



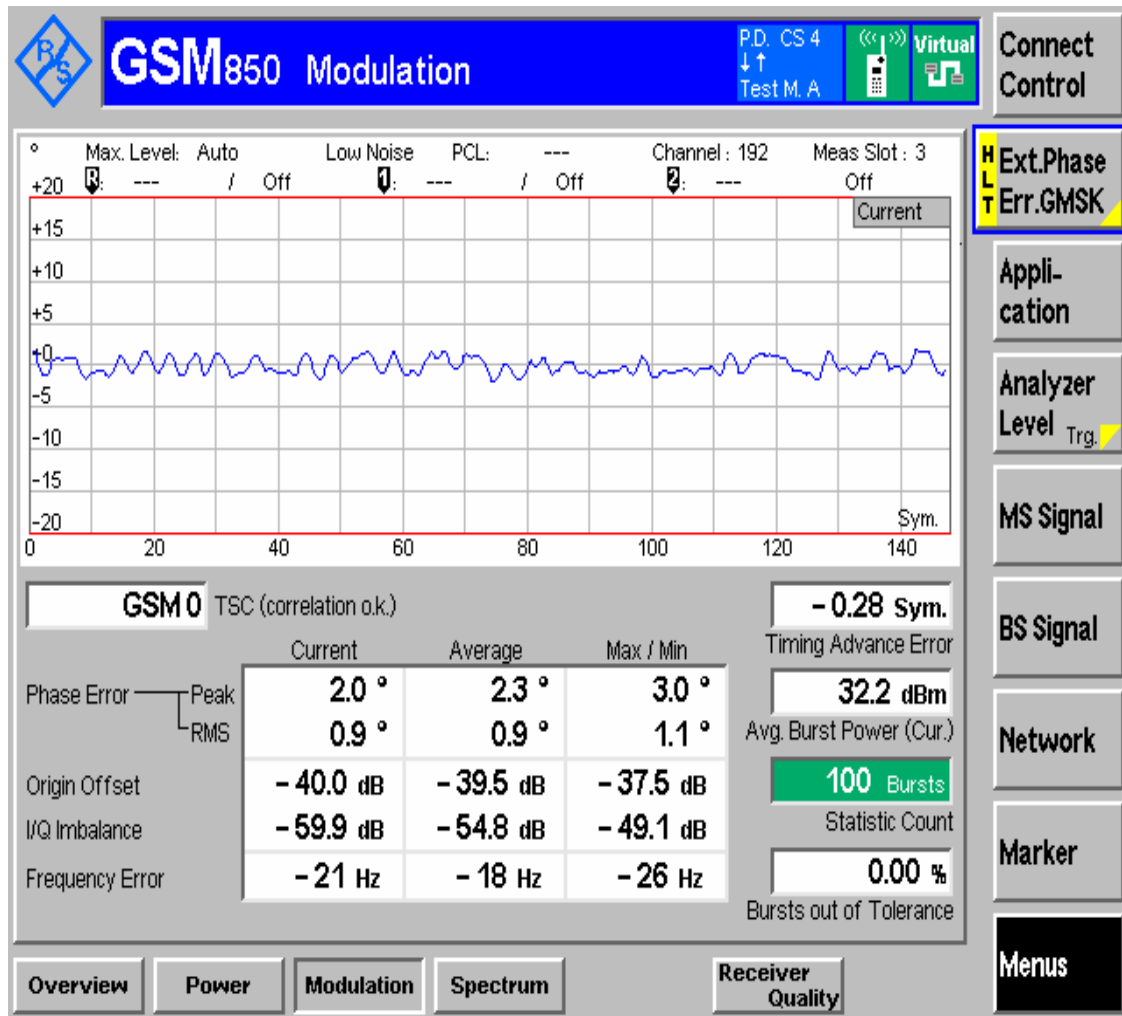
Appendix A

Modulation Characteristics

According to FCC Part 2.1047 & Part22 Subpart H

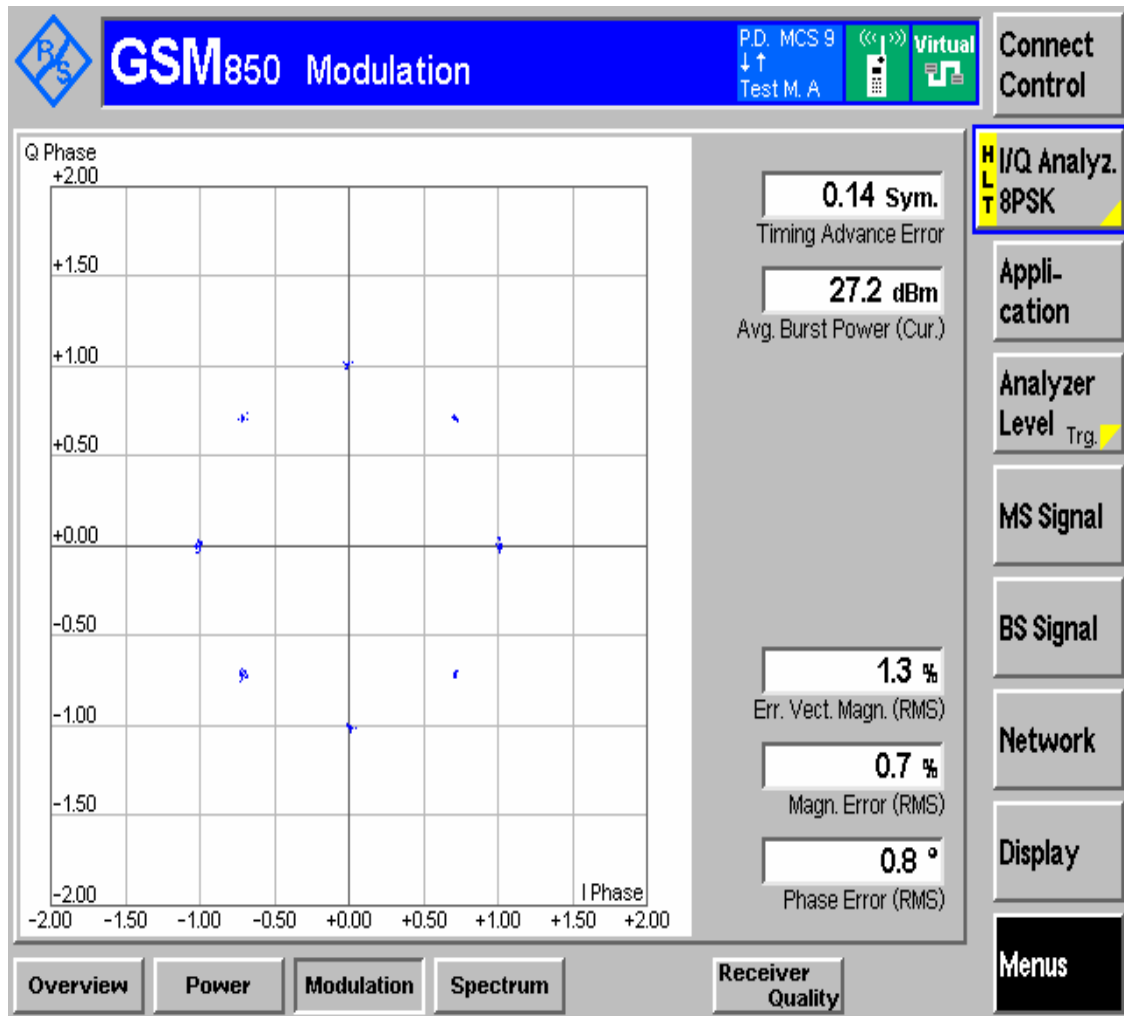


Channel 192 (TM1:GPRS/GSM)



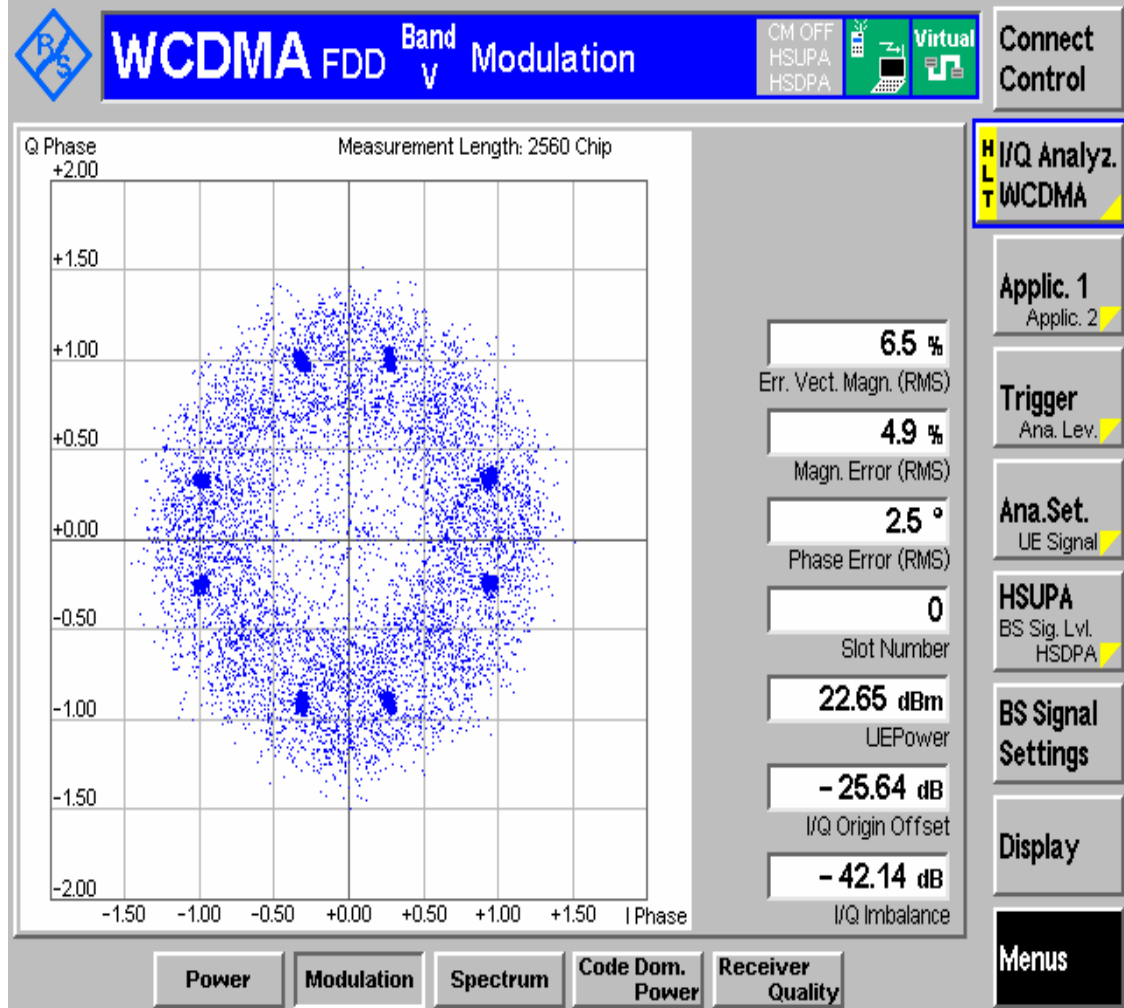


Channel 192 (TM2:EDGE)





Channel 4182 (TM3: WCDMA)





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



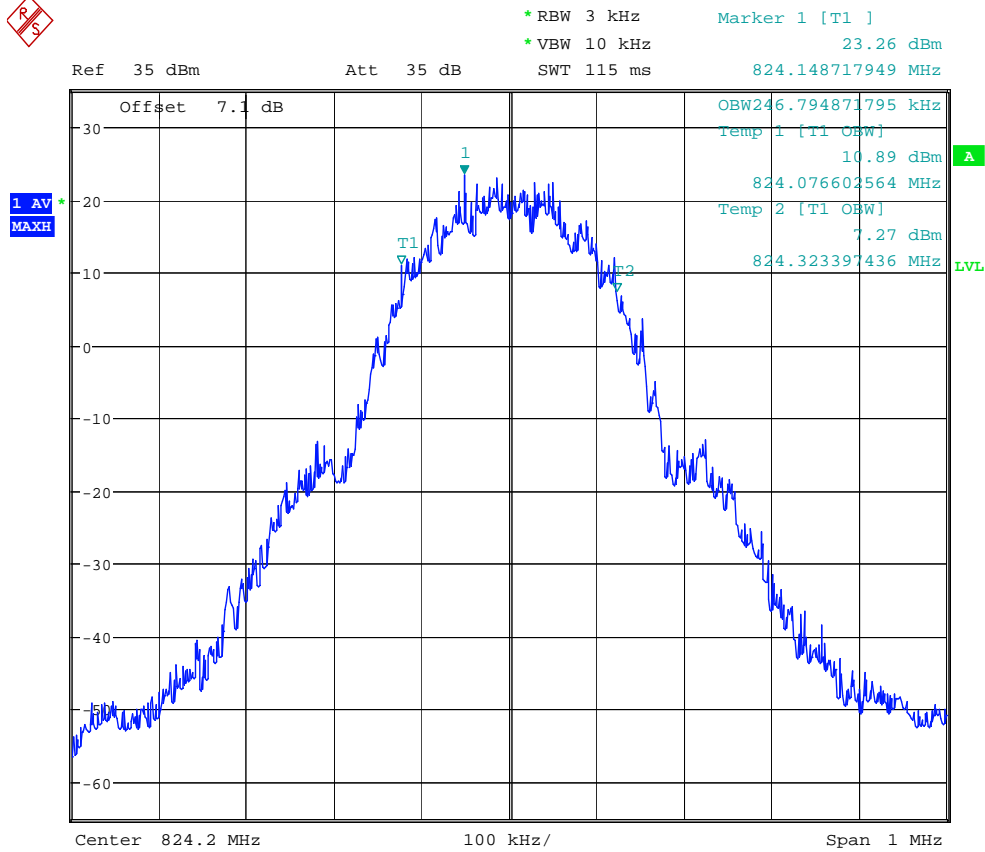
Appendix B

Occupied Bandwidth

According to FCC Part 2.1049 & Part 22 Subpart H
& RSS-132



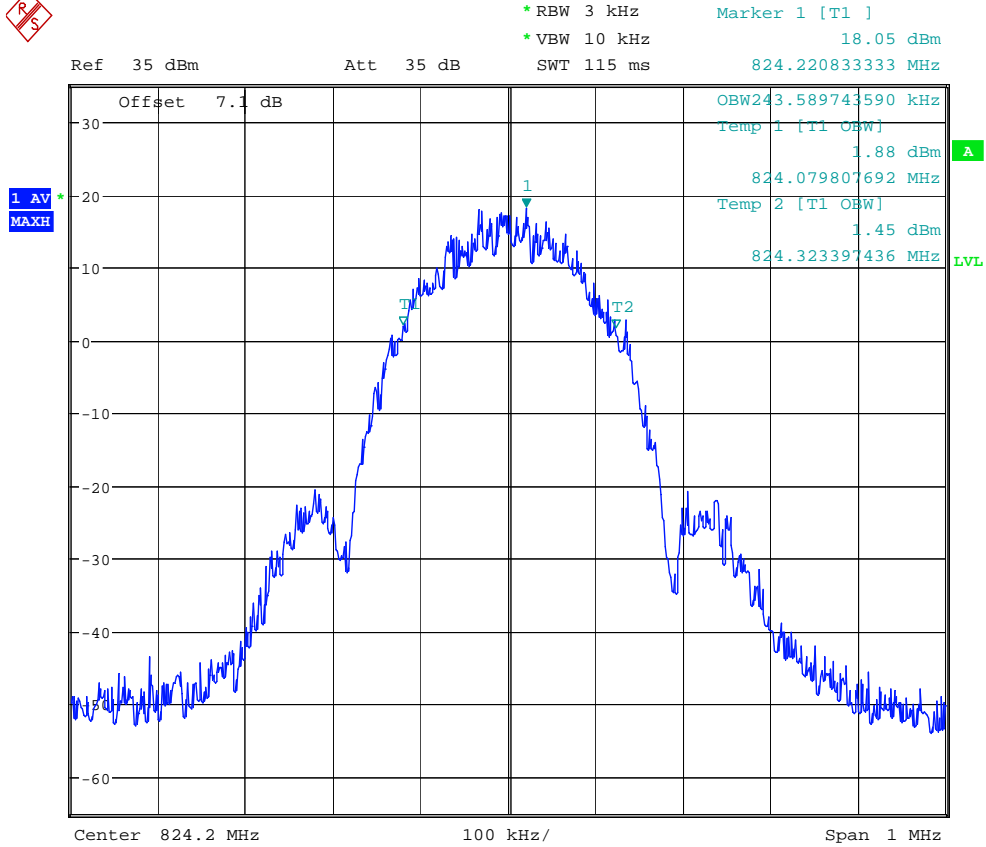
Channel 128 (TM1:GPRS/GSM)



Date: 25.NOV.2010 07:47:45



Channel 128 (TM2:EDGE)



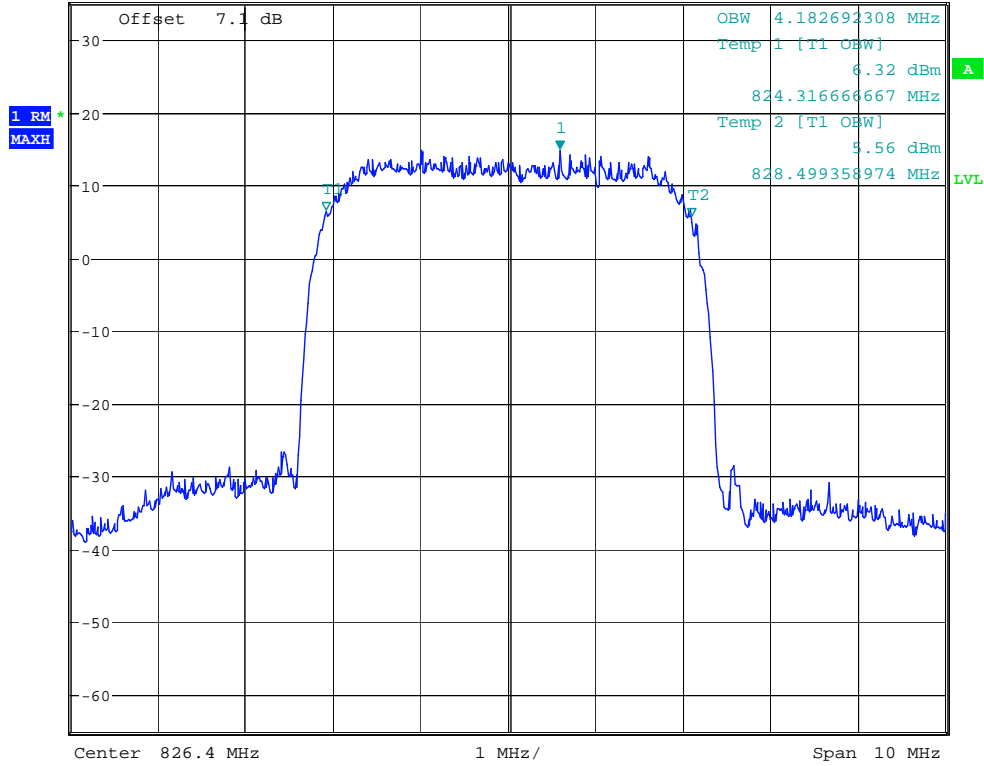
Date: 25.NOV.2010 08:08:27



Channel 4132 (TM3: WCDMA)



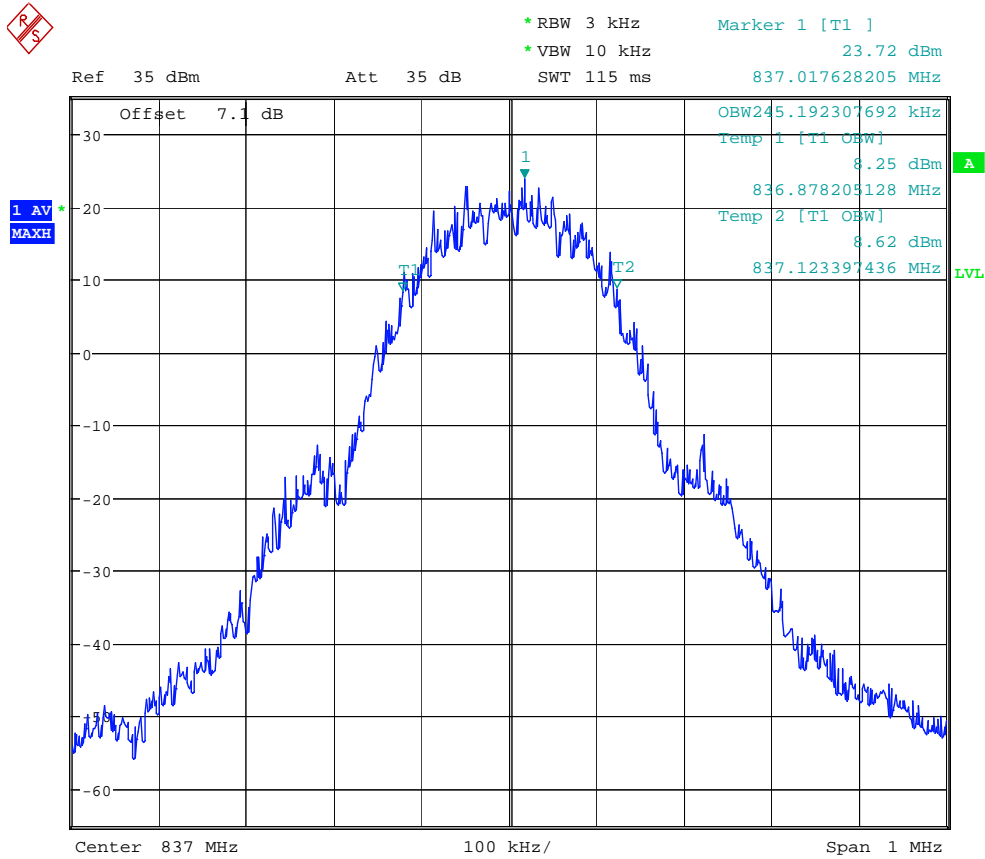
*RBW 50 kHz Marker 1 [T1] 14.74 dBm
 *VBW 500 kHz
 Ref 35 dBm Att 35 dB SWT 5 ms 826.992948718 MHz



Date: 25.NOV.2010 08:13:07



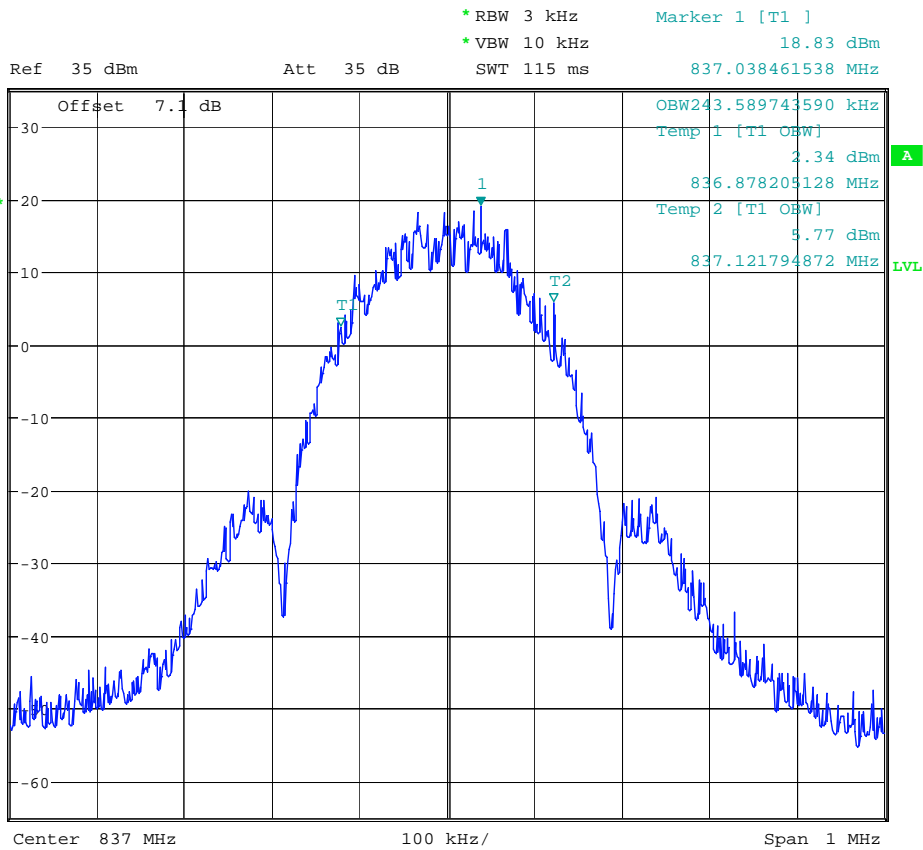
Channel 192 (TM1:GPRS/GSM)



Date: 25.NOV.2010 07:47:59



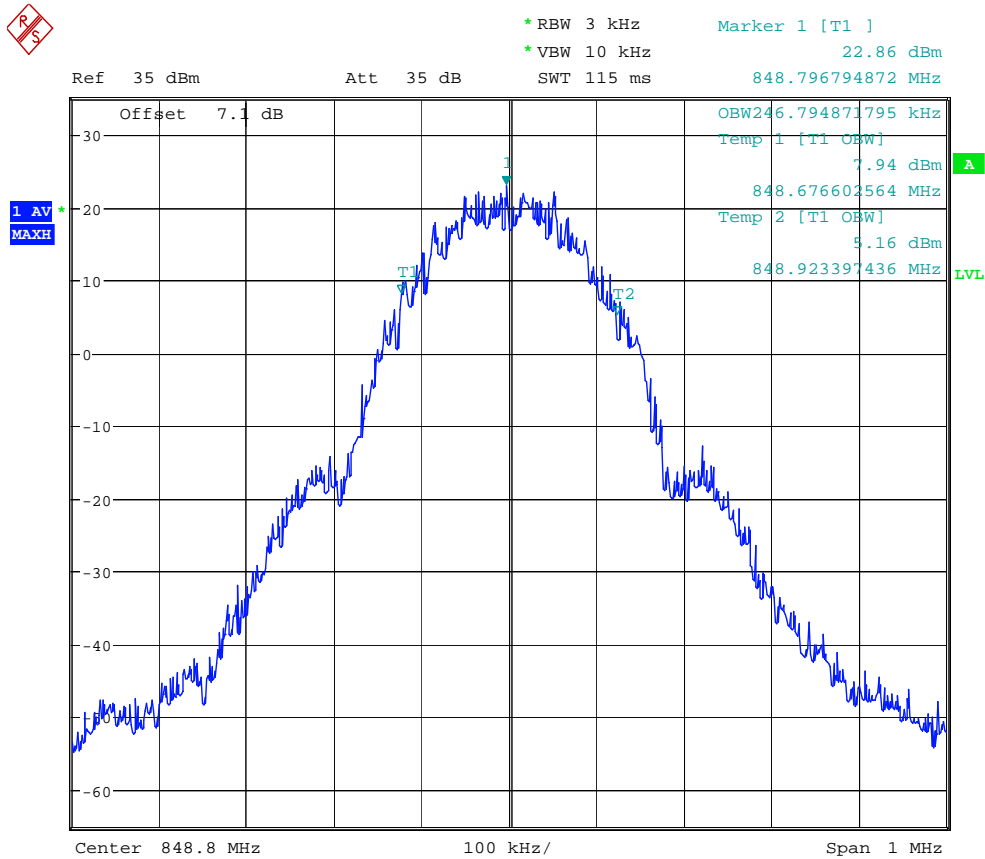
Channel 192 (TM2:EDGE)



Date: 25.NOV.2010 08:08:41



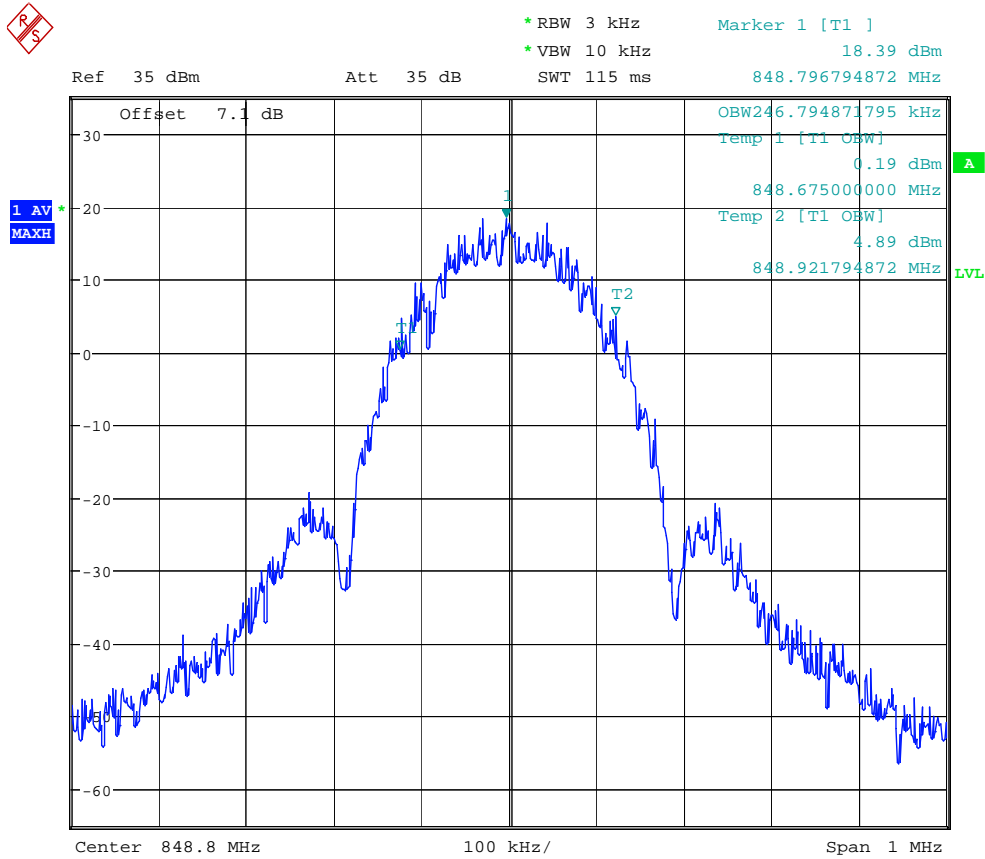
Channel 251 (TM1:GPRS/GSM)



Date: 25.NOV.2010 07:48:13



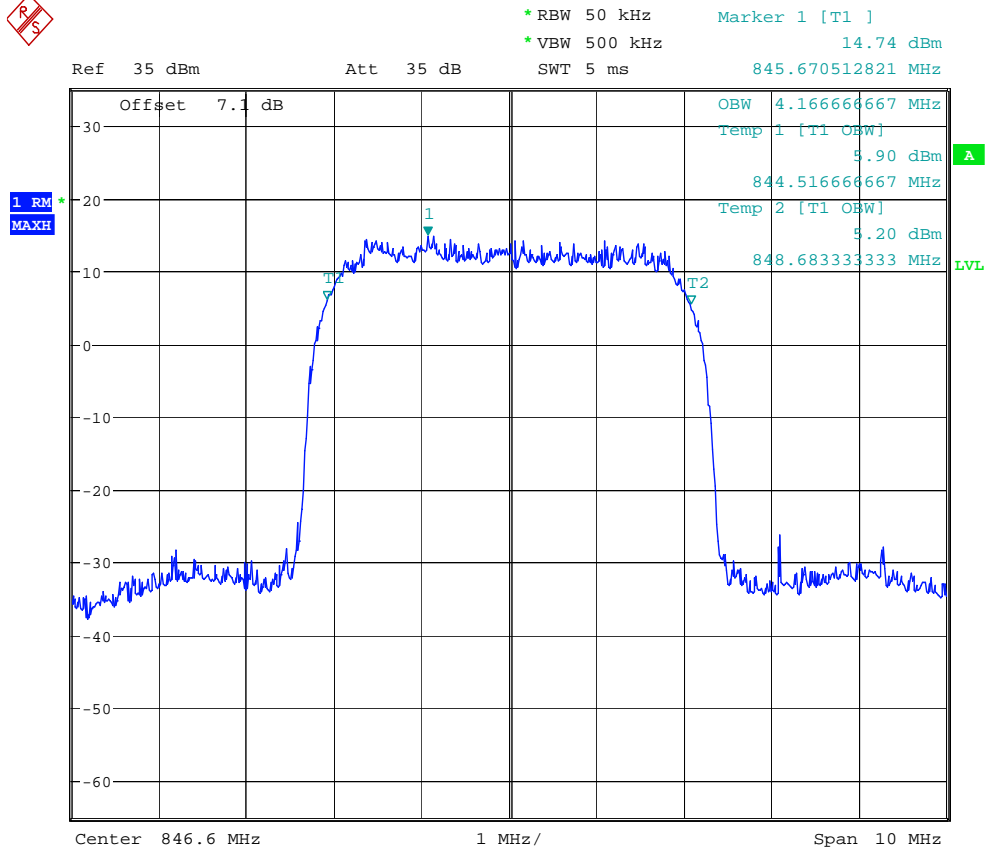
Channel 251 (TM2:EDGE)



Date: 25.NOV.2010 08:08:54



Channel 4233 (TM3: WCDMA)



Date: 25.NOV.2010 08:13:35



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



Appendix C

Band Edges Compliance

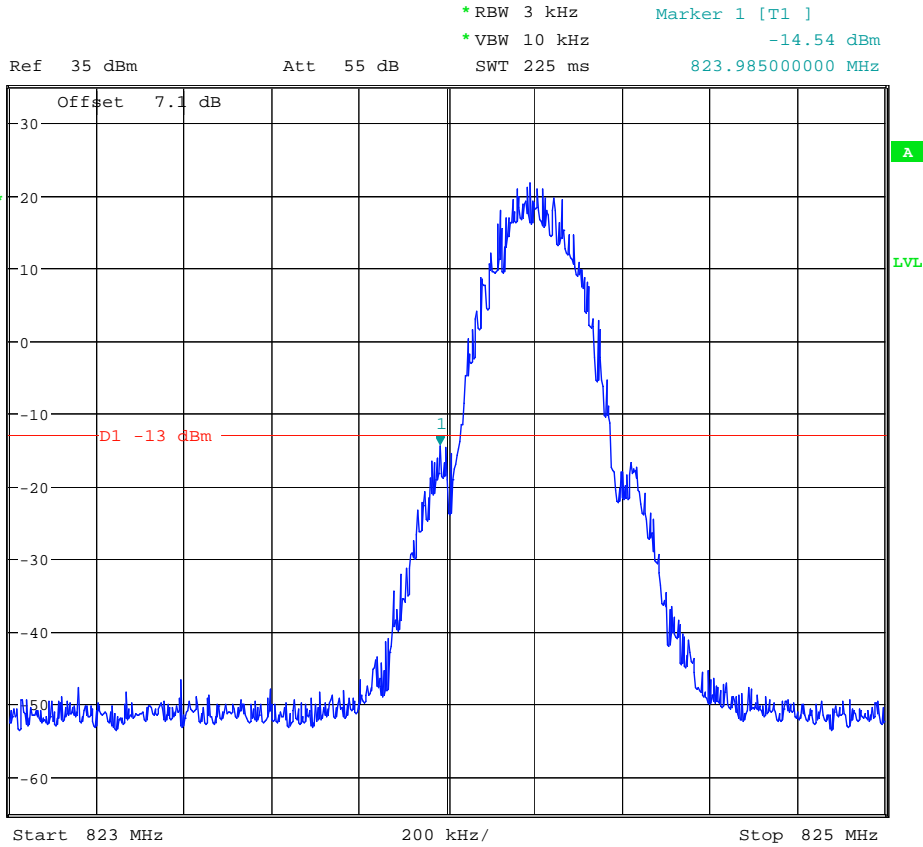
According to FCC Part 2.1051 & Part 22 Subpart H
& RSS-132



TM1:GPRS/GSM

Left Edge

Channel 128



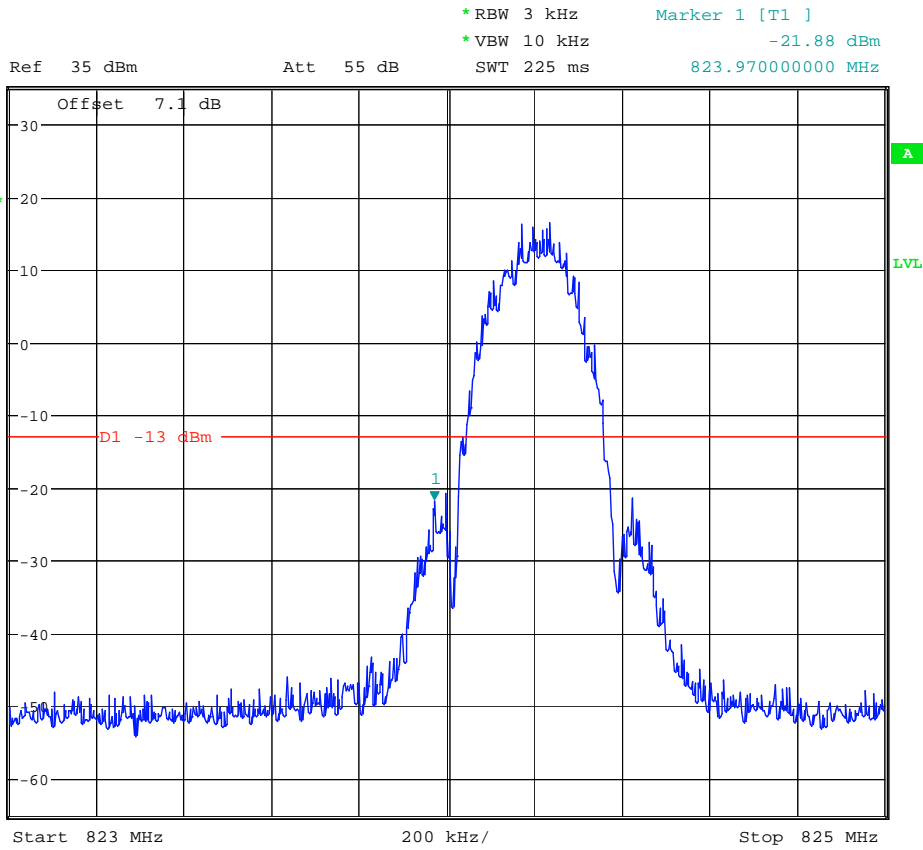
Date: 25.NOV.2010 07:51:27



TM2:EDGE

Left Edge

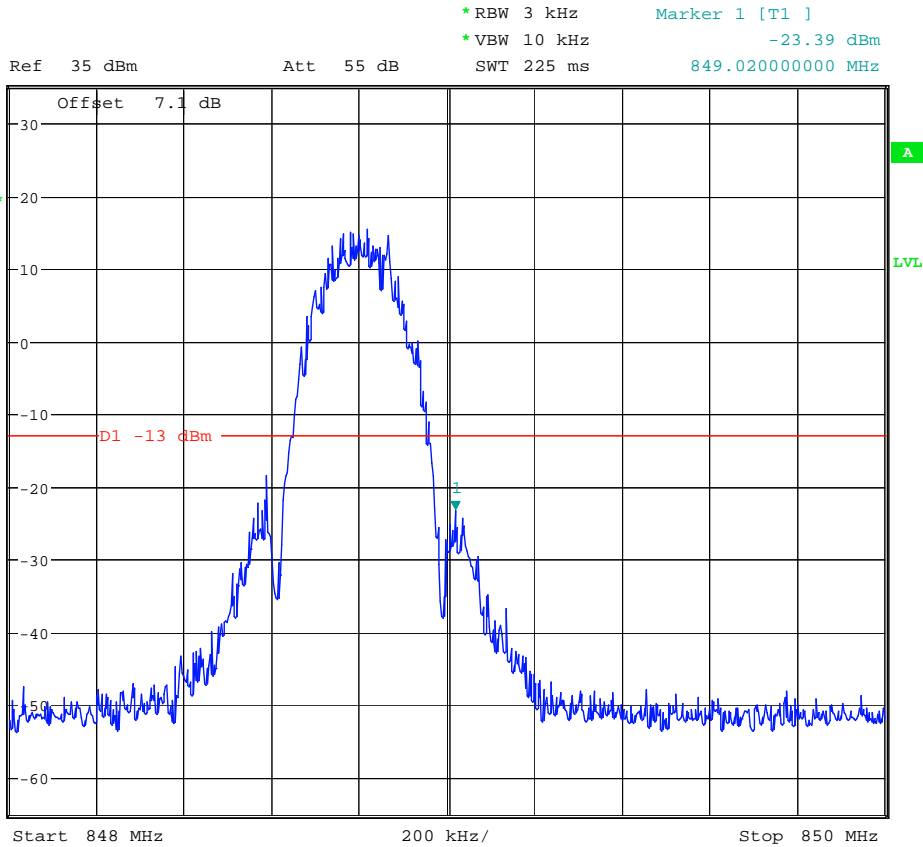
Channel 128



Date: 25.NOV.2010 08:07:58



Right Edge Channel 251



Date: 25.NOV.2010 08:08:12



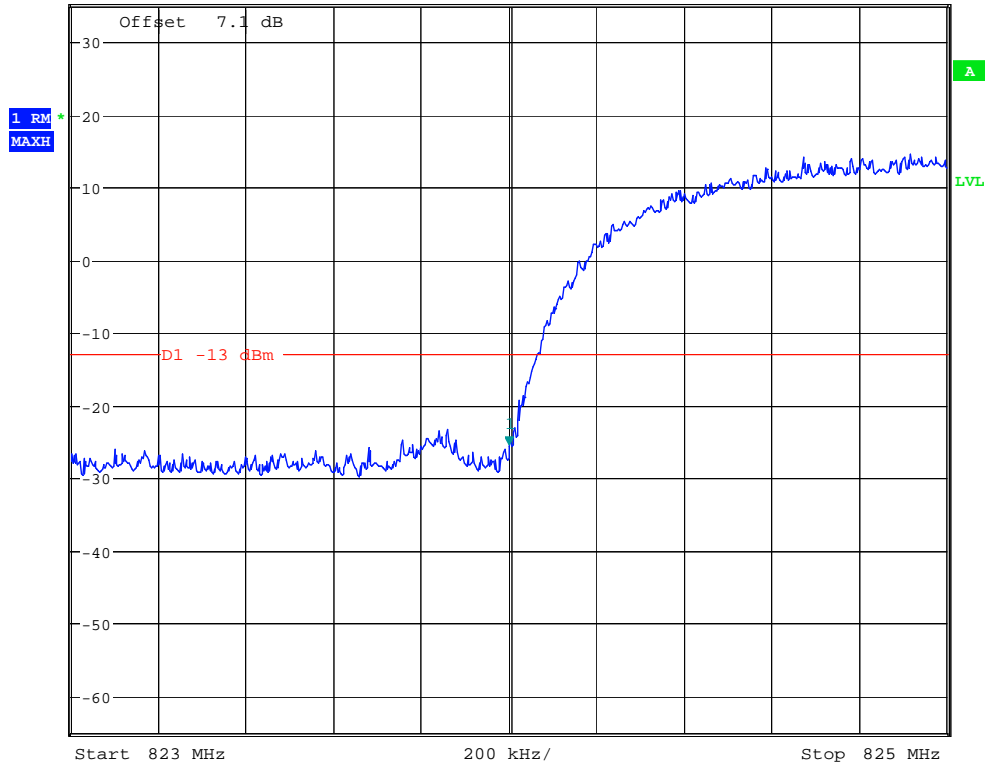
TM3: WCDMA

Left Edge

Channel 4132



Ref 35 dBm Att 55 dB SWT 2.5 ms Marker 1 [T1] -25.51 dBm
*RBW 50 kHz *VBW 200 kHz 824.000000000 MHz



Date: 25.NOV.2010 08:13:50

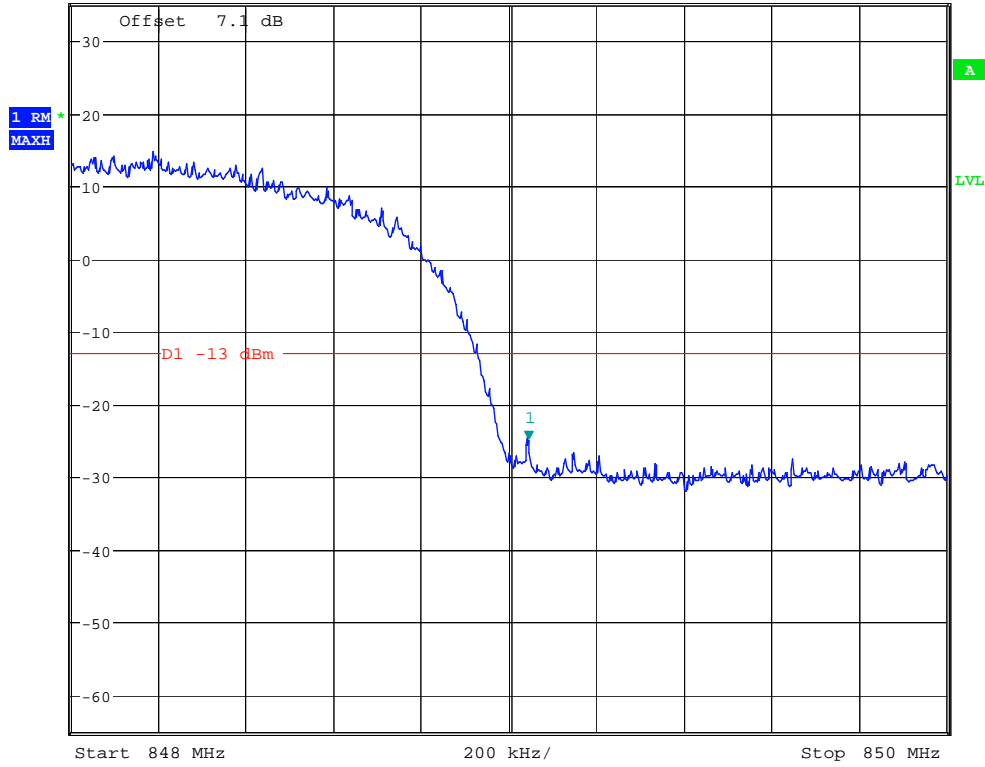
Right Edge



Channel 4233



Ref 35 dBm Att 55 dB SWT 2.5 ms Marker 1 [T1] -25.00 dBm
849.04500000 MHz



Date: 25.NOV.2010 08:14:04



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



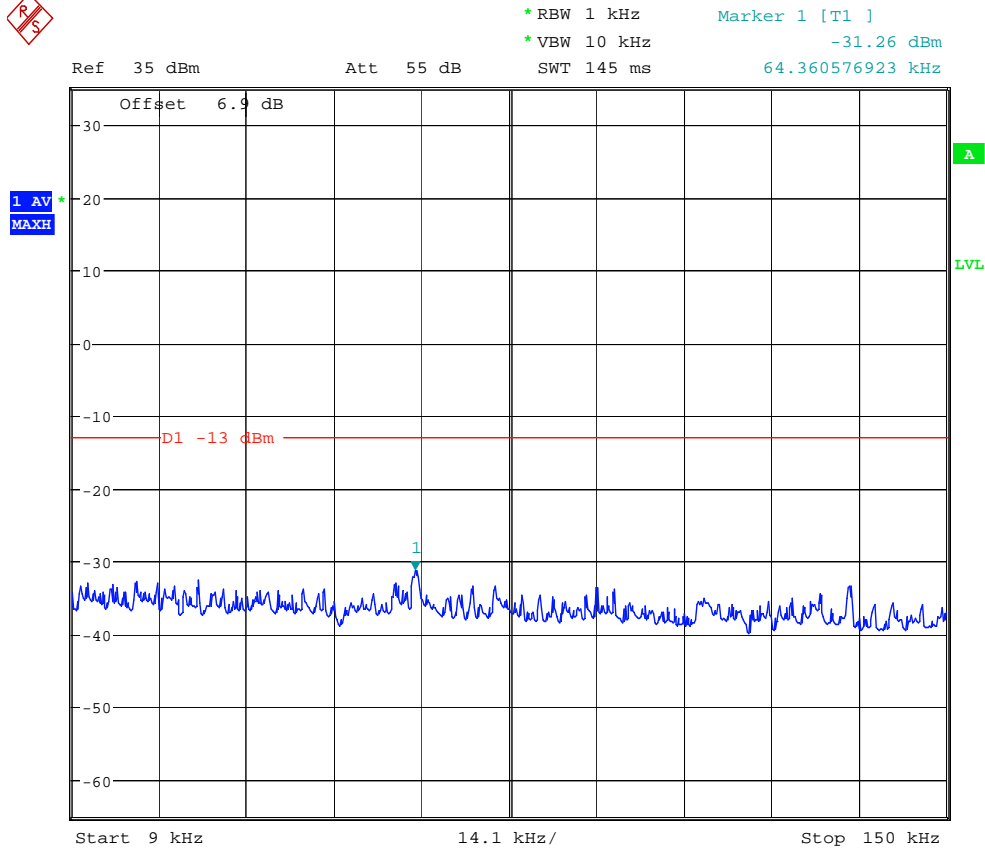
Appendix D

Spurious Emission at Antenna Terminal

According to FCC Part 2.1051 & Part 22 Subpart H
& RSS-132



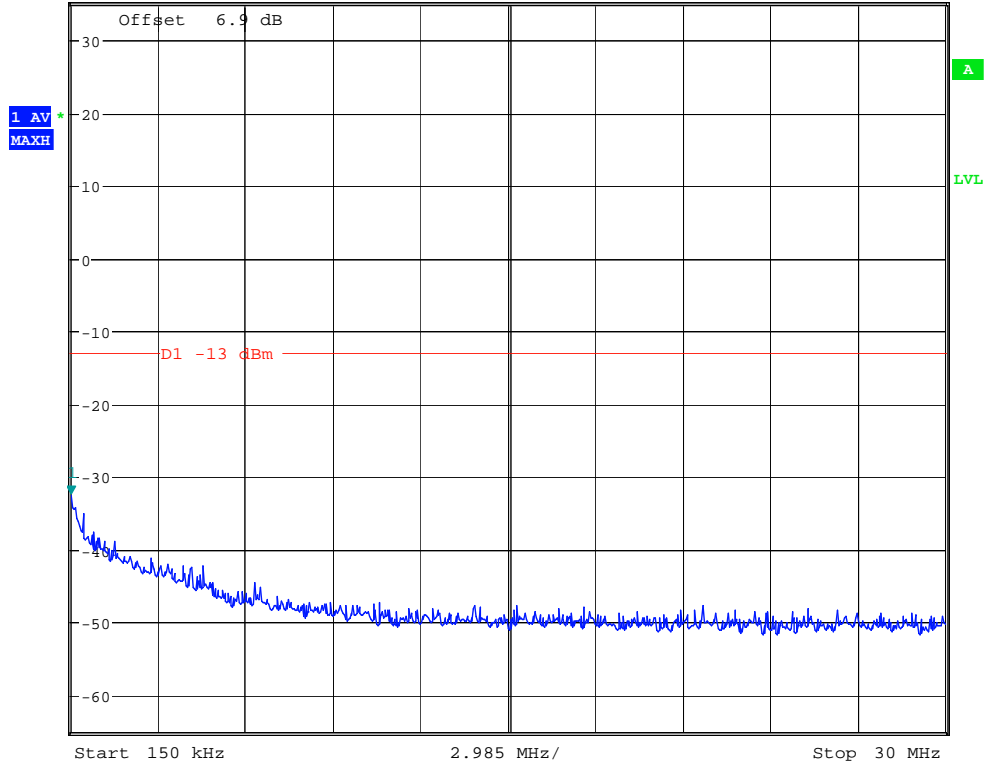
TM1:GPRS/GSM Channel 128



Date: 25.NOV.2010 07:48:29



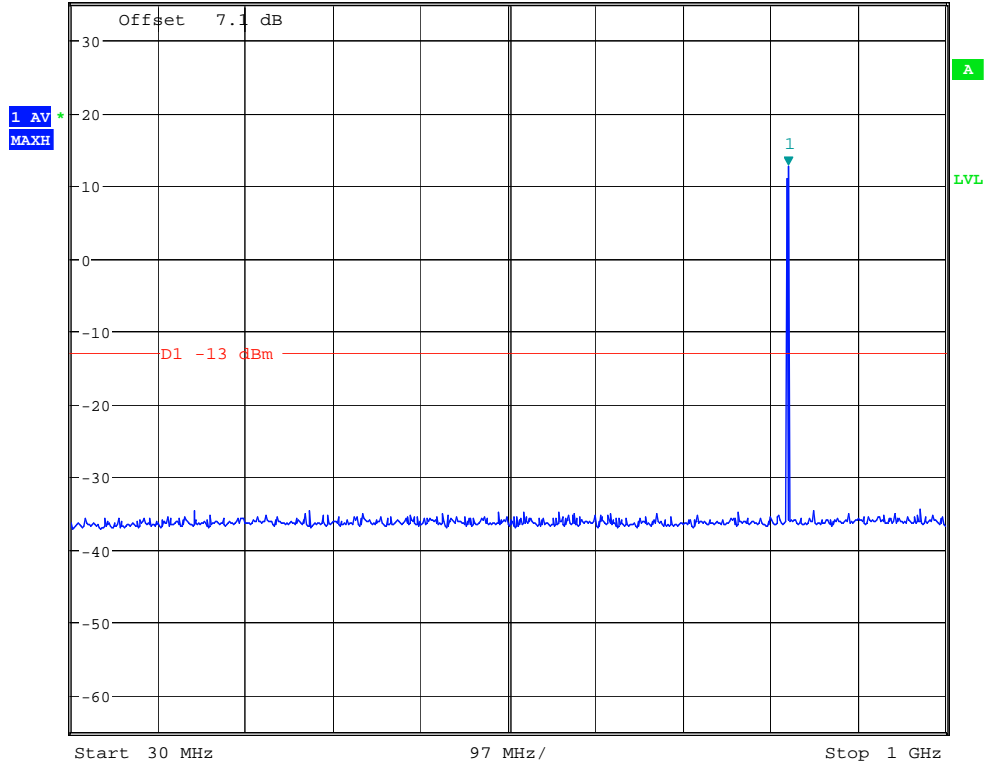
*RBW 10 kHz Marker 1 [T1]
 *VBW 30 kHz -32.64 dBm
 Ref 35 dBm Att 55 dB SWT 300 ms 150.000000000 kHz



Date: 25.NOV.2010 07:49:13



*RBW 100 kHz Marker 1 [T1]
 *VBW 300 kHz 12.64 dBm
 Ref 35 dBm Att 55 dB SWT 100 ms 825.897435897 MHz

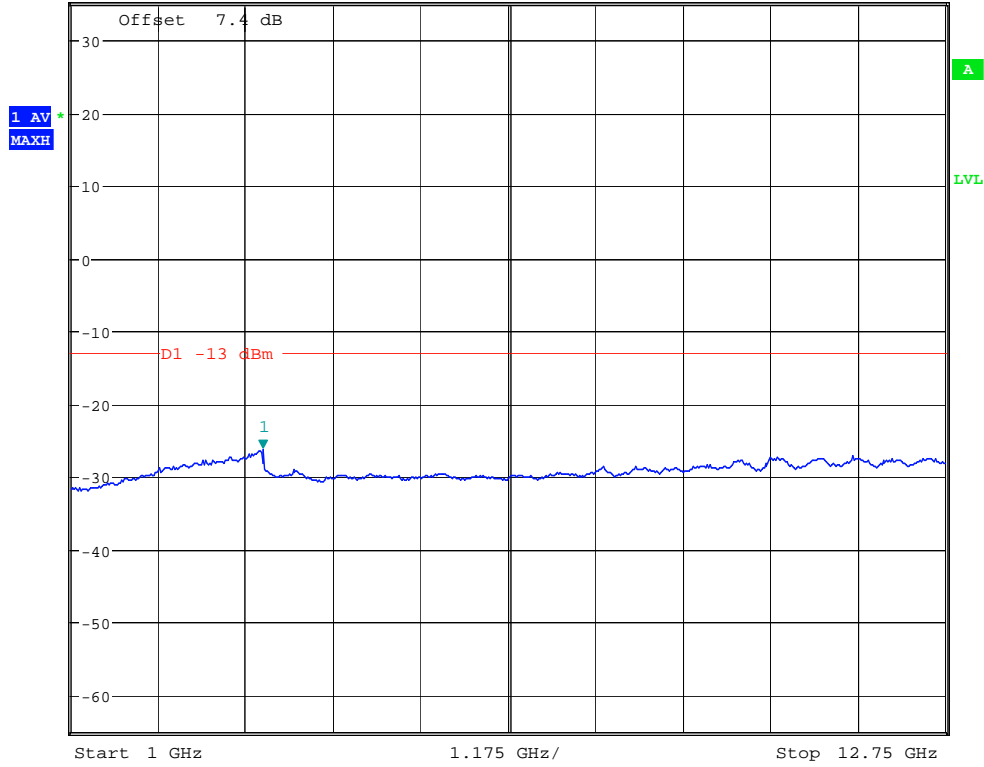


Date: 25.NOV.2010 07:49:58



Ref 35 dBm Att 55 dB SWT 70 ms

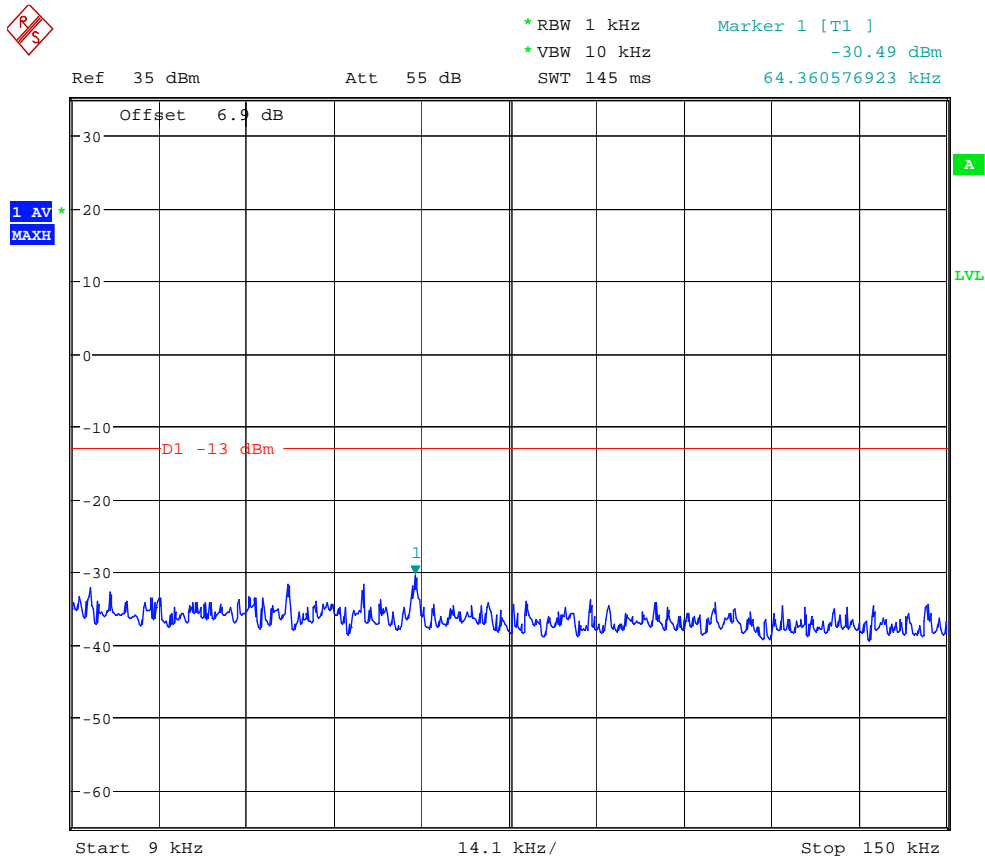
*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -26.26 dBm
3.579727564 GHz



Date: 25.NOV.2010 07:50:43



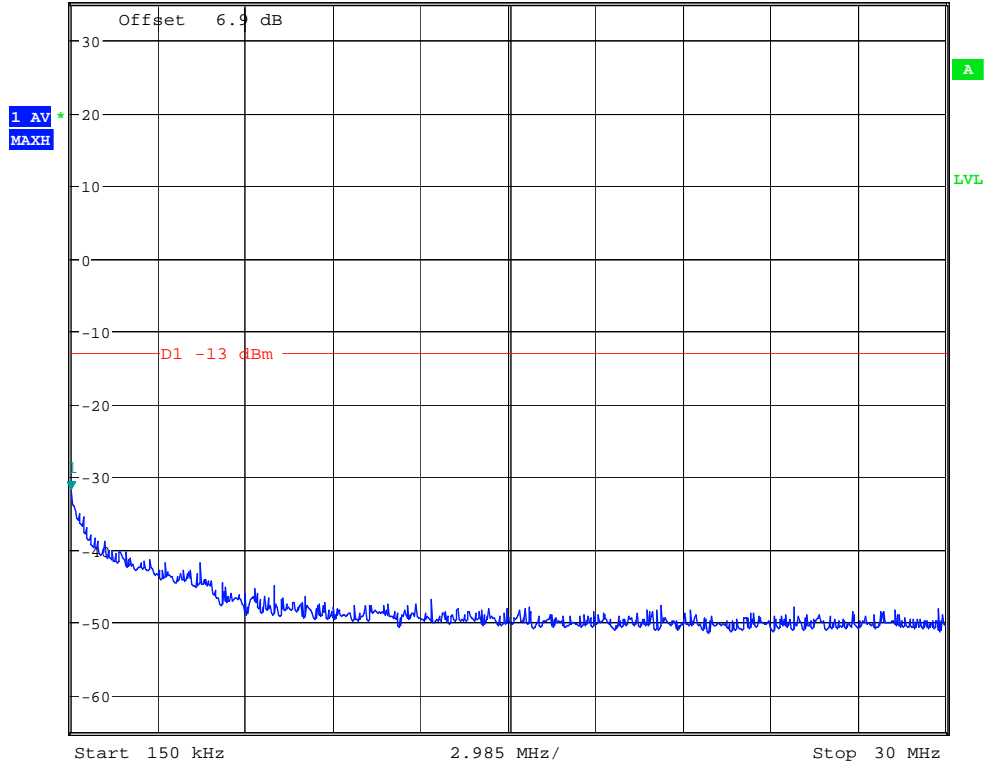
Channel 192



Date: 25.NOV.2010 07:48:44



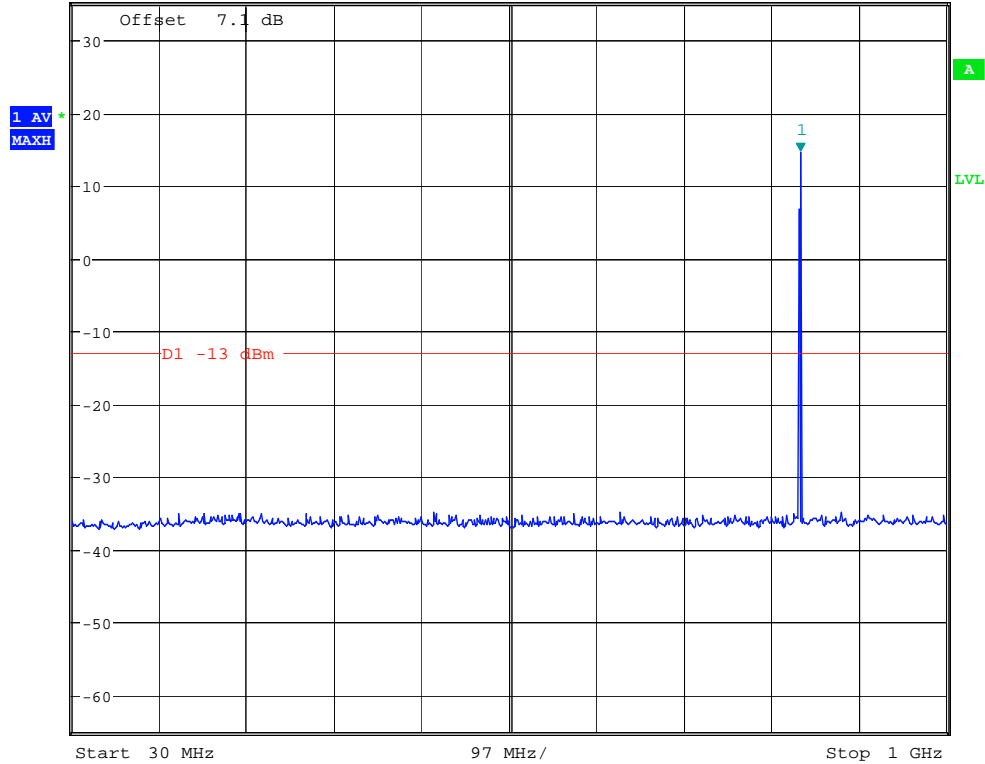
Ref 35 dBm Att 55 dB SWT 300 ms 150.000000000 kHz
*RBW 10 kHz Marker 1 [T1]
*VBW 30 kHz -32.01 dBm



Date: 25.NOV.2010 07:49:28



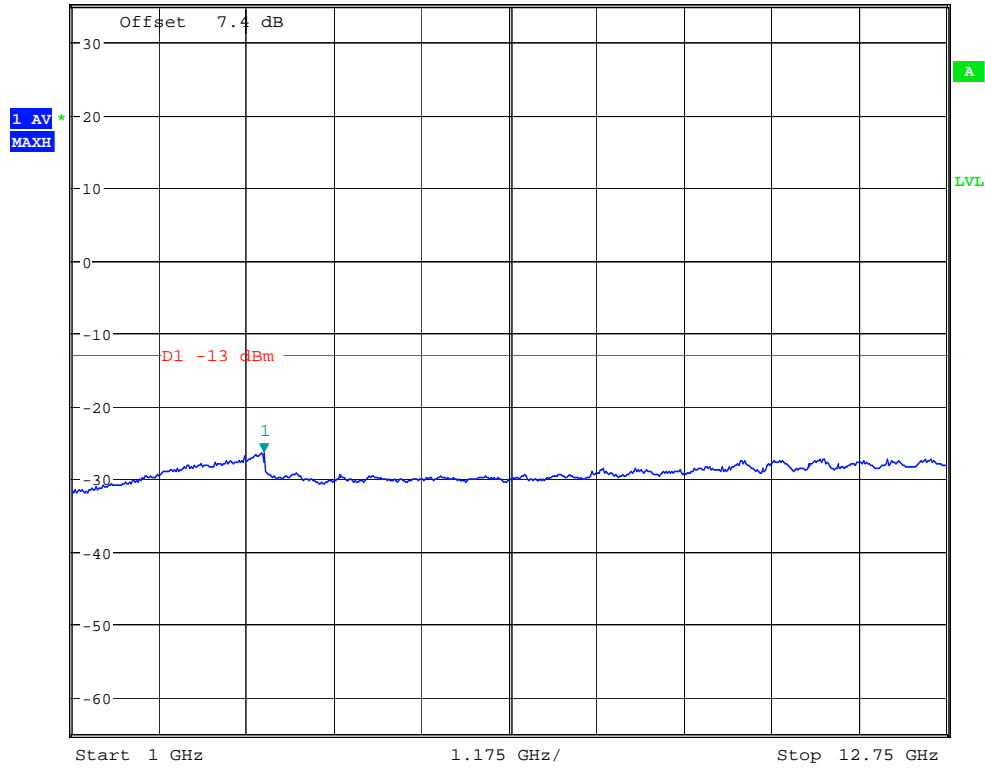
*RBW 100 kHz Marker 1 [T1]
 *VBW 300 kHz 14.56 dBm
 Ref 35 dBm Att 55 dB SWT 100 ms 838.333333333 MHz



Date: 25.NOV.2010 07:50:13



Ref 35 dBm Att 55 dB SWT 70 ms
*RBW 1 MHz Marker 1 [T1] -26.40 dBm
*VBW 3 MHz 3.579727564 GHz



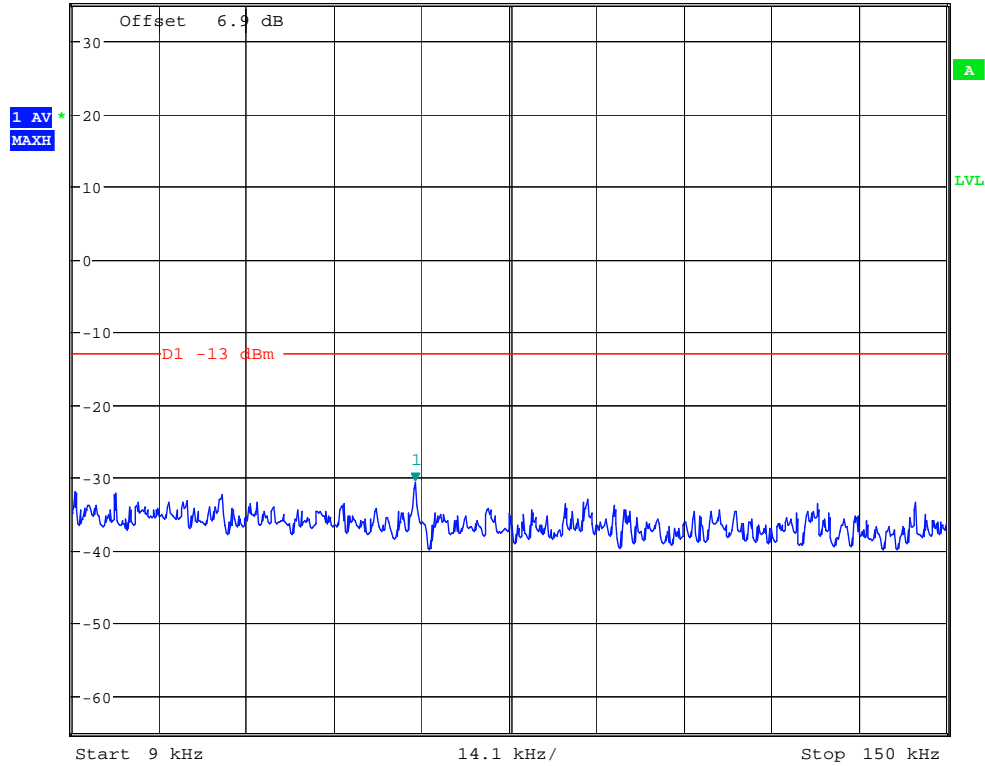
Date: 25.NOV.2010 07:50:57



Channel 251



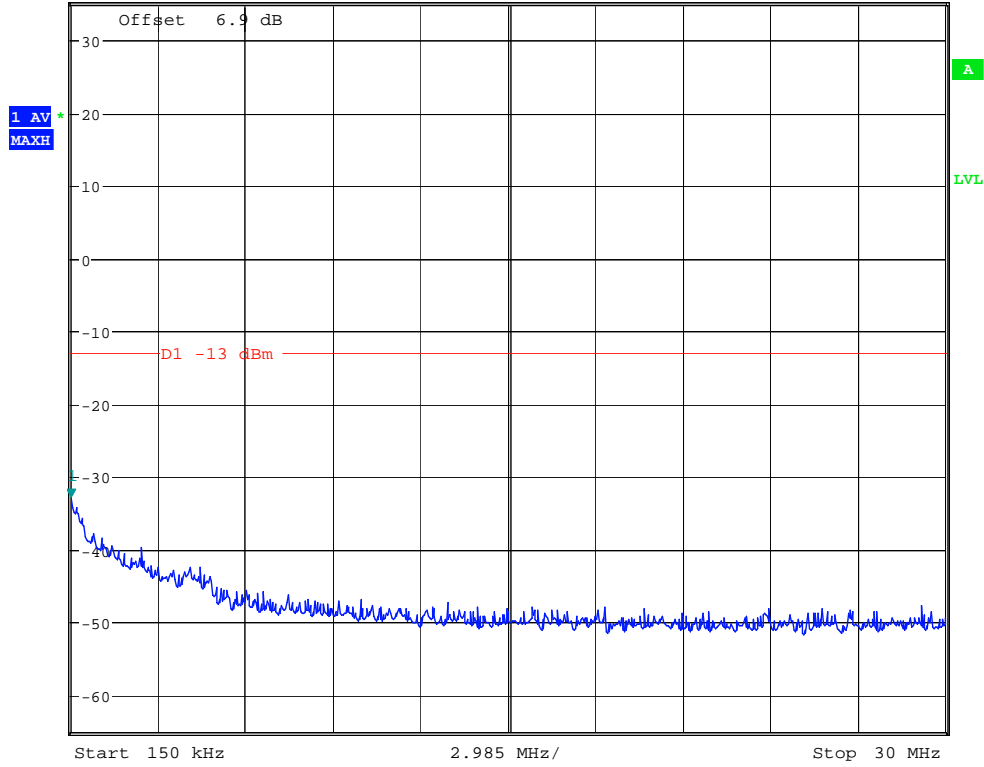
* RBW 1 kHz
 * VBW 10 kHz
 Ref 35 dBm Att 55 dB SWT 145 ms
 Marker 1 [T1] -30.57 dBm
 64.360576923 kHz



Date: 25.NOV.2010 07:48:58



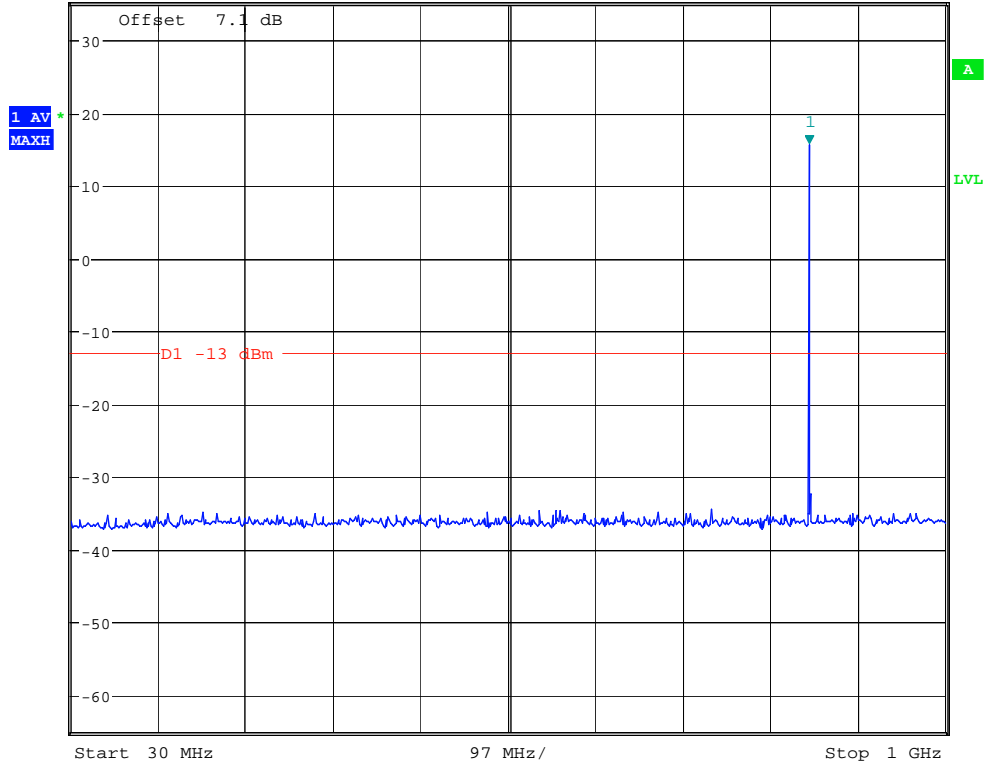
*RBW 10 kHz Marker 1 [T1]
 *VBW 30 kHz -32.95 dBm
 Ref 35 dBm Att 55 dB SWT 300 ms 150.000000000 kHz



Date: 25.NOV.2010 07:49:43



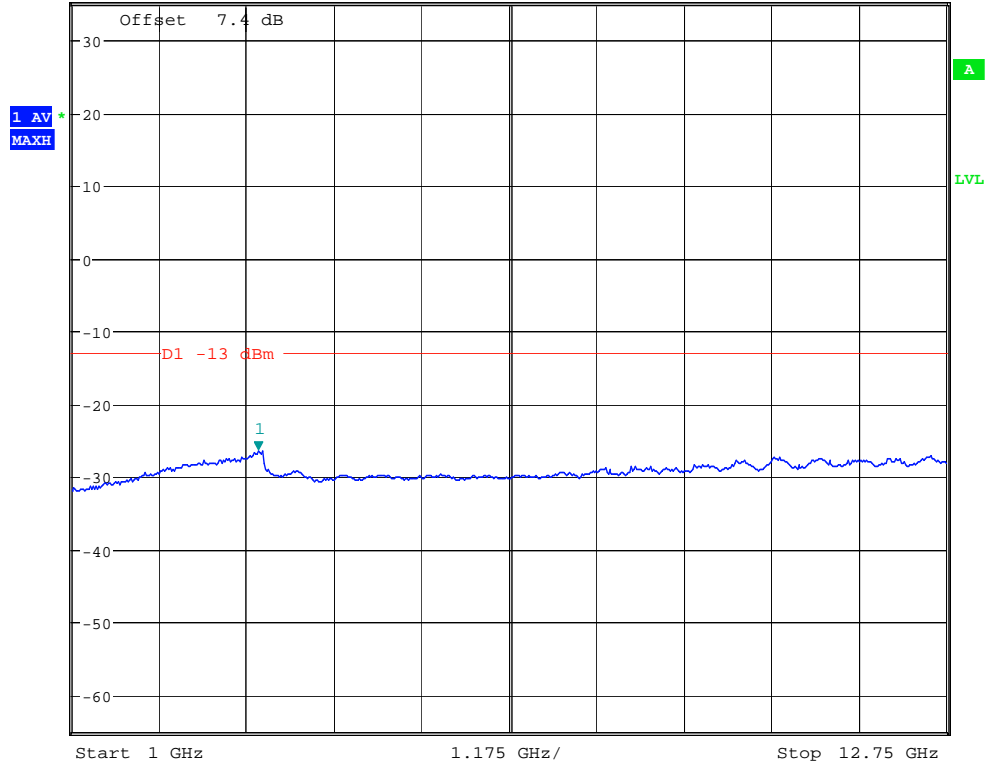
Ref 35 dBm Att 55 dB SWT 100 ms
*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 15.48 dBm
849.214743590 MHz



Date: 25.NOV.2010 07:50:27



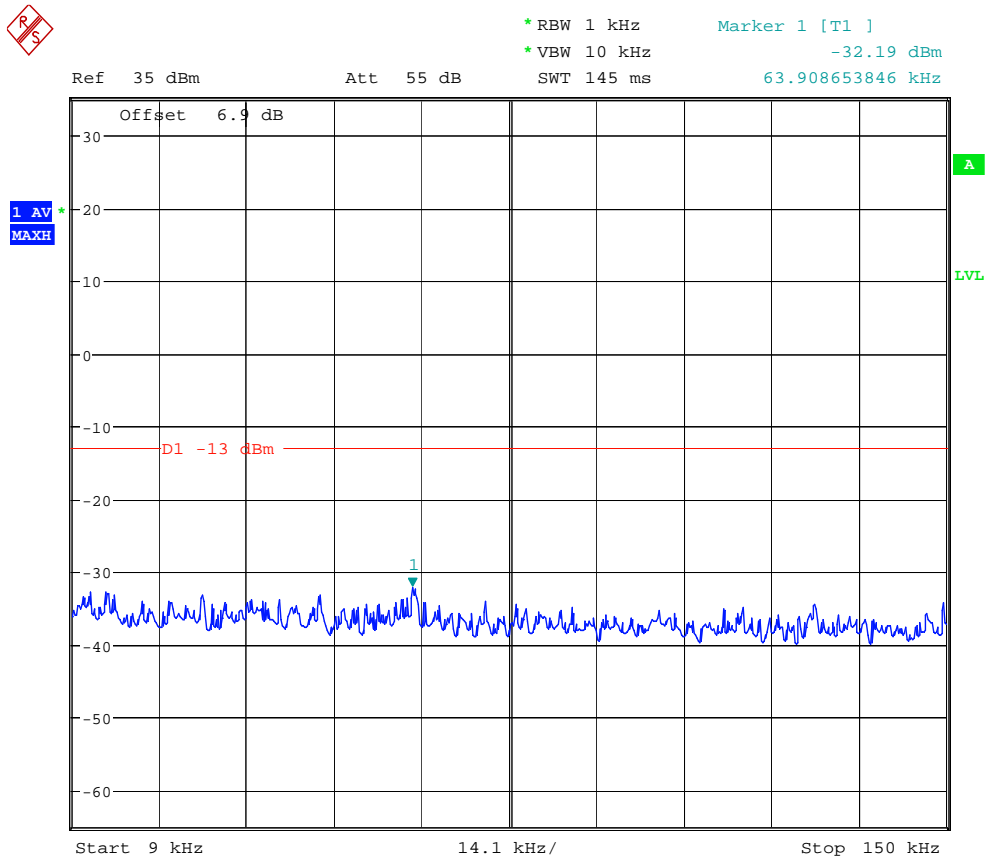
*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz -26.45 dBm
 Ref 35 dBm Att 55 dB SWT 70 ms 3.504407051 GHz



Date: 25.NOV.2010 07:51:12



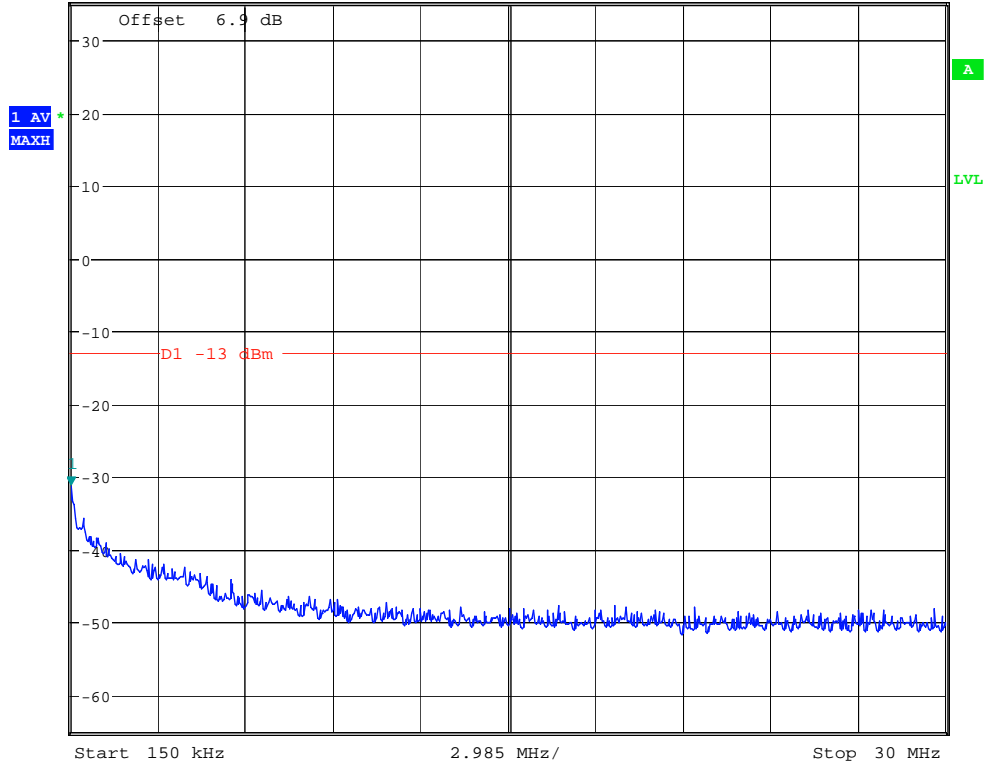
TM2:EDGE Channel 128



Date: 25.NOV.2010 08:09:10



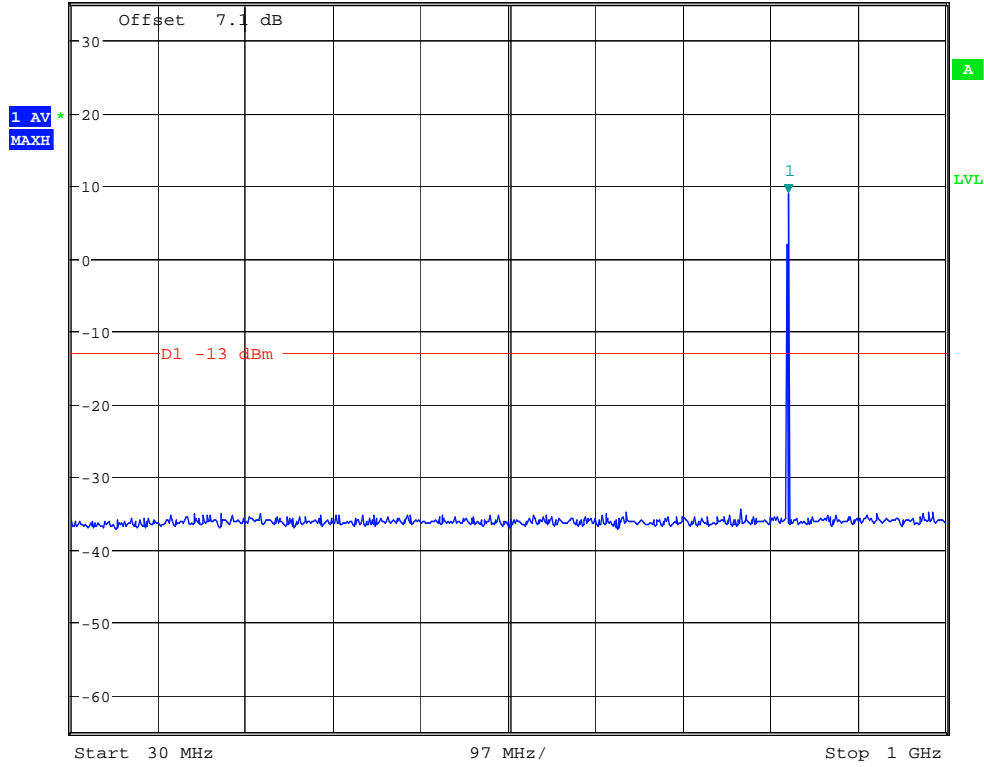
*RBW 10 kHz Marker 1 [T1]
 *VBW 30 kHz -31.36 dBm
 Ref 35 dBm Att 55 dB SWT 300 ms 150.00000000 kHz



Date: 25.NOV.2010 08:09:54



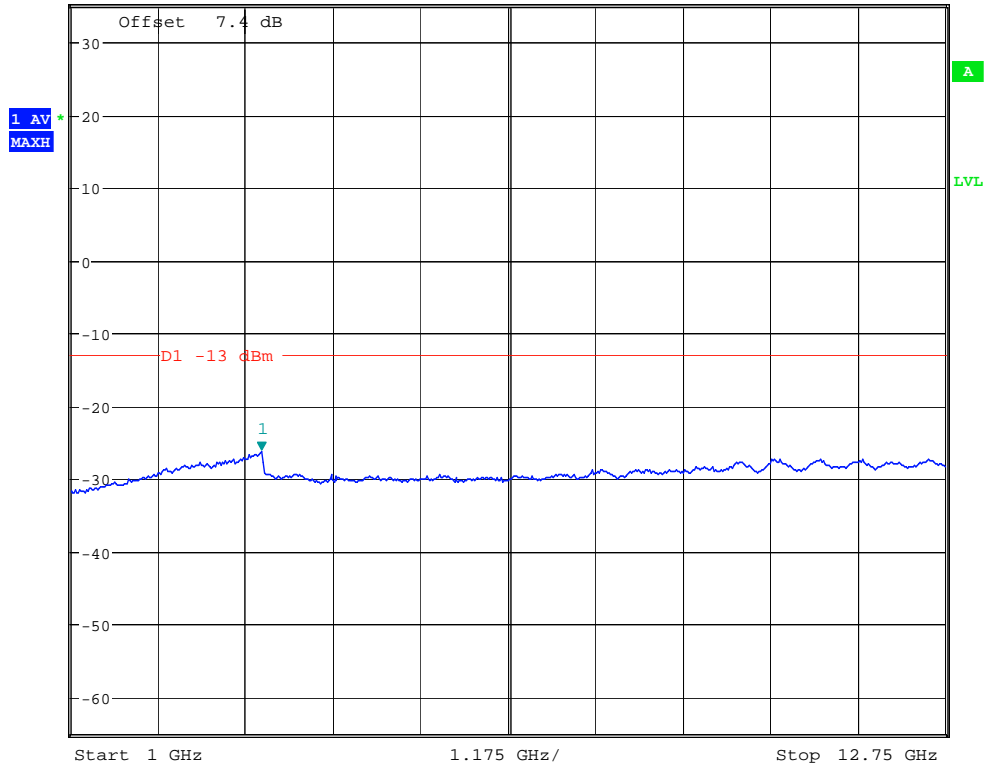
Ref 35 dBm Att 55 dB SWT 100 ms
*RBW 100 kHz Marker 1 [T1] 8.80 dBm
*VBW 300 kHz 825.897435897 MHz



Date: 25.NOV.2010 08:10:39



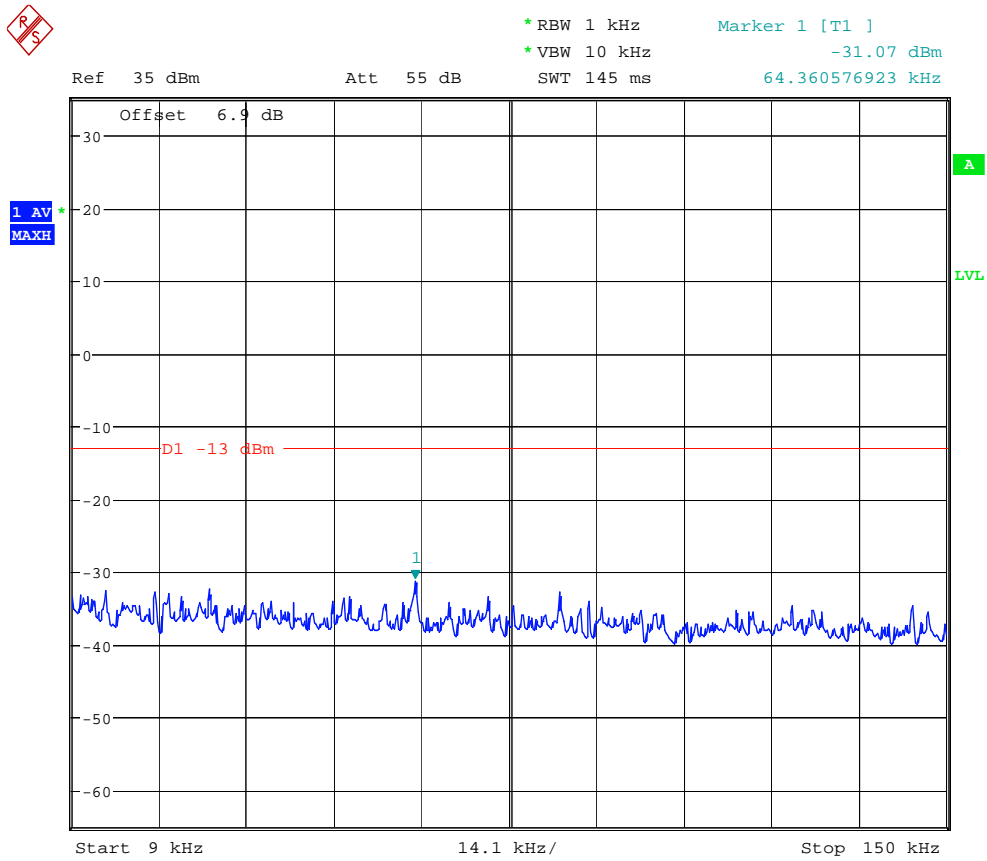
Ref 35 dBm Att 55 dB SWT 70 ms
*RBW 1 MHz Marker 1 [T1] -26.23 dBm
*VBW 3 MHz 3.560897436 GHz



Date: 25.NOV.2010 08:11:24



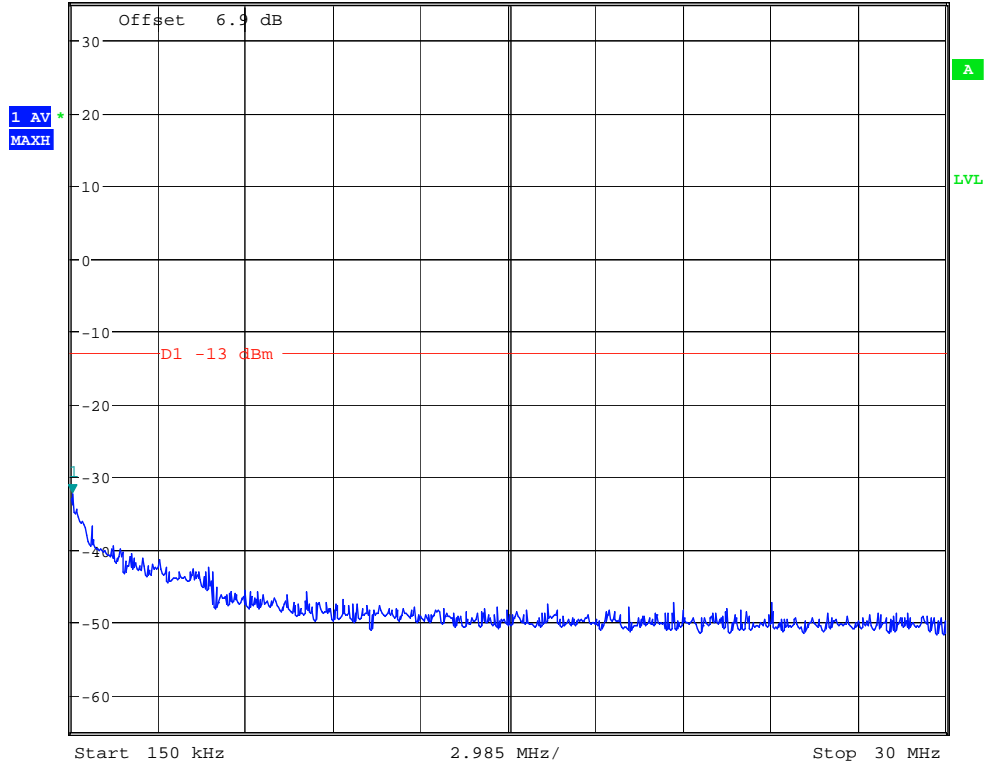
Channel 192



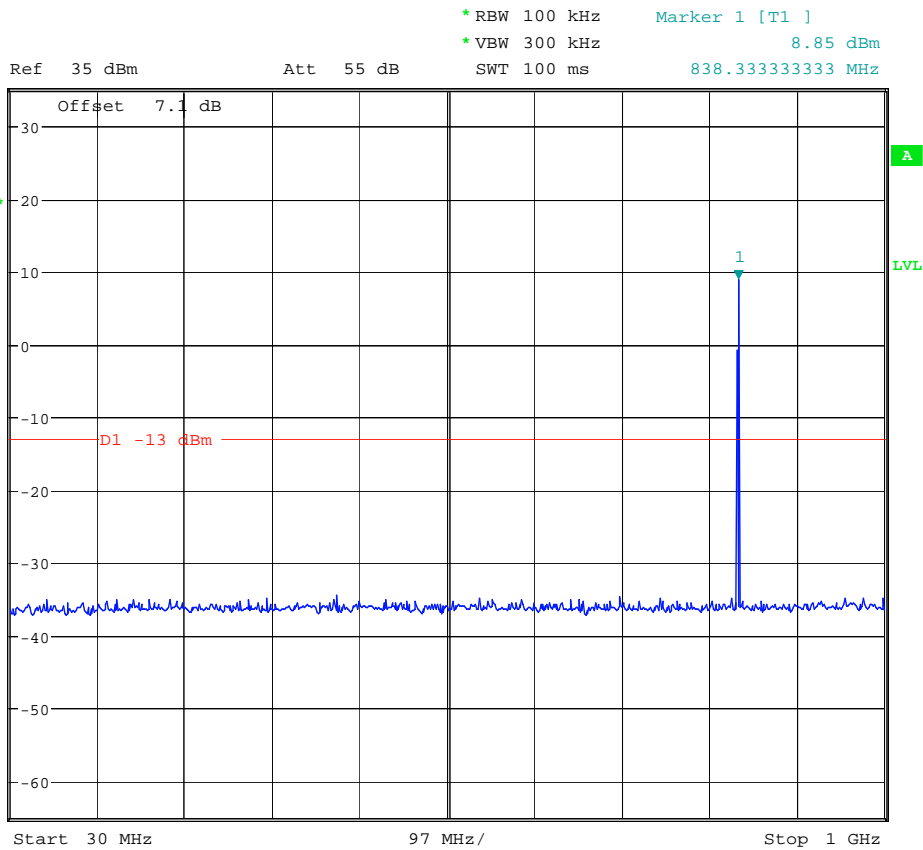
Date: 25.NOV.2010 08:09:25



*RBW 10 kHz Marker 1 [T1]
 *VBW 30 kHz -32.33 dBm
 Ref 35 dBm Att 55 dB SWT 300 ms 197.836538462 kHz



Date: 25.NOV.2010 08:10:09

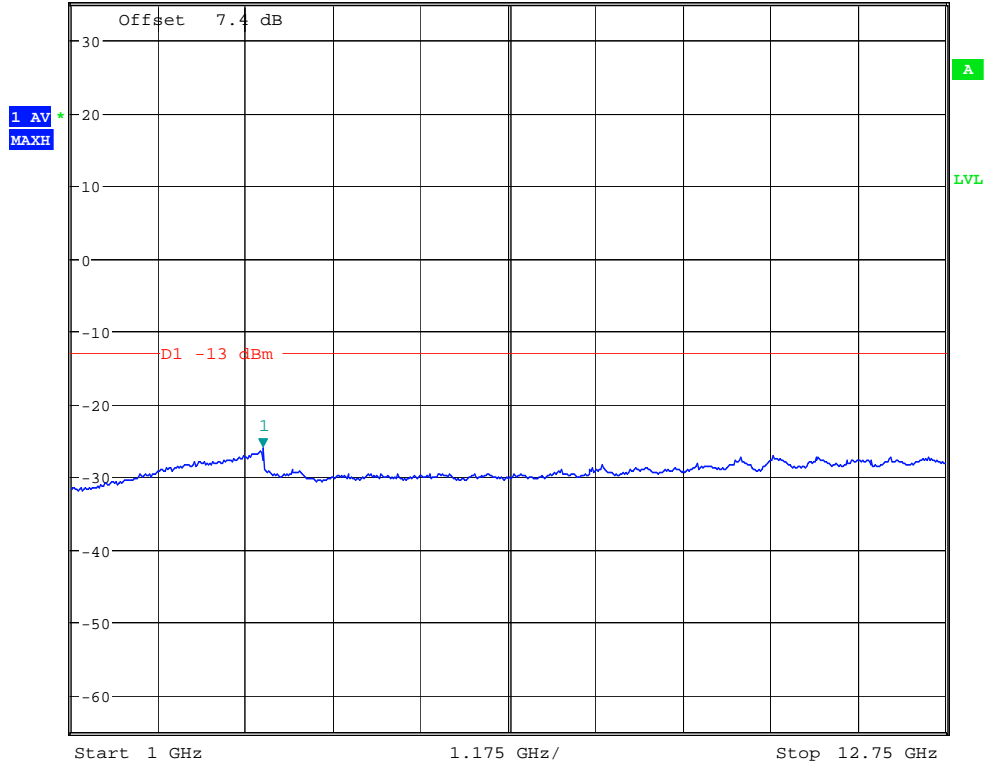


Date: 25.NOV.2010 08:10:54



Ref 35 dBm Att 55 dB SWT 70 ms

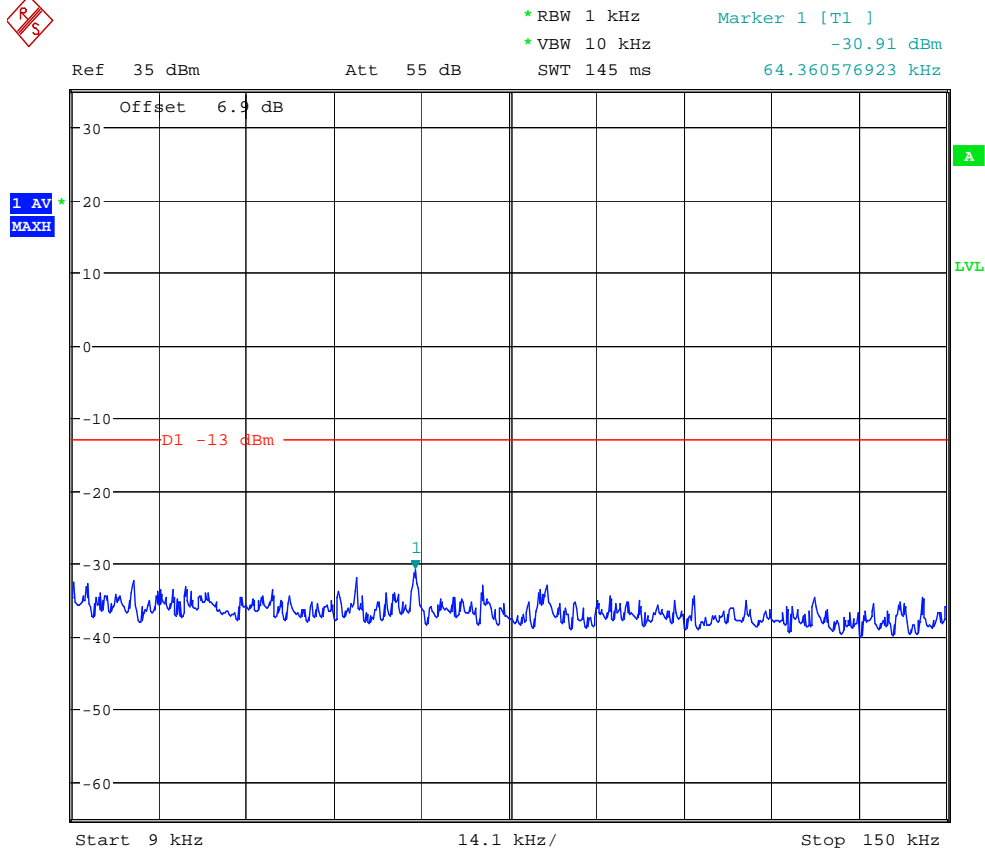
*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -26.12 dBm
3.579727564 GHz



Date: 25.NOV.2010 08:11:38



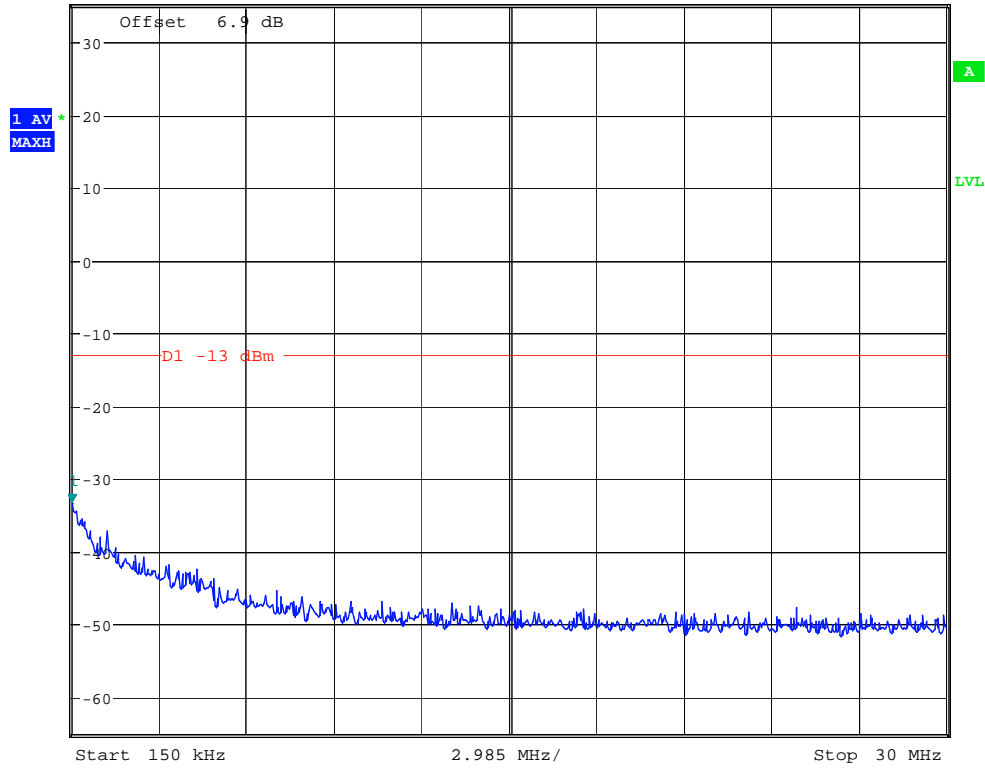
Channel 251



Date: 25.NOV.2010 08:09:39



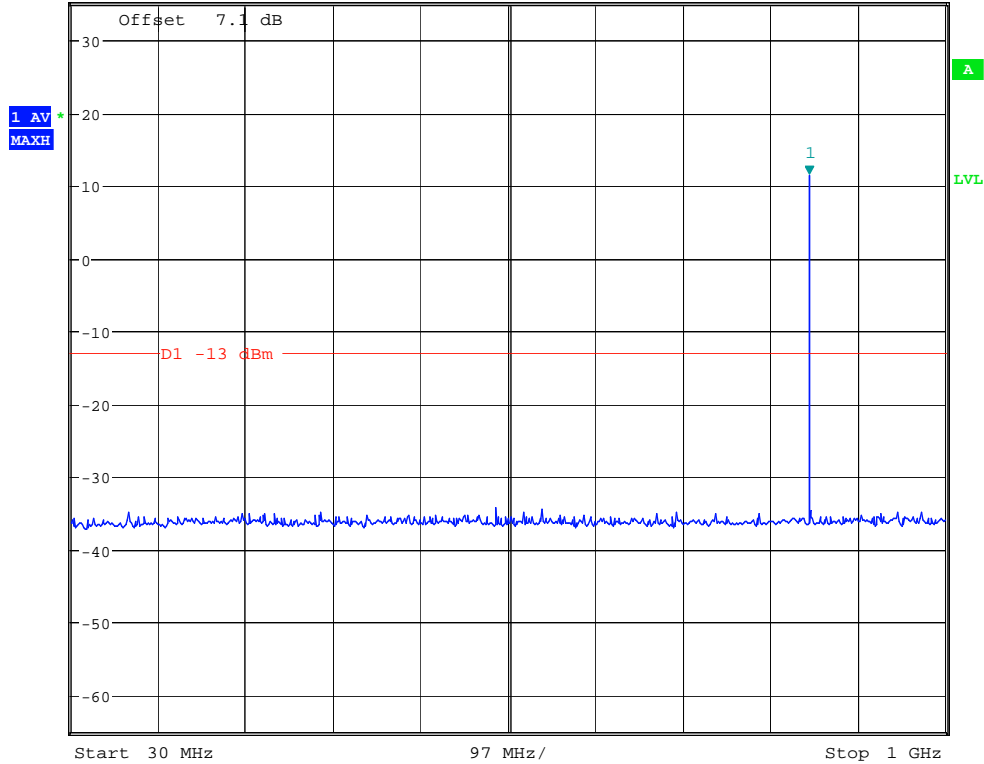
Ref 35 dBm Att 55 dB SWT 300 ms
*RBW 10 kHz Marker 1 [T1] -33.48 dBm
*VBW 30 kHz 150.00000000 kHz



Date: 25.NOV.2010 08:10:24



*RBW 100 kHz Marker 1 [T1]
 *VBW 300 kHz 11.37 dBm
 Ref 35 dBm Att 55 dB SWT 100 ms 849.214743590 MHz

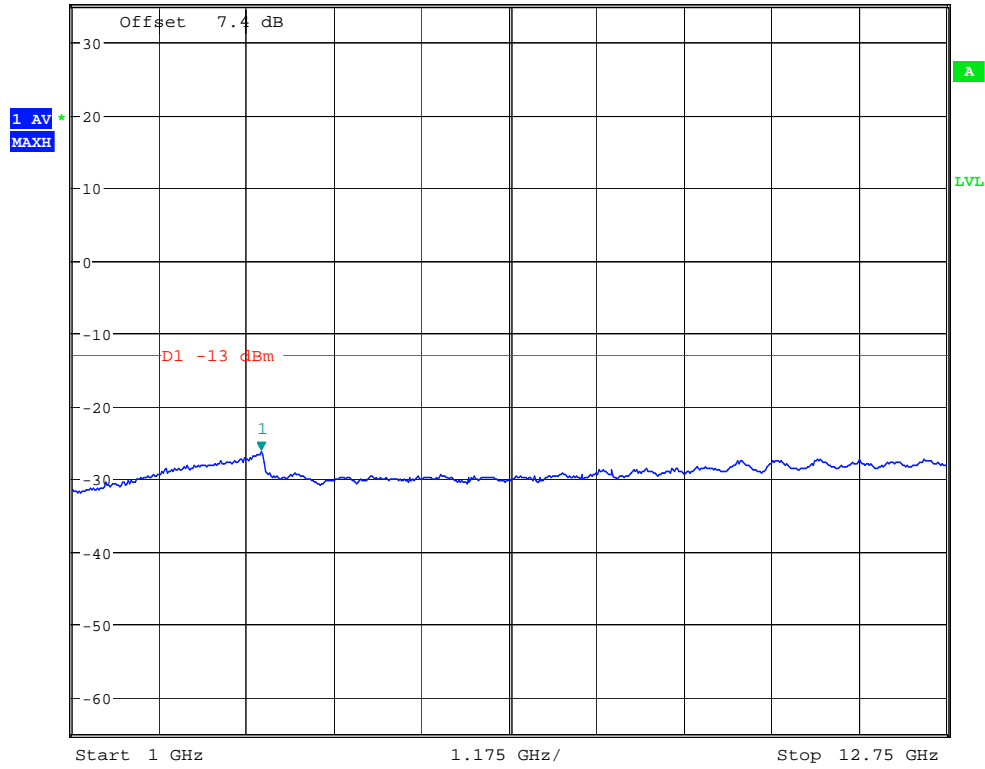


Date: 25.NOV.2010 08:11:08



Ref 35 dBm Att 55 dB SWT 70 ms

*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -26.32 dBm
3.542067308 GHz



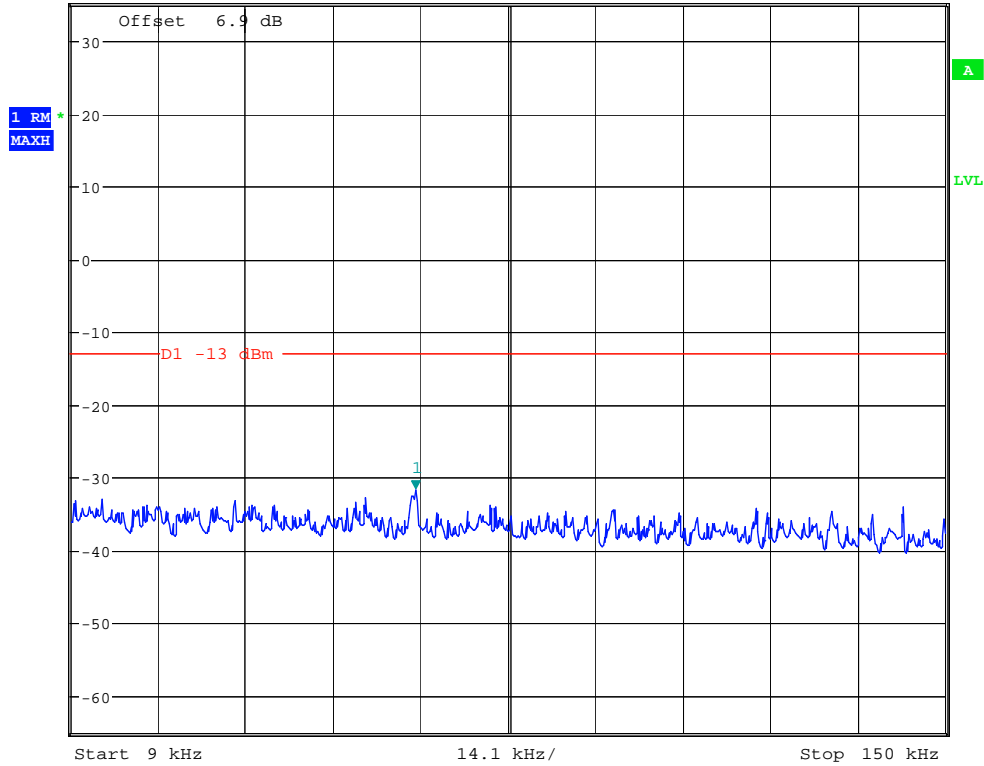
Date: 25.NOV.2010 08:11:53



TM3: WCDMA Channel 4132



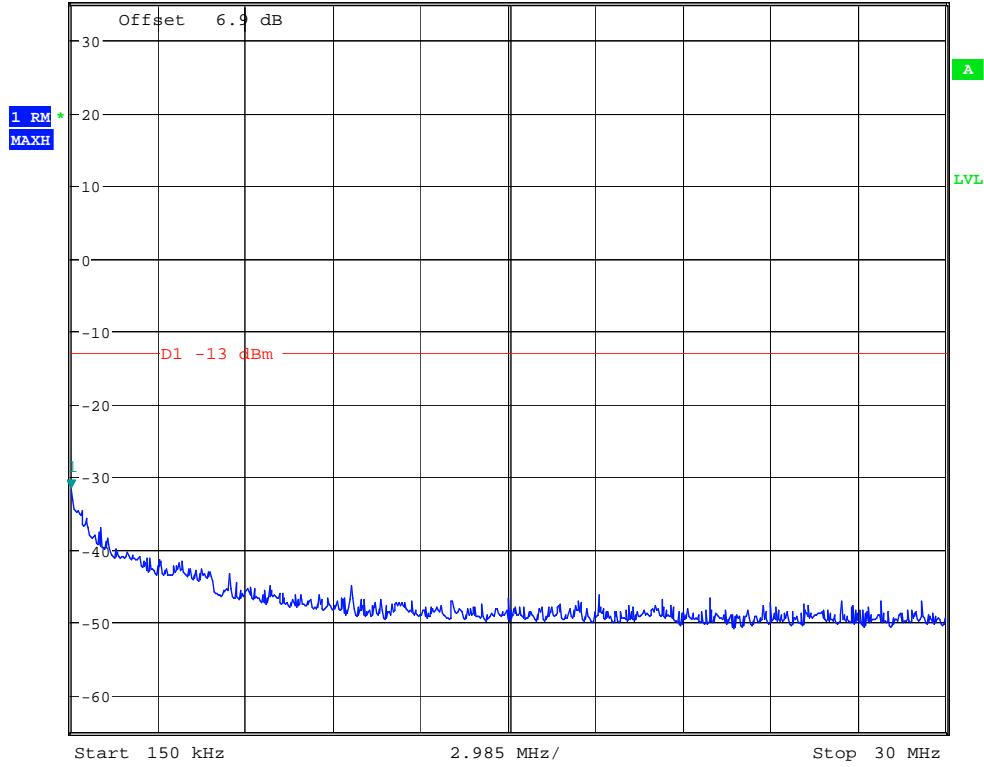
Ref 35 dBm Att 55 dB RBW 1 kHz Marker 1 [T1] -31.80 dBm
 * VBW 10 kHz
 SWT 145 ms 64.586538462 kHz



Date: 25.NOV.2010 08:14:19



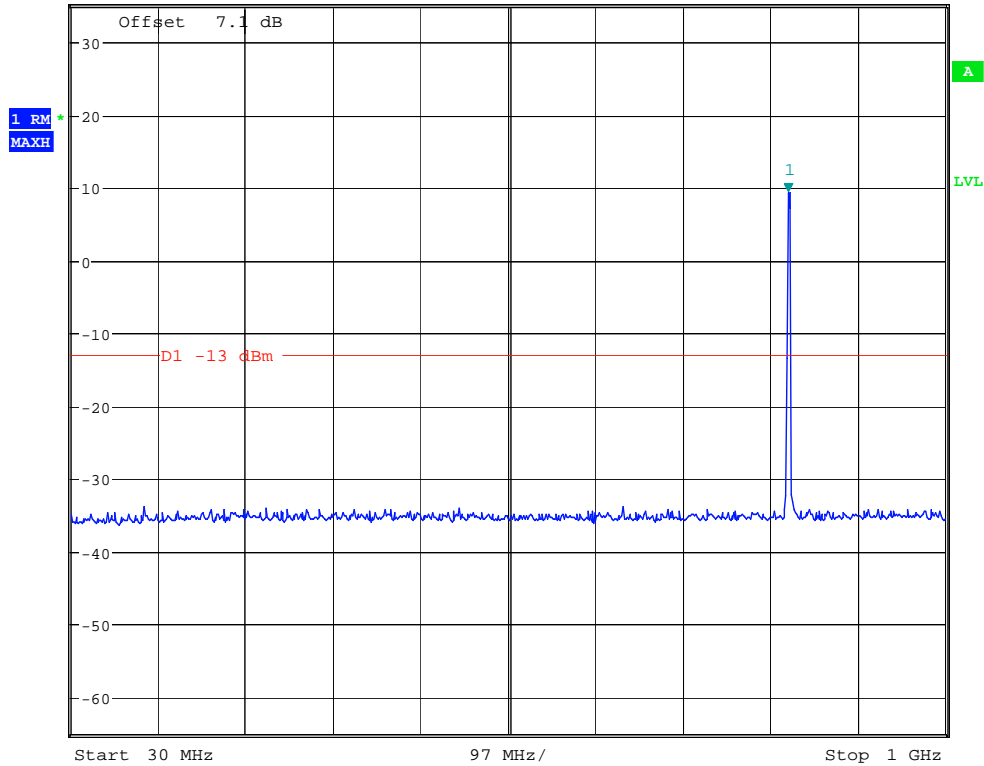
*RBW 10 kHz Marker 1 [T1]
 *VBW 30 kHz -31.74 dBm
 Ref 35 dBm Att 55 dB SWT 300 ms 150.000000000 kHz



Date: 25.NOV.2010 08:15:04



Ref 35 dBm Att 55 dB SWT 100 ms
*RBW 100 kHz Marker 1 [T1] 9.34 dBm
*VBW 300 kHz 825.897435897 MHz

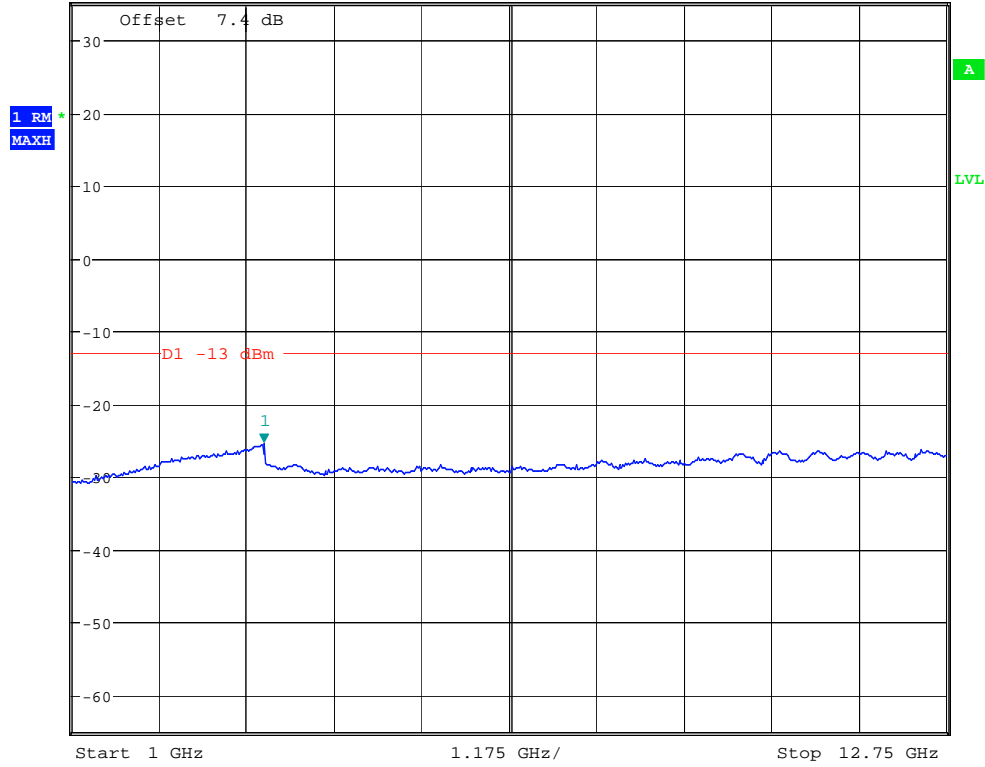


Date: 25.NOV.2010 08:15:48



*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz -25.48 dBm
 3.579727564 GHz

Ref 35 dBm Att 55 dB SWT 70 ms



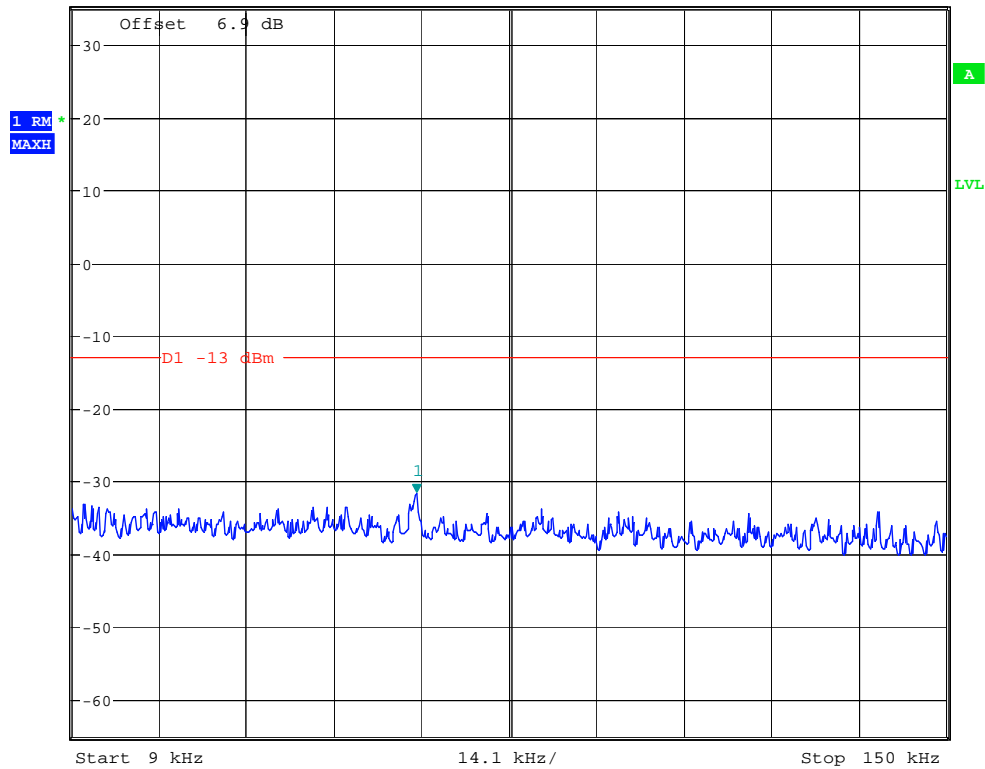
Date: 25.NOV.2010 08:16:33



Channel 4182



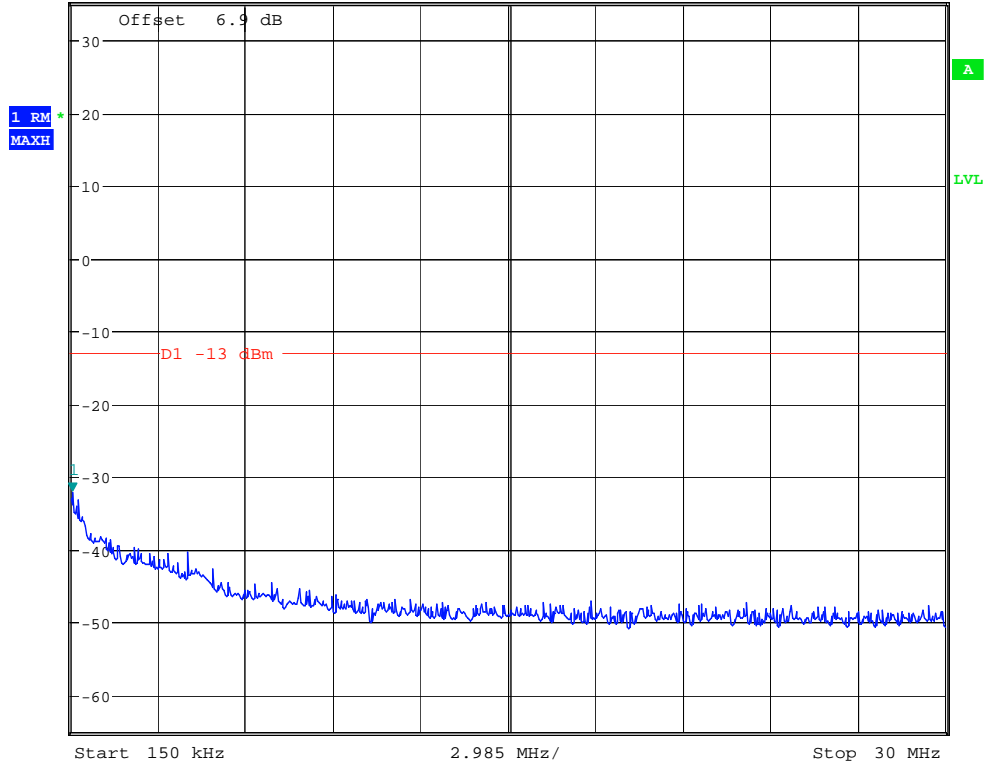
Ref 35 dBm Att 55 dB *RBW 1 kHz Marker 1 [T1] -31.60 dBm
*VBW 10 kHz SWT 145 ms 64.586538462 kHz



Date: 25.NOV.2010 08:14:34



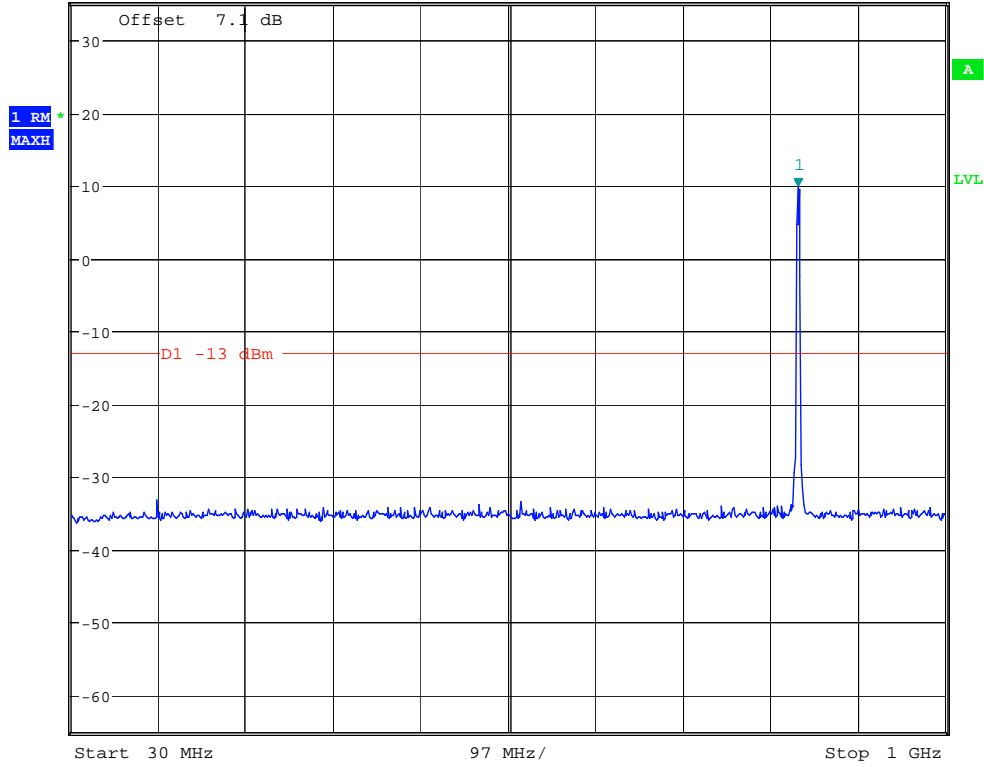
Ref 35 dBm Att 55 dB SWT 300 ms
*RBW 10 kHz Marker 1 [T1] -32.22 dBm
*VBW 30 kHz 197.836538462 kHz



Date: 25.NOV.2010 08:15:19



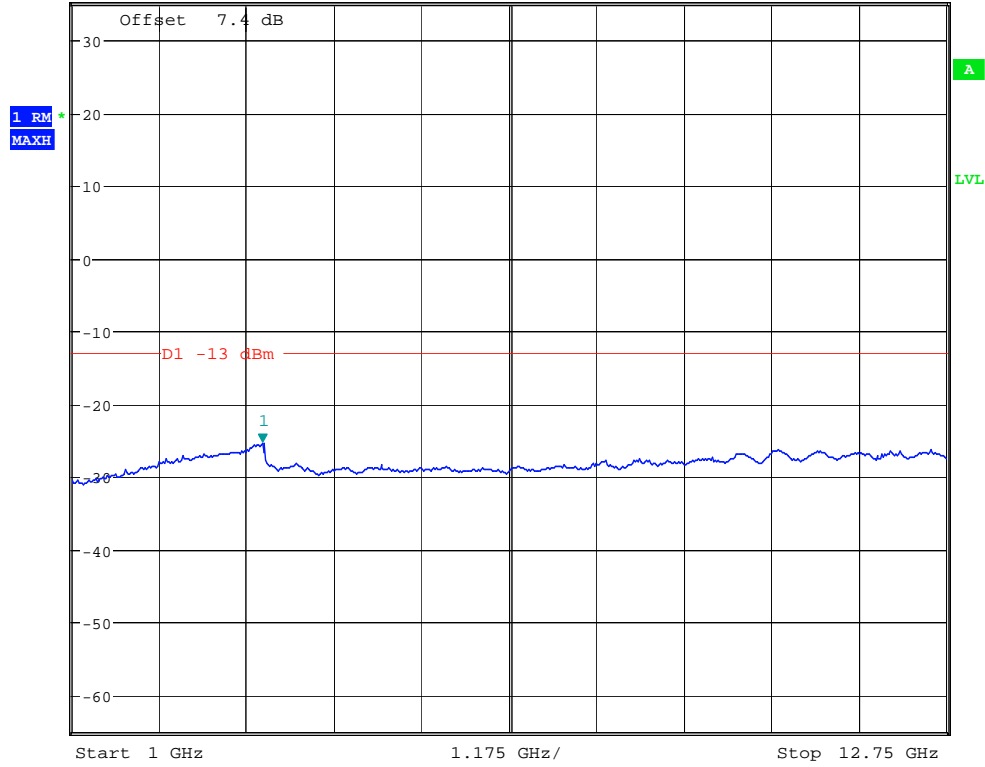
*RBW 100 kHz Marker 1 [T1]
 *VBW 300 kHz 9.58 dBm
 Ref 35 dBm Att 55 dB SWT 100 ms 836.778846154 MHz



Date: 25.NOV.2010 08:16:03



*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz -25.36 dBm
 Ref 35 dBm Att 55 dB SWT 70 ms 3.560897436 GHz



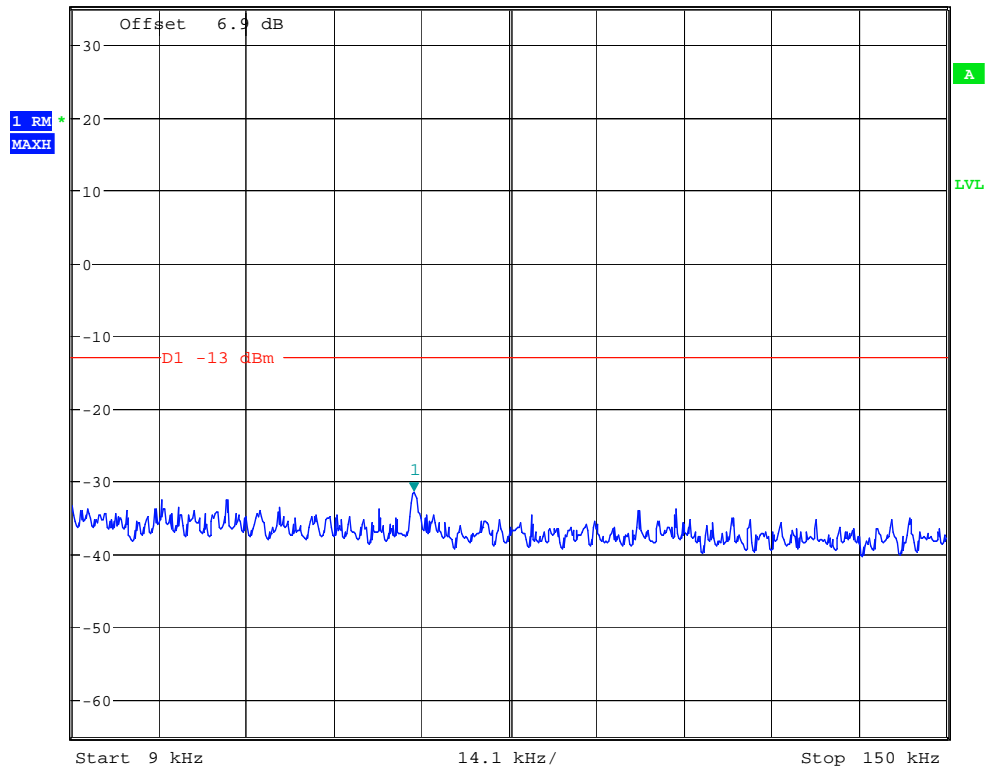
Date: 25.NOV.2010 08:16:48



Channel 4233



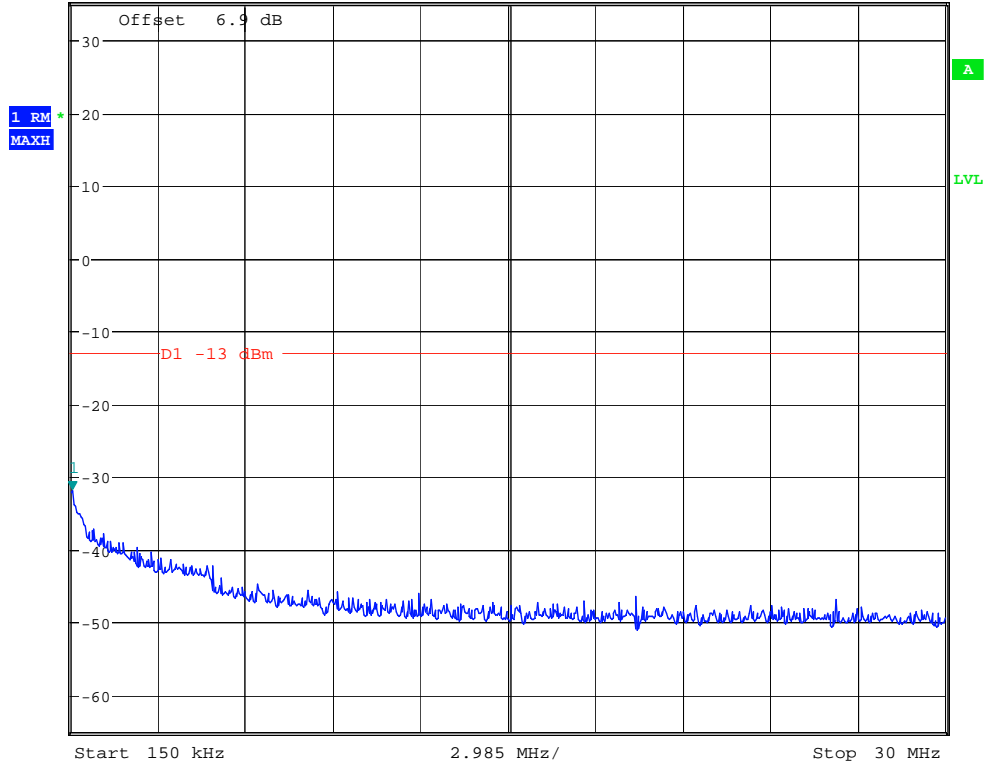
*RBW 1 kHz Marker 1 [T1]
 *VBW 10 kHz -31.44 dBm
 Ref 35 dBm Att 55 dB SWT 145 ms 64.134615385 kHz



Date: 25.NOV.2010 08:14:49



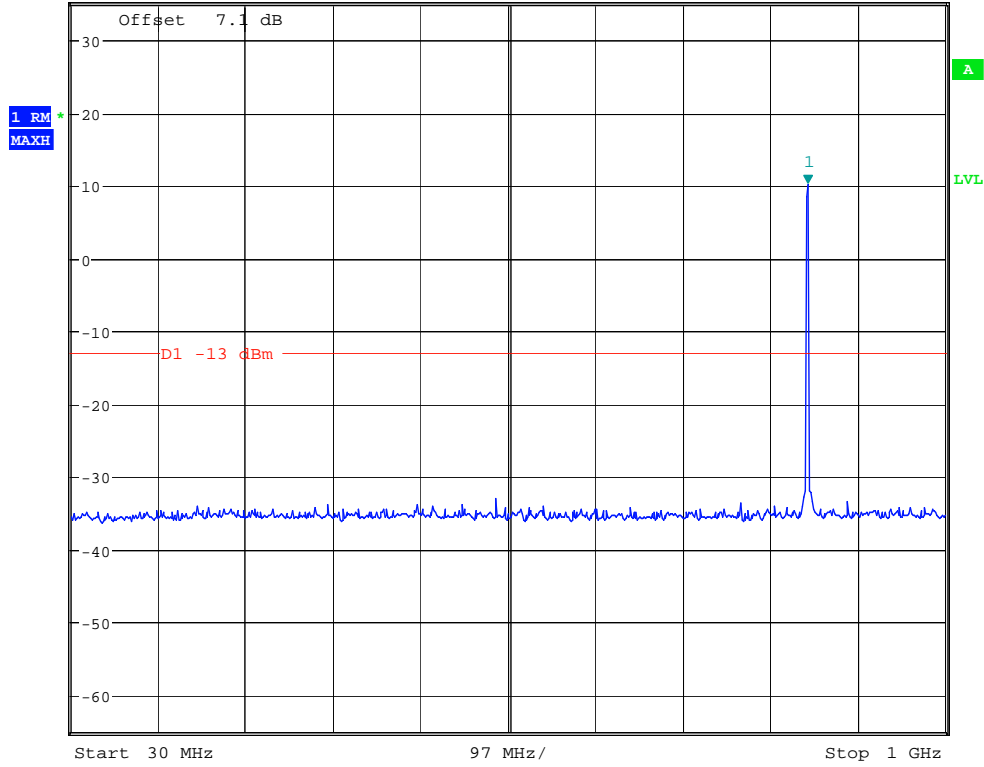
Ref 35 dBm Att 55 dB SWT 300 ms Marker 1 [T1] -31.86 dBm
*RBW 10 kHz *VBW 30 kHz 197.836538462 kHz



Date: 25.NOV.2010 08:15:33



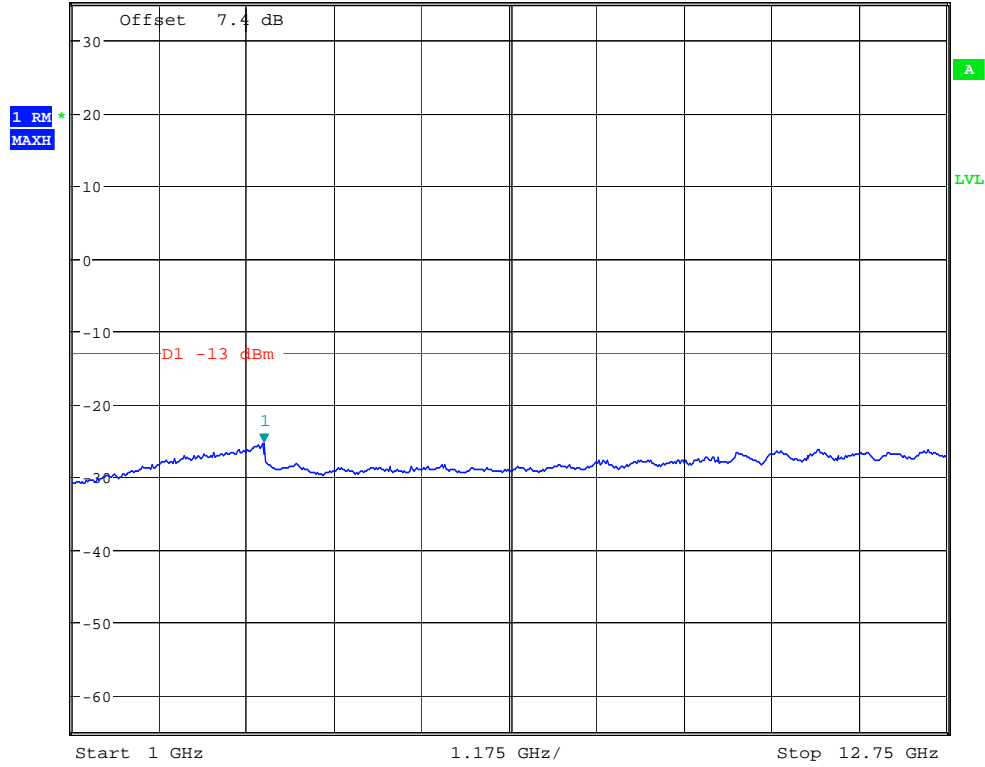
Ref 35 dBm Att 55 dB SWT 100 ms
*RBW 100 kHz Marker 1 [T1] 10.04 dBm
*VBW 300 kHz 847.660256410 MHz



Date: 25.NOV.2010 08:16:18



Ref 35 dBm Att 55 dB SWT 70 ms
*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -25.38 dBm
3.579727564 GHz



Date: 25.NOV.2010 08:17:02