Appendix A U-NII: Emission Bandwidth

1 (EBW)Result Table

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	26dB Emission Bandwidth [MHz]	Verdict
11A	36	5180	Ant 1	21.44	pass
	48	5240	Ant 1	21.42	pass
	52	5260	Ant 1	21.42	pass
	64	5320	Ant 1	21.44	pass
	100	5500	Ant 1	21.42	pass
	140	5700	Ant 1	21.46	pass
11N20	36	5180	Ant 1	21.80	pass
	48	5240	Ant 1	21.84	pass
	52	5260	Ant 1	21.92	pass
	64	5320	Ant 1	21.86	pass
	100	5500	Ant 1	21.92	pass
	140	5700	Ant 1	21.88	pass
11N40	38	5190	Ant 1	40.16	pass
	46	5230	Ant 1	40.12	pass
	54	5270	Ant 1	40.52	pass
	62	5310	Ant 1	40.18	pass
	102	5510	Ant 1	40.22	pass
	134	5670	Ant 1	40.16	pass
11AC20	36	5180	Ant 1	22.00	pass
	48	5240	Ant 1	21.98	pass
	52	5260	Ant 1	21.88	pass
	64	5320	Ant 1	21.94	pass
	100	5500	Ant 1	21.98	pass
	140	5700	Ant 1	21.96	pass
11AC40	38	5190	Ant 1	40.28	pass
	46	5230	Ant 1	40.20	pass
	54	5270	Ant 1	40.28	pass
	62	5310	Ant 1	40.20	pass
	102	5510	Ant 1	40.24	pass
	134	5670	Ant 1	40.36	pass
11AC80	42	5210	Ant 1	82.08	pass
	58	5290	Ant 1	82.24	pass
	106	5530	Ant 1	82.03	pass

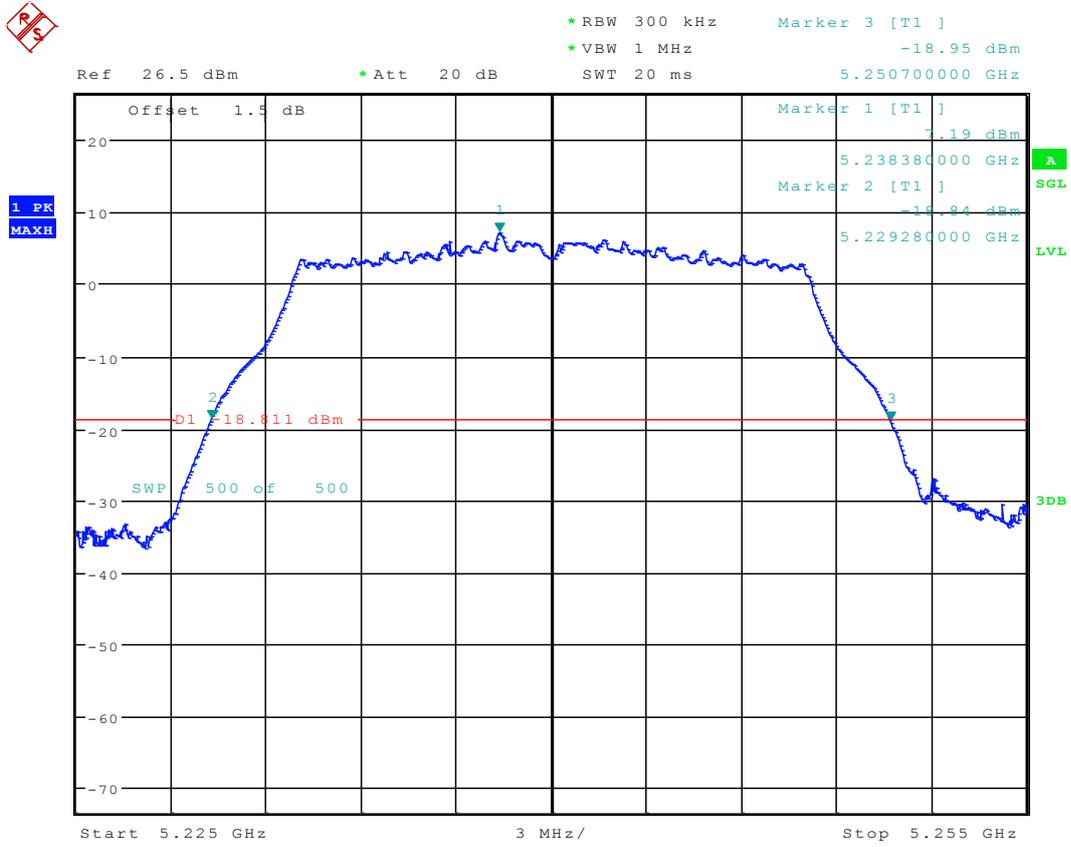| Test Mode	Test Channel	Frequency [MHz]	Ant	6dB Emission Bandwidth [MHz]	Verdict
11A	149	5745	Ant 1	16.36	pass
	165	5825	Ant 1	16.36	pass
11N20	149	5745	Ant 1	17.58	pass
	165	5825	Ant 1	16.60	pass
11N40	151	5755	Ant 1	36.10	pass
	159	5795	Ant 1	36.08	pass
11AC20	149	5745	Ant 1	17.60	pass
	165	5825	Ant 1	17.60	pass
11AC40	151	5755	Ant 1	36.08	pass
	159	5795	Ant 1	36.32	pass
11AC80	155	5775	Ant 1	75.25	pass

2 Test Plot for 26dBEmission Bandwidth

2.1 11A_36 Ant 1
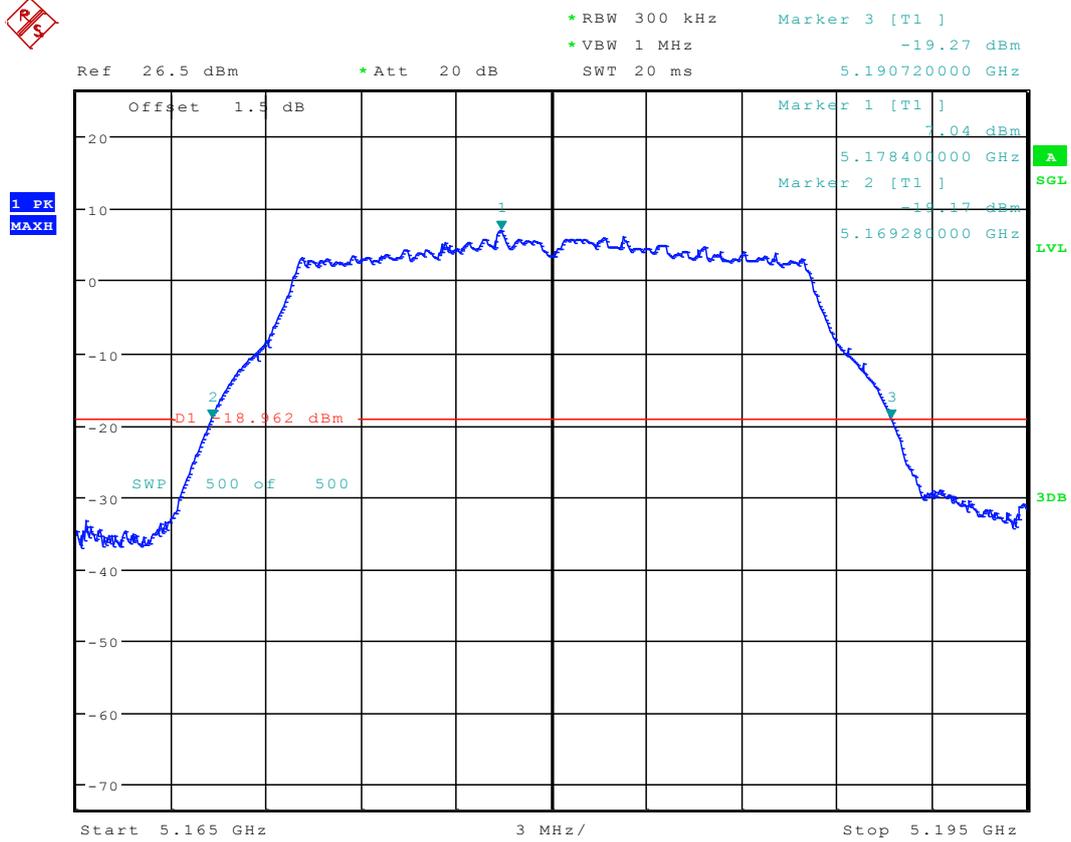
Date: 26.SEP.2016 20:52:48

2.2 11A_48 Ant 1

Date: 26.SEP.2016 20:59:58

2.3 11A_52 Ant 1


```
                                    * RBW  300 kHz        Marker 3 [T1 ]
                                    * VBW  1 MHz                -19.15 dBm
        Ref   26.5 dBm      * Att   20 dB    SWT  20 ms    5.270700000 GHz

           Offset  1.5 dB                           Marker 1 [T1 ]
    -20                                                       6.94 dBm
                                                    5.258380000 GHz     A
                                                    Marker 2 [T1 ]     SGL
 1 PK -10                                                   -19.14 dBm
 MAXH                                                5.249280000 GHz   LVL
                1
      0

     -10

     -20   D1  -19.064 dBm                                            3DB
                2                                       3
     -30   SWP  500 of  500

     -40

     -50

     -60

     -70

        Start  5.245 GHz              3 MHz/              Stop  5.275 GHz
```
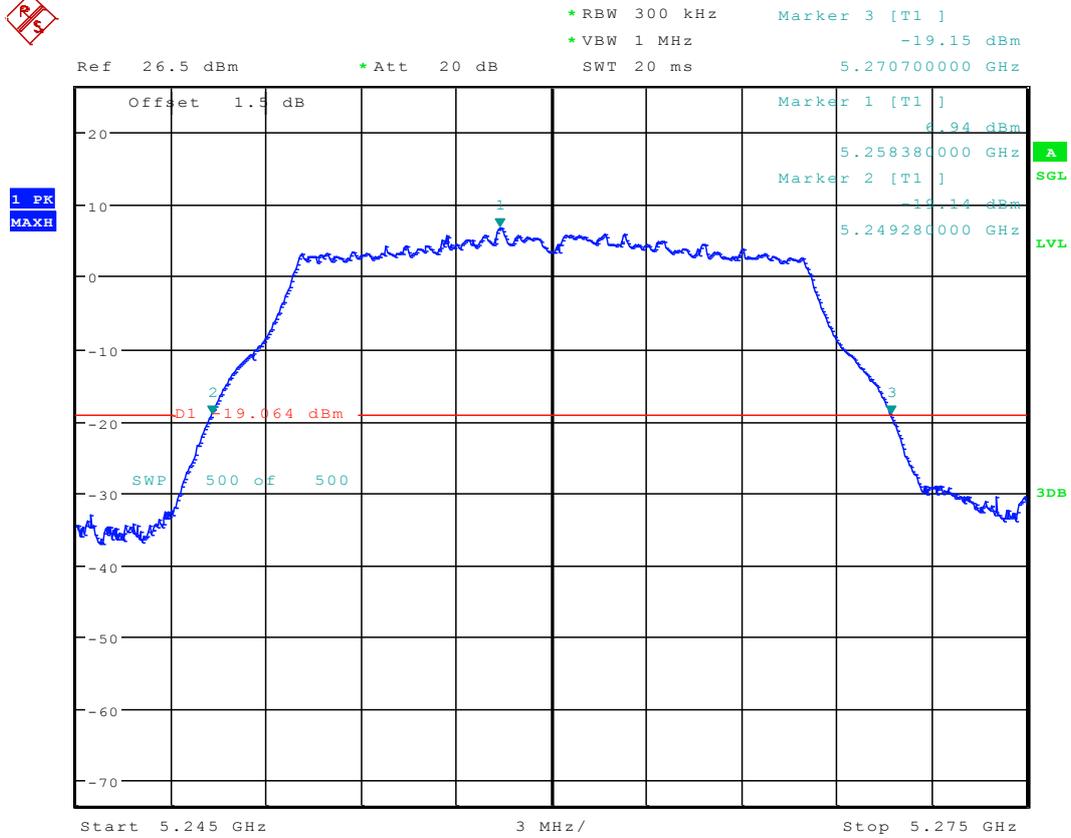
Date: 26.SEP.2016 21:06:15

2.4 11A_64 Ant 1


```
                                         *RBW  300 kHz      Marker 3 [T1 ]
                                         *VBW  1 MHz                  -19.29 dBm
            Ref  26.5 dBm      *Att  20 dB    SWT  20 ms     5.330720000 GHz
             Offset  1.5 dB                            Marker 1 [T1 ]
          -20                                                    7.00 dBm
                                                      5.318380000 GHz    A
                                                      Marker 2 [T1 ]    SGL
    1 PK  -10                  1                             -16.08 dBm
    MAXH                                                5.309280000 GHz  LVL
            0
          -10
                  2                                               3
          D1  -19.001 dBm                                                 3DB
          -20
            SWP  500 of  500
          -30
          -40
          -50
          -60
          -70
            Start  5.305 GHz           3 MHz/           Stop  5.335 GHz
```
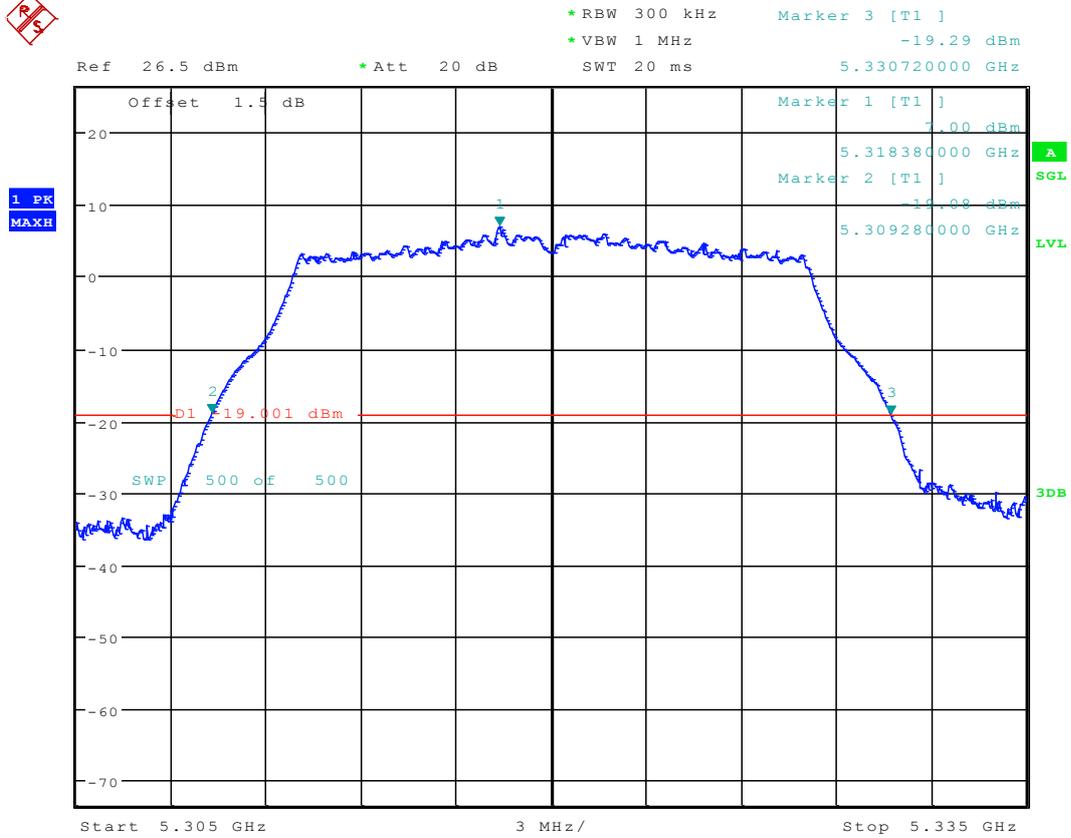
Date: 26.SEP.2016 21:11:00

2.5 11A_100 Ant 1


```
                                        * RBW  300 kHz      Marker 3 [T1 ]
                                        * VBW  1 MHz                    -18.85 dBm
Ref  26.5 dBm            * Att  20 dB    SWT  20 ms          5.510700000 GHz
```
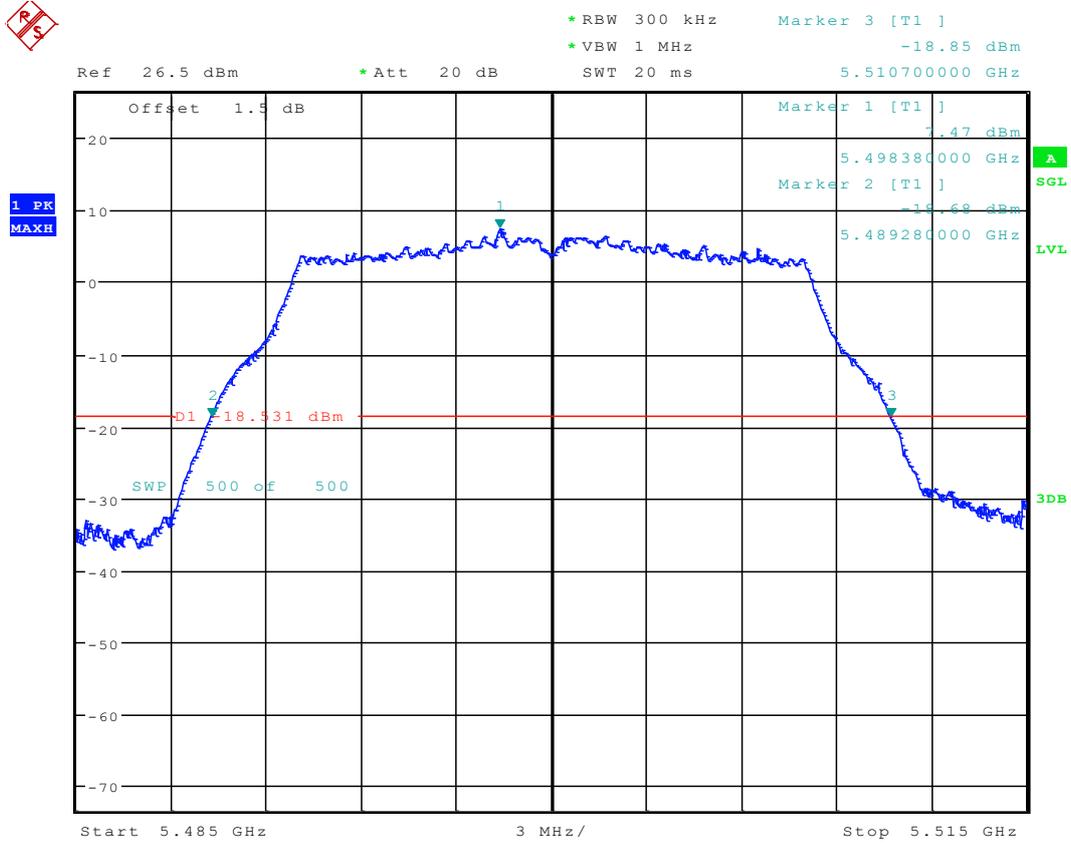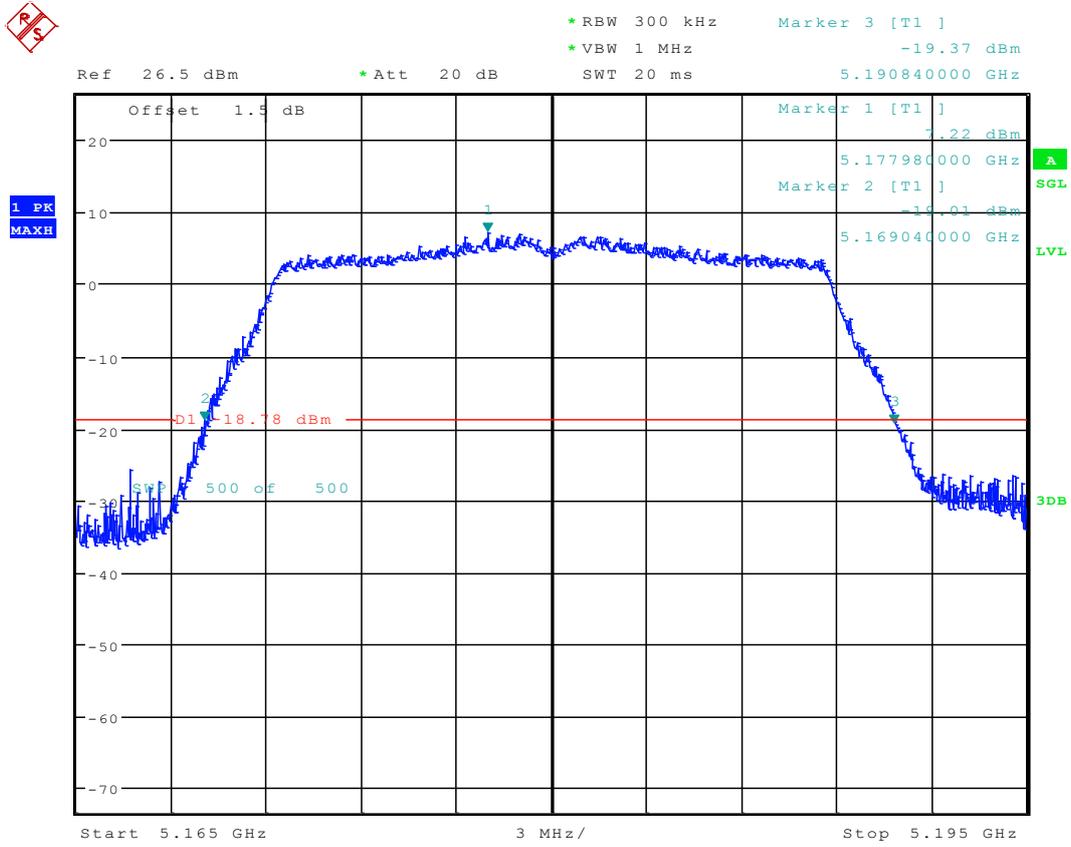
Date: 26.SEP.2016 21:23:02

2.6   11A_140 Ant 1
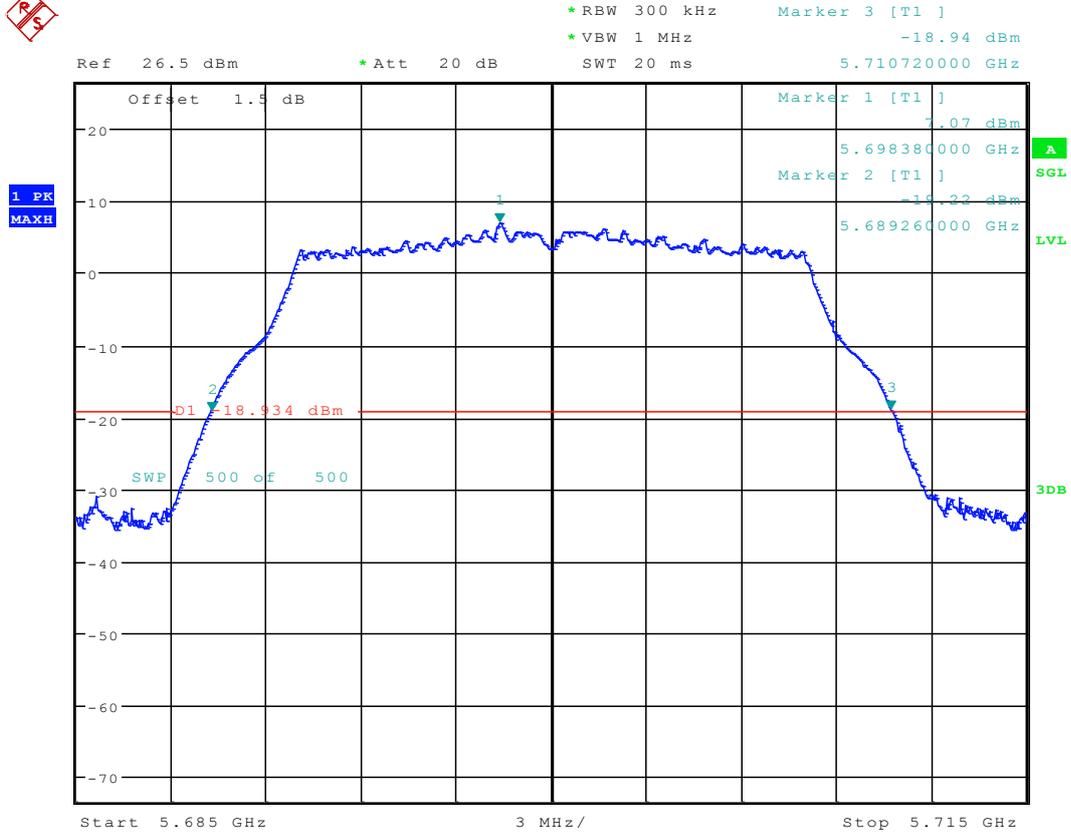
Date: 26.SEP.2016 21:28:16

2.7   11N20_36 Ant 1

Date: 27.SEP.2016 12:08:45

2.8   11N20_48 Ant 1


```
                                          * RBW  300 kHz      Marker 3 [T1 ]
                                          * VBW  1 MHz                -19.60 dBm
         Ref   26.5 dBm      * Att  20 dB   SWT  20 ms        5.250920000 GHz

            Offset   1.5 dB                              Marker 1 [T1 ]
        -20                                                      6.67 dBm
                                                         5.240900000 GHz      A
        -10                                                                   SGL
                                                         Marker 2 [T1 ]
                                                    1          -20.95 dBm
          0                                              5.229080000 GHz      LVL

        --10

        --20   D1 -19.326 dBm

        SWP  500 of   500
        -30                                                                   3DB

        --40

        --50

        --60

        --70

        Start 5.225 GHz              3 MHz/              Stop  5.255 GHz
```
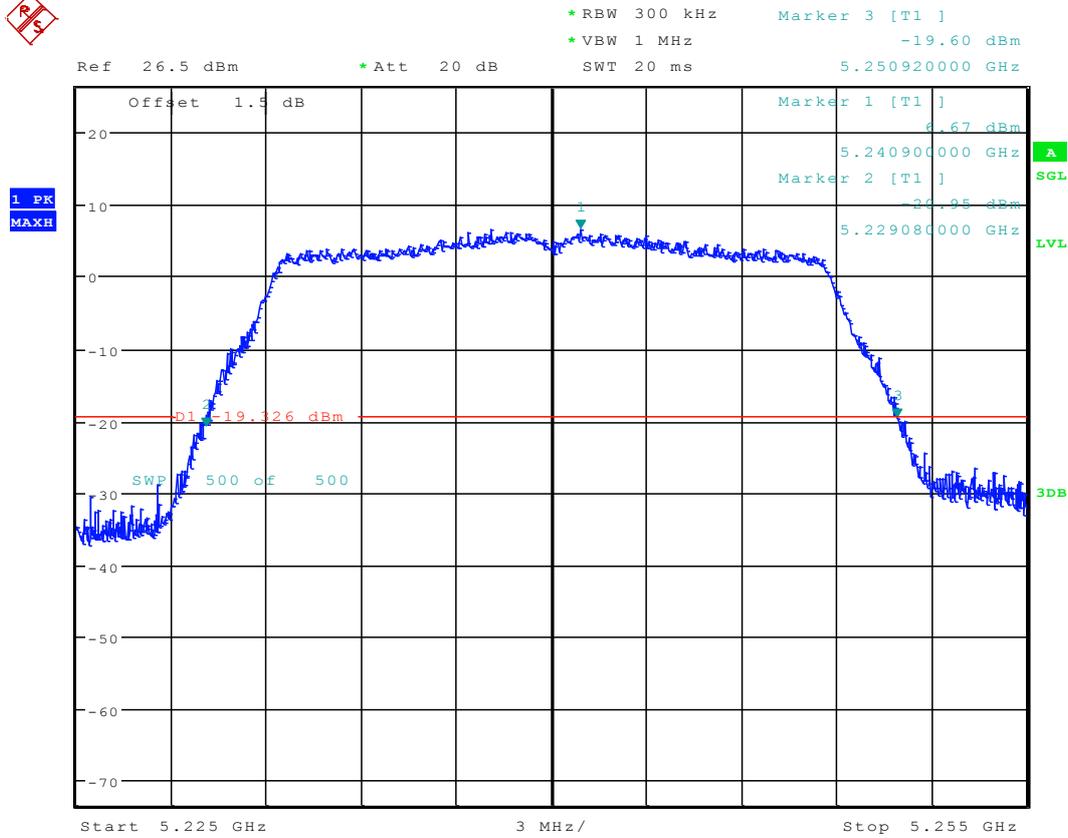
Date: 27.SEP.2016 12:13:48

2.9   11N20_52 Ant 1
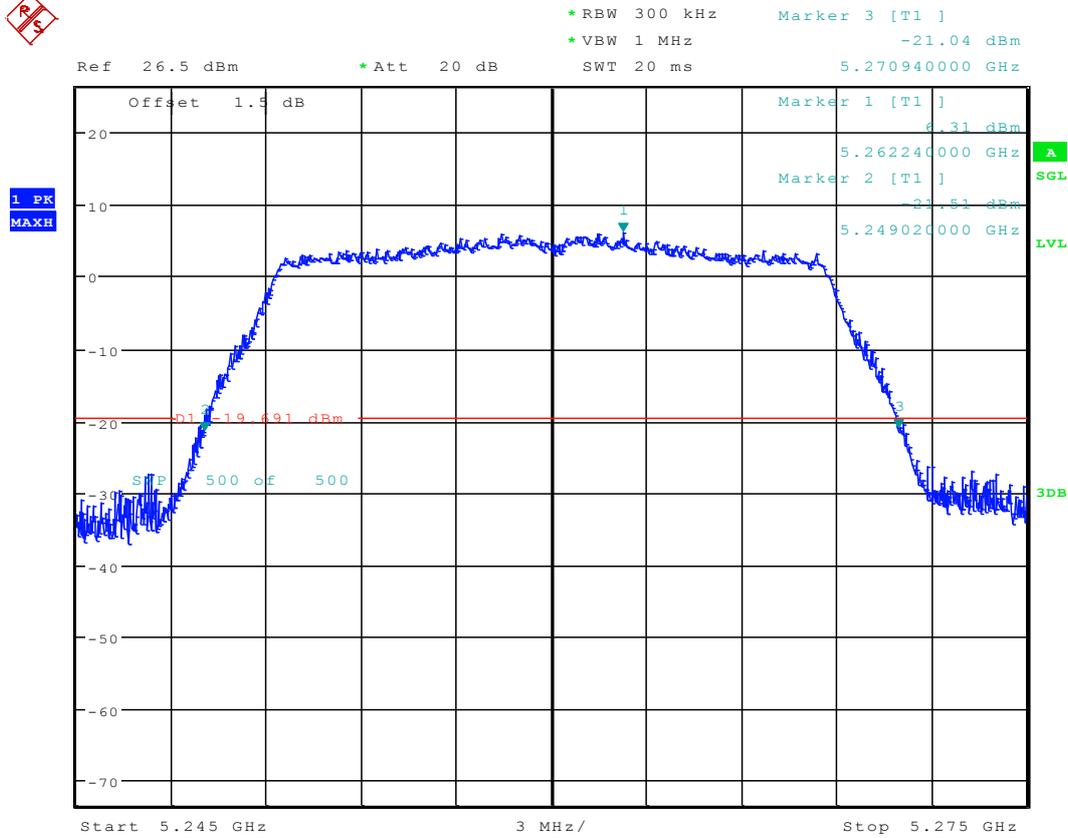
Date: 27.SEP.2016 12:23:54

2.10   11N20_64 Ant 1


```
                                    * RBW  300 kHz       Marker 3 [T1 ]
                                    * VBW  1 MHz                -20.57 dBm
Ref  26.5 dBm           * Att  20 dB    SWT  20 ms       5.330960000 GHz
     Offset  1.5 dB                                 Marker 1 [T1 ]
  20                                                         6.40 dBm
                                                    5.318020000 GHz    A
                                                    Marker 2 [T1 ]     SGL
  10                          1                             -21.02 dBm
                                                    5.309100000 GHz    LVL
   0
 -10
       D1 -19.4 dBm
 -20
       SWP  500 of  500
 -30                                                                   3DB
 -40
 -50
 -60
 -70
Start  5.305 GHz            3 MHz/               Stop  5.335 GHz
```
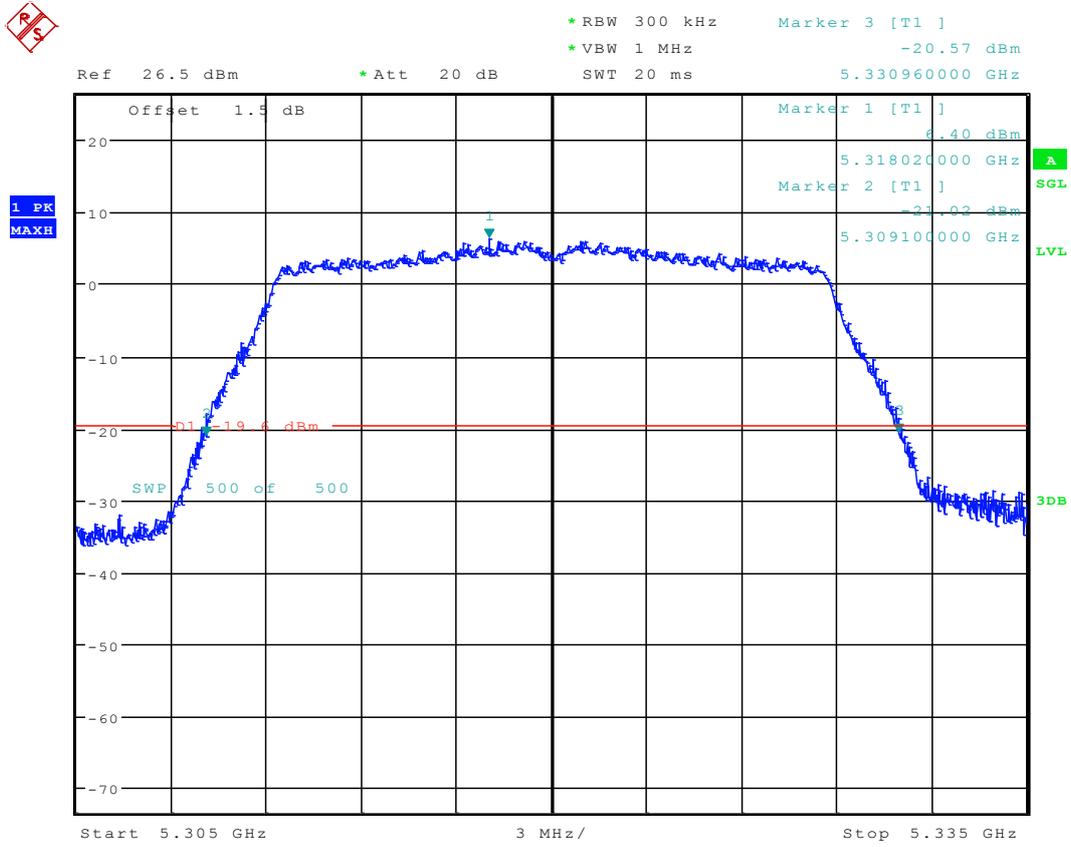
Date: 27.SEP.2016 12:30:30

2.11 11N20_100 Ant 1


```
                                              * RBW  300 kHz        Marker 3 [T1 ]
                                              * VBW  1 MHz                  -19.41 dBm
Ref  26.5 dBm              * Att  20 dB        SWT  20 ms          5.511000000 GHz
        Offset  1.5 dB                                  Marker 1 [T1 ]
                                                                      6.88 dBm
   20                                                            5.502360000 GHz    A
                                                                                   SGL
                                                       Marker 2 [T1 ]
   10                                                              -20.03 dBm
                                                                5.489080000 GHz   LVL
    0
  -10
                                                                                  3DB
  D1 -19.124 dBm
  -20
      SWP  500 of  500
  -40
  -50
  -60
  -70
Start  5.485 GHz                    3 MHz/                  Stop  5.515 GHz
```
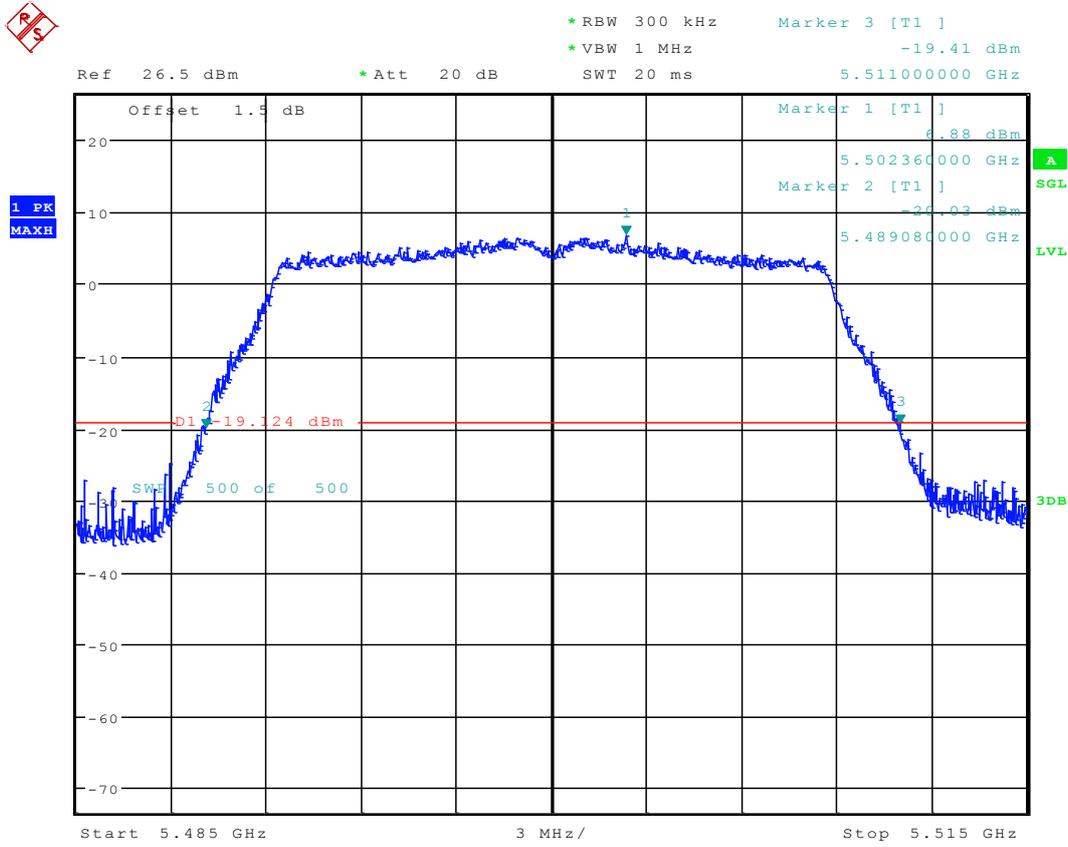
Date: 27.SEP.2016 12:40:26

2.12 11N20_140 Ant 1


```
* RBW  300 kHz        Marker 3 [T1 ]
* VBW  1 MHz                     -19.62 dBm
Ref  26.5 dBm        * Att  20 dB    SWT  20 ms      5.710920000 GHz
                                     Marker 1 [T1 ]
    Offset  1.5 dB                            6.61 dBm
                                     5.698420000 GHz
                                     Marker 2 [T1 ]
                                             -20.23 dBm
                                     5.689040000 GHz
```

Start 5.685 GHz   3 MHz/   Stop 5.715 GHz
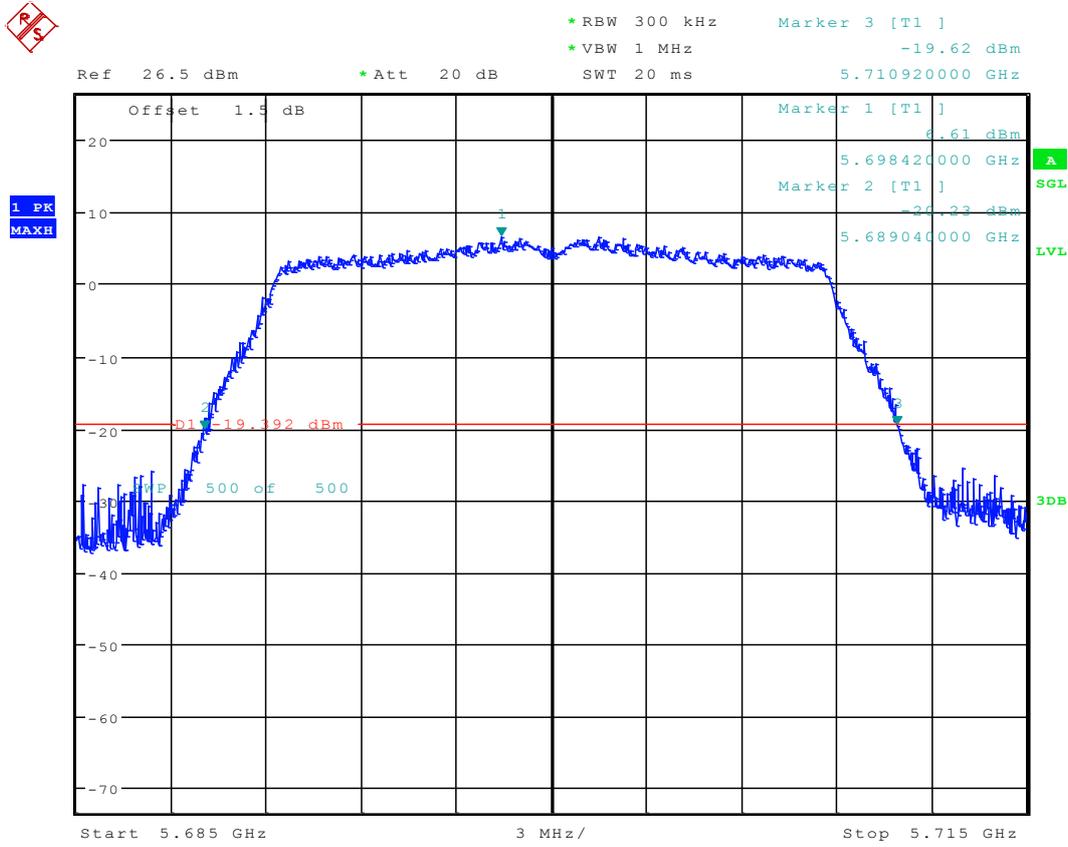
Date: 27.SEP.2016 12:50:49
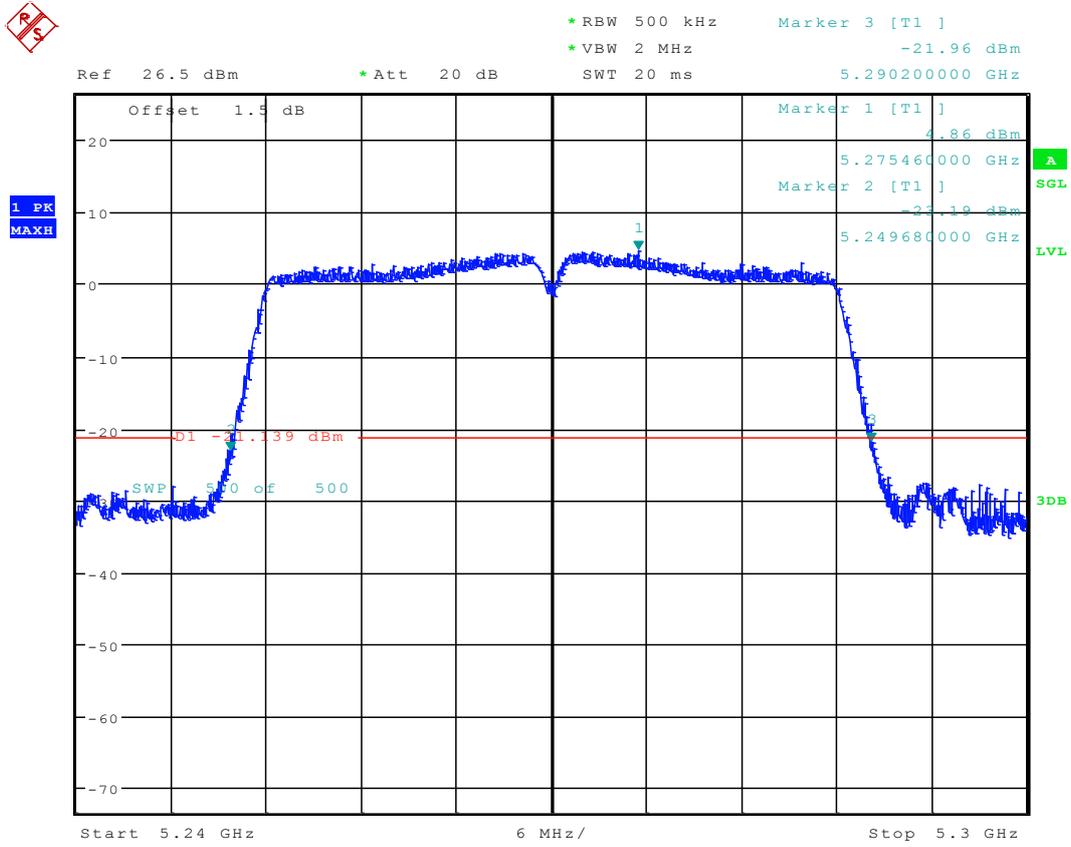
2.13 11N40_38 Ant 1
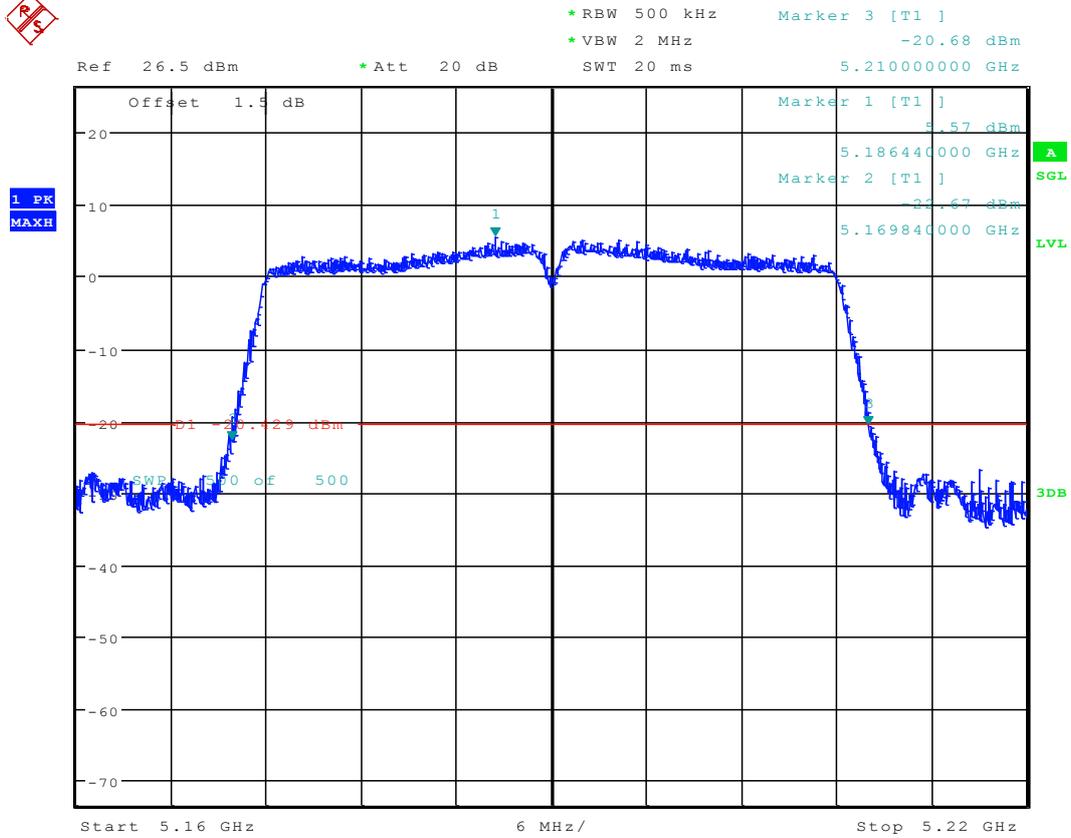
Date: 27.SEP.2016 13:25:45

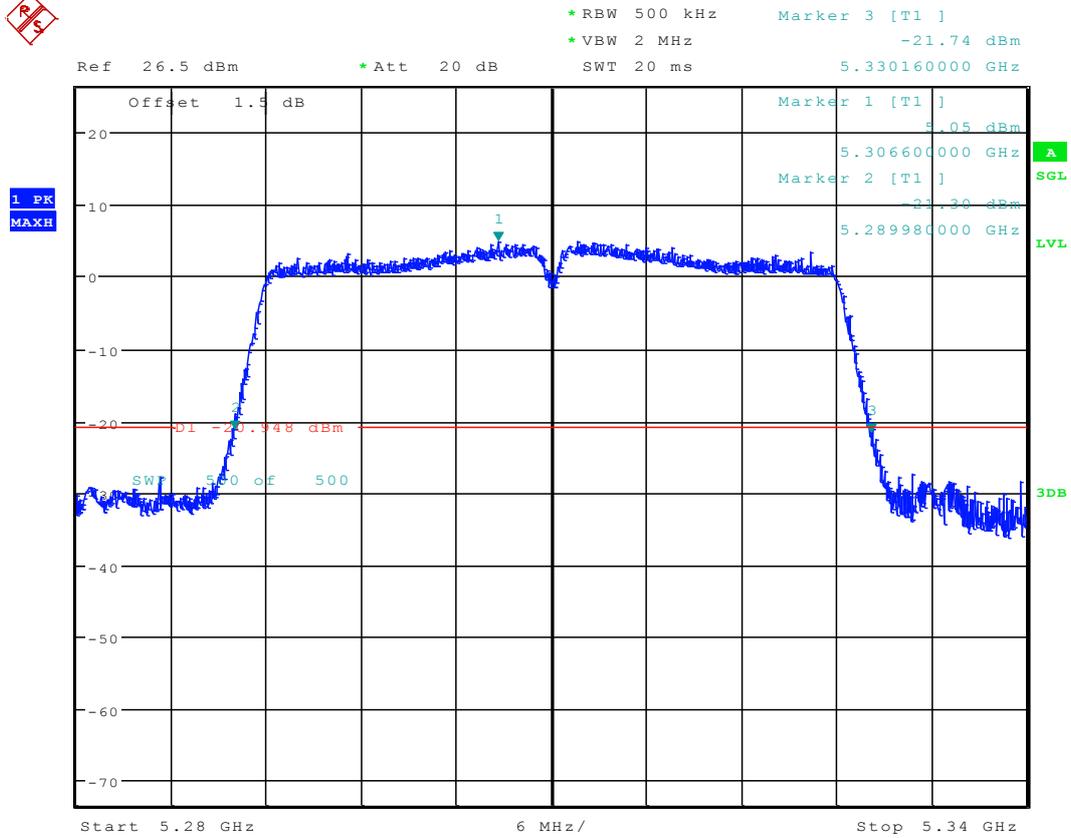## 2.14 11N40_46 Ant 1
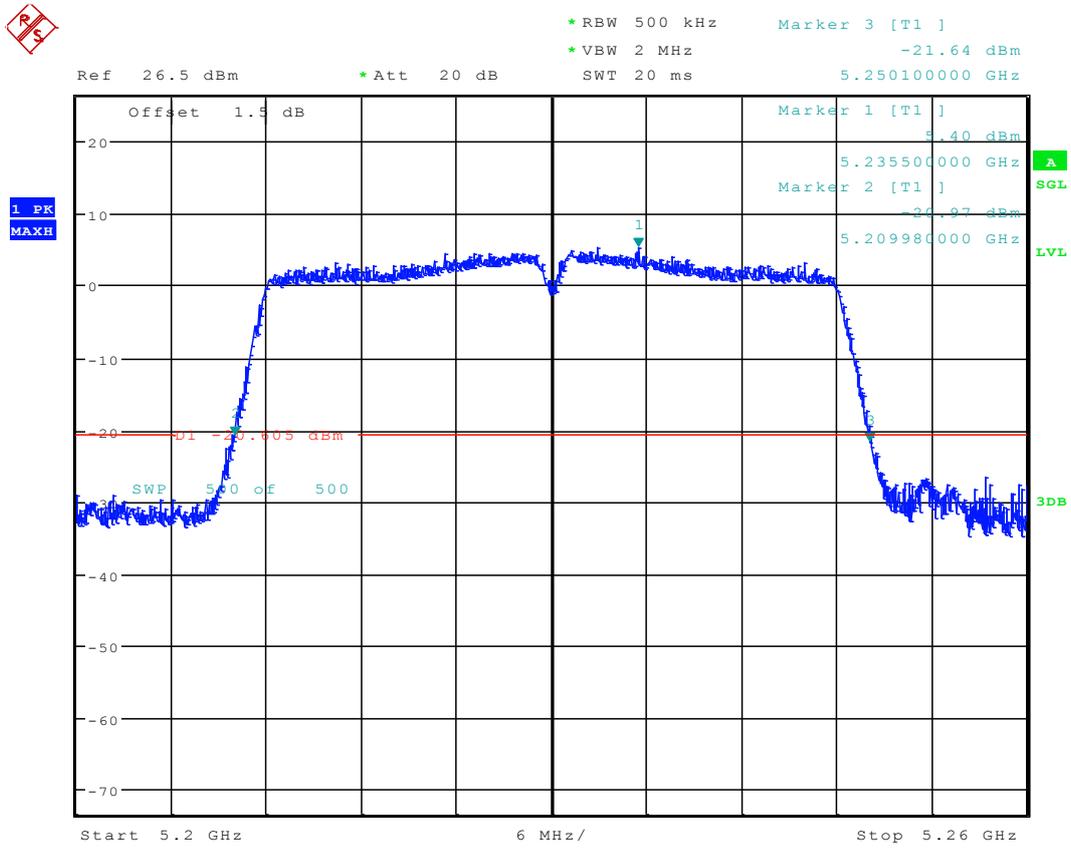
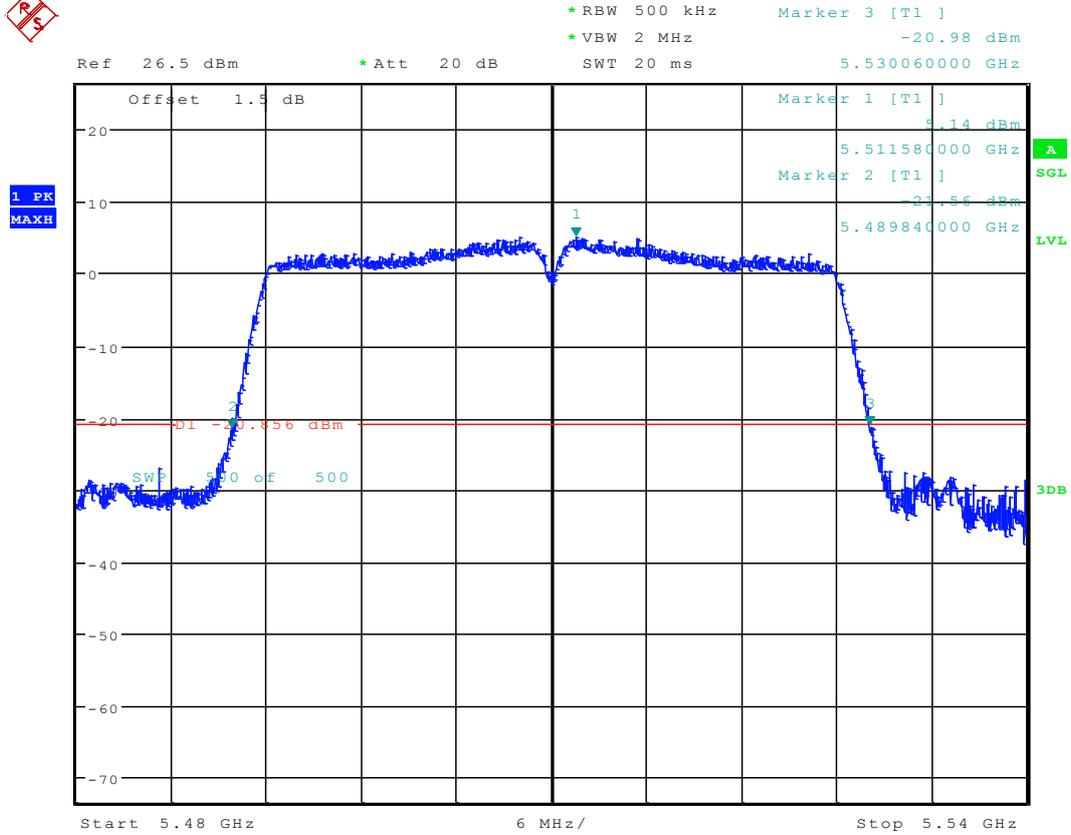Date: 27.SEP.2016 13:42:25

2.15 11N40_54 Ant 1

Date: 27.SEP.2016 13:47:32
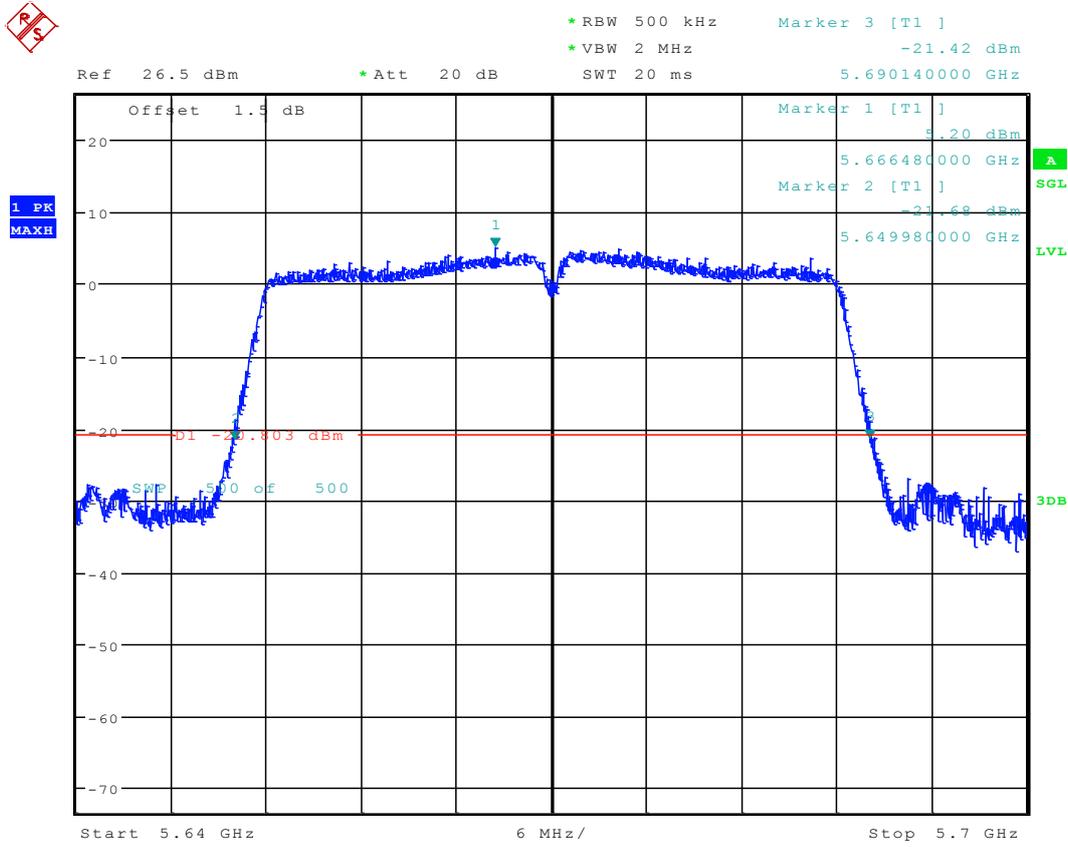
2.16 11N40_62 Ant 1

Date: 27.SEP.2016 15:26:48

2.17 11N40_102 Ant 1


```
                                    *RBW  500 kHz      Marker 3 [T1 ]
                                    *VBW  2 MHz              -20.98 dBm
Ref  26.5 dBm        *Att  20 dB    SWT 20 ms          5.530060000 GHz

   Offset  1.5 dB                               Marker 1 [T1 ]
 -20                                                       5.14 dBm
                                               5.511580000 GHz        A
                                               Marker 2 [T1 ]         SGL
 -10                                                      -21.56 dBm
                                               5.489840000 GHz        LVL

   0

 --10

 --20   D1 -20.856 dBm
        SWP  500 of   500                                             3DB

 --40

 --50

 --60

 --70

Start 5.48 GHz              6 MHz/              Stop 5.54 GHz
```
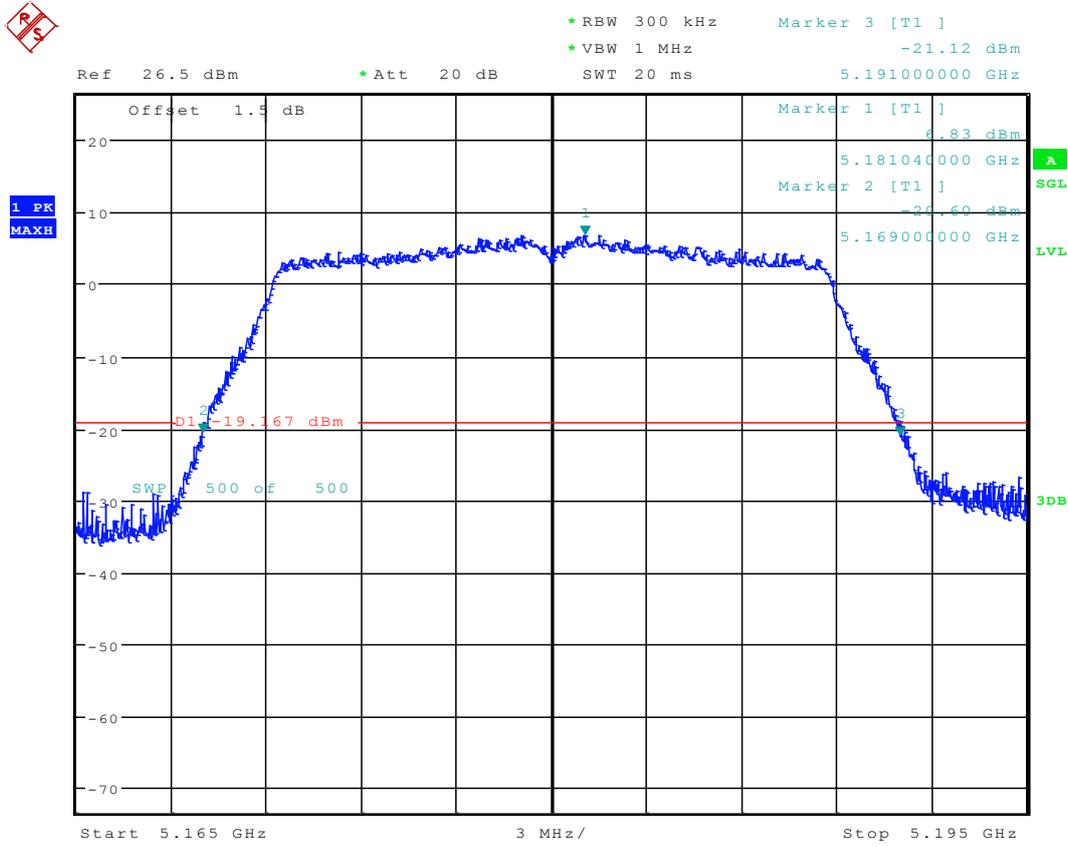
Date: 27.SEP.2016 15:35:42

2.18 11N40_134 Ant 1
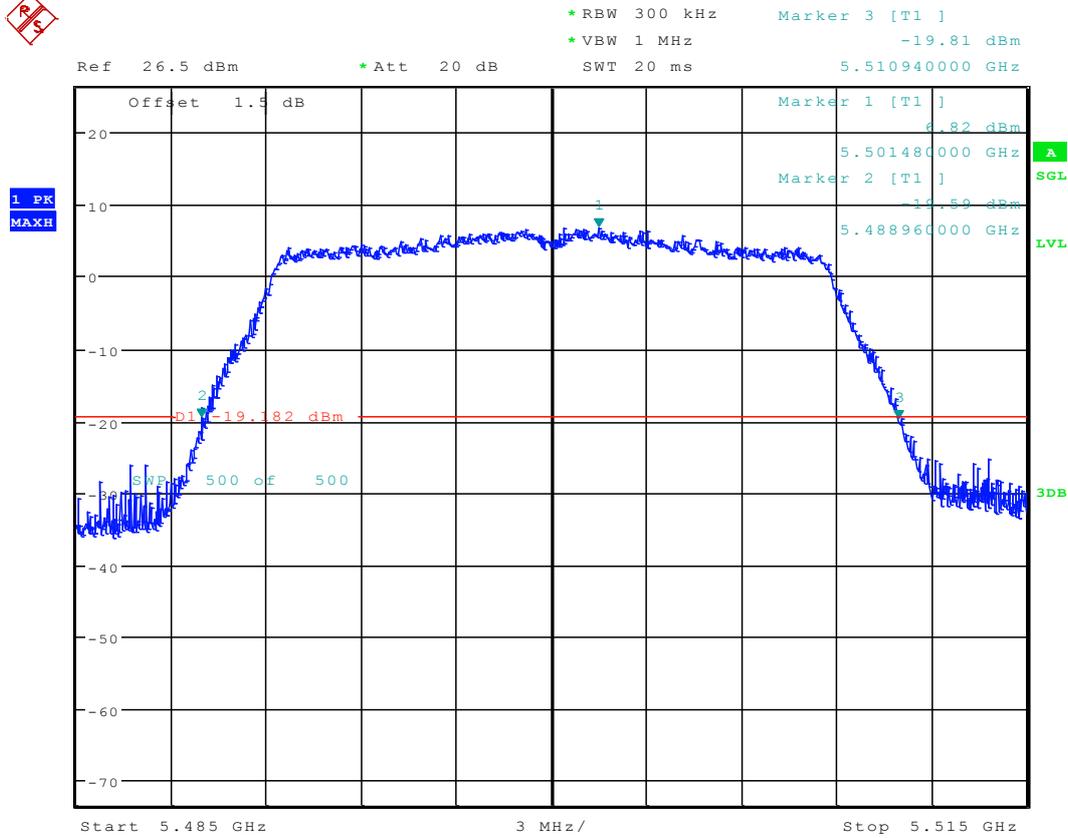

Date: 27.SEP.2016 15:42:11

2.19 11AC20_36 Ant 1

Date: 27.SEP.2016 16:20:00

2.20   11AC20_48 Ant 1

Date: 27.SEP.2016 16:26:50

2.21 11AC20_52 Ant 1


```
                                          * RBW  300 kHz       Marker 3 [T1 ]
                                          * VBW  1 MHz                    -21.85 dBm
Ref  26.5 dBm           * Att  20 dB       SWT  20 ms          5.270960000 GHz

    Offset  1.5 dB                                  Marker 1 [T1 ]
  -20                                                          6.30 dBm
                                                     5.262240000 GHz      A
                                                  Marker 2 [T1 ]          SGL
1 PK    10                                                    -20.03 dBm
MAXH                                                 5.249080000 GHz      LVL
         0

  -10

  -20   D1 -19.702 dBm                                                    3DB

        SWP   500 of   500

  -40

  -50

  -60

  -70

Start 5.245 GHz                  3 MHz/                Stop 5.275 GHz
```

Date: 27.SEP.2016 16:32:22

2.22 11AC20_64 Ant 1


```
                                    * RBW  300 kHz      Marker 3 [T1 ]
                                    * VBW  1 MHz                    -19.97 dBm
Ref  26.5 dBm         * Att  20 dB   SWT 20 ms          5.330940000 GHz
    Offset  1.5 dB                            Marker 1 [T1 ]
 -20                                                        6.31 dBm
                                                   5.320880000 GHz    A
                                             Marker 2 [T1 ]           SGL
 -10                                                       -21.76 dBm
                                                   5.309000000 GHz    LVL
   0
 -10
 -20   D1 -19.689 dBm                                                 3DB
   SWP  500 of  500
 -30
 -40
 -50
 -60
 -70
Start  5.305 GHz              3 MHz/              Stop  5.335 GHz
```

Date: 27.SEP.2016 16:38:01

2.23 11AC20_100 Ant 1


```
                                              * RBW  300 kHz      Marker 3 [T1 ]
                                              * VBW  1 MHz                 -19.81 dBm
  Ref   26.5 dBm          * Att  20 dB        SWT 20 ms         5.510940000 GHz

        Offset  1.5  dB                                Marker 1 [T1 ]
   -20                                                        6.82 dBm
                                                       5.501480000 GHz   A
                                                                          SGL
   -10                                                Marker 2 [T1 ]
                                                             -19.59 dBm
    0                                                  5.488960000 GHz   LVL

  -10

  -20   D1 -19.182 dBm

  -30   SWP   500 of   500                                                 3DB

  -40

  -50

  -60

  -70

  Start 5.485 GHz                  3 MHz/             Stop  5.515 GHz
```

Date: 27.SEP.2016 16:46:04

2.24 11AC20_140 Ant 1

Date: 27.SEP.2016 16:51:23

2.25 11AC40_38 Ant 1


```
                                      *RBW  500 kHz      Marker 3 [T1 ]
                                      *VBW  2 MHz              -21.92 dBm
Ref   26.5 dBm        *Att  20 dB    SWT 20 ms         5.210160000 GHz

    Offset  1.5 dB                               Marker 1 [T1 ]
 20                                                        4.36 dBm
                                                  5.191420000 GHz        A
                                               Marker 2 [T1 ]            SGL
 10
                                                         -22.31 dBm
                                                  5.169880000 GHz        LVL
  0
-10
-20   D1 -21.642 dBm                                                     3DB
      SWP  500 of  500
-30
-40
-50
-60
-70
Start 5.16 GHz              6 MHz/              Stop 5.22 GHz
```

Date: 27.SEP.2016 19:42:27

2.26 11AC40_46 Ant 1
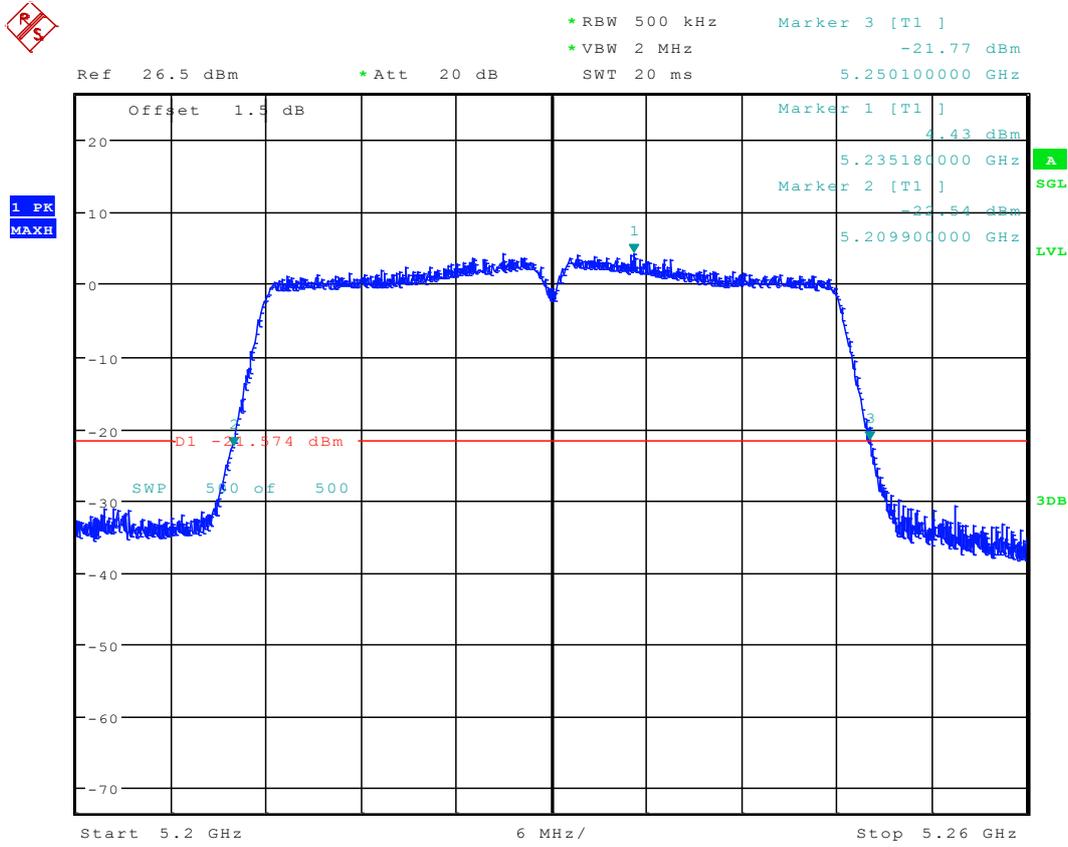
Date: 27.SEP.2016 19:58:41

2.27 11AC40_54 Ant 1
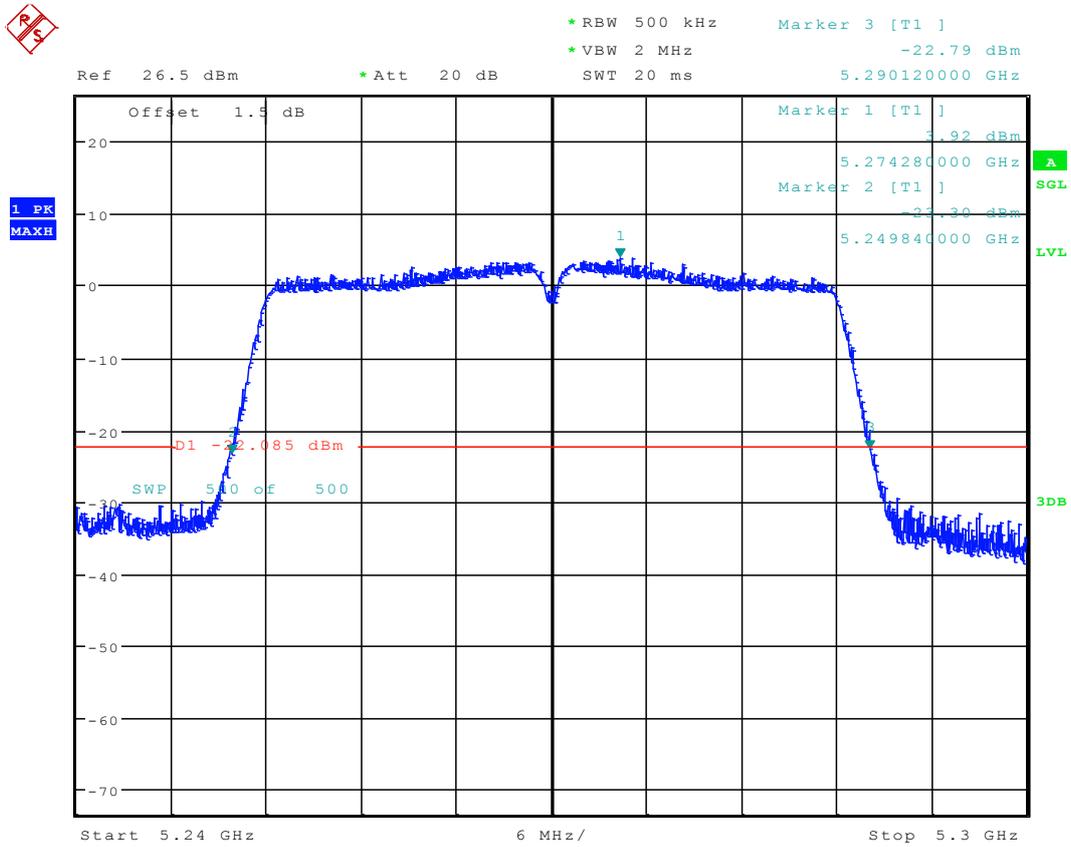
Date: 27.SEP.2016 20:10:40

2.28 11AC40_62 Ant 1
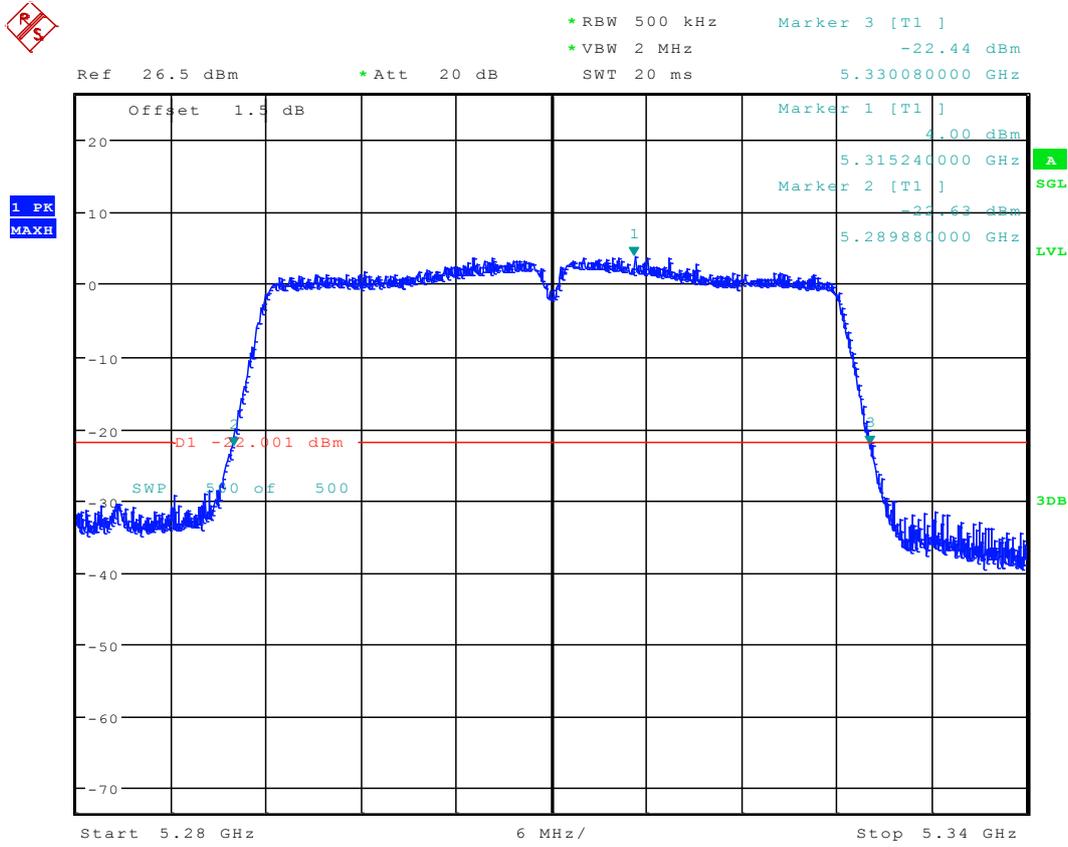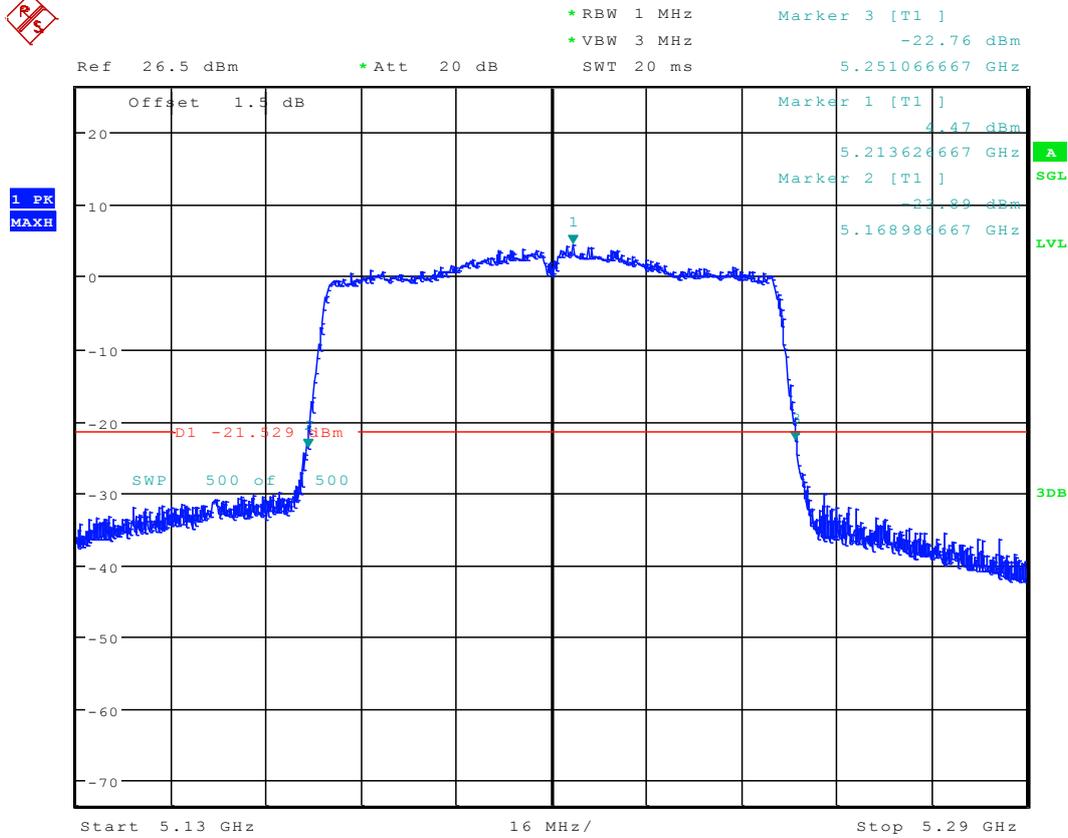

Date: 27.SEP.2016 20:17:55

2.29 11AC40_102 Ant 1
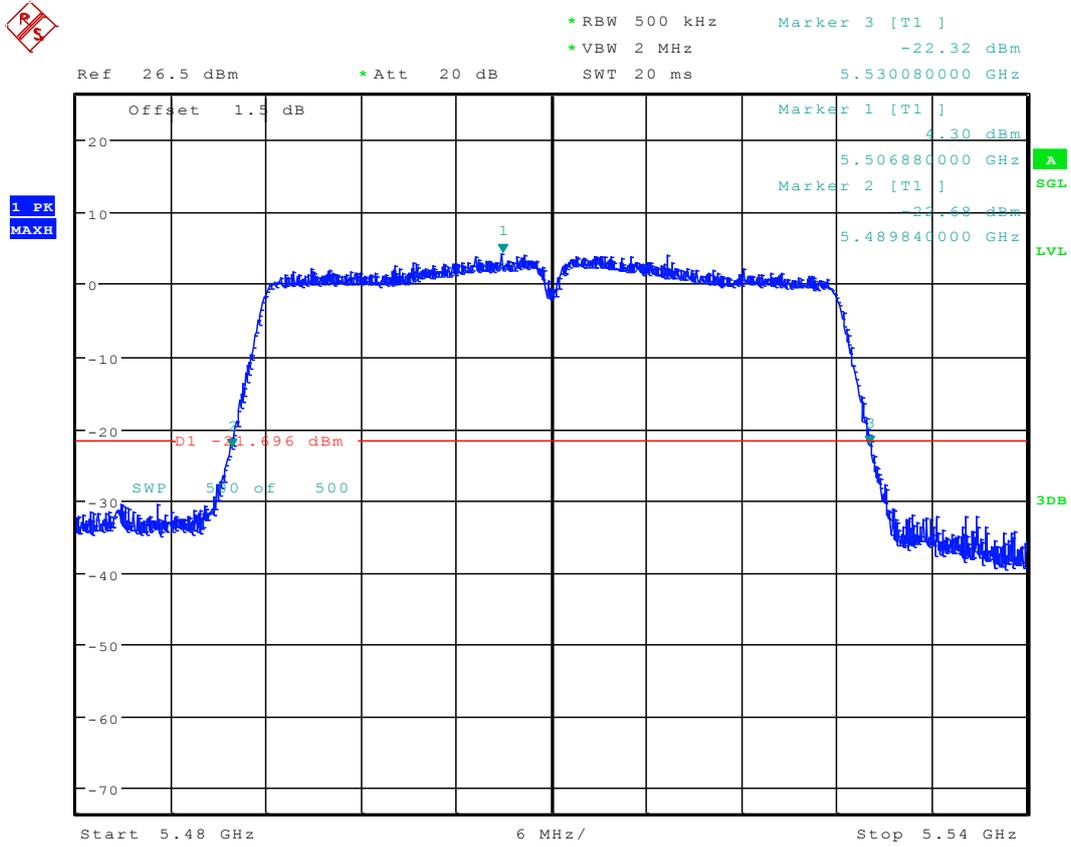
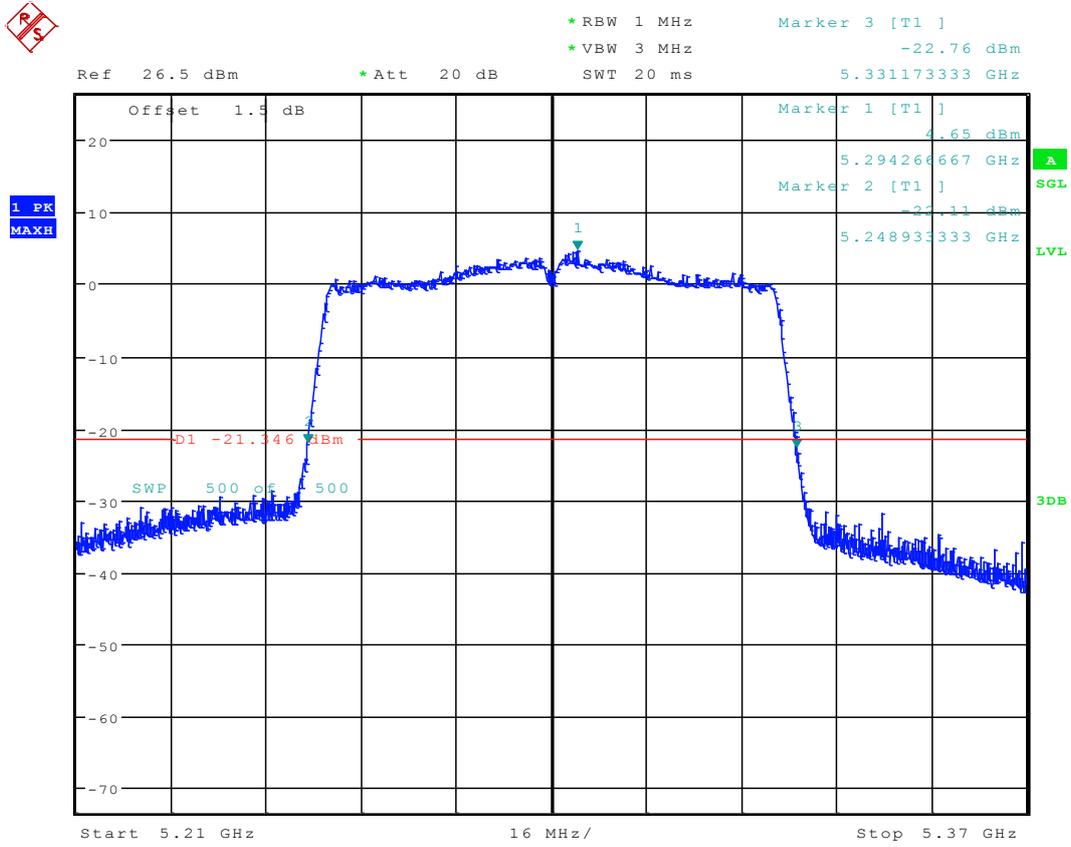

Date: 27.SEP.2016 20:25:52

2.30 11AC40_134 Ant 1
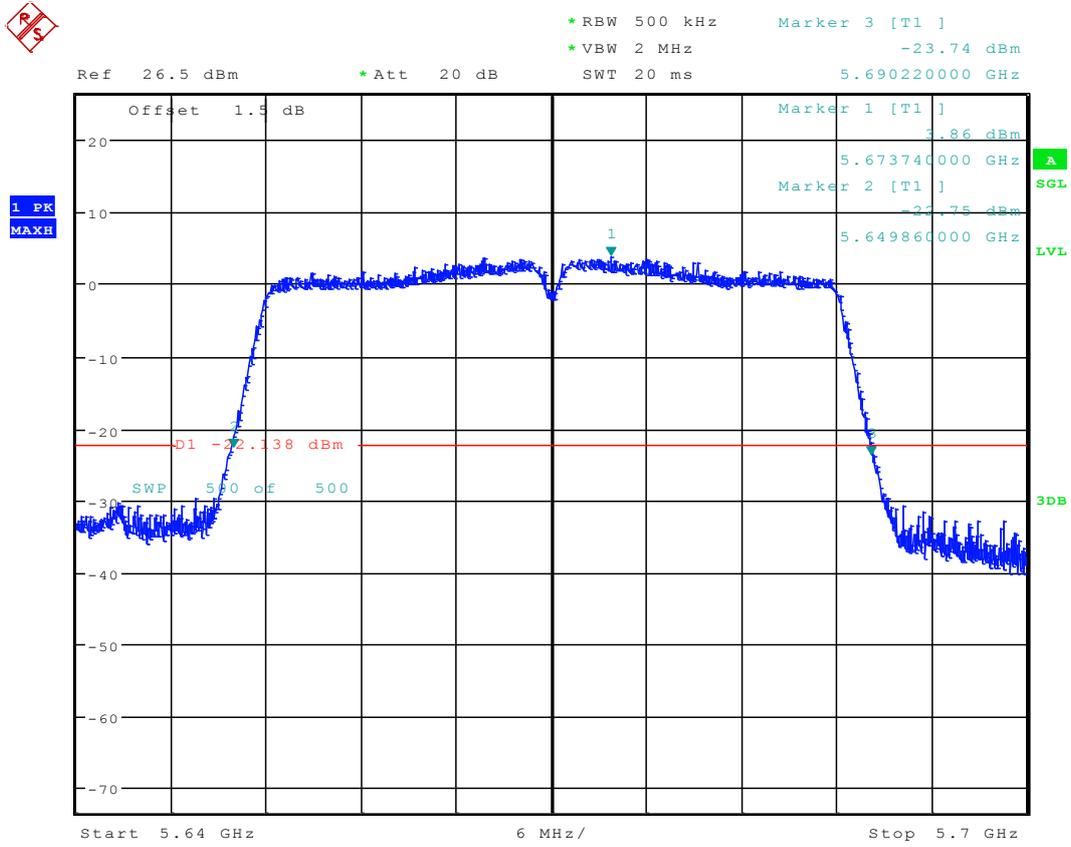
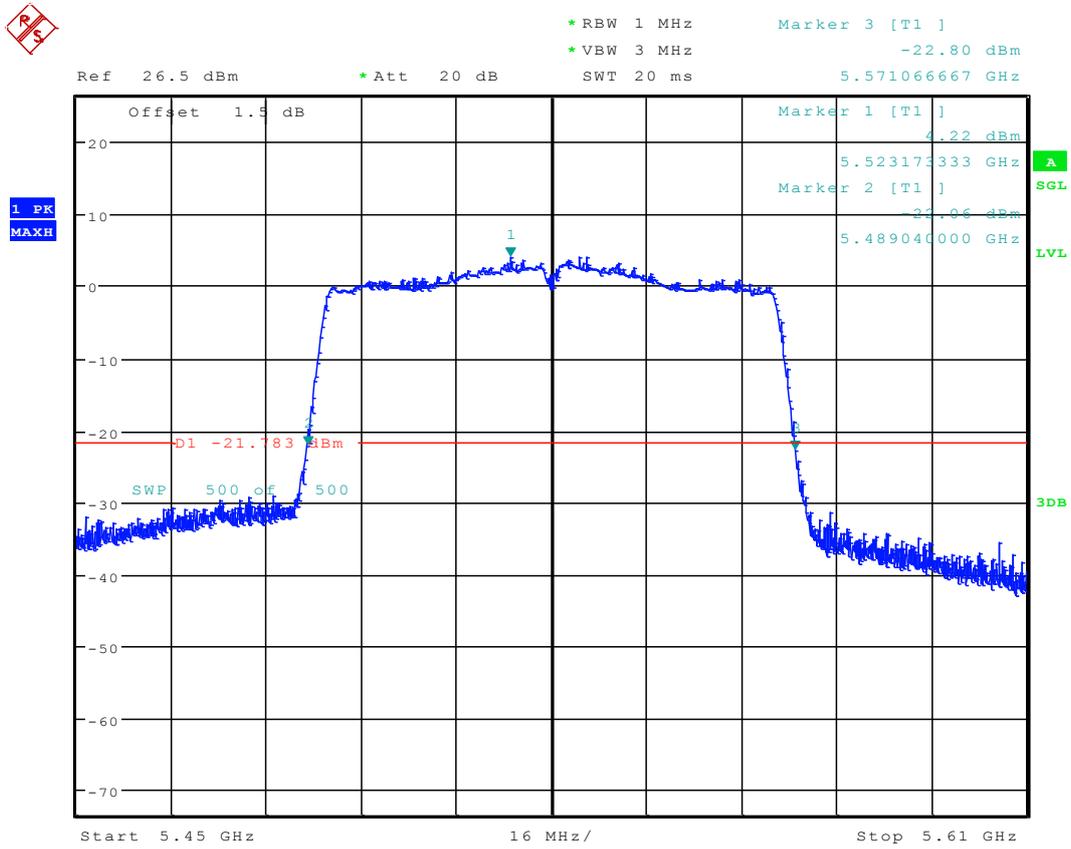
Date: 27.SEP.2016 20:32:07

2.31 11AC80_42 Ant 1


```
*RBW  1 MHz          Marker 3 [T1 ]
*VBW  3 MHz                -22.76 dBm
Ref  26.5 dBm       *Att  20 dB    SWT 20 ms    5.251066667 GHz

Offset  1.5 dB                       Marker 1 [T1 ]
 -20                                      4.47 dBm
                                      5.213626667 GHz
 -10                                 Marker 2 [T1 ]
                                          -23.89 dBm
                                      5.168986667 GHz
  0

 -10

 -20    D1 -21.529 dBm

 -30    SWP  500 of  500

 -40

 -50

 -60

 -70

Start 5.13 GHz          16 MHz/          Stop 5.29 GHz
```

Date: 27.SEP.2016 21:32:58

2.32　11AC80_58 Ant 1

Date: 27.SEP.2016 21:41:15

2.33 11AC80_106 Ant 1


```
*RBW  1 MHz          Marker 3 [T1 ]
*VBW  3 MHz                   -22.80 dBm
Ref  26.5 dBm          *Att  20 dB    SWT  20 ms      5.571066667 GHz

Offset  1.5 dB                        Marker 1 [T1 ]
                                              4.22 dBm
                                       5.523173333 GHz
                                      Marker 2 [T1 ]
                                              -22.06 dBm
                                       5.489040000 GHz

D1 -21.783 dBm

SWP  500 of  500
```

Start 5.45 GHz   16 MHz/   Stop 5.61 GHz

Date: 27.SEP.2016 21:46:21

3 Test Plot for 6dBEmission Bandwidth

3.1 11A_149 Ant 1


```
* RBW 100 kHz          Marker 3 [T1 ]
* VBW 300 kHz                  -4.33 dBm
Ref  26.5 dBm    * Att  20 dB   SWT 20 ms    5.753200000 GHz

Offset  1.5 dB                   Marker 1 [T1 ]
                                        1.89 dBm
                                 5.738760000 GHz
                                 Marker 2 [T1 ]
                                        -4.63 dBm
                                 5.736840000 GHz

D1 -4.105

SWP  400 of  500

Start 5.73 GHz          3 MHz/          Stop 5.76 GHz
```

Date: 26.SEP.2016 21:36:59

3.2 11A_165 Ant 1


```
                                          *RBW  100 kHz      Marker 3 [T1 ]
                                          *VBW  300 kHz              -5.00 dBm
        Ref   26.5 dBm        *Att  20 dB   SWT 20 ms      5.833200000 GHz

        Offset   1.5 dB                              Marker 1 [T1 ]
      -20                                                    1.48 dBm
                                                     5.818760000 GHz      A
                                                   Marker 2 [T1 ]        SGL
 1 PK  -10                                                  -5.06 dBm
 MAXH                                                 5.816840000 GHz    LVL
                                    1
        0                                                   3
                                  2                    3
       D1 -4.518 dBm
      -10

      -20

      -30   SWP   00 of   500                                           3DB

      -40

      -50

      -60

      -70
        Start 5.81 GHz              3 MHz/              Stop 5.84 GHz
```

Date: 26.SEP.2016 21:47:20

3.3 11N20_149 Ant 1


```
* RBW 100 kHz          Marker 3 [T1 ]
* VBW 300 kHz                    -4.10 dBm
Ref 26.5 dBm      * Att 20 dB    SWT 20 ms          5.753800000 GHz

Offset 1.5 dB                         Marker 1 [T1 ]
                                            2.18 dBm
                                      5.747520000 GHz        A
                                      Marker 2 [T1 ]          SGL
                                            -4.63 dBm
                                      5.736220000 GHz        LVL

1 PK
MAXH

D1 -3.8

SWP  500 of   500                                           3DB

Start 5.73 GHz              3 MHz/              Stop 5.76 GHz
```
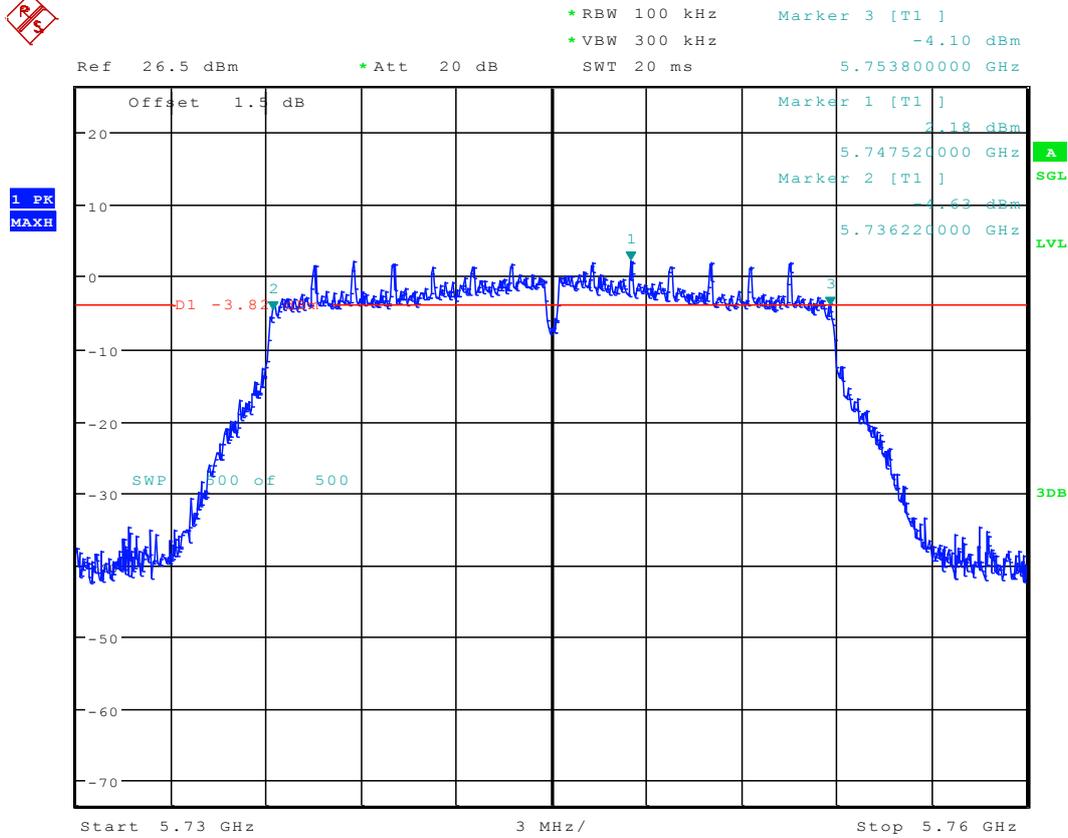
Date: 27.SEP.2016 12:58:55

3.4 11N20_165 Ant 1
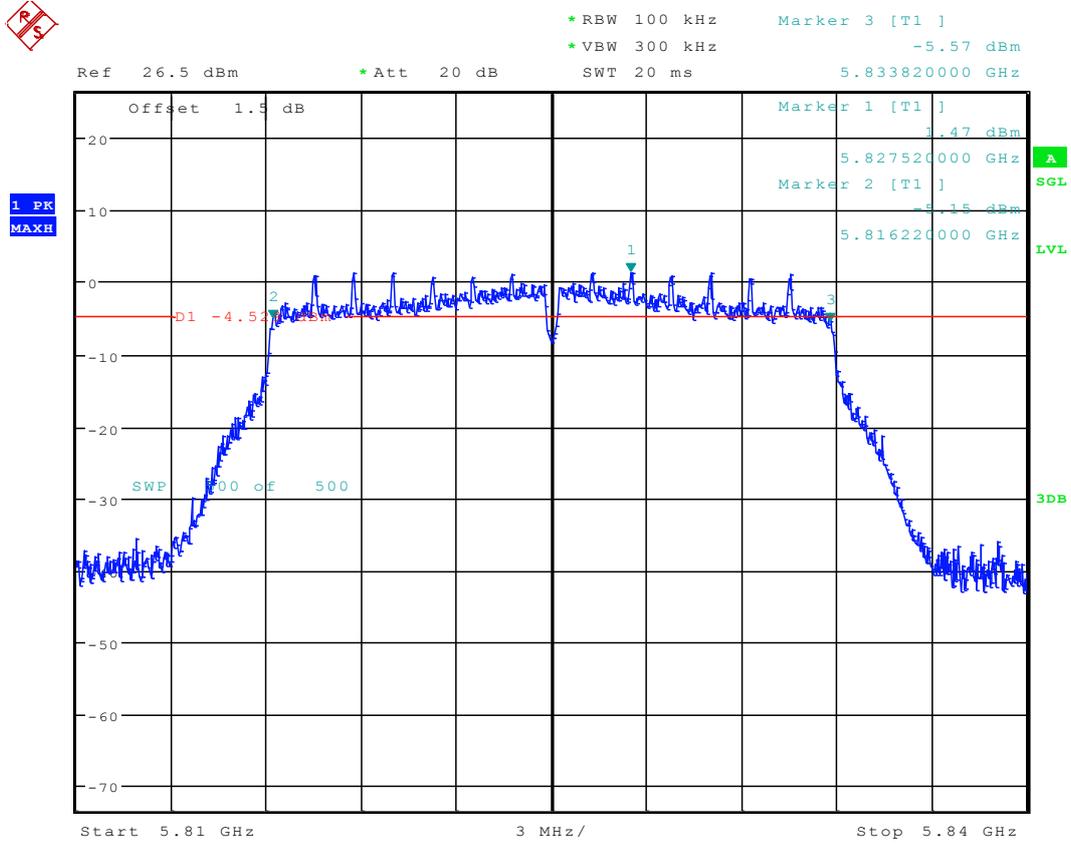
Date: 27.SEP.2016 13:04:54

3.5 11N40_151 Ant 1

* RBW 100 kHz
* VBW 300 kHz
SWT 20 ms

Ref 26.5 dBm   * Att 20 dB

Marker 3 [T1]
        -7.65 dBm
5.772960000 GHz

Marker 1 [T1]
        -1.23 dBm
5.760020000 GHz

Marker 2 [T1]
        -7.62 dBm
5.736860000 GHz

Offset 1.5 dB

A
SGL

LVL

3DB

1 PK
MAXH

D1 -7.2

SWP 500 of 500

Start 5.725 GHz   6 MHz/   Stop 5.785 GHz
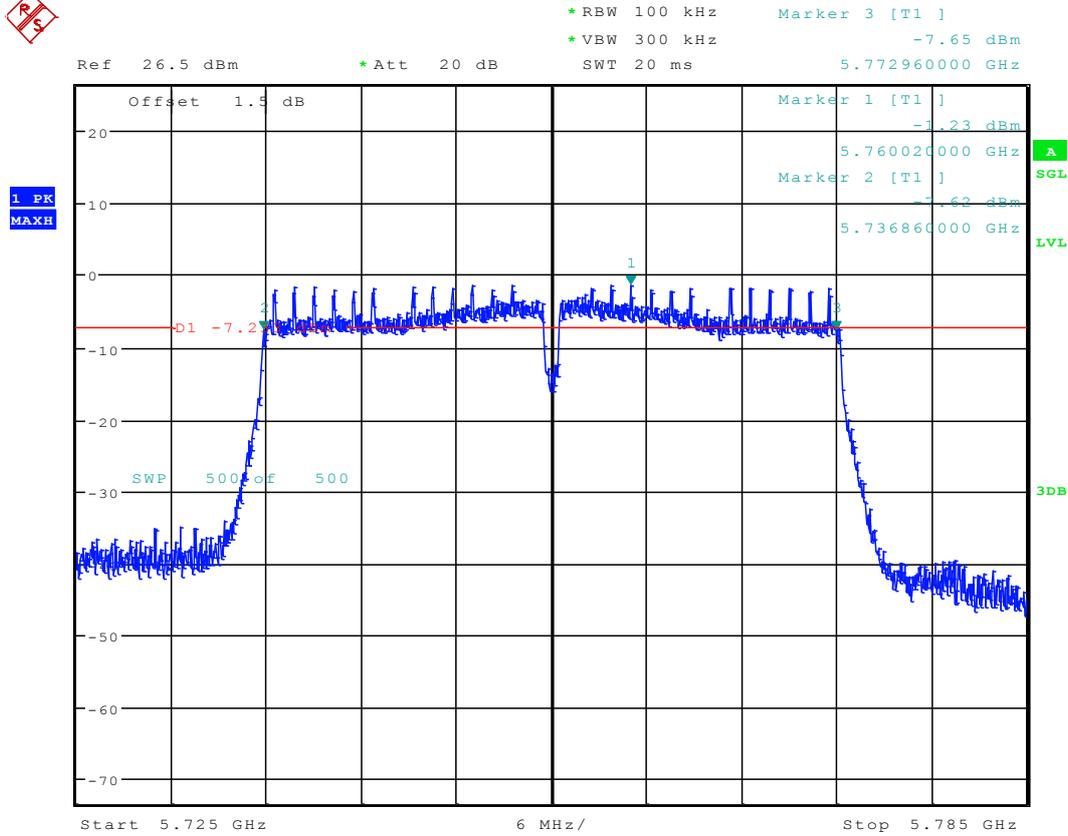
Date: 27.SEP.2016 16:04:38

3.6 11N40_159 Ant 1
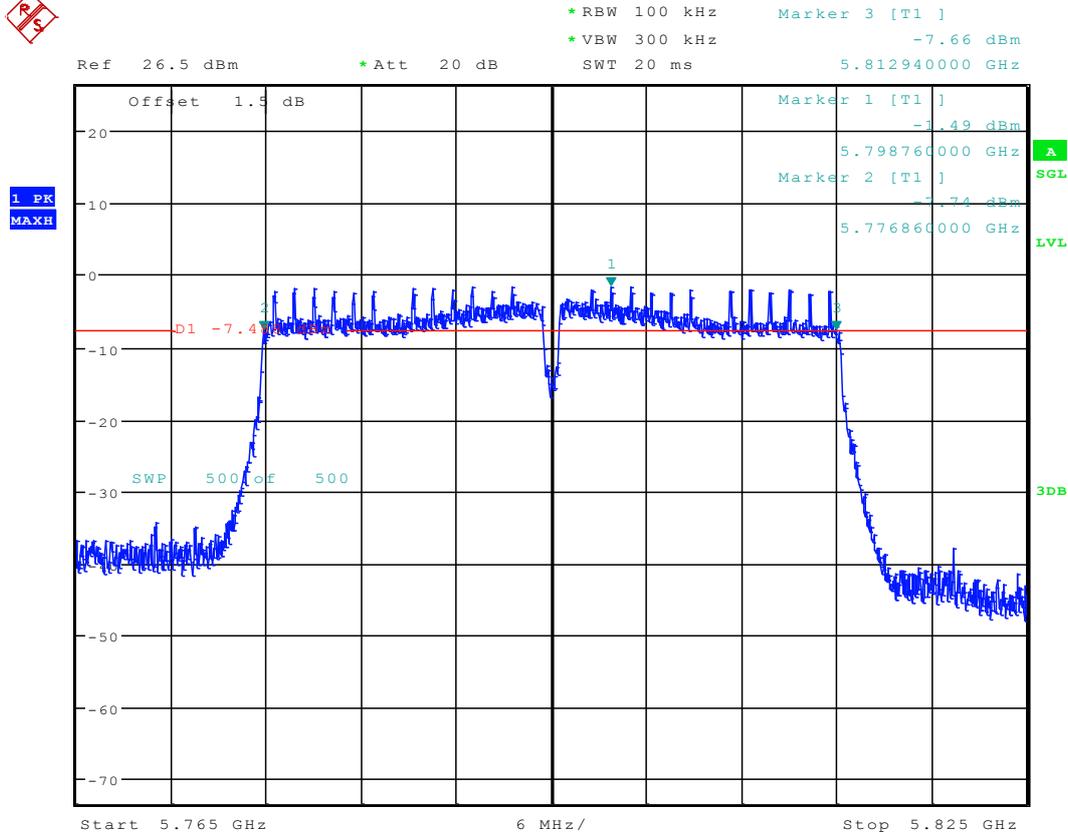
Date: 27.SEP.2016 16:11:44

3.7 11AC20_149 Ant 1


```
                                        * RBW  100 kHz      Marker 3 [T1 ]
                                        * VBW  300 kHz                -4.76 dBm
     Ref  26.5 dBm        * Att  20 dB   SWT 20 ms          5.753820000 GHz
        Offset  1.5 dB                                     Marker 1 [T1 ]
      20                                                            2.16 dBm
                                                           5.738760000 GHz
                                                          Marker 2 [T1 ]
 1 PK 10                                                            -4.53 dBm
 MAXH                                                       5.736220000 GHz
       0
    D1 -3.85
      -10

      -20

      -30
     SWP  500 of  500

      -50

      -60

      -70

     Start 5.73 GHz              3 MHz/              Stop 5.76 GHz
```
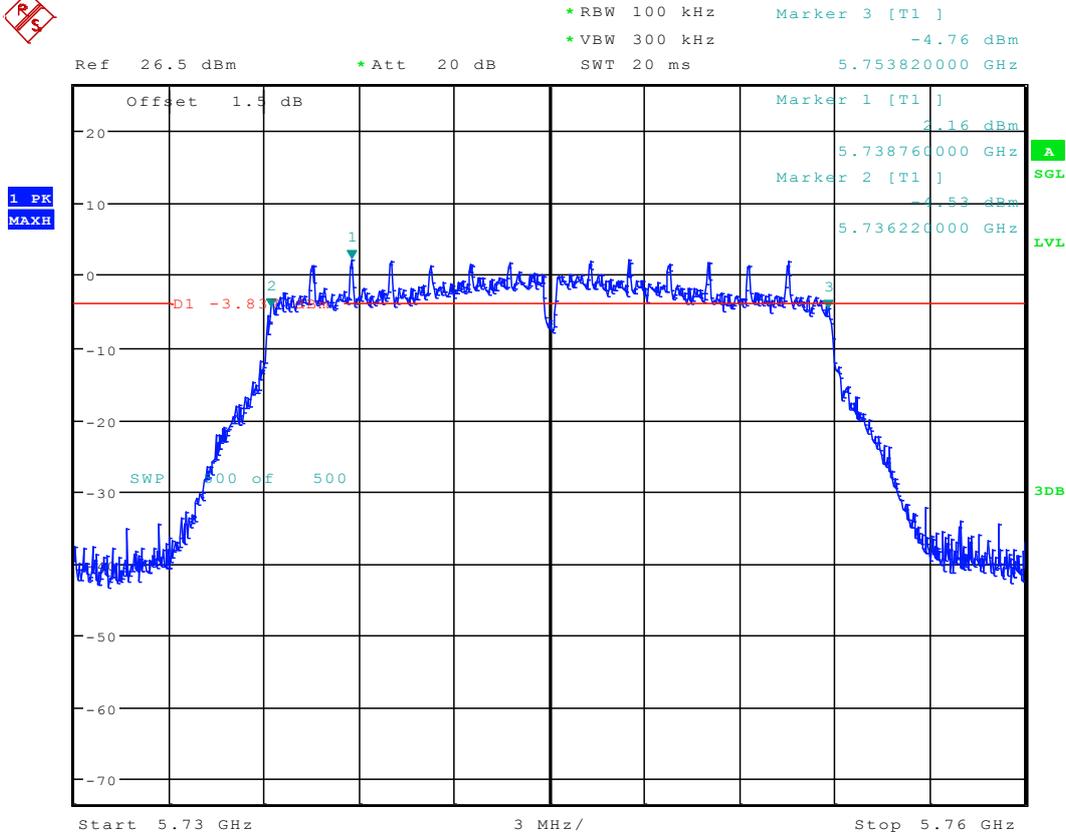
Date: 27.SEP.2016 17:09:54

3.8 11AC20_165 Ant 1


```
                                              *RBW  100 kHz       Marker 3 [T1 ]
                                              *VBW  300 kHz               -5.28 dBm
          Ref   26.5 dBm          *Att  20 dB   SWT  20 ms        5.833820000 GHz

              Offset  1.5 dB                              Marker 1 [T1 ]
          -20                                                      1.45 dBm
                                                         5.818760000 GHz      A
   1 PK                                                  Marker 2 [T1 ]       SGL
   MAXH   -10                                                     -5.01 dBm
                                                         5.816220000 GHz      LVL
            0

          D1 -4.54 dBm                                                        3DB
          -10

          -20
                                                                             3DB
          SWP   500 of   500
          -30

          -50

          -60

          -70
          Start 5.81 GHz              3 MHz/              Stop 5.84 GHz
```
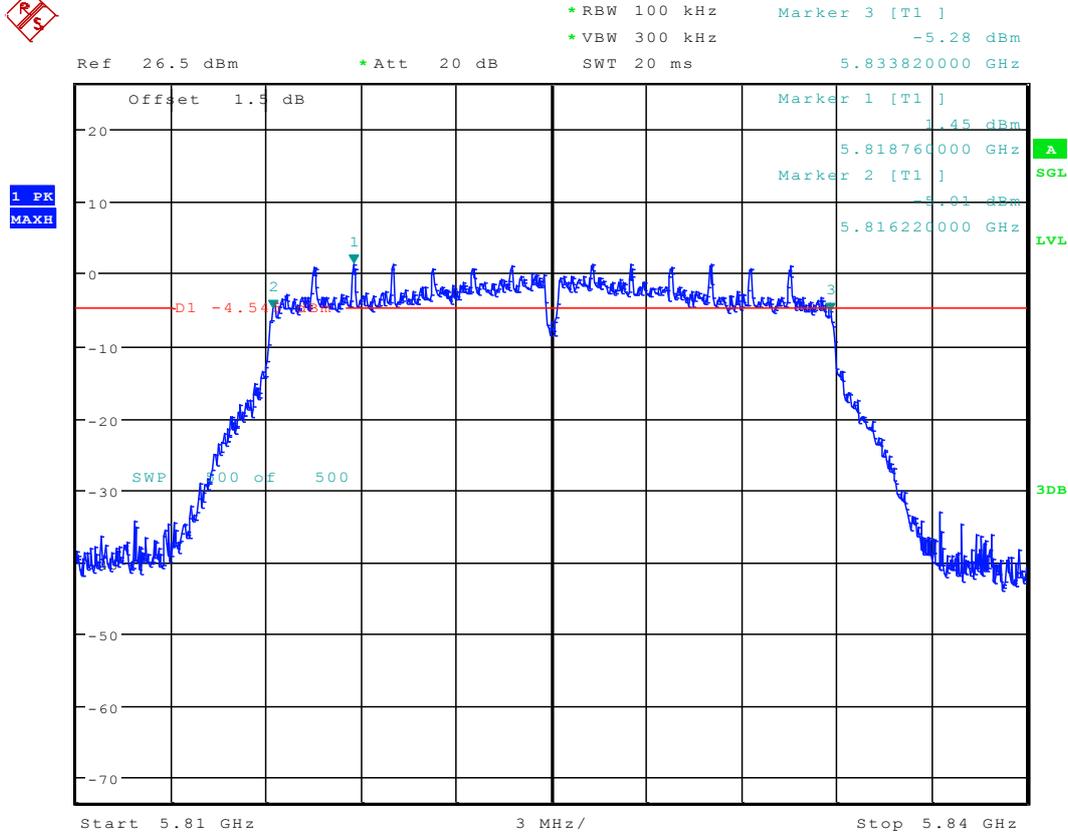
Date: 27.SEP.2016 19:33:13

3.9 11AC40_151 Ant 1


```
                                    * RBW  100 kHz      Marker 3 [T1 ]
                                    * VBW  300 kHz                  -8.33 dBm
  Ref   26.5 dBm        * Att   20 dB    SWT  20 ms      5.772940000 GHz
    Offset   1.5  dB                     Marker 1 [T1 ]
 20                                                      -2.07 dBm
                                                 5.760020000 GHz    A
 10                                              Marker 2 [T1 ]    SGL
                                                         -9.19 dBm
  0                                              5.736860000 GHz   LVL
 -10  D1 -8.0
 -20
 -30  SWP   500 of   500                                          3DB
 -40
 -50
 -60
 -70
  Start  5.725 GHz              6 MHz/              Stop  5.785 GHz
```

1 PK
MAXH
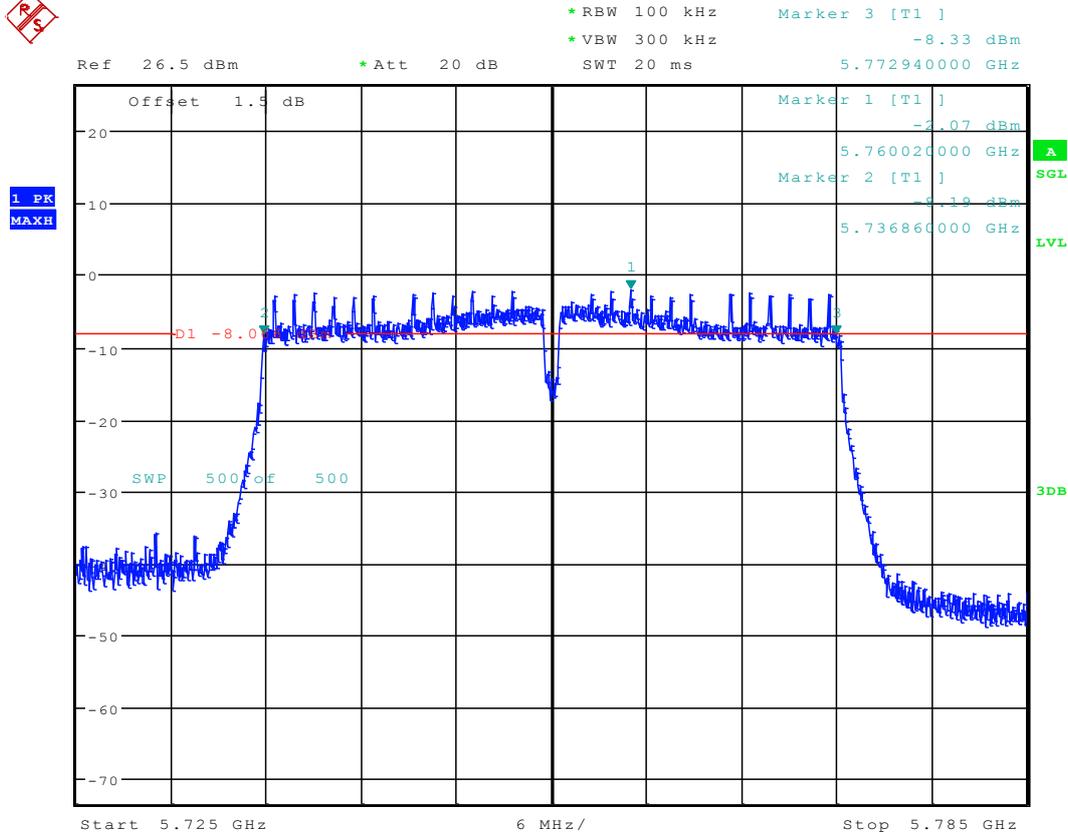
Date: 27.SEP.2016 21:11:42

3.1011 AC40_159 Ant 1


```
                                          *RBW  100 kHz      Marker 3 [T1 ]
                                          *VBW  300 kHz            -8.47 dBm
     Ref  26.5 dBm          *Att  20 dB    SWT  20 ms        5.813160000 GHz

        Offset  1.5 dB                                Marker 1 [T1 ]
                                                            -2.41 dBm
     20                                              5.798760000 GHz
                                                     Marker 2 [T1 ]
     10                                                    -0.60 dBm
                                                     5.776840000 GHz

      0

    D1 -8.4                                                            3
    -10

    -20

    -30
    SWP   500 of   500

    -40

    -50

    -60

    -70

     Start  5.765 GHz           6 MHz/              Stop  5.825 GHz
```
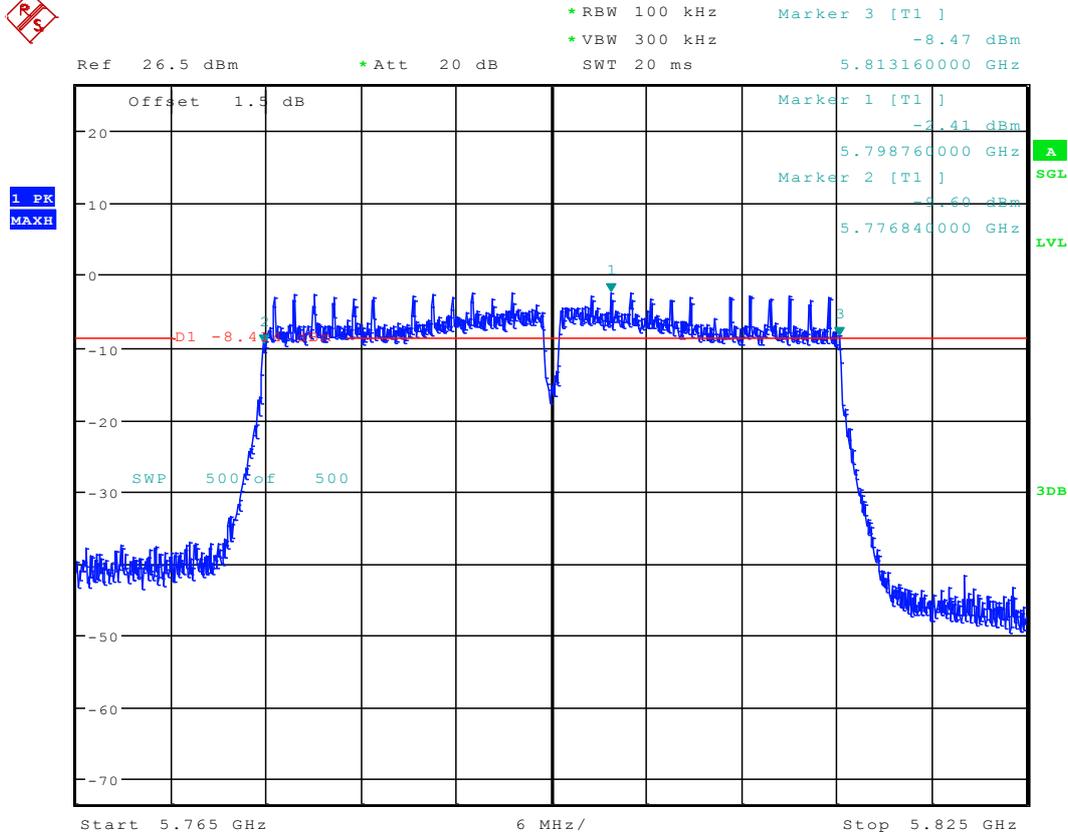
Date: 27.SEP.2016 21:20:53

3.1111AC80_155 Ant 1


```
                                          *RBW 100 kHz        Marker 3 [T1 ]
                                          *VBW 300 kHz              -13.21 dBm
      Ref  26.5 dBm          *Att  20 dB   SWT 20 ms         5.812653333 GHz
       Offset  1.5 dB                                  Marker 1 [T1 ]
    -20                                                      -6.00 dBm
                                                      5.766306667 GHz   A
    -10                                               Marker 2 [T1 ]    SGL
                                                            -12.46 dBm
      0                                               5.737400000 GHz   LVL
    -10  D1 -11.998 d
    -20
         SWP  500 of  500
    -30                                                                 3DB
    -40
    -50
    -60
    -70
      Start  5.695 GHz          16 MHz/          Stop  5.855 GHz
```
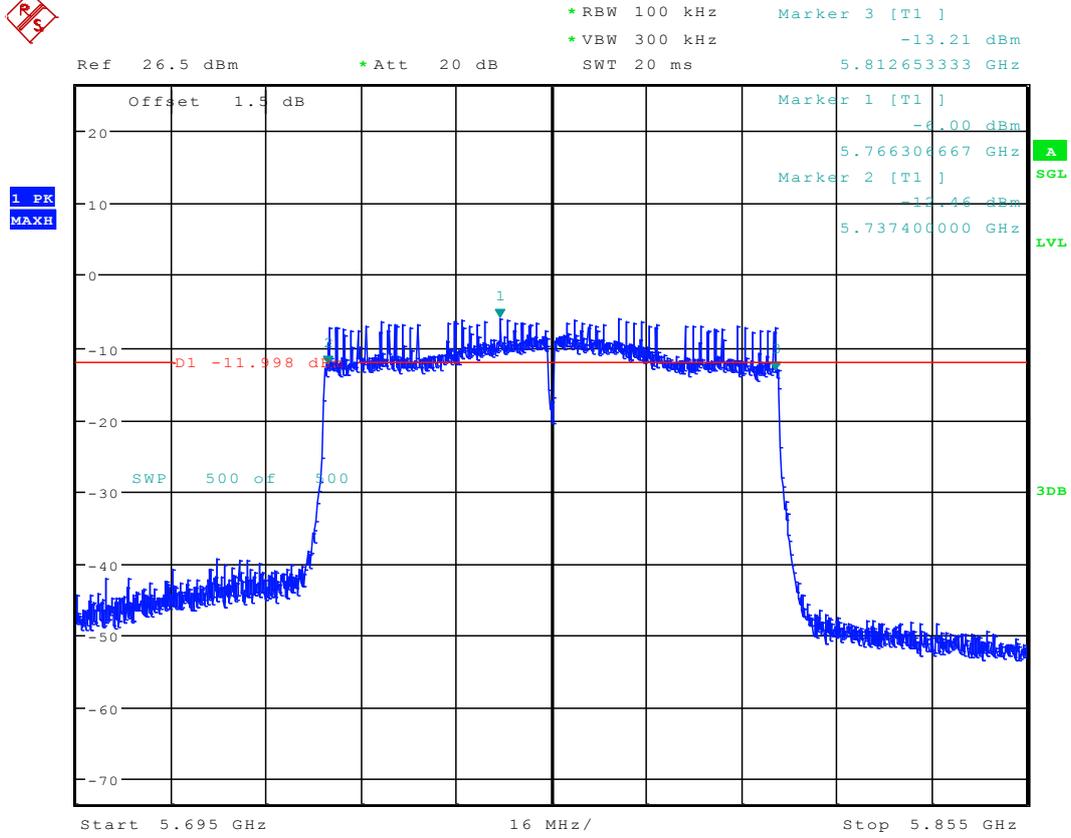
Date: 27.SEP.2016 21:56:22

Appendix B Occupied Bandwidth (OBW)

4 (OBW)Result Table

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Occupied Bandwidth [MHz]	Verdict
11A	36	5180	Ant 1	17.1	pass
	48	5240	Ant 1	17.08	pass
	52	5260	Ant 1	17.08	pass
	64	5320	Ant 1	17.08	pass
	100	5500	Ant 1	17.1	pass
	140	5700	Ant 1	17.08	pass
	149	5745	Ant 1	17.12	pass
	165	5825	Ant 1	17.12	pass
11N20	36	5180	Ant 1	18.22	pass
	48	5240	Ant 1	18.18	pass
	52	5260	Ant 1	18.18	pass
	64	5320	Ant 1	18.18	pass
	100	5500	Ant 1	18.16	pass
	140	5700	Ant 1	18.20	pass
	149	5745	Ant 1	18.20	pass
	165	5825	Ant 1	18.22	pass
11N40	38	5190	Ant 1	36.42	pass
	46	5230	Ant 1	36.40	pass
	54	5270	Ant 1	36.38	pass
	62	5310	Ant 1	36.40	pass
	102	5510	Ant 1	36.38	pass
	134	5670	Ant 1	36.44	pass
	151	5755	Ant 1	36.38	pass
	159	5795	Ant 1	36.42	pass
11AC20	36	5180	Ant 1	18.18	pass
	48	5240	Ant 1	18.18	pass
	52	5260	Ant 1	18.16	pass
	64	5320	Ant 1	18.18	pass
	100	5500	Ant 1	18.16	pass
	140	5700	Ant 1	18.18	pass
	149	5745	Ant 1	18.18	pass
	165	5825	Ant 1	18.20	pass

	38	5190	Ant 1	36.38	pass
11AC40	46	5230	Ant 1	36.36	pass
	54	5270	Ant 1	36.38	pass
	62	5310	Ant 1	36.40	pass
	102	5510	Ant 1	36.36	pass
	134	5670	Ant 1	36.40	pass
	151	5755	Ant 1	36.36	pass
	159	5795	Ant 1	36.40	pass
11AC80	42	5210	Ant 1	75.60	pass
	58	5290	Ant 1	75.56	pass
	106	5530	Ant 1	75.68	pass
	155	5775	Ant 1	75.56	pass

5 Test Plot

5.1 11A_36 Ant 1


```
                                        * RBW  300 kHz      Marker 1 [T1 ]
                                        * VBW  1 MHz                    7.06 dBm
    Ref  30 dBm              Att  35 dB   SWT  20 ms         5.178400000 GHz

     30 Offset   1.5  dB                  OBW 17.100000000 MHz
                                          Temp 1 [T1 OBW]
     20                                                   -4.42 dBm          A
                                          5.171460000 GHz                   SGL
  1 PK                                    Temp 2 [T1 OBW]
  MAXH
     10                          1                        -4.15 dBm         LVL
                                          5.188560000 GHz

      0          T1                            T2

    -10

    -20
          SWP   500 of   500

    -30                                                                    3DB

    -40

    -50

    -60

    -70
    Start  5.165 GHz                  3 MHz/              Stop  5.195 GHz
```

Date: 26.SEP.2016 20:53:34

5.2 11A_48 Ant 1
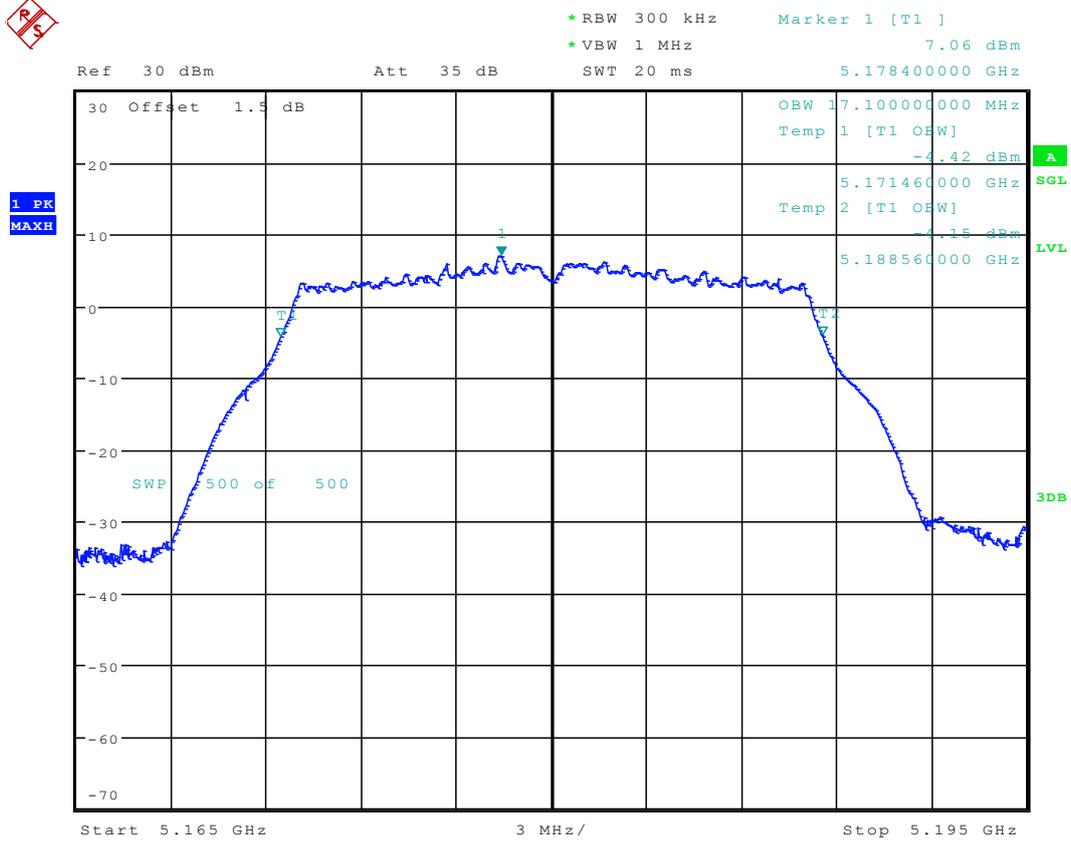
Date: 26.SEP.2016 21:00:45

5.3   11A_52 Ant 1
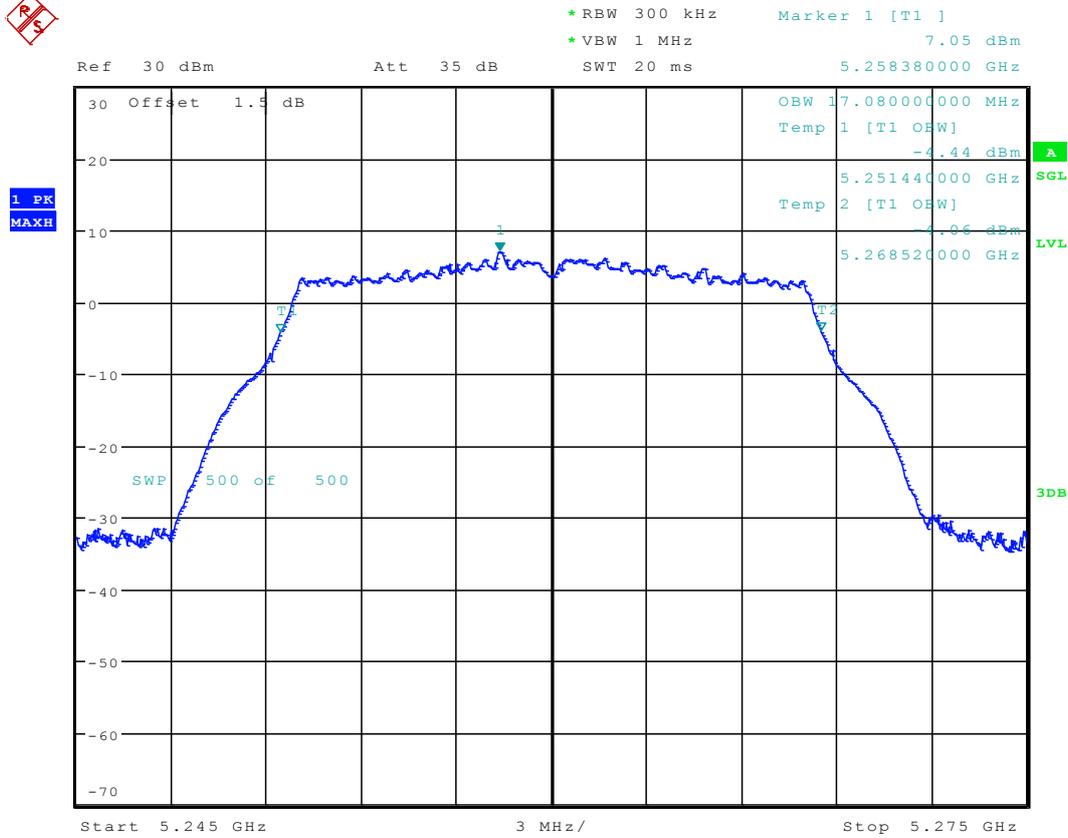
Date: 26.SEP.2016 21:07:01

5.4   11A_64 Ant 1
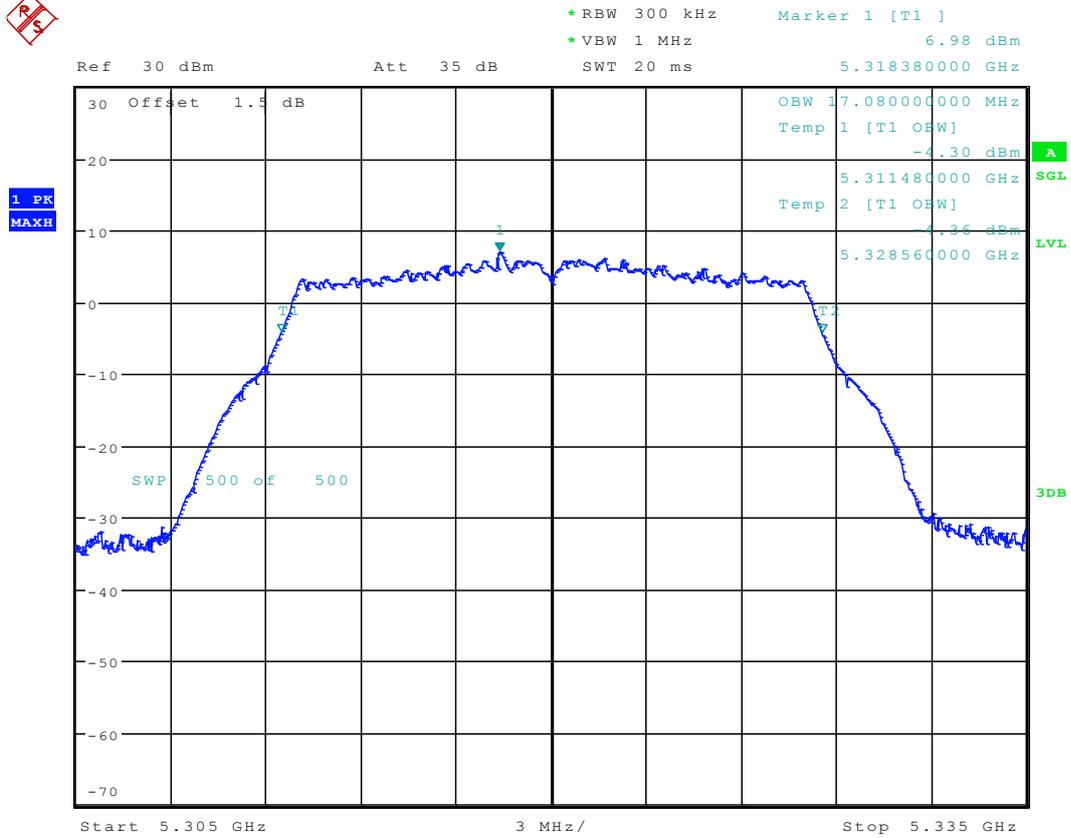
Date: 26.SEP.2016   21:11:44

5.5 11A_100 Ant 1

Date: 26.SEP.2016 21:23:48

5.6   11A_140 Ant 1

Date: 26.SEP.2016 21:29:00

5.7   11A_149 Ant 1


```
                                      * RBW 300 kHz        Marker 1 [T1 ]
                                      * VBW 1 MHz                    7.42 dBm
Ref  30 dBm              Att  35 dB    SWT 20 ms          5.743380000 GHz

30  Offset  1.5 dB                                OBW 17.120000000 MHz
                                                  Temp 1 [T1 OBW]
-20                                                         -4.18 dBm
                                                  5.736420000 GHz
                                                  Temp 2 [T1 OBW]
-10                                                         -3.85 dBm
                                                  5.753540000 GHz
  0

-10

-20

        SWP   500 of   500

-40

-50

-60

-70
Start 5.73 GHz                    3 MHz/              Stop 5.76 GHz
```
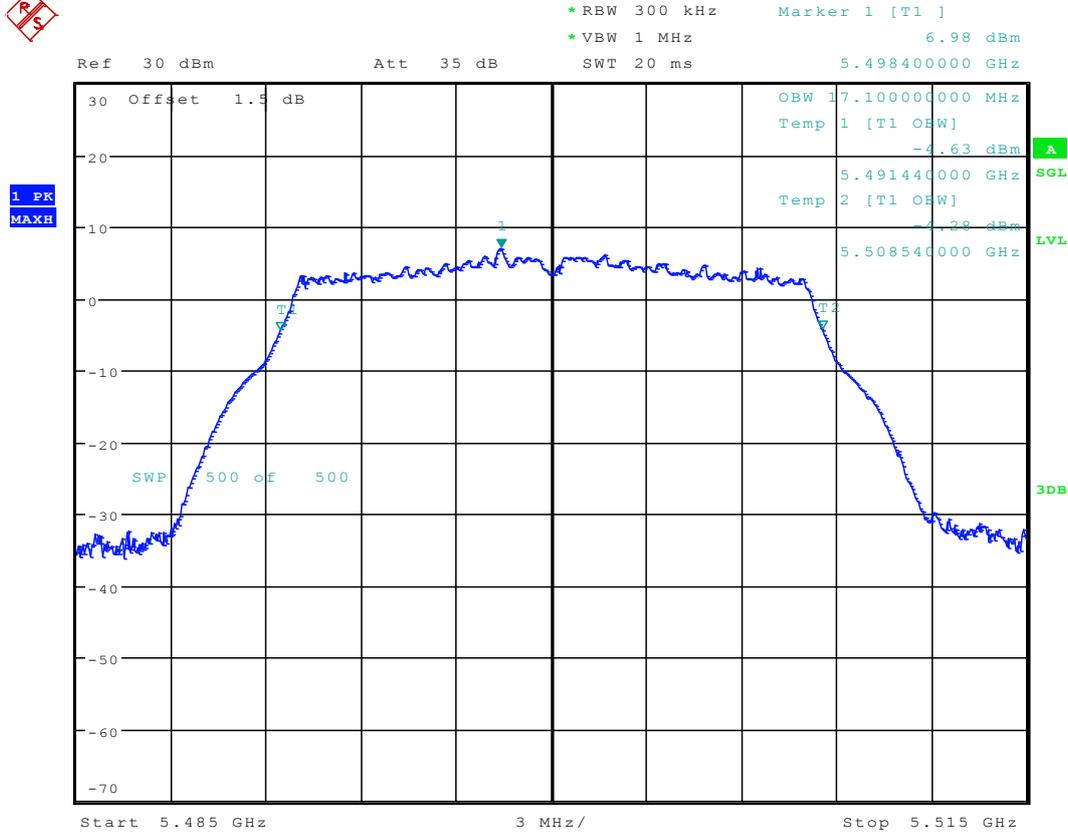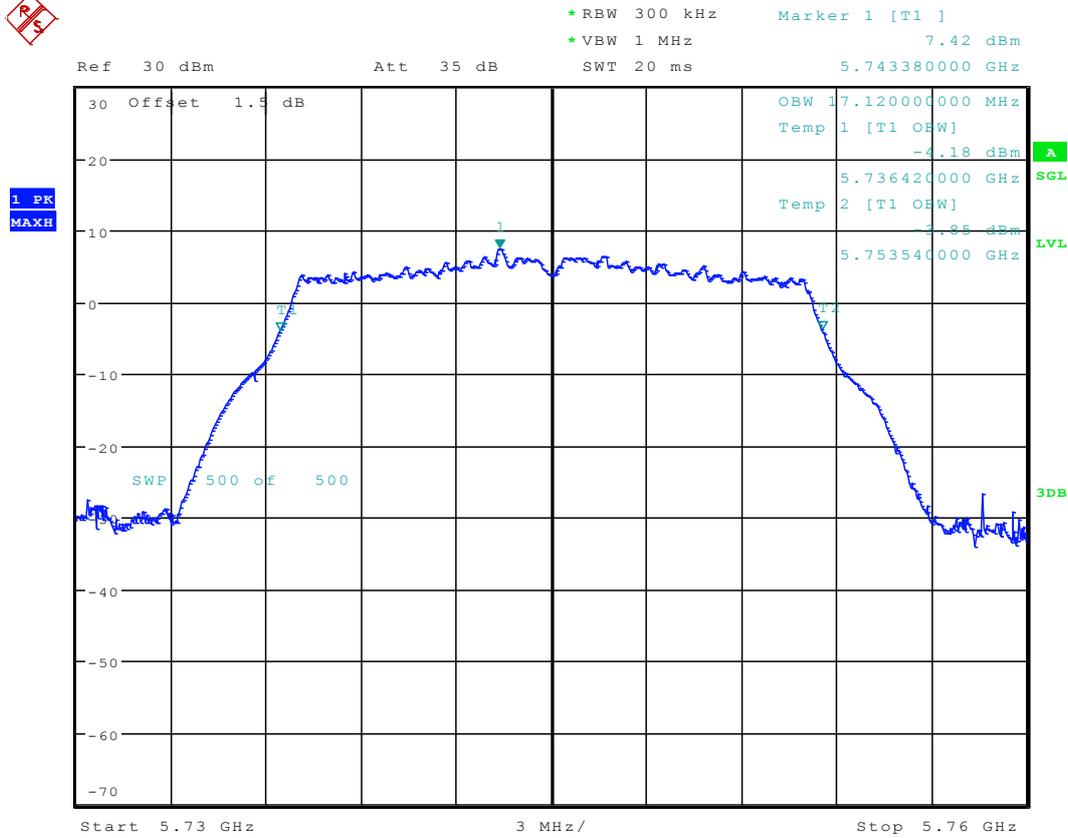
Date: 26.SEP.2016 21:37:44

5.8   11A_165 Ant 1
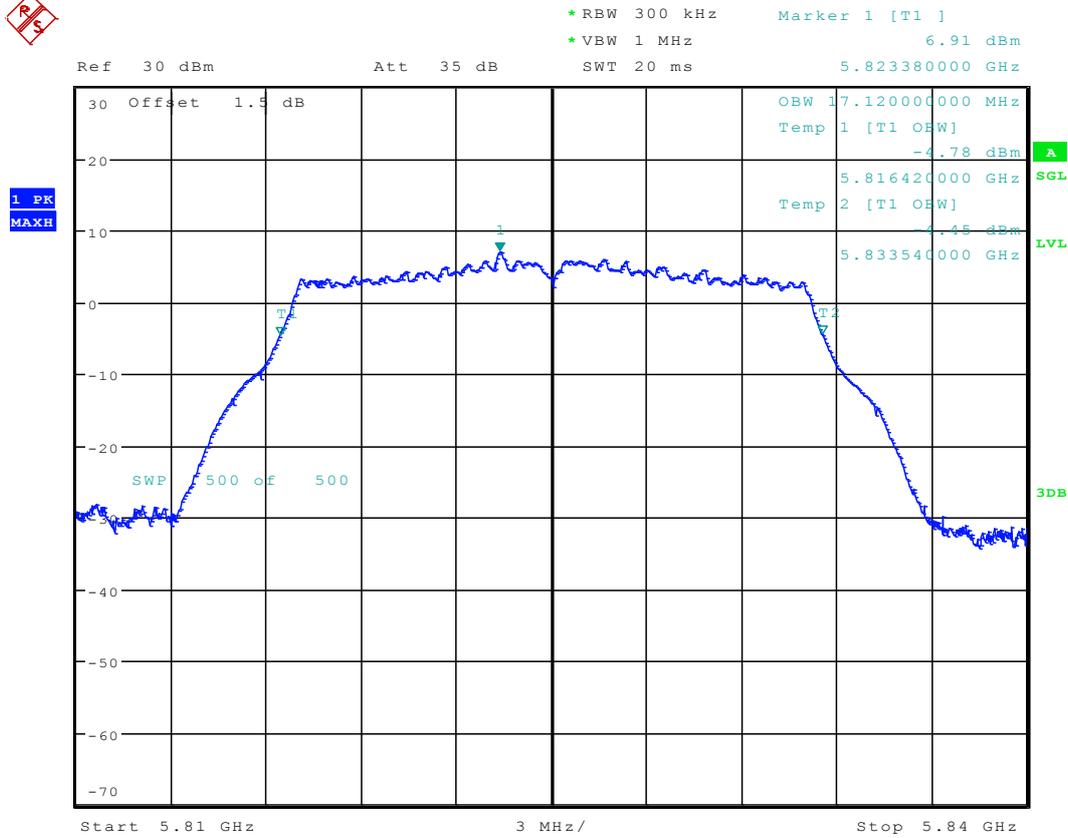
Date: 26.SEP.2016   21:48:05

5.9 11N20_36 Ant 1
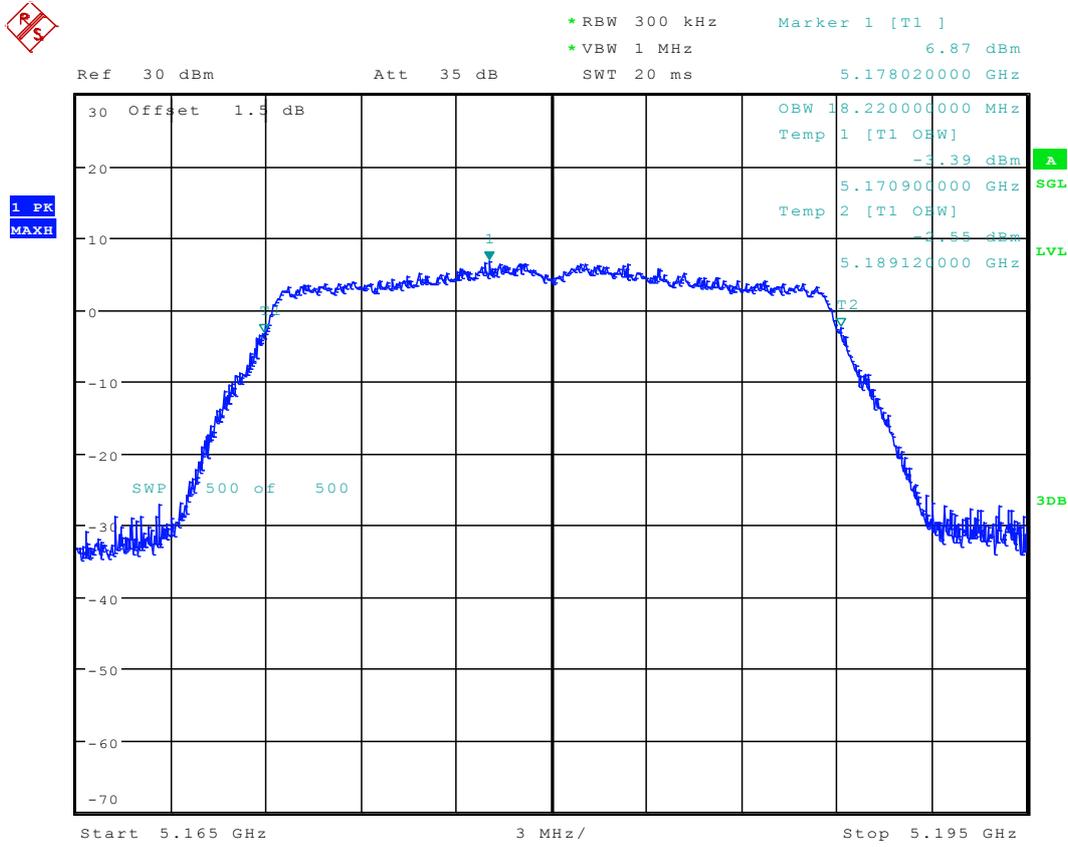
Date: 27.SEP.2016 12:09:31

5.10 11N20_48 Ant 1

Date: 27.SEP.2016 12:14:35

5.11 11N20_52 Ant 1

Date: 27.SEP.2016 12:24:40

5.12 11N20_64 Ant 1

Date: 27.SEP.2016 12:31:15

5.13 11N20_100 Ant 1

Date: 27.SEP.2016 12:41:11

5.14 11N20_140 Ant 1


```
 * RBW  300 kHz          Marker 1 [T1 ]
 * VBW  1 MHz                      6.35 dBm
Ref  30 dBm        Att  35 dB    SWT 20 ms      5.698980000 GHz
 30  Offset  1.5 dB                 OBW 18.200000000 MHz
                                     Temp 1 [T1 OBW]
 20                                           -3.36 dBm
                                     5.690920000 GHz
 10                                  Temp 2 [T1 OBW]
                                           -3.72 dBm
  0                                  5.709120000 GHz
-10
-20
      SWP  500 of  500
-40
-50
-60
-70
Start  5.685 GHz         3 MHz/        Stop  5.715 GHz
```
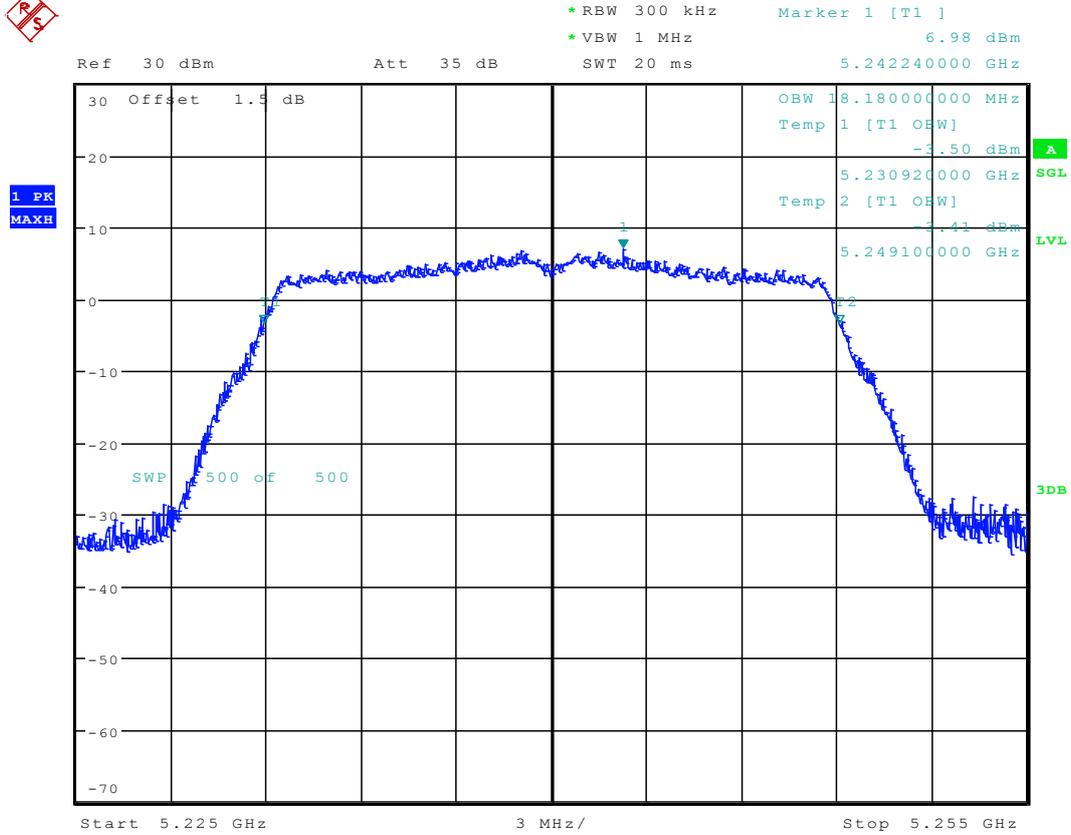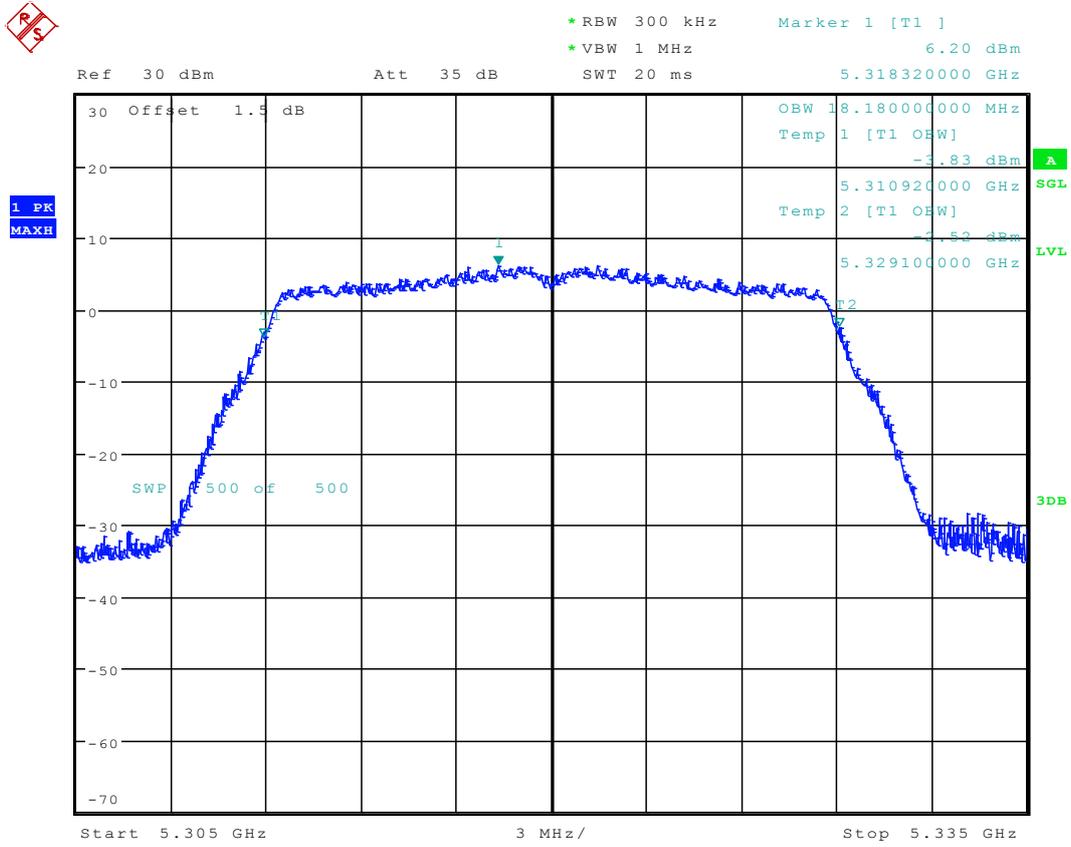
Date: 27.SEP.2016 12:51:32

5.15 11N20_149 Ant 1
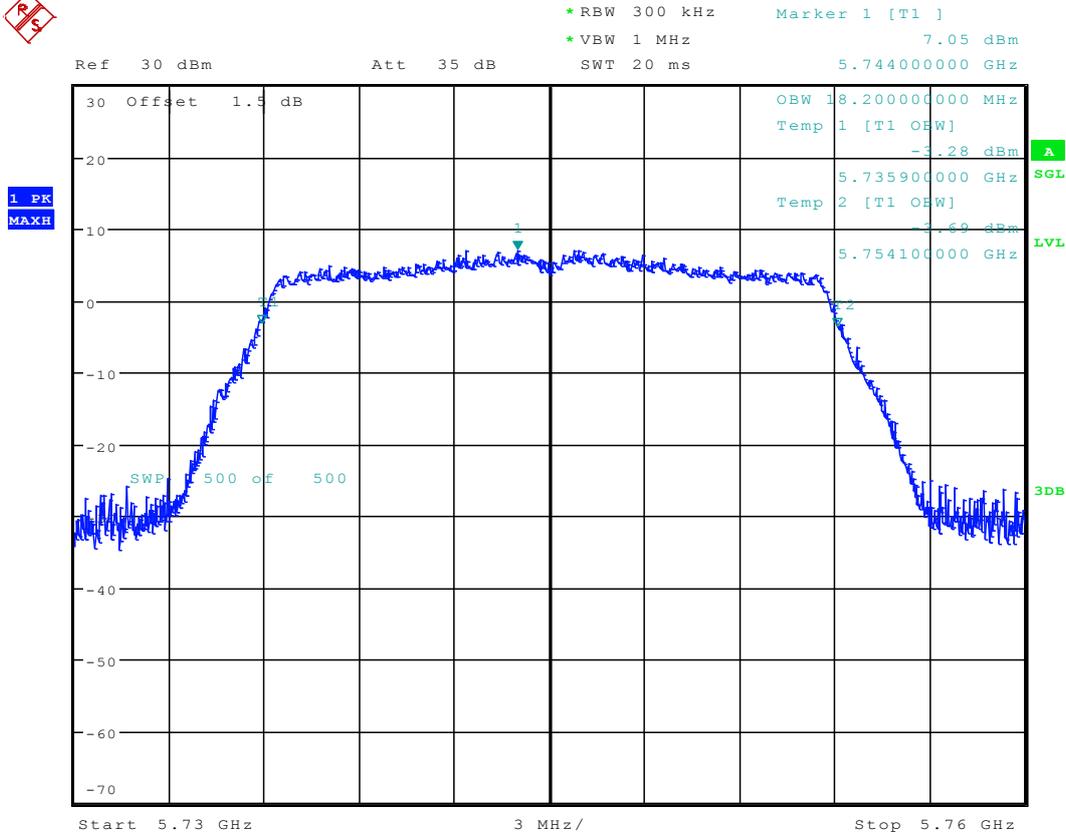
Date: 27.SEP.2016 12:59:40

5.16 11N20_165 Ant 1
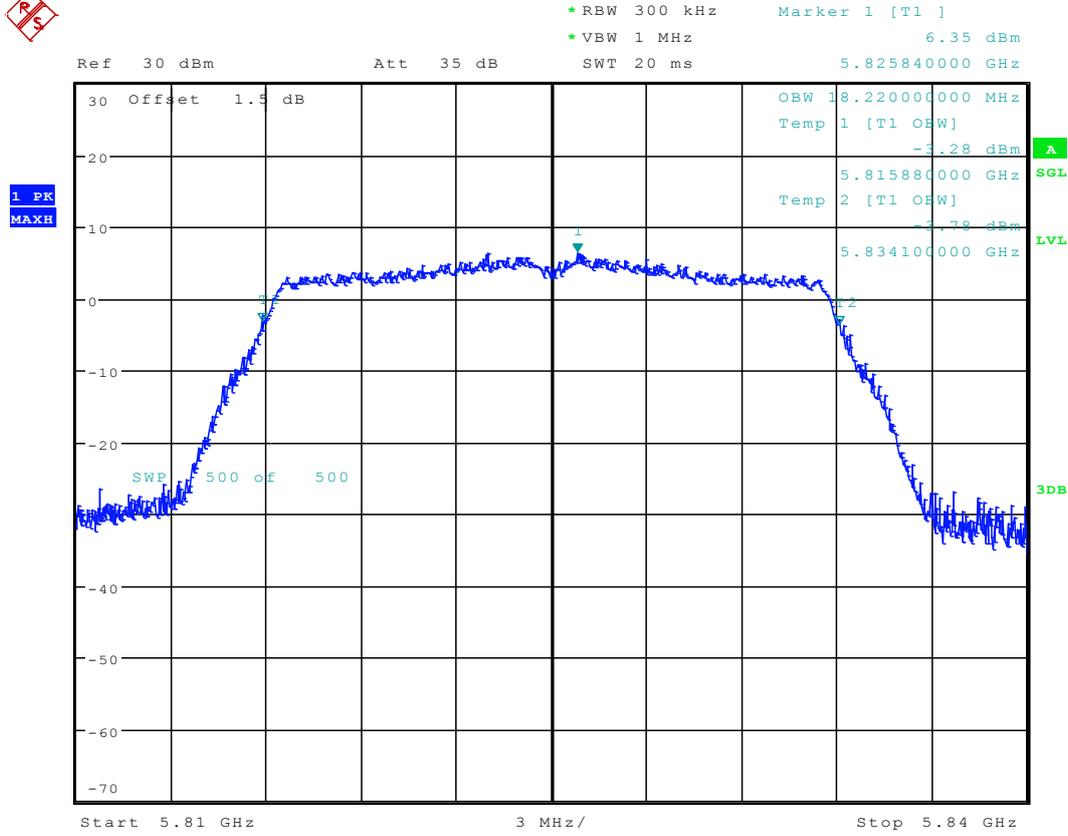
Date: 27.SEP.2016 13:05:39

5.17 11N40_38 Ant 1


```
* RBW  500 kHz          Marker 1 [T1 ]
* VBW  2 MHz                     5.31 dBm
  SWT  20 ms            5.191360000 GHz

Ref  30 dBm        Att  35 dB

30  Offset  1.5 dB        OBW 36.420000000 MHz
                          Temp 1 [T1 OBW]
20                                  -2.43 dBm     A
                          5.171820000 GHz         SGL
1 PK                      Temp 2 [T1 OBW]
MAXH  10                             -1.53 dBm     LVL
                          5.208240000 GHz
0
-10
-20
        SWP  500 of  500                          3DB
-30
-40
-50
-60
-70
Start  5.16 GHz          6 MHz/         Stop  5.22 GHz
```
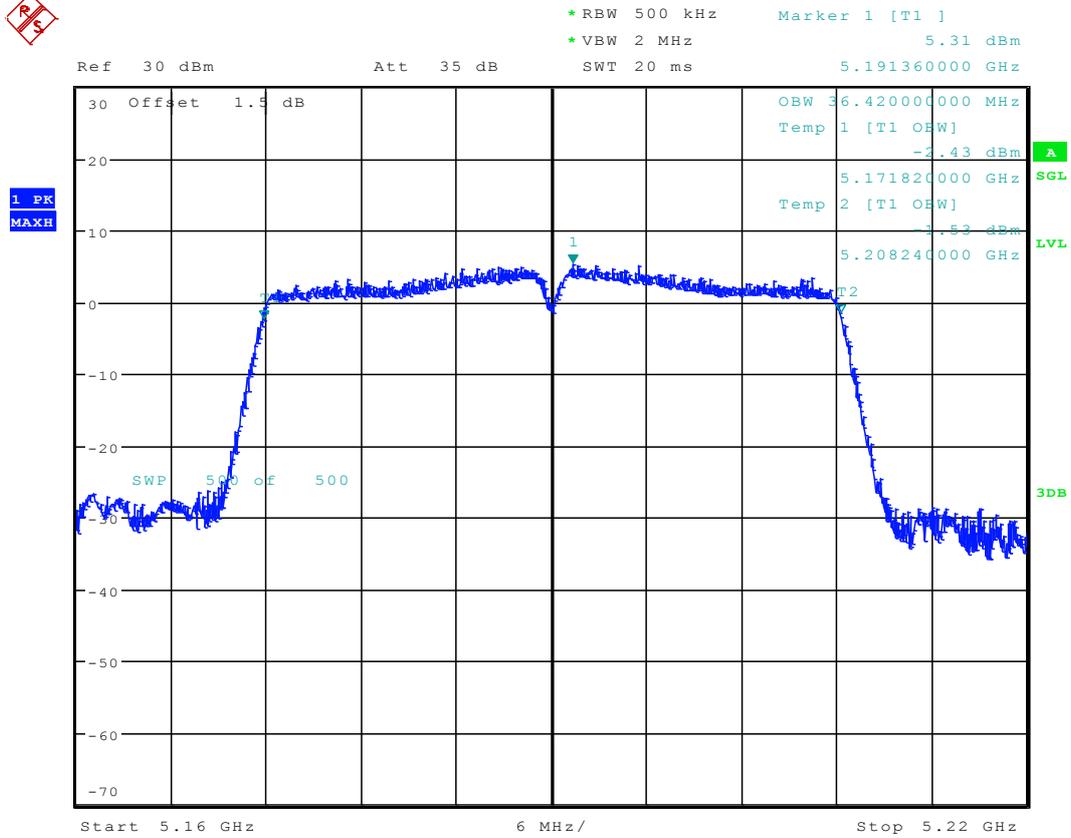
Date: 27.SEP.2016 13:26:34

5.18 11N40_46 Ant 1
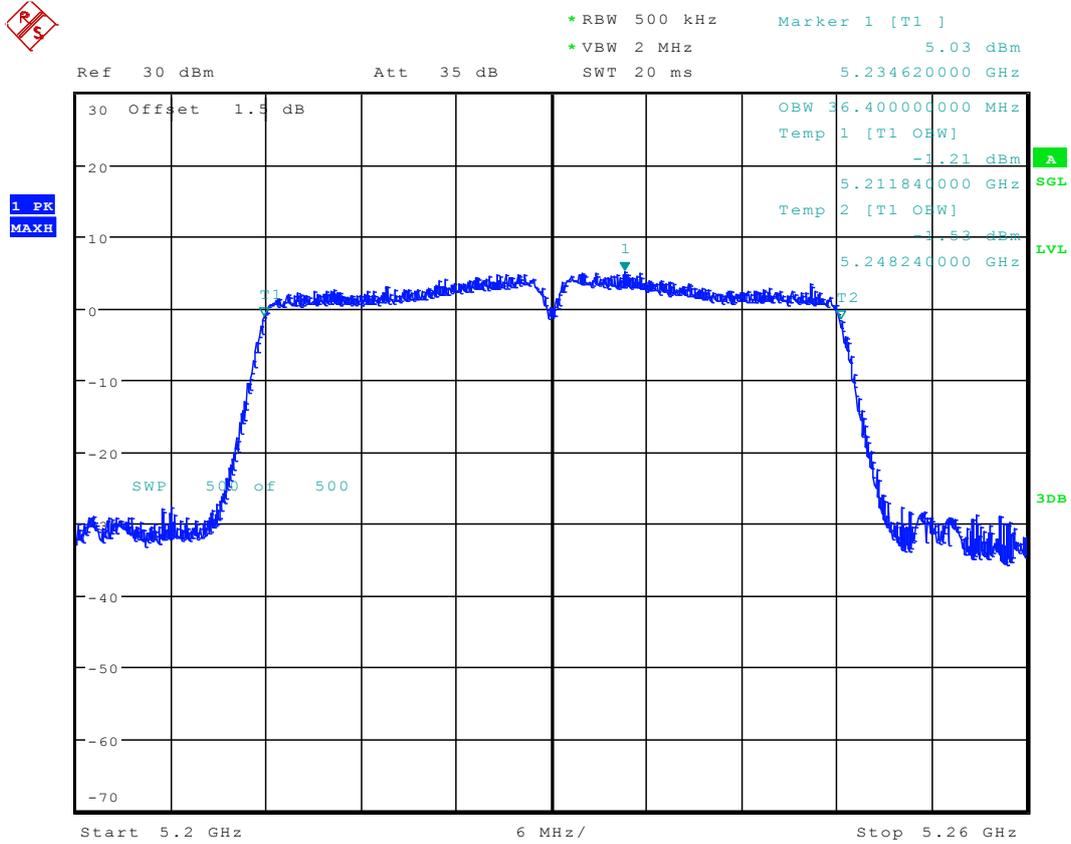
Date: 27.SEP.2016 13:43:15

5.19   11N40_54 Ant 1


```
                                           *RBW  500 kHz      Marker 1 [T1 ]
                                           *VBW  2 MHz                 4.86 dBm
     Ref  30 dBm              Att  35 dB    SWT 20 ms        5.272780000 GHz
      30  Offset  1.5 dB                              OBW 36.380000000 MHz
                                                     Temp 1 [T1 OBW]
       20                                                     -1.12 dBm
                                                     5.251860000 GHz
                                                     Temp 2 [T1 OBW]
       10                                                     -1.92 dBm
                                           1                 5.288240000 GHz
        0
                      T1                                     T2
      -10
      -20
              SWP    500 of   500
      -40
      -50
      -60
      -70
     Start  5.24 GHz              6 MHz/              Stop  5.3 GHz
```

Date: 27.SEP.2016 13:48:20

5.20   11N40_62 Ant 1

Date: 27.SEP.2016 15:27:36

5.21 11N40_102 Ant 1

Date: 27.SEP.2016 15:36:30

5.22 11N40_134 Ant 1

Date: 27.SEP.2016 15:42:59

5.23 11N40_151 Ant 1


```
                                    * RBW  500 kHz      Marker 1 [T1 ]
                                    * VBW  2 MHz                  5.55 dBm
     Ref  30 dBm          Att  35 dB   SWT  20 ms       5.756660000 GHz

      30  Offset  1.5 dB                     OBW 36.380000000 MHz
                                             Temp 1 [T1 OBW]
    -20                                              -1.49 dBm       A
                                             5.736820000 GHz        SGL
  1 PK
  MAXH  -10                                  Temp 2 [T1 OBW]
                                                   -1.50 dBm        LVL
                                             5.773200000 GHz

      0

    -10

    -20
          SWP  500 of   500                                         3DB

    -40

    -50

    -60

    -70
     Start  5.725 GHz              6 MHz/              Stop  5.785 GHz
```

Date: 27.SEP.2016 16:05:29

5.24 11N40_159 Ant 1


```
                                        * RBW  500 kHz        Marker 1 [T1 ]
                                        * VBW  2 MHz                    5.15 dBm
    Ref  30 dBm              Att  35 dB   SWT  20 ms        5.796500000 GHz

    30  Offset  1.5 dB                   OBW 36.420000000 MHz
                                         Temp 1 [T1 OBW]
   20                                               -2.18 dBm      A
                                         5.776780000 GHz           SGL
                                         Temp 2 [T1 OBW]
   10                                               -1.88 dBm      LVL
                                         5.813200000 GHz
    0
                                                                  3DB
  -10

  -20
       SWP  500 of  500
  -30

  -40

  -50

  -60

  -70
    Start  5.765 GHz            6 MHz/            Stop  5.825 GHz
```

Date: 27.SEP.2016 16:12:35

5.25 11AC20_36 Ant 1


```
                                    * RBW  300 kHz      Marker 1 [T1 ]
                                    * VBW  1 MHz                    7.13 dBm
Ref  30 dBm          Att  35 dB     SWT 20 ms       5.182280000 GHz
 30  Offset  1.5 dB                                OBW 18.180000000 MHz
                                                   Temp 1 [T1 OBW]
  20                                                        -3.26 dBm
                                                   5.170920000 GHz
                                                   Temp 2 [T1 OBW]
  10                                                        -3.30 dBm
                                                   5.189100000 GHz

   0

 -10

 -20
         SWP   500 of   500
 -30

 -40

 -50

 -60

 -70
Start  5.165 GHz              3 MHz/              Stop  5.195 GHz
```

Date: 27.SEP.2016 16:20:46

5.26 11AC20_48 Ant 1

Date: 27.SEP.2016 16:27:37

5.27 11AC20_52 Ant 1

Date: 27.SEP.2016 16:33:08

5.28 11AC20_64 Ant 1


```
                                          *RBW  300 kHz      Marker 1 [T1 ]
                                          *VBW  1 MHz                  6.42 dBm
         Ref  30 dBm           Att  35 dB  SWT  20 ms       5.321500000 GHz

          30  Offset  1.5 dB                        OBW 18.180000000 MHz
                                                    Temp 1 [T1 OBW]
          -20                                              -3.61 dBm       A
                                                    5.310940000 GHz       SGL
   1 PK                                             Temp 2 [T1 OBW]
   MAXH    -10                                             -3.86 dBm       LVL
                                                    5.329120000 GHz
           0
          -10
          -20
                 SWP  500 of  500                                         3DB
          -30
          -40
          -50
          -60
          -70
         Start  5.305 GHz              3 MHz/           Stop  5.335 GHz
```

Date: 27.SEP.2016 16:38:45

5.29   11AC20_100 Ant 1


```
                                     * RBW  300 kHz        Marker 1 [T1 ]
                                     * VBW  1 MHz                  6.81 dBm
     Ref  30 dBm          Att  35 dB   SWT 20 ms        5.499020000 GHz

       30  Offset  1.5  dB                        OBW 18.160000000 MHz
                                                  Temp 1 [T1 OBW]
      -20                                                -2.96 dBm        A
                                                  5.490920000 GHz         SGL
 1 PK                                             Temp 2 [T1 OBW]
 MAXH  -10                                               -3.24 dBm        LVL
                                                  5.509080000 GHz
        0

      -10

      -20
       SWP  500 of   500                                                  3DB
      -30

      -40

      -50

      -60

      -70
     Start 5.485 GHz              3 MHz/            Stop 5.515 GHz
```

Date: 27.SEP.2016 16:46:49

5.30 11AC20_140 Ant 1

Date: 27.SEP.2016 16:52:07

5.31 11AC20_149 Ant 1
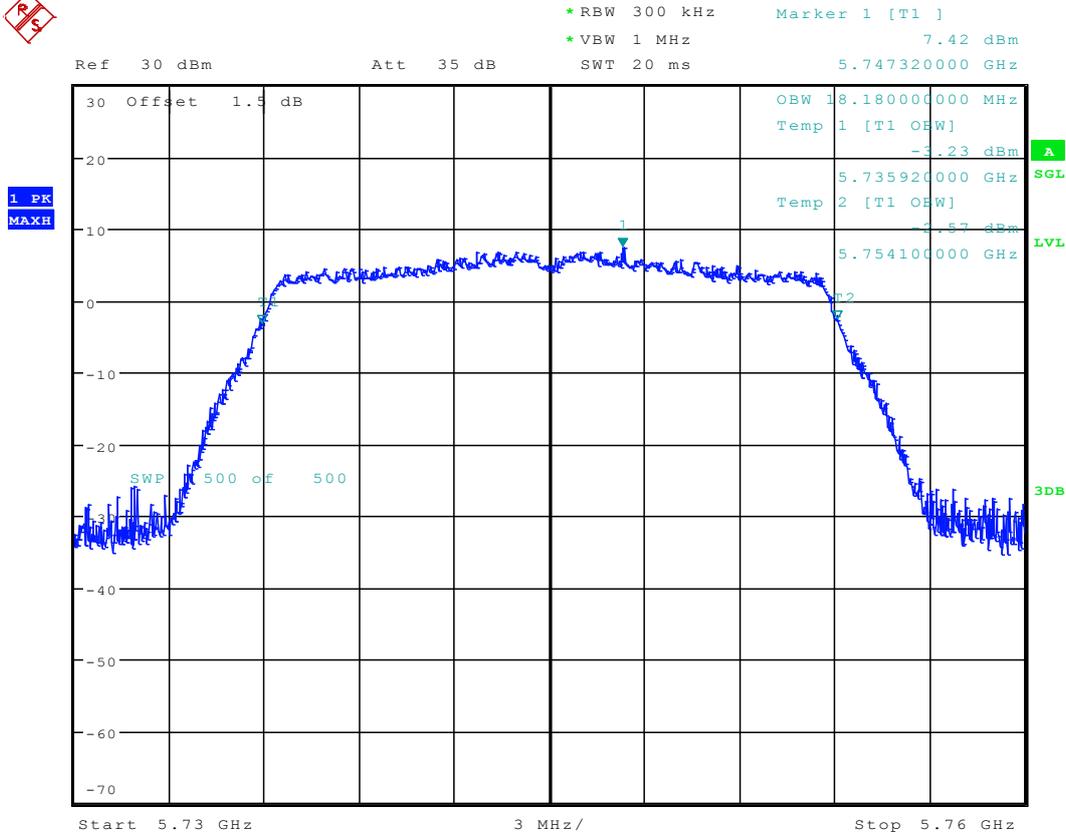
Date: 27.SEP.2016 17:10:40

5.32 11AC20_165 Ant 1


```
* RBW  300 kHz      Marker 1 [T1 ]
* VBW  1 MHz                        6.02 dBm
Ref  30 dBm        Att  35 dB    SWT  20 ms       5.823980000 GHz

30  Offset  1.5 dB                  OBW 18.200000000 MHz
                                    Temp 1 [T1 OBW]
20                                            -4.15 dBm
                                    5.815900000 GHz
                                    Temp 2 [T1 OBW]
10
                                    5.834100000 GHz
0

-10

-20

-40

-50

-60

-70
Start  5.81 GHz              3 MHz/            Stop  5.84 GHz
```

Date: 27.SEP.2016 19:33:58

5.33 11AC40_38 Ant 1


```
                                              *RBW  500 kHz      Marker 1 [T1 ]
                                              *VBW  2 MHz                  4.41 dBm
  Ref  30 dBm              Att  35 dB          SWT 20 ms         5.185020000 GHz

   30  Offset   1.5  dB                                 OBW 36.380000000 MHz
                                                        Temp 1 [T1 OBW]
  -20                                                              -2.76 dBm     A
                                                        5.171820000 GHz          SGL
  1 PK                                                  Temp 2 [T1 OBW]
  MAXH 10                                                          -2.76 dBm     LVL
                                                        5.208200000 GHz
    0
  -10

  -20
        SWP   500 of   500                                                       3DB
  -40

  -50

  -60

  -70
  Start  5.16 GHz                    6 MHz/                    Stop  5.22 GHz
```

Date: 27.SEP.2016 19:43:15

5.34 11AC40_46 Ant 1

Date: 27.SEP.2016 19:59:32

5.35 11AC40_54 Ant 1

Date: 27.SEP.2016 20:11:28

5.36 11AC40_62 Ant 1

Date: 27.SEP.2016 20:18:44

5.37 11AC40_102 Ant 1


```
R&S                                          *RBW 500 kHz      Marker 1 [T1 ]
                                             *VBW 2 MHz                  4.07 dBm
        Ref  30 dBm          Att  35 dB       SWT 20 ms         5.514340000 GHz

        30  Offset  1.5 dB                             OBW 36.360000000 MHz
                                                       Temp 1 [T1 OBW]
         20                                                      -2.77 dBm      A
1 PK                                                        5.491820000 GHz     SGL
MAXH
         10                                            Temp 2 [T1 OBW]          LVL
                                               1                 -3.09 dBm
          0                                                 5.528180000 GHz

        -10

        -20
              SWP  500 of  500
        -30

        -40

        -50

        -60                                                                    3DB

        -70
        Start  5.48 GHz              6 MHz/              Stop  5.54 GHz
```
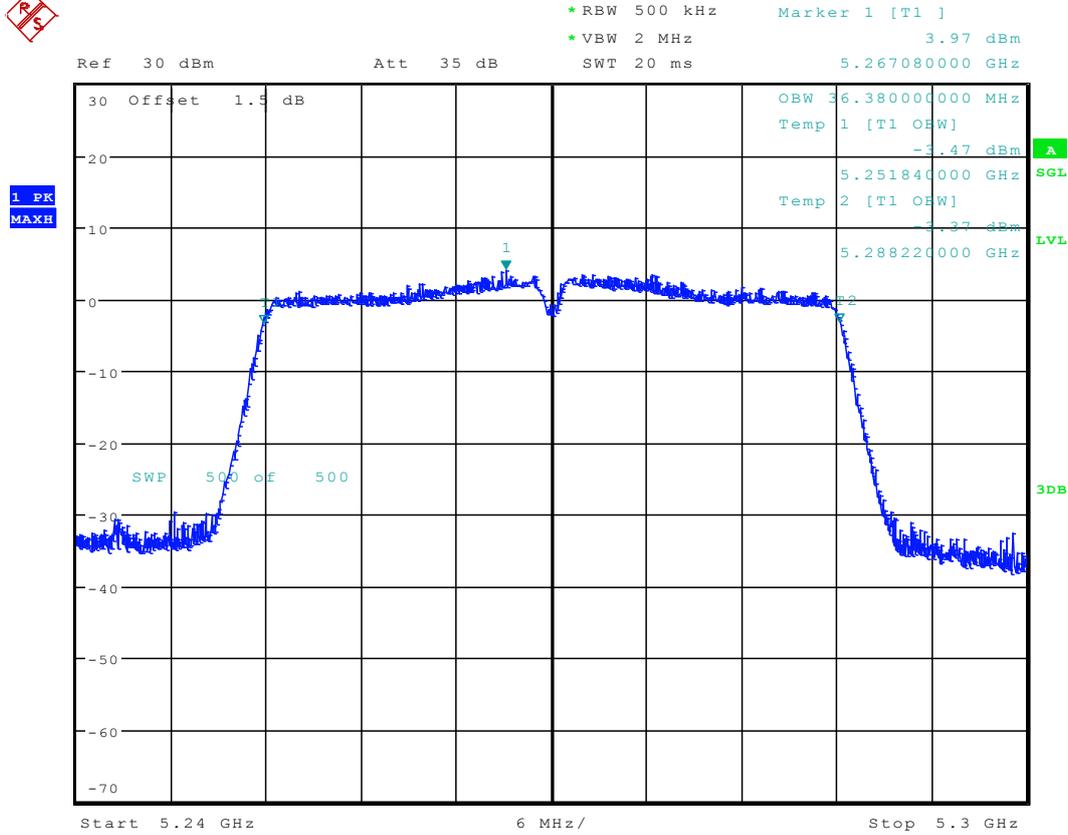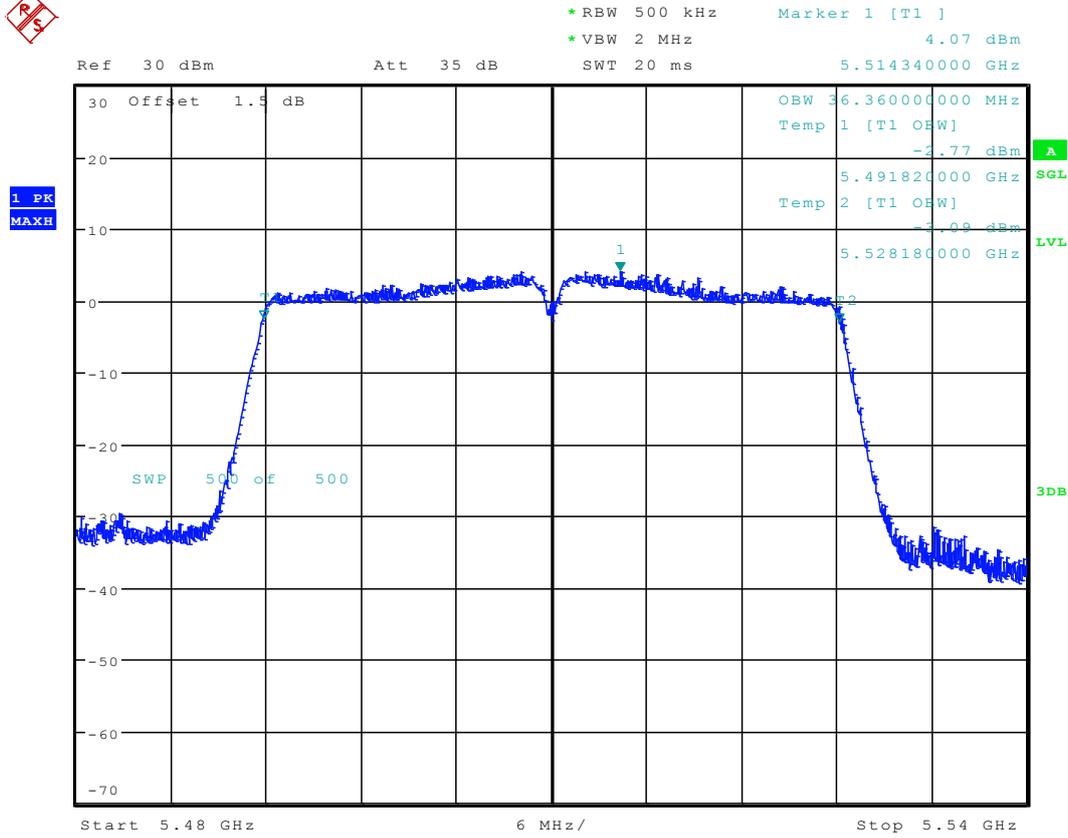
Date: 27.SEP.2016 20:26:40

5.38 11AC40_134 Ant 1

Date: 27.SEP.2016 20:32:55

5.39 11AC40_151 Ant 1

Date: 27.SEP.2016 21:12:33

5.40 11AC40_159 Ant 1


```
                                        * RBW 500 kHz      Marker 1 [T1 ]
                                        * VBW 2 MHz                 4.65 dBm
  Ref  30 dBm              Att  35 dB     SWT 20 ms        5.792040000 GHz

   30  Offset  1.5 dB                    OBW 36.400000000 MHz
                                         Temp 1 [T1 OBW]
  -20                                                 -1.53 dBm     A
                                         5.776780000 GHz            SGL
                                         Temp 2 [T1 OBW]
   10                                                               LVL
    1                                    5.813180000 GHz
    0                                                               3DB

  -10

  -20
        SWP   500 of   500

  -40

  -50

  -60

  -70
   Start 5.765 GHz            6 MHz/            Stop 5.825 GHz
```
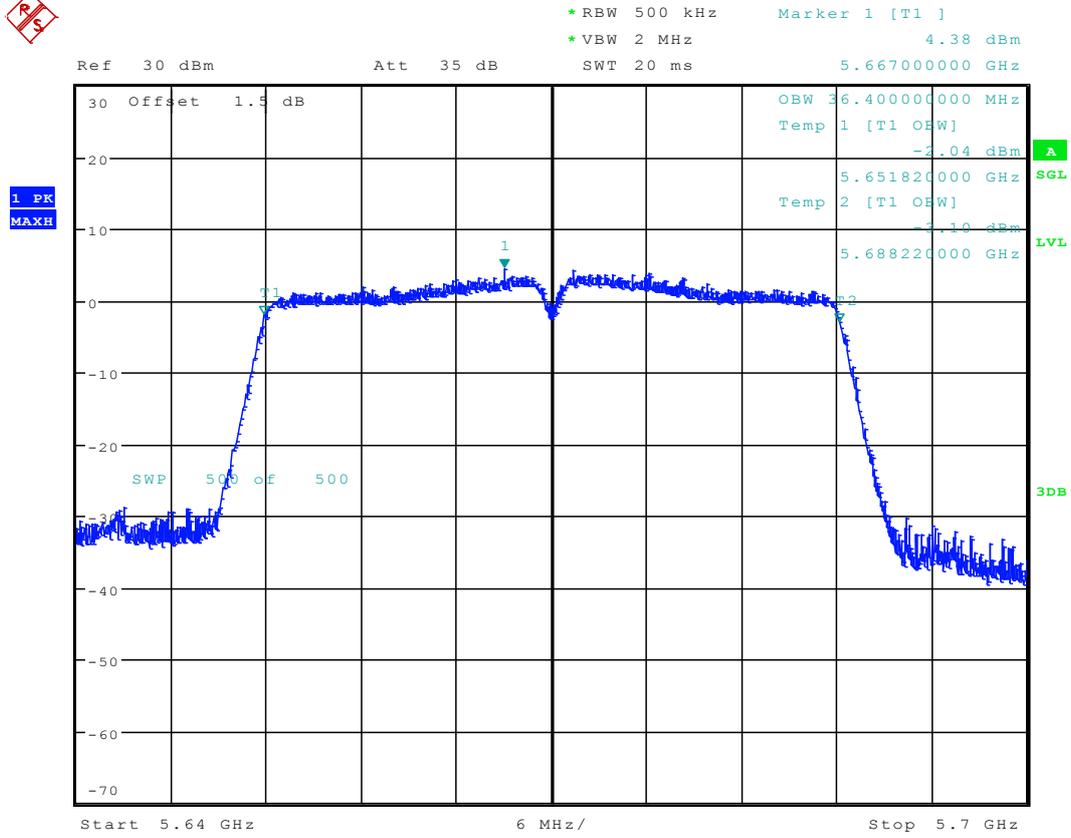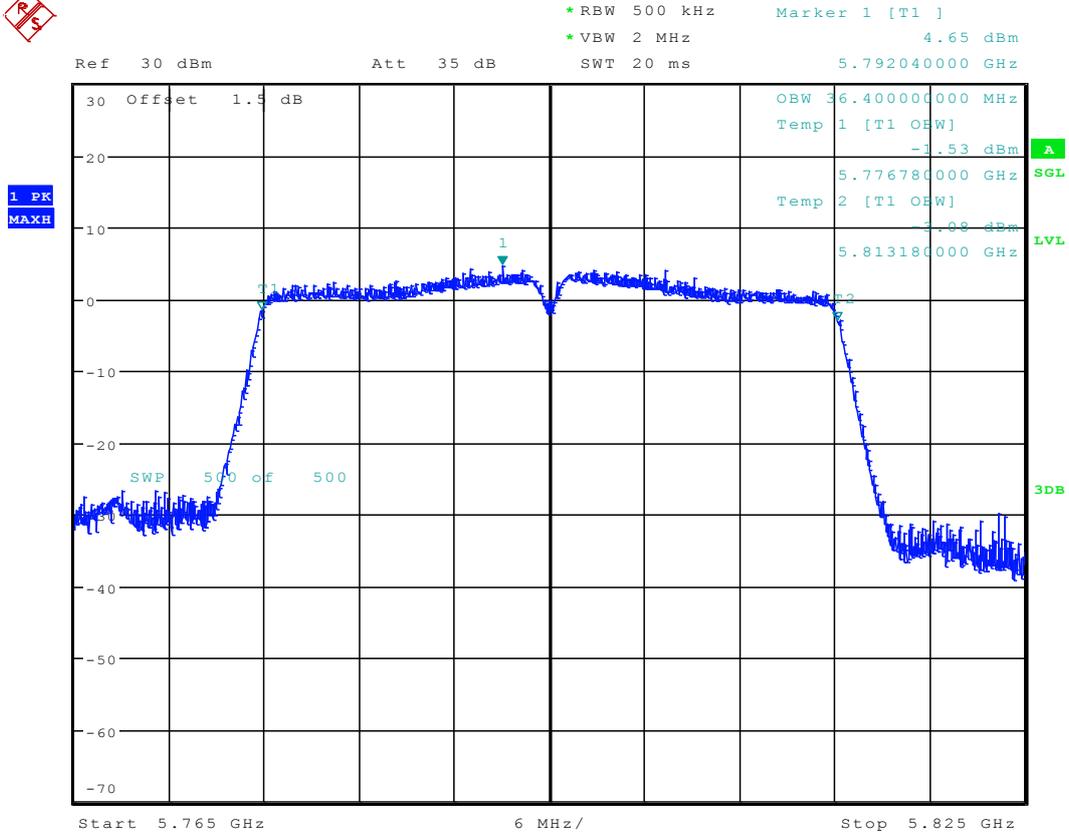
Date: 27.SEP.2016 21:21:44

5.41 11AC80_42 Ant 1
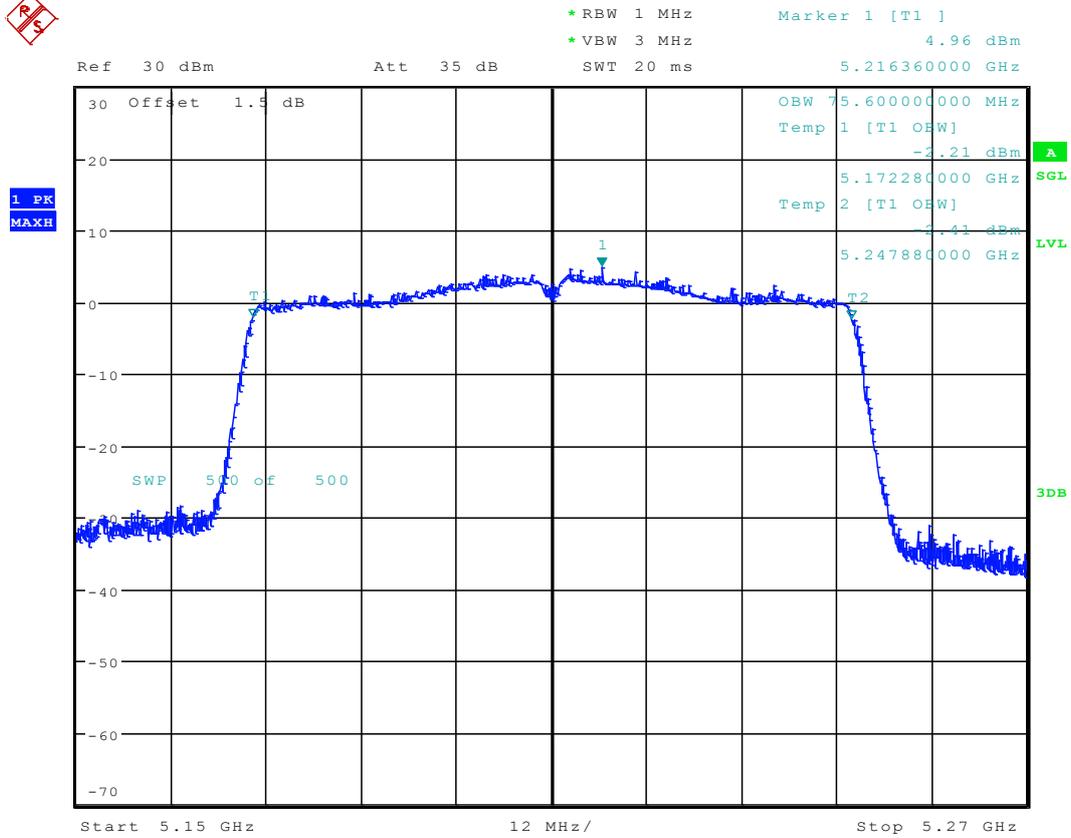
Date: 27.SEP.2016 21:33:49

5.42 11AC80_58 Ant 1
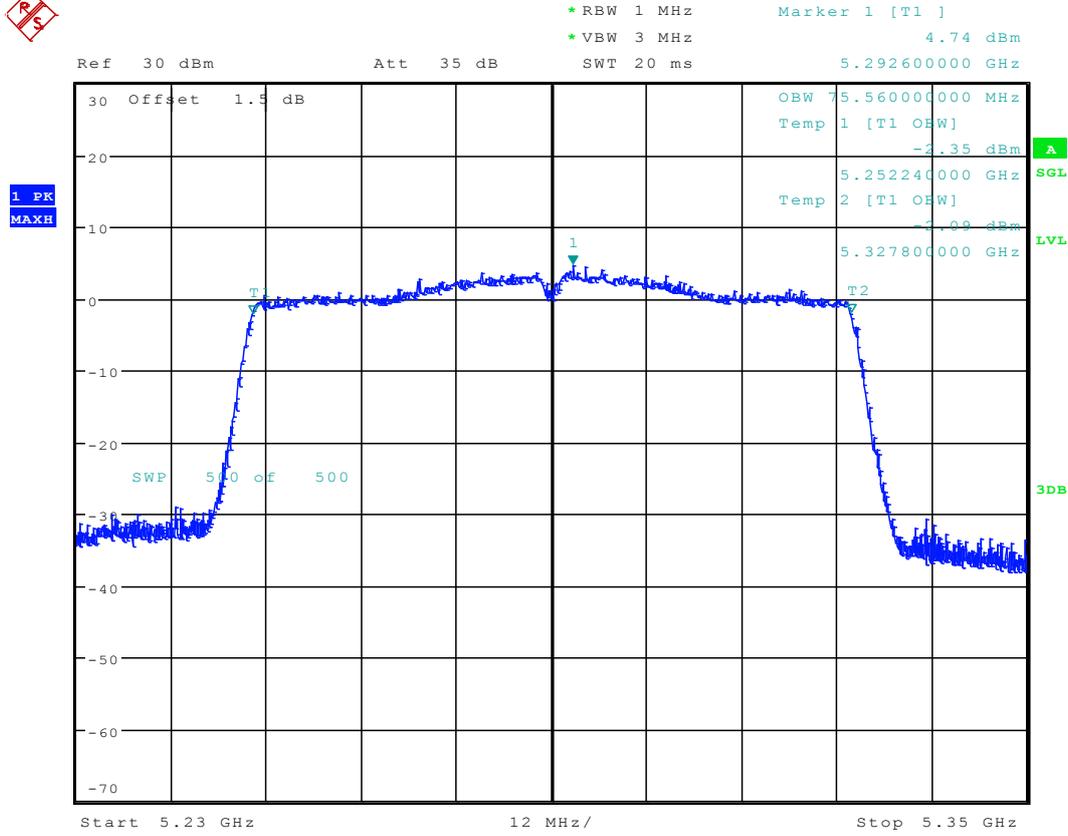
Date: 27.SEP.2016 21:42:04

5.43 11AC80_106 Ant 1
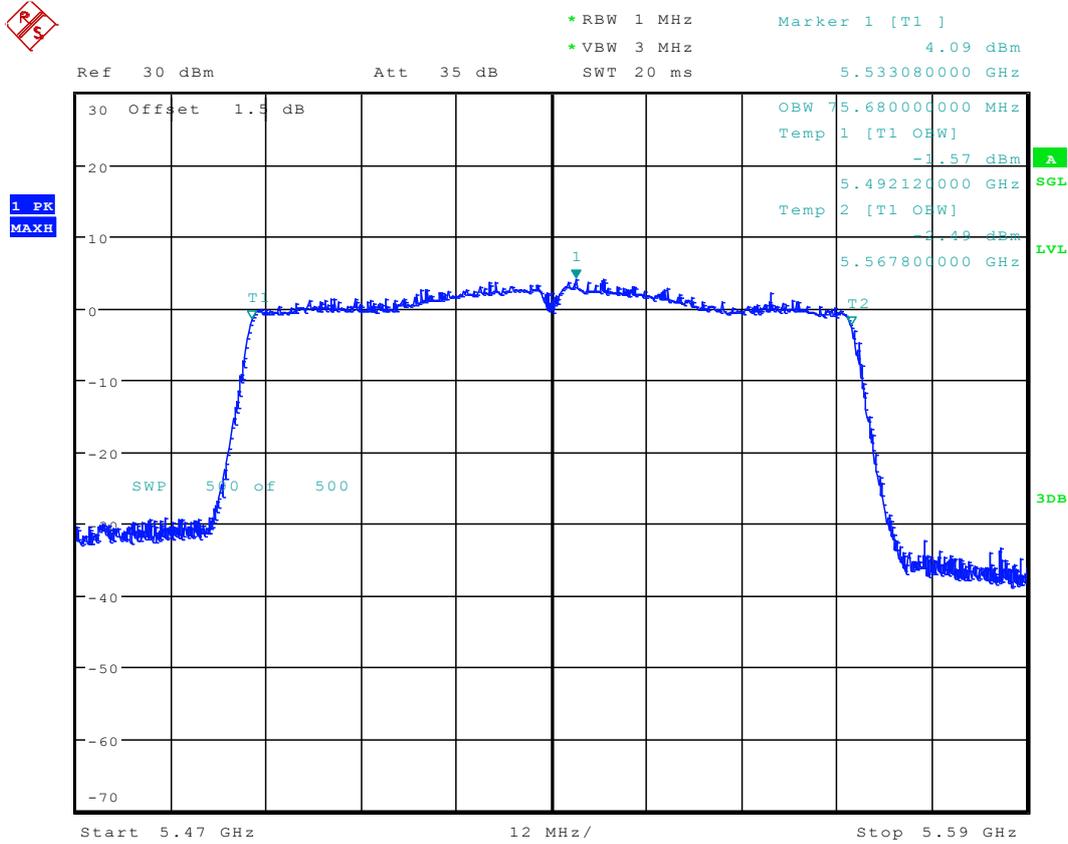
Date: 27.SEP.2016 21:47:10

5.44 11AC80_155 Ant 1


```
                                              * RBW  1 MHz        Marker 1 [T1 ]
                                              * VBW  3 MHz                 4.65 dBm
      Ref  30 dBm                Att  35 dB    SWT  20 ms        5.781400000 GHz
       30  Offset   1.5 dB                               OBW 75.560000000 MHz
                                                         Temp 1 [T1 OBW]
      -20                                                         -2.36 dBm
                                                         5.737160000 GHz
                                                         Temp 2 [T1 OBW]
   1 PK                                                           -2.25 dBm
   MAXH  -10                                              5.812720000 GHz
                                         1
         0
       -10

       -20
            SWP   500 of   500

       -30

       -40

       -50

       -60

       -70
      Start  5.715 GHz                 12 MHz/              Stop  5.835 GHz
```
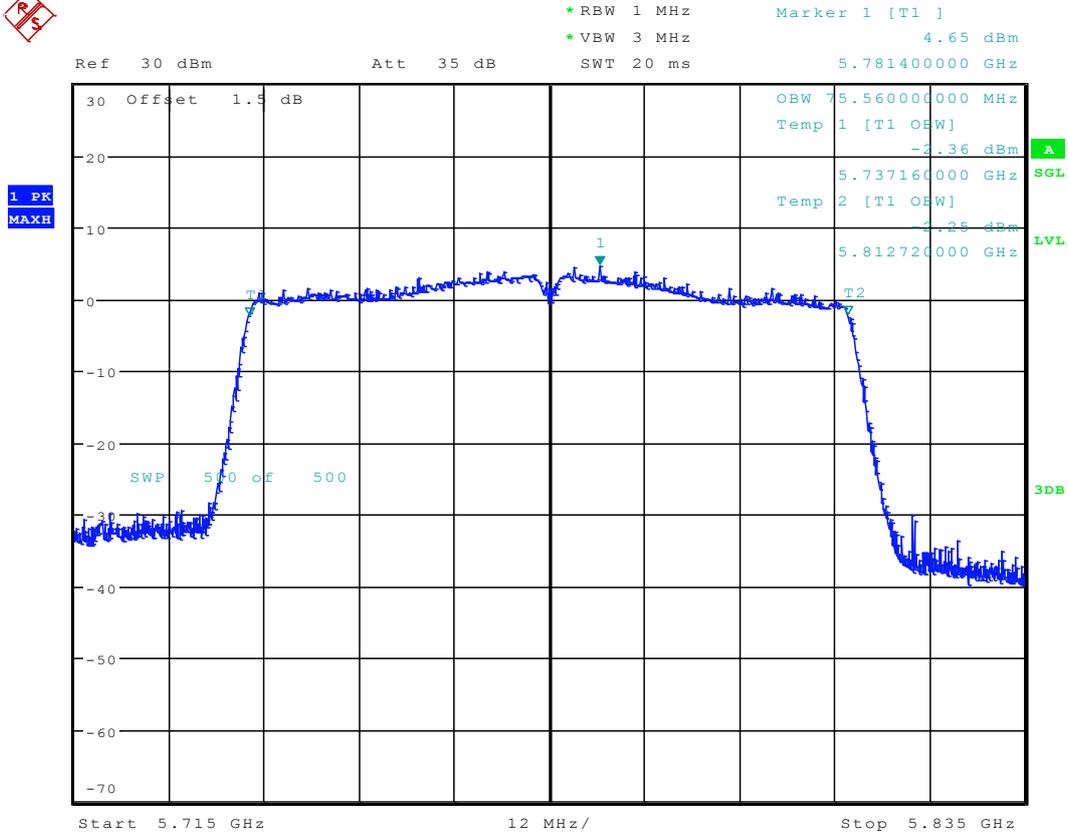
Date: 27.SEP.2016 21:57:15

Appendix C: Duty Cycle

6 Part I - Test Results

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Duty cycle [%]
11A	36,	5180	Ant 1	93
11A	48	5240	Ant 1	93
11A	52	5260	Ant 1	93
11A	64	5320	Ant 1	93
11A	100	5500	Ant 1	93
11A	140	5700	Ant 1	93
11A	149	5745	Ant 1	93
11A	165	5825	Ant 1	93
11N20	36	5180	Ant 1	93
11N20	48	5240	Ant 1	93
11N20	52	5260	Ant 1	93
11N20	64	5320	Ant 1	93
11N20	100	5500	Ant 1	93
11N20	140	5700	Ant 1	93
11N20	149	5745	Ant 1	93
11N20	165	5825	Ant 1	93
11N40	38	5190	Ant 1	87
11N40	46	5230	Ant 1	87
11N40	54	5270	Ant 1	87
11N40	62	5310	Ant 1	87
11N40	102	5510	Ant 1	87
11N40	134	5670	Ant 1	87
11N40	151	5755	Ant 1	87
11N40	159	5795	Ant 1	87
11AC20	36	5180	Ant 1	93
11AC20	48	5240	Ant 1	93
11AC20	52	5260	Ant 1	93
11AC20	64	5320	Ant 1	93
11AC20	100	5500	Ant 1	93
11AC20	140	5700	Ant 1	93
11AC20	149	5745	Ant 1	93
11AC20	165	5825	Ant 1	93
11AC40	38	5190	Ant 1	93

11AC40	46	5230	Ant 1	93
11AC40	54	5270	Ant 1	93
11AC40	62	5310	Ant 1	93
11AC40	102	5510	Ant 1	93
11AC40	134	5670	Ant 1	93
11AC40	151	5755	Ant 1	93
11AC40	159	5795	Ant 1	93
11AC80	42	5210	Ant 1	86
11AC80	58	5290	Ant 1	86
11AC80	106	5530	Ant 1	86
11AC80	155	5775	Ant 1	86

7   Test Plot

7.1   11A
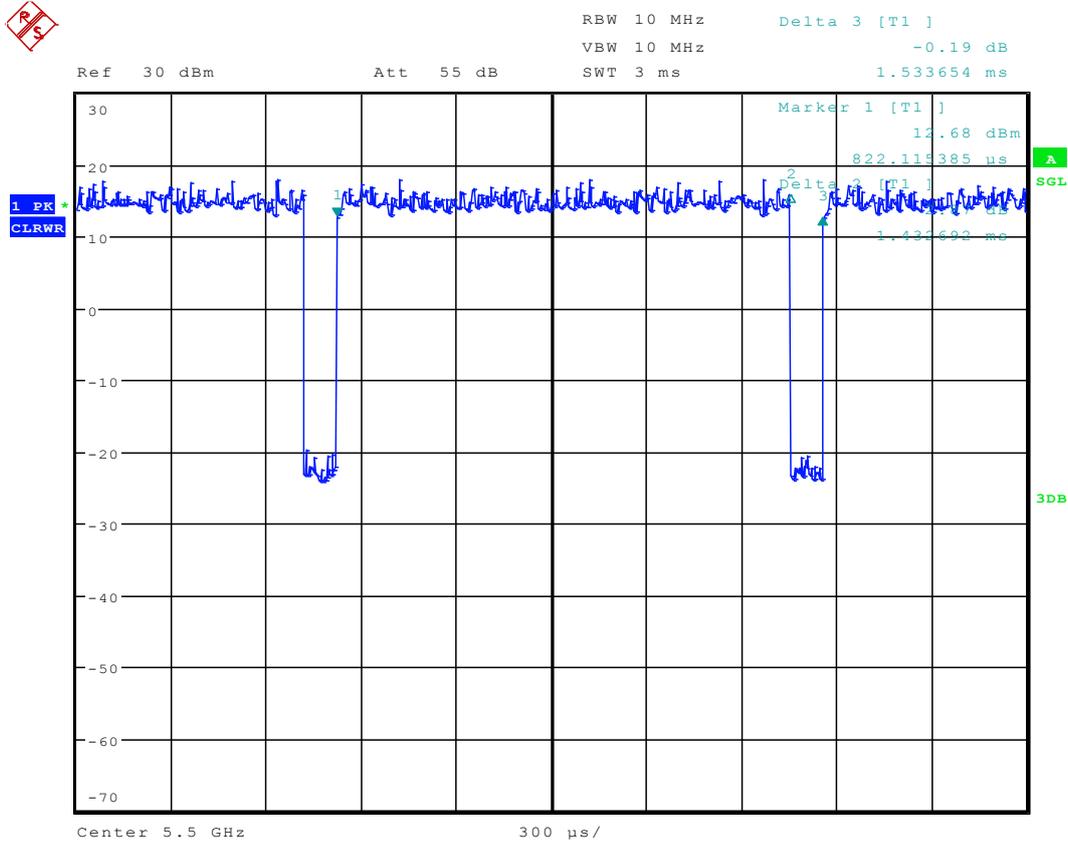
Date: 26.SEP.2016 19:11:16

7.2   11n20

RBW 10 MHz   Delta 3 [T1]
VBW 10 MHz   0.02 dB
SWT 4 ms   1.450321 ms

Ref 30 dBm   Att 55 dB

Marker 1 [T1]
                     13.06 dBm
                     1.228365 ms

Delta 2 [T1]

Center 5.5 GHz   400 µs/
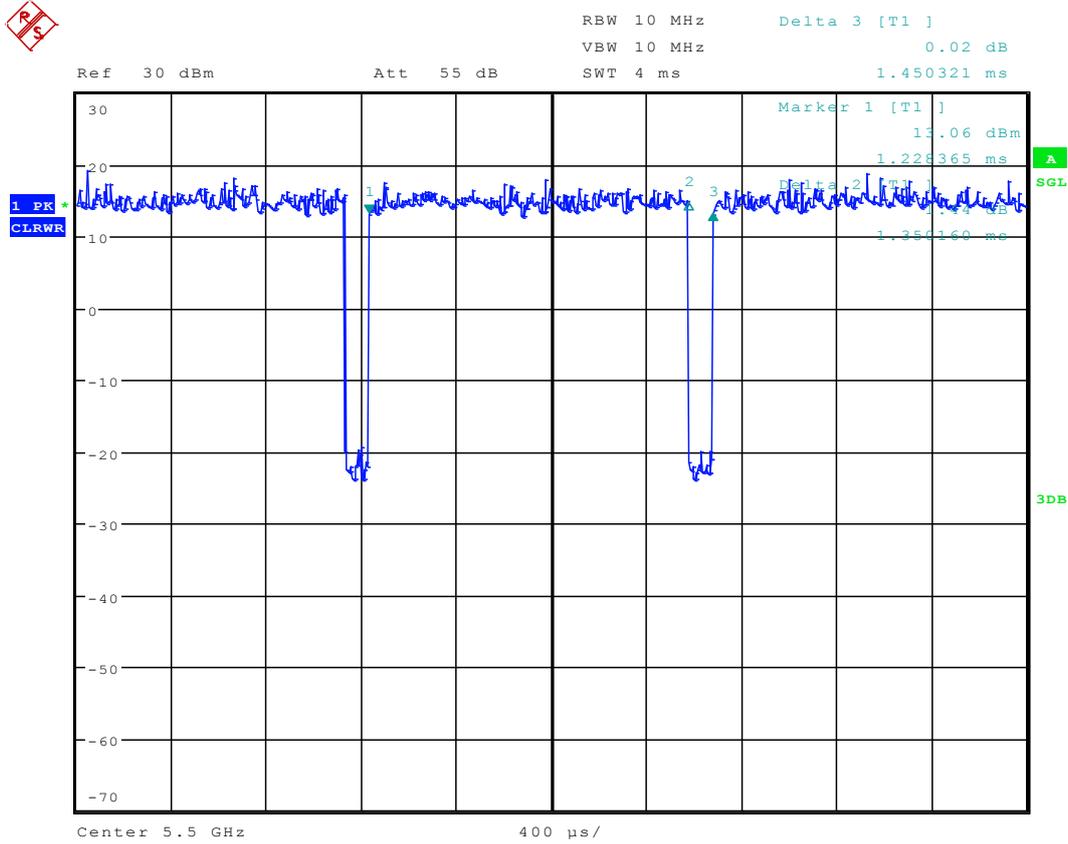
Date: 26.SEP.2016 20:50:12

7.3   11n40


```
                                              RBW  10 MHz      Delta 2 [T1 ]
                                              VBW  10 MHz                5.84 dB
                                              SWT  2 ms         615.384615 µs
      Ref   30 dBm              Att   55 dB

        30                                               Marker 1 [T1 ]
                                                                   1.70 dBm
      -20                                                   564.102564 µs     A
                                                         Delta 3 [T1 ]        SGL
  1 PK  *                                                           0.53 dB
  CLRWR                                                      717.949718 µs
      -10
                                                                             3DB

        0

      -10

      -20

      -30

      -40

      -50

      -60

      -70
      Center 5.53 GHz                         200 µs/
```

Date: 26.SEP.2016 20:43:47

7.4   11ac20


```
                                          RBW  10 MHz      Delta 3 [T1 ]
                                          VBW  10 MHz                0.09 dB
   Ref  30 dBm              Att  55 dB     SWT 3 ms            1.451923 ms

    30                                            Marker 1 [T1 ]
                                                           12.91 dBm
    20                                                961.538462 µs      A
1 PK                                              Delta 3 [T1 ]          SGL
CLRWR
    10

     0

   -10

   -20

   -30                                                                   3DB

   -40

   -50

   -60

   -70
   Center 5.5 GHz                          300 µs/
```

Date: 26.SEP.2016 19:16:52

7.5   11ac40

Date: 26.SEP.2016   20:41:31

7.6 11ac80
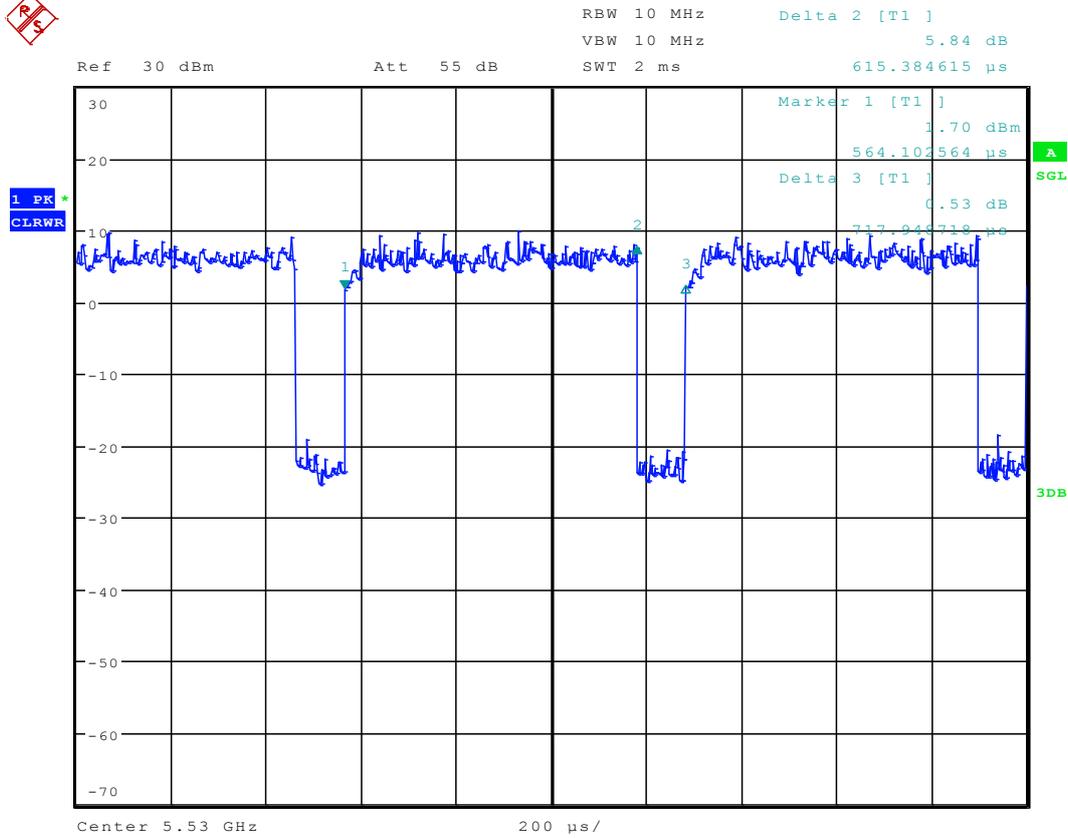
Date: 26.SEP.2016 20:43:47

Appendix D: Maximum Conducted Output Power

8   Result Table

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm]	Verdict
11A	36	5180	Ant 1	13.14	pass
	48	5240	Ant 1	13.06	pass
	52	5260	Ant 1	13.05	pass
	64	5320	Ant 1	12.93	pass
	100	5500	Ant 1	13.03	pass
	140	5700	Ant 1	13.32	pass
	149	5745	Ant 1	13.38	pass
	165	5825	Ant 1	12.88	pass
11N20	36	5180	Ant 1	13.12	pass
	48	5240	Ant 1	13.22	pass
	52	5260	Ant 1	13.03	pass
	64	5320	Ant 1	12.89	pass
	100	5500	Ant 1	12.73	pass
	140	5700	Ant 1	12.76	pass
	149	5745	Ant 1	12.73	pass
	165	5825	Ant 1	12.25	pass
11N40	38	5190	Ant 1	12.35	pass
	46	5230	Ant 1	12.23	pass
	54	5270	Ant 1	12.21	pass
	62	5310	Ant 1	12.46	pass
	102	5510	Ant 1	12.06	pass
	134	5670	Ant 1	11.73	pass
	151	5755	Ant 1	12.04	pass
	159	5795	Ant 1	11.70	pass
11AC20	36	5180	Ant 1	12.91	pass
	48	5240	Ant 1	13.15	pass
	52	5260	Ant 1	13.06	pass
	64	5320	Ant 1	12.87	pass
	100	5500	Ant 1	12.63	pass
	140	5700	Ant 1	12.44	pass
	149	5745	Ant 1	12.69	pass
	165	5825	Ant 1	12.29	pass
11AC40	38	5190	Ant 1	11.42	pass
	46	5230	Ant 1	11.48	pass

	54	5270	Ant 1	11.25	pass
	62	5310	Ant 1	11.33	pass
	102	5510	Ant 1	11.24	pass
	134	5670	Ant 1	11.28	pass
	151	5755	Ant 1	11.56	pass
	159	5795	Ant 1	11.54	pass
11AC80	42	5210	Ant 1	10.23	pass
	58	5290	Ant 1	10.28	pass
	106	5530	Ant 1	10.13	pass
	155	5775	Ant 1	10.16	pass

Appendix E: Peak Power Spectral Density Level

9   Result Table

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm]	Verdict
11A	36	5180	Ant 1	4.78	pass
	48	5240	Ant 1	4.57	pass
	52	5260	Ant 1	4.33	pass
	64	5320	Ant 1	4.31	pass
	100	5500	Ant 1	4.77	pass
	140	5700	Ant 1	4.49	pass
	149	5745	Ant 1	4.60	pass
	165	5825	Ant 1	4.19	pass
11N20	36	5180	Ant 1	4.25	pass
	48	5240	Ant 1	4.29	pass
	52	5260	Ant 1	3.46	pass
	64	5320	Ant 1	3.66	pass
	100	5500	Ant 1	4.29	pass
	140	5700	Ant 1	4.12	pass
	149	5745	Ant 1	4.15	pass
	165	5825	Ant 1	3.73	pass
11N40	38	5190	Ant 1	1.28	pass
	46	5230	Ant 1	1.49	pass
	54	5270	Ant 1	1.04	pass
	62	5310	Ant 1	0.94	pass
	102	5510	Ant 1	1.40	pass
	134	5670	Ant 1	1.16	pass
	151	5755	Ant 1	1.15	pass
	159	5795	Ant 1	0.81	pass
11AC20	36	5180	Ant 1	4.52	pass
	48	5240	Ant 1	3.71	pass
	52	5260	Ant 1	3.65	pass
	64	5320	Ant 1	3.89	pass
	100	5500	Ant 1	4.37	pass
	140	5700	Ant 1	4.24	pass
	149	5745	Ant 1	4.09	pass
	165	5825	Ant 1	3.61	pass
11AC40	38	5190	Ant 1	-0..01	pass
	46	5230	Ant 1	-0.12	pass

	54	5270	Ant 1	-0.39	pass
	62	5310	Ant 1	-0.3	pass
	102	5510	Ant 1	-0.28	pass
	134	5670	Ant 1	-0.62	pass
	151	5755	Ant 1	-0.02	pass
	159	5795	Ant 1	0.09	pass
11AC80	42	5210	Ant 1	-3.64	pass
	58	5290	Ant 1	-3.85	pass
	106	5530	Ant 1	-3.89	pass
	155	5775	Ant 1	-3.71	pass

10   Test Plot

10.1   11A_36 Ant 1


```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz                 4.78 dBm
      Ref   30 dBm            Att   55 dB     SWT  20 ms     5.178900000 GHz

      30  Offset   1.8  dB                                              A
   -20                                                                  SGL

  1 RM *
  MAXH                                                                  LVL

      0

  -10

  -20
        SWP   500 of   500
  -30

  -40                                                                  3DB

  -50

  -60

  -70
      Start  5.165 GHz              3 MHz/             Stop  5.195 GHz
```
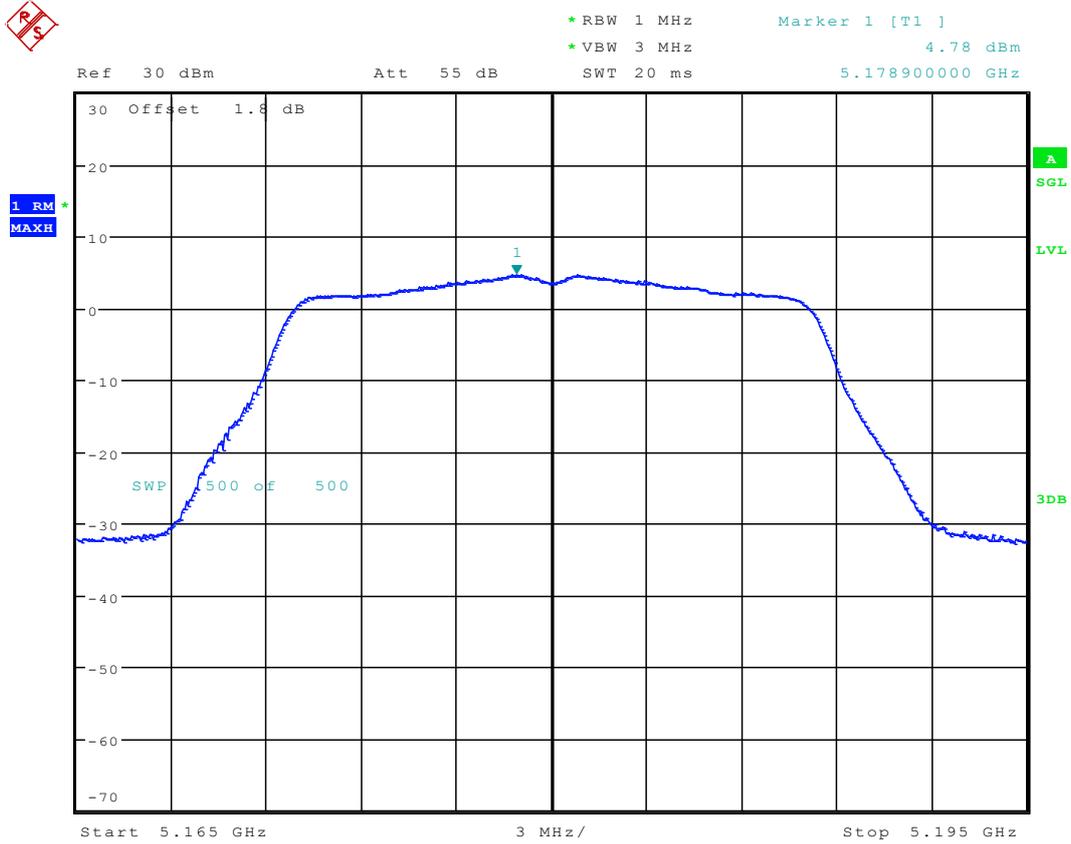
Date: 26.SEP.2016 20:54:26

10.2 11A_48 Ant 1
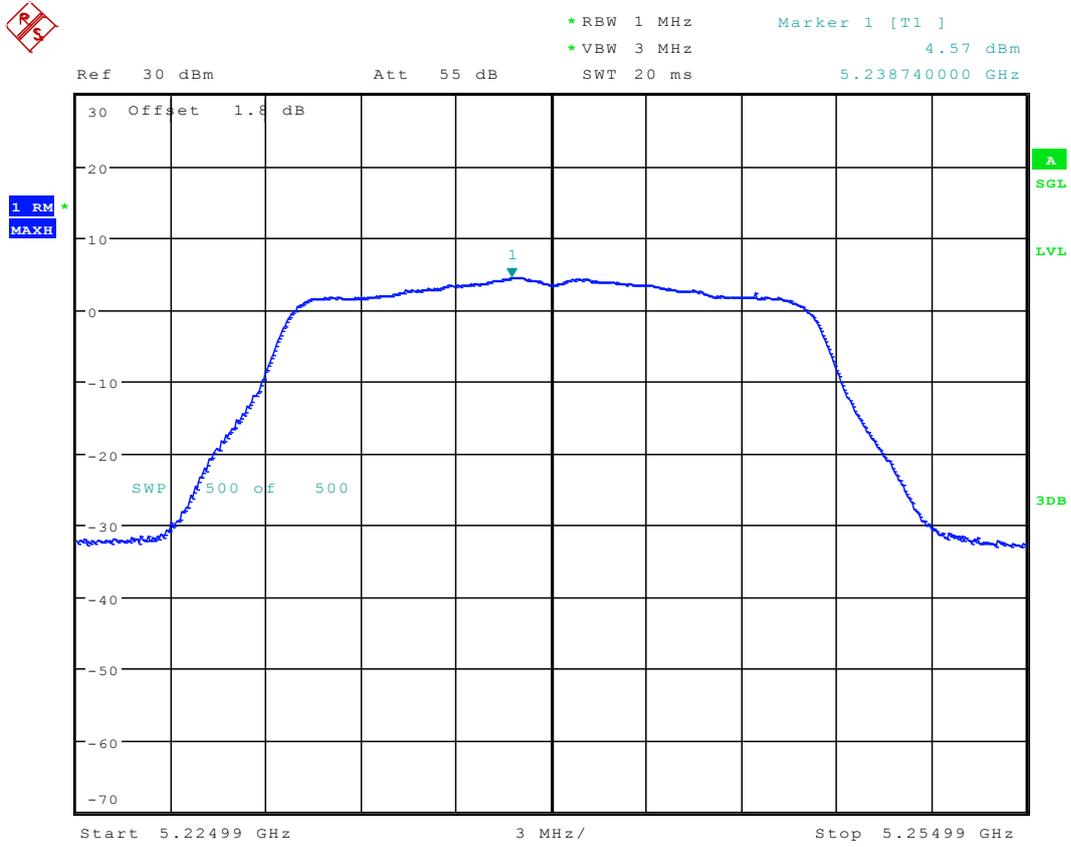
Date: 26.SEP.2016 21:01:38

10.3 11A_52 Ant 1
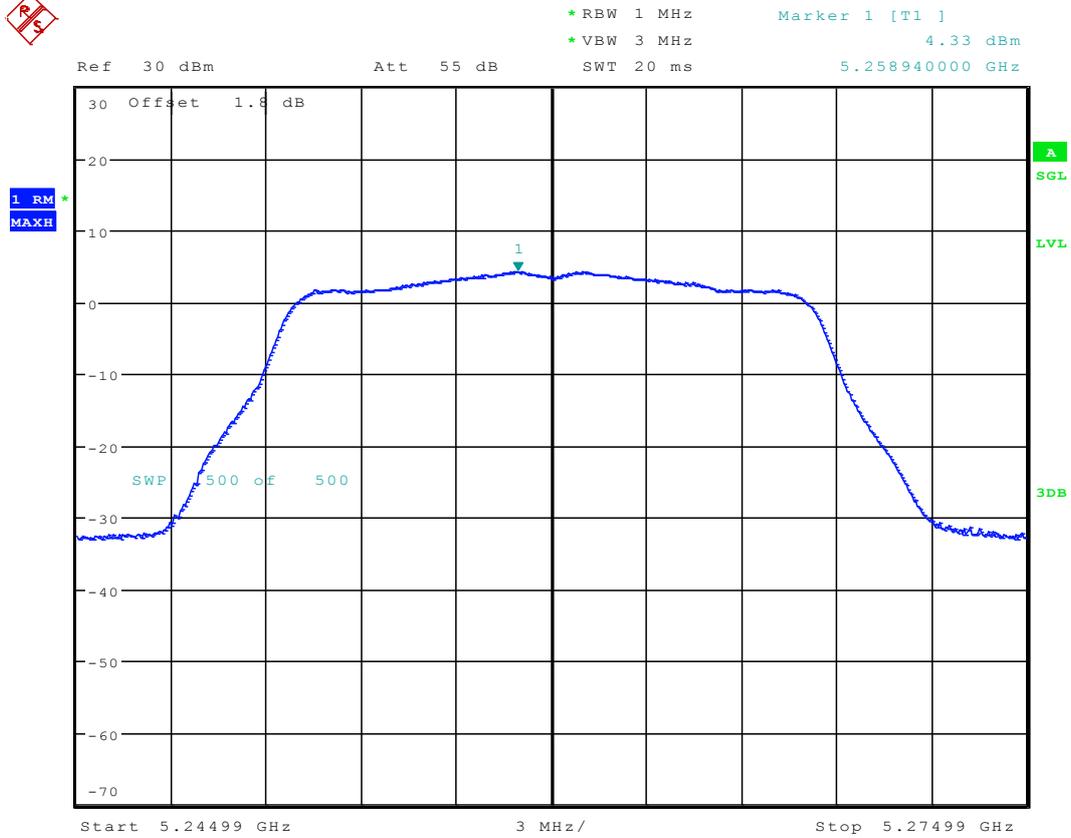
Date: 26.SEP.2016 21:07:53

10.4 11A_64 Ant 1


```
                                    *RBW  1 MHz        Marker 1 [T1 ]
                                    *VBW  3 MHz                    4.31 dBm
Ref  30 dBm            Att  55 dB    SWT 20 ms          5.318800000 GHz
```

Spectrum plot:
- Ref 30 dBm, Offset 1.8 dB
- Y-axis from 30 down to -70 dBm
- Marker 1 at peak (~4.31 dBm)
- SWP 500 of 500
- Start 5.305 GHz   3 MHz/   Stop 5.335 GHz
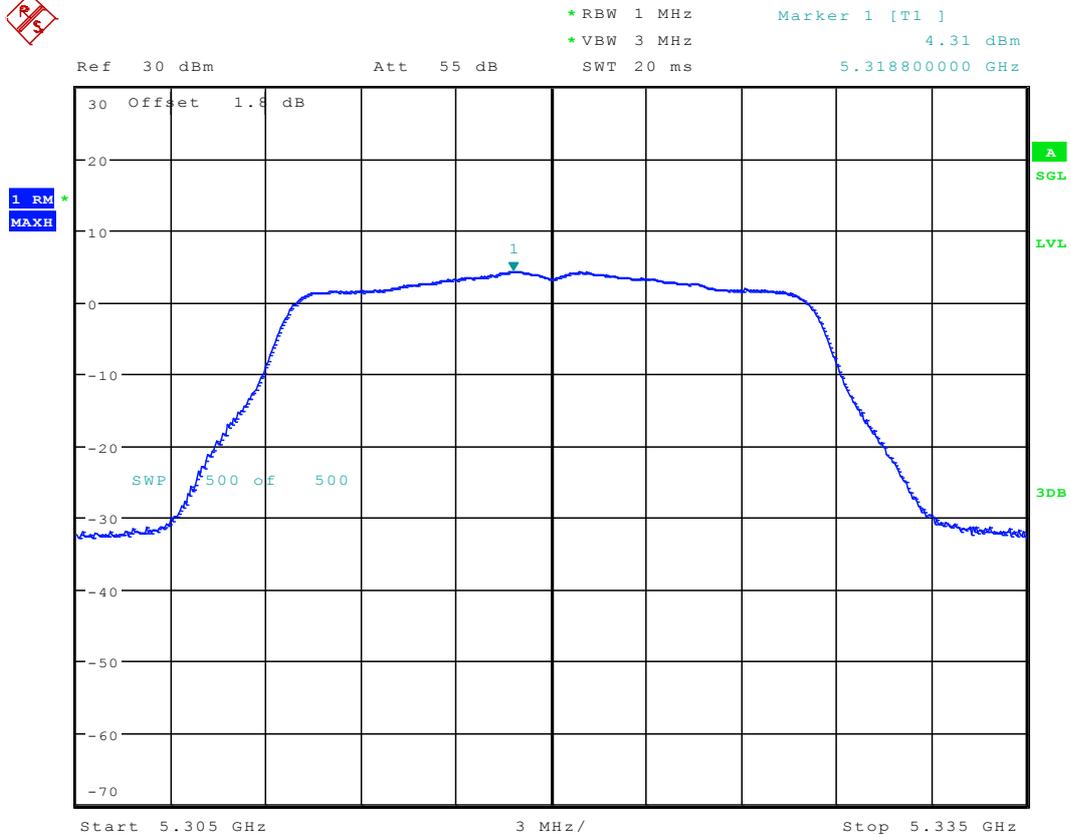
Date: 26.SEP.2016 21:12:34

10.5 11A_100 Ant 1
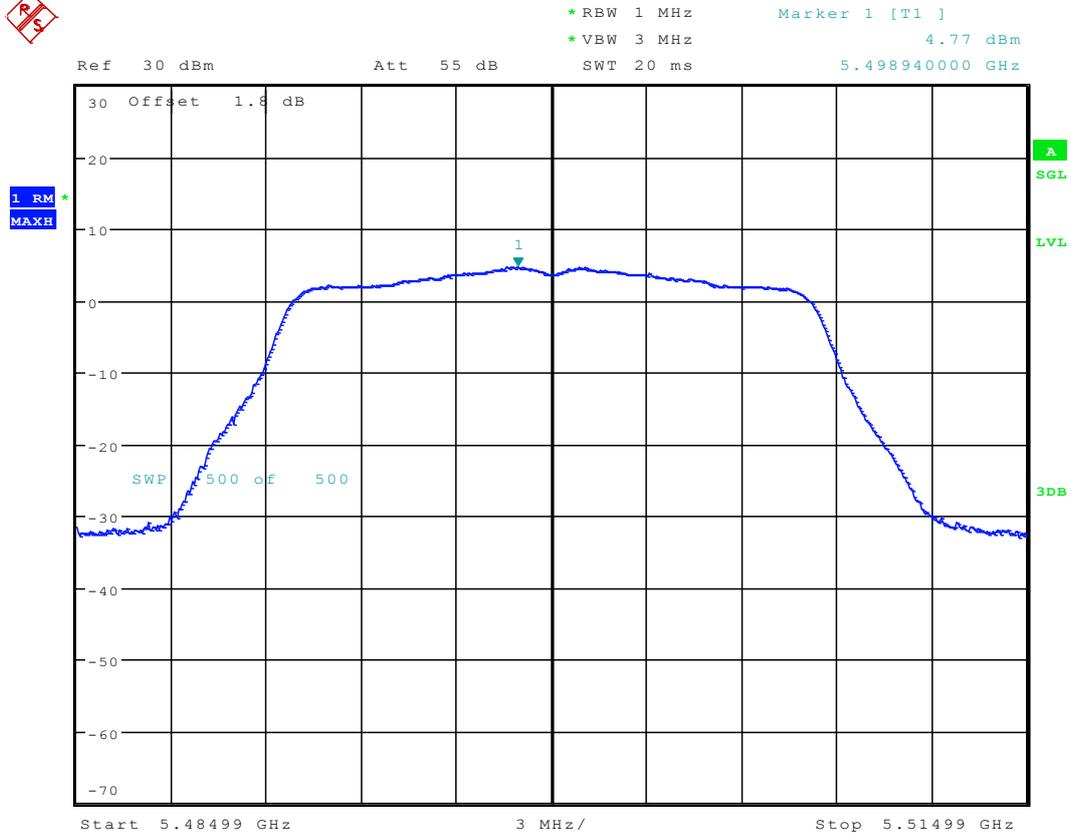
Date: 26.SEP.2016 21:24:40

10.6 11A_140 Ant 1
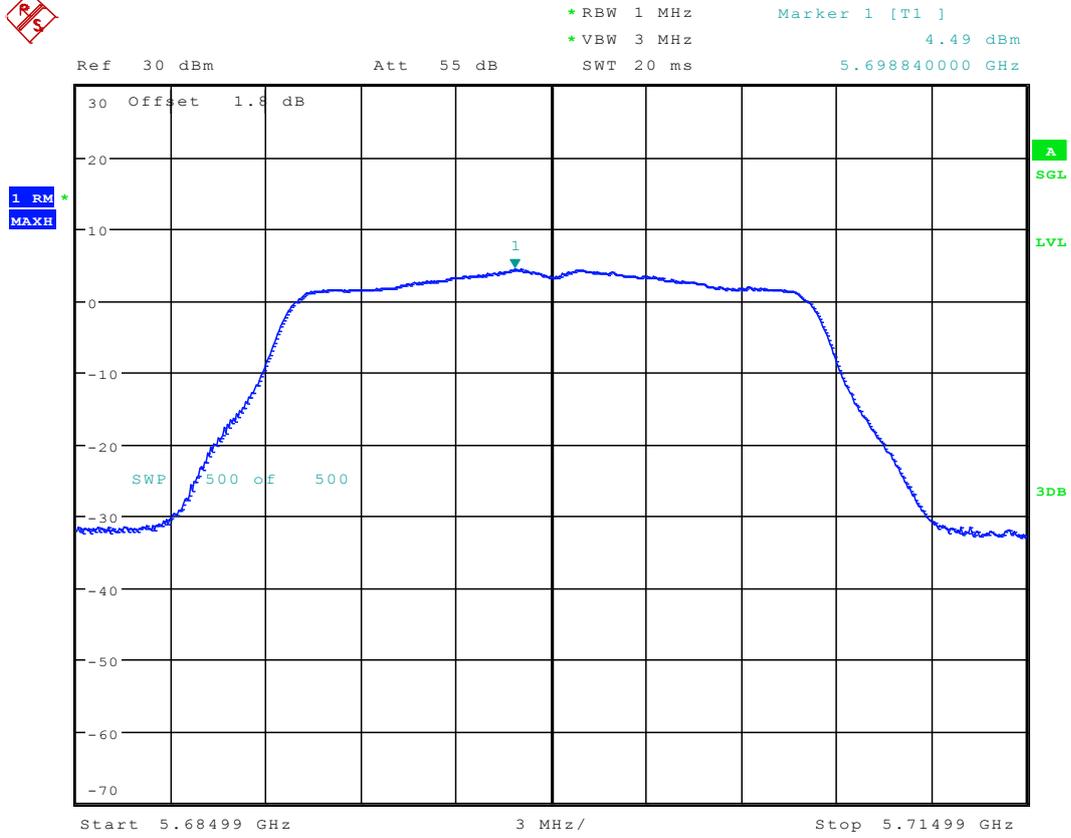
Date: 26.SEP.2016 21:29:50

10.7 11A_149 Ant 1

```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  2 MHz                  4.60 dBm
    Ref  30 dBm          Att  55 dB   SWT  20 ms        5.743920000 GHz

      30  Offset  1.8 dB
                                                                          A
    -20                                                                  SGL

  1 RM *
  MAXH  -10                                                              LVL

          0

    -10

    -20
          SWP   500 of   500
    -30                                                                  3DB

    -40

    -50

    -60

    -70
    Start  5.73002 GHz          3 MHz/          Stop  5.76002 GHz
```
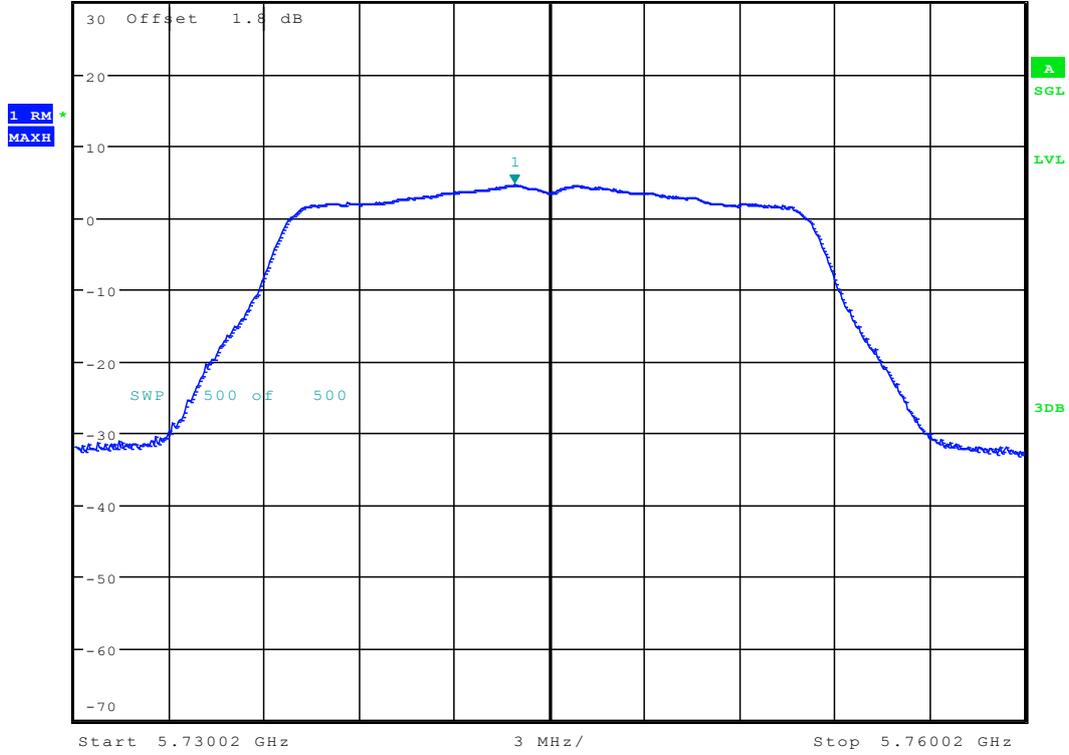
Date: 26.SEP.2016 21:39:09

10.8 11A_165 Ant 1
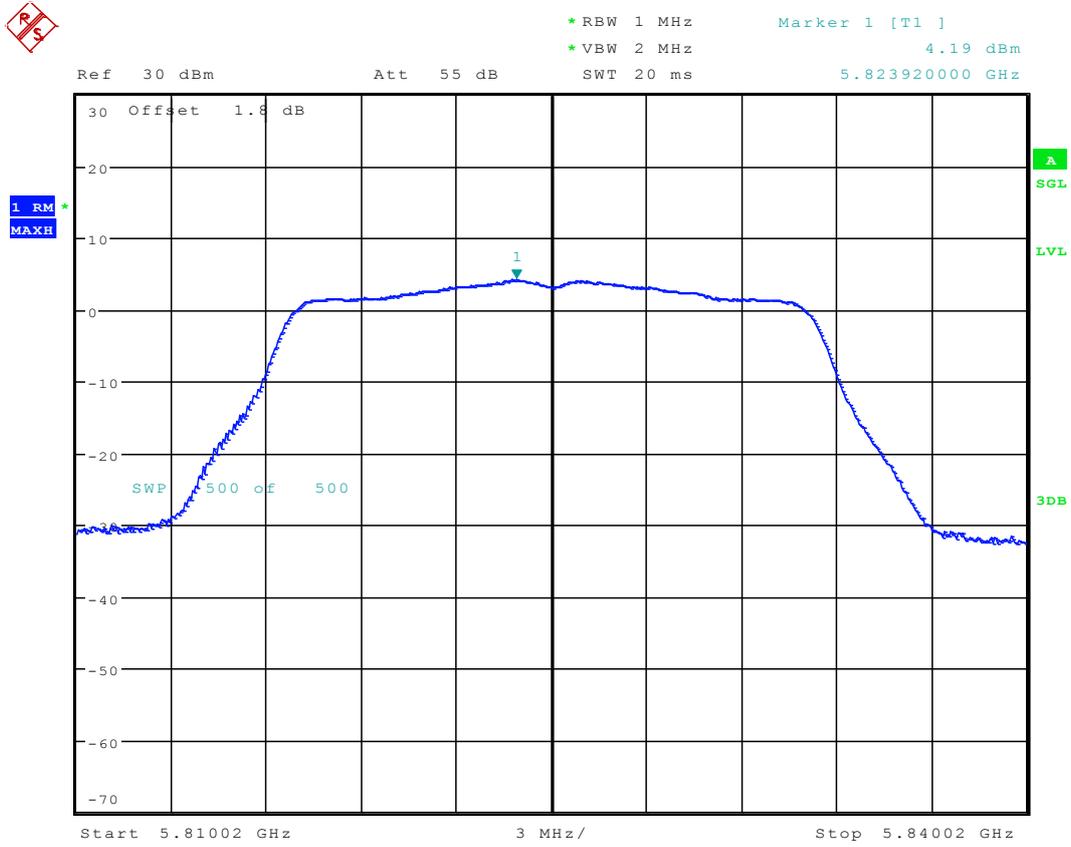
Date: 26.SEP.2016 21:49:32

10.9 11N20_36 Ant 1


```
                                        * RBW  1 MHz        Marker 1 [T1 ]
                                        * VBW  3 MHz                    4.25 dBm
      Ref  30 dBm          Att  55 dB    SWT  20 ms        5.178540000 GHz
      30  Offset  1.8 dB                                                    A
        20                                                                  SGL

        10                                                                  LVL
                                         1
         0
       -10
       -20
              SWP  500 of  500
       -30                                                                  3DB

       -40

       -50

       -60

       -70
      Start  5.16494 GHz          3 MHz/          Stop  5.19494 GHz
```
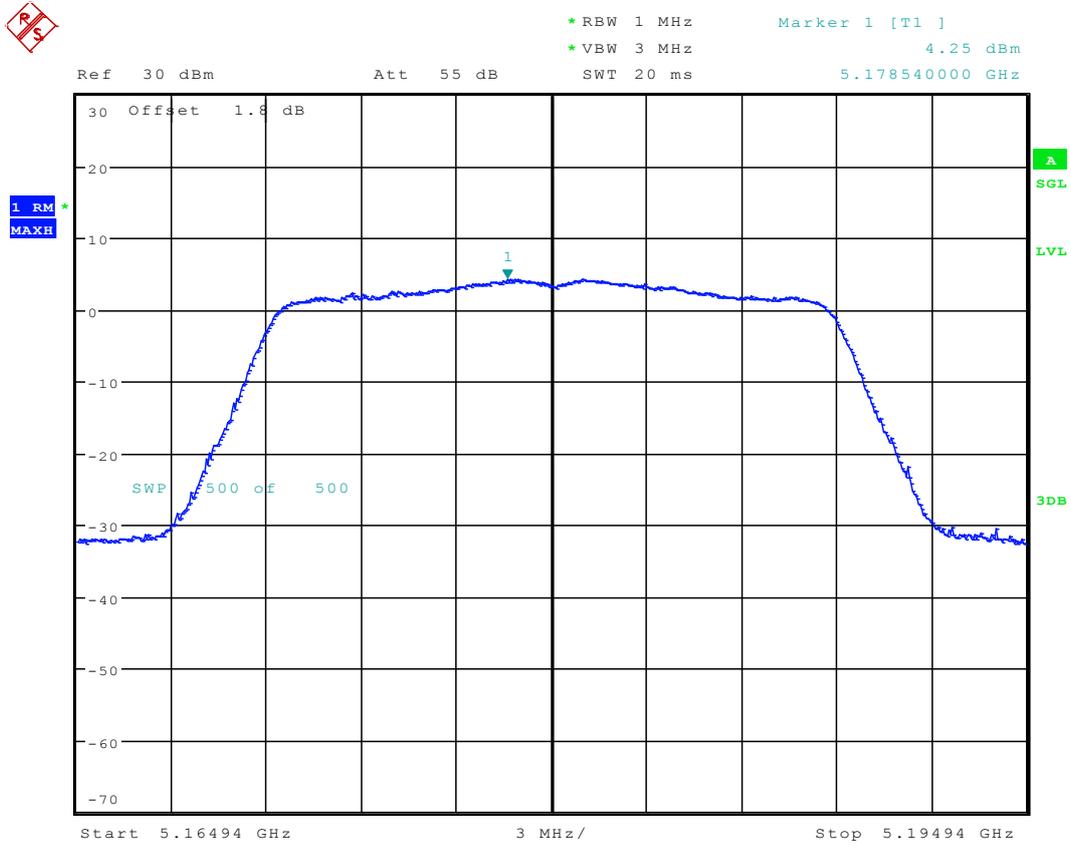
Date: 27.SEP.2016 12:10:23

10.10 11N20_48 Ant 1


```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz                    4.29 dBm
Ref  30 dBm            Att  55 dB   SWT  20 ms        5.238900000 GHz
```
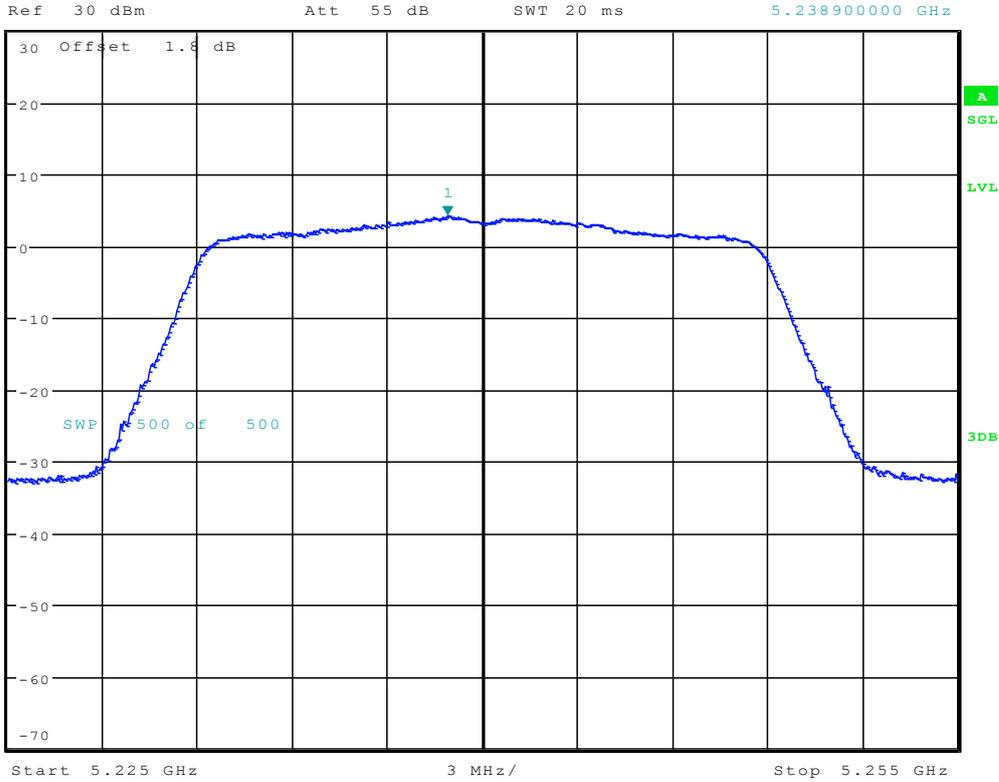
Date: 27.SEP.2016 12:15:28

10.11 11N20_52 Ant 1
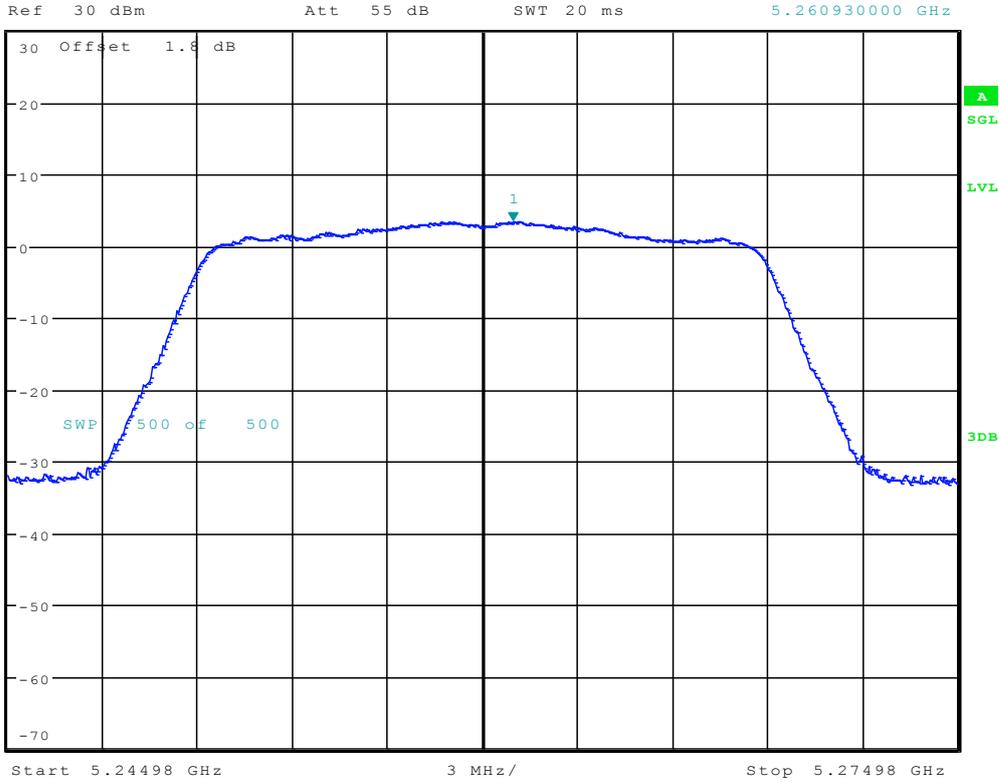
Date: 27.SEP.2016 12:25:32

10.12 11N20_64 Ant 1

	* RBW 1 MHz	Marker 1 [T1]	
	* VBW 3 MHz		3.66 dBm
Ref 30 dBm	Att 55 dB SWT 20 ms	5.318830000 GHz	

Start 5.30503 GHz   3 MHz/   Stop 5.33503 GHz
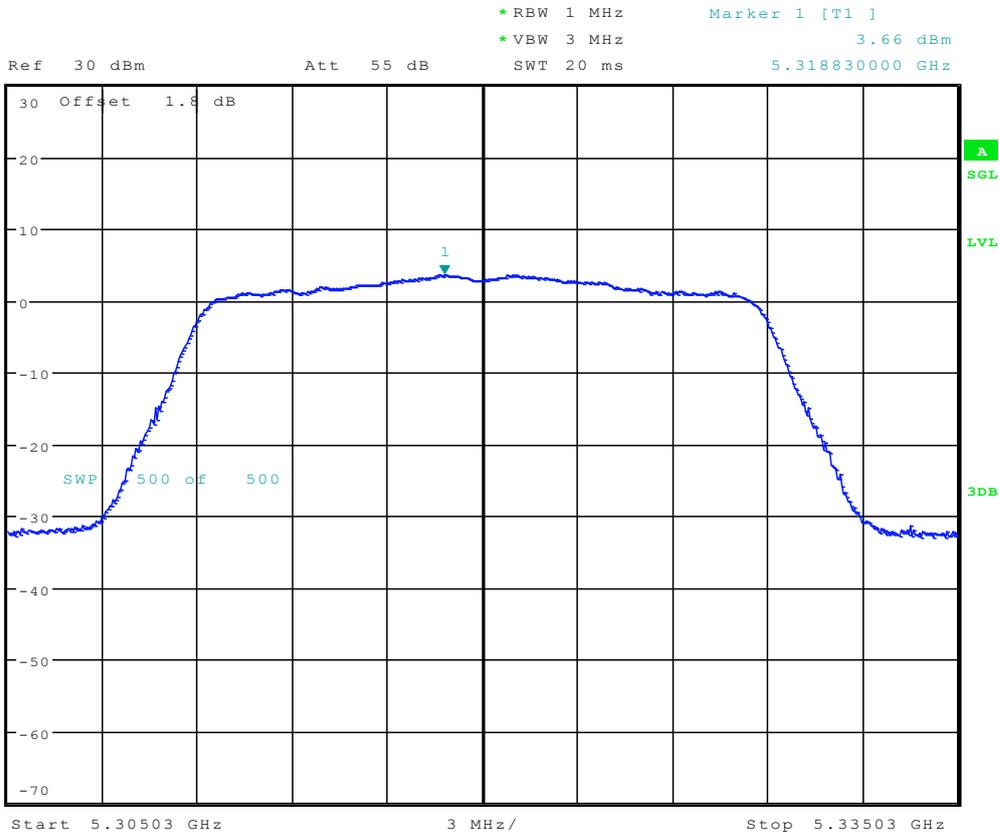
Date: 27.SEP.2016 12:32:05

10.13 11N20_100 Ant 1
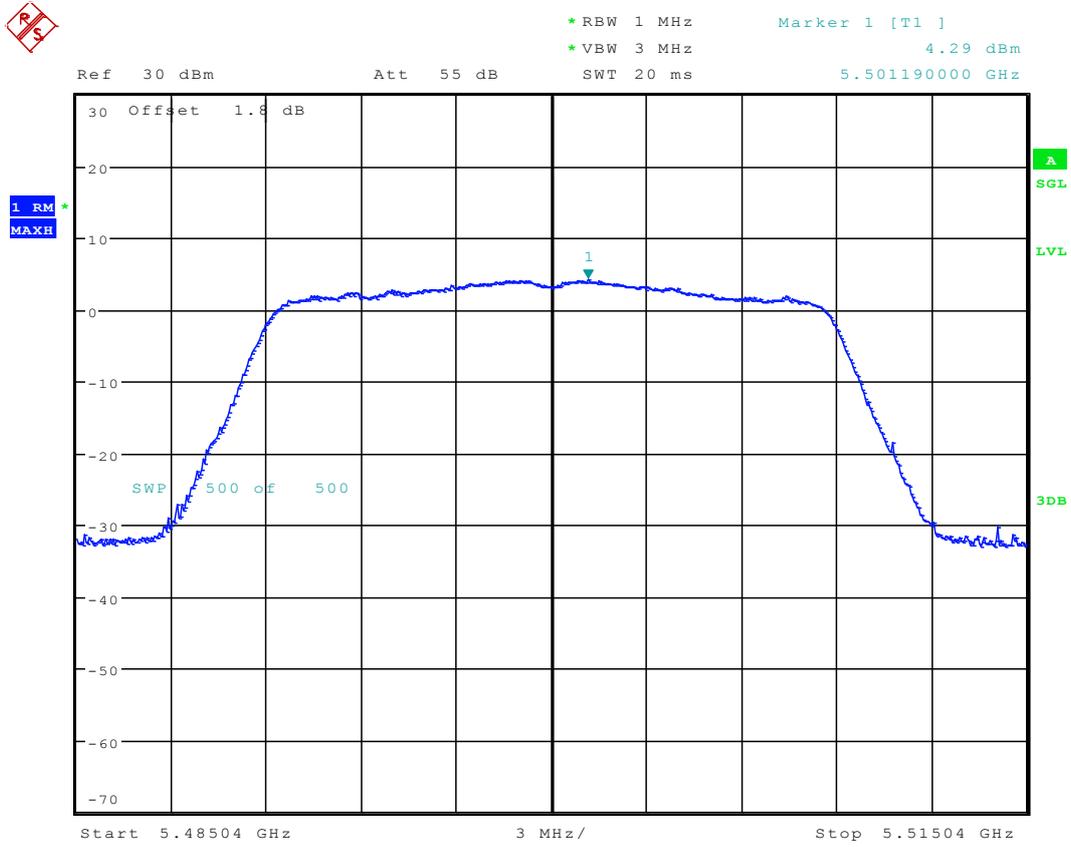
Date: 27.SEP.2016 12:42:04

10.14 11N20_140 Ant 1
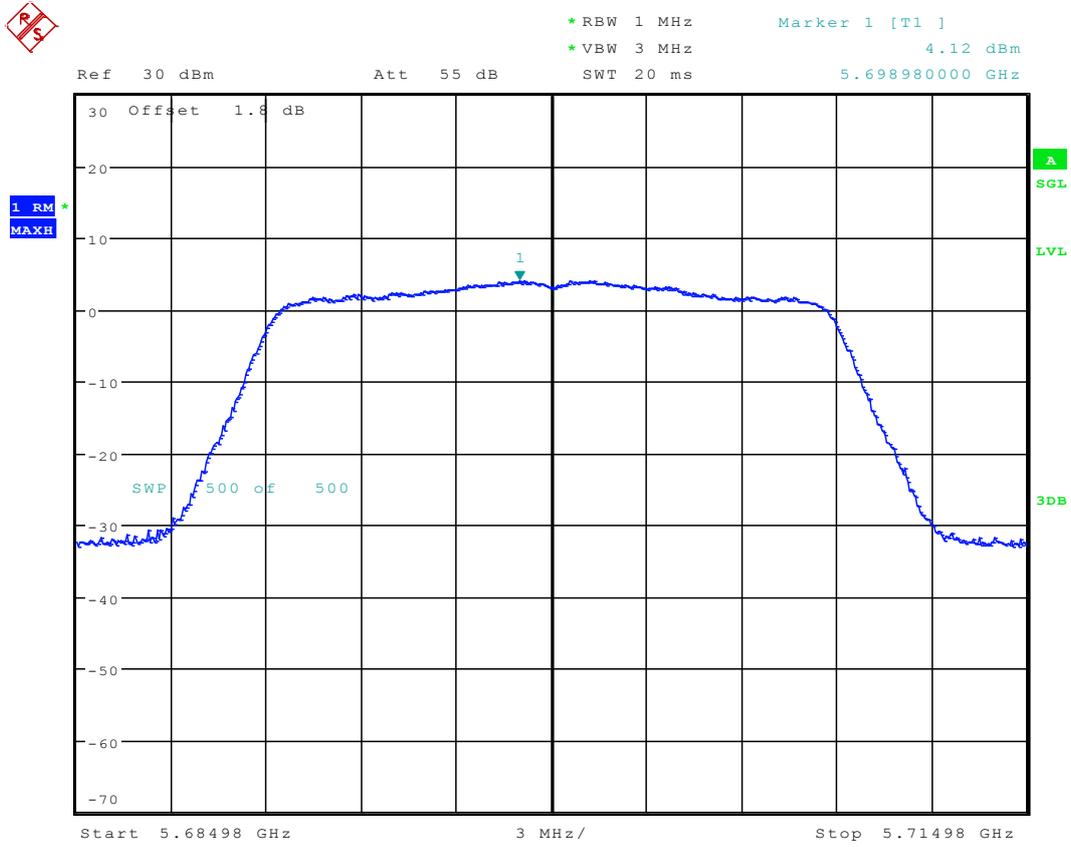
Date: 27.SEP.2016 12:52:23

10.15 11N20_149 Ant 1
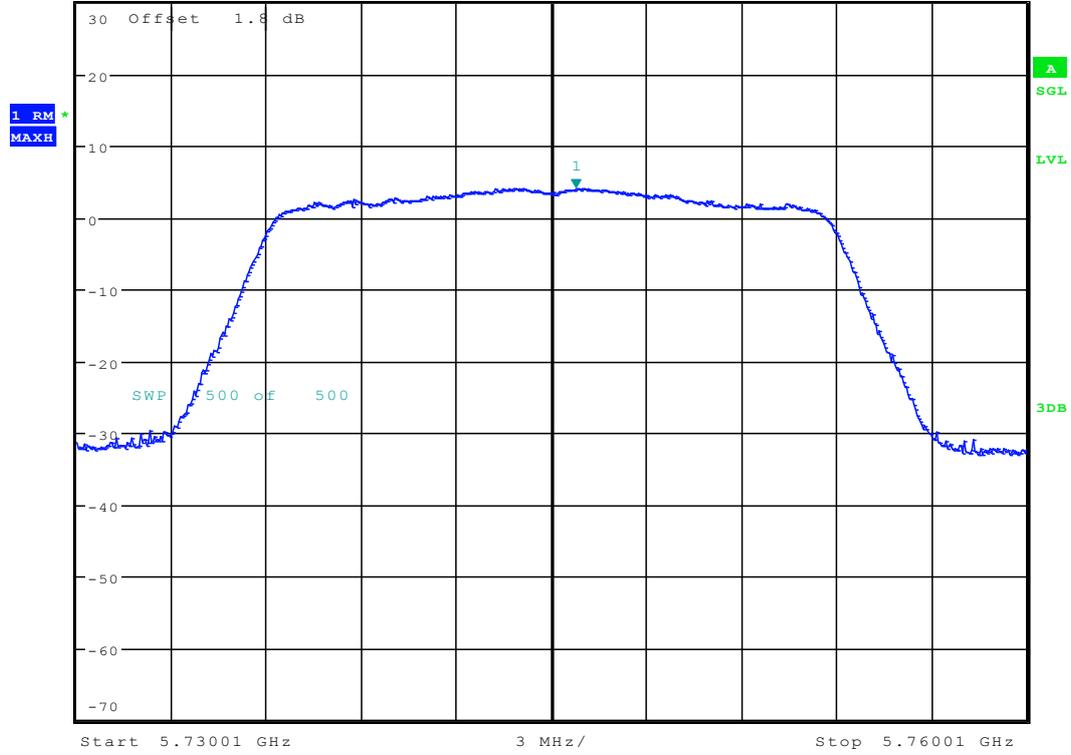
Date: 27.SEP.2016 13:01:07

10.16 11N20_165 Ant 1
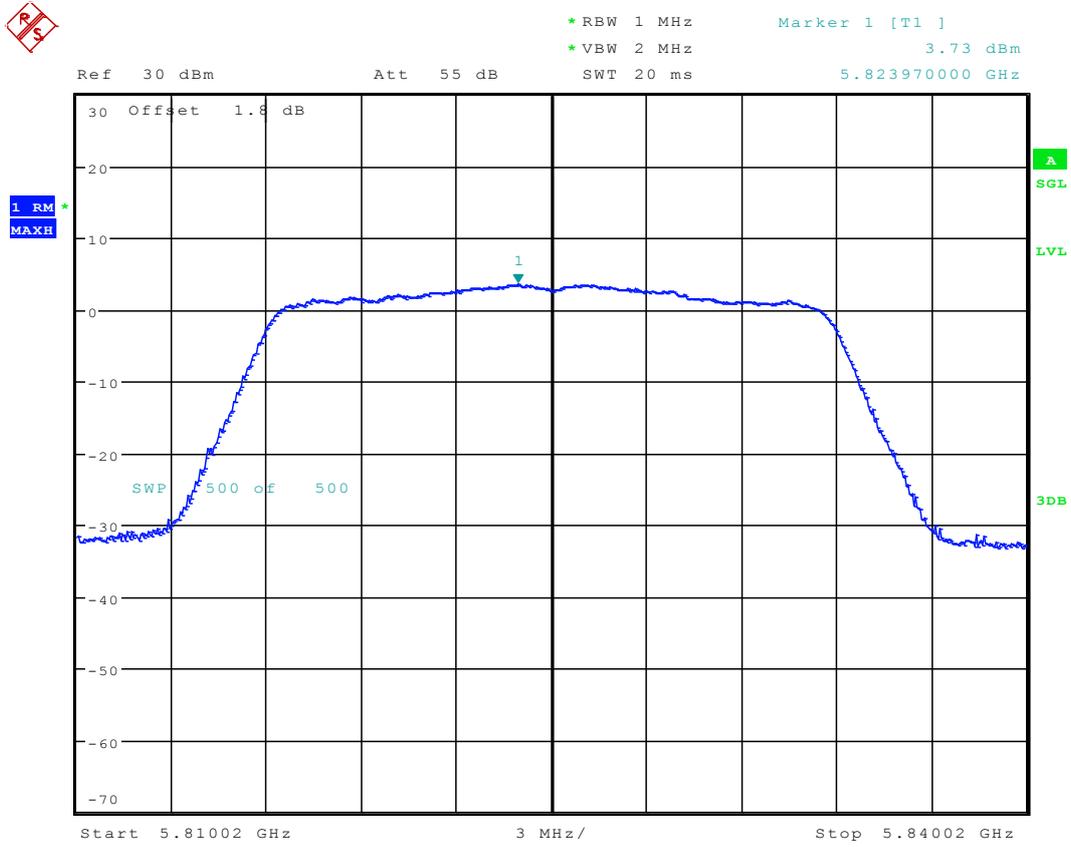
10.17 11N40_38 Ant 1
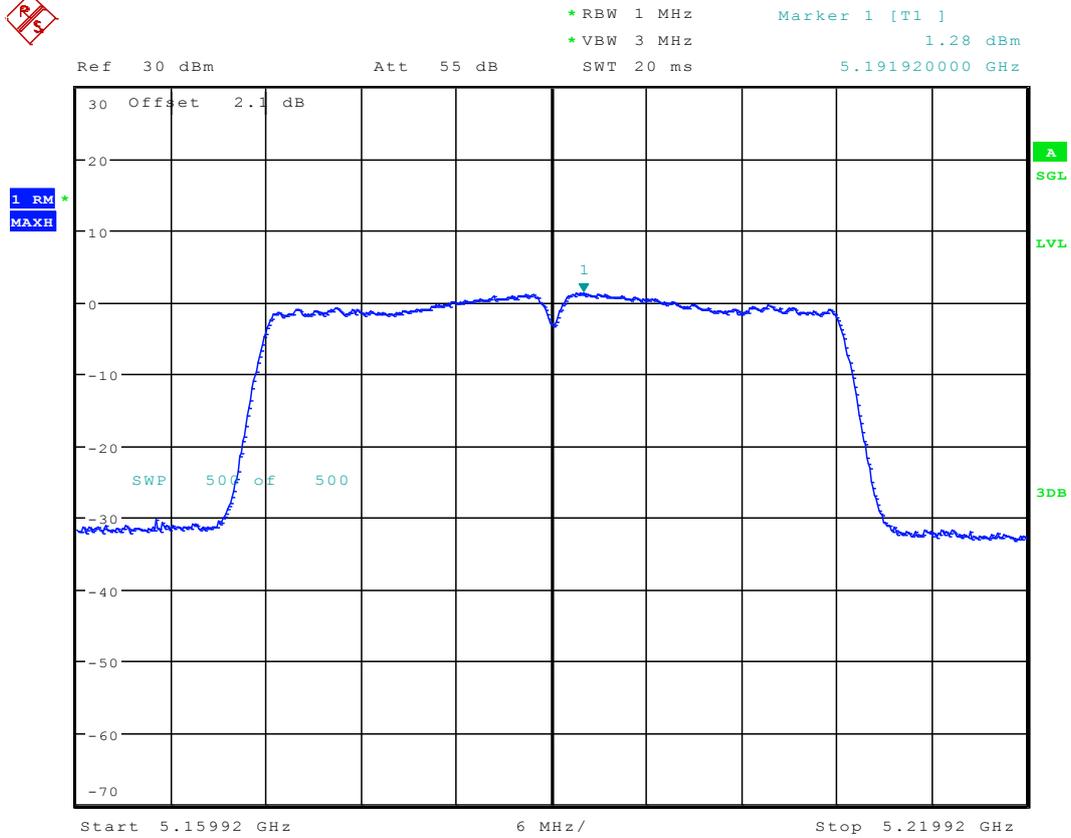
Date: 27.SEP.2016 13:27:19

10.18 11N40_46 Ant 1
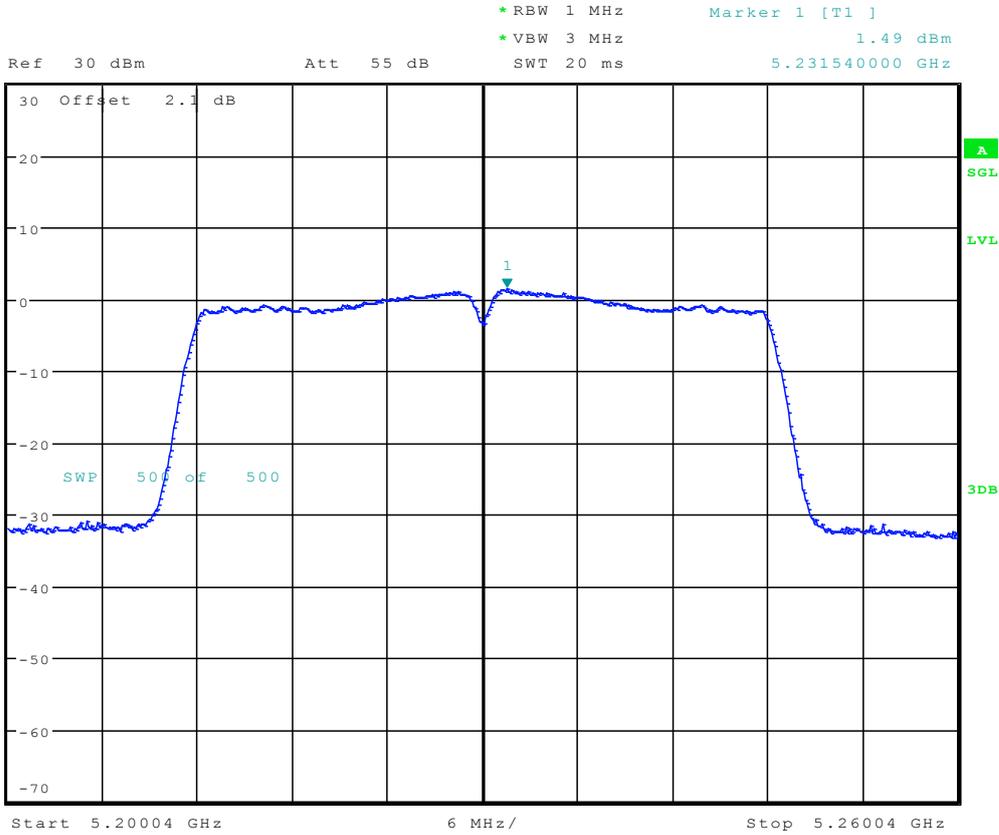
Date: 27.SEP.2016 13:44:02

10.19 11N40_54 Ant 1
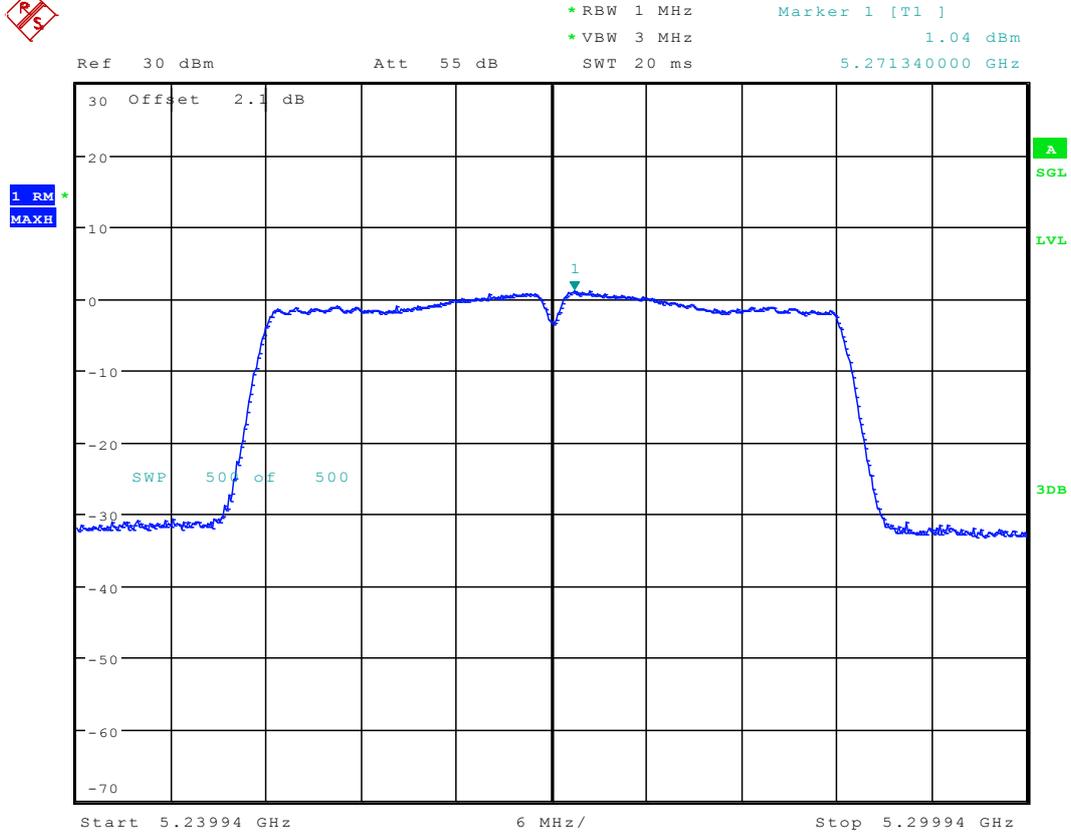
Date: 27.SEP.2016 13:49:05

10.20 11N40_62 Ant 1


```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz                    0.94 dBm
        Ref  30 dBm        Att  55 dB    SWT  20 ms    5.311370000 GHz
```
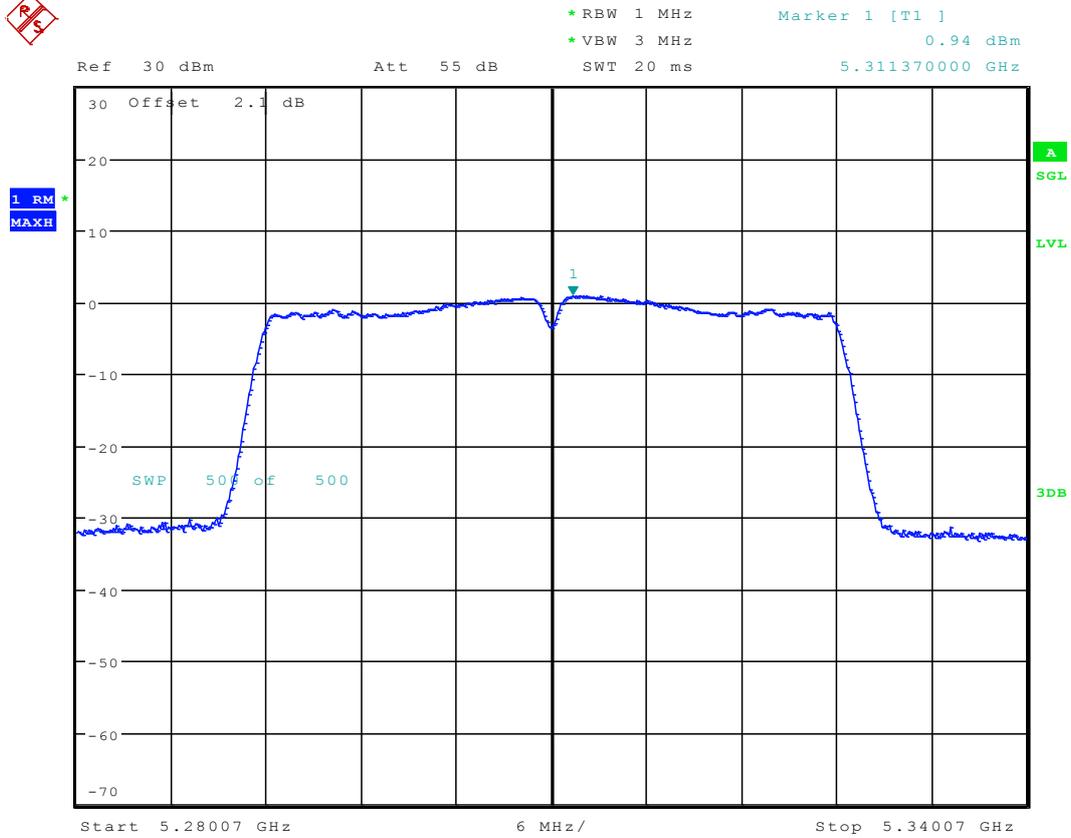
Date: 27.SEP.2016 15:28:21

10.21 11N40_102 Ant 1


```
                                    *RBW  1 MHz      Marker 1 [T1 ]
                                    *VBW  3 MHz              1.40 dBm
        Ref  30 dBm         Att  55 dB     SWT 20 ms    5.511750000 GHz
```
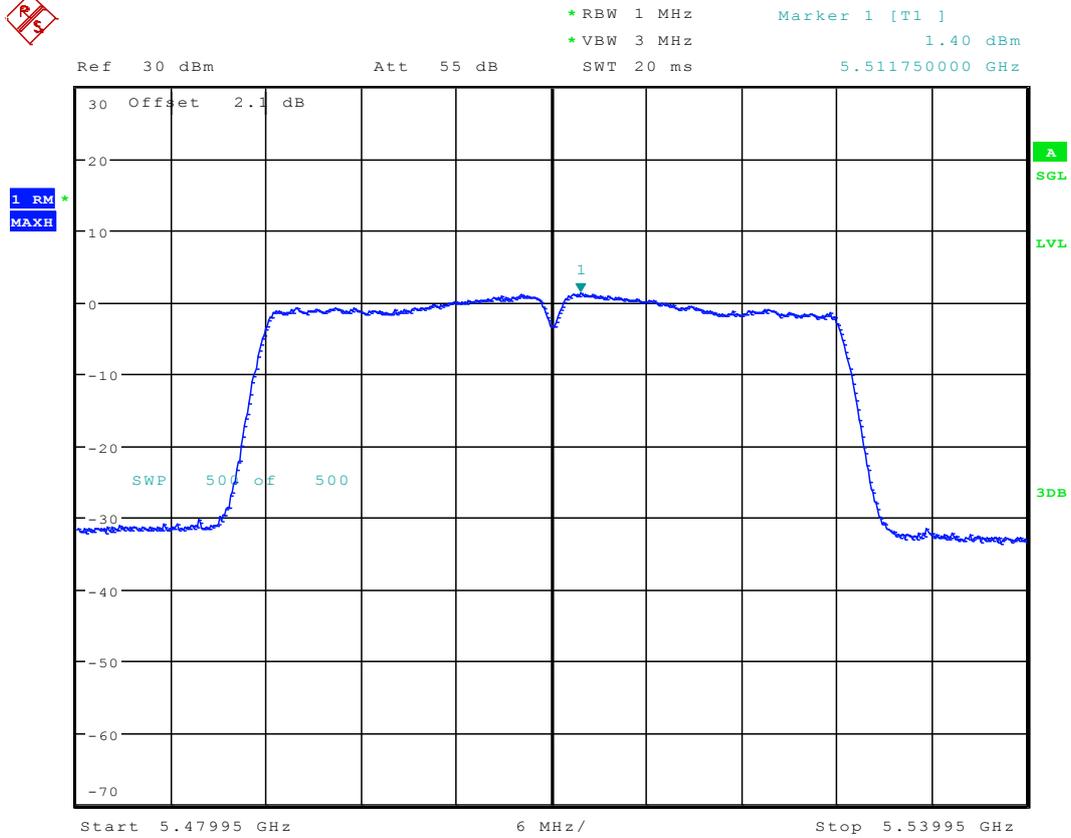
Date: 27.SEP.2016 15:37:15

10.22 11N40_134 Ant 1

Marker 1 [T1]
* RBW 1 MHz
* VBW 3 MHz 1.16 dBm
Ref 30 dBm   Att 55 dB   SWT 20 ms   5.671960000 GHz

30 Offset 2.1 dB

SWP 500 of 500

Start 5.64006 GHz   6 MHz/   Stop 5.70006 GHz
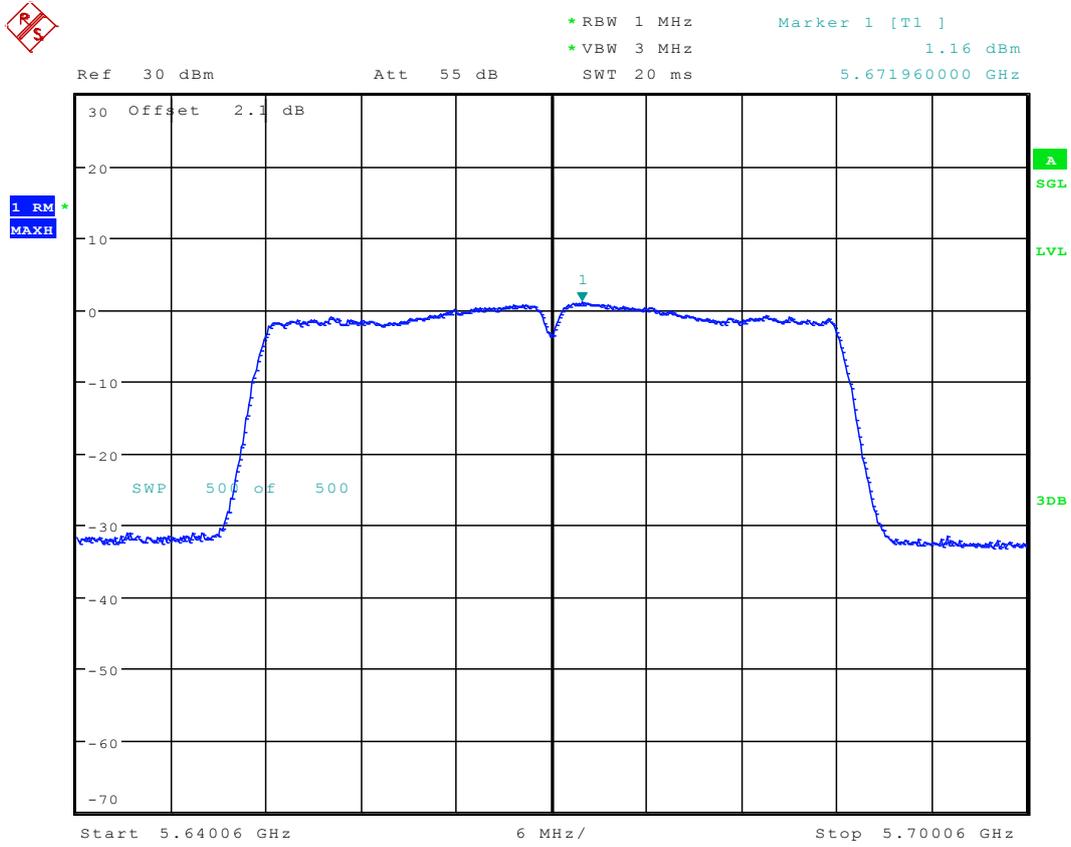
Date: 27.SEP.2016 15:43:44

10.23 11N40_151 Ant 1
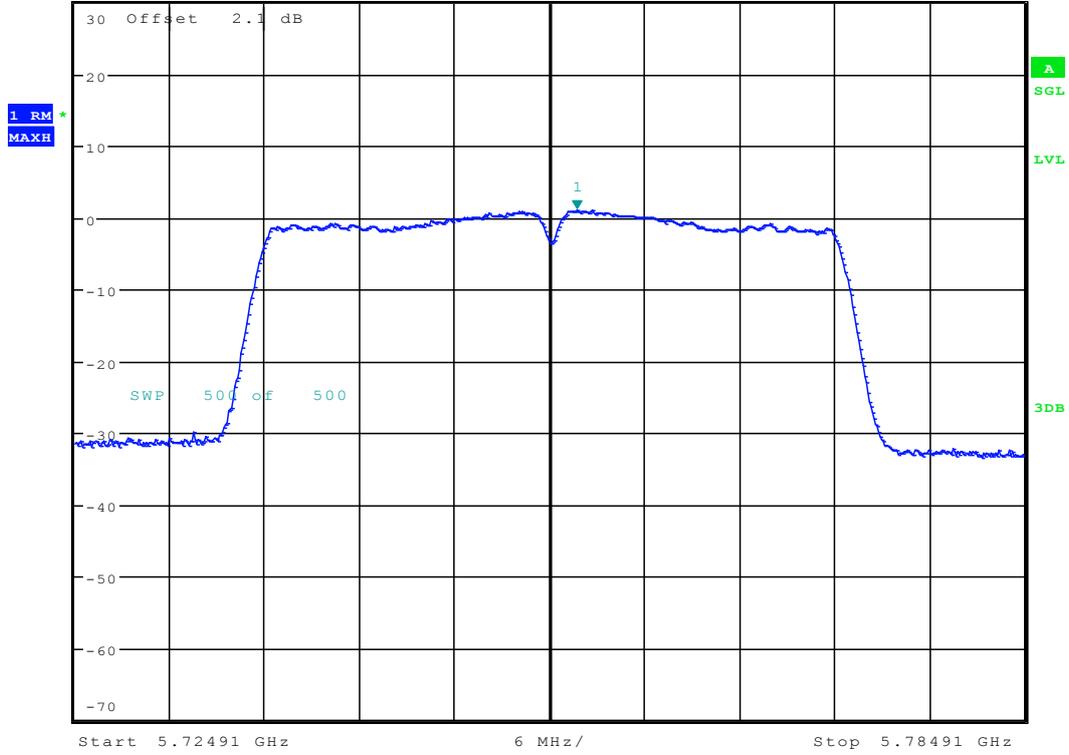
Date: 27.SEP.2016 16:06:48

10.24 11N40_159 Ant 1


```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  2 MHz              0.81 dBm
        Ref  30 dBm       Att  55 dB    SWT 20 ms      5.796500000 GHz

        30  Offset  2.1 dB                                        A
      -20                                                        SGL
1 RM*
MAXH  -10                                                        LVL
          0                              1
      -10
      -20
         SWP  500 of  500                                        3DB
      -30
      -40
      -50
      -60
      -70
        Start 5.7649 GHz         6 MHz/        Stop 5.8249 GHz
```
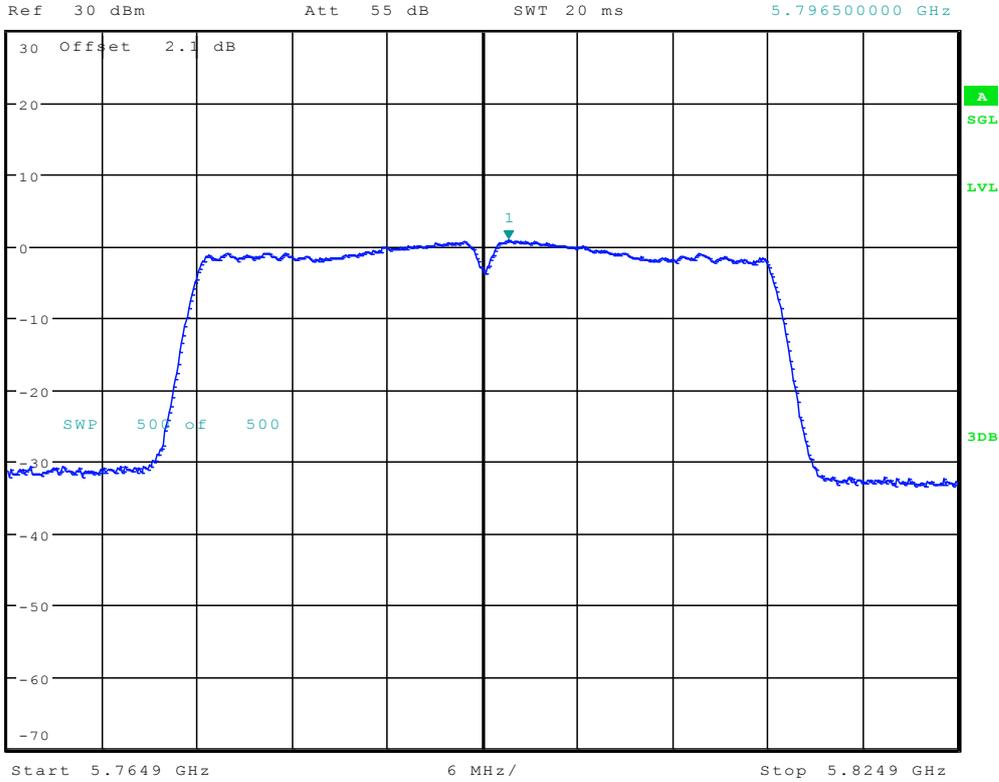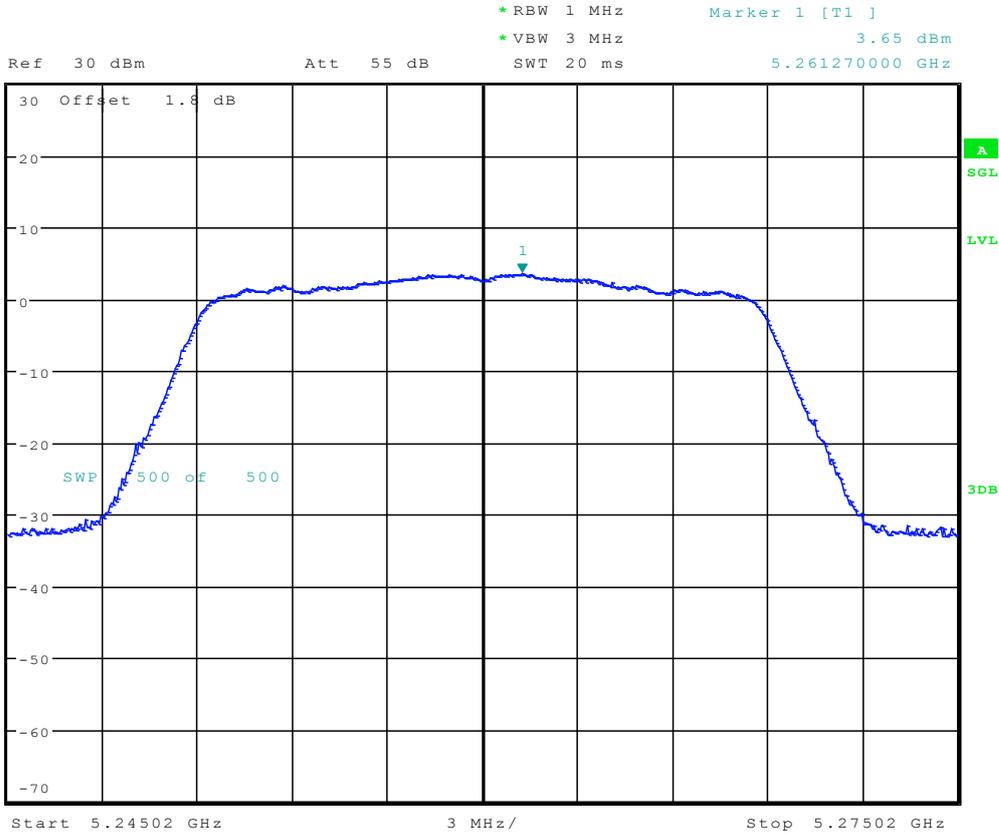
Date: 27.SEP.2016 16:13:58

10.25 11AC20_36 Ant 1


```
                                          * RBW  1 MHz      Marker 1 [T1 ]
                                          * VBW  3 MHz                  4.52 dBm
   Ref  30 dBm            Att  55 dB       SWT 20 ms        5.181150000 GHz
    30  Offset  1.8 dB                                                        A
                                                                            SGL
     20
                                                                            LVL
     10
                            1
      0
    -10
    -20
          SWP   500 of   500
    -30                                                                      3DB
    -40
    -50
    -60
    -70
   Start  5.165 GHz              3 MHz/            Stop  5.195 GHz
```
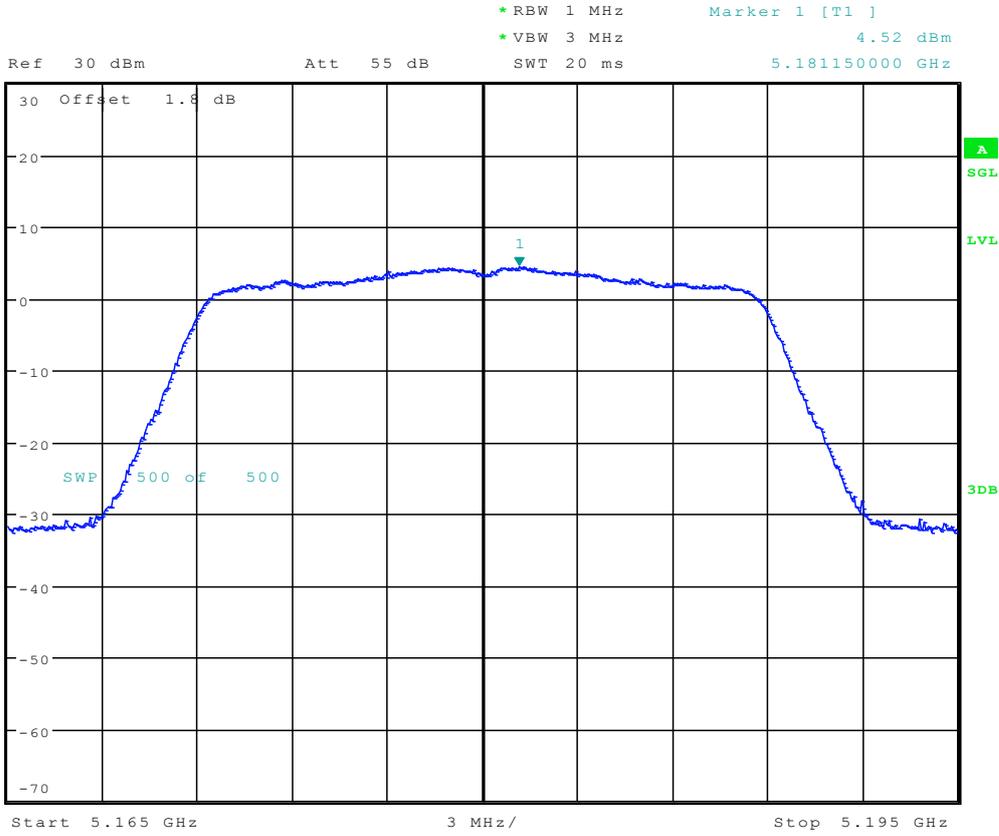
Date: 27.SEP.2016 16:21:38

10.26 11AC20_48 Ant 1


```
                                            * RBW  1 MHz       Marker 1 [T1 ]
                                            * VBW  3 MHz                    3.71 dBm
    Ref  30 dBm            Att  55 dB       SWT  20 ms         5.241010000 GHz
    30  Offset  1.8 dB                                                       A
      20                                                                    SGL

1  RM *                                                                     LVL
MAXH   10                                       1

        0

      -10

      -20
          SWP   500 of   500
      -30

      -40                                                                   3DB

      -50

      -60

      -70
    Start  5.22501 GHz           3 MHz/          Stop  5.25501 GHz
```
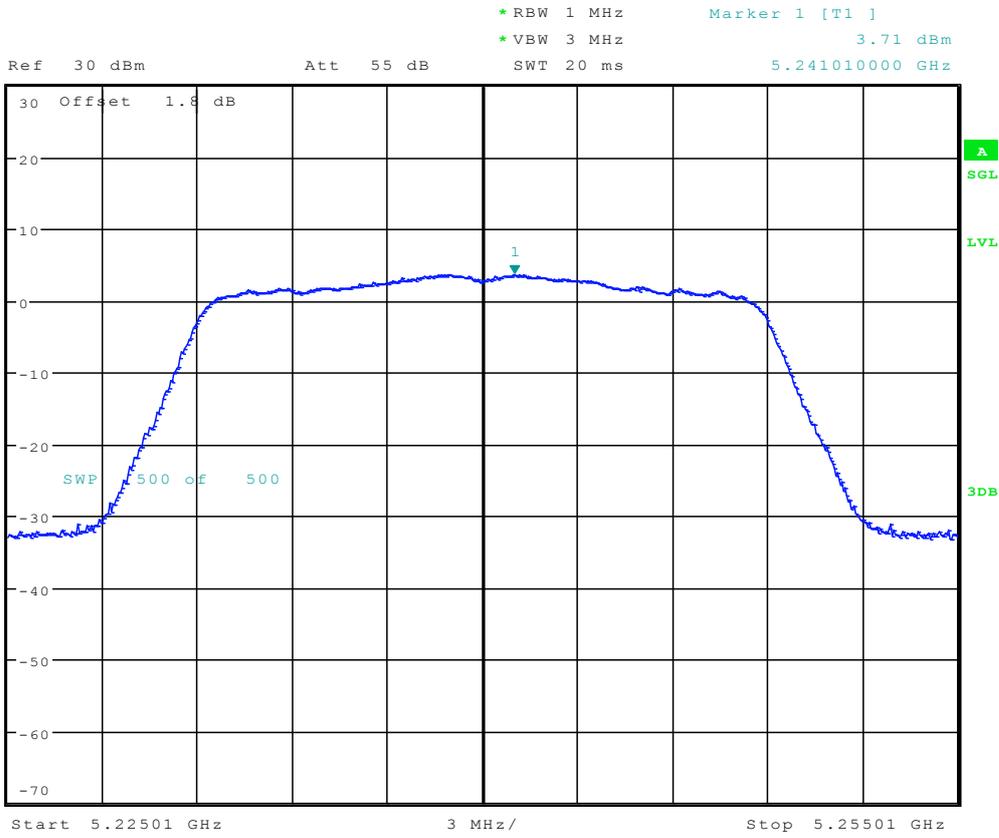
Date: 27.SEP.2016 16:28:30

10.27 11AC20_52 Ant 1


```
                                        * RBW  1 MHz      Marker 1 [T1 ]
                                        * VBW  3 MHz                    3.65 dBm
         Ref   30 dBm          Att  55 dB    SWT  20 ms    5.261270000 GHz
```

Date: 27.SEP.2016 16:34:00

10.28 11AC20_64 Ant 1


```
                                          * RBW  1 MHz        Marker 1 [T1 ]
                                          * VBW  3 MHz                   3.89 dBm
      Ref  30 dBm            Att  55 dB    SWT 20 ms          5.320720000 GHz

      30  Offset  1.8 dB                                                      A
                                                                             SGL
     -20

1 RM *                                                                       LVL
MAXH
     -10                                       1

       0

     -10

     -20
      SWP    500 of   500

     -30
                                                                             3DB

     -40

     -50

     -60

     -70

      Start  5.30497 GHz              3 MHz/              Stop  5.33497 GHz
```
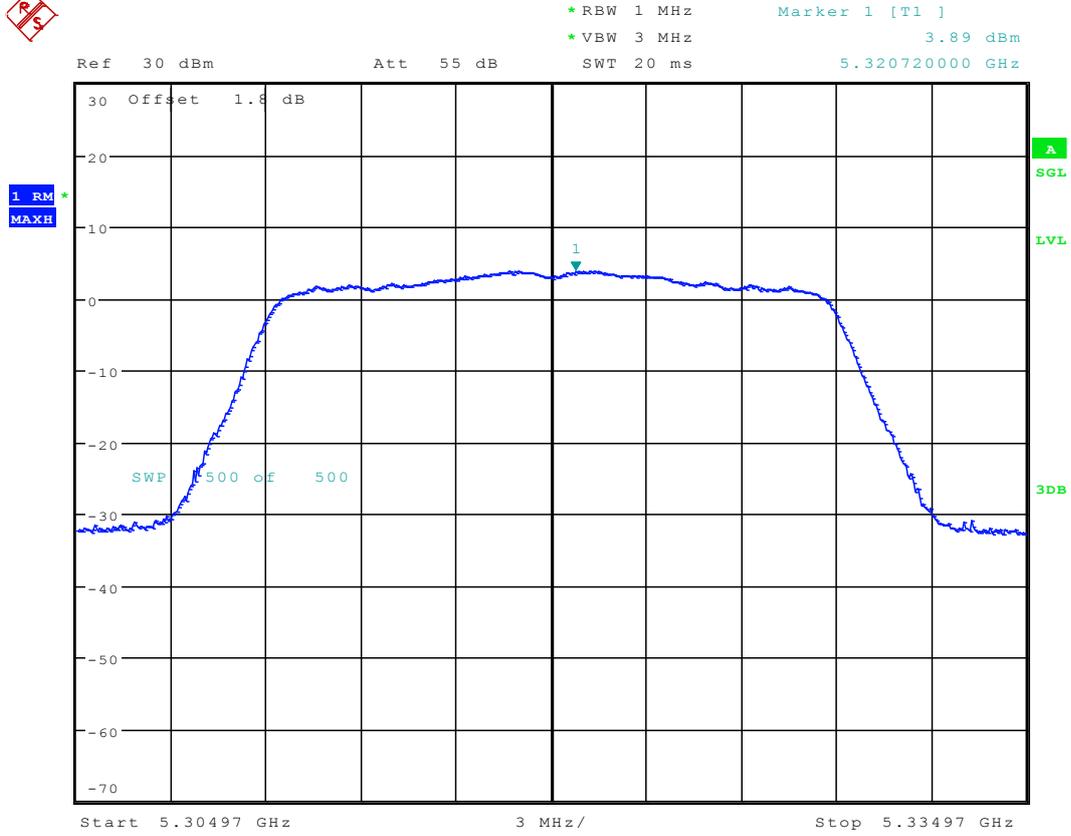
Date: 27.SEP.2016 16:39:35

10.29 11AC20_100 Ant 1

```
                                        * RBW  1 MHz        Marker 1 [T1 ]
                                        * VBW  3 MHz                  4.37 dBm
         Ref  30 dBm            Att  55 dB    SWT 20 ms      5.499050000 GHz

     30  Offset   1.8  dB                                              A
                                                                      SGL
   20

   10                                                                 LVL
                                   1
    0

  -10

  -20
         SWP   500 of   500
  -30                                                                 3DB

  -40

  -50

  -60

  -70
    Start 5.48495 GHz              3 MHz/          Stop 5.51495 GHz
```
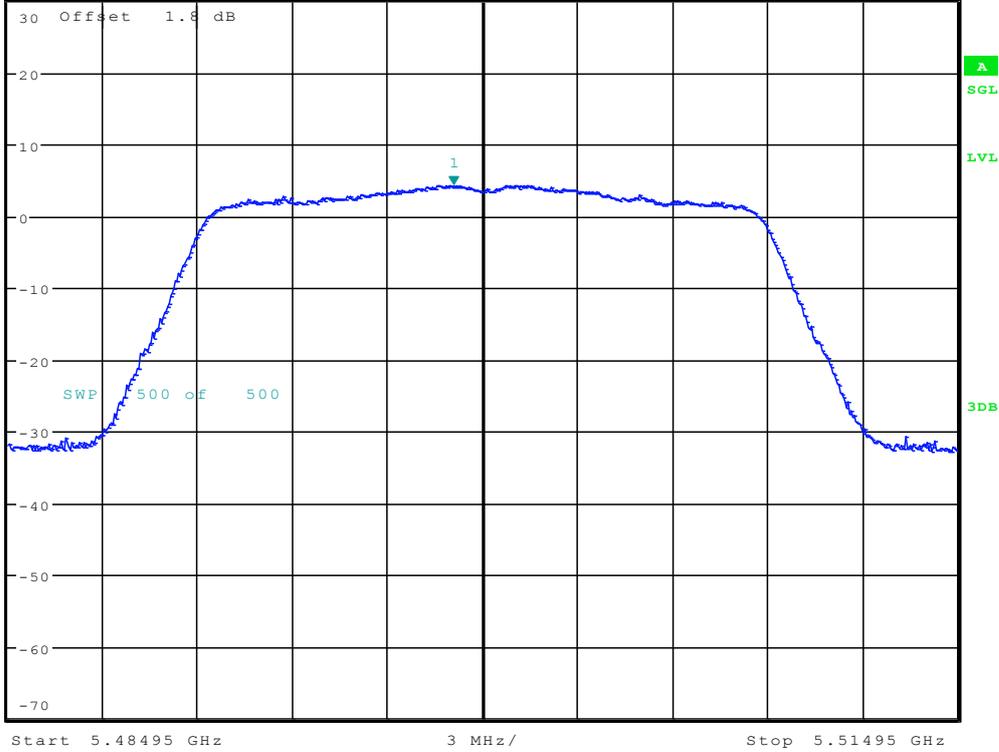
Date: 27.SEP.2016 16:47:42

10.30 11AC20_140 Ant 1
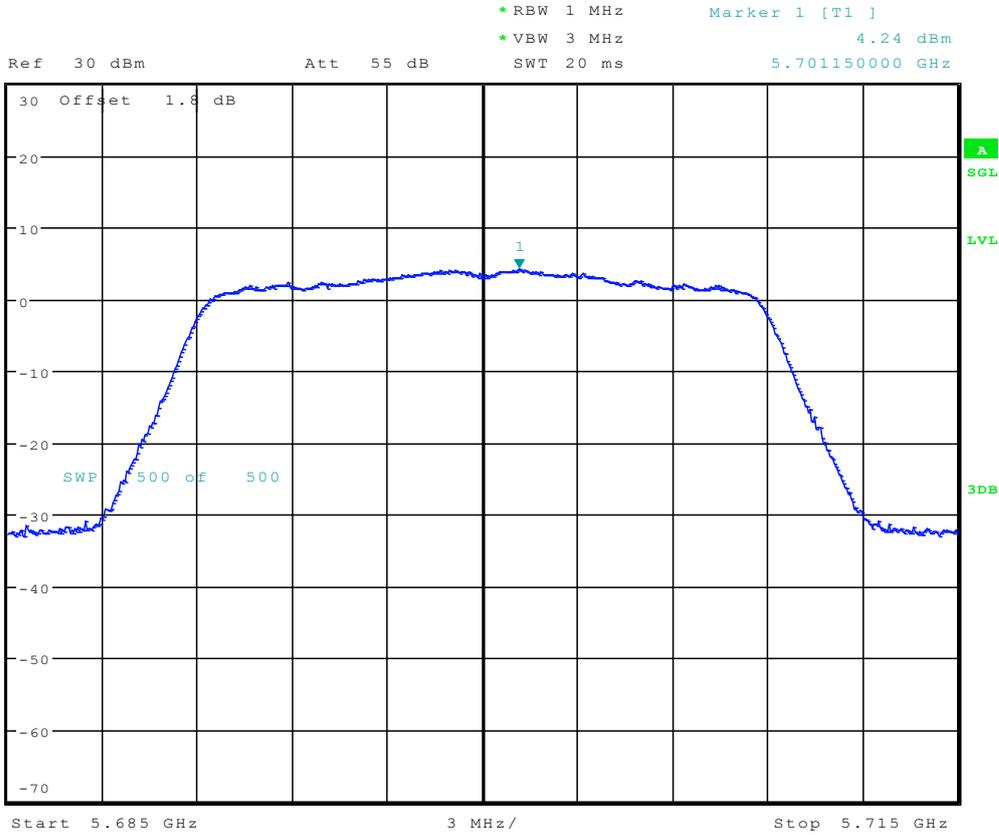
Date: 27.SEP.2016 16:52:57

10.31 11AC20_149 Ant 1
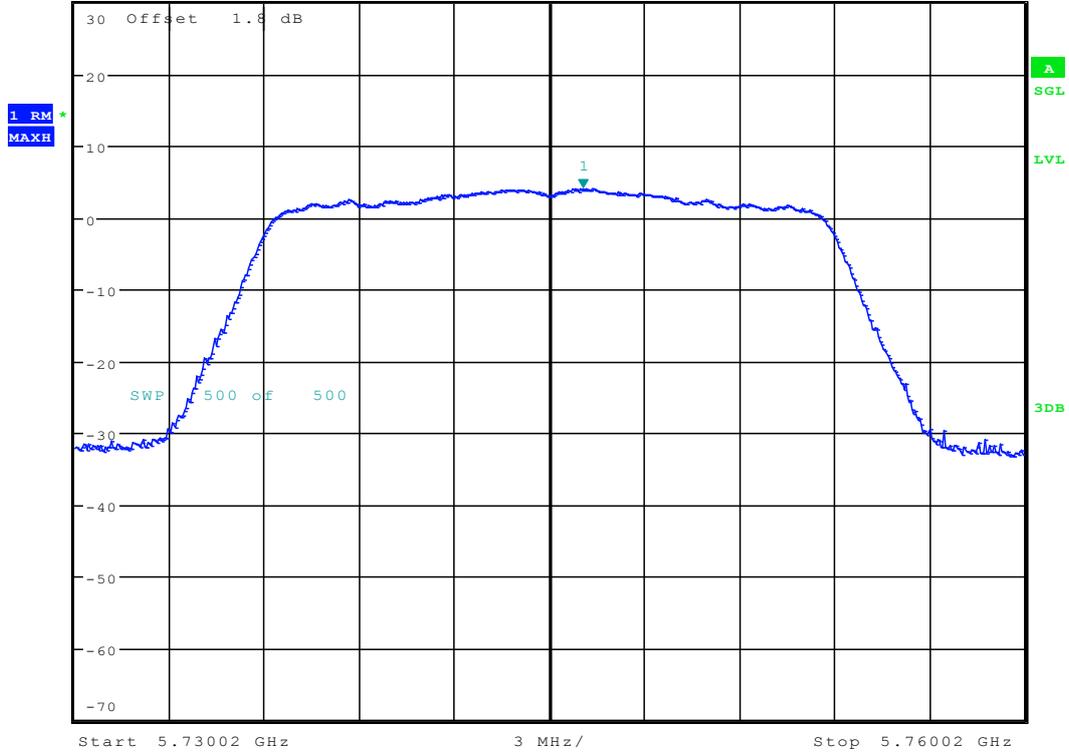
Date: 27.SEP.2016 17:12:07

10.32 11AC20_165 Ant 1
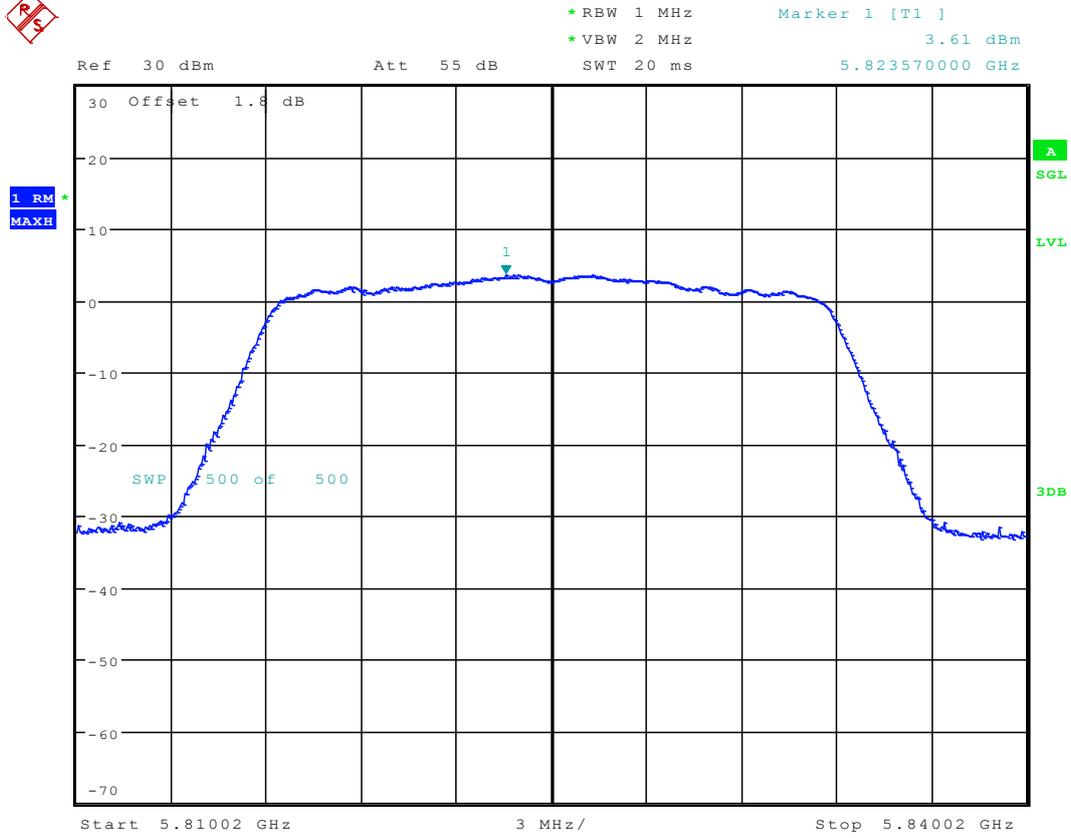
Date: 27.SEP.2016 19:35:25

10.33 11AC40_38 Ant 1


```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz                -0.01 dBm
        Ref  30 dBm        Att  55 dB    SWT  20 ms     5.191720000 GHz
```
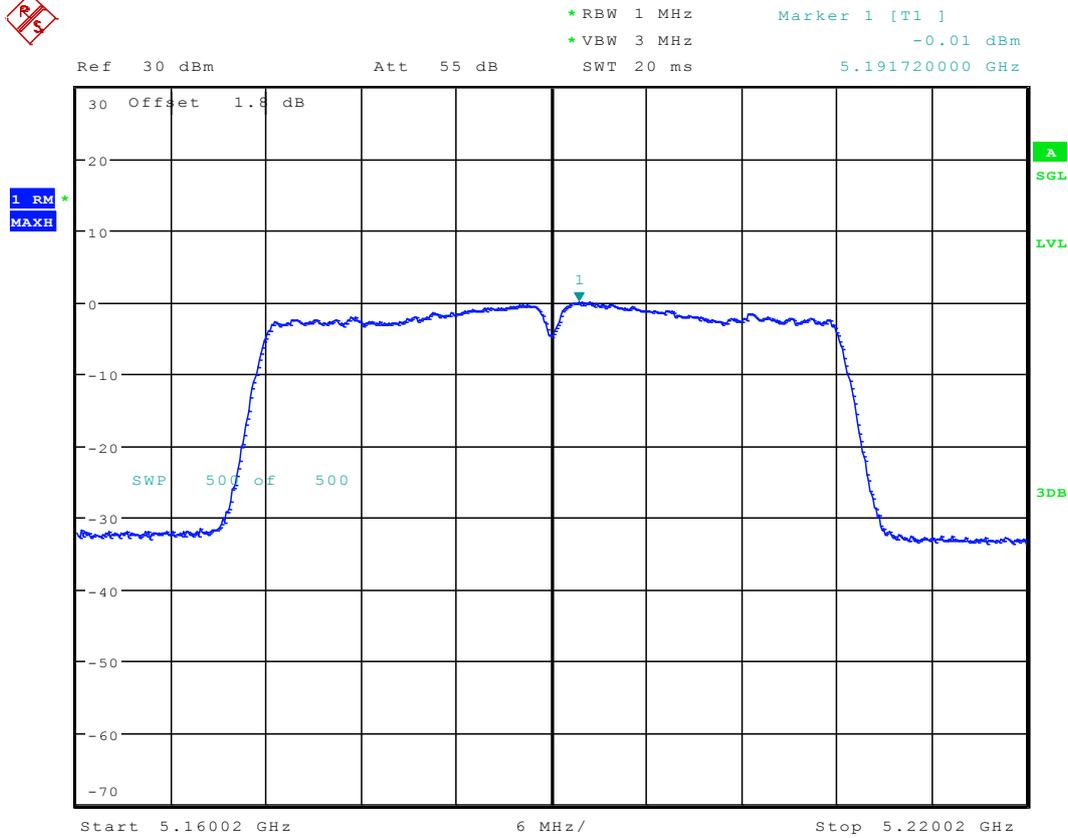
Date: 27.SEP.2016 19:44:00

10.34 11AC40_46 Ant 1
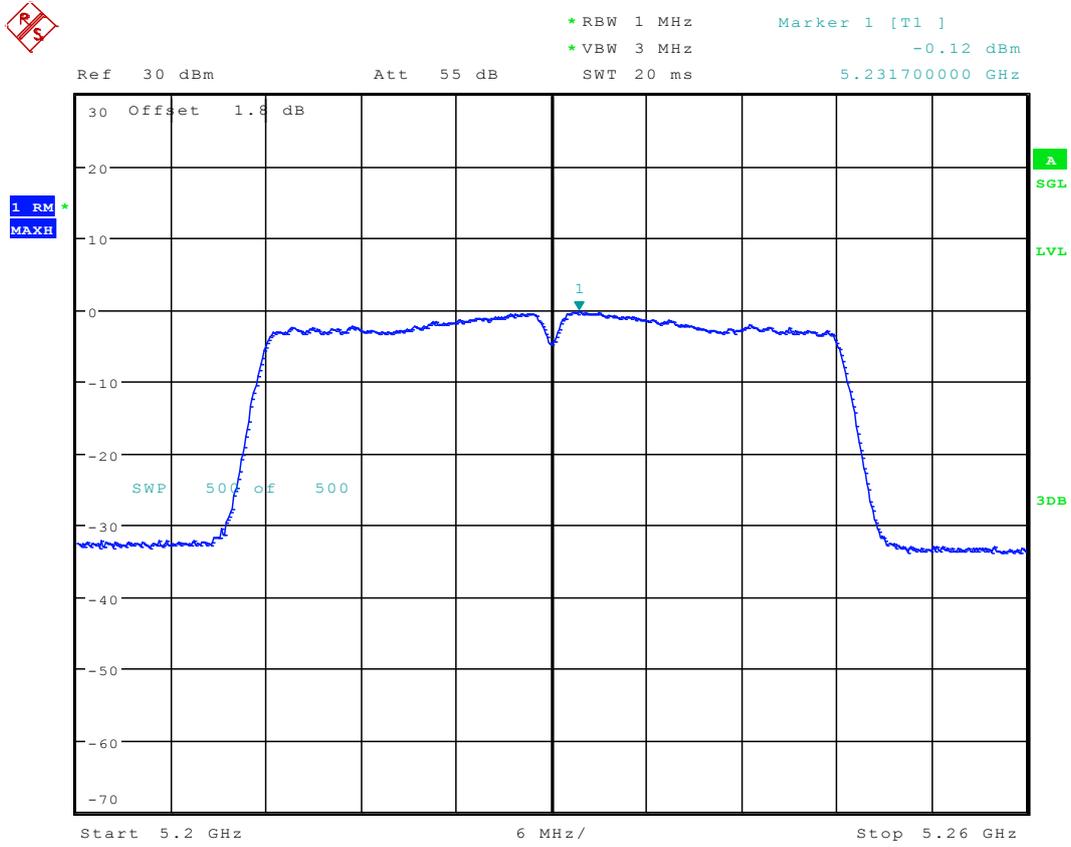
Date: 27.SEP.2016 20:00:19

10.35 11AC40_54 Ant 1
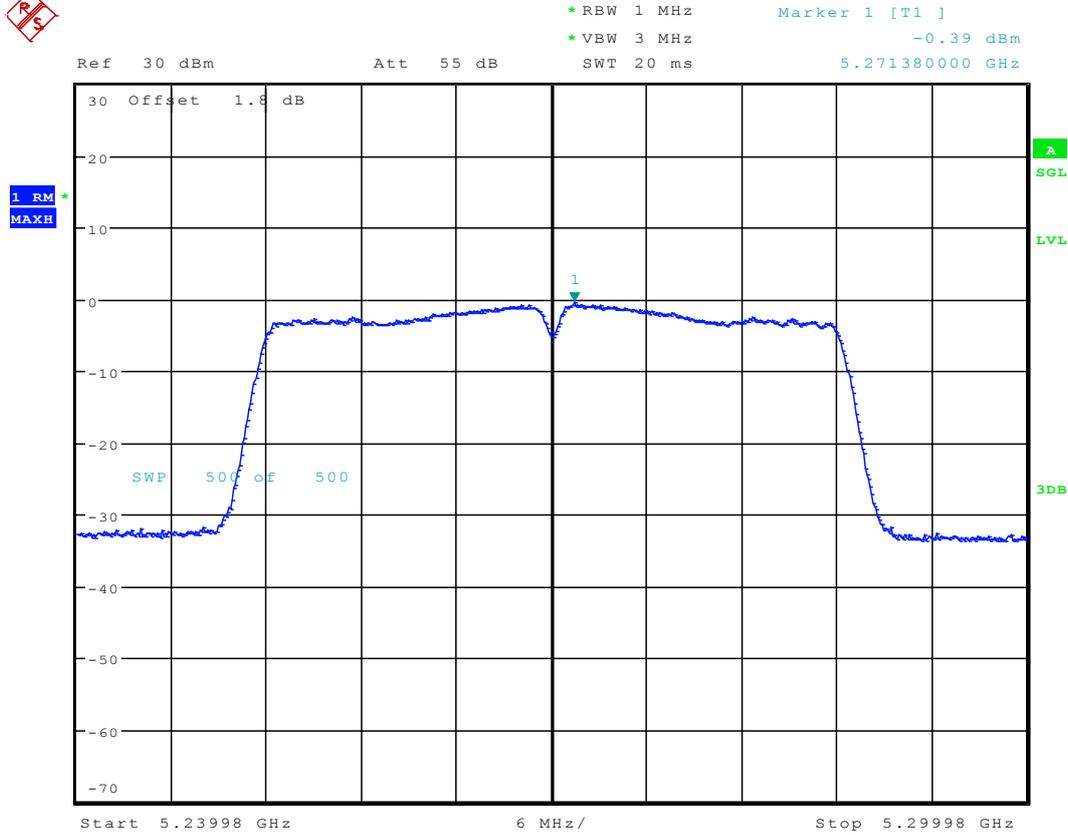
Date: 27.SEP.2016 20:12:14

10.36 11AC40_62 Ant 1
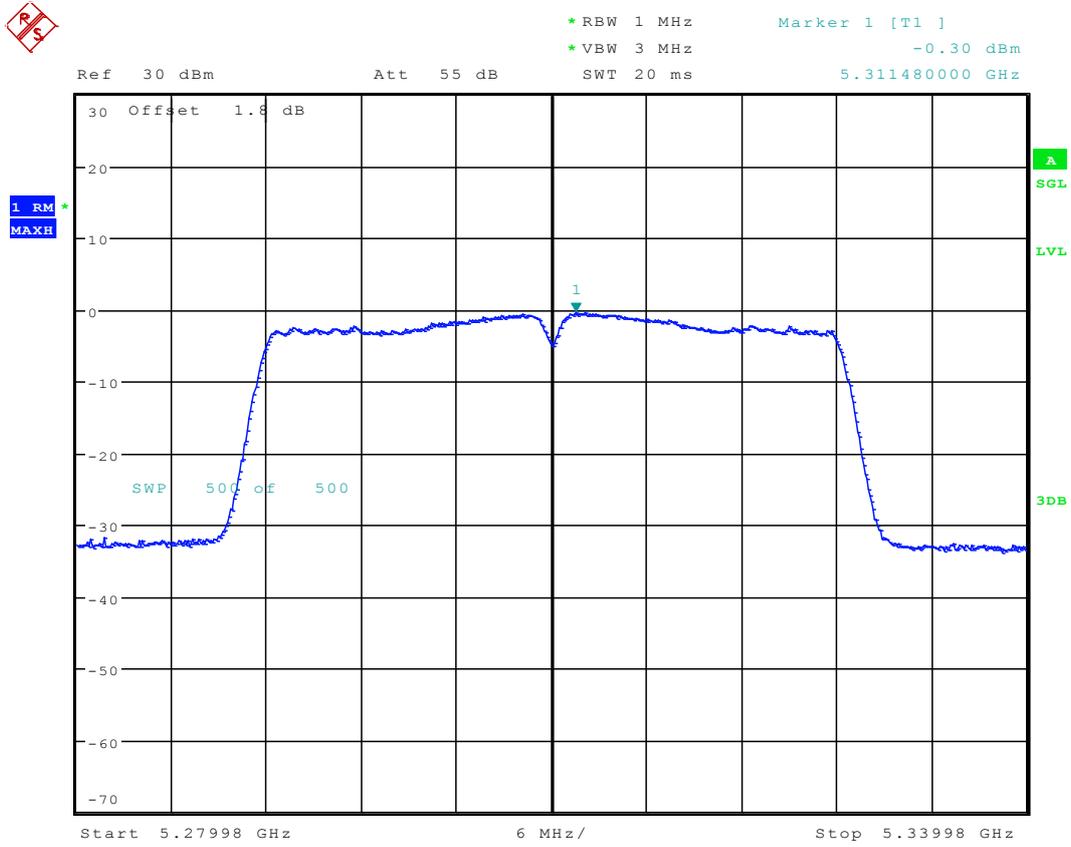
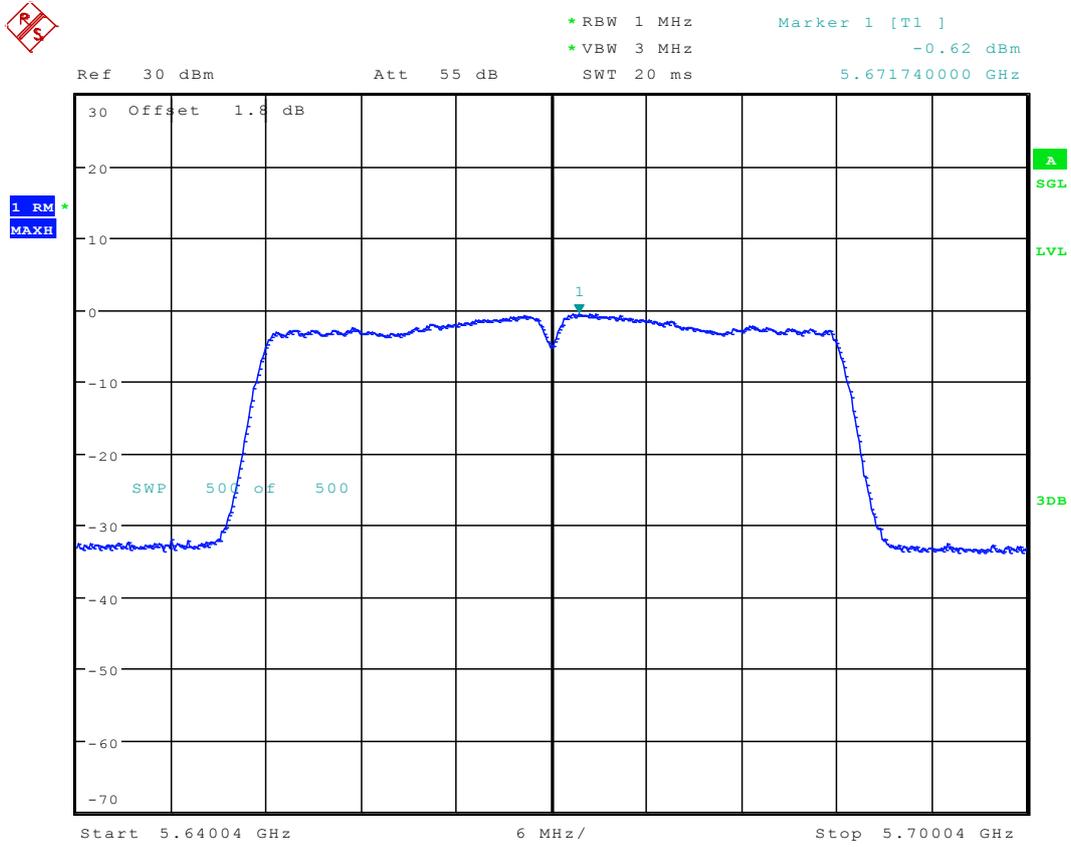Date: 27.SEP.2016 20:19:29

10.37 11AC40_102 Ant 1


```
                                         * RBW  1 MHz        Marker 1 [T1 ]
                                         * VBW  3 MHz                  -0.28 dBm
    Ref   30 dBm          Att   55 dB    SWT  20 ms          5.511660000 GHz
```
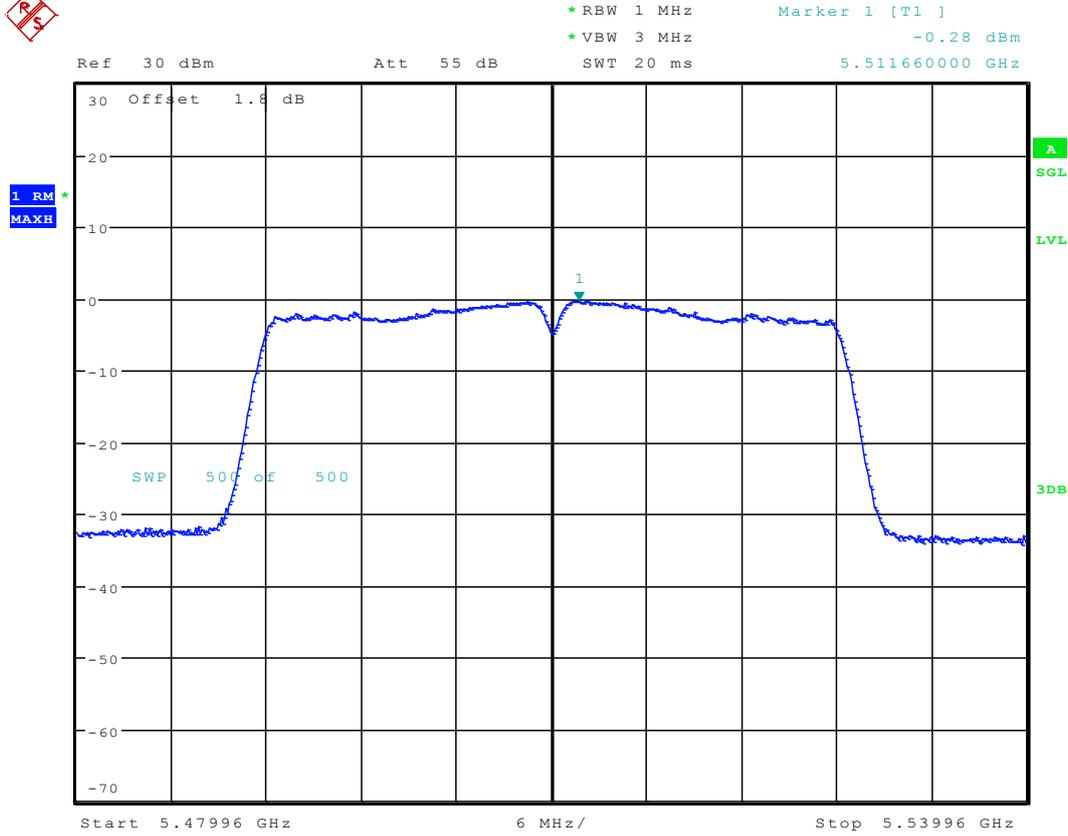
Date: 27.SEP.2016 20:27:25

10.38 11AC40_134 Ant 1

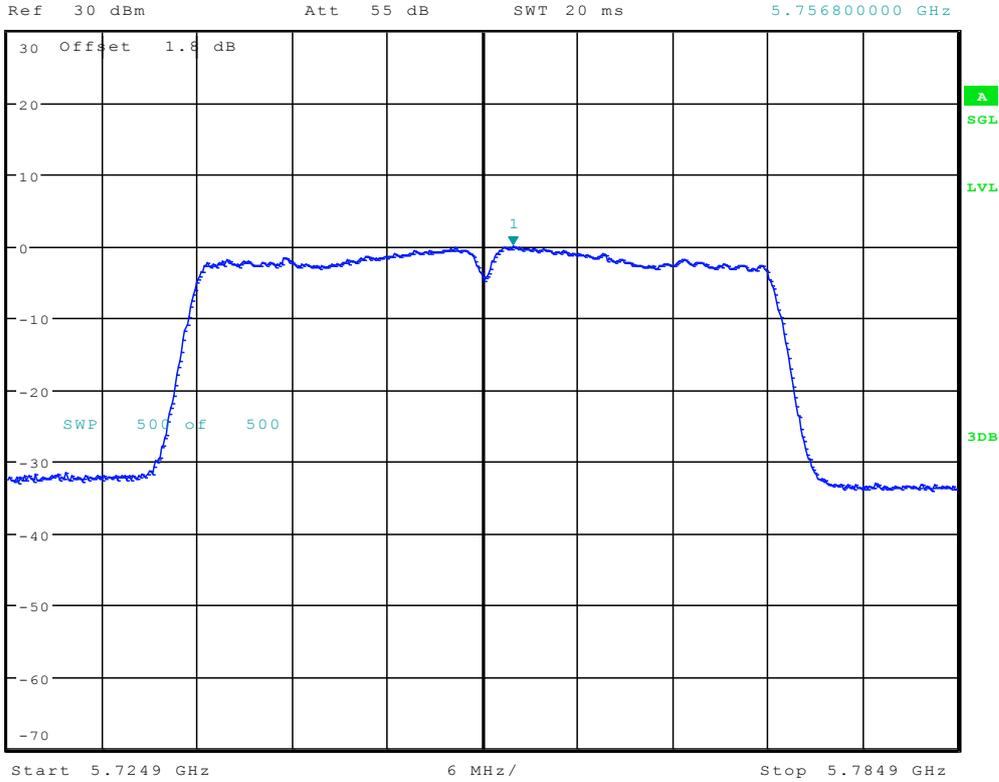
Date: 27.SEP.2016 20:33:40

10.39 11AC40_151 Ant 1


```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  2 MHz                  -0.02 dBm
Ref  30 dBm              Att  55 dB    SWT 20 ms       5.756800000 GHz

30  Offset   1.8  dB                                                    A
20                                                                      SGL

1 RM *
MAXH
                                                                        LVL
                                   1

      SWP   500  of   500                                               3DB

Start 5.7249 GHz              6 MHz/              Stop 5.7849 GHz
```
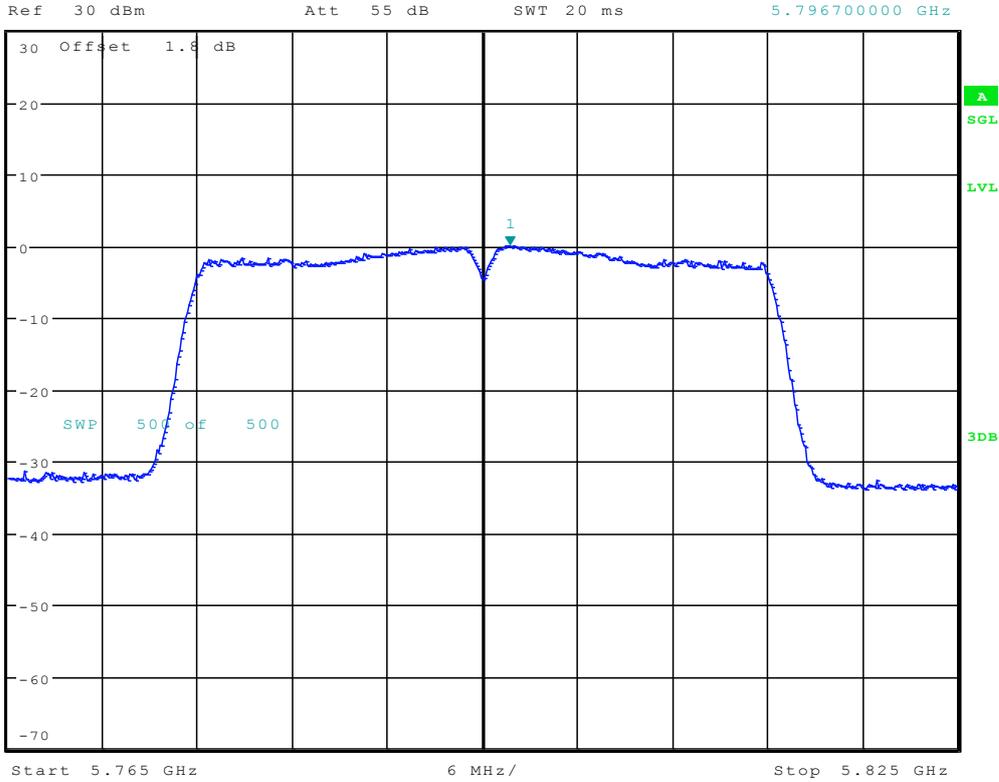
Date: 27.SEP.2016 21:13:52

10.40 11AC40_159 Ant 1

RBW 1 MHz   Marker 1 [T1]
VBW 2 MHz   0.09 dBm
Ref 30 dBm   Att 55 dB   SWT 20 ms   5.796700000 GHz

30 Offset 1.8 dB

A
SGL

1 RM
MAXH

LVL

3DB

SWP 500 of 500

Start 5.765 GHz   6 MHz/   Stop 5.825 GHz

Date: 27.SEP.2016 21:23:03

10.41 11AC80_42 Ant 1


```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz                   -3.64 dBm
        Ref  30 dBm         Att  55 dB    SWT 20 ms     5.211826667 GHz

        30  Offset  2.2 dB                                              A
      -20                                                              SGL

  1 RM *
  MAXH  -10                                                           LVL

        -0                      1

       -10

       -20
        SWP  500 of  500                                              3DB
       -30

       -40

       -50

       -60

       -70
        Start 5.150026667 GHz         12 MHz/        Stop 5.270026667 GHz
```
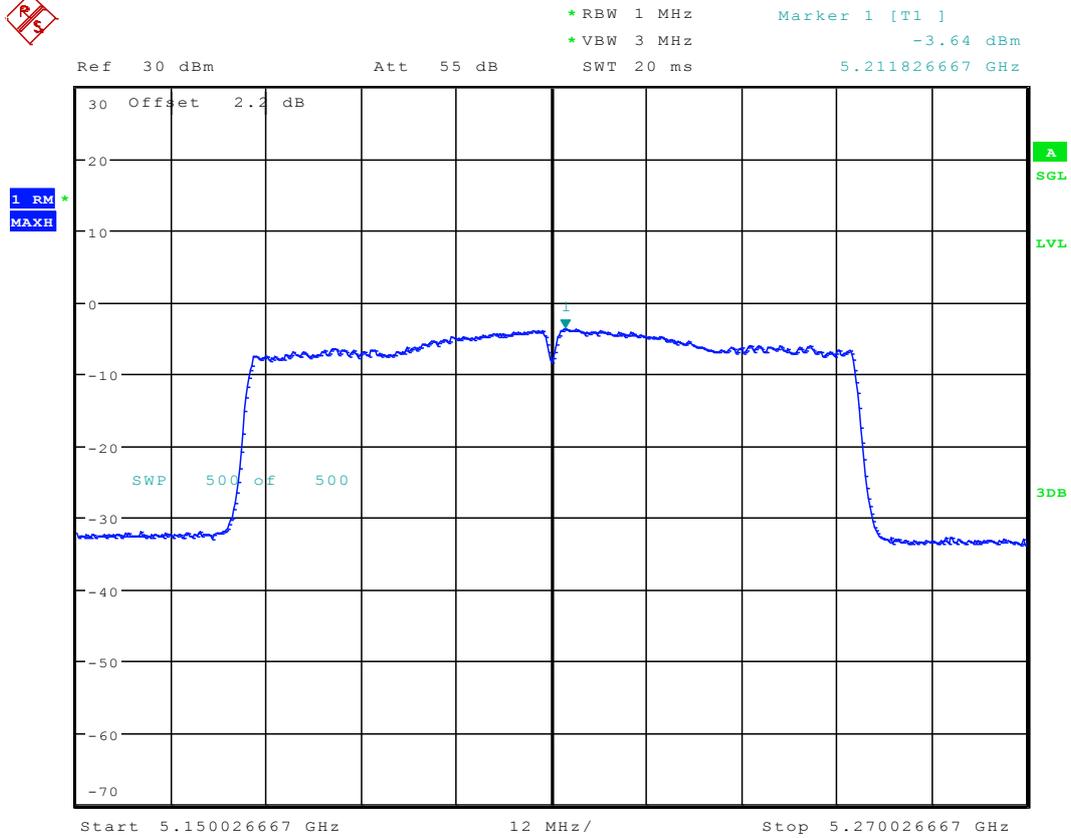
Date: 27.SEP.2016 21:34:37

10.42 11AC80_58 Ant 1


```
* RBW 1 MHz          Marker 1 [T1 ]
* VBW 3 MHz                    -3.85 dBm
Ref  30 dBm          Att  55 dB    SWT 20 ms        5.292653333 GHz
```
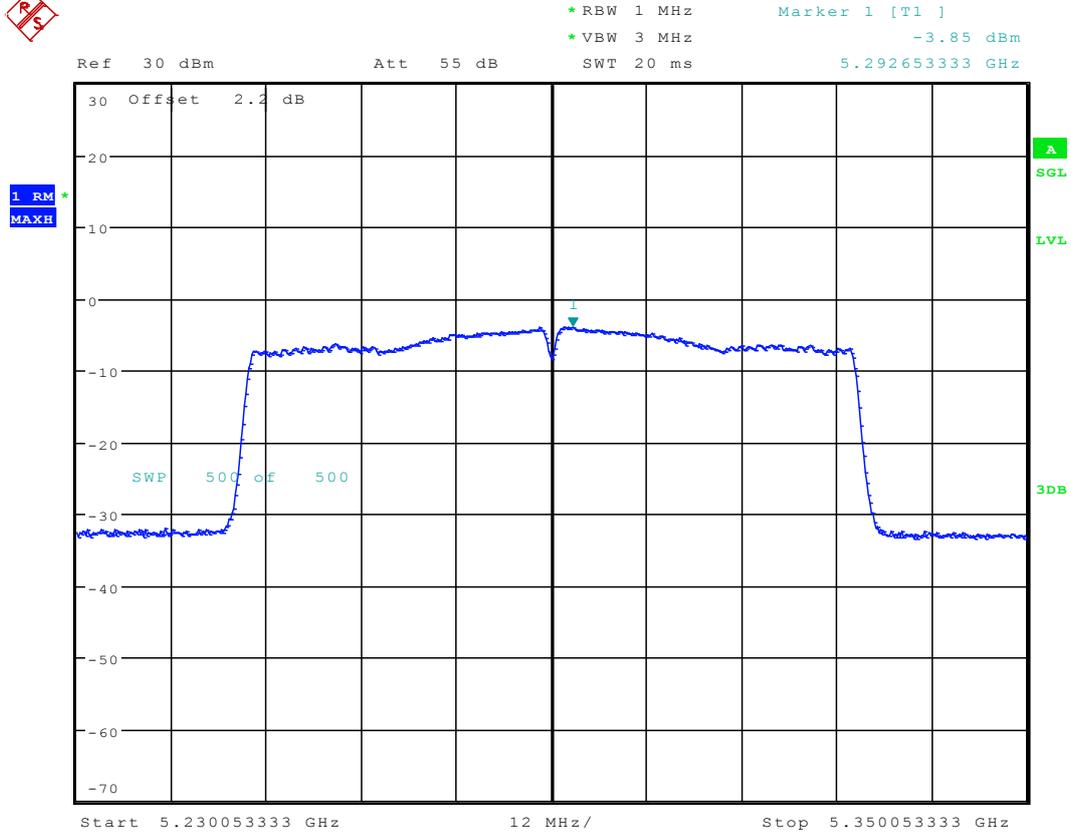
Date: 27.SEP.2016 21:42:49

10.43 11AC80_106 Ant 1
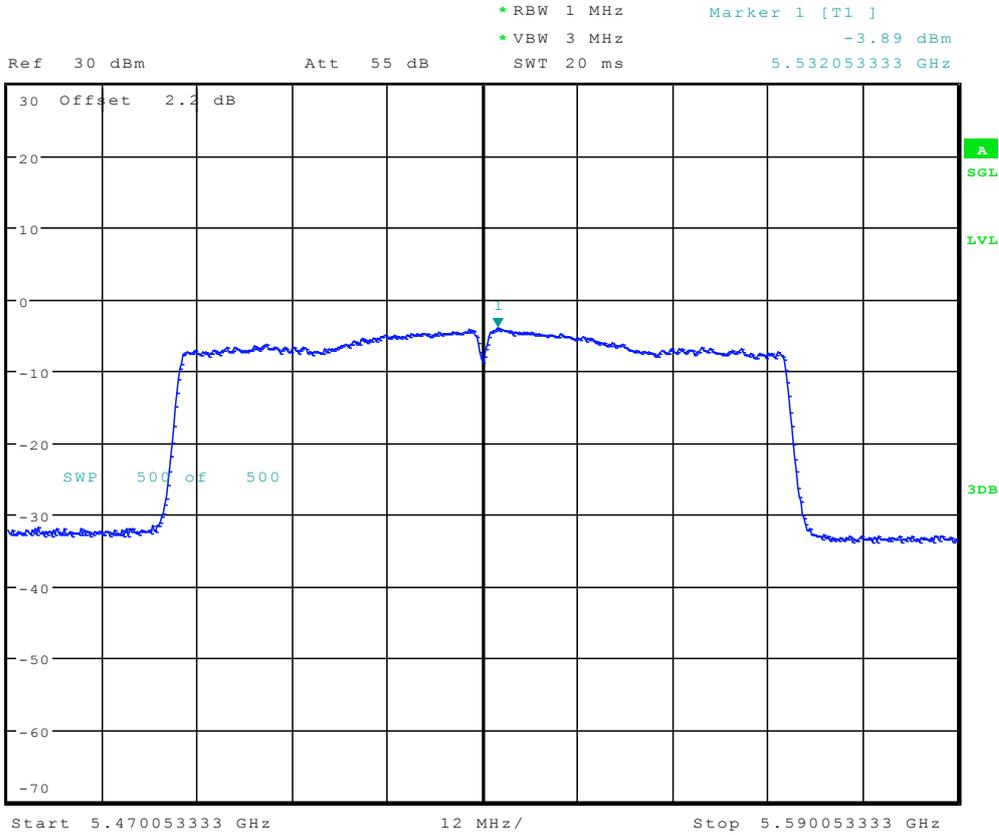
Date: 27.SEP.2016 21:47:55

10.44 11AC80_155 Ant 1


```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  2 MHz                  -3.71 dBm
     Ref  30 dBm          Att  55 dB   SWT 20 ms        5.776626667 GHz
```

Start 5.715026667 GHz   12 MHz/   Stop 5.835026667 GHz
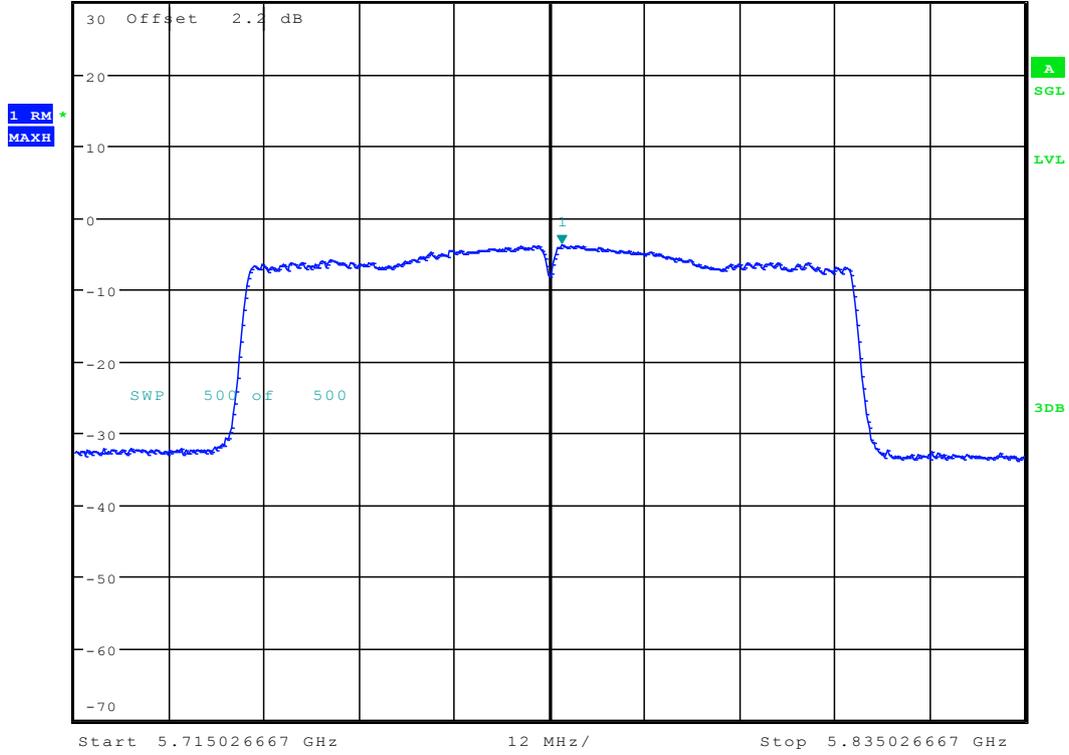
Date: 27.SEP.2016 21:58:40

Appendix F: Unwanted Emissions into Non-Restricted Frequency Bands

11 Result Table

FCC Part15, Subpart E		
Test Item	**Frequency Range**	**Result**
Unwanted Emissions into Non-Restricted Frequency Bands	5150-5250	pass
	5250-5350	pass
	5470-5725	pass
	5725-5825	pass

12 Test Plot

12.1 11A_36 Ant 1
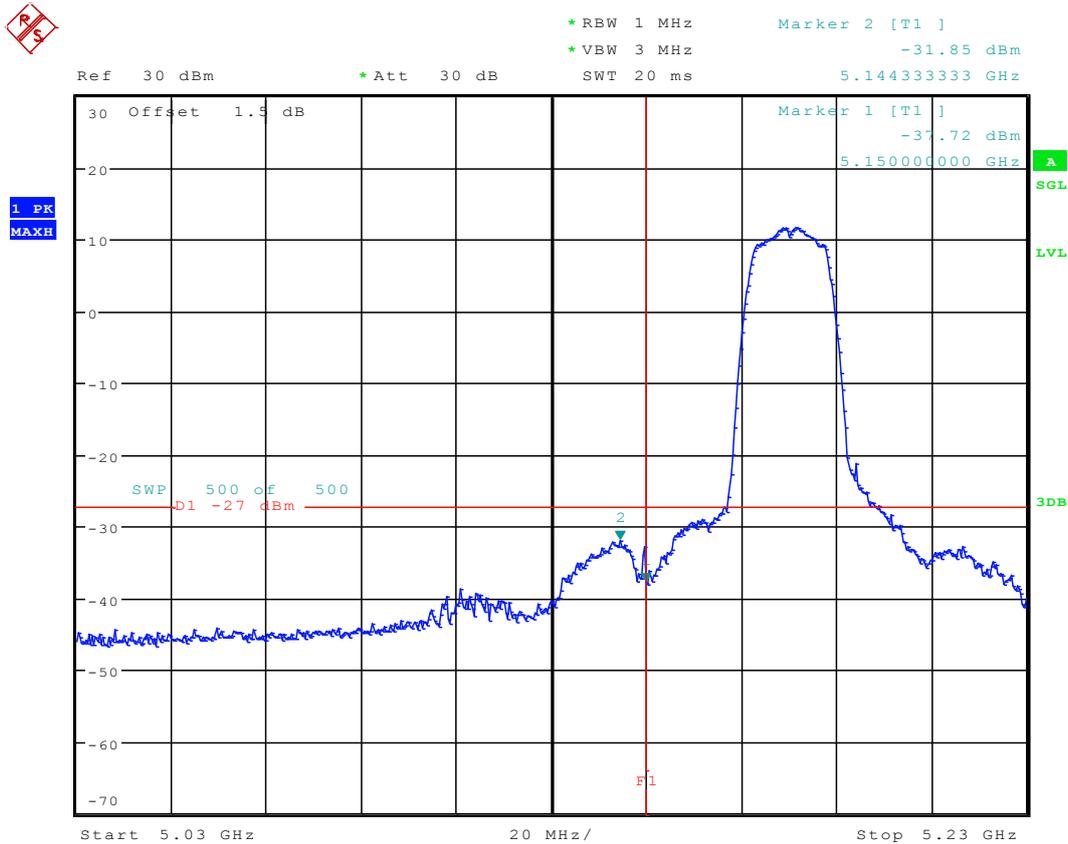
Date: 26.SEP.2016 20:56:34

12.2 11A_48 Ant 1


```
                                    *RBW  1 MHz        Marker 2 [T1 ]
                                    *VBW  3 MHz                  -43.25 dBm
Ref  30 dBm          *Att  30 dB    SWT 20 ms         5.378666667 GHz
30  Offset  1.5 dB                                   Marker 1 [T1 ]
                                                              -44.75 dBm
-20                                                  5.350000000 GHz   A
                                                                       SGL
1 PK
MAXH
-10                                                                    LVL
-0
--10
--20
SWP     500  of    500
D1  -27 dBm                                                            3DB
--30
--40
--50
--60
                                                     F1
-70
Start  5.19 GHz                  20 MHz/            Stop  5.39 GHz
```
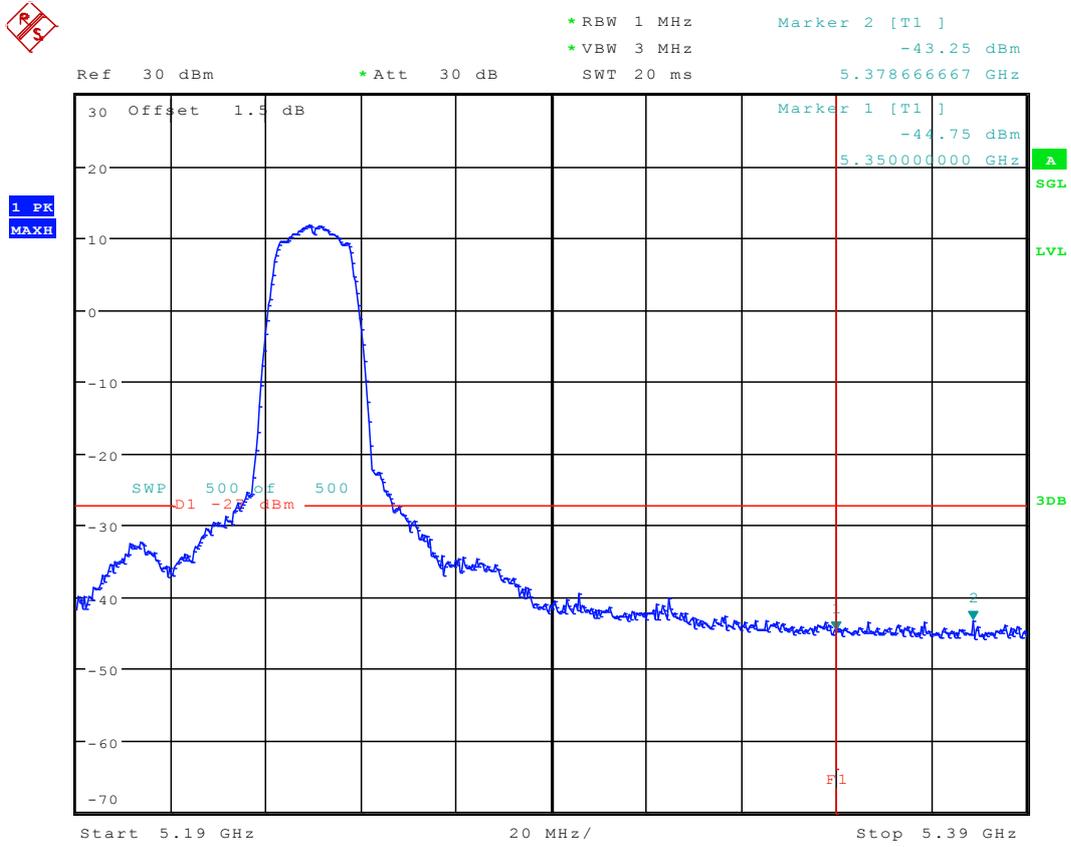
Date: 26.SEP.2016 21:03:45

12.3 11A_52 Ant 1


```
* RBW  1 MHz          Marker 2 [T1 ]
* VBW  3 MHz                   -43.98 dBm
Ref  30 dBm          * Att  30 dB    SWT 20 ms    5.128666667 GHz

30  Offset  1.5  dB                   Marker 1 [T1 ]
                                              -44.66 dBm
-20                                      5.150000000 GHz    A
                                                            SGL
1 PK
MAXH
-10                                                          LVL

0

-10

-20
     SWP   500 of   500
     D1 -27 dBm                                              3DB
-30

-40
  2         1

-50

-60

-70
Start  5.11 GHz              20 MHz/              Stop  5.31 GHz
```
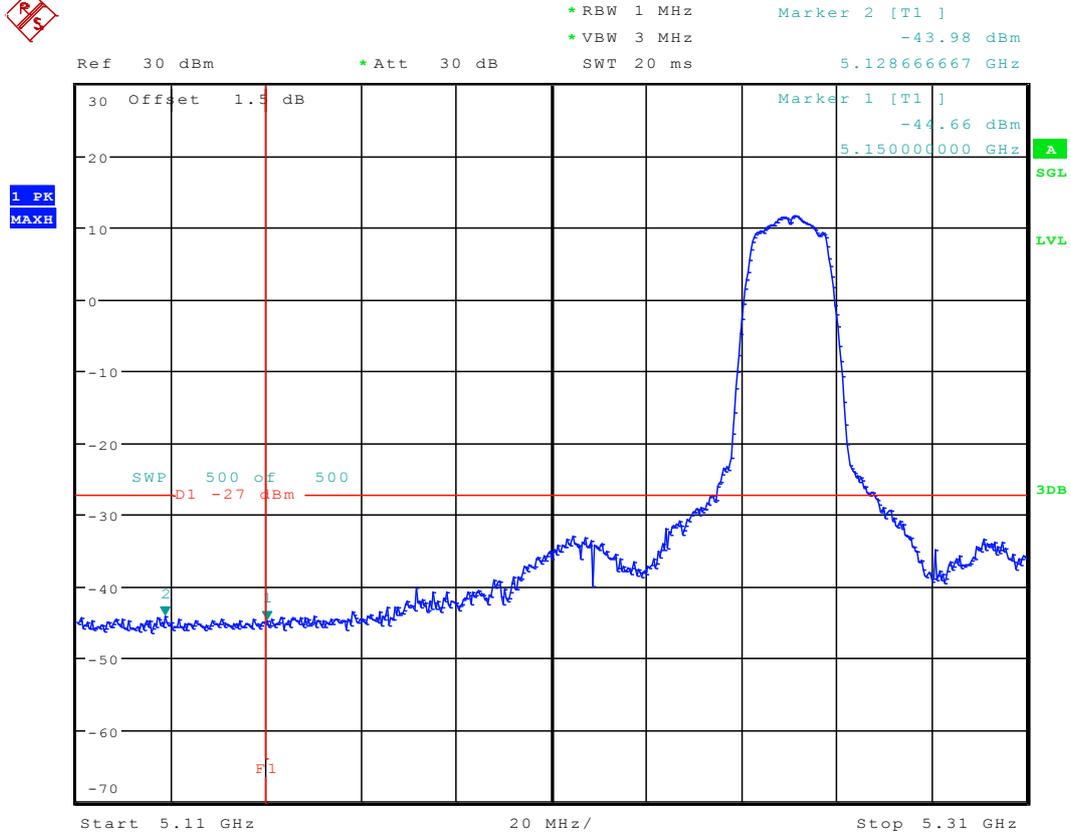
Date: 26.SEP.2016 21:10:00

12.4 11A_64 Ant 1


```
                                    * RBW  1 MHz        Marker 2 [T1 ]
                                    * VBW  3 MHz                -33.36 dBm
     Ref  30 dBm          * Att  30 dB    SWT 20 ms       5.361666667 GHz

     30  Offset  1.5 dB                        Marker 1 [T1 ]
                                                       -37.57 dBm
     20                                           5.350000000 GHz    A
                                                                    SGL
  1 PK
  MAXH 10                                                           LVL


     0



    -10



    -20
        SWP   500 of   500                                          3DB
    -30 D1 -27 dBm

    -40

    -50

    -60

    -70
     Start 5.27 GHz              20 MHz/              Stop 5.47 GHz
```
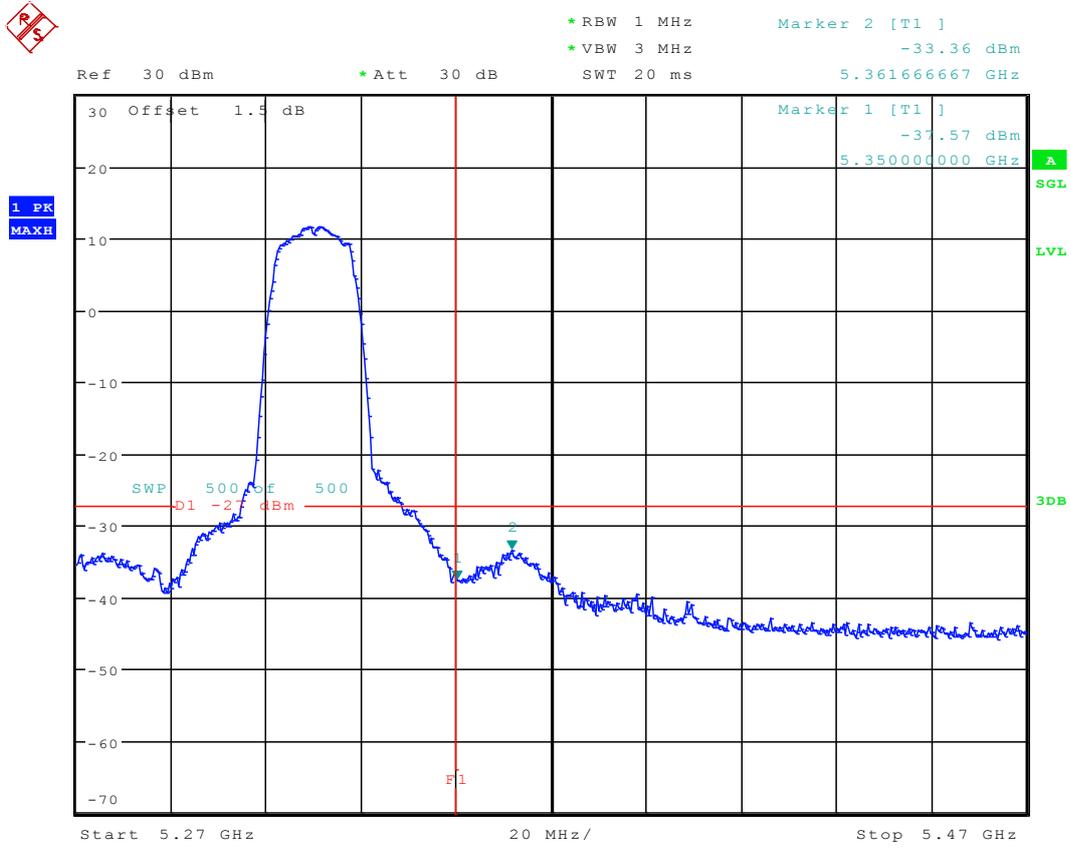
Date: 26.SEP.2016 21:14:40

12.5 11A_100 Ant 1


```
                                        * RBW  1 MHz        Marker 2 [T1 ]
                                        * VBW  3 MHz                  -31.72 dBm
    Ref  30 dBm              * Att  30 dB     SWT 20 ms      5.469333333 GHz

    30  Offset  1.5 dB                        Marker 1 [T1 ]
                                                             -32.14 dBm
                                                    5.470000000 GHz    A
                                                                       SGL
 1 PK
 MAXH                                                                   LVL

    SWP   500 of   500
    D1 -27 dBm                                                          3DB

                                          F1
    Start  5.35 GHz              20 MHz/           Stop  5.55 GHz
```
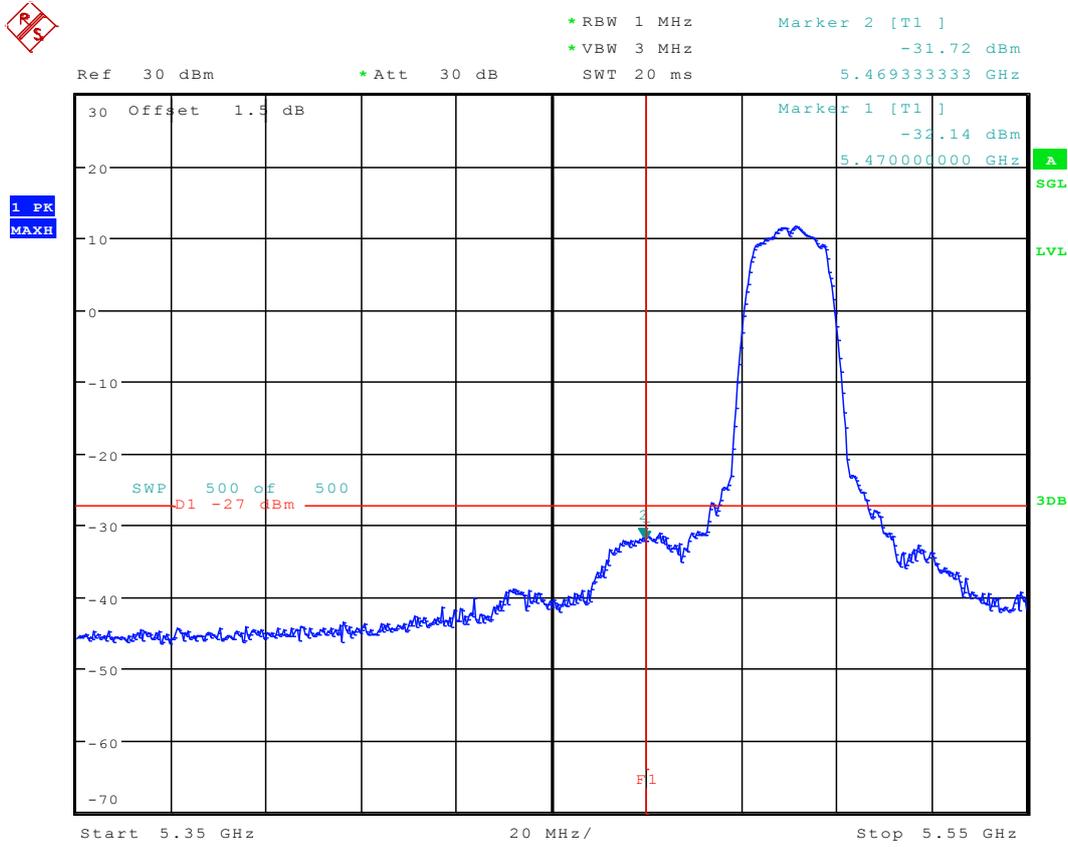
Date: 26.SEP.2016 21:26:46

12.6   11A_140 Ant 1


```
                                        * RBW  1 MHz       Marker 2 [T1 ]
                                        * VBW  3 MHz              -30.87 dBm
              Ref  30 dBm        * Att  30 dB    SWT 20 ms       5.730000000 GHz
         30  Offset  1.5 dB                       Marker 1 [T1 ]
                                                         -32.07 dBm
         -20                                          5.725000000 GHz   A
 1 PK                                                                   SGL
 MAXH
         -10                                                            LVL

          0

         -10

         -20
              SWP   500 of   500                                        3DB
             D1  -27 dBm
         -30

         -40

         -50

         -60
                   F1
         -70
         Start 5.65 GHz                20 MHz/            Stop  5.85 GHz
```
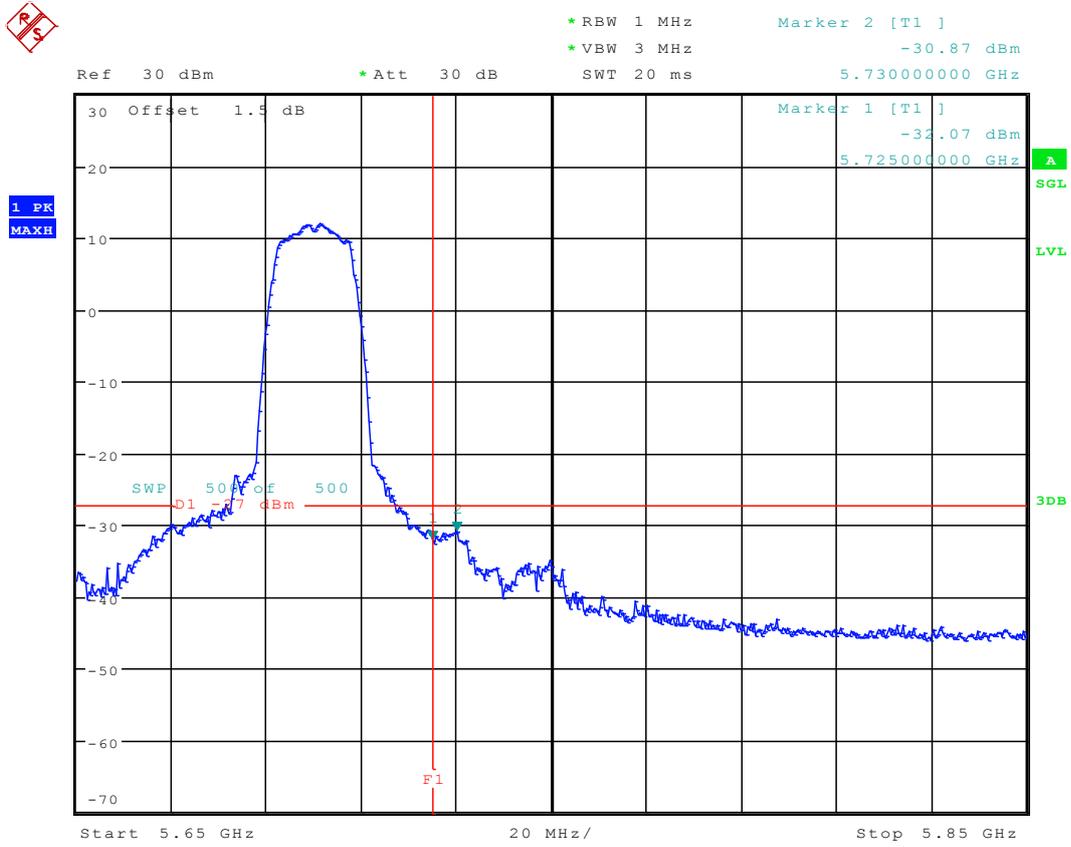
Date: 26.SEP.2016 21:32:00

12.7 11A_149 Ant 1


```
                                        * RBW  1 MHz        Marker 3 [T1 ]
                                        * VBW  3 MHz                -33.60 dBm
 Ref  30 dBm            * Att  30 dB    SWT 20 ms         5.714666667 GHz

  30  Offset  1.5  dB                              Marker 1 [T1 ]
                                                          -33.78 dBm
   20                                              5.715000000 GHz   A
                                                                     SGL
                                                   Marker 2 [T1 ]
   10                                                     -25.28 dBm
                                                   5.725000000 GHz   LVL

    0

  -10

        D1 -17 dBm                                                   3DB
  -20
        SWP   500 of   500
        D2 -27 dBm
  -30

  -40

  -50

  -60
                              F2
  -70              F1

 Start  5.595 GHz          20 MHz/           Stop  5.795 GHz
```
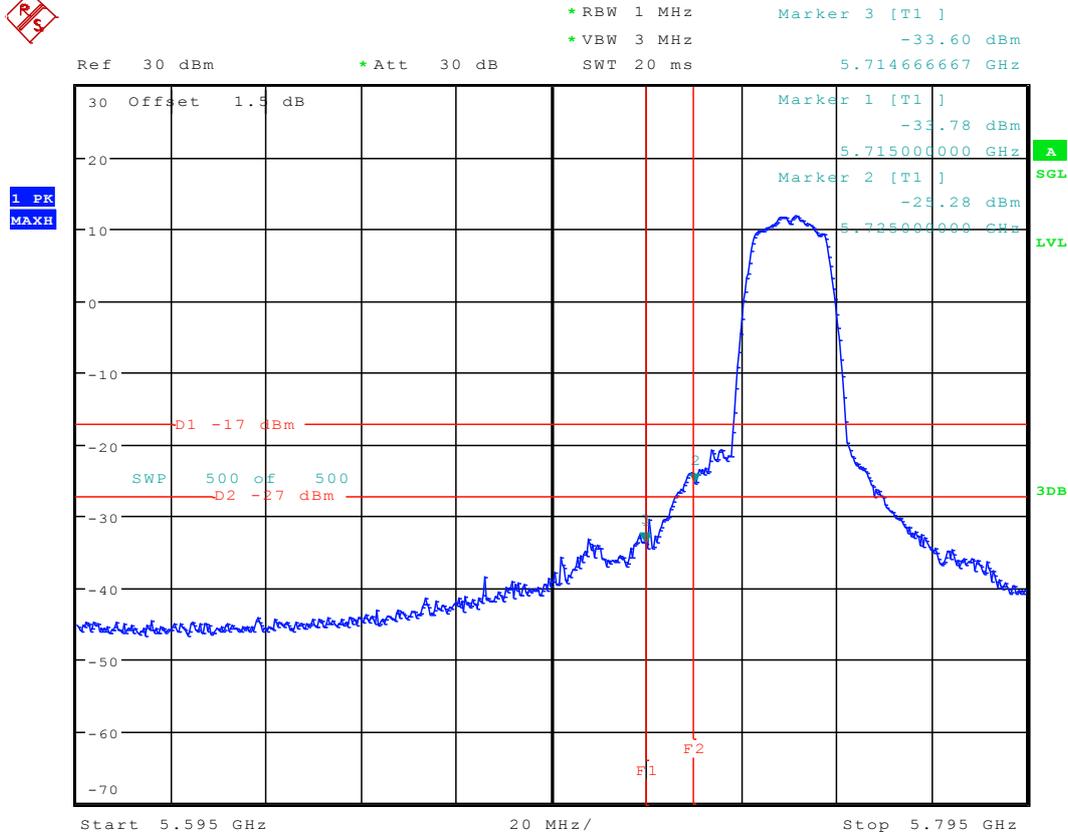
Date: 26.SEP.2016 21:41:18

12.8 11A_165 Ant 1
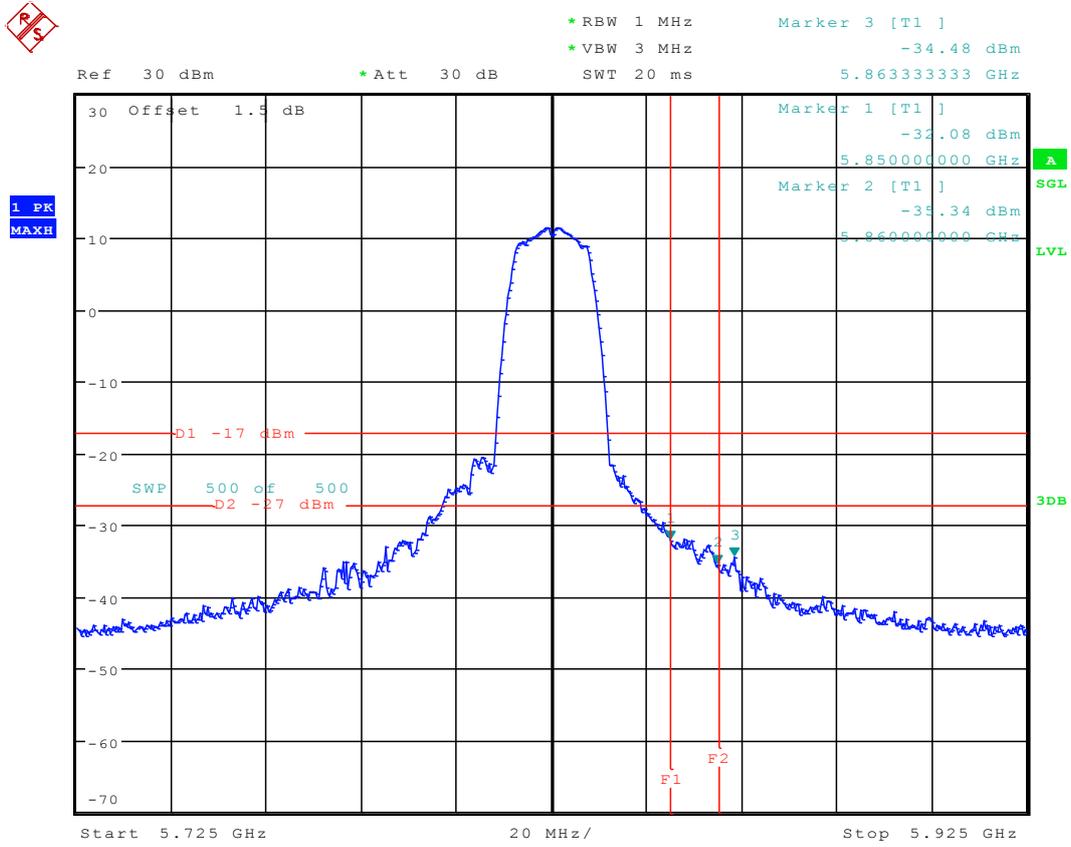
Date: 26.SEP.2016 21:51:43

12.9 11N20_36 Ant 1
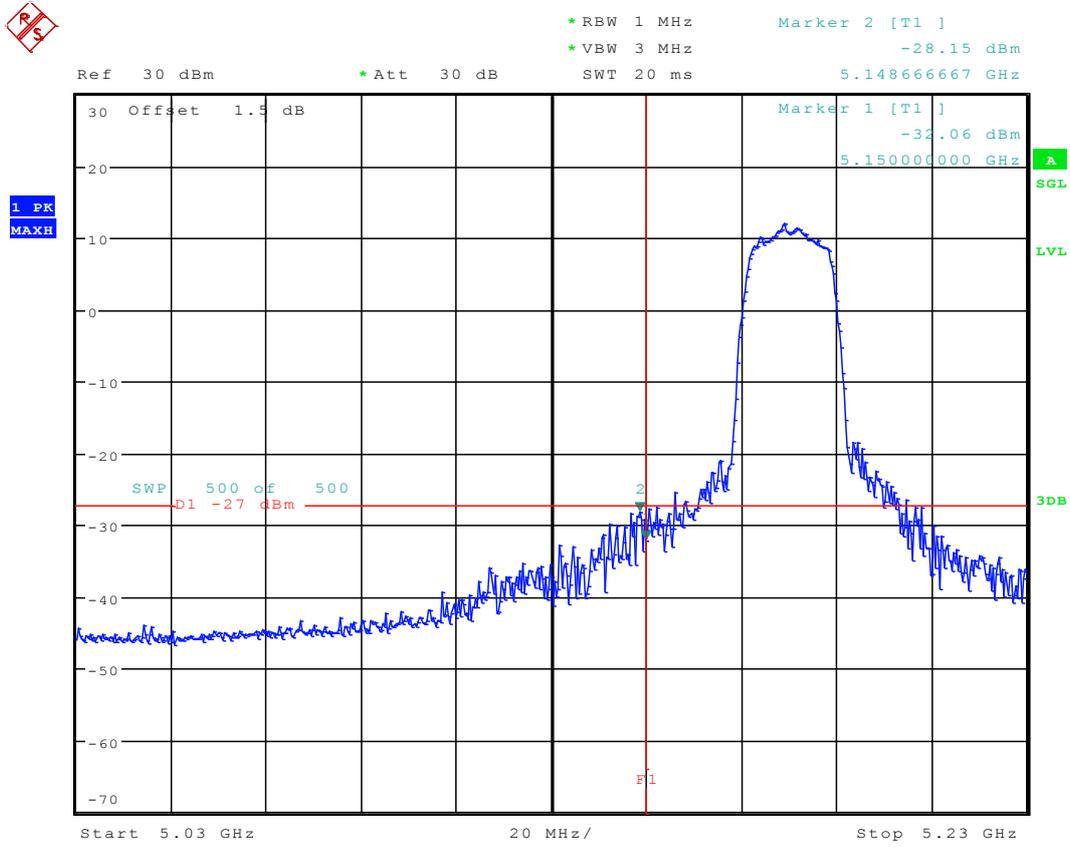
Date: 27.SEP.2016 12:12:30
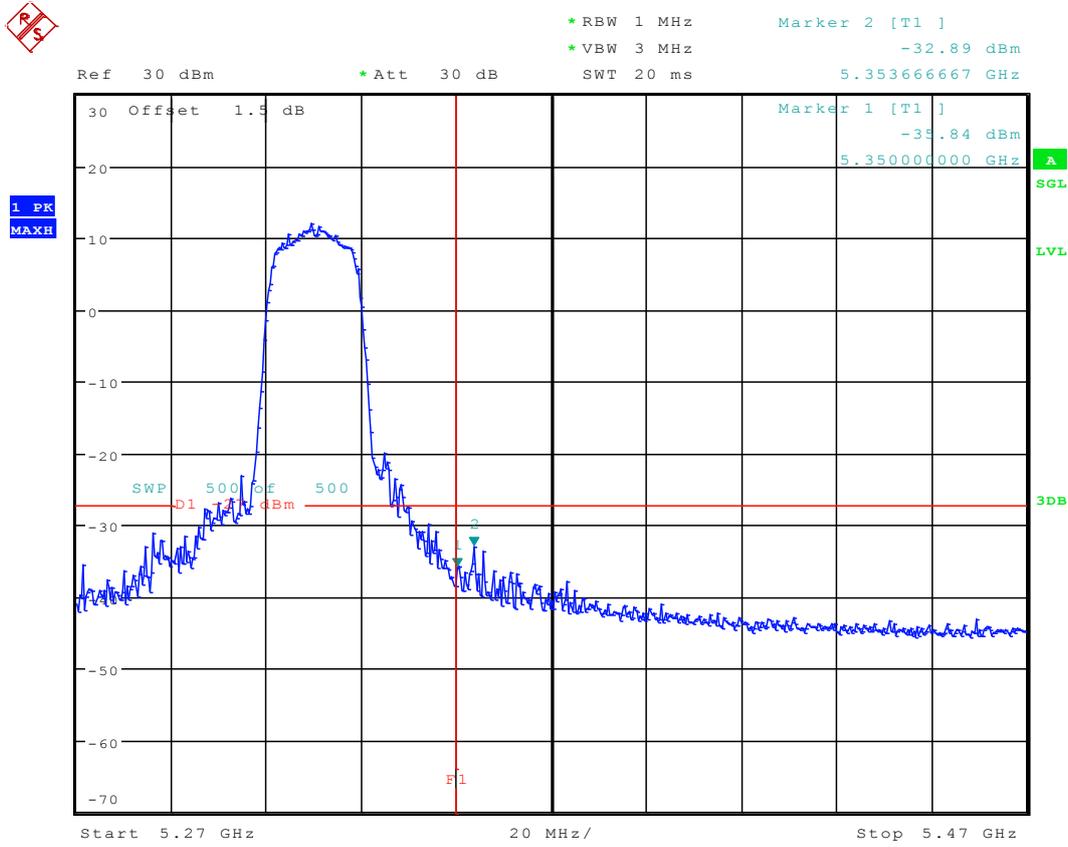
12.10 11N20_48 Ant 1
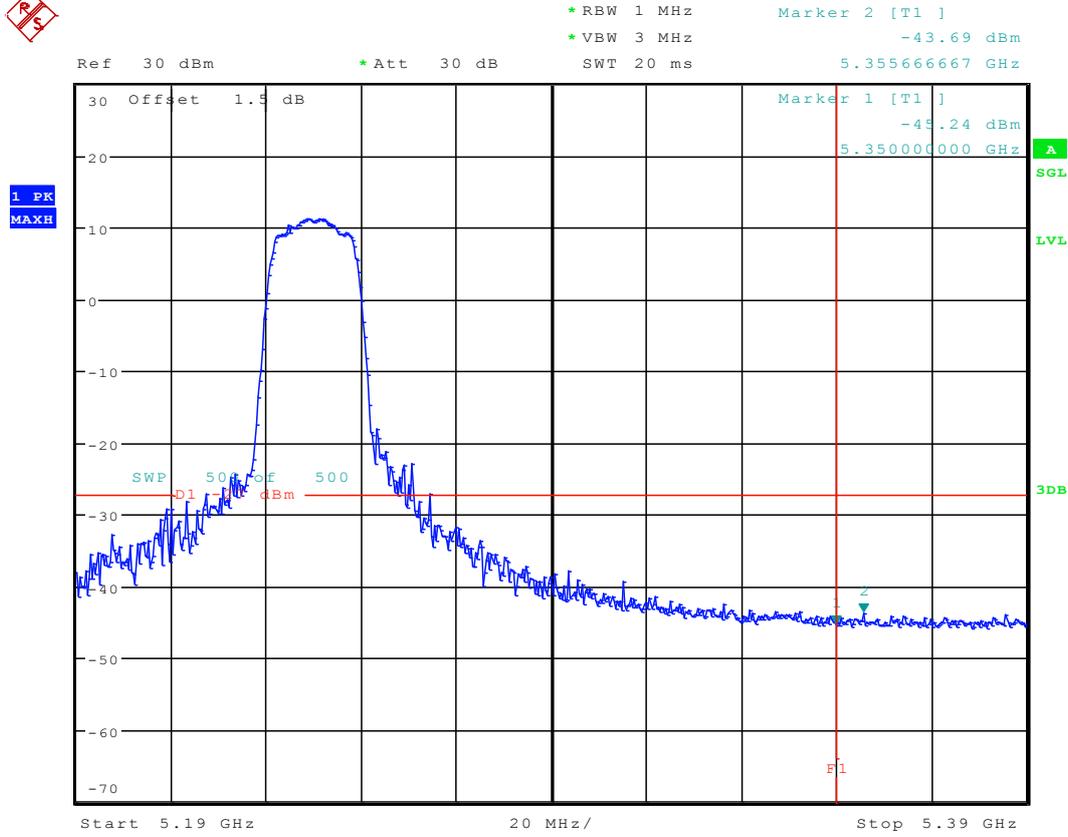
Date: 27.SEP.2016 12:17:35
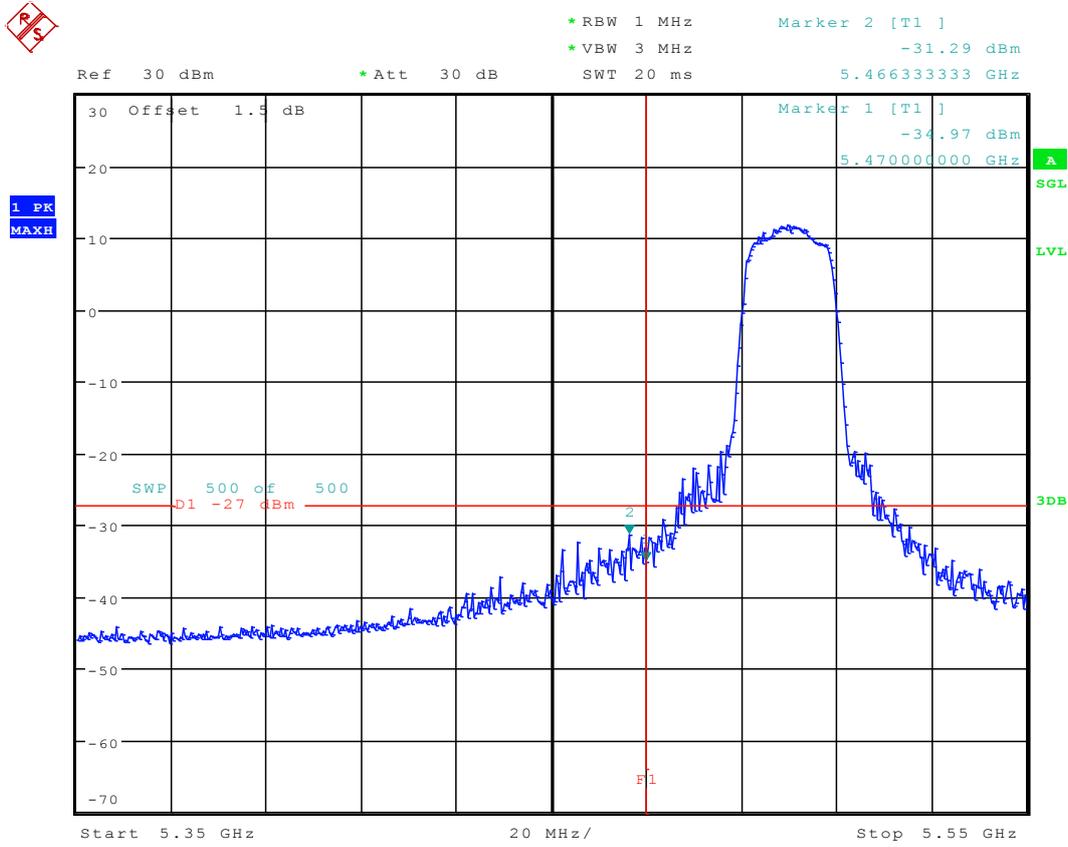
12.11 11N20_52 Ant 1


```
                                        *RBW  1 MHz      Marker 2 [T1 ]
                                        *VBW  3 MHz              -44.32 dBm
          Ref   30 dBm          *Att  30 dB   SWT  20 ms   5.125666667 GHz

          30  Offset  1.5  dB                  Marker 1 [T1 ]
                                                            -45.86 dBm
        -20                                            5.150000000 GHz   A
                                                                         SGL
  1 PK
  MAXH  -10                                                              LVL

          0

        -10

        -20
              SWP    500 of    500                                       3DB
        -30   D1 -27 dBm

        -40  2

        -50

        -60
              F1
        -70

          Start  5.11 GHz            20 MHz/            Stop  5.31 GHz
```
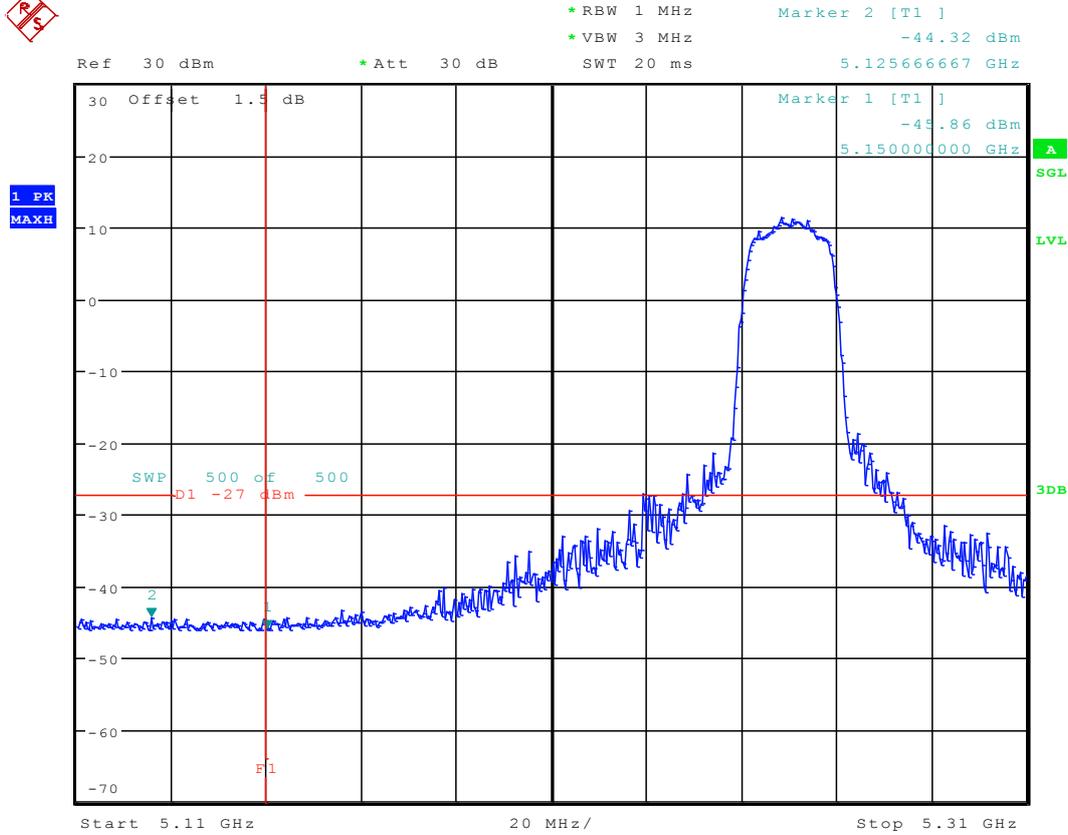
Date: 27.SEP.2016 12:27:40

12.12 11N20_64 Ant 1


```
                                              * RBW  1 MHz        Marker 2 [T1 ]
                                              * VBW  3 MHz                  -32.89 dBm
Ref  30 dBm              * Att  30 dB         SWT 20 ms          5.353666667 GHz

 30  Offset  1.5 dB                           Marker 1 [T1 ]
                                                                -35.84 dBm
 20                                           5.350000000 GHz    A
                                                                 SGL

 10                                                              LVL

  0

-10

-20
         SWP  500 of  500
-30                                                             3DB
         D1

-40

-50

-60

-70
                          F1
Start  5.27 GHz              20 MHz/           Stop  5.47 GHz
```

Date: 27.SEP.2016 12:34:10

12.13 11N20_100 Ant 1


```
                                            * RBW  1 MHz          Marker 2 [T1 ]
                                            * VBW  3 MHz                      -31.29 dBm
            Ref  30 dBm          * Att  30 dB     SWT 20 ms        5.466333333 GHz

            30  Offset  1.5  dB                            Marker 1 [T1 ]
                                                                       -34.97 dBm
                                                              5.470000000 GHz    A
                                                                                SGL

                                                                                LVL


                                                                                3DB



            SWP   500 of   500
            D1 -27 dBm




                            F1

            Start  5.35 GHz              20 MHz/              Stop  5.55 GHz
```

Date: 27.SEP.2016 12:44:10

12.14 11N20_140 Ant 1


```
                                        * RBW  1 MHz      Marker 2 [T1 ]
                                        * VBW  3 MHz                    -30.16 dBm
Ref  30 dBm            * Att  30 dB      SWT 20 ms         5.725333333 GHz
  30  Offset  1.5  dB                                    Marker 1 [T1 ]
                                                                       -32.80 dBm
-20                                                       5.725000000 GHz   A
                                                                            SGL
                                                                            LVL
10
0
-10
-20
           SWP    50 of    500                                              3DB
           D1       7 dBm
-30
-40
-50
-60
                   F1
-70
Start  5.65 GHz              20 MHz/              Stop  5.85 GHz
```
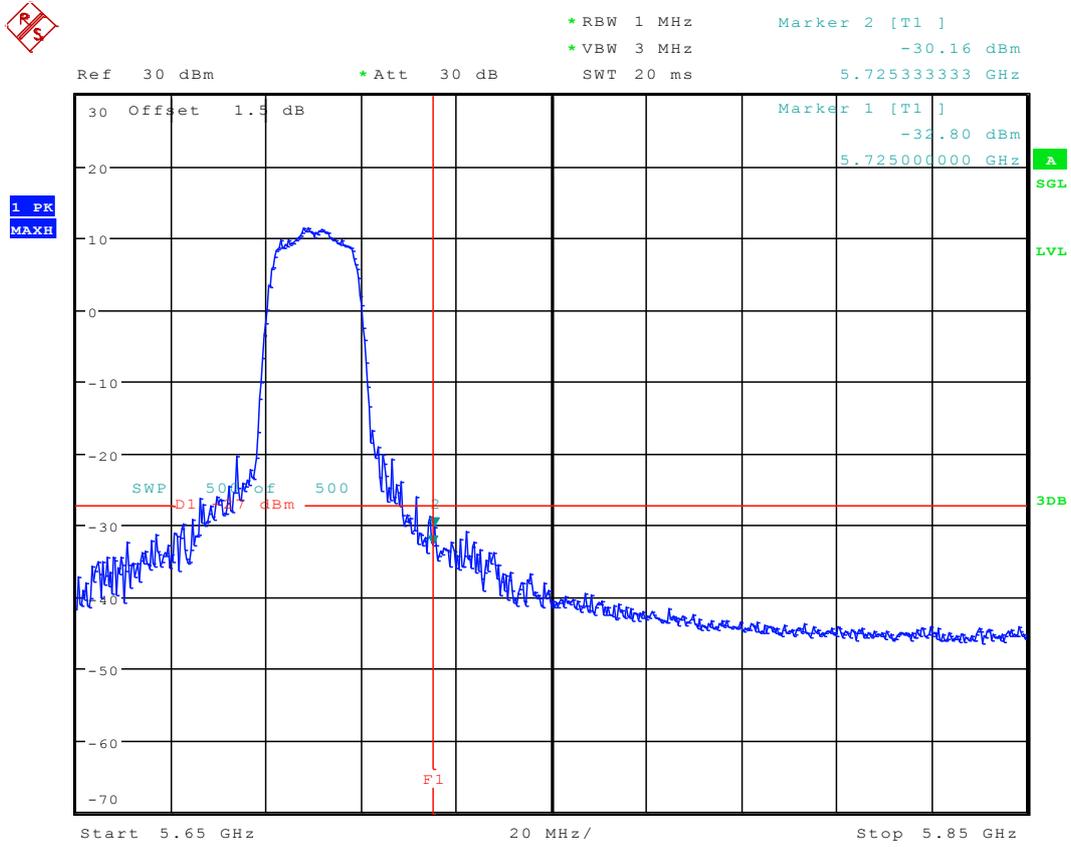
Date: 27.SEP.2016 12:54:33

12.15 11N20_149 Ant 1
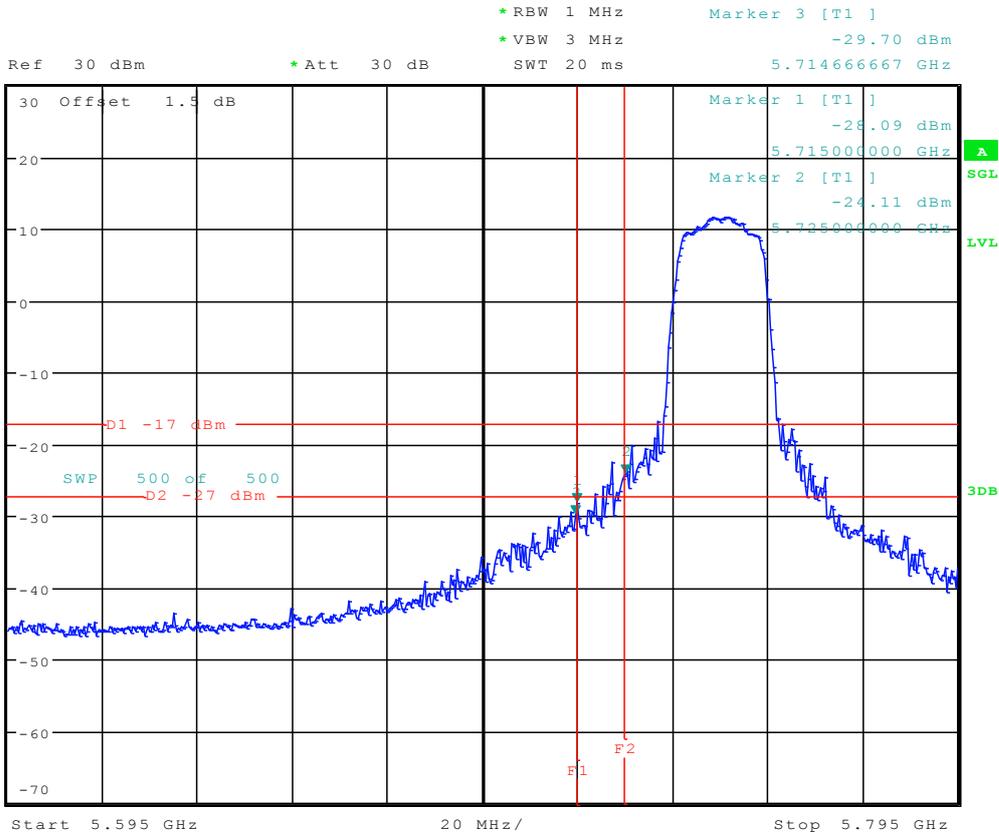
Date: 27.SEP.2016 13:03:16

12.16 11N20_165 Ant 1
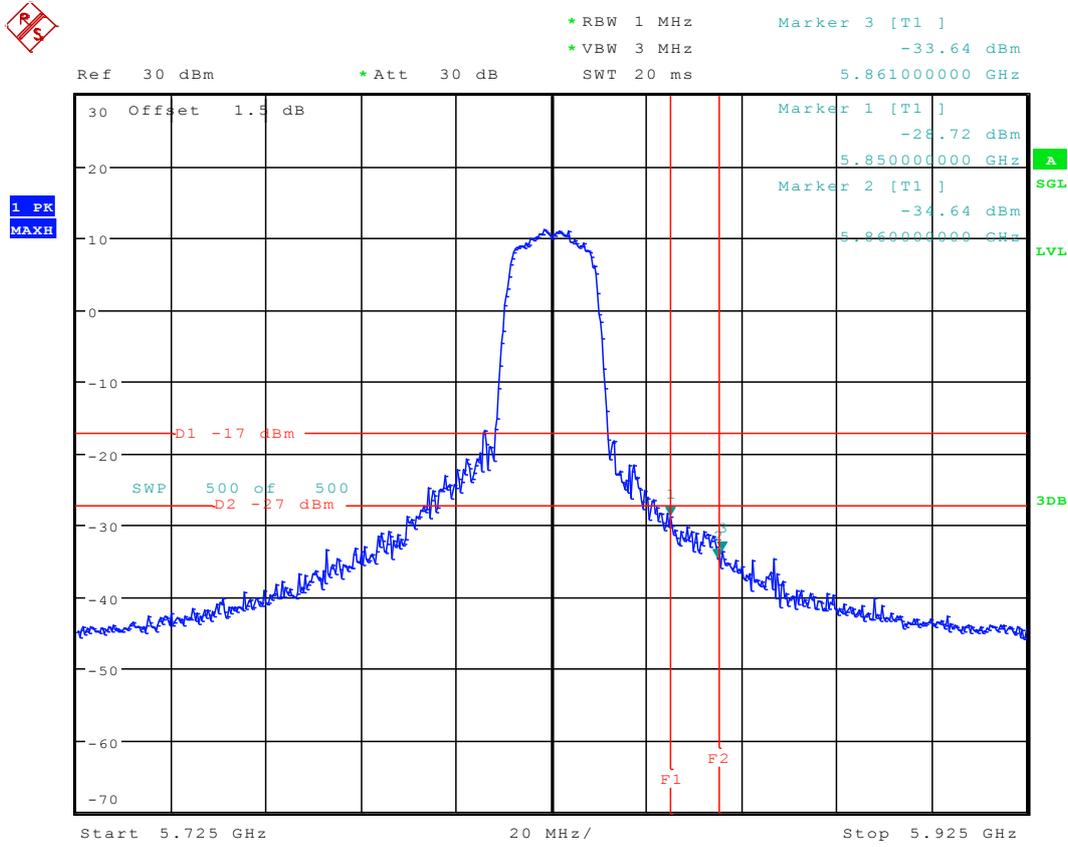
Date: 27.SEP.2016 13:09:17

12.17 11N40_38 Ant 1
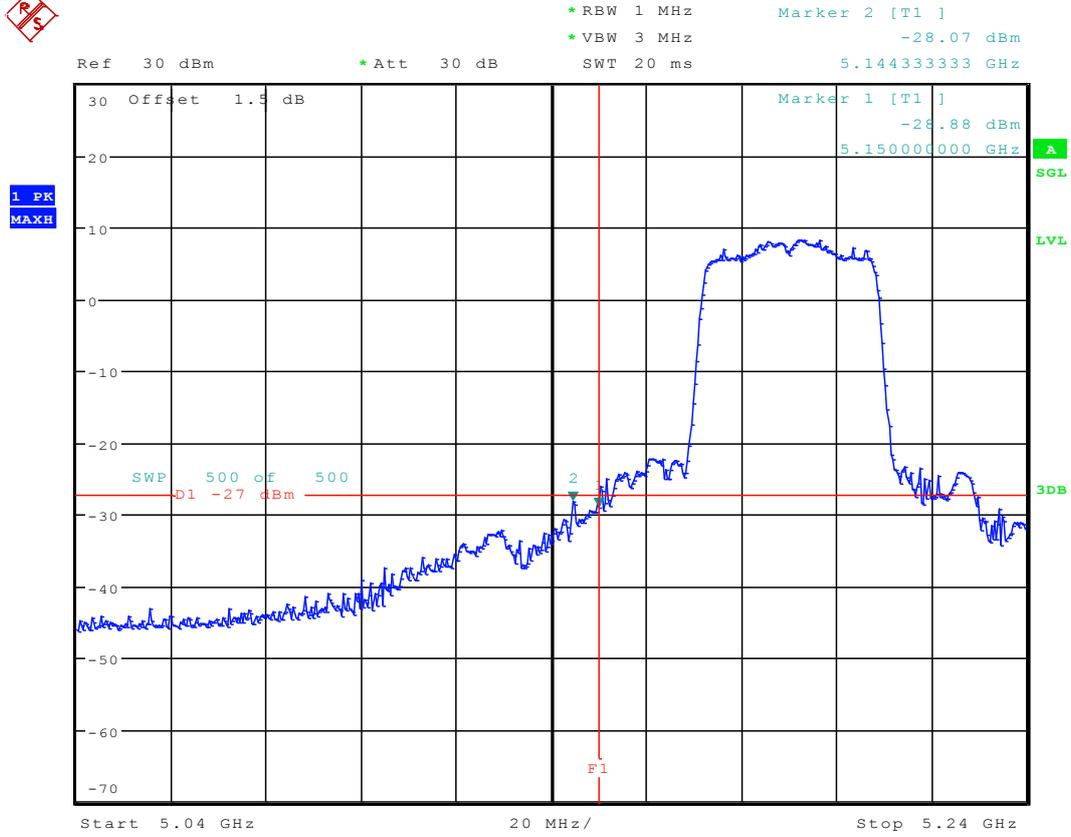
Date: 27.SEP.2016 13:29:26

12.18 11N40_46 Ant 1
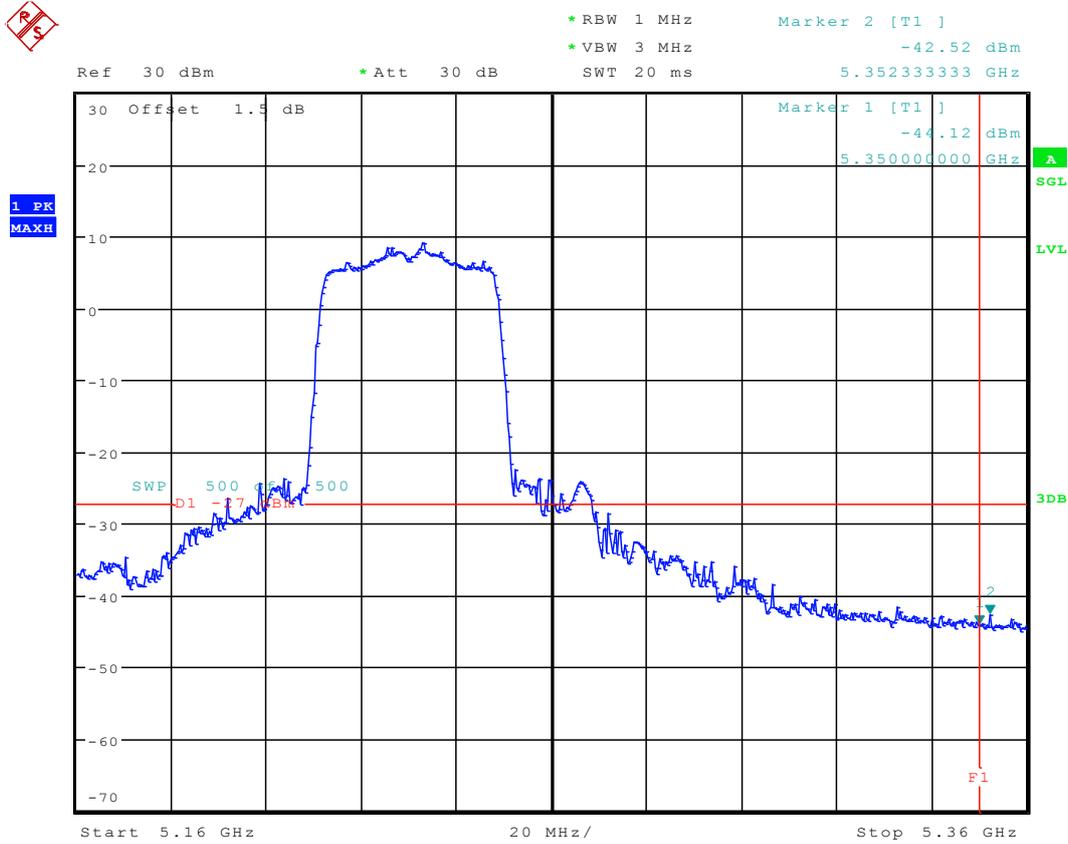
Date: 27.SEP.2016 13:46:10
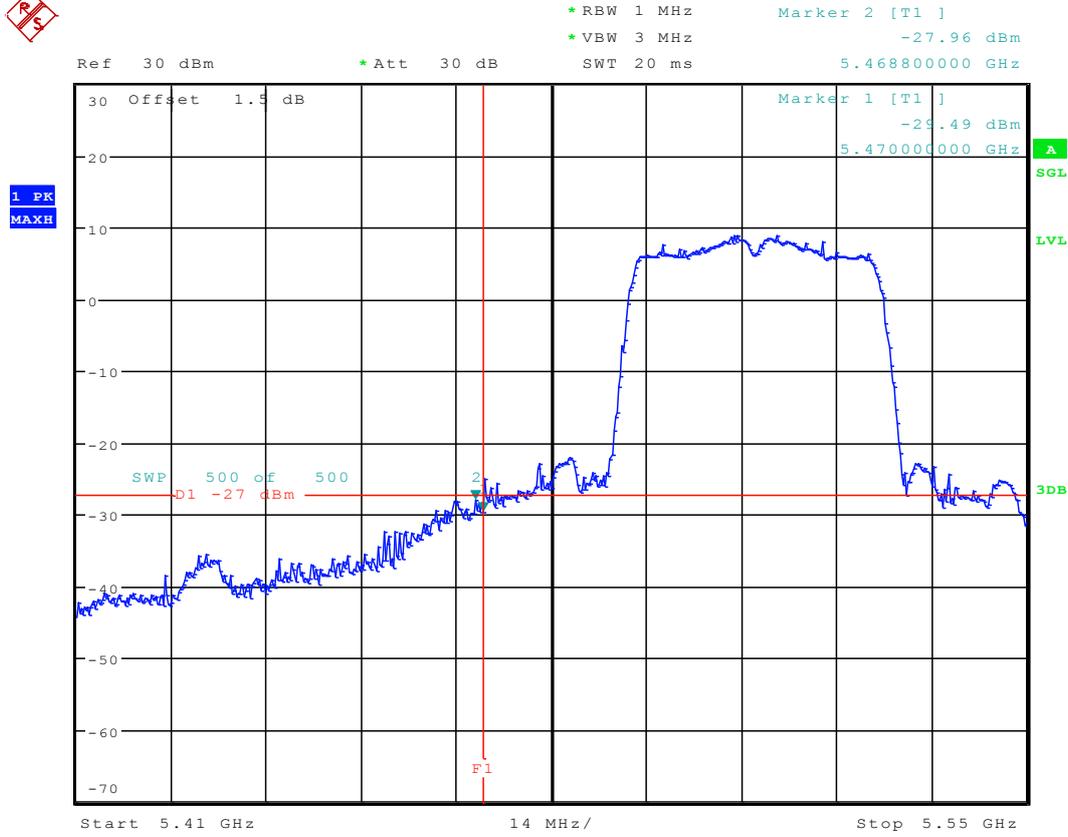
12.19 11N40_54 Ant 1
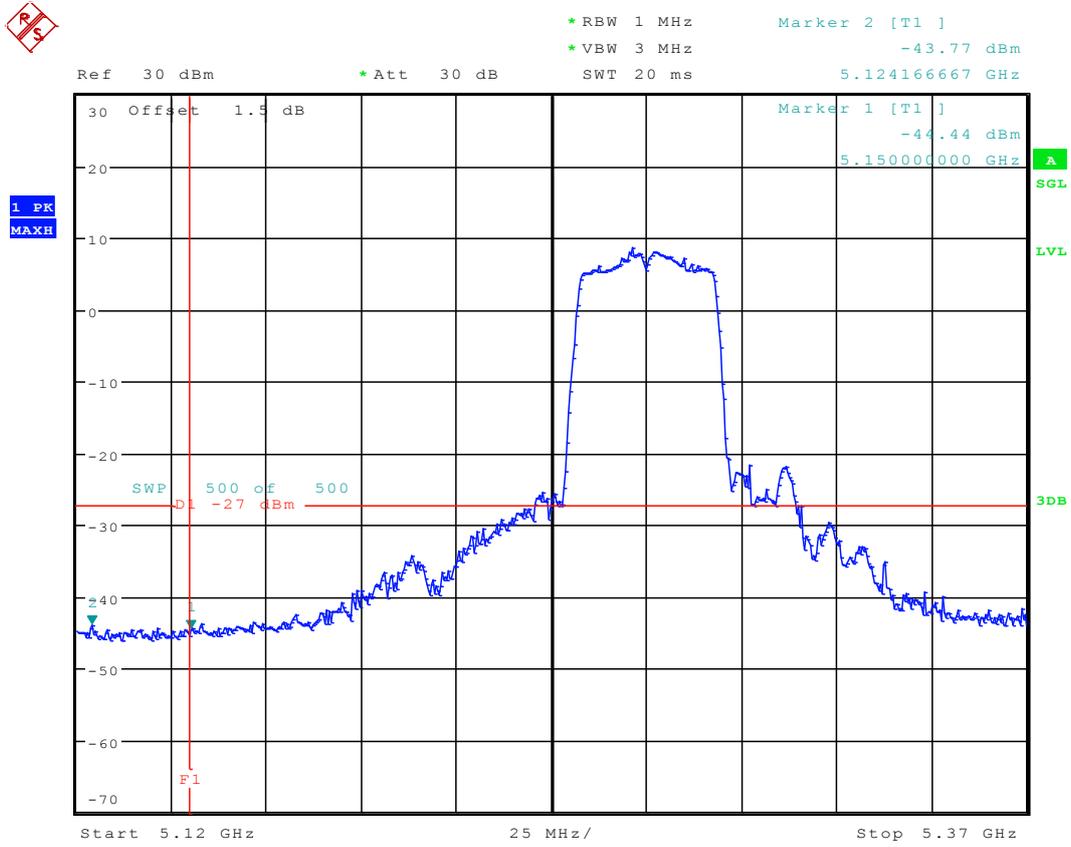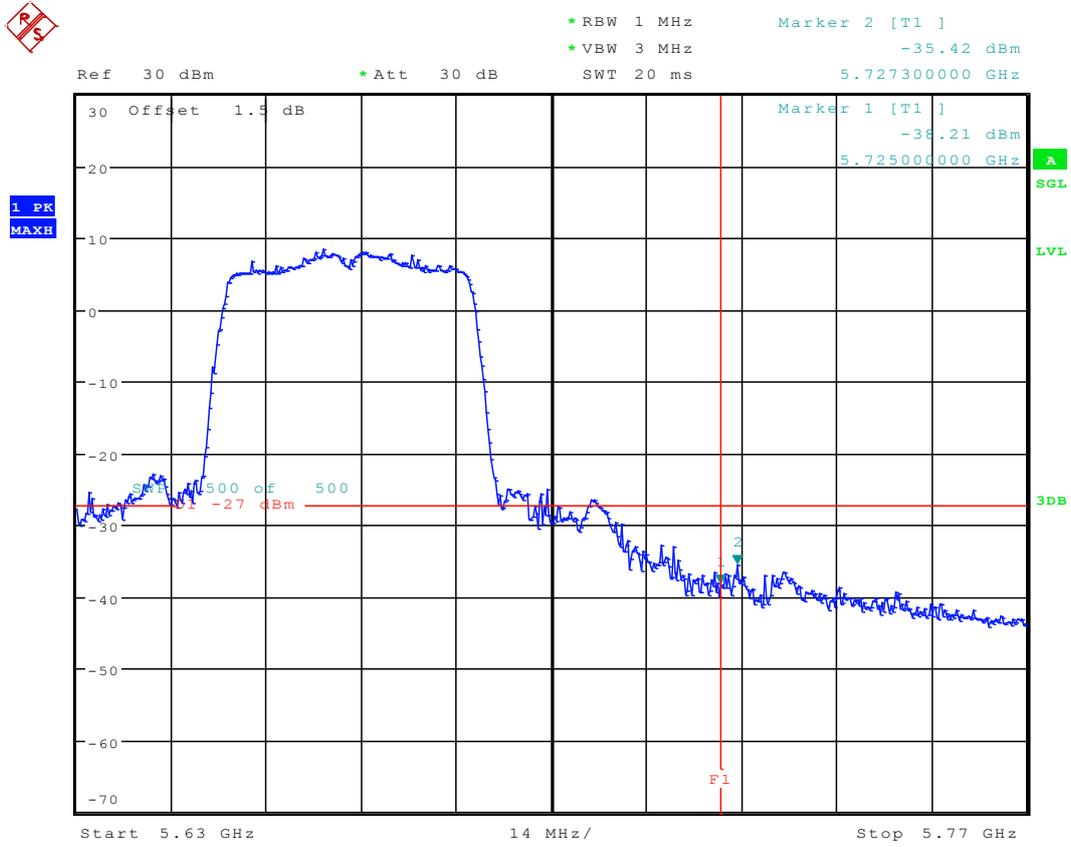

Date: 27.SEP.2016 13:51:12

12.20 11N40_62 Ant 1


```
                                    *RBW  1 MHz      Marker 2 [T1 ]
                                    *VBW  3 MHz              -27.95 dBm
                        Ref  30 dBm       *Att  30 dB   SWT  20 ms      5.351000000 GHz

                    30  Offset  1.5 dB                   Marker 1 [T1 ]
                                                                -30.40 dBm
                -20                                          5.350000000 GHz    A
                                                                                SGL
            1 PK
            MAXH    -10                                                          LVL



                  0


                -10


                -20
                        SWP  300 of   500                                        3DB
                        CF -27 dBm                        2

                -40


                -50


                -60
                                                F1
                -70

                Start  5.26 GHz          20 MHz/          Stop  5.46 GHz
```
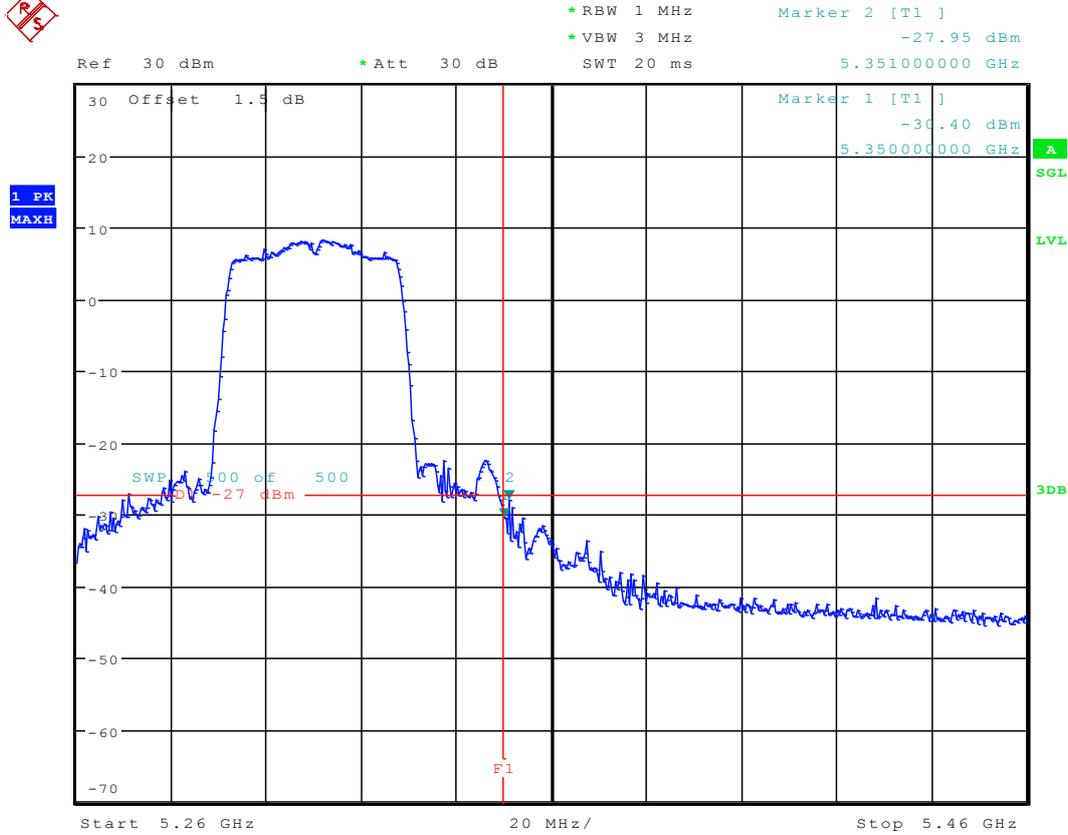
Date: 27.SEP.2016 15:30:28

12.21 11N40_102 Ant 1

Date: 27.SEP.2016 15:37:44

12.22 11N40_134 Ant 1

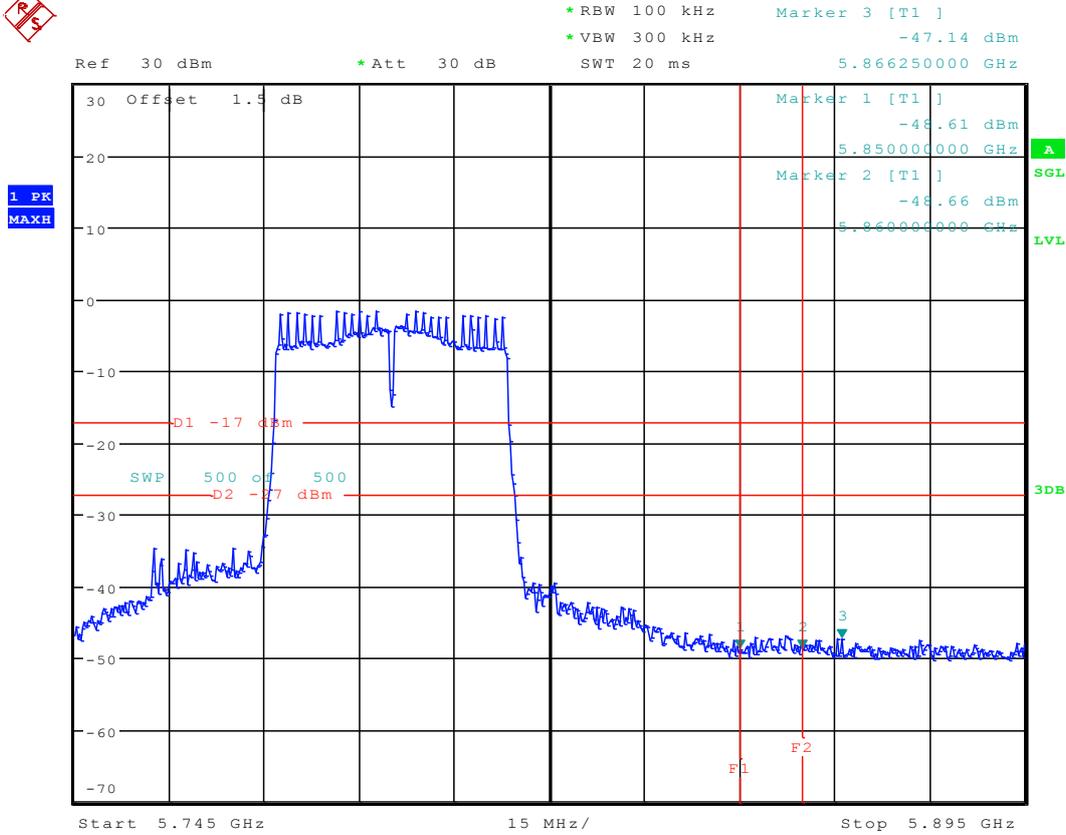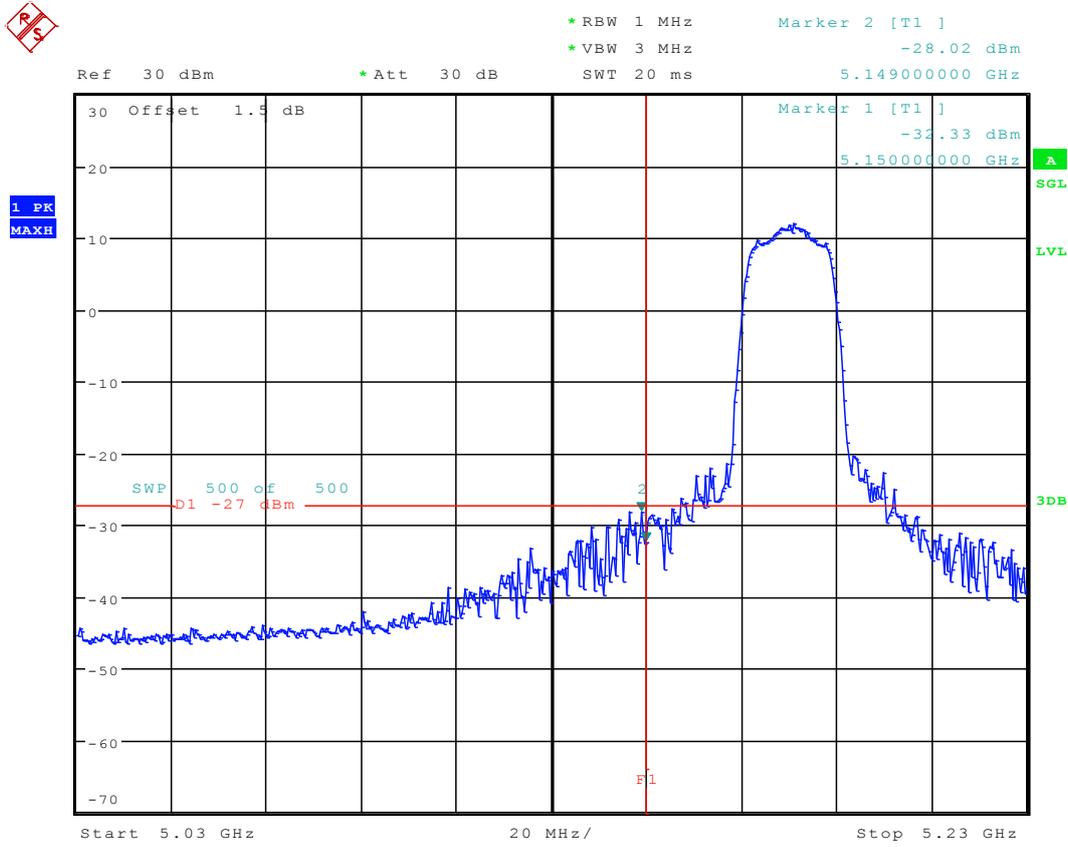Date: 27.SEP.2016 15:44:16

12.23 11N40_151 Ant 1


```
                                  * RBW  1 MHz      Marker 3 [T1 ]
                                  * VBW  3 MHz                  -28.35 dBm
  Ref  30 dBm          * Att  30 dB    SWT 20 ms     5.714666667 GHz

  30  Offset  1.5 dB                   Marker 1 [T1 ]
                                                    -29.00 dBm
    20                                   5.715000000 GHz      A
                                        Marker 2 [T1 ]        SGL
    10                                               -24.95 dBm
                                         5.725000000 GHz      LVL

     0

  -10

           D1 -17 dBm
  -20                                                          3DB
        SWP  500 of  500
           D2 -27 dBm
  -30

  -40

  -50

  -60                         F2

  -70                       F1

  Start  5.605 GHz        20 MHz/         Stop  5.805 GHz
```

1 PK
MAXH
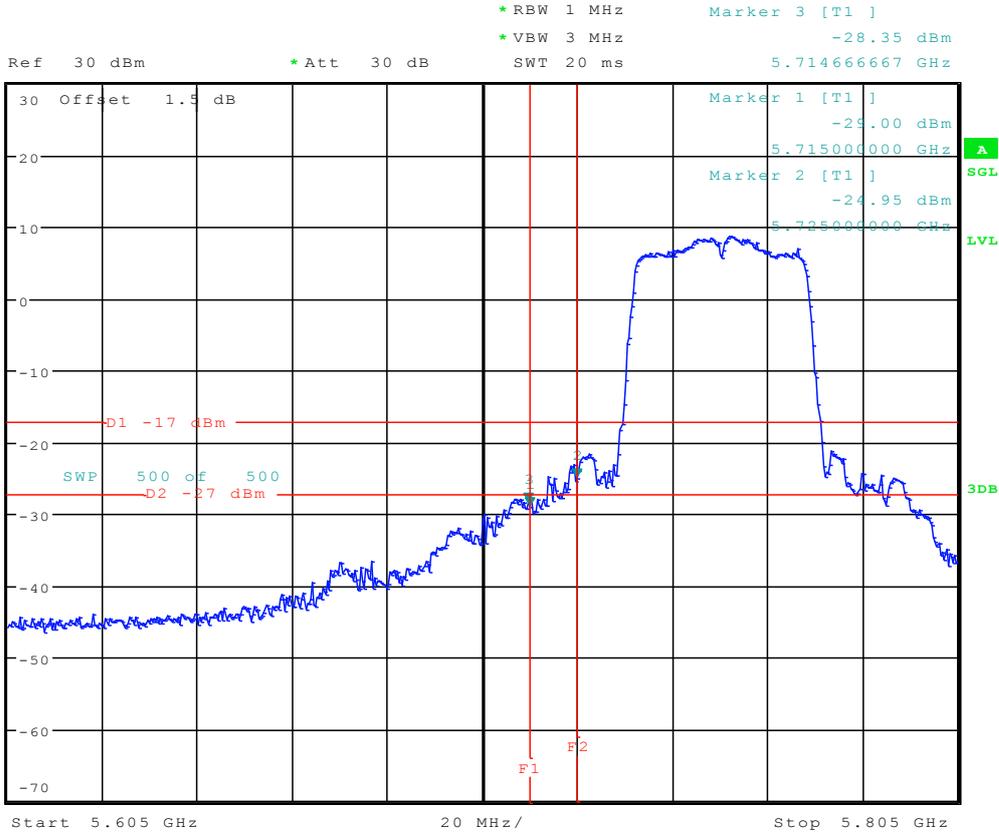
Date: 27.SEP.2016 16:08:57

12.24 11N40_159 Ant 1


```
                                          * RBW  100 kHz      Marker 3 [T1 ]
                                          * VBW  300 kHz              -47.14 dBm
         Ref  30 dBm          * Att  30 dB    SWT 20 ms      5.866250000 GHz

          30  Offset  1.5 dB                        Marker 1 [T1 ]
                                                              -48.61 dBm          A
        -20                                             5.850000000 GHz          SGL
                                                    Marker 2 [T1 ]
   1 PK  -10                                                  -48.66 dBm          LVL
   MAXH                                                 5.860000000 GHz

          -0

         -10
                                                                                  3DB
          D1 -17 dBm

         -20
          SWP   500 of   500
          D2 -27 dBm

         -30

         -40

         -50                                            1      2    3
                                                                                  F2
         -60                                                                      F1

         -70

        Start 5.745 GHz              15 MHz/           Stop  5.895 GHz
```

Date: 27.SEP.2016 16:14:28

12.25 11AC20_36 Ant 1

Date: 27.SEP.2016 16:23:45

12.26 11AC20_48 Ant 1
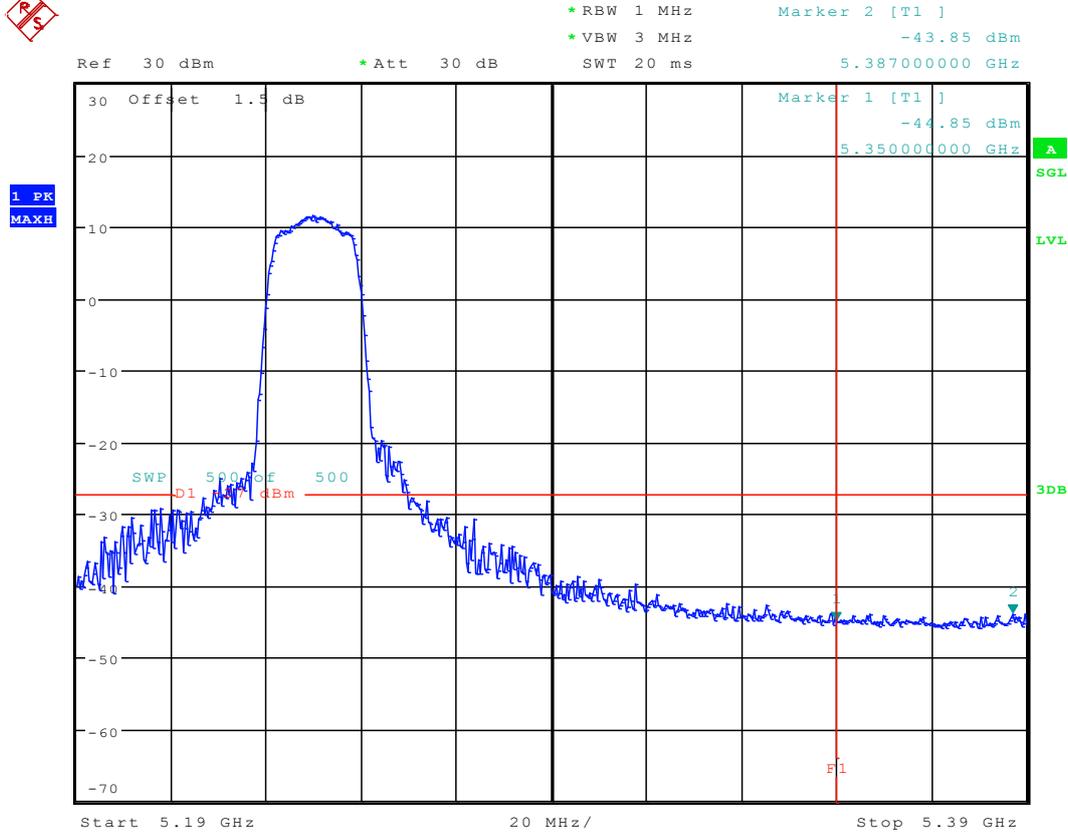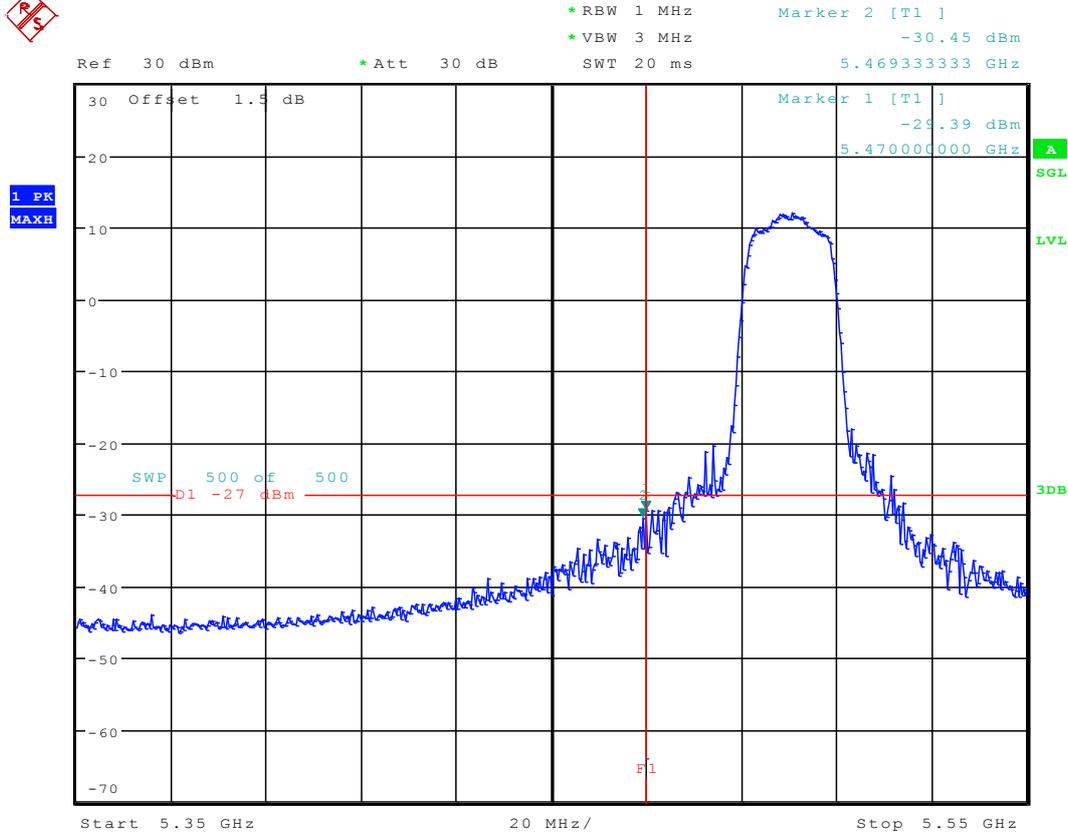

Date: 27.SEP.2016 16:30:38

12.27 11AC20_52 Ant 1
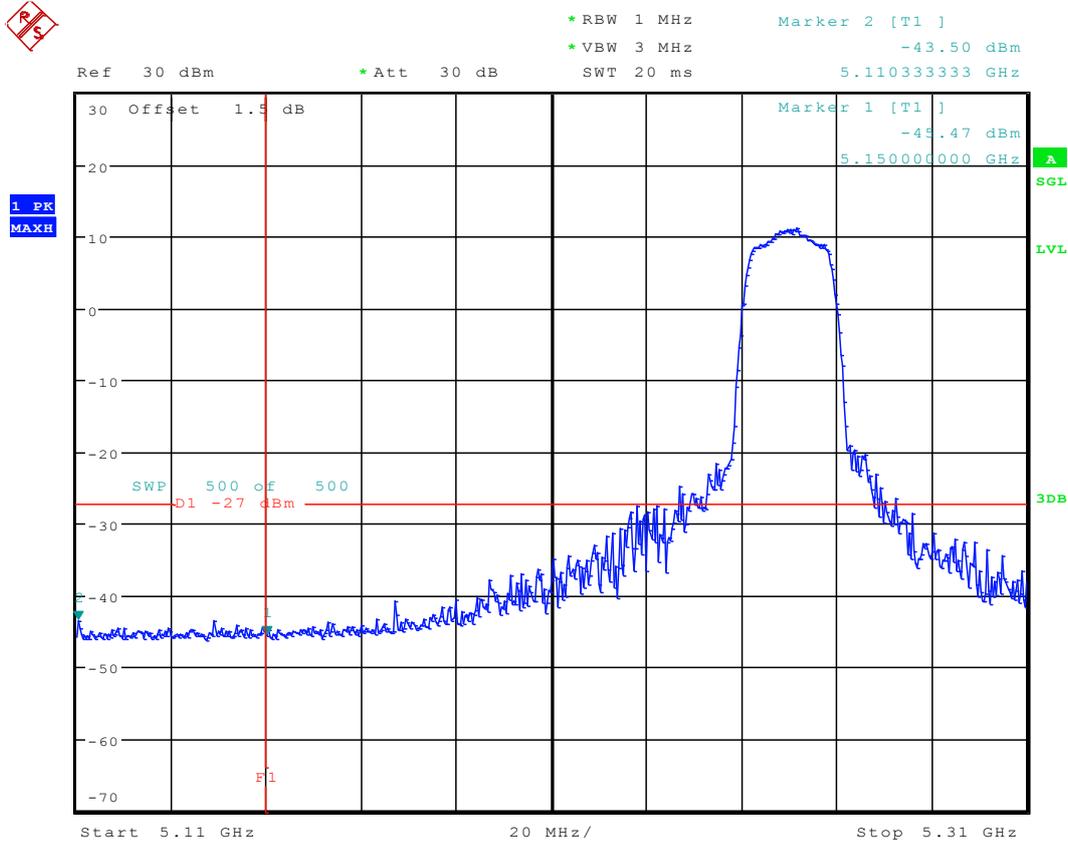
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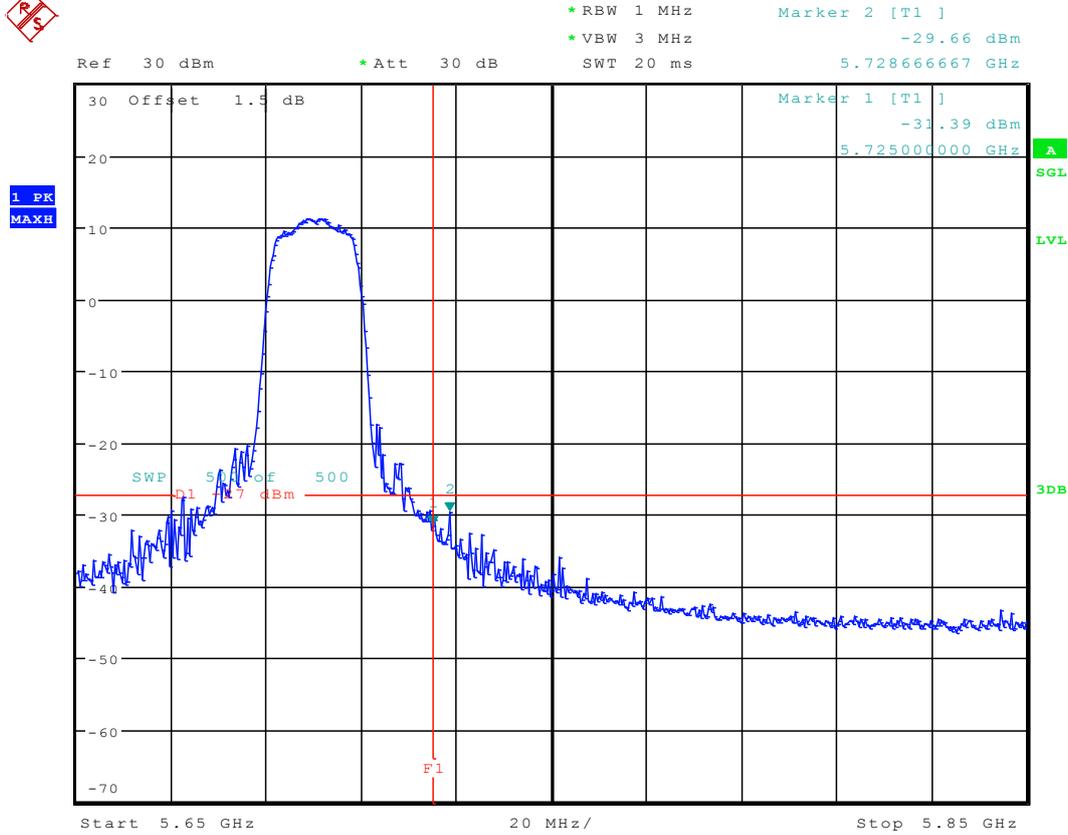
12.28 11AC20_64 Ant 1
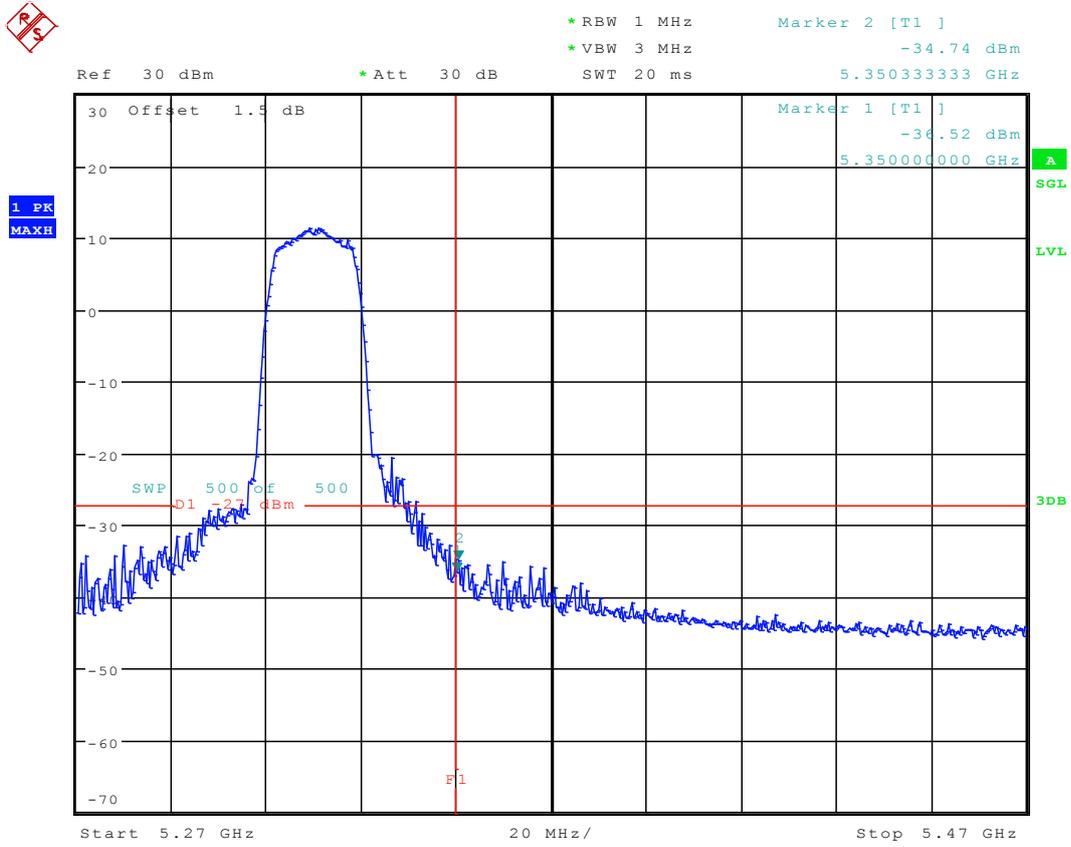
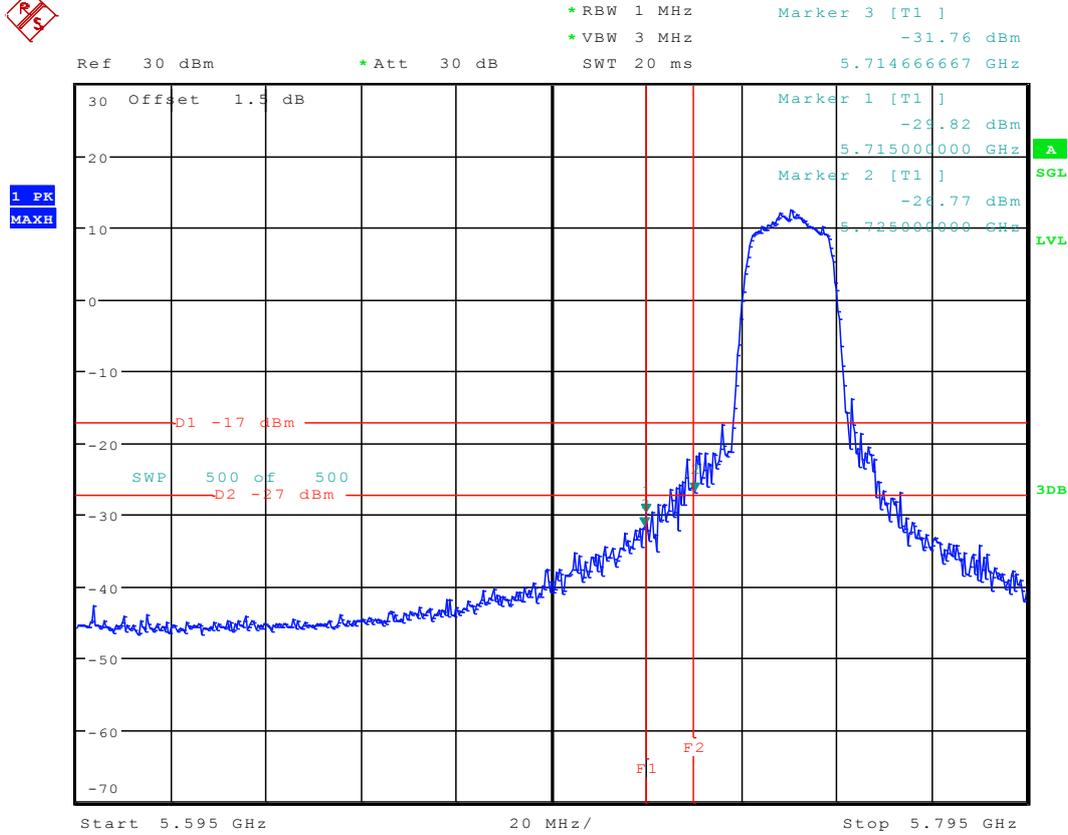Date: 27.SEP.2016 16:41:41

12.29 11AC20_100 Ant 1


```
                                      * RBW  1 MHz      Marker 2 [T1 ]
                                      * VBW  3 MHz              -30.45 dBm
           Ref  30 dBm      * Att  30 dB     SWT  20 ms    5.469333333 GHz

           30   Offset   1.5  dB                 Marker 1 [T1 ]
                                                         -29.39 dBm
          -20                                      5.470000000 GHz    A
                                                                      SGL

  1 PK
  MAXH    -10                                                         LVL

           0

          -10

          -20

                SWP    500 of    500                                  3DB
          -30   D1 -27 dBm

          -40

          -50

          -60

          -70
          Start  5.35 GHz           20 MHz/           Stop  5.55 GHz
```

Date: 27.SEP.2016 16:49:48

12.30 11AC20_140 Ant 1


```
                                          * RBW  1 MHz        Marker 2 [T1 ]
                                          * VBW  3 MHz              -29.66 dBm
     Ref  30 dBm          * Att  30 dB     SWT 20 ms         5.728666667 GHz

     30  Offset  1.5  dB                              Marker 1 [T1 ]
                                                            -31.39 dBm
    -20                                              5.725000000 GHz   A
                                                                       SGL
  1 PK
  MAXH                                                                  LVL
    -10

      0

    -10

    -20

      SWP    5   of    500                                              3DB
    -30    D1   17 dBm                        2

    -40

    -50

    -60
                                F1
    -70

     Start  5.65 GHz              20 MHz/            Stop  5.85 GHz
```

Date: 27.SEP.2016 16:55:08

12.31 11AC20_149 Ant 1

Date: 27.SEP.2016 17:14:16

12.32 11AC20_165 Ant 1
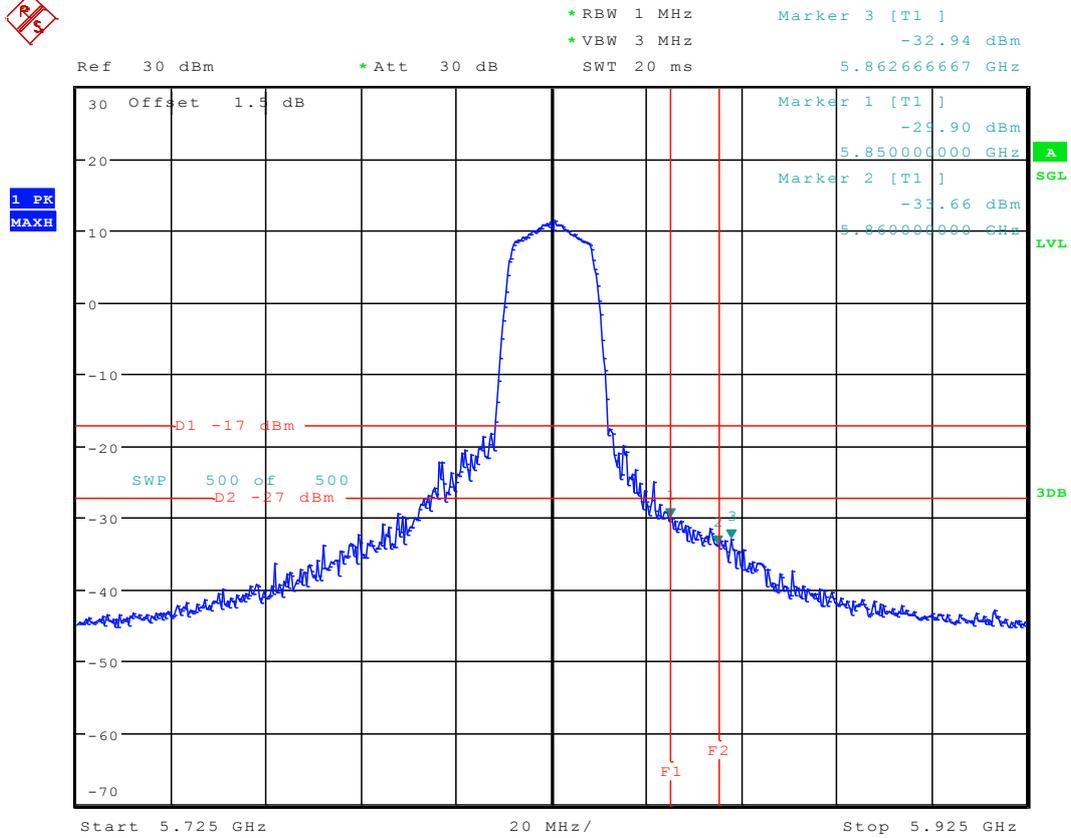
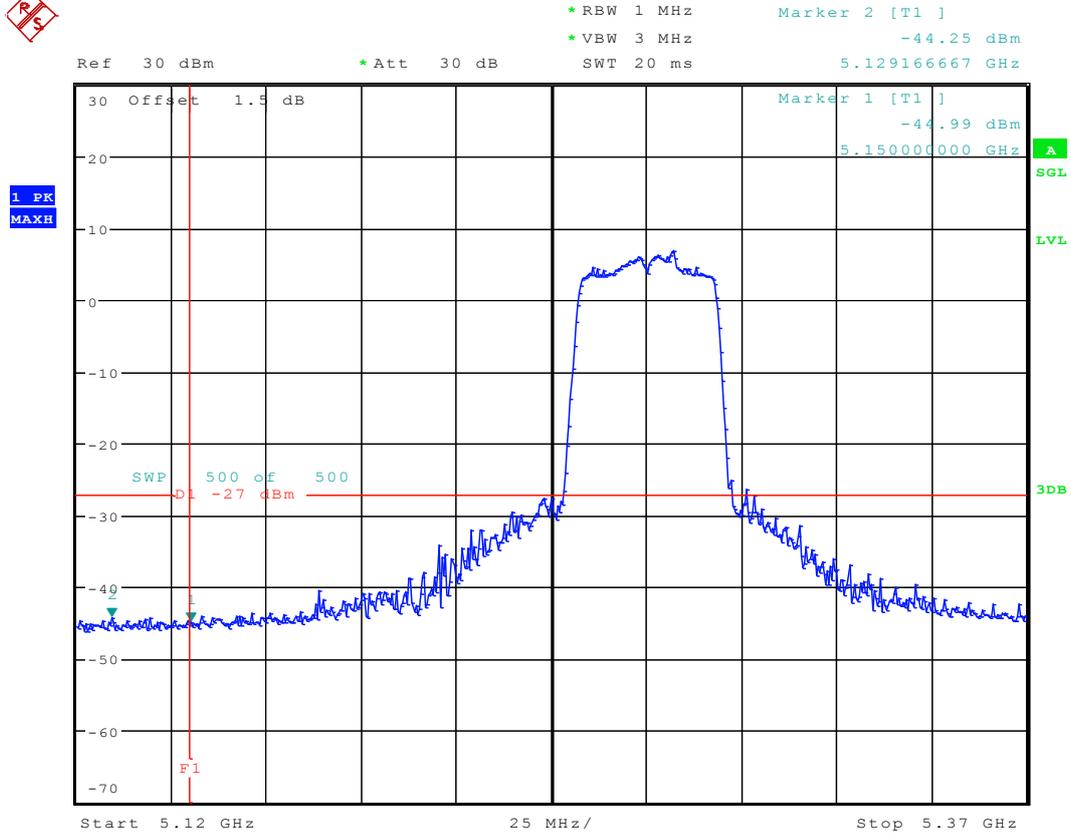Date: 27.SEP.2016 19:37:36

12.33 11AC40_38 Ant 1


```
                                        *RBW  1 MHz       Marker 2 [T1 ]
                                        *VBW  3 MHz              -30.83 dBm
        Ref  30 dBm          *Att  30 dB    SWT 20 ms     5.147666667 GHz

        30  Offset  1.5 dB                         Marker 1 [T1 ]
                                                          -32.09 dBm
      -20                                           5.150000000 GHz   A
                                                                      SGL
1 PK
MAXH  -10                                                             LVL

        0

      -10

      -20
        SWP    500 of    500                                          3DB
      -30 D1 -27 dBm                          2

      -40

      -50

      -60
                                      F1
      -70

     Start 5.04 GHz              20 MHz/           Stop 5.24 GHz
```
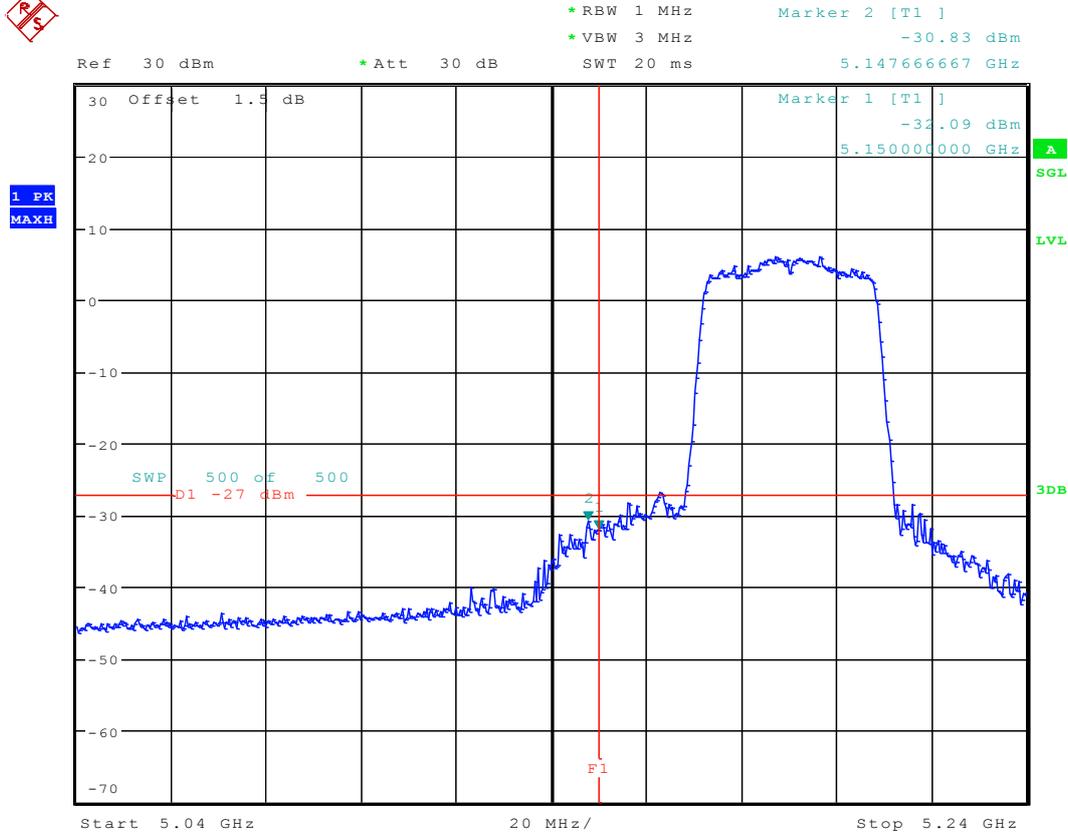
Date: 15.AUG.2016 13:29:34

12.34 11AC40_46 Ant 1


```
* RBW 1 MHz          Marker 2 [T1 ]
* VBW 3 MHz                    -43.92 dBm
Ref  30 dBm    * Att  30 dB    SWT 20 ms      5.353333333 GHz
30  Offset  1.5  dB                Marker 1 [T1 ]
                                              -45.17 dBm
                                        5.350000000 GHz
```
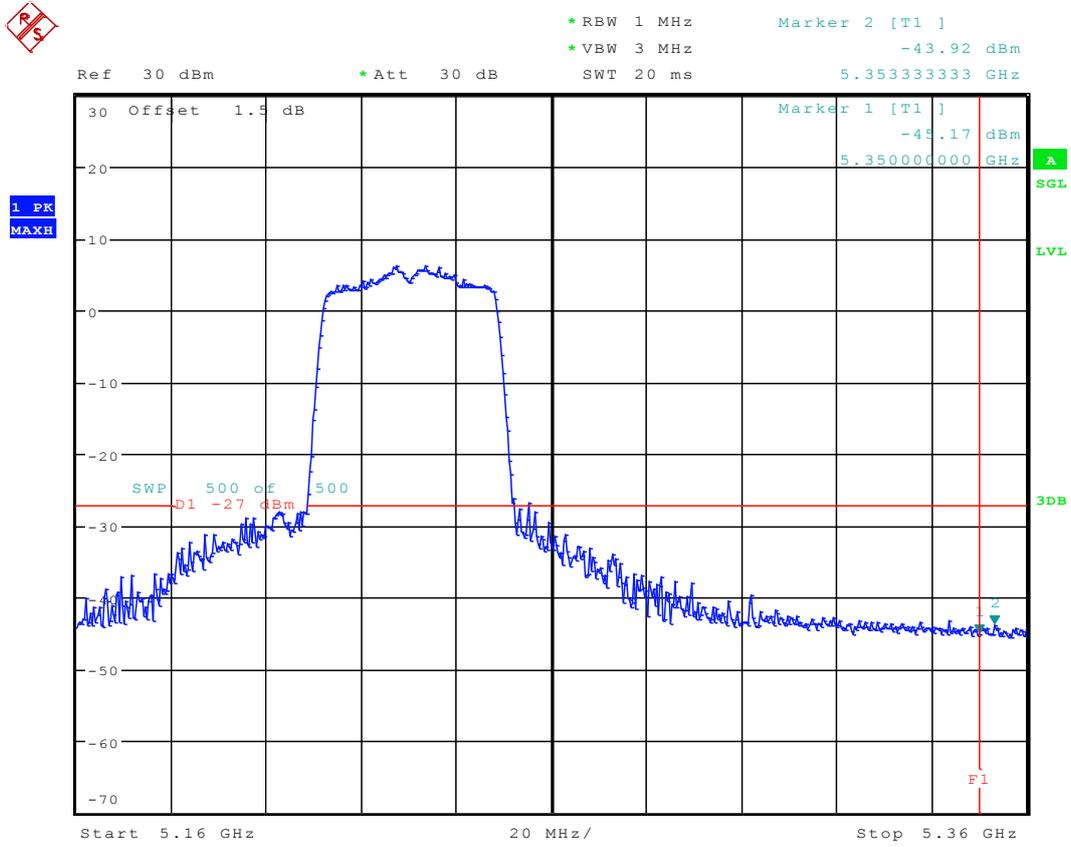
Date: 15.AUG.2016 13:32:45

12.35 11AC40_54 Ant 1

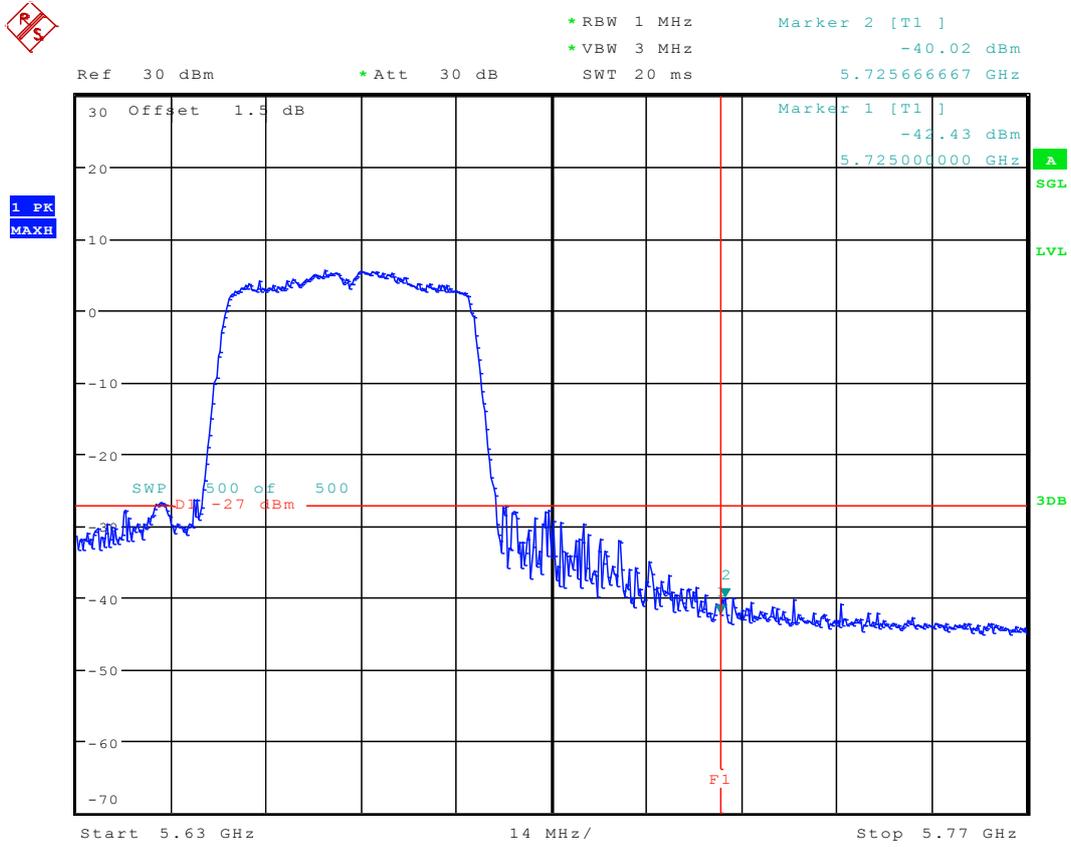Date: 15.AUG.2016 13:36:17

12.36 11AC40_62 Ant 1
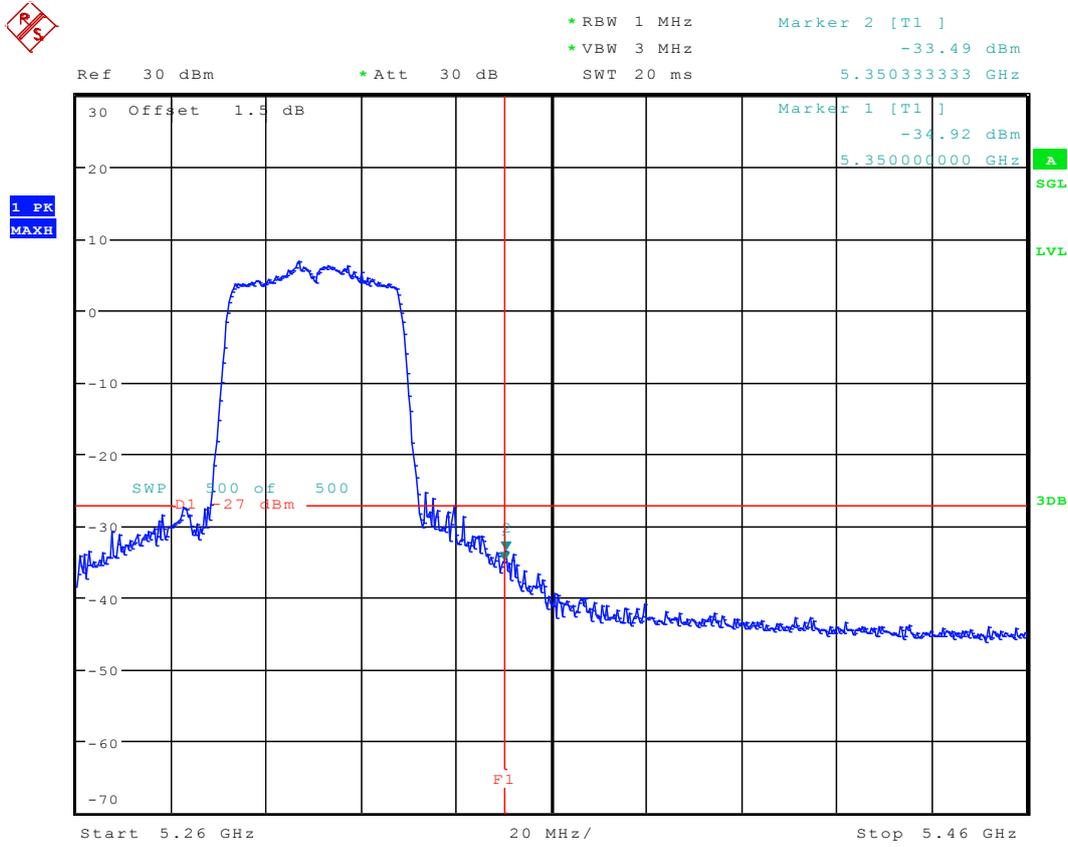
Date: 15.AUG.2016 13:41:25

12.37 11AC40_102 Ant 1


```
                                          * RBW  1 MHz      Marker 2 [T1 ]
                                          * VBW  3 MHz                -29.69 dBm
Ref  30 dBm            * Att  30 dB      SWT  20 ms         5.466466667 GHz

30  Offset  1.5  dB                      Marker 1 [T1 ]
                                                           -30.54 dBm
                                                           5.470000000 GHz    A
                                                                              SGL

1 PK
MAXH                                                                          LVL


      SWP   500 of   500
      D1 -27 dBm                                                              3DB



                        F1

Start  5.41 GHz              14 MHz/              Stop  5.55 GHz
```
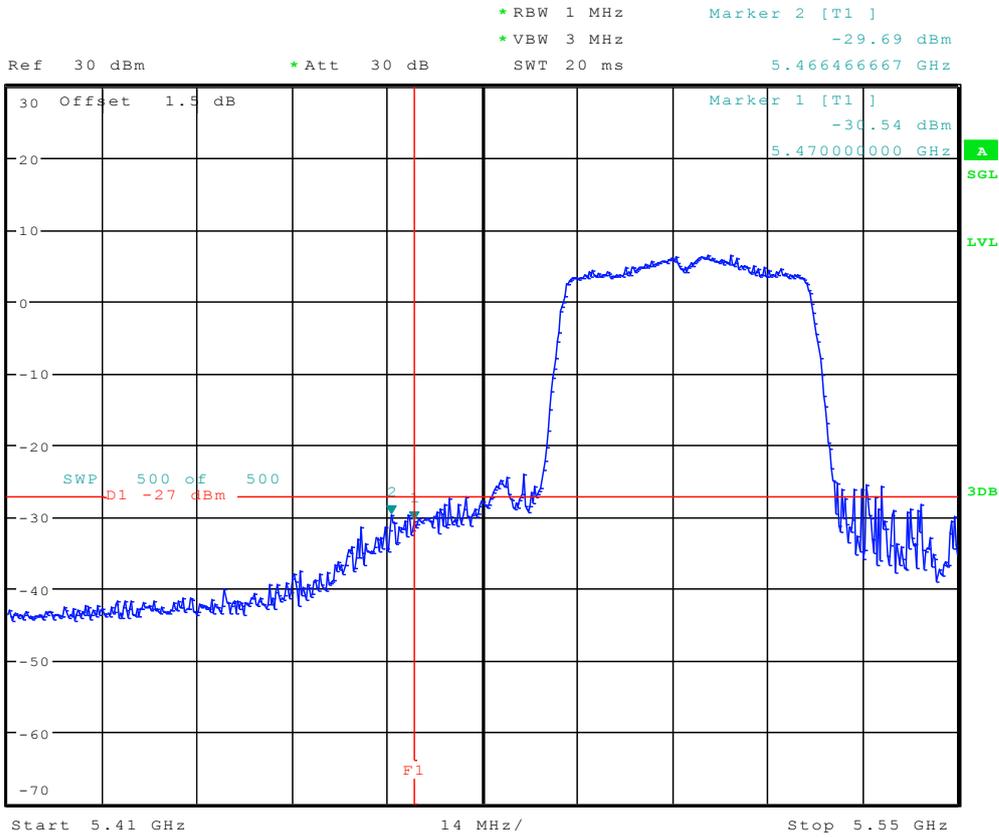
Date: 15.AUG.2016 13:23:31

12.38 11AC40_134 Ant 1

Date: 15.AUG.2016 13:26:00

12.39 11AC40_151 Ant 1


```
* RBW  1 MHz          Marker 3 [T1 ]
* VBW  3 MHz                -30.98 dBm
Ref  30 dBm      * Att  30 dB    SWT 20 ms      5.714666667 GHz

30   Offset  1.5 dB                 Marker 1 [T1 ]
                                         -30.50 dBm
 20                                   5.715000000 GHz     A
1 PK                                 Marker 2 [T1 ]       SGL
MAXH                                     -29.40 dBm
 10                                   5.725000000 GHz     LVL

  0

-10

-20   D1 -17 dBm

      SWP   500 of   500
-30   D2 -27 dBm                                          3DB

-40

-50

-60                          F2
                          F1
-70

Start 5.605 GHz          20 MHz/          Stop 5.805 GHz
```
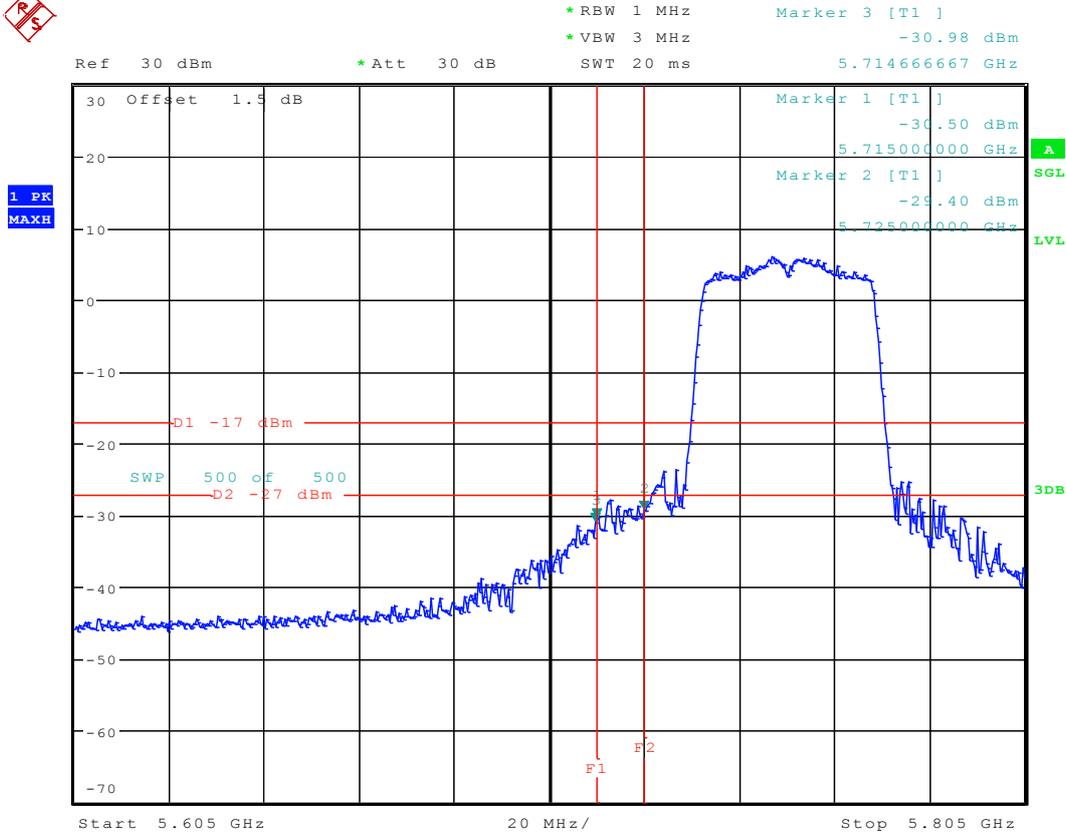
Date: 15.AUG.2016 13:16:14

12.40 11AC40_159 Ant 1
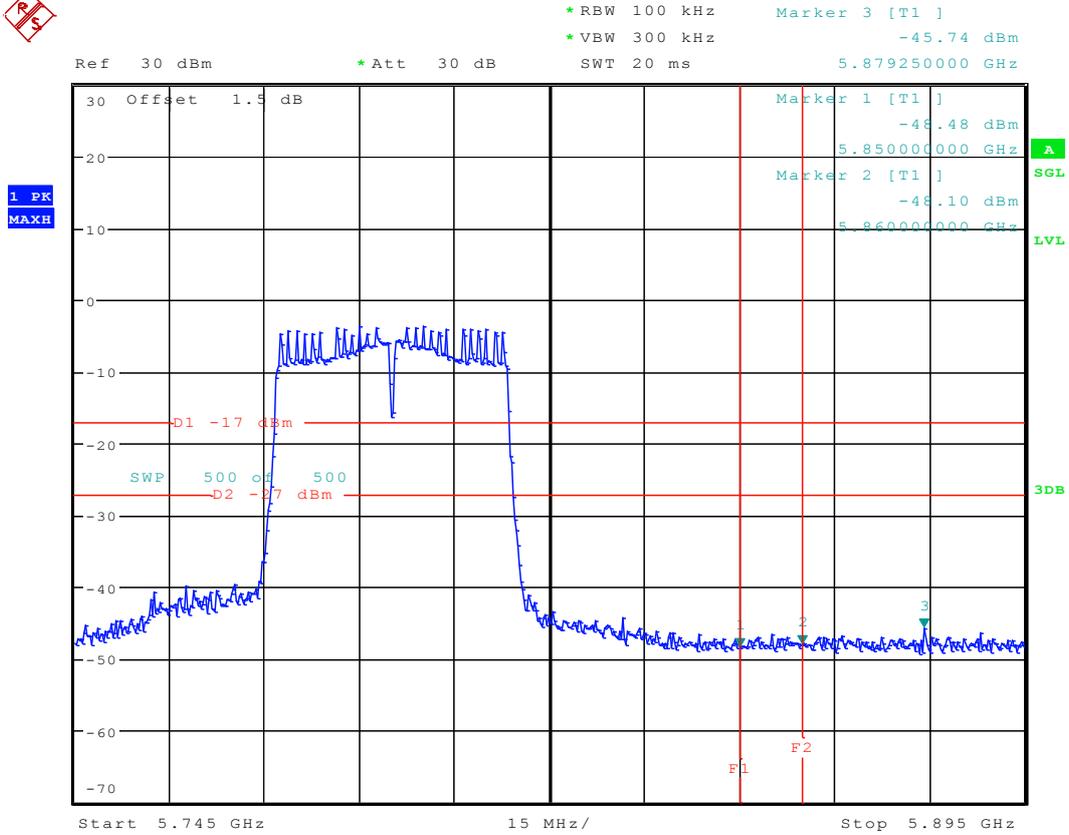
Date: 15.AUG.2016 13:19:30

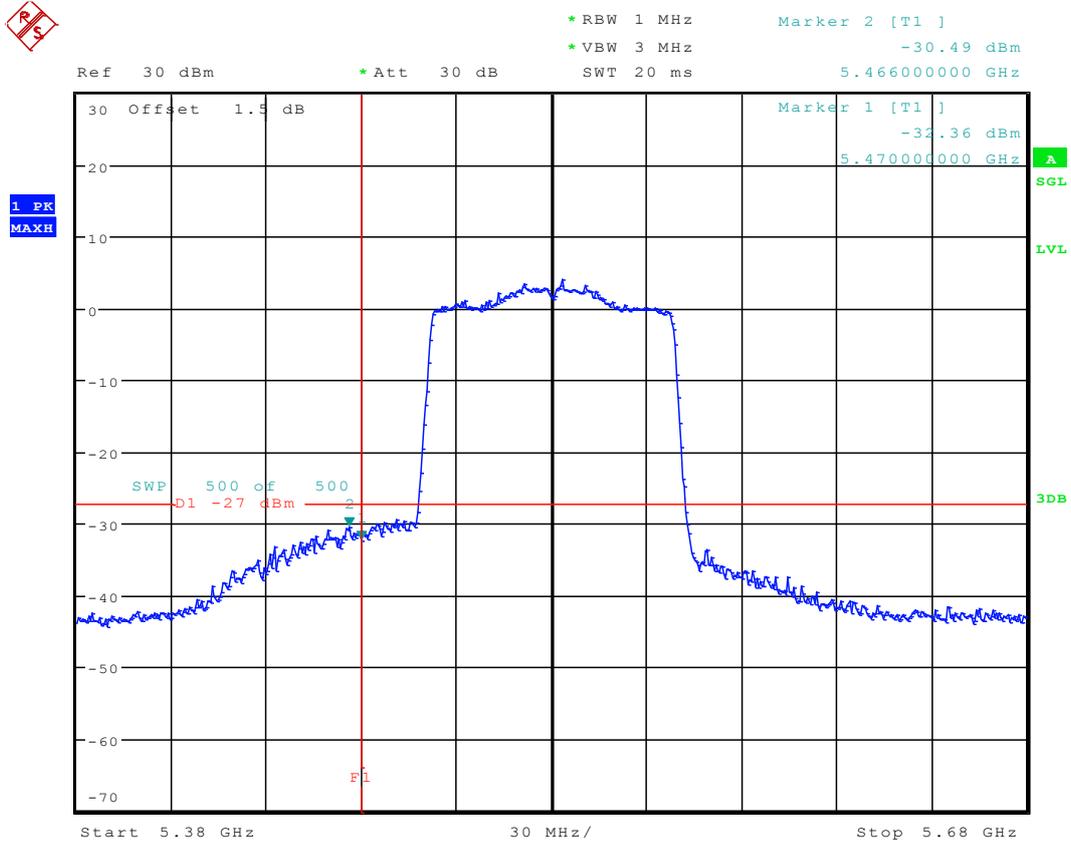## 12.41 11AC80_42 Ant 1
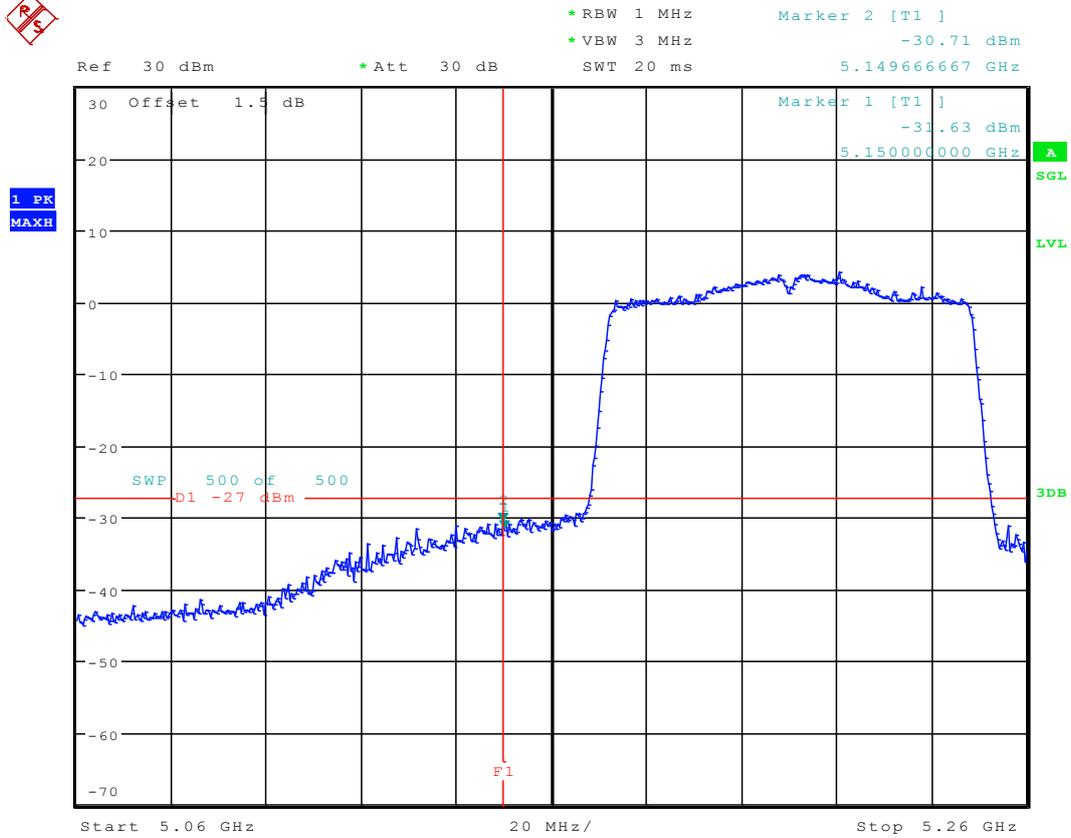
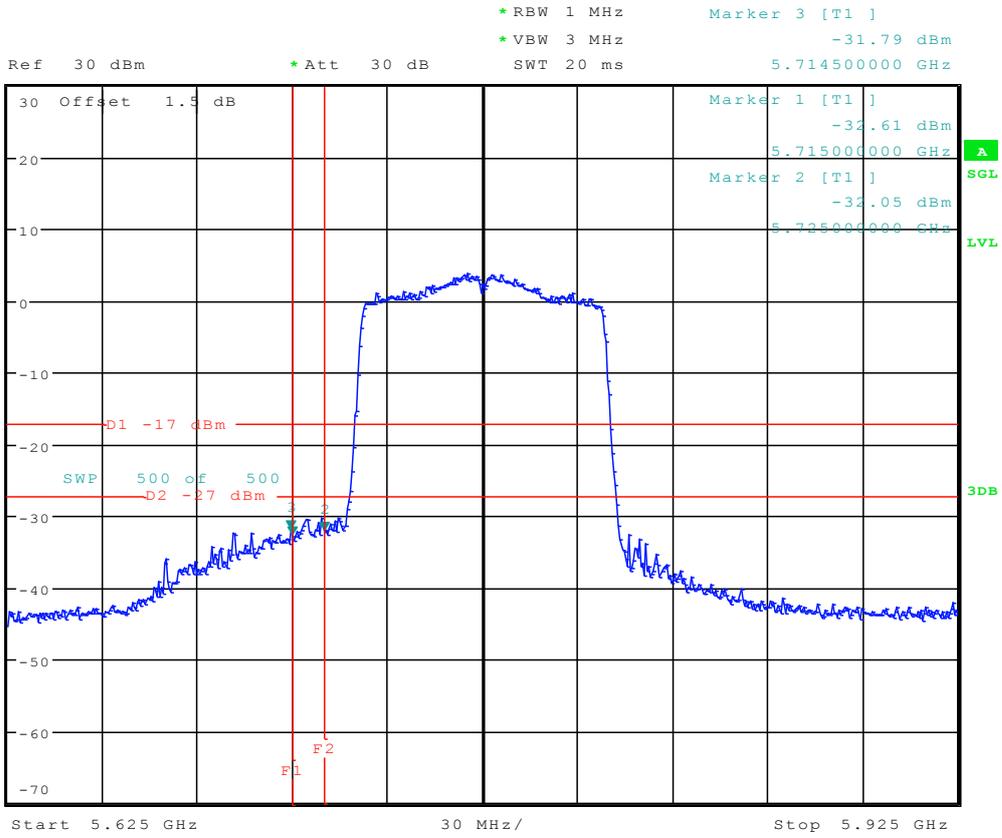Date: 27.SEP.2016 21:36:45

12.42 11AC80_58 Ant 1
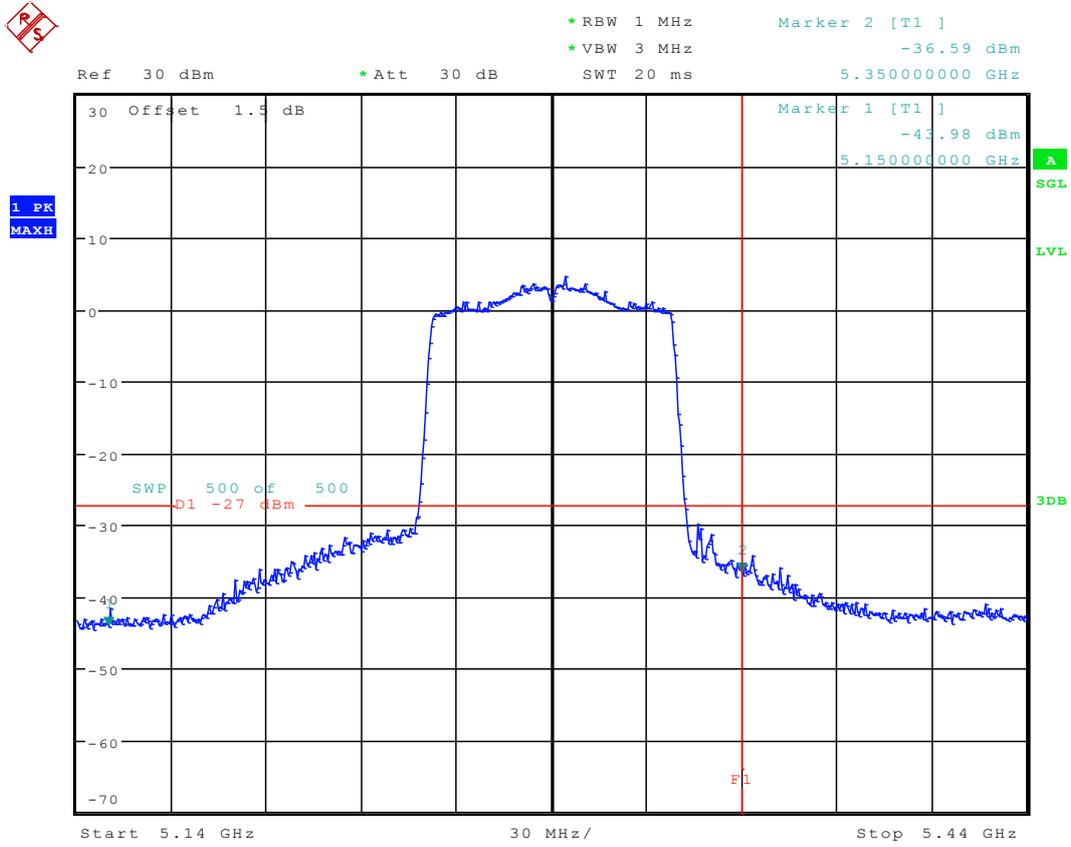
Date: 27.SEP.2016 21:44:56

12.43 11AC80_106 Ant 1

Date: 27.SEP.2016 21:50:01

12.44 11AC80_155 Ant 1

Marker 3 [T1] -31.79 dBm 5.714500000 GHz
Marker 1 [T1] -32.61 dBm 5.715000000 GHz
Marker 2 [T1] -32.05 dBm 5.725000000 GHz

* RBW 1 MHz
* VBW 3 MHz
SWT 20 ms

Ref 30 dBm   * Att 30 dB

30 Offset 1.5 dB

D1 -17 dBm
SWP 500 of 500
D2 -27 dBm

Start 5.625 GHz   30 MHz/   Stop 5.925 GHz

Date: 27.SEP.2016 22:00:50

Appendix G: Frequencies Stability

Frequency Error vs. Voltage:

Test Conditions	Measured Fequency （MHz）
	5180
V nom(V)	5180.0064
V max(V)	5180.0023
V min(V)	5180.0056
Max. Deviation Frequency	0.0064
Max. Frequency Error (ppm)	1.2

Frequency Error vs. Temperature:

Test Conditions (°C)	Measured Fequency （MHz）
	5180
-5	5180.0022
5	5180.0034
15	5180.0025
25	5180.0124
35	5180.0086
45	5180.0110
50	5180.0131
Max. Deviation Frequency	0.0131
Max. Frequency Error (ppm)	2.5

Frequency Error vs. Voltage:

Test Conditions	Measured Fequency （MHz）
	5825
V nom(V)	5825.0056
V max(V)	5825.0041
V min(V)	5825.0081
Max. Deviation Frequency	0.0081
Max. Frequency Error (ppm)	0.13

Frequency Error vs. Temperature:

Test Conditions (°C)	Measured Fequency （MHz）
	5825
-5	5825.0023
5	5825.0054
15	5825.0057
25	5825.0101
35	5825.0098
45	5825.0092
50	5825.0091
Max. Deviation Frequency	0.0101
Max. Frequency Error (ppm)	1.7

SEND