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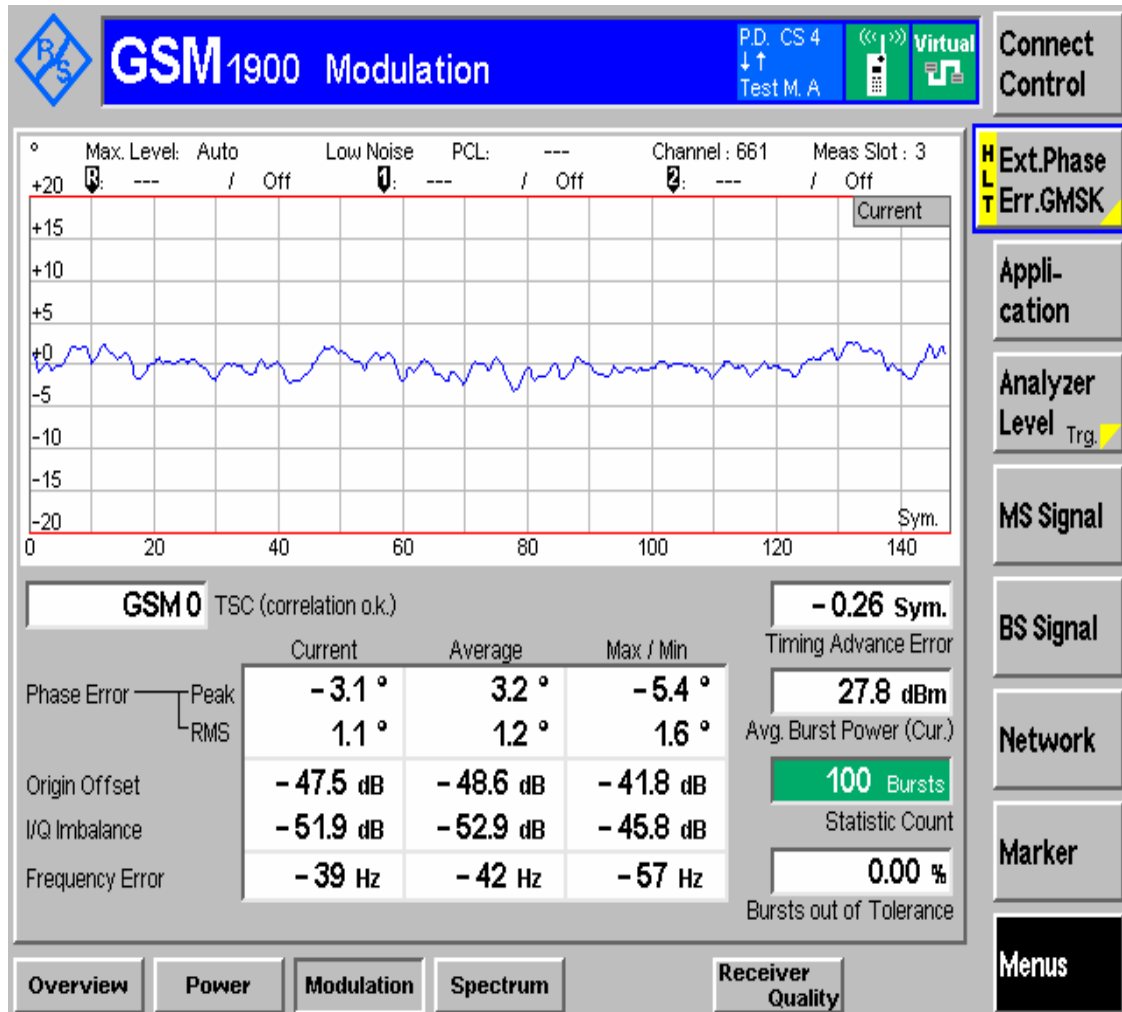
# Appendix A

## Modulation Characteristics

According to FCC Part 2.1047 & Part24 Subpart E

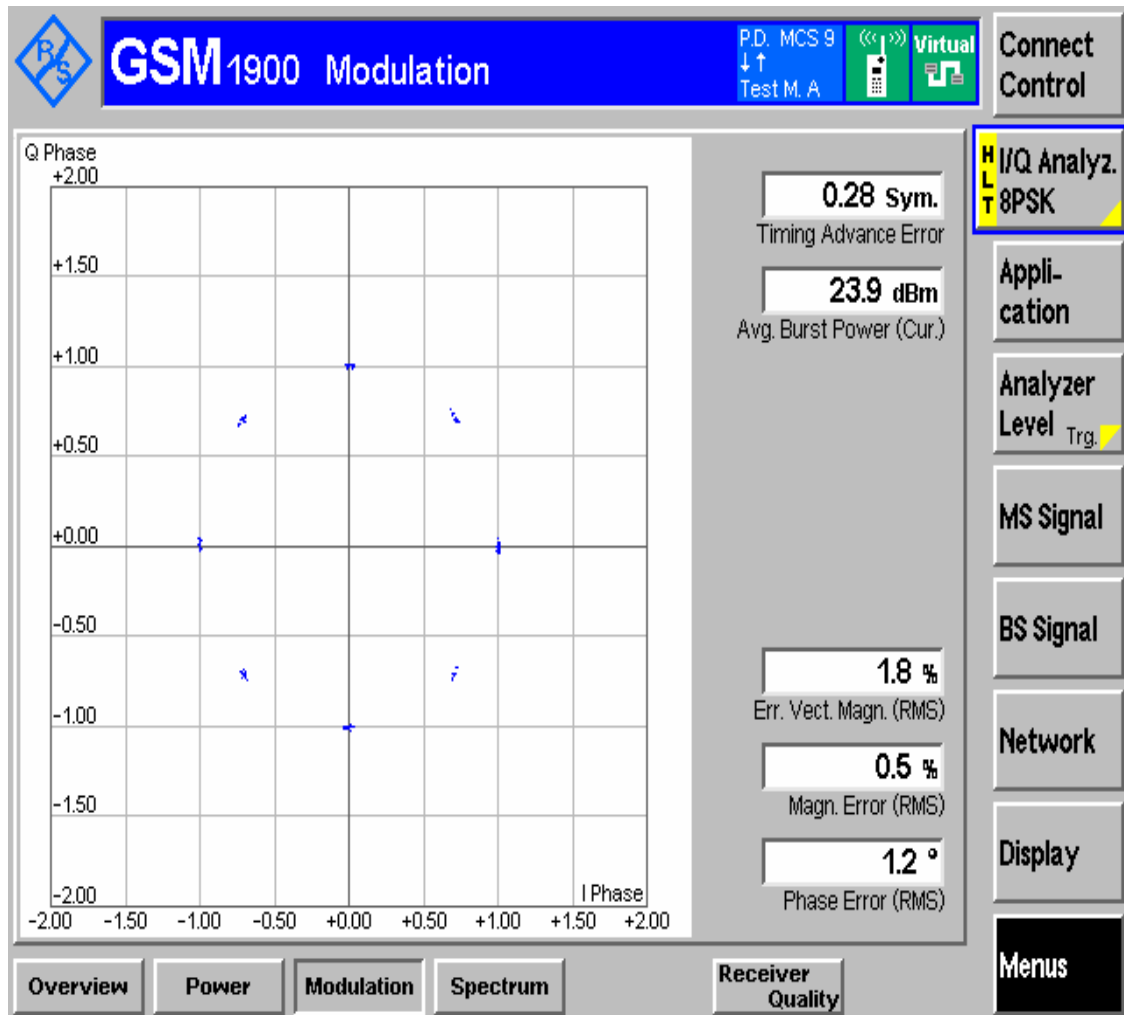


## TM1:GPRS/GSM Channel 661



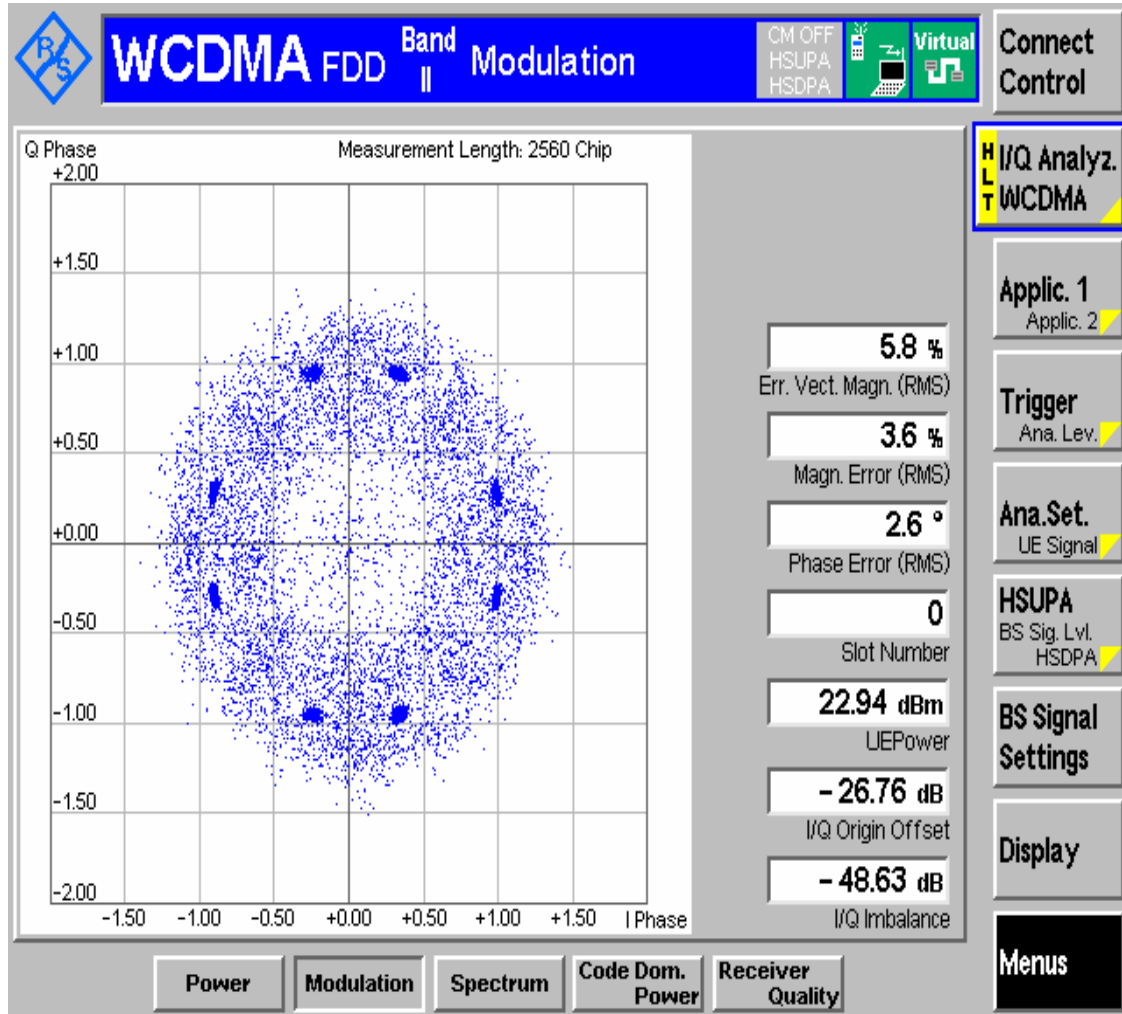


# TM2:EDGE Channel 661





## TM3: WCDMA Channel 9400





FCC Test Report of EM820W  
FCC ID: QISEM820W  
IC ID: 6369A-EM820W



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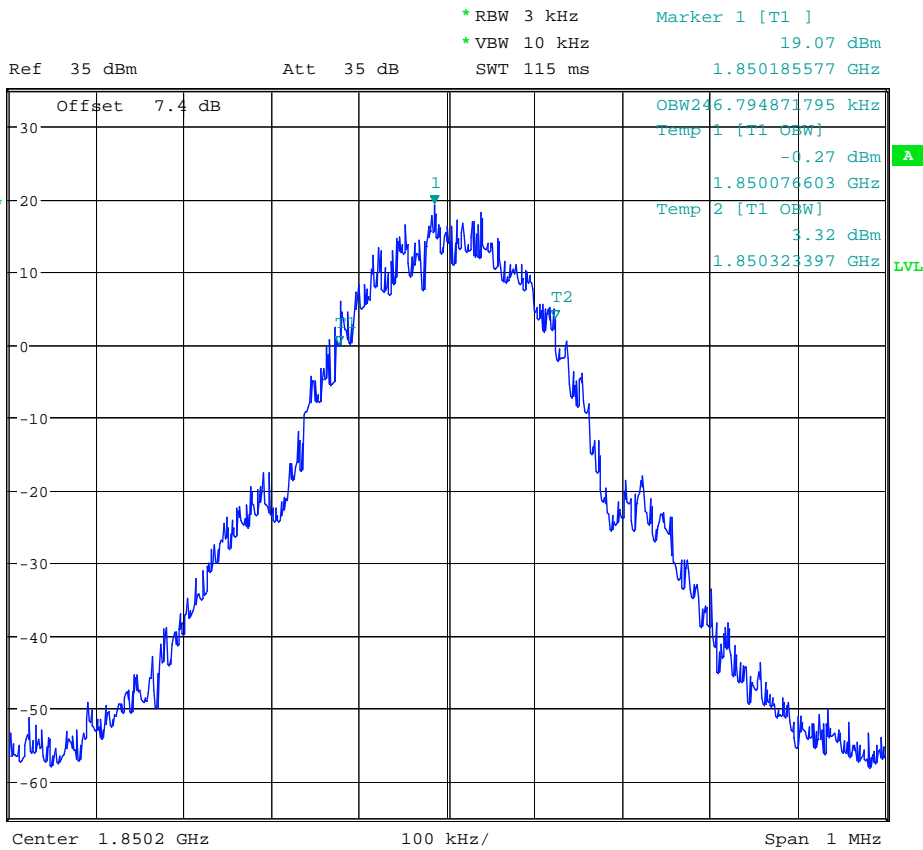
## **Appendix B**

# Occupied Bandwidth

According to FCC Part 2.1049 & Part24 Subpart E  
& RSS-133



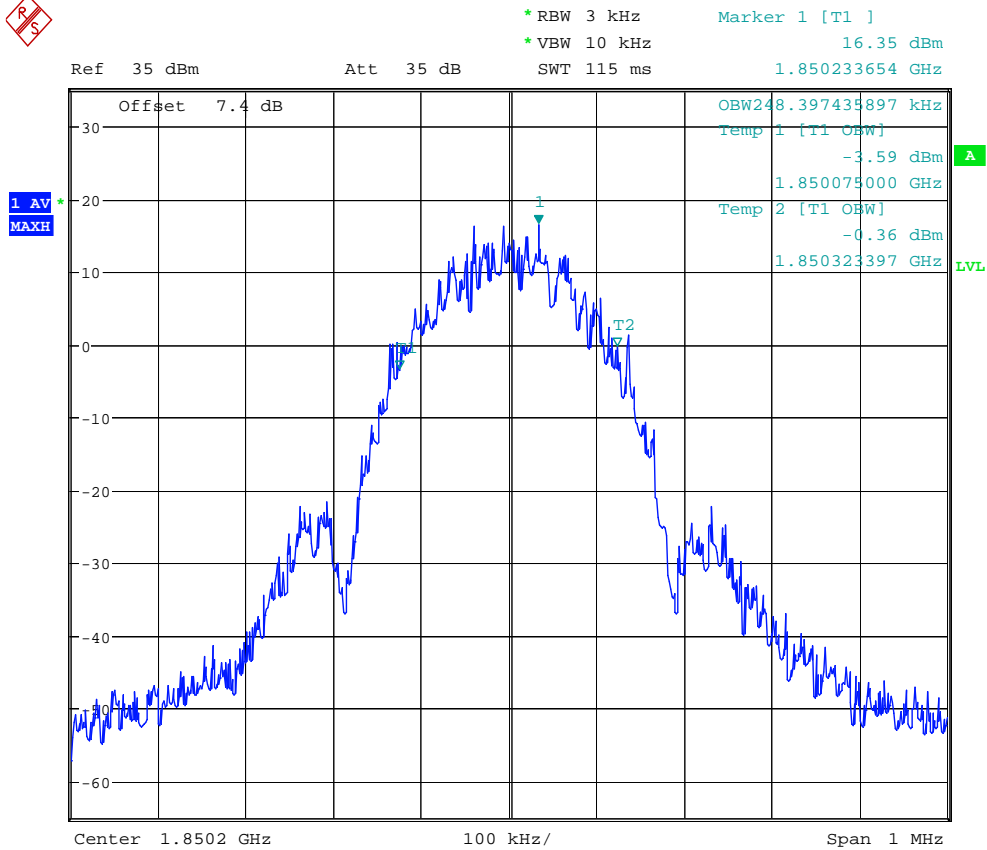
# TM1:GPRS/GSM Channel 512



Date: 26.NOV.2010 08:08:22



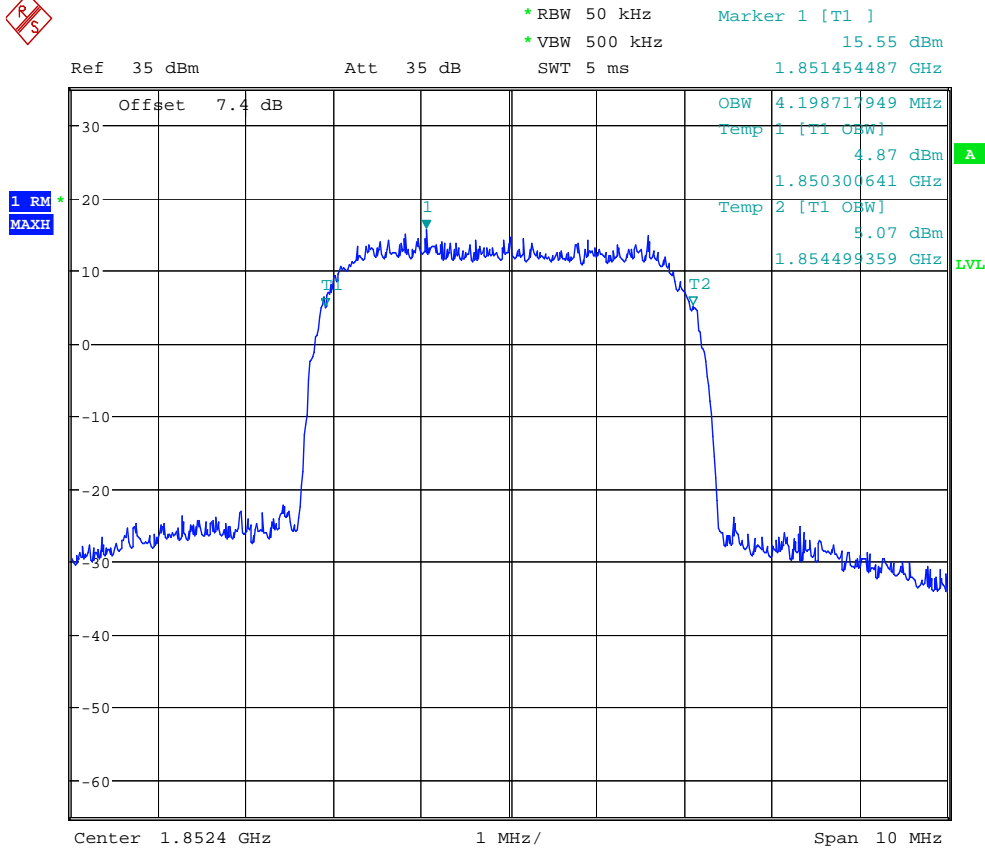
# TM2:EDGE Channel 512



Date: 26.NOV.2010 08:26:43



# TM3: WCDMA Channel 9262

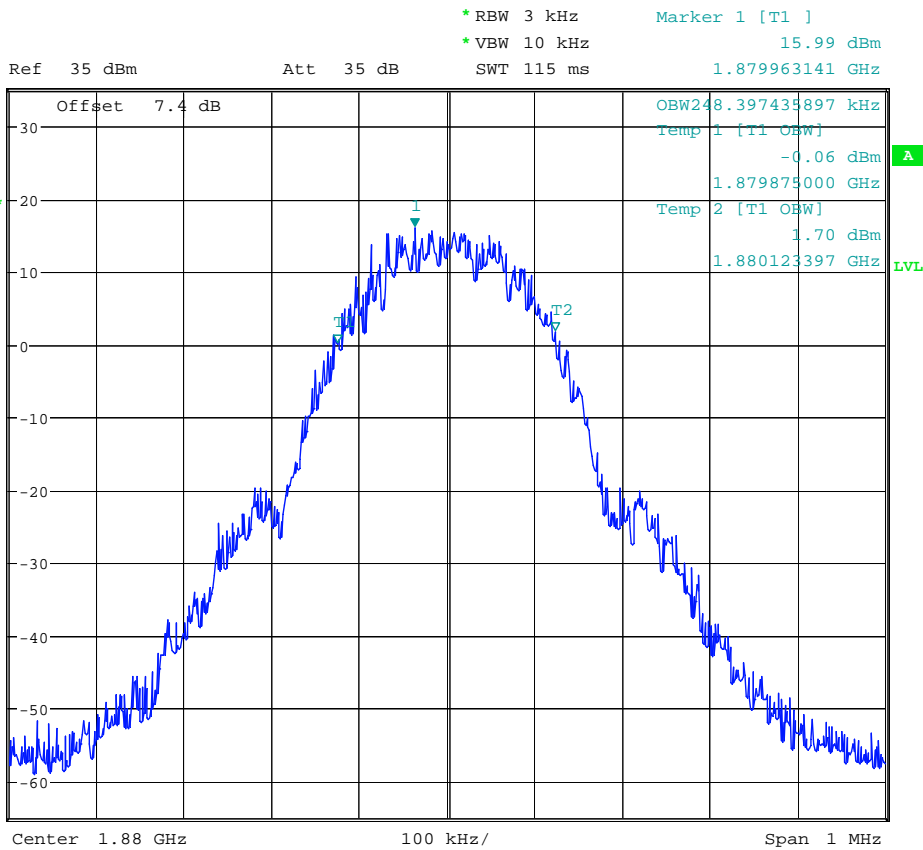


Date: 26.NOV.2010 08:37:04





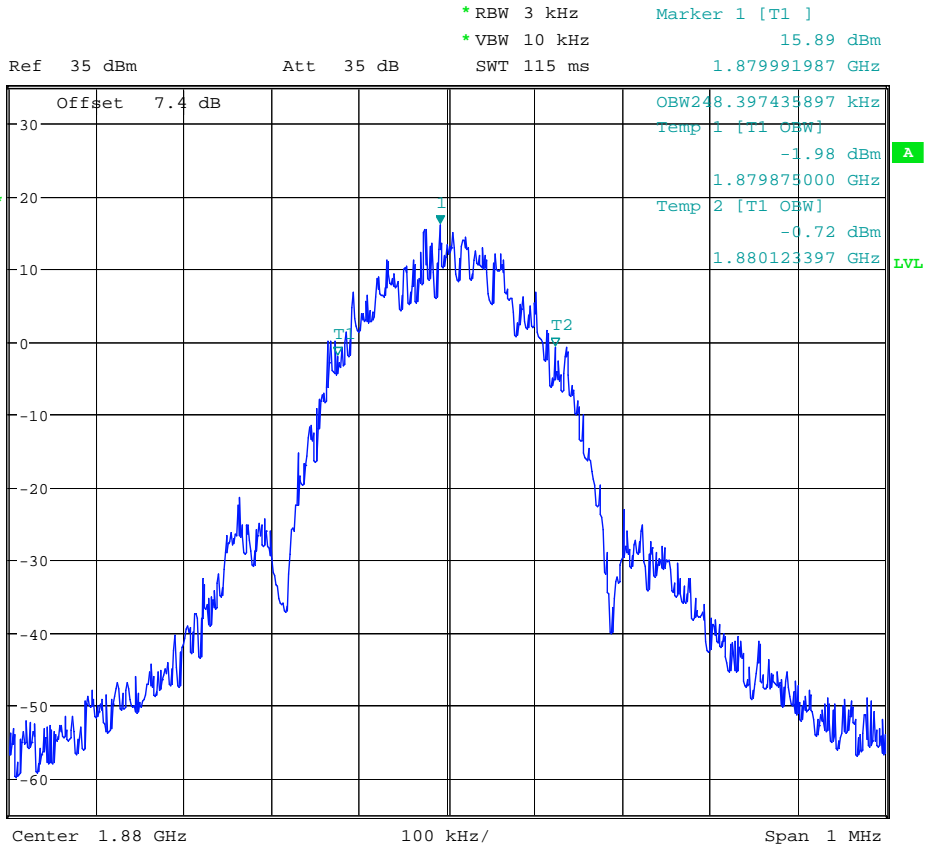
# TM1:GPRS/GSM Channel 661



Date: 26.NOV.2010 08:08:36



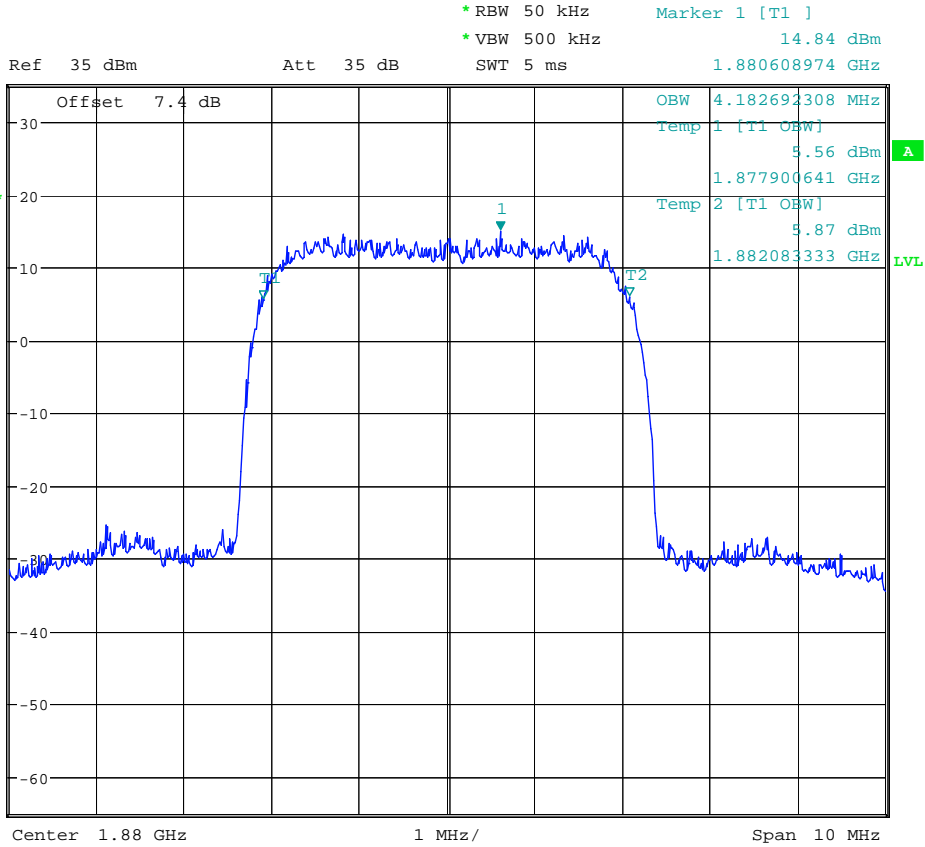
# TM2:EDGE Channel 661



Date: 26.NOV.2010 08:26:57



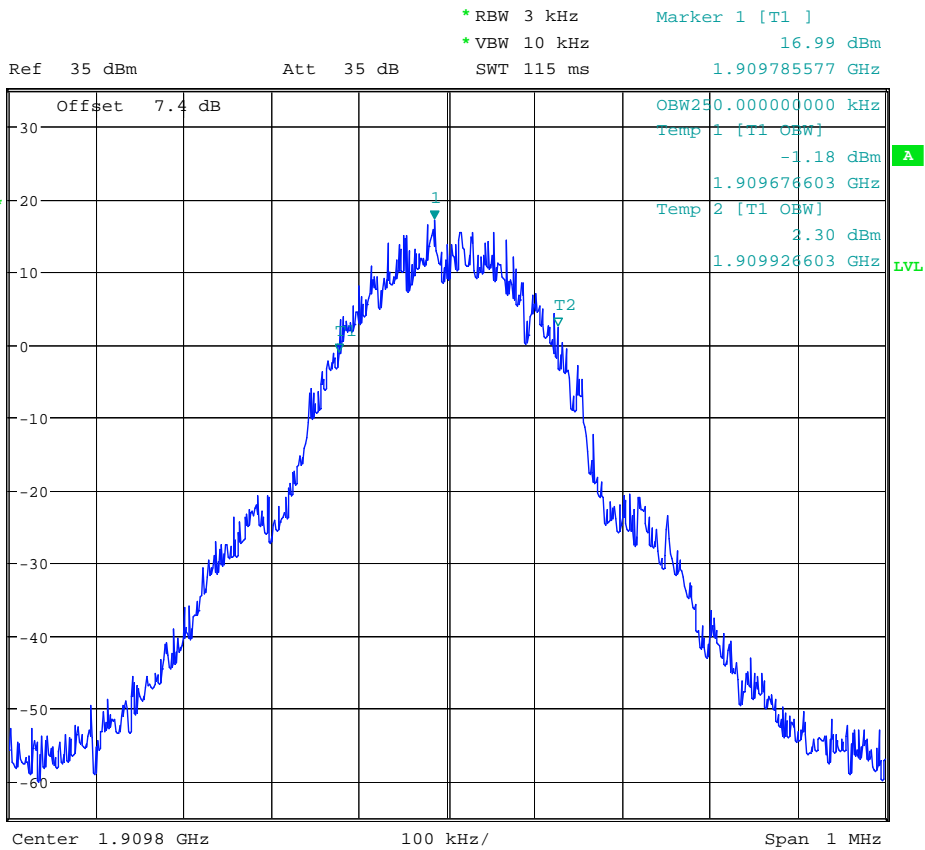
# TM3: WCDMA Channel 9400



Date: 26.NOV.2010 08:37:18



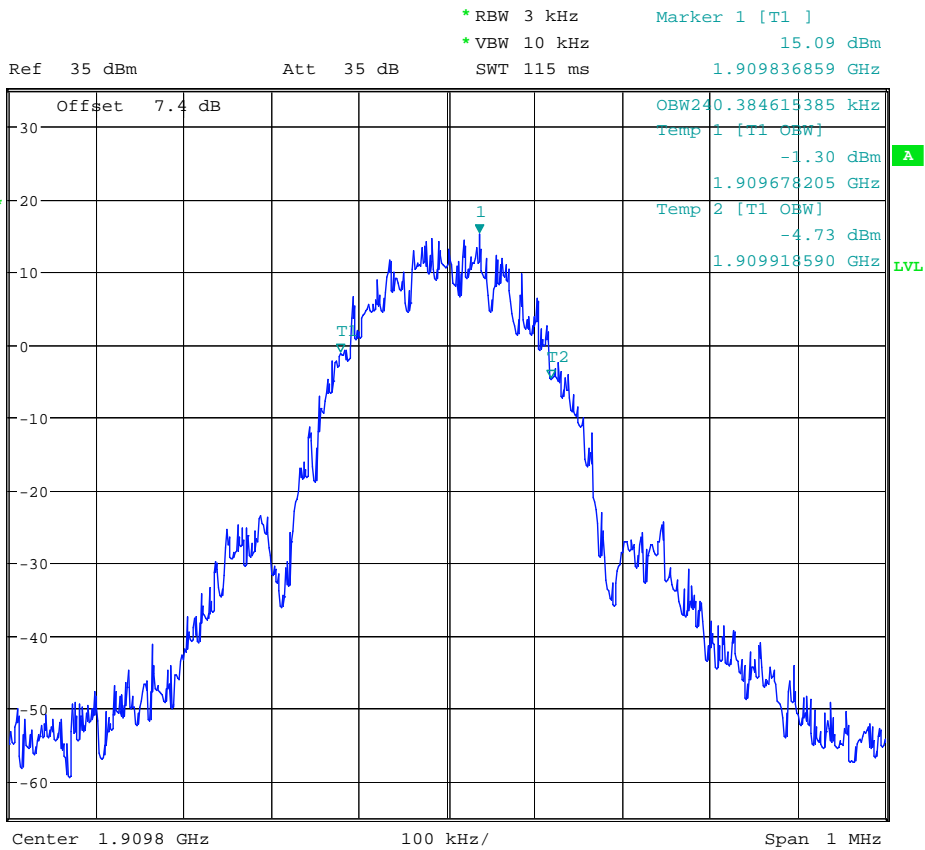
# TM1:GPRS/GSM Channel 810



Date: 26.NOV.2010 08:08:50



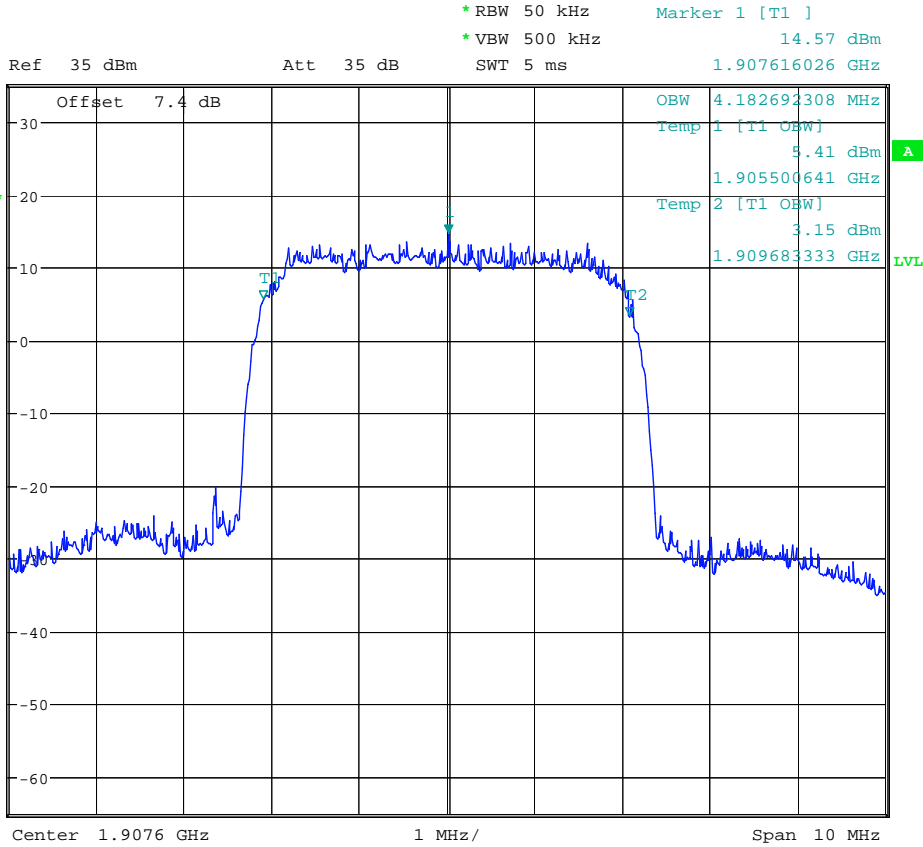
# TM2:EDGE Channel 810



Date: 26.NOV.2010 08:27:11



# TM3: WCDMA Channel 9538



Date: 26.NOV.2010 08:37:32



FCC Test Report of EM820W  
FCC ID: QISEM820W  
IC ID: IC ID: 6369A-EM820W



## Appendix C

### Band Edges Compliance

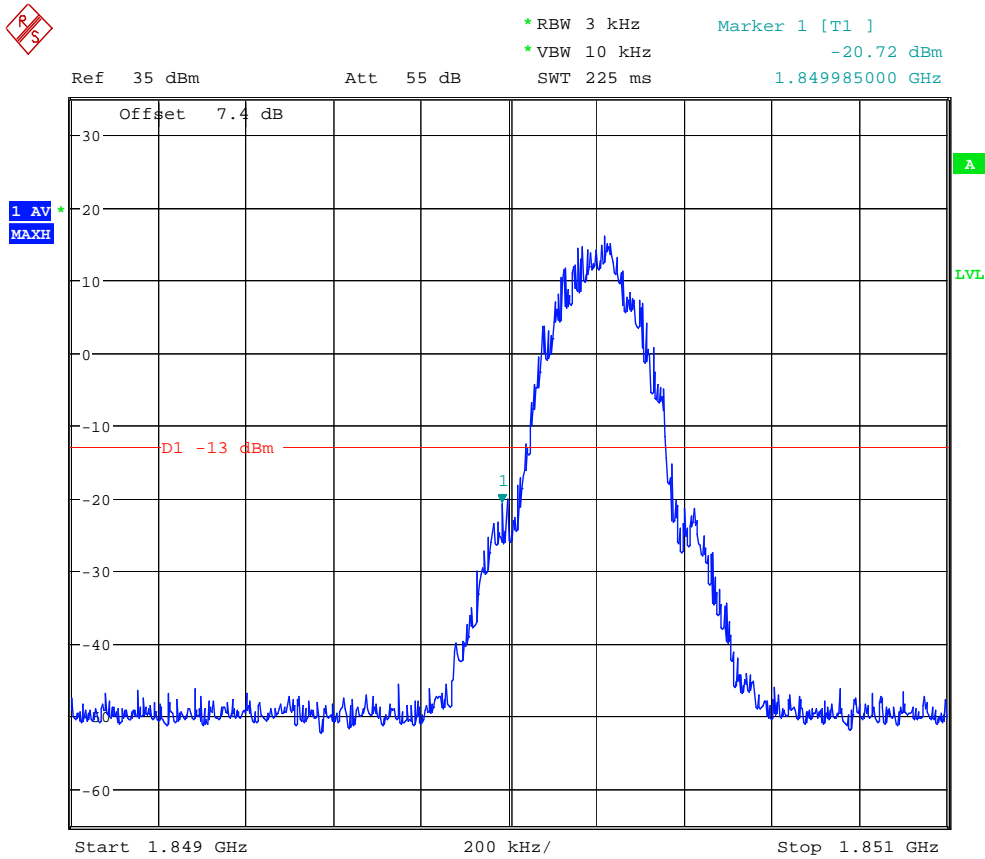
According to FCC Part 2.1051 & Part24 Subpart E  
& RSS-133



# TM1:GPRS/GSM

## Left Edge

### Channel 512



Date: 26.NOV.2010 08:11:19

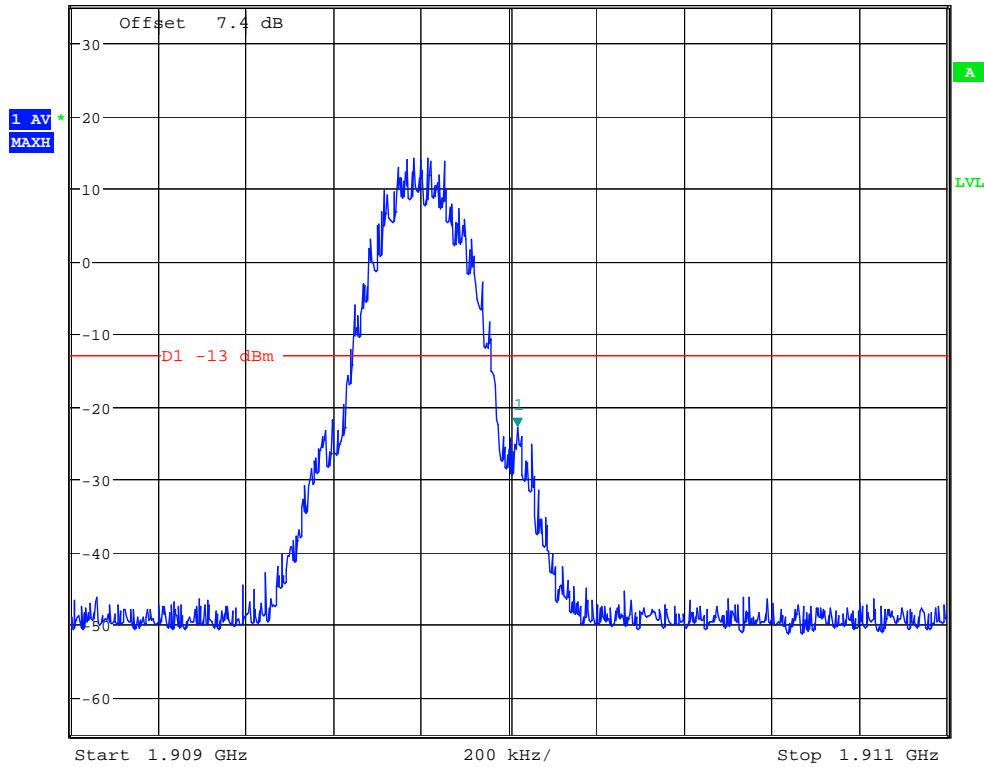




## Right Edge Channel 810



Ref 35 dBm      Att 55 dB      \*RBW 3 kHz      Marker 1 [T1 ]  
\*VBW 10 kHz      -22.88 dBm  
SWT 225 ms      1.910020000 GHz



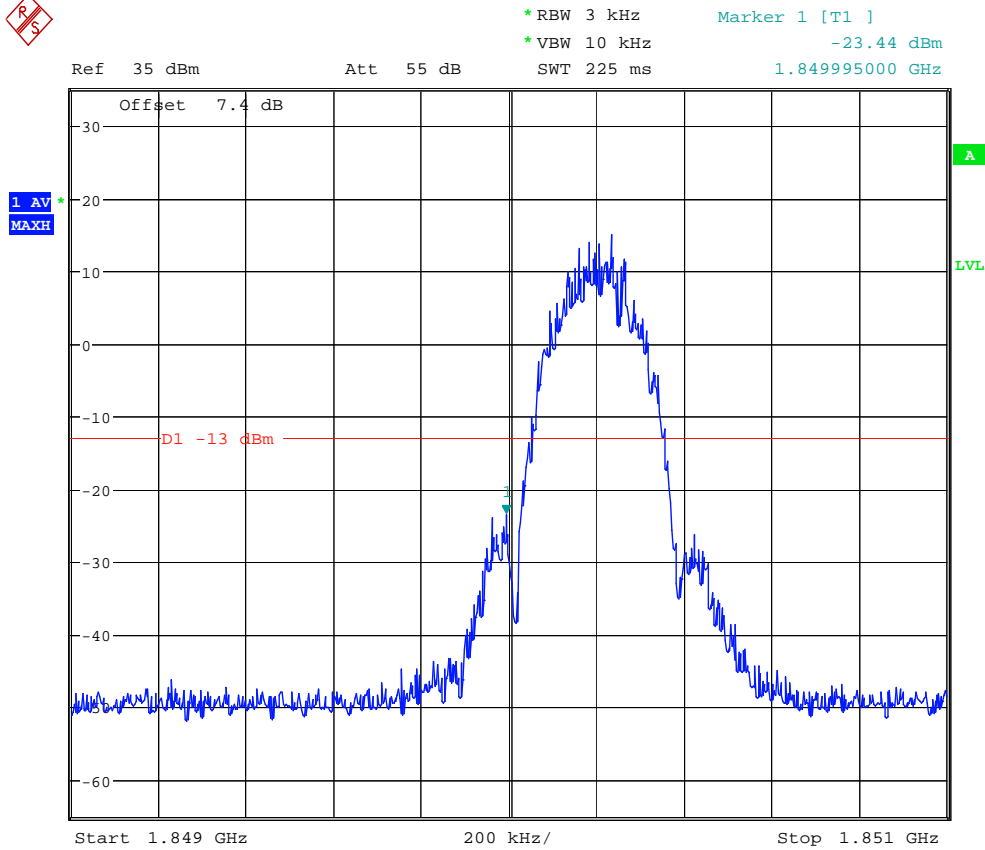
Date: 26.NOV.2010 08:11:33



# TM2:EDGE

## Left Edge

### Channel 512



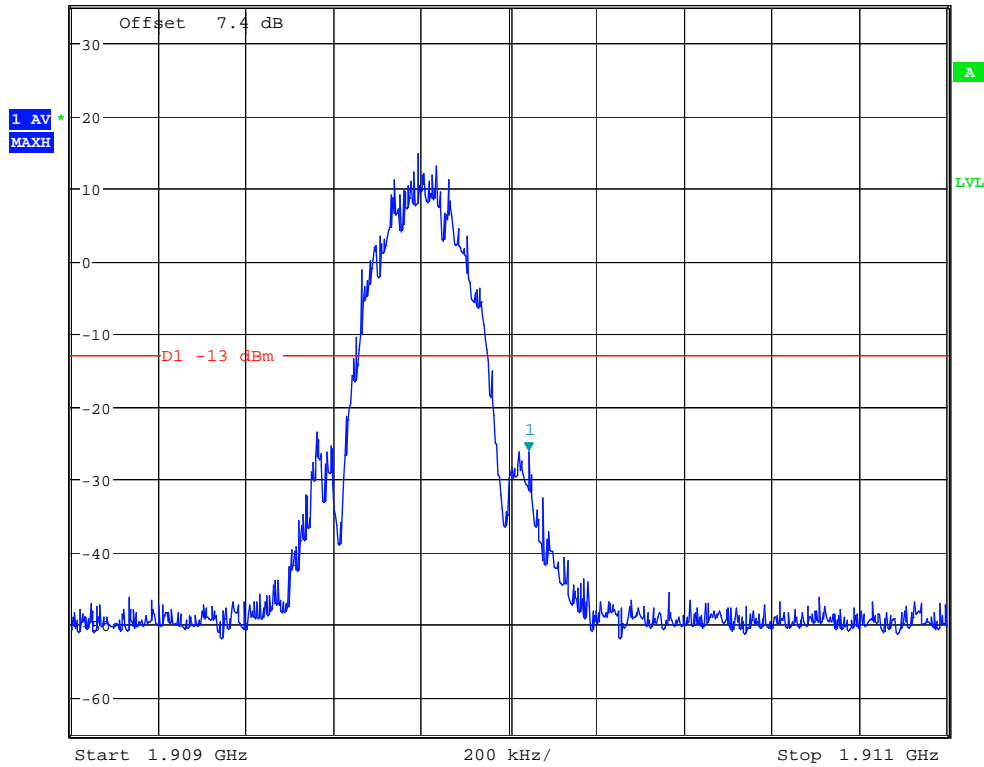
Date: 26.NOV.2010 08:26:14



## Right Edge Channel 810



Ref 35 dBm      Att 55 dB      \*RBW 3 kHz      Marker 1 [T1 ]  
\*VBW 10 kHz      -26.32 dBm  
SWT 225 ms      1.910045000 GHz



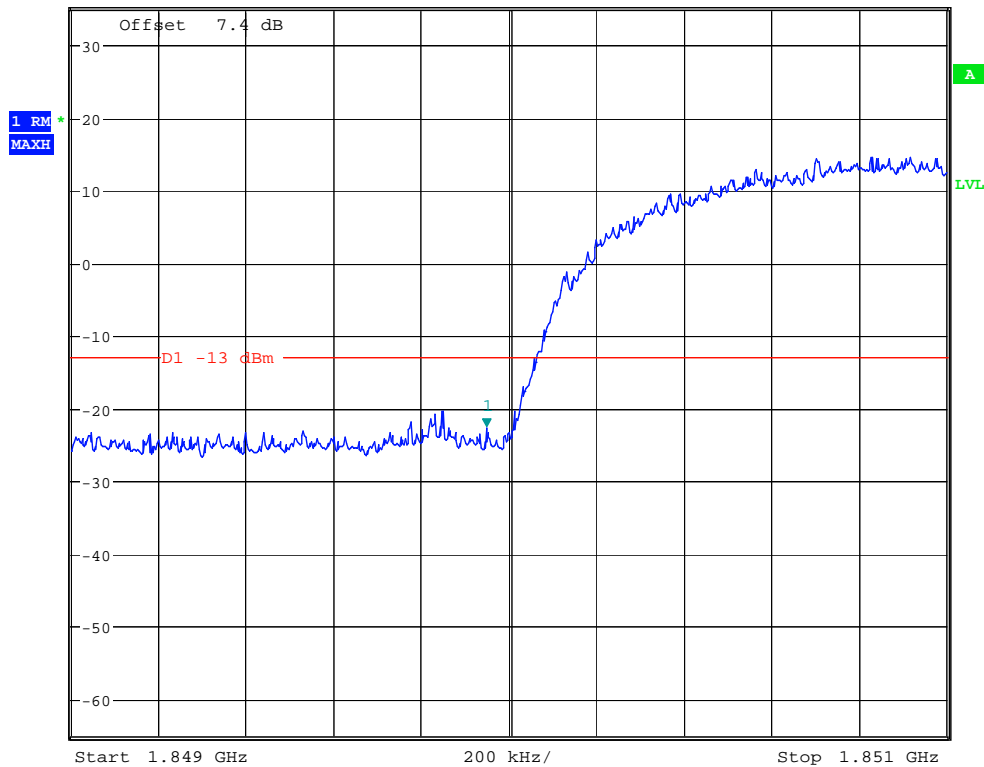
Date: 26.NOV.2010 08:26:28



## TM3: WCDMA Left Edge Channel 9262



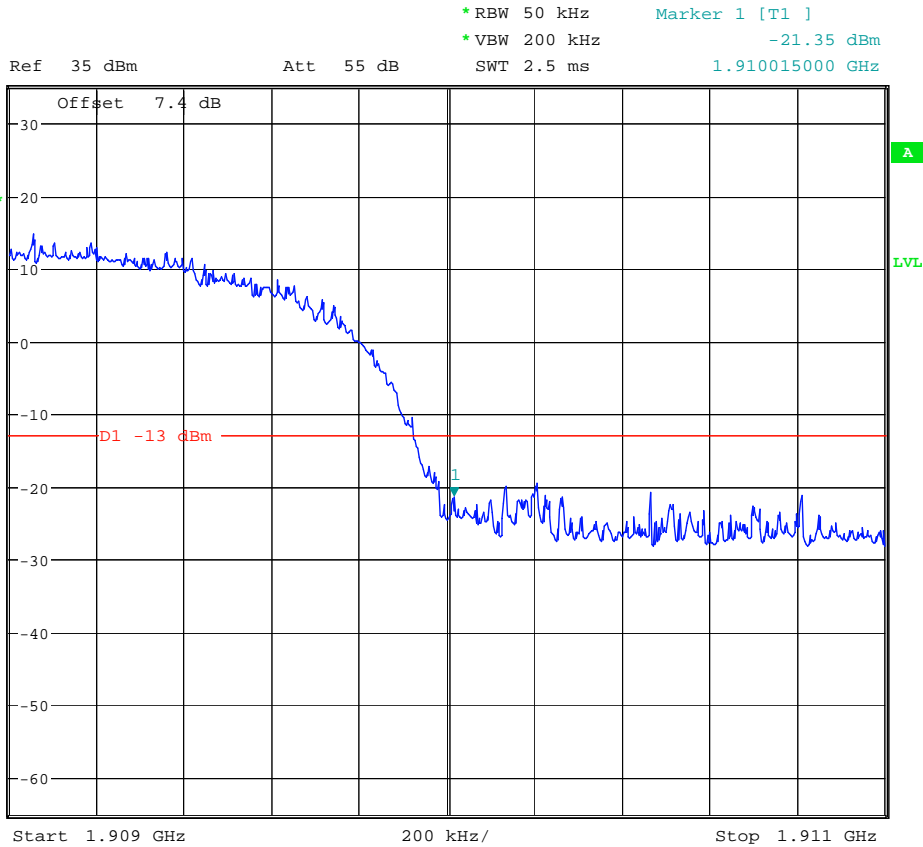
Ref 35 dBm      Att 55 dB      SWT 2.5 ms      \*RBW 50 kHz      Marker 1 [T1]      -22.74 dBm  
 \*VBW 200 kHz      1.849950000 GHz



Date: 26.NOV.2010 08:37:47



## Right Edge Channel 9538



Date: 26.NOV.2010 08:38:02



FCC Test Report of EM820W  
FCC ID: QISEM820W  
IC ID: 6369A-EM820W



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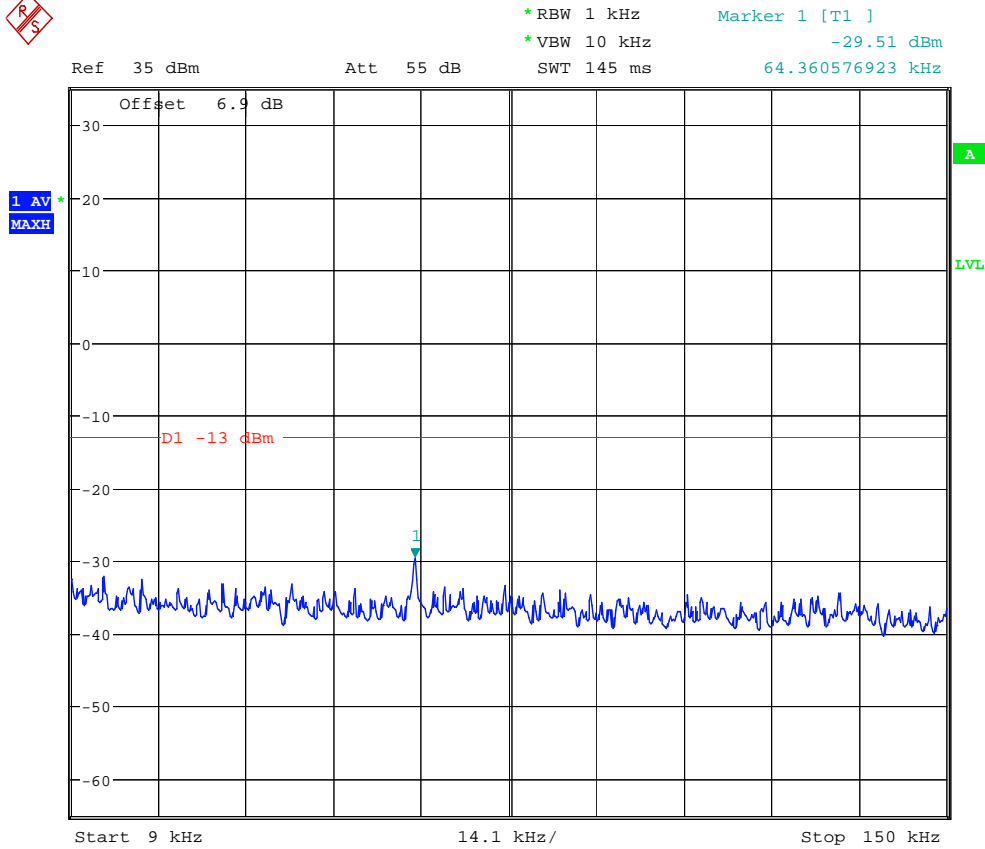
## **Appendix D**

# Spurious Emission at Antenna Terminal

According to FCC Part 2.1051 & Part24 Subpart E  
& RSS-133



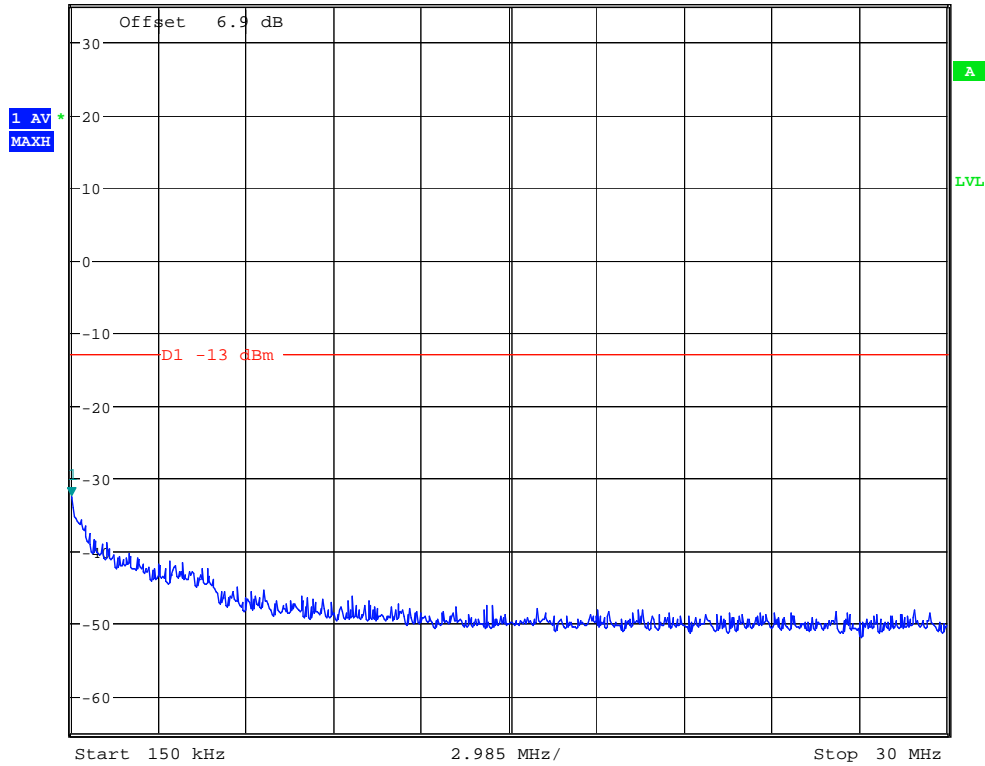
# TM1:GPRS/GSM Channel 512



Date: 26.NOV.2010 08:09:06



Ref 35 dBm      Att 55 dB      SWT 300 ms      150.00000000 kHz  
\*RBW 10 kHz      Marker 1 [T1 ]  
\*VBW 30 kHz      -32.62 dBm

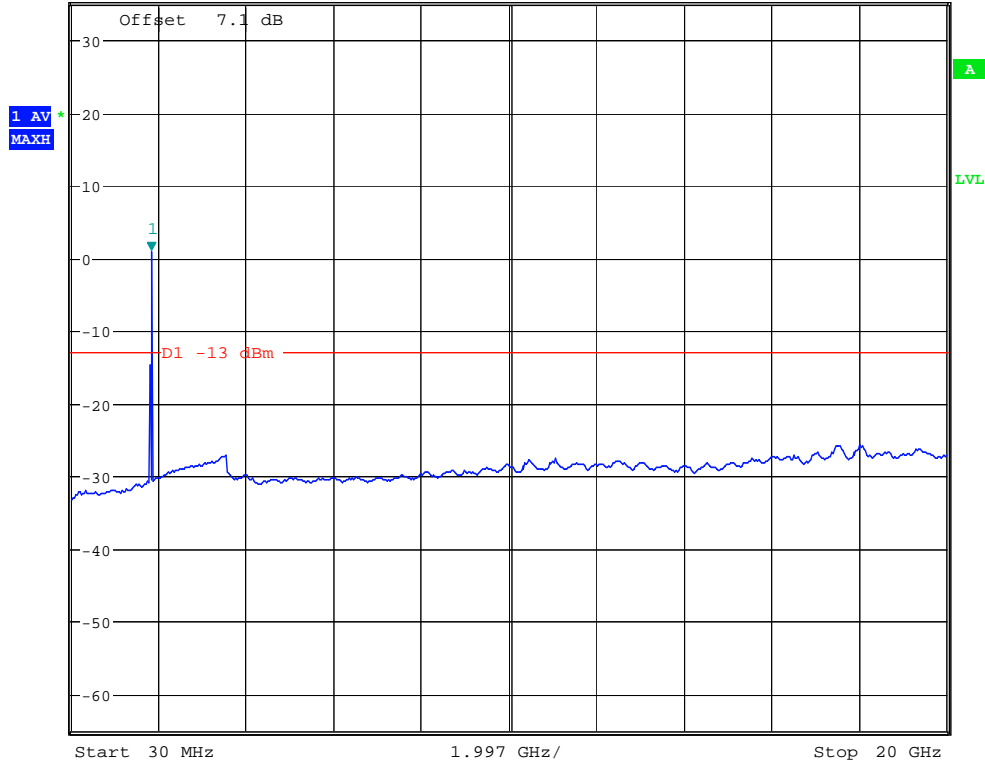


Date: 26.NOV.2010 08:09:50





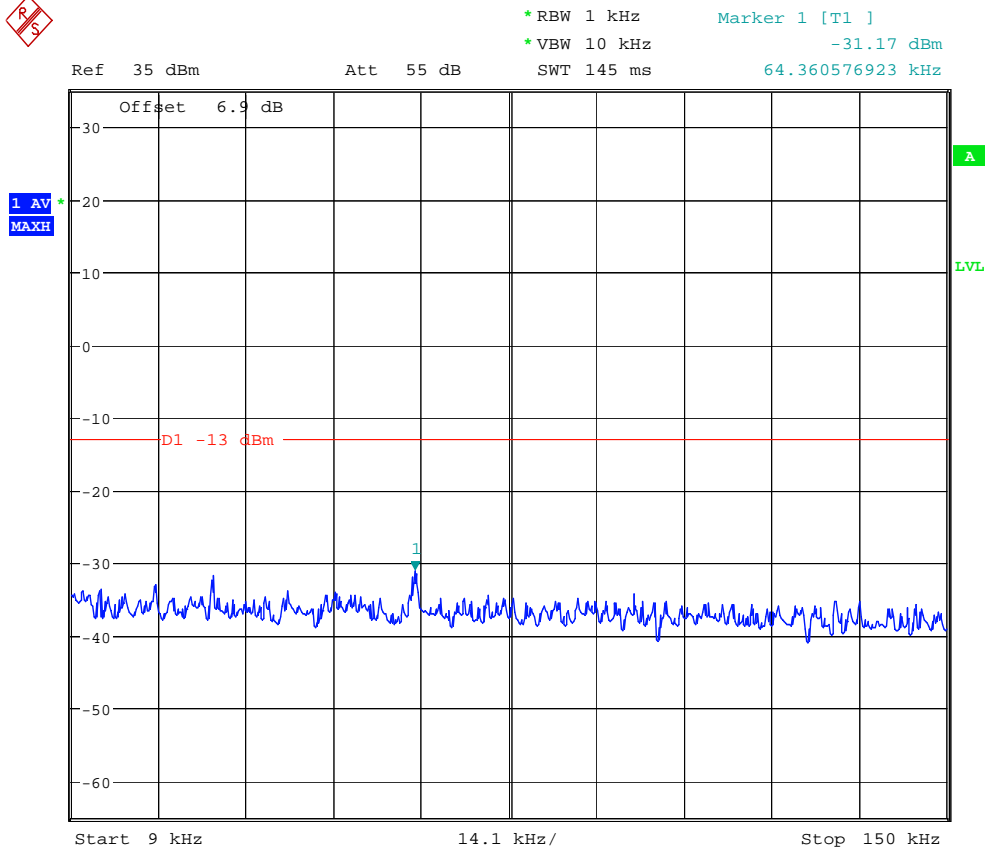
Ref 35 dBm Att 55 dB SWT 115 ms  
\*RBW 1 MHz Marker 1 [T1] 0.93 dBm  
\*VBW 3 MHz 1.854182692 GHz



Date: 26.NOV.2010 08:10:35



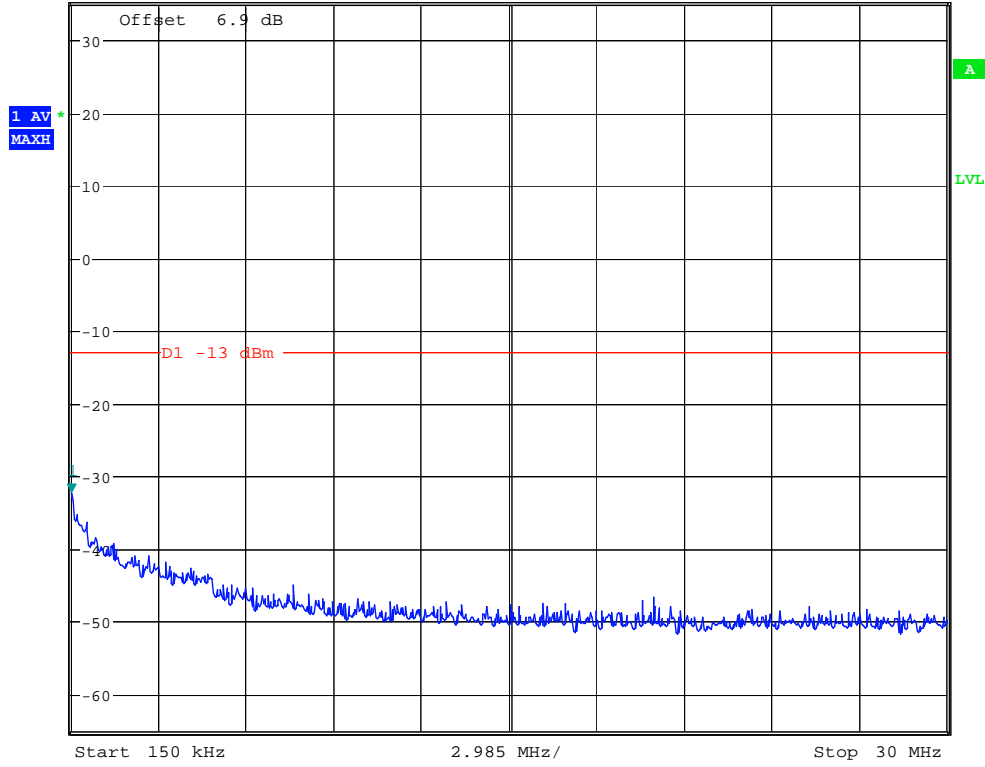
# Channel 661



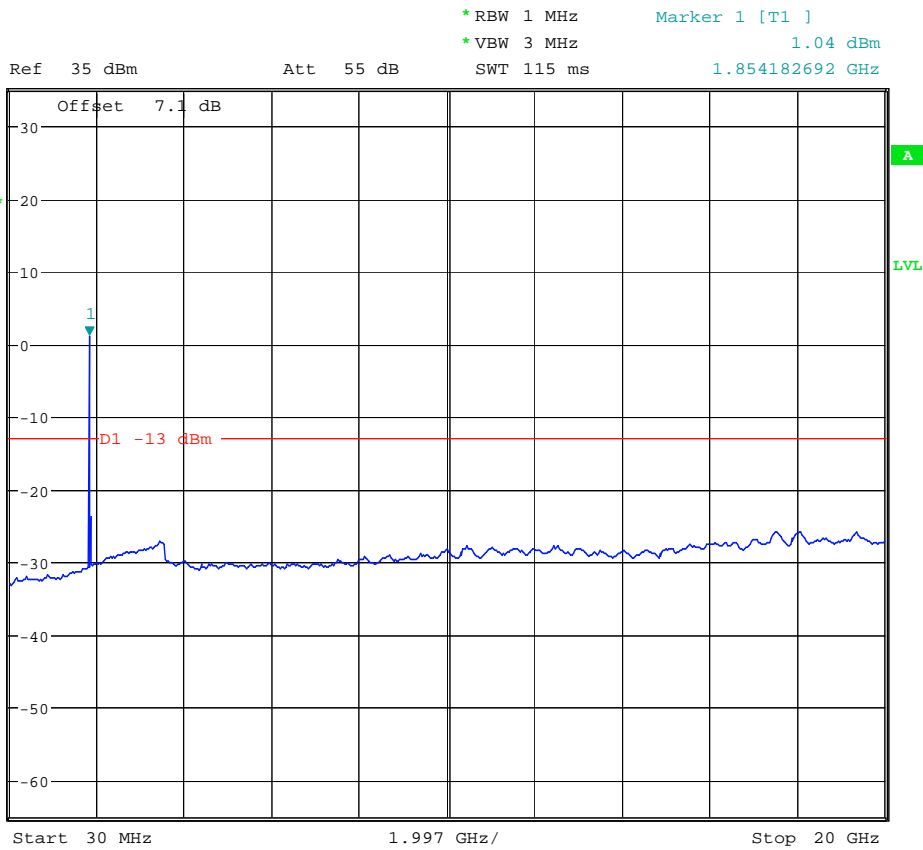
Date: 26.NOV.2010 08:09:20



Ref 35 dBm Att 55 dB SWT 300 ms  
\*RBW 10 kHz Marker 1 [T1 ]  
\*VBW 30 kHz -32.28 dBm  
150.00000000 kHz



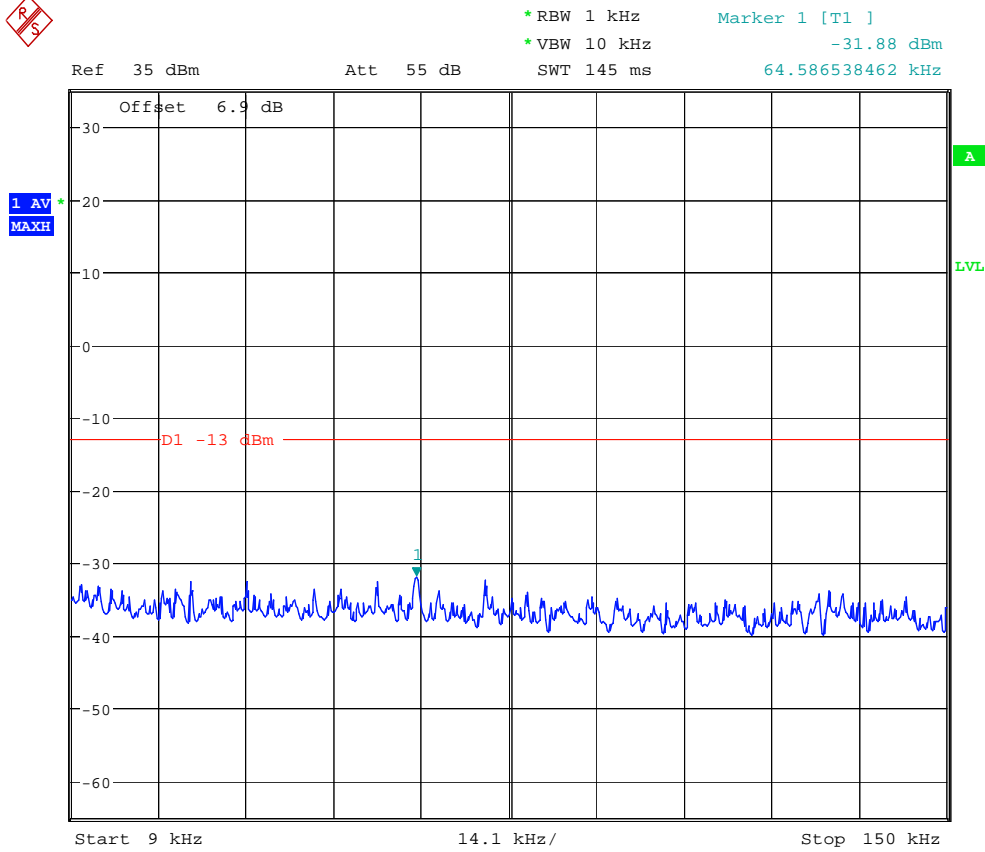
Date: 26.NOV.2010 08:10:05



Date: 26.NOV.2010 08:10:49



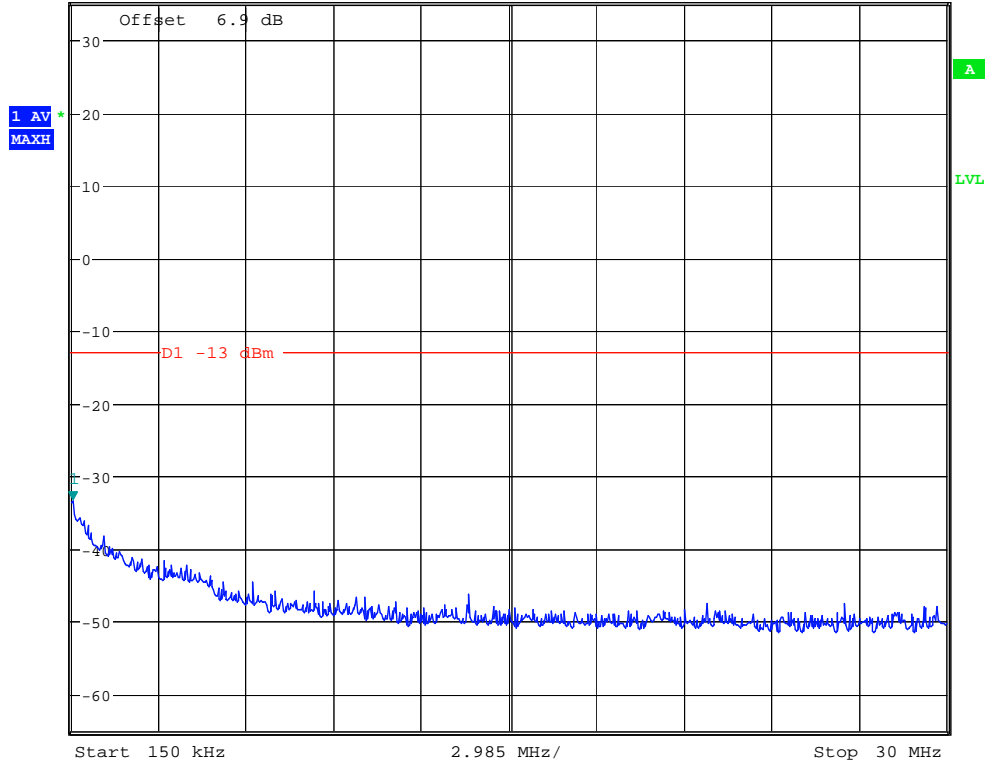
# Channel 810



Date: 26.NOV.2010 08:09:35



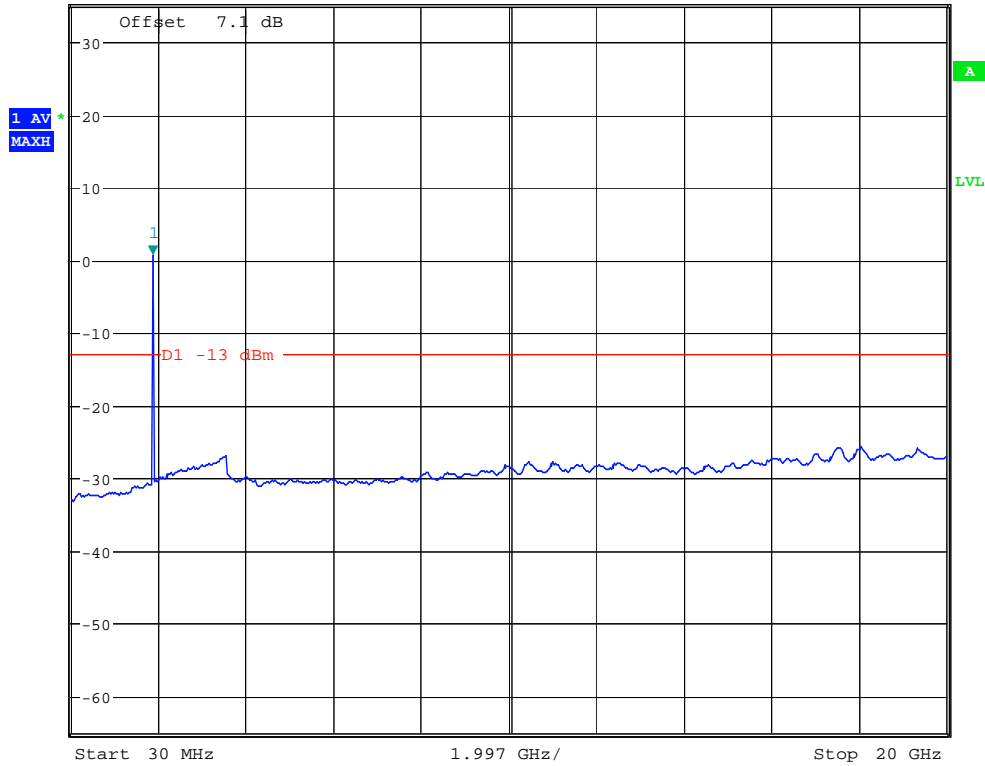
\*RBW 10 kHz      Marker 1 [T1 ]  
 \*VBW 30 kHz      -33.47 dBm  
 Ref 35 dBm      Att 55 dB      SWT 300 ms      197.836538462 kHz



Date: 26.NOV.2010 08:10:19



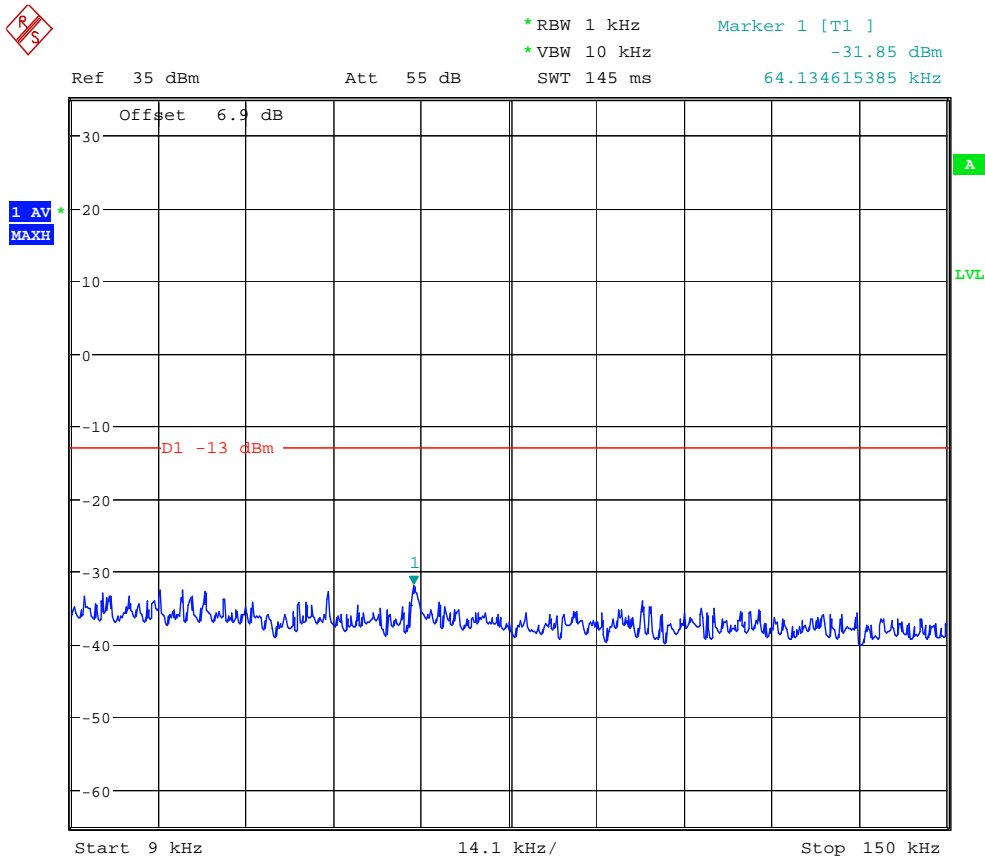
Ref 35 dBm Att 55 dB SWT 115 ms  
\*RBW 1 MHz Marker 1 [T1] 0.69 dBm  
\*VBW 3 MHz 1.886185897 GHz



Date: 26.NOV.2010 08:11:04



# TM2:EDGE Channel 512

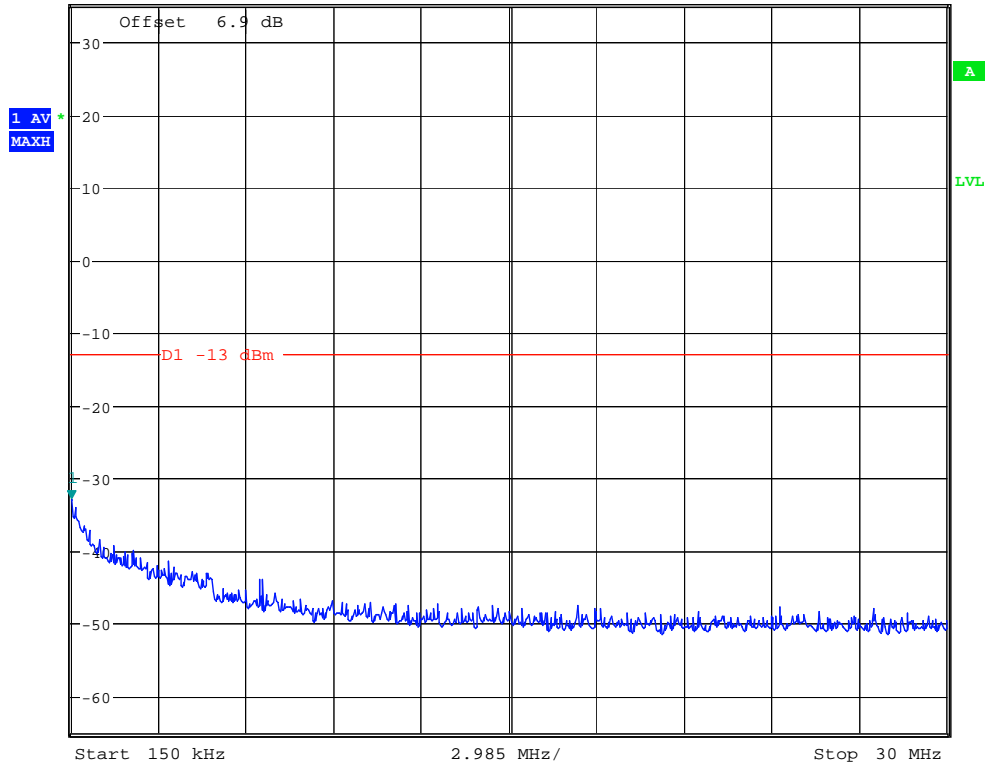


Date: 26.NOV.2010 08:27:26





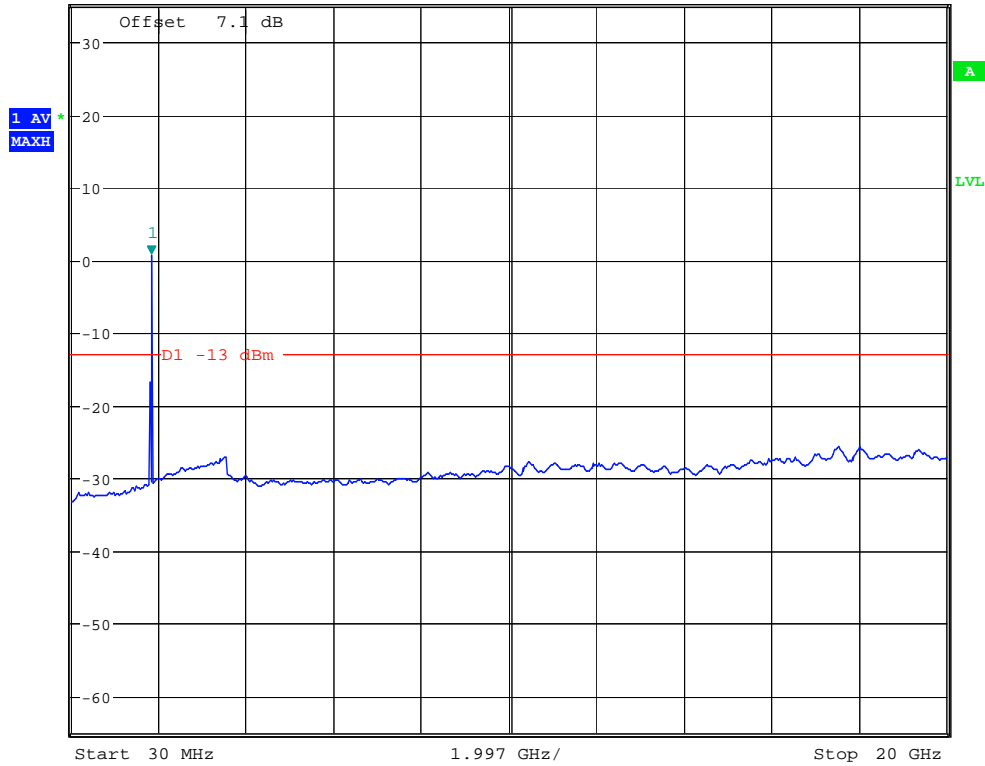
Ref 35 dBm Att 55 dB SWT 300 ms  
\*RBW 10 kHz Marker 1 [T1 ]  
\*VBW 30 kHz -32.90 dBm  
150.00000000 kHz



Date: 26.NOV.2010 08:28:10



Ref 35 dBm Att 55 dB SWT 115 ms  
 \*RBW 1 MHz Marker 1 [T1] 0.67 dBm  
 \*VBW 3 MHz 1.854182692 GHz



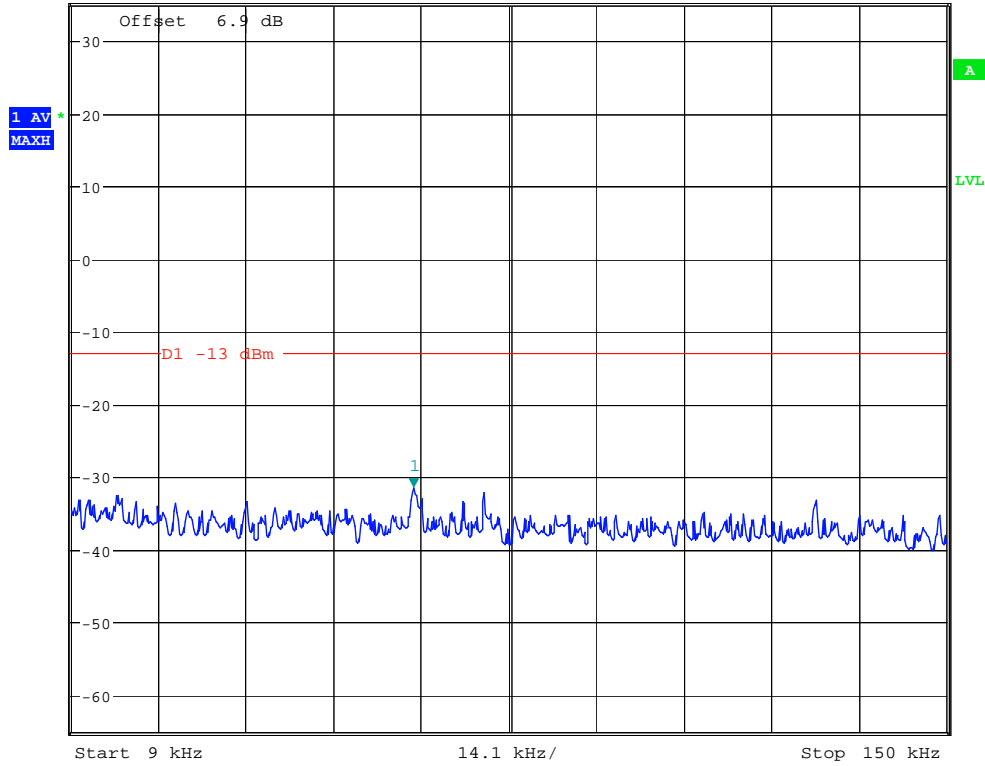
Date: 26.NOV.2010 08:28:55



# Channel 661



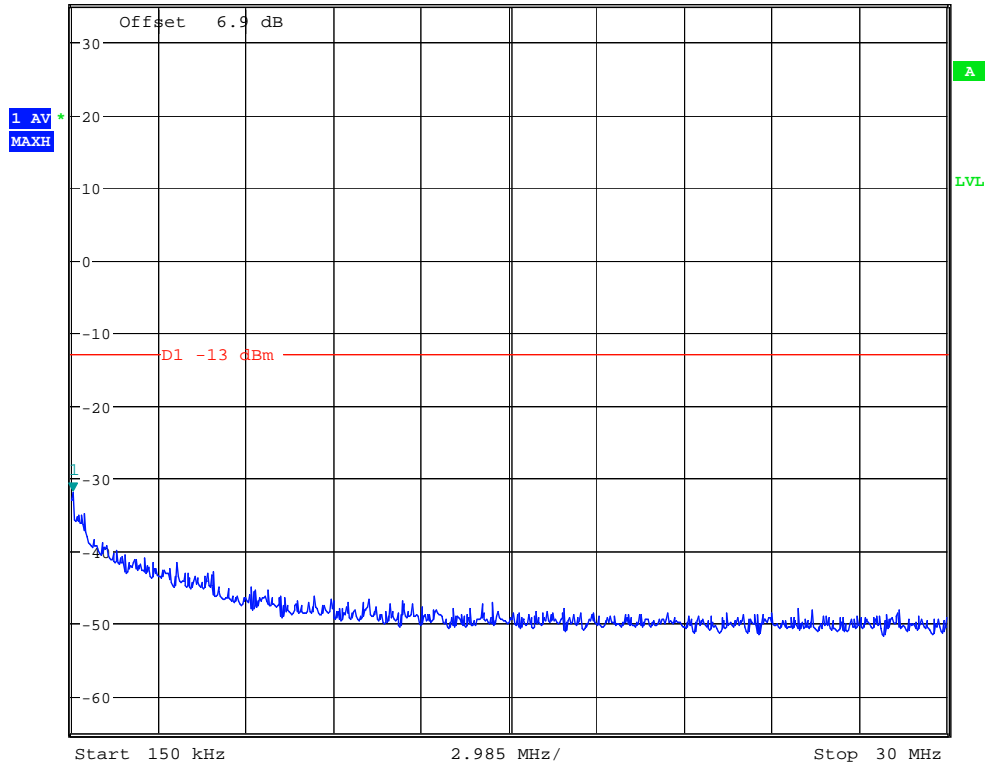
Ref 35 dBm      Att 55 dB      \*RBW 1 kHz      Marker 1 [T1]      \*VBW 10 kHz      -31.41 dBm  
SWT 145 ms      64.134615385 kHz



Date: 26.NOV.2010 08:27:41



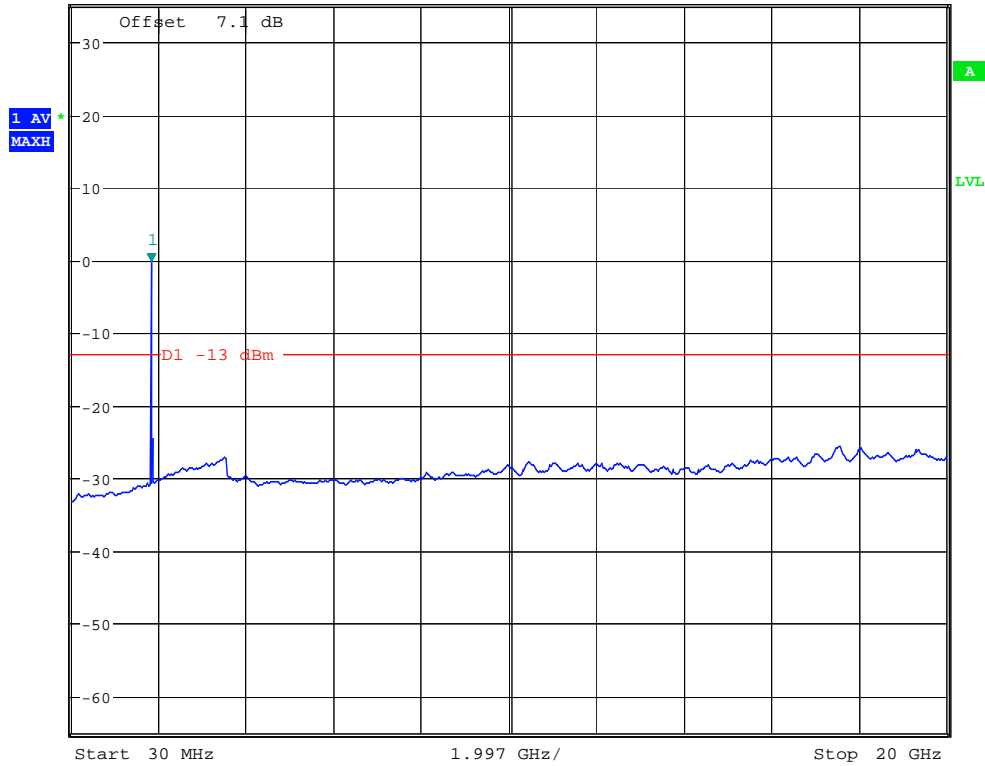
Ref 35 dBm      Att 55 dB      SWT 300 ms      Marker 1 [T1]      -31.89 dBm  
\*RBW 10 kHz      \*VBW 30 kHz      197.836538462 kHz



Date: 26.NOV.2010 08:28:25



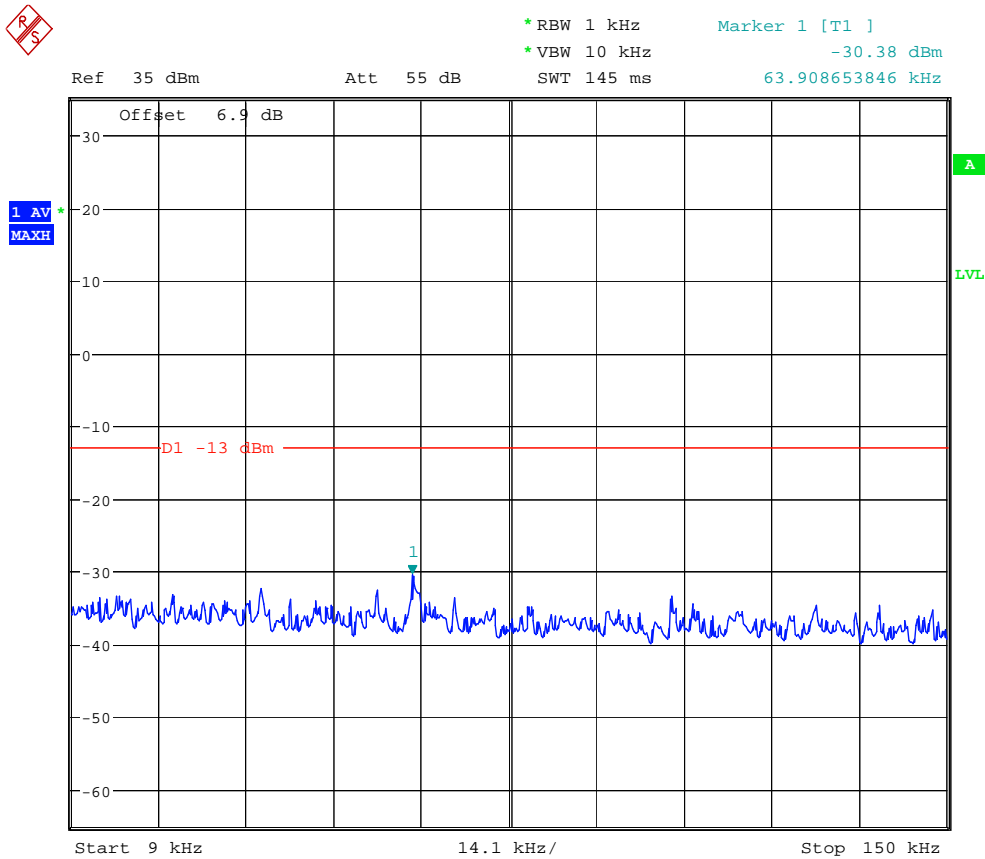
Ref 35 dBm Att 55 dB SWT 115 ms  
\*RBW 1 MHz Marker 1 [T1] -0.30 dBm  
\*VBW 3 MHz 1.854182692 GHz



Date: 26.NOV.2010 08:29:09



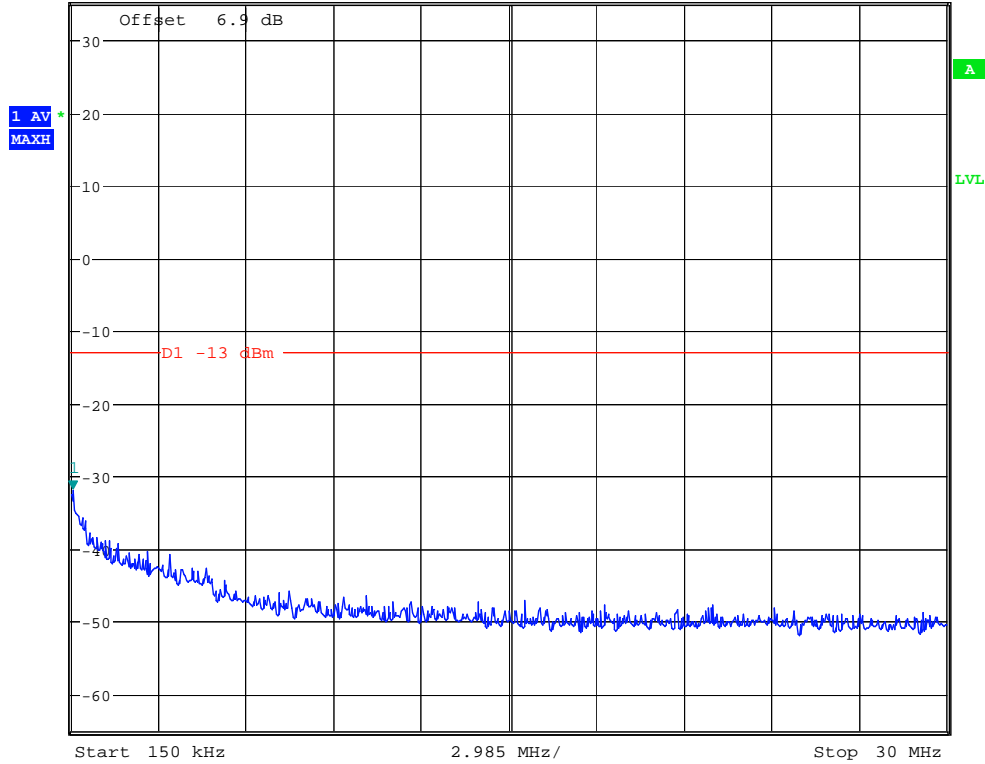
# Channel 810



Date: 26.NOV.2010 08:27:55



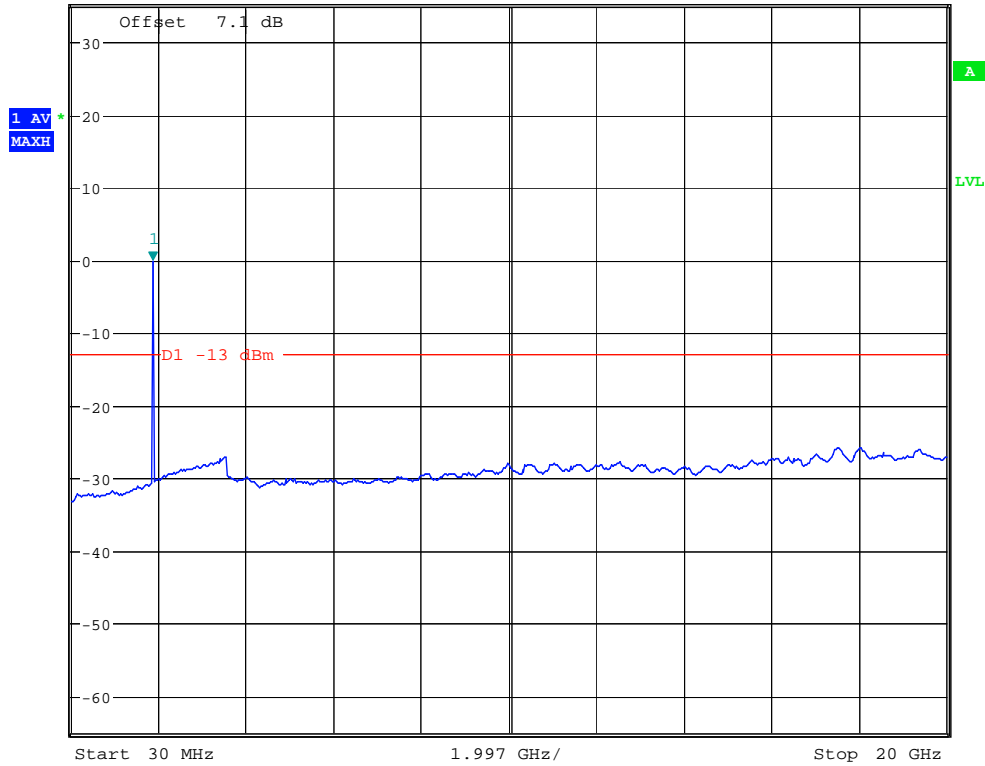
\*RBW 10 kHz      Marker 1 [T1 ]  
 \*VBW 30 kHz      -31.86 dBm  
 Ref 35 dBm      Att 55 dB      SWT 300 ms      197.836538462 kHz



Date: 26.NOV.2010 08:28:40



Ref 35 dBm Att 55 dB SWT 115 ms  
\*RBW 1 MHz Marker 1 [T1] -0.27 dBm  
\*VBW 3 MHz 1.886185897 GHz



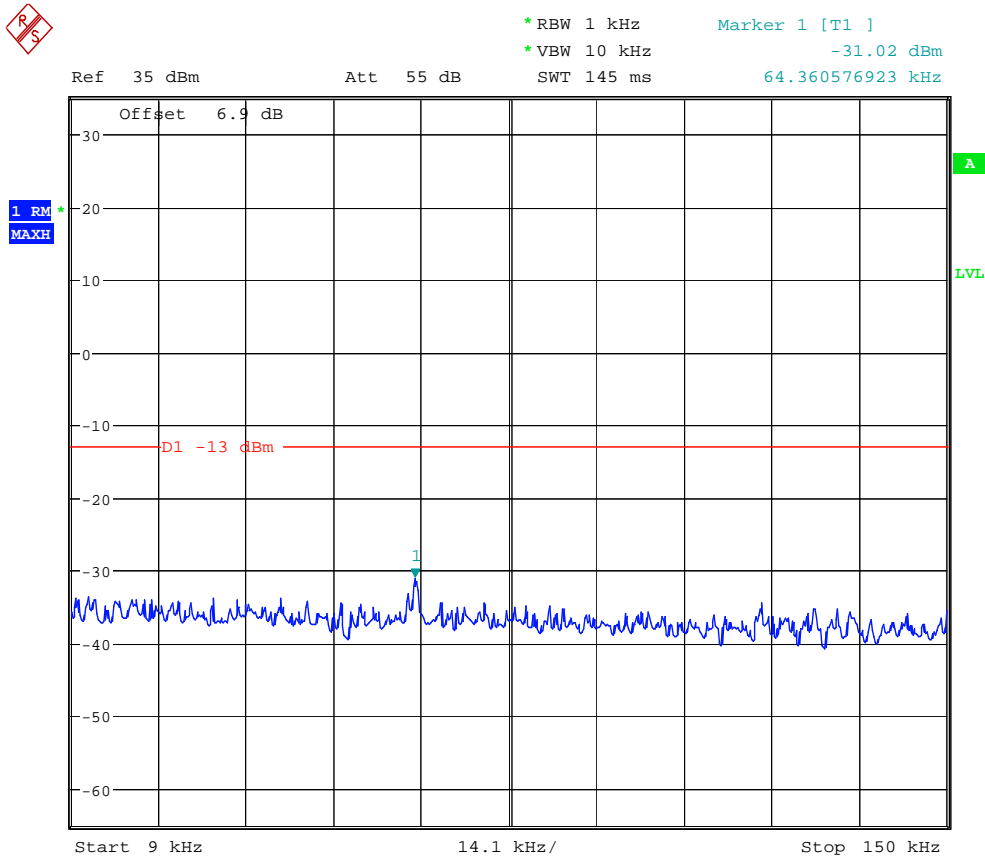
Date: 26.NOV.2010 08:29:24





# TM3: WCDMA

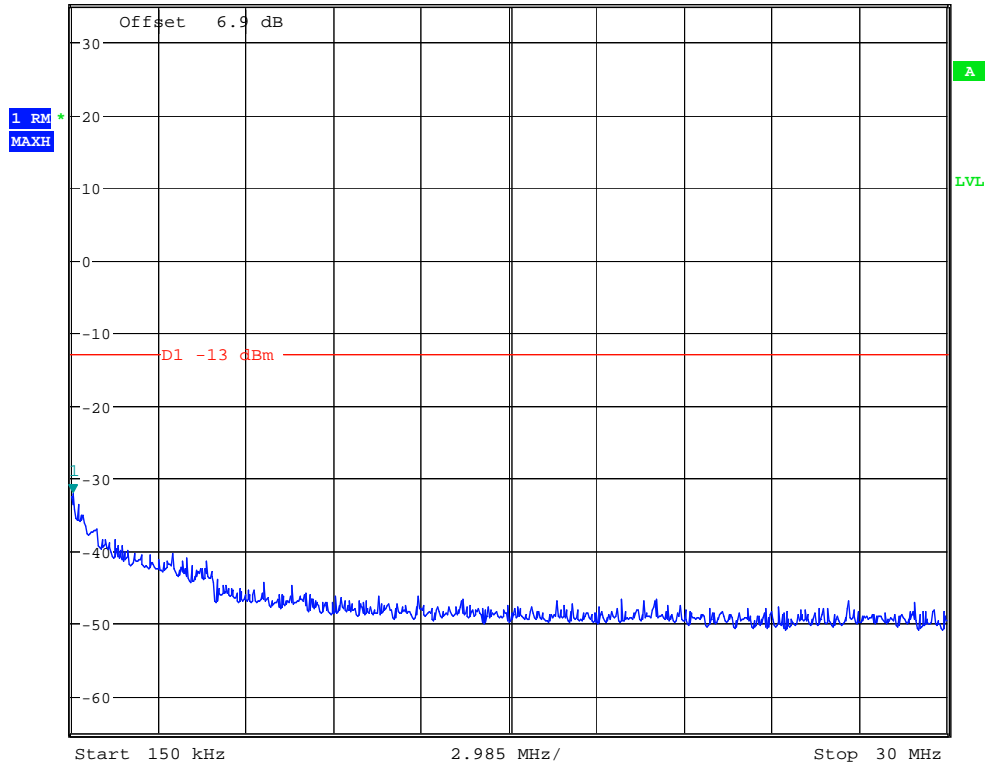
## Channel 9262



Date: 26.NOV.2010 08:38:17



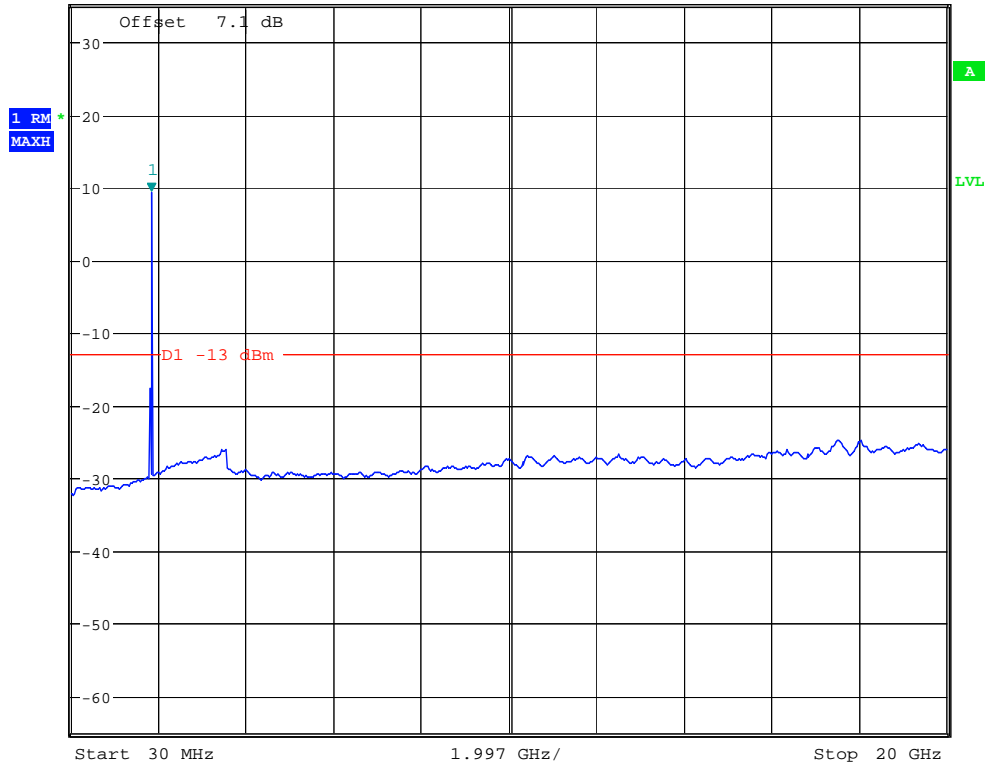
Ref 35 dBm Att 55 dB SWT 300 ms  
\*RBW 10 kHz Marker 1 [T1 ]  
\*VBW 30 kHz -32.15 dBm  
197.836538462 kHz



Date: 26.NOV.2010 08:39:01



Ref 35 dBm Att 55 dB SWT 115 ms  
\*RBW 1 MHz Marker 1 [T1 ]  
\*VBW 3 MHz 9.19 dBm  
1.854182692 GHz



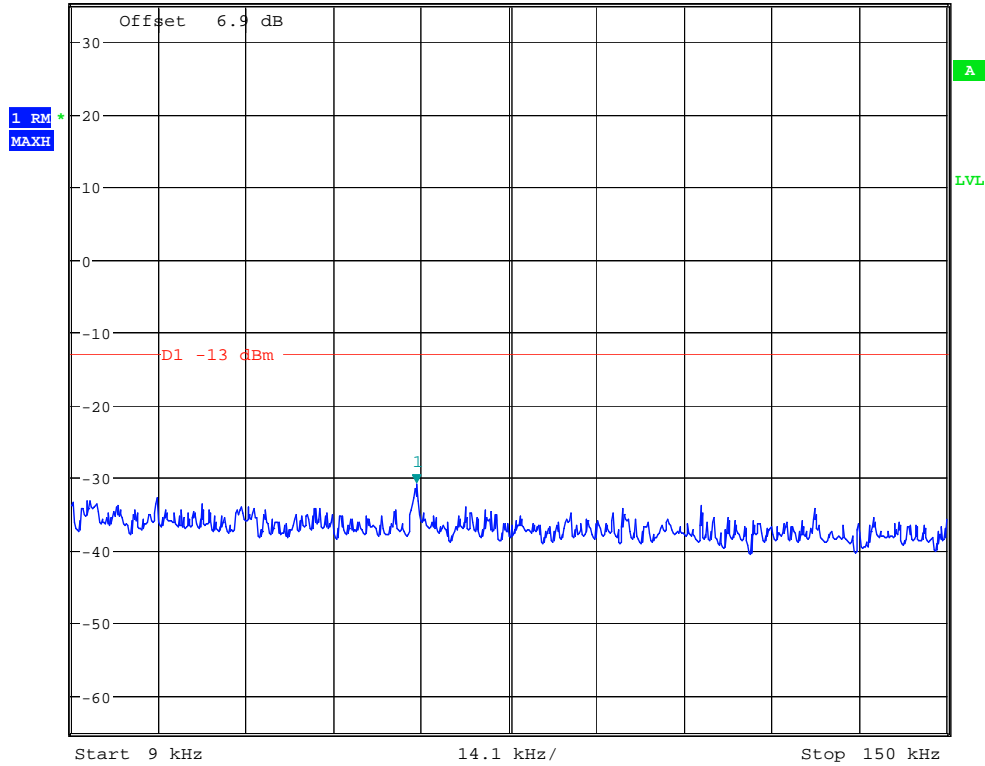
Date: 26.NOV.2010 08:39:46



# Channel 9400



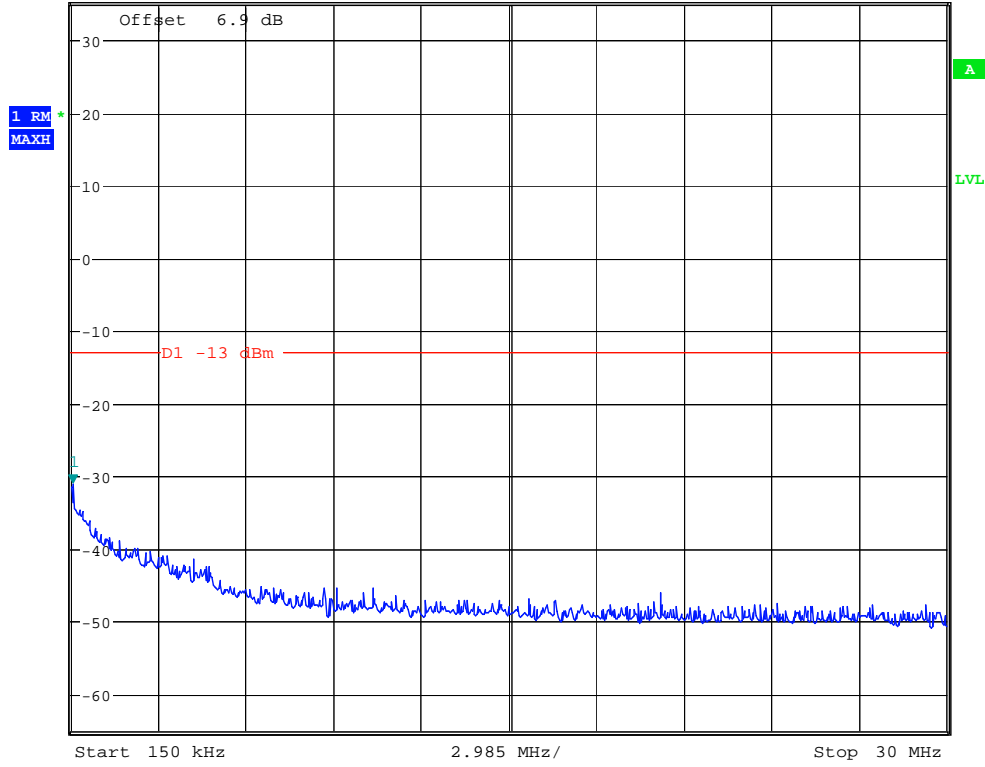
Ref 35 dBm      Att 55 dB      \*RBW 1 kHz      Marker 1 [T1]      -30.76 dBm  
\*VBW 10 kHz      SWT 145 ms      64.586538462 kHz



Date: 26.NOV.2010 08:38:32



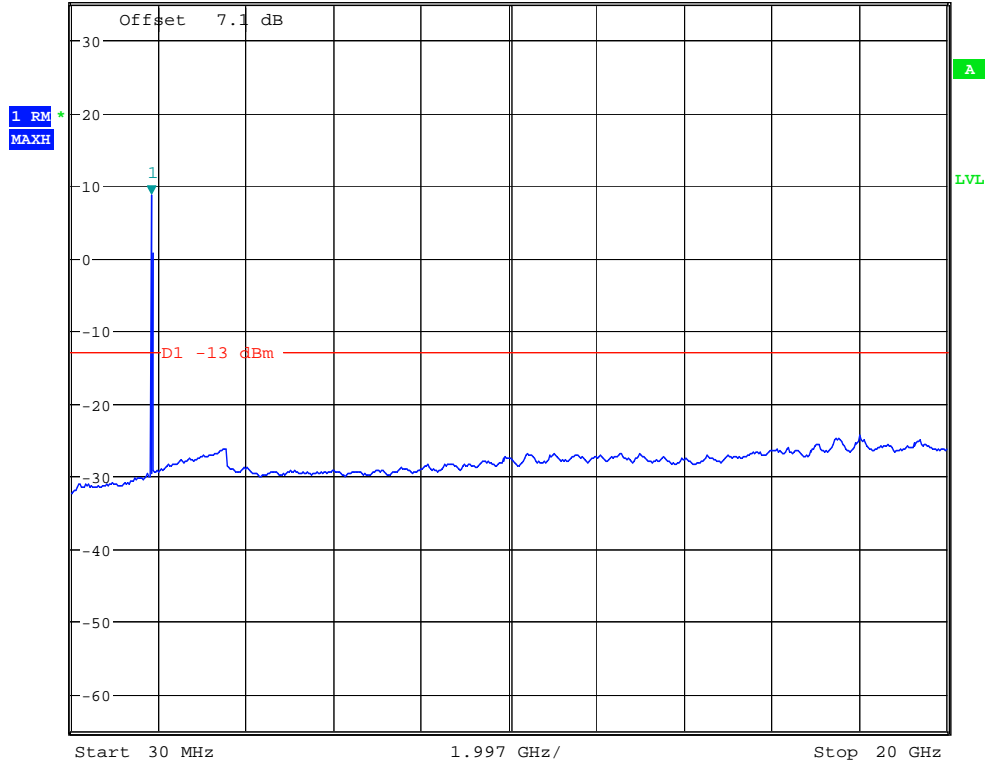
Ref 35 dBm Att 55 dB SWT 300 ms  
\*RBW 10 kHz Marker 1 [T1 ]  
\*VBW 30 kHz -31.17 dBm  
197.836538462 kHz



Date: 26.NOV.2010 08:39:16



Ref 35 dBm Att 55 dB SWT 115 ms  
\*RBW 1 MHz Marker 1 [T1 ]  
\*VBW 3 MHz 8.63 dBm  
1.854182692 GHz



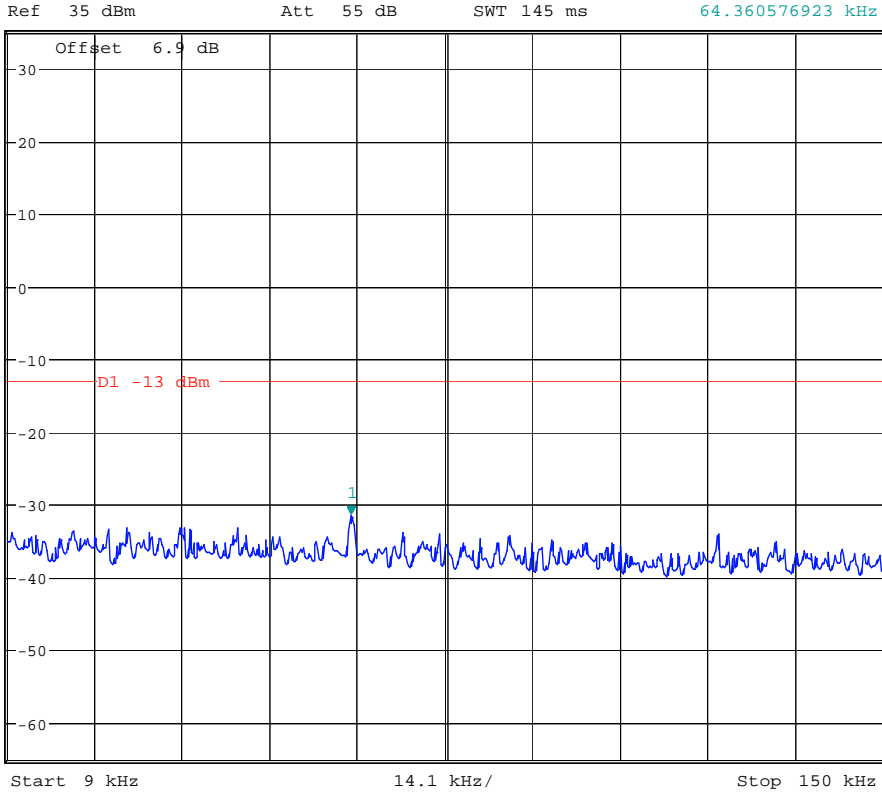
Date: 26.NOV.2010 08:40:01



# Channel 9538



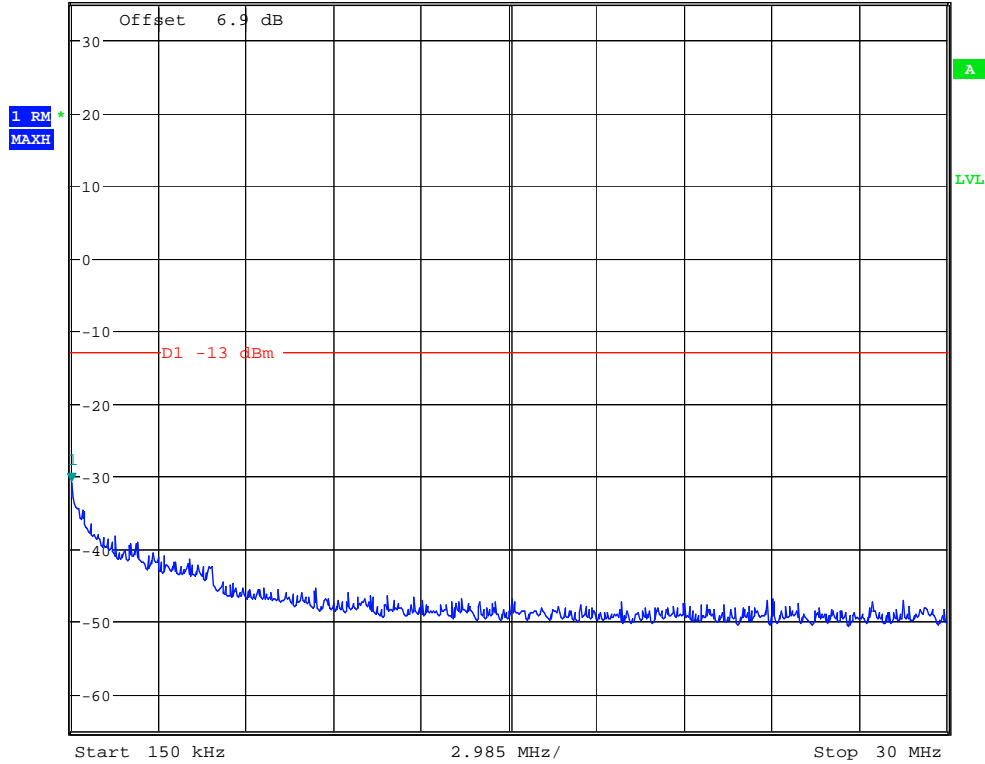
\*RBW 1 kHz      Marker 1 [T1 ]  
\*VBW 10 kHz      -31.52 dBm  
SWT 145 ms      64.360576923 kHz



Date: 26.NOV.2010 08:38:46



\*RBW 10 kHz      Marker 1 [T1 ]  
 \*VBW 30 kHz      -30.78 dBm  
 Ref 35 dBm      Att 55 dB      SWT 300 ms      150.00000000 kHz

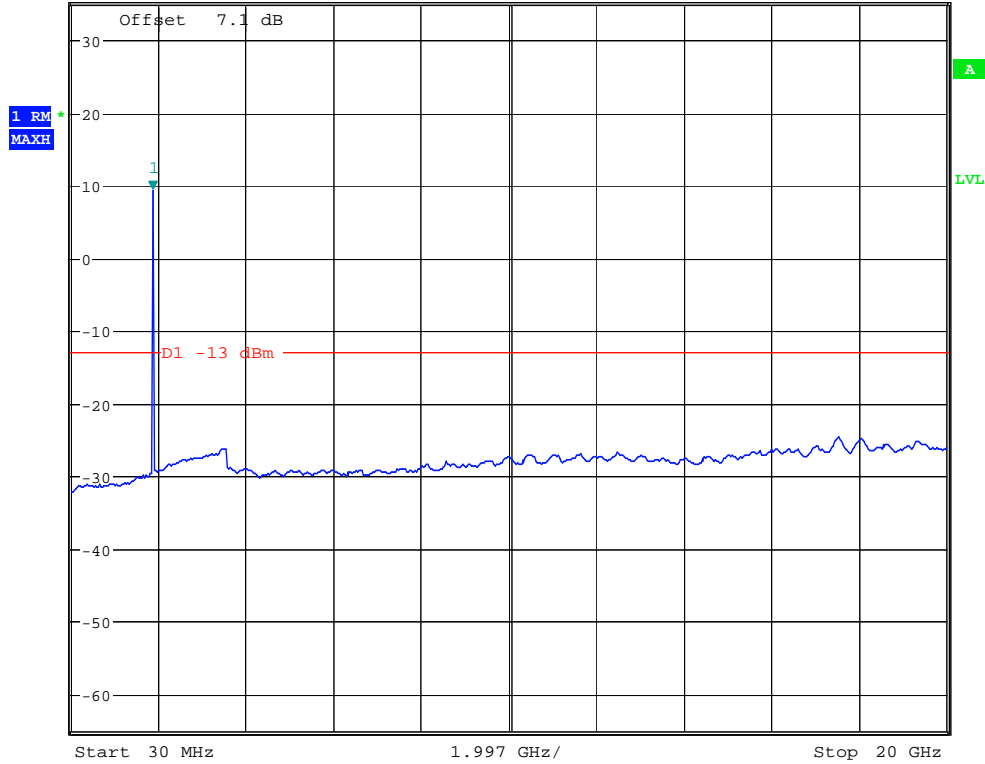


Date: 26.NOV.2010 08:39:31





Ref 35 dBm Att 55 dB SWT 115 ms  
\*RBW 1 MHz Marker 1 [T1 ]  
\*VBW 3 MHz 9.27 dBm  
1.886185897 GHz



Date: 26.NOV.2010 08:40:15