Appendix 1
Test Results

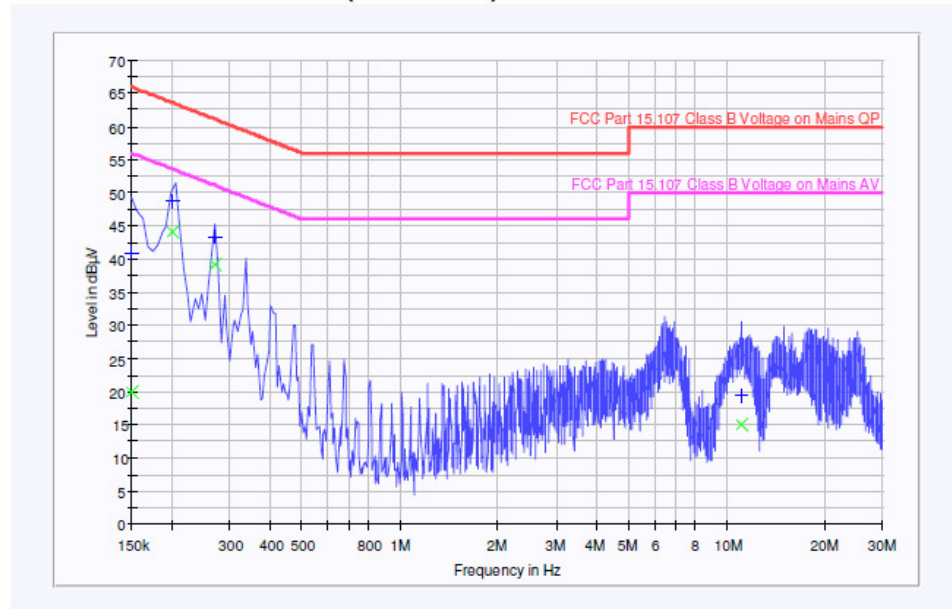TÜVRheinland®

Disturbance Voltage on AC Mains

TUV Rheinland Hong Kong Ltd.

Continuous Disturbance

Test Information

EUT Name: Thinkgeek BT Keyboard
Serial Number: N/A(00110819112-001)
Test Description: FCC Part 15
Operating Conditions: Charging + Operation Mode
Operator Name: Gary Sham
Comment: 110V 60Hz
Description CE L1

Conducted Emission   (FCC-P.15) - Class B

Result Table_Single

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)
0.150000	41.0	20.1
0.200250	48.9	44.2
0.270000	43.3	39.2
11.064000	19.4	15.1

06/09/2011 14:51:57
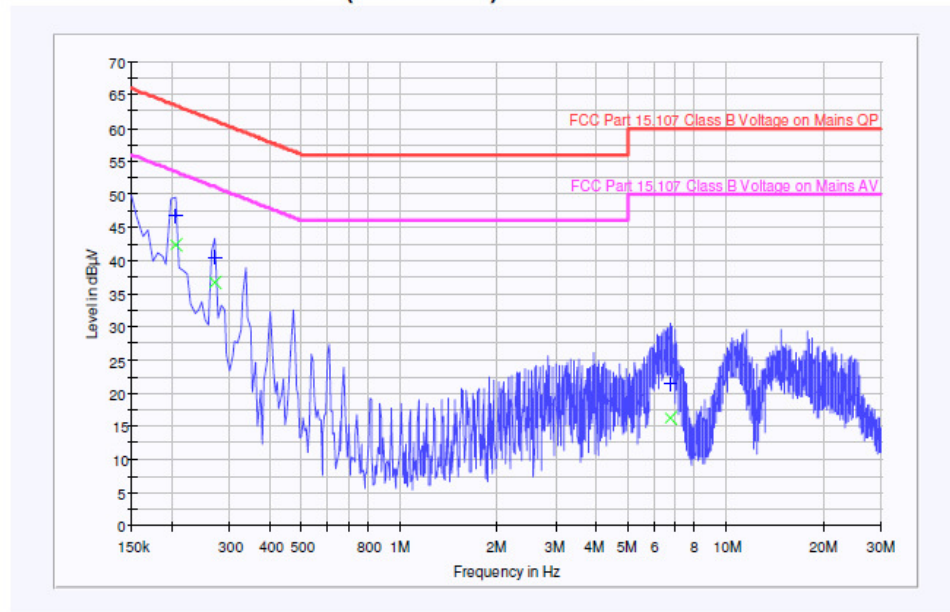
TÜVRheinland®

TUV Rheinland Hong Kong Ltd.

Continuous Disturbance

Test Information

EUT Name: Thinkgeek BT Keyboard
Serial Number: N/A(00110819112-001)
Test Description: FCC Part 15
Operating Conditions: Charging + Operation Mode
Operator Name: Gary Sham
Comment: 110V 60Hz
Description   CE N

Conducted Emission   (FCC-P.15) - Class B

Result Table_Single

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)
0.204000	46.8	42.5
0.270000	40.4	36.8
6.804000	21.4	16.3

06/09/2011   14:57:05

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Carrier Frequency Separation


```
┌─────────────────────────────────────────────────────────────────────┐
│ MARKER 1                              RBW 100 kHz   Marker 1 [T1 ]     │
│  2.440976 GHz                         VBW 300 kHz          -2.58 dBm   │
│ Ref  20 dBm          *Att  30 dB      SWT 2.5 ms        2.440976000 GHz│
└─────────────────────────────────────────────────────────────────────┘
```

Delta 2 [T1] 0.02 dB 1.002000000 MHz
Delta 3 [T1] 0.01 dB -1.008000000 MHz
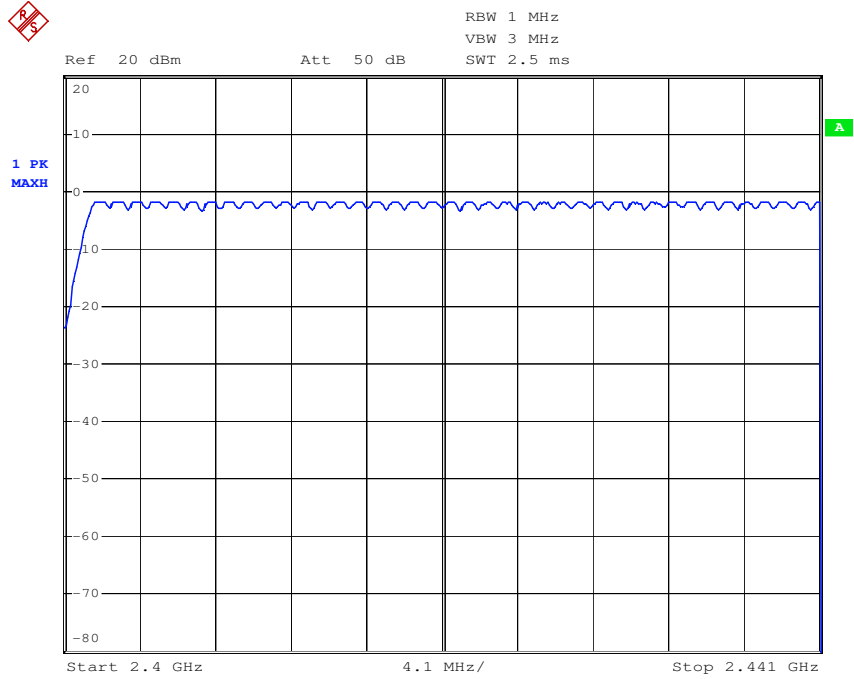
1 PK MAXH
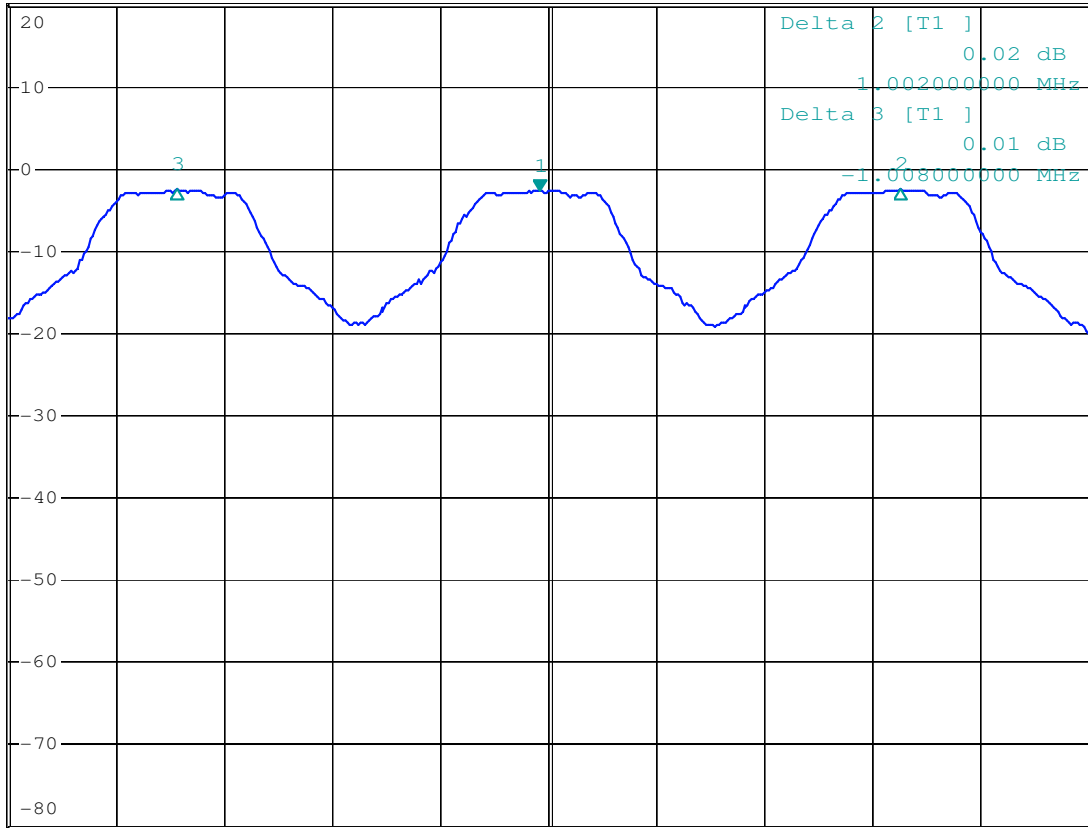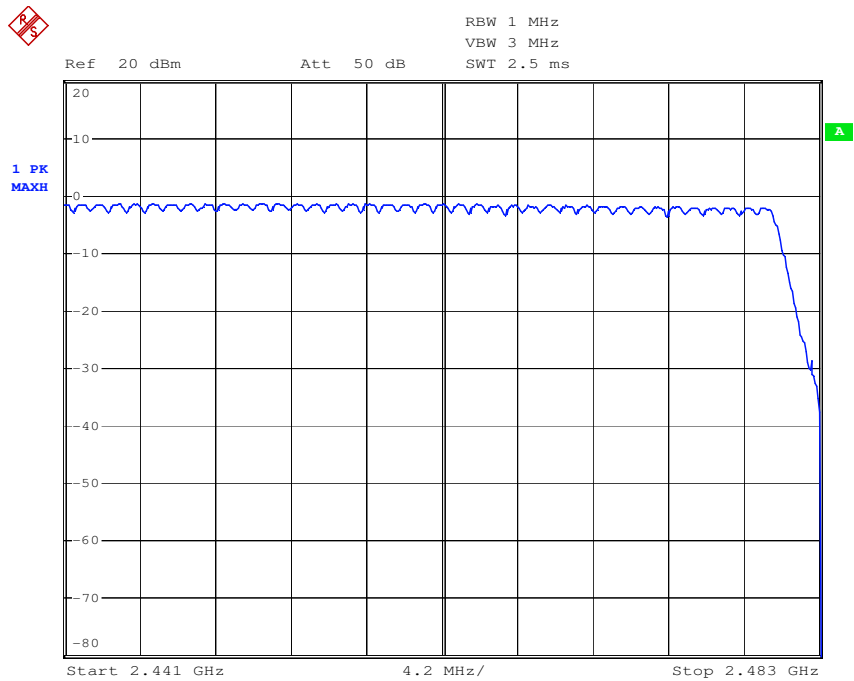
Center 2.441 GHz   300 kHz/   Span 3 MHz

Date: 30.AUG.2011 11:21:34

Number of hopping channels

```
                                              RBW  1 MHz
                                              VBW  3 MHz
        Ref  20 dBm            Att  50 dB     SWT  2.5 ms
         20
         10                                                        A
1 PK
MAXH
          0
        -10
        -20
        -30
        -40
        -50
        -60
        -70
        -80
        Start 2.4 GHz          4.1 MHz/          Stop 2.441 GHz
```
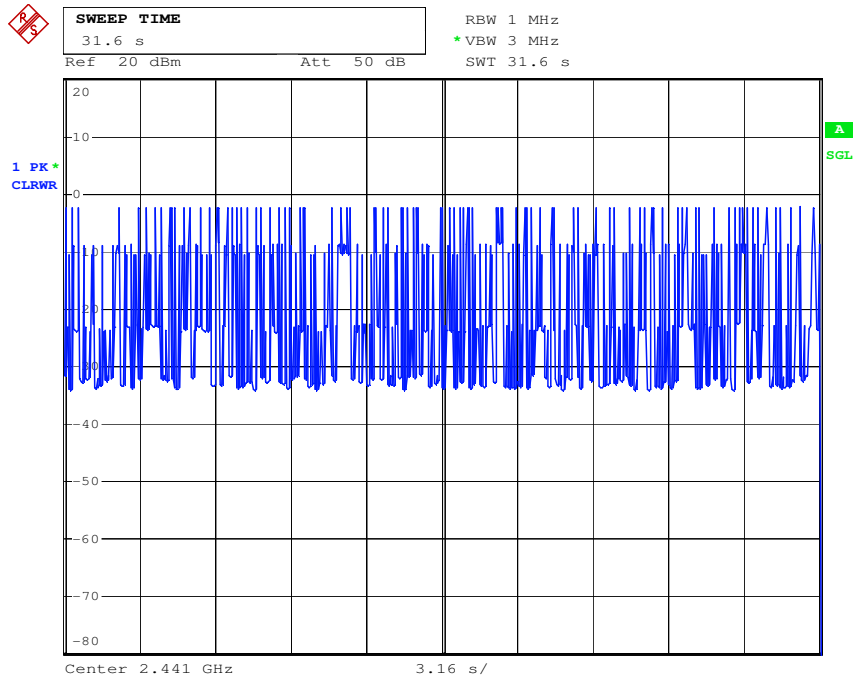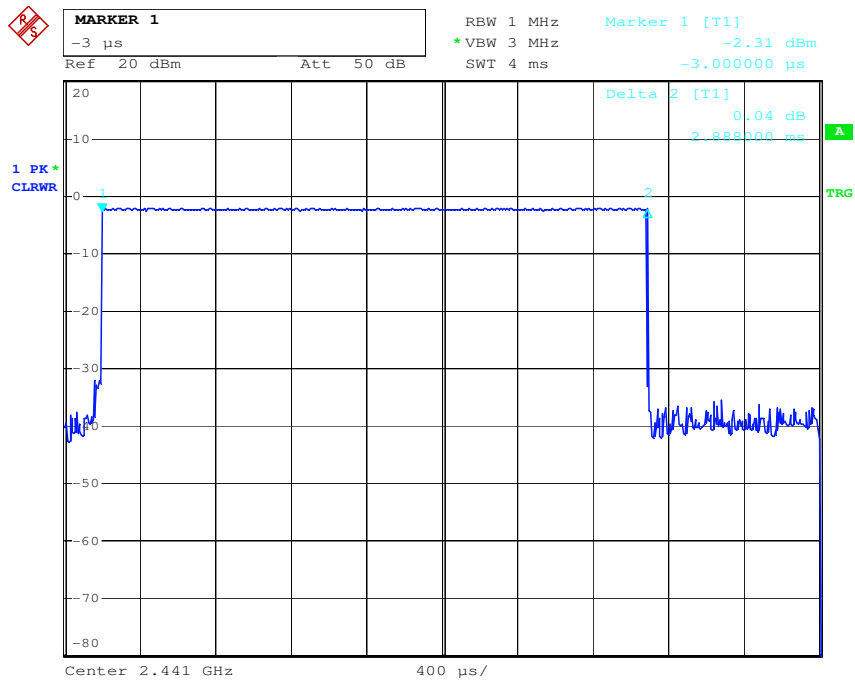
Date: 14.SEP.2011 21:18:45

```
                                              RBW  1 MHz
                                              VBW  3 MHz
        Ref  20 dBm            Att  50 dB     SWT  2.5 ms
         20
         10                                                        A
1 PK
MAXH
          0
        -10
        -20
        -30
        -40
        -50
        -60
        -70
        -80
        Start 2.441 GHz        4.2 MHz/          Stop 2.483 GHz
```

Date: 14.SEP.2011 21:29:58

Dwell Time

```
R&S    SWEEP TIME                          RBW 1 MHz
       31.6 s                             *VBW 3 MHz
       Ref  20 dBm        Att  50 dB       SWT 31.6 s
```

```
  20
                                                              A
  10                                                          SGL
1 PK*
CLRWR   0

 -40

 -50

 -60

 -70

 -80
       Center 2.441 GHz                   3.16 s/
```

Date: 14.SEP.2011 21:31:51

```
R&S    MARKER 1                            RBW 1 MHz      Marker 1 [T1]
       -3 µs                              *VBW 3 MHz              -2.31 dBm
       Ref  20 dBm        Att  50 dB       SWT 4 ms          -3.000000 µs
```

```
  20                                                  Delta 2 [T1]
                                                              0.04 dB
  10                                                   2.882000 ms    A
1 PK*
CLRWR   0   1                              2                   TRG

 -10

 -20

 -30

 -40

 -50

 -60

 -70

 -80
       Center 2.441 GHz                   400 µs/
```

Date: 14.SEP.2011 21:33:07

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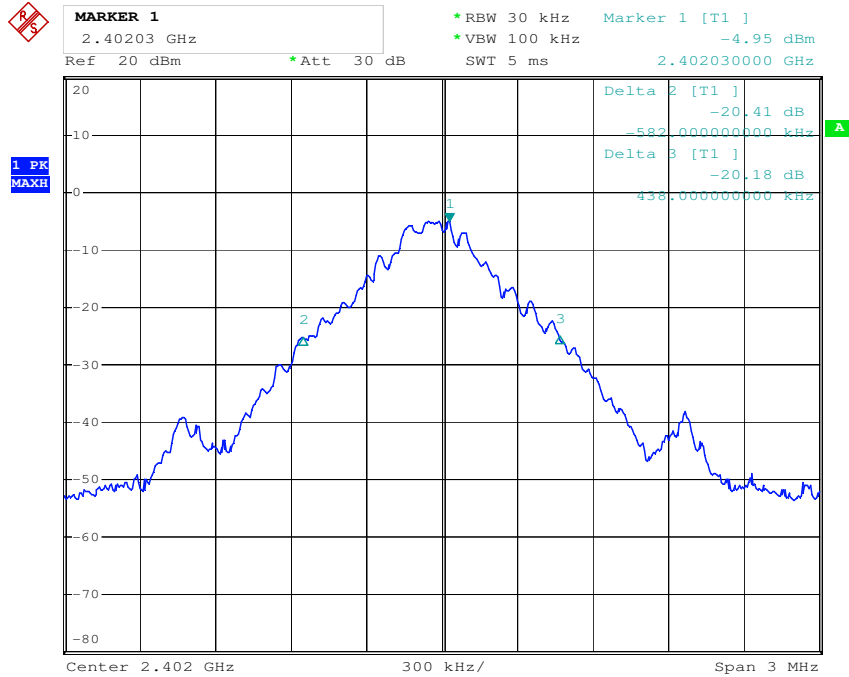
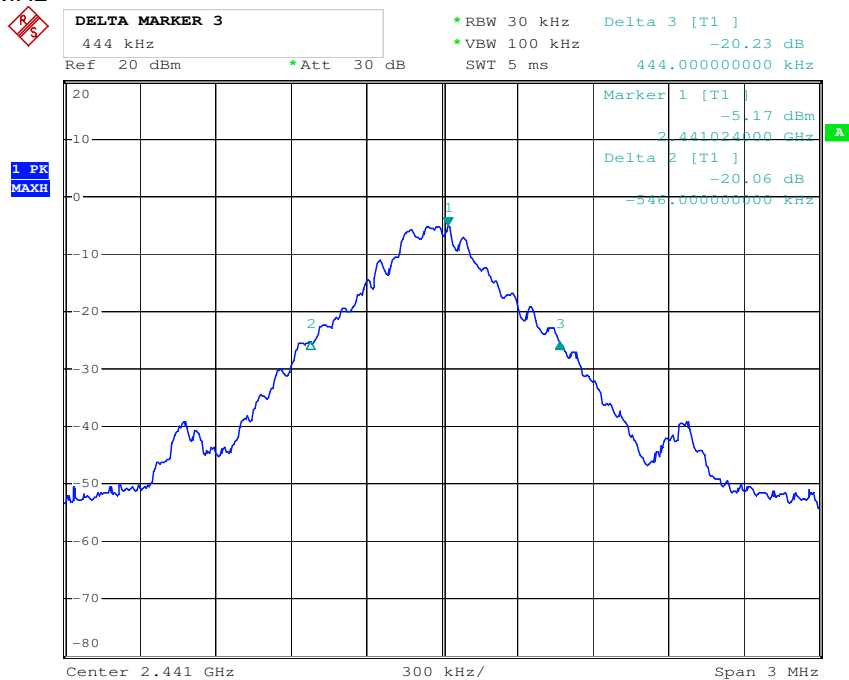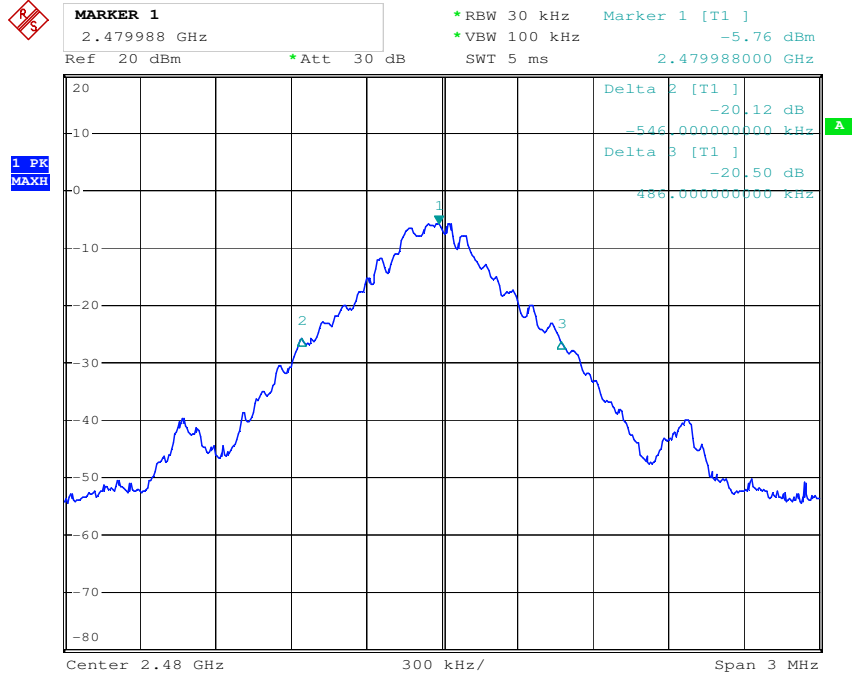## 20dB Bandwidth

Modulation: GFSK
Tx frequency: 2402MHz

Date: 30.AUG.2011 11:24:01

Modulation: GFSK
Tx frequency: 2441MHz

Date: 30.AUG.2011 11:25:42
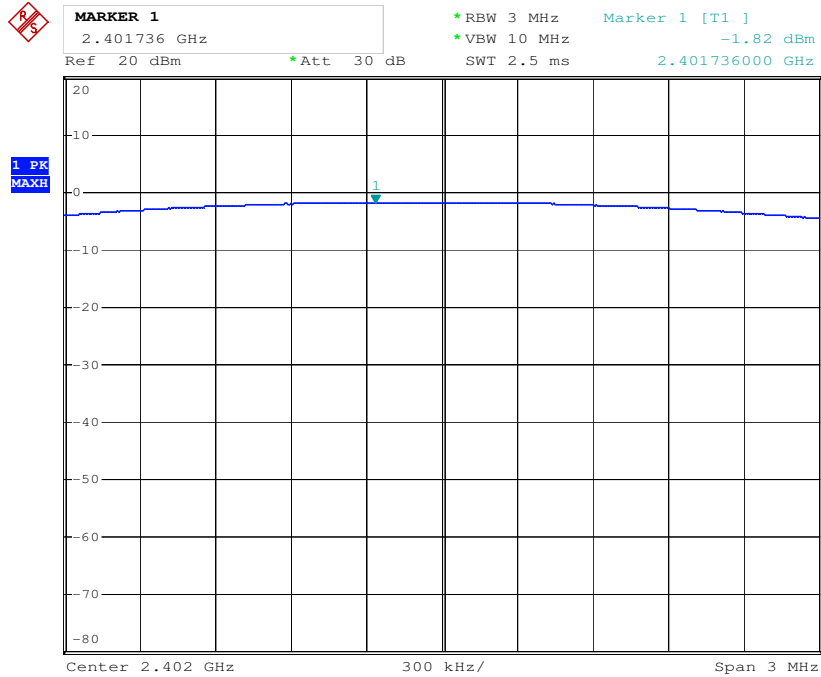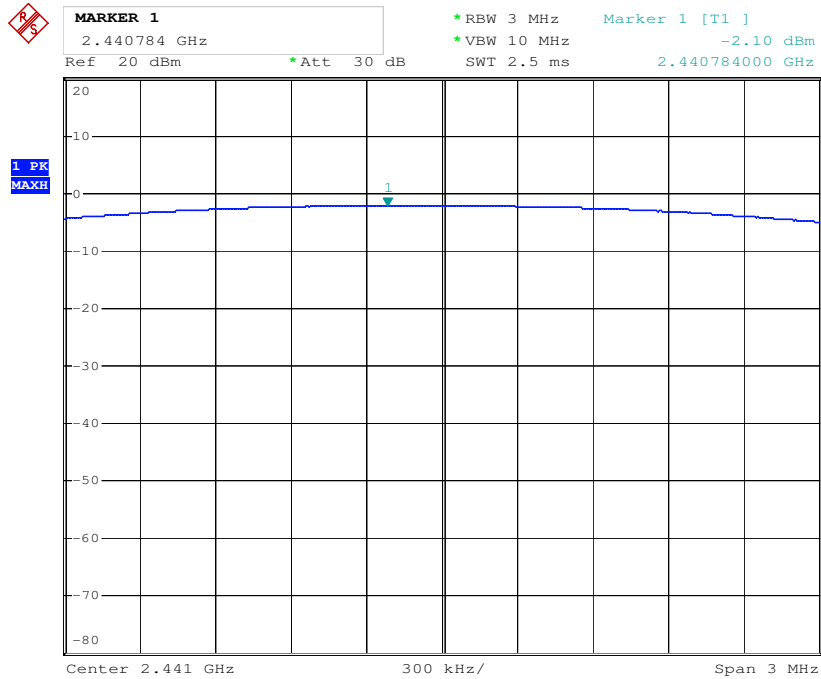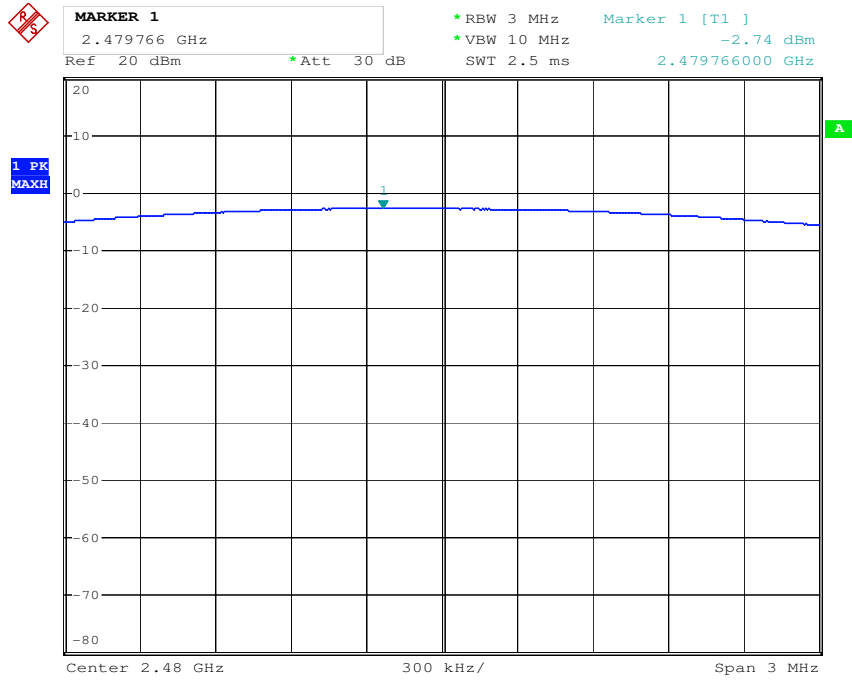
Modulation: GFSK
Tx frequency: 2480MHz

MARKER 1			*RBW 30 kHz	Marker 1 [T1]	
2.479988 GHz			*VBW 100 kHz		-5.76 dBm
Ref 20 dBm		*Att 30 dB	SWT 5 ms		2.479988000 GHz

Date: 30.AUG.2011 11:27:11

Peak Output Power

Modulation: GFSK
Tx frequency: 2402MHz

MARKER 1		*RBW 3 MHz	Marker 1 [T1]
2.401736 GHz		*VBW 10 MHz	−1.82 dBm
Ref 20 dBm	*Att 30 dB	SWT 2.5 ms	2.401736000 GHz

Center 2.402 GHz   300 kHz/   Span 3 MHz

Date: 30.AUG.2011 11:31:30

Modulation: GFSK
Tx frequency: 2441MHz

MARKER 1		*RBW 3 MHz	Marker 1 [T1]
2.440784 GHz		*VBW 10 MHz	−2.10 dBm
Ref 20 dBm	*Att 30 dB	SWT 2.5 ms	2.440784000 GHz

Center 2.441 GHz   300 kHz/   Span 3 MHz

Date: 30.AUG.2011 11:29:56

Modulation: GFSK
Tx frequency: 2480MHz


```
MARKER 1                              *RBW 3 MHz      Marker 1 [T1 ]
2.479766 GHz                          *VBW 10 MHz              -2.74 dBm
Ref  20 dBm          *Att  30 dB       SWT 2.5 ms     2.479766000 GHz
```

Date: 30.AUG.2011 11:29:07

Band Edge Compliance

Tx frequency: 2402MHz (conducted measurement; hopping on)

MARKER 1		*RBW 100 kHz	Marker 1 [T1]
2.40396 GHz		*VBW 300 kHz	-2.69 dBm
Ref 20 dBm	*Att 30 dB	SWT 2.5 ms	2.403960000 GHz
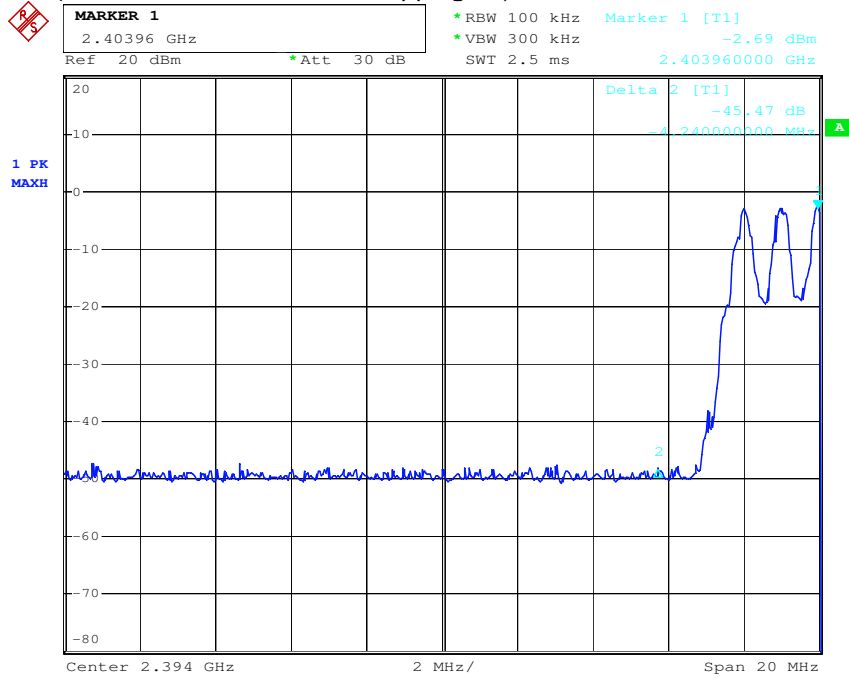
Date: 14.SEP.2011 21:37:05

Tx frequency: 2480MHz (conducted measurement; hopping on)

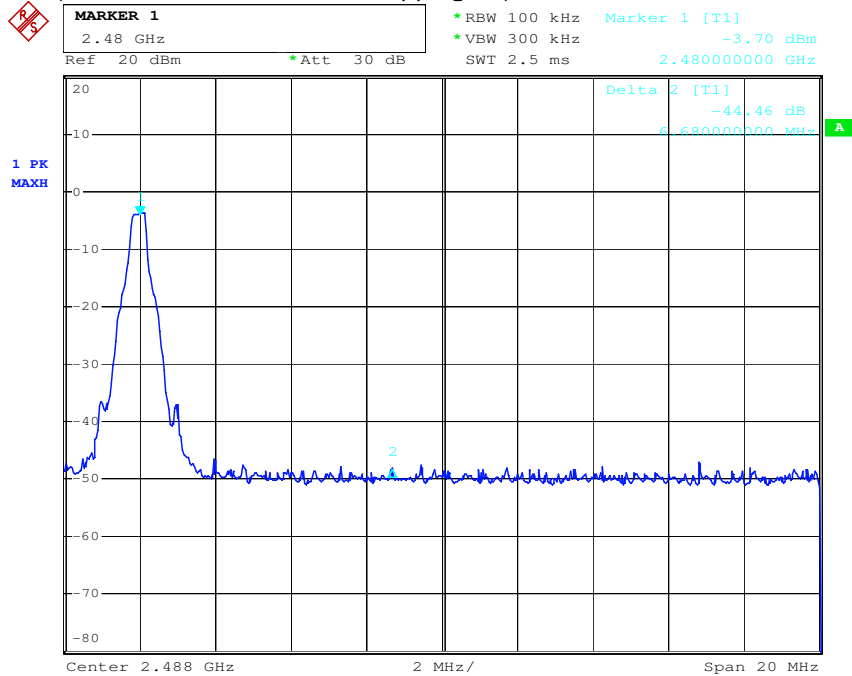| MARKER 1		*RBW 100 kHz	Marker 1 [T1]
2.48 GHz		*VBW 300 kHz	-4.21 dBm
Ref 20 dBm	*Att 30 dB	SWT 2.5 ms	2.480000000 GHz
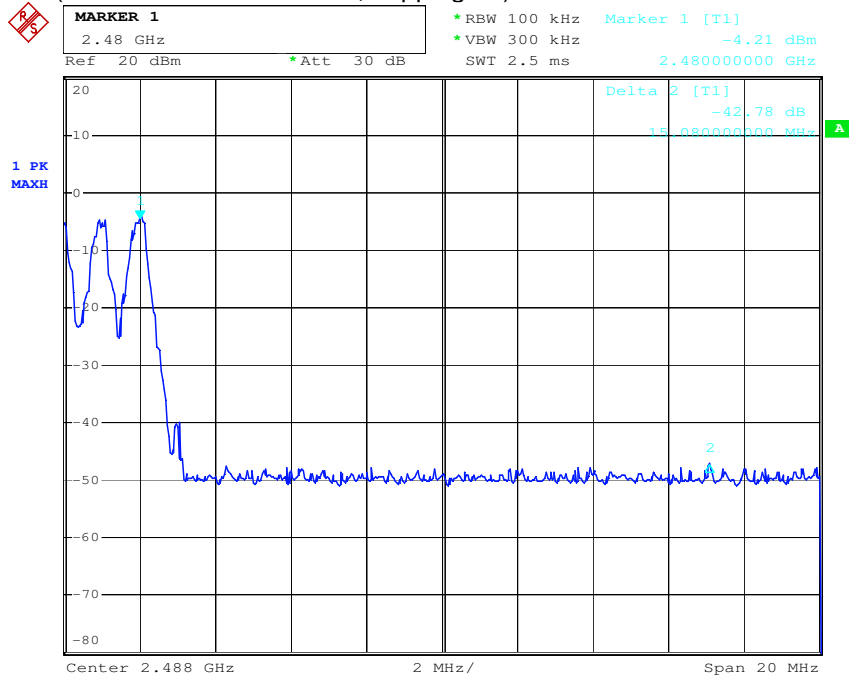
Date: 14.SEP.2011 21:46:16

Tx frequency: 2402MHz (conducted measurement; hopping off)
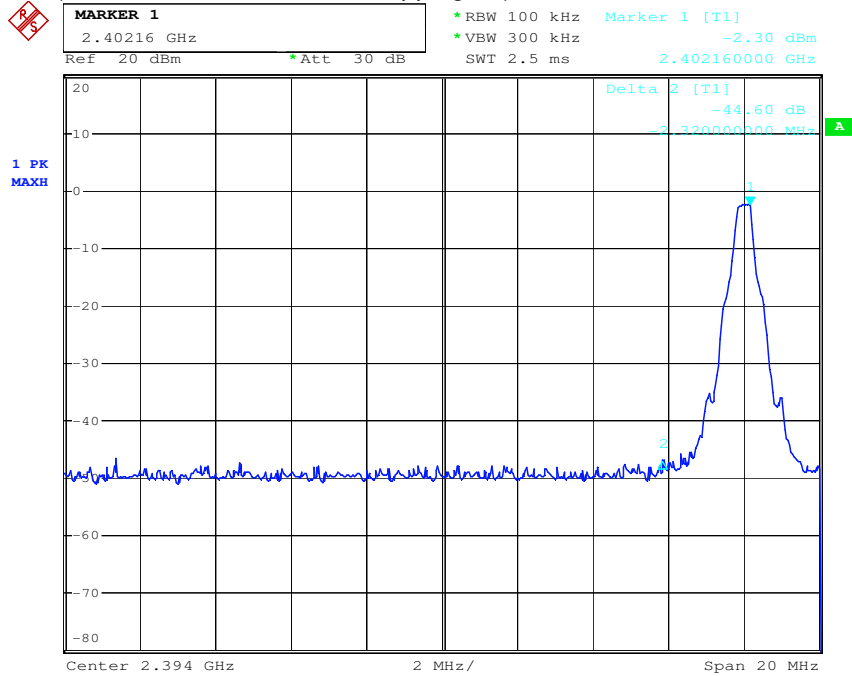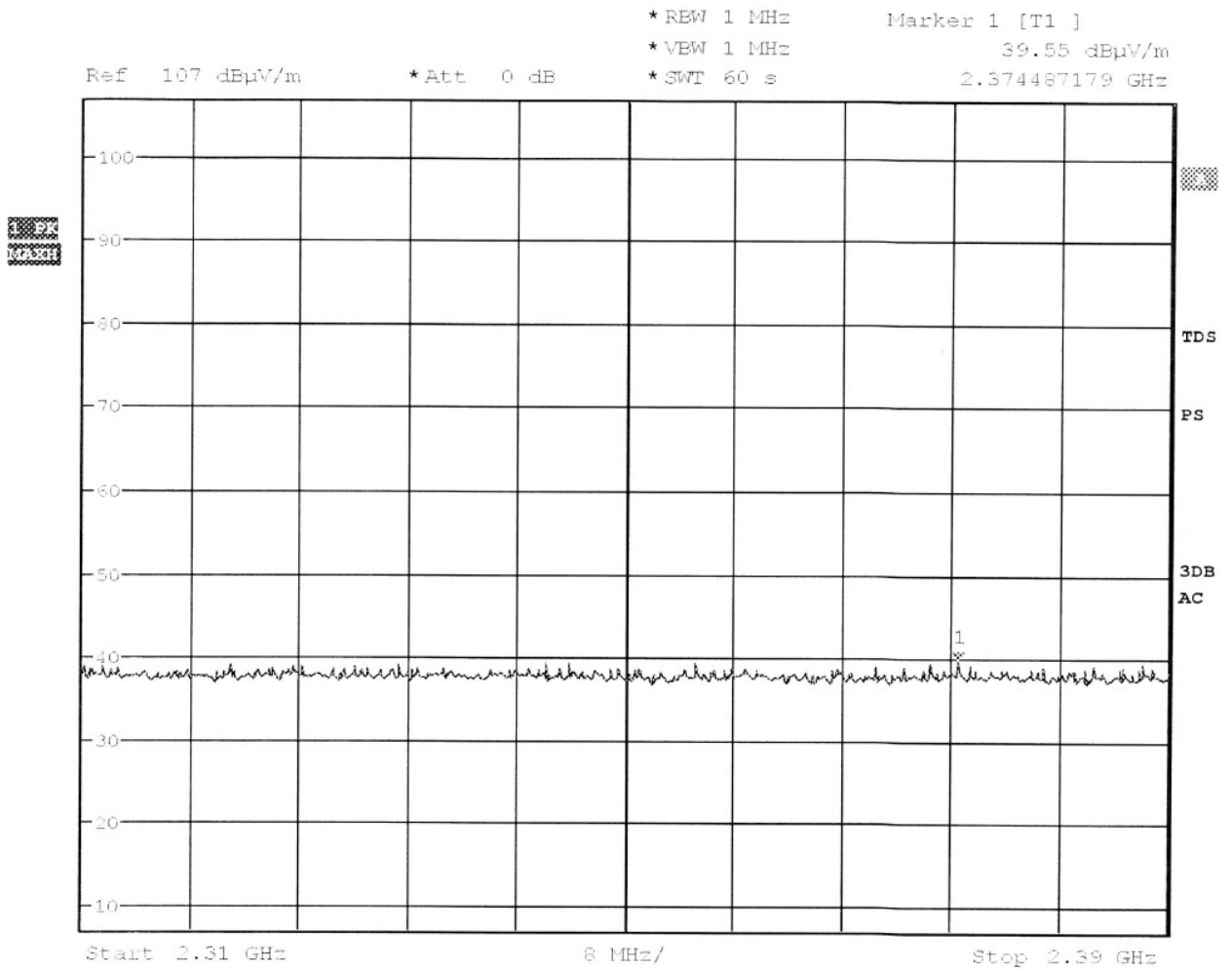

Date: 14.SEP.2011 21:38:23

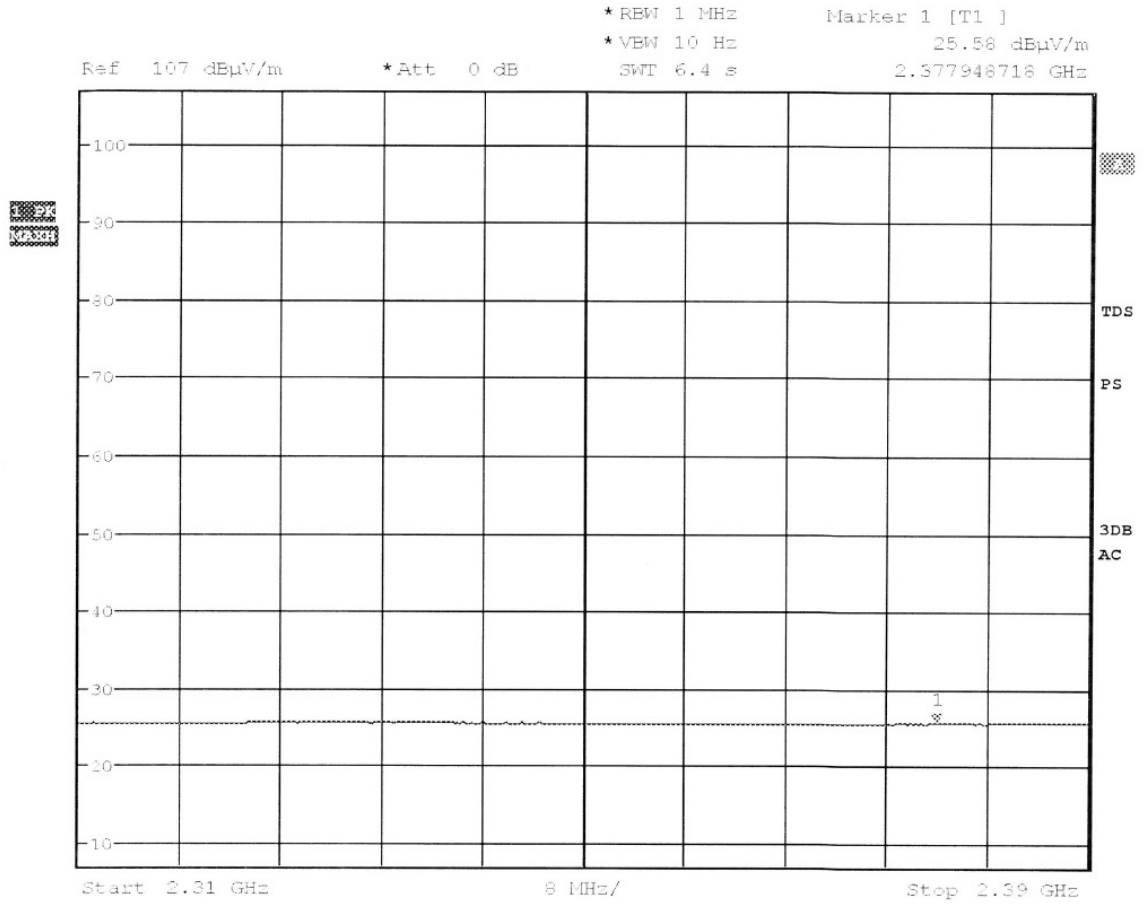Tx frequency: 2480MHz (conducted measurement; hopping off)

Date: 14.SEP.2011 21:47:28

Tx frequency: 2402MHz (radiated measurement)


```
                                    * RBW  1 MHz      Marker 1 [T1 ]
                                    * VBW  1 MHz           39.55 dBµV/m
     Ref   107 dBµV/m    * Att  0 dB   * SWT  60 s    2.374487179 GHz
```
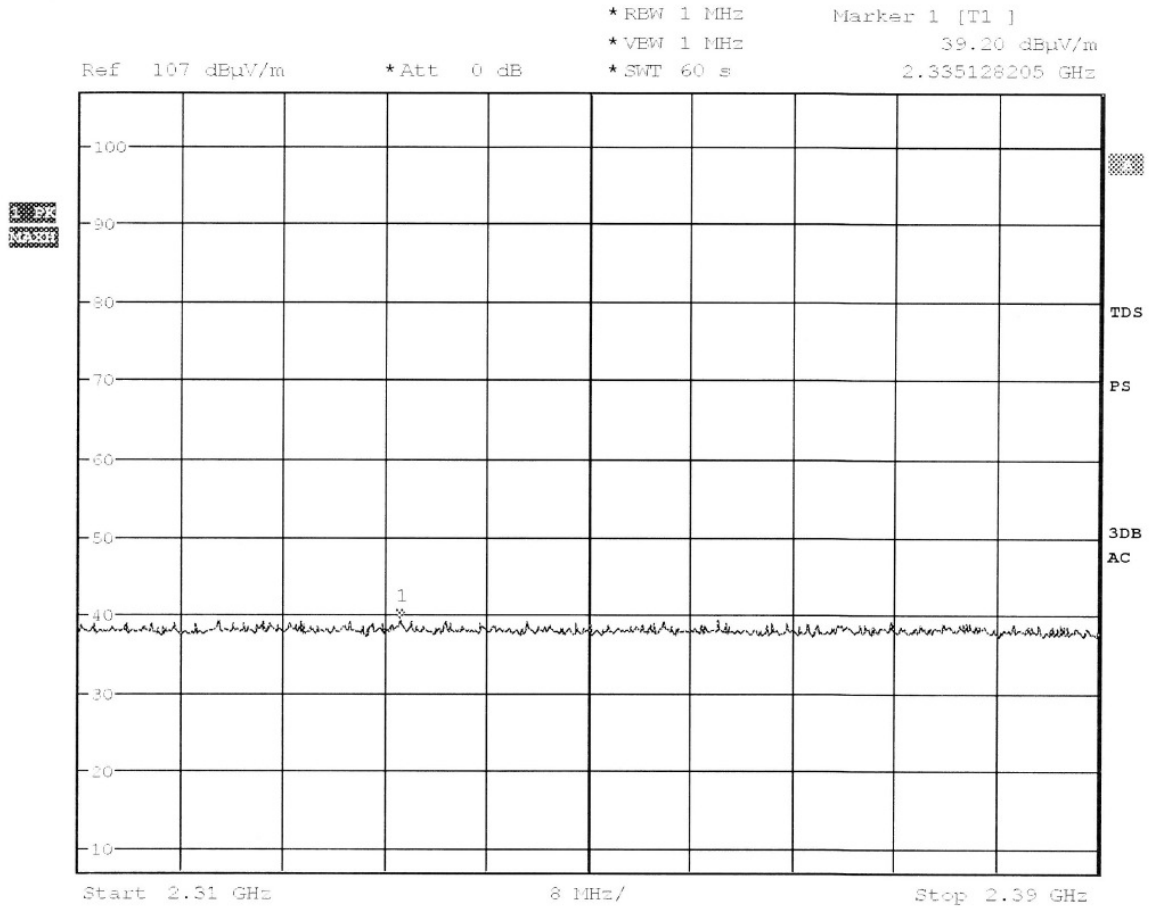
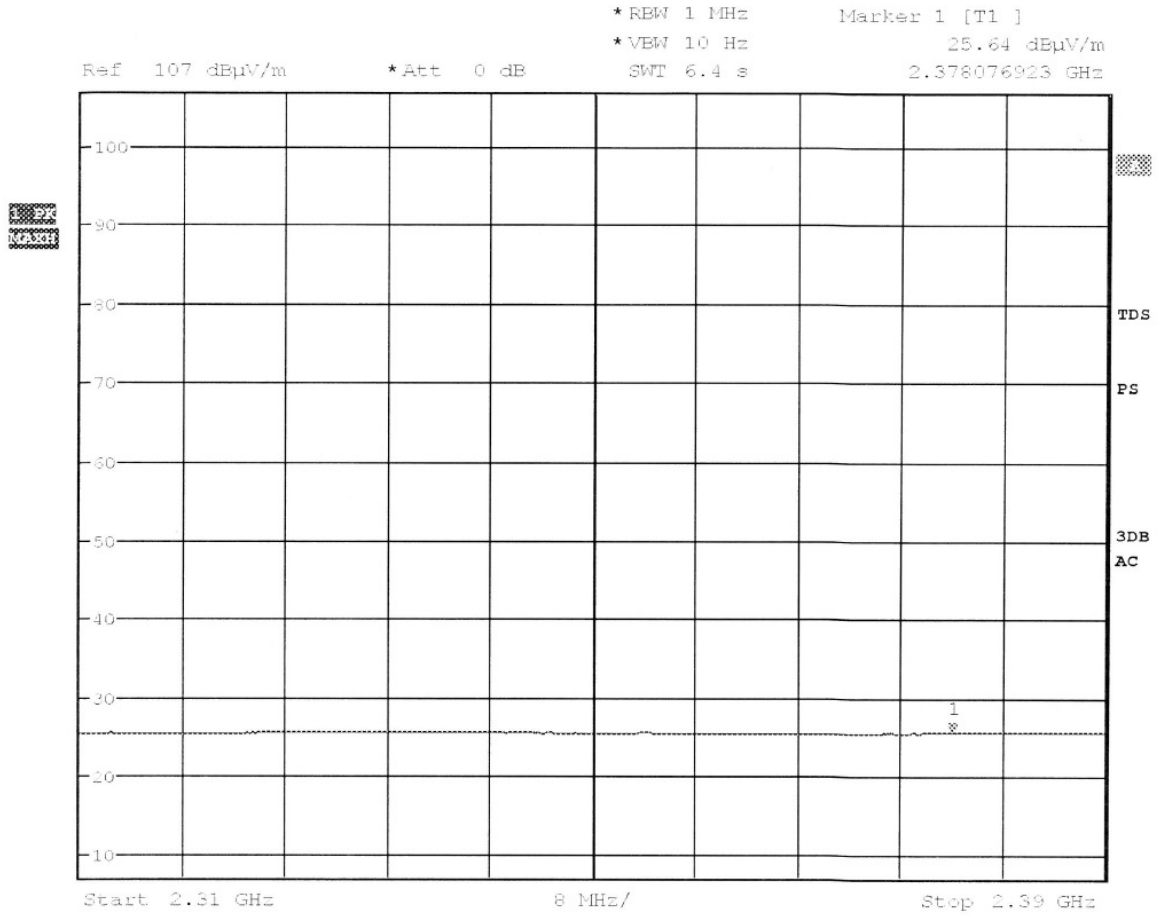THINK GEEK/ BT KEYBOARD/ 00110819112-001/ VERT./ 2402MHz
Date: 8.SEP.2011 10:51:23

THINK GEEK/ BT KEYBOARD/ 00110819112-001/ VERT./ 2402MHz
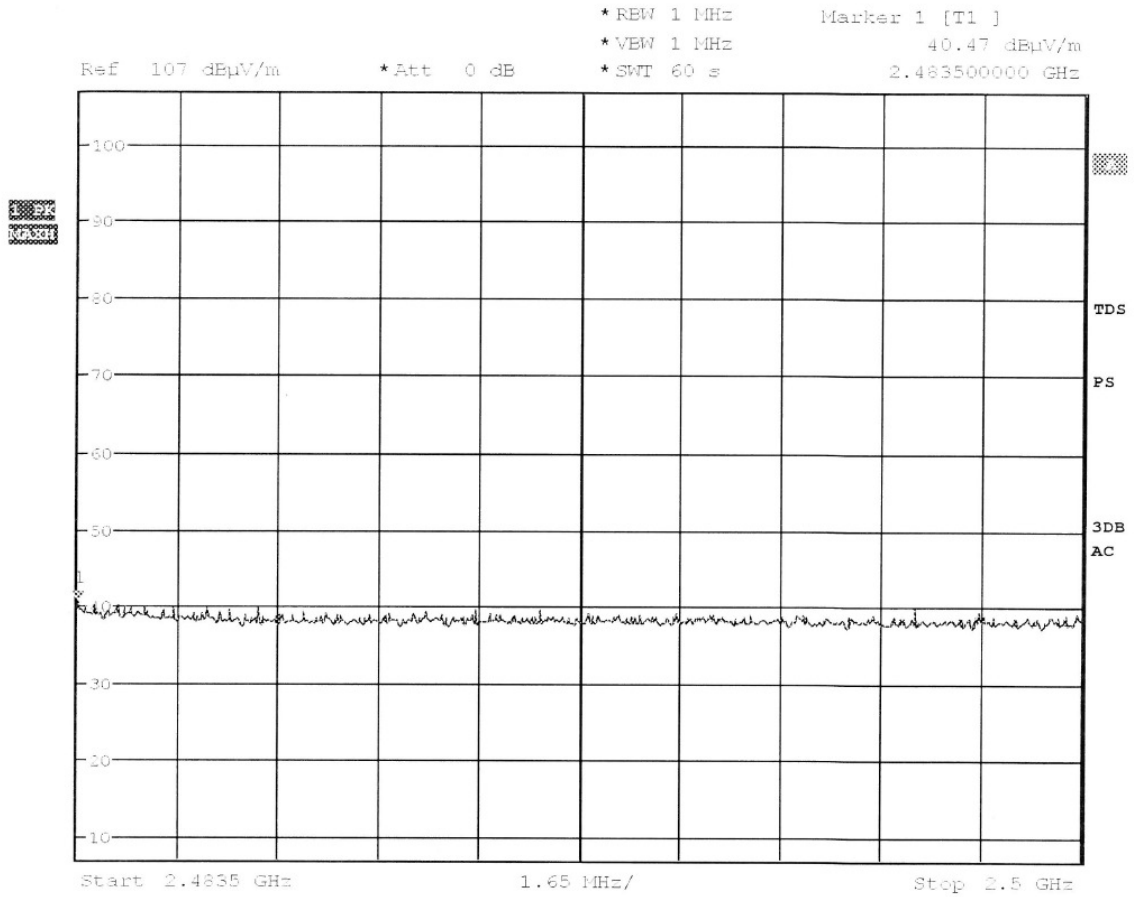
Date: 8.SEP.2011 10:51:37

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THINK GEEK/ BT KEYBOARD/ 00110819112-001/ HORI./ 2402MHz
Date: 8.SEP.2011   10:49:46

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*RBW 1 MHz	Marker 1 [T1]	
*VBW 10 Hz	25.64 dBμV/m	
Ref 107 dBμV/m	*Att 0 dB	SWT 6.4 s	2.378076923 GHz

Start 2.31 GHz   8 MHz/   Stop 2.39 GHz
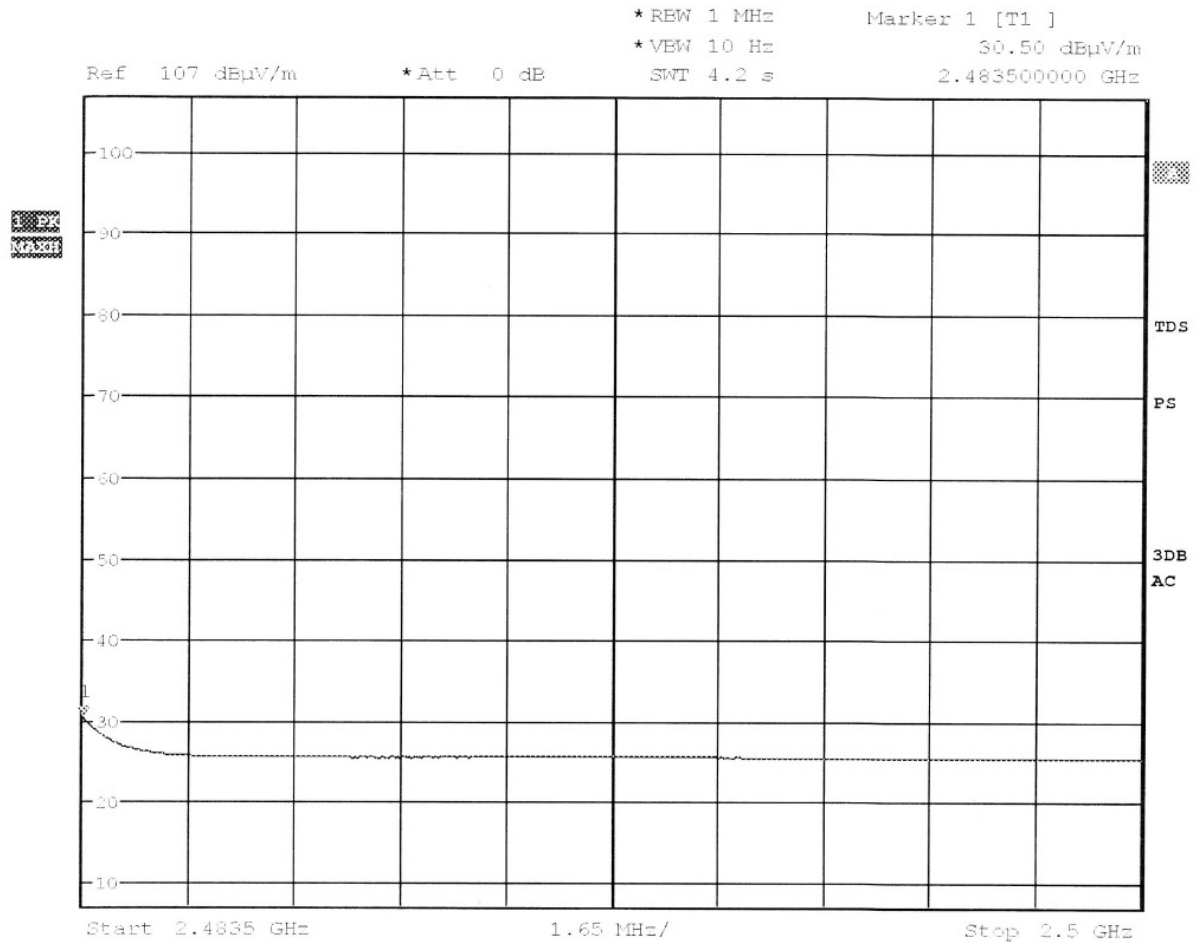
THINK GEEK/ BT KEYBOARD/ 00110819112-001/ HORI./ 2402MHz
Date: 8.SEP.2011 10:50:08

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Tx frequency: 2480MHz (radiated measurement)


```
                                    * RBW  1 MHz      Marker 1 [T1 ]
                                    * VBW  1 MHz            40.47 dBµV/m
Ref   107 dBµV/m      * Att   0 dB  * SWT  60 s       2.483500000 GHz
```

THINK GEEK/ BT KEYBOARD/ 00110819112-001/ VERT./ 2480MHz
Date: 8.SEP.2011 11:54:17

TÜVRheinland®

```
                                              * RBW  1 MHz          Marker 1 [T1 ]
                                              * VBW  10 Hz                30.50 dBμV/m
   Ref   107 dBμV/m        * Att   0 dB        SWT  4.2 s           2.483500000 GHz
```



```
Start  2.4835 GHz              1.65 MHz/              Stop  2.5 GHz
```

THINK GEEK/ BT KEYBOARD/ 00110819112-001/ VERT./ 2480MHz
Date: 8.SEP.2011 11:55:44

TÜVRheinland®


```
                              * RBW   1 MHz        Marker 1 [T1 ]
                              * VBW   1 MHz               39.36 dBµV/m
Ref   107 dBµV/m    * Att   0 dB    * SWT   60 s        2.463764423 GHz
```
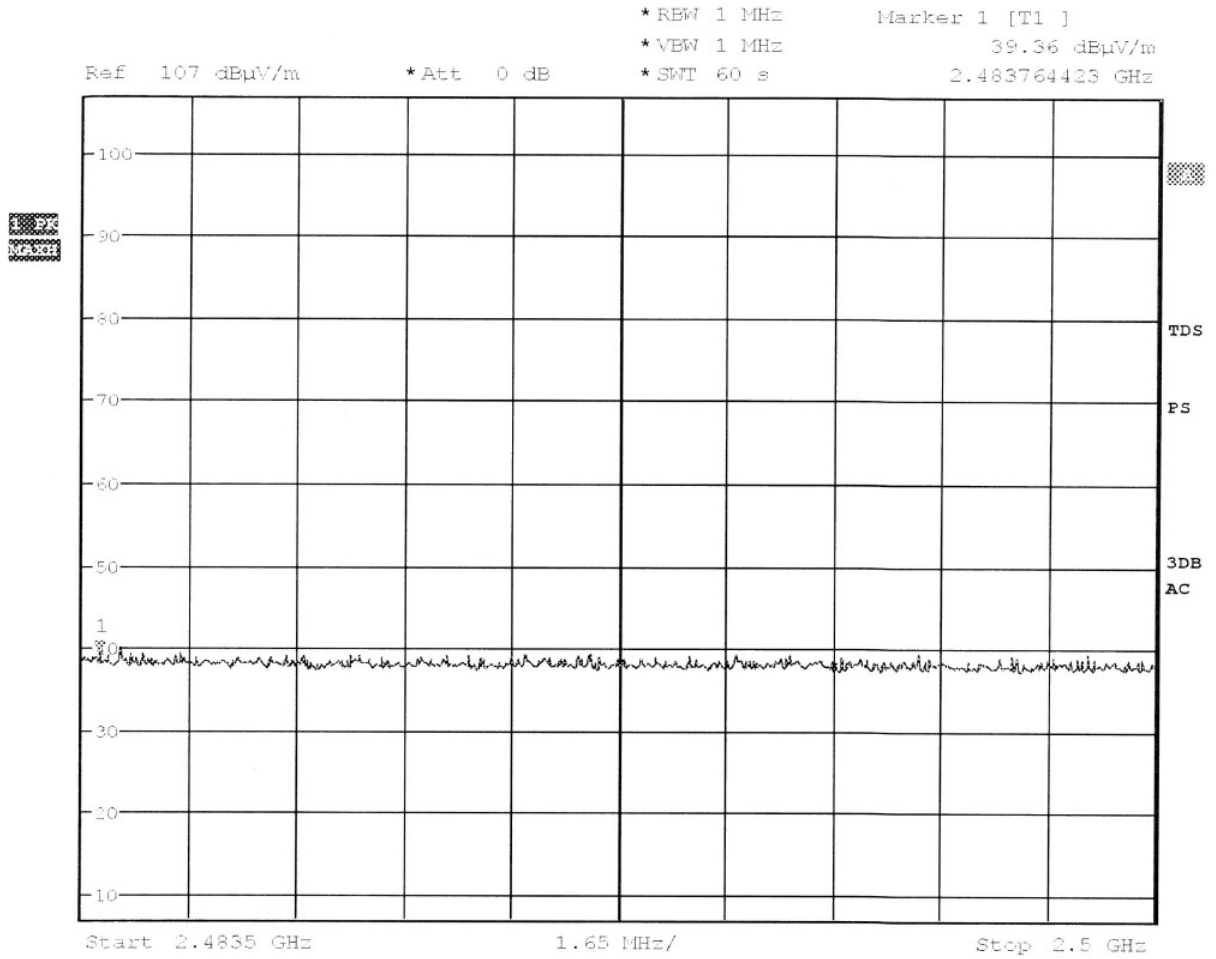
THINK GEEK/ BT KEYBOARD/ 00110819112-001/ HORI./ 2480MHz
Date: 8.SEP.2011 11:57:55

TÜVRheinland®
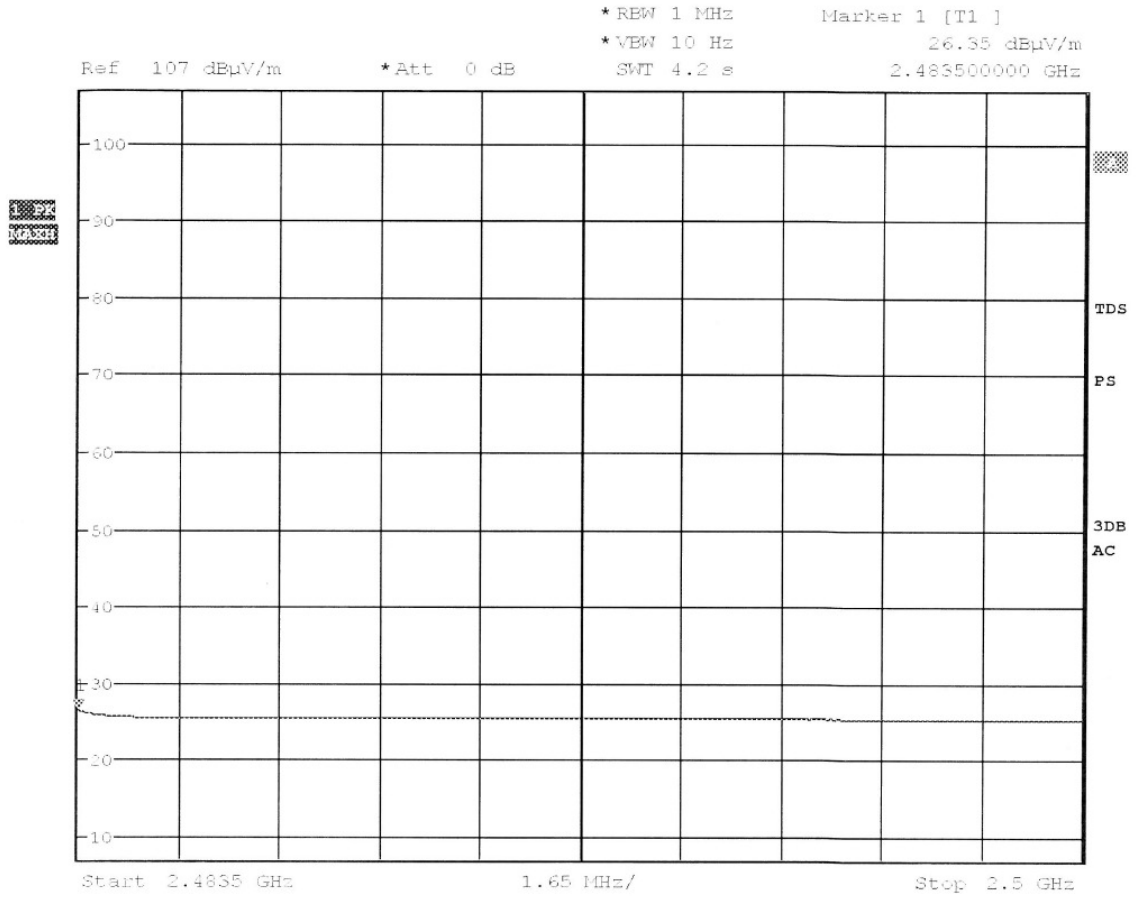
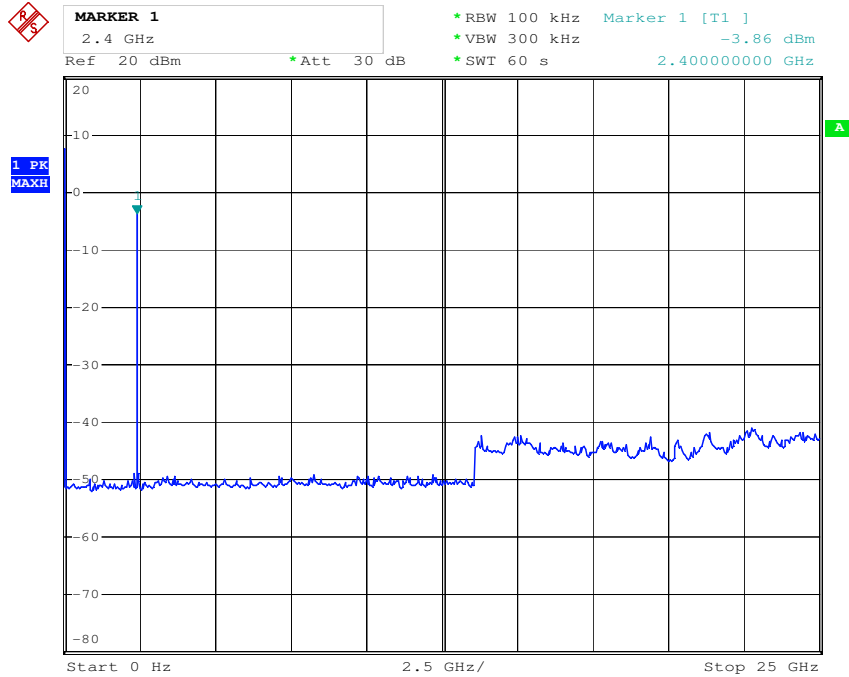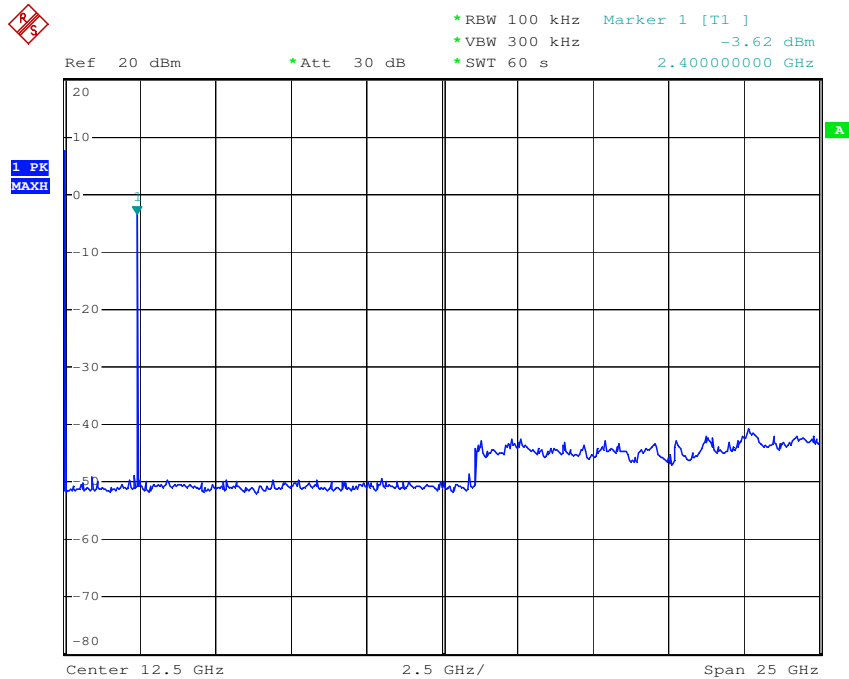THINK GEEK/ BT KEYBOARD/ 00110819112-001/ HORI./ 2480MHz
Date: 8.SEP.2011 11:58:08
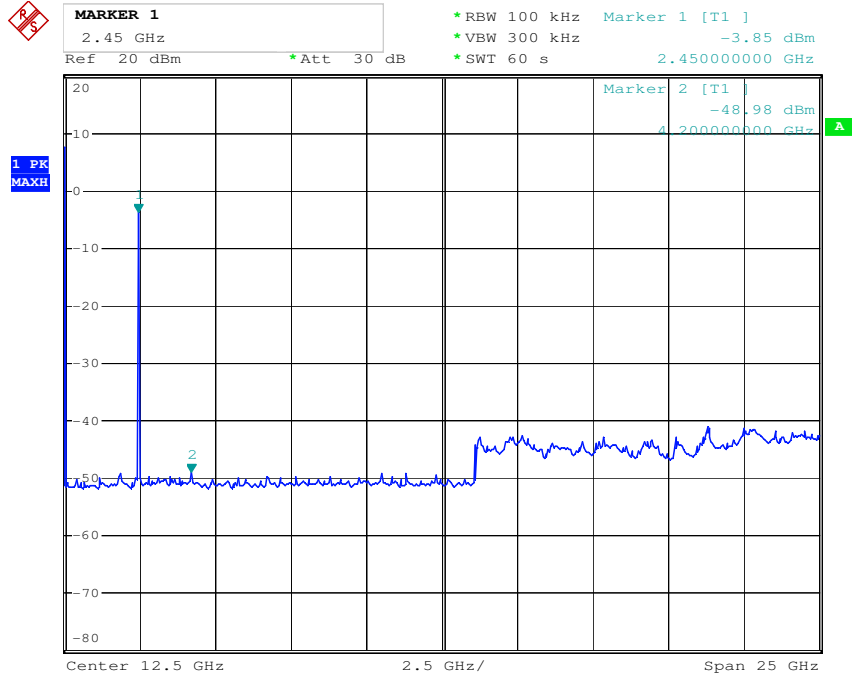
Spurious Emissions - Conducted

Tx frequency: 2402MHz


```
MARKER 1                        *RBW 100 kHz   Marker 1 [T1 ]
2.4 GHz                         *VBW 300 kHz            -3.86 dBm
Ref  20 dBm        *Att  30 dB  *SWT 60 s         2.400000000 GHz
```

Date: 30.AUG.2011 11:35:52

Tx frequency: 2441MHz


```
                                *RBW 100 kHz   Marker 1 [T1 ]
                                *VBW 300 kHz            -3.62 dBm
Ref  20 dBm        *Att  30 dB  *SWT 60 s         2.400000000 GHz
```

Date: 30.AUG.2011 11:39:21

Tx frequency: 2480MHz

MARKER 1		*RBW 100 kHz	Marker 1 [T1]
2.45 GHz		*VBW 300 kHz	-3.85 dBm
Ref 20 dBm	*Att 30 dB	*SWT 60 s	2.450000000 GHz

Marker 2 [T1]
-48.98 dBm
4.200000000 GHz

Center 12.5 GHz   2.5 GHz/   Span 25 GHz

Date: 30.AUG.2011 11:41:57