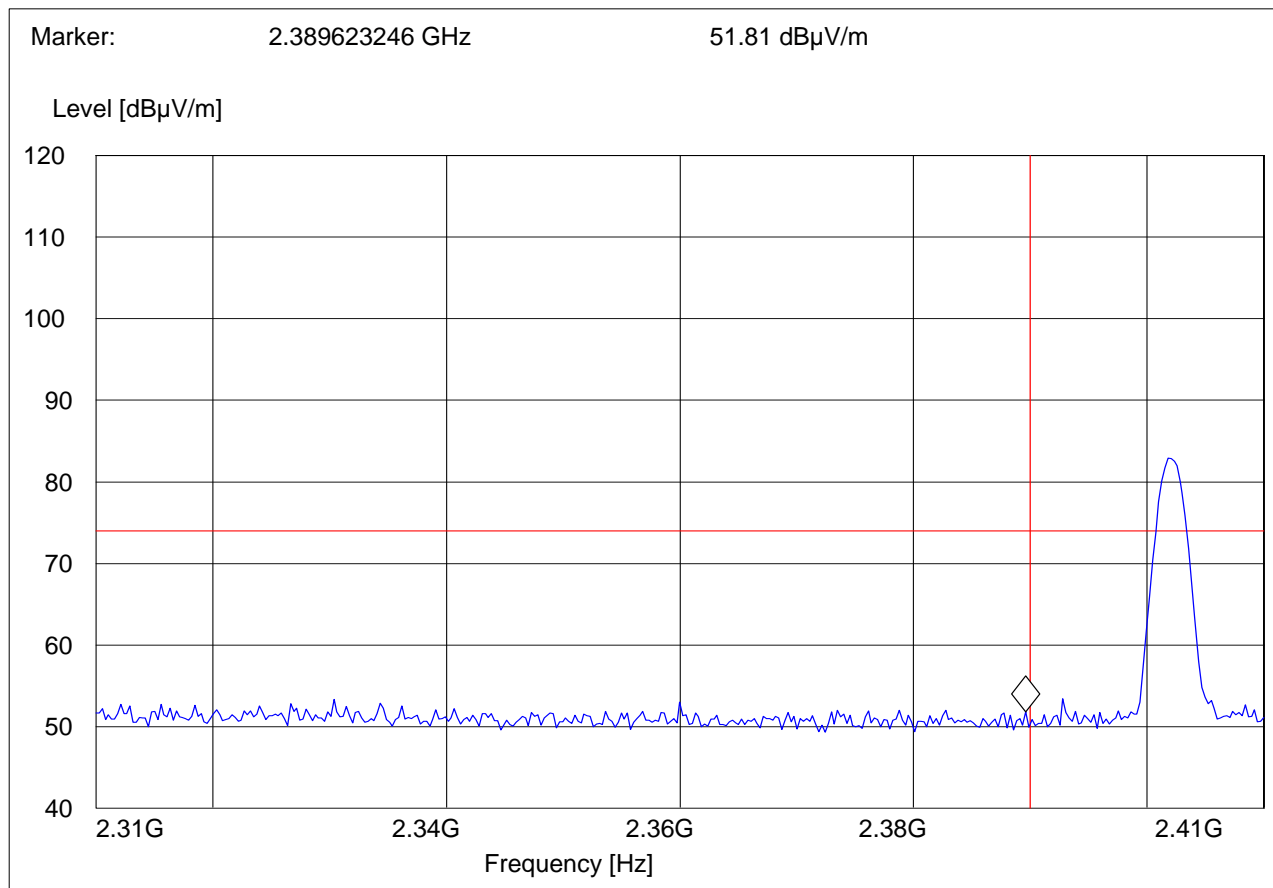
**5.2.4 RESULTS: 8DPSK**

**(2402MHz) LOWER BAND EDGE PEAK – 8DPSK MODULATION**

EUT: PX750  
 Customer:: PSION  
 Test Mode: BT 3DH5 CH0  
 ANT Orientation: V  
 EUT Orientation: V  
 Test Engineer: Sam  
 Voltage: battery  
 Comments:

**SWEEP TABLE: "FCC15.247 LBE\_PK"**

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert
		MaxPeak			



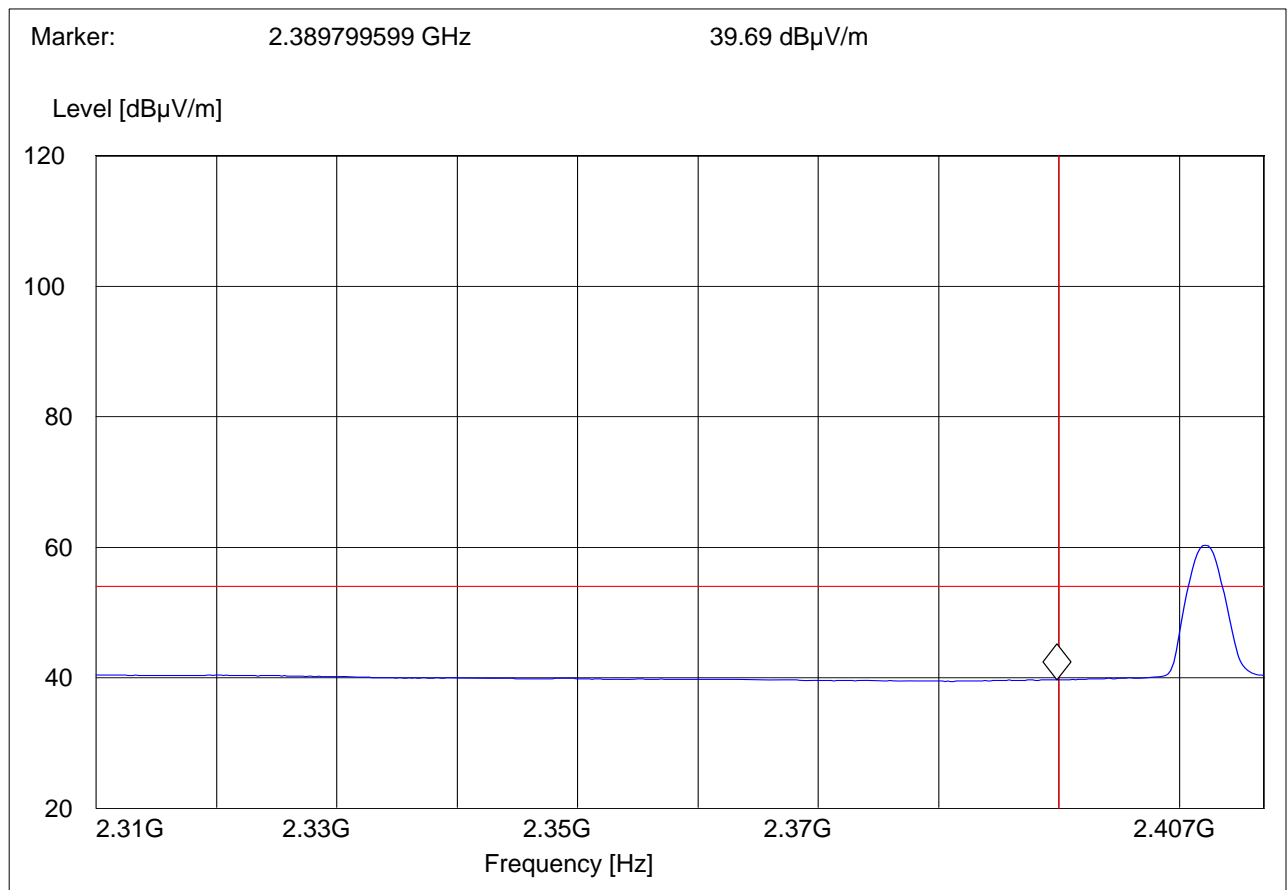


**(2402MHz) LOWER BAND EDGE AVERAGE -8DPSK MODULATION**

EUT: PX750  
Customer:: PSION  
Test Mode: BT 3DH5 CH0  
ANT Orientation: V  
EUT Orientation: V  
Test Engineer: Sam  
Voltage: battery  
Comments:

**SWEEP TABLE: "FCC15.247 LBE\_AVG"**

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert



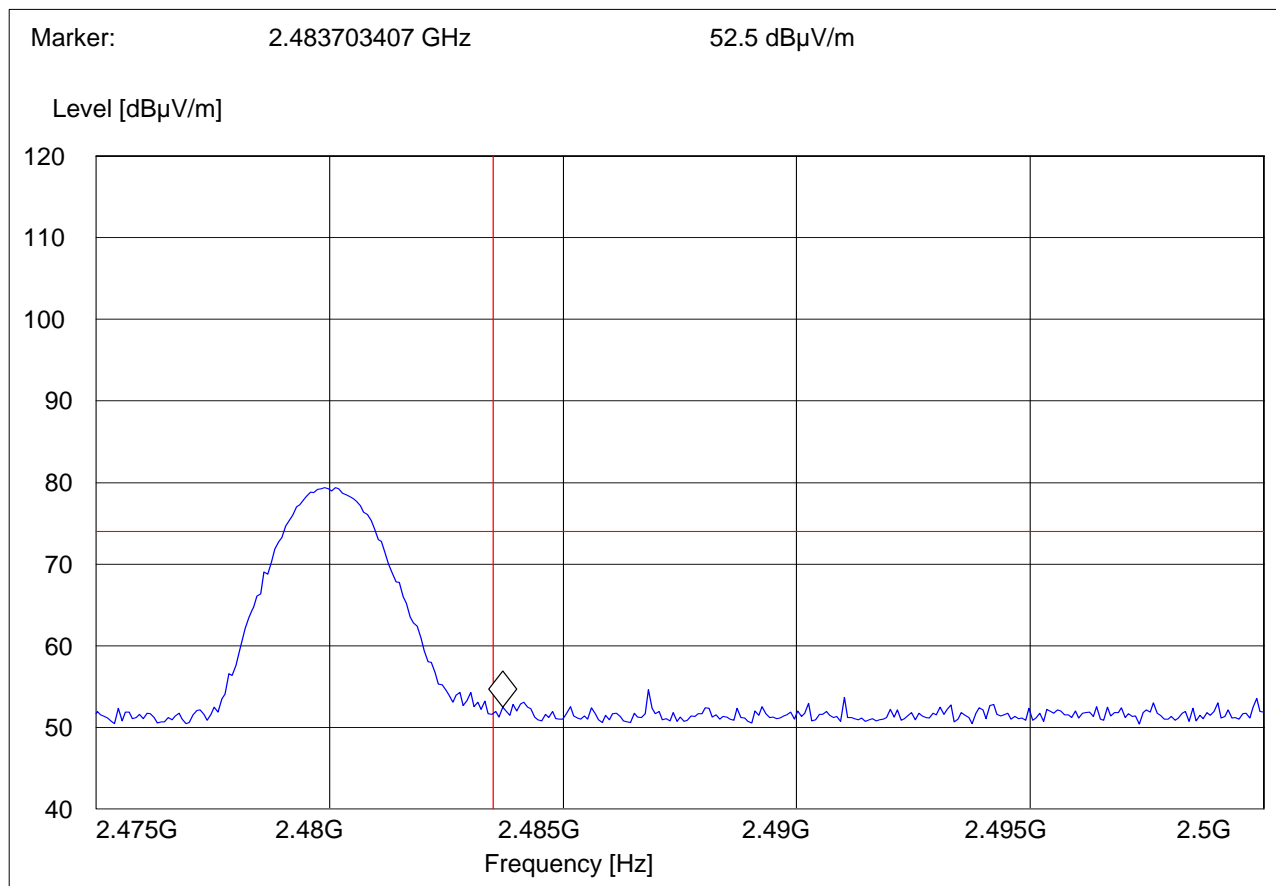


**(2480MHz) HIGHER BAND EDGE PEAK – 8DPSK MODULATION**

EUT: PX750  
 Customer:: PSION  
 Test Mode: BT 3DH5 CH78  
 ANT Orientation: V  
 EUT Orientation: V  
 Test Engineer: Sam  
 Voltage: battery  
 Comments:

***SWEEP TABLE: "FCC15.247 HBE\_PK"***

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert
		MaxPeak			



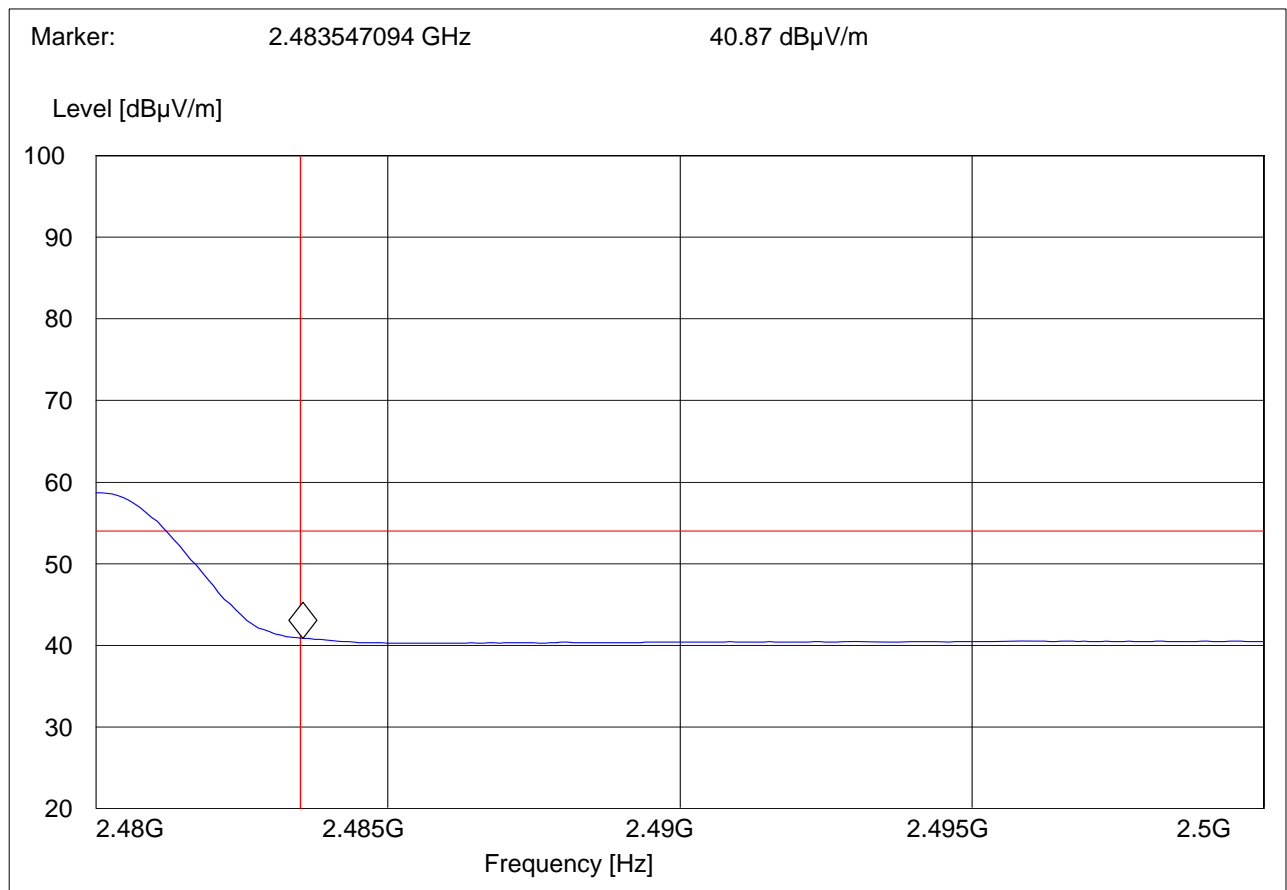


**HIGHER BAND EDGE AVERAGE-8DPSK MODULATION**

EUT: PX750  
 Customer:: PSION  
 Test Mode: BT 3DH5 CH78  
 ANT Orientation: V  
 EUT Orientation: V  
 Test Engineer: Sam  
 Voltage: battery  
 Comments:

**SWEEP TABLE: "FCC15.247 HBE\_AVG"**

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz





**5.3 TRANSMITTER SPURIOUS EMISSIONS RADIATED § 15.247/15.205/15.209**

**5.3.1 LIMITS**

Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
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
6.215 - 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	2690 - 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	( <sup>2</sup> )
13.36 - 13.41			

\*PEAK LIMIT= 74dBuV/m

\*AVG. LIMIT= 54dBuV/m

**NOTE:**

1. The radiated emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges. This is the reason that the graphs show different noise levels. In the range between 3 and 25 GHz very short cable connections to the antenna was used to minimize the noise level.

2. All measurements are done in peak mode using an average limit , unless specified with the plots.

**Results for the radiated measurements below 30MHz according § 15.33**

Frequency	Measured values	Remarks
9KHz – 30MHz	No emissions found, caused by the EUT	This is valid for all the tested channels

All Spurious Emission measurements are done in GFSK mode and represents the worse case emission from the device.



**5.3.2 RESULTS**

**30MHz – 1GHz Antenna: vertical**

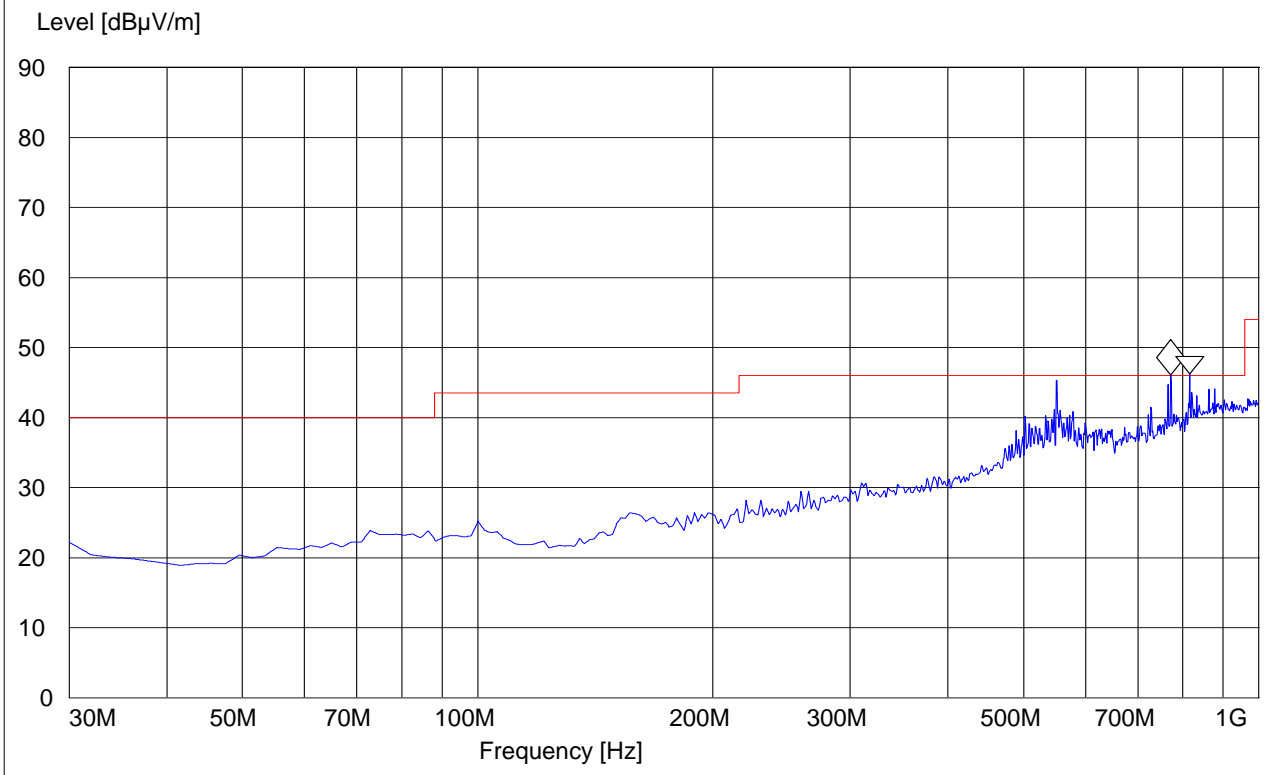
Note: This plot is valid for low, mid, high channels (worst-case plot)  
 Note: Peak measurement against Quasipeak limit. See Quasipeak measurements below.

Customer::  
 Test Mode:  
 ANT Orientation: V  
 EUT Orientation: v  
 Test Engineer:  
 Voltage: battery  
 Comments:

**SWEEP TABLE: "FCC15.247\_30M-1G\_Ver"**

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Vert

Marker: 770.621242 MHz 46.09 dBµV/m  
 Delta Mk: 44.709419 MHz 0.12 dB



FREQ	PEAK	QP
550.961924	46.10dBuV/m	40.10dBuV/m
770.621242	47.09dBuV/m	41.79dBuV/m
815.330661	46.01dBuV/m	40.59dBuV/m



**30MHz – 1GHz Antenna: horizontal**

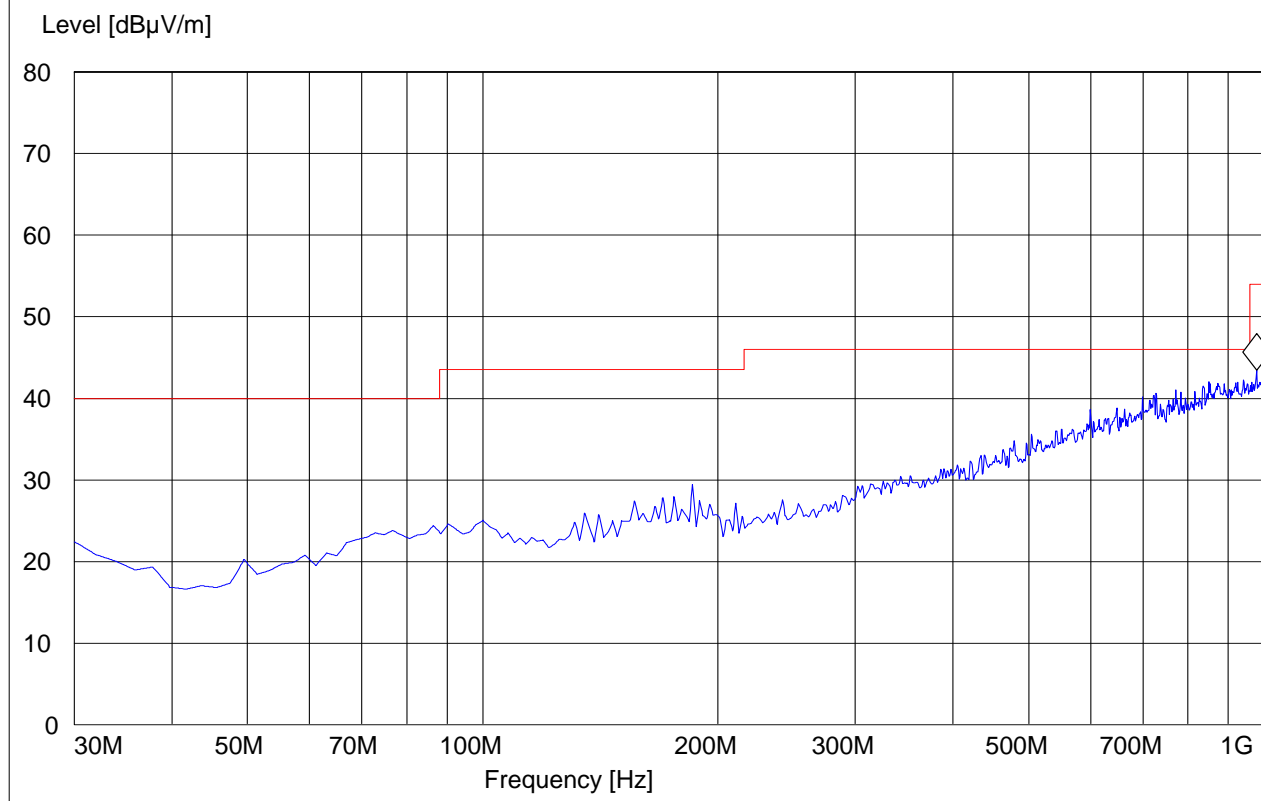
Note: This plot is valid for low, mid, high channels (worst-case plot)  
Note: Peak measurement against Quasipeak limit.

EUT: PX750  
Customer:: PSION  
Test Mode:  
ANT Orientation: H  
EUT Orientation: V  
Test Engineer: Chris  
Voltage: Battery  
Comments:

**SWEEP TABLE: "FCC15.247\_30M-1G\_Hor"**

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Horz

Marker: 978.617234 MHz 43.45 dBμV/m







**1-3GHz (2402MHz)**

**Note: The peak above the limit line is the carrier freq.**

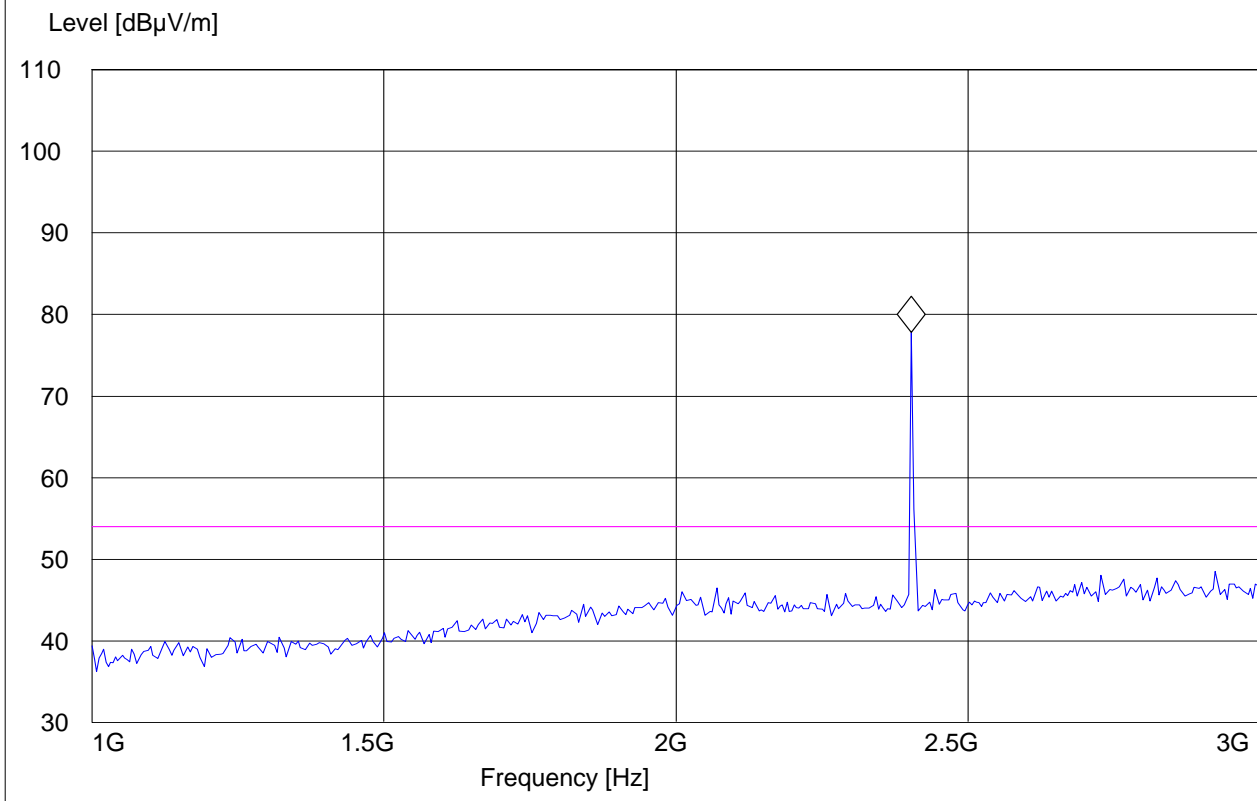
**Note: Peak Reading vs. Average limit**

EUT: PX750  
 Customer:: PSION  
 Test Mode: BT CH 0; 2402 MHz  
 ANT Orientation: V  
 EUT Orientation: V  
 Test Engineer: Chris  
 Voltage: Battery  
 Comments:

**SWEEP TABLE: "FCC15.247\_1-3G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 2.402805611 GHz 77.81 dB $\mu$ V/m





1-3GHz (2441MHz)

Note: The peak above the limit line is the carrier freq.

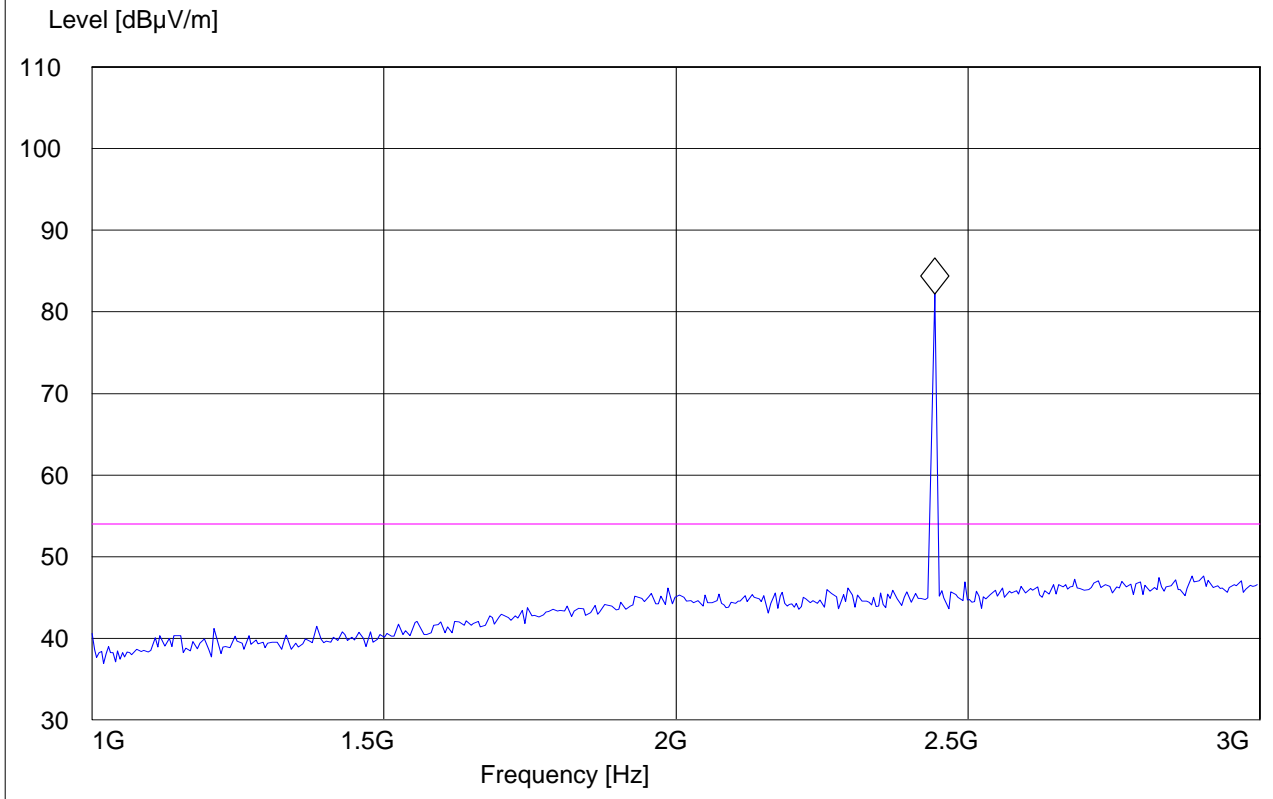
Note: Peak Reading vs. Average limit EUT: 04ET10o

EUT: PX750  
Customer:: PSION  
Test Mode: BT CH 39; 2441 MHz  
ANT Orientation: V  
EUT Orientation: V  
Test Engineer: Chris  
Voltage: Battery  
Comments:

SWEEP TABLE: "FCC15.247\_1-3G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 2.442885772 GHz 82.15 dBµV/m





**1-3GHz (2480MHz)**

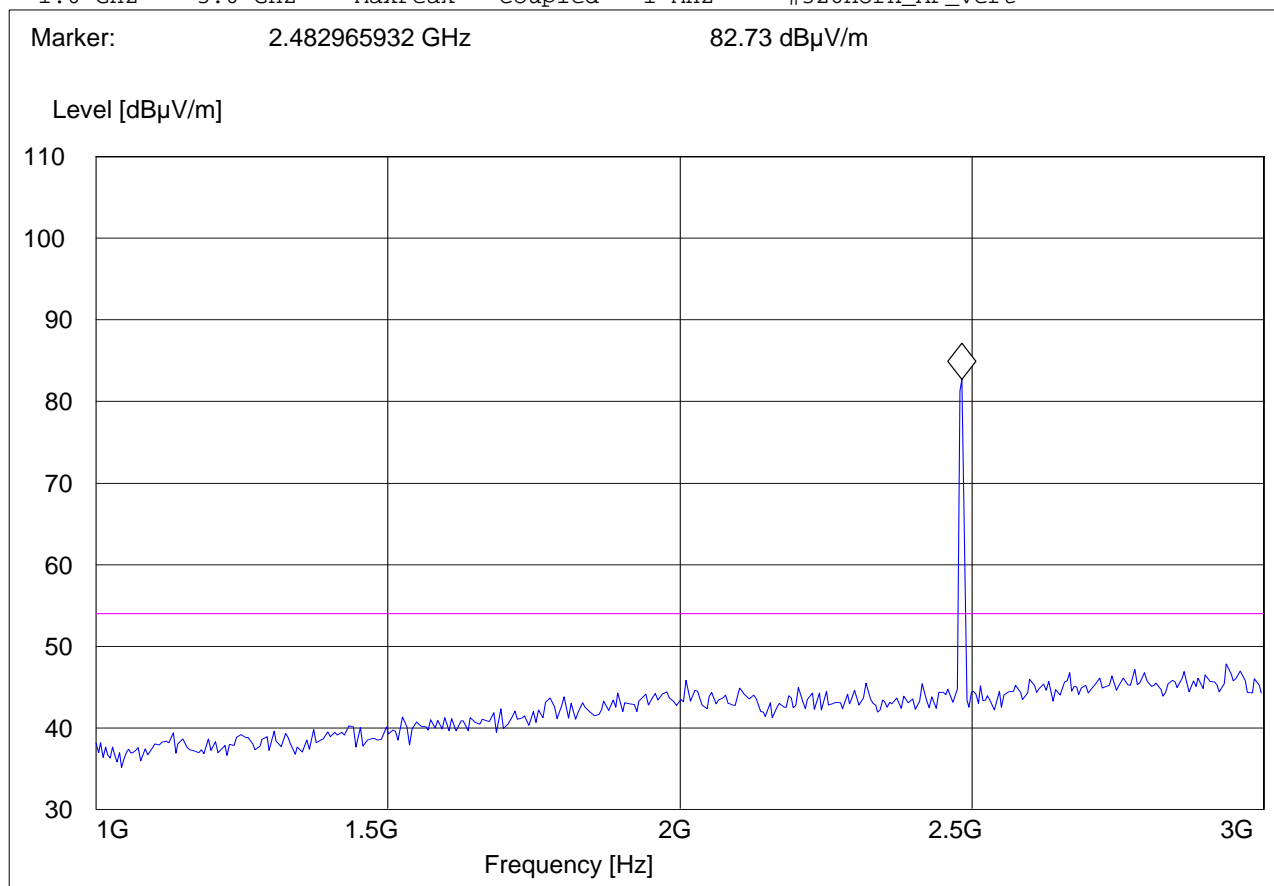
**Note: The peak above the limit line is the carrier freq.**

**Note: Peak Reading vs. Average limit** EUT: 04ET10o

EUT: PX750  
 Customer:: PSION  
 Test Mode: BT CH 78; 2480 MHz  
 ANT Orientation: V  
 EUT Orientation: V  
 Test Engineer: Chris  
 Voltage: Battery  
 Comments:

**SWEEP TABLE: "FCC15.247\_1-3G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert





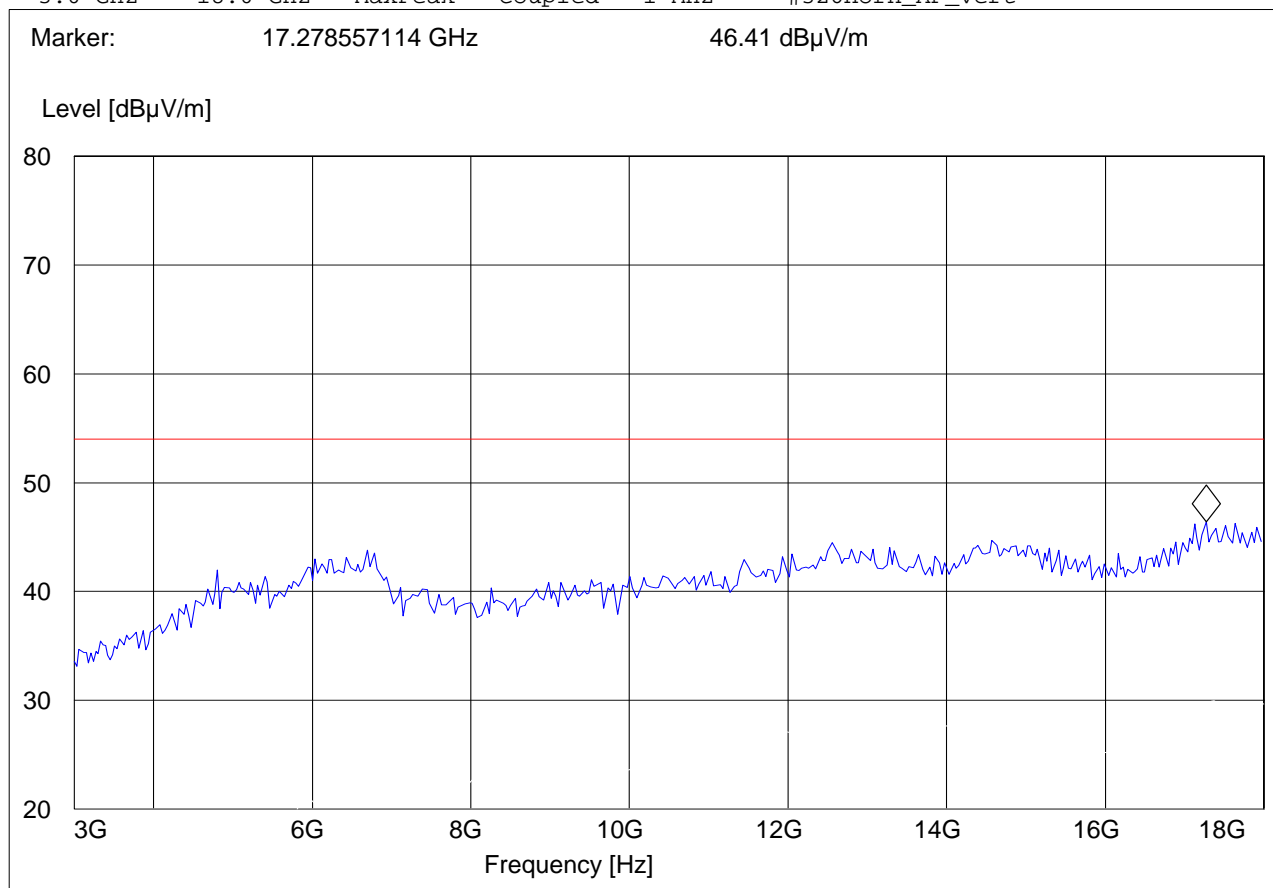
**3-18GHz (2402MHz)**

**Note: Peak Reading vs. Average limit**

EUT: PX750  
 Customer:: PSION  
 Test Mode: BT  
 ANT Orientation: V  
 EUT Orientation: V  
 Test Engineer: Chris  
 Voltage: BATTERY  
 Comments: With 2.4GHz notch filter

**SWEEP TABLE: "FCC15.247\_3-18G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
3.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert





**3-18GHz (2441MHz)**

**Note: Peak Reading vs. Average limit**

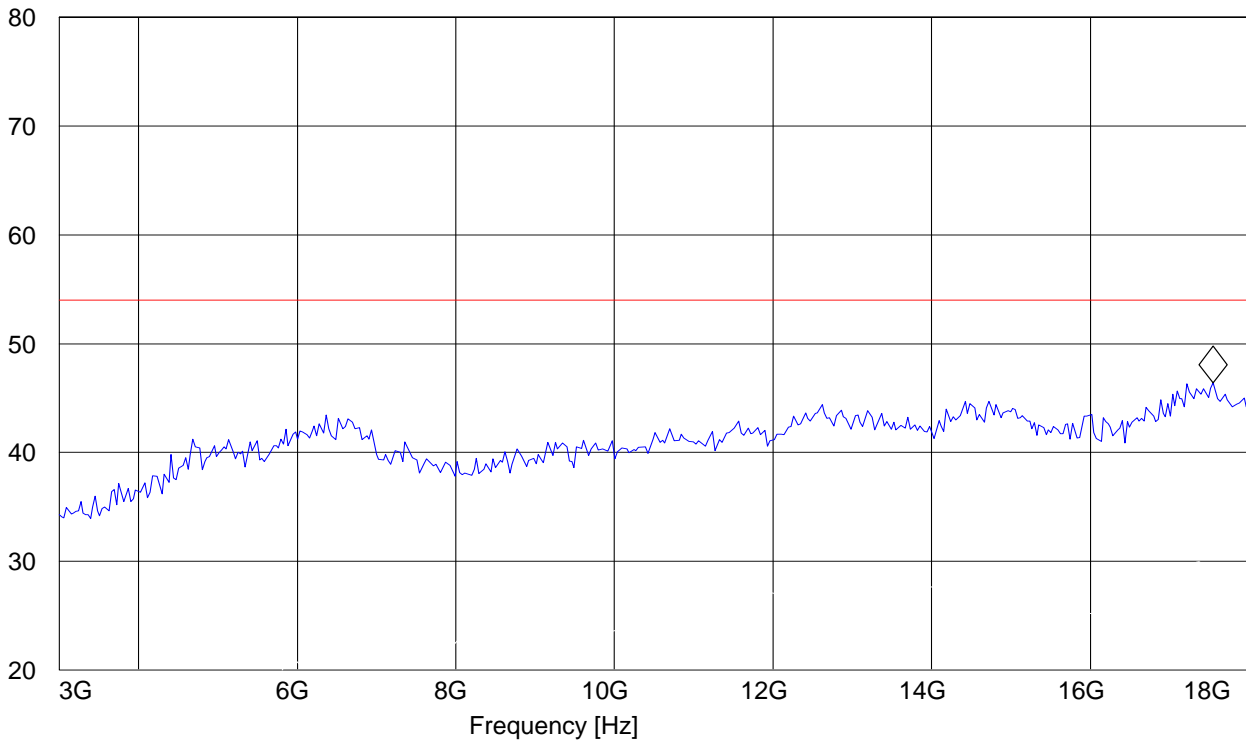
EUT: PX750  
 Customer:: PSION  
 Test Mode: BT  
 ANT Orientation: V  
 EUT Orientation: V  
 Test Engineer: Chris  
 Voltage: BATTERY  
 Comments: With 2.4GHz notch filter

**SWEEP TABLE: "FCC15.247\_3-18G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
3.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 17.549098196 GHz 46.42 dBµV/m

Level [dBµV/m]





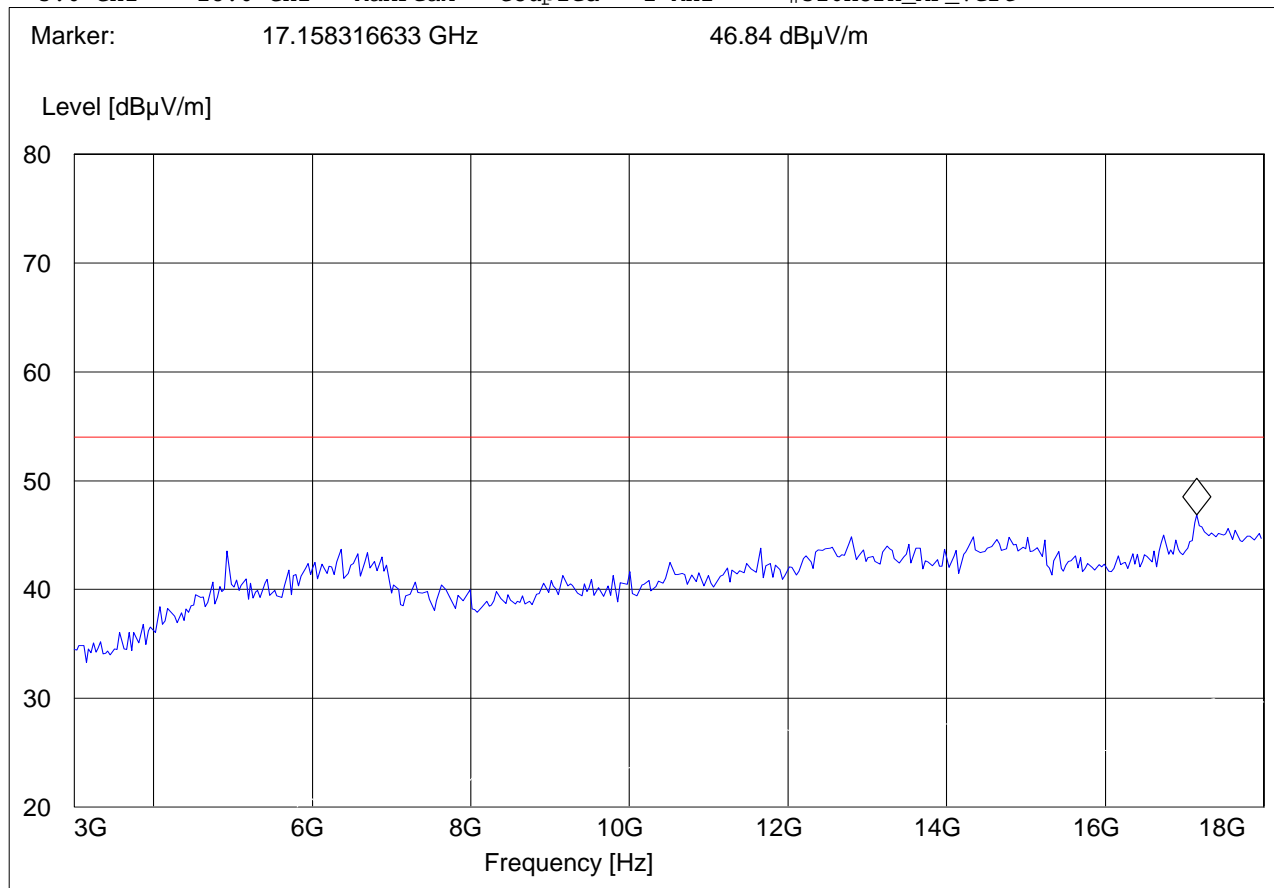
**3-18GHz (2480MHz)**

**Note: Peak Reading vs. Average limit**

EUT: PX750  
 Customer:: PSION  
 Test Mode: BT  
 ANT Orientation: V  
 EUT Orientation: V  
 Test Engineer: Chris  
 Voltage: BATTERY  
 Comments: With 2.4GHz notch filter

**SWEEP TABLE: "FCC15.247\_3-18G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
3.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert





**18-25GHz**

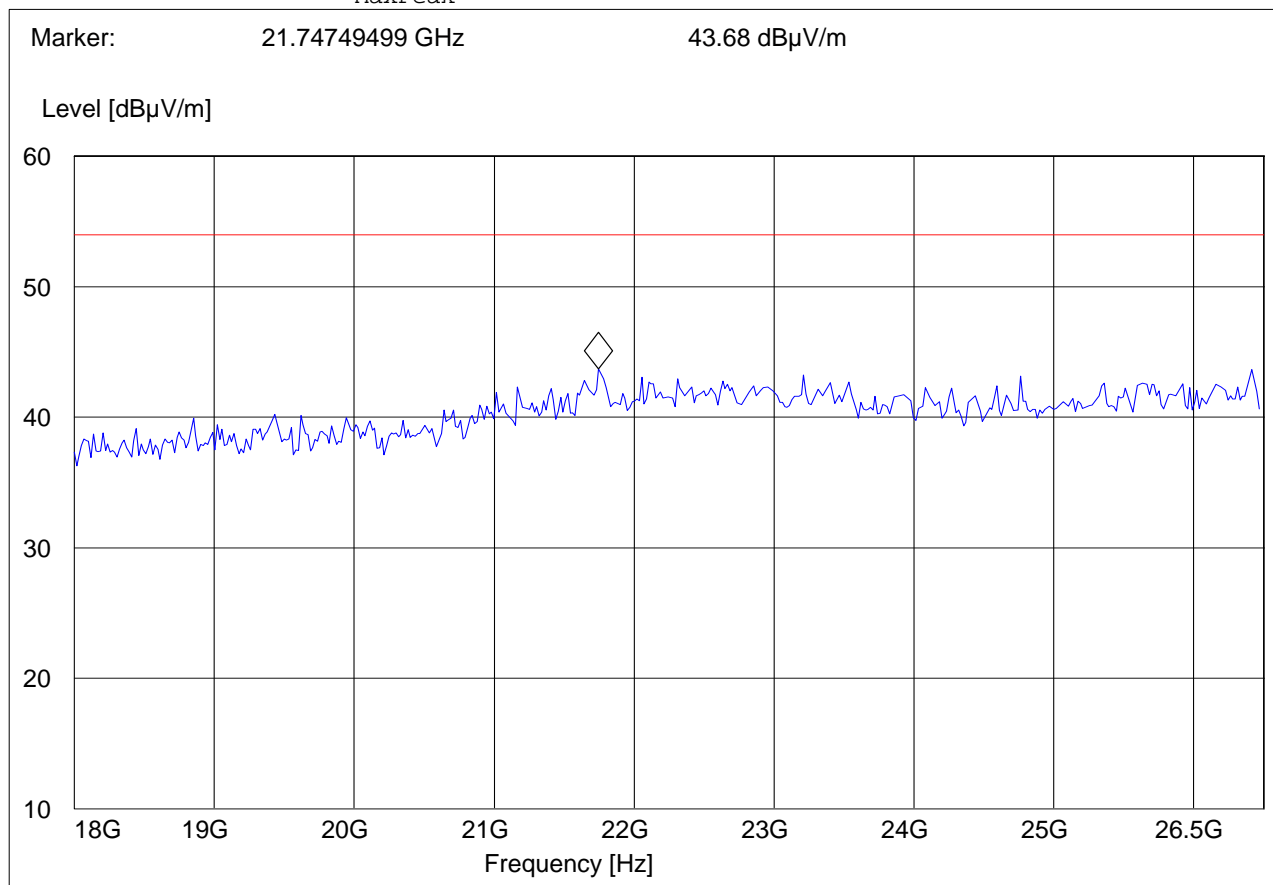
**Note: This plot is valid for low, mid, high channels (worst-case plot)**

**Note: Peak Reading vs. Average limit**

EUT: PX750  
 Customer:: PSION  
 Test Mode: BT  
 ANT Orientation: V  
 EUT Orientation: V  
 Test Engineer: Chris  
 Voltage: BATTERY  
 Comments:

**SWEEP TABLE: "FCC15.247\_18-26.5G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
18.0 GHz	26.5 GHz	MaxPeak	Coupled	100 kHz	Horn # 3116_18-40G
		MaxPeak			





## 5.4 RECEIVER SPURIOUS RADIATION RSS-Gen(4.10)

### 5.4.1 LIMITS

Frequency (MHz)	Field strength ( $\mu\text{V/m}$ )	Measurement distance (m)
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

#### **NOTE:**

1. The radiated emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges. This is the reason that the graphs show different noise levels. In the range between 3 and 25 GHz very short cable connections to the antenna was used to minimize the noise level.
2. All measurements are done in peak mode using an average limit, unless specified with the plots.





**5.4.2 Results**

30MHz – 1GHz Antenna: Vertical.

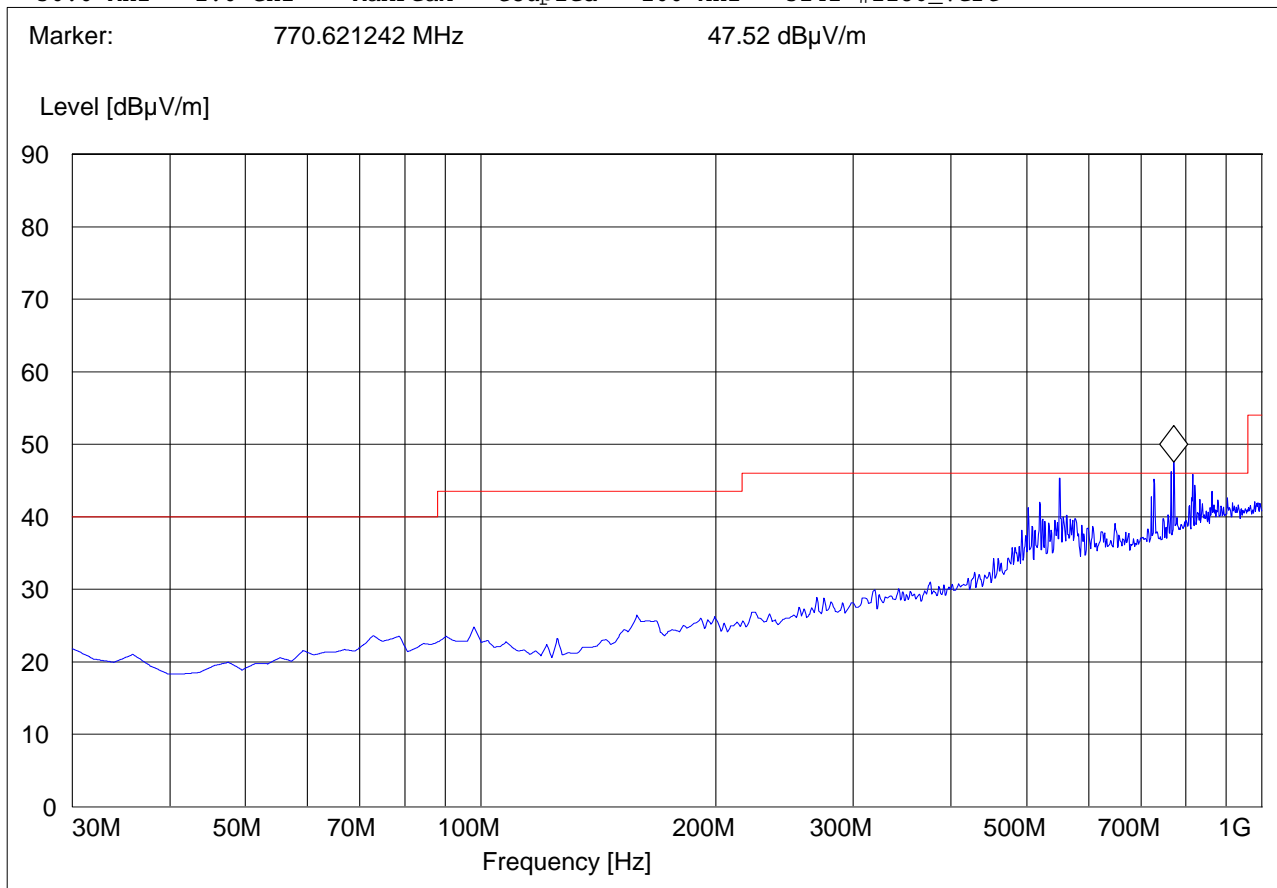
Note: This plot is valid for low, mid, high channels (worst-case plot)

Note: Peak measurement against Quasipeak limits. See below for QP measurements.

EUT: PX750  
 Customer:: PSION  
 Test Mode: RX  
 ANT Orientation: V  
 EUT Orientation: V  
 Test Engineer: Chris  
 Voltage: BATTERY  
 Comments:

**SWEEP TABLE: "FCC15.247\_30M-1G\_Ver"**

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Vert



550.961924	45.80dBuV/m	39.80dBuV/m
770.621242	47.09dBuV/m	41.79dBuV/m
815.330661	46.00dBuV/m	40.58dBuV/m



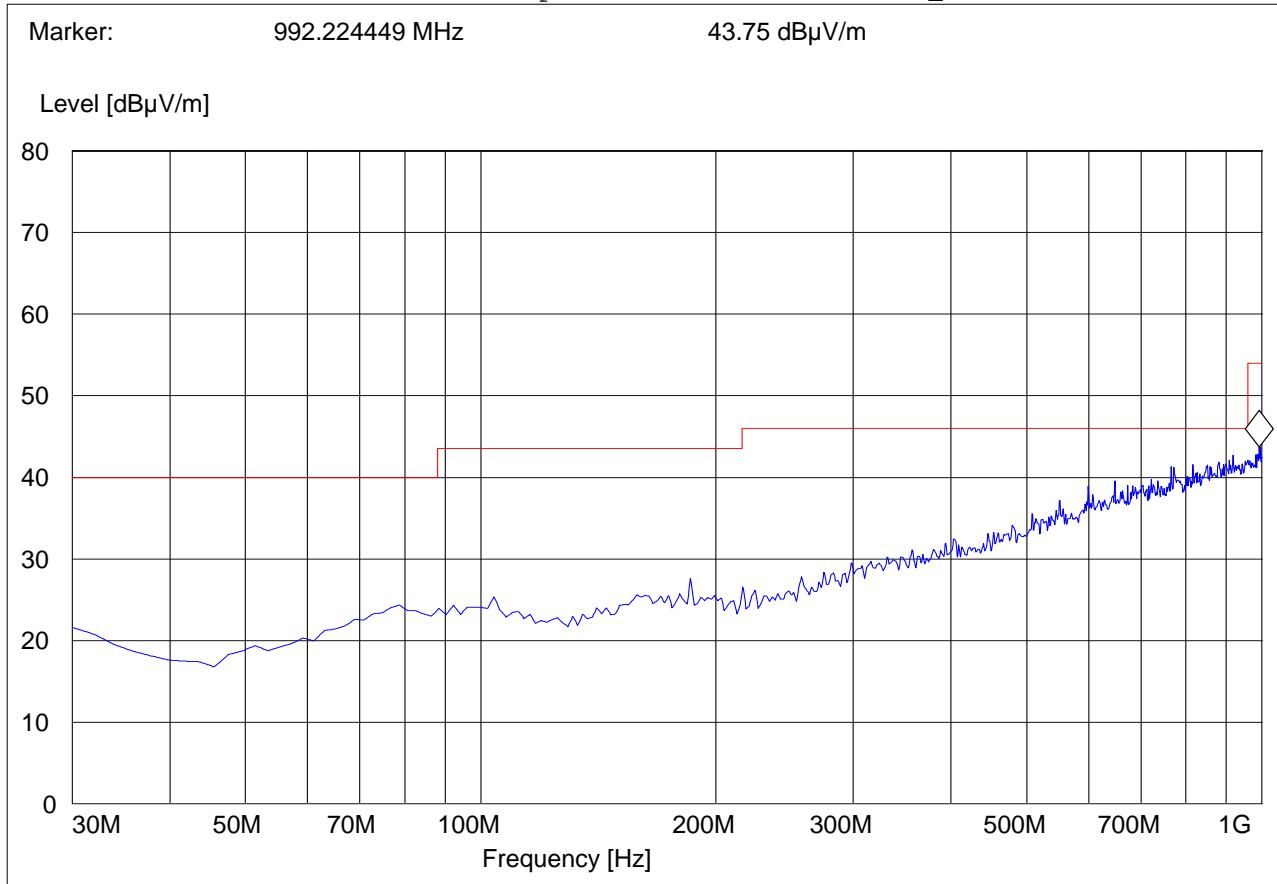
30MHz – 1GHz Antenna: horizontal.

Note: This plot is valid for low, mid, high channels (worst-case plot)

EUT: PX750  
 Customer:: PSION  
 Test Mode: RX  
 ANT Orientation: H  
 EUT Orientation: V  
 Test Engineer: Chris  
 Voltage: BATTERY  
 Comments:

**SWEEP TABLE: "FCC15.247\_30M-1G\_Hor"**

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Horz





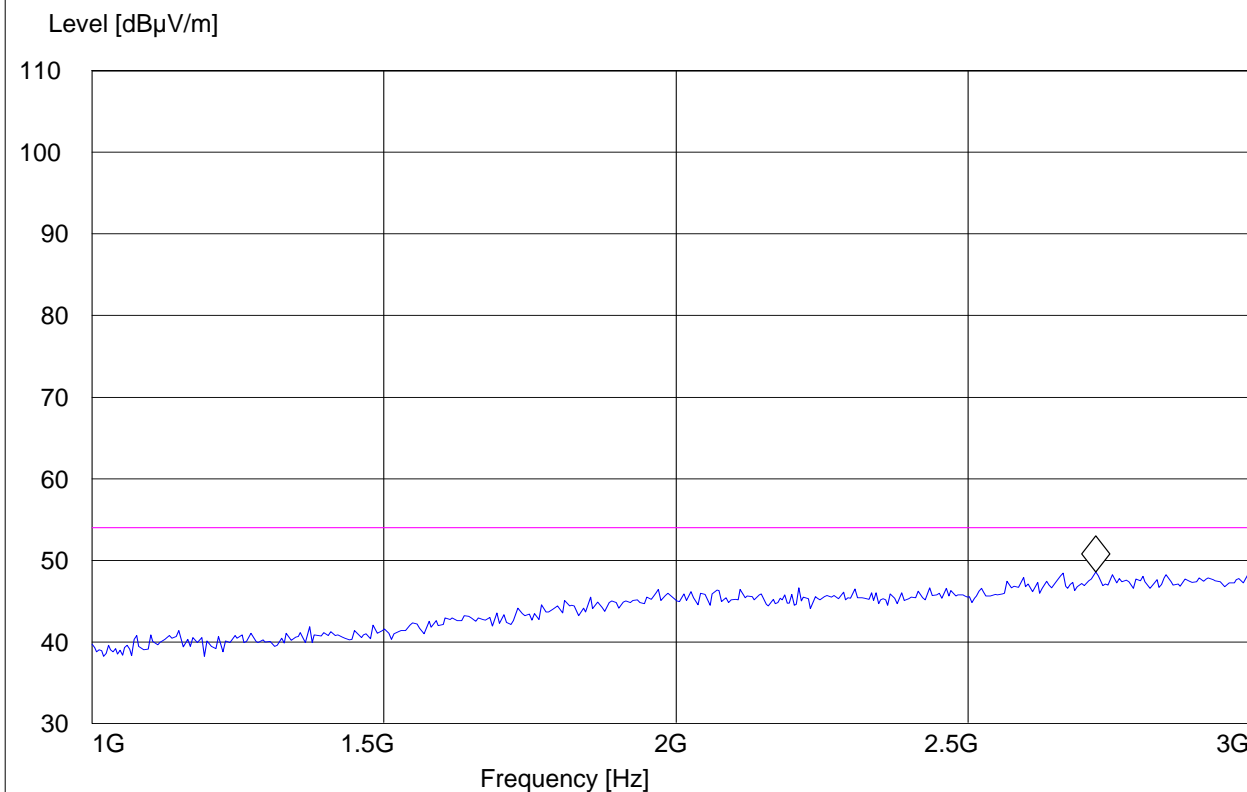
**1-3GHz**

EUT: PX750  
 Customer:: PSION  
 Test Mode: RX  
 ANT Orientation: V  
 EUT Orientation: V  
 Test Engineer: Chris  
 Voltage: BATTERY  
 Comments:

**SWEEP TABLE: "FCC15.247\_1-3G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 2.719438878 GHz 48.54 dBµV/m



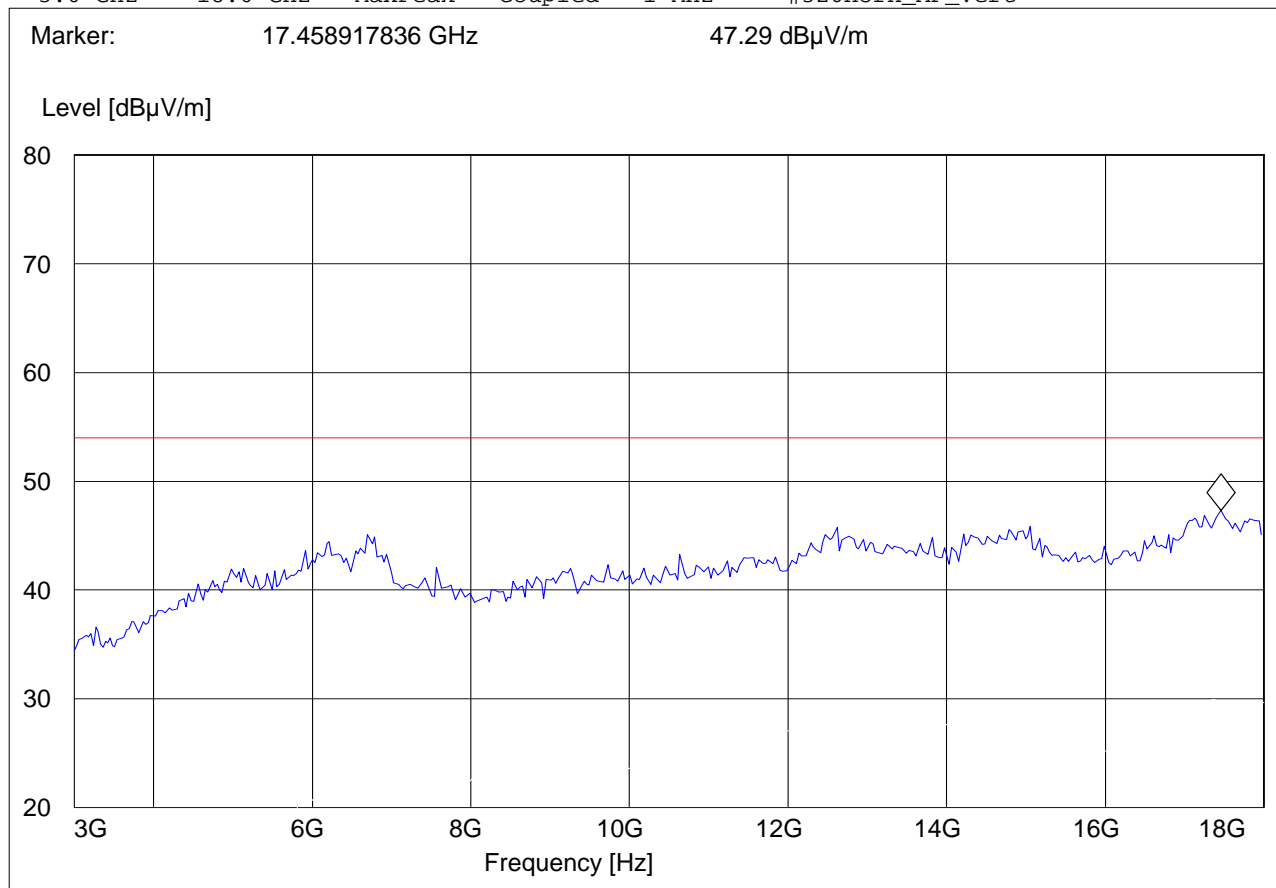


**3-18GHz**

EUT: PX750  
 Customer:: PSION  
 Test Mode: RX  
 ANT Orientation: V  
 EUT Orientation: V  
 Test Engineer: Chris  
 Voltage: BATTERY  
 Comments:

**SWEEP TABLE: "FCC15.247\_3-18G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
3.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert





**6 Measurements (CONDUCTED)**

**6.1 MAXIMUM PEAK OUTPUT POWER § 15.247 (CONDUCTED)**

**6.1.1 LIMIT SUB CLAUSE § 15.247 (b) (1)**

Frequency range	RF power output
2400-2483.5 MHz	30dBm

\*limit is based upon antenna gain of less than or equal to 6dBi.

Measurement Settings: RBW = VBW = 2MHz.

**6.1.2 RESULTS: GFSK**

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		2402 MHz	2441 MHz	2480 MHz
T <sub>nom</sub> (23)°C	V <sub>nom</sub> VDC	-0.1	0.3	0.8

**6.1.3 RESULTS:  $\pi / 4$  DQPSK**

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		2402 MHz	2441 MHz	2480 MHz
T <sub>nom</sub> (23)°C	V <sub>nom</sub> VDC	2.6	2.7	2.9

**6.1.4 RESULTS: 8DPSK**

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		2402 MHz	2441 MHz	2480 MHz
T <sub>nom</sub> (23)°C	V <sub>nom</sub> VDC	2.7	3.0	3.1



(2402 MHz) GFSK

Bluetooth Power

dB Max. Level: Auto Hopp./Chan./Freq./Packet: RX/TX single / All / All / DH5  
 +10.00 --- / Off 0: --- / Off 2: --- / Off

Current

	Current( 0 ch)	Average	Minimum	Maximum
Power Nomin. [dBm]	-0.4	-0.4	-0.4	-0.4
Leak. [dBm]	-62.9	-62.1	-65.1	-60.1
Peak [dBm]	-0.1	-0.1	-0.2	-0.1
Packet Timing [µs]	+1.00	+1.01	+0.25	+1.50
Delta Level [dB]	+0.00			

100

 Bursts  
 Statistic Count  

0.00 %

  
 Bursts out of Tol.(Pow.)  

0.00 %

  
 Bursts out of Tol.(Tim.)

Testmode Type

Hopping Scheme

RX Frequency

TX Frequency

Pattern Type

Packet Type

Length of Test Sequ.

Connect. Control

RUN

Output Power

Appli- cation

Analyzer Level

Analyzer Settings

Slave Sig. 1

Slave Sig.2

Master Sig.

Display

Marker

Menus



(2441 MHz) GFSK

Bluetooth Power

Connect. Control

dB Max. Level: Auto Hopp./Chan./Freq./Packet: RX/TX single / All / All / DH5
3: --- / Off 0: --- / Off 2: --- / Off

Current

0 500 1,000 1,500 2,000 2,500
Bit

	Current( 39 ch)	Average	Minimum	Maximum
Power Nomin. [dBm]	+ 0.0	+ 0.0	+ 0.0	+ 0.0
Leak. [dBm]	- 62.4	- 62.3	- 64.6	- 60.7
Peak [dBm]	+ 0.3	+ 0.2	+ 0.2	+ 0.3
Packet Timing [µs]	+ 0.50	+ 0.55	+ 0.50	+ 0.75
Delta Level [dB]	+ 0.37			

100 Bursts

Statistic Count  

0.00 %

Bursts out of Tol.(Pow.)  

0.00 %

Bursts out of Tol.(Tim.)

Testmode Type

Hopping Scheme

RX Frequency

TX Frequency

Pattern Type

Packet Type

Length of Test Sequ.

RUN

Output Power

Application

Analyzer Level

Analyzer Settings

Slave Sig. 1

Slave Sig. 2

Master Sig.

Display Marker

Menus



(2480 MHz) GFSK

Bluetooth Power

dB Max. Level: Auto  
 +10.00 --- / Off

Hopp./Chan./Freq./Packet: RX/TX single / All / All / DHS  
 0: --- / Off 2: --- / Off

	Current( 78 ch)	Average	Minimum	Maximum
Power Nomin. [dBm]	<b>+0.5</b>	<b>+0.5</b>	<b>+0.5</b>	<b>+0.5</b>
Leak. [dBm]	<b>-64.6</b>	<b>-62.9</b>	<b>-64.8</b>	<b>-61.0</b>
Peak [dBm]	<b>+0.8</b>	<b>+0.8</b>	<b>+0.7</b>	<b>+0.8</b>
Packet Timing [μs]	<b>+0.25</b>	<b>+0.76</b>	<b>+0.25</b>	<b>+1.50</b>
Delta Level [dB]	<b>+0.89</b>			

100 Bursts  
 Statistic Count  
 Bursts out of Tol.(Pow.) 0.00 %  
 Bursts out of Tol.(Tim.) 0.00 %

Testmode Type

Hopping Scheme

RX Frequency

TX Frequency

Pattern Type

Packet Type

Length of Test Sequ.

Connect. Control

Output Power

Application

Analyzer Level

Analyzer Settings

Slave Sig. 1

Slave Sig. 2

Master Sig.

Display Marker

Menus





(2402 MHz)  $\pi / 4$  DQPSK

**Bluetooth Power**
📶
👆

dB Max. Level: Auto Hopp./Chan./Freq./Packet: RX/TX single / All / All / 2-DH5

+10.00 3: --- / Off 0: --- / Off 2: --- / Off

Current

Bit

	Current( 0 ch)	Average	Minimum	Maximum
Power Nomin. [dBm]	-0.1	-0.1	-0.1	+0.0
Leak. [dBm]	-61.8	-62.1	-64.5	-59.9
Peak [dBm]	+2.3	+2.4	+2.3	+2.6
Packet Timing [µs]	+1.75	+1.17	+0.50	+1.75
Delta Level [dB]	+0.35			

100 Bursts

Statistic Count

0.00 %

Bursts out of Tol.(Pow.)

0.00 %

Bursts out of Tol.(Tim.)

Slave Sig. 1

Slave Sig. 2

Master Sig.

Display

Marker

Testmode Type

Hopping Scheme

RX Frequency

TX Frequency

Pattern Type

Packet Type

Length of Test Sequ.

Menus

Connect. Control

Output Power

Appli- cation

Analyzer Level

Analyzer Settings

Slave Sig. 1

Slave Sig. 2

Master Sig.

Display

Marker

Menus



(2441 MHz)  $\pi / 4$  DQPSK

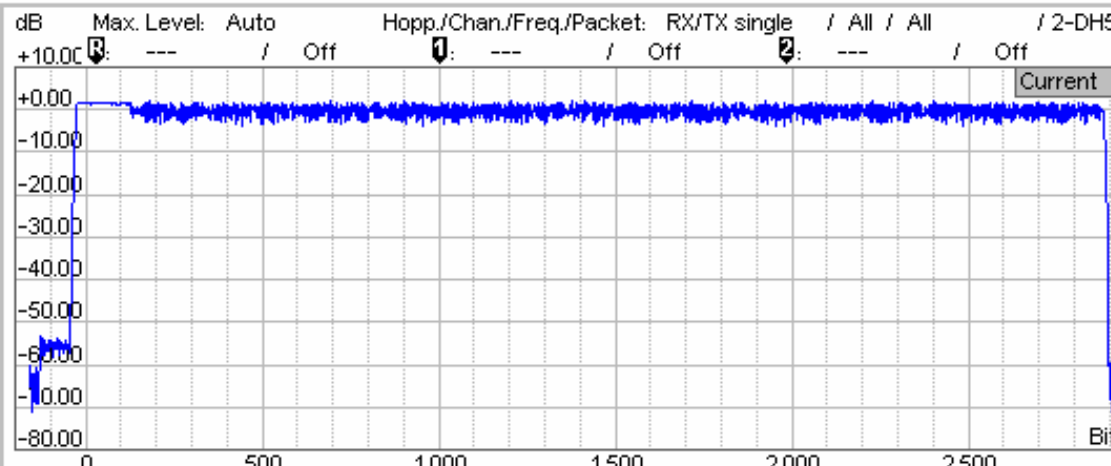
Bluetooth Power

Connect. Control

dB Max. Level: Auto
Hopp./Chan./Freq./Packet: RX/TX single / All / All / 2-DH5

+10.00 [3] --- / Off
0: --- / Off
2: --- / Off

Current



0
500
1,000
1,500
2,000
2,500
Bit

	Current( 39 ch)	Average	Minimum	Maximum
Power Nomin. [dBm]	+0.0	+0.0	+0.0	+0.0
Leak. [dBm]	-63.3	-62.5	-64.5	-60.6
Peak [dBm]	+2.6	+2.6	+2.4	+2.7
Packet Timing [µs]	+0.75	+0.89	+0.50	+1.50
Delta Level [dB]	+0.41			

100 Bursts

Statistic Count

0.00 %

Bursts out of Tol.(Pow.)

0.00 %

Bursts out of Tol.(Tim.)

Testmode Type

Hopping Scheme

RX Frequency

TX Frequency

Pattern Type

Packet Type

Length of Test Sequ.

RUN

Output Power

Appli- cation

Analyzer Level

Analyzer Settings

Slave Sig. 1

Slave Sig. 2

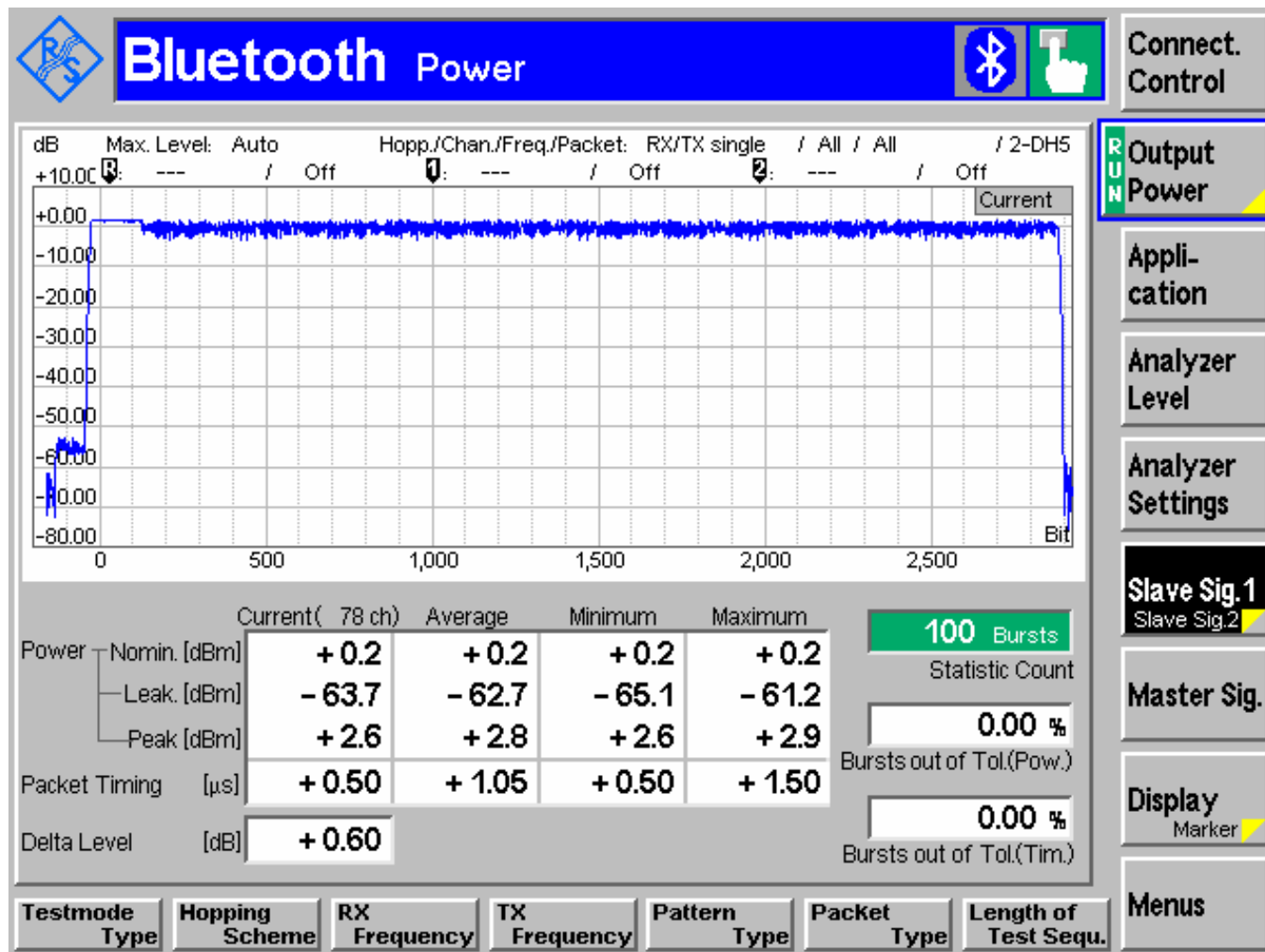
Master Sig.

Display Marker

Menus

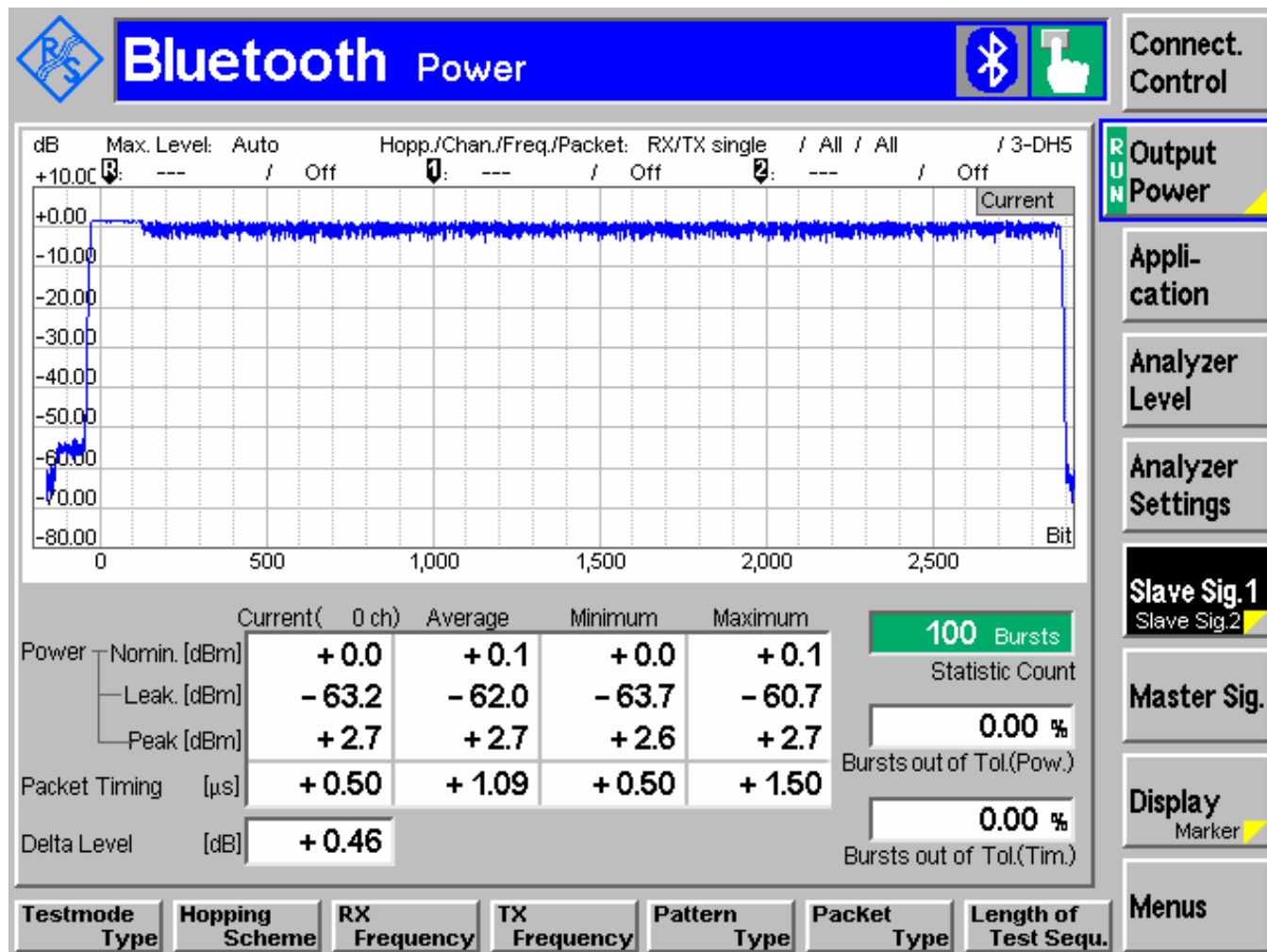


(2480 MHz)  $\pi / 4$  DQPSK



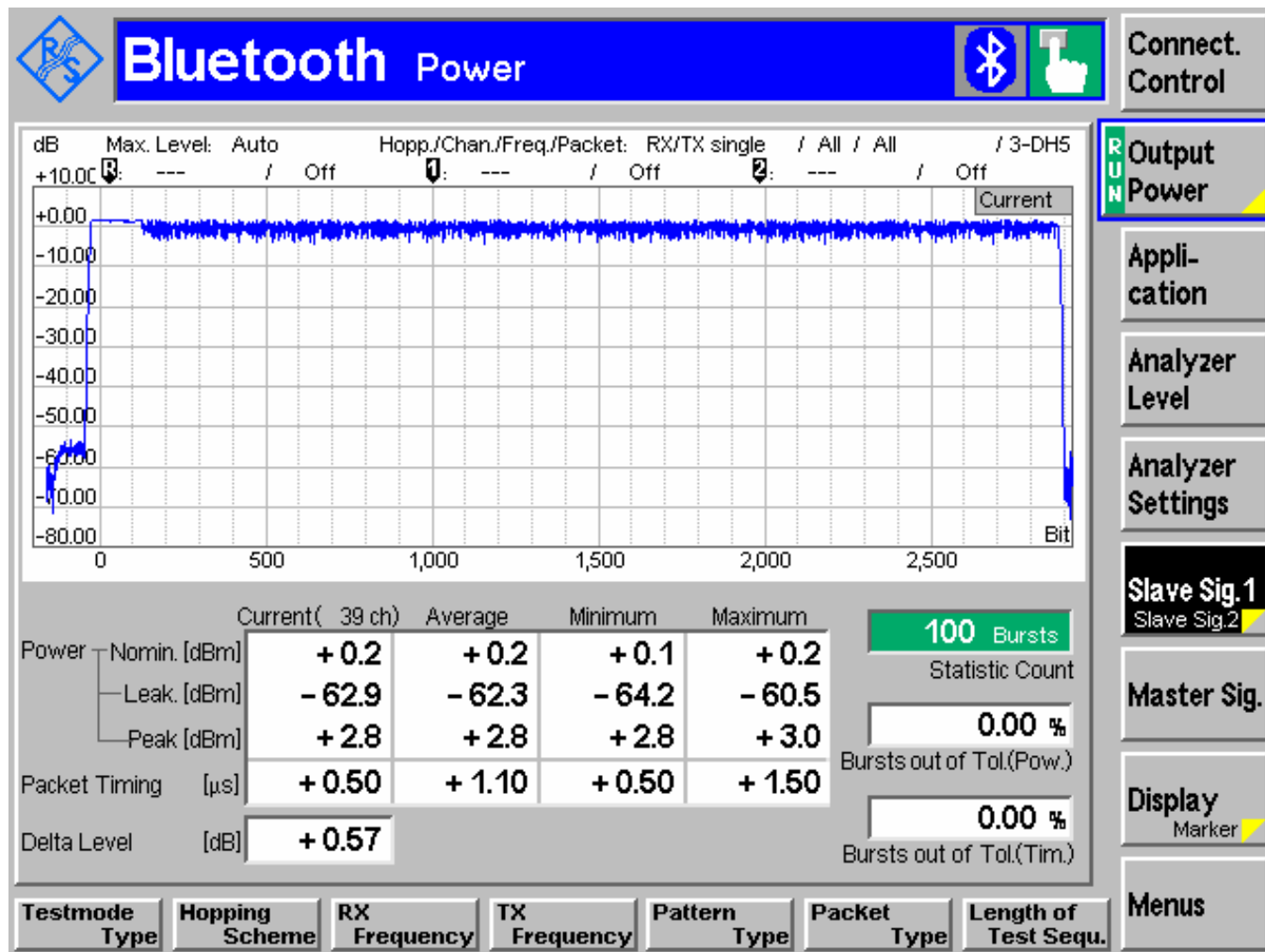


(2402 MHz) 8DPSK



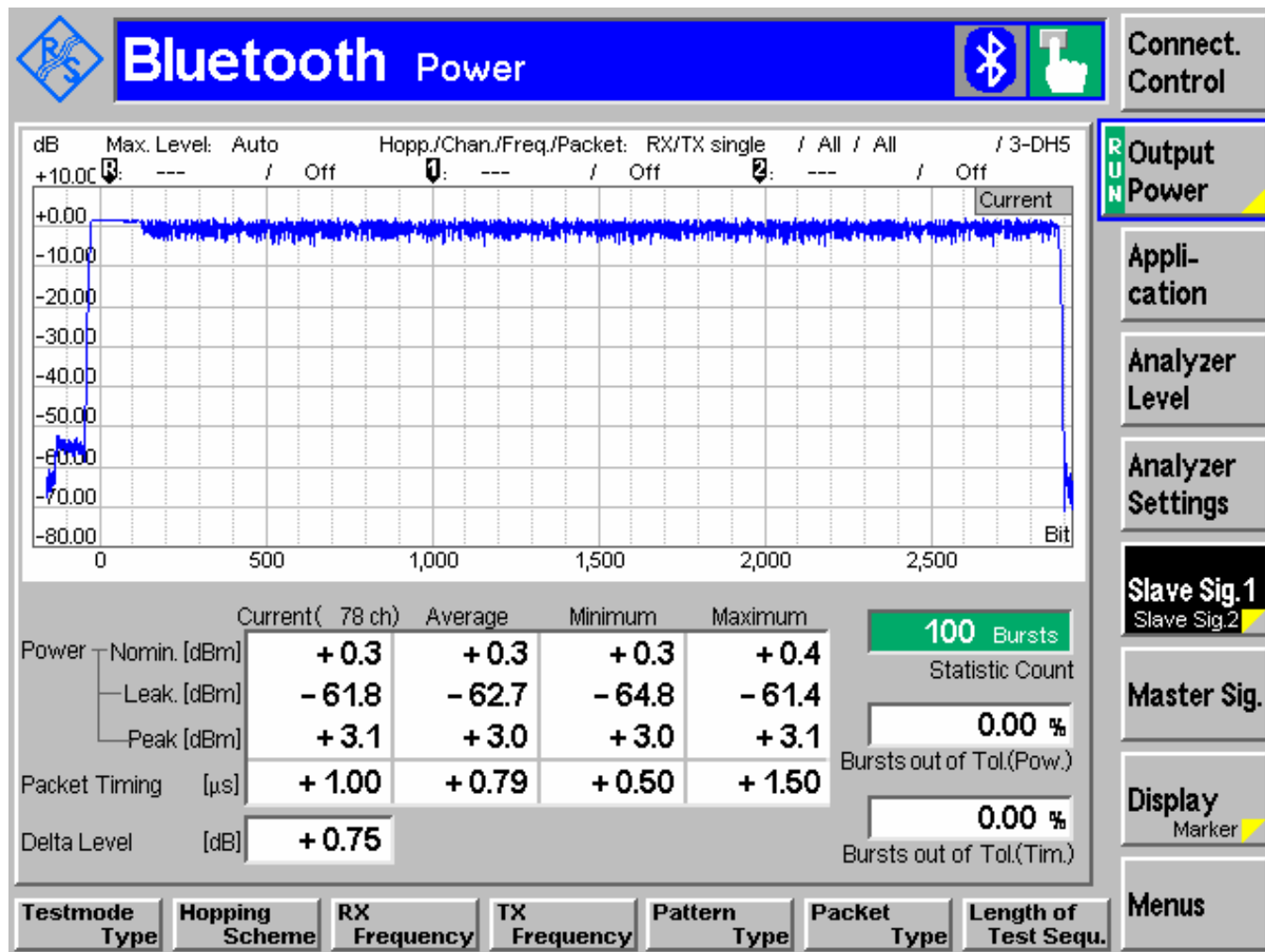


(2441 MHz) 8DPSK





(2480 MHz) 8DPSK





**6.2 20dB BANDWIDTH**

**6.2.1 LIMIT SUB CLAUSE § 15.247 (a) (1) (i) (ii) (iii)**

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.

**6.2.2 RESULTS: GFSK**

**GFSK**

Channel No.	Frequency (MHz)	20dB BW (kHz)	Result (Fail/Pass)
0	2402	874	PASS
39	2441	878	PASS
78	2480	878	PASS

**Pi/4 DQPSK (If EDR supported)**

Channel No.	Frequency (MHz)	20dB BW (kHz)	Result (Fail/Pass)
0	2402	1174	PASS
39	2441	1174	PASS
78	2480	1174	PASS

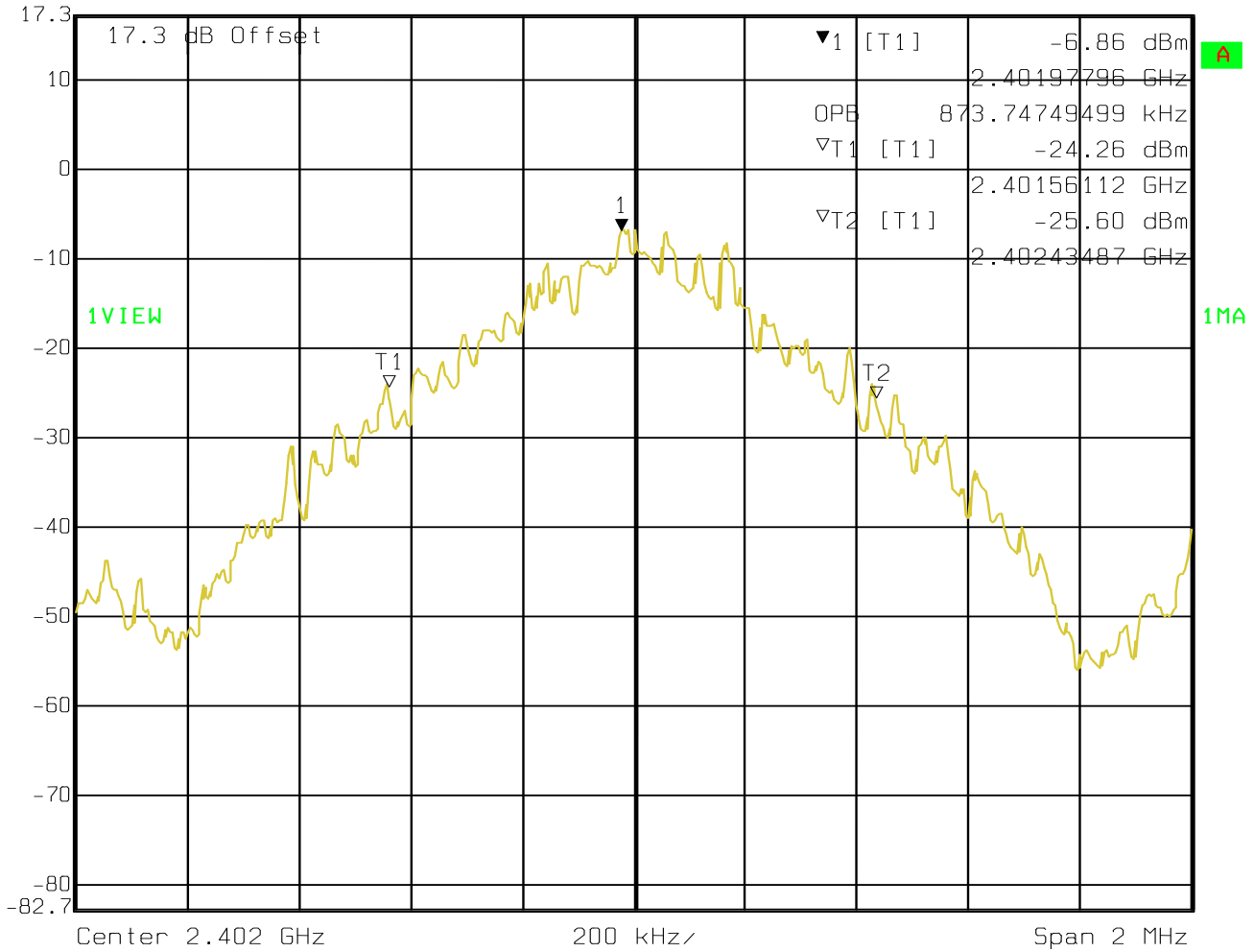
**8DPSK (If EDR supported)**

Channel No.	Frequency (MHz)	20dB BW (kHz)	Result (Fail/Pass)
0	2402	1194	PASS
39	2441	1190	PASS
78	2480	1190	PASS



(2402 MHz) GFSK

⚠ Marker 1 [T1] RBW 10 kHz RF Att 10 dB  
 Ref Lvl 17.3 dBm -6.86 dBm VBW 10 kHz  
 Unit dBm 2.40197796 GHz SWT 50 ms



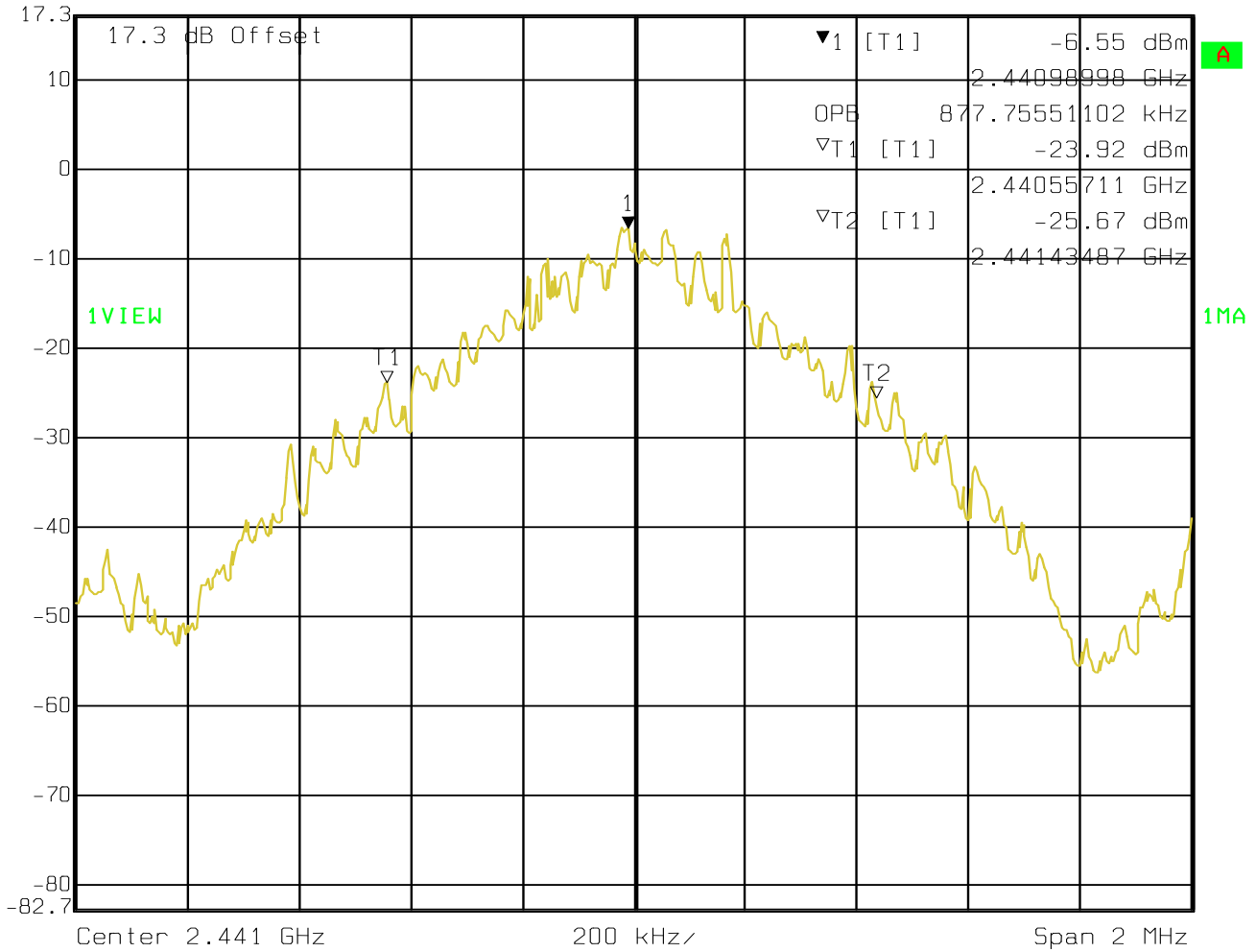
Date: 12.JUN.2008 10:52:33





(2441 MHz) GFSK

⚠ Marker 1 [T1] RBW 10 kHz RF Att 10 dB  
 Ref Lvl 17.3 dBm -6.55 dBm VBW 10 kHz  
 2.44098998 GHz SWT 50 ms Unit dBm

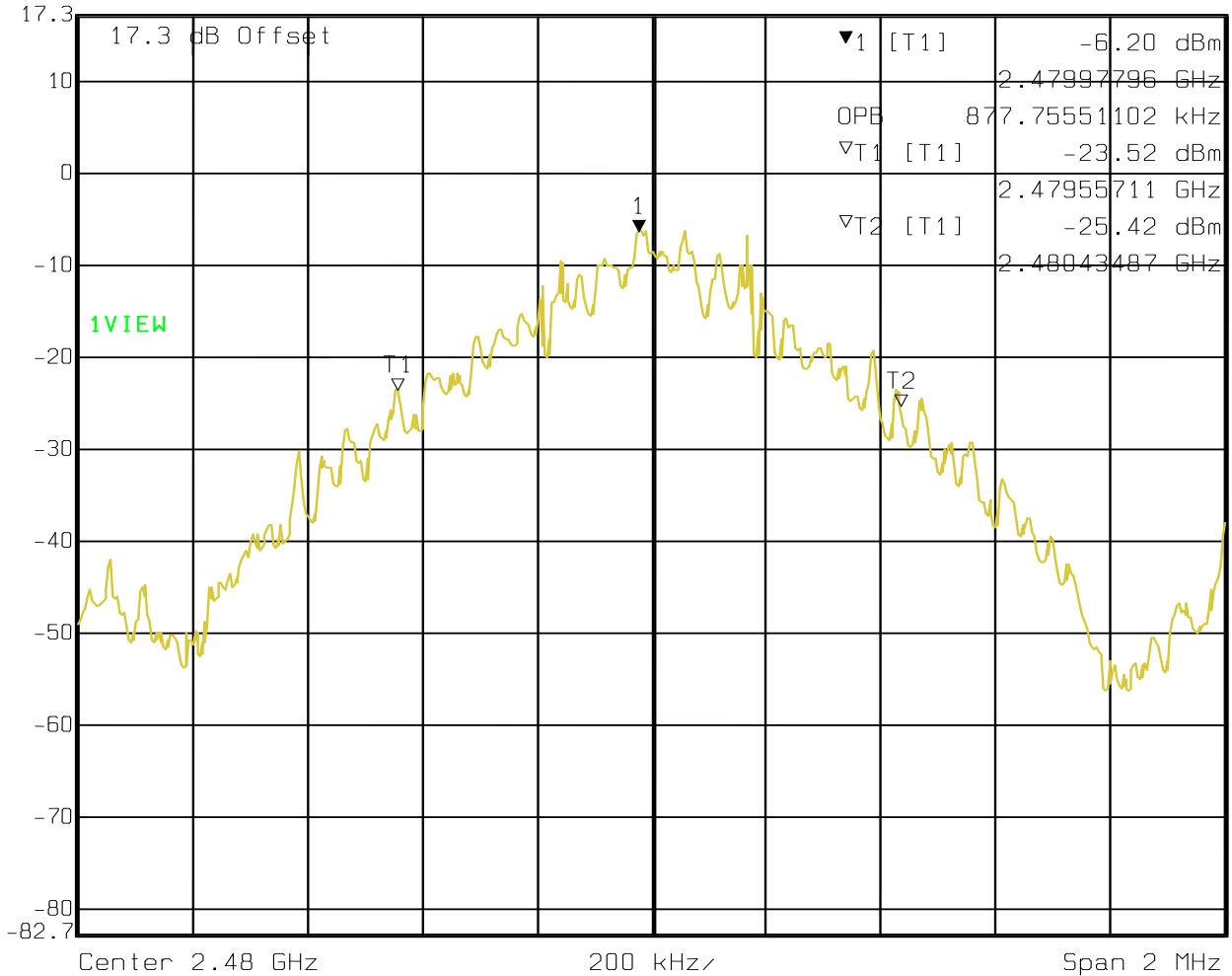


Date: 12.JUN.2008 10:58:05



(2480 MHz) GFSK

◆ R/S      Marker 1 [T1]      RBW 10 kHz      RF Att 10 dB  
 Ref Lvl 17.3 dBm      -6.20 dBm      VBW 10 kHz  
 2.47997796 GHz      SWT 50 ms      Unit dBm

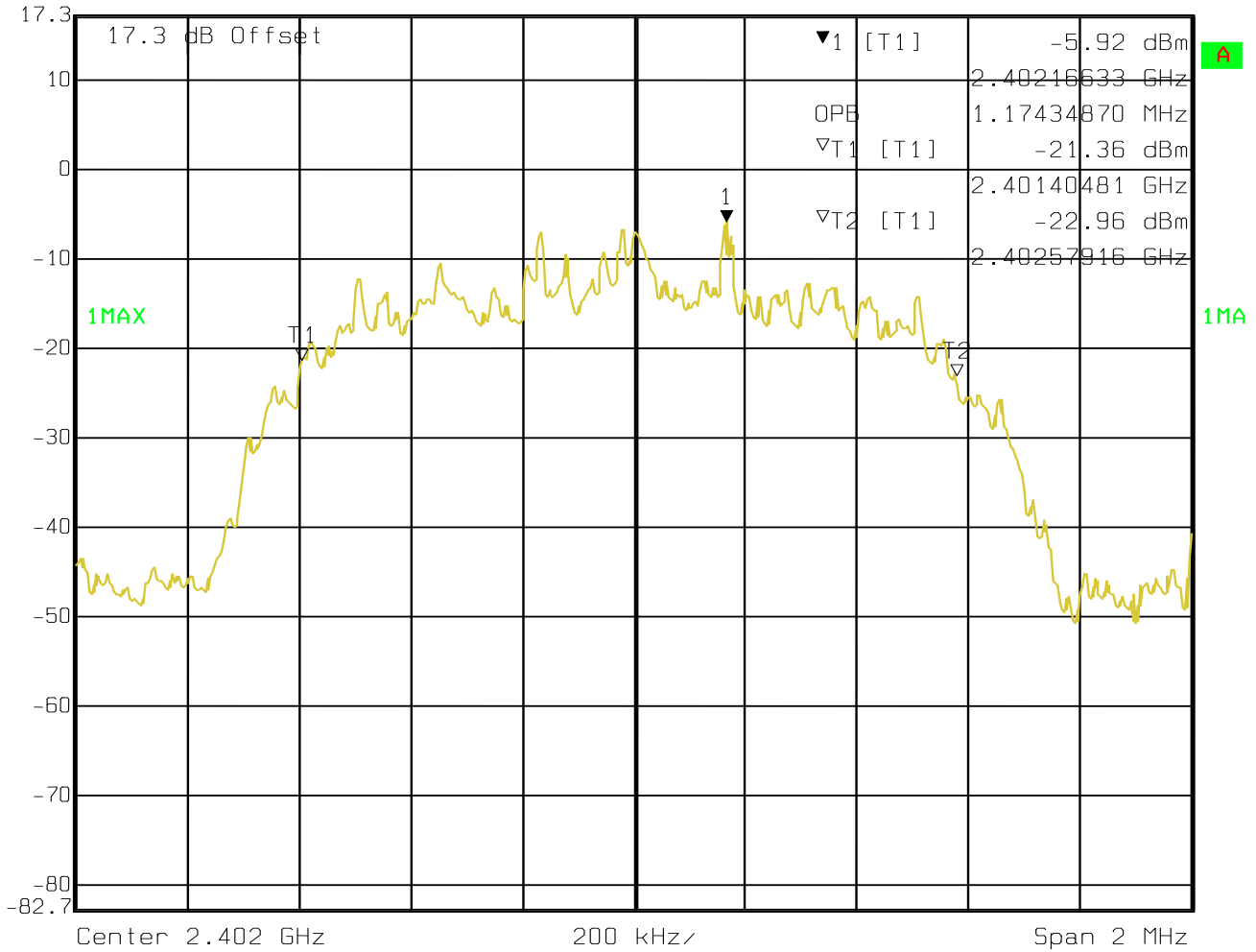


Date: 12.JUN.2008 10:59:00



(2402 MHz)  $\pi / 4$  DQPSK


 Marker 1 [T1] RBW 10 kHz RF Att 10 dB  
 Ref Lvl -5.92 dBm VBW 10 kHz  
 17.3 dBm 2.40216633 GHz SWT 50 ms Unit dBm

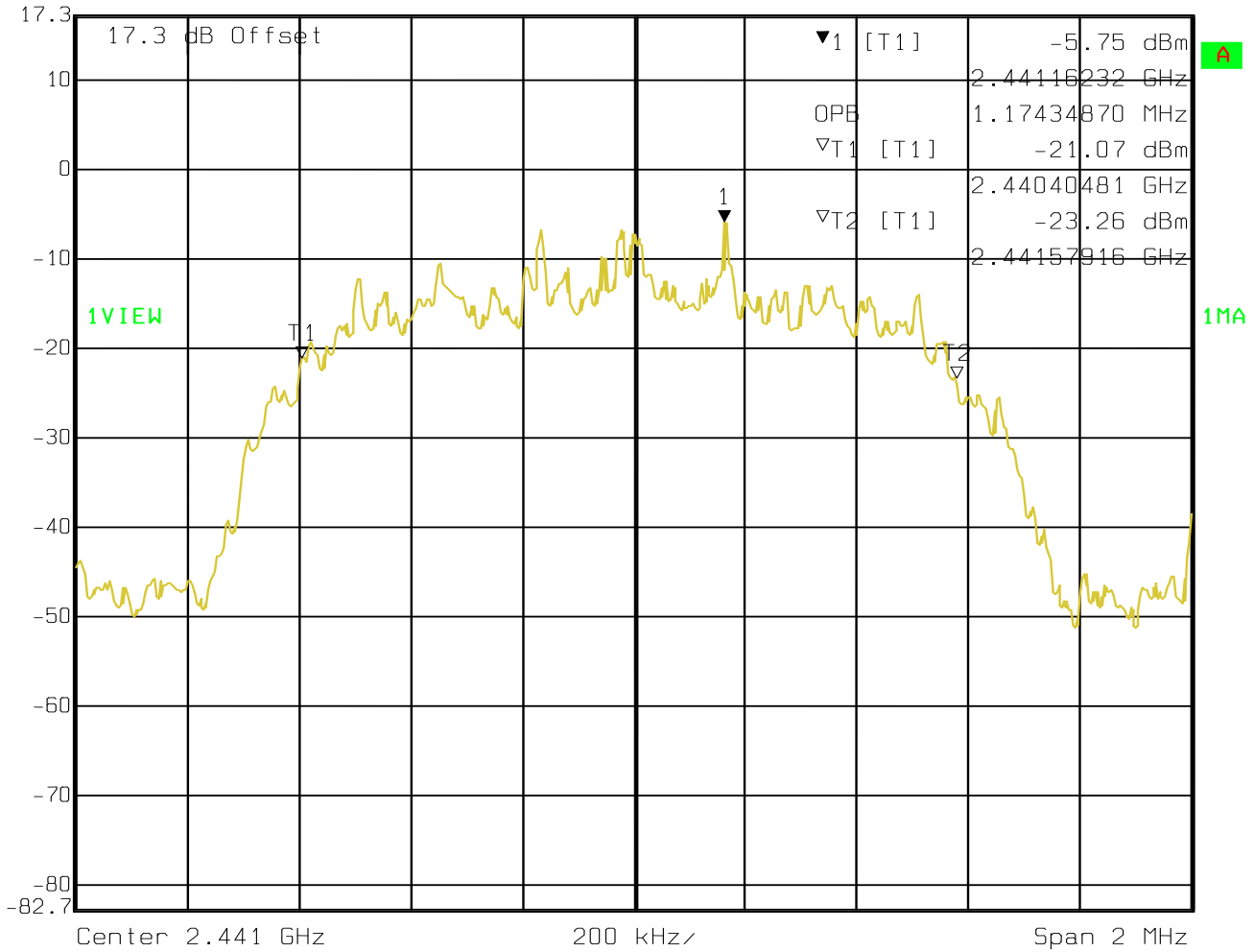


Date: 12.JUN.2008 10:53:59



(2441 MHz)  $\pi / 4$  DQPSK


 Marker 1 [T1] RBW 10 kHz RF Att 10 dB  
 Ref Lvl -5.75 dBm VBW 10 kHz  
 17.3 dBm 2.44116232 GHz SWT 50 ms Unit dBm

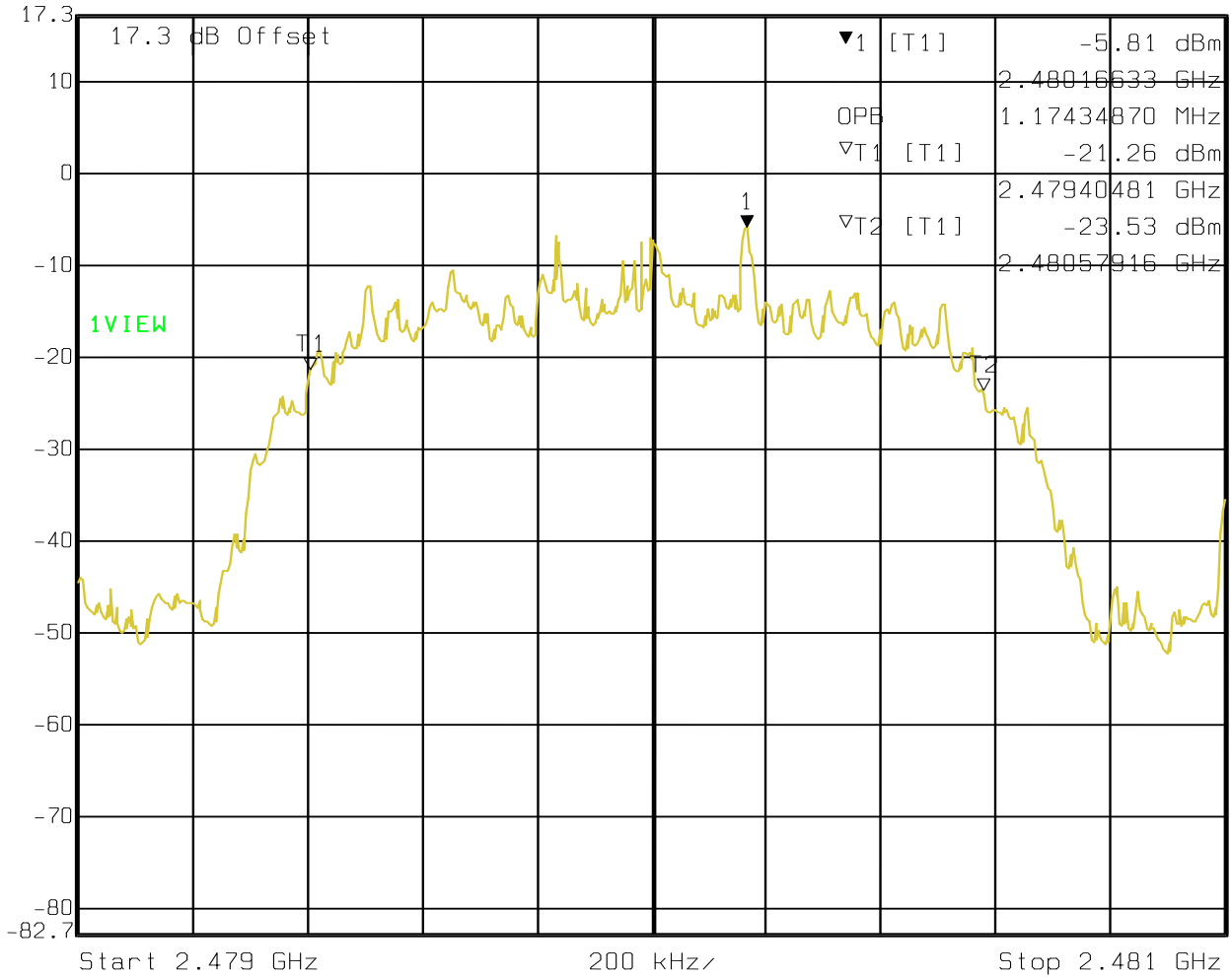


Date: 12.JUN.2008 10:57:28



(2480 MHz)  $\pi / 4$  DQPSK

◆ Marker 1 [T1] RBW 10 kHz RF Att 10 dB  
 Ref Lvl 17.3 dBm -5.81 dBm VBW 10 kHz  
 2.48016633 GHz SWT 50 ms Unit dBm

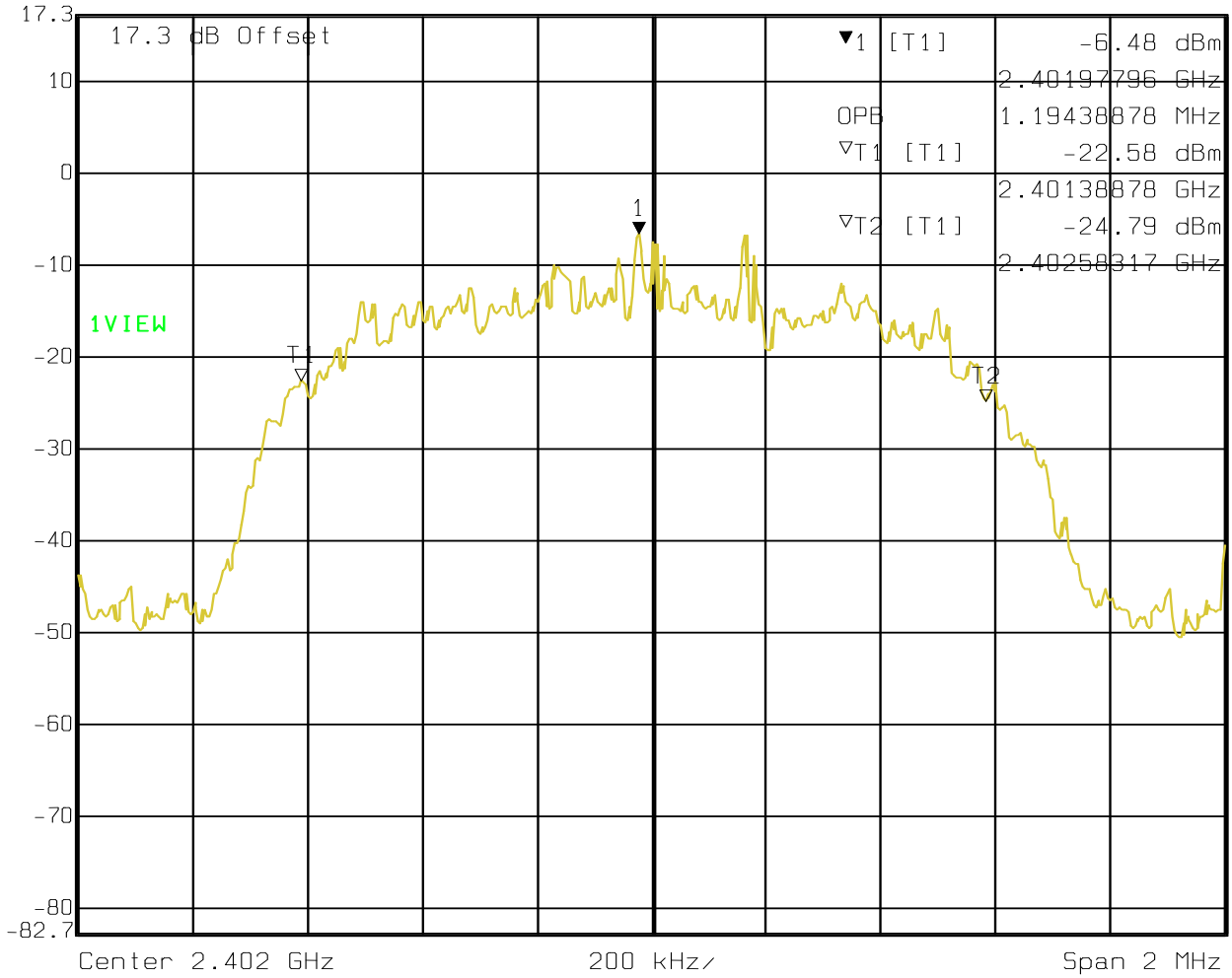


Date: 12.JUN.2008 10:59:50



**(2402 MHz) 8DPSK**

◆ R/S      Marker 1 [T1]      RBW 10 kHz      RF Att 10 dB  
 Ref Lvl 17.3 dBm      -6.48 dBm      VBW 10 kHz  
 2.40197796 GHz      SWT 50 ms      Unit dBm

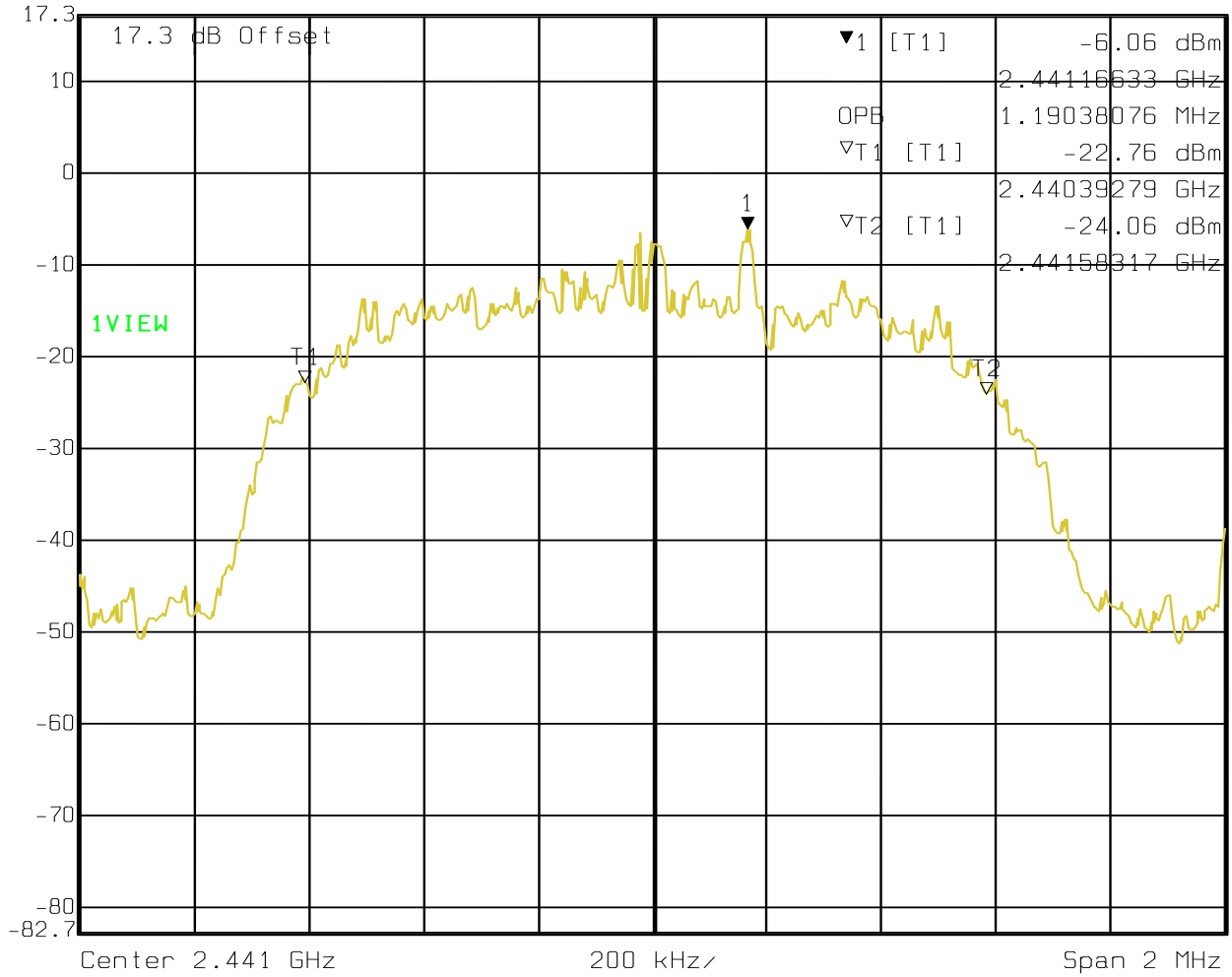


Date: 12.JUN.2008 10:54:50



**(2441 MHz) 8DPSK**

◆ R/S      Marker 1 [T1]      RBW 10 kHz      RF Att 10 dB  
 Ref Lvl 17.3 dBm      -6.06 dBm      VBW 10 kHz  
 2.44116633 GHz      SWT 50 ms      Unit dBm

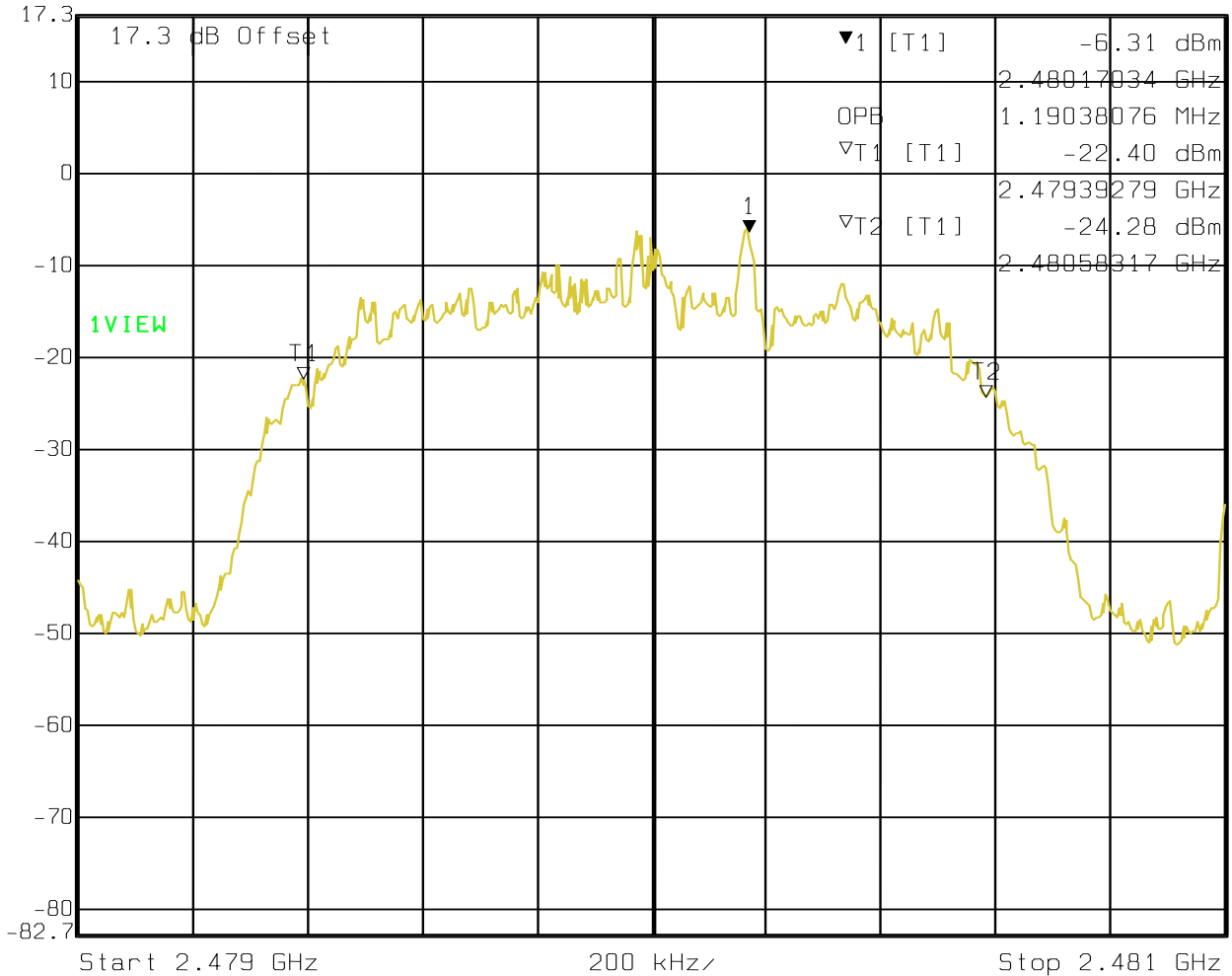


Date: 12.JUN.2008 10:55:50



**(2480 MHz) 8DPSK**

◆ R/S      Marker 1 [T1]      RBW 10 kHz      RF Att 10 dB  
 Ref Lvl 17.3 dBm      -6.31 dBm      VBW 10 kHz  
 2.48017034 GHz      SWT 50 ms      Unit dBm



Date: 12.JUN.2008 11:00:33





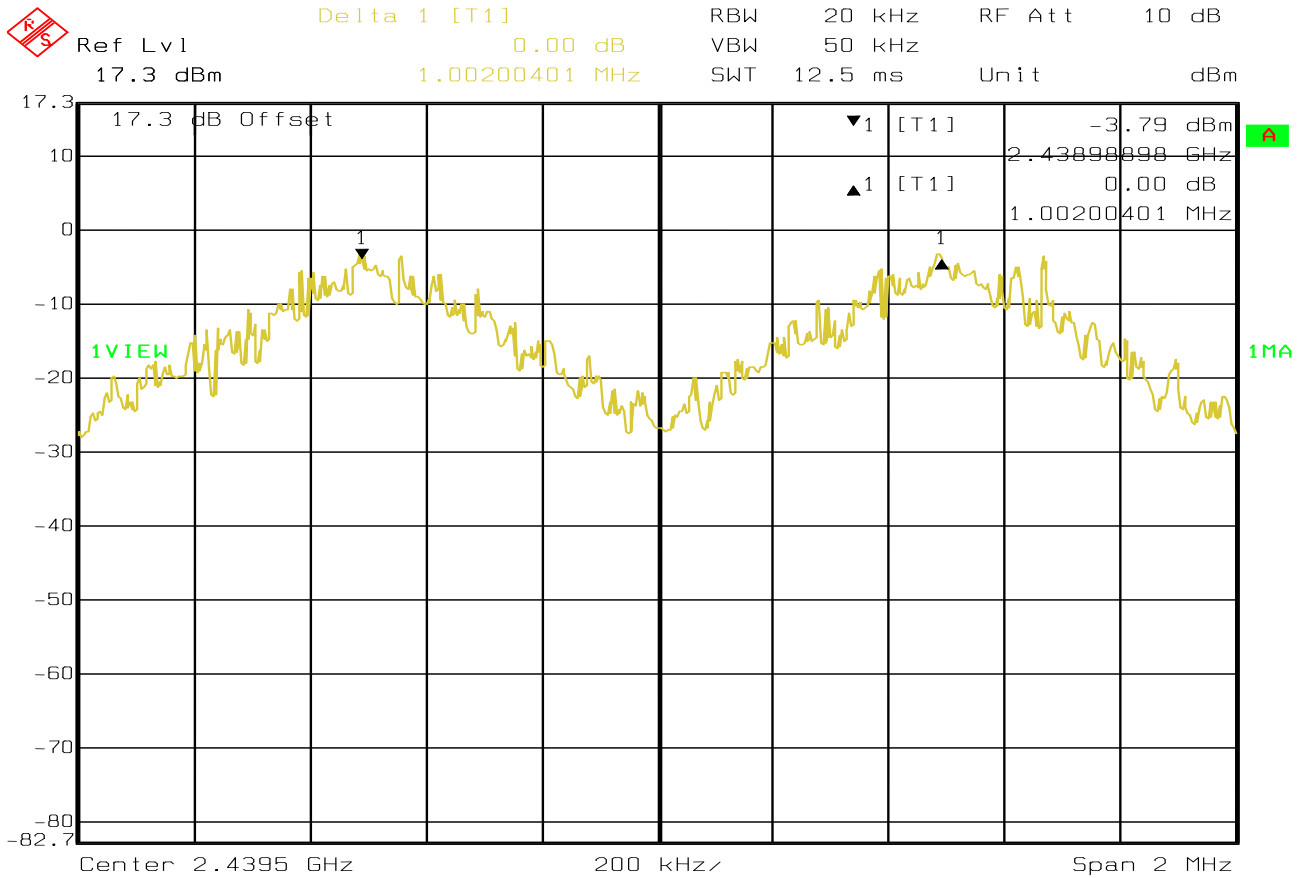
### 6.3 CARRIER FREQUENCY SEPARATION

#### 6.3.1 LIMIT SUB CLAUSE § 15.247 (a) (1) (i) (ii) (iii)

<b>SEPARATION</b>
<b>&gt; 25 KHz or &gt; 20 dB BANDWIDTH</b>

#### 6.3.2 RESULTS:

TEST CONDITIONS		SEPARATION (MHz)
<b>T<sub>nom</sub>(23)°C</b>	<b>V<sub>nom</sub>VDC</b>	<b>1.002</b>



Date: 12.JUN.2008 11:26:38



#### 6.4 NUMBER OF HOPPING CHANNELS

##### 6.4.1 LIMIT SUB CLAUSE § 15.247 (a) (1) (iii)

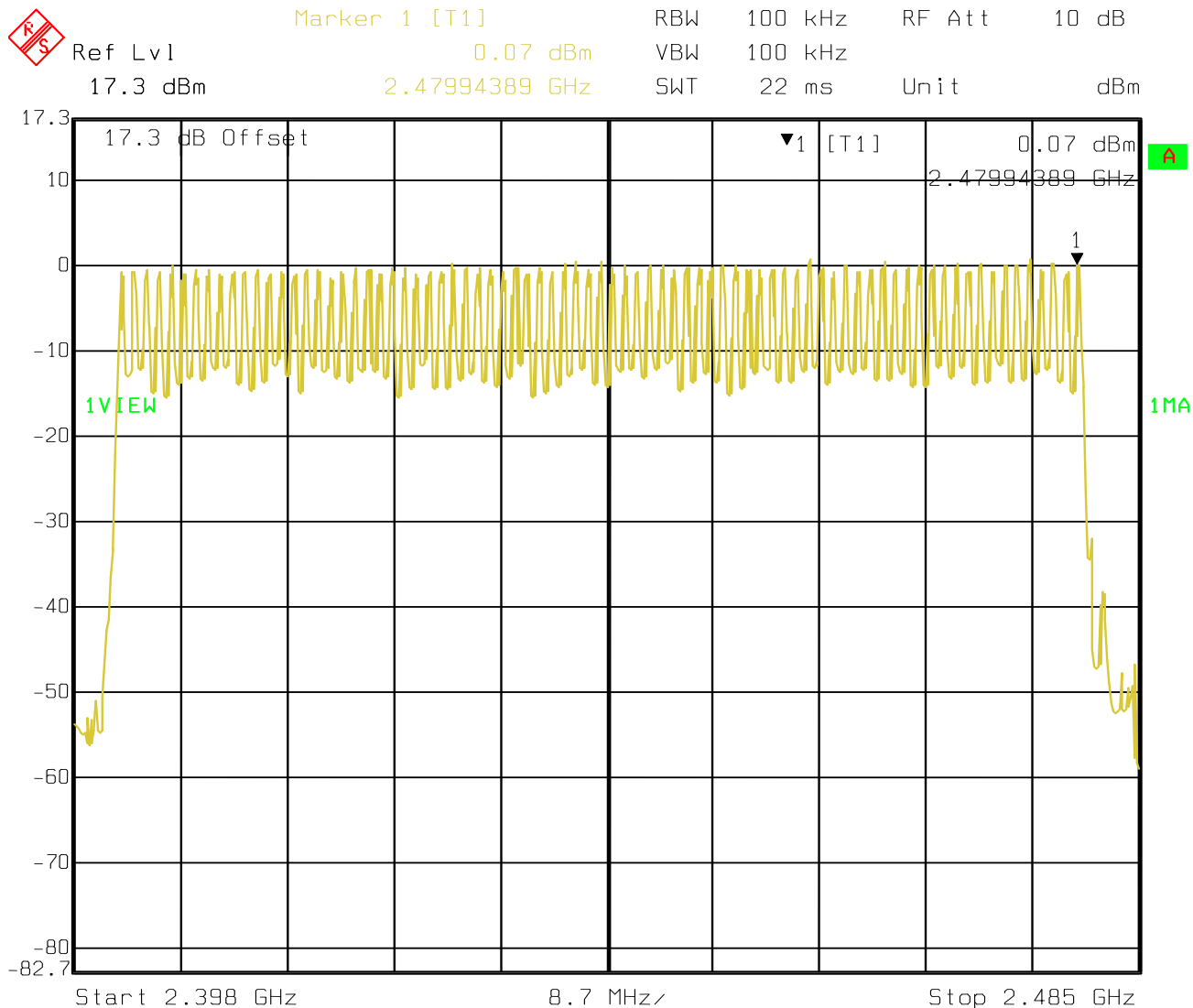
<b>NUMBER OF CHANNELS</b>
<b>&gt; 15</b>

##### 6.4.2 RESULTS:

<b>TEST CONDITIONS</b>		<b>NUMBER OF CHANNELS</b>
<b>T<sub>nom</sub>(23)°C</b>	<b>V<sub>nom</sub>VDC</b>	<b>79</b>



### Number of Hopping Channels



Date: 12.JUN.2008 11:23:14



**6.5 TIME OF OCCUPANCY (DWELL TIME)**

**6.5.1 LIMIT SUB CLAUSE § 15.247 (a) (1) (i) (ii) (iii)**

FREQUENCY RANGE	AVERAGE TIME OF OCCUPANCY PER 31.6 SECONDS (LIMIT)
2400-2483.5	< 0.4 Seconds

**6.5.2 RESULTS:**

$T_{nom}(23)^{\circ}C$	$V_{nom}VDC$
------------------------	--------------

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

**This is the same for all BT devices and therefore all BT devices satisfy FCC requirement on time of occupancy (dwell time).**



**6.6 CONDUCTED SPURIOUS EMISSION**

**6.6.1 LIMIT SUB CLAUSE § 15.247 (d)**

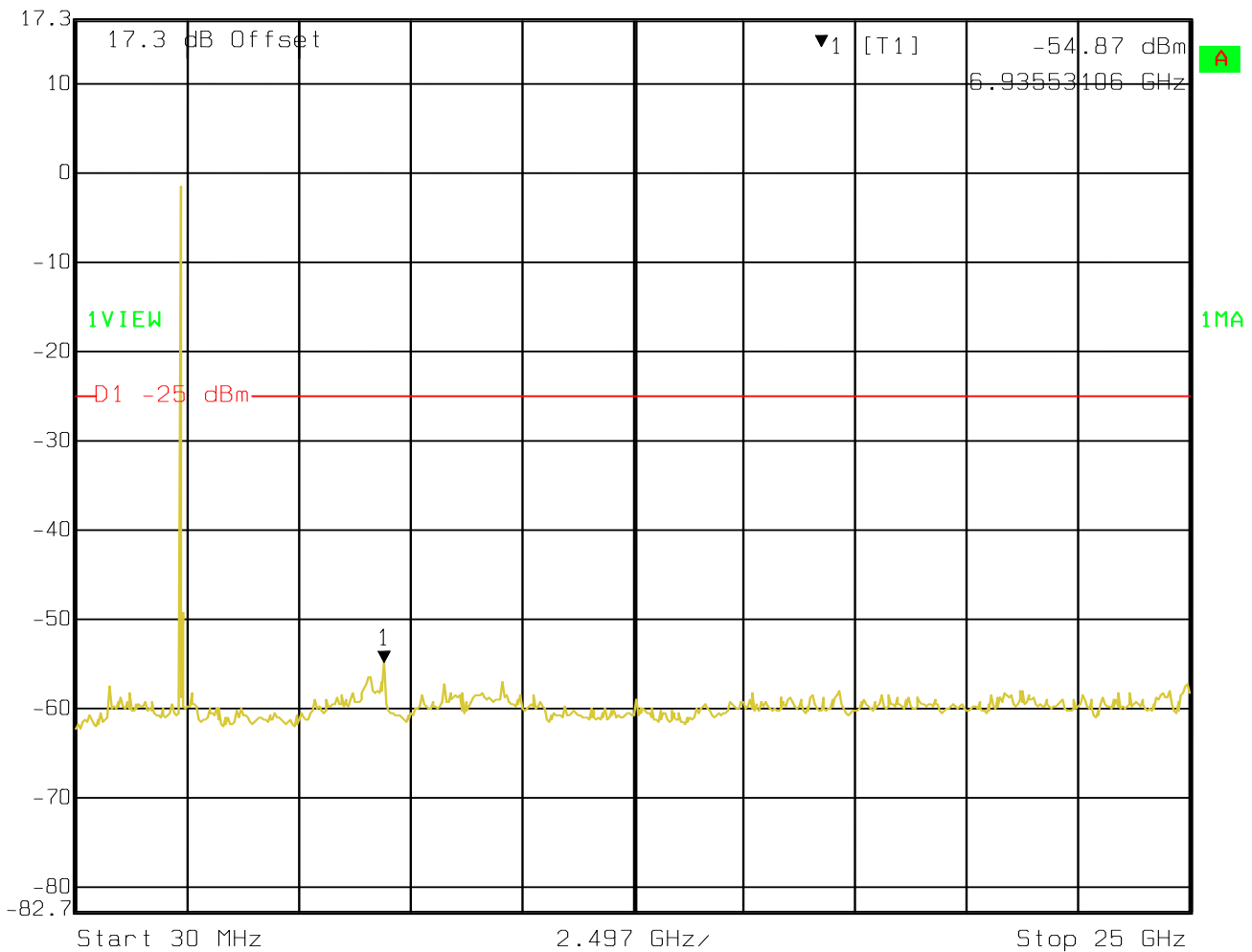
FREQUENCY RANGE	limit
30M-25GHz	-20dBc

**6.6.2 RESULTS: Tnom(23)°C VnomVDC**

Plot shows worse case emission for all modulations on each channel.

(2402MHz)


 Marker 1 [T1] RBW 100 kHz RF Att 10 dB  
 Ref Lvl -54.87 dBm VBW 300 kHz  
 17.3 dBm 6.93553106 GHz SWT 6.4 s Unit dBm

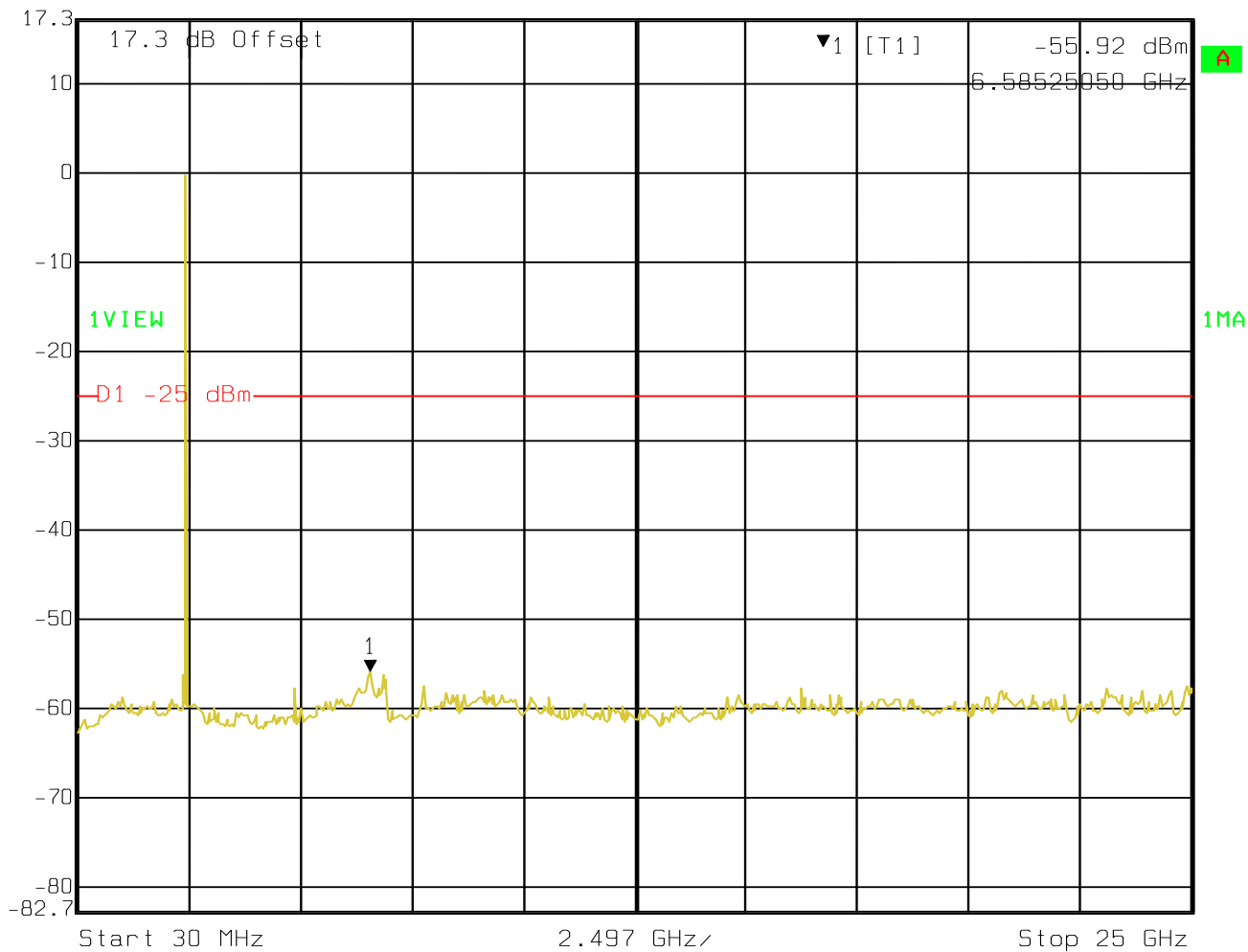


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(2441MHz)


 Marker 1 [T1] RBW 100 kHz RF Att 10 dB  
 Ref Lvl -55.92 dBm VBW 300 kHz  
 17.3 dBm 6.58525050 GHz SWT 6.4 s Unit dBm

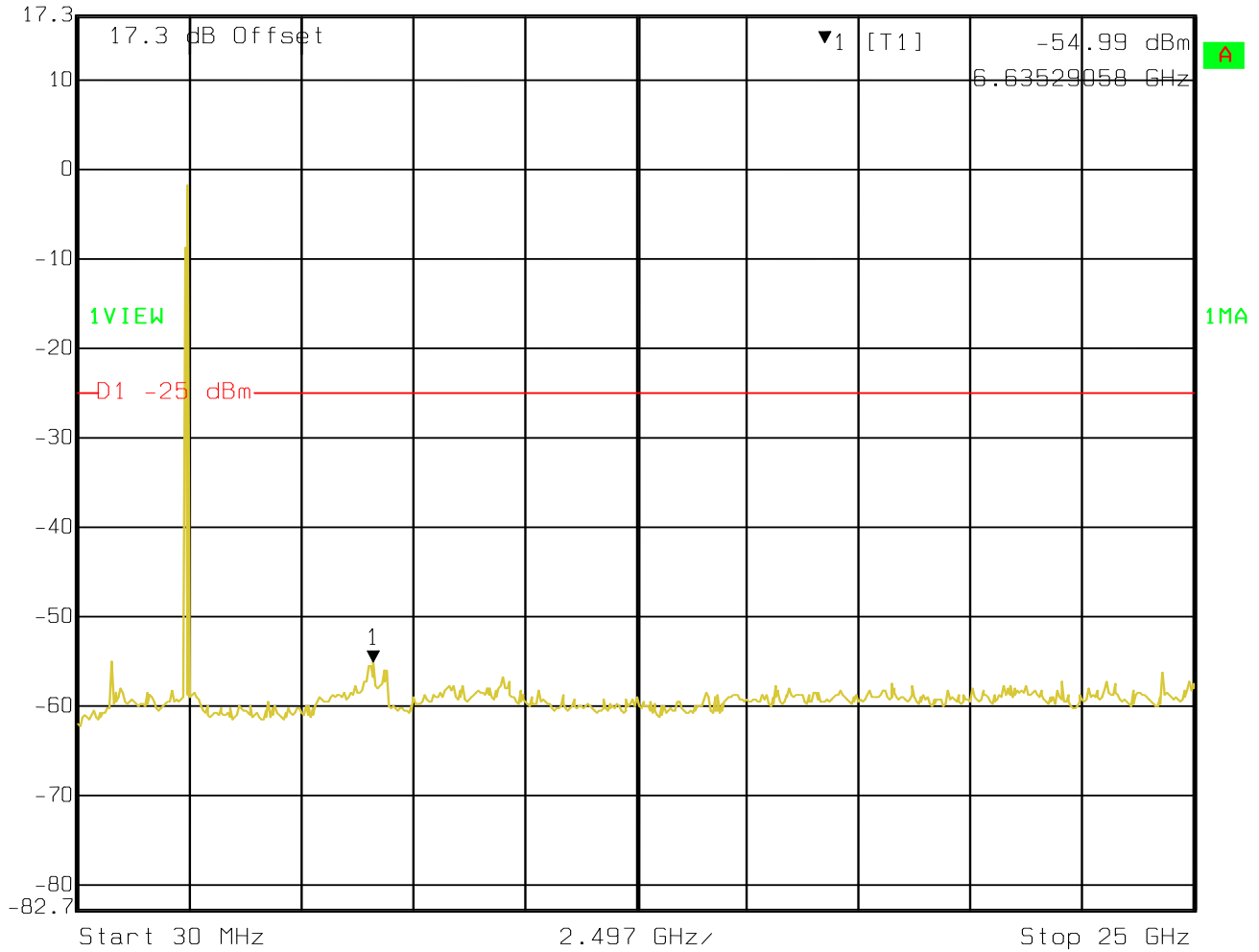


Date: 12.JUN.2008 11:04:58



(2480MHz)

 Marker 1 [T1] RBW 100 kHz RF Att 10 dB  
Ref Lvl 17.3 dBm Offset -54.99 dBm VBW 300 kHz  
6.63529058 GHz SWT 6.4 s Unit dBm



Date: 12.JUN.2008 11:03:43



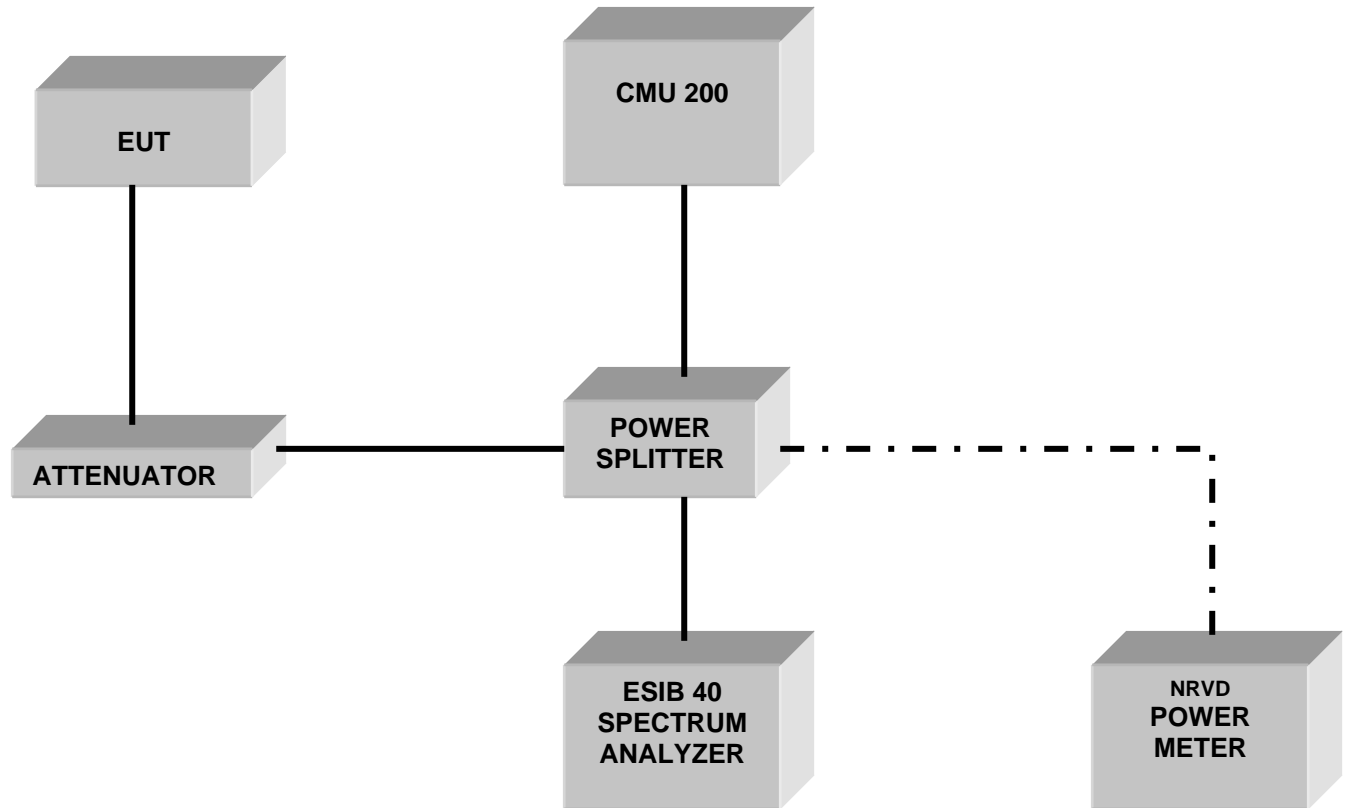
**7 TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS**

No	Instrument/Ancillary	Type	Manufacturer	Serial No.	Cal Due	Interval
01	Spectrum Analyzer	ESIB 40	Rohde & Schwarz	100107	May 2008	1 year
02	Spectrum Analyzer	FSEM 30	Rohde & Schwarz	100017	August 2008	1 year
03	Signal Generator	SMY02	Rohde & Schwarz	836878/011	May 2008	1 year
04	Power-Meter	NRVD	Rohde & Schwarz	0857.8008.02	May 2008	1 year
05	Biconilog Antenna	3141	EMCO	0005-1186	June 2008	1 year
06	Horn Antenna (1-18GHz)	SAS-200/571	AH Systems	325	June 2008	1 year
07	Horn Antenna (18-26.5GHz)	3160-09	EMCO	1240	June 2008	1 year
08	Power Splitter	11667B	Hewlett Packard	645348	n/a	n/a
09	Climatic Chamber	VT4004	Voltsch	G1115	May 2008	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 2008	1 year
13	Power Sensor	URV5-Z2	Rohde & Schwarz	DE30807	May 2008	1 year
14	Digital Radio Comm. Tester	CMD-55	Rohde & Schwarz	847958/008	May 2008	1 year
15	Universal Radio Comm. Tester	CMU 200	Rohde & Schwarz	832221/06	May 2008	1 year
16	LISN	ESH3-Z5	Rohde & Schwarz	836679/003	May 2008	1 year
17	Loop Antenna	6512	EMCO	00049838	July 2008	2 years



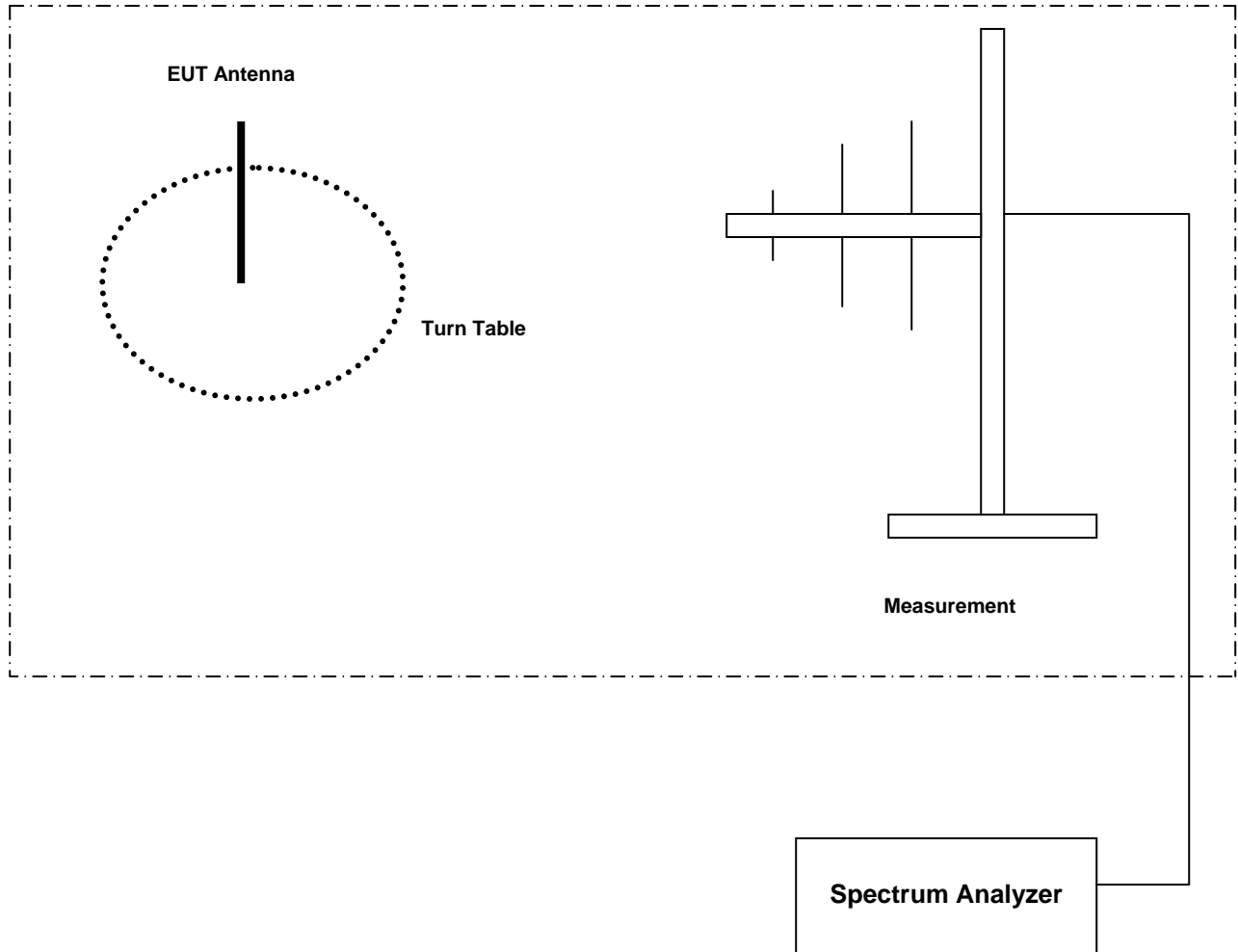
## 8 BLOCK DIAGRAMS

### Conducted Testing



**Radiated Testing**

**ANECHOIC CHAMBER**





## 9 Revision History.

2008-6-15: First Issue.

2008-6-23: Rev1. Corrected Type in report conducted output power. Added measurement settings. This report replaces original titled "EMC\_PSION\_004\_15\_247\_FHSS\_PX750BT8" and dated 2008-6-15.