Appendix E

Spurious Emission at Antenna Terminal

According to FCC Part 2.1051 & Part 22 Subpart H

Report No:
SYBH(Z-RF)007072012-2001

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Page1, Total85

TM1
Channel 1013

```
                                    * RBW  1 kHz        Marker 1 [T1 ]
                                    * VBW  10 kHz              -37.08 dBm
     Ref  35 dBm          Att  50 dB    SWT  145 ms     11.937500000 kHz
```



```
     Start  9 kHz              14.1 kHz/              Stop  150 kHz
```

Date: 11.JUL.2012 12:26:53

Date: 11.JUL.2012 12:27:19

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*RBW 100 kHz	Marker 1 [T1]
*VBW 300 kHz	22.72 dBm
Ref 35 dBm Att 50 dB SWT 100 ms	825.897435897 MHz

Offset 12.9 dB

1 PK
MAXH

D1 -13 dBm

A

LVL

3DB

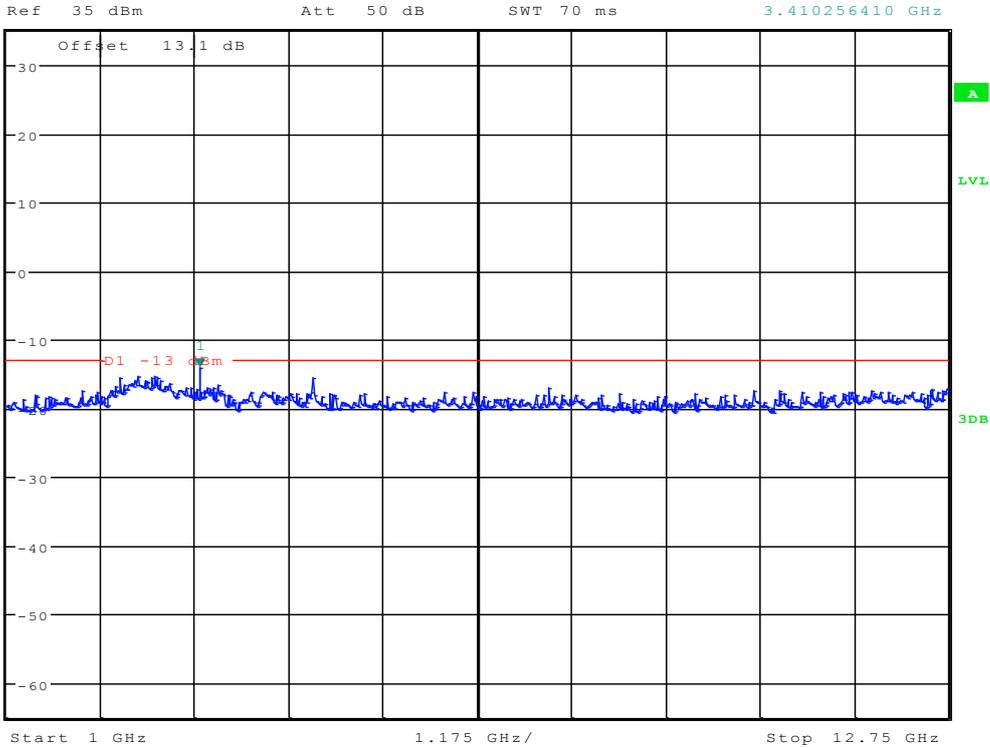Start 30 MHz   97 MHz/   Stop 1 GHz
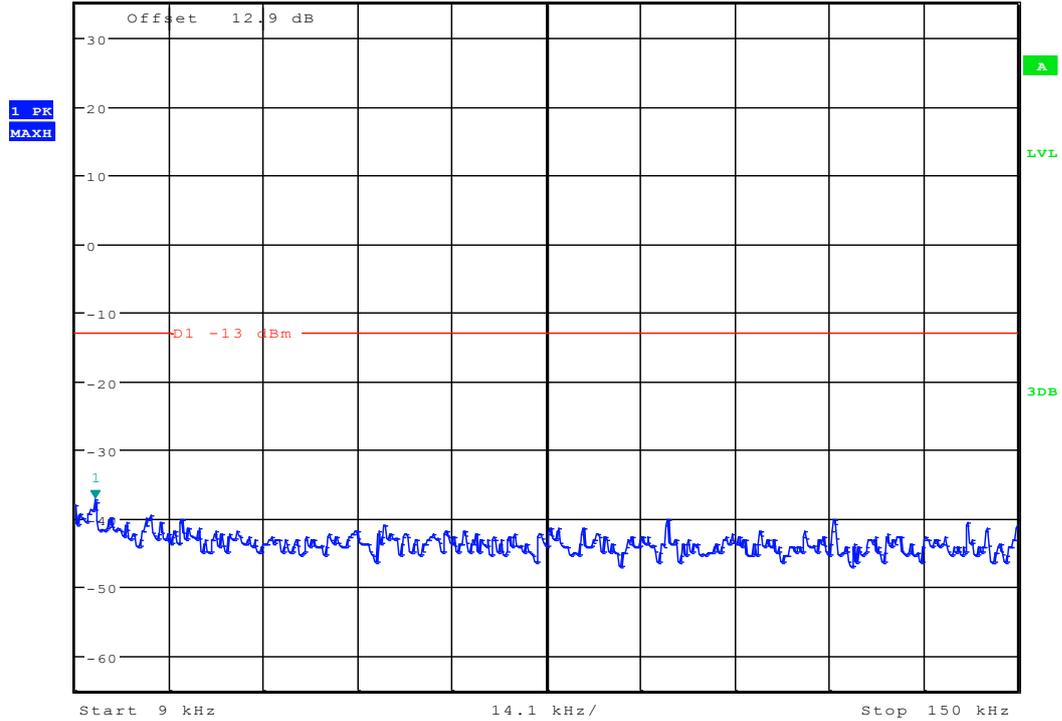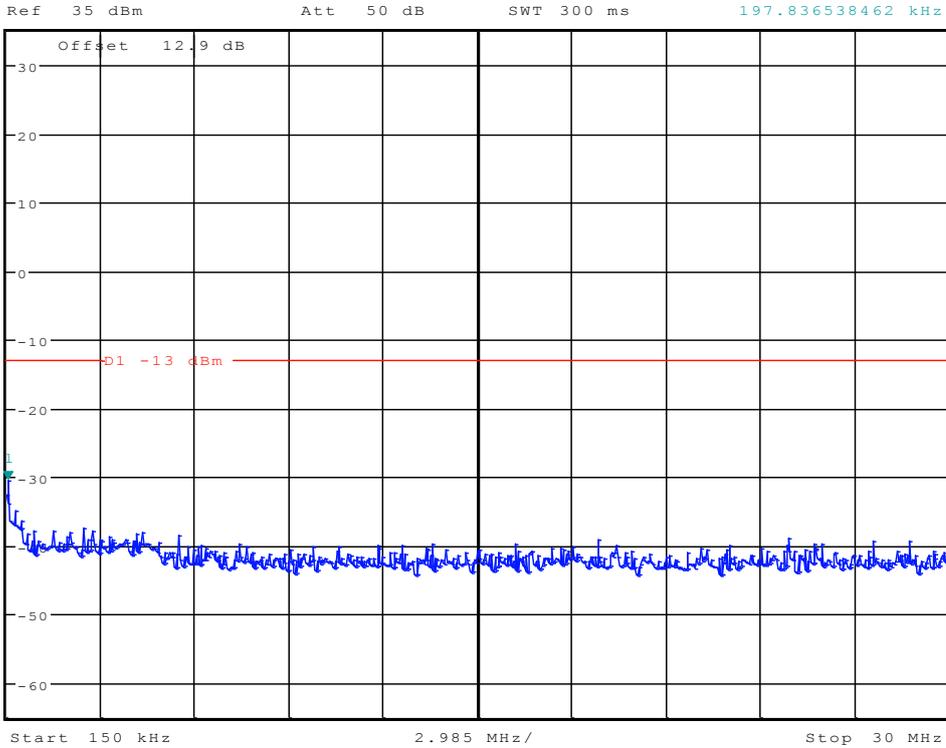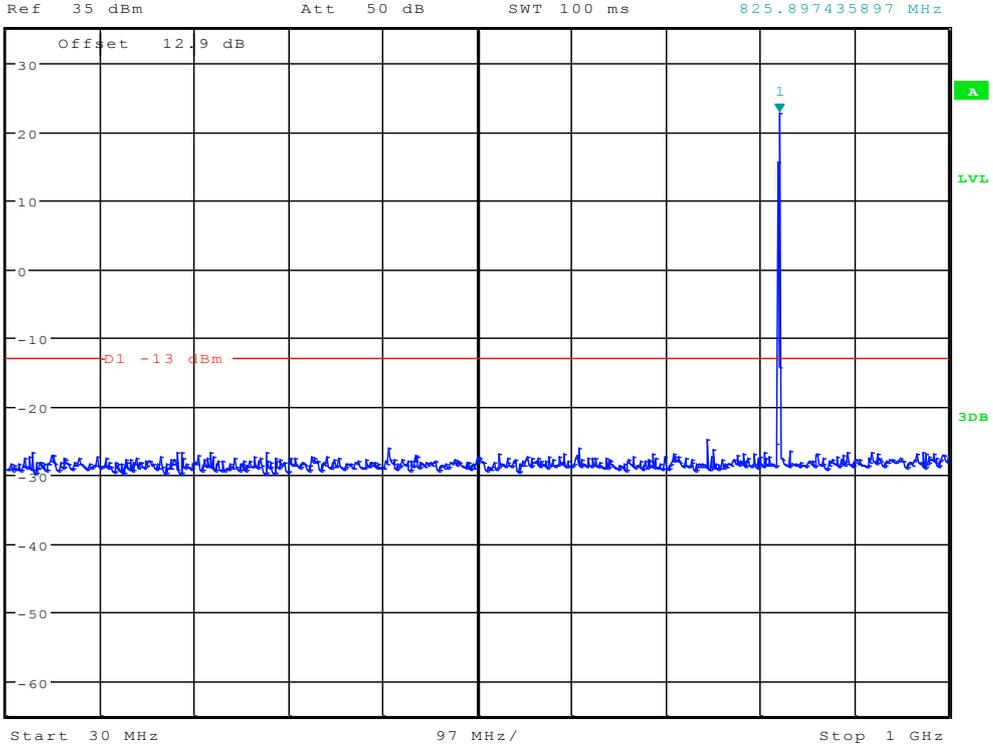
Date: 11.JUL.2012 12:27:44

```
                                            * RBW  1 MHz          Marker 1 [T1 ]
                                            * VBW  3 MHz                  -14.08 dBm
         Ref   35 dBm          Att   50 dB    SWT  70 ms          3.410256410 GHz
```
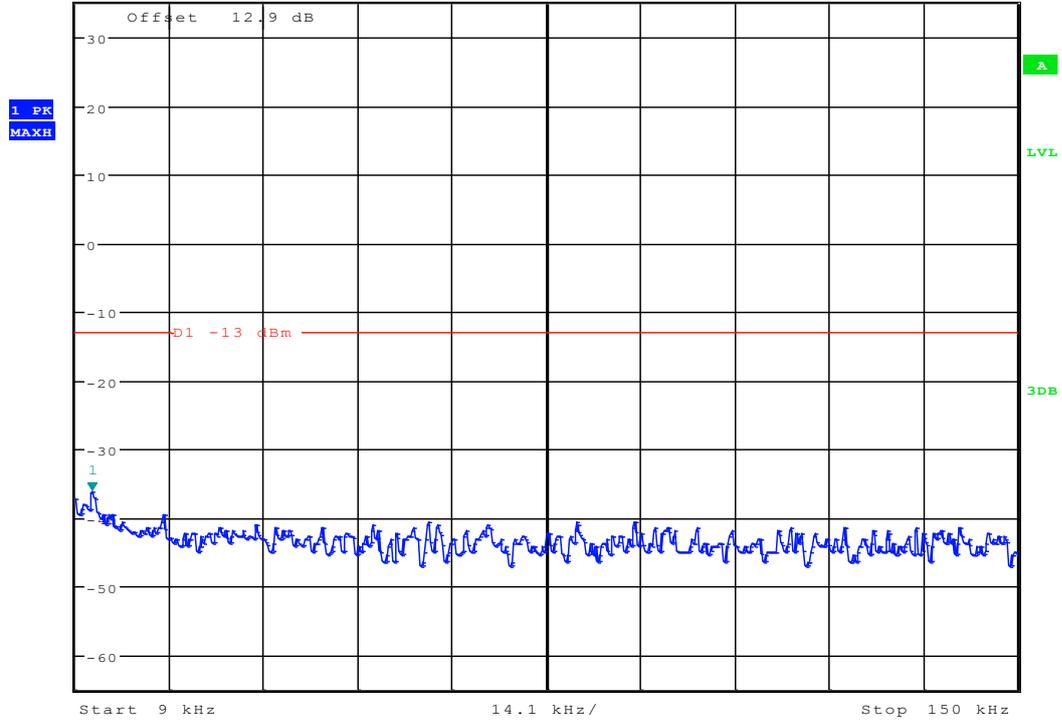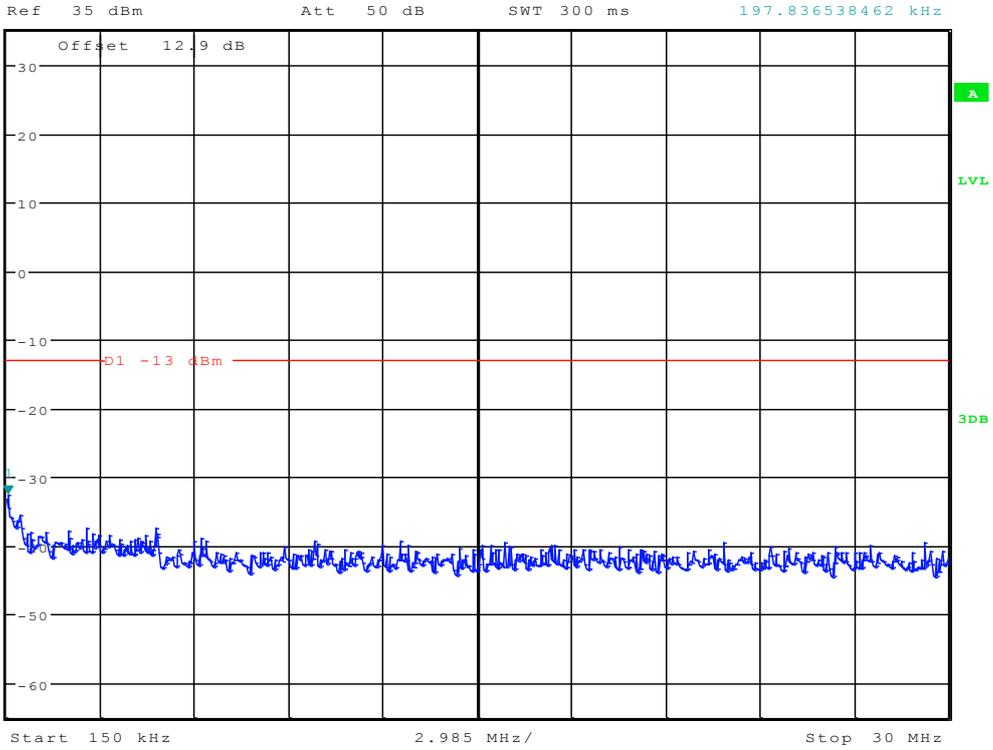


```
Start  1 GHz              1.175 GHz/              Stop  12.75 GHz
```

Date: 11.JUL.2012 12:28:10

Channel 384

	* RBW 1 kHz	Marker 1 [T1]
	* VBW 10 kHz	-36.19 dBm
Ref 35 dBm	Att 50 dB	SWT 145 ms	11.485576923 kHz

```
Offset  12.9 dB
-30                                                              A
-20
1 PK
MAXH
-10                                                             LVL
-0
-10
     D1 -13 dBm
-20                                                             3DB
-30
 1
-40
-50
-60
Start  9 kHz              14.1 kHz/              Stop  150 kHz
```

Date: 11.JUL.2012 12:27:01

Date: 11.JUL.2012 12:27:27

Date: 11.JUL.2012 12:27:53

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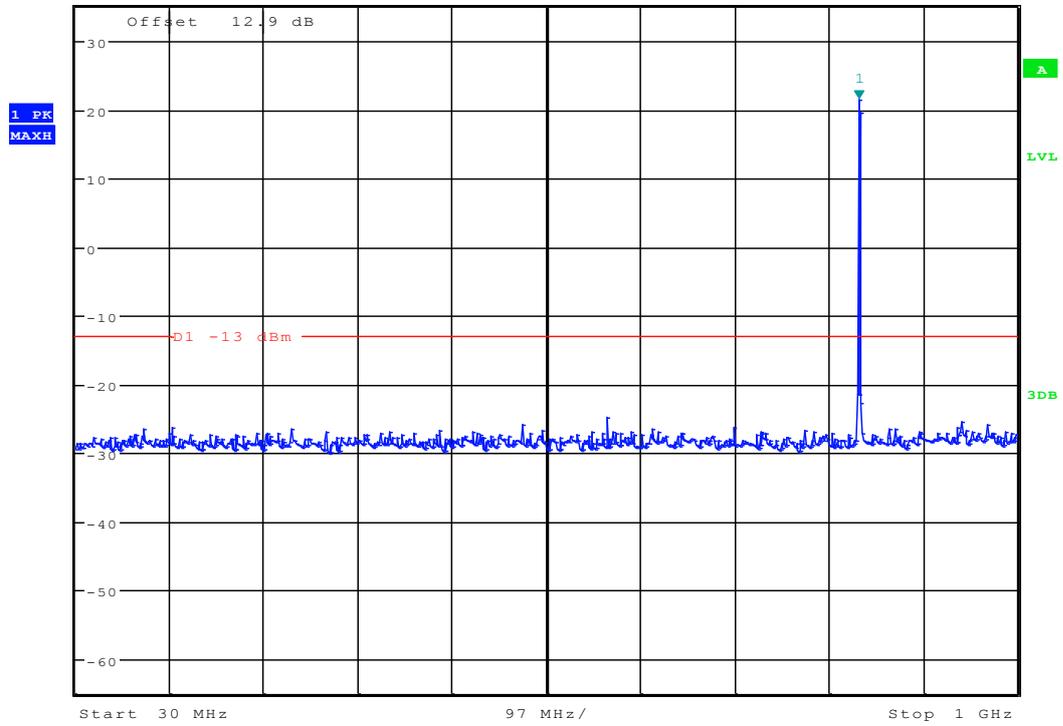
```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz                 -15.10 dBm
        Ref  35 dBm        Att  50 dB    SWT 70 ms      2.638221154 GHz
```
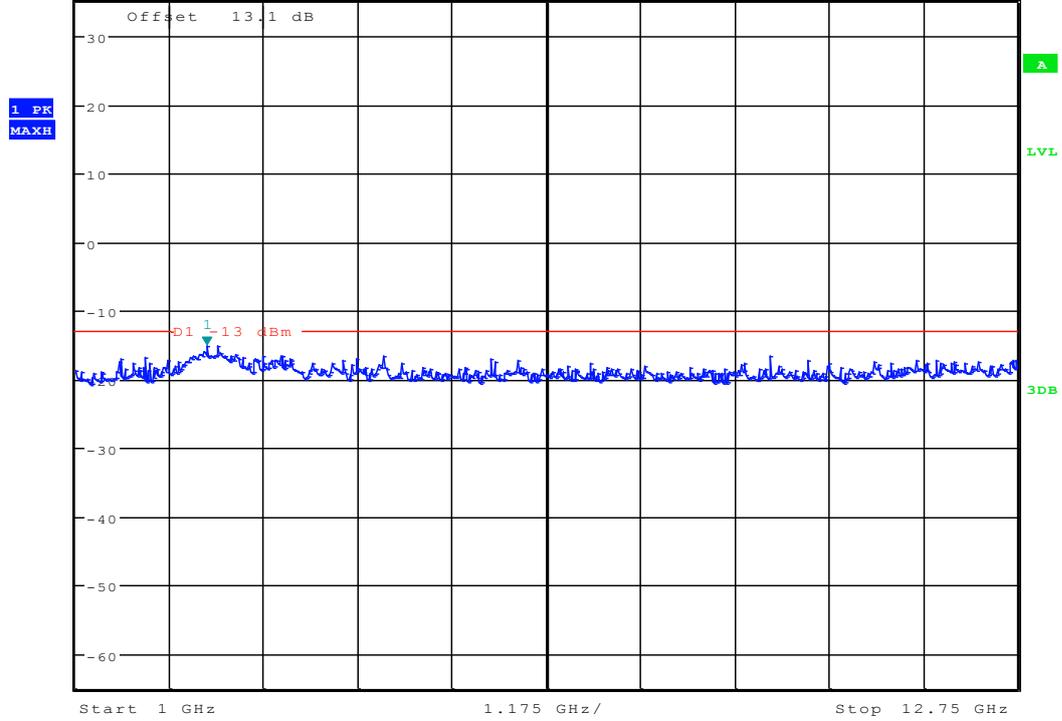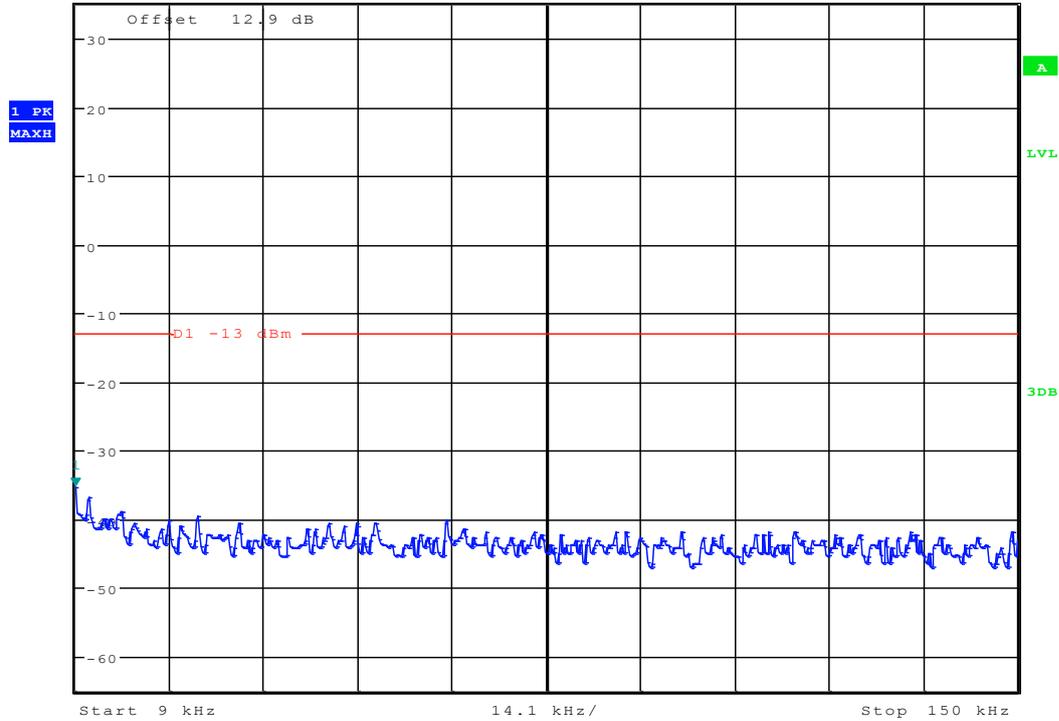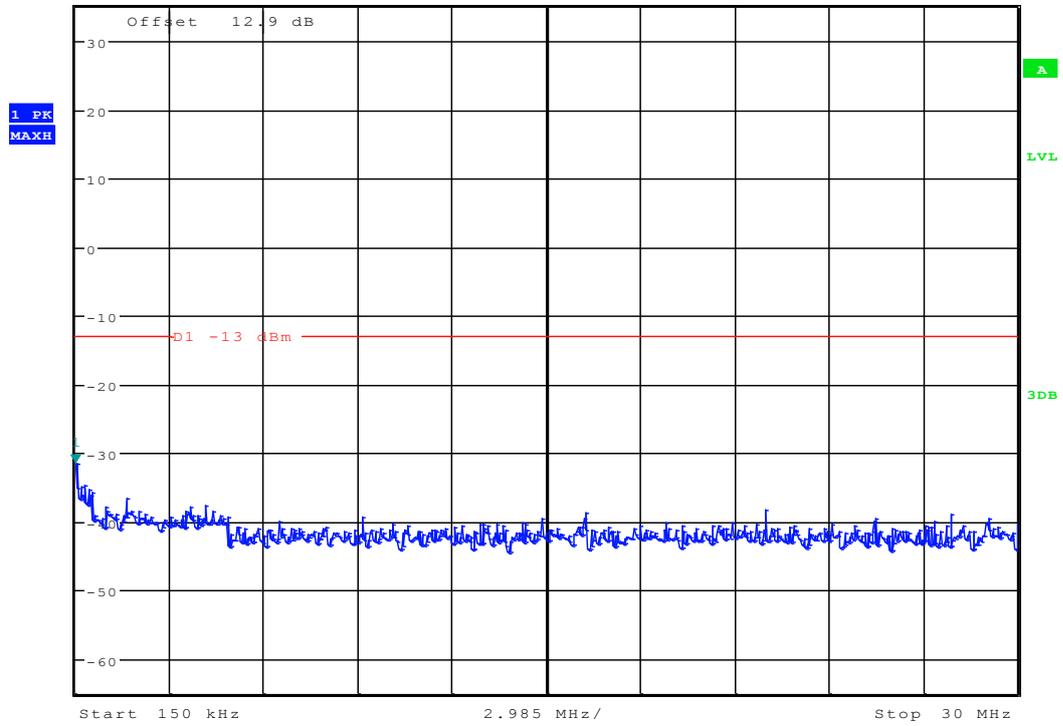


```
        Offset   13.1 dB
     -30
                                                                    A
     -20
1 PK
MAXH -10                                                            LVL
       0
     -10
           D1  1 -13 dBm
     -20                                                            3DB
     -30
     -40
     -50
     -60

     Start 1 GHz            1.175 GHz/          Stop 12.75 GHz
```

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Channel 777

Date: 11.JUL.2012 12:27:10

```
                                    * RBW  10 kHz      Marker 1 [T1 ]
                                    * VBW  30 kHz             -31.59 dBm
Ref   35 dBm          Att  50 dB    SWT  300 ms       150.000000000 kHz
```
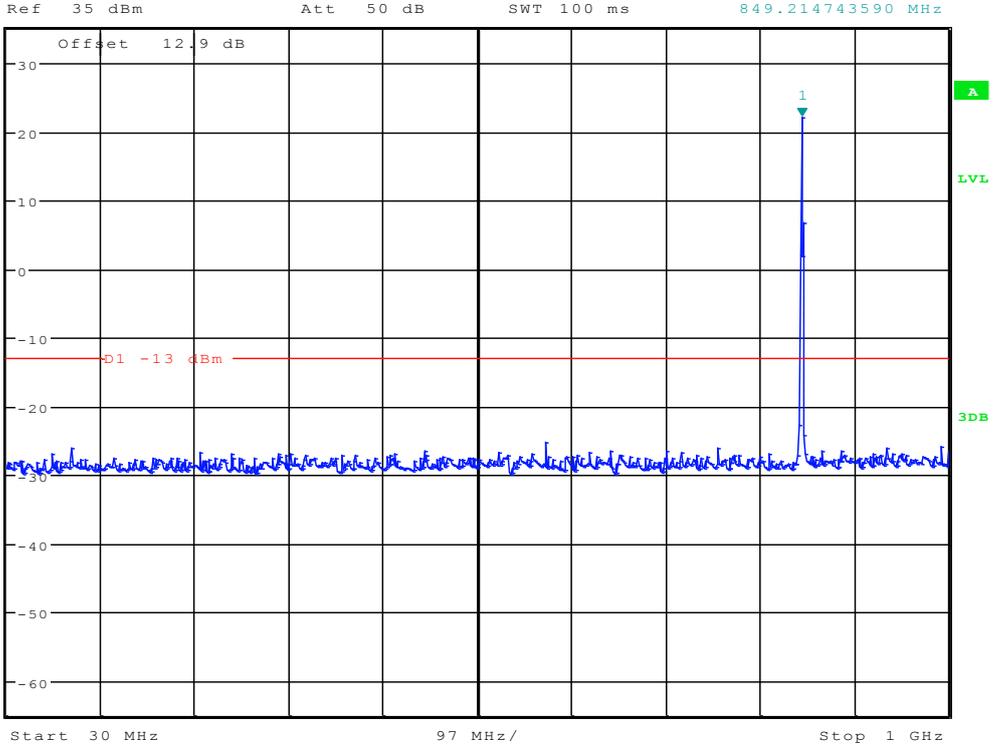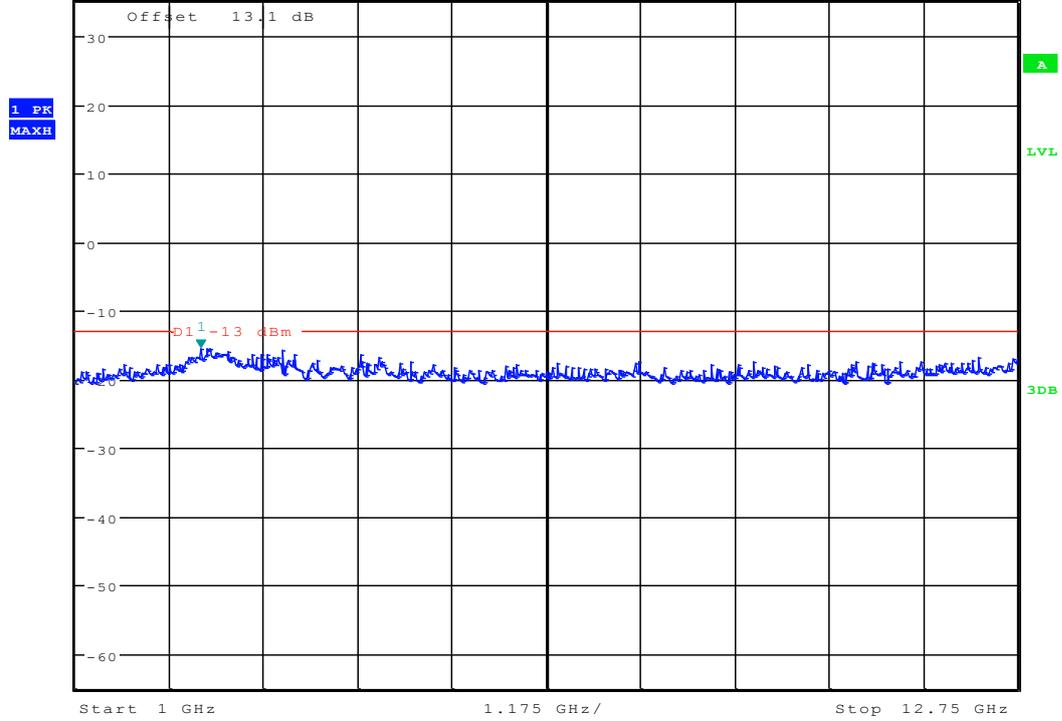
Offset 12.9 dB

1 PK
MAXH

D1 -13 dBm

```
Start  150 kHz              2.985 MHz/              Stop  30 MHz
```

Date: 11.JUL.2012 12:27:35

* RBW 100 kHz	Marker 1 [T1]		
* VBW 300 kHz	22.00 dBm		
Ref 35 dBm	Att 50 dB	SWT 100 ms	849.214743590 MHz

Date: 11.JUL.2012 12:28:01

```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz                 -15.48 dBm
     Ref  35 dBm        Att  50 dB    SWT 70 ms        2.562900641 GHz
```
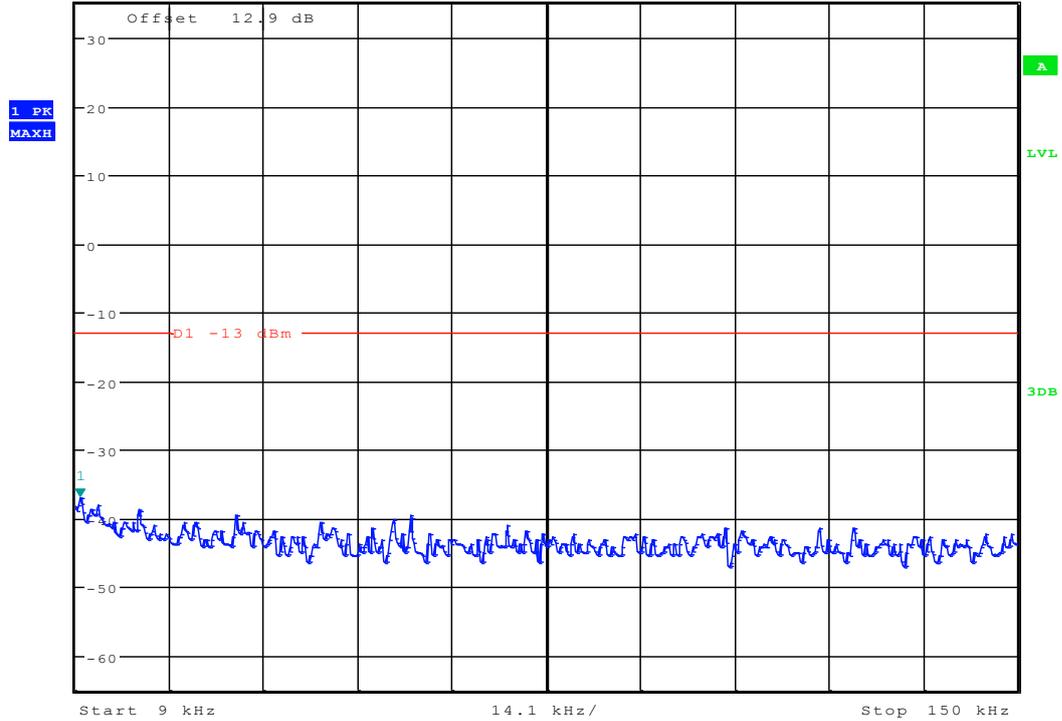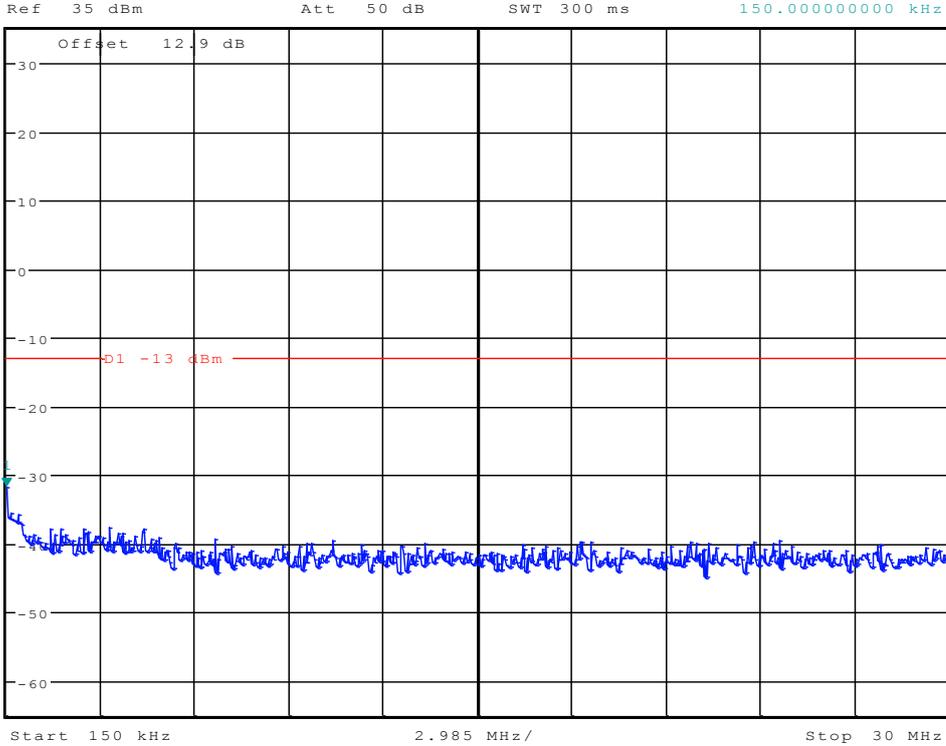


```
     Offset  13.1 dB
 -30
 -20                                                              A
 -10
  0                                                              LVL
-10
      D1  -13 dBm
1 PK
MAXH
-30                                                              3DB
-40
-50
-60

 Start 1 GHz          1.175 GHz/              Stop 12.75 GHz
```

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TM3
Channel 1013

Date: 11.JUL.2012 12:28:37

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Date: 11.JUL.2012 12:29:03

```
                              * RBW 100 kHz      Marker 1 [T1 ]
                              * VBW 300 kHz                20.76 dBm
   Ref  35 dBm       Att  50 dB    SWT 100 ms     825.897435897 MHz
```
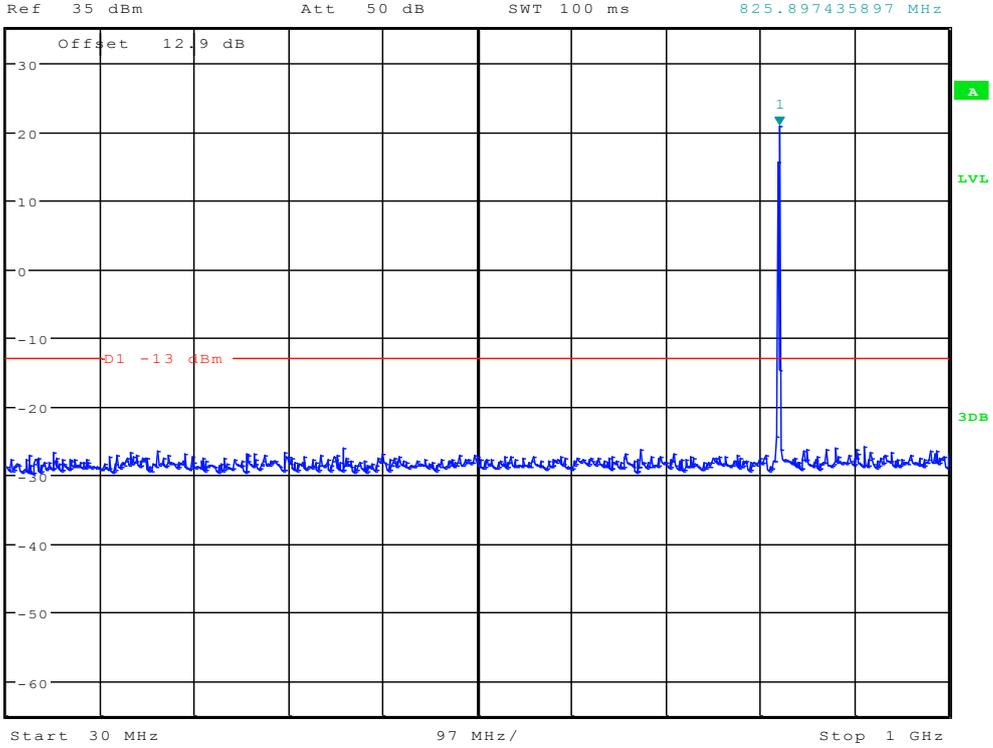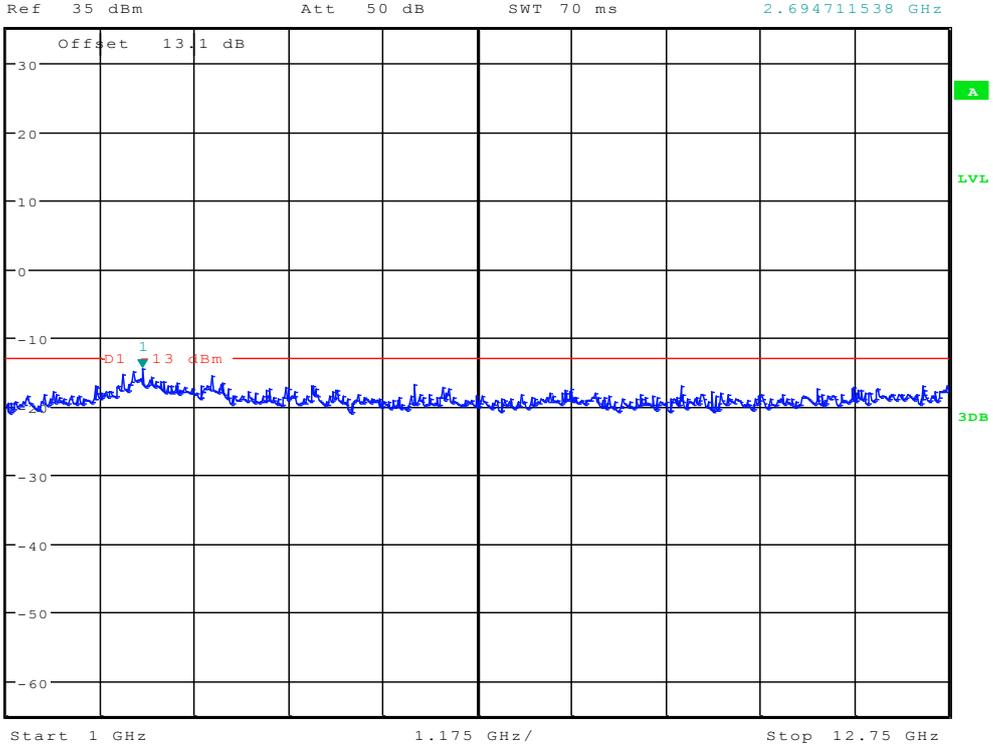


```
Date: 11.JUL.2012  12:29:28
```

```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz               -14.53 dBm
    Ref  35 dBm        Att  50 dB   SWT 70 ms         2.694711538 GHz
```
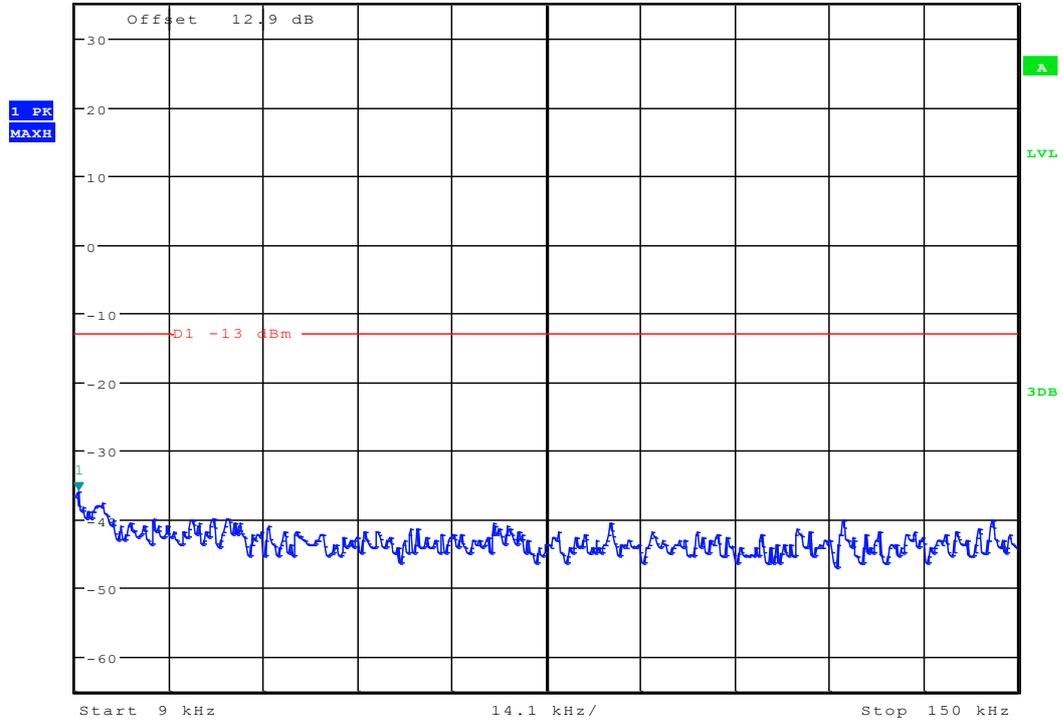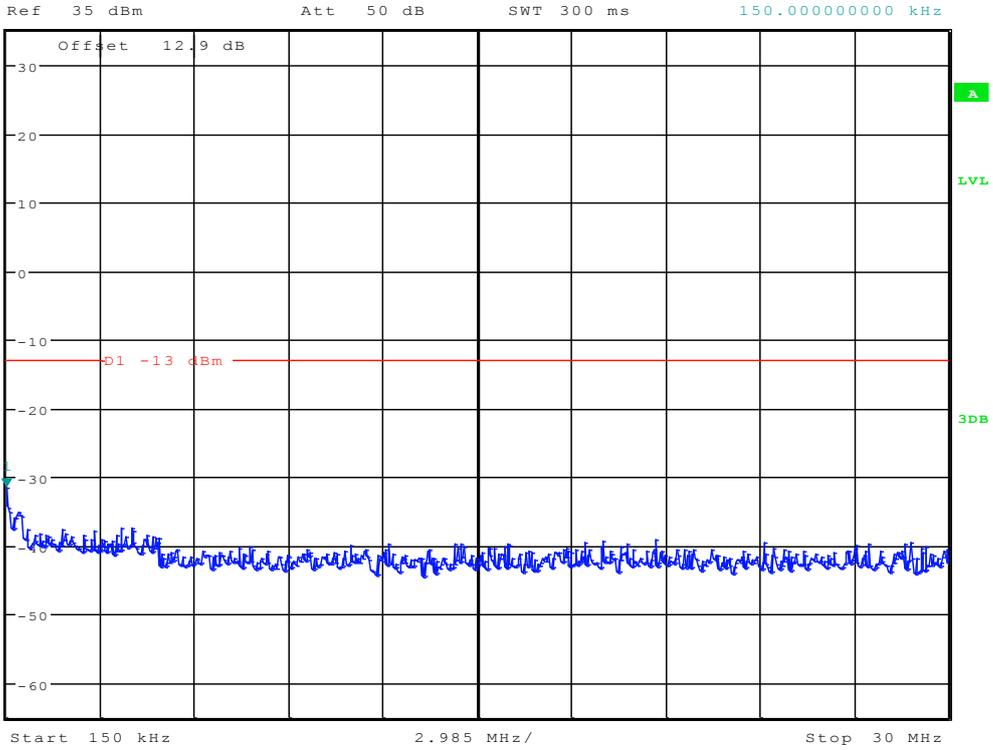


```
    Offset  13.1 dB
```

```
    Start 1 GHz              1.175 GHz/           Stop 12.75 GHz
```

Date: 11.JUL.2012 12:29:54

Channel 384

Ref 35 dBm　　　　　　　Att 50 dB　　SWT 145 ms

* RBW 1 kHz
* VBW 10 kHz

Marker 1 [T1]
　　　　-35.92 dBm
9.451923077 kHz

Offset 12.9 dB

1 PK
MAXH

A

LVL

D1 -13 dBm

3DB

Start 9 kHz　　　　　　14.1 kHz/　　　　　　Stop 150 kHz

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Date: 11.JUL.2012 12:29:11

	* RBW 100 kHz	Marker 1 [T1]
	* VBW 300 kHz	20.67 dBm
Ref 35 dBm	Att 50 dB SWT 100 ms	836.778846154 MHz

Offset 12.9 dB

1 PK
MAXH

A

LVL

D1 -13 dBm

3DB

Start 30 MHz   97 MHz/   Stop 1 GHz
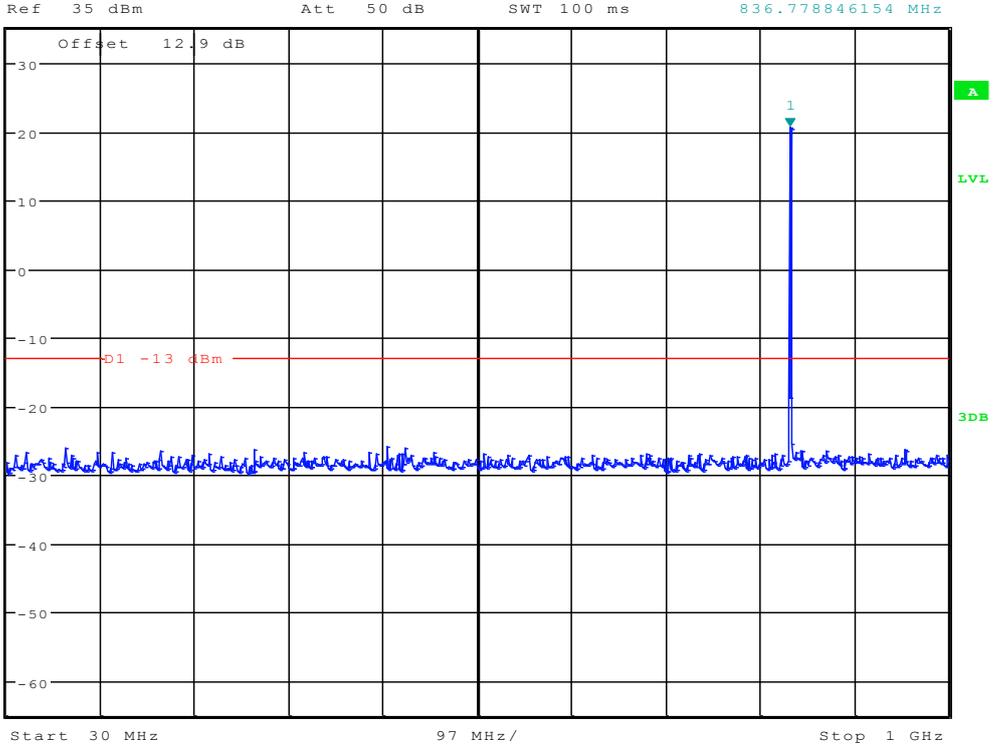
Date: 11.JUL.2012 12:29:37
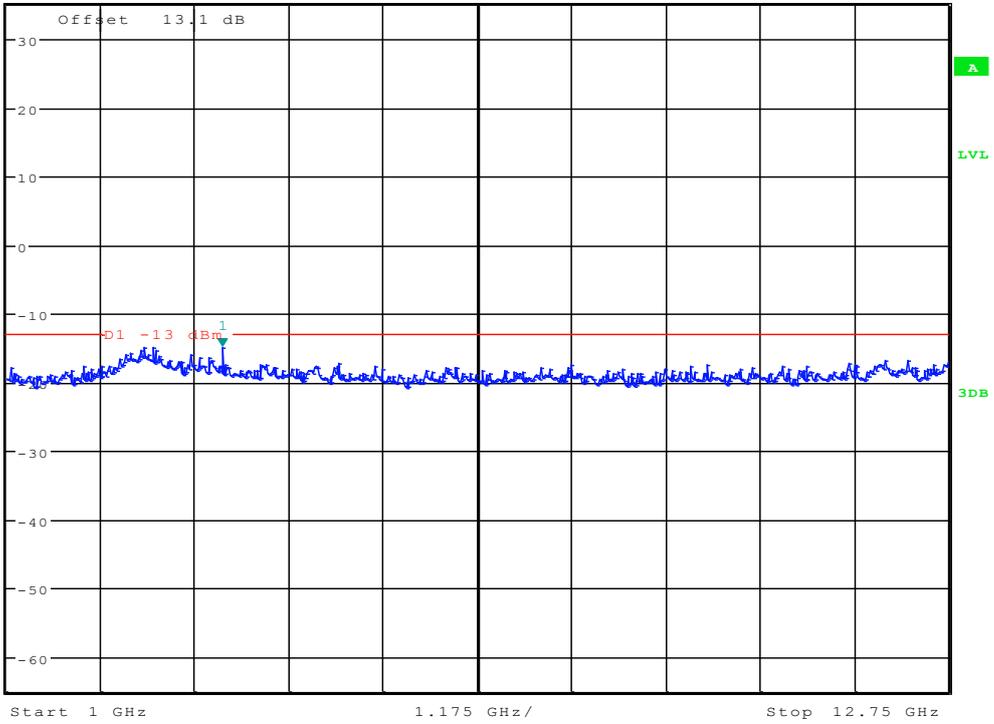
Date: 11.JUL.2012 12:30:03

Channel 777

Date: 11.JUL.2012 12:28:54

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Date: 11.JUL.2012 12:29:20

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```
                                        * RBW  100 kHz      Marker 1 [T1 ]
                                        * VBW  300 kHz              22.68 dBm
         Ref   35 dBm          Att  50 dB    SWT  100 ms      849.214743590 MHz
```
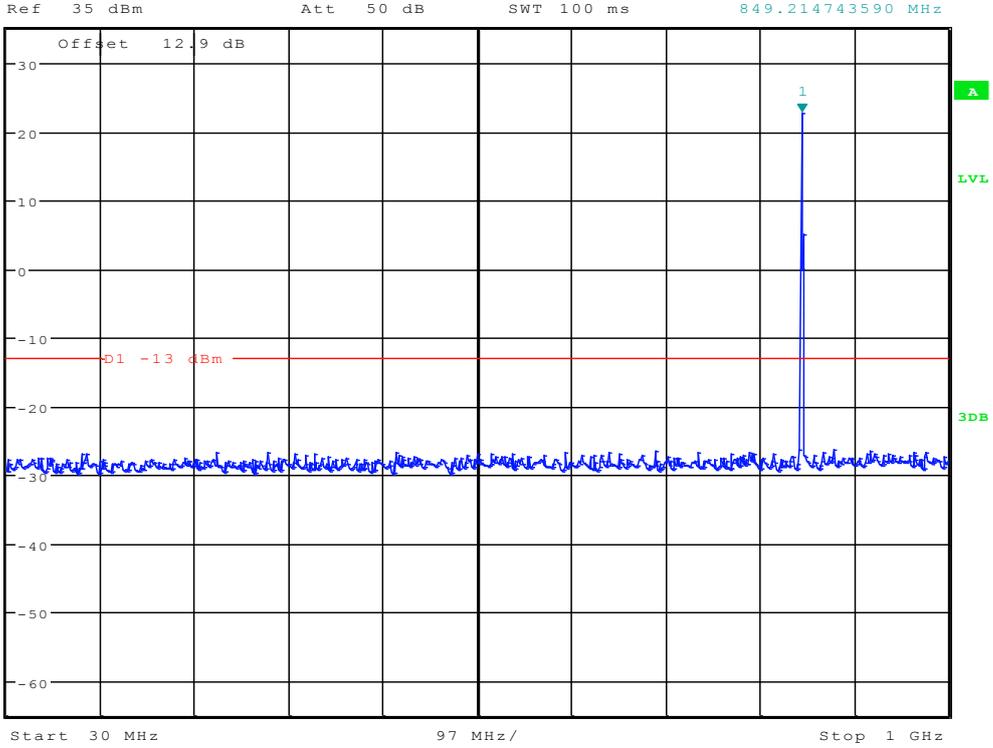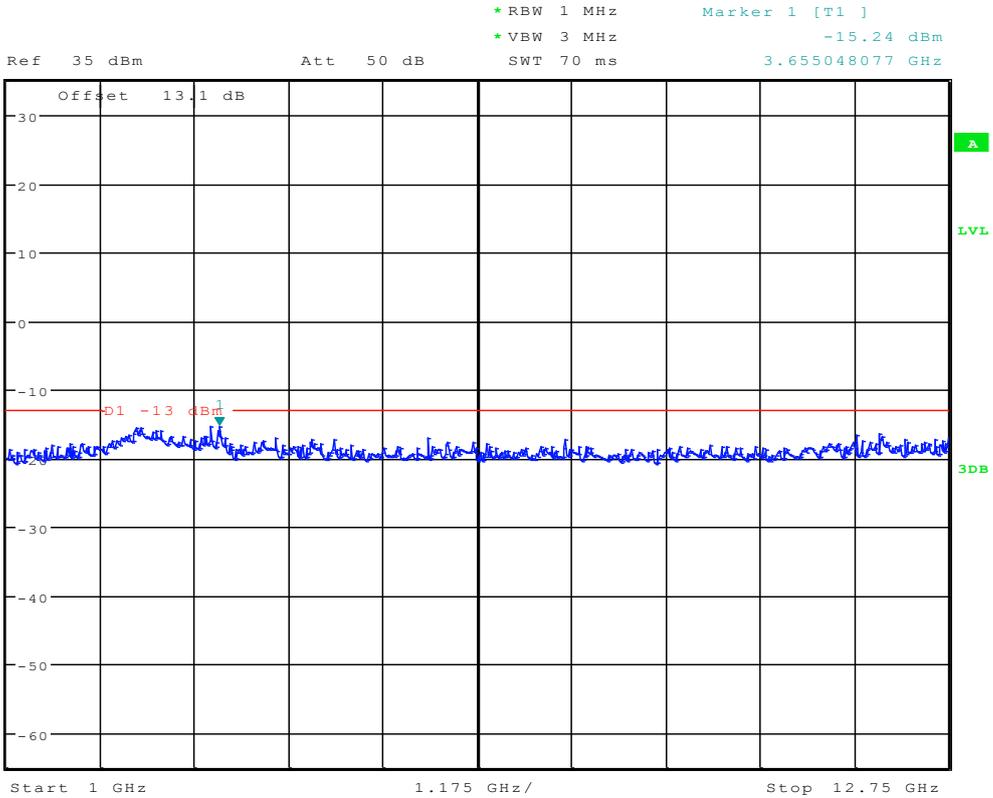


```
Start  30 MHz              97 MHz/            Stop  1 GHz
```

Date: 11.JUL.2012 12:29:45

Date: 11.JUL.2012 12:30:11

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EVDO subtype 0
Channel 1013

Date: 6.JUL.2012 14:51:14

Date: 6.JUL.2012 14:51:57

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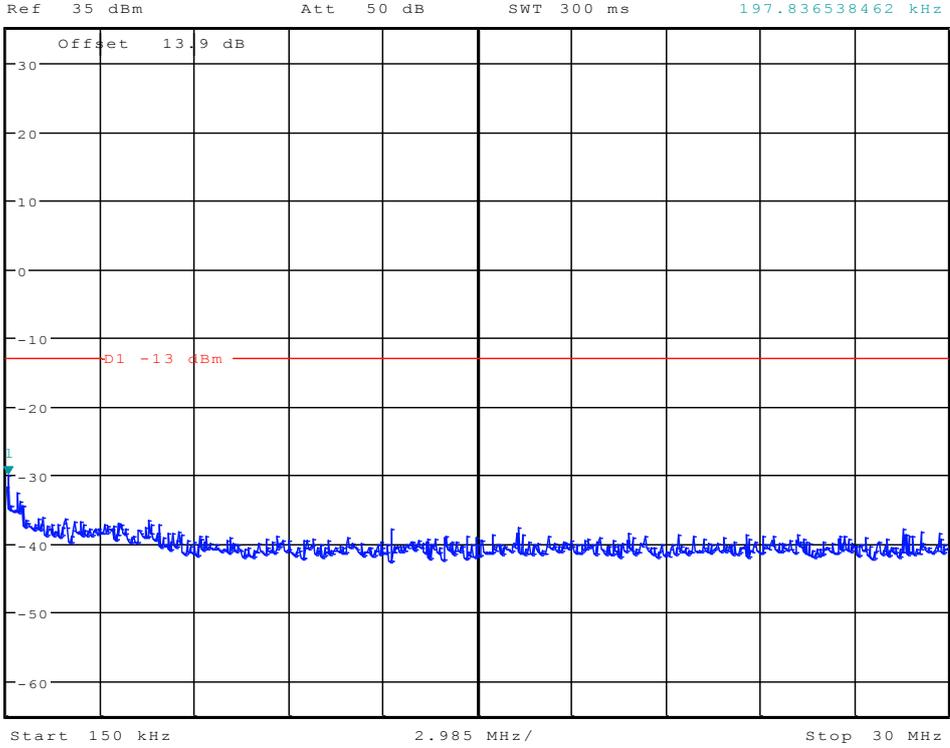
```
                                      * RBW 100 kHz      Marker 1 [T1 ]
                                      * VBW 300 kHz              17.86 dBm
    Ref  35 dBm           Att  50 dB    SWT 100 ms        825.897435897 MHz
```
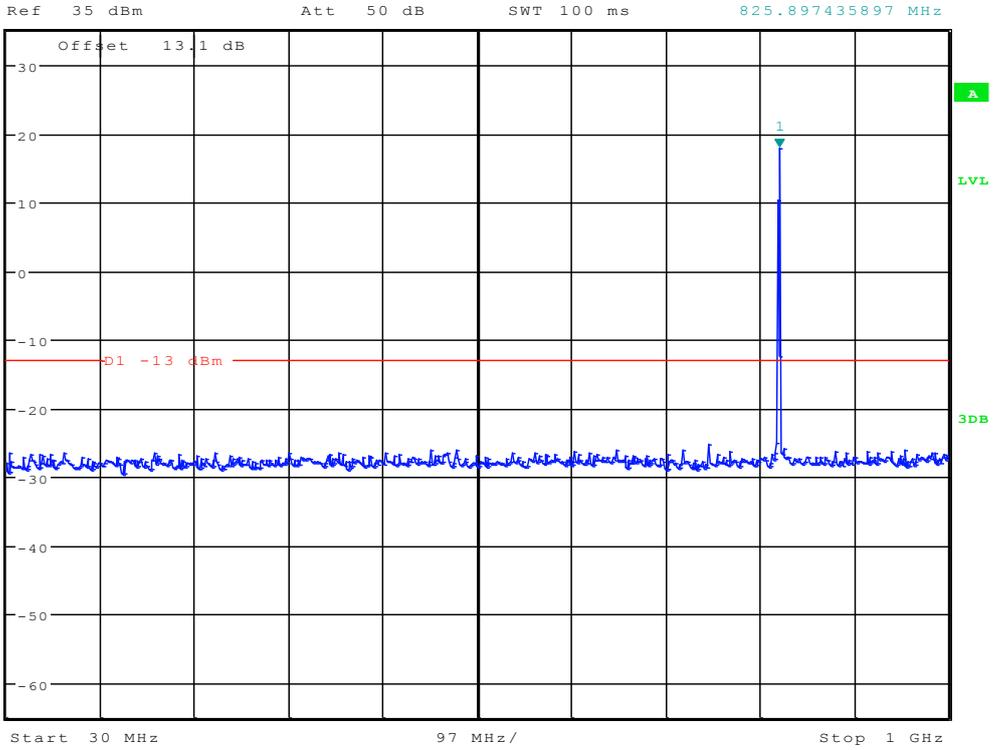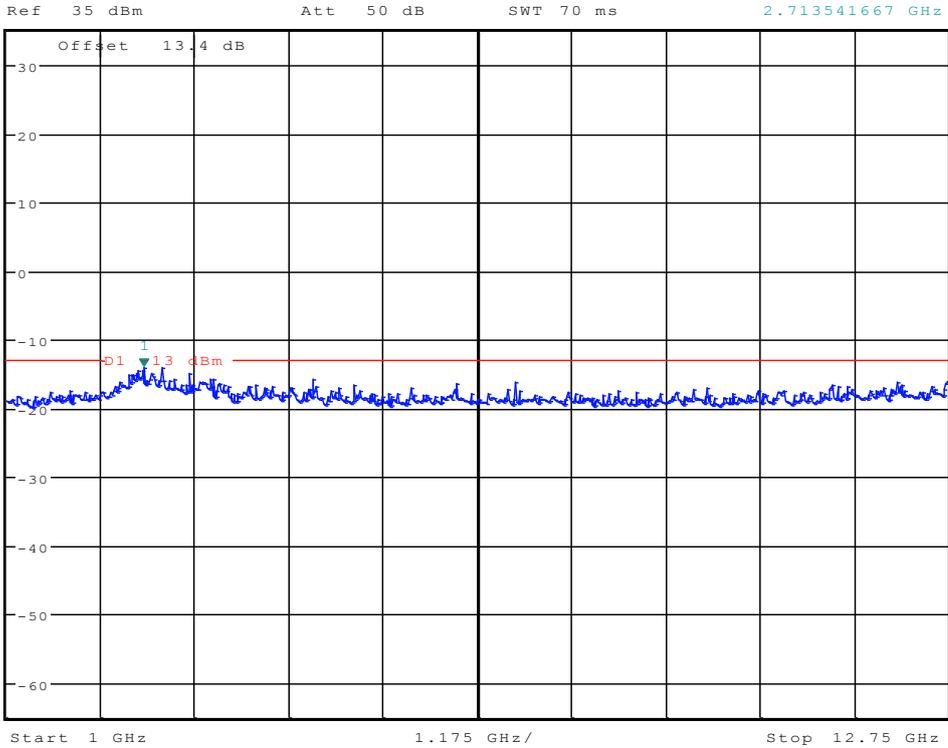


```
Date: 6.JUL.2012  14:52:41
```

```
                                        * RBW  1 MHz        Marker 1 [T1 ]
                                        * VBW  3 MHz                    -14.03 dBm
     Ref   35 dBm          Att  50 dB     SWT  70 ms        2.713541667 GHz
```

Offset   13.4 dB

1 PK
MAXH

D1 ▼13 dBm

```
Start  1 GHz              1.175 GHz/            Stop  12.75 GHz
```
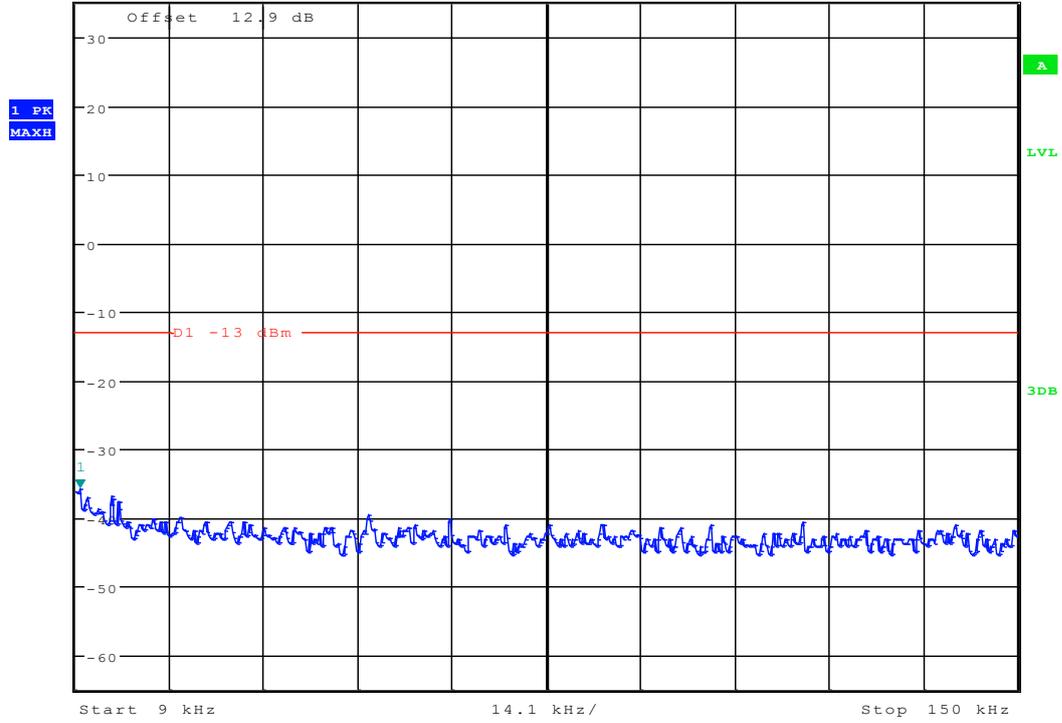
Date: 6.JUL.2012 14:53:24

Channel 384

Ref 35 dBm   Att 50 dB   *RBW 1 kHz   Marker 1 [T1]
                                       *VBW 10 kHz   -35.74 dBm
                                        SWT 145 ms   9.677884615 kHz

Offset 12.9 dB

1 PK MAXH

A

LVL

D1 -13 dBm

3DB

Start 9 kHz   14.1 kHz/   Stop 150 kHz

Date: 6.JUL.2012 14:51:28

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```
                                              * RBW  10 kHz        Marker 1 [T1 ]
                                              * VBW  30 kHz                 -31.22 dBm
        Ref   35 dBm          Att   50 dB     SWT  300 ms         150.000000000 kHz
```
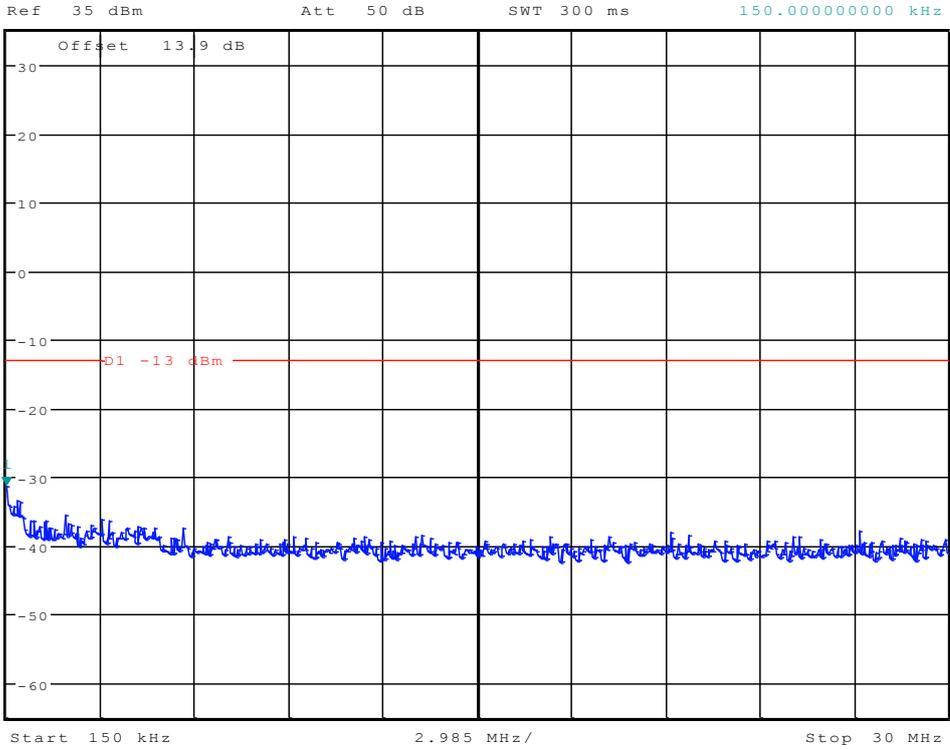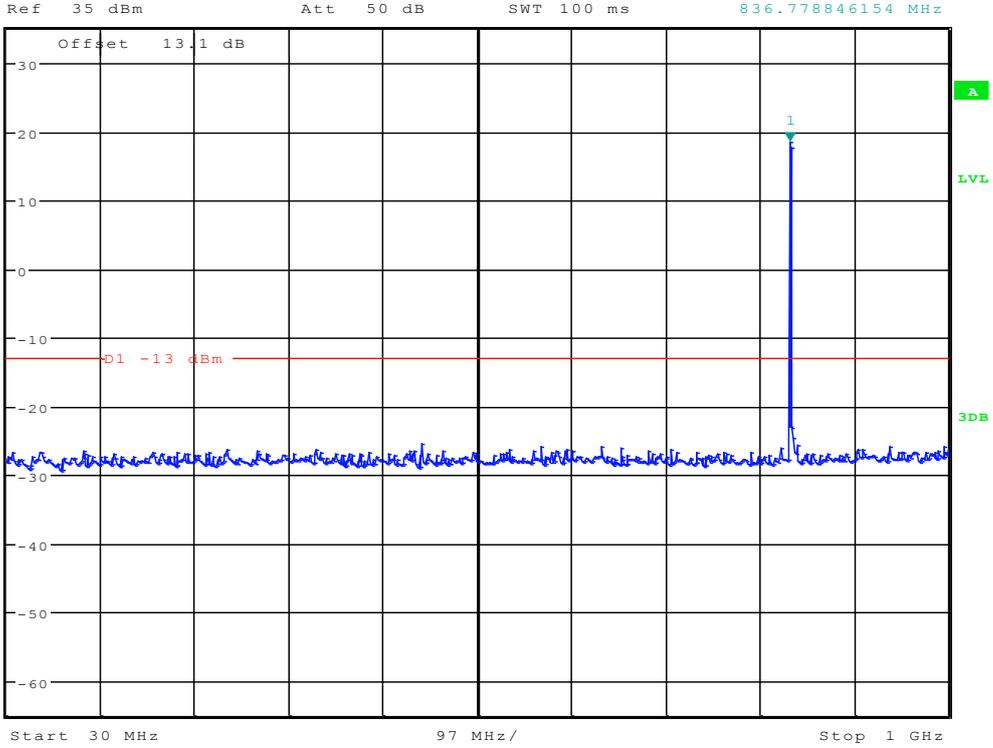


```
Date: 6.JUL.2012  14:52:11
```

Date: 6.JUL.2012 14:52:55

```
                                          * RBW  1 MHz        Marker 1 [T1 ]
                                          * VBW  3 MHz                -14.27 dBm
    Ref   35 dBm            Att   50 dB     SWT  70 ms        2.619391026 GHz

          Offset   13.4 dB                                                    A

  1 PK                                                                      LVL
  MAXH

                  D1  13 dBm

                                                                           3DB

    Start  1 GHz                 1.175 GHz/              Stop  12.75 GHz
```
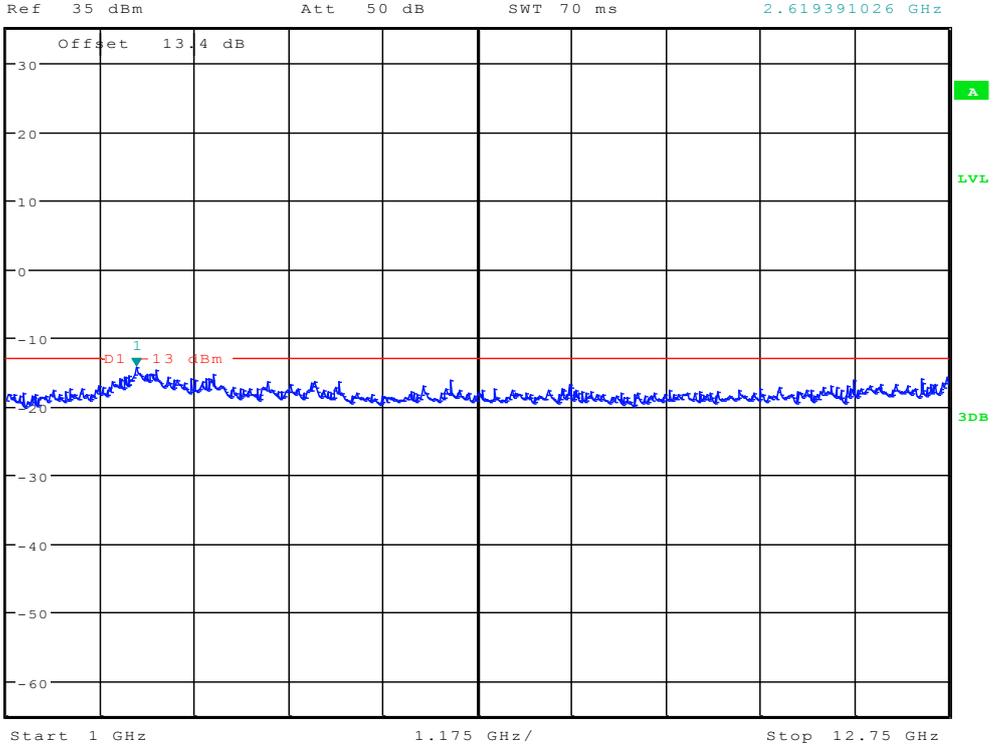
Date: 6.JUL.2012 14:53:39

Channel 777

```
                                          * RBW  1 kHz      Marker 1 [T1 ]
                                          * VBW  10 kHz             -36.38 dBm
       Ref   35 dBm          Att  50 dB     SWT  145 ms       9.677884615 kHz
```
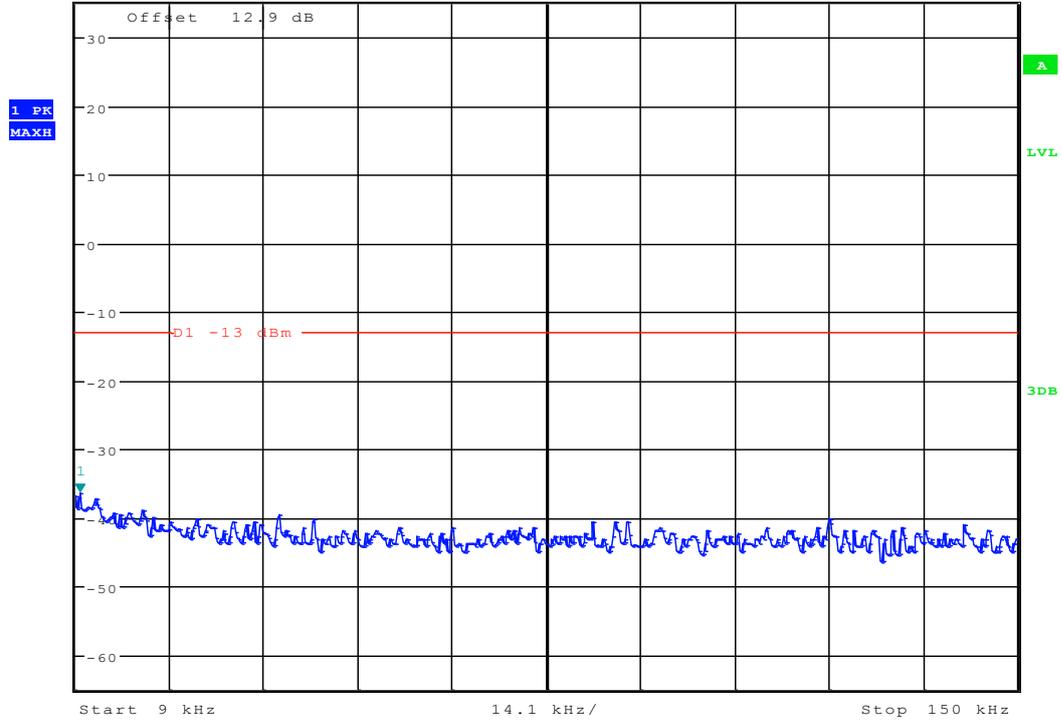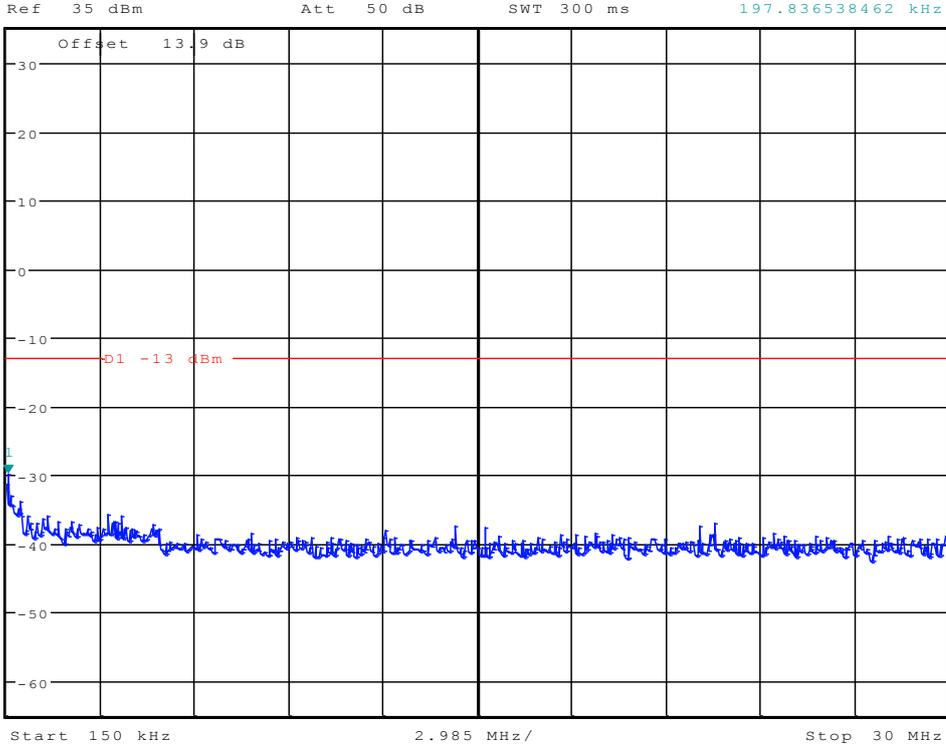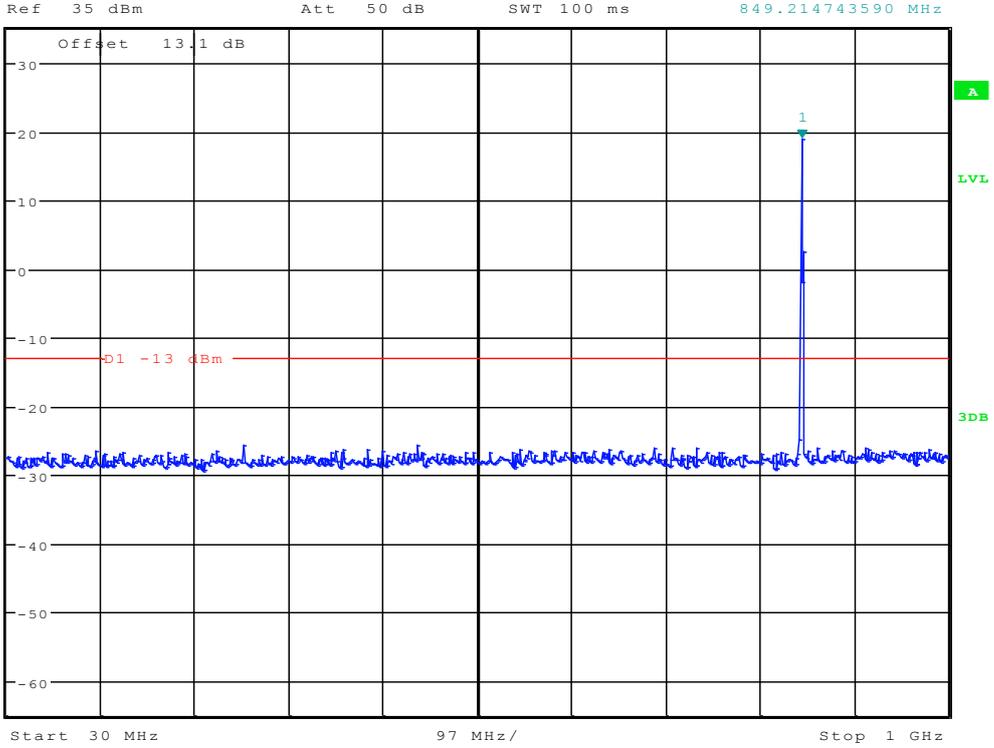
Offset   12.9 dB

D1 -13 dBm

```
Start  9 kHz              14.1 kHz/              Stop  150 kHz
```

Date: 6.JUL.2012 14:51:42

```
                                    * RBW  10 kHz      Marker 1 [T1 ]
                                    * VBW  30 kHz              -29.75 dBm
      Ref  35 dBm          Att  50 dB    SWT 300 ms     197.836538462 kHz
```
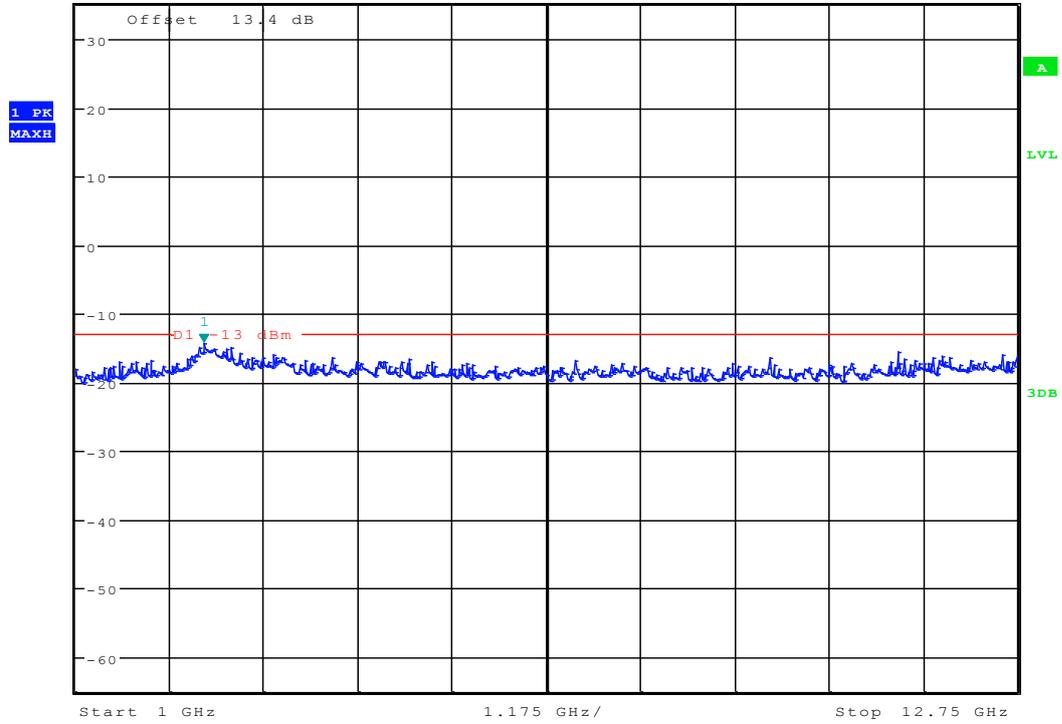


```
      Offset  13.9 dB
```

```
Start  150 kHz              2.985 MHz/              Stop  30 MHz
```

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```
                                          * RBW  1 MHz        Marker 1 [T1 ]
                                          * VBW  3 MHz                -14.27 dBm
     Ref  35 dBm              Att  50 dB    SWT  70 ms        2.600560897 GHz

       Offset   13.4 dB                                                    A
    -30

1 PK
MAXH -20                                                                   LVL

    -10

     -0

    -10
      D1 -13 dBm

    -20                                                                    3DB

    -30

    -40

    -50

    -60

   Start  1 GHz              1.175 GHz/            Stop  12.75 GHz
```
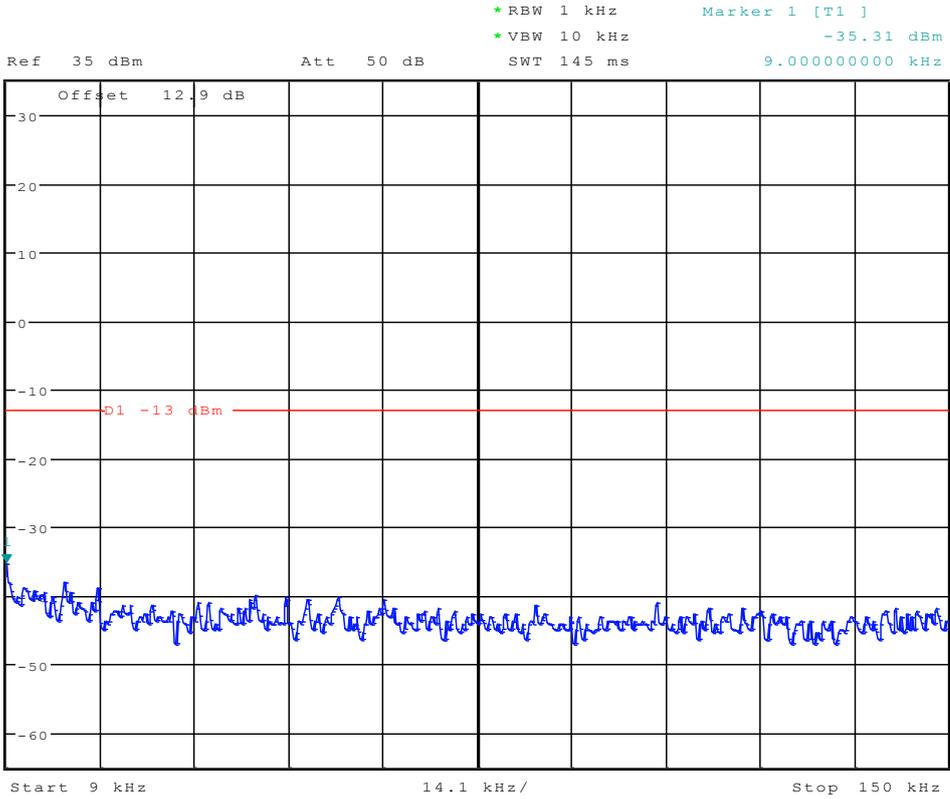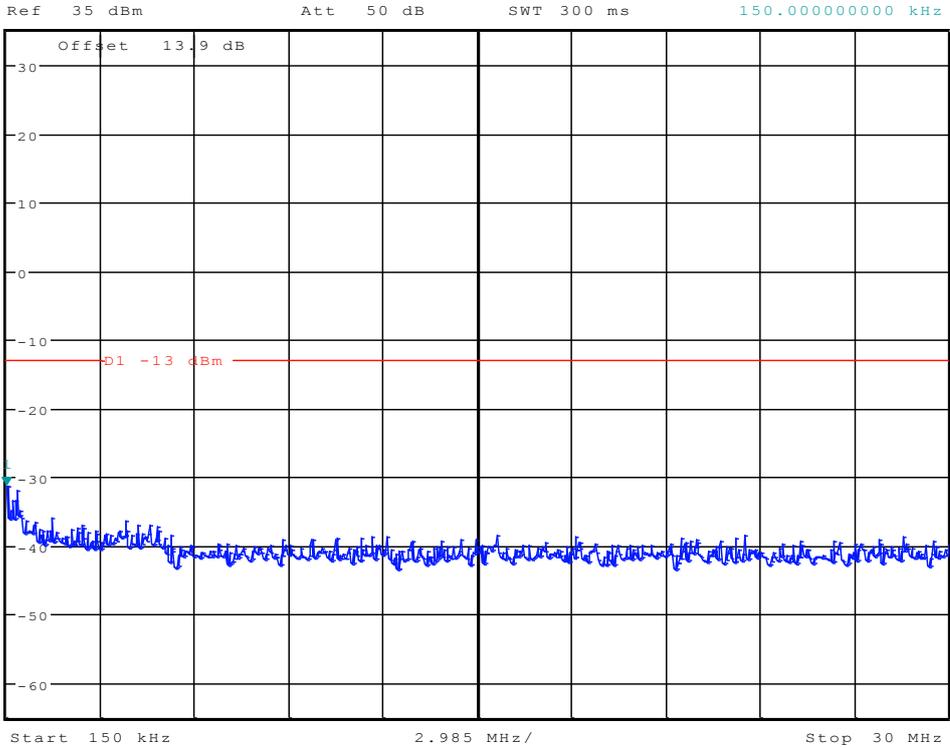
Date: 6.JUL.2012 14:53:53

EVDO subtype 2
Modulation: BPSK
Channel 1013

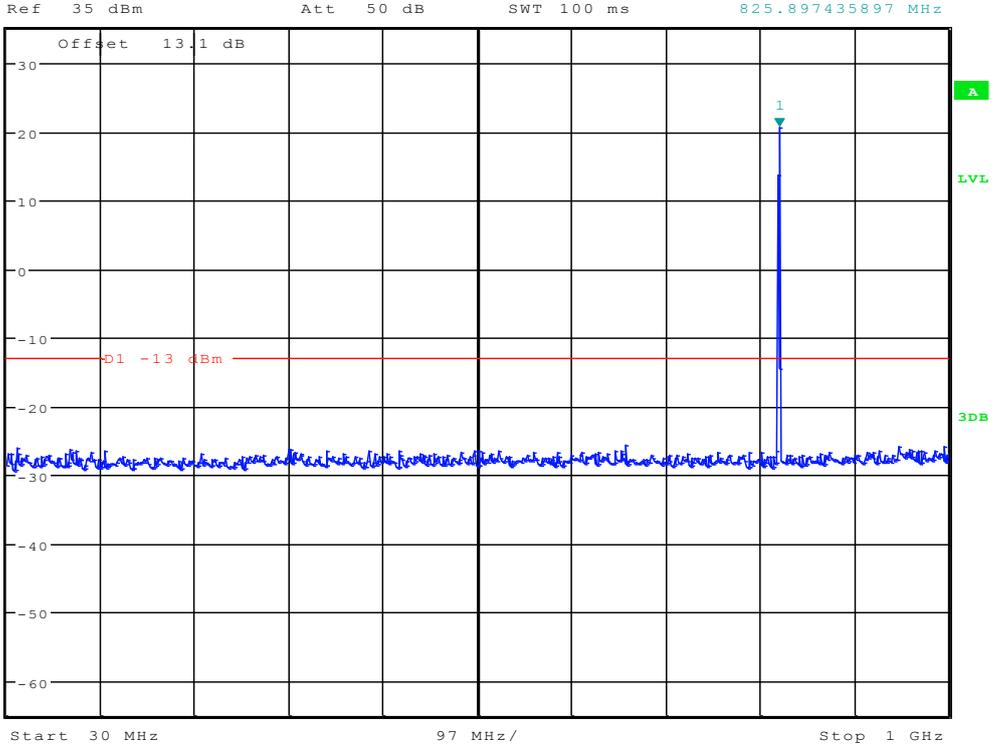Date: 6.JUL.2012 15:39:05

```
                                          * RBW  10 kHz        Marker 1 [T1 ]
                                          * VBW  30 kHz                   -31.22 dBm
        Ref  35 dBm            Att  50 dB   SWT  300 ms        150.000000000 kHz

          Offset  13.9 dB
        -30                                                                    A

1 PK    -20
MAXH                                                                          LVL
        -10

         0

        -10
        D1 -13 dBm

        -20                                                                    3DB

        -30

        -40

        -50

        -60

        Start 150 kHz              2.985 MHz/              Stop  30 MHz
```
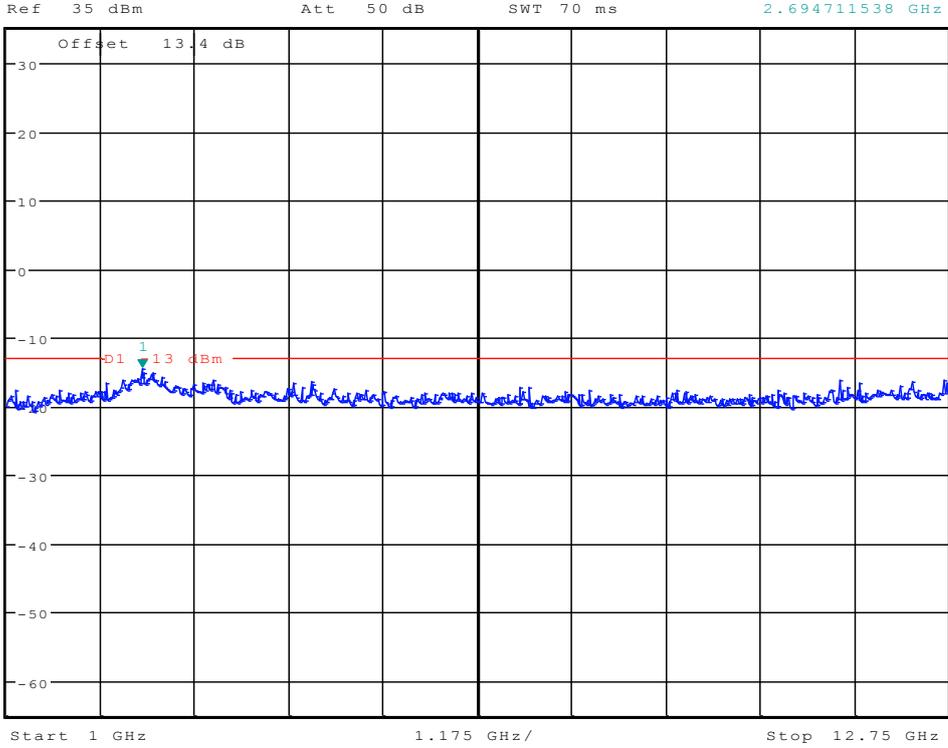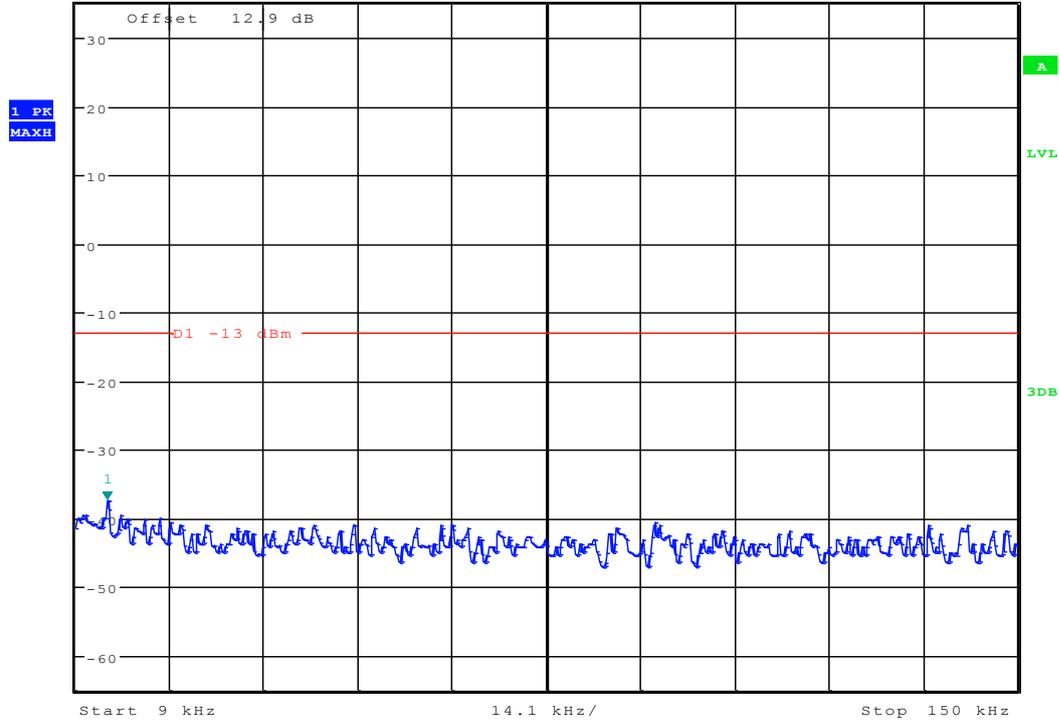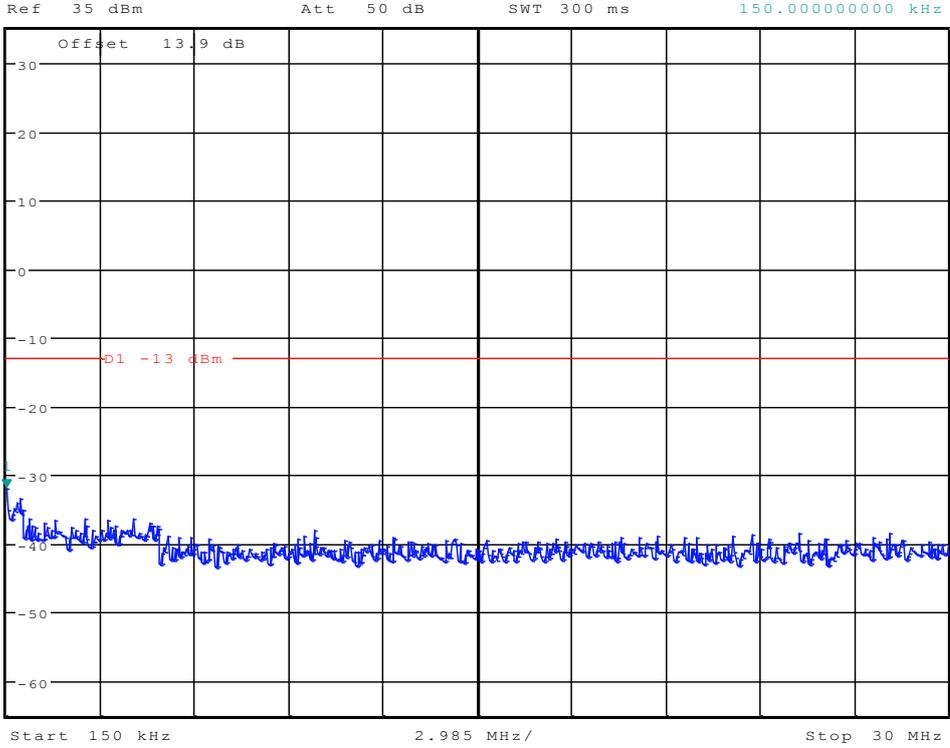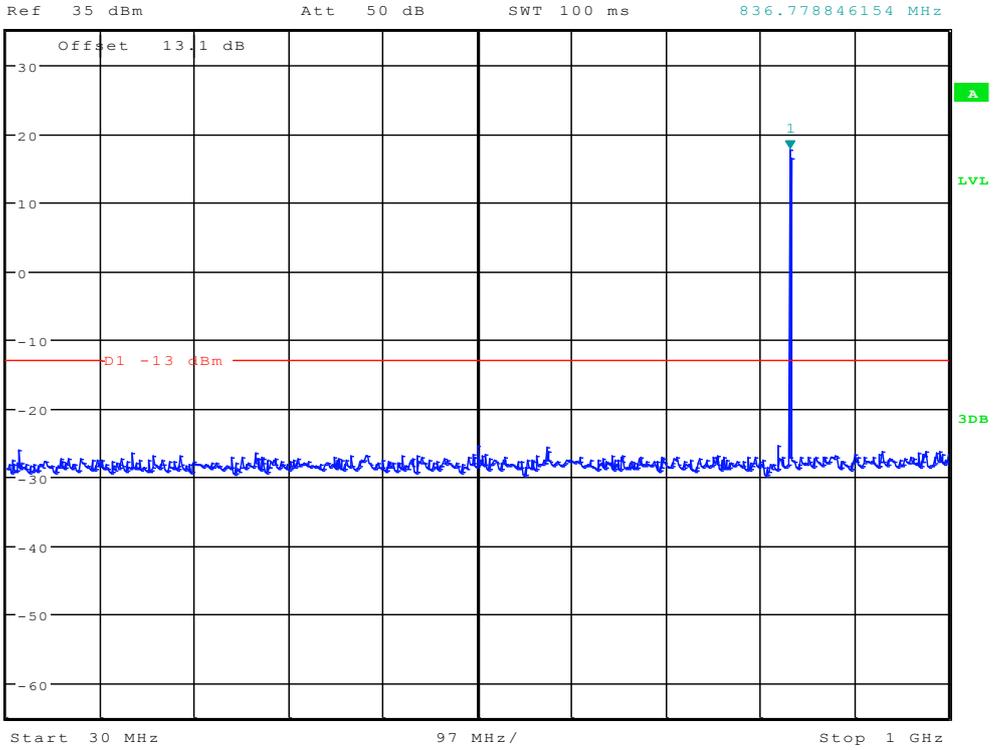
Date: 6.JUL.2012 15:39:31

```
                                          * RBW  100 kHz      Marker 1 [T1 ]
                                          * VBW  300 kHz                20.63 dBm
         Ref  35 dBm          Att  50 dB    SWT  100 ms       825.897435897 MHz

           Offset   13.1 dB
         -30                                                                      A
         -20                                                              1
                                                                          ▼
                                                                                  LVL
          10
           0
         -10
         D1 -13 dBm
         -20                                                                      3DB
         -30
         -40
         -50
         -60
         Start  30 MHz              97 MHz/                    Stop  1 GHz

         1 PK
         MAXH
```
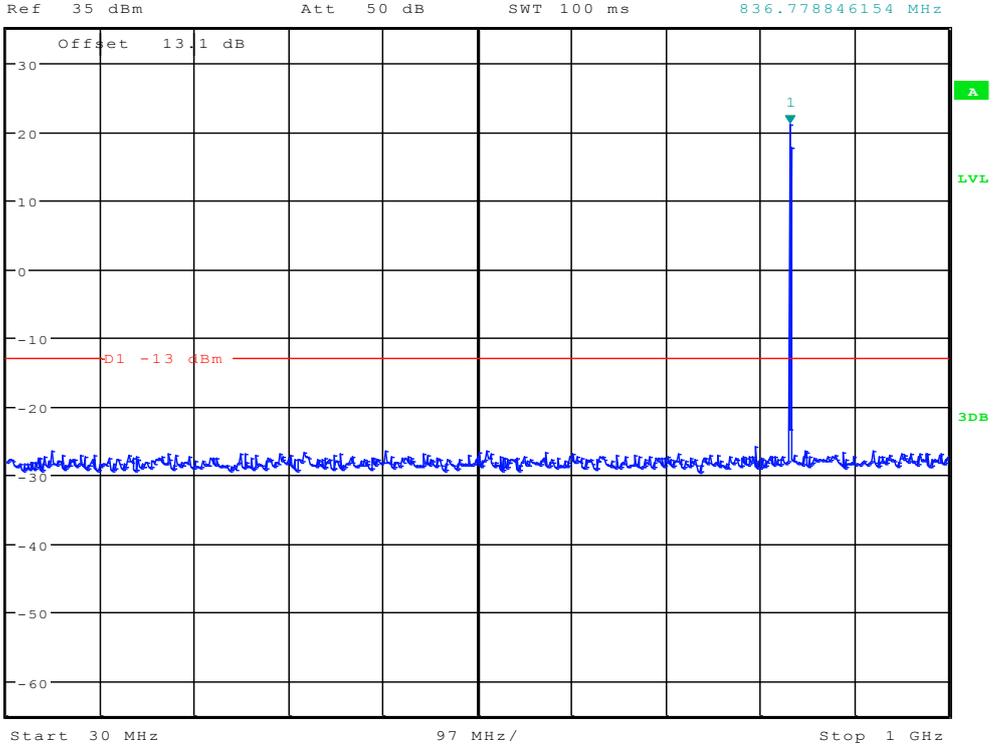
Date: 6.JUL.2012 15:40:01

Date: 6.JUL.2012 15:40:26

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Channel 384

Date: 6.JUL.2012 15:12:39

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```
                                        * RBW  10 kHz      Marker 1 [T1 ]
                                        * VBW  30 kHz                -31.83 dBm
   Ref   35 dBm           Att  50 dB    SWT  300 ms        150.000000000 kHz
```
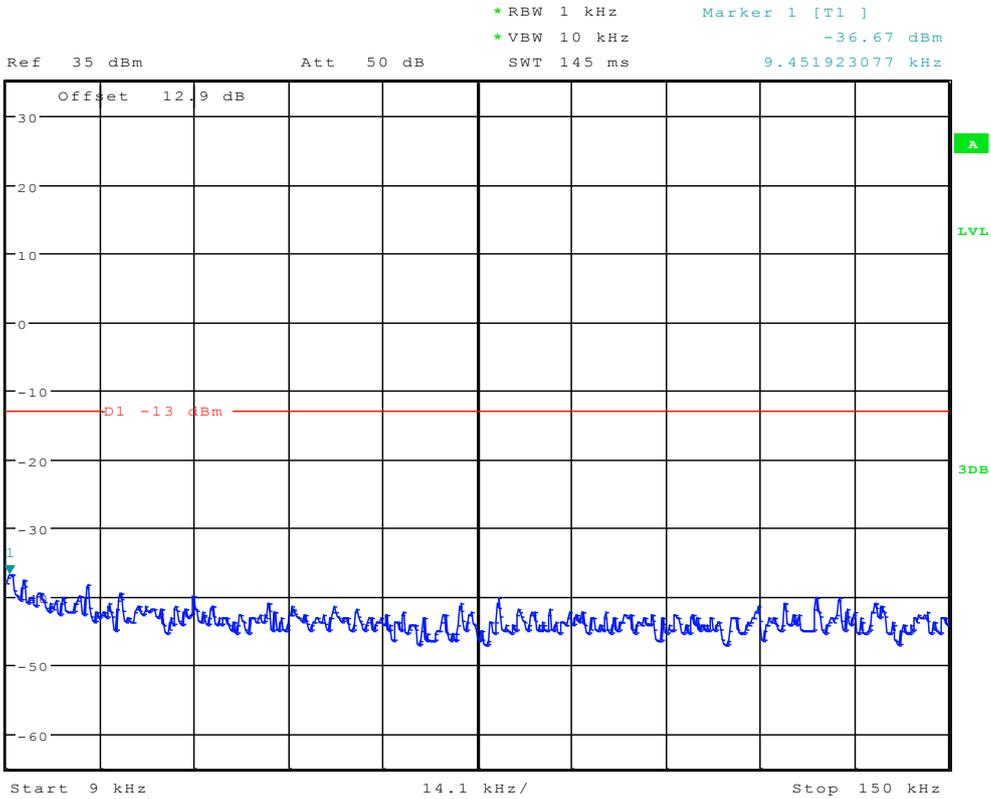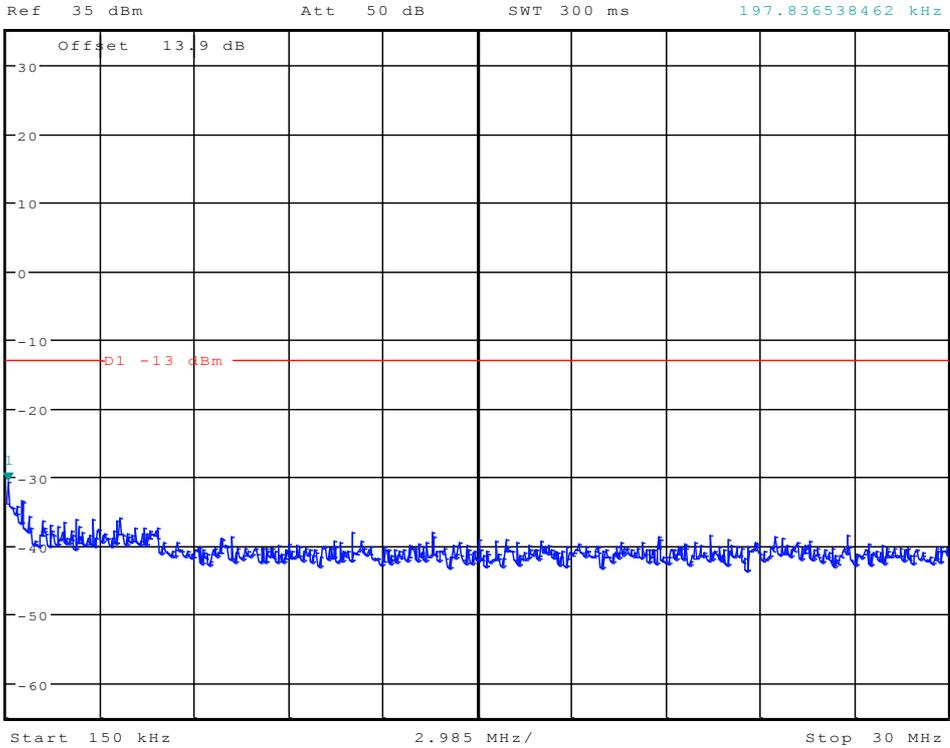
Offset 13.9 dB

D1 -13 dBm

Start 150 kHz   2.985 MHz/   Stop 30 MHz

Date: 6.JUL.2012 15:39:39

Date: 6.JUL.2012 15:40:09

Date: 6.JUL.2012 15:40:35

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Channel 777

Date: 6.JUL.2012 15:12:48

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* RBW 10 kHz	Marker 1 [T1]	
* VBW 30 kHz	-30.53 dBm	
Ref 35 dBm Att 50 dB SWT 300 ms	150.000000000 kHz	

```
Offset  13.9 dB
                                                                    A

1 PK                                                                LVL
MAXH

                    D1 -13 dBm

                                                                    3DB
```

Start 150 kHz   2.985 MHz/   Stop 30 MHz

Date: 6.JUL.2012 15:39:47

Date: 6.JUL.2012   15:40:17

```
                                          * RBW  1 MHz        Marker 1 [T1 ]
                                          * VBW  3 MHz                  -14.57 dBm
        Ref   35 dBm          Att   50 dB   SWT  70 ms         2.657051282 GHz

            Offset   13.4 dB
         30

  1 PK
  MAXH   20

         10

          0

        -10
              D1   13 dBm

              (trace)

        -30

        -40

        -50

        -60

      Start  1 GHz              1.175 GHz/            Stop  12.75 GHz
```
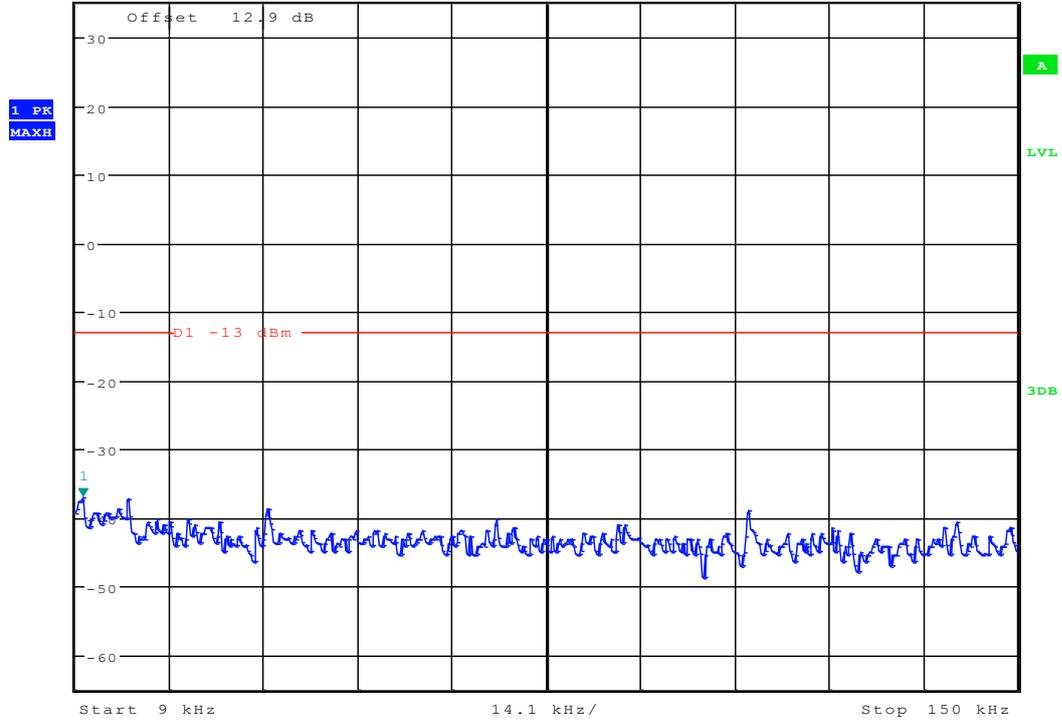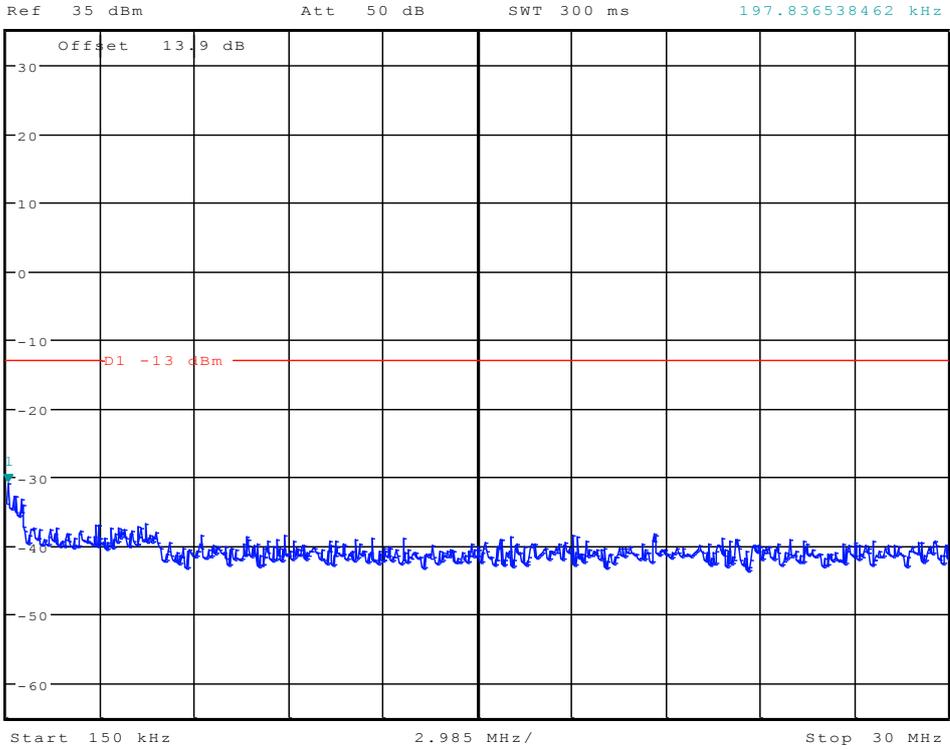
A

LVL

3DB
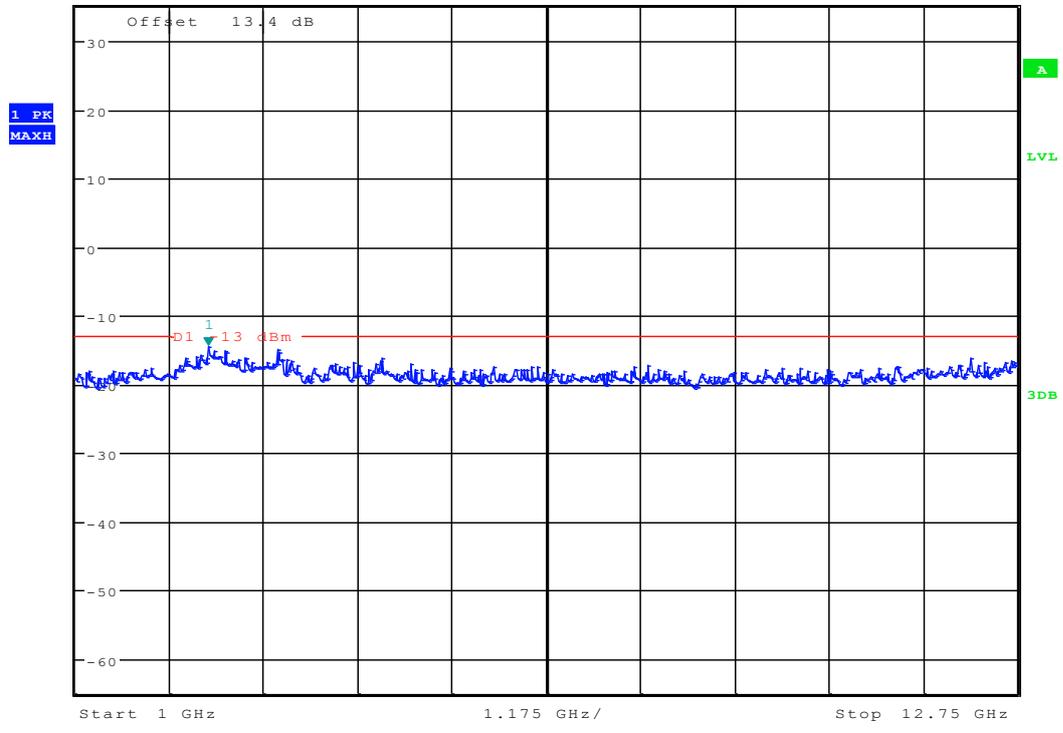
Date: 6.JUL.2012 15:14:05

Modulation：QPSK
Channel 1013

Date: 6.JUL.2012 15:40:52

Report No:
SYBH(Z-RF)007072012-2001

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Date: 6.JUL.2012 15:29:23

*RBW 100 kHz   Marker 1 [T1]
*VBW 300 kHz   21.65 dBm
Ref 35 dBm   Att 50 dB   SWT 100 ms   825.897435897 MHz
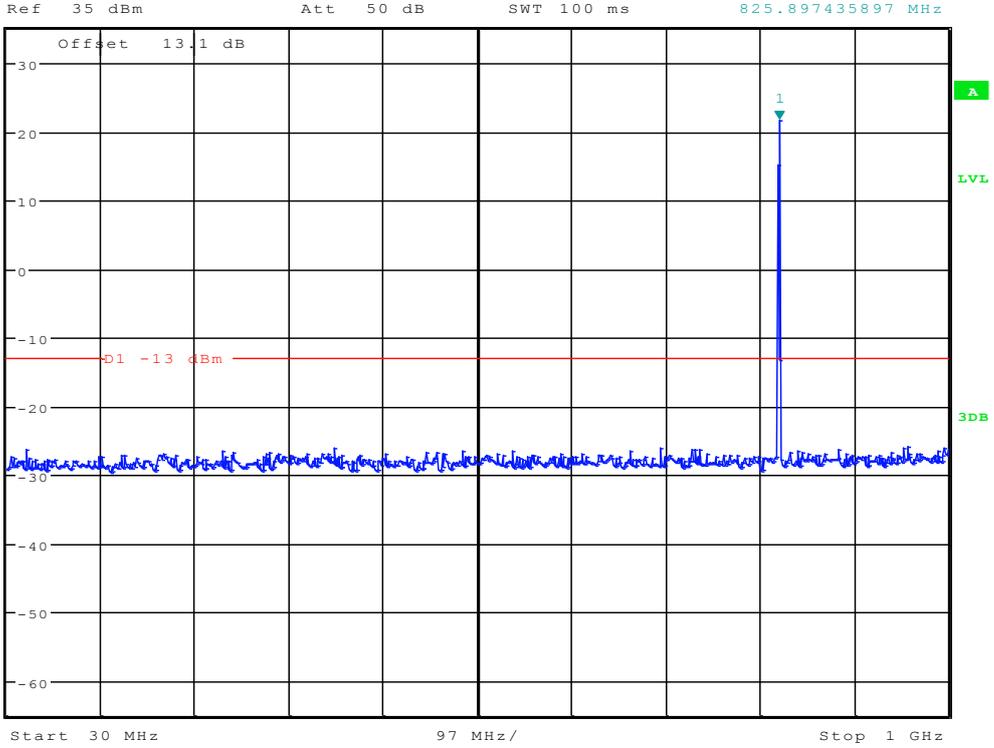
Offset 13.1 dB

1 PK
MAXH

D1 -13 dBm

A

LVL

3DB

Start 30 MHz   97 MHz/   Stop 1 GHz

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Date: 6.JUL.2012 15:15:30

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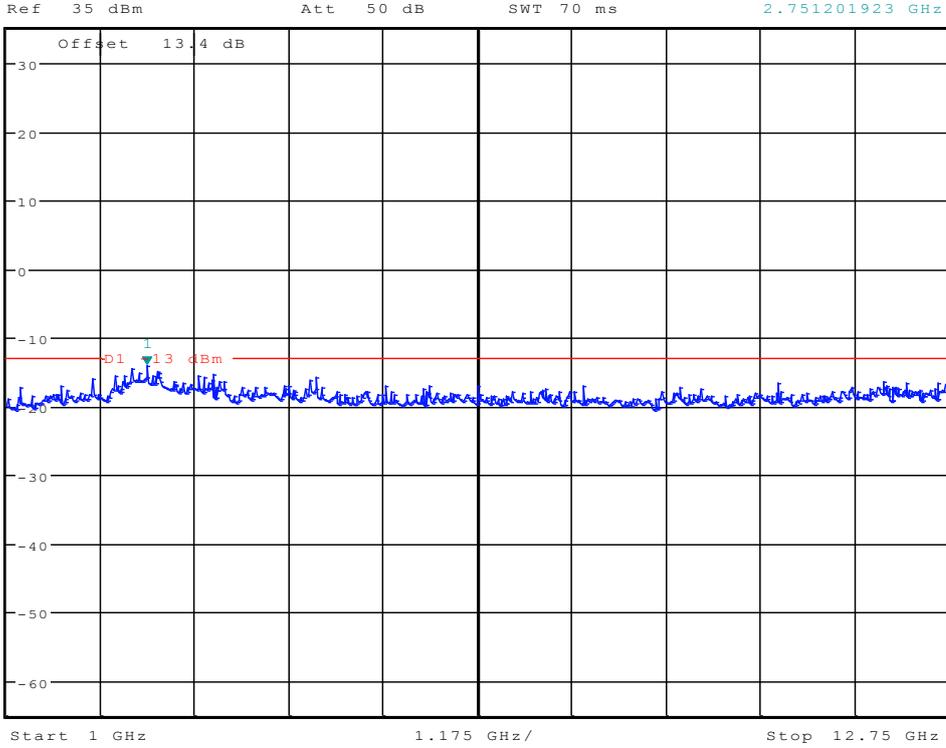
Channel 384

Ref 35 dBm   Att 50 dB   * RBW 1 kHz   Marker 1 [T1]
                                        * VBW 10 kHz   -36.87 dBm
                                        SWT 145 ms   10.129807692 kHz

Offset 12.9 dB

1 PK
MAXH

A

LVL

D1 -13 dBm

3DB

1

Start 9 kHz   14.1 kHz/   Stop 150 kHz

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Date: 6.JUL.2012 15:29:32

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```
                                        * RBW  100 kHz      Marker 1 [T1 ]
                                        * VBW  300 kHz              -0.59 dBm
        Ref   35 dBm          Att  50 dB    SWT 100 ms      838.333333333 MHz
```
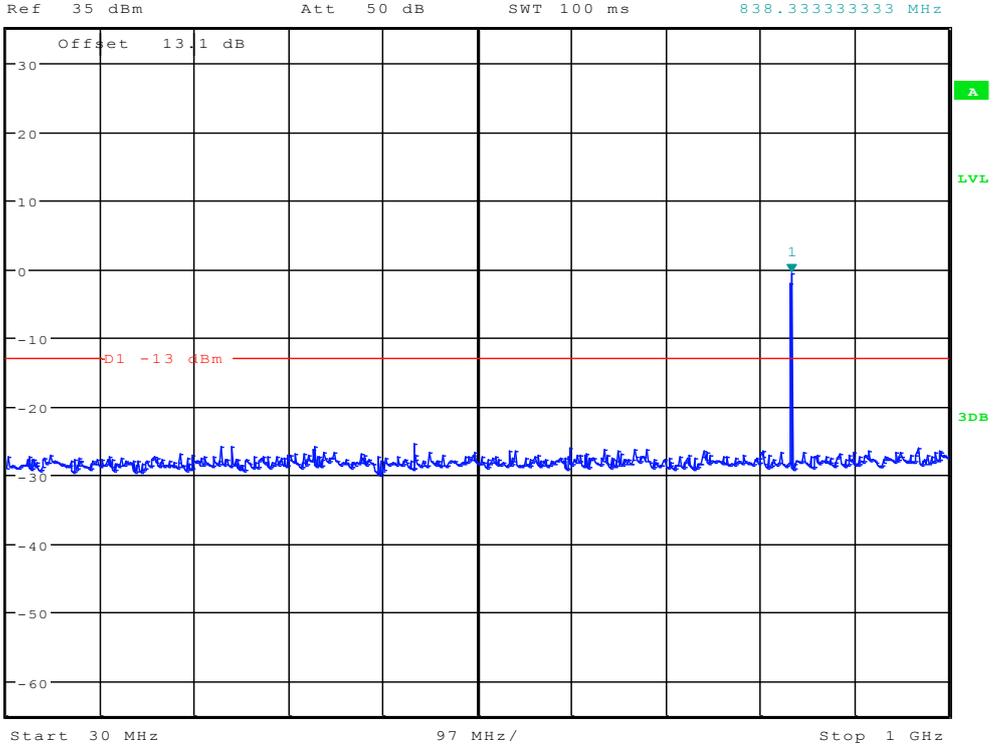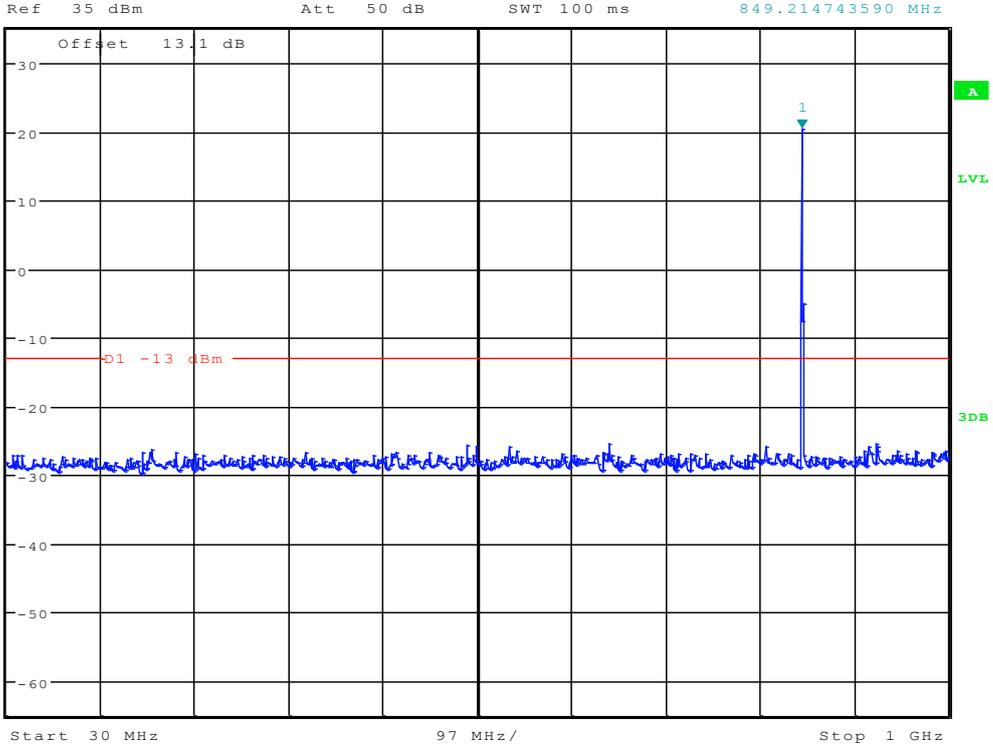


```
Date: 6.JUL.2012  15:29:57
```

```
                                          * RBW  1 MHz        Marker 1 [T1 ]
                                          * VBW  3 MHz                 -14.84 dBm
       Ref  35 dBm          Att  50 dB      SWT 70 ms         2.939503205 GHz
```



```
Start 1 GHz                    1.175 GHz/              Stop 12.75 GHz
```
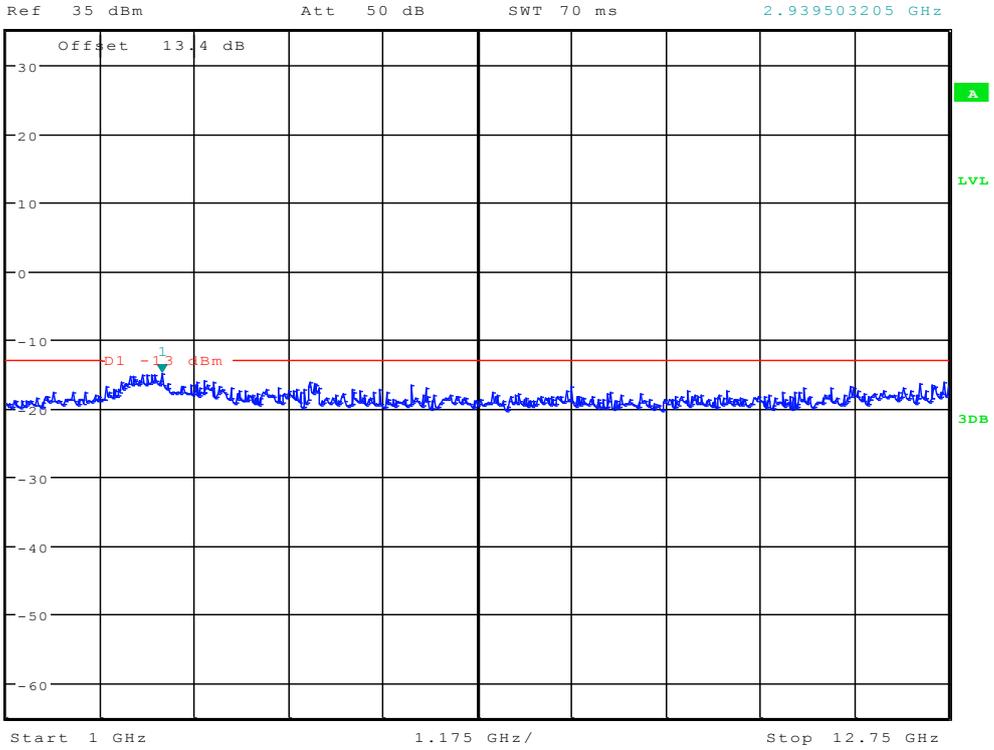
Date: 6.JUL.2012 15:30:23

Channel 777
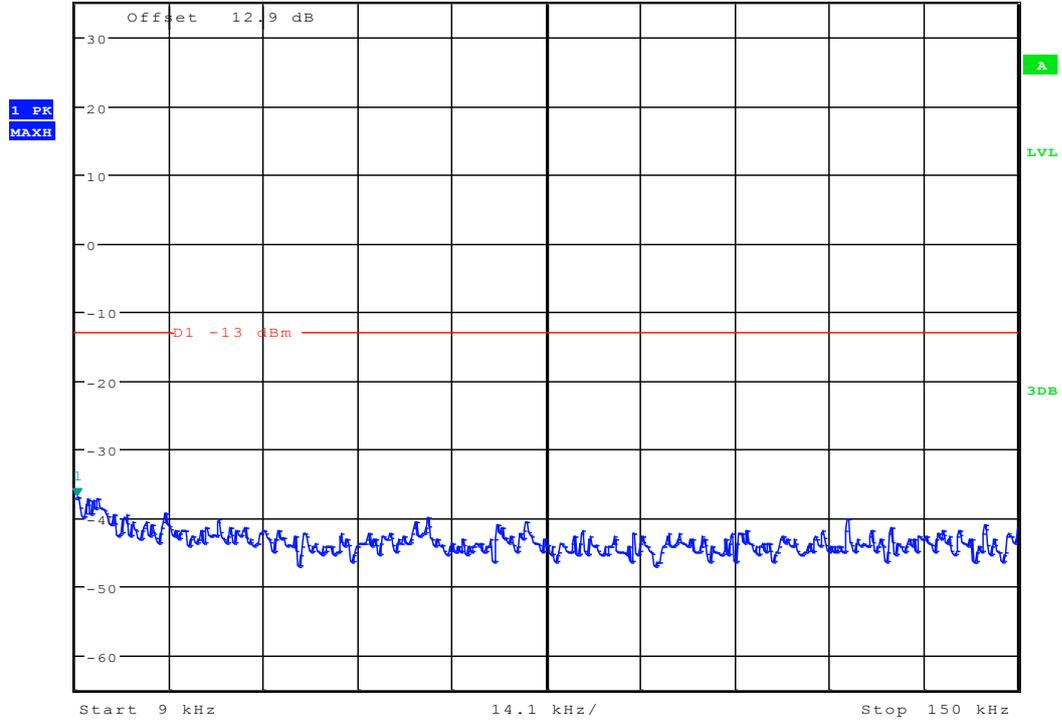
Date: 6.JUL.2012 15:14:30

Ref   35 dBm   Att   50 dB

* RBW 10 kHz   Marker 1 [T1]
* VBW 30 kHz   -30.87 dBm
  SWT 300 ms   150.000000000 kHz

Offset   13.9 dB

1 PK
MAXH

A

LVL

D1 -13 dBm

3DB

Start 150 kHz   2.985 MHz/   Stop 30 MHz

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Date: 6.JUL.2012 15:15:21

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Offset 13.4 dB

* RBW 1 MHz	Marker 1 [T1]
* VBW 3 MHz	-14.33 dBm
Ref 35 dBm Att 50 dB SWT 70 ms	2.638221154 GHz

1 PK
MAXH

A

LVL

D1 -13 dBm

3DB

Start 1 GHz   1.175 GHz/   Stop 12.75 GHz
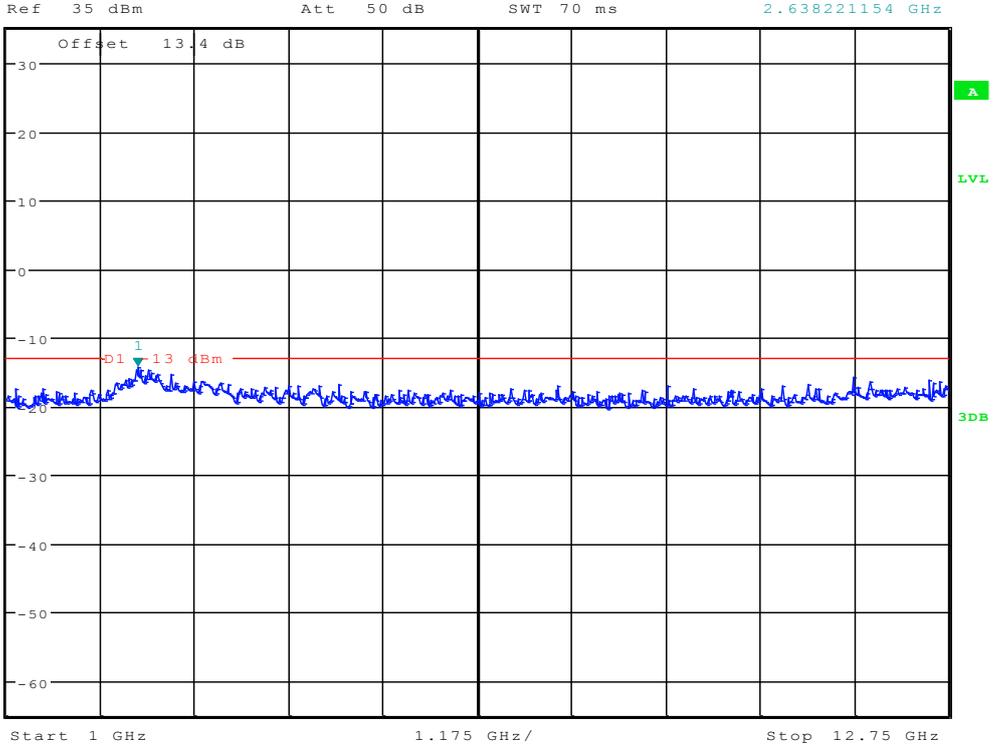
Date: 6.JUL.2012 15:30:31

Modulation: 8PSK
Channel 1013
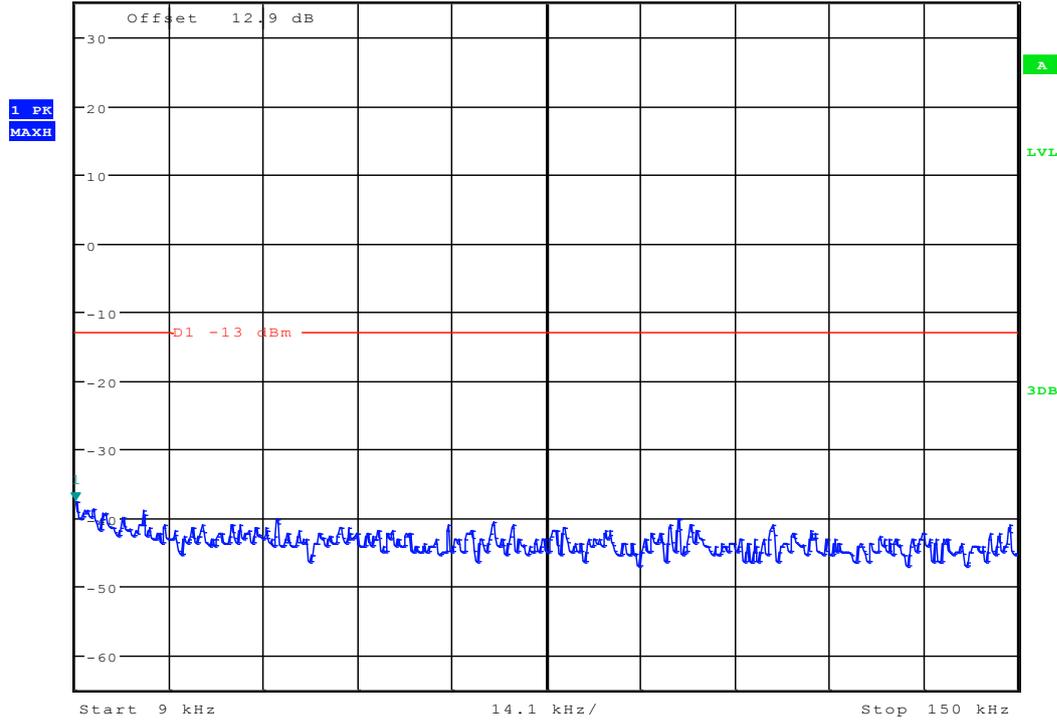
Date: 6.JUL.2012 15:30:40
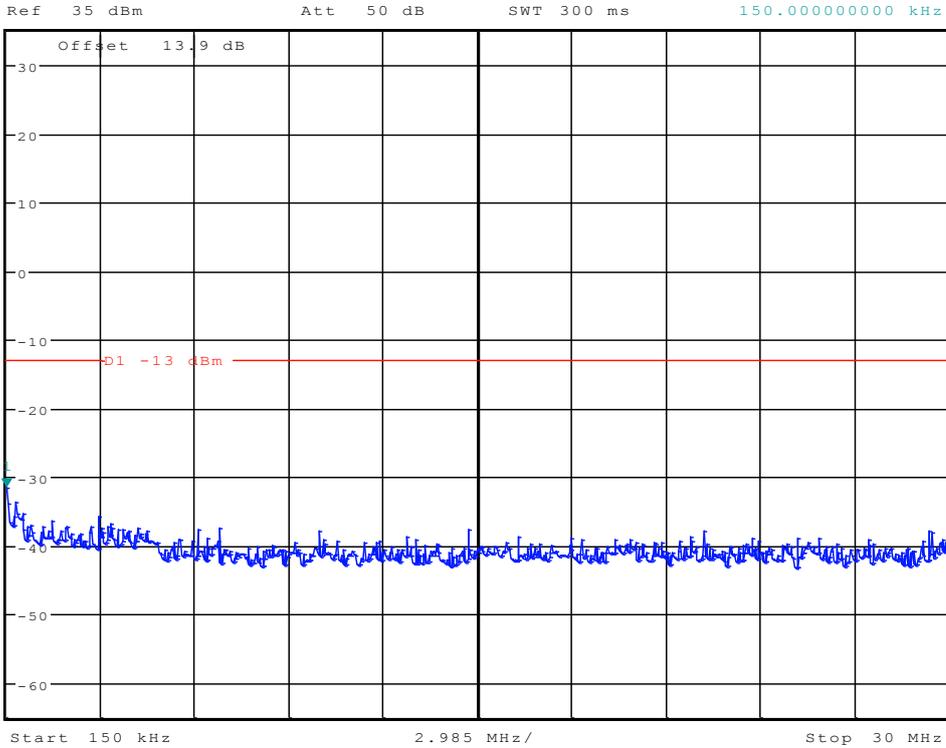
Date: 6.JUL.2012 15:31:06
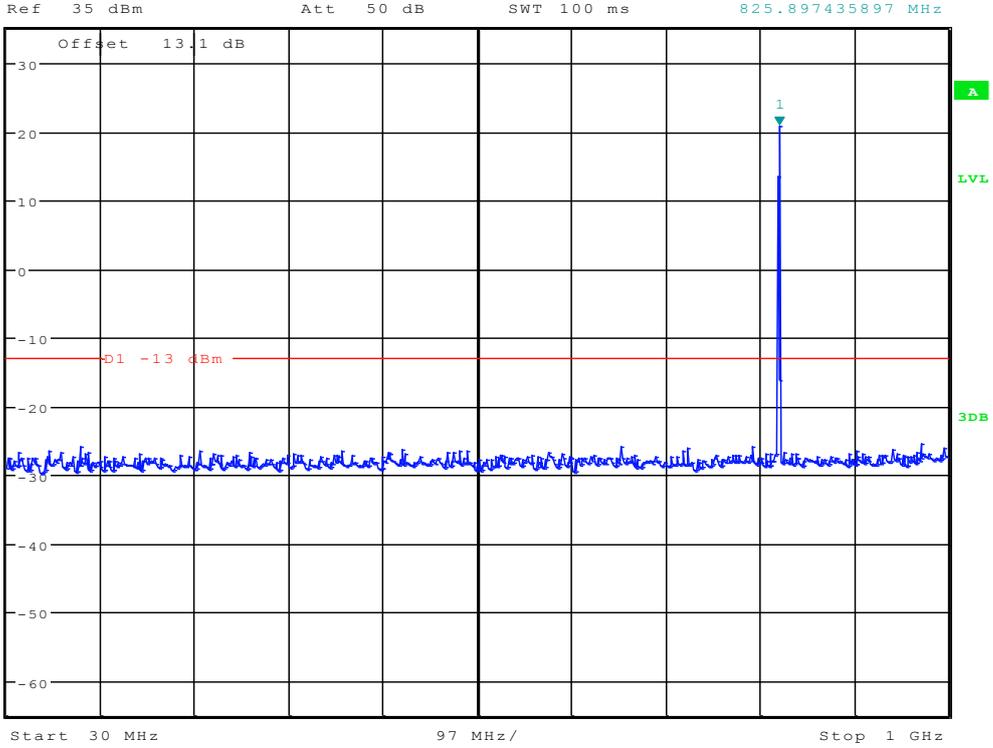
Date: 6.JUL.2012 15:31:31
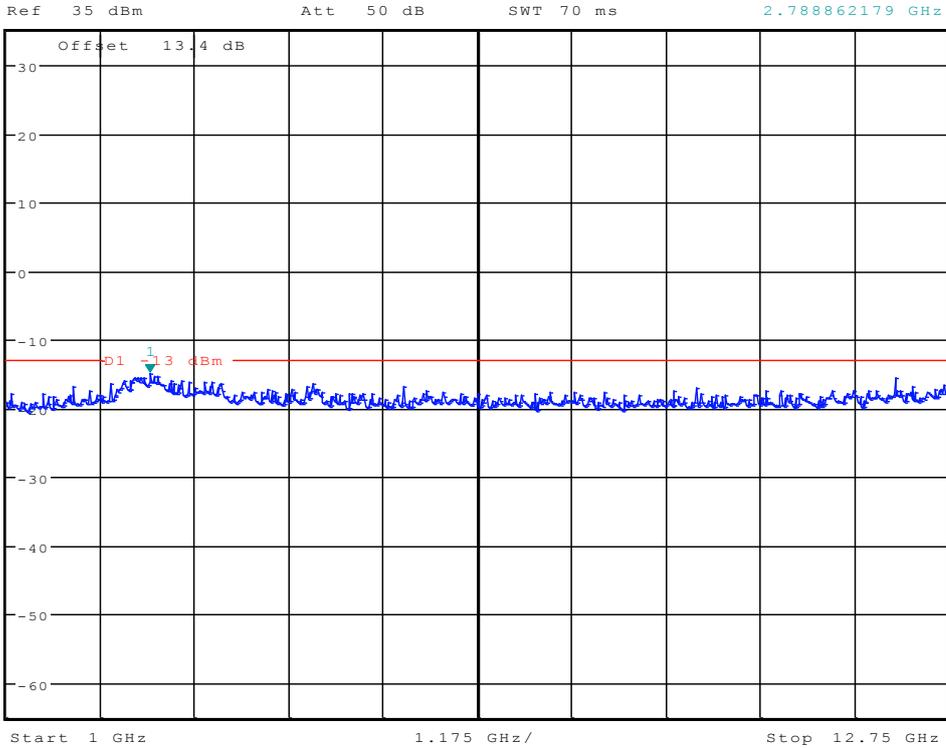
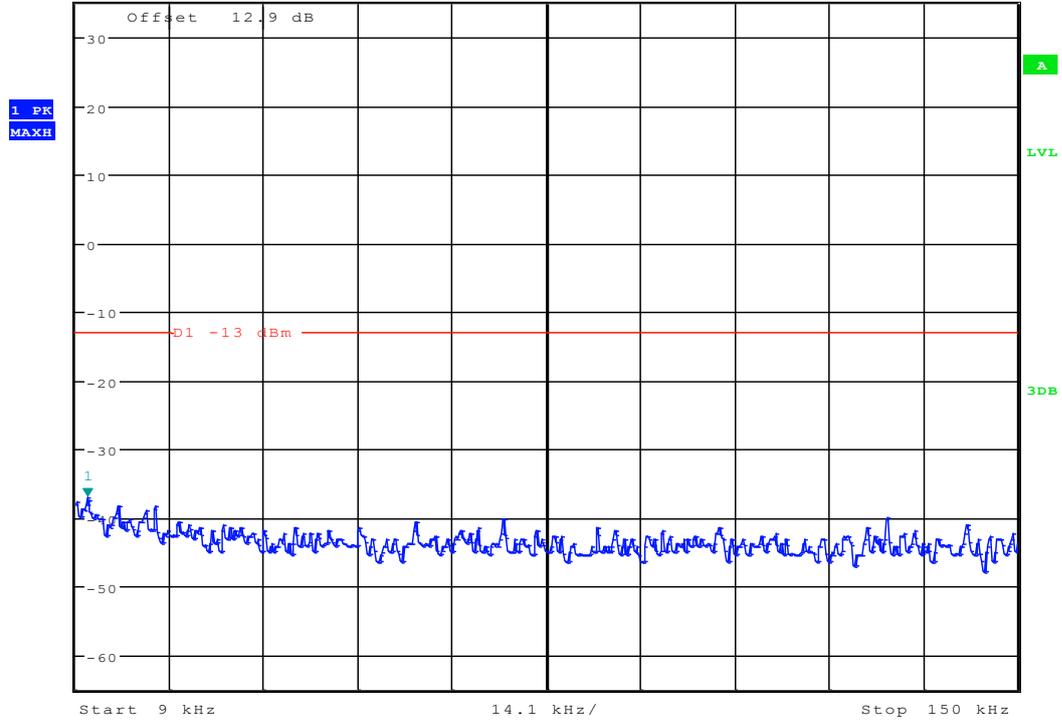Date: 6.JUL.2012 15:17:13

Channel 384

```
                                    * RBW  1 kHz        Marker 1 [T1 ]
                                    * VBW 10 kHz               -36.87 dBm
        Ref   35 dBm        Att  50 dB    SWT 145 ms     10.807692308 kHz
```
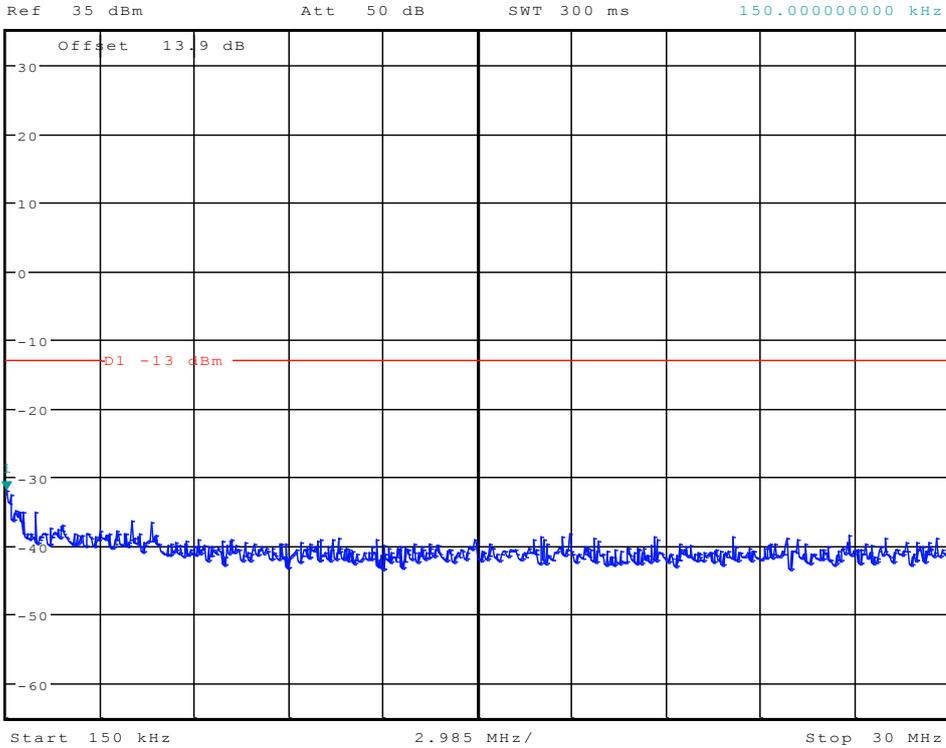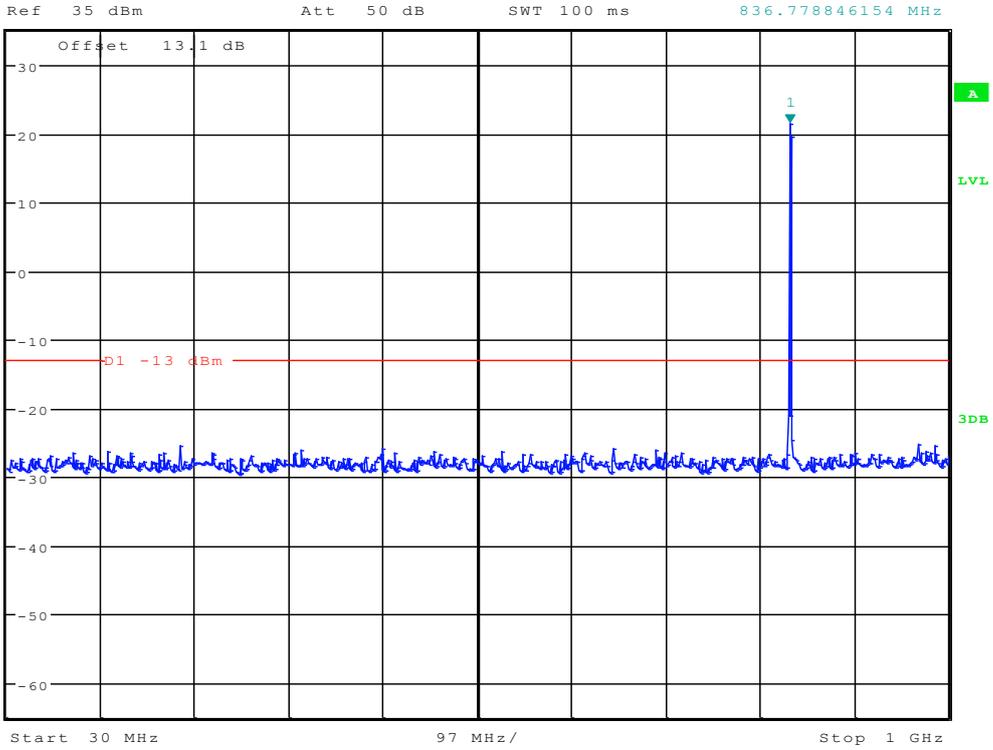

Date: 6.JUL.2012 15:30:49

```
                                    * RBW  10 kHz        Marker 1 [T1 ]
                                    * VBW  30 kHz                -31.89 dBm
     Ref   35 dBm        Att   50 dB   SWT  300 ms      150.000000000 kHz
```
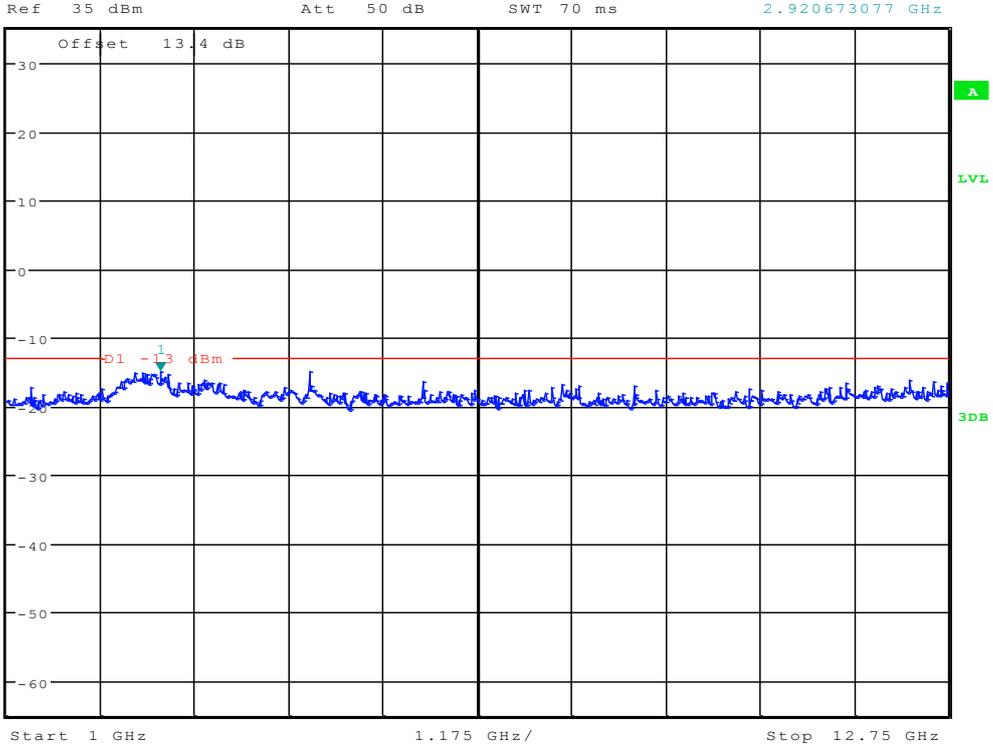


```
Start  150 kHz              2.985 MHz/              Stop  30 MHz
```

Date: 6.JUL.2012 15:16:29

```
                              * RBW  100 kHz     Marker 1 [T1 ]
                              * VBW  300 kHz              21.39 dBm
      Ref  35 dBm        Att  50 dB   SWT  100 ms    836.778846154 MHz
```



```
Date: 6.JUL.2012  15:31:40
```

```
                                         * RBW  1 MHz        Marker 1 [T1 ]
                                         * VBW  3 MHz                 -14.95 dBm
     Ref  35 dBm          Att  50 dB      SWT  70 ms         2.920673077 GHz
```



```
     Start  1 GHz              1.175 GHz/            Stop  12.75 GHz
```

Date: 6.JUL.2012 15:17:21

Channel 777

Date: 6.JUL.2012 15:30:57

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```
                                     * RBW  100 kHz      Marker 1 [T1 ]
                                     * VBW  300 kHz               21.73 dBm
      Ref   35 dBm          Att  50 dB   SWT 100 ms      849.214743590 MHz
```
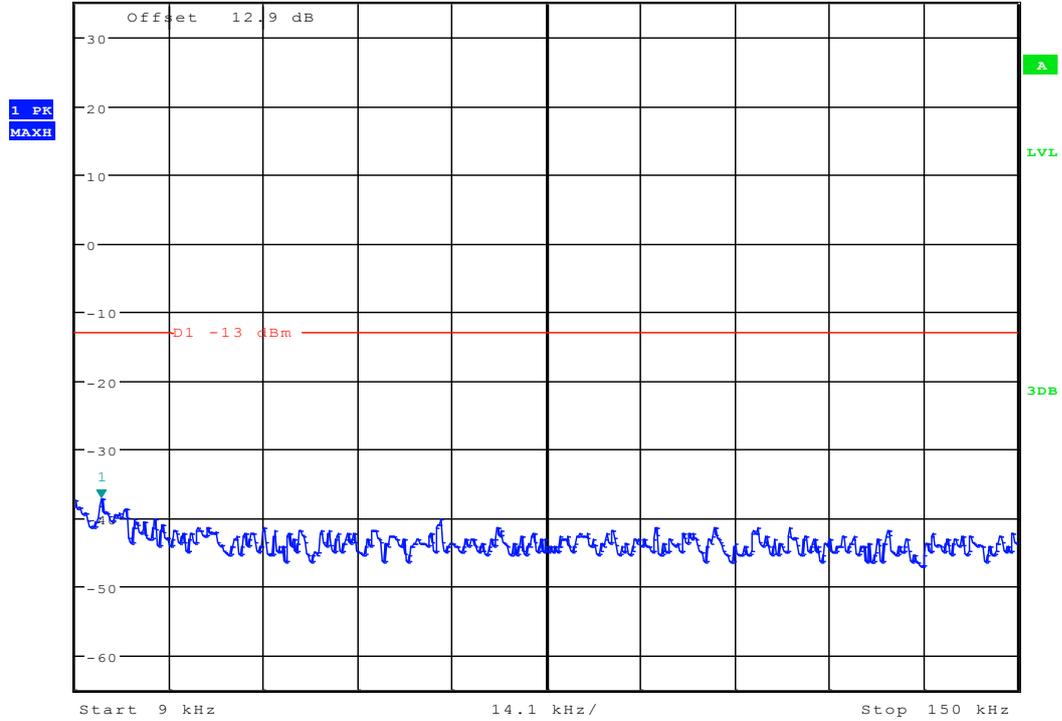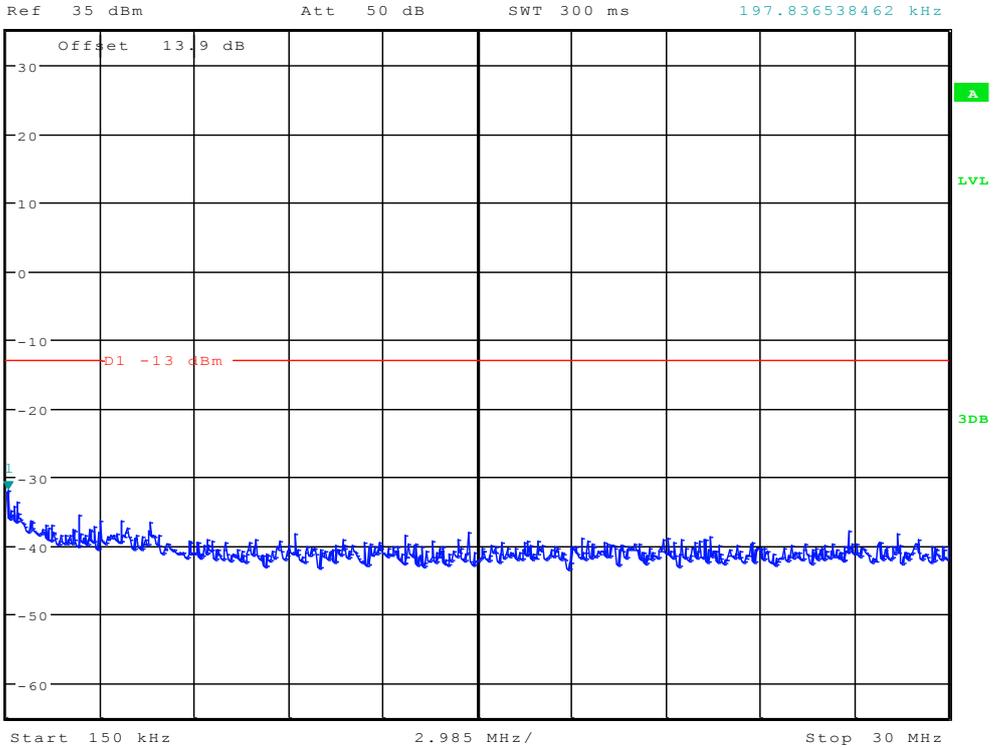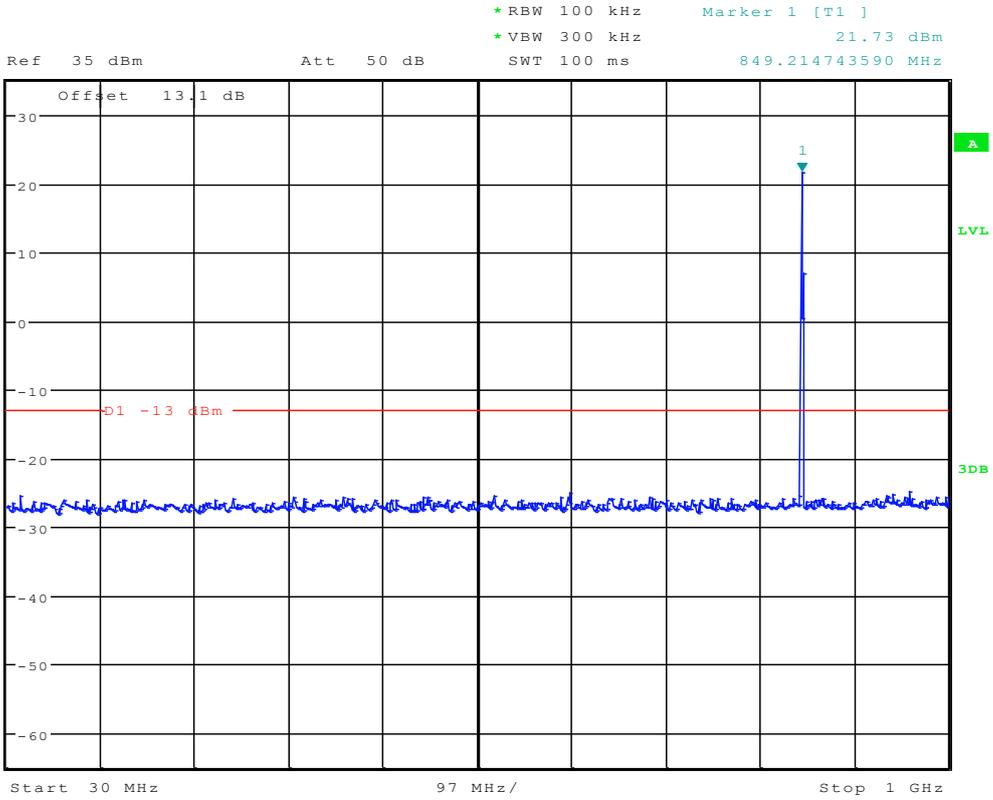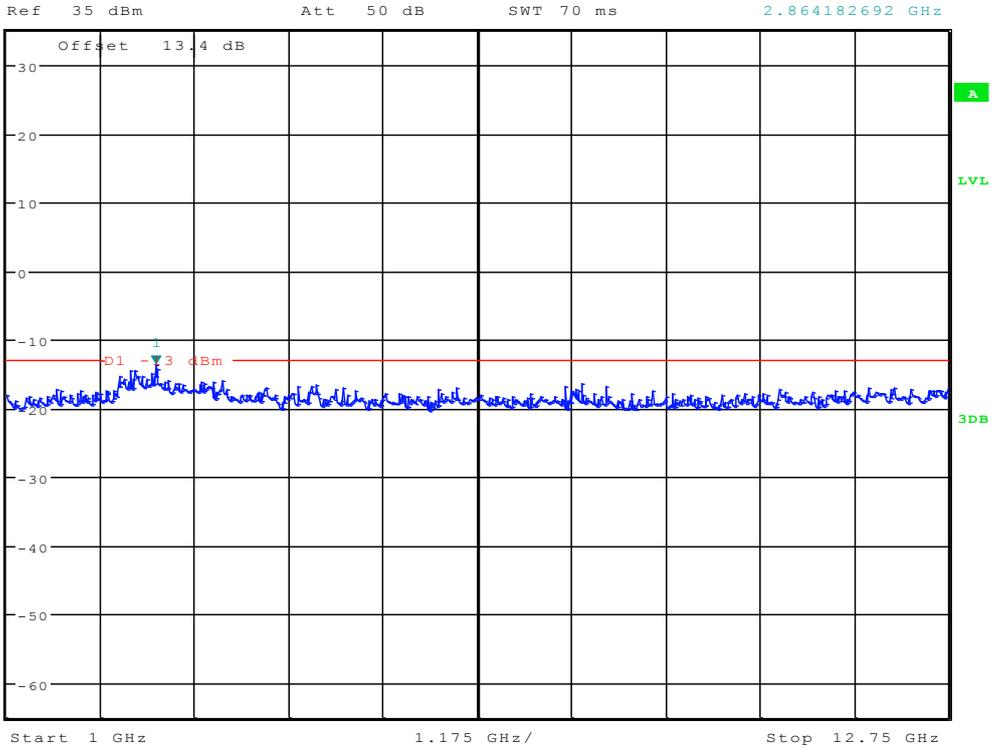

Date: 6.JUL.2012 15:33:01

```
                                          * RBW  1 MHz        Marker 1 [T1 ]
                                          * VBW  3 MHz                    -13.71 dBm
     Ref  35 dBm           Att  50 dB     SWT 70 ms            2.864182692 GHz
```
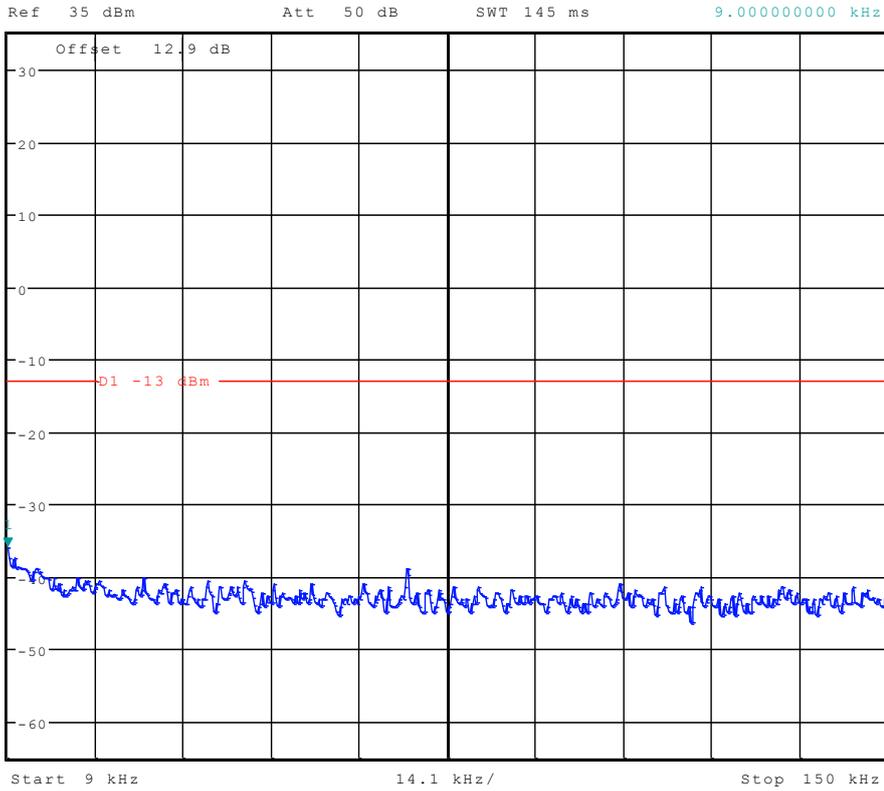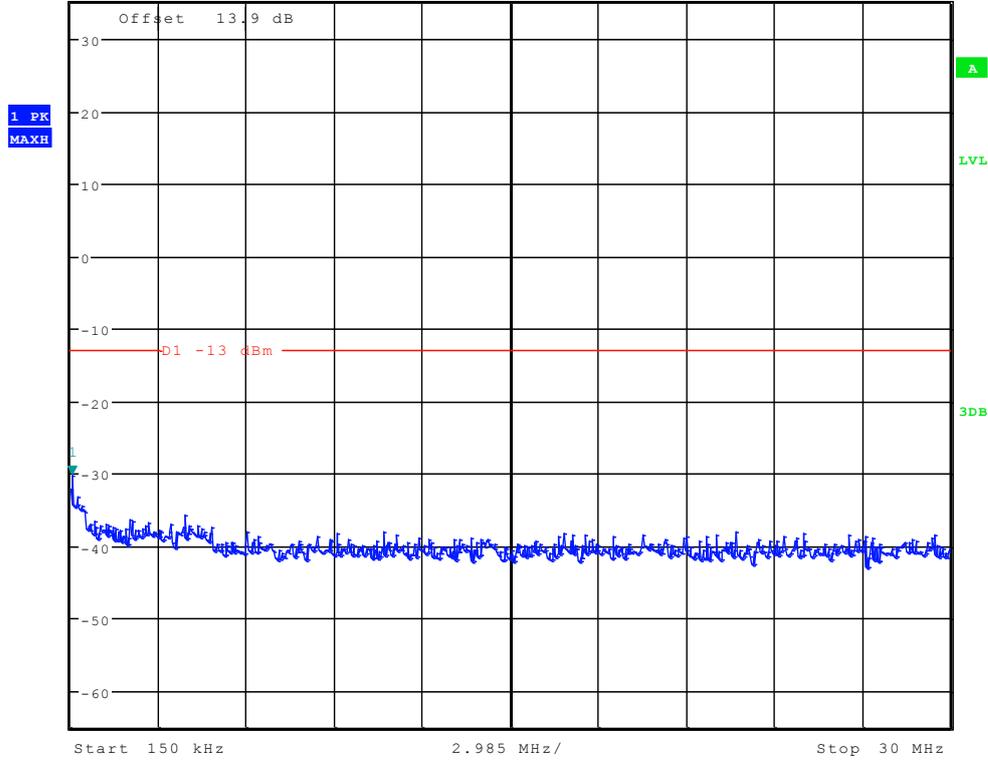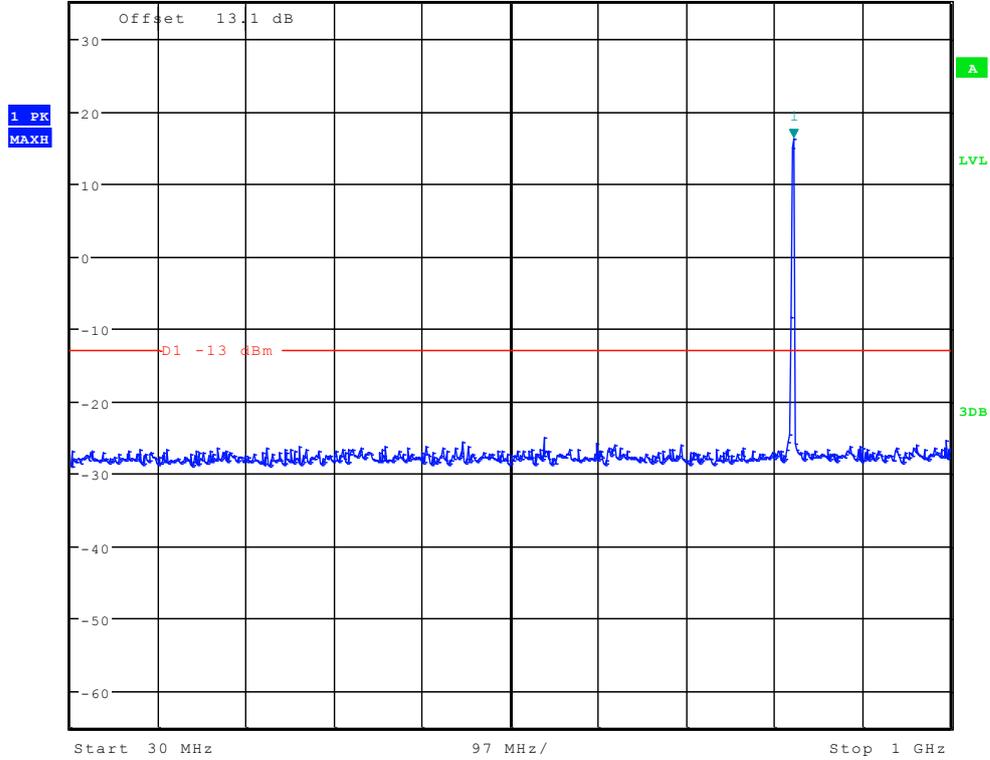


```
Date: 6.JUL.2012  15:33:27
```

TM4: WCDMA
Channel 4132

```
                                        * RBW  1 kHz        Marker 1 [T1 ]
                                        * VBW 10 kHz                 -35.92 dBm
         Ref   35 dBm          Att   50 dB    SWT  145 ms     9.000000000 kHz
```



```
Start  9 kHz                    14.1 kHz/                    Stop  150 kHz
```

Date: 5.JUL.2012 15:27:18

Date: 5.JUL.2012 15:28:02

```
                                            *RBW  100 kHz      Marker 1 [T1 ]
                                            *VBW  300 kHz              16.25 dBm
          Ref  35 dBm            Att  50 dB  SWT  100 ms      827.451923077 MHz
```
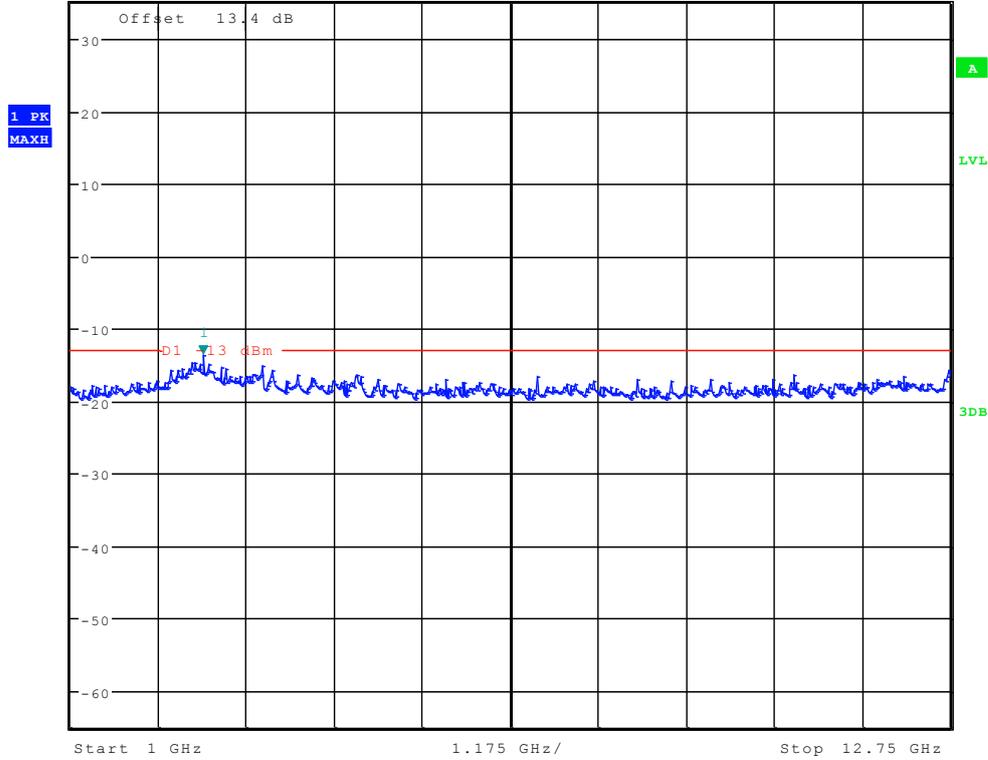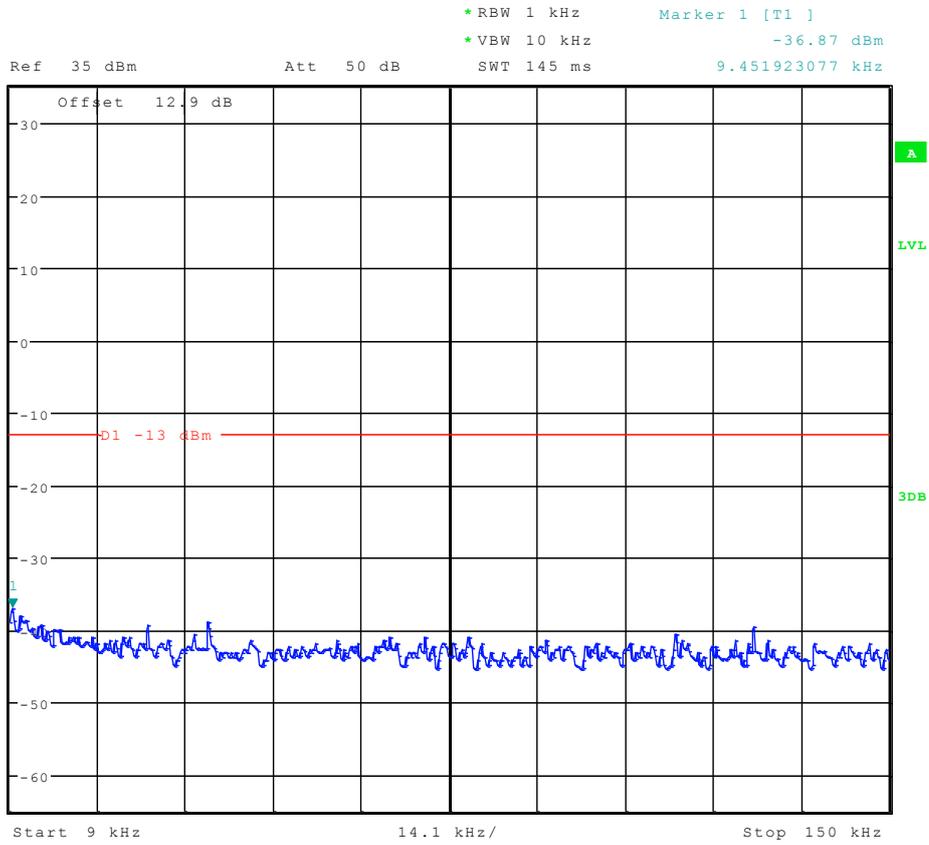


```
Date: 5.JUL.2012  15:28:45
```

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Channel 4182

```
                                      *RBW  1 kHz        Marker 1 [T1 ]
                                      *VBW  10 kHz              -36.87 dBm
    Ref  35 dBm           Att  50 dB   SWT  145 ms        9.451923077 kHz
```



```
Start  9 kHz              14.1 kHz/              Stop  150 kHz
```

Date: 5.JUL.2012 15:27:33

```
                                        *RBW 10 kHz      Marker 1 [T1 ]
                                        *VBW 30 kHz                -29.13 dBm
        Ref  35 dBm          Att  50 dB  SWT 300 ms       197.836538462 kHz
```
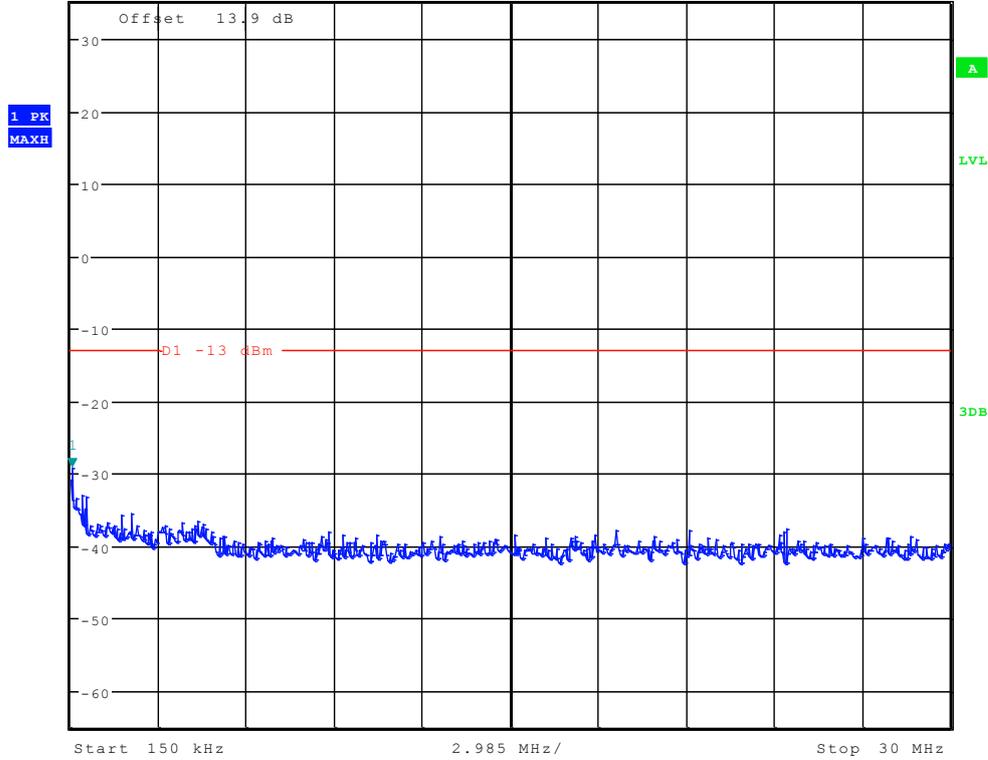
Date: 5.JUL.2012 15:28:16

```
                                              *RBW 100 kHz      Marker 1 [T1 ]
                                              *VBW 300 kHz              16.22 dBm
        Ref  35 dBm              Att  50 dB    SWT 100 ms       835.224358974 MHz
```
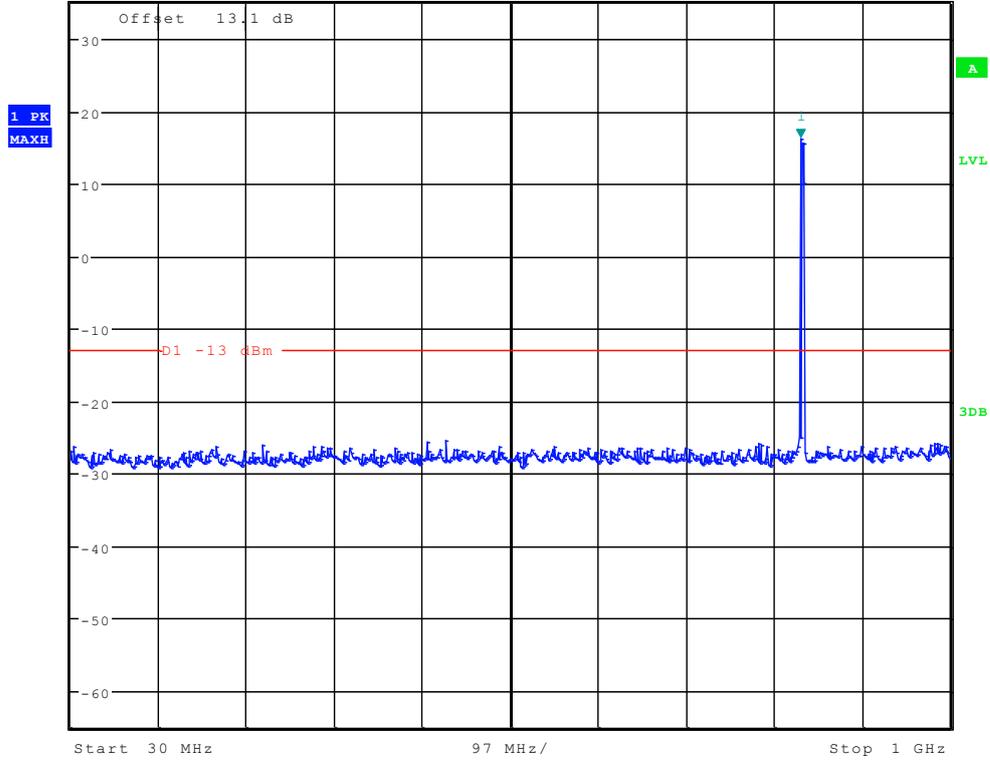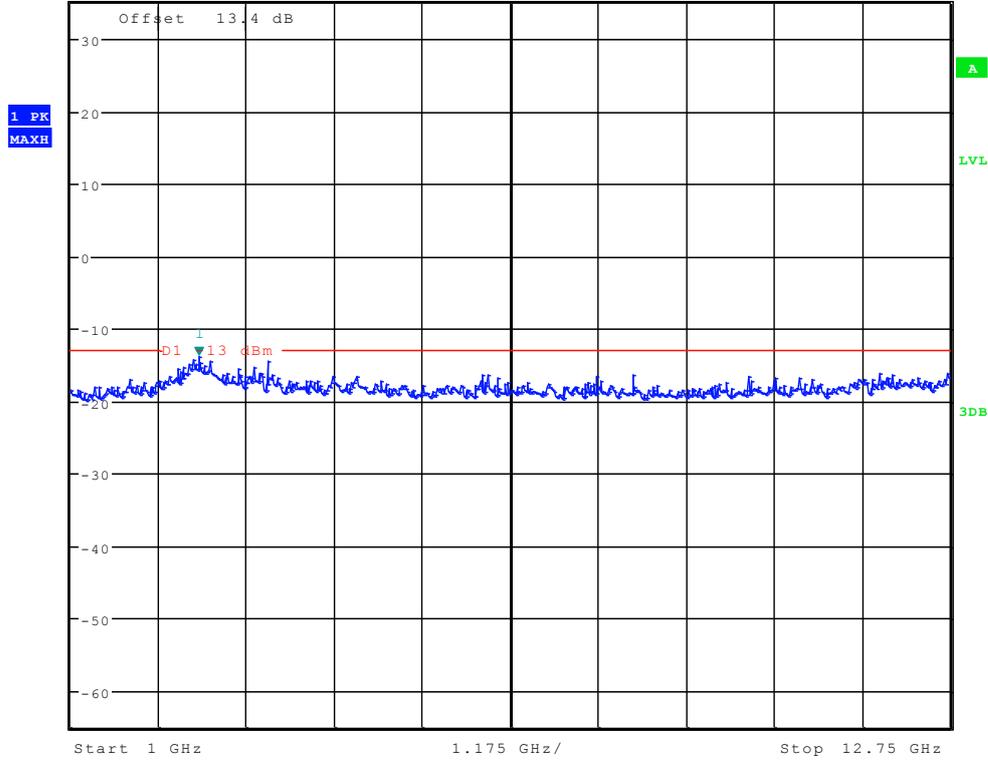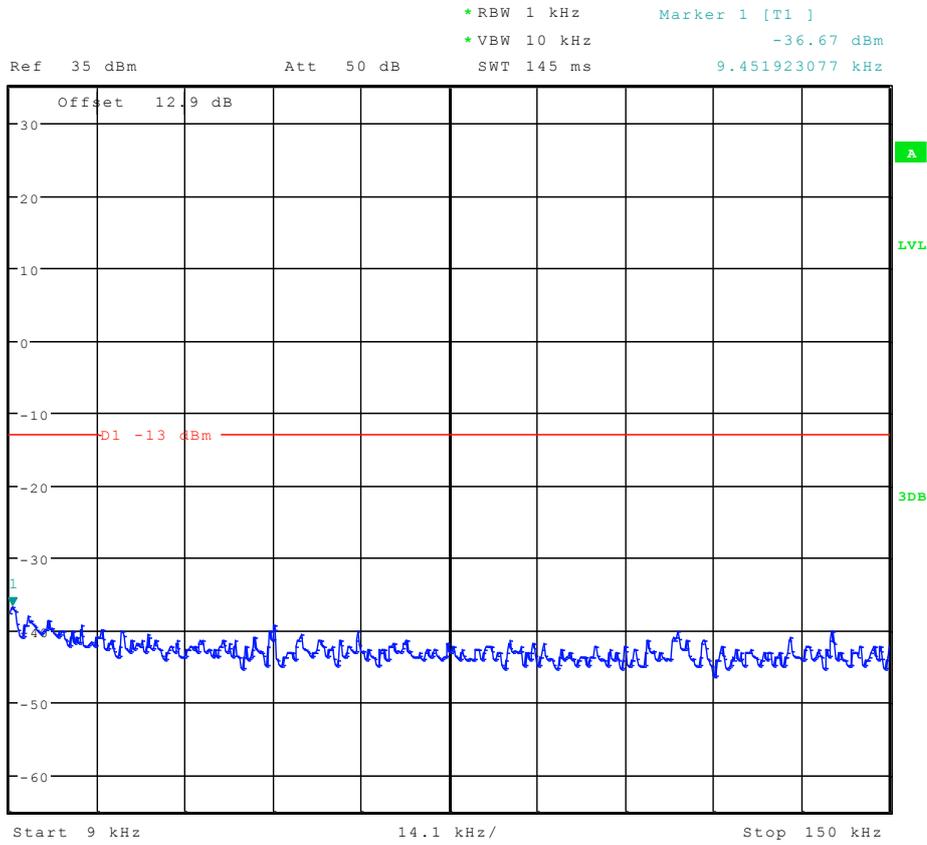


```
Date: 5.JUL.2012  15:29:00
```

```
                                        * RBW  1 MHz        Marker 1 [T1 ]
                                        * VBW  3 MHz              -13.78 dBm
      Ref   35 dBm            Att  50 dB   SWT  70 ms         2.713541667 GHz
```
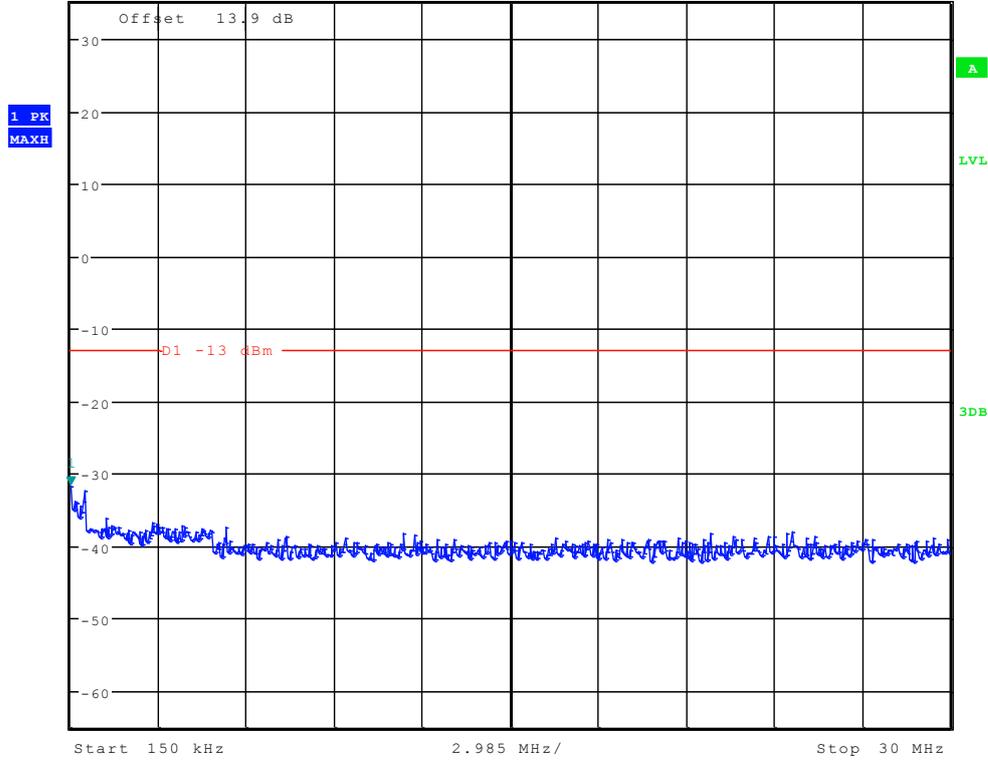


```
 Offset   13.4 dB
```

```
 Start  1 GHz              1.175 GHz/            Stop  12.75 GHz
```

Date: 5.JUL.2012 15:29:44

Channel 4233

```
                                          * RBW  1 kHz        Marker 1 [T1 ]
                                          * VBW  10 kHz              -36.67 dBm
        Ref  35 dBm            Att  50 dB   SWT 145 ms        9.451923077 kHz
```
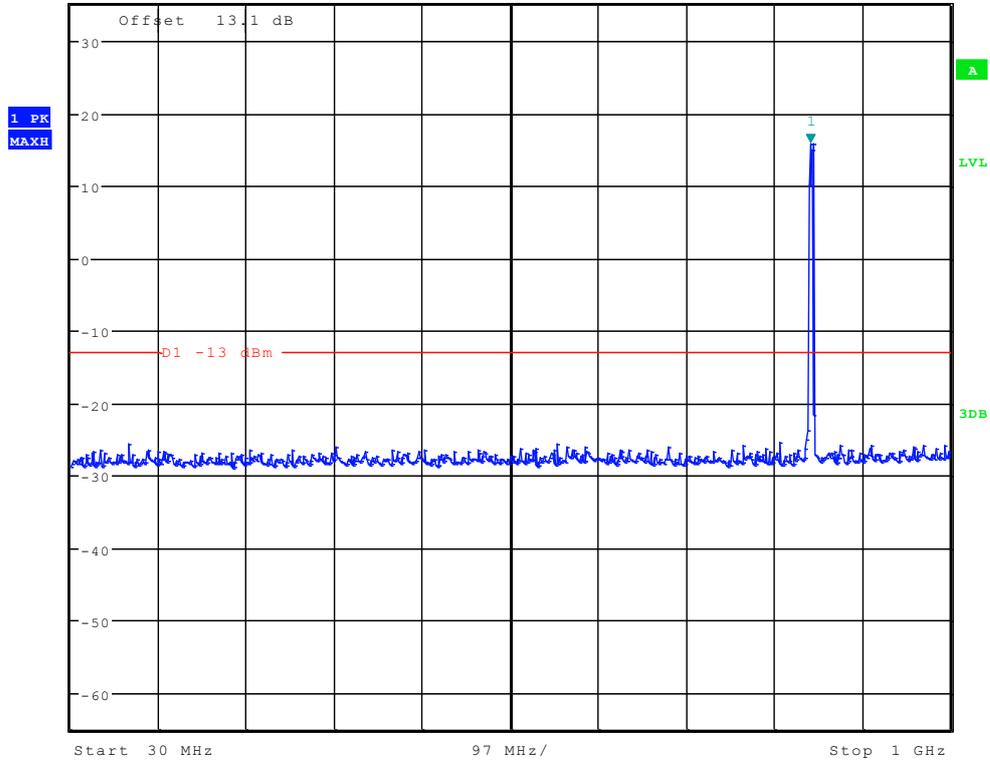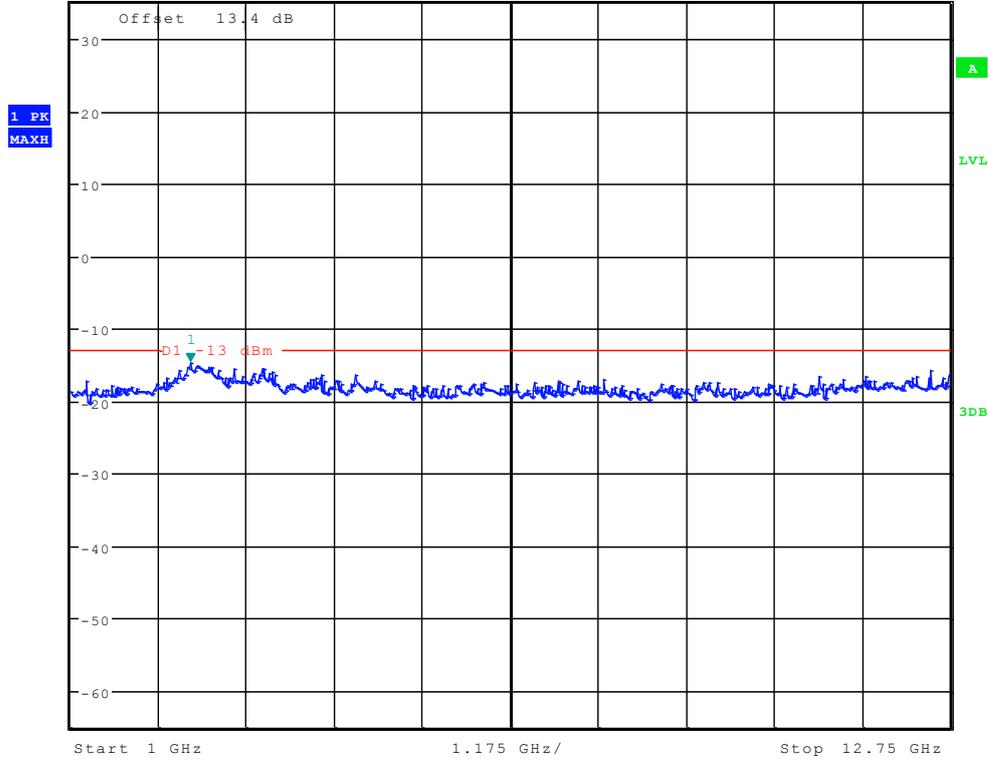


```
        Offset  12.9 dB
```

```
Start  9 kHz                14.1 kHz/                    Stop  150 kHz
```

Date: 5.JUL.2012 15:27:47

Ref 35 dBm   Att 50 dB

*RBW 10 kHz   Marker 1 [T1]
*VBW 30 kHz   -31.70 dBm
SWT 300 ms   150.000000000 kHz

Offset 13.9 dB

1 PK
MAXH

A

LVL

D1 -13 dBm

3DB

Start 150 kHz   2.985 MHz/   Stop 30 MHz

Date: 5.JUL.2012 15:28:31

Date: 5.JUL.2012 15:29:14

Date: 5.JUL.2012 15:29:58