



# Appendix A

## Modulation Characteristic Measurement

According to FCC part 2.1047 and part 27 subpart C



# 1. Channel Bandwidth = 5 MHz

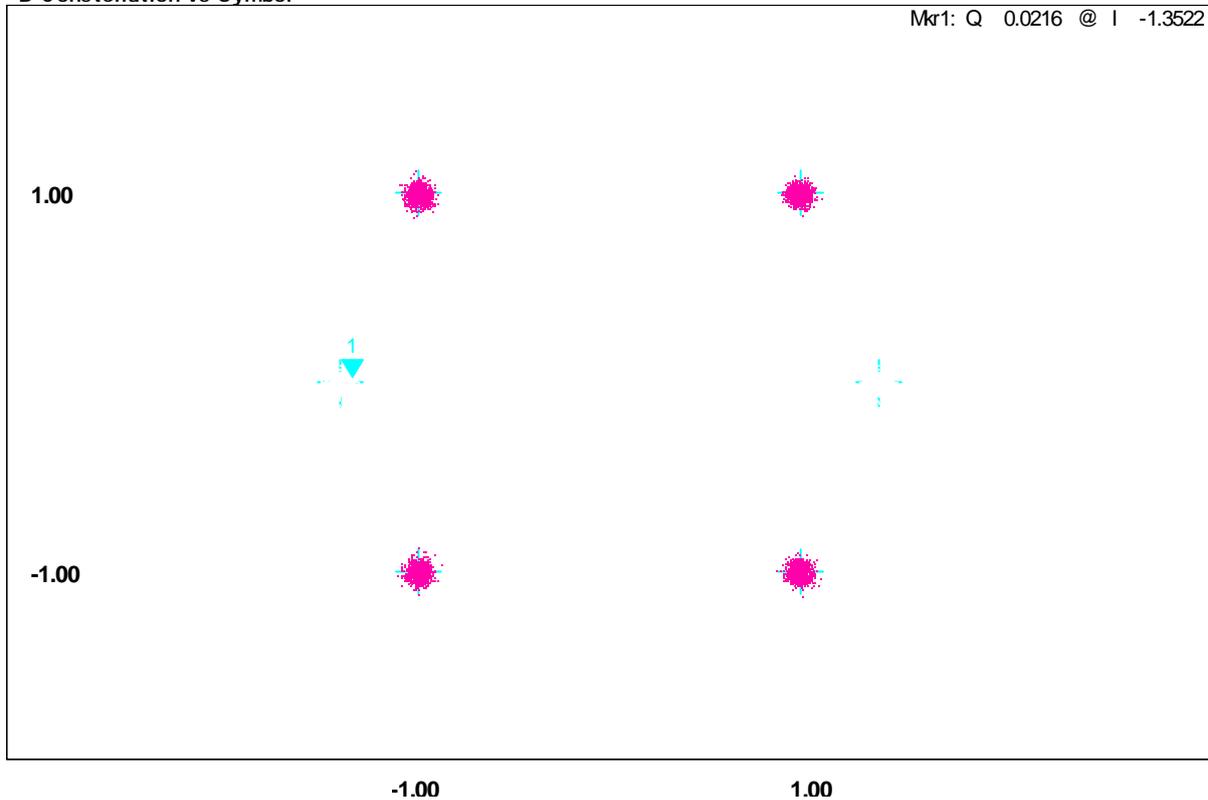
## 1) TM 1

### B

IEEE 802.16e-2005 OFDMA			
Frequency/Fs: 2.4985 GHz / 5.6 MHz	Signal Lvl. Setting/Ext. At: 14.9 dBm / 11.5 dB	Capture Time/No.Samples: 2.3 ms / 12881	
Seg=0, UL-PUSC, ID=A	1/1 (1)	Meas Setup: 1 TX x 1 RX	Zone Offset / Len: 0 / 18 Symbols

SINGLE TRG: POWER RF

**B Constellation vs Symbol**



Measurement Complete

PO

Date: 18.MAR.2011 14:59:29

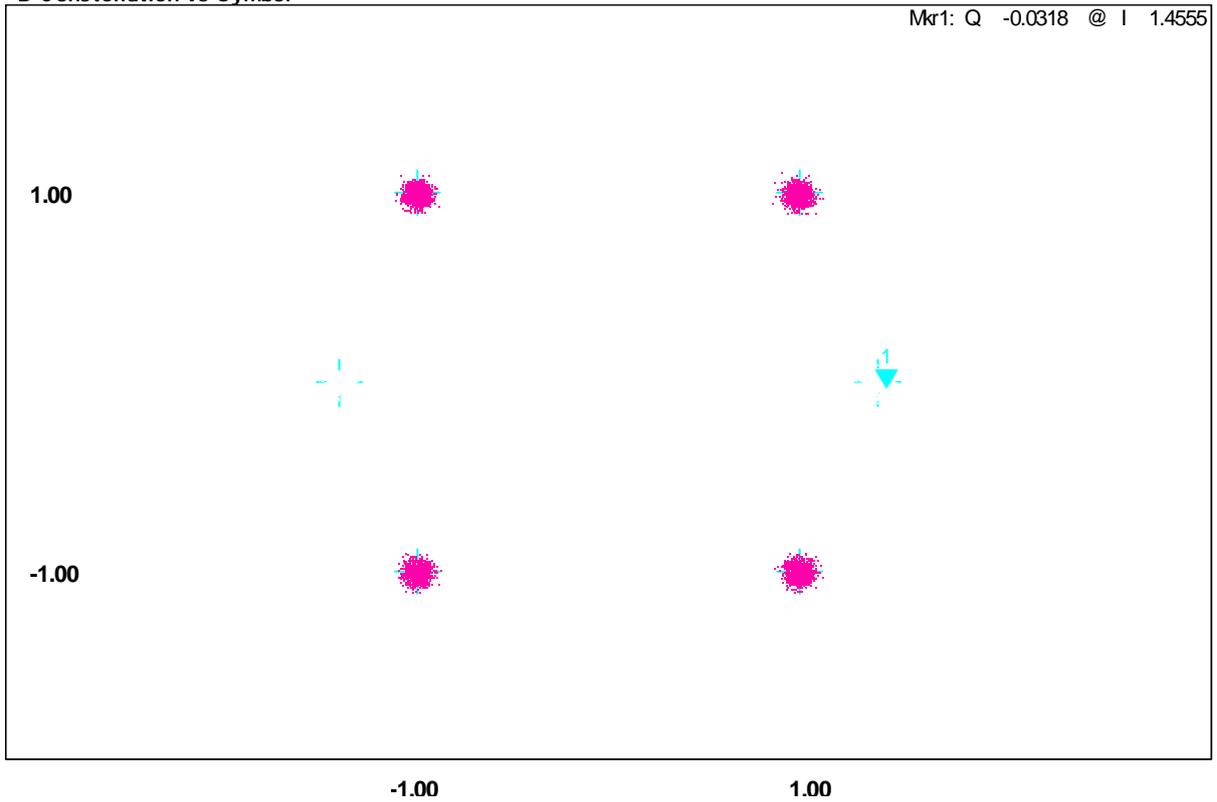


# M

IEEE 802.16e-2005 OFDMA		
Frequency/Fs: 2.593 GHz / 5.6 MHz	Signal Lvl. Setting/Ext. At 14.9 dBm / 11.5 dB	Capture Time/No.Samples: 2.3 ms / 12881
Seg=0, UL-PUSC, ID=A 1/1 (1)	Meas Setup: 1 TX x 1 RX	Zone Offset / Len: 0 / 18 Symbols

SINGLE TRG: POWER RF

## B Constellation vs Symbol



Measurement Complete

PO

Date: 18.MAR.2011 14:58:50

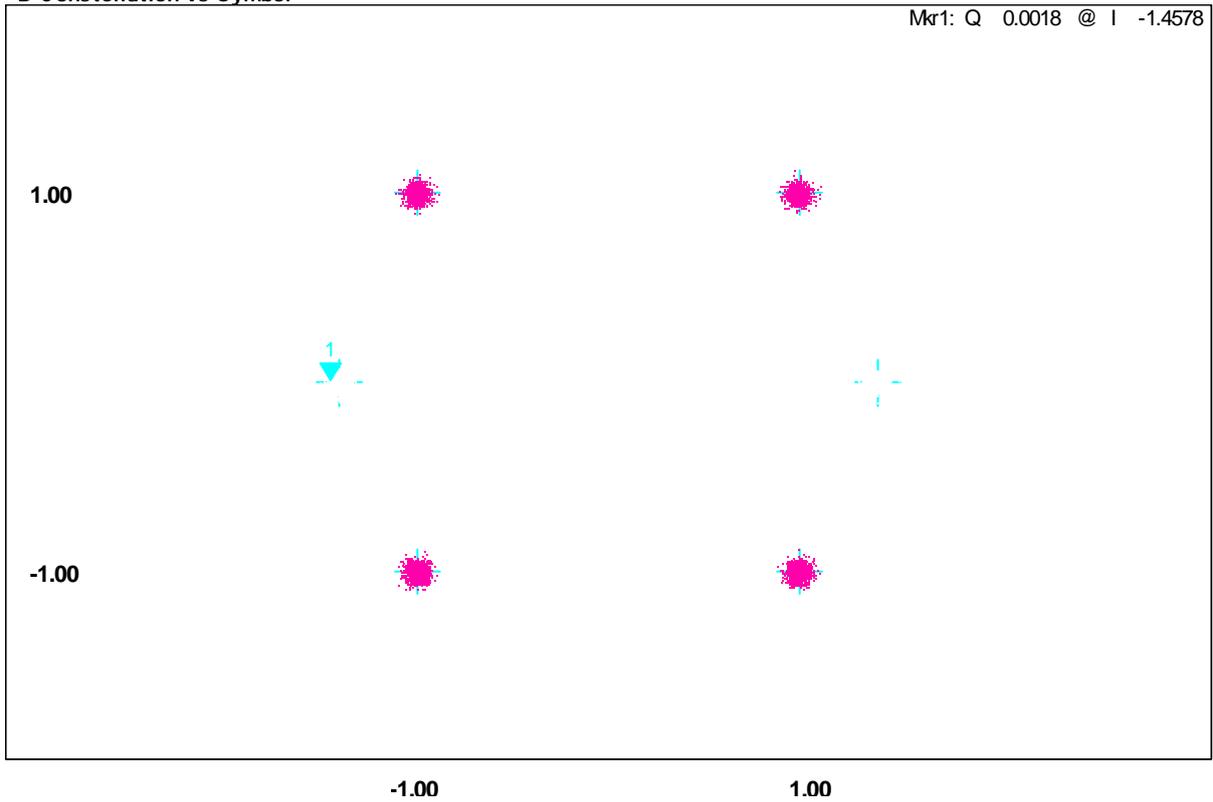


# T

IEEE 802.16e-2005 OFDMA		
Frequency/Fs: 2.6875 GHz / 5.6 MHz	Signal Lvl. Setting/Ext. At 14.9 dBm / 11.5 dB	Capture Time/No.Samples: 2.3 ms / 12881
Seg=0, UL-PUSC, ID=A	1/1 (1)	Meas Setup: 1 TX x 1 RX
		Zone Offset / Len: 0 / 18 Symbols

SINGLE TRG: POWER RF

## B Constellation vs Symbol



Measurement Complete

PO

Date: 18.MAR.2011 14:58:11

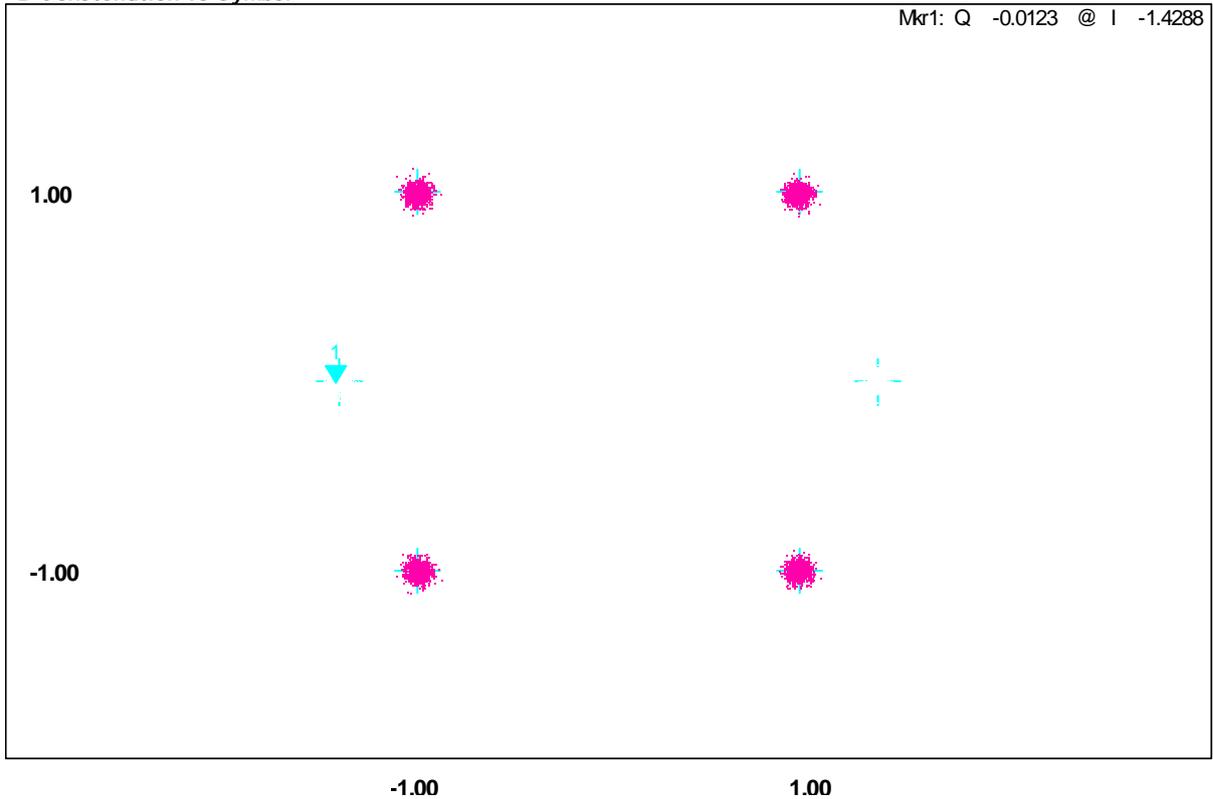


## 2) TM 2

### B

IEEE 802.16e-2005 OFDMA		
Frequency/Fs: 2.4985 GHz / 5.6 MHz	Signal Lvl. Setting/Ext. At14.9 dBm / 11.5 dB	Capture Time/No.Samples: 2.3 ms / 12881
Seg=0, UL-PUSC, ID=A	1/1 (1)	Meas Setup: 1 TX x 1 RX
Zone Offset / Len: 0 / 18 Symbols		
SINGLE	TRG: POWER	RF

B Constellation vs Symbol



Measurement Complete

PO

Date: 18.MAR.2011 15:01:26

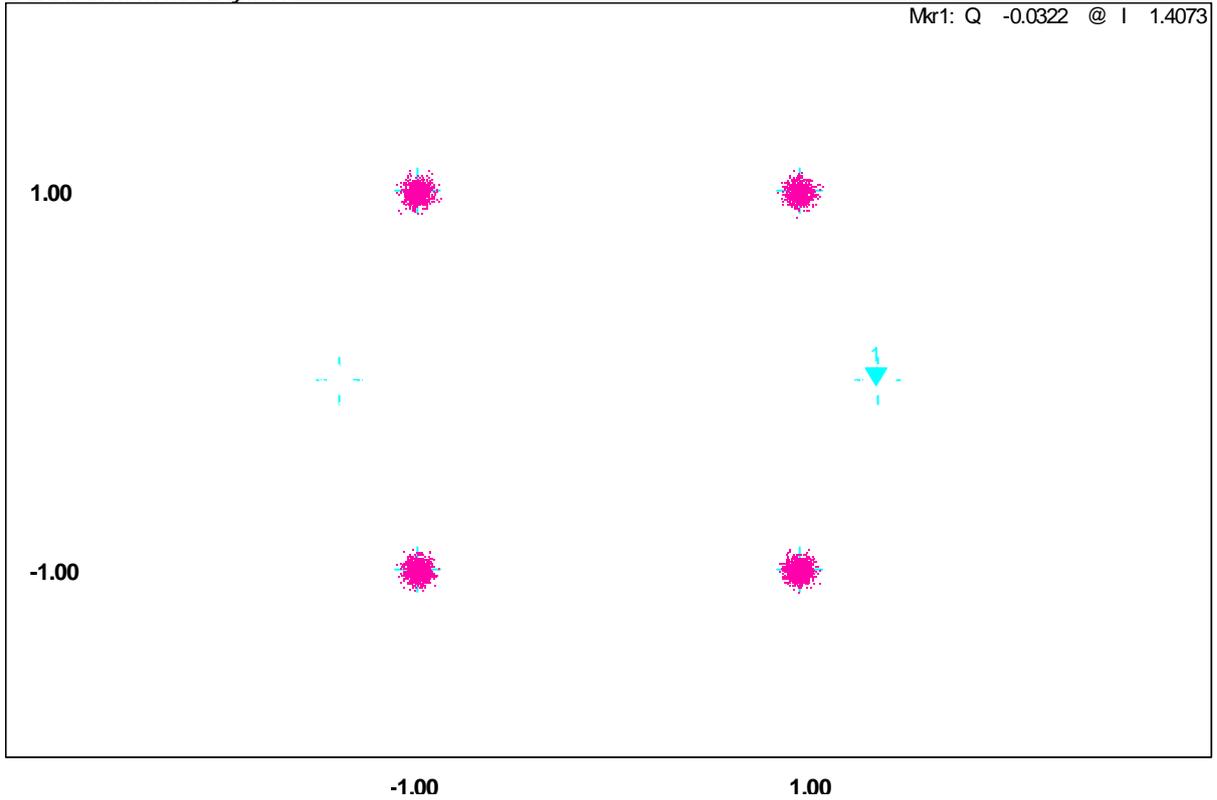


# M

IEEE 802.16e-2005 OFDMA		
Frequency/Fs: 2.593 GHz / 5.6 MHz	Signal Lvl. Setting/Ext. At 14.9 dBm / 11.5 dB	Capture Time/No.Samples: 2.3 ms / 12881
Seg=0, UL-PUSC, ID=A 1/1 (1)	Meas Setup: 1 TX x 1 RX	Zone Offset / Len: 0 / 18 Symbols

SINGLE TRG: POWER RF

## B Constellation vs Symbol



Measurement Complete

PO

Date: 18.MAR.2011 15:00:47

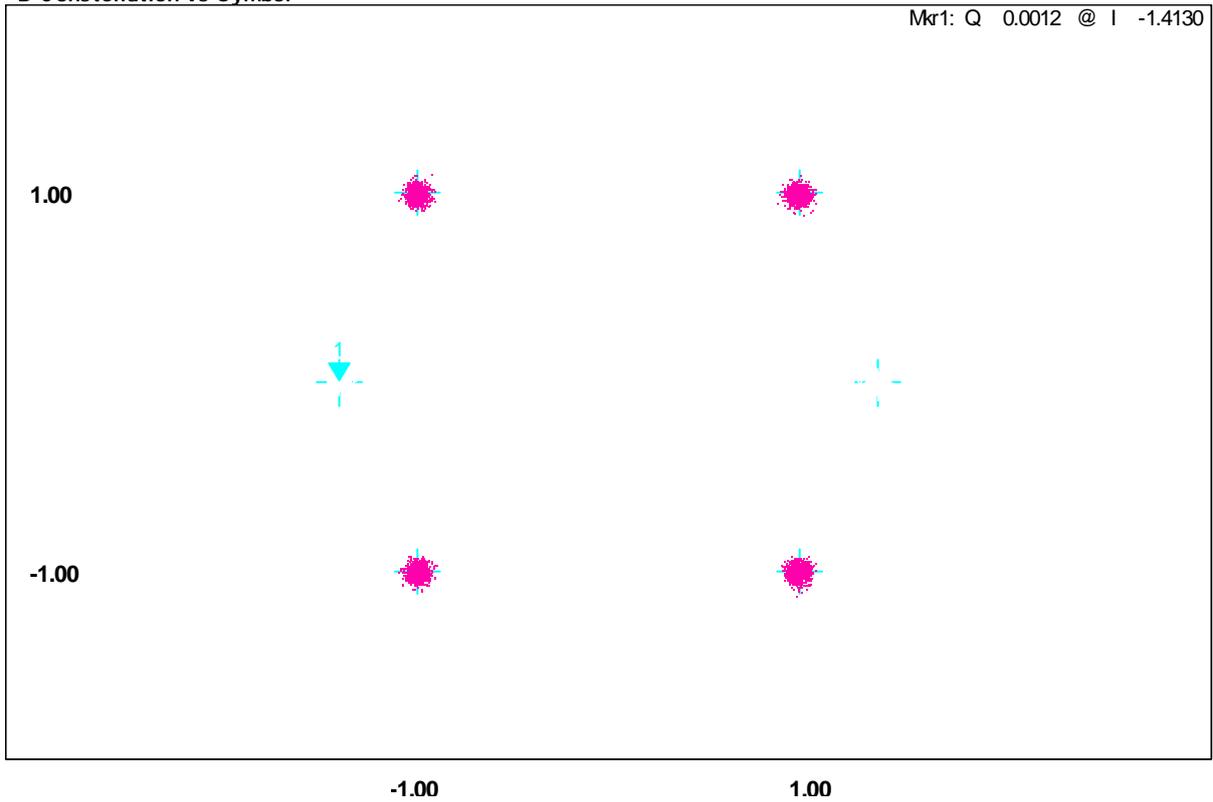


# T

IEEE 802.16e-2005 OFDMA		
Frequency/Fs: 2.6875 GHz / 5.6 MHz	Signal Lvl. Setting/Ext. At 14.9 dBm / 11.5 dB	Capture Time/No.Samples: 2.3 ms / 12881
Seg=0, UL-PUSC, ID=A	1/1 (1)	Meas Setup: 1 TX x 1 RX
		Zone Offset / Len: 0 / 18 Symbols

SINGLE TRG: POWER RF

## B Constellation vs Symbol



Measurement Complete

PO

Date: 18.MAR.2011 15:00:08

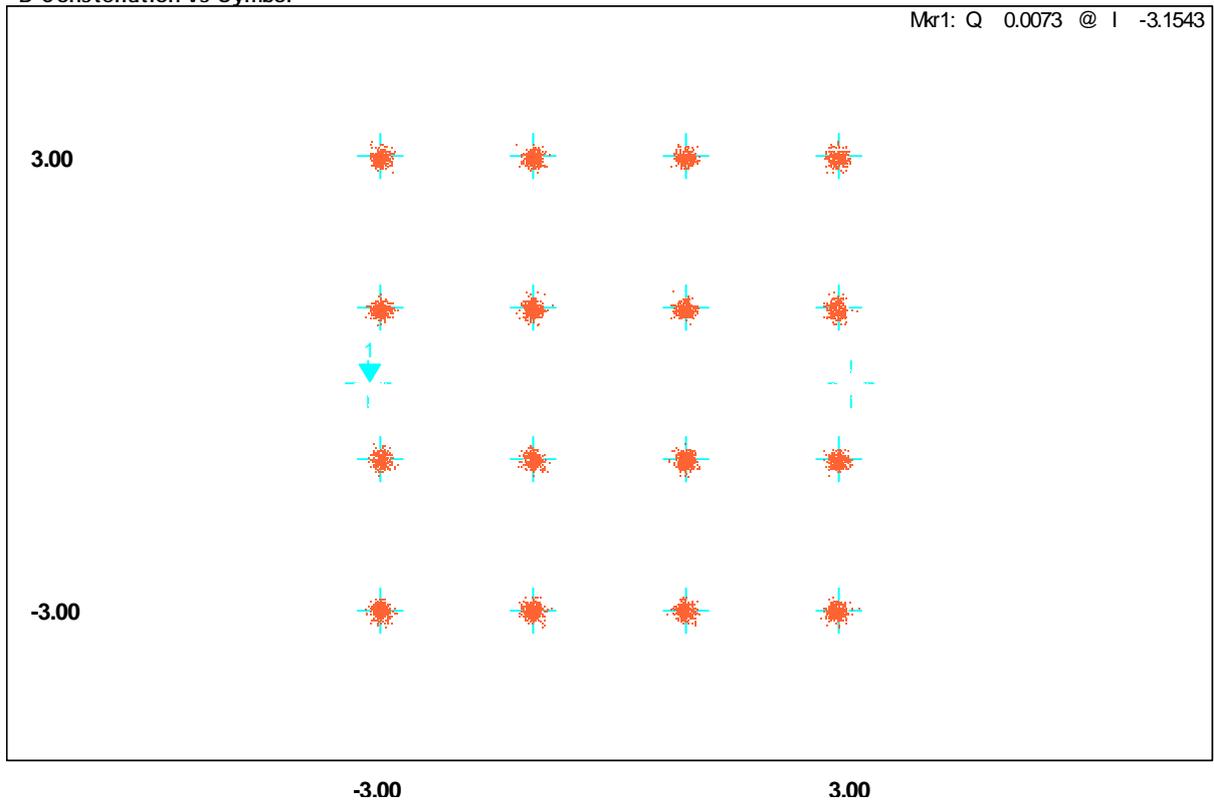


### 3) TM 3

## B

IEEE 802.16e-2005 OFDMA			
Frequency/Fs: 2.4985 GHz / 5.6 MHz	Signal Lvl. Setting/Ext. At14.9 dBm / 11.5 dB	Capture Time/No.Samples: 2.3 ms / 12881	
Seg=0, UL-PUSC, ID=A	1/1 (1)	Meas Setup: 1 TX x 1 RX	Zone Offset / Len: 0 / 18 Symbols
SINGLE	TRG: POWER	RF	

**B Constellation vs Symbol**



Measurement Complete

PO

Date: 18.MAR.2011 15:03:24

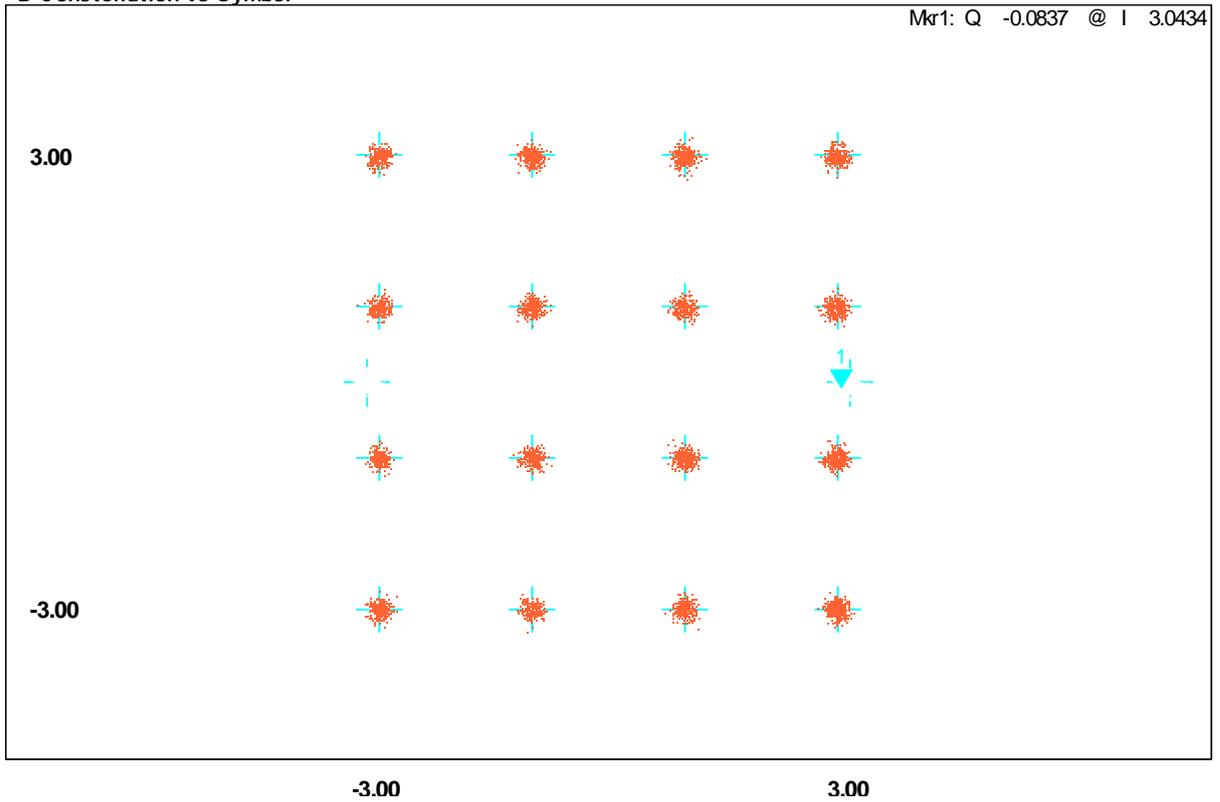


# M

IEEE 802.16e-2005 OFDMA			
Frequency/Fs: 2.593 GHz / 5.6 MHz	Signal Lvl. Setting/Ext. At 14.9 dBm / 11.5 dB	Capture Time/No.Samples: 2.3 ms / 12881	
Seg=0, UL-PUSC, ID=A	1/1 (1)	Meas Setup: 1 TX x 1 RX	Zone Offset / Len: 0 / 18 Symbols

SINGLE TRG: POWER RF

## B Constellation vs Symbol



Measurement Complete

PO

Date: 18.MAR.2011 15:02:44

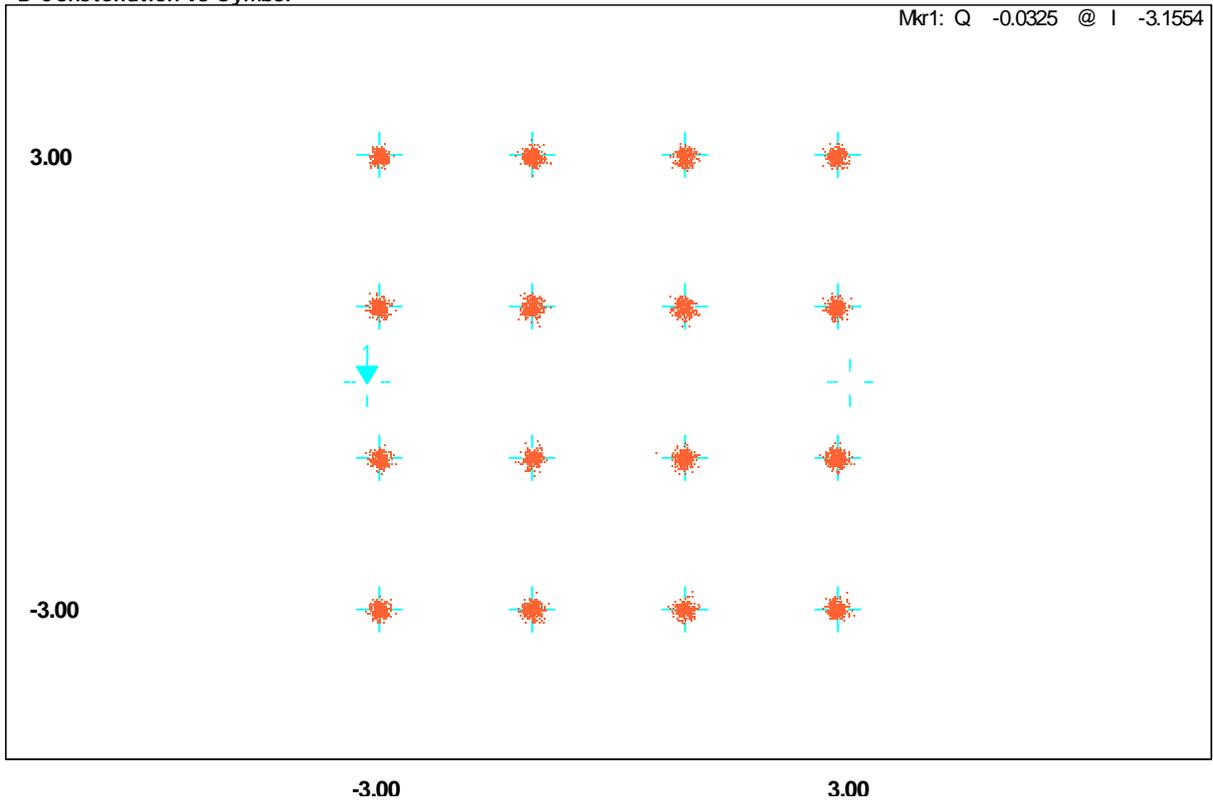


# T

IEEE 802.16e-2005 OFDMA			
Frequency/Fs: 2.6875 GHz / 5.6 MHz	Signal Lvl. Setting/Ext. At 14.9 dBm / 11.5 dB	Capture Time/No.Samples: 2.3 ms / 12881	
Seg=0, UL-PUSC, ID=A	1/1 (1)	Meas Setup: 1 TX x 1 RX	Zone Offset / Len: 0 / 18 Symbols

SINGLE TRG: POWER RF

## B Constellation vs Symbol



Measurement Complete

PO

Date: 18.MAR.2011 15:02:05

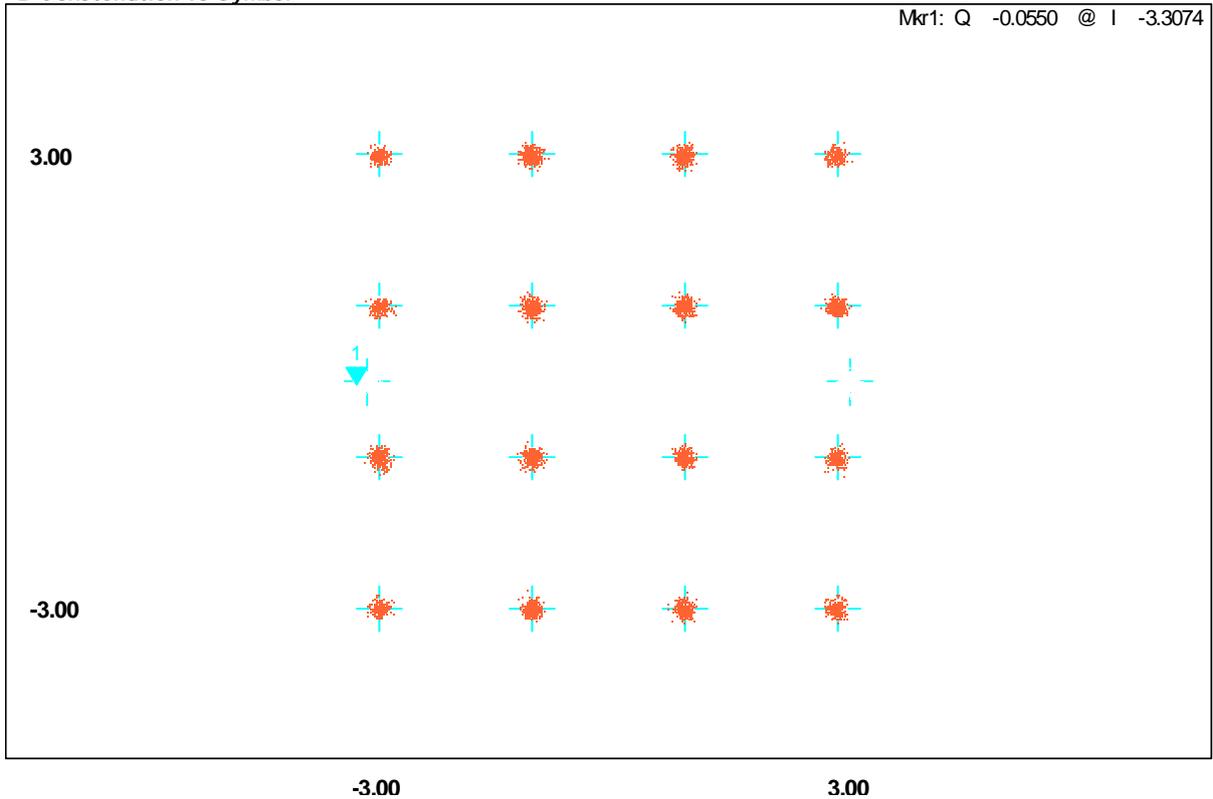


## 4) TM 4

### B

IEEE 802.16e-2005 OFDMA			
Frequency/Fs: 2.4985 GHz / 5.6 MHz	Signal Lvl. Setting/Ext. At14.9 dBm / 11.5 dB	Capture Time/No.Samples: 2.3 ms / 12881	
Seg=0, UL-PUSC, ID=A	1/1 (1)	Meas Setup: 1 TX x 1 RX	Zone Offset / Len: 0 / 18 Symbols
SINGLE	TRG: POWER	RF	

B Constellation vs Symbol



Measurement Complete

PO

Date: 18.MAR.2011 15:05:22

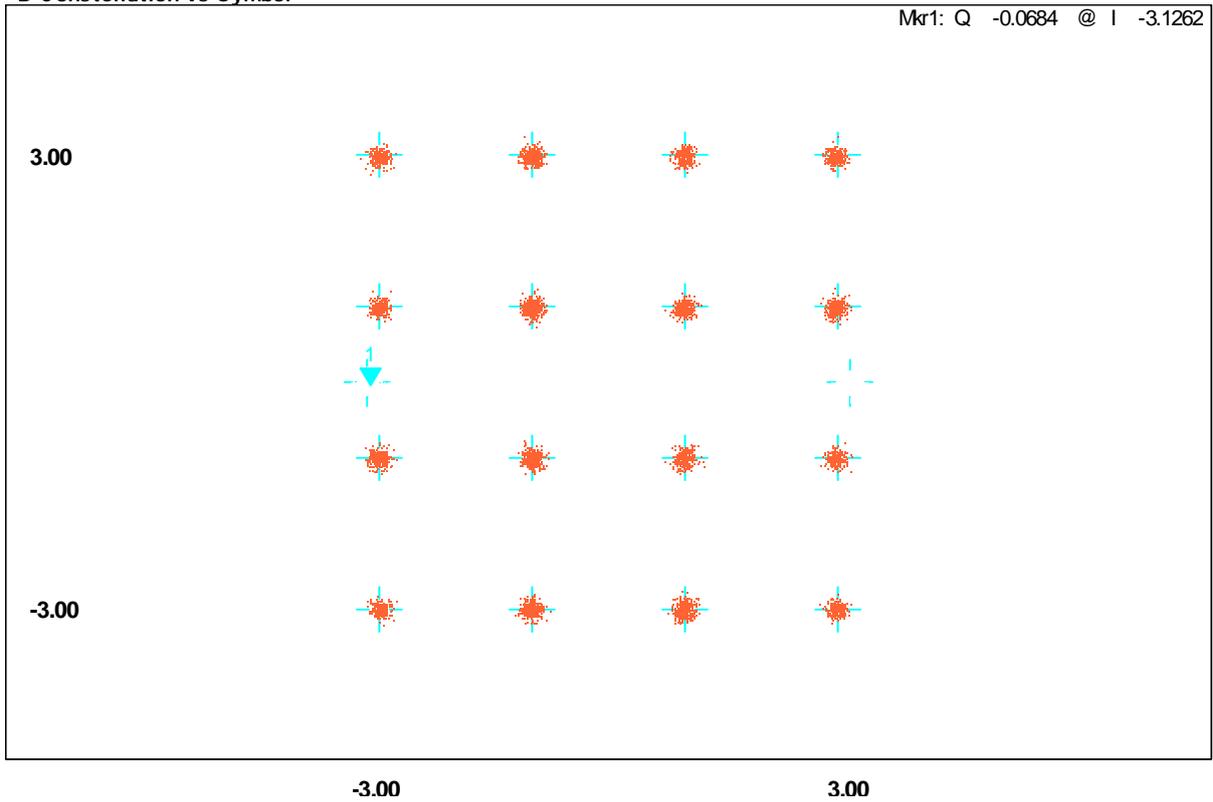


# M

IEEE 802.16e-2005 OFDMA			
Frequency/Fs: 2.593 GHz / 5.6 MHz	Signal Lvl. Setting/Ext. At 14.9 dBm / 11.5 dB	Capture Time/No.Samples: 2.3 ms / 12881	
Seg=0, UL-PUSC, ID=A	1/1 (1)	Meas Setup: 1 TX x 1 RX	Zone Offset / Len: 0 / 18 Symbols

SINGLE TRG: POWER RF

## B Constellation vs Symbol



Measurement Complete

PO

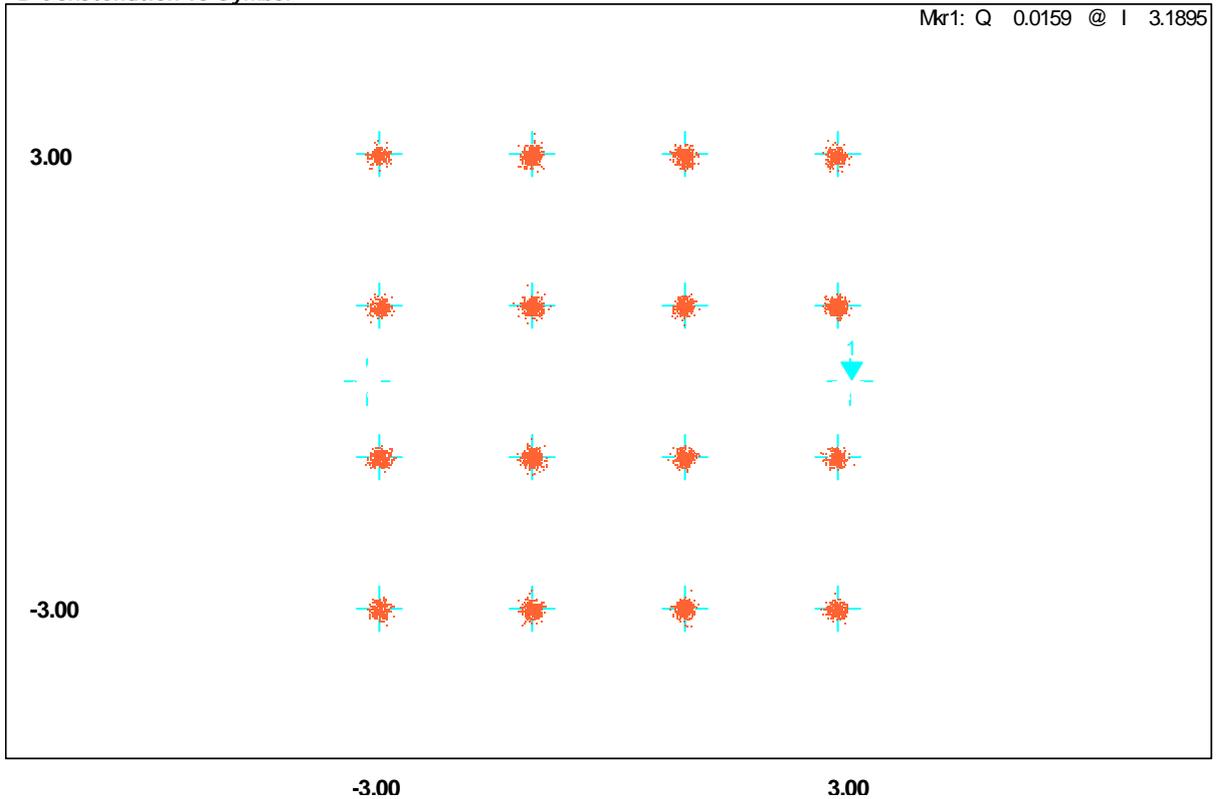
Date: 18.MAR.2011 15:04:42



T

IEEE 802.16e-2005 OFDMA			
Frequency/Fs: 2.6875 GHz / 5.6 MHz	Signal Lvl. Setting/Ext. At14.9 dBm / 11.5 dB	Capture Time/No.Samples: 2.3 ms / 12881	
Seg=0, UL-PUSC, ID=A	1/1 (1)	Meas Setup: 1 TX x 1 RX	Zone Offset / Len: 0 / 18 Symbols
SINGLE	TRG: POWER	RF	

**B Constellation vs Symbol**



Measurement Complete

PO

Date: 18.MAR.2011 15:04:03



## 2. Channel Bandwidth = 10 MHz

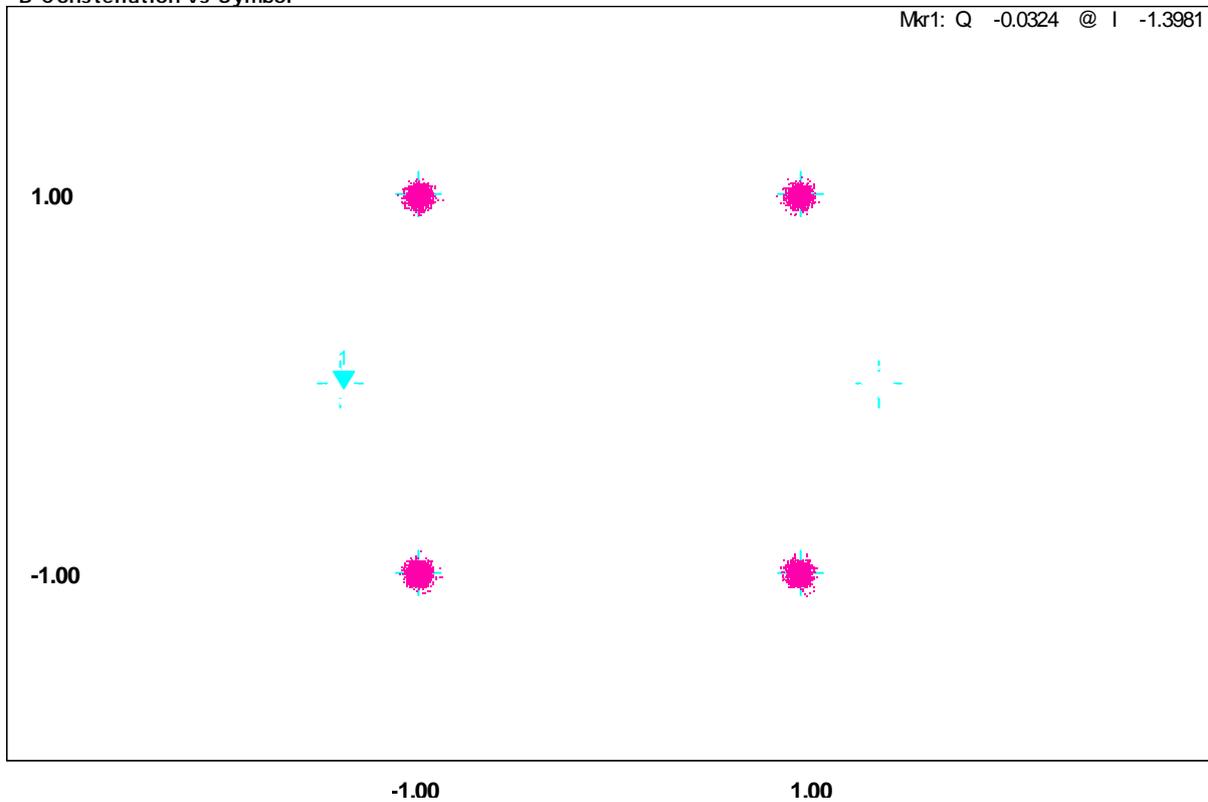
### 1) TM 1

### B

IEEE 802.16e-2005 OFDMA			
Frequency/Fs: 2.501 GHz / 11.2 MHz	Signal Lvl. Setting/Ext. Att: 15 dBm / 11.5 dB	Capture Time/No.Samples: 2 ms / 22401	
Seg=0, UL-PUSC, ID=A	1/1 (1)	Meas Setup: 1 TX x 1 RX	Zone Offset / Len: 0 / 15 Symbols

SINGLE TRG: POWER RF

#### B Constellation vs Symbol



Measurement Complete

PO

Date: 18.MAR.2011 18:00:44

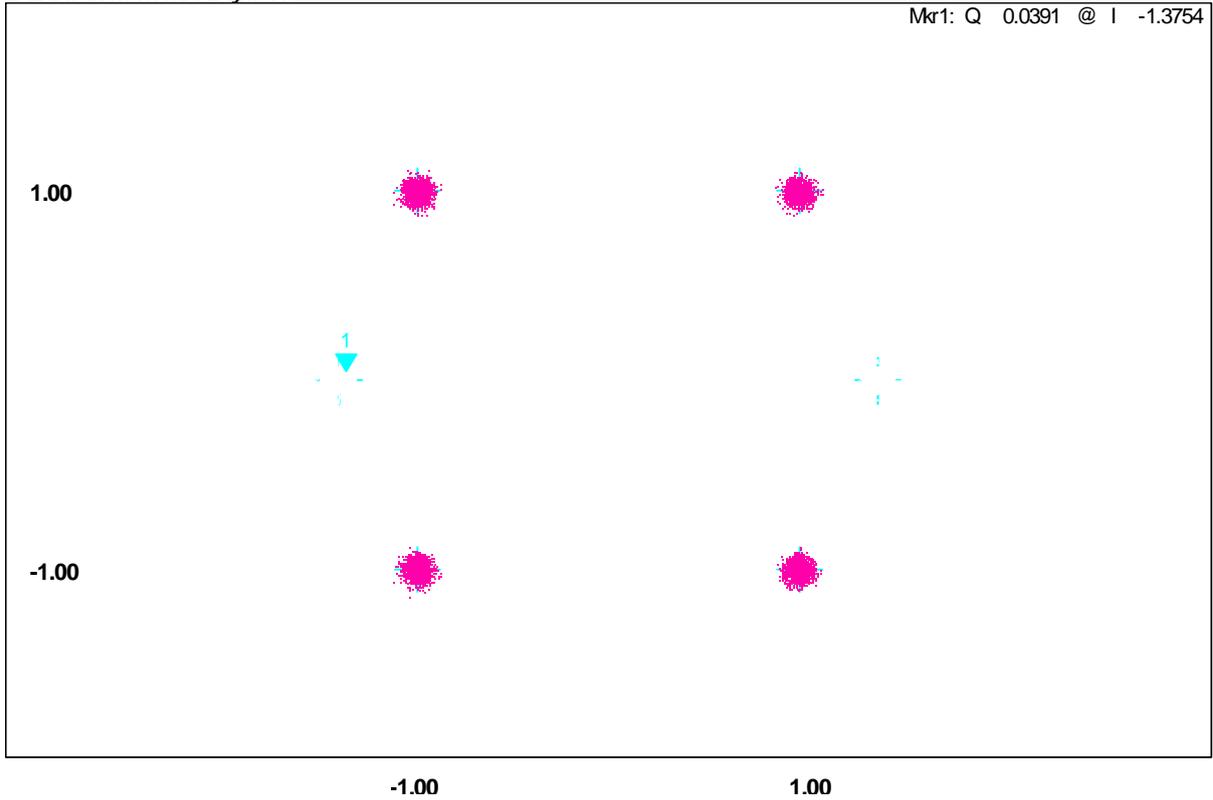


# M

IEEE 802.16e-2005 OFDMA			
Frequency/Fs: 2.593 GHz / 11.2 MHz	Signal Lvl. Setting/Ext. Att: 15 dBm / 11.5 dB	Capture Time/No.Samples: 2 ms / 22401	
Seg=0, UL-PUSC, ID=A	1/1 (1)	Meas Setup: 1 TX x 1 RX	Zone Offset / Len: 0 / 15 Symbols

SINGLE TRG: POWER RF

## B Constellation vs Symbol



Measurement Complete

PO

Date: 18.MAR.2011 18:00:05

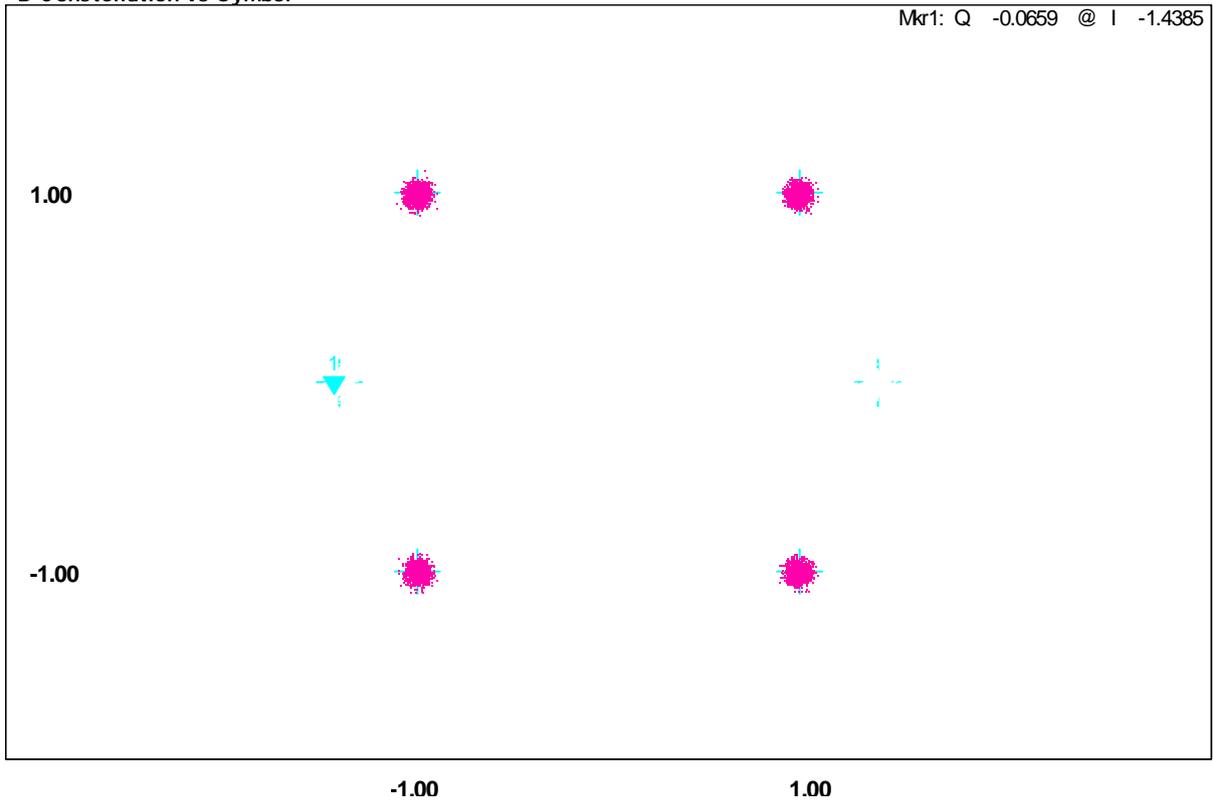


# T

IEEE 802.16e-2005 OFDMA			
Frequency/Fs: 2.685 GHz / 11.2 MHz	Signal Lvl. Setting/Ext. Att: 15 dBm / 11.5 dB	Capture Time/No.Samples: 2 ms / 22401	
Seg=0, UL-PUSC, ID=A	1/1 (1)	Meas Setup: 1 TX x 1 RX	Zone Offset / Len: 0 / 15 Symbols

SINGLE TRG: POWER RF

## B Constellation vs Symbol



Measurement Complete

PO

Date: 18.MAR.2011 17:59:26

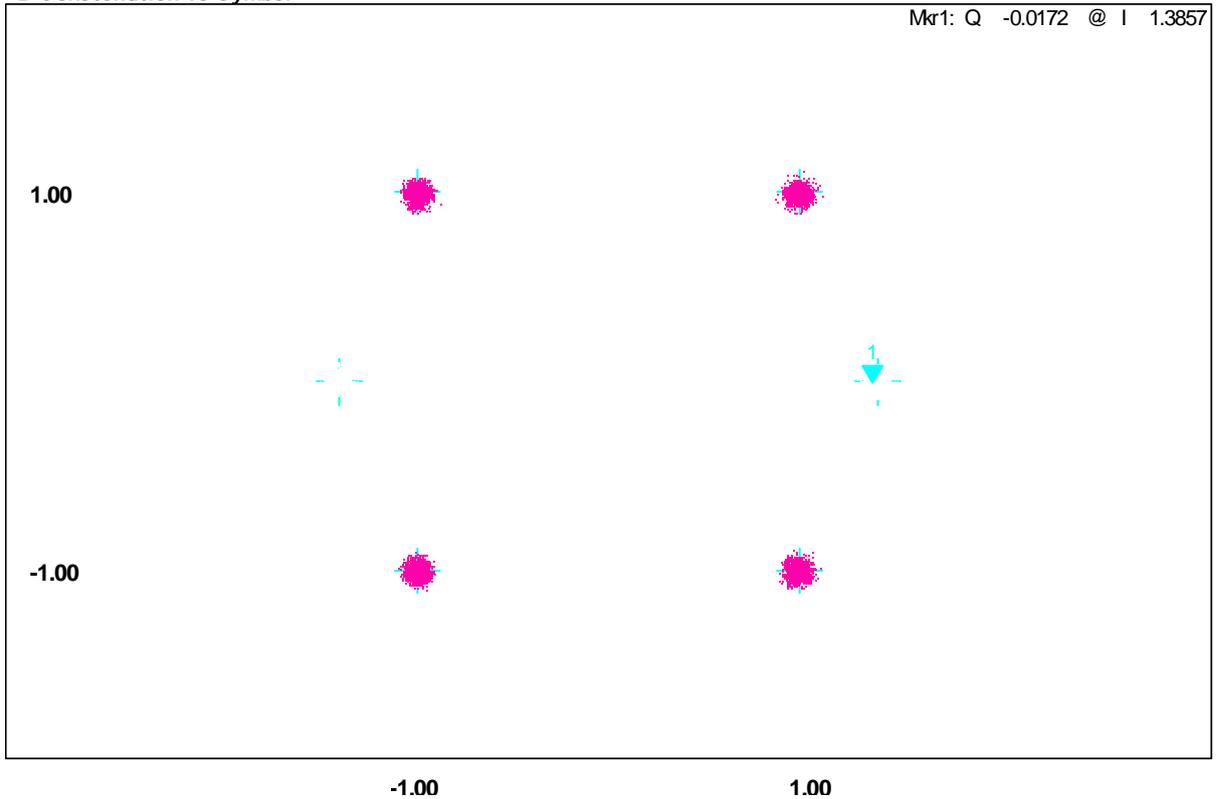


## 2) TM 2

### B

IEEE 802.16e-2005 OFDMA			
Frequency/Fs: 2.501 GHz / 11.2 MHz	Signal Lvl. Setting/Ext. Att: 15 dBm / 11.5 dB	Capture Time/No.Samples: 2 ms / 22401	
Seg=0, UL-PUSC, ID=A	1/1 (1)	Meas Setup: 1 TX x 1 RX	Zone Offset / Len: 0 / 15 Symbols
SINGLE	TRG: POWER	RF	

**B Constellation vs Symbol**



Measurement Complete

PO

Date: 18.MAR.2011 18:02:54

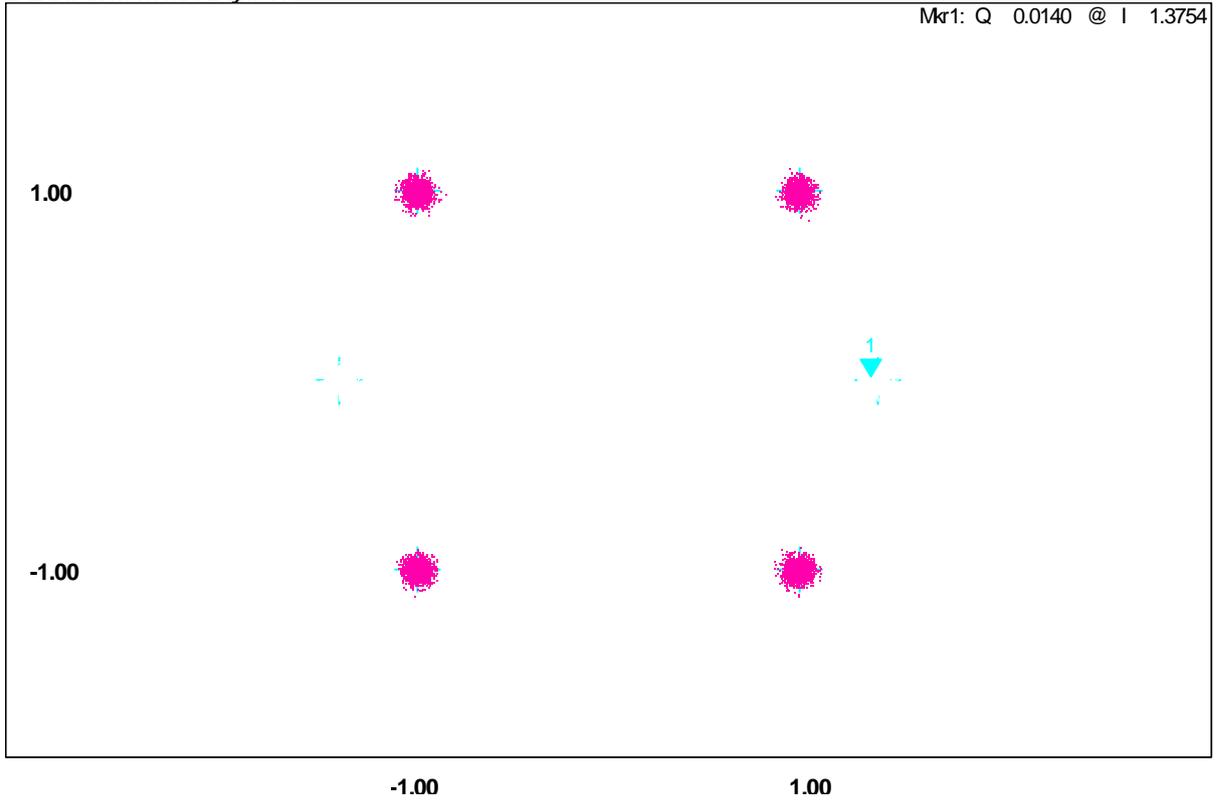


# M

IEEE 802.16e-2005 OFDMA			
Frequency/Fs: 2.593 GHz / 11.2 MHz	Signal Lvl. Setting/Ext. Att: 15 dBm / 11.5 dB	Capture Time/No.Samples: 2 ms / 22401	
Seg=0, UL-PUSC, ID=A	1/1 (1)	Meas Setup: 1 TX x 1 RX	Zone Offset / Len: 0 / 15 Symbols

SINGLE TRG: POWER RF

## B Constellation vs Symbol



Measurement Complete

PO

Date: 18.MAR.2011 18:02:15

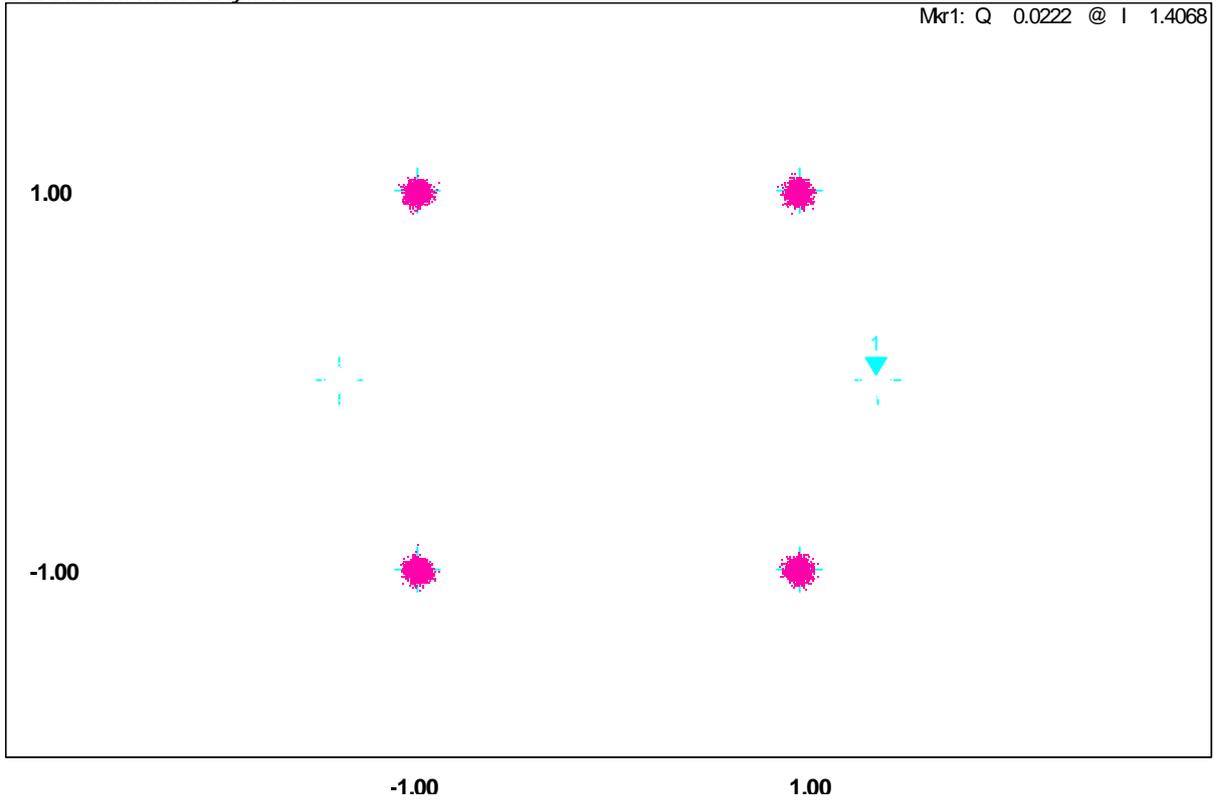


# T

IEEE 802.16e-2005 OFDMA			
Frequency/Fs: 2.685 GHz / 11.2 MHz	Signal Lvl. Setting/Ext. Att: 15 dBm / 11.5 dB	Capture Time/No.Samples: 2 ms / 22401	
Seg=0, UL-PUSC, ID=A	1/1 (1)	Meas Setup: 1 TX x 1 RX	Zone Offset / Len: 0 / 15 Symbols

SINGLE TRG: POWER RF

## B Constellation vs Symbol



Measurement Complete

PO

Date: 18.MAR.2011 18:01:36

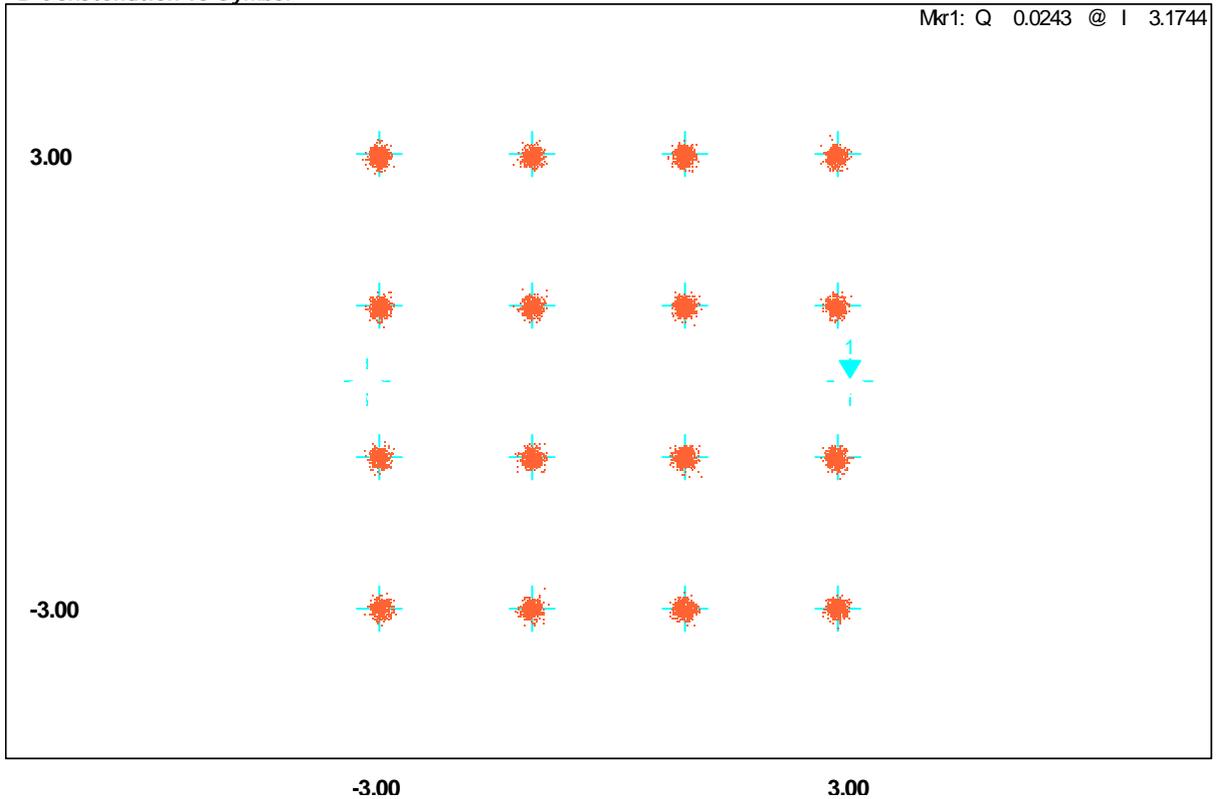


### 3) TM 3

## B

IEEE 802.16e-2005 OFDMA			
Frequency/Fs: 2.501 GHz / 11.2 MHz	Signal Lvl. Setting/Ext. Att: 15 dBm / 11.5 dB	Capture Time/No.Samples: 2 ms / 22401	
Seg=0, UL-PUSC, ID=A	1/1 (1)	Meas Setup: 1 TX x 1 RX	Zone Offset / Len: 0 / 15 Symbols
SINGLE	TRG: POWER	RF	

**B Constellation vs Symbol**



Measurement Complete

PO

Date: 18.MAR.2011 18:04:53

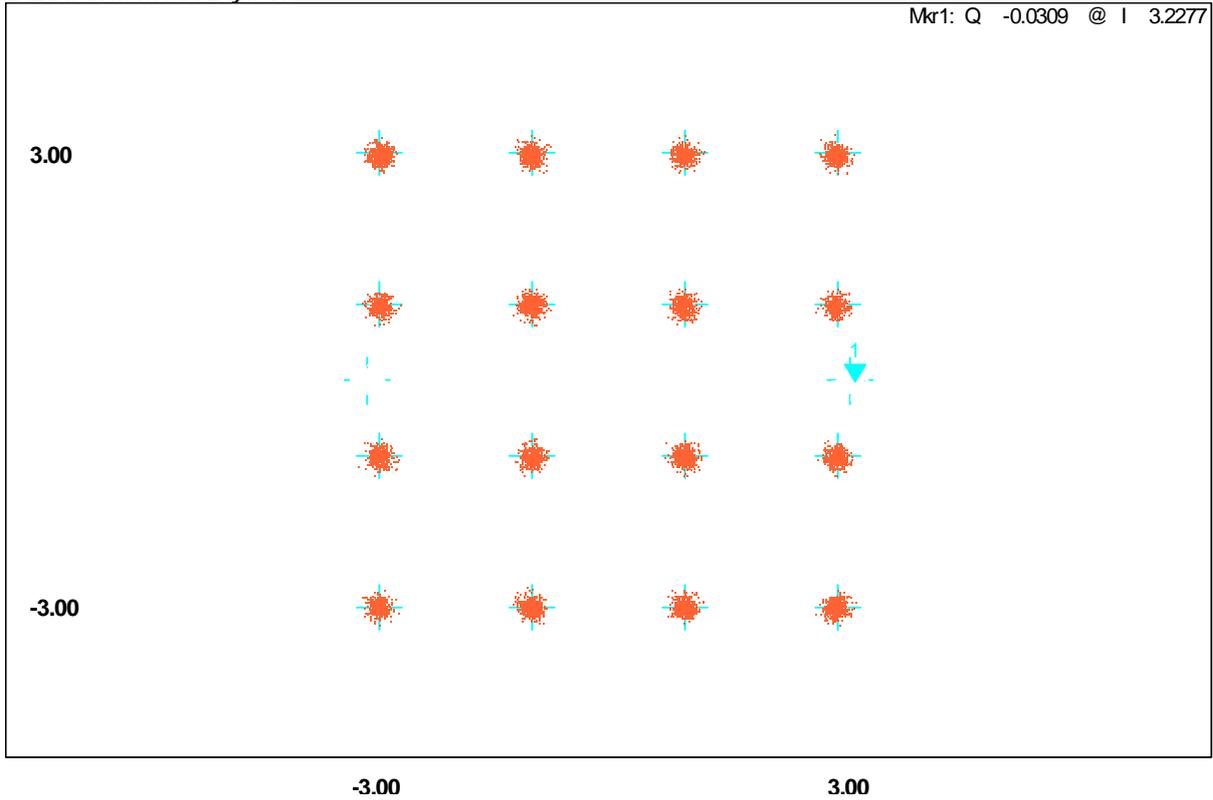


# M

IEEE 802.16e-2005 OFDMA			
Frequency/Fs:	2.593 GHz / 11.2 MHz	Signal Lvl. Setting/Ext. Att: 15 dBm / 11.5 dB	Capture Time/No.Samples: 2 ms / 22401
Seg=0, UL-PUSC, ID=A	1/1 (1)	Meas Setup: 1 TX x 1 RX	Zone Offset / Len: 0 / 15 Symbols

SINGLE TRG: POWER RF

## B Constellation vs Symbol



Measurement Complete

PO

Date: 18.MAR.2011 18:04:13

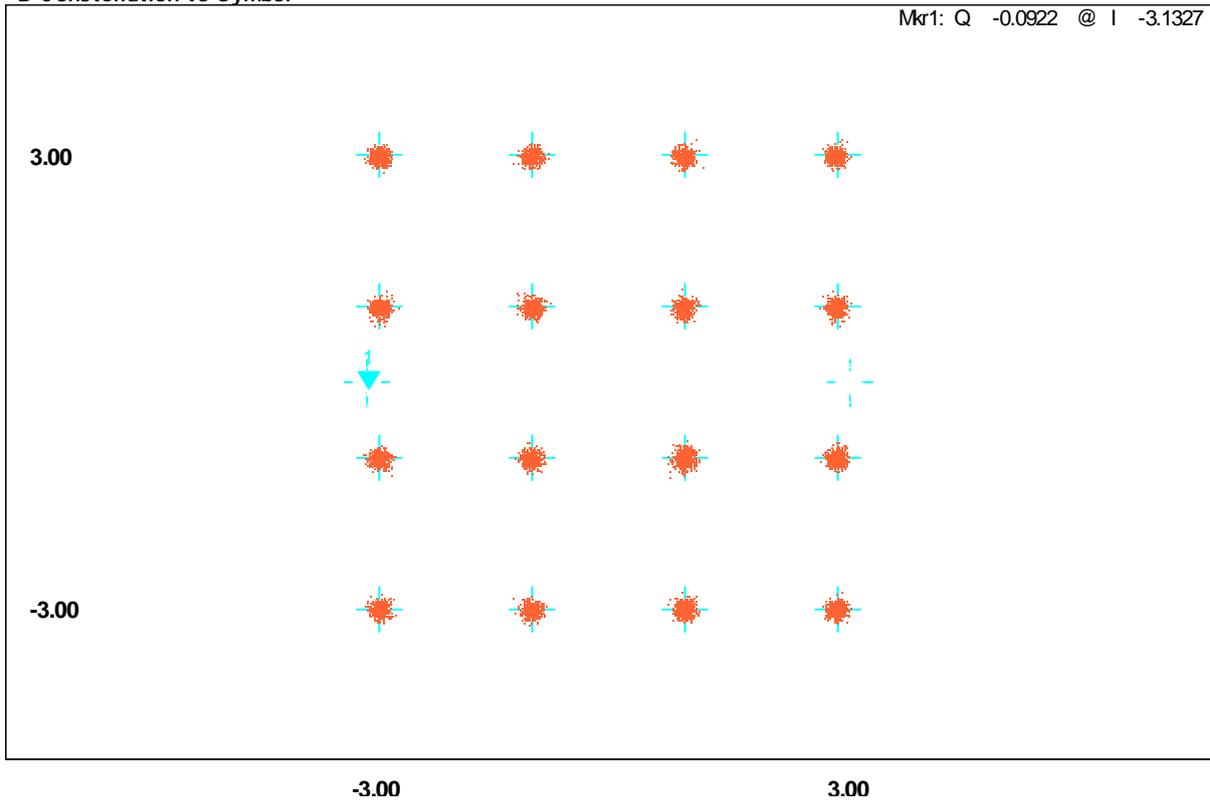


# T

IEEE 802.16e-2005 OFDMA			
Frequency/Fs: 2.685 GHz / 11.2 MHz	Signal Lvl. Setting/Ext. Att: 15 dBm / 11.5 dB	Capture Time/No.Samples: 2 ms / 22401	
Seg=0, UL-PUSC, ID=A	1/1 (1)	Meas Setup: 1 TX x 1 RX	Zone Offset / Len: 0 / 15 Symbols

SINGLE TRG: POWER RF

## B Constellation vs Symbol



Measurement Complete

PO

Date: 18.MAR.2011 18:03:34

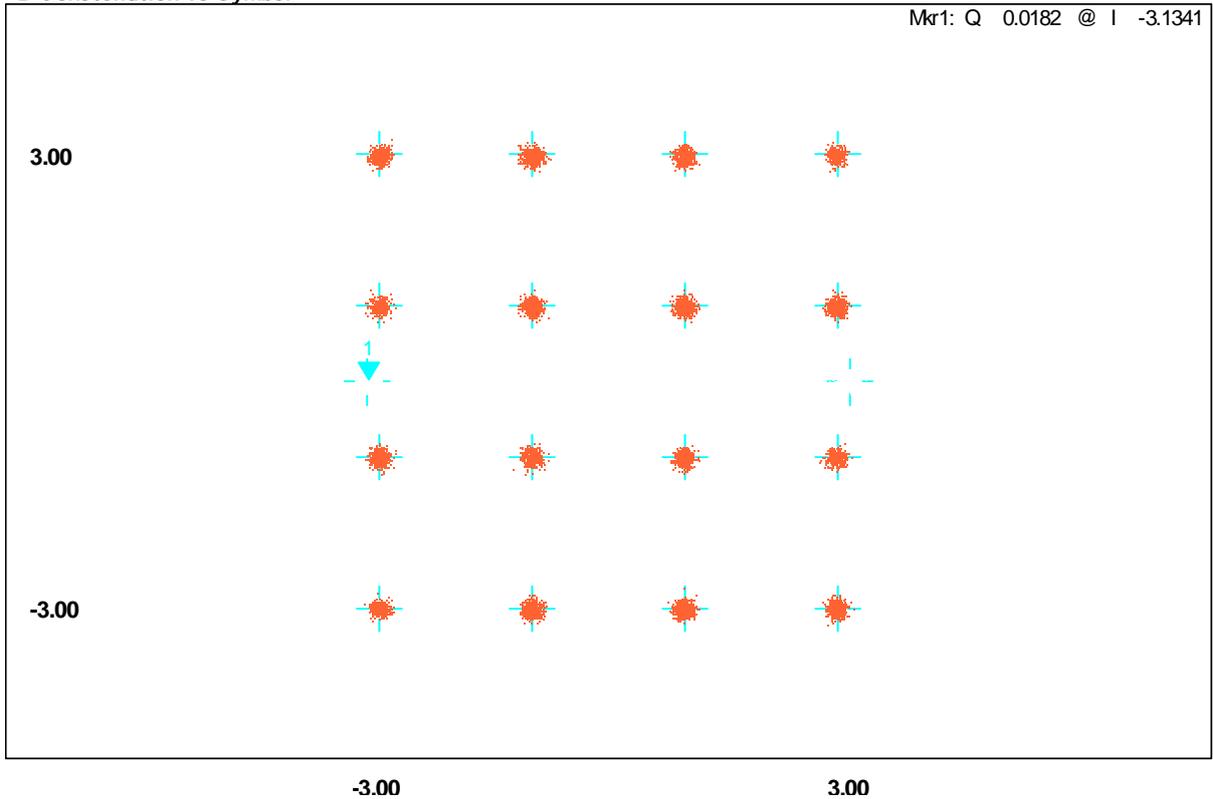


# 4) TM 4

## B

IEEE 802.16e-2005 OFDMA			
Frequency/Fs: 2.501 GHz / 11.2 MHz	Signal Lvl. Setting/Ext. Att: 15 dBm / 11.5 dB	Capture Time/No.Samples: 2 ms / 22401	
Seg=0, UL-PUSC, ID=A	1/1 (1)	Meas Setup: 1 TX x 1 RX	Zone Offset / Len: 0 / 15 Symbols
SINGLE	TRG: POWER	RF	

**B Constellation vs Symbol**



Measurement Complete

PO

Date: 18.MAR.2011 18:06:51

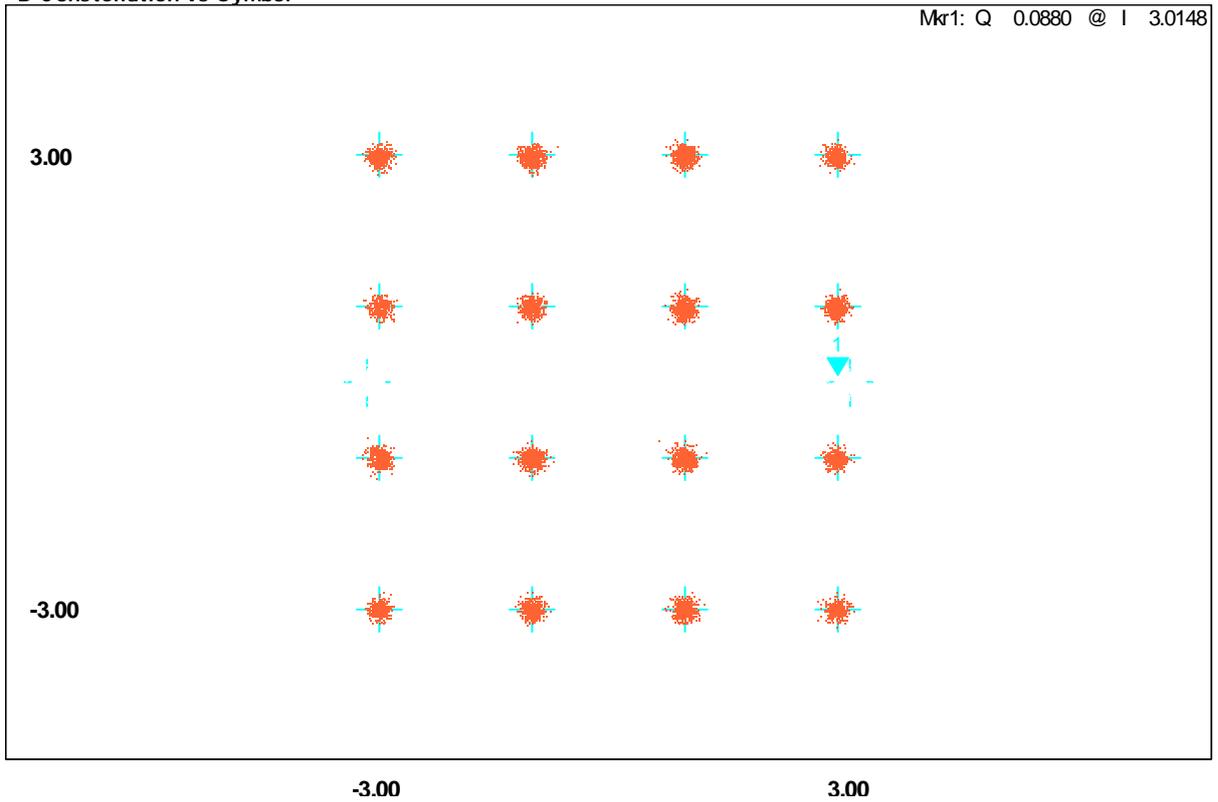


# M

IEEE 802.16e-2005 OFDMA			
Frequency/Fs: 2.593 GHz / 11.2 MHz	Signal Lvl. Setting/Ext. Att: 15 dBm / 11.5 dB	Capture Time/No.Samples: 2 ms / 22401	
Seg=0, UL-PUSC, ID=A	1/1 (1)	Meas Setup: 1 TX x 1 RX	Zone Offset / Len: 0 / 15 Symbols

SINGLE TRG: POWER RF

## B Constellation vs Symbol



Measurement Complete

PO

Date: 18.MAR.2011 18:06:12

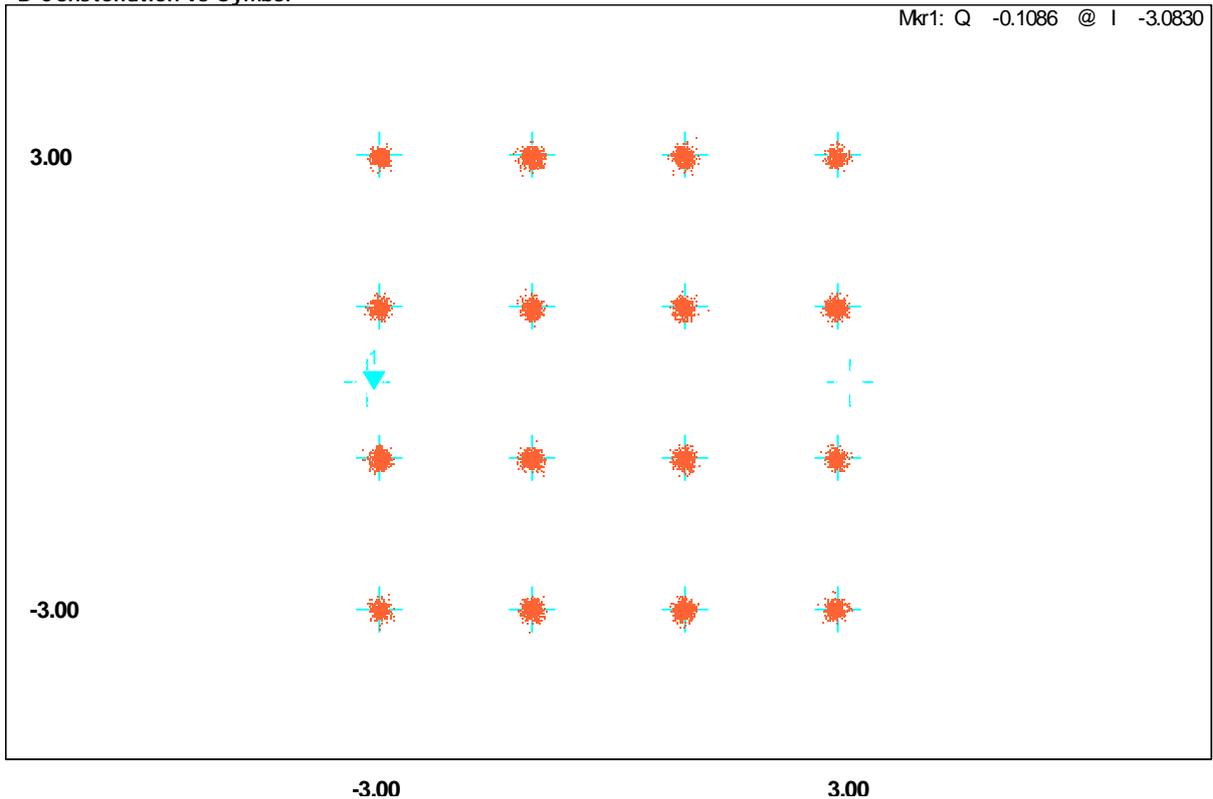


# T

IEEE 802.16e-2005 OFDMA			
Frequency/Fs:	2.685 GHz / 11.2 MHz	Signal Lvl. Setting/Ext. Att: 15 dBm / 11.5 dB	Capture Time/No.Samples: 2 ms / 22401
Seg=0, UL-PUSC, ID=A	1/1 (1)	Meas Setup: 1 TX x 1 RX	Zone Offset / Len: 0 / 15 Symbols

SINGLE TRG: POWER RF

## B Constellation vs Symbol



Measurement Complete

PO

Date: 18.MAR.2011 18:05:32





## **Appendix B**

# Occupied Bandwidth Measurement

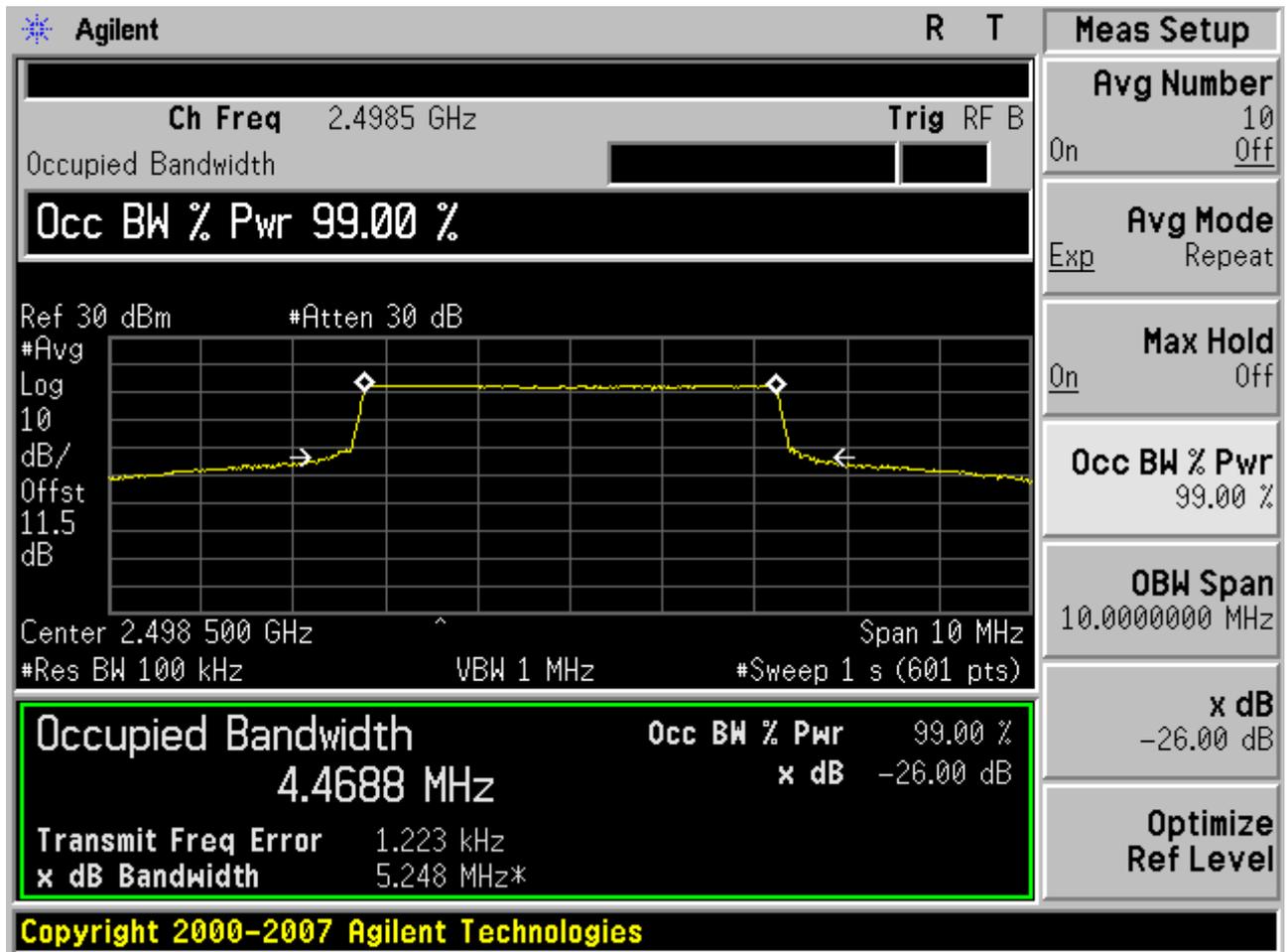
According to FCC part 2.1049 and part 27 subpart C &  
M



# 1. Channel Bandwidth = 5 MHz

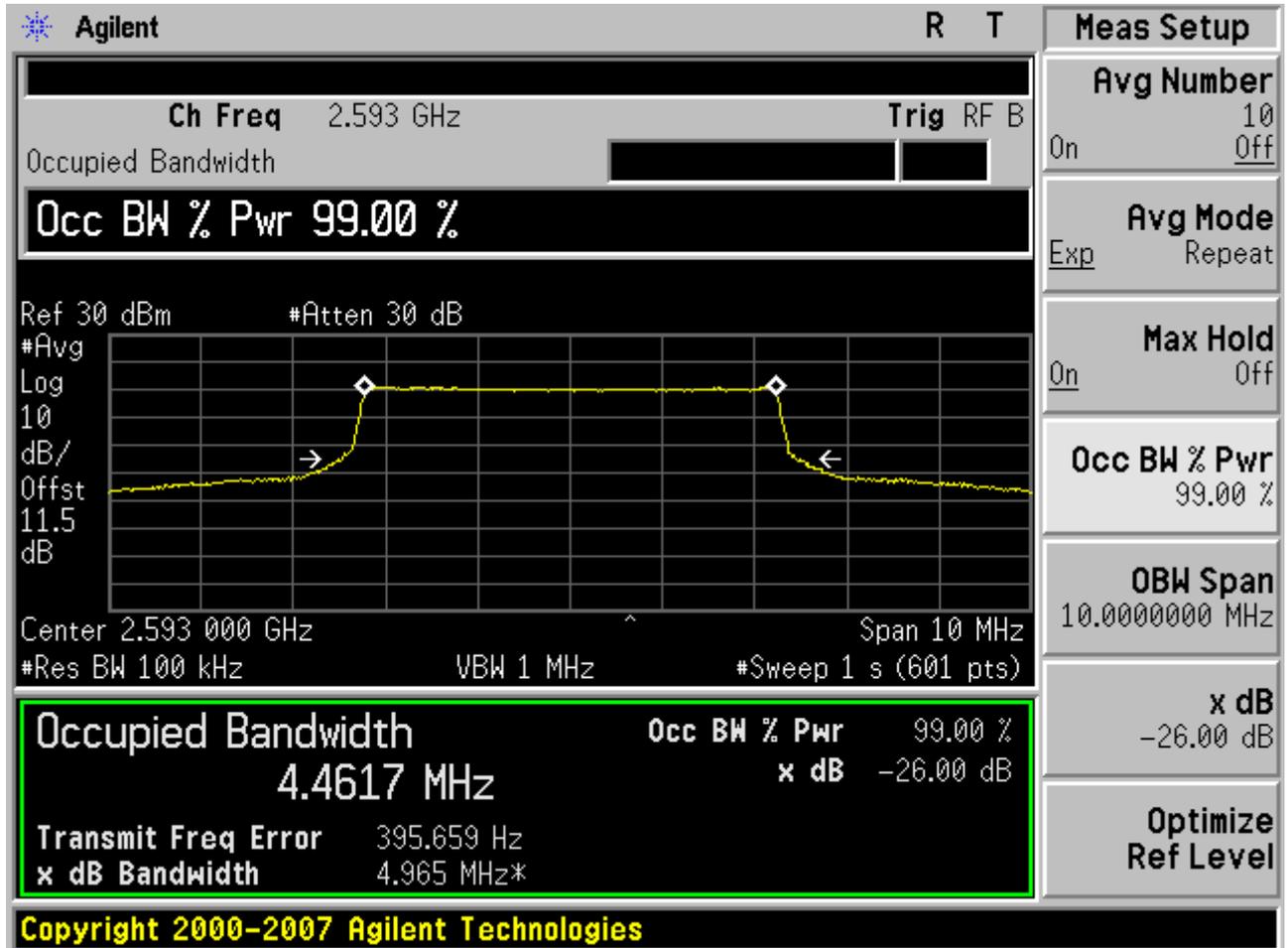
## 1) TM 1

B



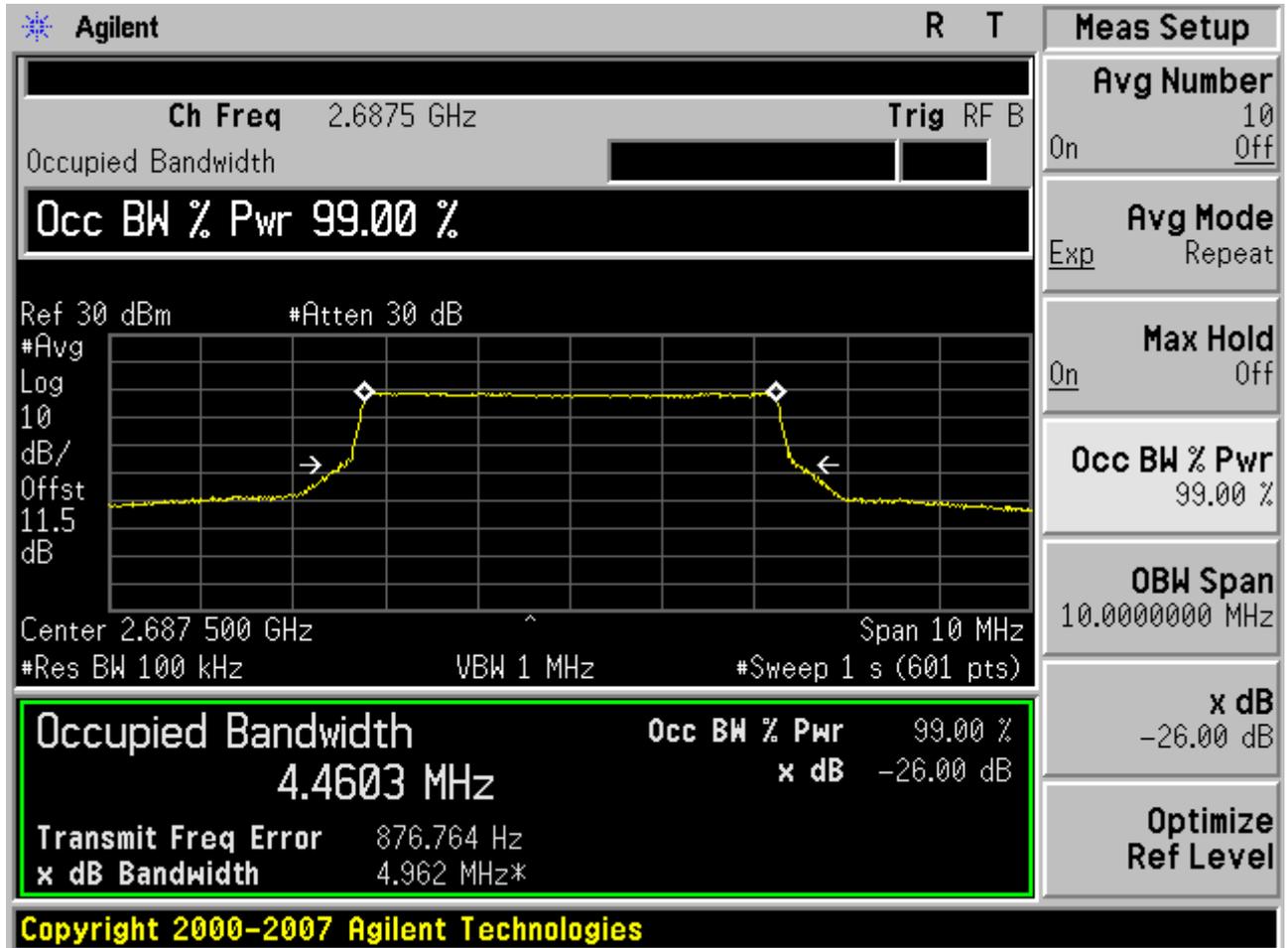


M



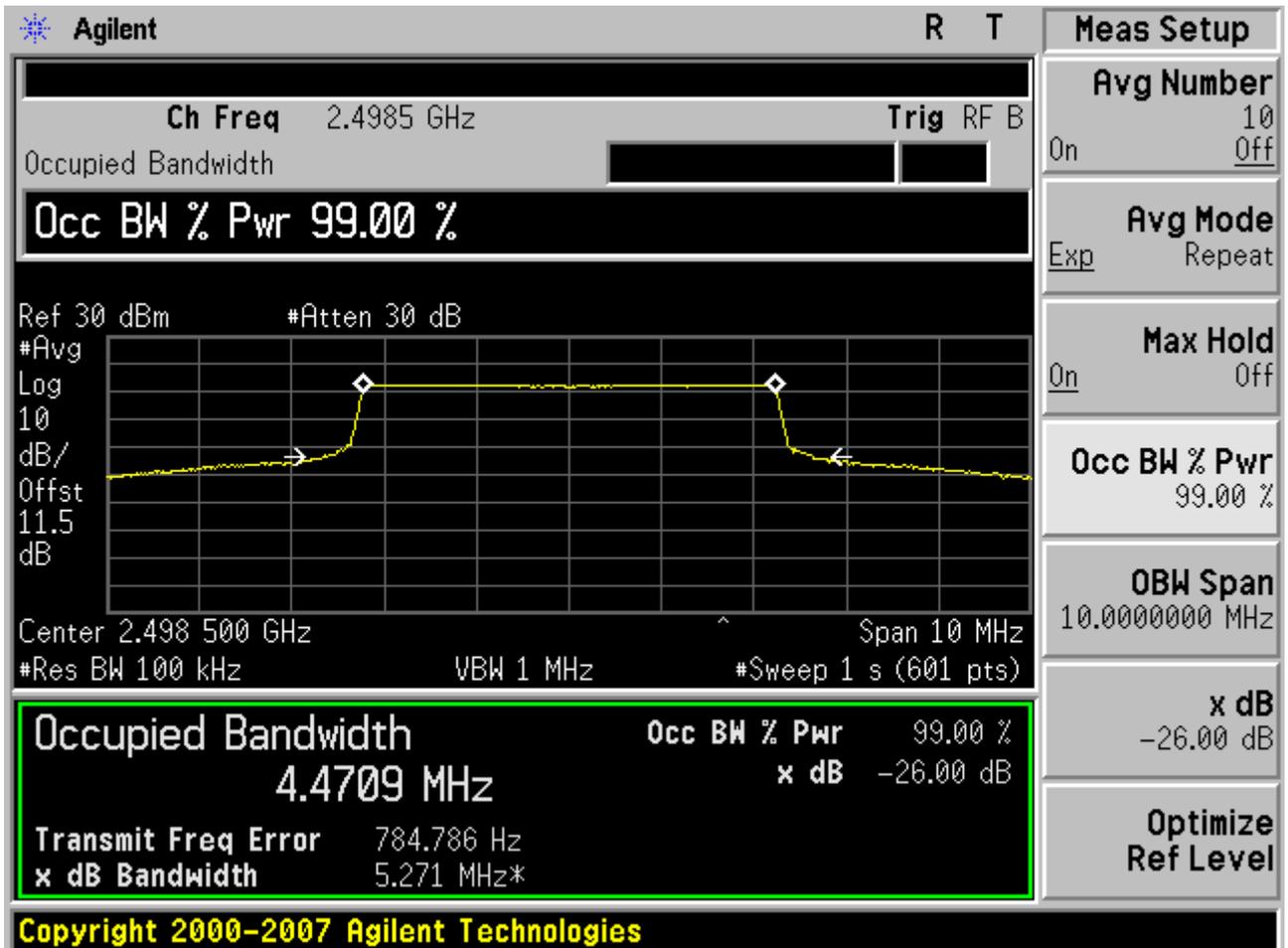


T



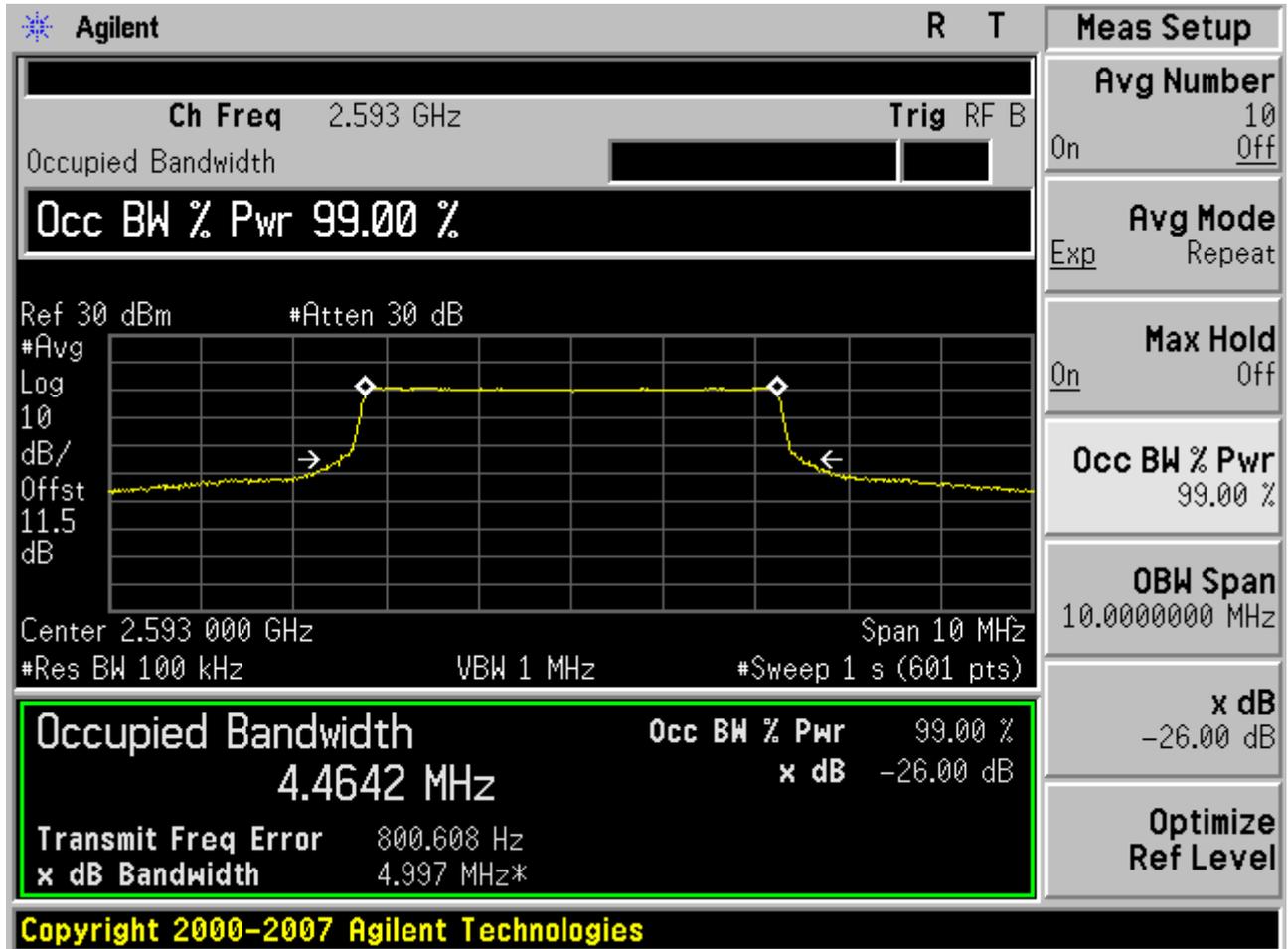


## 2) TM 2 B



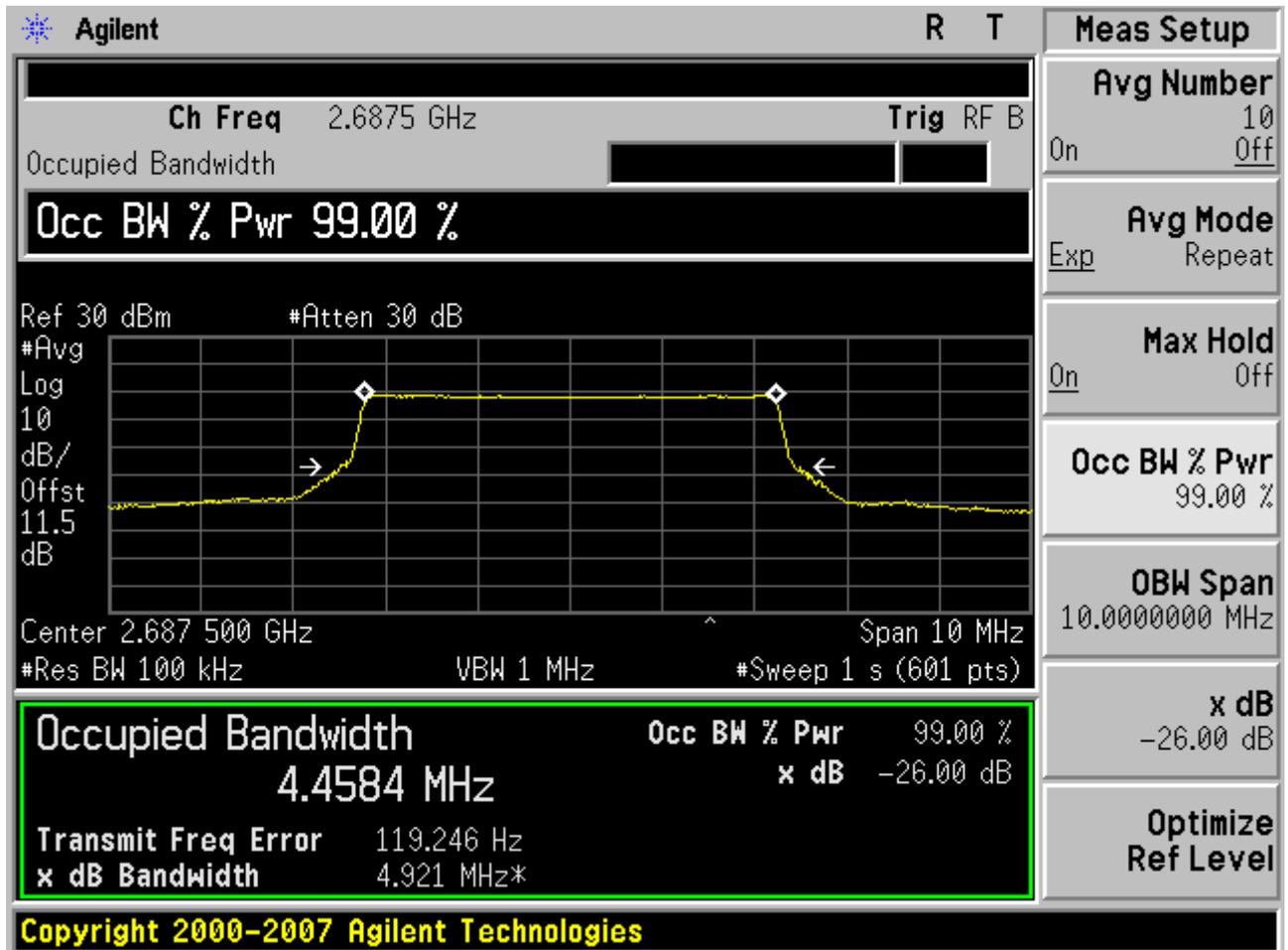


M



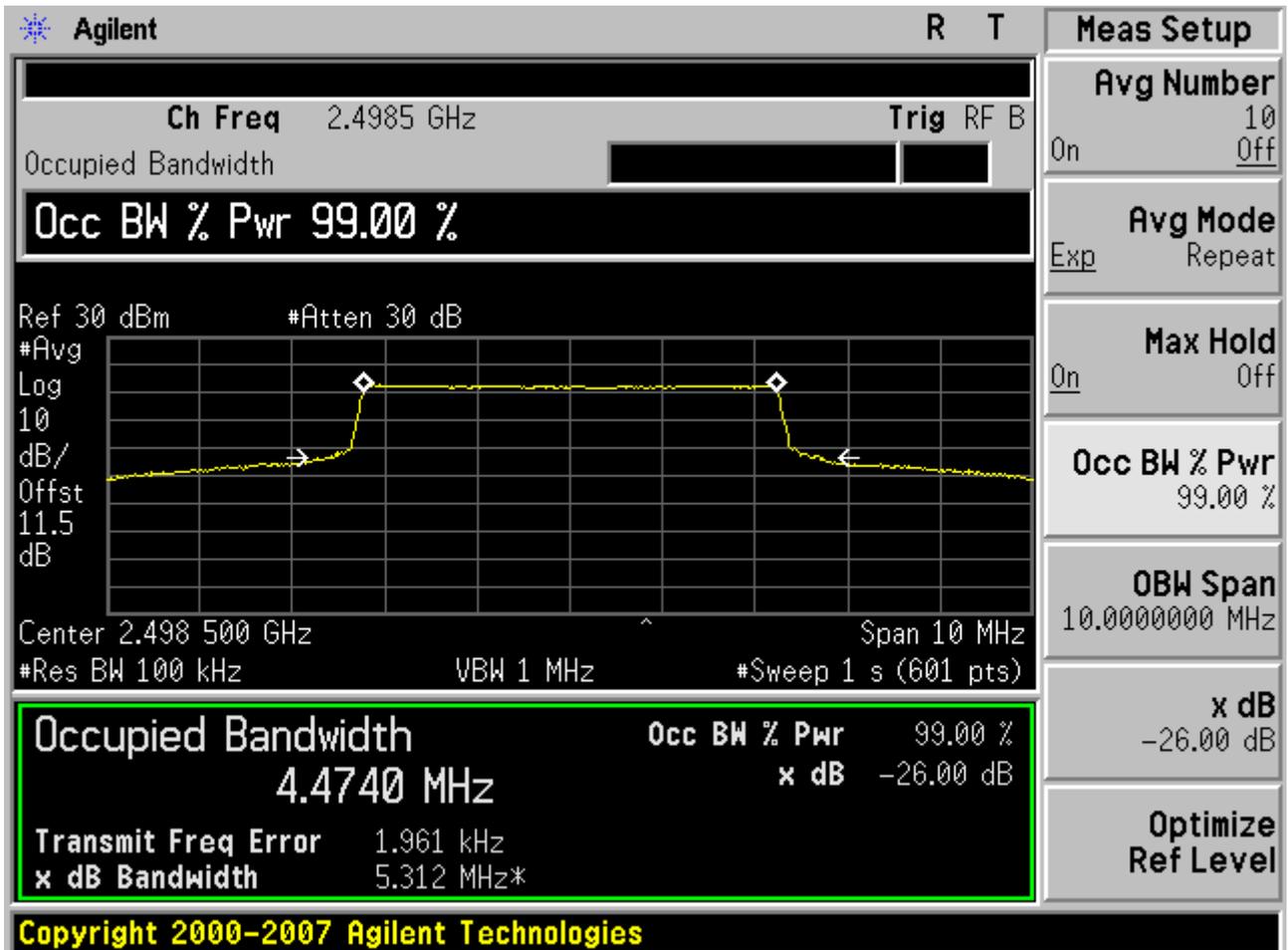


T



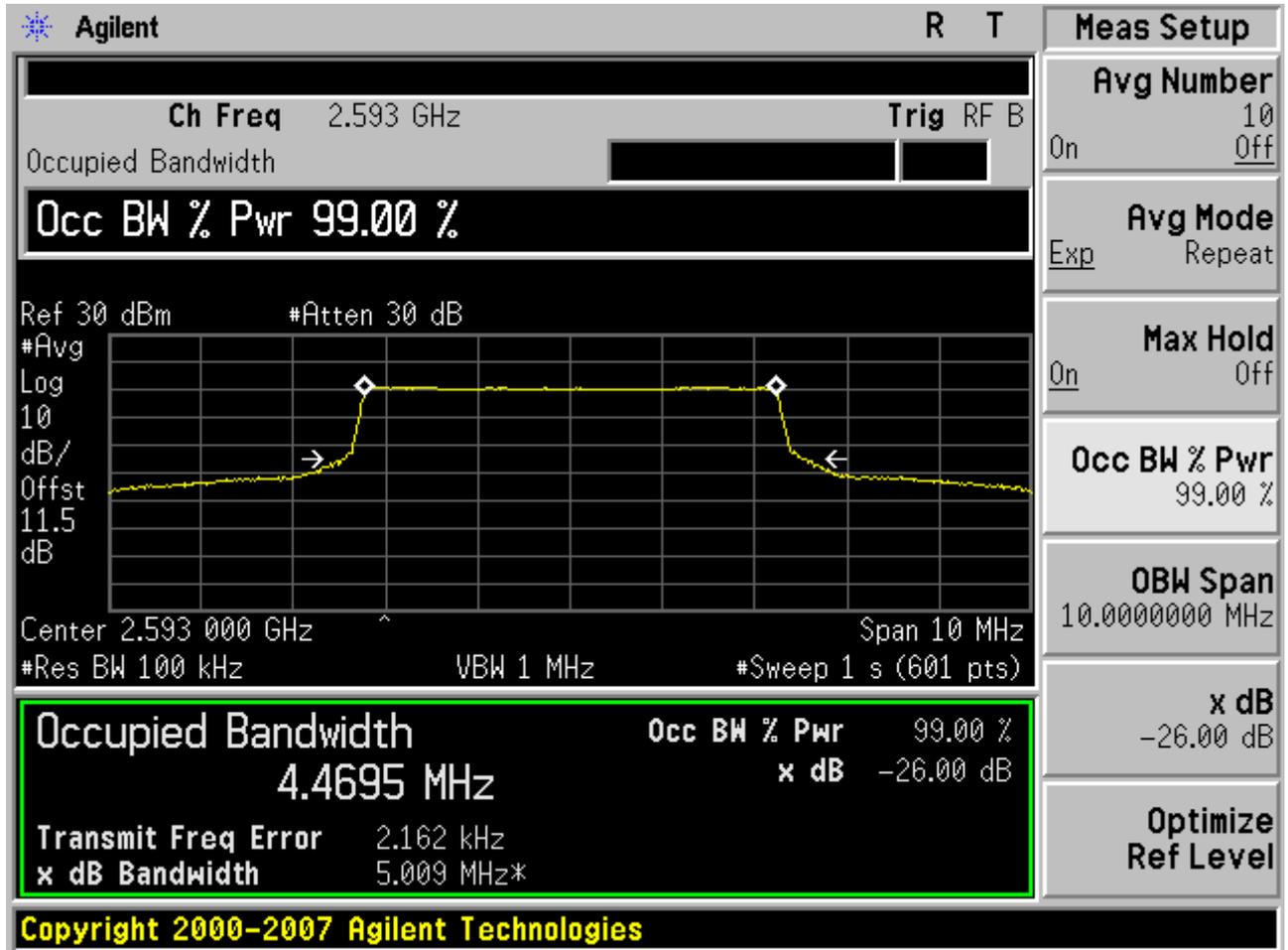


### 3) TM 3 B



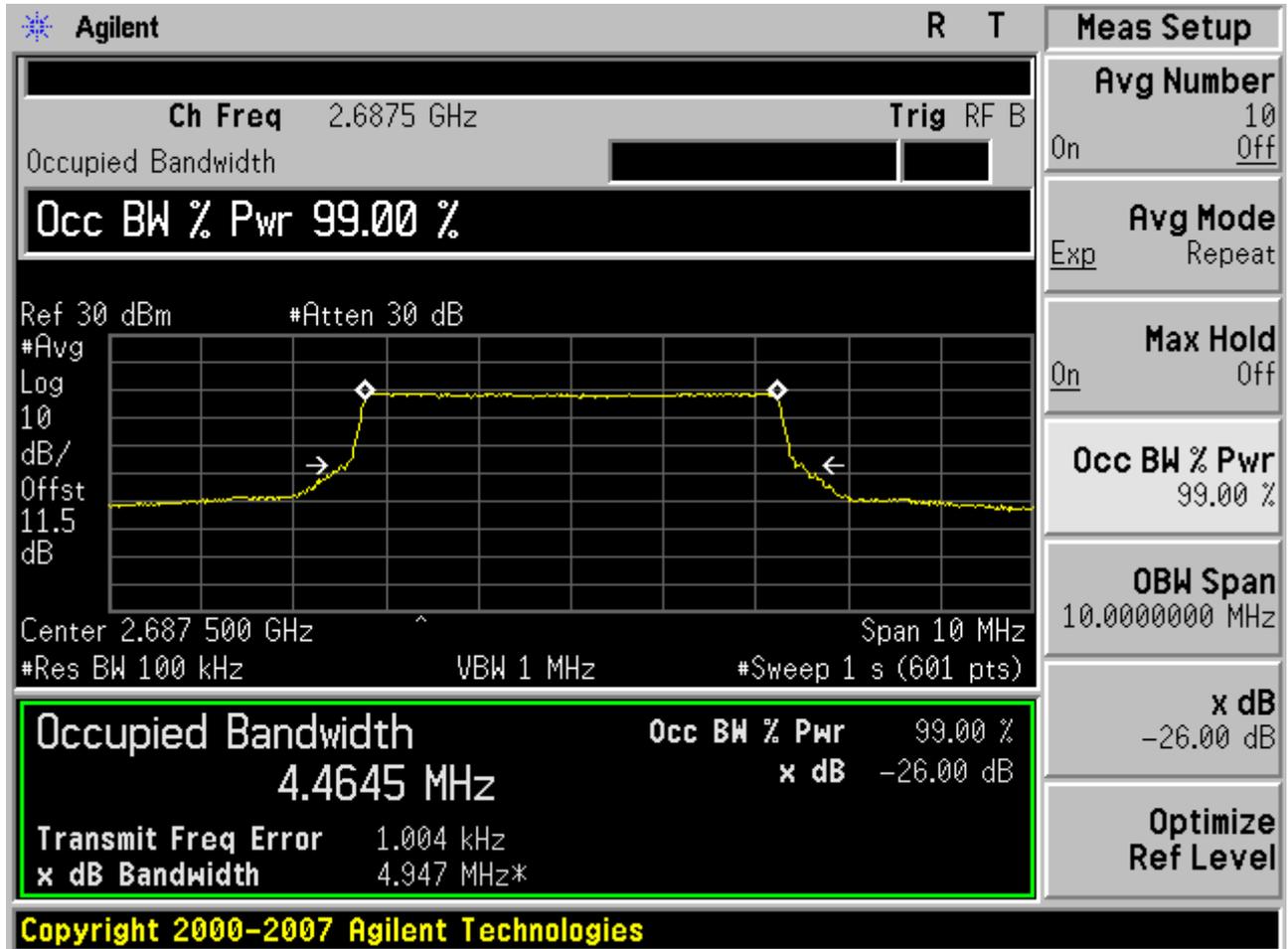


M



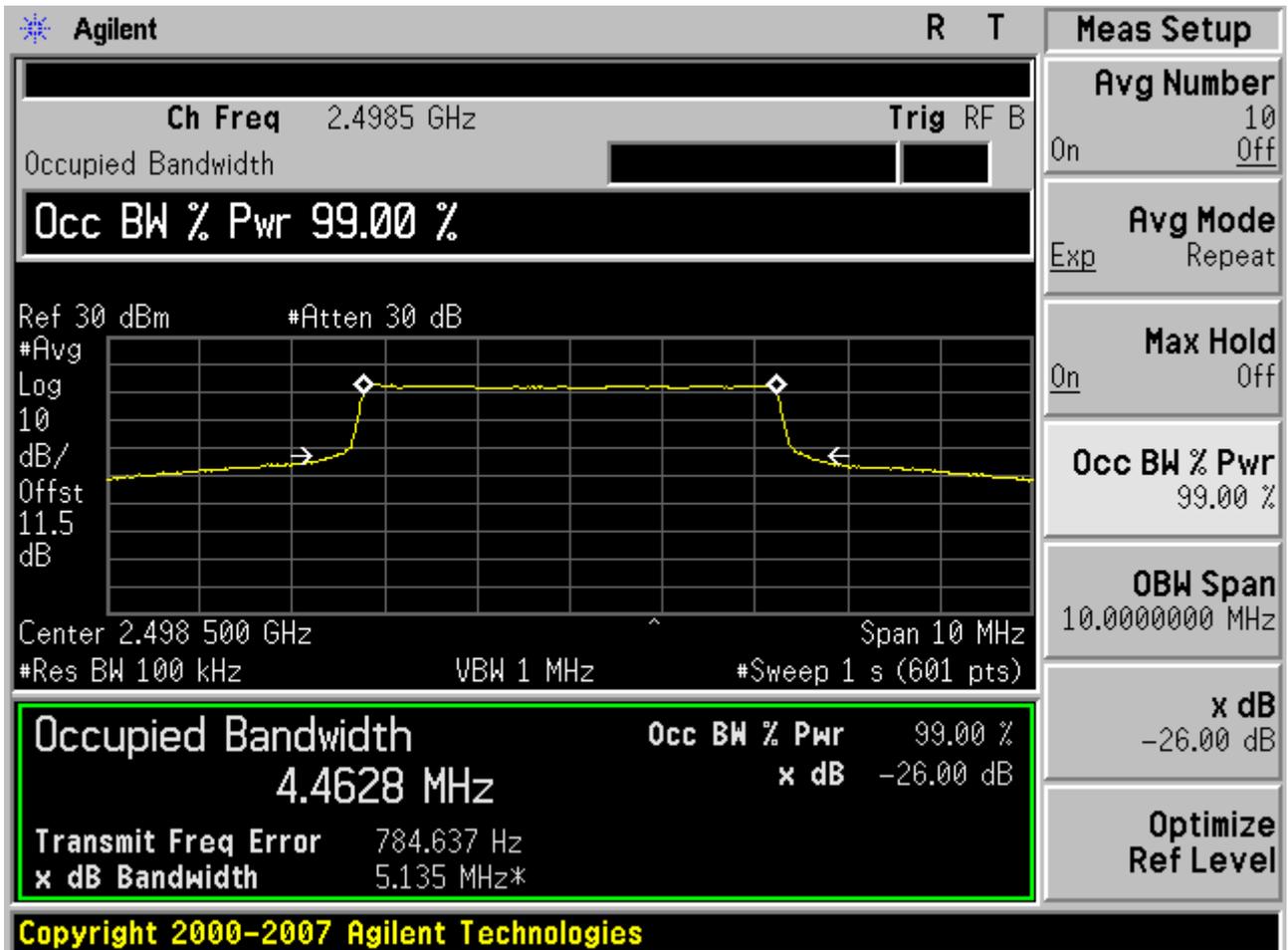


T



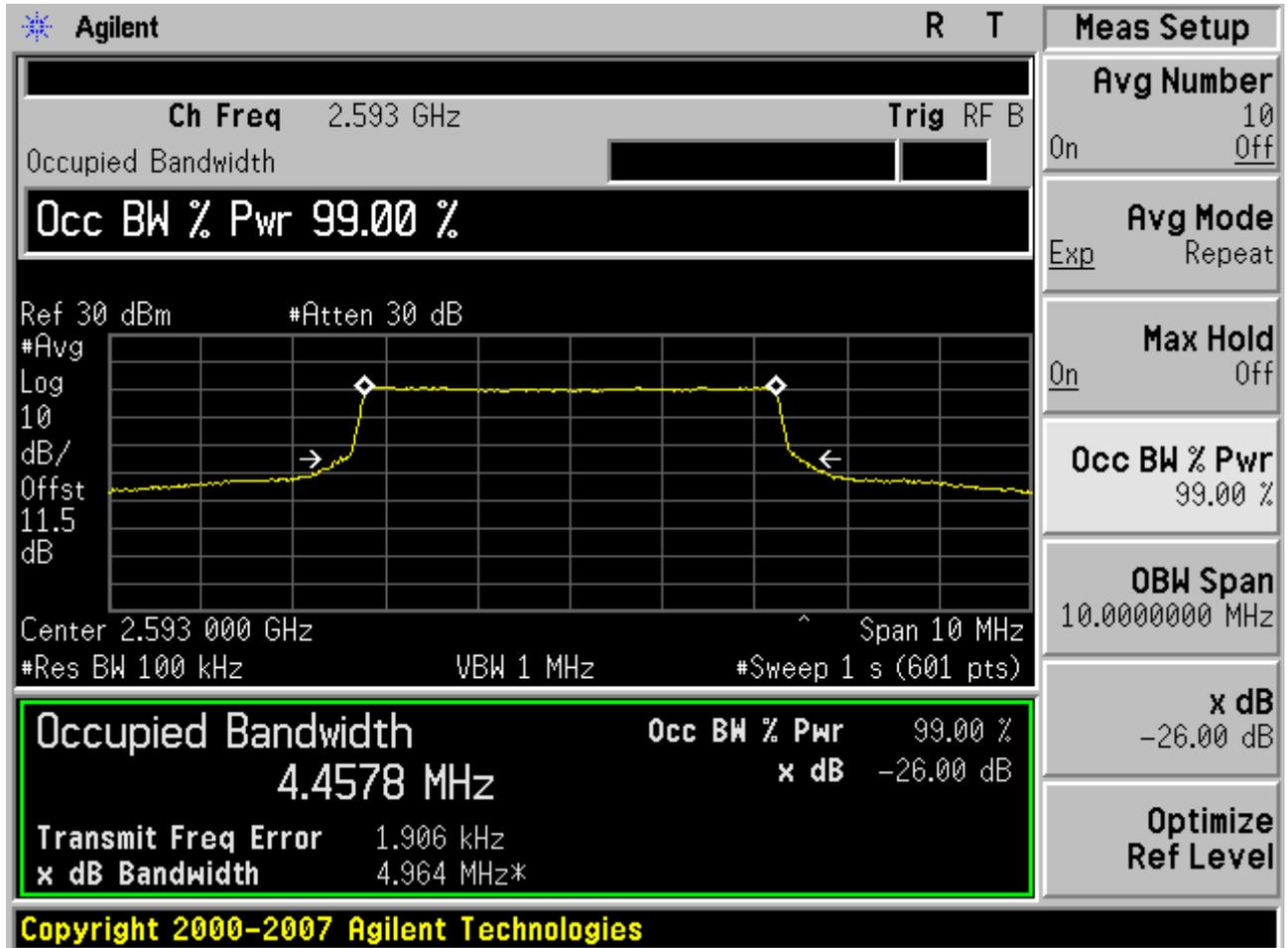


## 4) TM 4 B



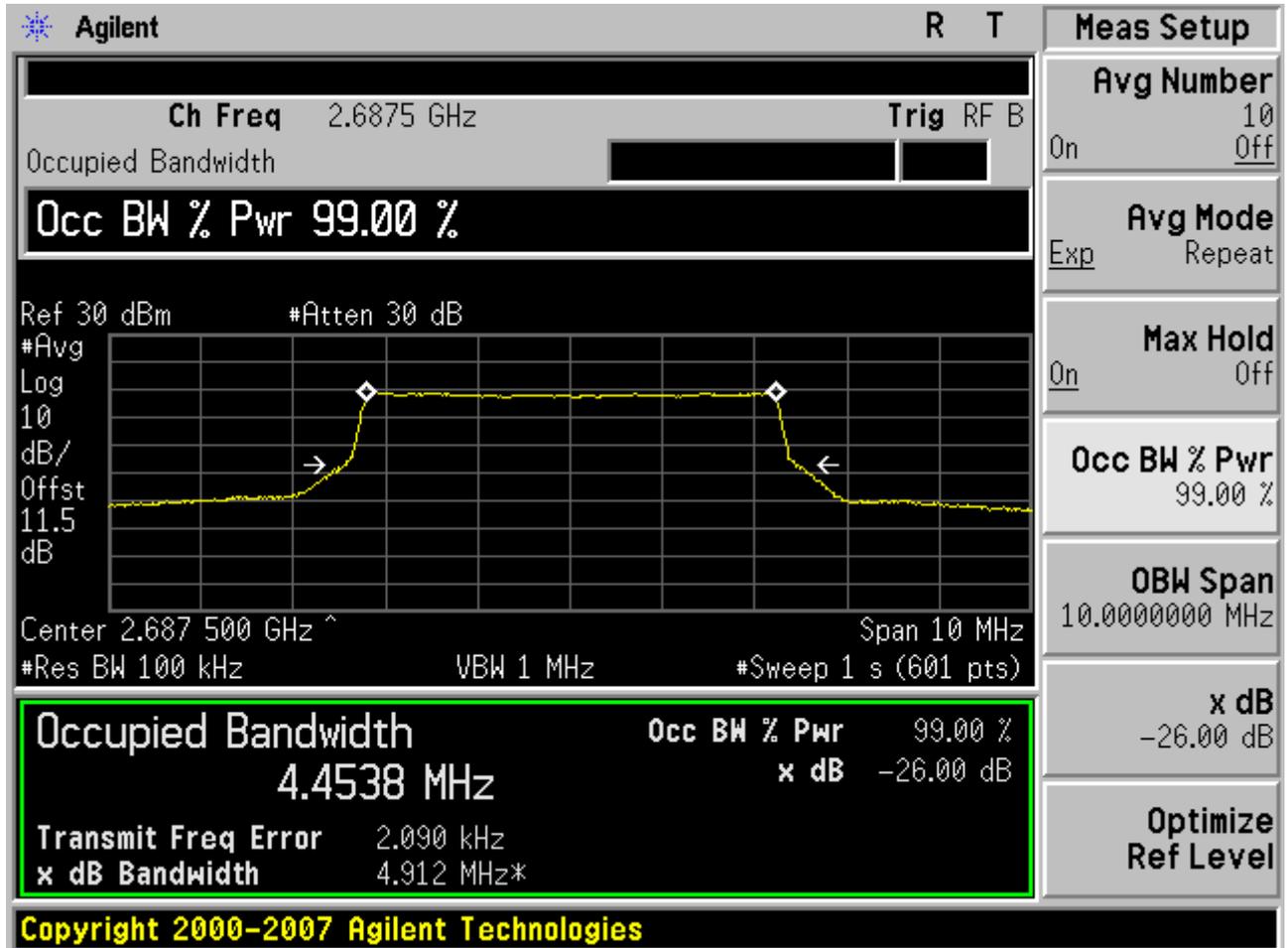


M





T

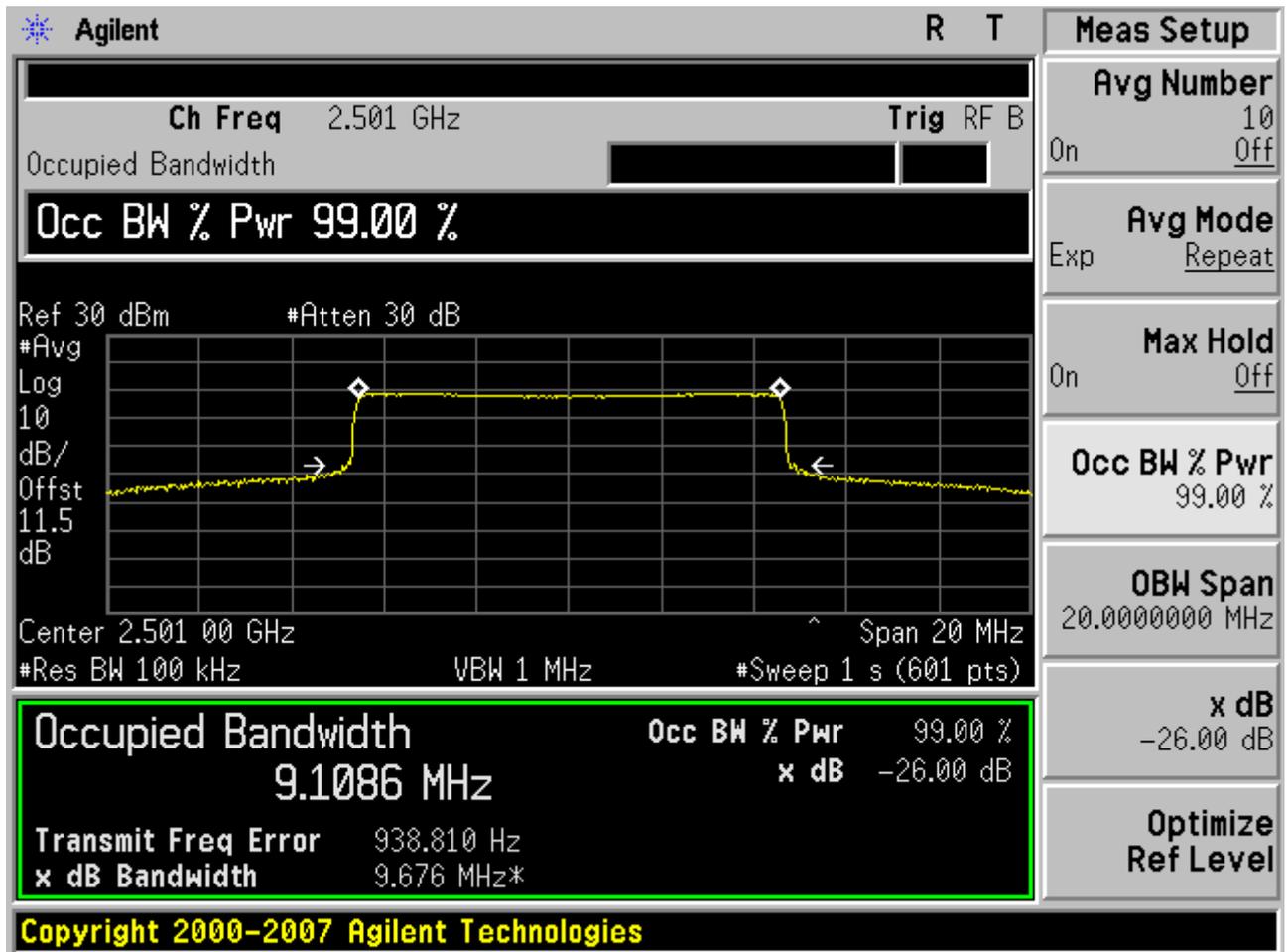




## 2. Channel Bandwidth = 10 MHz

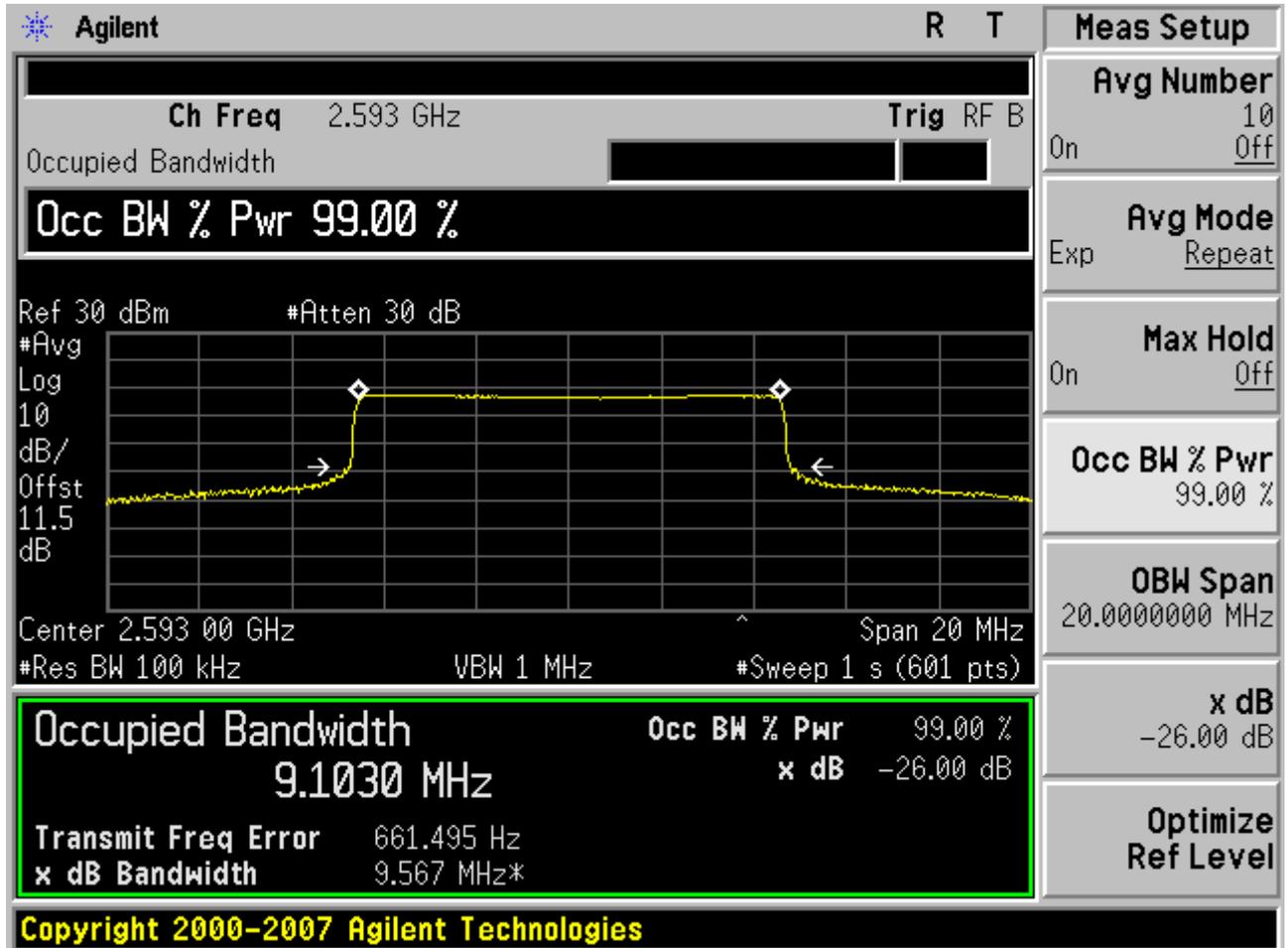
### 1) TM 1

B



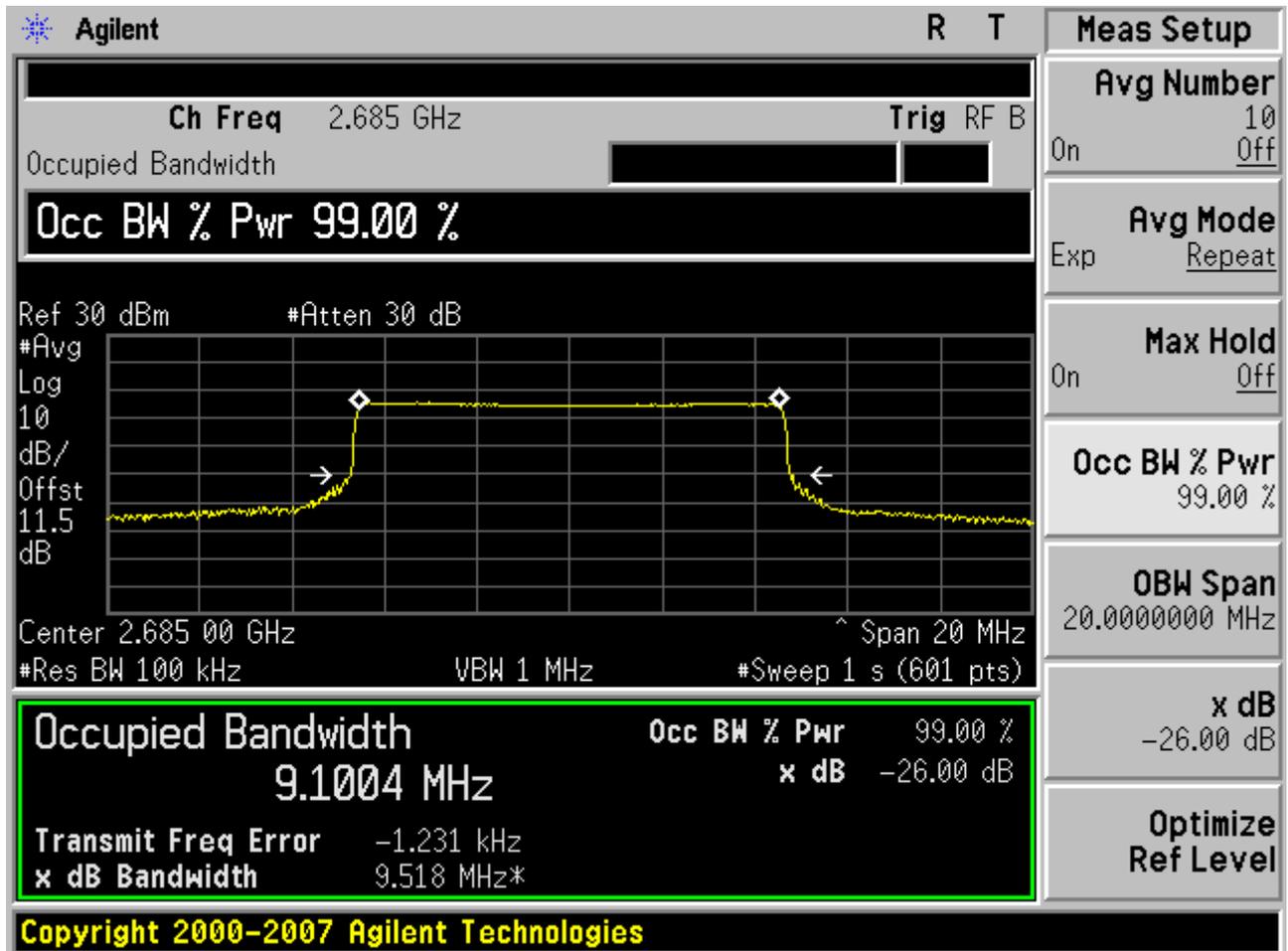


M



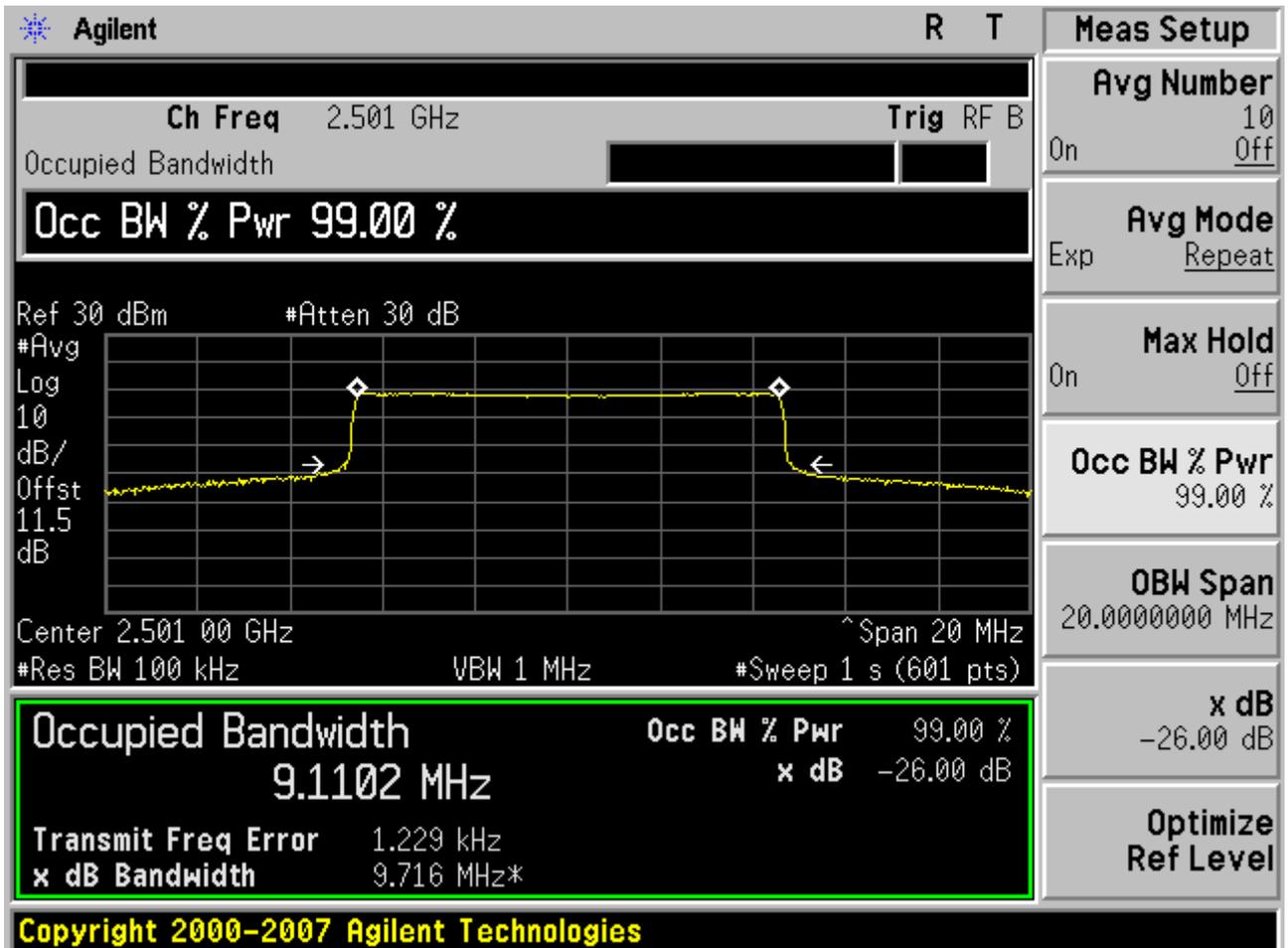


T



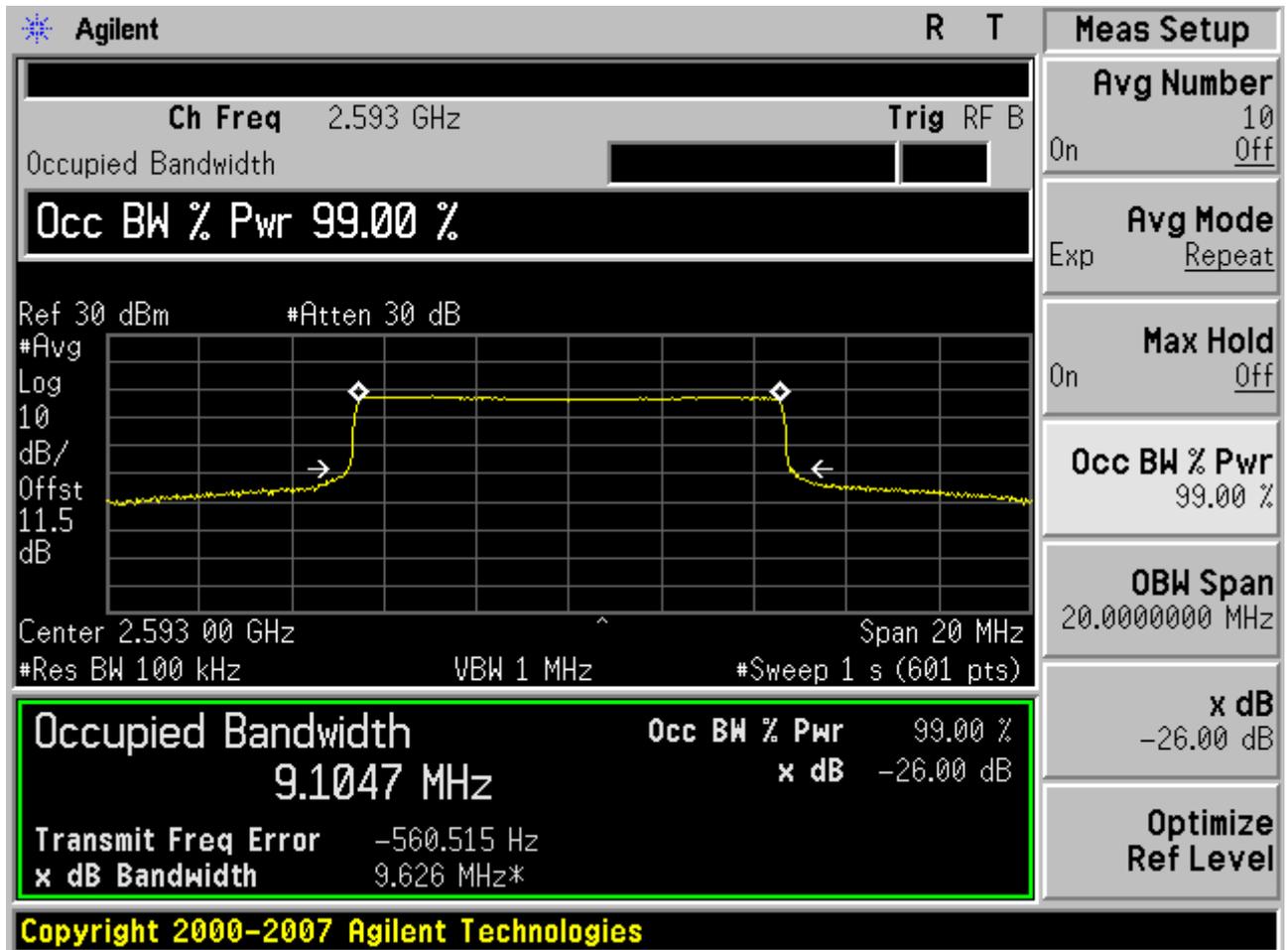


## 2) TM 2 B



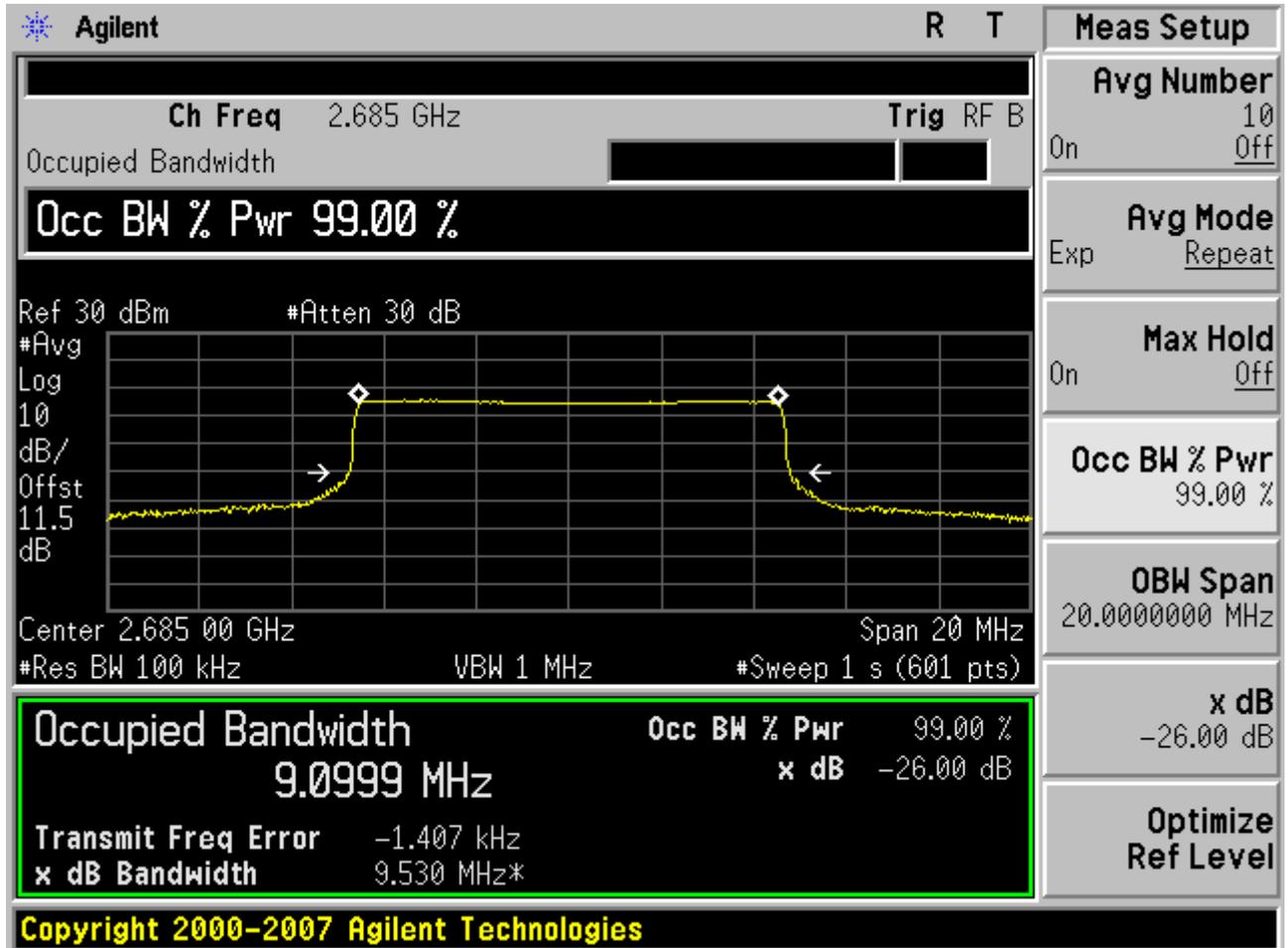


M



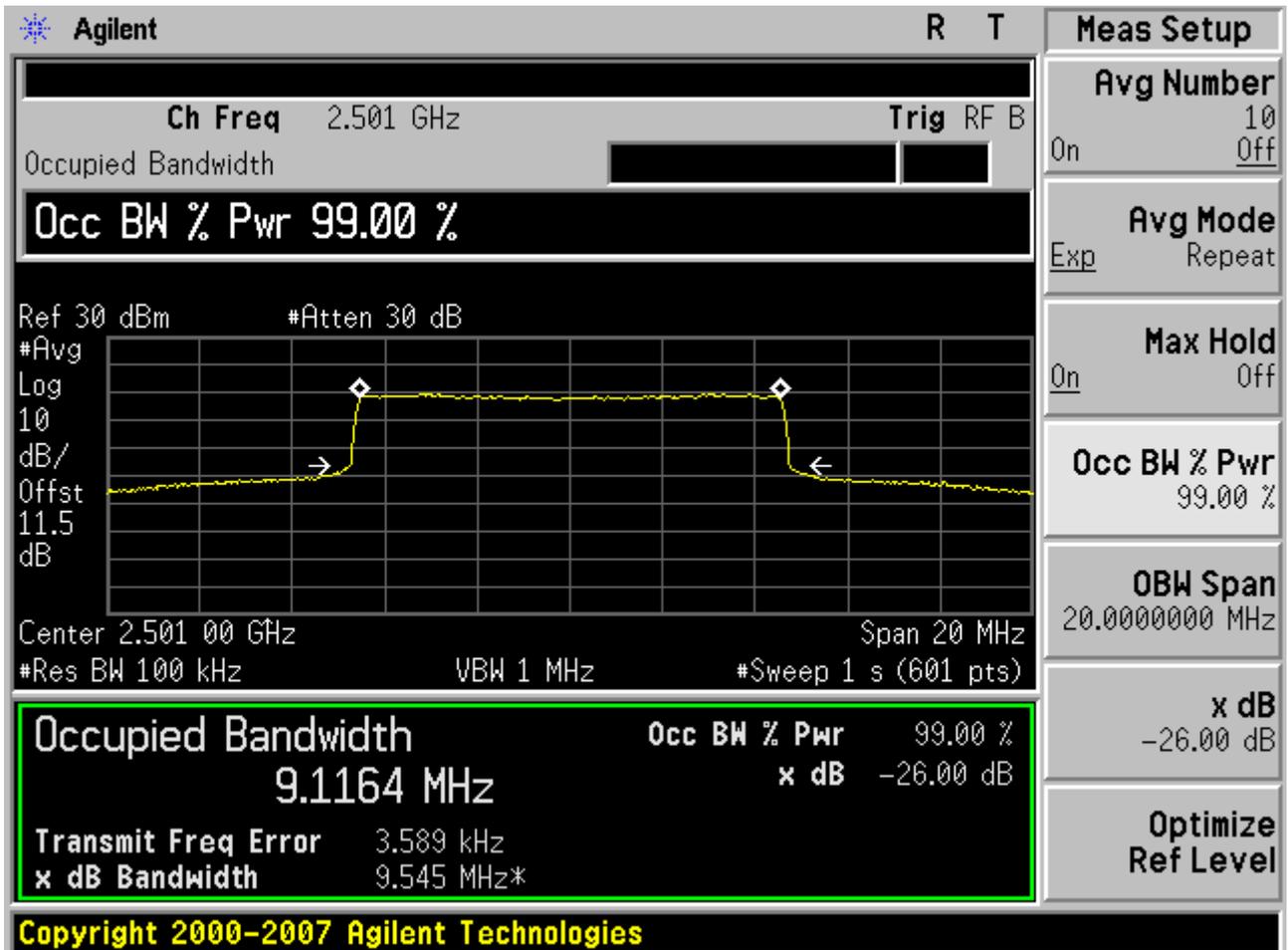


T



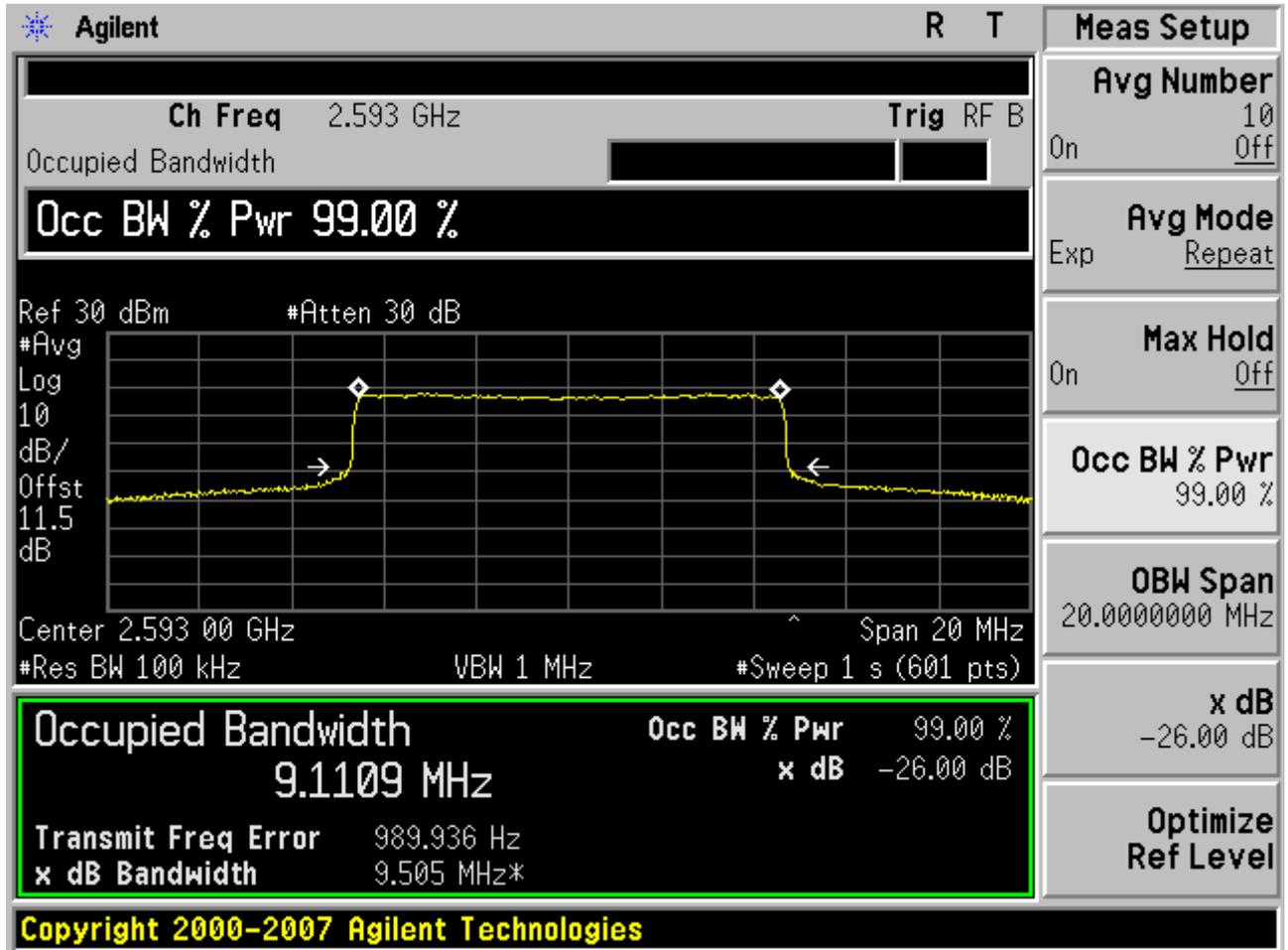


### 3) TM 3 B



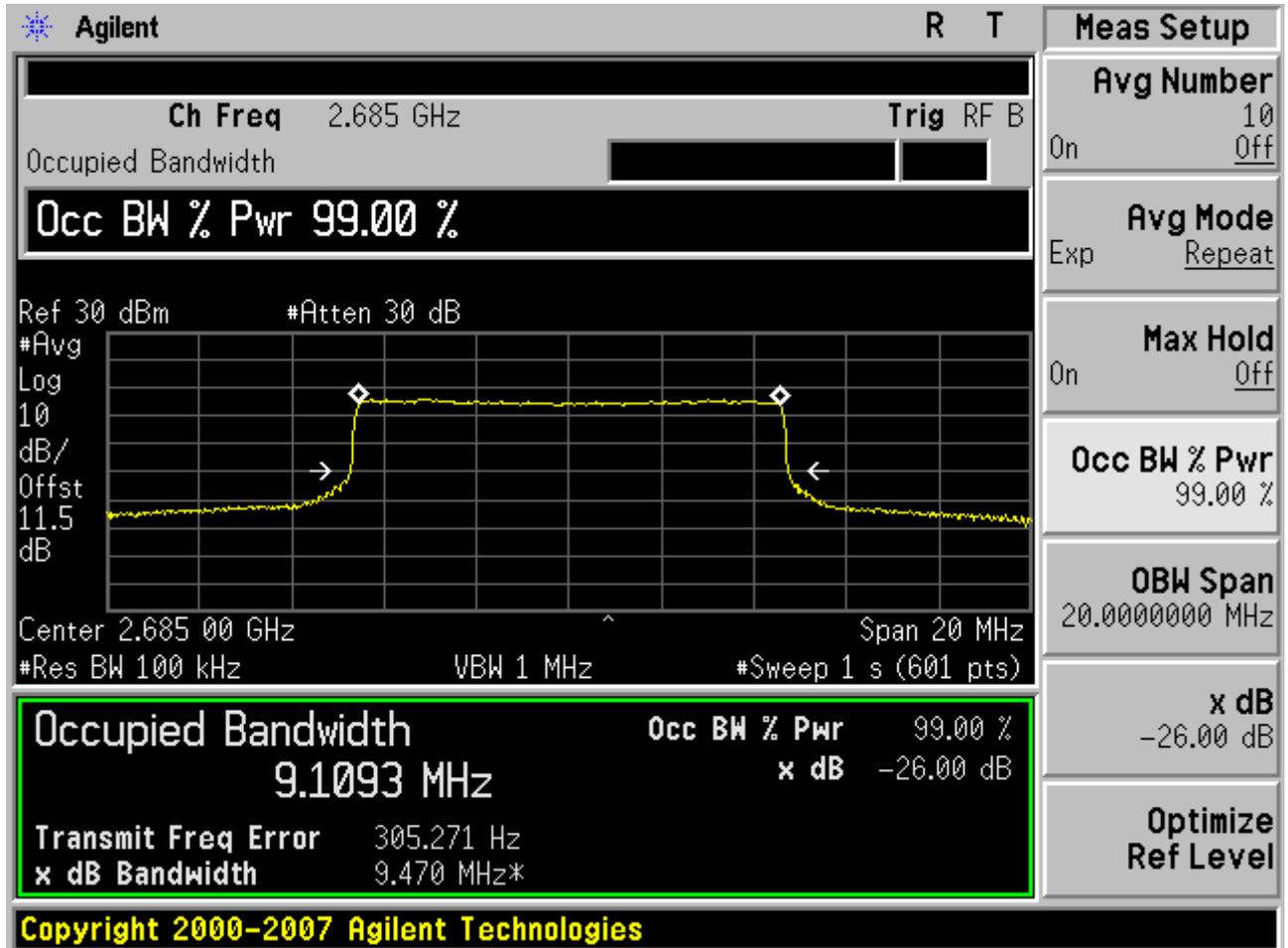


M





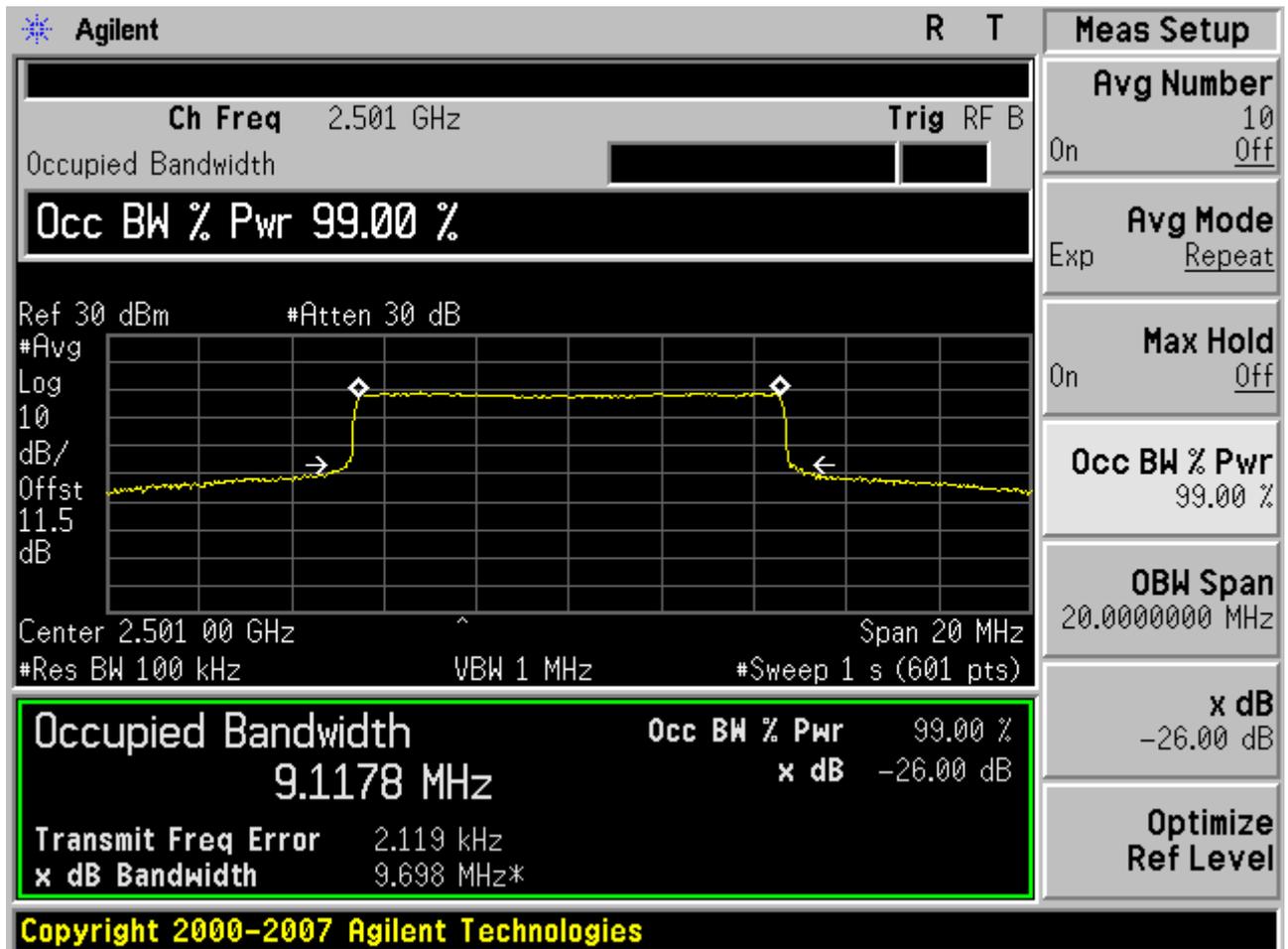
T





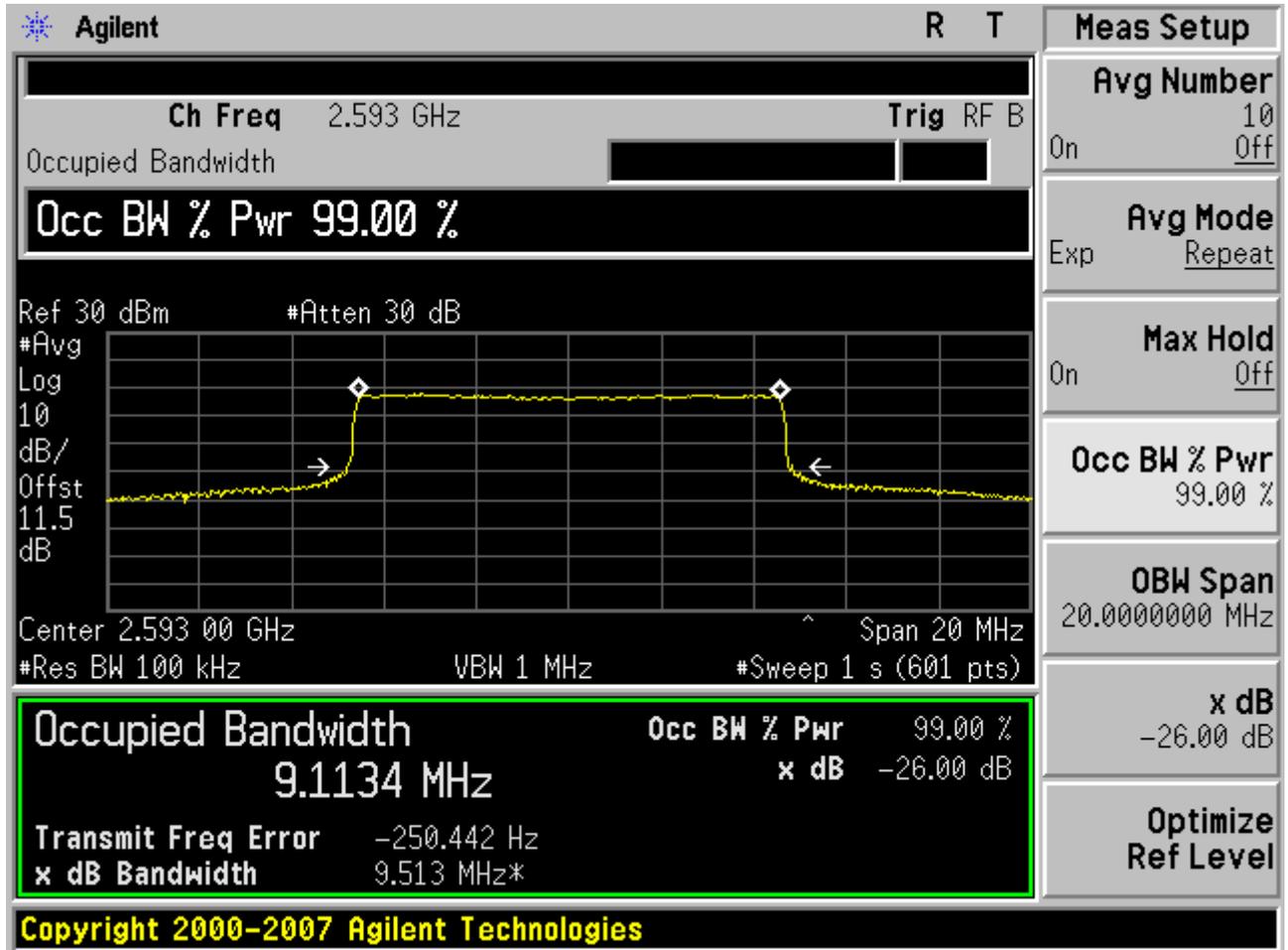
## 4) TM 4

### B



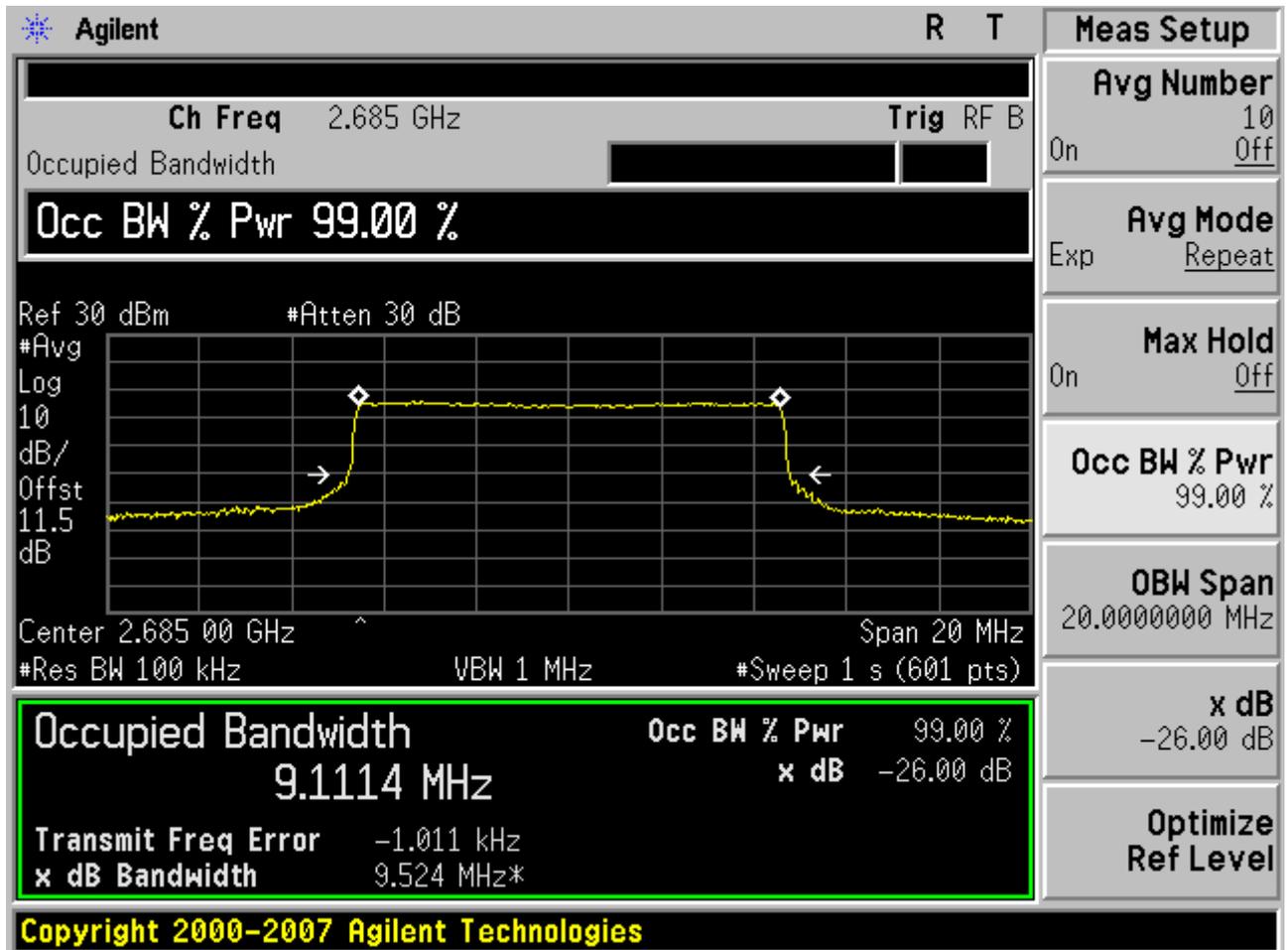


M





T





# Appendix C

## Band Edge Measurement

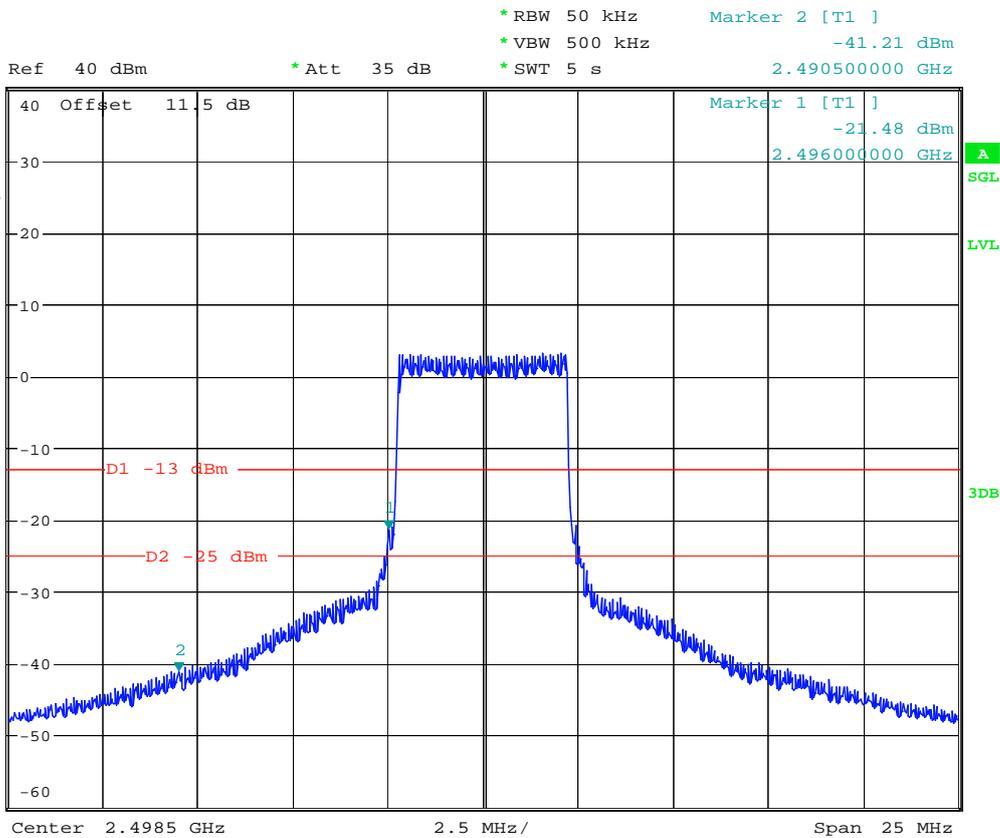
According to FCC part 2.1051 and part 27.53(m)(4) and  
part 27.53(m)(6)



# 1. Channel Bandwidth = 5 MHz

## 1) TM 1

### B

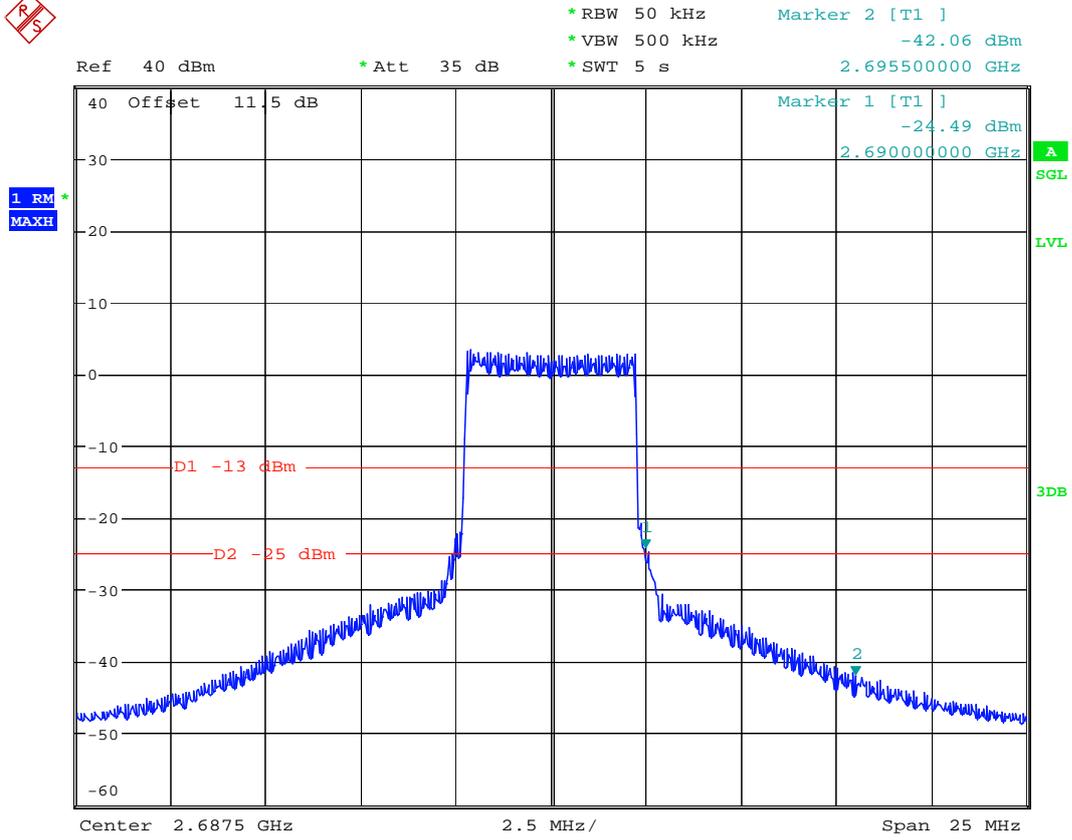


PO

Date: 18.MAR.2011 15:12:58



T

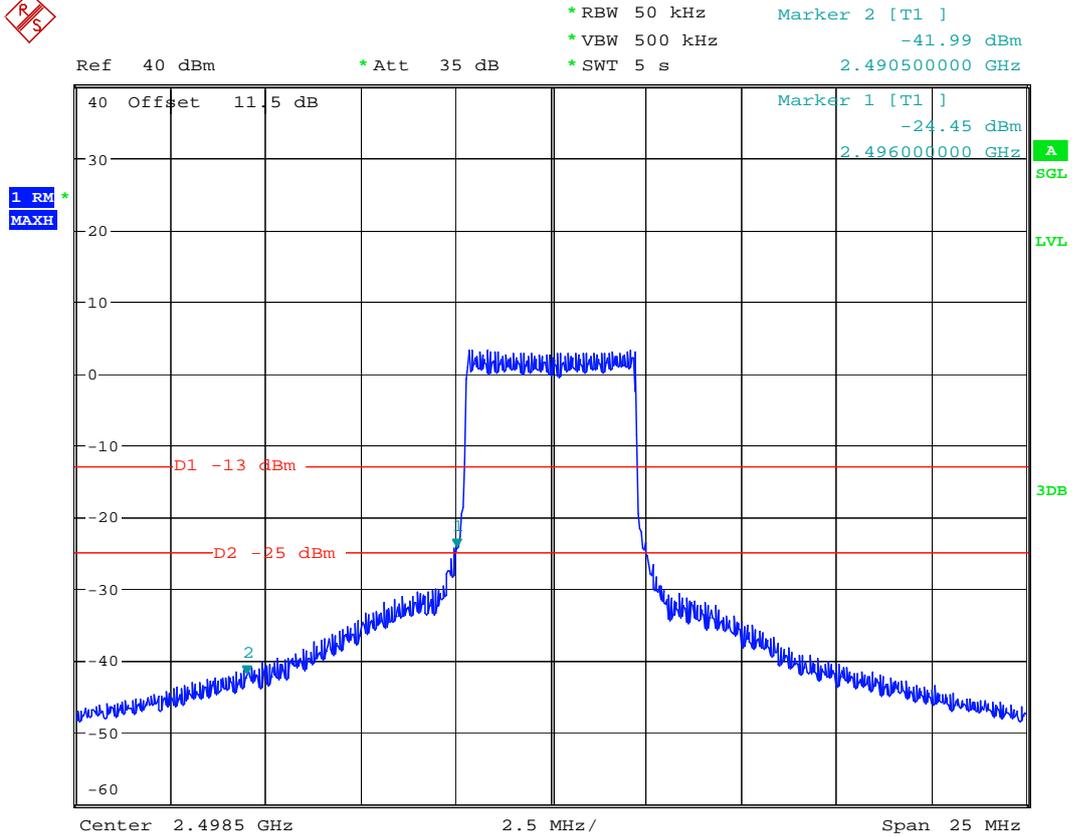


PO

Date: 18.MAR.2011 15:13:40



## 2) TM 2 B

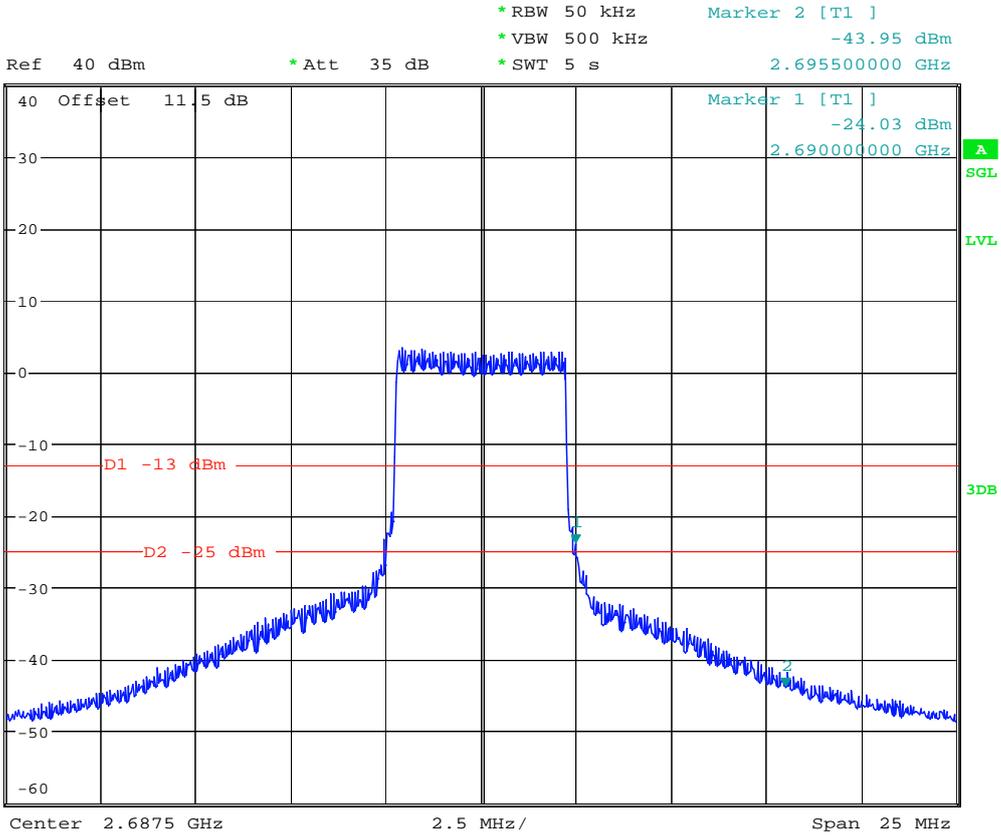


PO

Date: 18.MAR.2011 15:14:21



# T

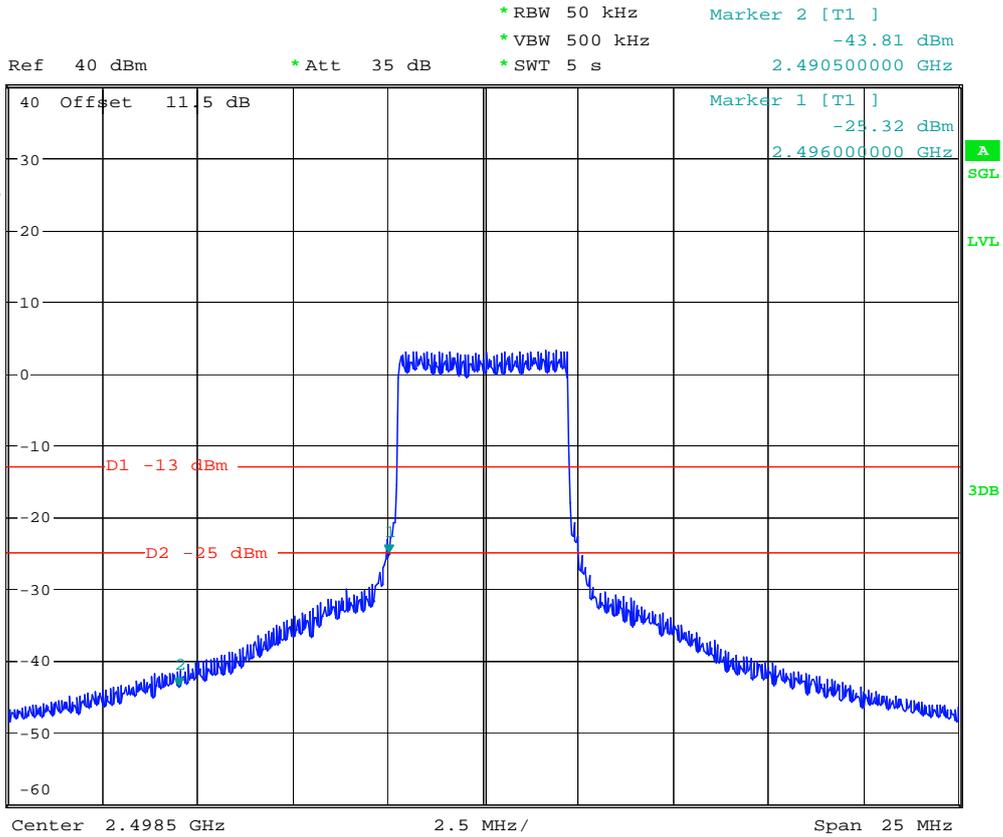


PO

Date: 18.MAR.2011 15:15:02



### 3) TM 3 B

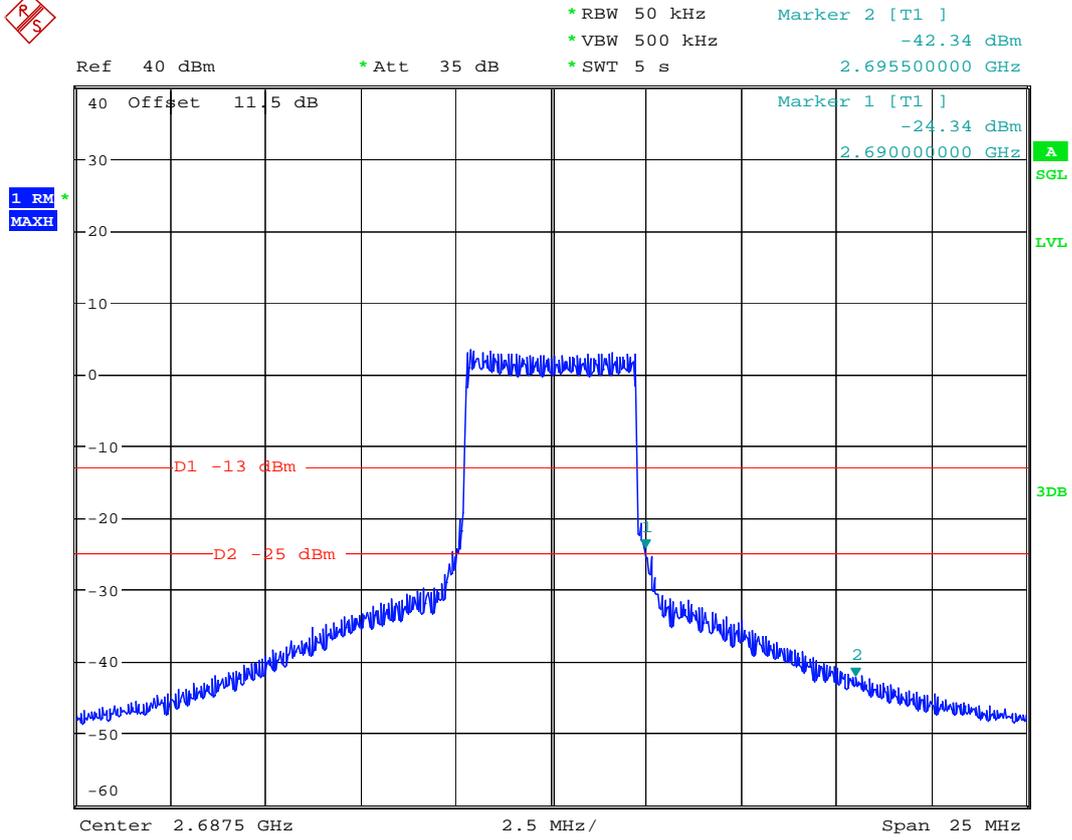


PO

Date: 18.MAR.2011 15:15:43



# T

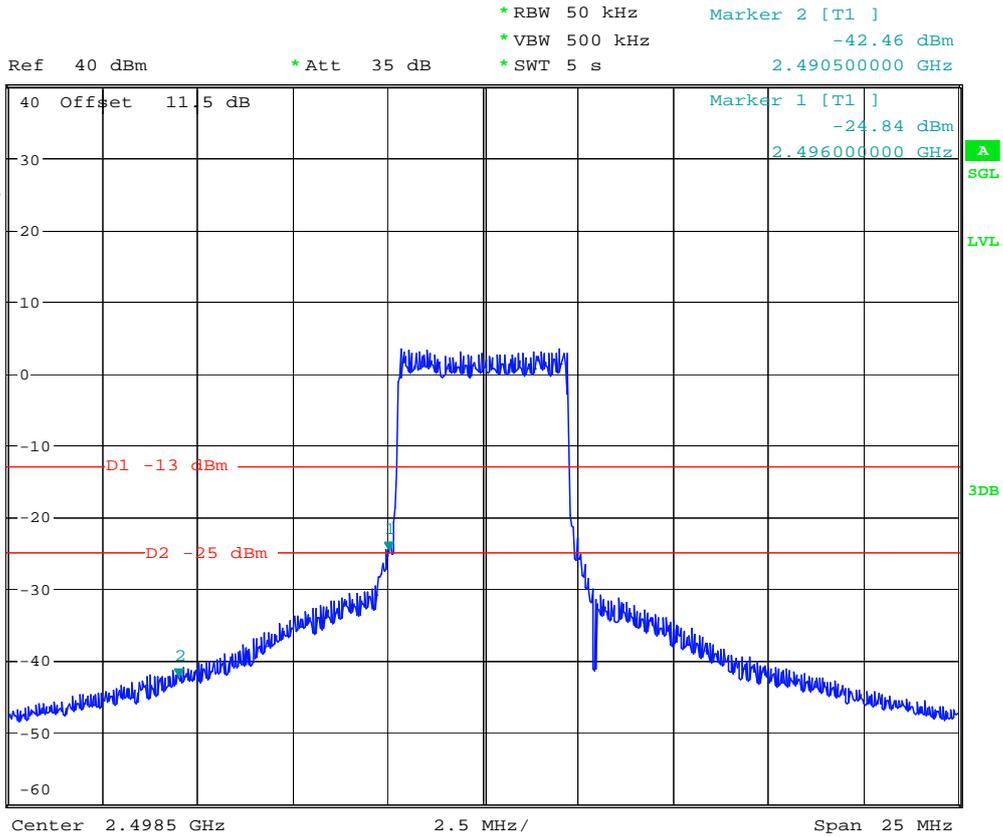


PO

Date: 18.MAR.2011 15:16:24



# 4) TM 4 B

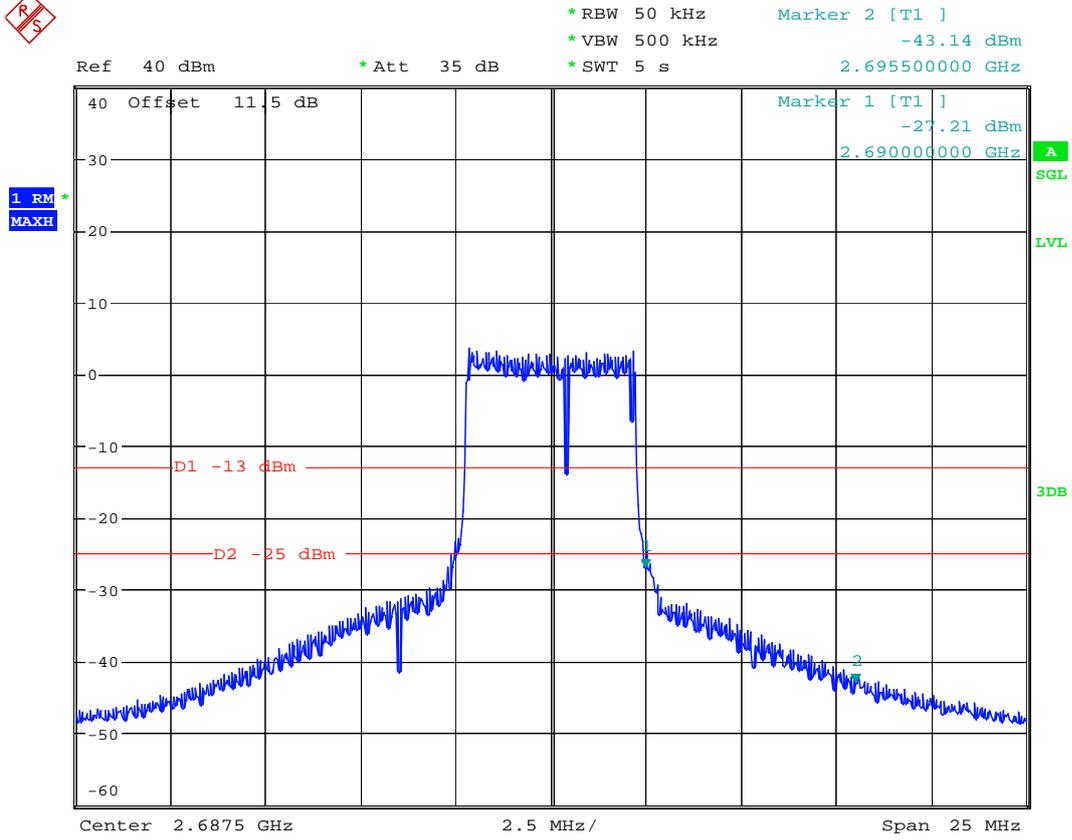


PO

Date: 18.MAR.2011 15:17:05



# T



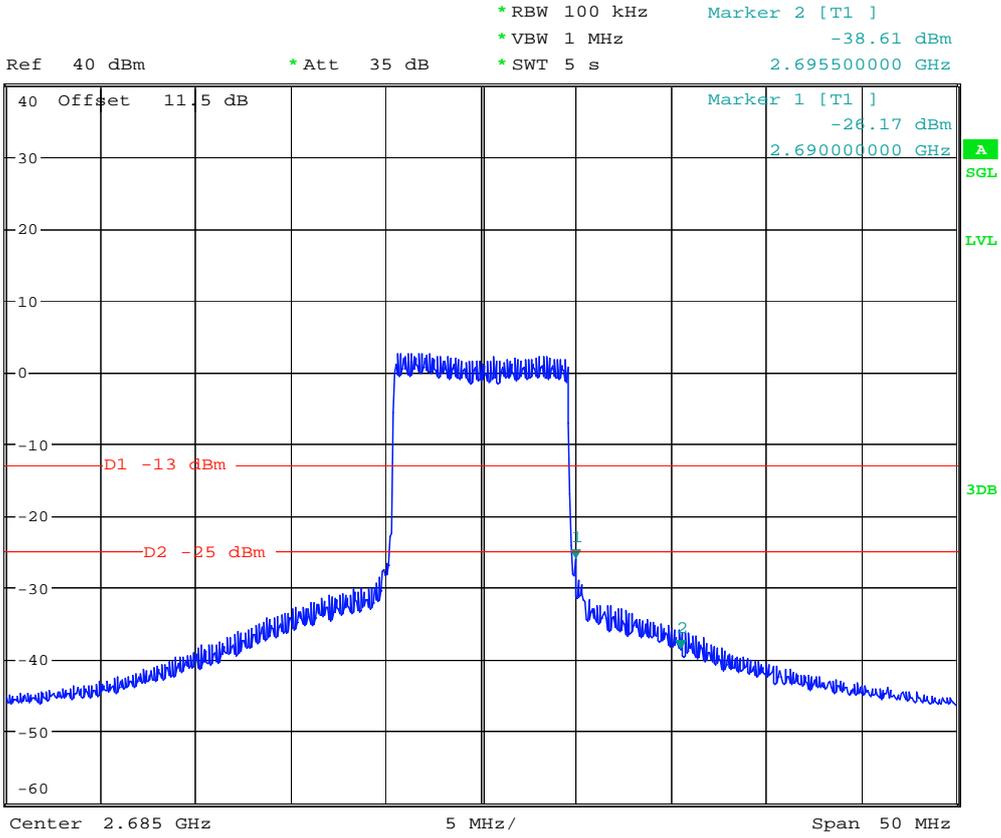
PO

Date: 18.MAR.2011 15:17:46





# T



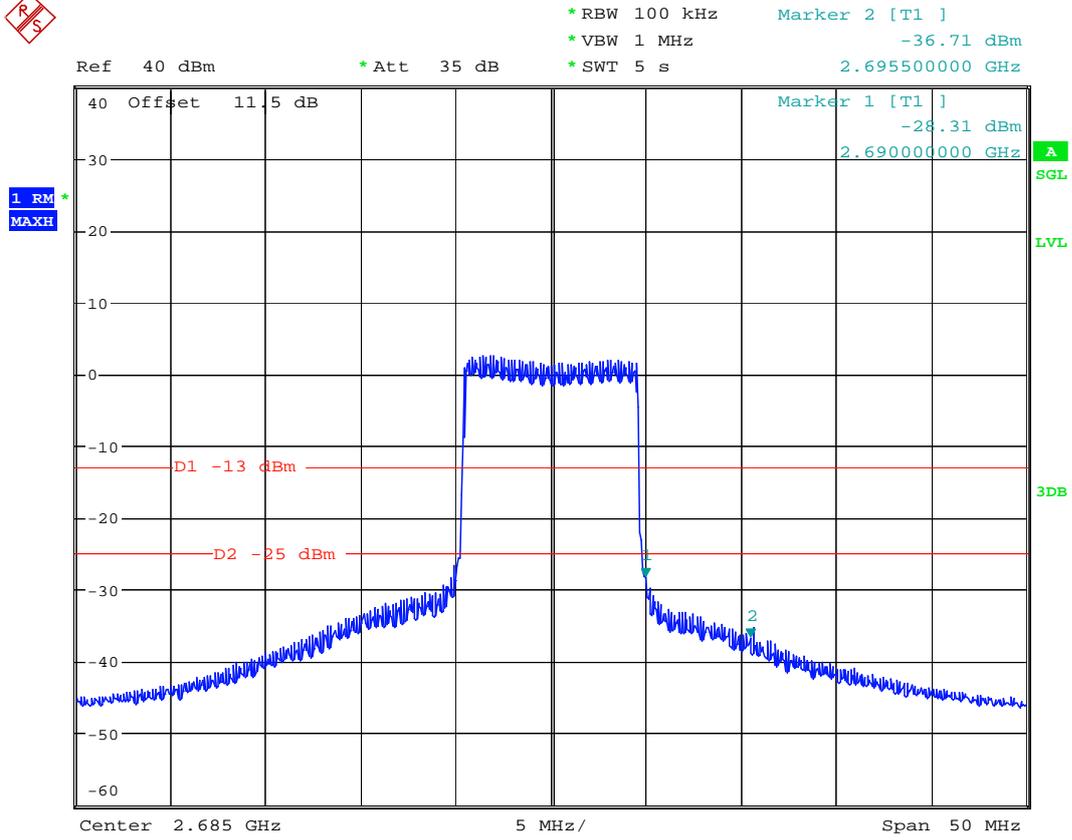
PO

Date: 18.MAR.2011 18:15:12





T



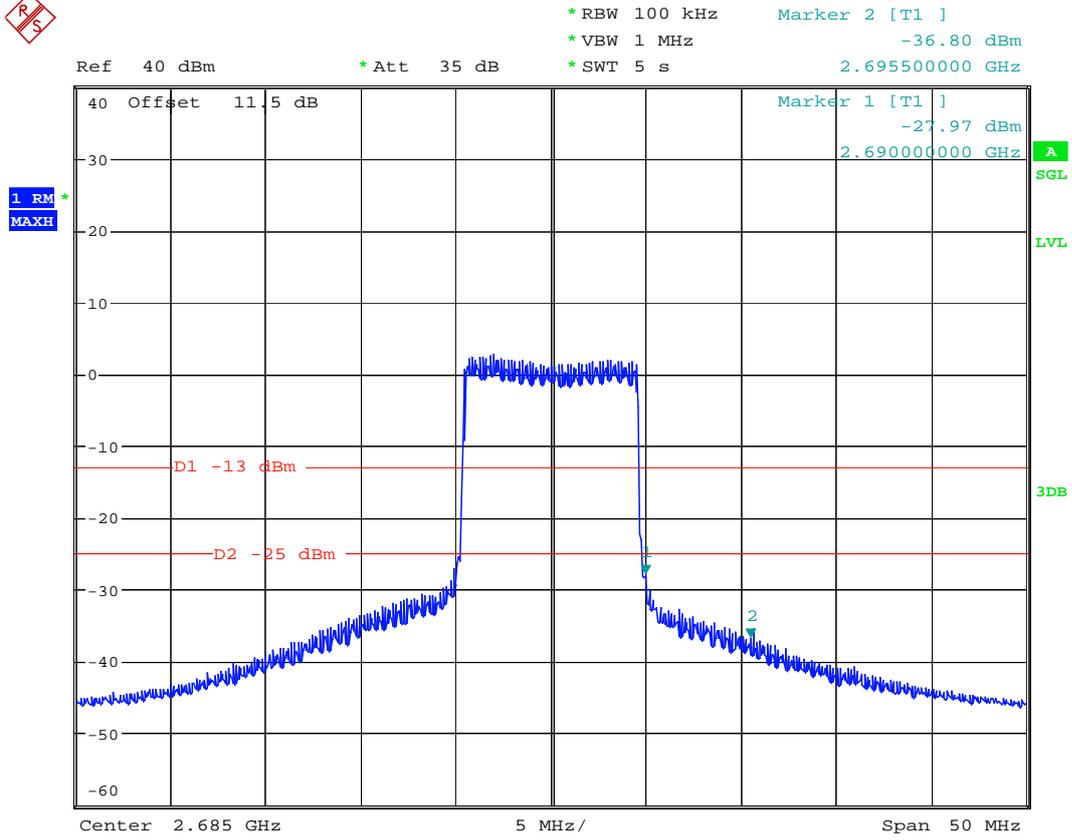
PO

Date: 18.MAR.2011 18:16:34





# T



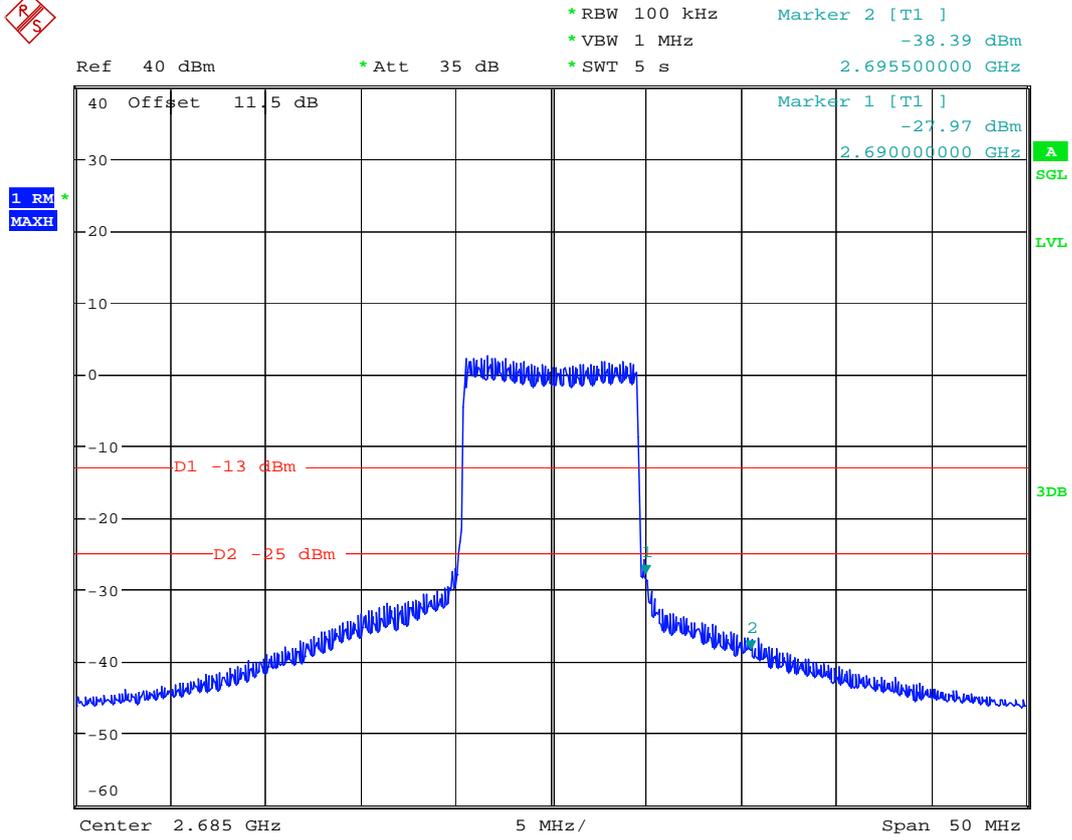
PO

Date: 18.MAR.2011 18:17:56





T



PO

Date: 18.MAR.2011 18:19:18



## Appendix D

# Spurious Emission at Antenna Terminal Measurement

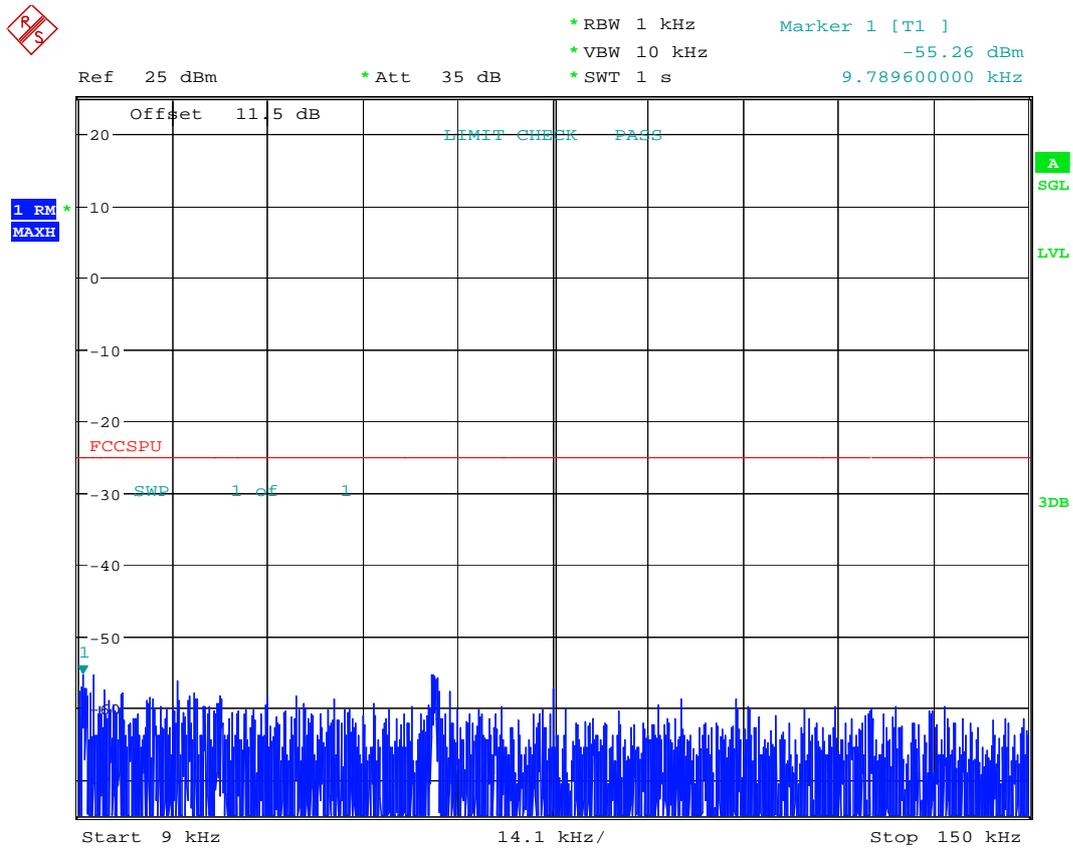
According to FCC part 2.1051 and part 27.53(m)(4) and  
part 27.53(m)(6)



# 1. Channel Bandwidth = 5 MHz

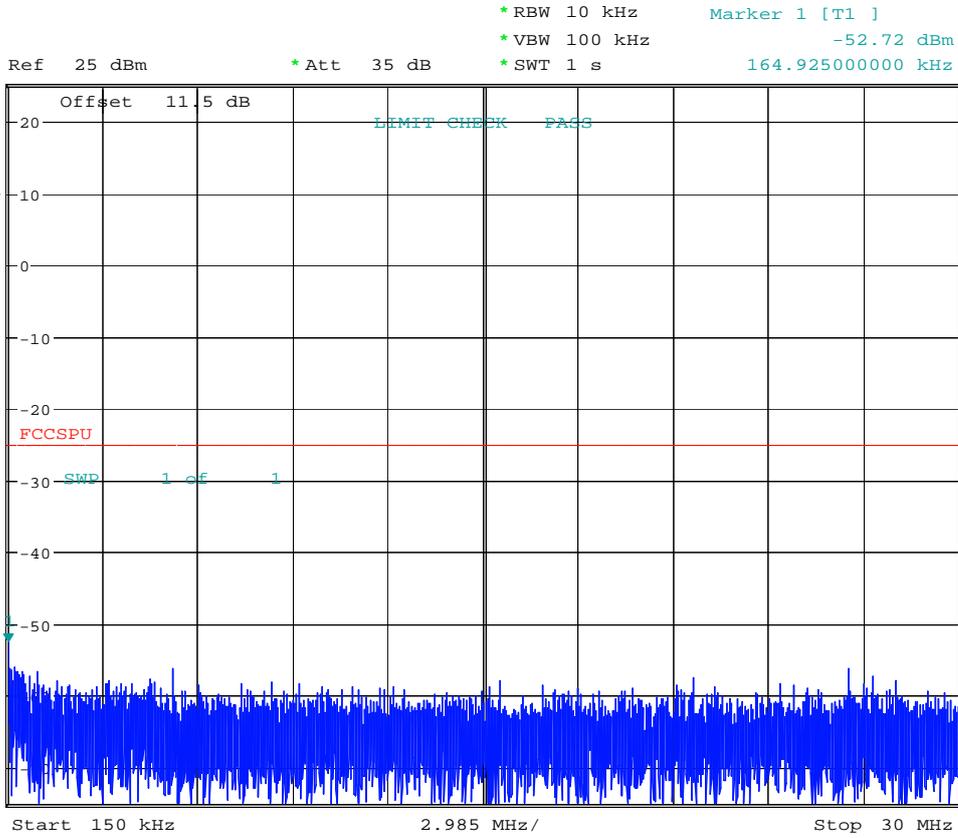
## 1) TM 1

### B



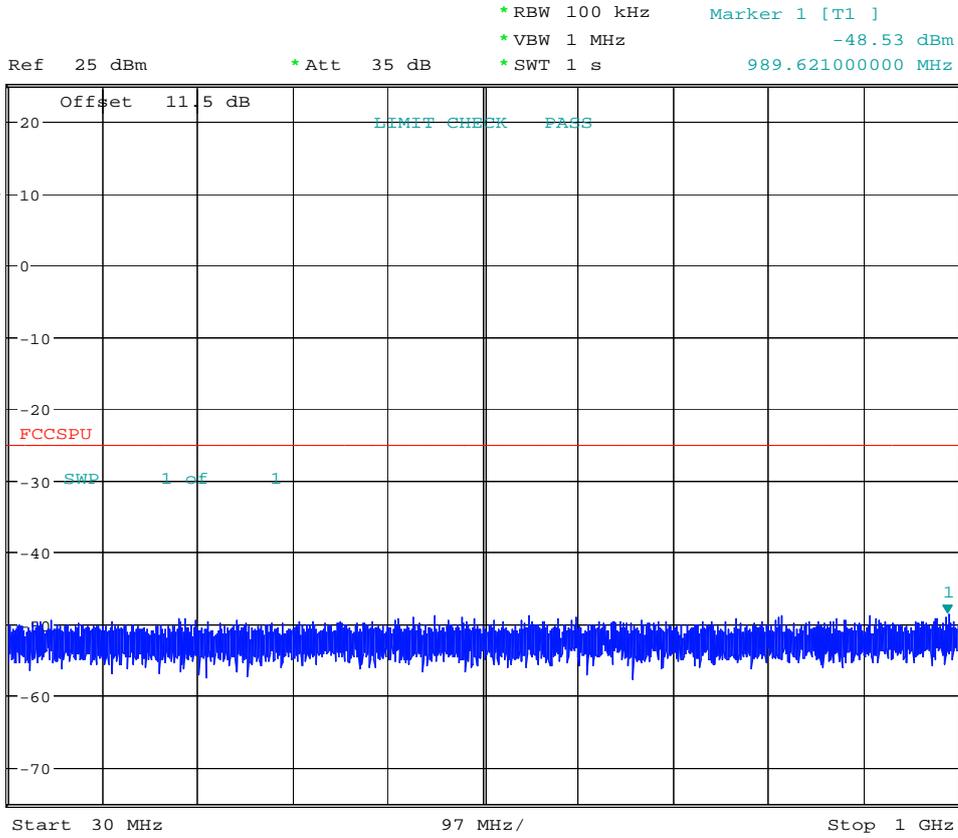
PO

Date: 18.MAR.2011 15:20:10



PO

Date: 18.MAR.2011 15:20:15

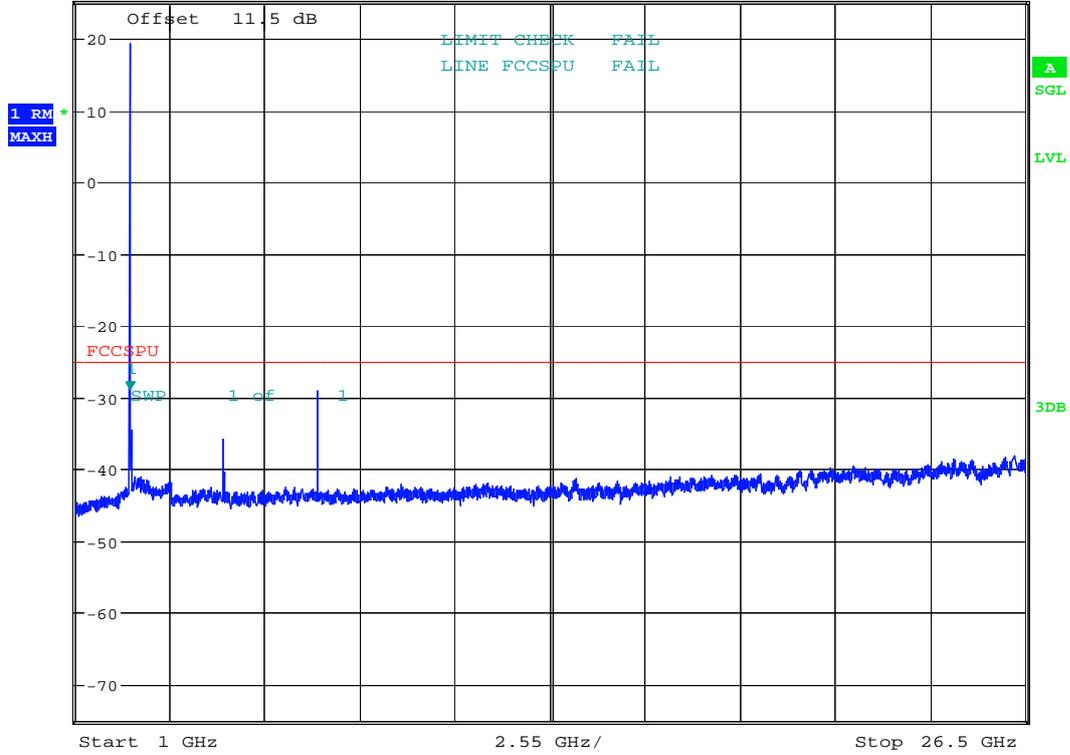


PO

Date: 18.MAR.2011 15:20:19



\* RBW 1 MHz                      Marker 1 [T1 ]  
 \* VBW 3 MHz                      -29.01 dBm  
 \* SWT 1 s                          2.486650000 GHz  
 Ref 25 dBm                      \* Att 35 dB



PO

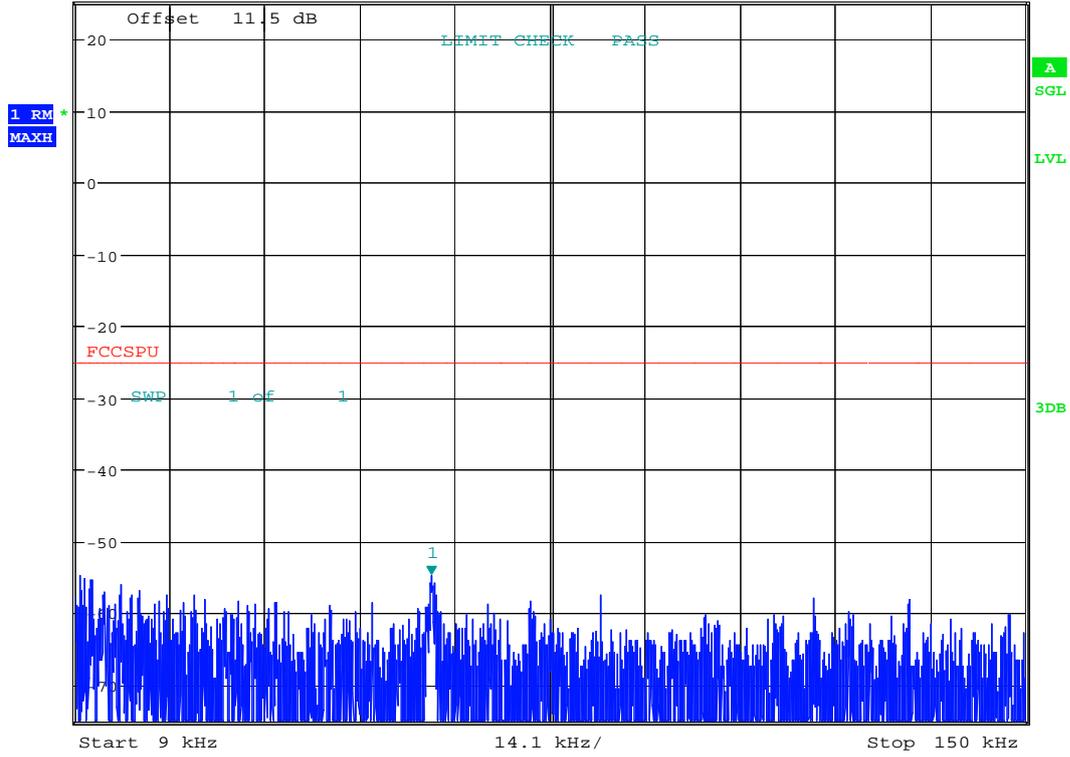
Date: 18.MAR.2011 15:20:25



# M



\*RBW 1 kHz                      Marker 1 [T1 ]  
 \*VBW 10 kHz                    -54.71 dBm  
 \*SWT 1 s                         61.973700000 kHz  
 Ref 25 dBm                      \*Att 35 dB

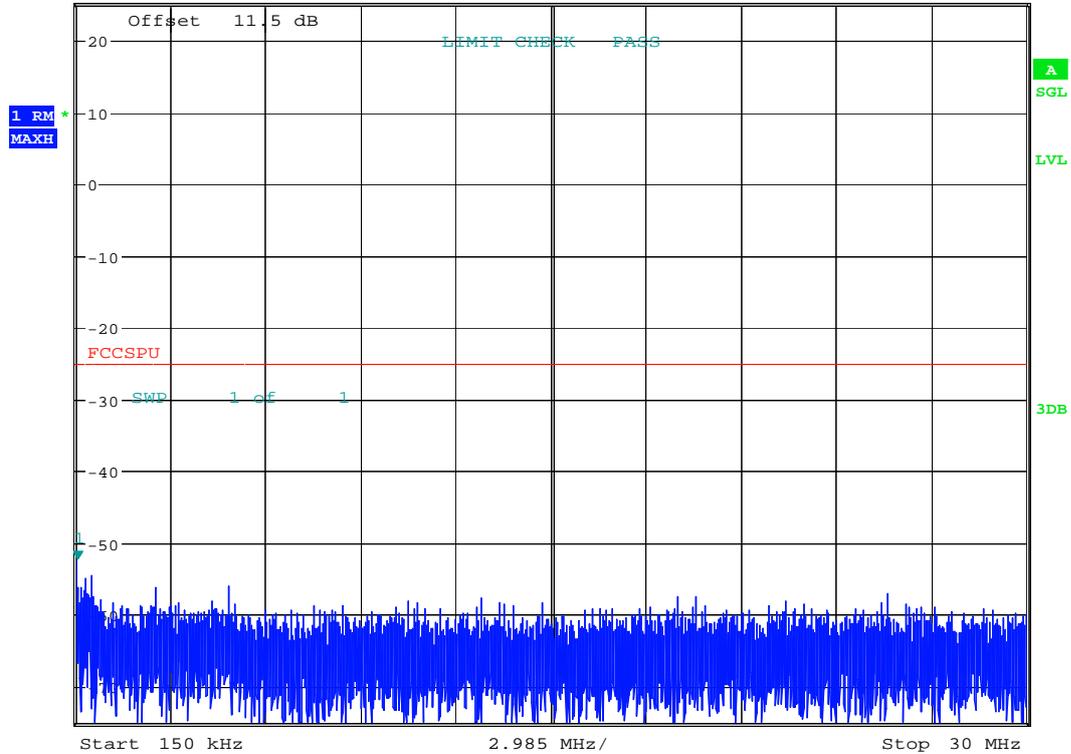


PO

Date: 18.MAR.2011 15:19:17

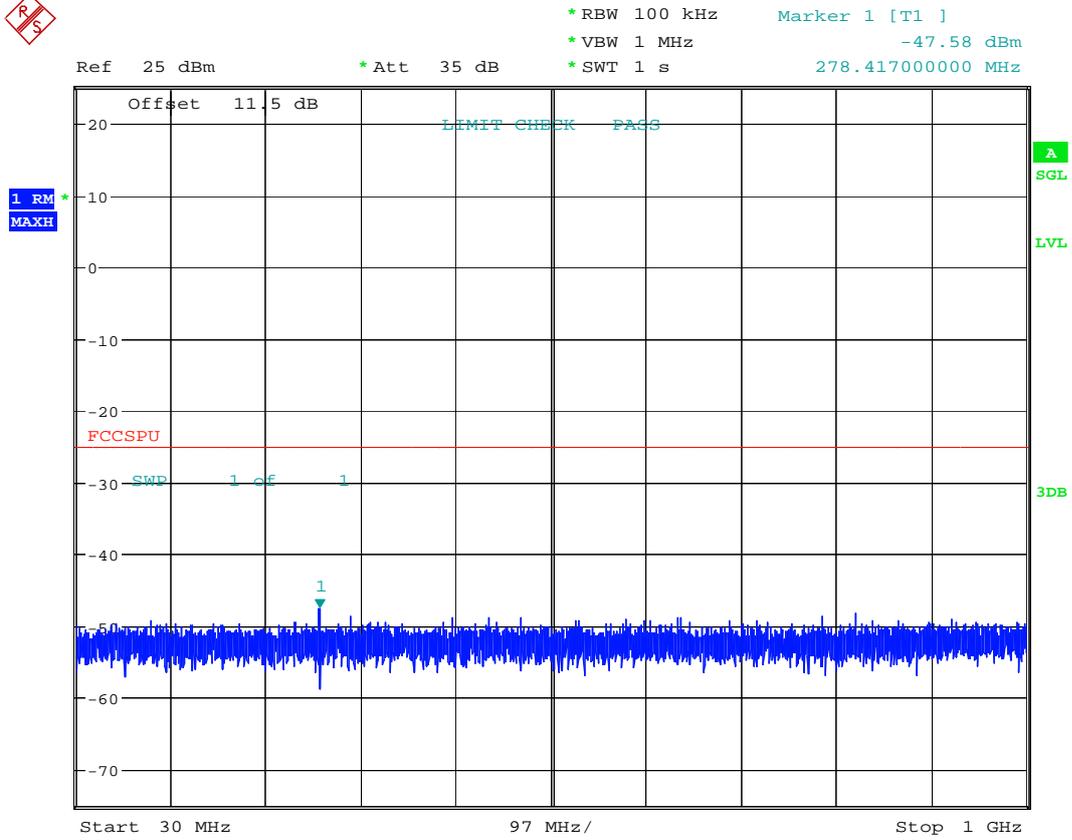


\*RBW 10 kHz      Marker 1 [T1 ]  
 \*VBW 100 kHz      -52.35 dBm  
 \*SWT 1 s      185.82000000 kHz  
 Ref 25 dBm      \*Att 35 dB



PO

Date: 18.MAR.2011 15:19:22



PO

Date: 18.MAR.2011 15:19:26

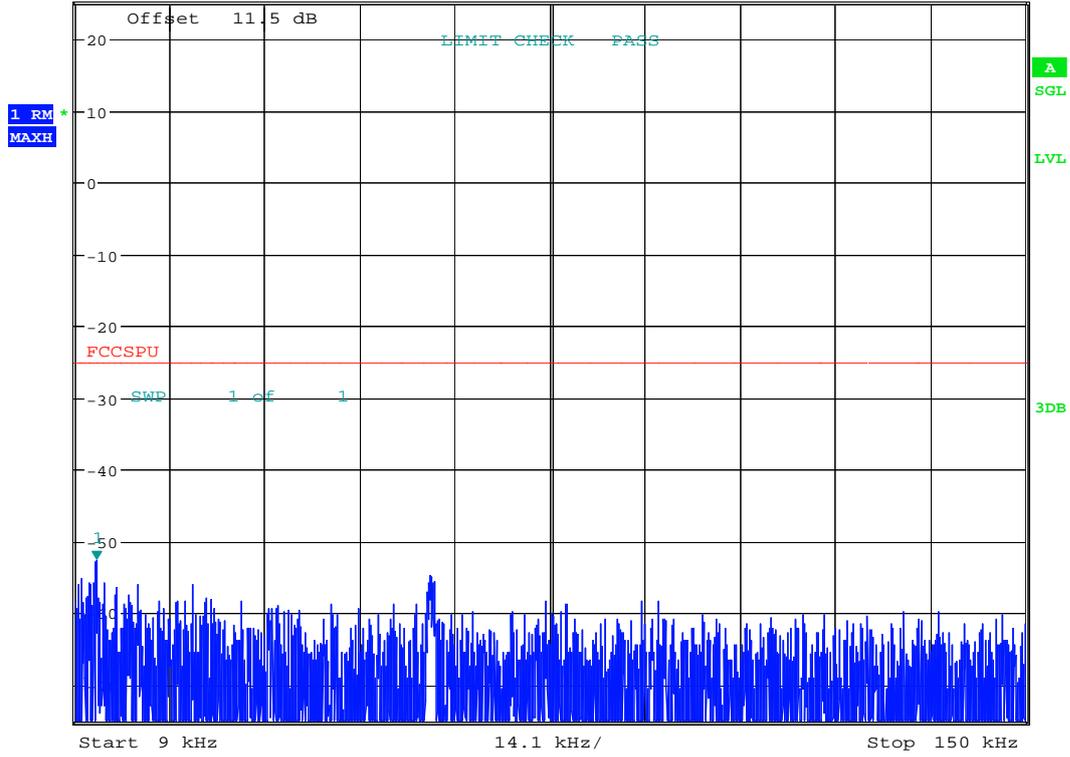




# T

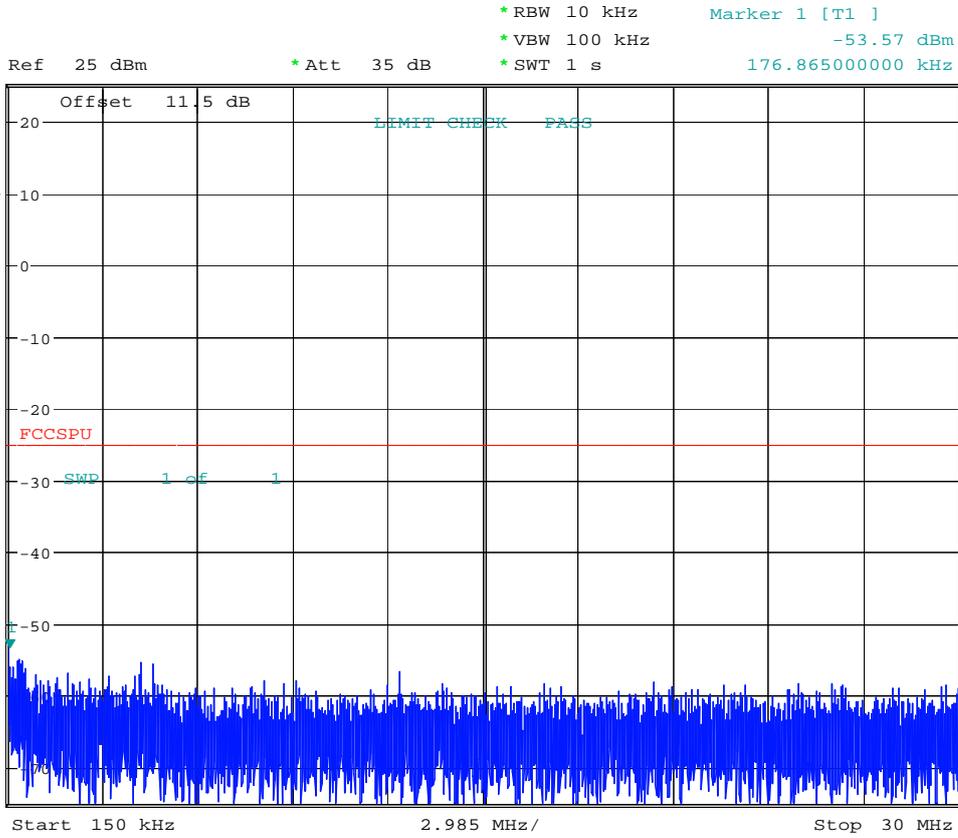


\*RBW 1 kHz                      Marker 1 [T1 ]  
 \*VBW 10 kHz                     -52.61 dBm  
 \*SWT 1 s                            12.17250000 kHz  
 Ref 25 dBm                        \*Att 35 dB



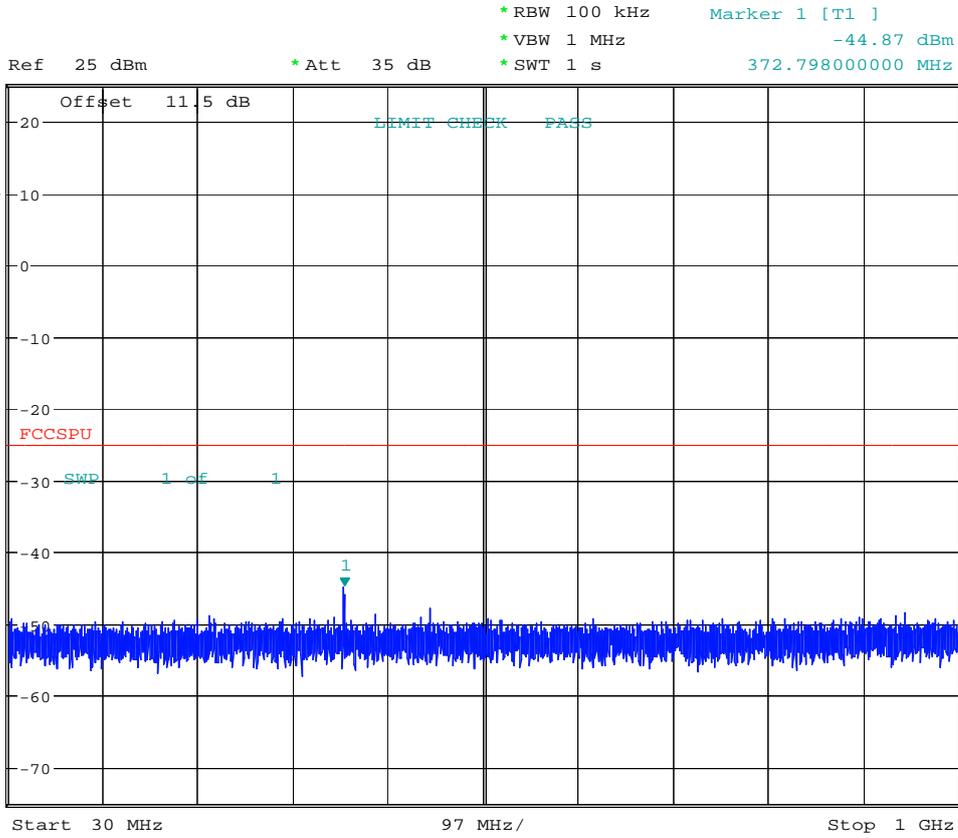
PO

Date: 18.MAR.2011 15:18:24



PO

Date: 18.MAR.2011 15:18:29

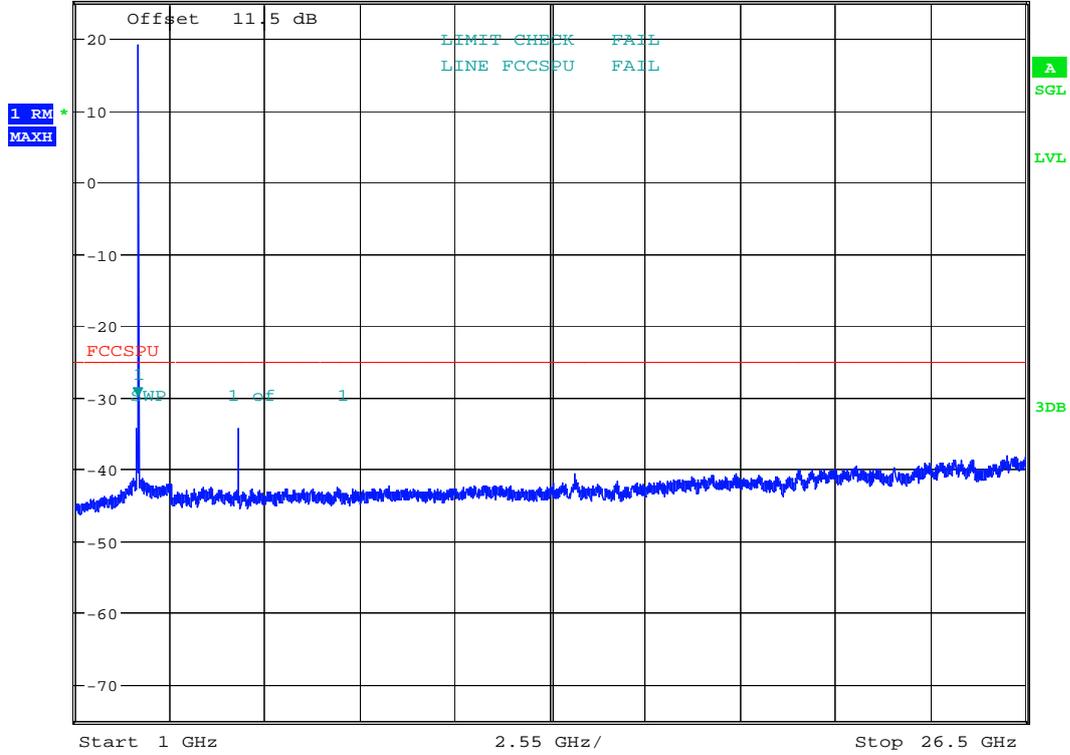


PO

Date: 18.MAR.2011 15:18:33



\* RBW 1 MHz                      Marker 1 [T1 ]  
 \* VBW 3 MHz                      -29.84 dBm  
 \* SWT 1 s                          2.675350000 GHz  
 Ref 25 dBm                      \* Att 35 dB



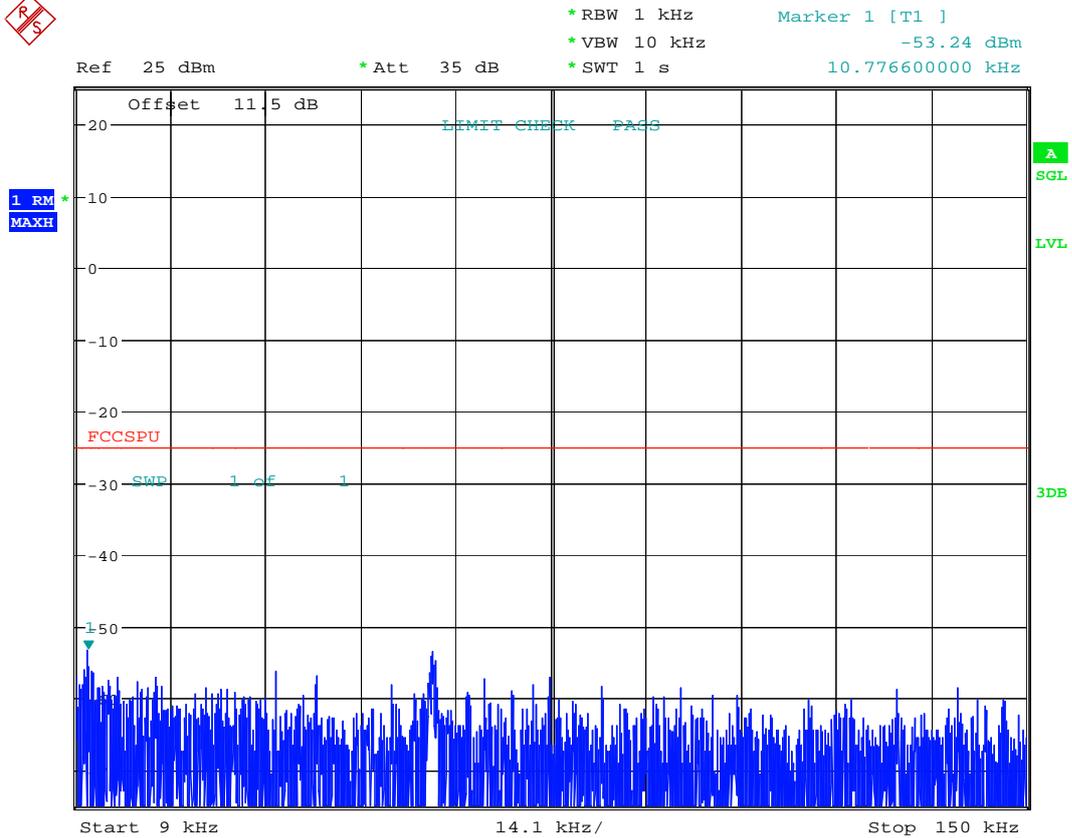
PO

Date: 18.MAR.2011 15:18:39



## 2) TM 2

### B

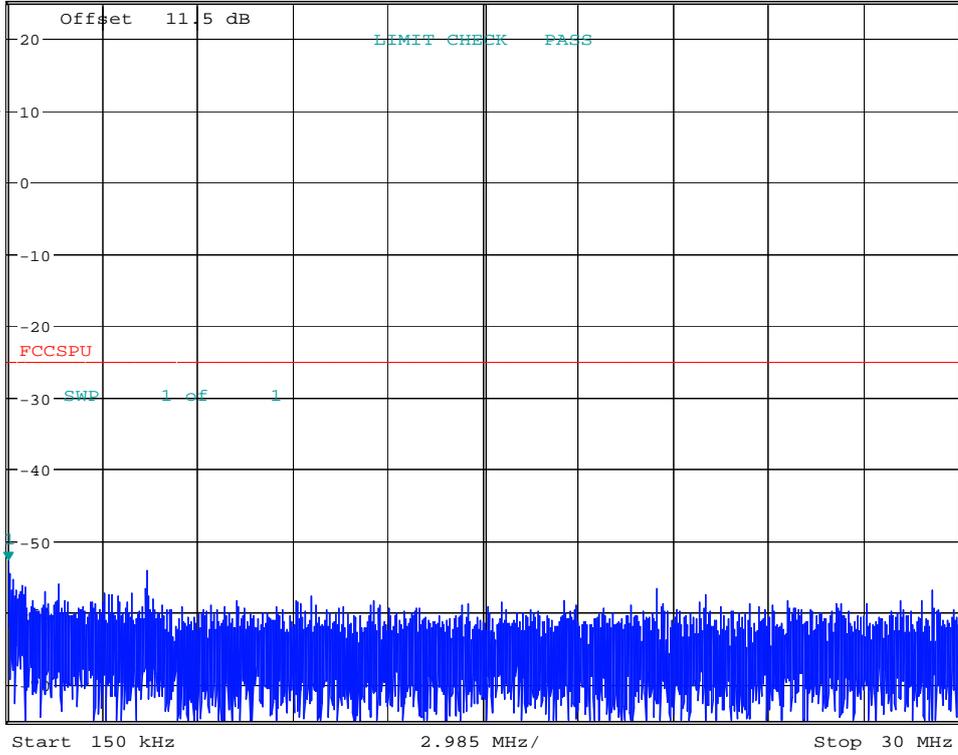


PO

Date: 18.MAR.2011 15:22:49

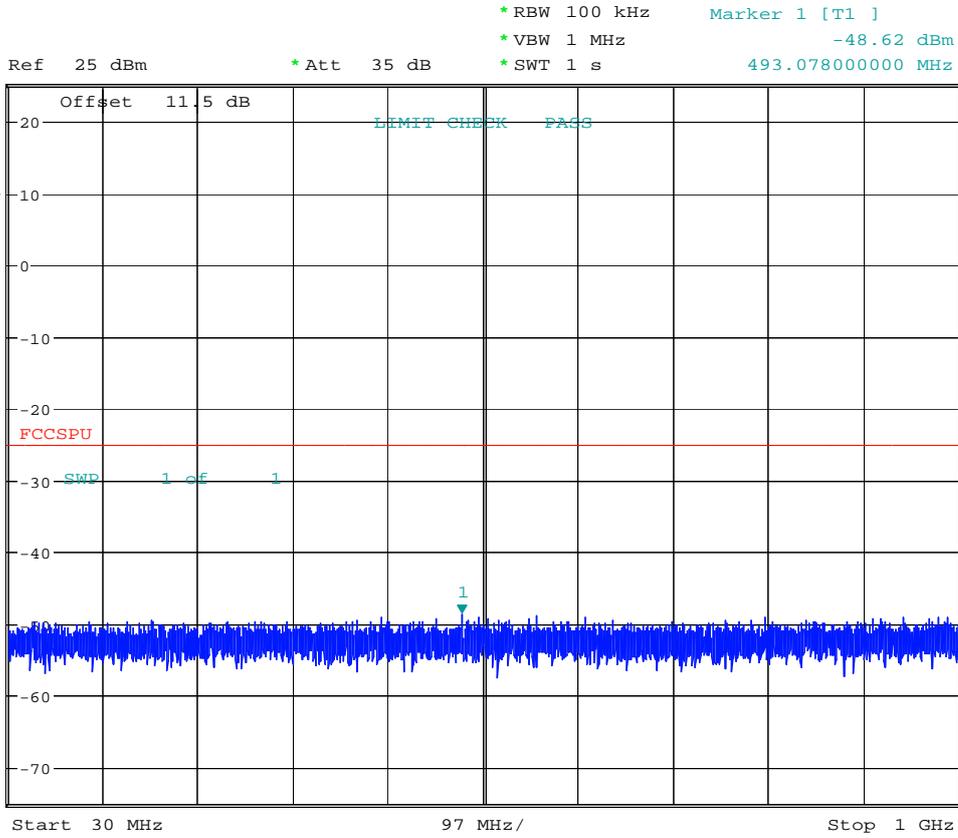


\*RBW 10 kHz      Marker 1 [T1 ]  
 \*VBW 100 kHz      -52.75 dBm  
 \*SWT 1 s      150.00000000 kHz



PO

Date: 18.MAR.2011 15:22:53

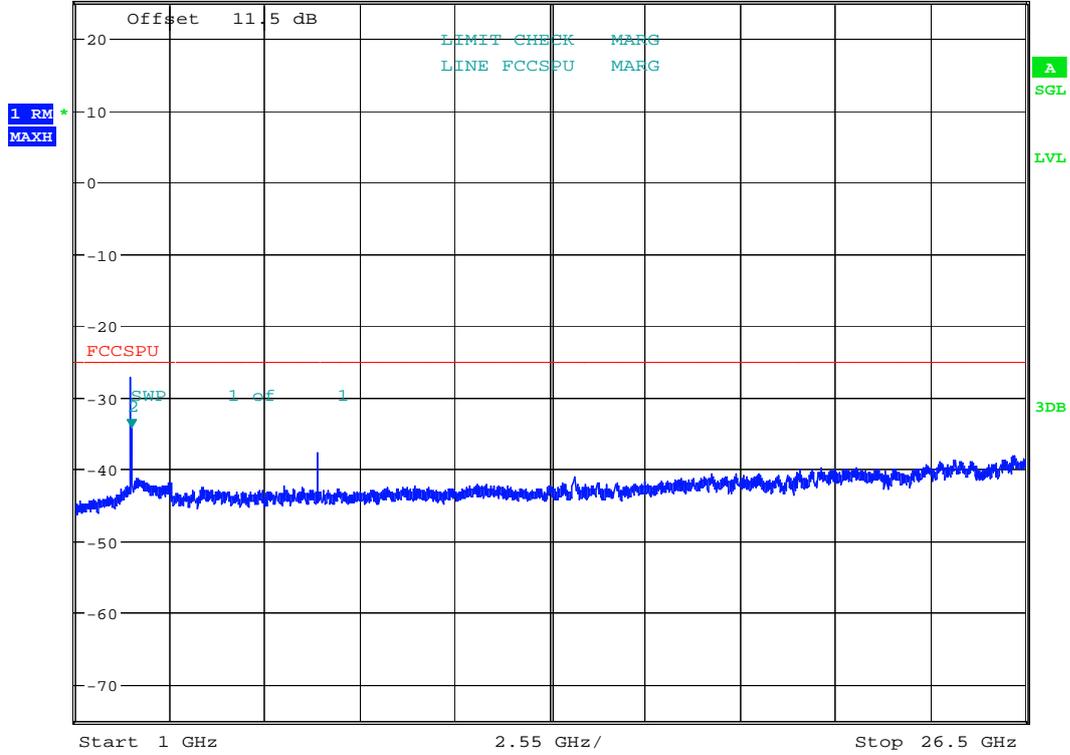


PO

Date: 18.MAR.2011 15:22:58



\* RBW 1 MHz      Marker 2 [T1 ]  
 \* VBW 3 MHz      -34.31 dBm  
 \* SWT 1 s      2.51215000 GHz  
 Ref 25 dBm      \* Att 35 dB



PO

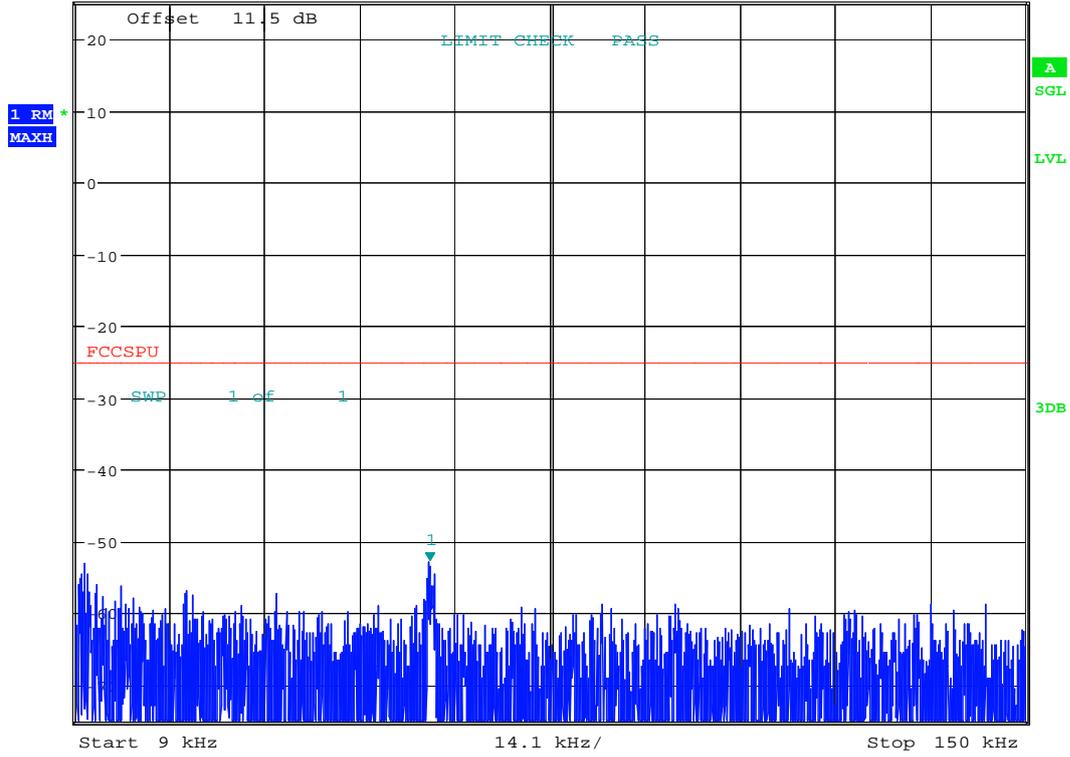
Date: 18.MAR.2011 15:23:04



# M



Ref 25 dBm      \* Att 35 dB      \* RBW 1 kHz      Marker 1 [T1 ]  
 \* VBW 10 kHz      -52.89 dBm  
 \* SWT 1 s      61.550700000 kHz

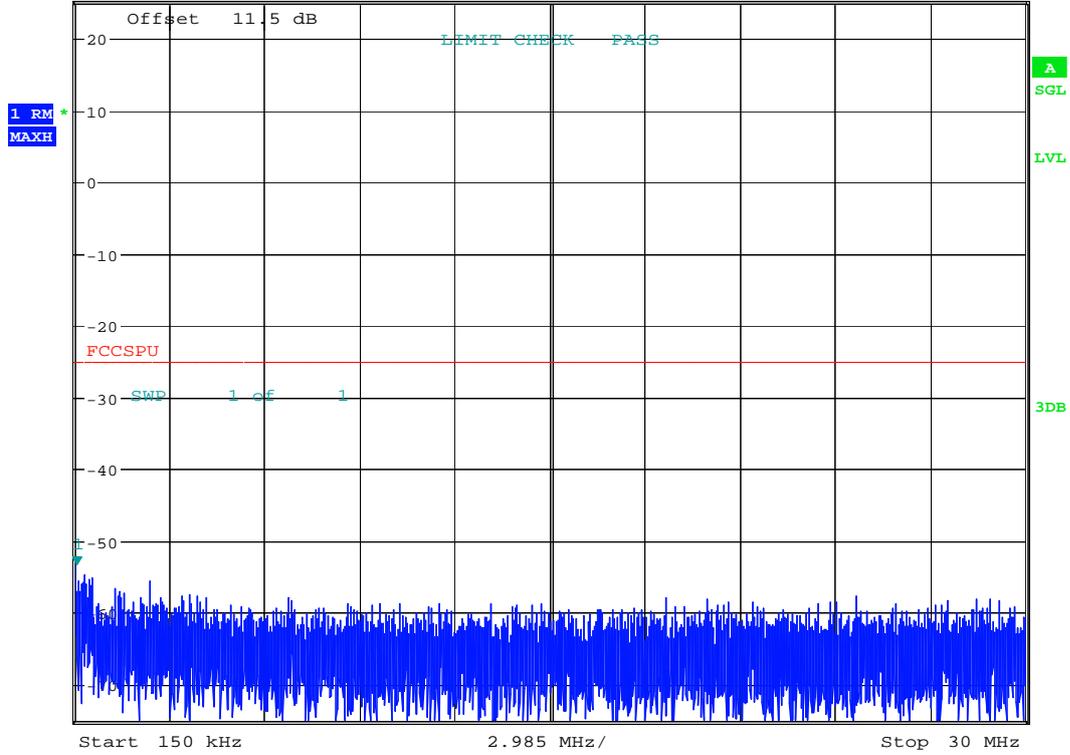


PO

Date: 18.MAR.2011 15:21:56



\*RBW 10 kHz      Marker 1 [T1 ]  
 \*VBW 100 kHz      -53.37 dBm  
 \*SWT 1 s      191.790000000 kHz  
 Ref 25 dBm      \*Att 35 dB

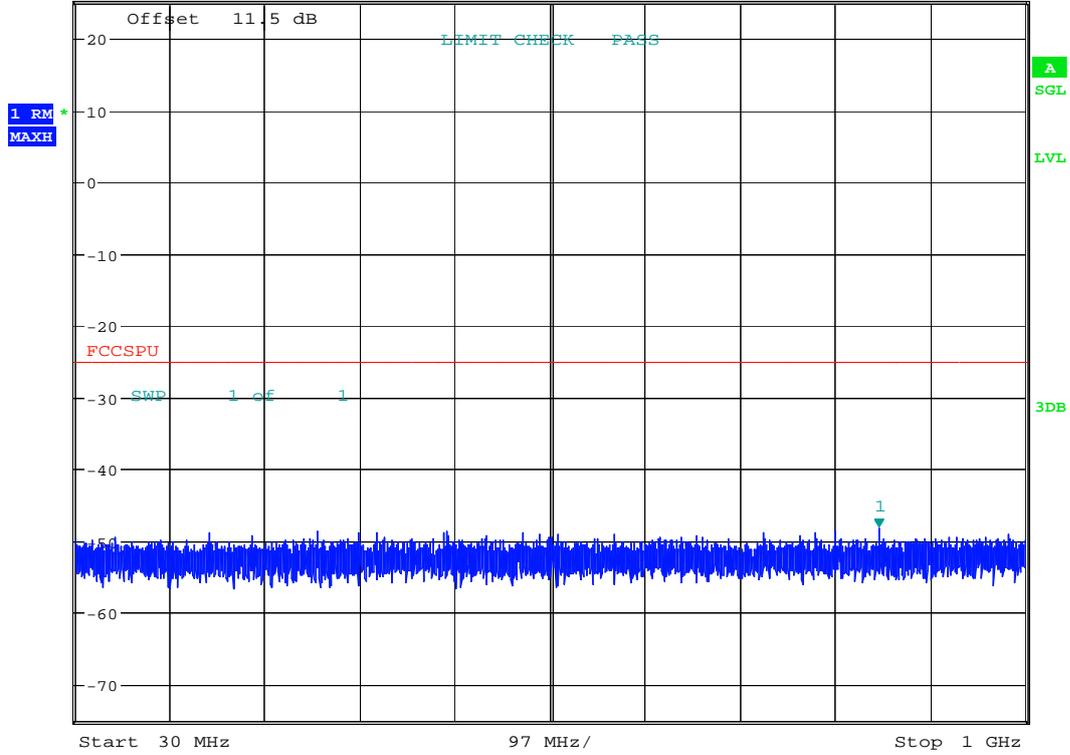


PO

Date: 18.MAR.2011 15:22:00



\*RBW 100 kHz      Marker 1 [T1 ]  
 \*VBW 1 MHz      -48.26 dBm  
 \*SWT 1 s      851.008000000 MHz  
 Ref 25 dBm      \*Att 35 dB

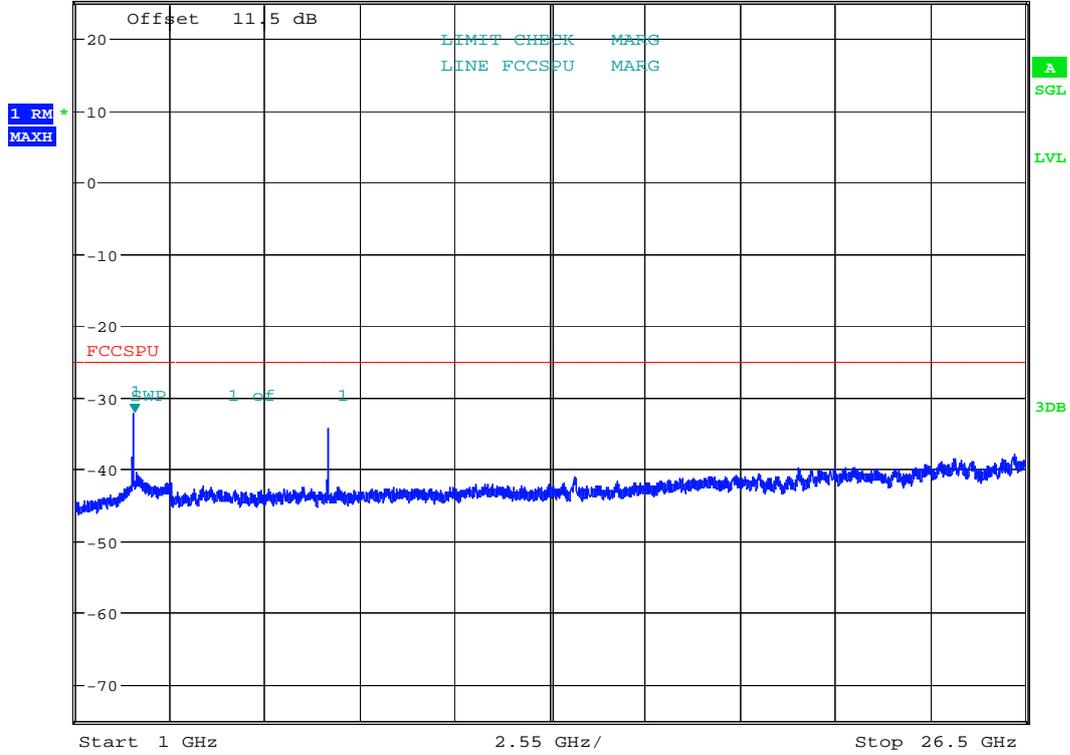


PO

Date: 18.MAR.2011 15:22:05



Ref 25 dBm      \* Att 35 dB      \* RBW 1 MHz      Marker 1 [T1 ]  
 \* VBW 3 MHz      -32.15 dBm  
 \* SWT 1 s      2.57845000 GHz



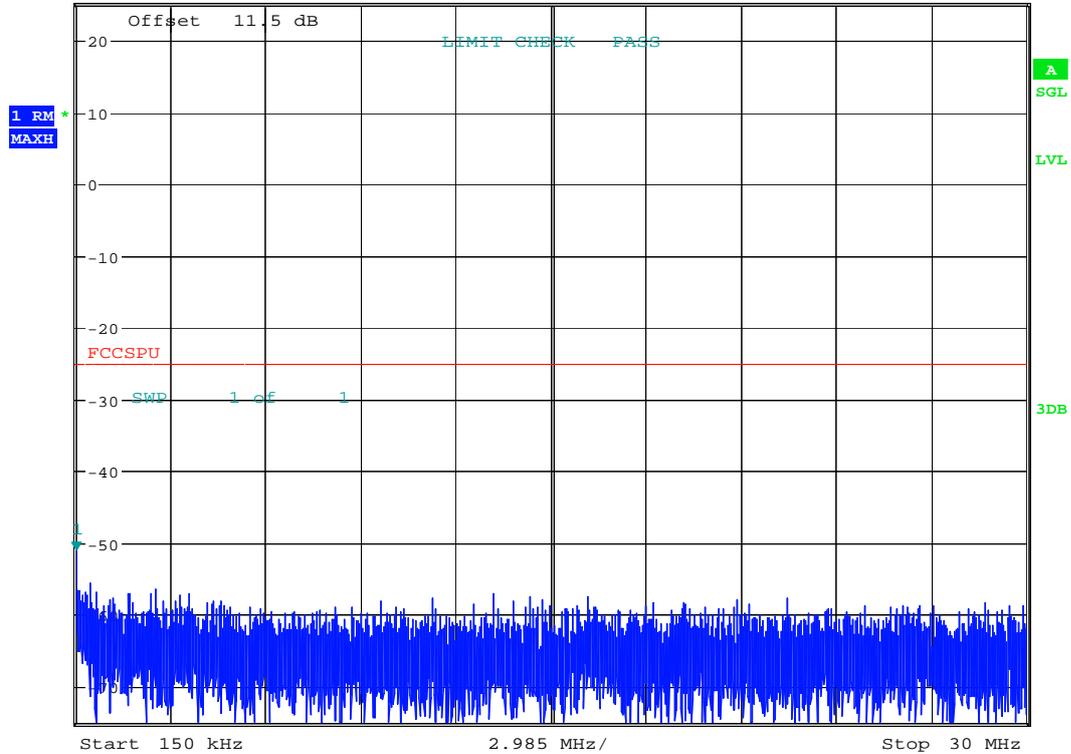
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Date: 18.MAR.2011 15:22:11



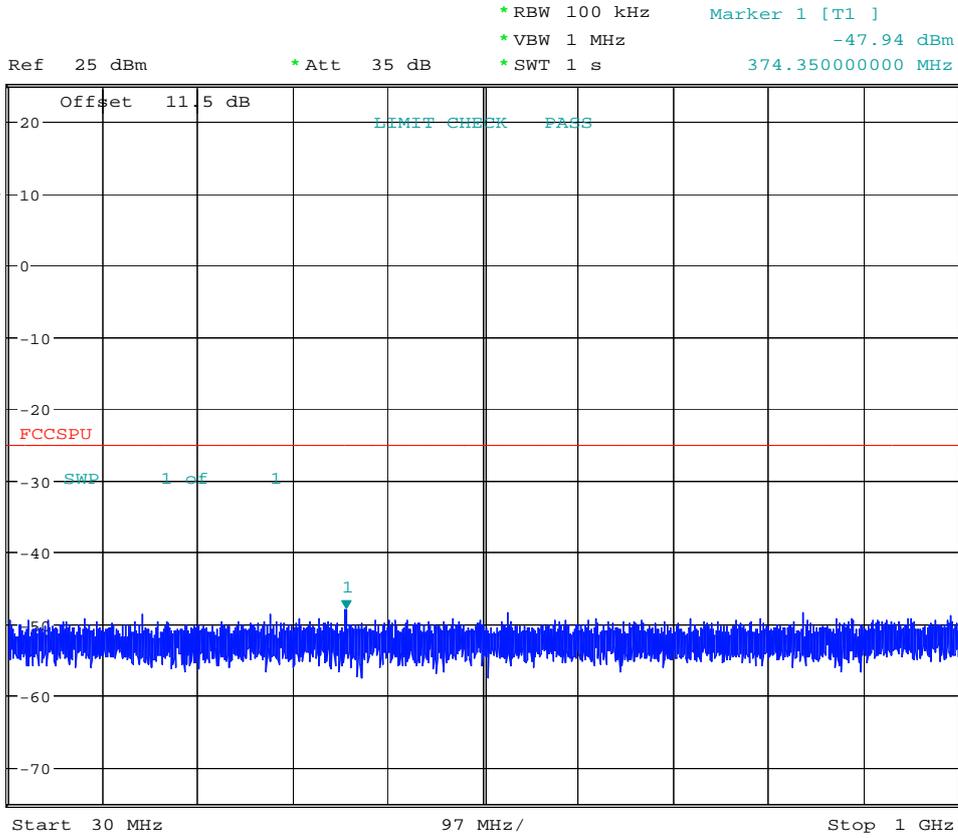


Ref 25 dBm      \*Att 35 dB      \*RBW 10 kHz      Marker 1 [T1 ]  
 \*VBW 100 kHz      -51.21 dBm  
 \*SWT 1 s      164.925000000 kHz



PO

Date: 18.MAR.2011 15:21:07

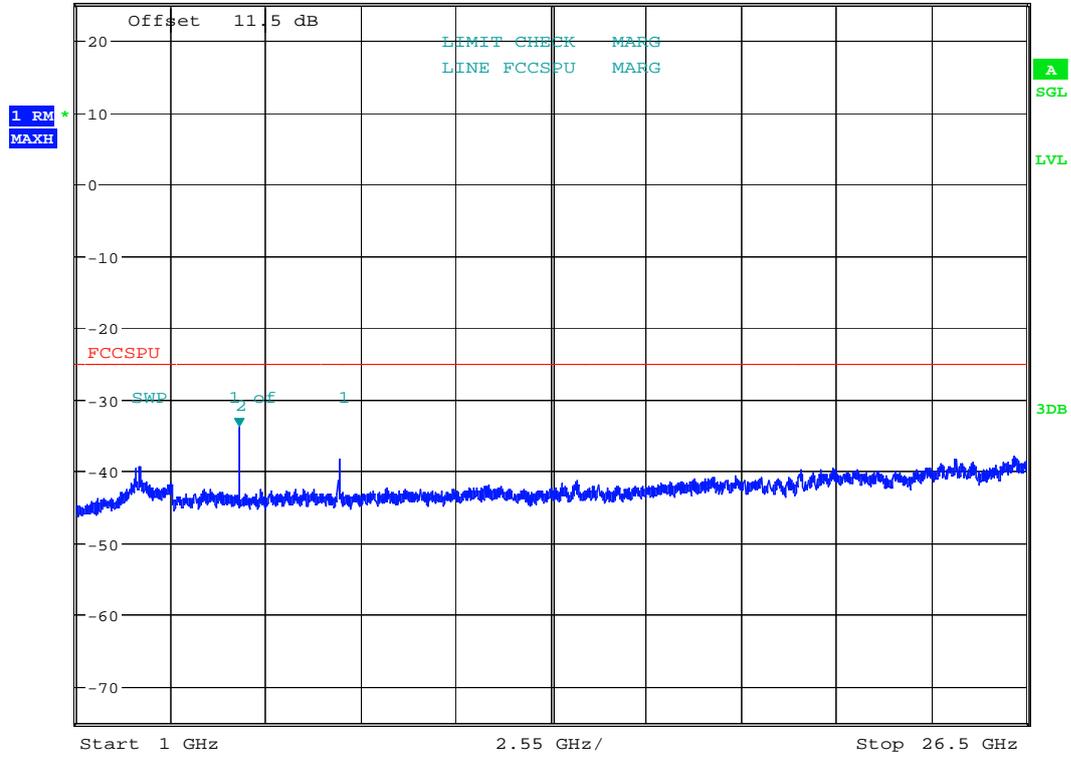


PO

Date: 18.MAR.2011 15:21:12



Ref 25 dBm      \* Att 35 dB      \* RBW 1 MHz      Marker 2 [T1 ]  
 \* VBW 3 MHz      -33.88 dBm  
 \* SWT 1 s      5.375800000 GHz



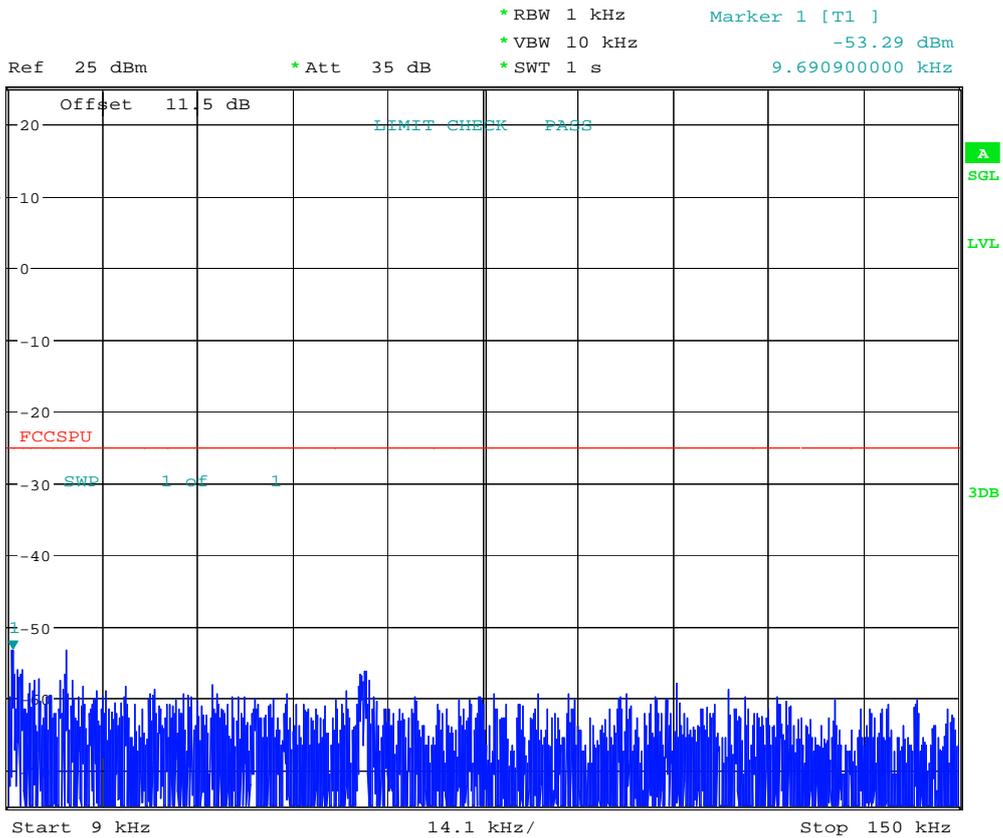
PO

Date: 18.MAR.2011 15:21:18



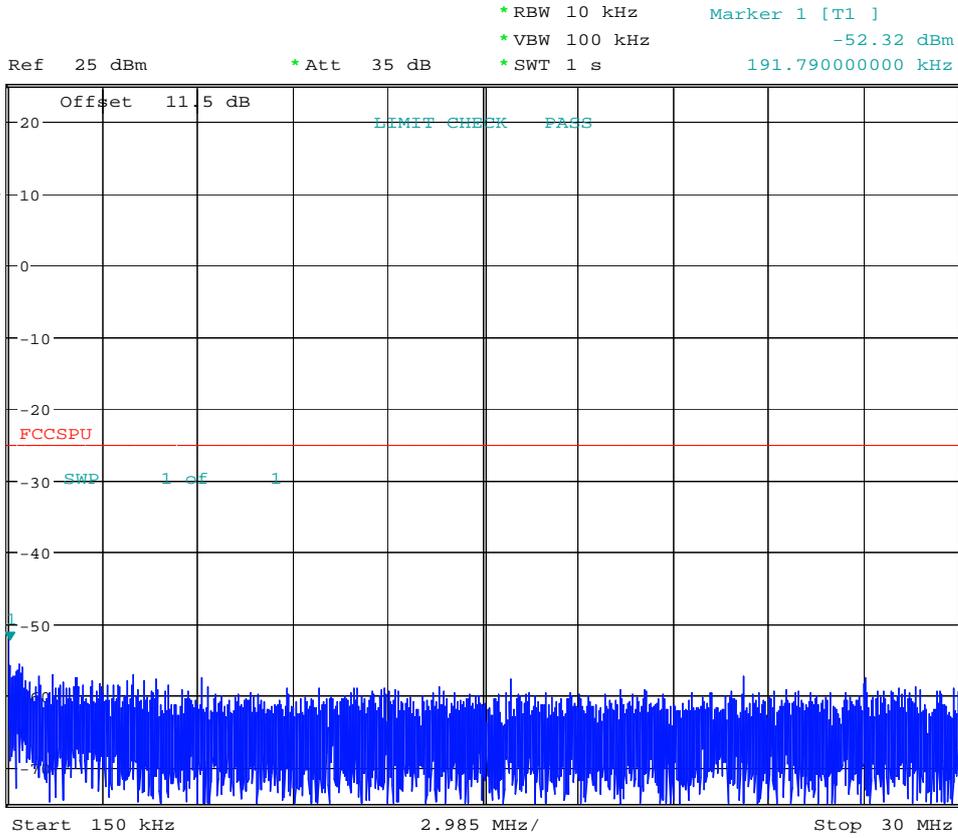
### 3) TM 3

## B



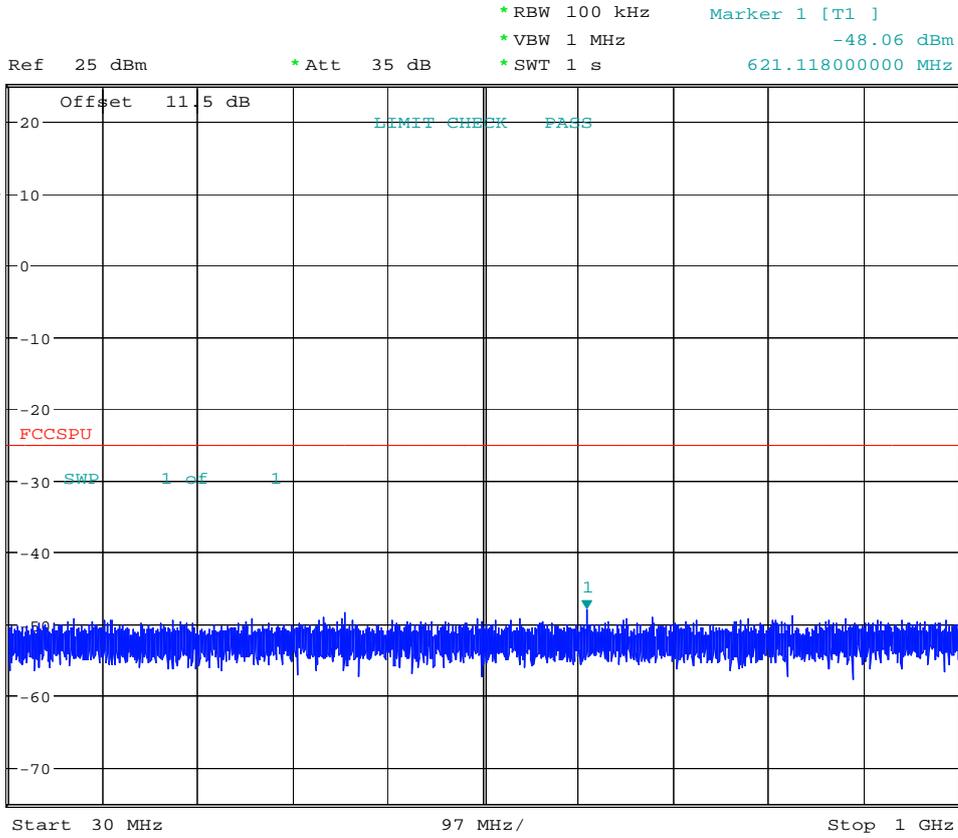
PO

Date: 18.MAR.2011 15:25:27



PO

Date: 18.MAR.2011 15:25:32

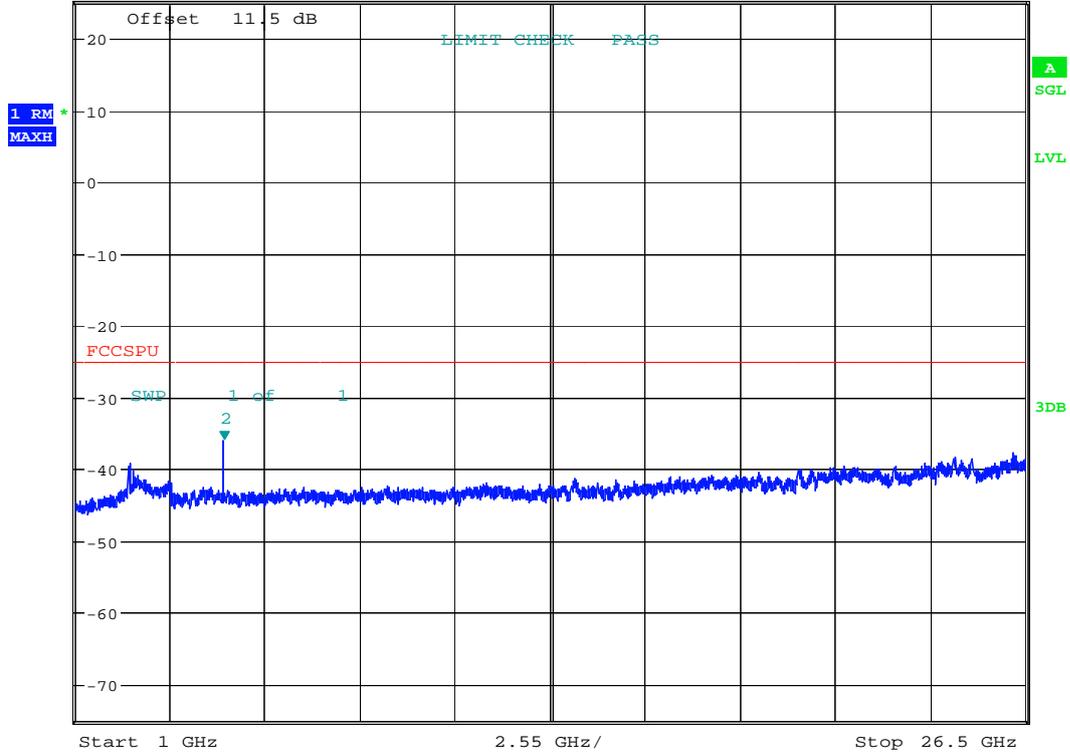


PO

Date: 18.MAR.2011 15:25:37



Ref 25 dBm      \* Att 35 dB      \* RBW 1 MHz      Marker 2 [T1 ]  
 \* VBW 3 MHz      -36.11 dBm  
 \* SWT 1 s      4.995850000 GHz



PO

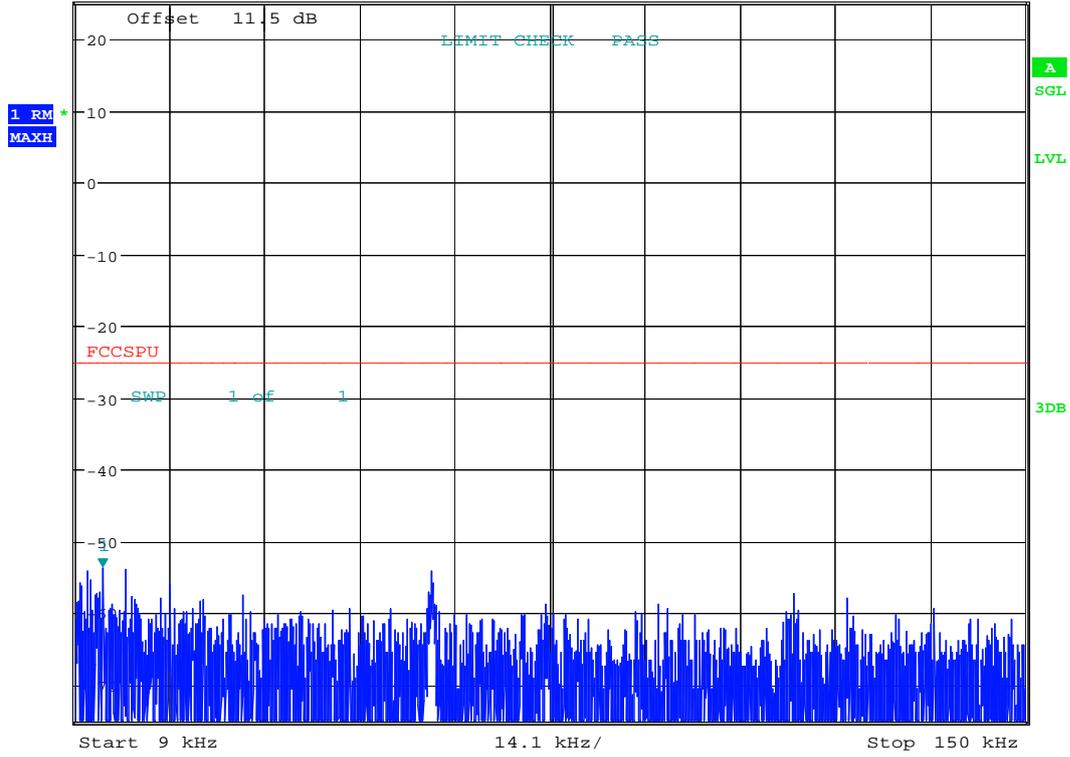
Date: 18.MAR.2011 15:25:43



# M



\*RBW 1 kHz                      Marker 1 [T1 ]  
 \*VBW 10 kHz                     -53.76 dBm  
 \*SWT 1 s                            13.173600000 kHz  
 Ref 25 dBm                        \*Att 35 dB

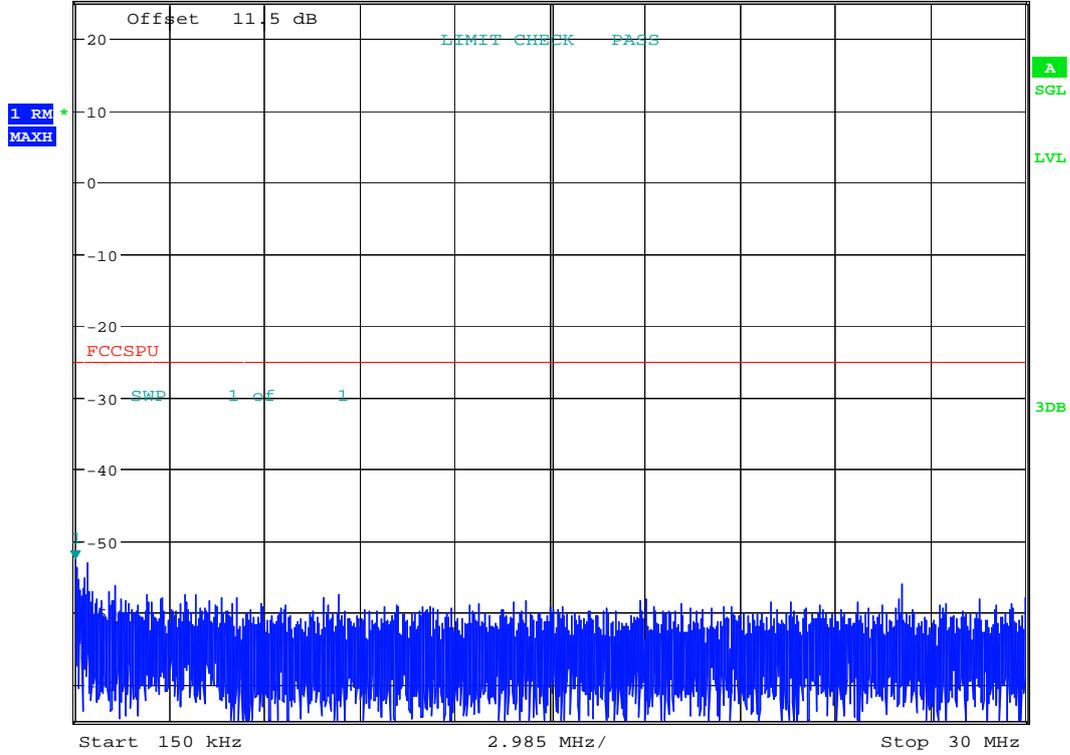


PO

Date: 18.MAR.2011 15:24:34

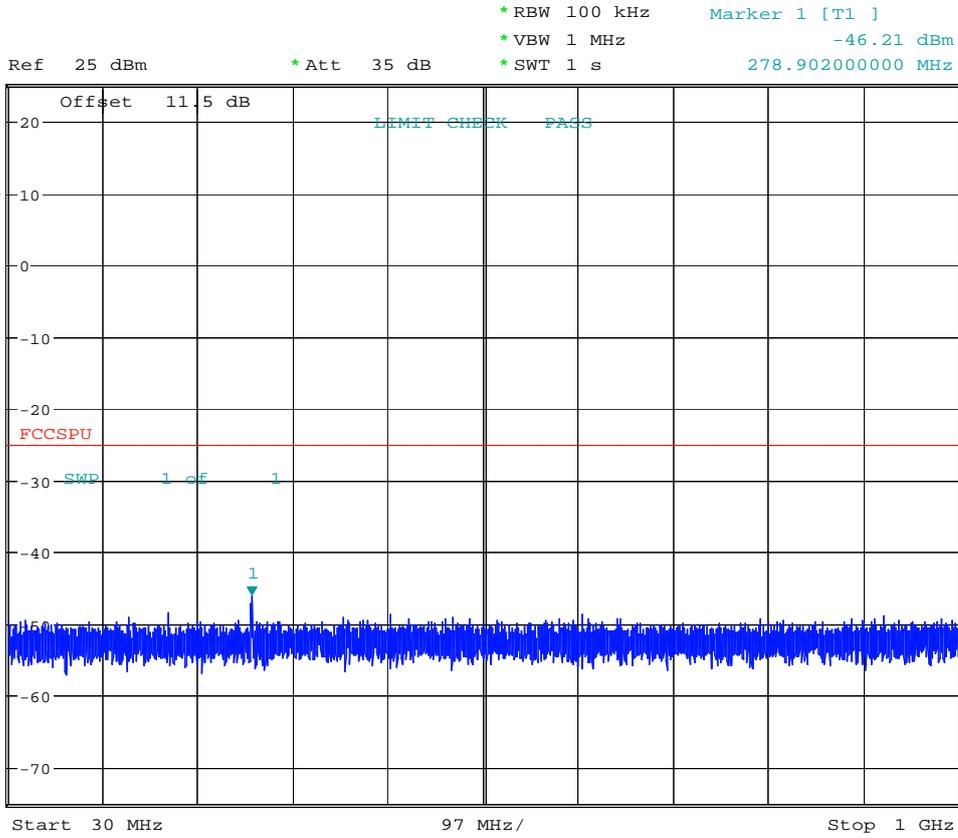


\*RBW 10 kHz      Marker 1 [T1 ]  
 \*VBW 100 kHz      -52.52 dBm  
 \*SWT 1 s      158.955000000 kHz  
 Ref 25 dBm      \*Att 35 dB



PO

Date: 18.MAR.2011 15:24:39

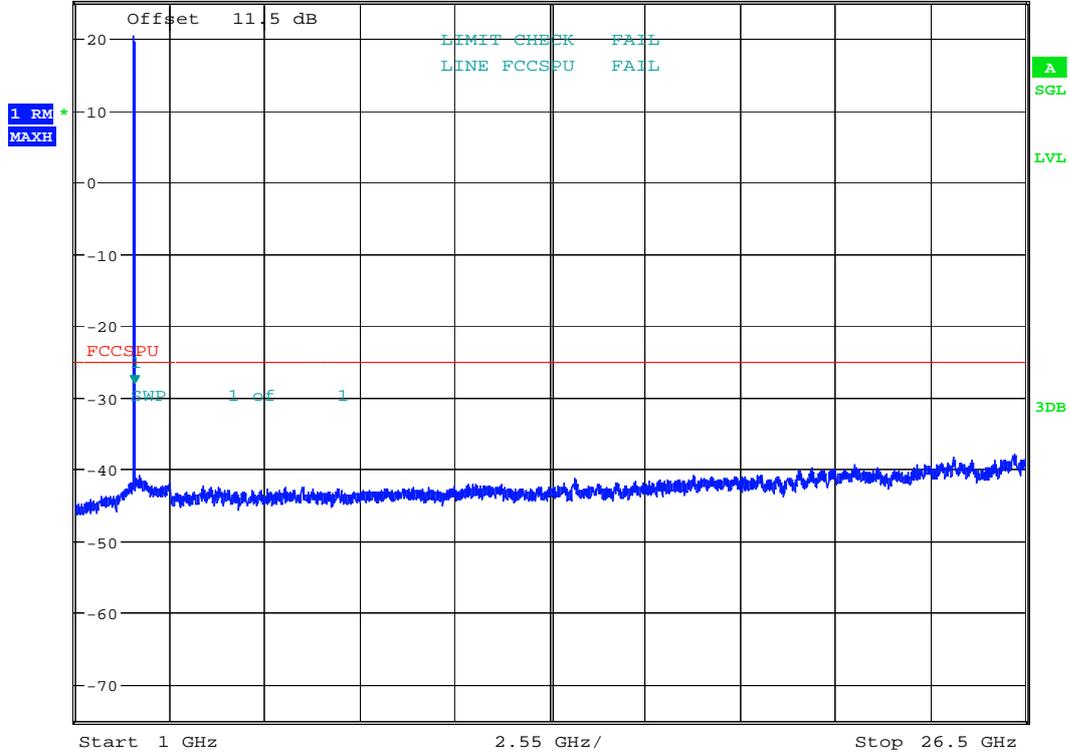


PO

Date: 18.MAR.2011 15:24:44



Ref 25 dBm \* Att 35 dB \* RBW 1 MHz Marker 1 [T1 ]  
\* VBW 3 MHz -28.22 dBm  
\* SWT 1 s 2.581000000 GHz



PO

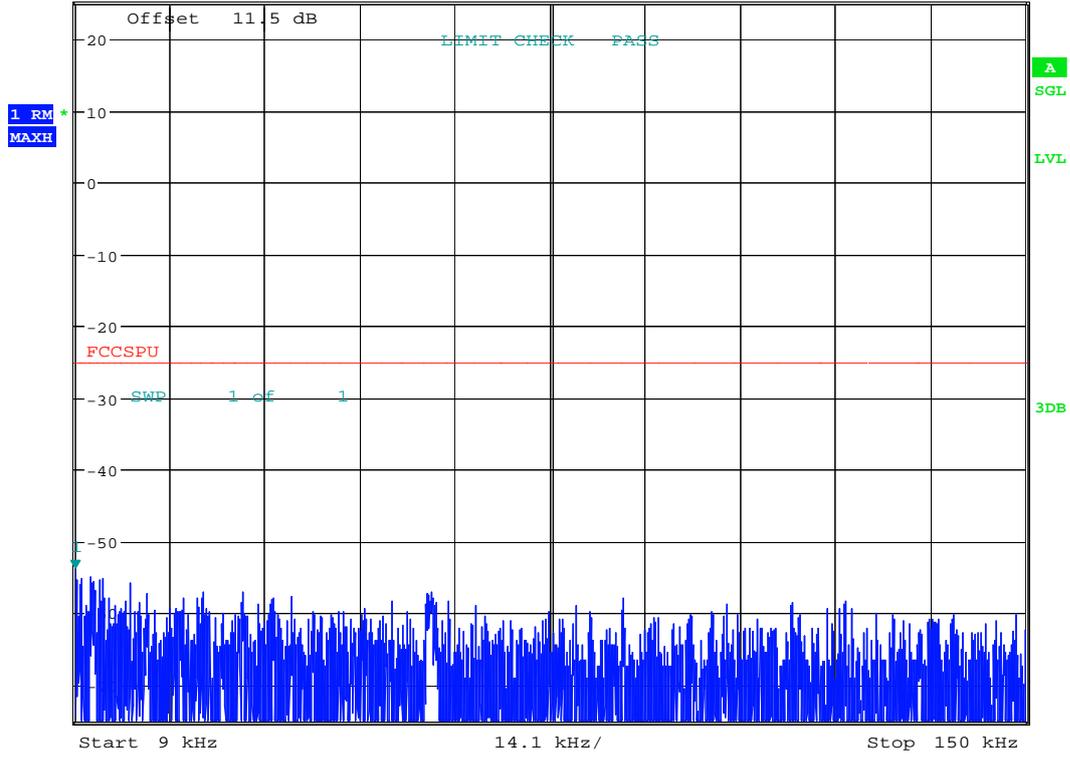
Date: 18.MAR.2011 15:24:50



T

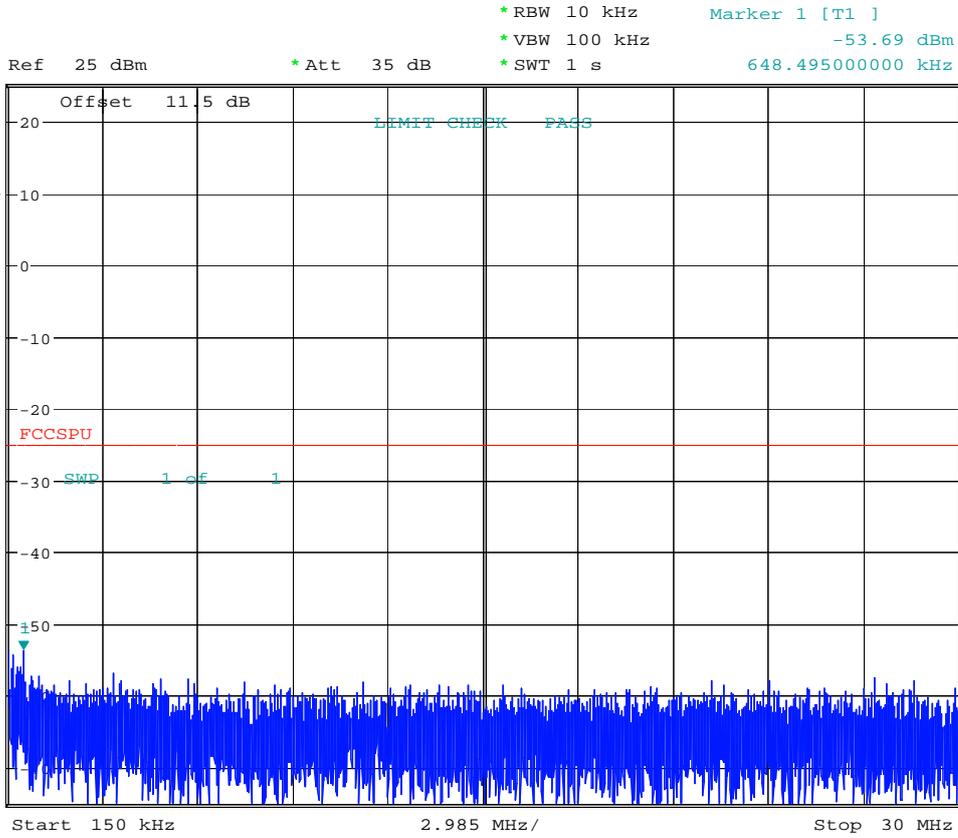


\*RBW 1 kHz                      Marker 1 [T1 ]  
 \*VBW 10 kHz                     -53.91 dBm  
 \*SWT 1 s                            9.070500000 kHz  
 Ref 25 dBm                        \*Att 35 dB



PO

Date: 18.MAR.2011 15:23:41

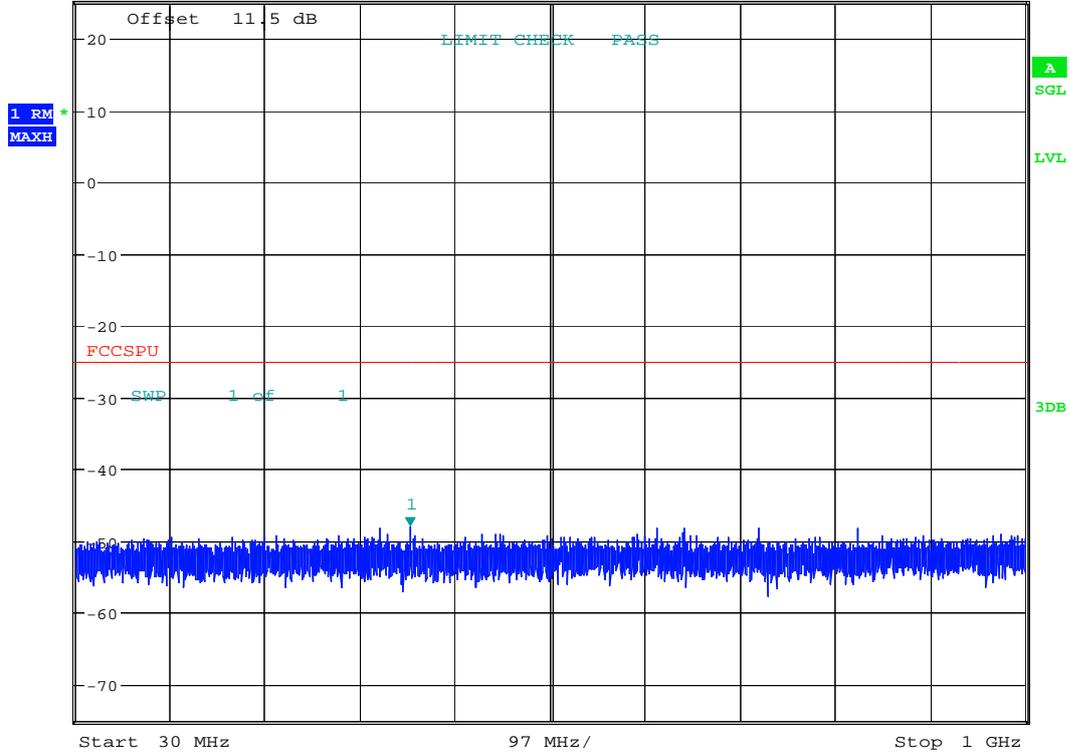


PO

Date: 18.MAR.2011 15:23:46



\*RBW 100 kHz      Marker 1 [T1 ]  
 \*VBW 1 MHz      -48.08 dBm  
 \*SWT 1 s      372.216000000 MHz  
 Ref 25 dBm      \*Att 35 dB

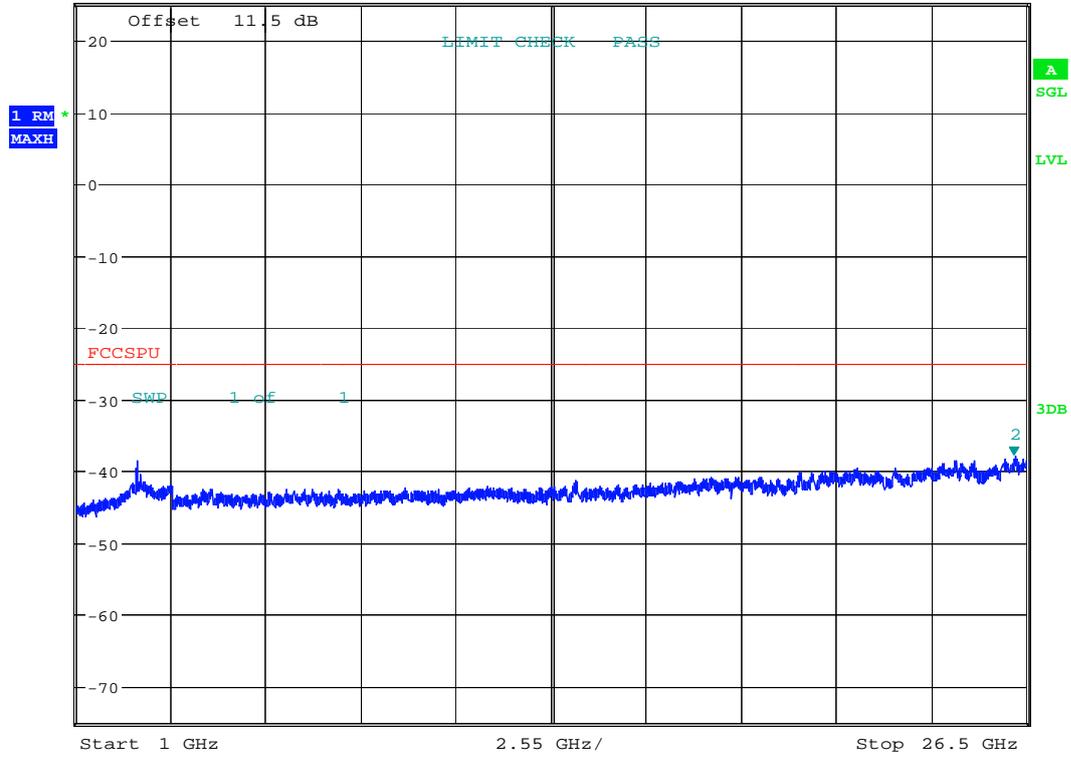


PO

Date: 18.MAR.2011 15:23:51



\* RBW 1 MHz      Marker 2 [T1 ]  
 \* VBW 3 MHz      -37.99 dBm  
 \* SWT 1 s          26.176150000 GHz  
 Ref 25 dBm      \* Att 35 dB



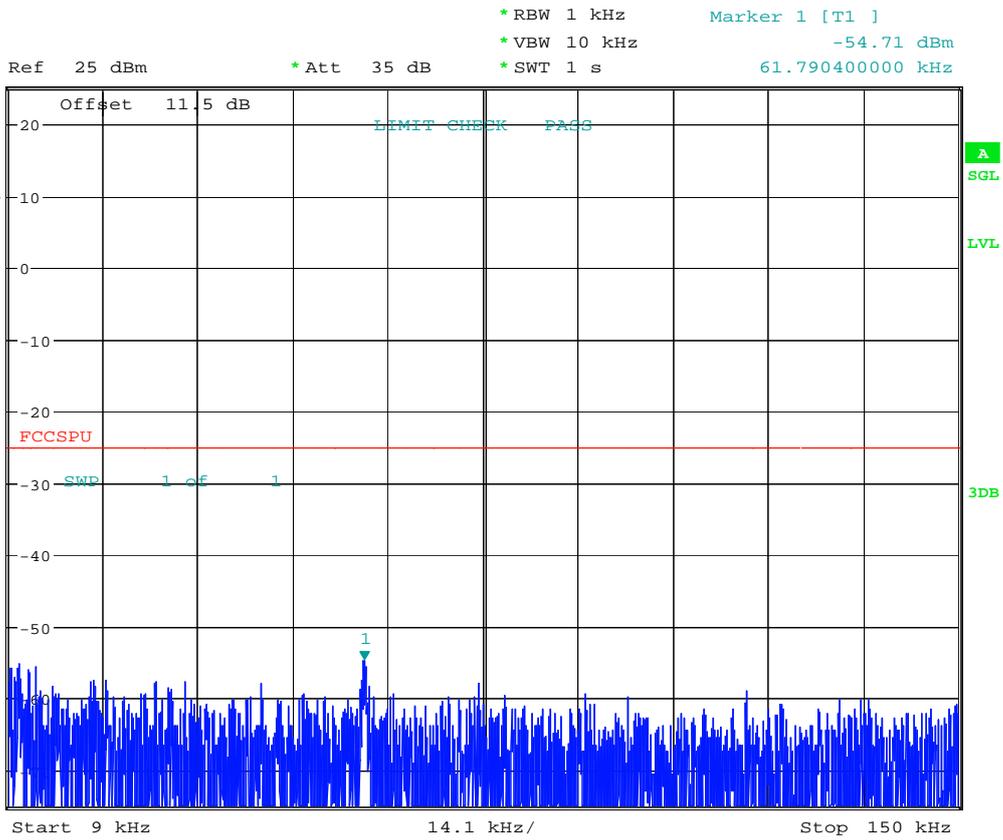
PO

Date: 18.MAR.2011 15:23:57



# 4) TM 4

## B

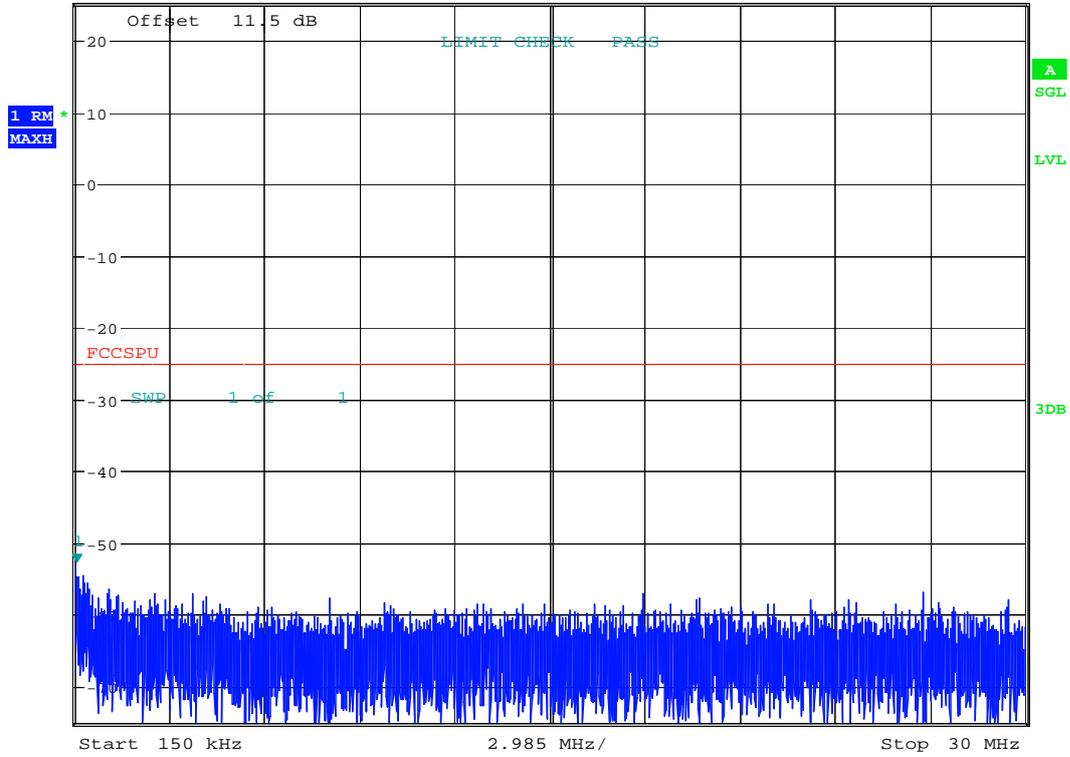


PO

Date: 18.MAR.2011 15:28:06

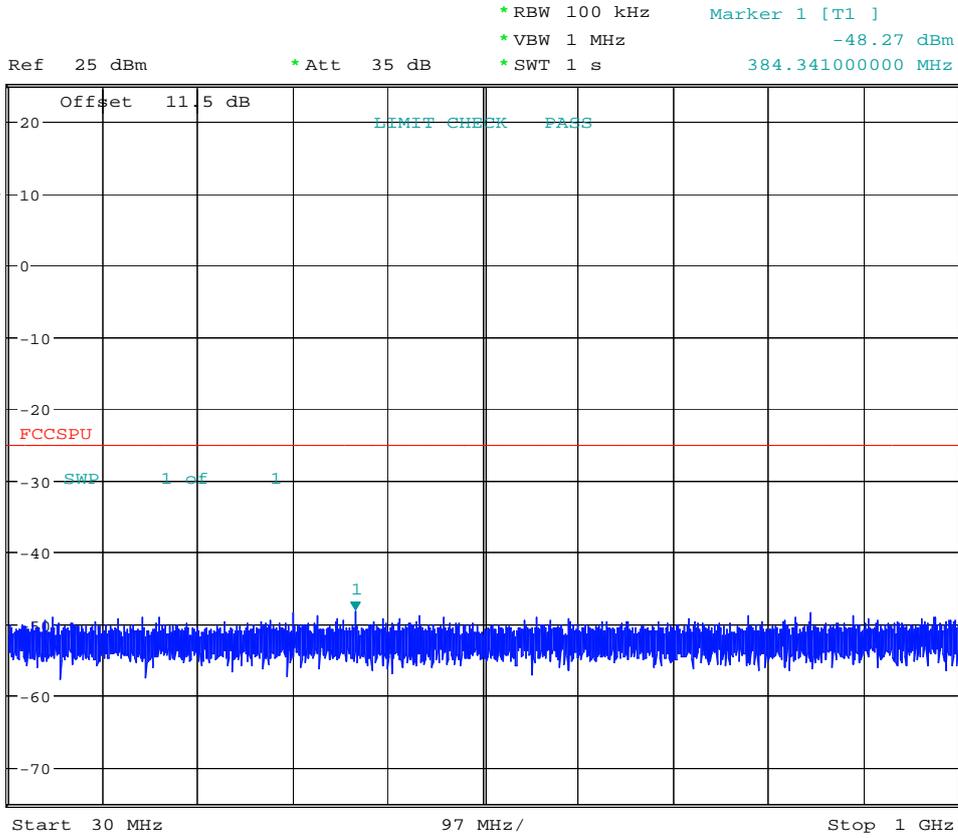


\*RBW 10 kHz      Marker 1 [T1 ]  
 \*VBW 100 kHz      -52.74 dBm  
 \*SWT 1 s      179.85000000 kHz  
 Ref 25 dBm      \*Att 35 dB



PO

Date: 18.MAR.2011 15:28:11

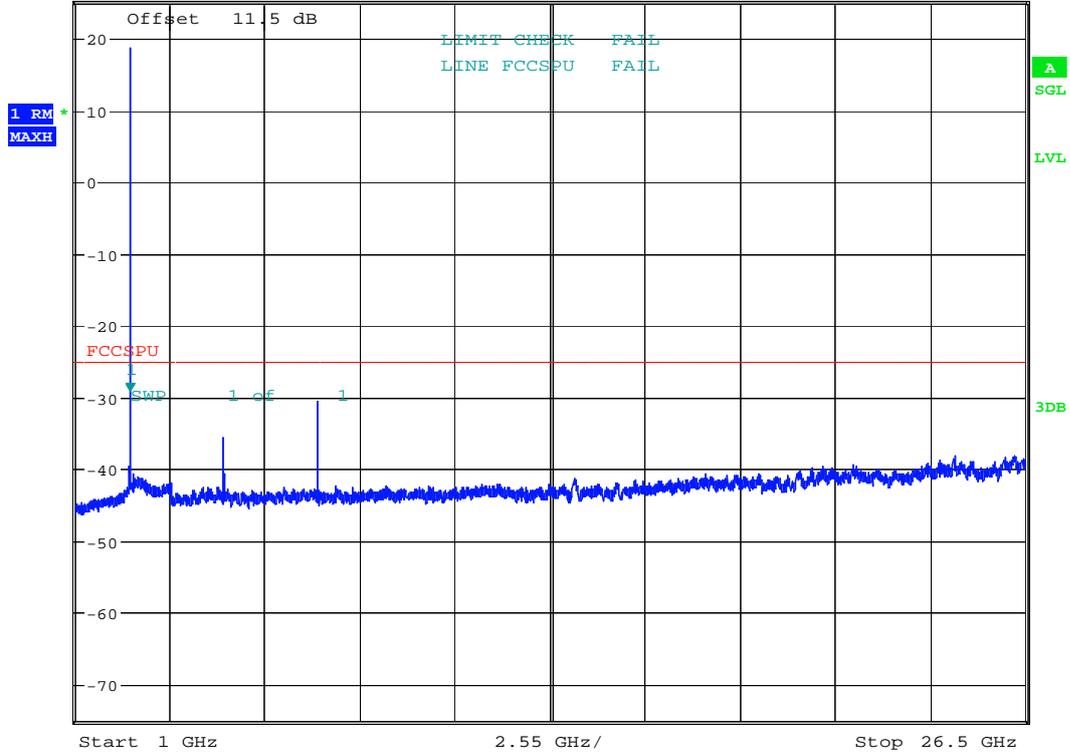


PO

Date: 18.MAR.2011 15:28:16



\* RBW 1 MHz      Marker 1 [T1 ]  
 \* VBW 3 MHz      -29.21 dBm  
 \* SWT 1 s          2.486650000 GHz  
 Ref 25 dBm      \* Att 35 dB



PO

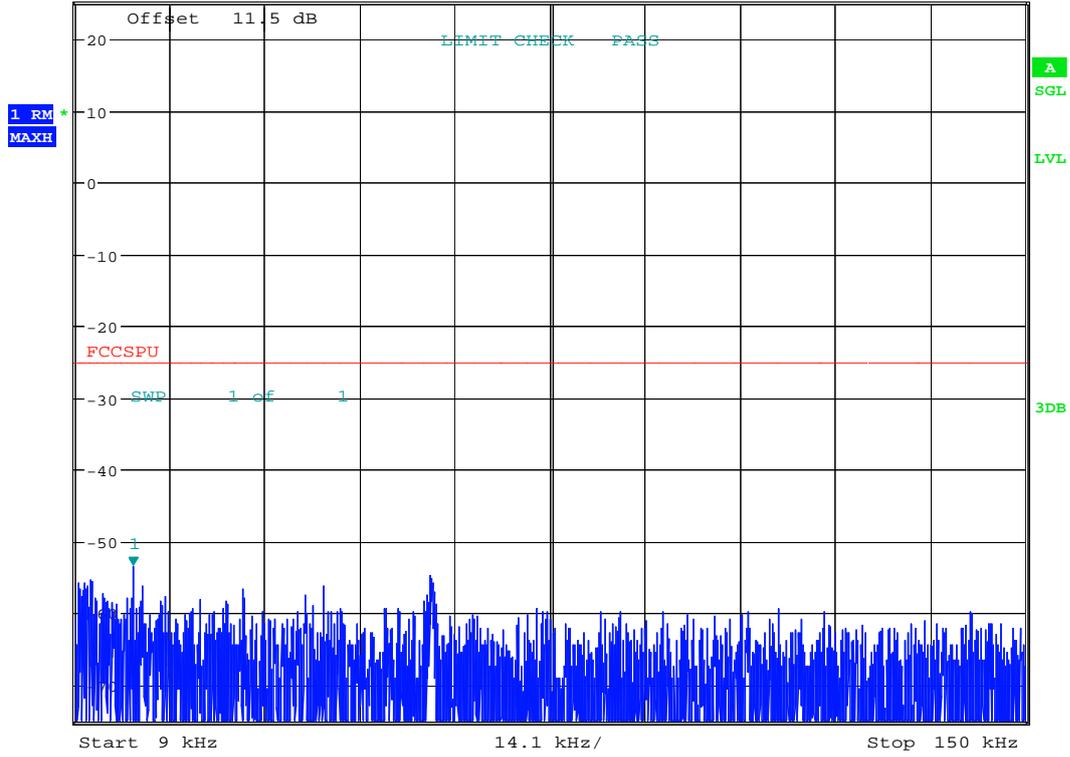
Date: 18.MAR.2011 15:28:21



# M



Ref 25 dBm      \* Att 35 dB      \* RBW 1 kHz      Marker 1 [T1 ]  
 \* VBW 10 kHz      -53.39 dBm  
 \* SWT 1 s      17.643300000 kHz

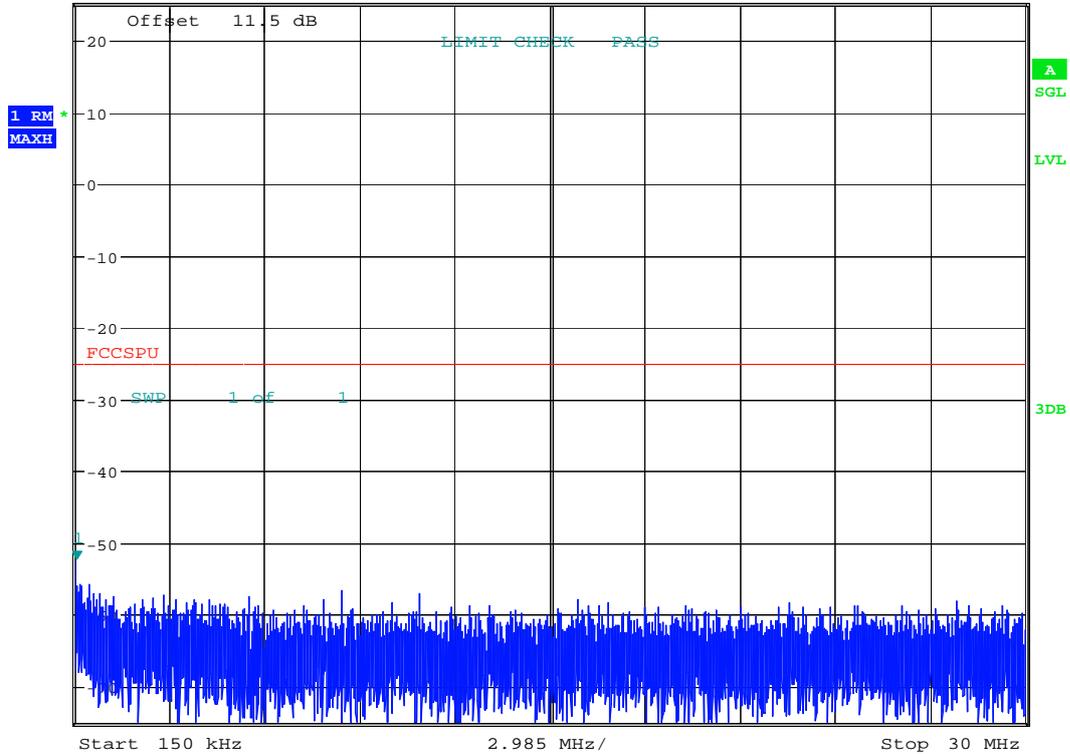


PO

Date: 18.MAR.2011 15:27:13



\*RBW 10 kHz      Marker 1 [T1 ]  
 \*VBW 100 kHz      -52.45 dBm  
 \*SWT 1 s      191.790000000 kHz  
 Ref 25 dBm      \*Att 35 dB

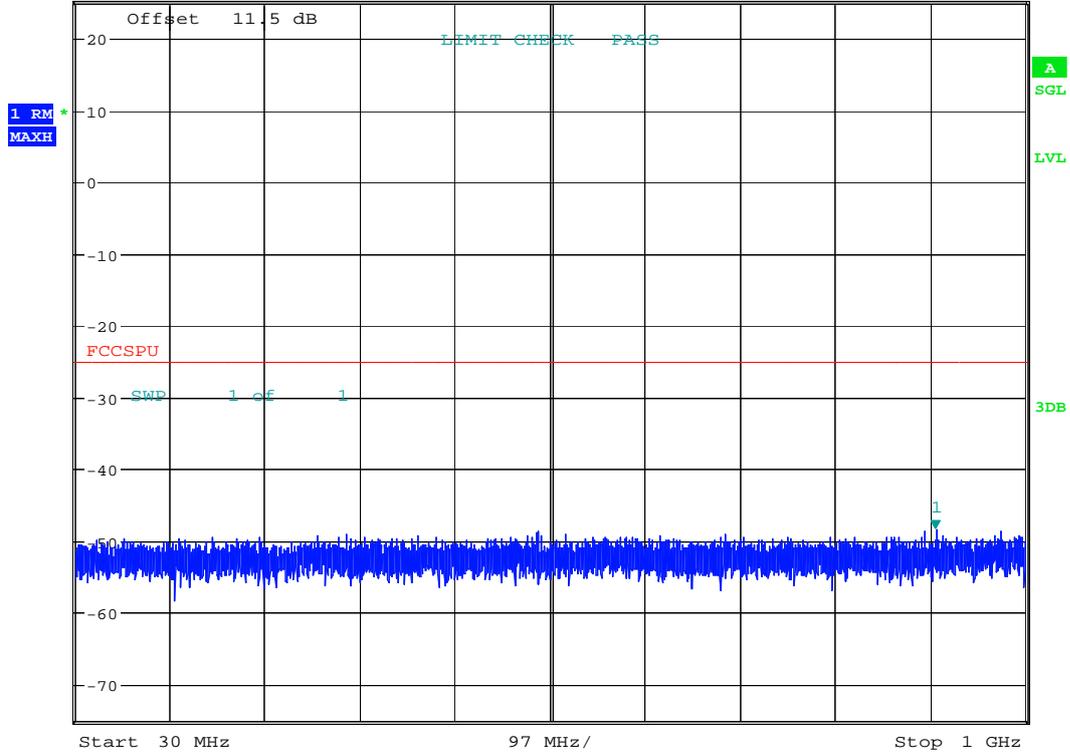


PO

Date: 18.MAR.2011 15:27:18



\*RBW 100 kHz      Marker 1 [T1 ]  
 \*VBW 1 MHz      -48.49 dBm  
 \*SWT 1 s      909.014000000 MHz  
 Ref 25 dBm      \*Att 35 dB

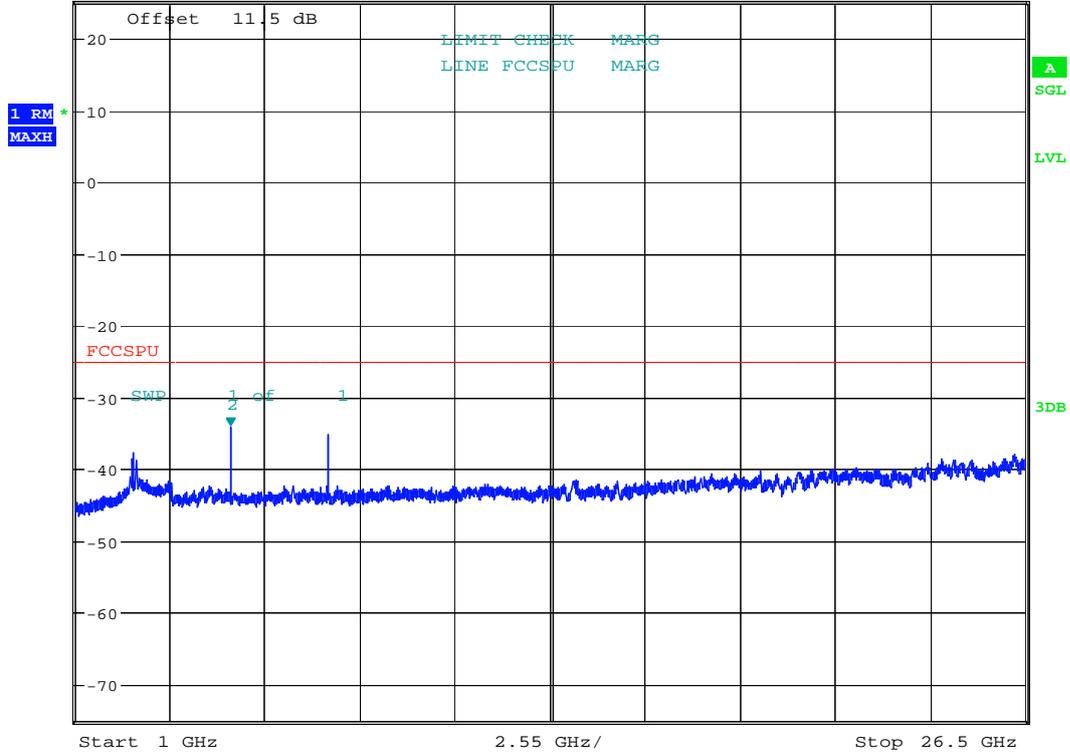


PO

Date: 18.MAR.2011 15:27:23



\* RBW 1 MHz      Marker 2 [T1 ]  
 \* VBW 3 MHz      -34.11 dBm  
 \* SWT 1 s      5.184550000 GHz  
 Ref 25 dBm      \* Att 35 dB



PO

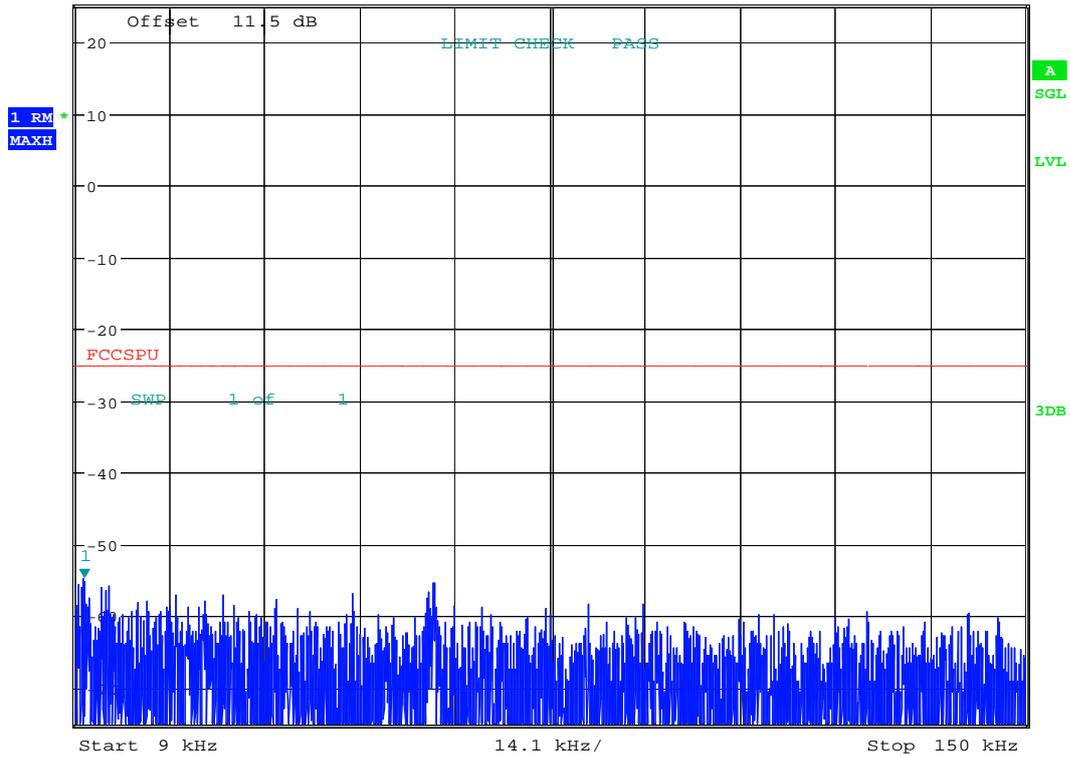
Date: 18.MAR.2011 15:27:29



# T



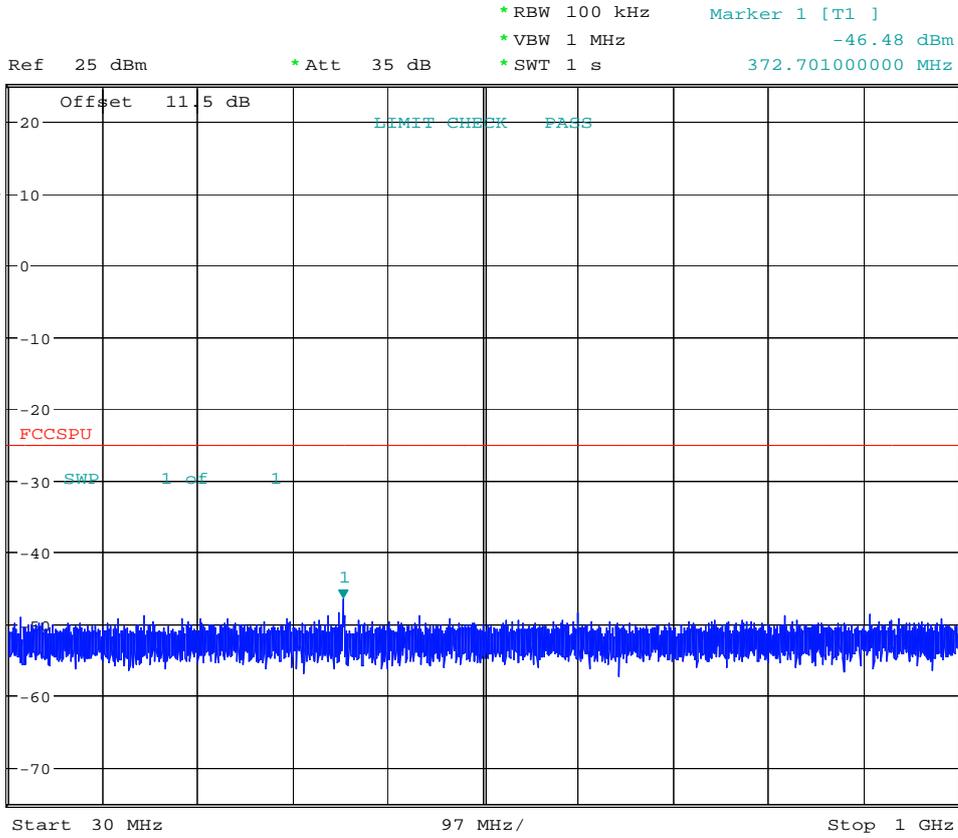
\*RBW 1 kHz                      Marker 1 [T1 ]  
 \*VBW 10 kHz                    -54.83 dBm  
 \*SWT 1 s                         10.353600000 kHz  
 Ref 25 dBm                      \*Att 35 dB



PO

Date: 18.MAR.2011 15:26:20



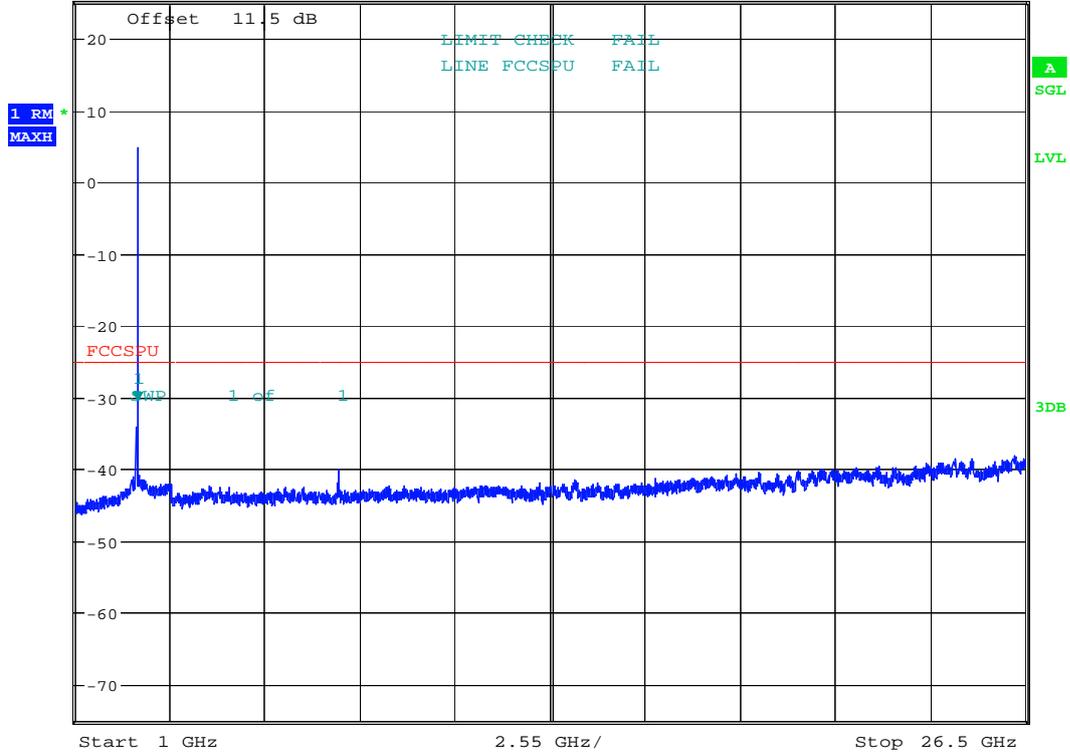


PO

Date: 18.MAR.2011 15:26:30



\* RBW 1 MHz                      Marker 1 [T1 ]  
 \* VBW 3 MHz                      -30.66 dBm  
 \* SWT 1 s                          2.675350000 GHz  
 Ref 25 dBm                      \* Att 35 dB



PO

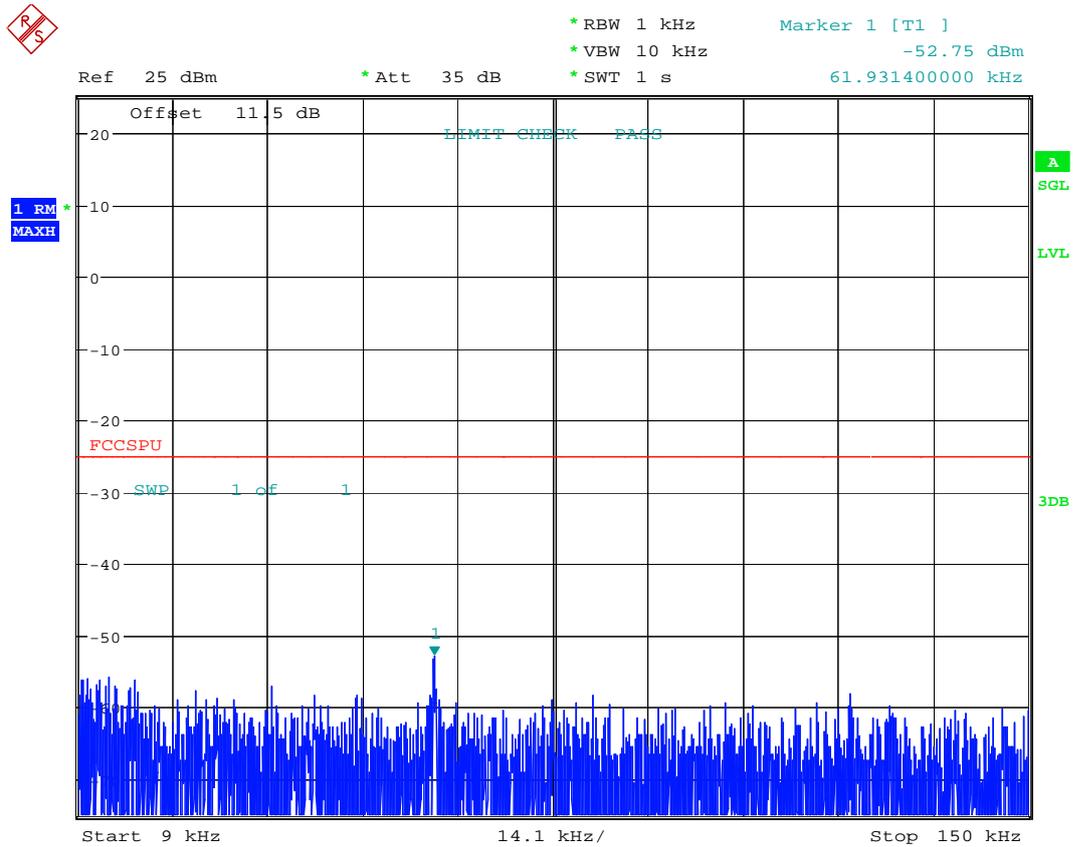
Date: 18.MAR.2011 15:26:36



## 2. Channel Bandwidth = 10 MHz

### 1) TM 1

B

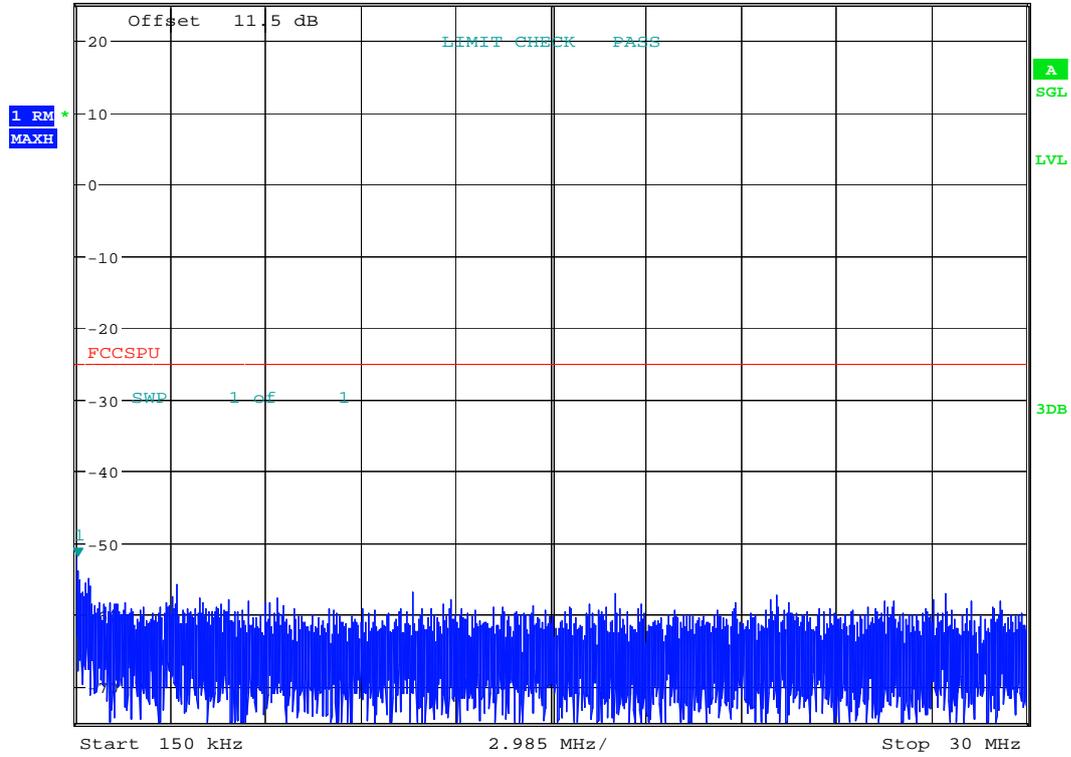


PO

Date: 18.MAR.2011 18:21:42

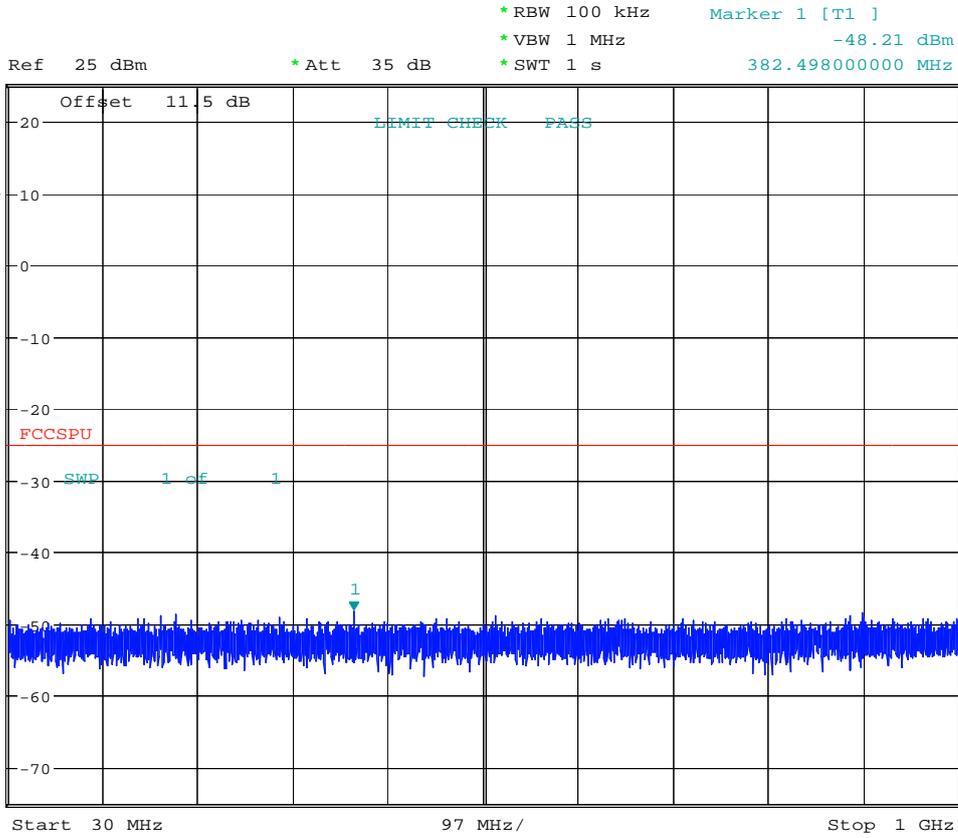


\*RBW 10 kHz      Marker 1 [T1 ]  
 \*VBW 100 kHz      -51.92 dBm  
 \*SWT 1 s      179.85000000 kHz  
 Ref 25 dBm      \*Att 35 dB



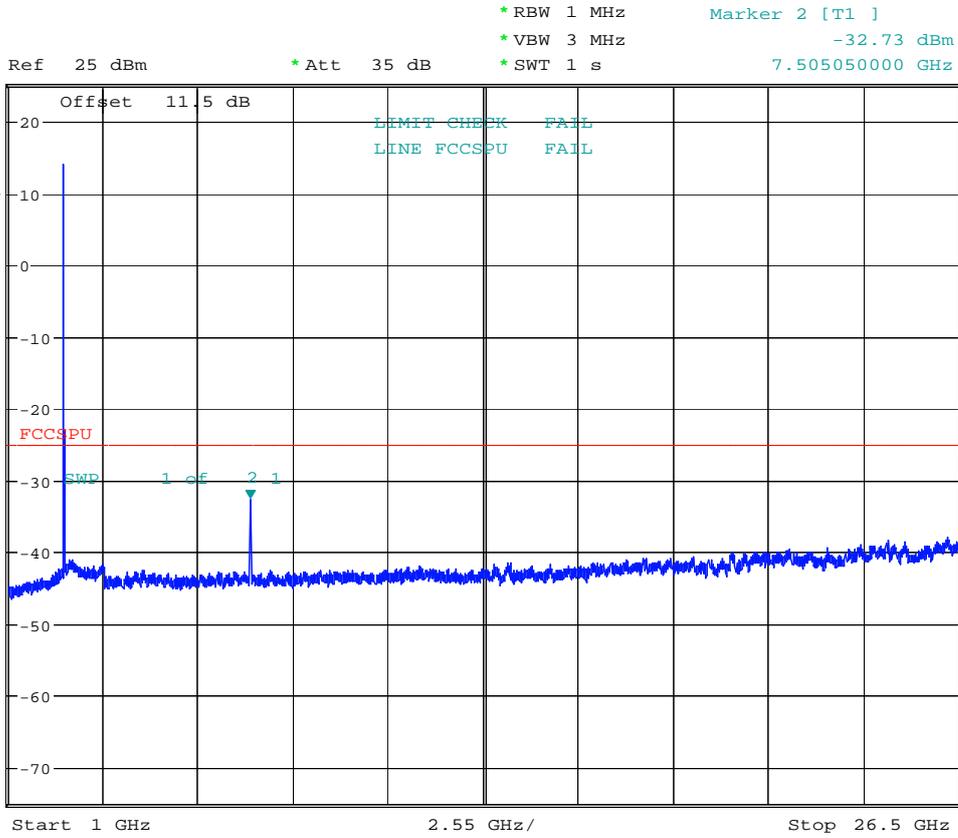
PO

Date: 18.MAR.2011 18:21:47



PO

Date: 18.MAR.2011 18:21:51



PO

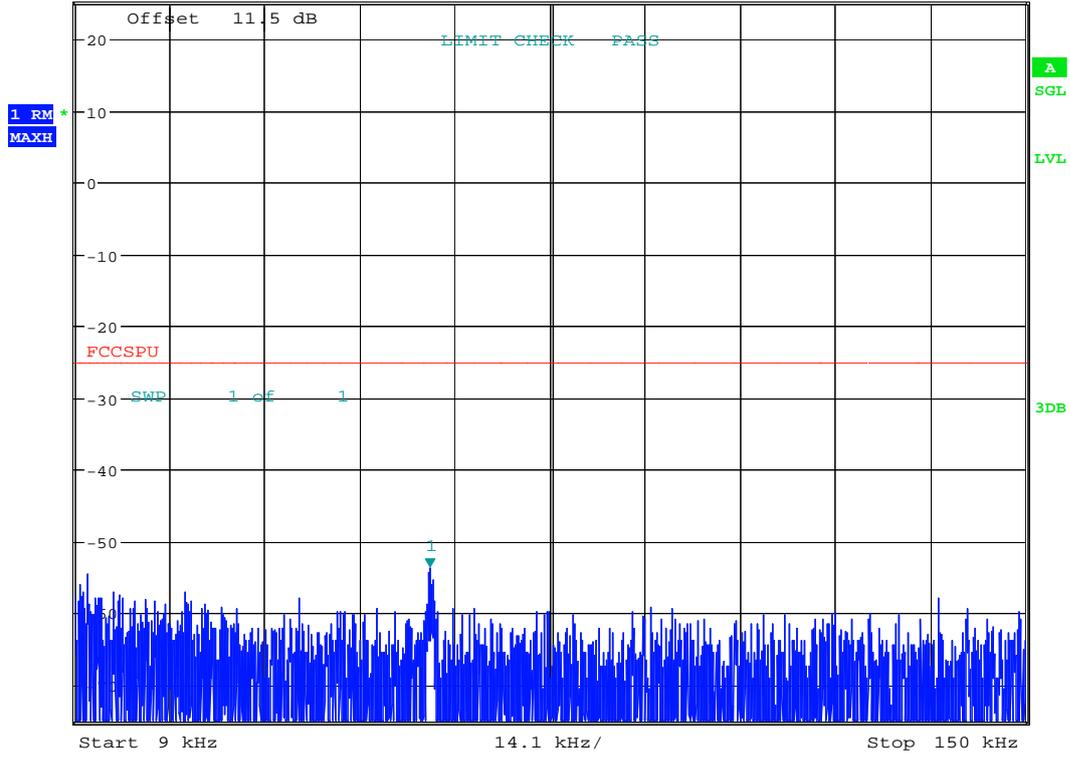
Date: 18.MAR.2011 18:21:57



# M



\*RBW 1 kHz      Marker 1 [T1 ]  
 \*VBW 10 kHz      -53.60 dBm  
 \*SWT 1 s      61.719900000 kHz  
 Ref 25 dBm      \*Att 35 dB

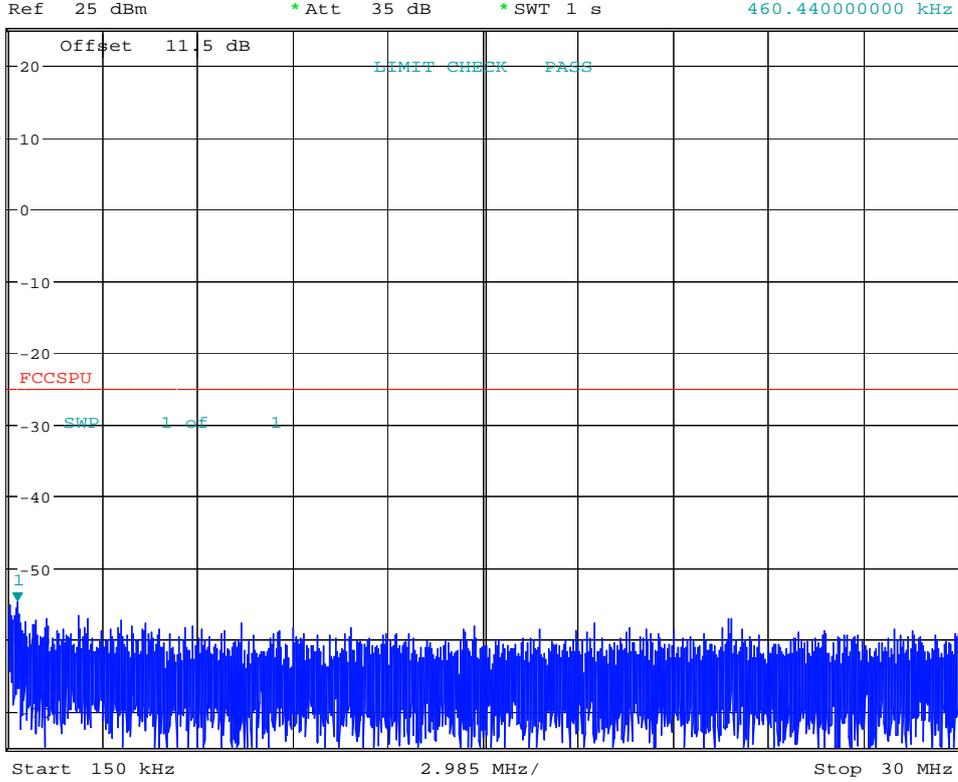


PO

Date: 18.MAR.2011 18:20:49



\*RBW 10 kHz      Marker 1 [T1 ]  
 \*VBW 100 kHz      -54.62 dBm  
 \*SWT 1 s      460.44000000 kHz

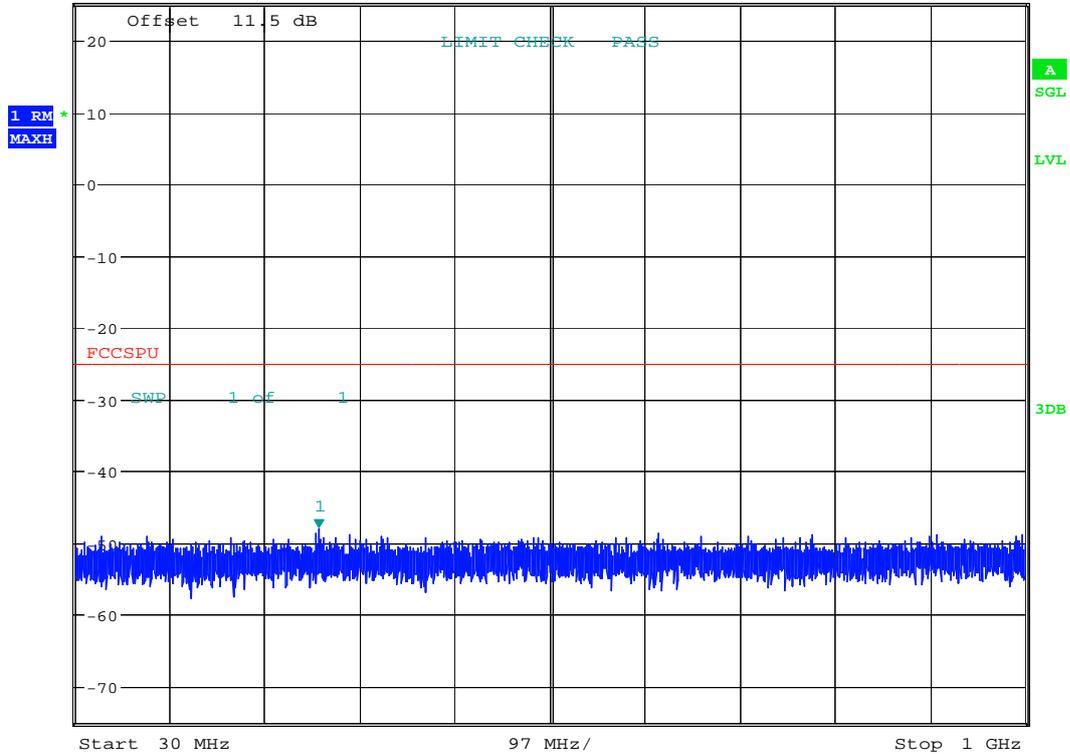


PO

Date: 18.MAR.2011 18:20:54



\*RBW 100 kHz      Marker 1 [T1 ]  
 \*VBW 1 MHz      -47.99 dBm  
 \*SWT 1 s      279.290000000 MHz  
 Ref 25 dBm      \*Att 35 dB

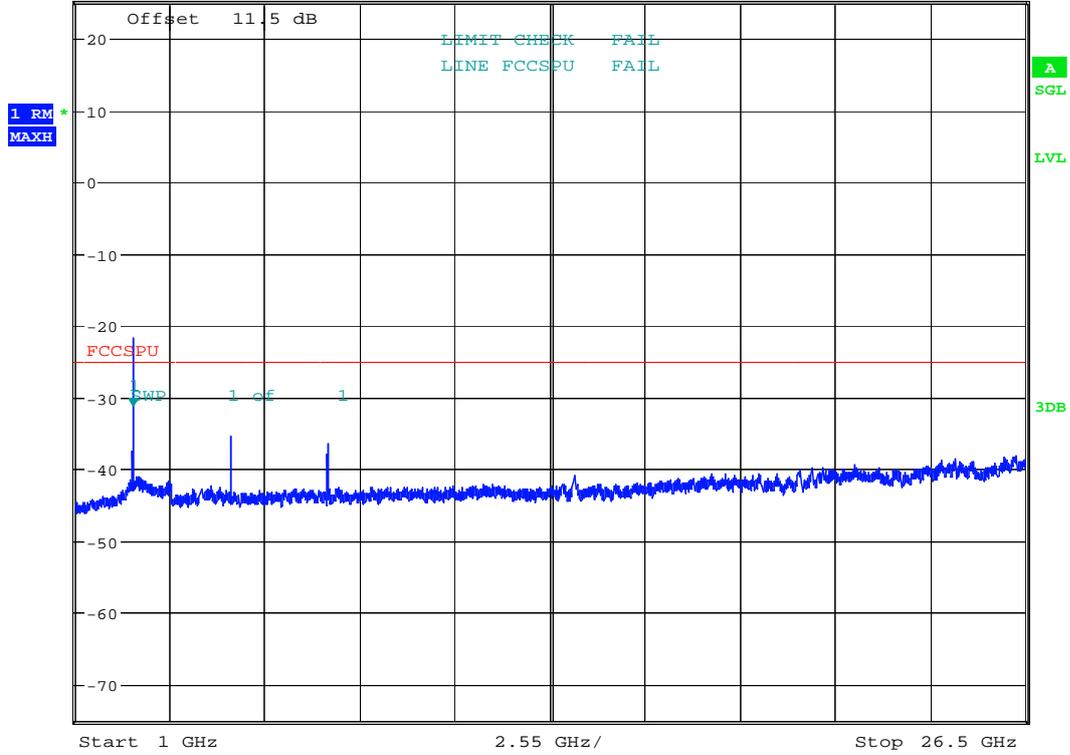


PO

Date: 18.MAR.2011 18:20:58



\* RBW 1 MHz      Marker 1 [T1 ]  
 \* VBW 3 MHz      -31.49 dBm  
 \* SWT 1 s      2.56825000 GHz  
 Ref 25 dBm      \* Att 35 dB



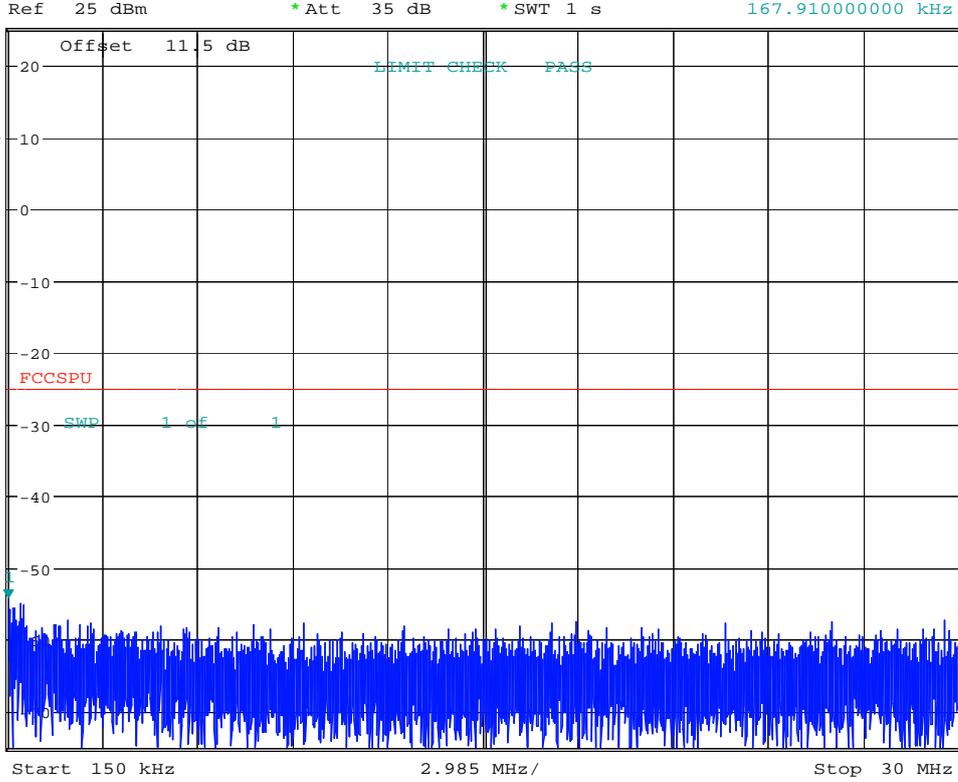
PO

Date: 18.MAR.2011 18:21:04





\*RBW 10 kHz      Marker 1 [T1 ]  
 \*VBW 100 kHz      -54.33 dBm  
 \*SWT 1 s      167.91000000 kHz

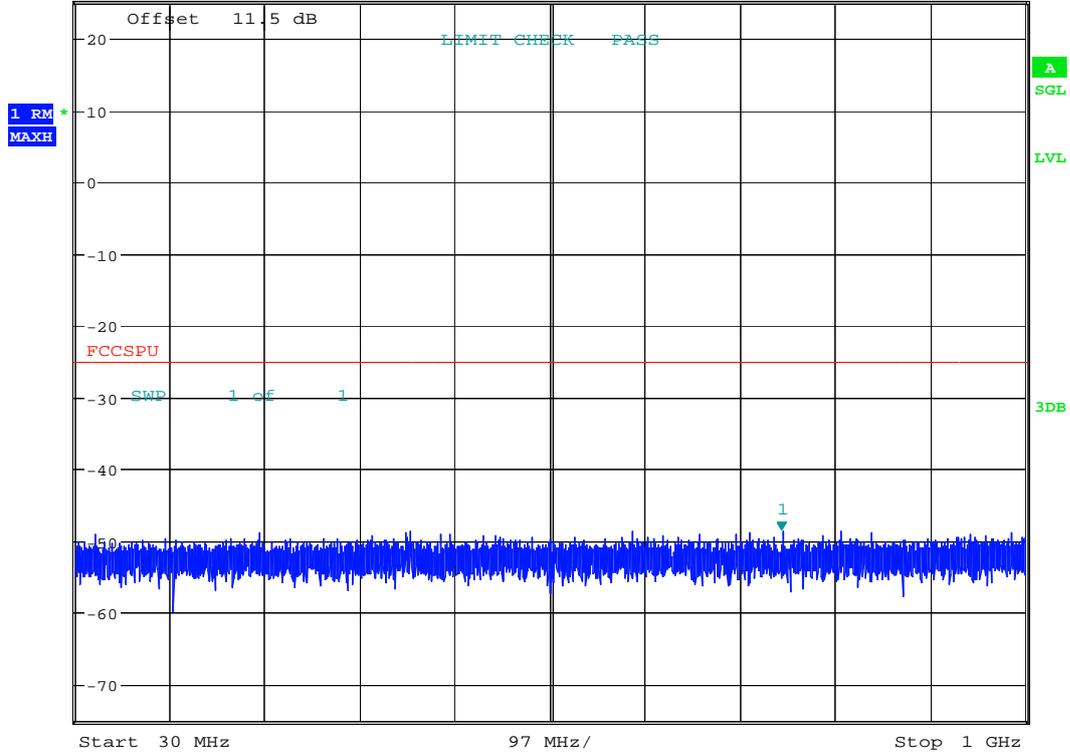


PO

Date: 18.MAR.2011 18:20:01



\*RBW 100 kHz      Marker 1 [T1 ]  
 \*VBW 1 MHz      -48.54 dBm  
 \*SWT 1 s      751.874000000 MHz  
 Ref 25 dBm      \*Att 35 dB

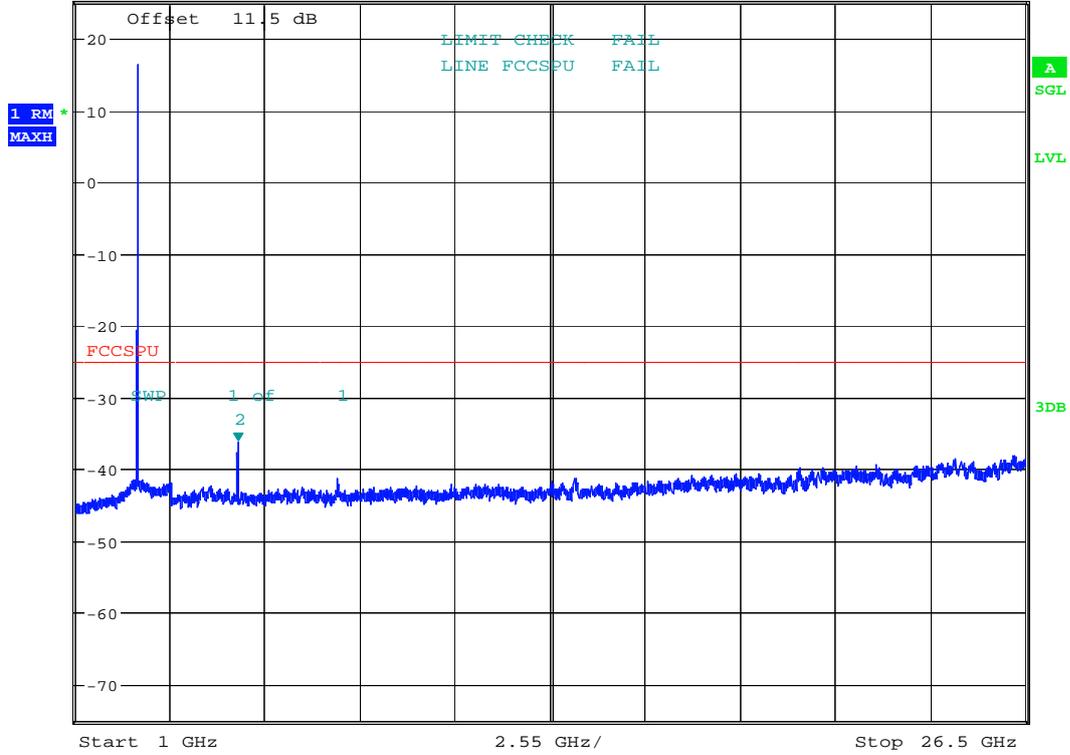


PO

Date: 18.MAR.2011 18:20:06



Ref 25 dBm \* Att 35 dB \* RBW 1 MHz \* VBW 3 MHz \* SWT 1 s  
Marker 2 [T1 ] -36.15 dBm  
5.370700000 GHz



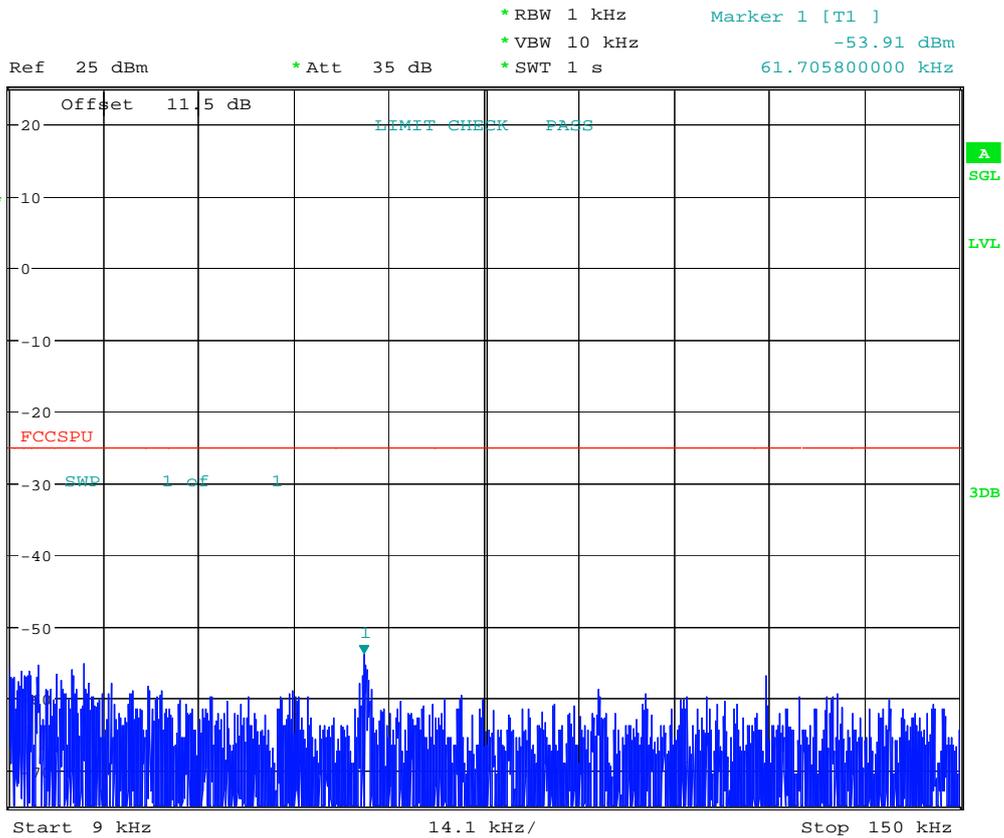
PO

Date: 18.MAR.2011 18:20:11



## 2) TM 2

### B

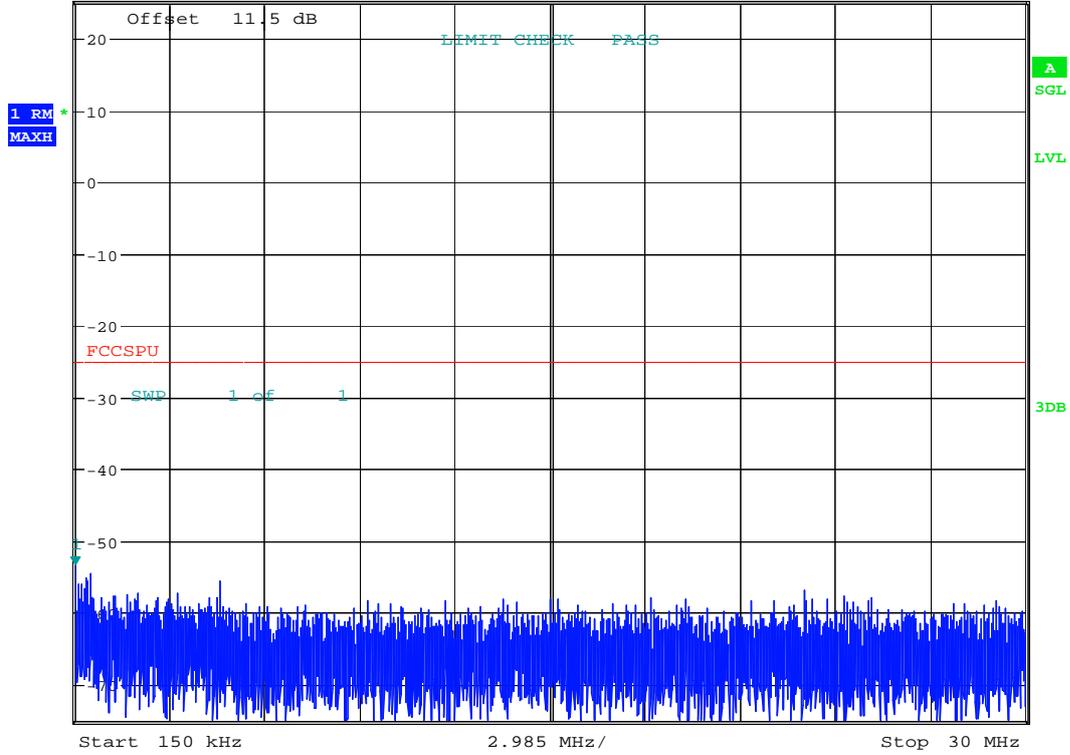


PO

Date: 18.MAR.2011 18:24:20



\*RBW 10 kHz      Marker 1 [T1 ]  
 \*VBW 100 kHz      -53.38 dBm  
 \*SWT 1 s      167.91000000 kHz  
 Ref 25 dBm      \*Att 35 dB

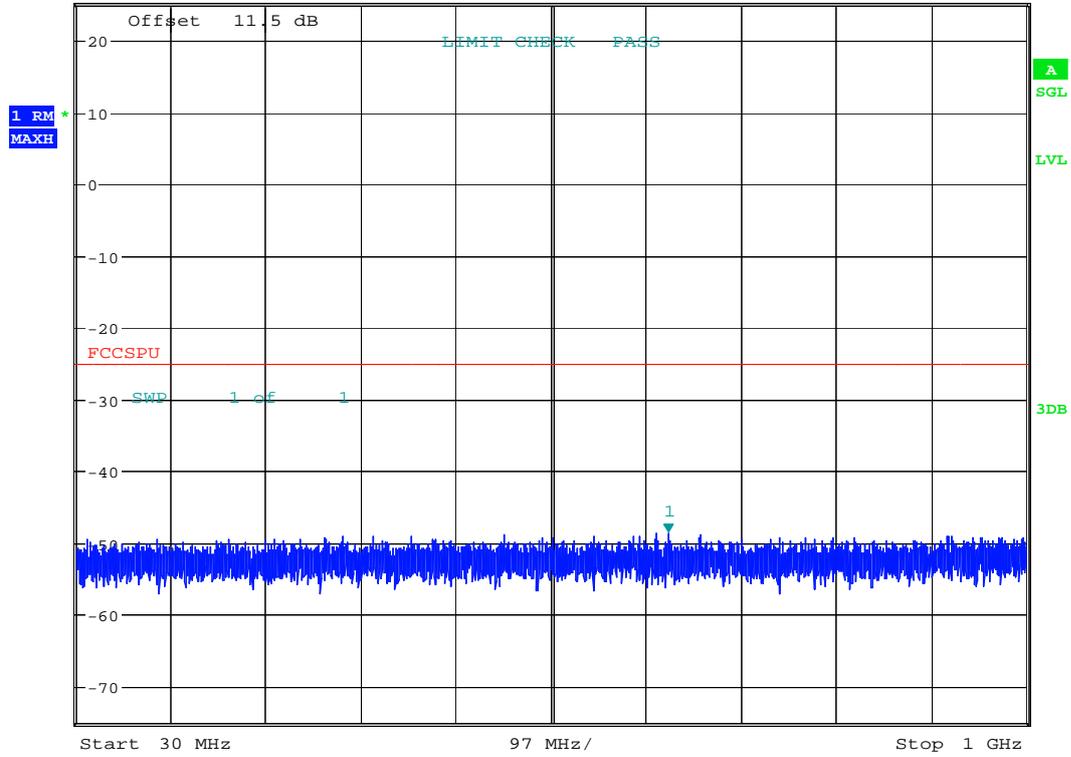


PO

Date: 18.MAR.2011 18:24:25



Ref 25 dBm      \*Att 35 dB      \*RBW 100 kHz      Marker 1 [T1 ]  
 \*VBW 1 MHz      -48.60 dBm  
 \*SWT 1 s      634.019000000 MHz



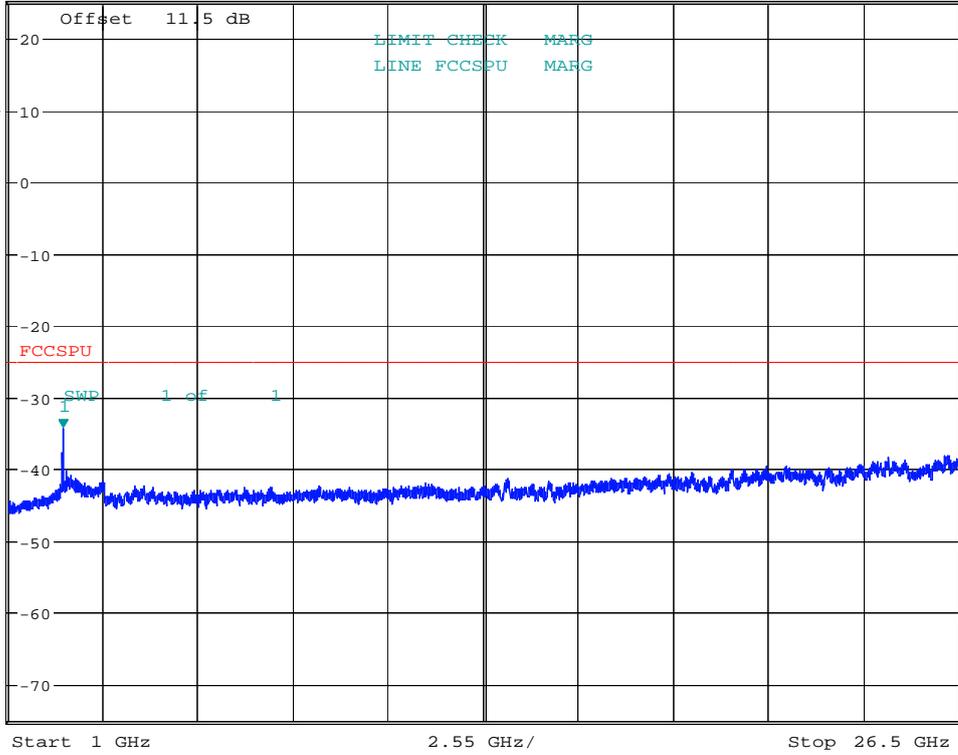
PO

Date: 18.MAR.2011 18:24:30



\* RBW 1 MHz      Marker 1 [T1 ]  
 \* VBW 3 MHz      -34.25 dBm  
 \* SWT 1 s      2.473900000 GHz  
 Ref 25 dBm      \* Att 35 dB

1 RM  
MAXH



PO

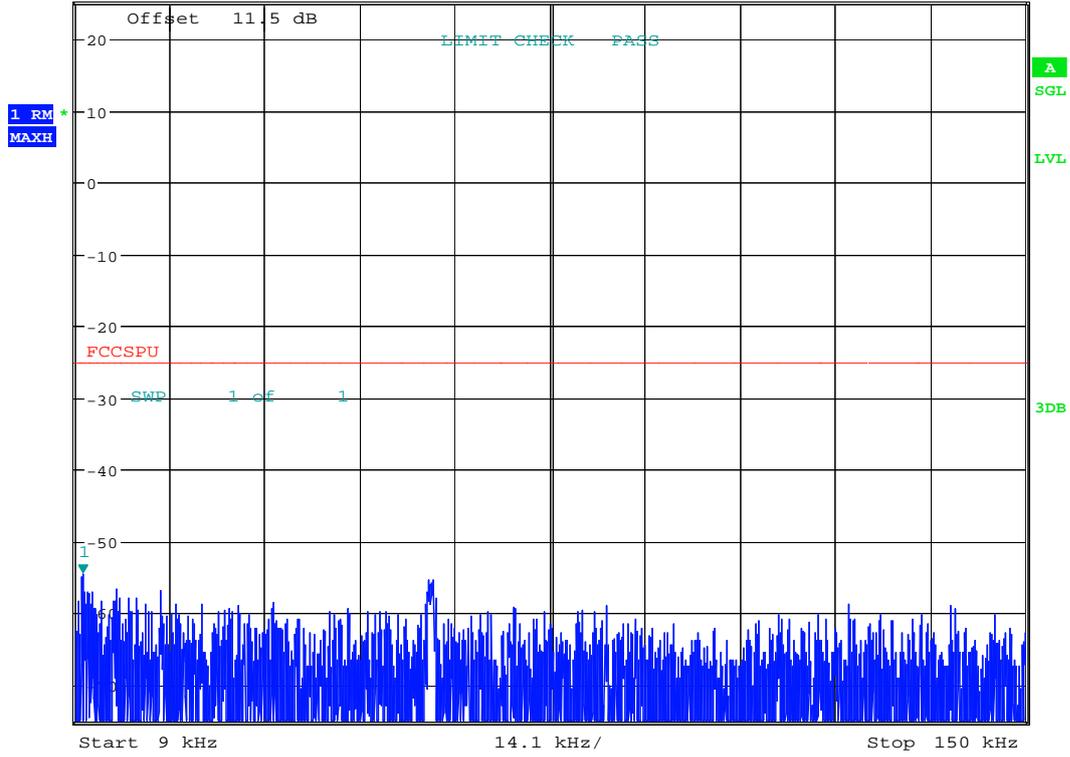
Date: 18.MAR.2011 18:24:36



# M



\*RBW 1 kHz                      Marker 1 [T1 ]  
 \*VBW 10 kHz                     -54.48 dBm  
 \*SWT 1 s                            10.142100000 kHz  
 Ref 25 dBm                        \*Att 35 dB

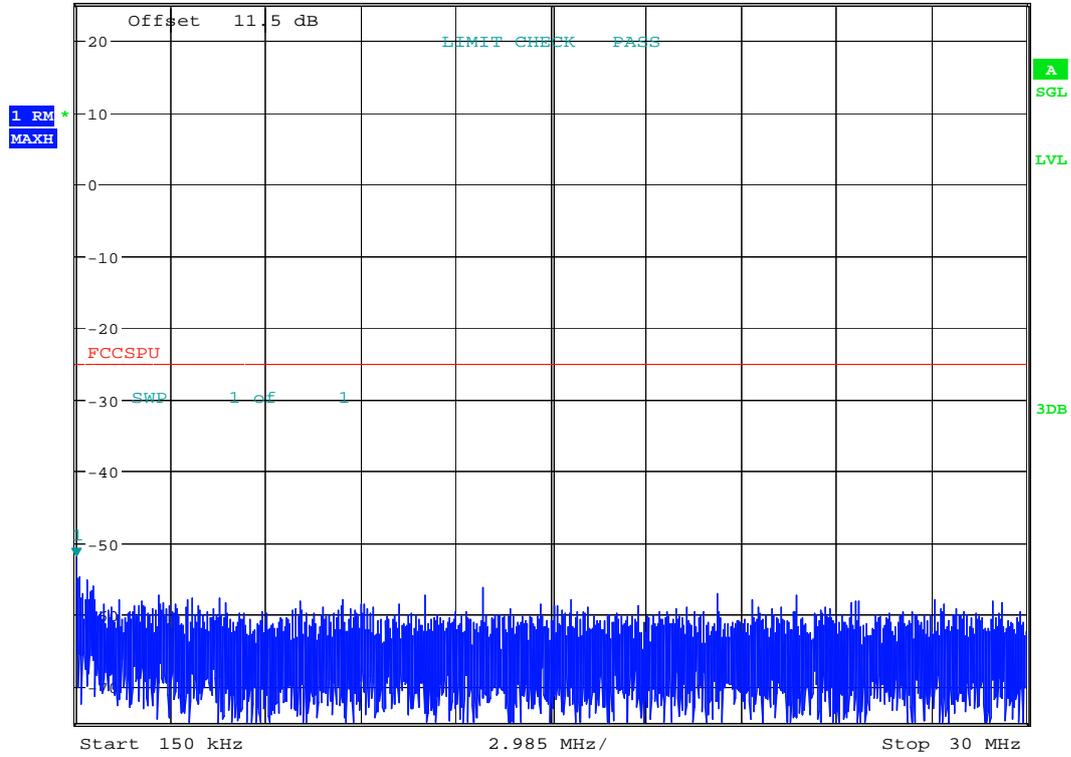


PO

Date: 18.MAR.2011 18:23:27



\*RBW 10 kHz      Marker 1 [T1 ]  
 \*VBW 100 kHz      -52.09 dBm  
 \*SWT 1 s      150.00000000 kHz  
 Ref 25 dBm      \*Att 35 dB

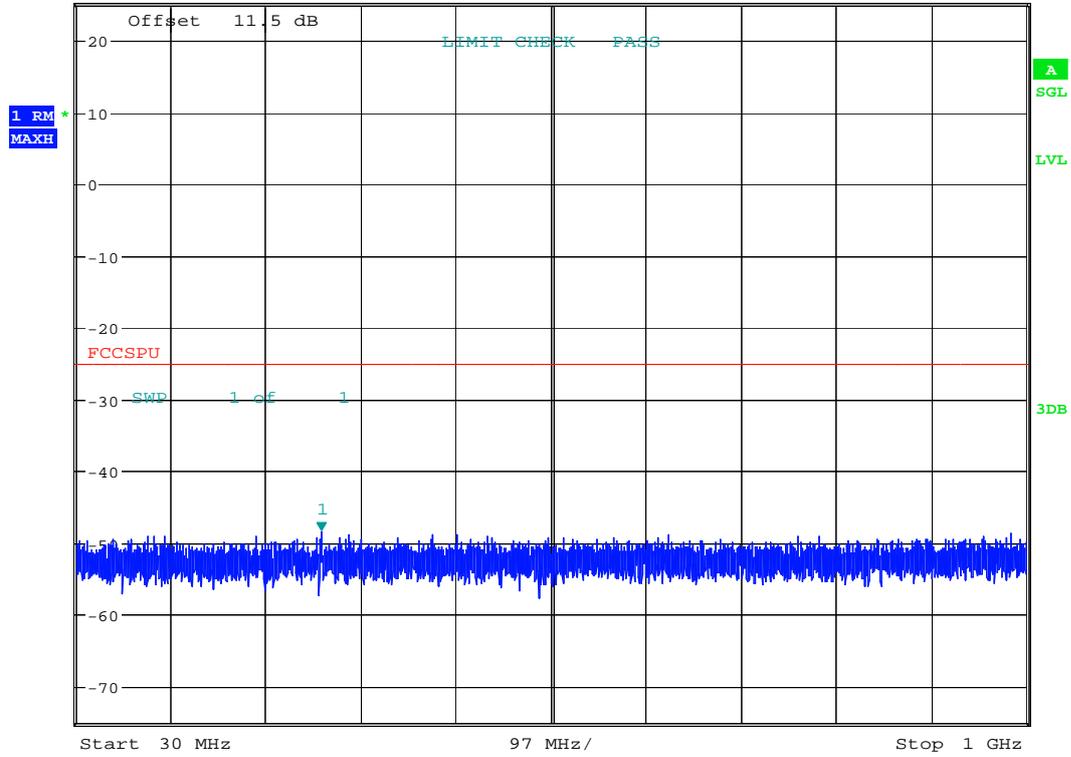


PO

Date: 18.MAR.2011 18:23:32



Ref 25 dBm      \* Att 35 dB      \* RBW 100 kHz      Marker 1 [T1 ]  
 \* VBW 1 MHz      -48.35 dBm  
 \* SWT 1 s      280.26000000 MHz

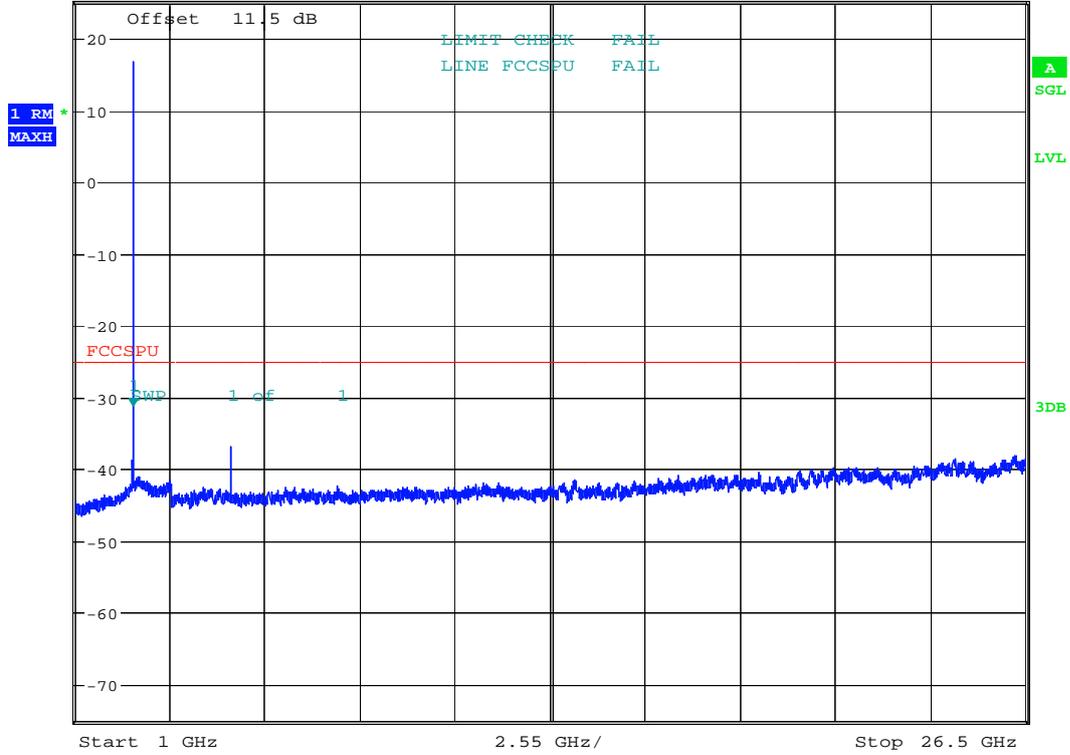


PO

Date: 18.MAR.2011 18:23:37



\* RBW 1 MHz      Marker 1 [T1 ]  
 \* VBW 3 MHz      -31.36 dBm  
 \* SWT 1 s      2.56825000 GHz  
 Ref 25 dBm      \* Att 35 dB



PO

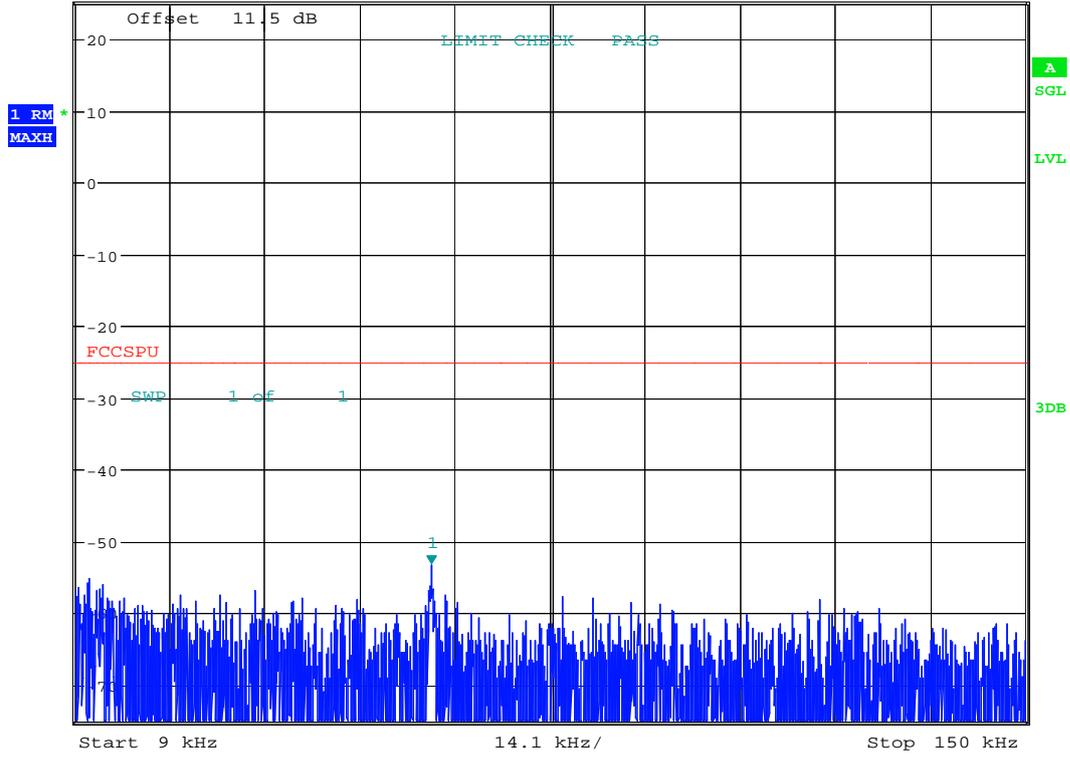
Date: 18.MAR.2011 18:23:43



T

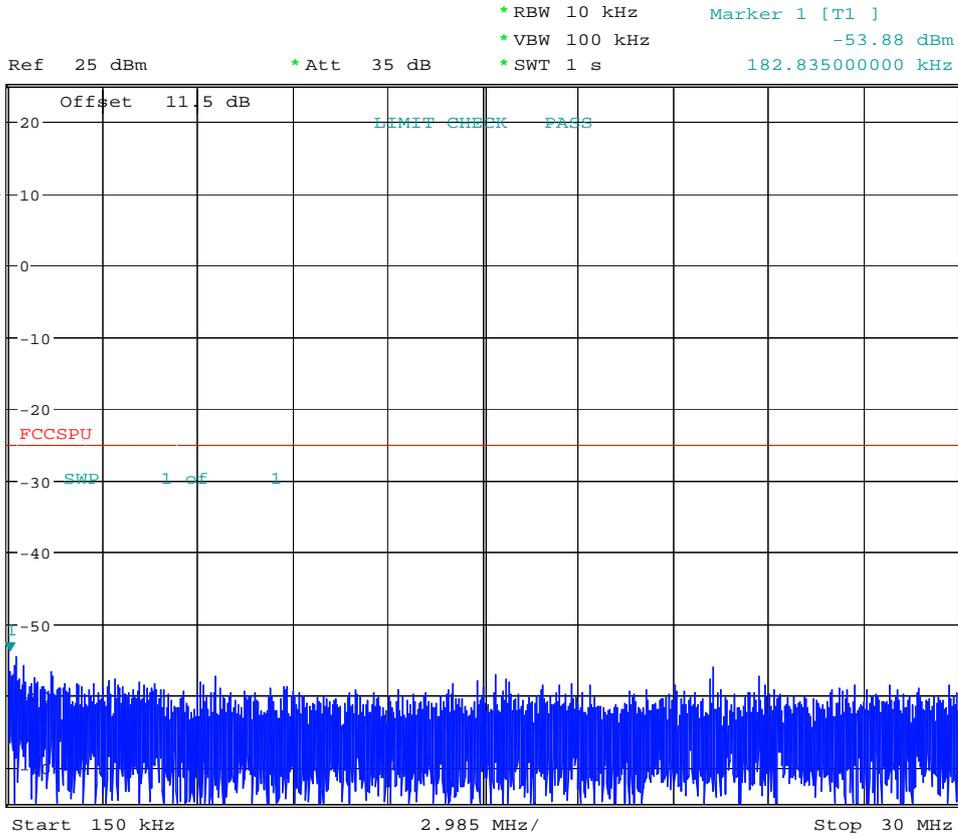


\*RBW 1 kHz                      Marker 1 [T1 ]  
 \*VBW 10 kHz                    -53.23 dBm  
 \*SWT 1 s                         61.959600000 kHz  
 Ref 25 dBm                      \*Att 35 dB



PO

Date: 18.MAR.2011 18:22:35

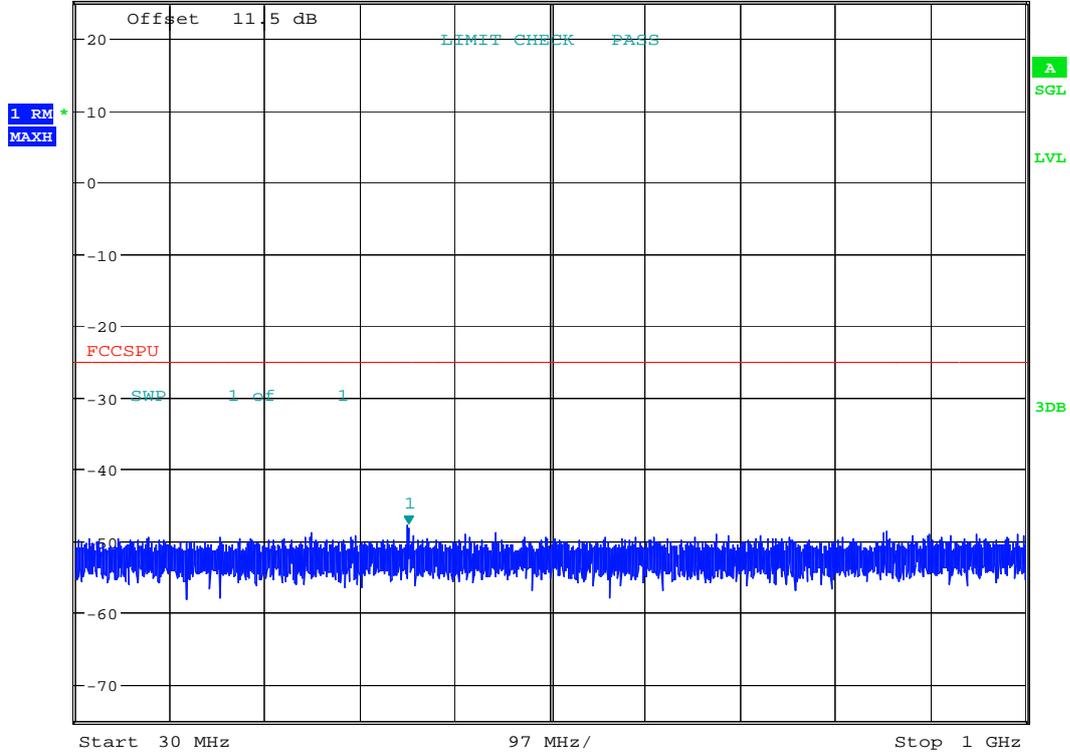


PO

Date: 18.MAR.2011 18:22:39



\*RBW 100 kHz      Marker 1 [T1 ]  
 \*VBW 1 MHz      -47.76 dBm  
 \*SWT 1 s      369.694000000 MHz  
 Ref 25 dBm      \*Att 35 dB

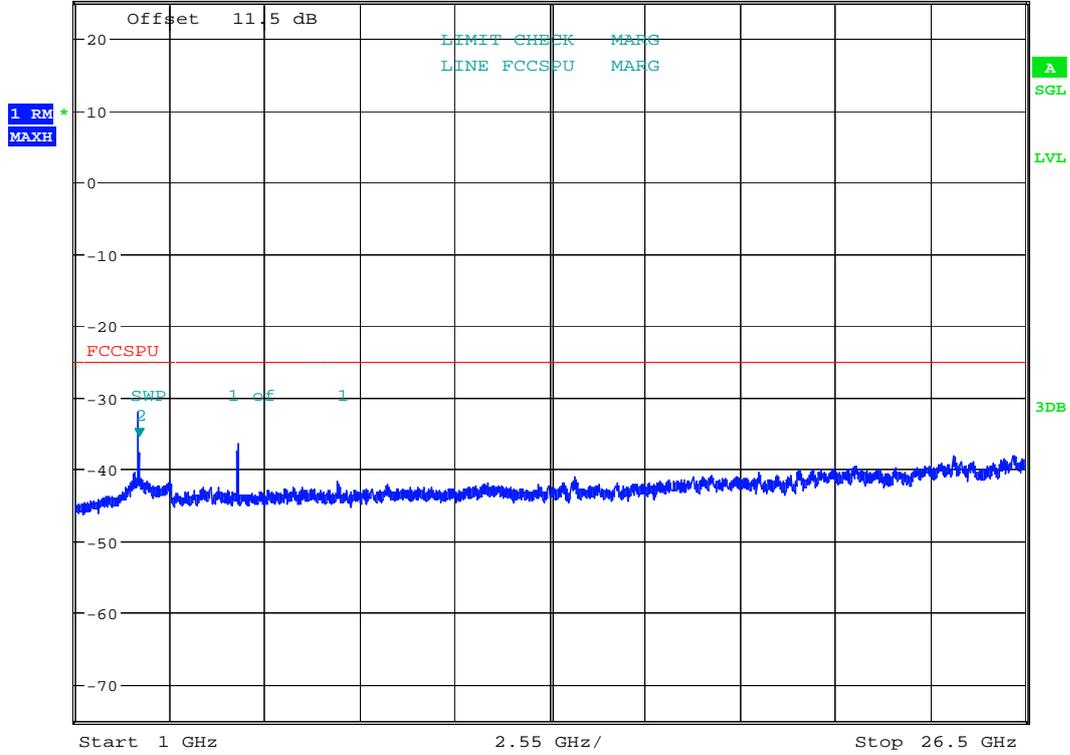


PO

Date: 18.MAR.2011 18:22:44



\* RBW 1 MHz      Marker 2 [T1 ]  
 \* VBW 3 MHz      -35.62 dBm  
 \* SWT 1 s          2.711050000 GHz  
 Ref 25 dBm      \* Att 35 dB



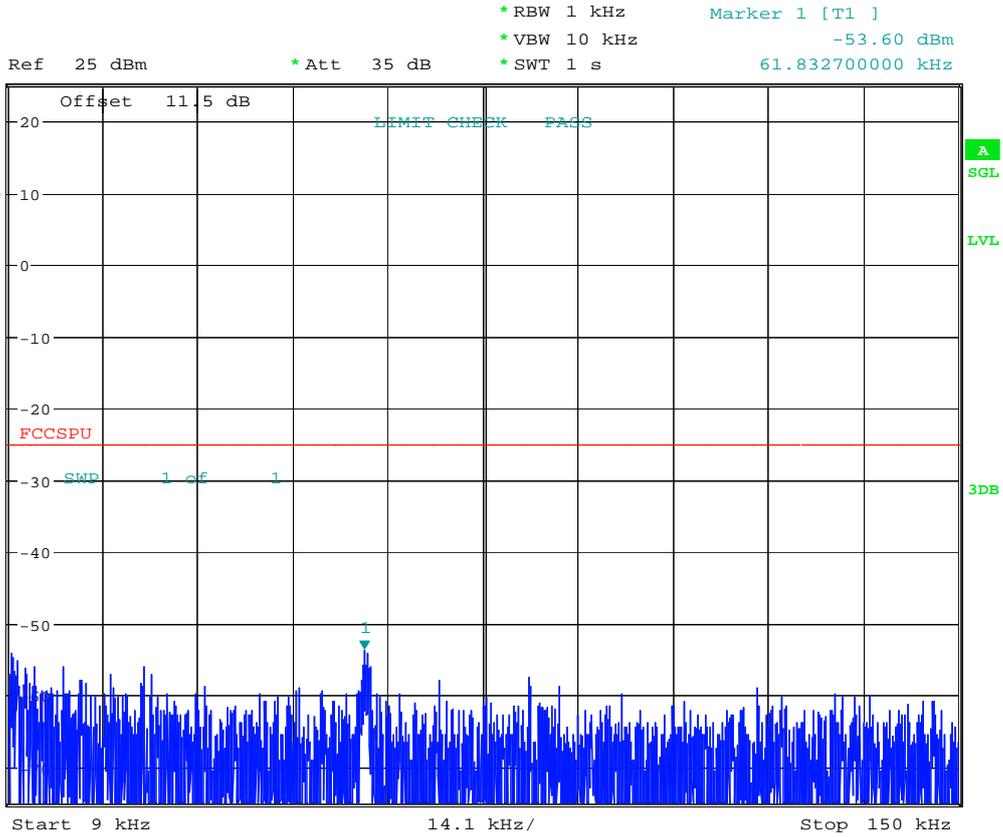
PO

Date: 18.MAR.2011 18:22:50



### 3) TM 3

## B



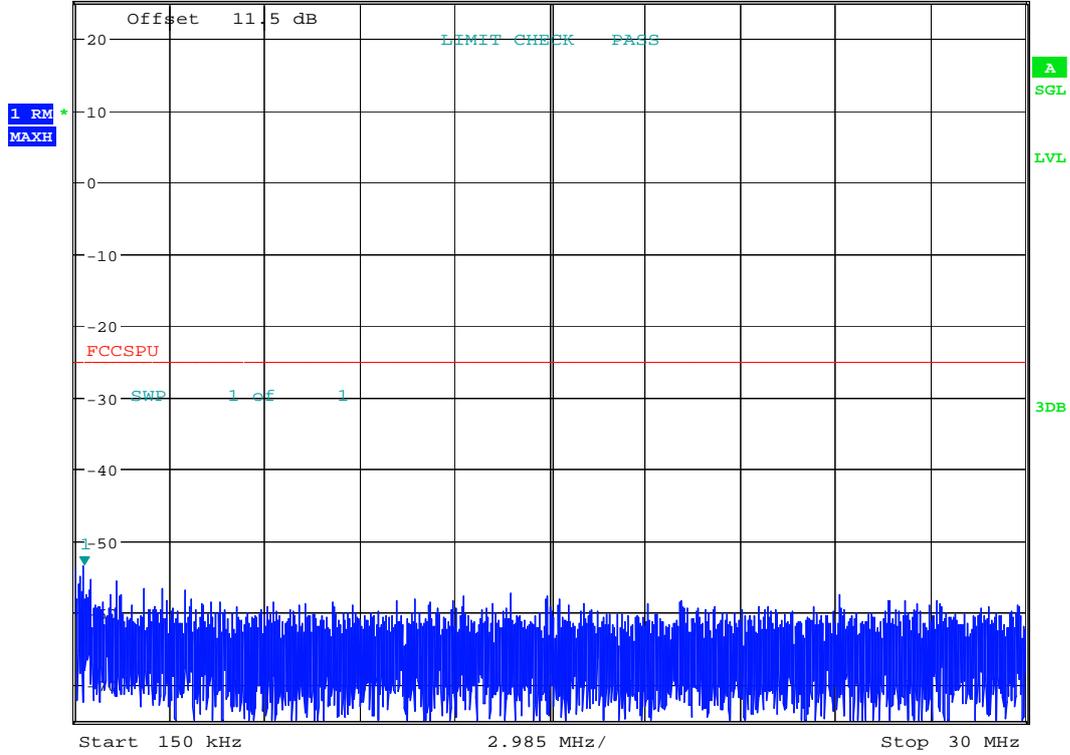
PO

Date: 18.MAR.2011 18:26:59



\*RBW 10 kHz      Marker 1 [T1 ]  
 \*VBW 100 kHz      -53.46 dBm  
 \*SWT 1 s      427.605000000 kHz

Ref 25 dBm      \*Att 35 dB

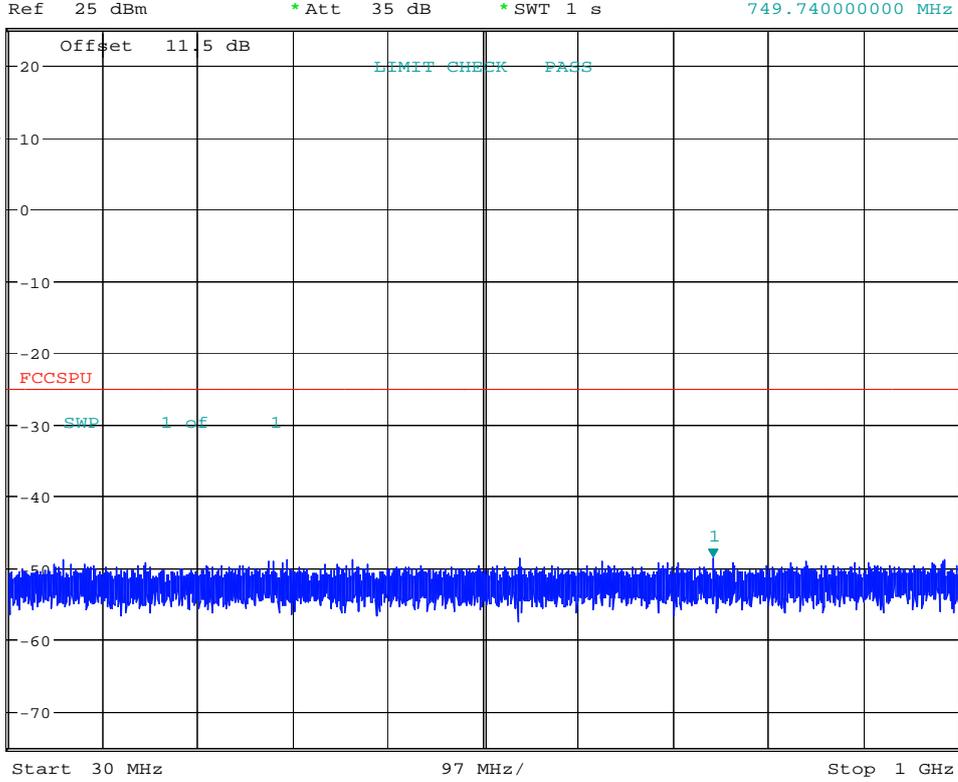


PO

Date: 18.MAR.2011 18:27:04

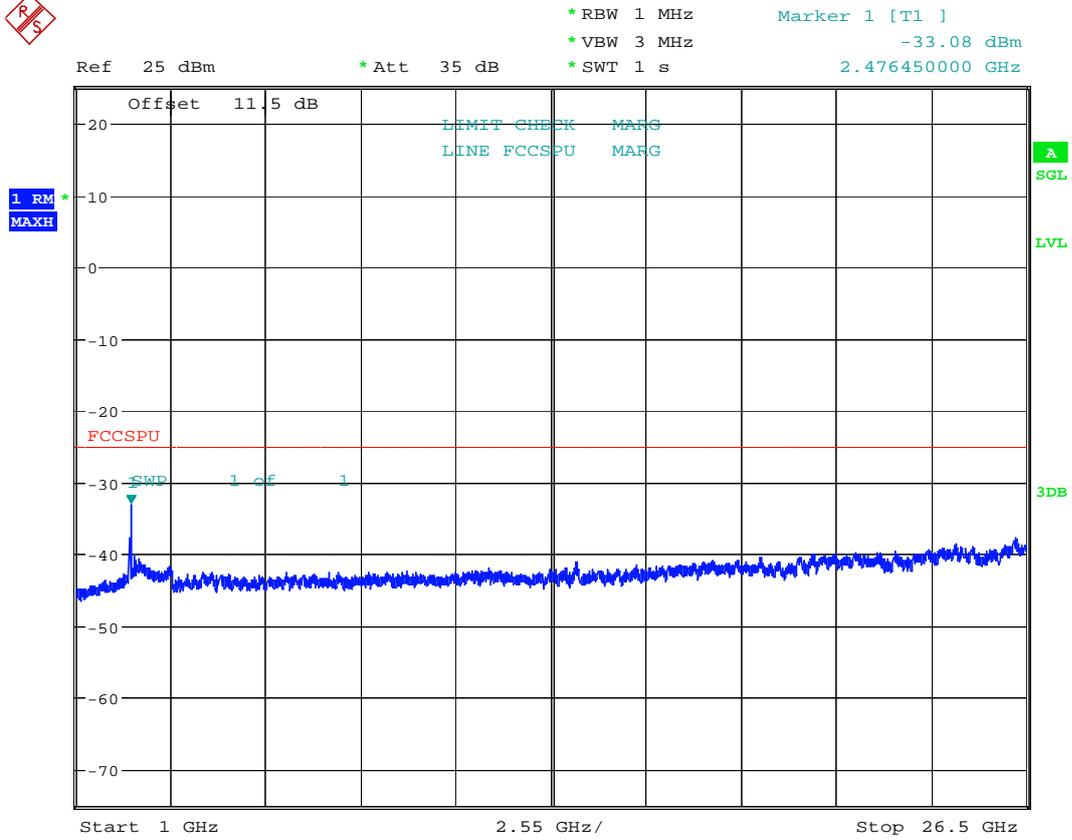


\*RBW 100 kHz      Marker 1 [T1 ]  
 \*VBW 1 MHz      -48.57 dBm  
 \*SWT 1 s      749.74000000 MHz



PO

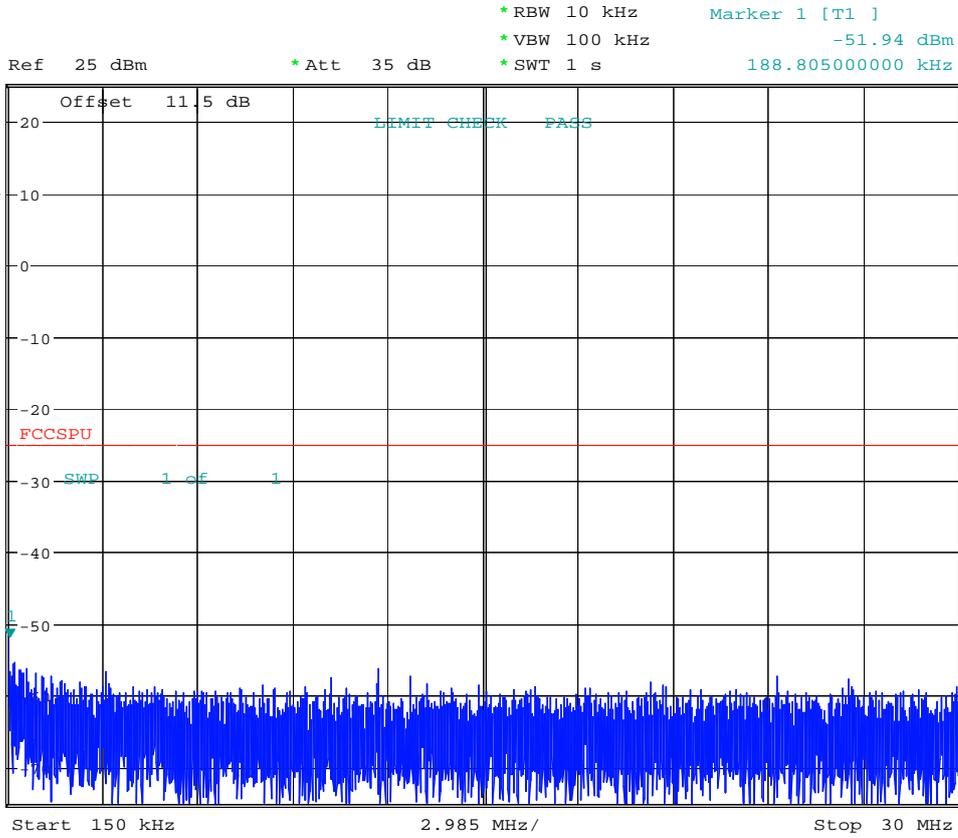
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PO

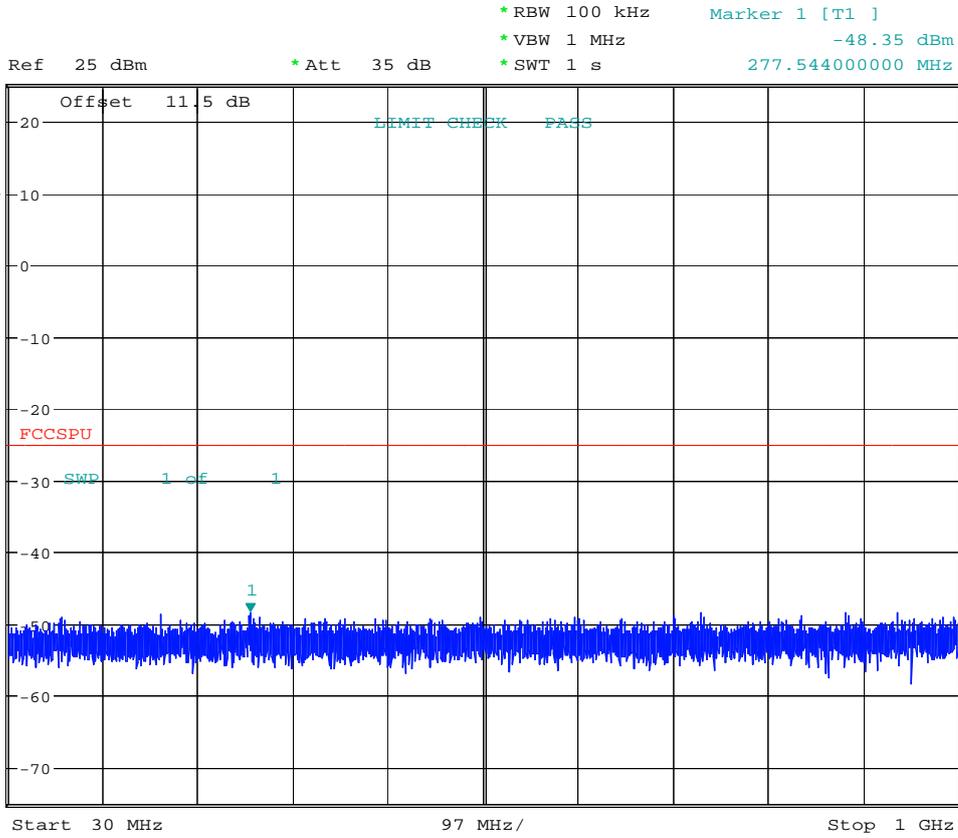
Date: 18.MAR.2011 18:27:14





PO

Date: 18.MAR.2011 18:26:11

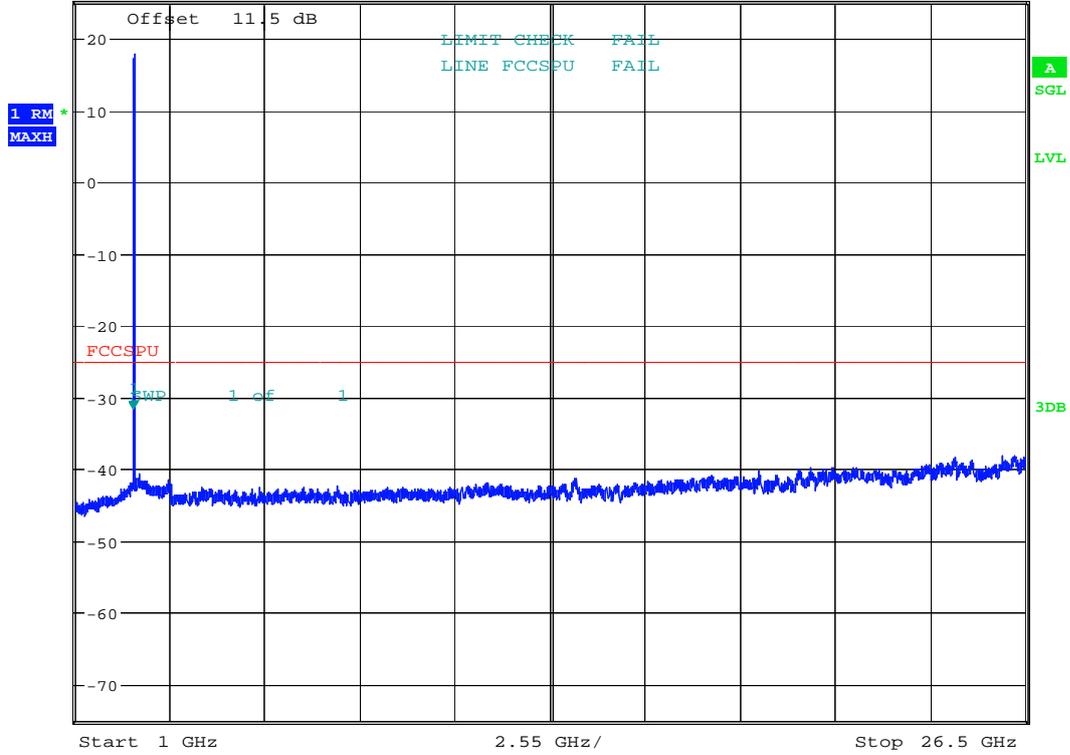


PO

Date: 18.MAR.2011 18:26:16



\* RBW 1 MHz                      Marker 1 [T1 ]  
 \* VBW 3 MHz                      -31.79 dBm  
 \* SWT 1 s                              2.56825000 GHz  
 Ref 25 dBm                      \* Att 35 dB



PO

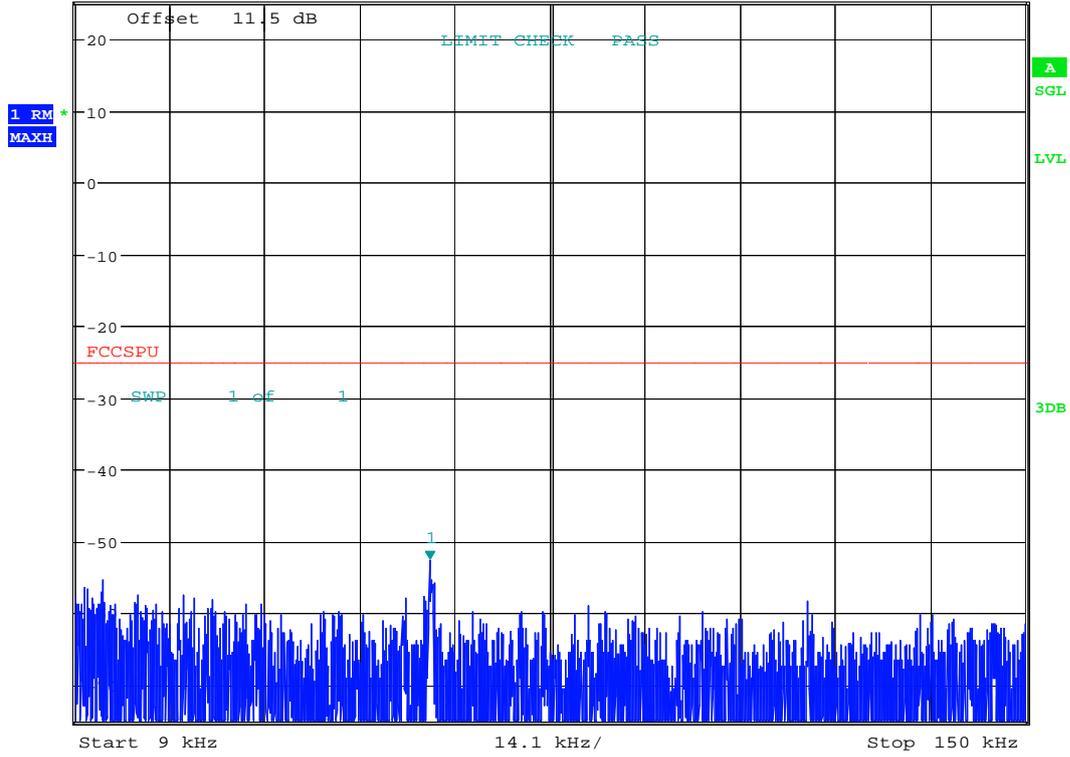
Date: 18.MAR.2011 18:26:21



# T



\*RBW 1 kHz                      Marker 1 [T1 ]  
 \*VBW 10 kHz                    -52.70 dBm  
 \*SWT 1 s                         61.734000000 kHz  
 Ref 25 dBm                      \*Att 35 dB

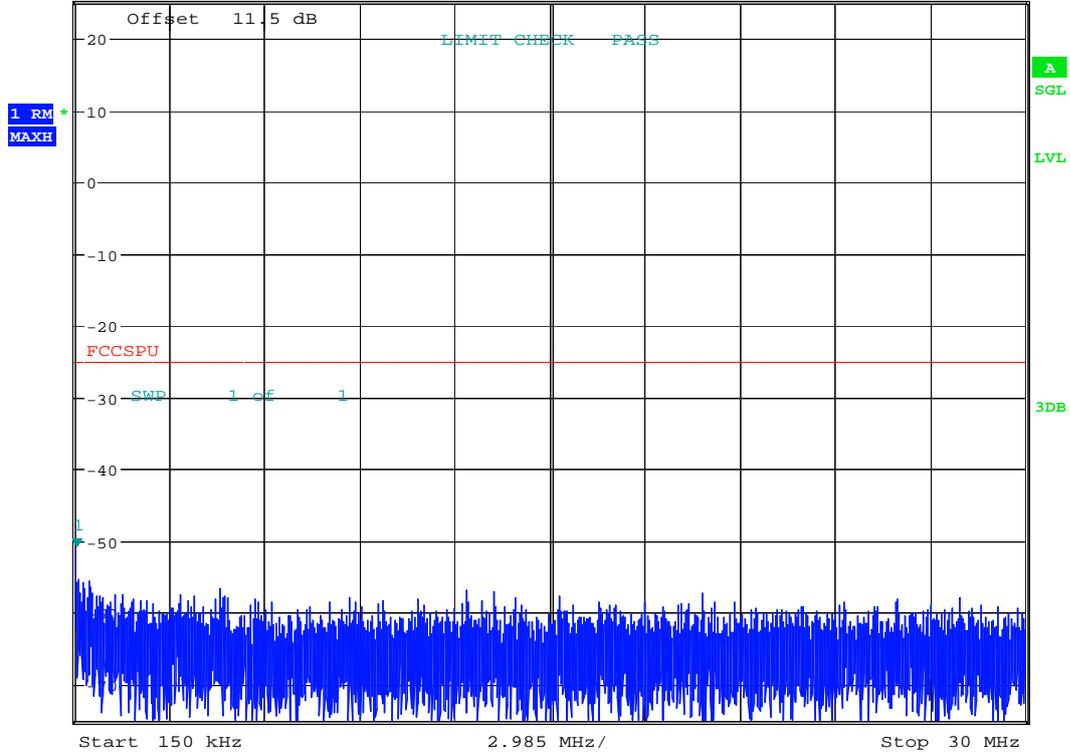


PO

Date: 18.MAR.2011 18:25:13



\*RBW 10 kHz      Marker 1 [T1 ]  
 \*VBW 100 kHz      -50.96 dBm  
 \*SWT 1 s      194.775000000 kHz  
 Ref 25 dBm      \*Att 35 dB

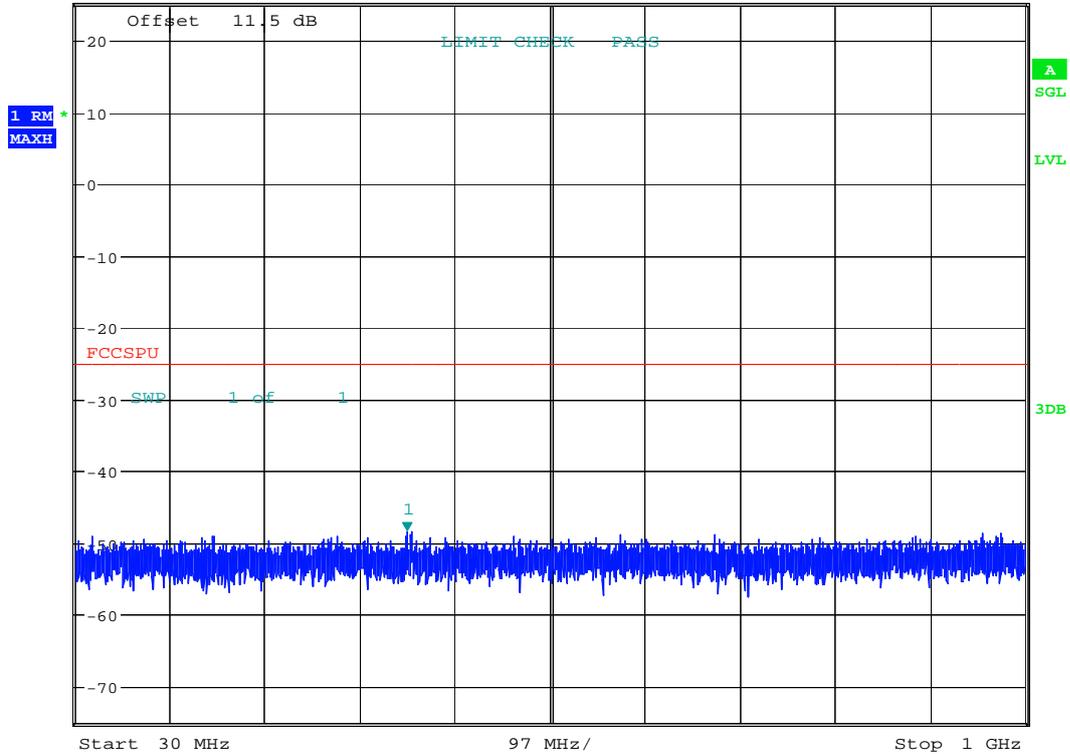


PO

Date: 18.MAR.2011 18:25:18



\*RBW 100 kHz      Marker 1 [T1 ]  
 \*VBW 1 MHz      -48.36 dBm  
 \*SWT 1 s      368.918000000 MHz  
 Ref 25 dBm      \*Att 35 dB

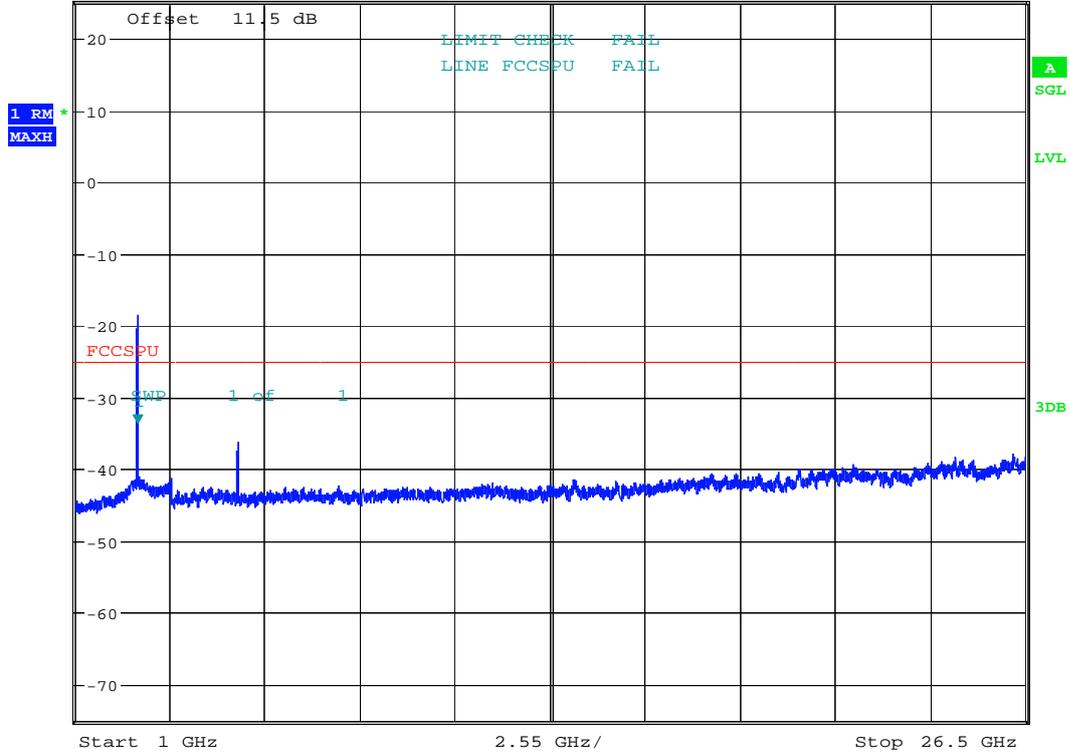


PO

Date: 18.MAR.2011 18:25:23



\* RBW 1 MHz                      Marker 1 [T1 ]  
 \* VBW 3 MHz                      -33.81 dBm  
 \* SWT 1 s                              2.660050000 GHz  
 Ref 25 dBm                      \* Att 35 dB



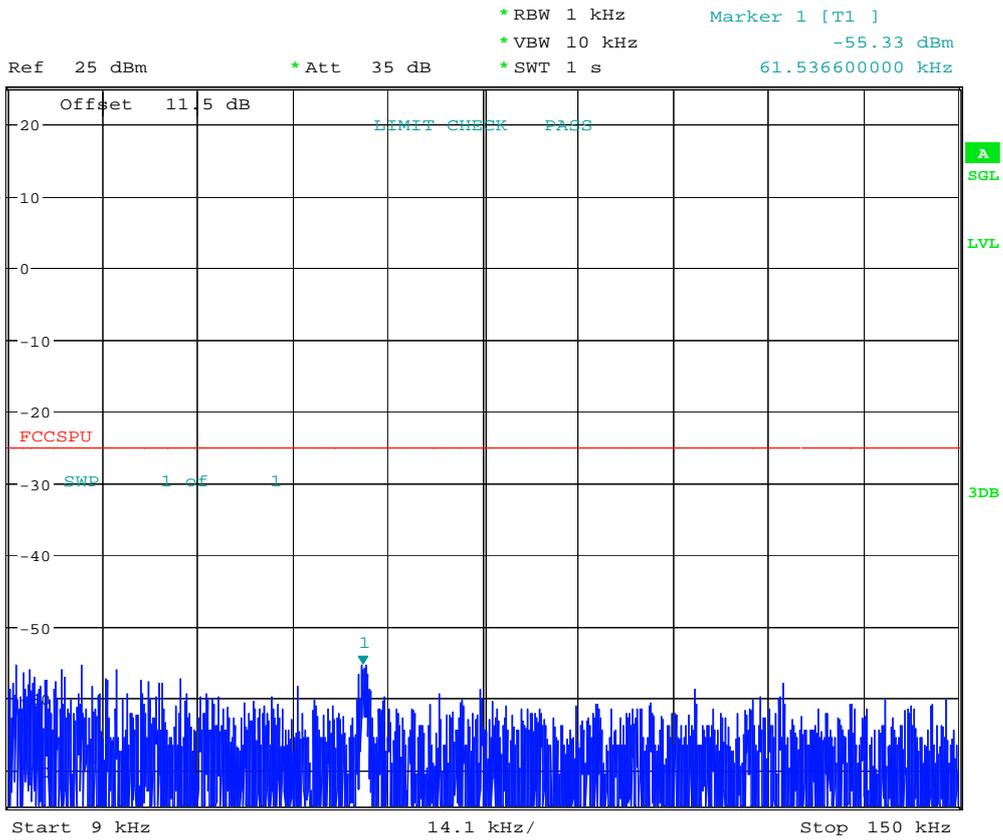
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Date: 18.MAR.2011 18:25:28



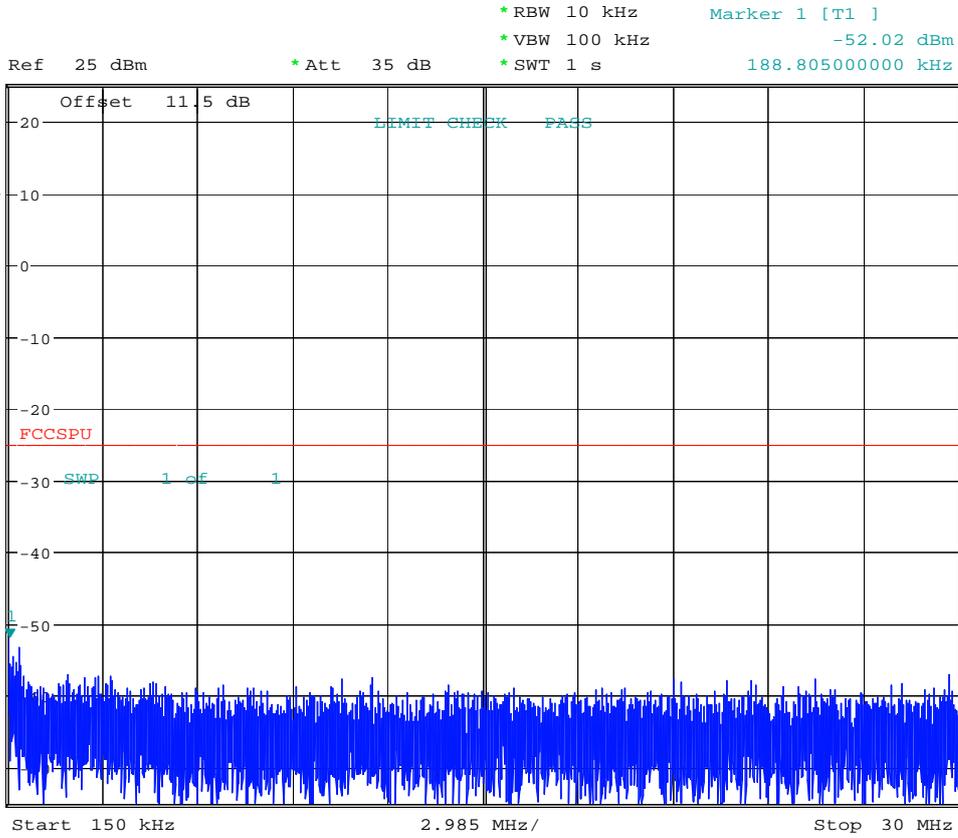
# 4) TM 4

## B



PO

Date: 18.MAR.2011 18:29:38

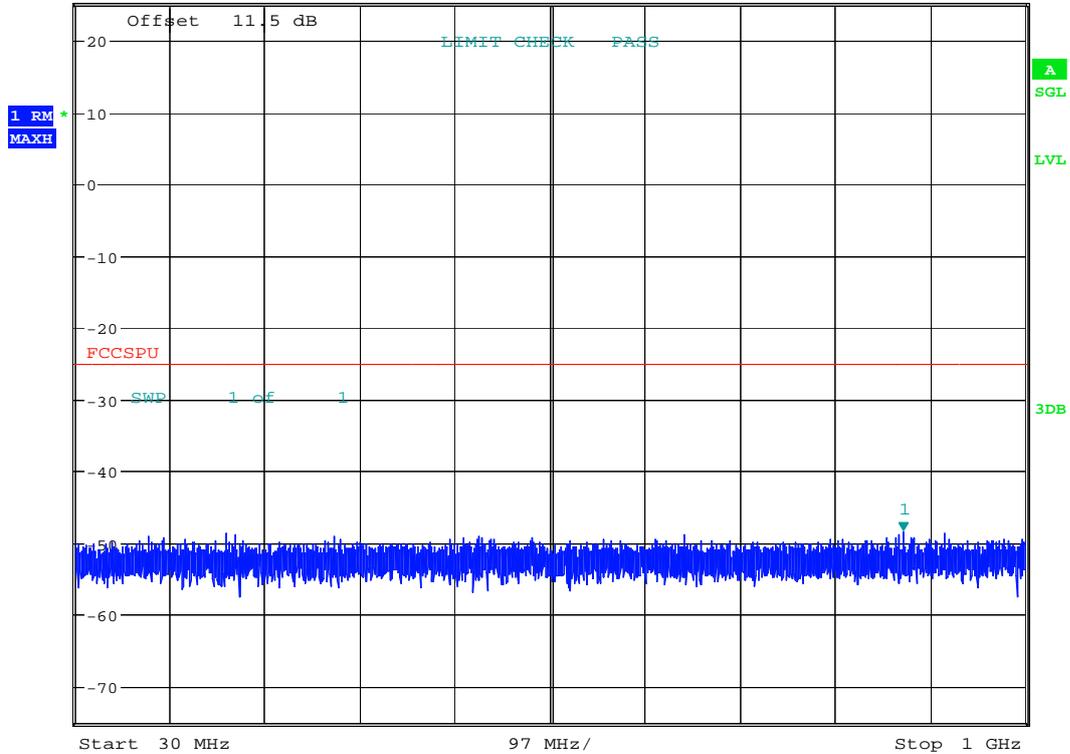


PO

Date: 18.MAR.2011 18:29:42



\*RBW 100 kHz      Marker 1 [T1 ]  
 \*VBW 1 MHz      -48.47 dBm  
 \*SWT 1 s      875.743000000 MHz  
 Ref 25 dBm      \*Att 35 dB

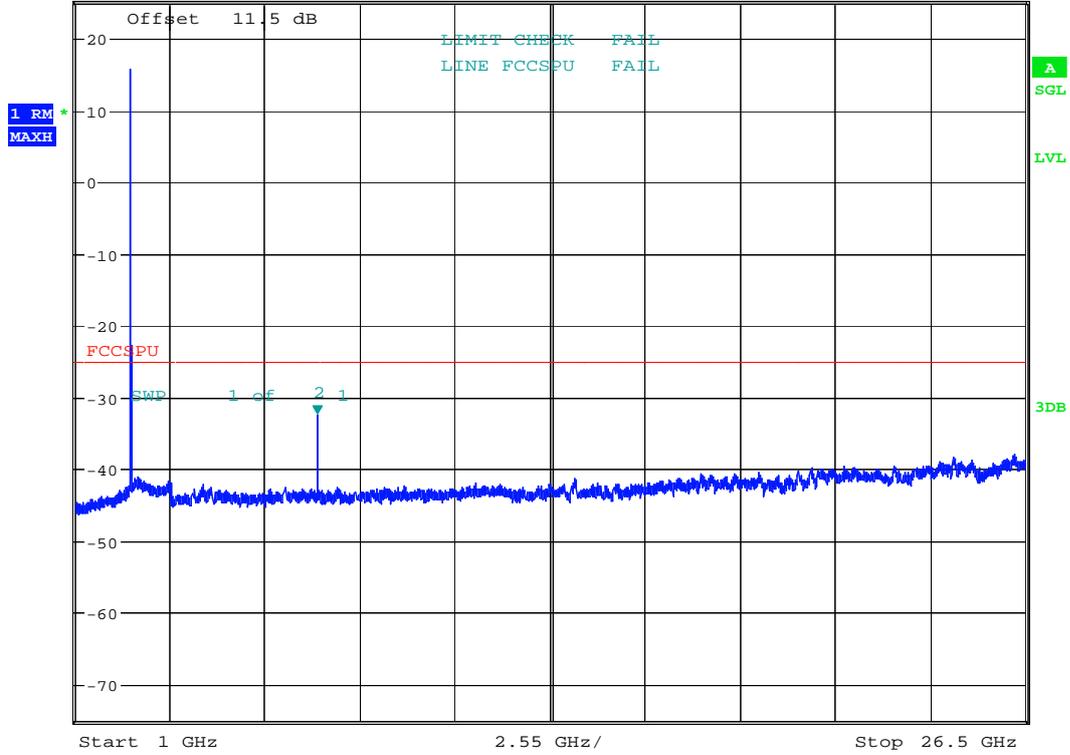


PO

Date: 18.MAR.2011 18:29:47



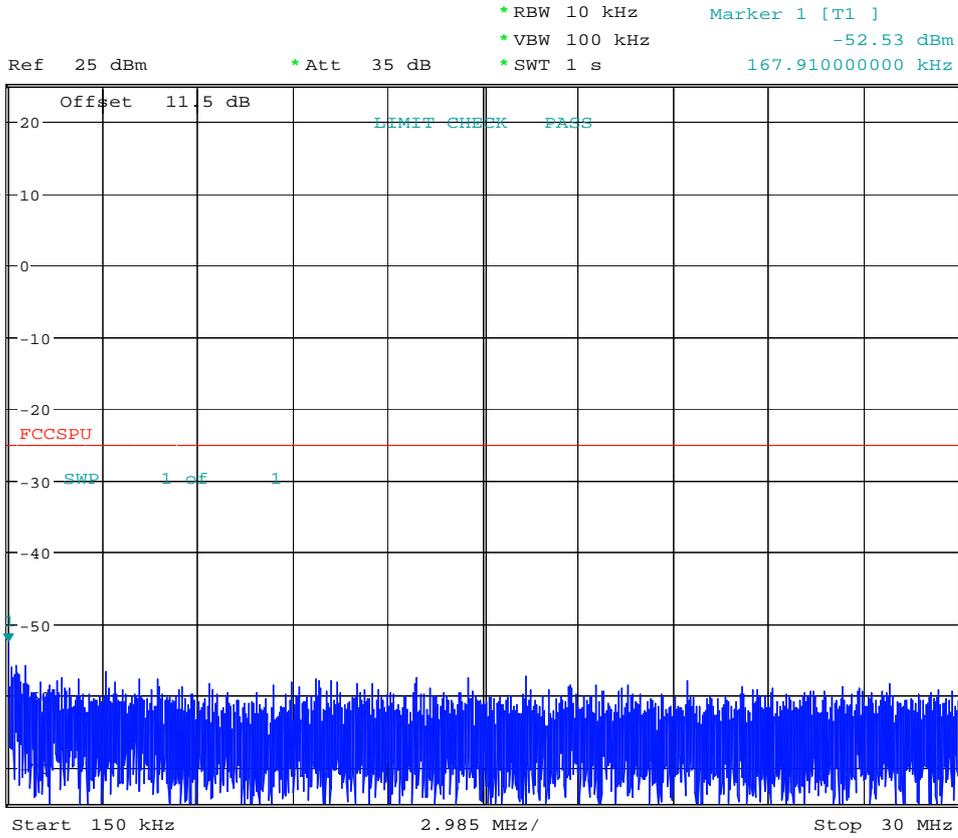
\* RBW 1 MHz      Marker 2 [T1 ]  
 \* VBW 3 MHz      -32.48 dBm  
 \* SWT 1 s      7.50250000 GHz  
 Ref 25 dBm      \* Att 35 dB



PO

Date: 18.MAR.2011 18:29:53



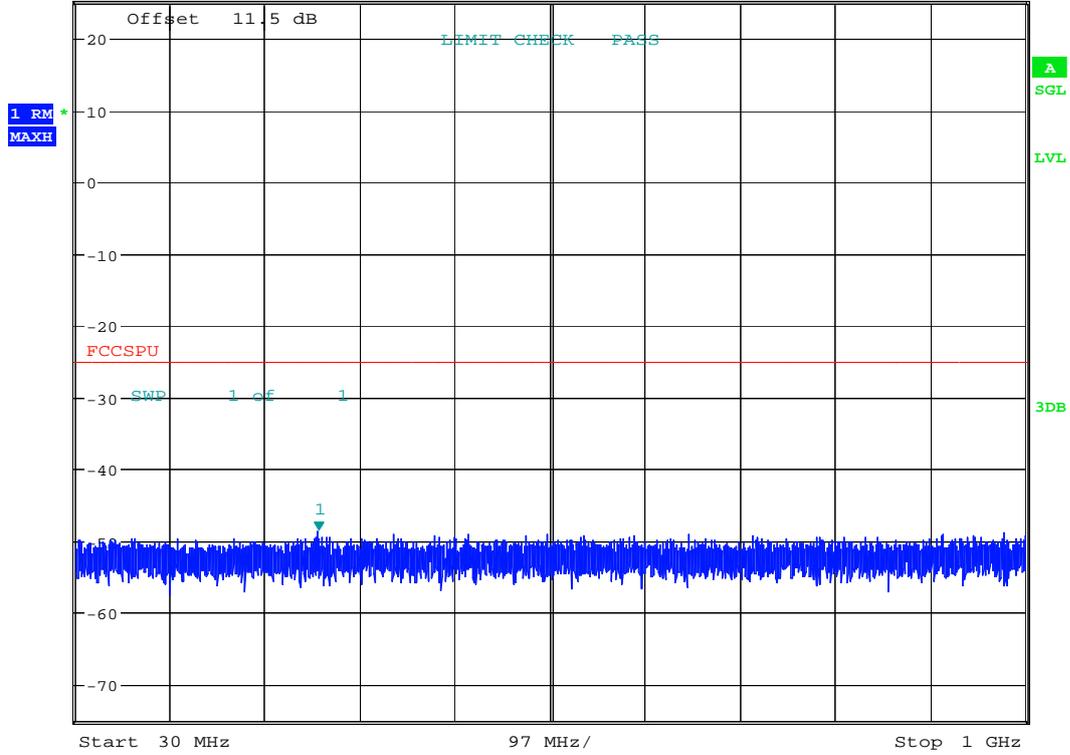


PO

Date: 18.MAR.2011 18:28:50



\*RBW 100 kHz      Marker 1 [T1 ]  
 \*VBW 1 MHz      -48.72 dBm  
 \*SWT 1 s      278.029000000 MHz  
 Ref 25 dBm      \*Att 35 dB

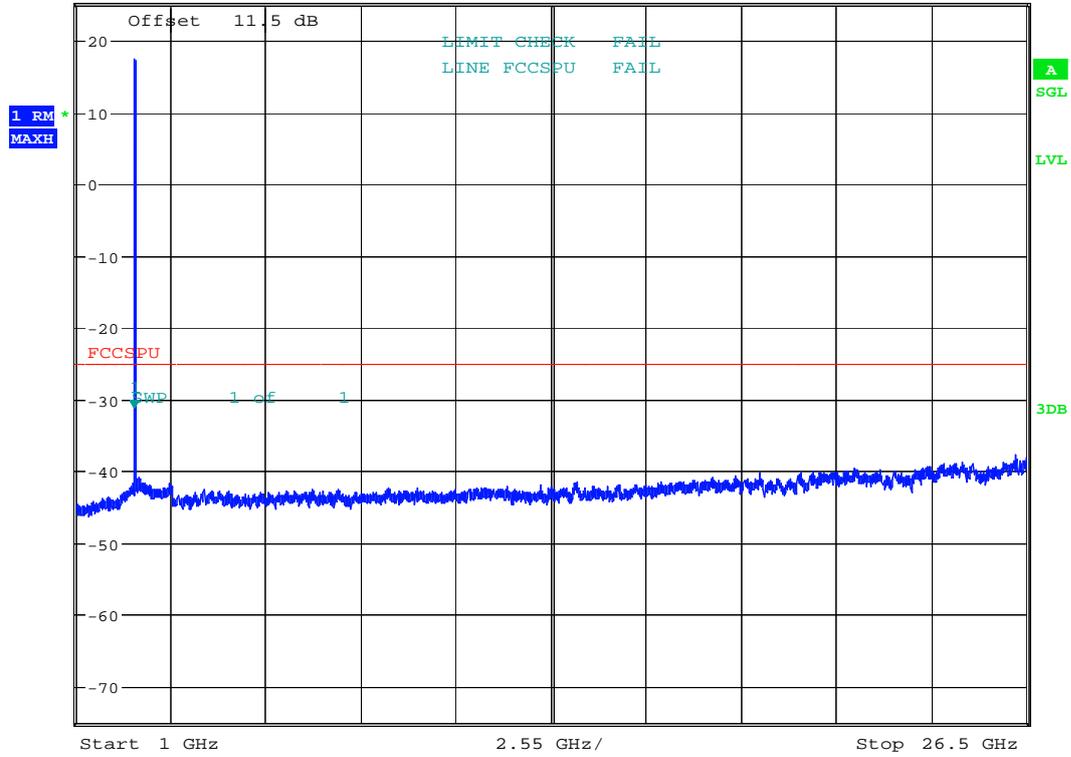


PO

Date: 18.MAR.2011 18:28:54



Ref 25 dBm      \* Att 35 dB      \* RBW 1 MHz      Marker 1 [T1 ]  
 \* VBW 3 MHz      -31.44 dBm  
 \* SWT 1 s      2.56825000 GHz



PO

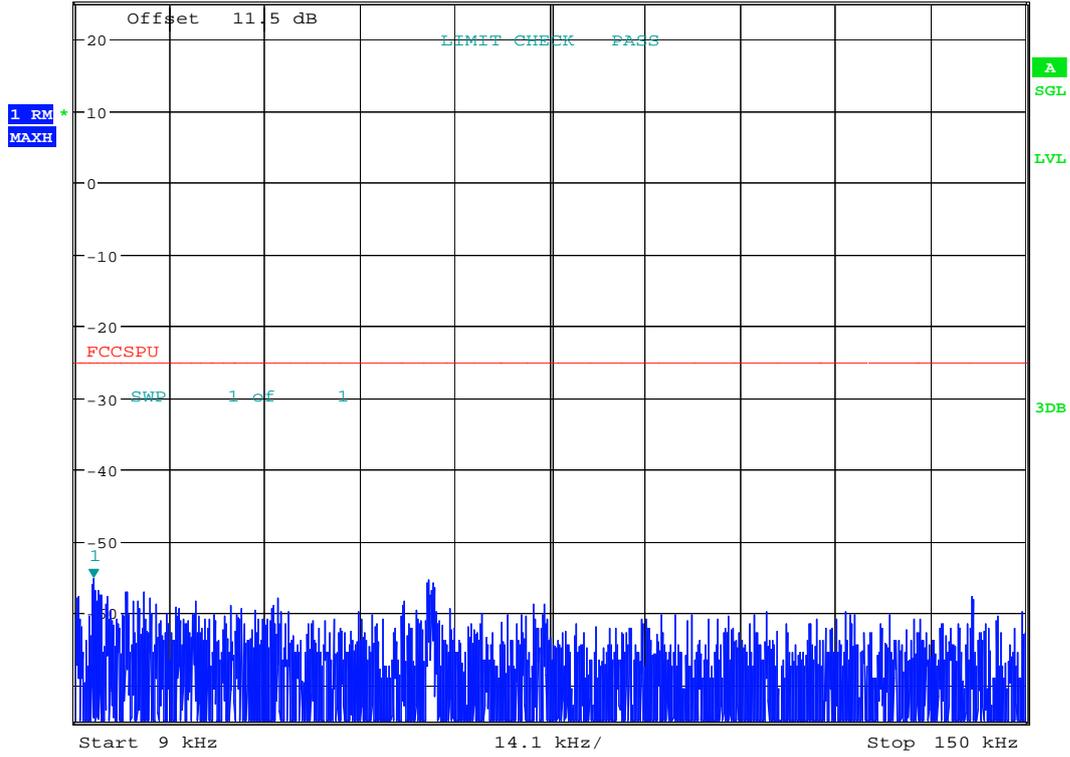
Date: 18.MAR.2011 18:29:00



# T



\*RBW 1 kHz                      Marker 1 [T1 ]  
 \*VBW 10 kHz                     -55.20 dBm  
 \*SWT 1 s                            11.82000000 kHz  
 Ref 25 dBm                        \*Att 35 dB

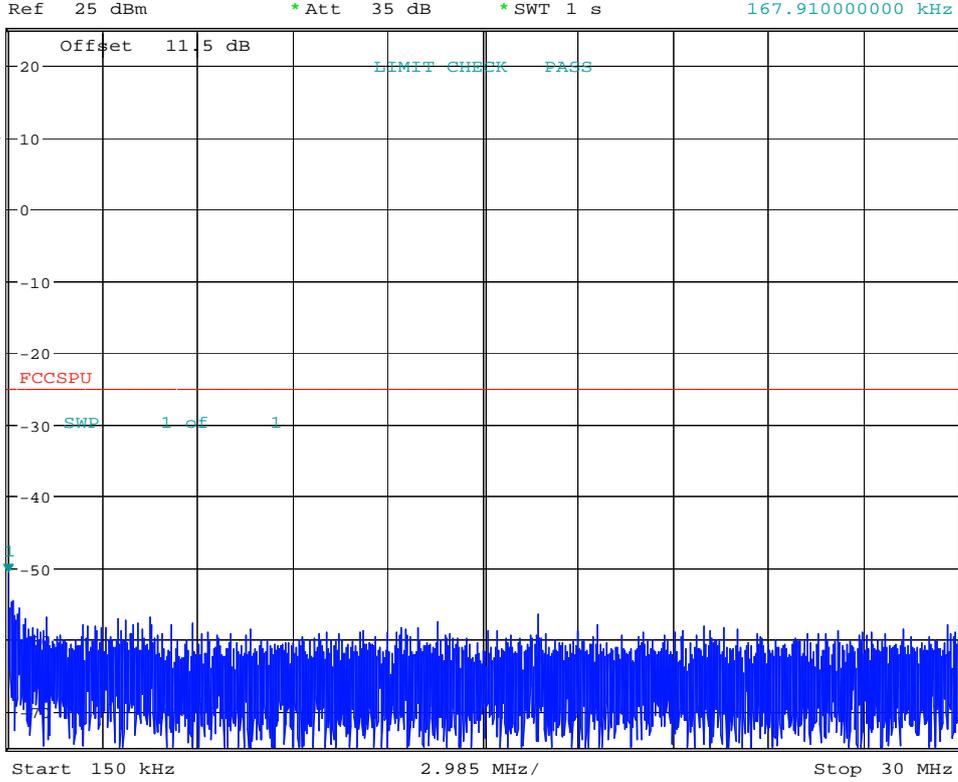


PO

Date: 18.MAR.2011 18:27:52

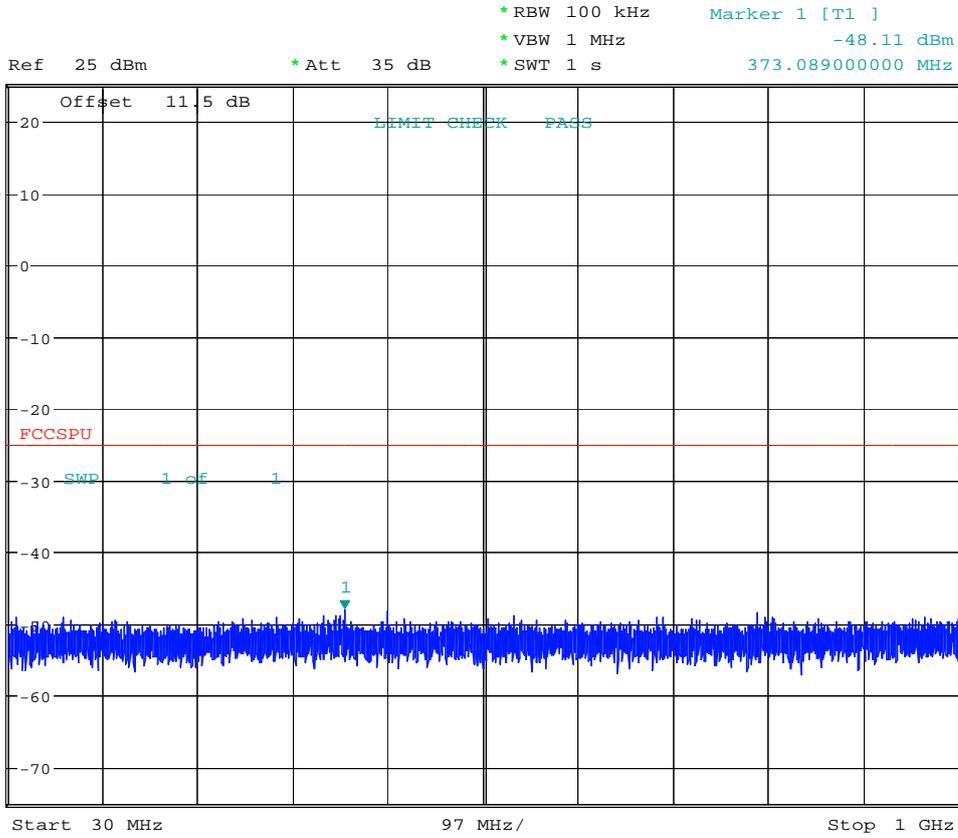


\*RBW 10 kHz      Marker 1 [T1 ]  
 \*VBW 100 kHz      -50.69 dBm  
 \*SWT 1 s      167.91000000 kHz



PO

Date: 18.MAR.2011 18:27:57

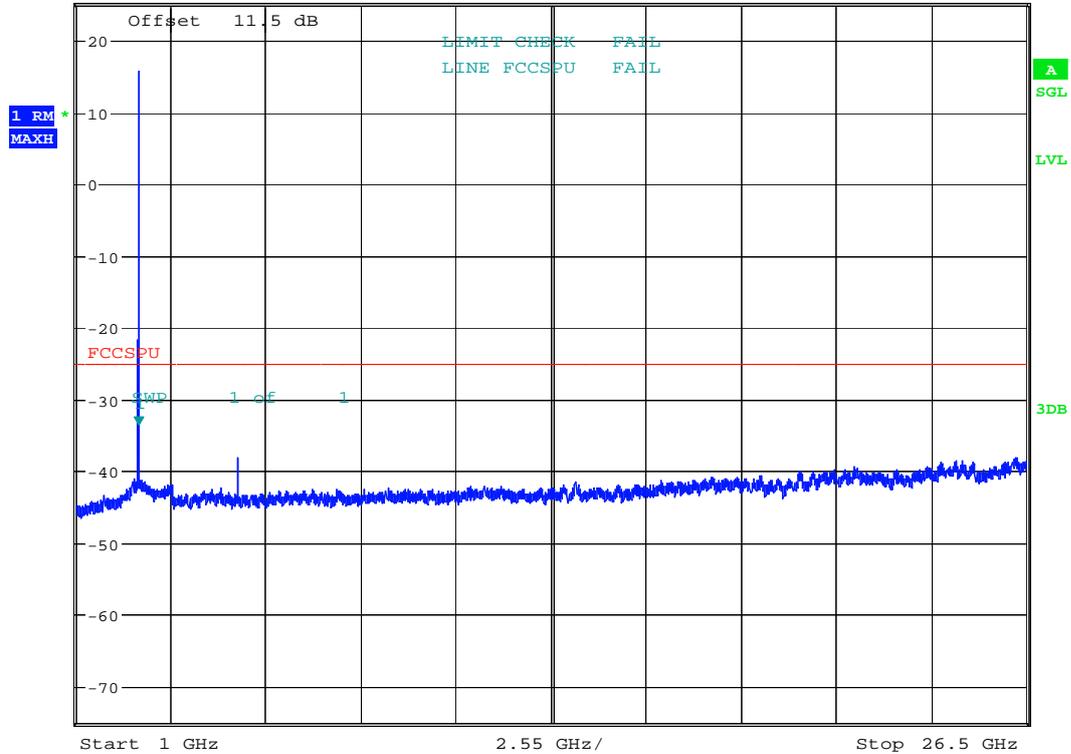


PO

Date: 18.MAR.2011 18:28:02



Ref 25 dBm \* Att 35 dB \* RBW 1 MHz Marker 1 [T1 ]  
 \* VBW 3 MHz -33.76 dBm  
 \* SWT 1 s 2.660050000 GHz



PO

Date: 18.MAR.2011 18:28:07