4.3.4.8.3 Test Channel = HCH

Occupied Bandwidth		Total Power	29.3 dBm
17.922 MHz			
Transmit Freq Error	31.514 kHz	OBW Power	99.00 %
x dB Bandwidth	19.47 MHz	x dB	-26.00 dB

5   Band Edges Compliance

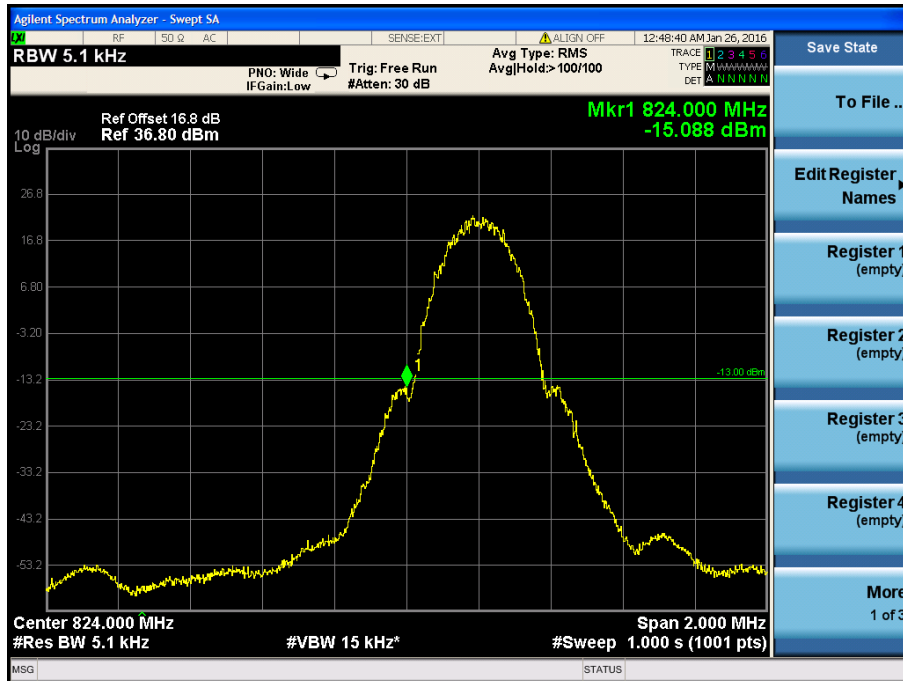Part I - Test Plots

5.1 For GSM

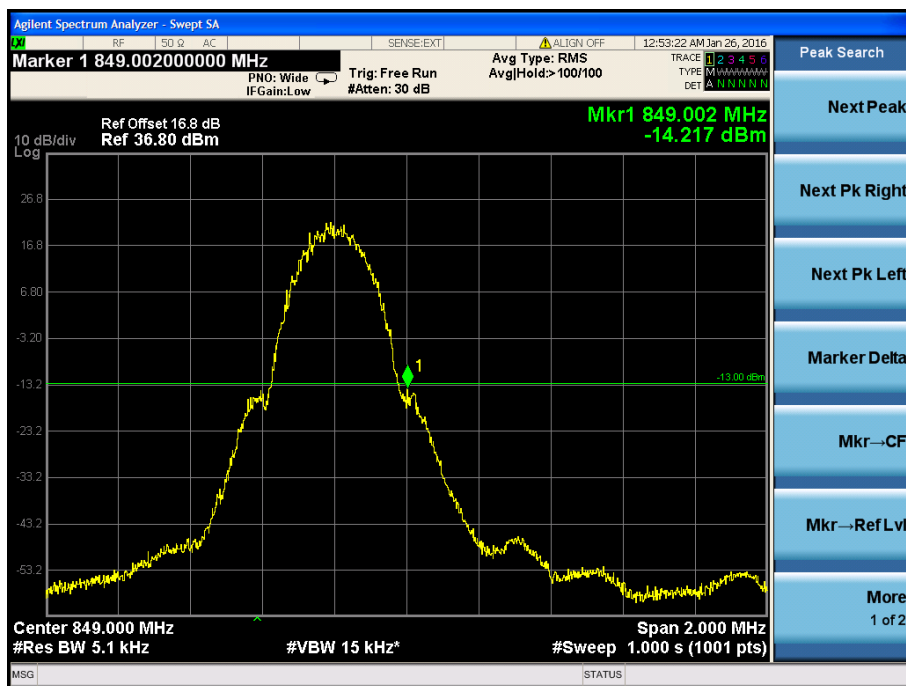### 5.1.1 Test Band = GSM850

5.1.1.1   Test Mode = GSM/TM1
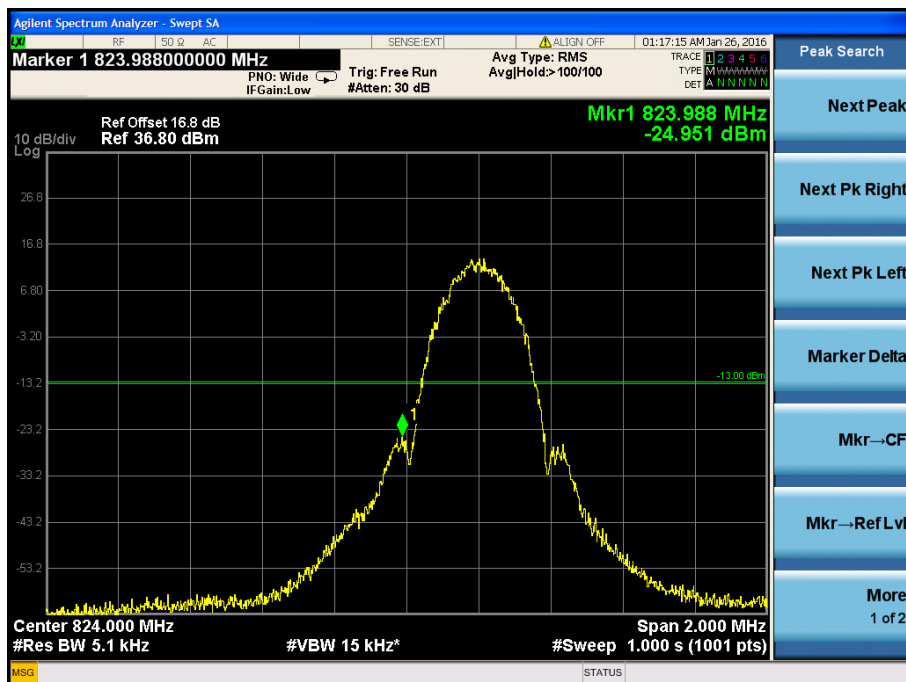
5.1.1.1.1 Test Channel = LCH

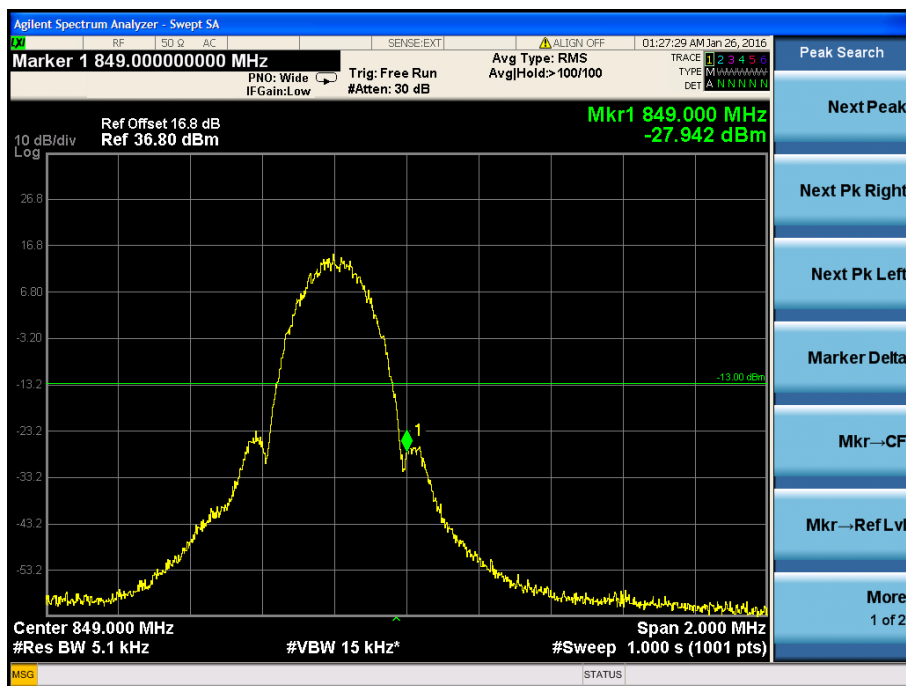### 5.1.1.1.2 Test Channel = HCH

5.1.1.2   Test Mode = GSM/TM2
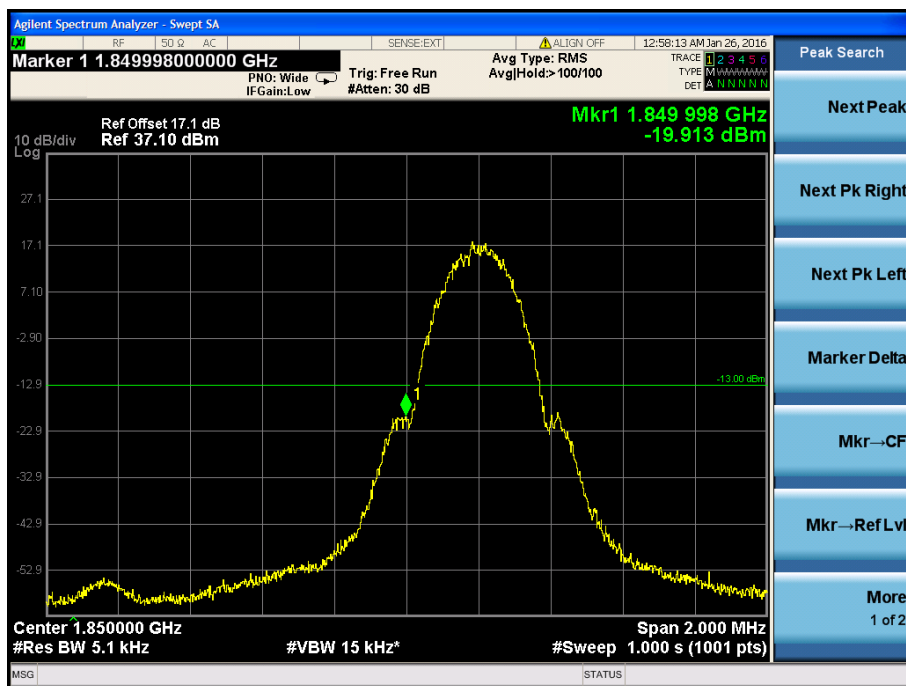
5.1.1.2.1 Test Channel = LCH

5.1.1.2.2 Test Channel = HCH

5.1.2 Test Band = GSM1900
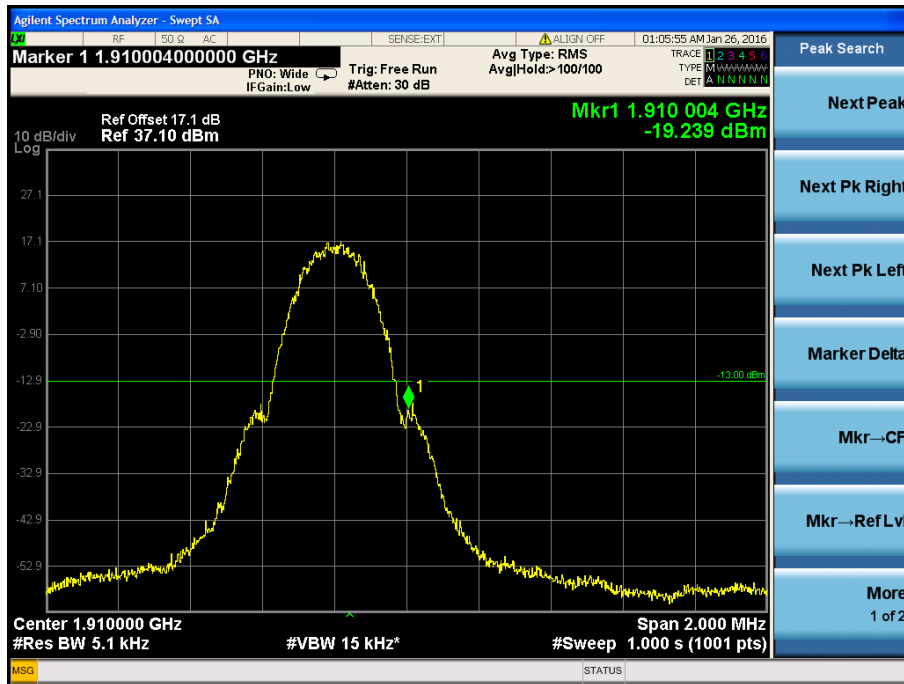
5.1.2.1 Test Mode = GSM/TM1
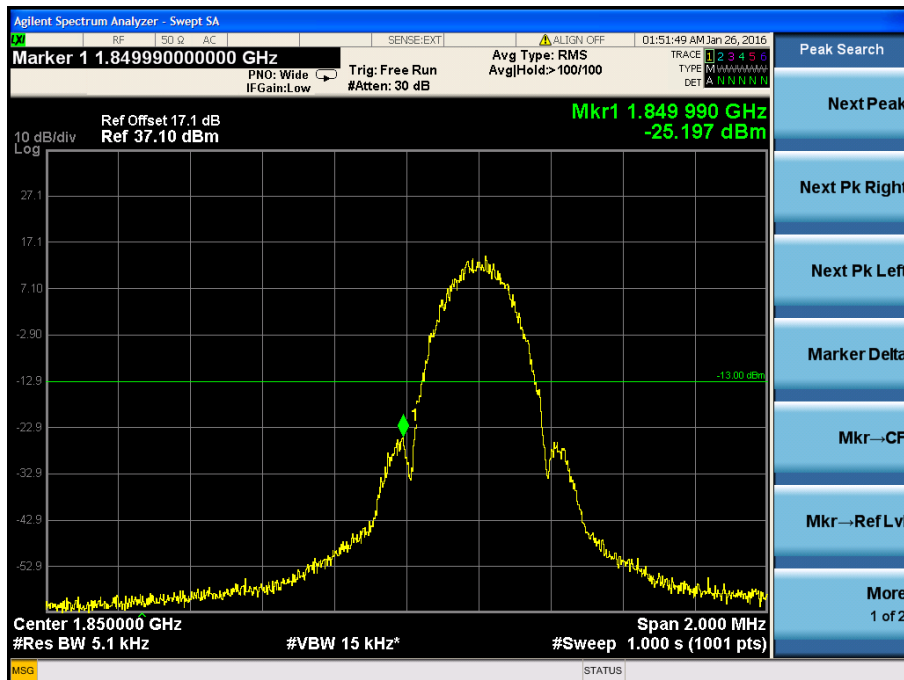
5.1.2.1.1 Test Channel = LCH
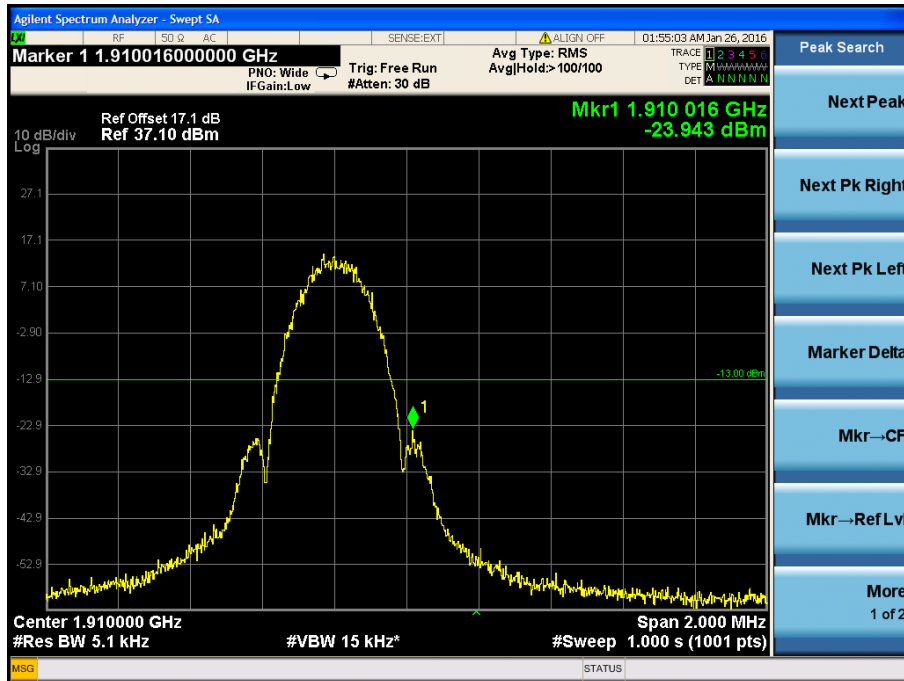
5.1.2.1.2 Test Channel = HCH

5.1.2.2   Test Mode = GSM/TM2

5.1.2.2.1 Test Channel = LCH
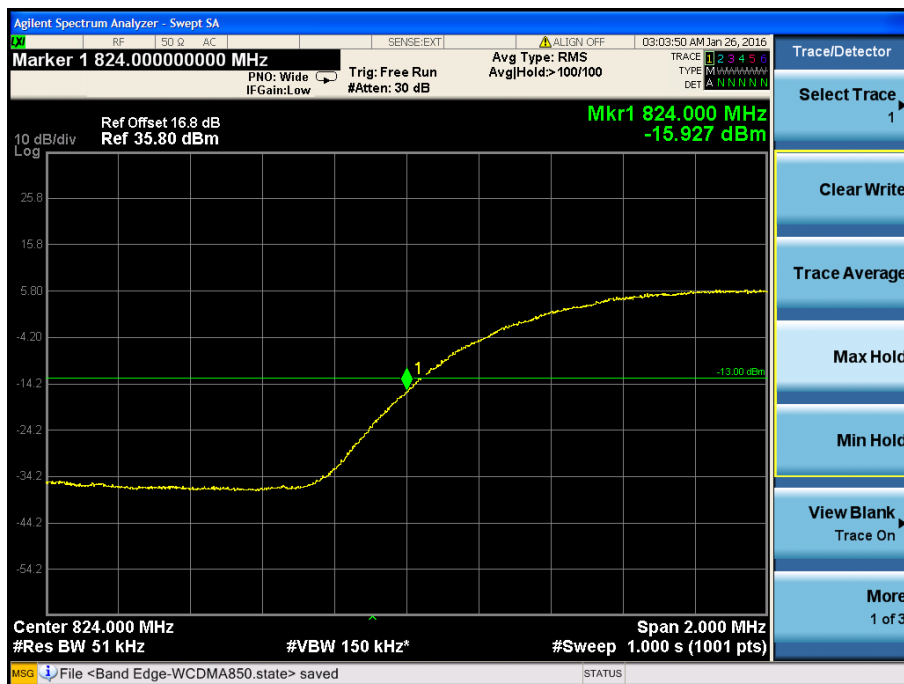
5.1.2.2.2 Test Channel = HCH

5.2 For WCDMA

5.2.1 Test Band = WCDMA 850

5.2.1.1　　Test Mode = UMTS/TM1

5.2.1.1.1 Test Channel = LCH
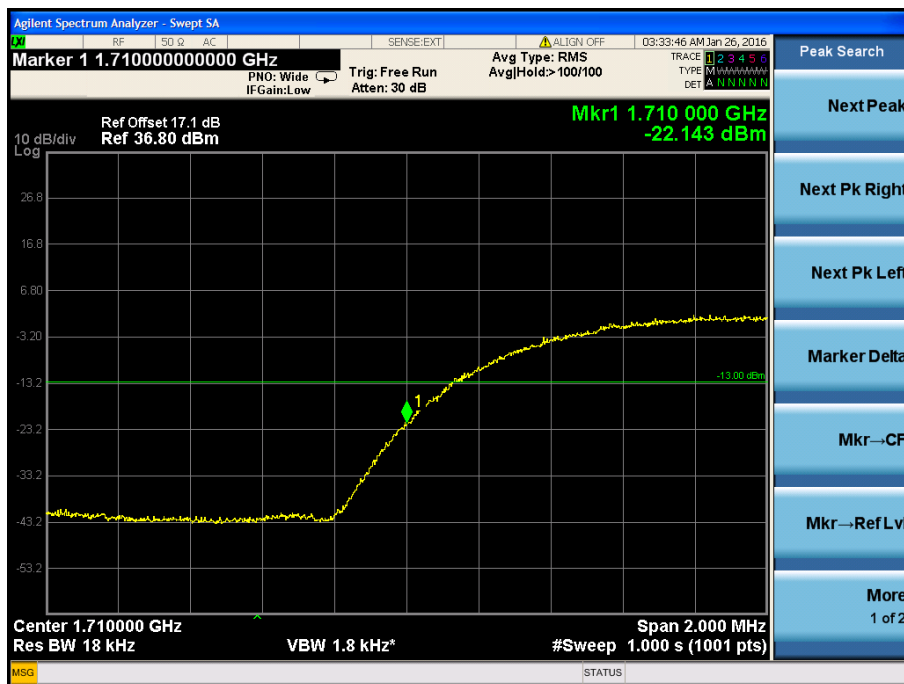
5.2.1.1.2 Test Channel = HCH

5.2.2 Test Band = WCDMA 1700

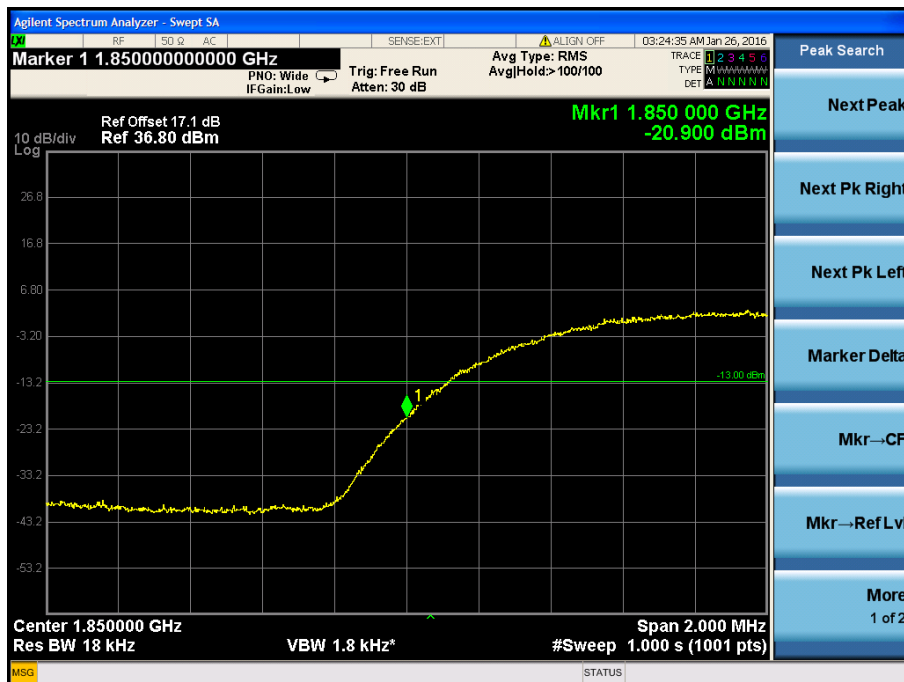### 5.2.2.1   Test Mode = UMTS/TM1

5.2.2.1.1 Test Channel = LCH

5.2.2.1.2 Test Channel = HCH

5.2.3 Test Band = WCDMA 1900

5.2.3.1 Test Mode = UMTS/TM1

5.2.3.1.1 Test Channel = LCH

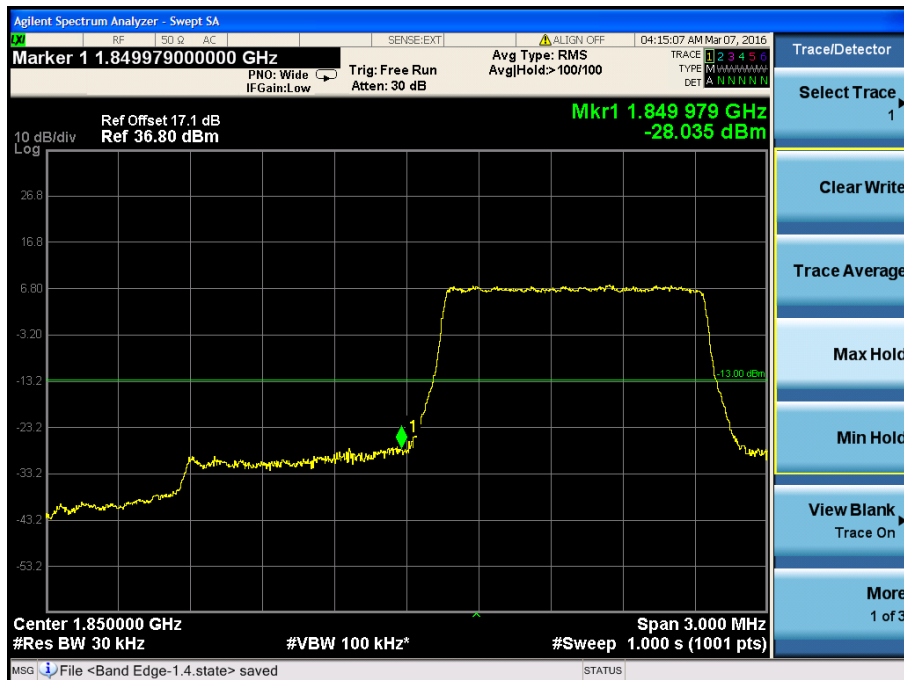### 5.2.3.1.2 Test Channel = HCH

5.3 For LTE

5.3.1 Test Band = LTE B2

5.3.1.1   Test Mode = LTE/TM1 1.4MHz
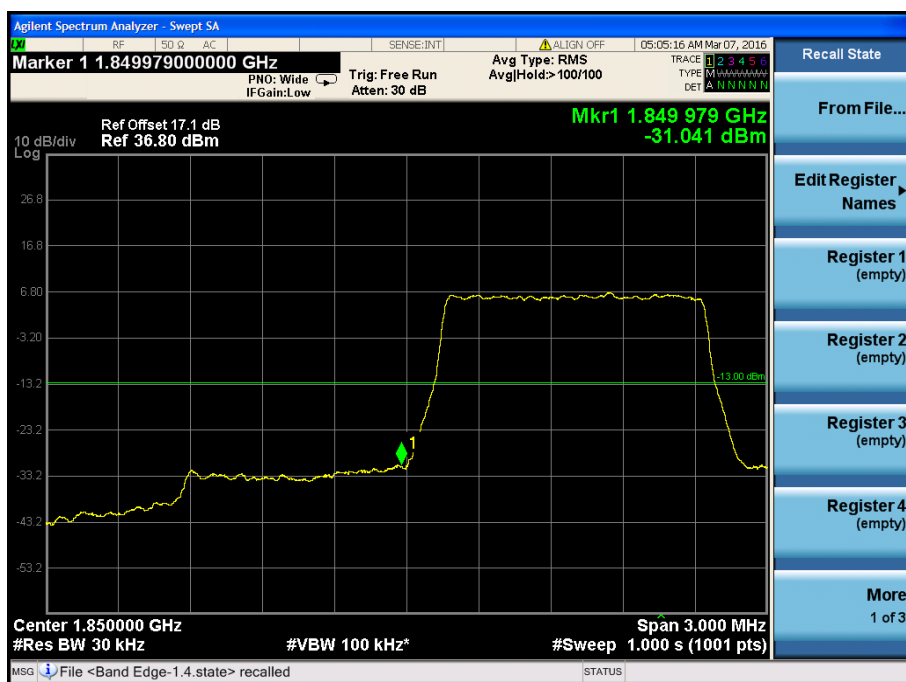
5.3.1.1.1 Test Channel = LCH

5.3.1.1.2 Test Channel = HCH

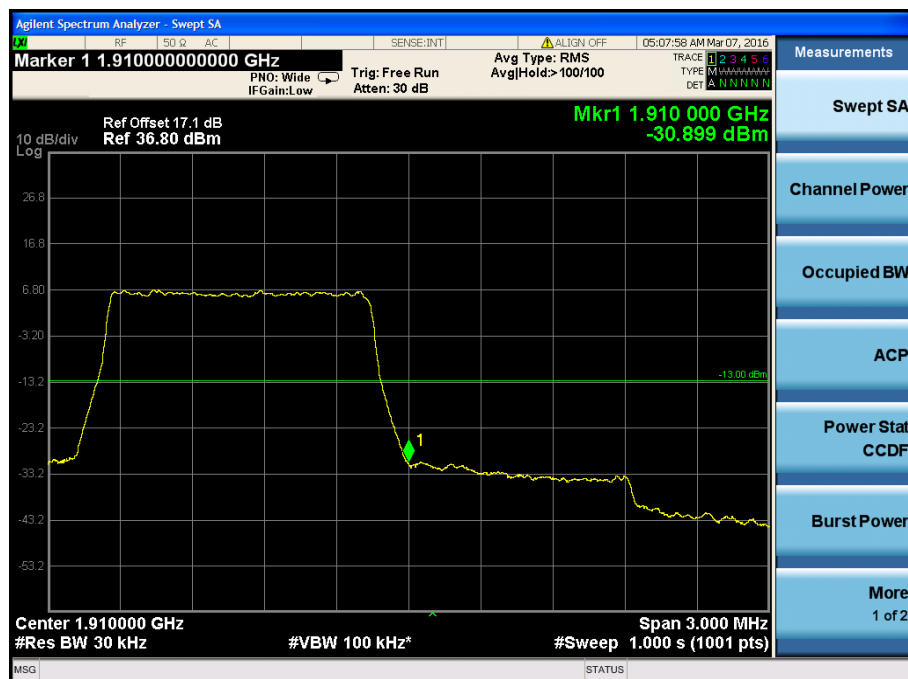## 5.3.1.2 Test Mode = LTE/TM2 1.4MHz

5.3.1.2.1 Test Channel = LCH

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5.3.1.2.2 Test Channel = HCH
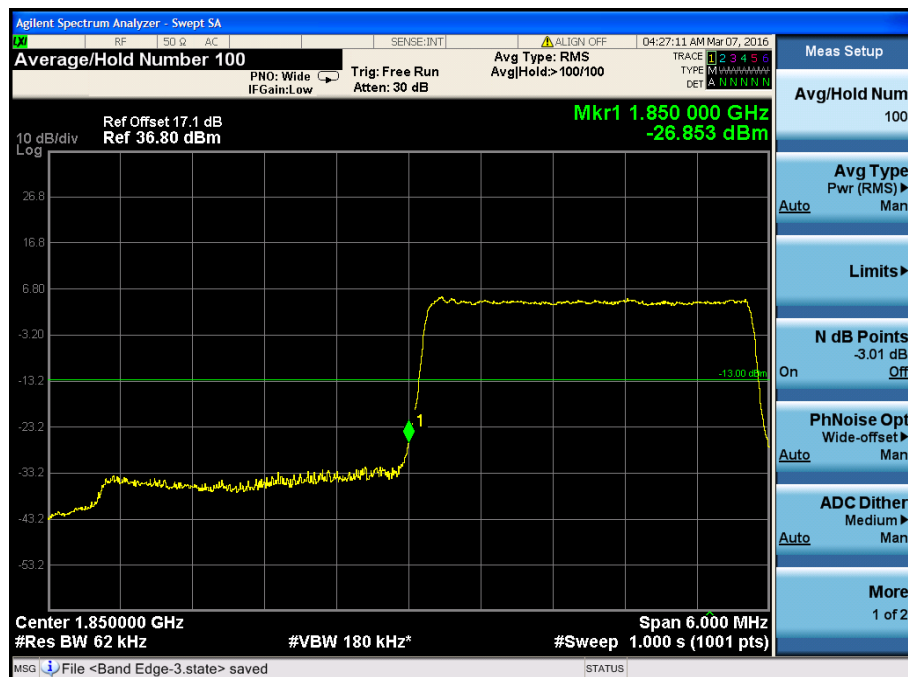

5.3.1.3   Test Mode = LTE/TM1 3MHz

5.3.1.3.1 Test Channel = LCH
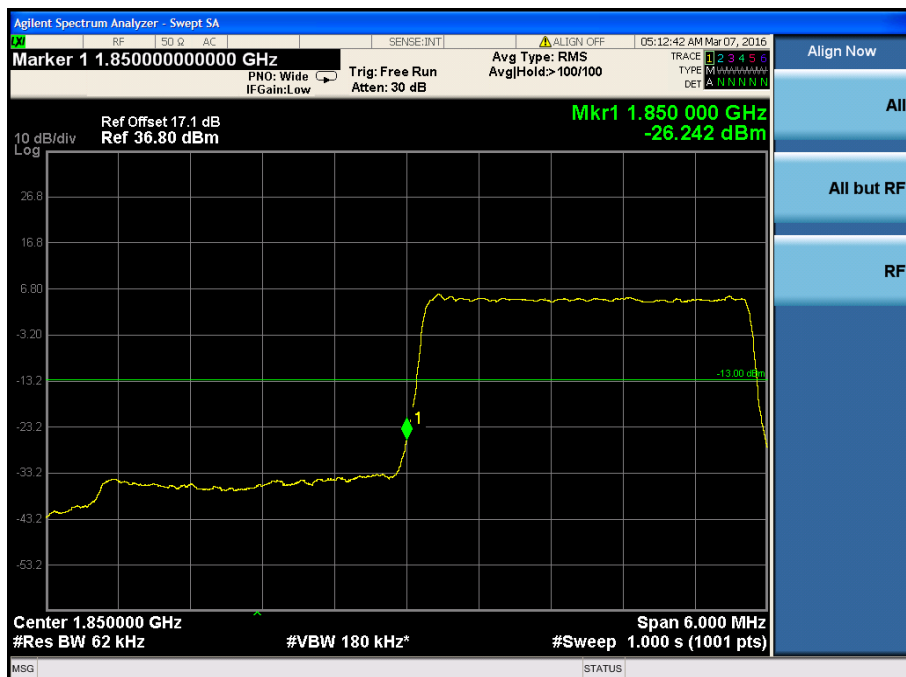
5.3.1.3.2 Test Channel = HCH
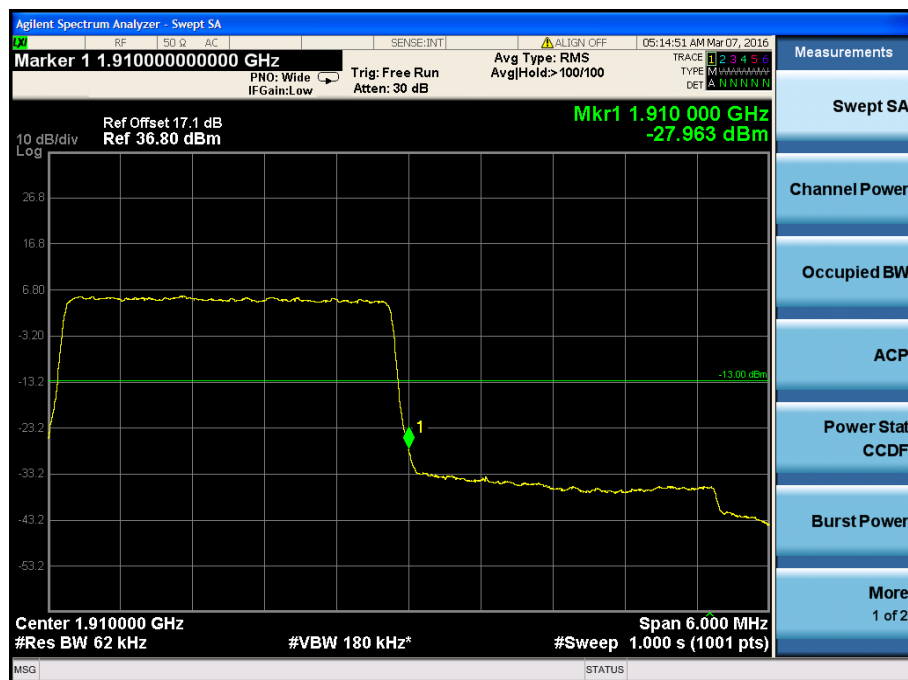

5.3.1.4   Test Mode = LTE/TM2 3MHz

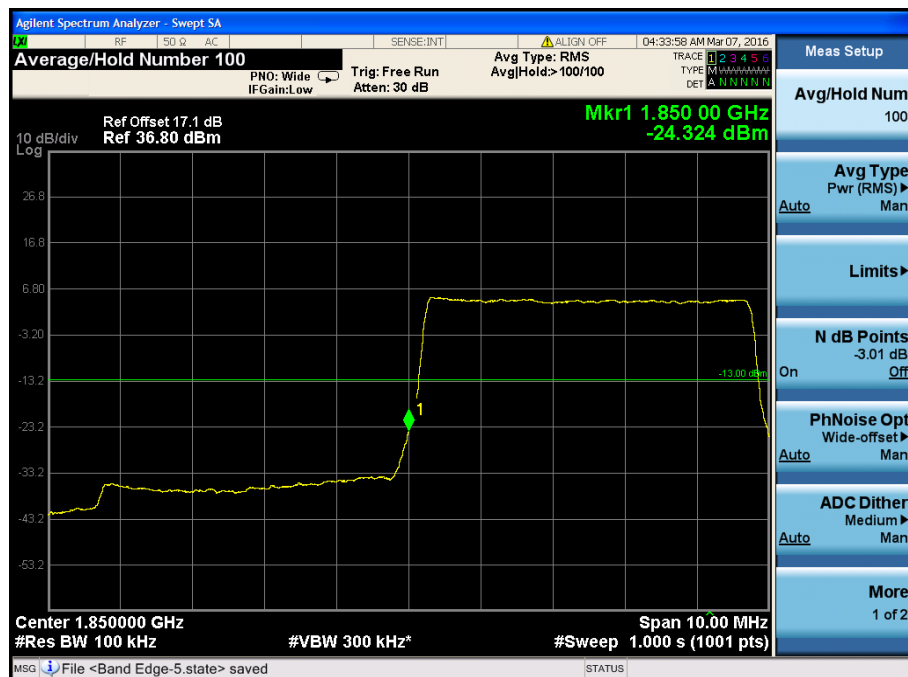### 5.3.1.4.1 Test Channel = LCH

5.3.1.4.2 Test Channel = HCH

5.3.1.5   Test Mode = LTE/TM1 5MHz

5.3.1.5.1 Test Channel = LCH

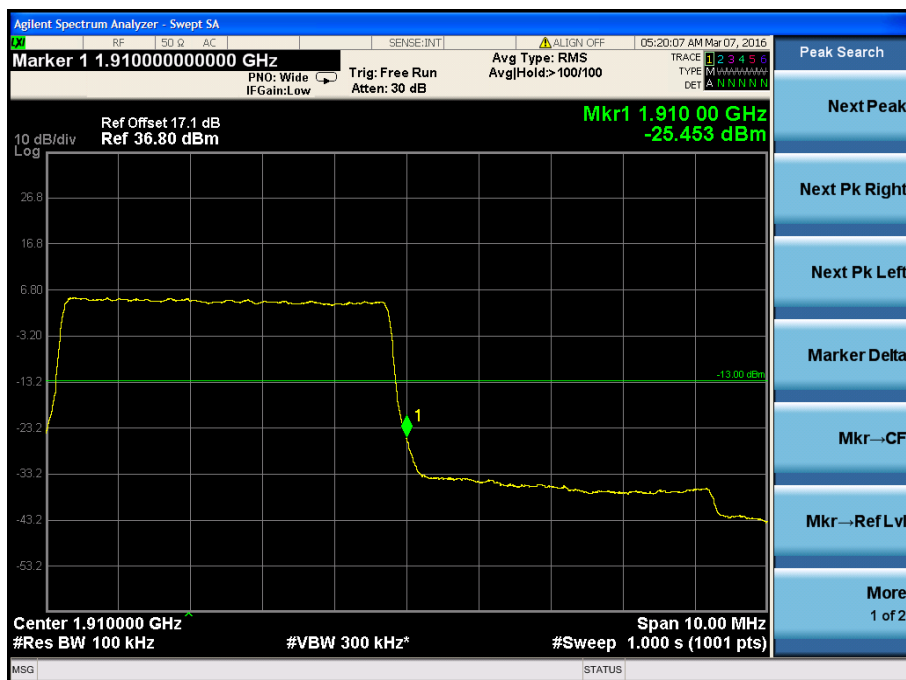## 5.3.1.5.2 Test Channel = HCH

5.3.1.6   Test Mode = LTE/TM2 5MHz
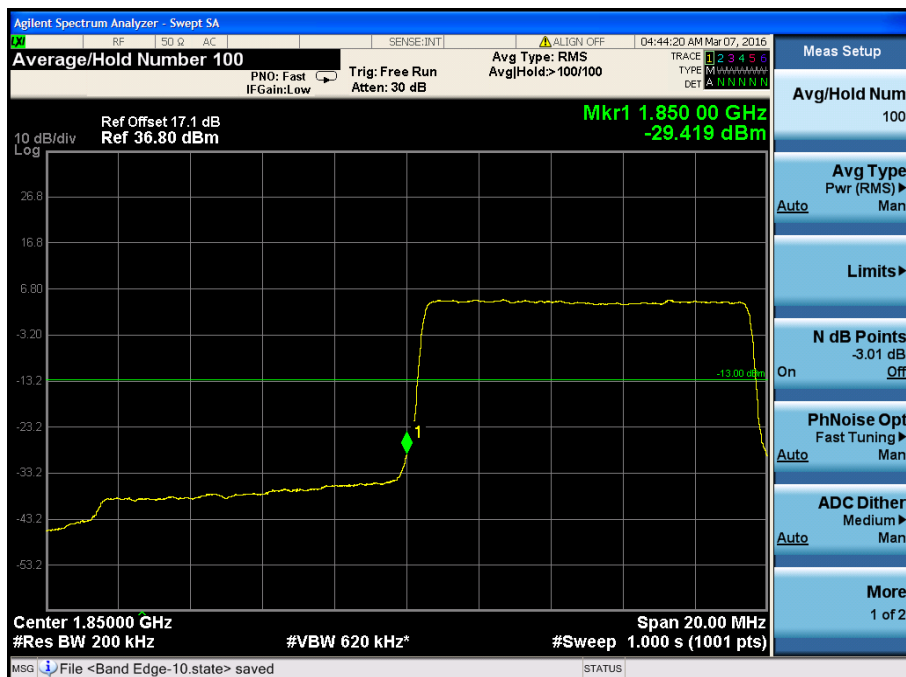
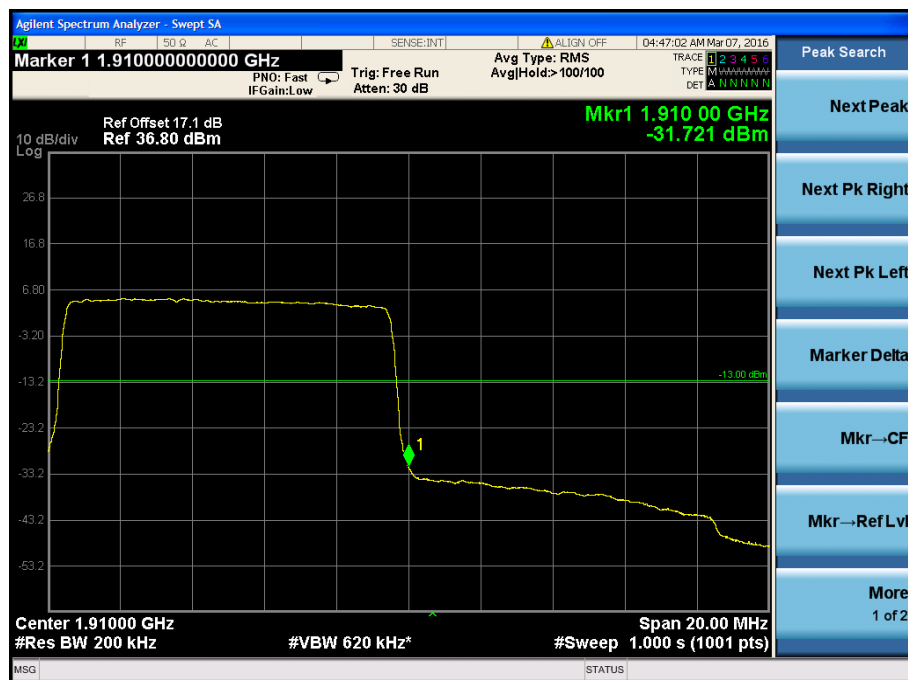## 5.3.1.6.1 Test Channel = LCH

5.3.1.6.2 Test Channel = HCH

5.3.1.7   Test Mode = LTE/TM1 10MHz

5.3.1.7.1 Test Channel = LCH

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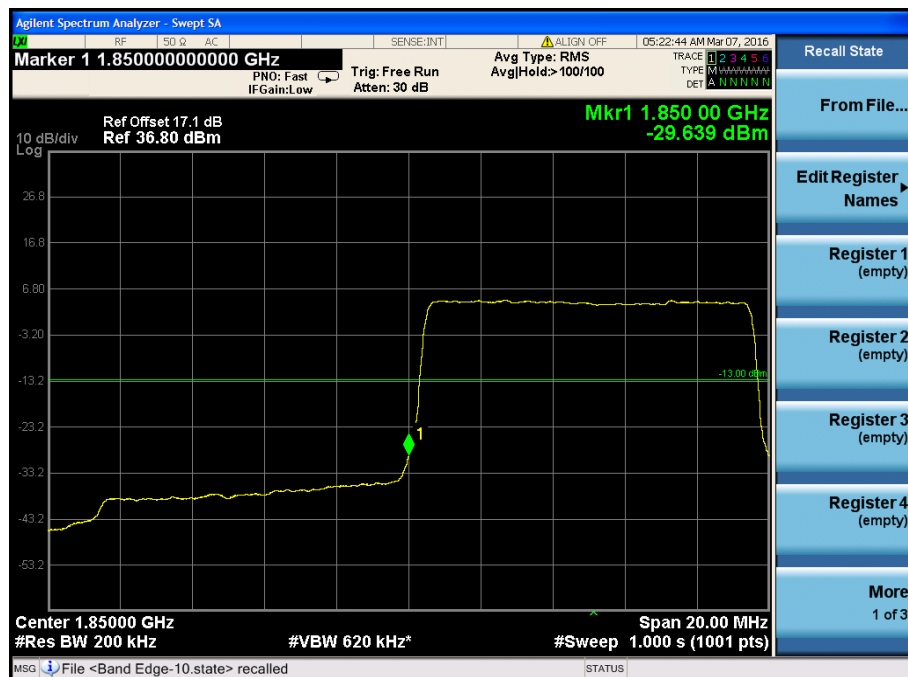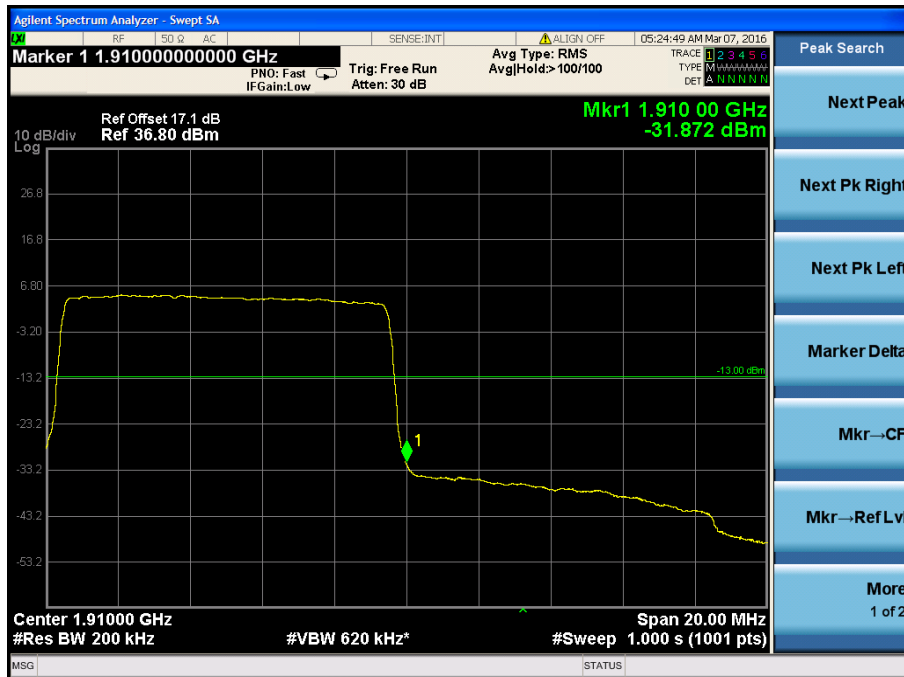
5.3.1.7.2 Test Channel = HCH

5.3.1.8 Test Mode = LTE/TM2 10MHz

5.3.1.8.1 Test Channel = LCH

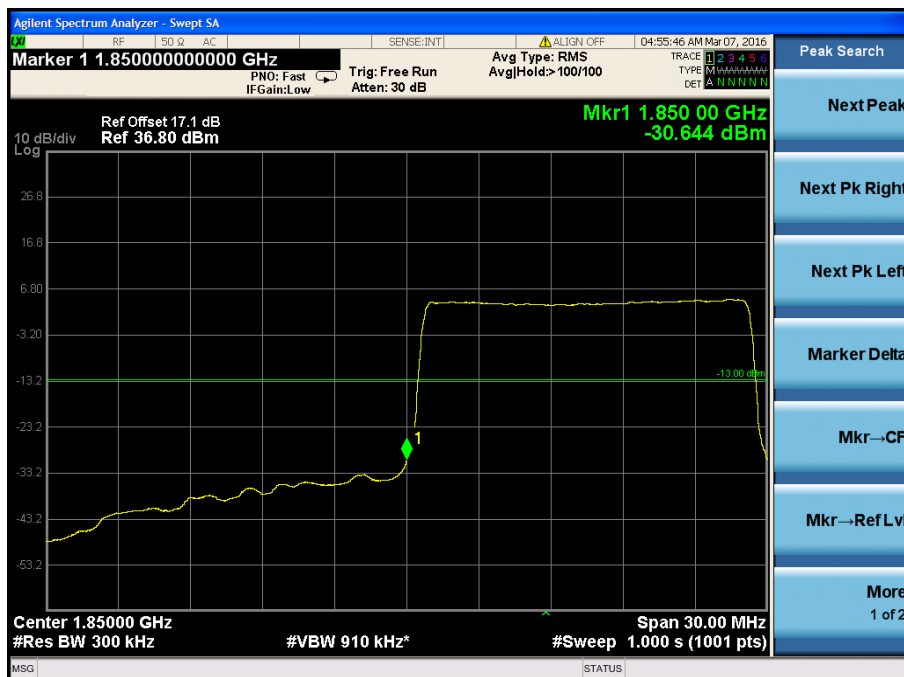# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

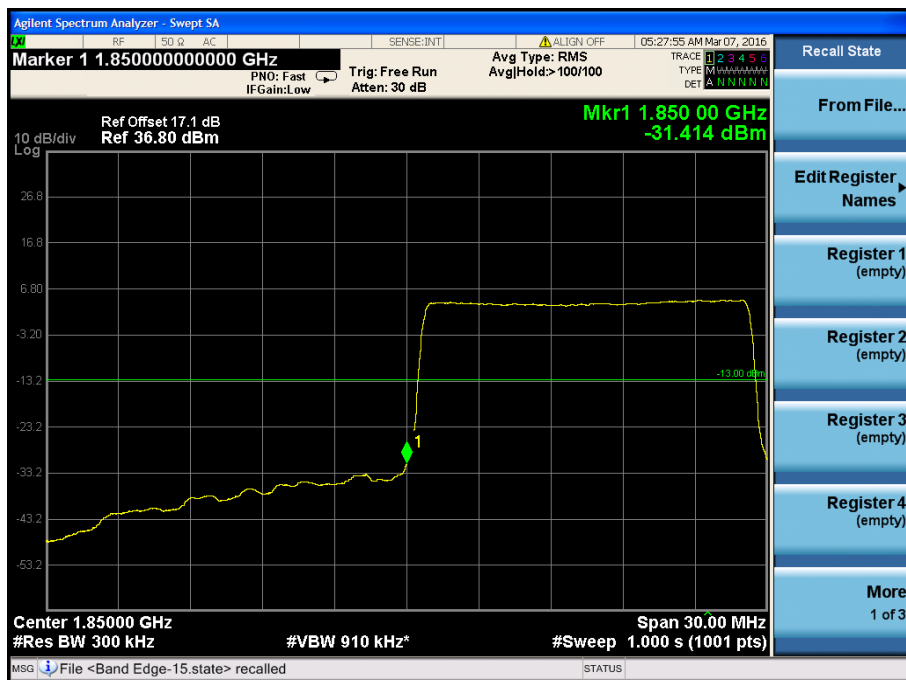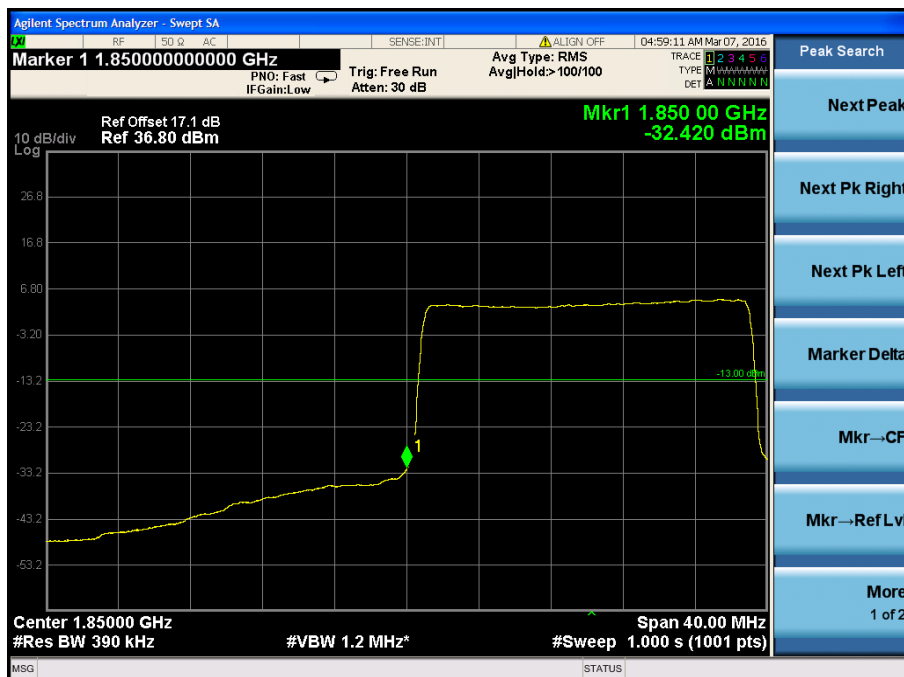## 5.3.1.8.2 Test Channel = HCH

5.3.1.9 Test Mode = LTE/TM1 15MHz

5.3.1.9.1 Test Channel = LCH

5.3.1.9.2 Test Channel = HCH

5.3.1.10   Test Mode = LTE/TM2 15MHz

5.3.1.10.1Test Channel = LCH

5.3.1.10.2 Test Channel = HCH

5.3.1.11 Test Mode = LTE/TM1 20MHz
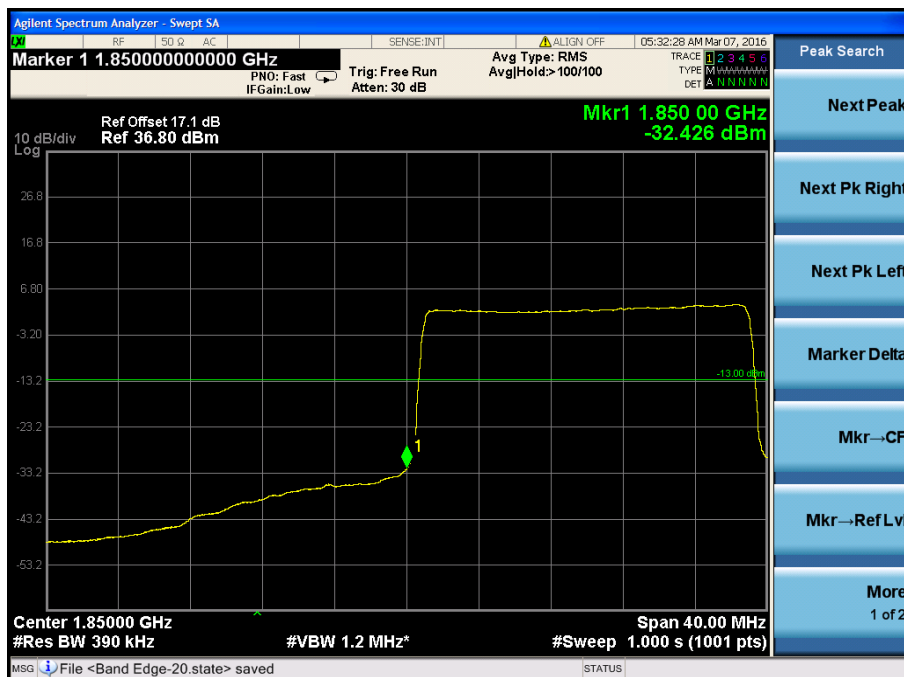
5.3.1.11.1 Test Channel = LCH

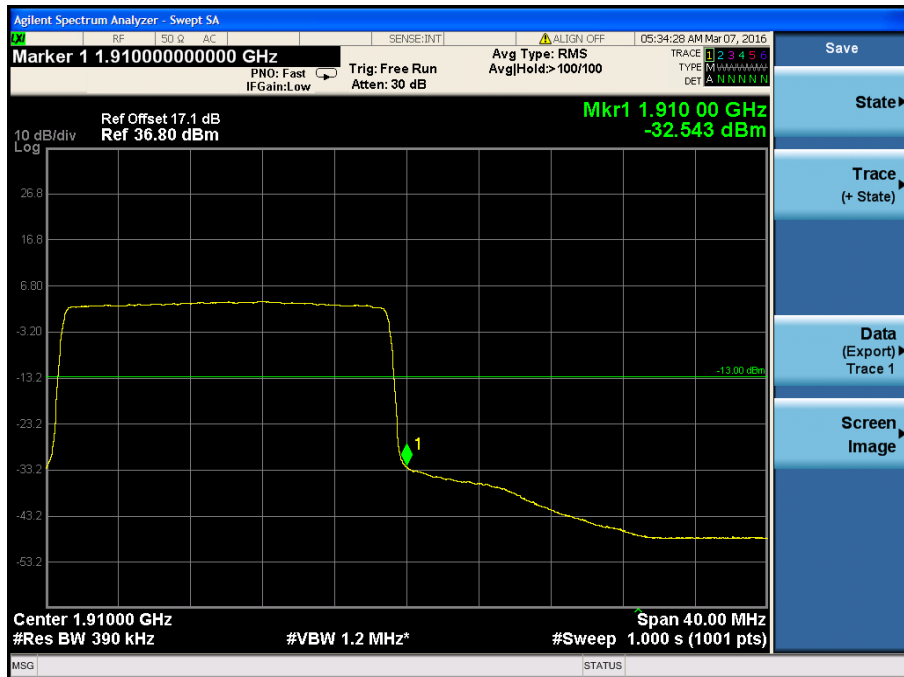### 5.3.1.11.2 Test Channel = HCH

5.3.1.12   Test Mode = LTE/TM2 20MHz

5.3.1.12.1 Test Channel = LCH

5.3.1.12.2 Test Channel = HCH

5.3.2 Test Band = LTE B4

5.3.2.1 Test Mode = LTE/TM1 1.4MHz

5.3.2.1.1 Test Channel = LCH
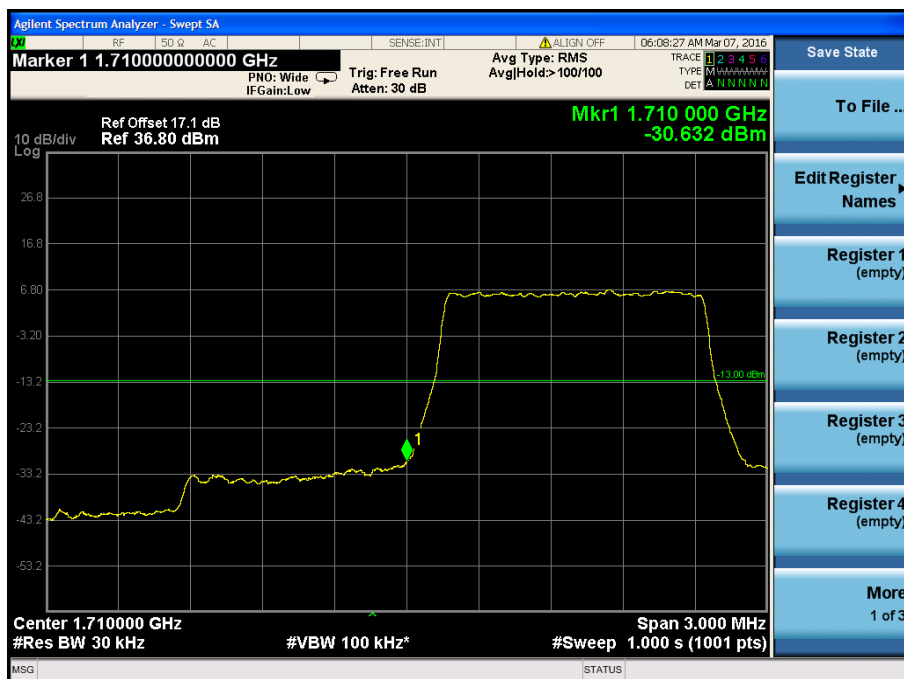
5.3.2.1.2 Test Channel = HCH

5.3.2.2   Test Mode = LTE/TM2 1.4MHz

5.3.2.2.1 Test Channel = LCH

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5.3.2.2.2 Test Channel = HCH

5.3.2.3   Test Mode = LTE/TM1 3MHz

5.3.2.3.1 Test Channel = LCH

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5.3.2.3.2 Test Channel = HCH

5.3.2.4   Test Mode = LTE/TM2 3MHz

5.3.2.4.1 Test Channel = LCH

5.3.2.4.2 Test Channel = HCH

5.3.2.5 Test Mode = LTE/TM1 5MHz

5.3.2.5.1 Test Channel = LCH

5.3.2.5.2 Test Channel = HCH

5.3.2.6   Test Mode = LTE/TM2 5MHz

5.3.2.6.1 Test Channel = LCH

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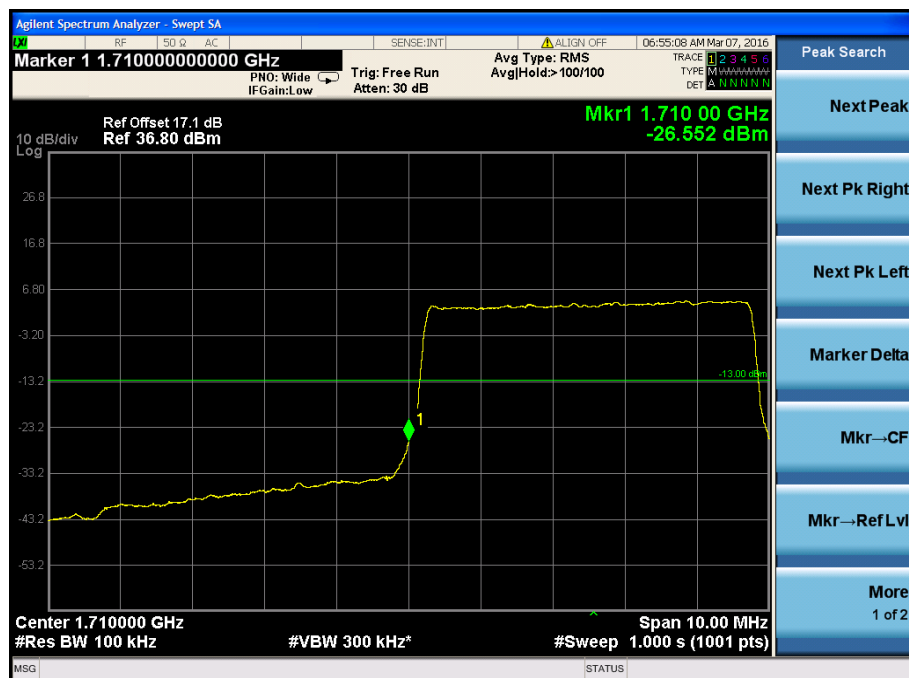
5.3.2.6.2 Test Channel = HCH
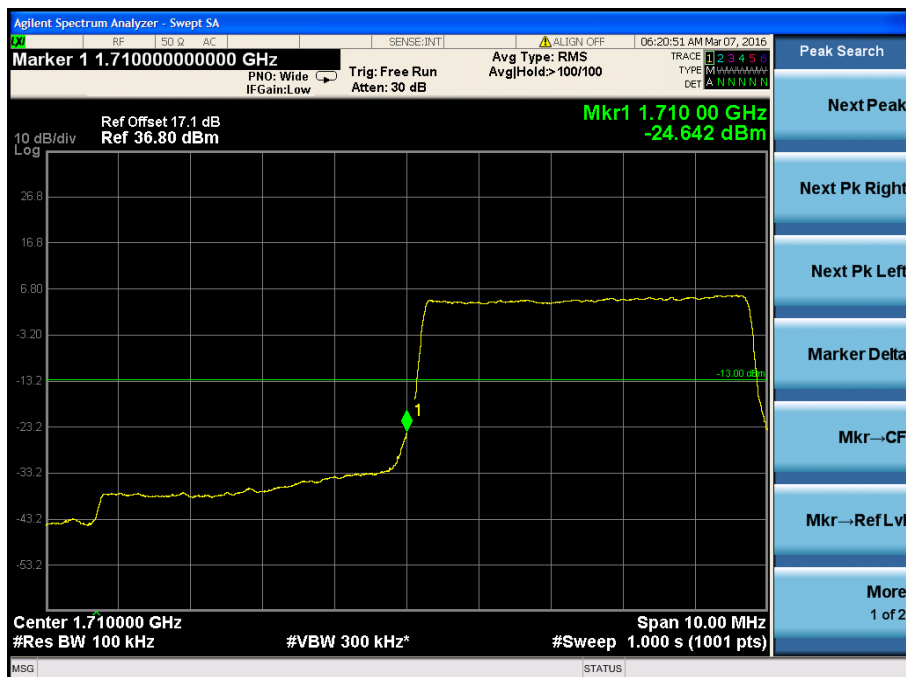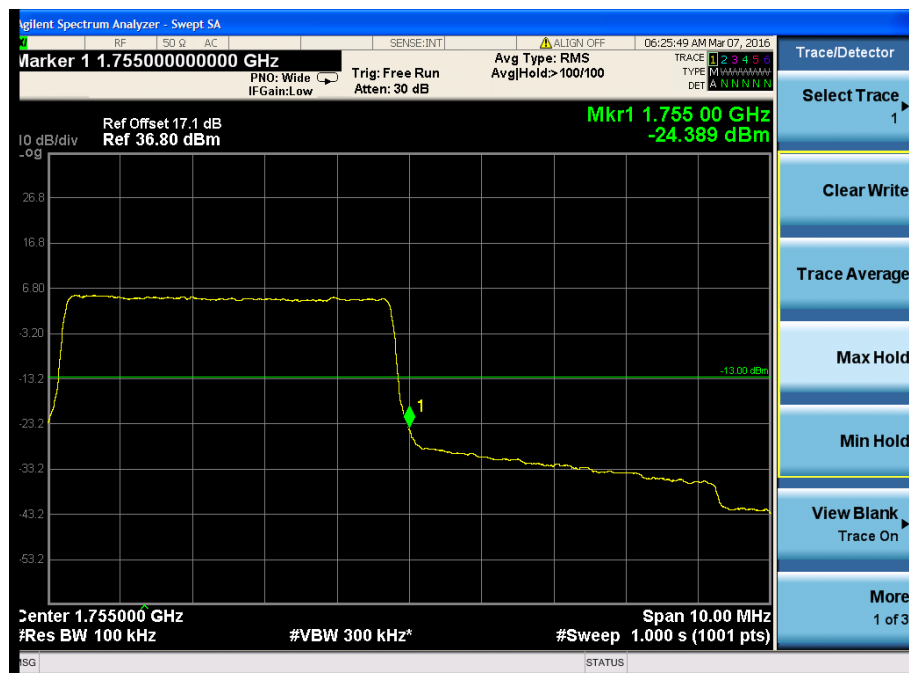

5.3.2.7   Test Mode = LTE/TM1 10MHz

5.3.2.7.1 Test Channel = LCH

5.3.2.7.2 Test Channel = HCH

5.3.2.8   Test Mode = LTE/TM2 10MHz

5.3.2.8.1 Test Channel = LCH

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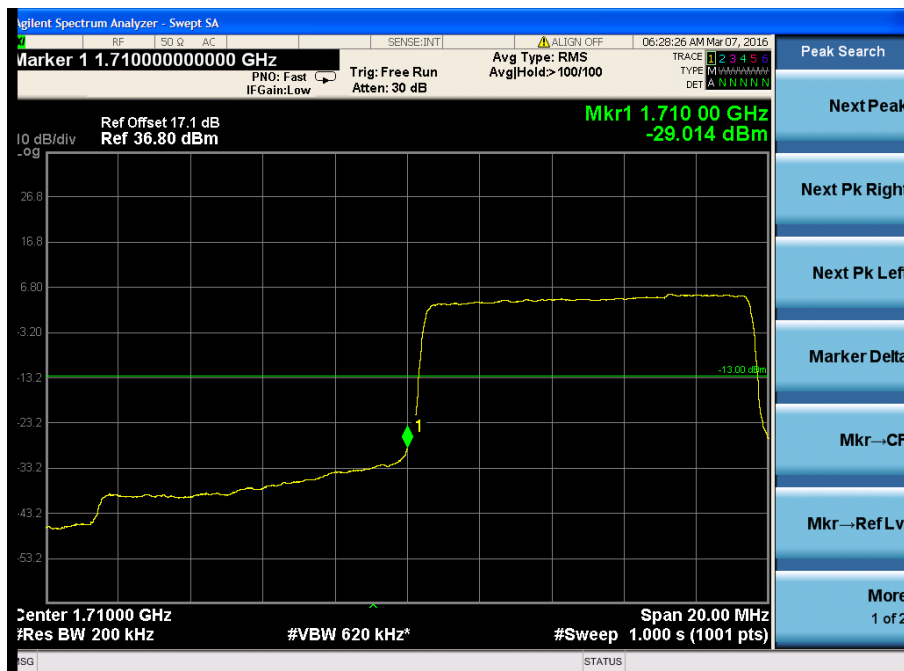Shenzhen Branch**
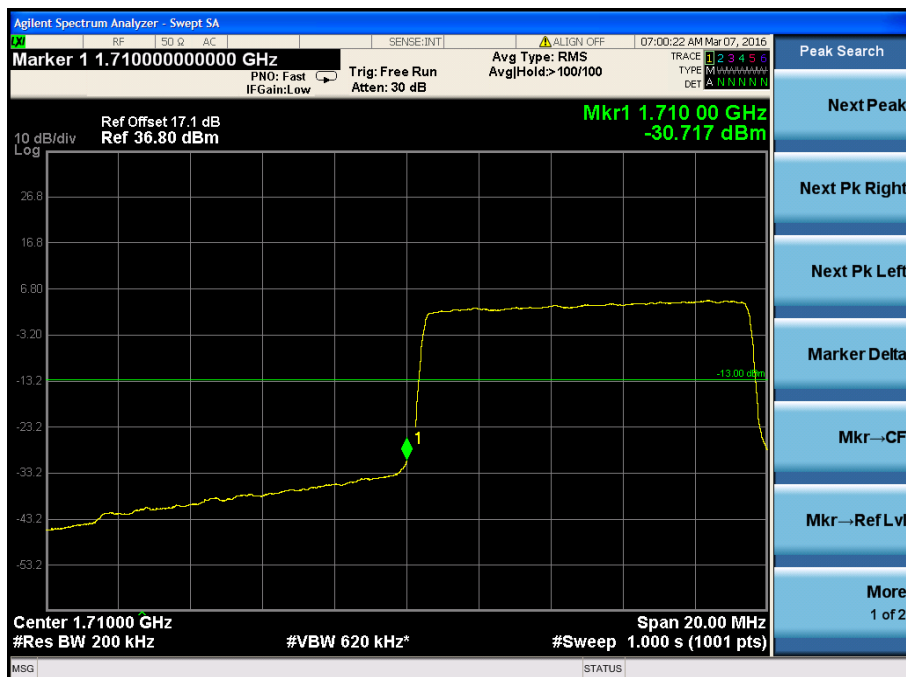
5.3.2.8.2 Test Channel = HCH

5.3.2.9   Test Mode = LTE/TM1 15MHz

5.3.2.9.1 Test Channel = LCH

5.3.2.9.2 Test Channel = HCH

5.3.2.10 Test Mode = LTE/TM2 15MHz

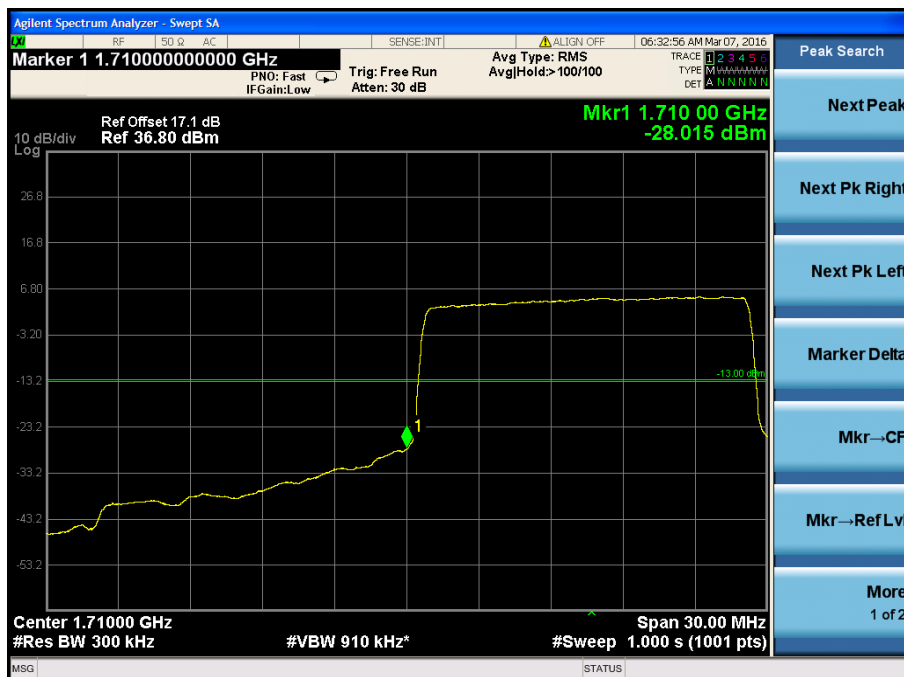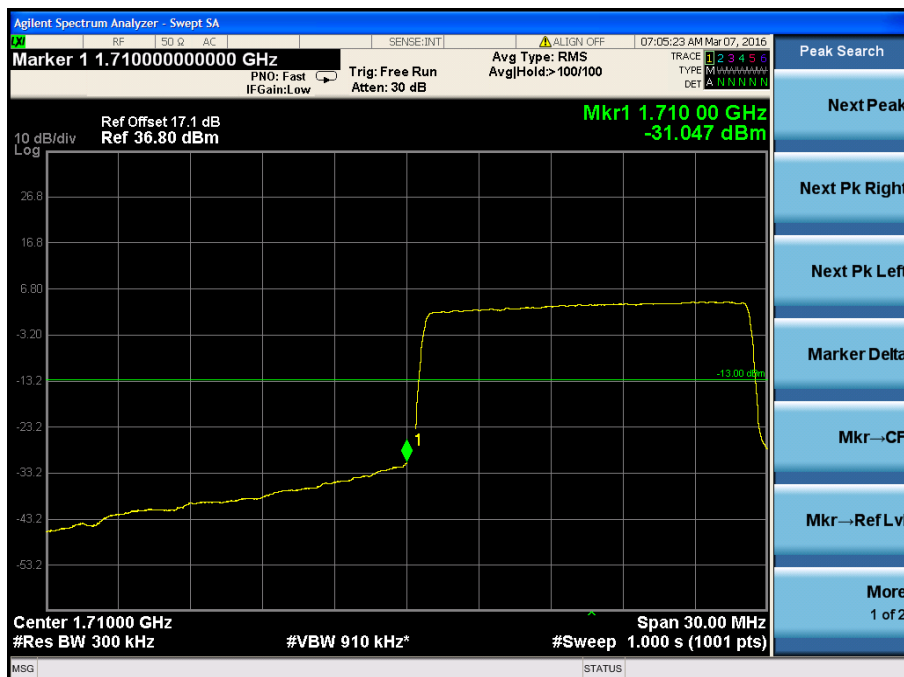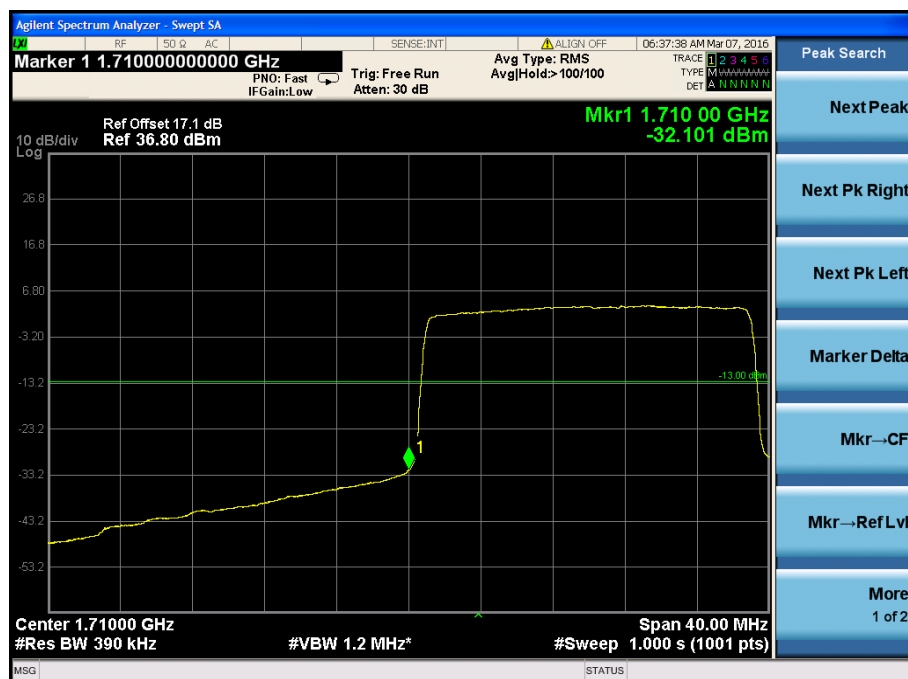### 5.3.2.10.1 Test Channel = LCH

5.3.2.10.2 Test Channel = HCH

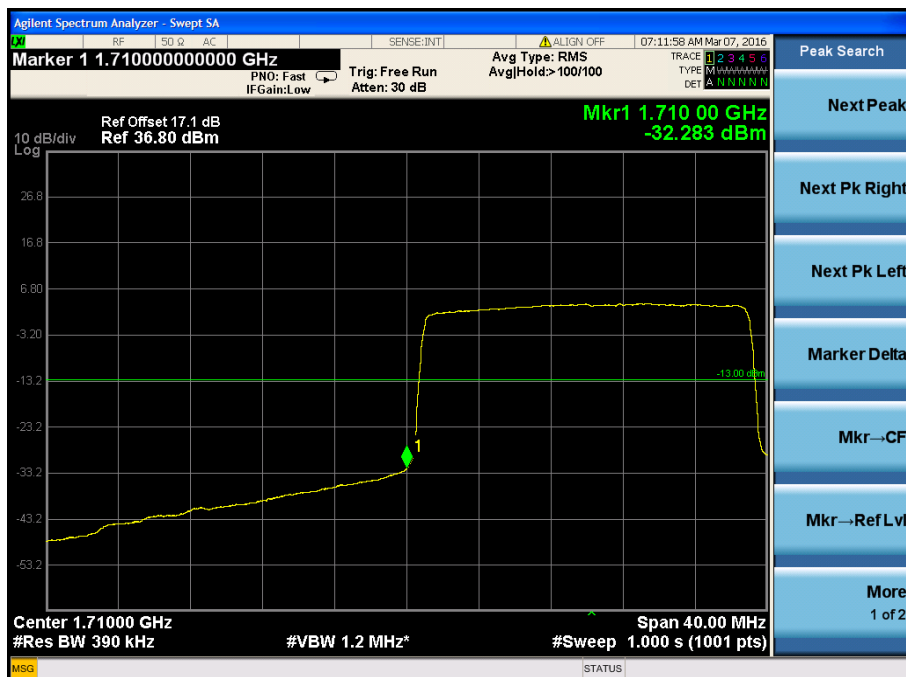### 5.3.2.11 Test Mode = LTE/TM1 20MHz
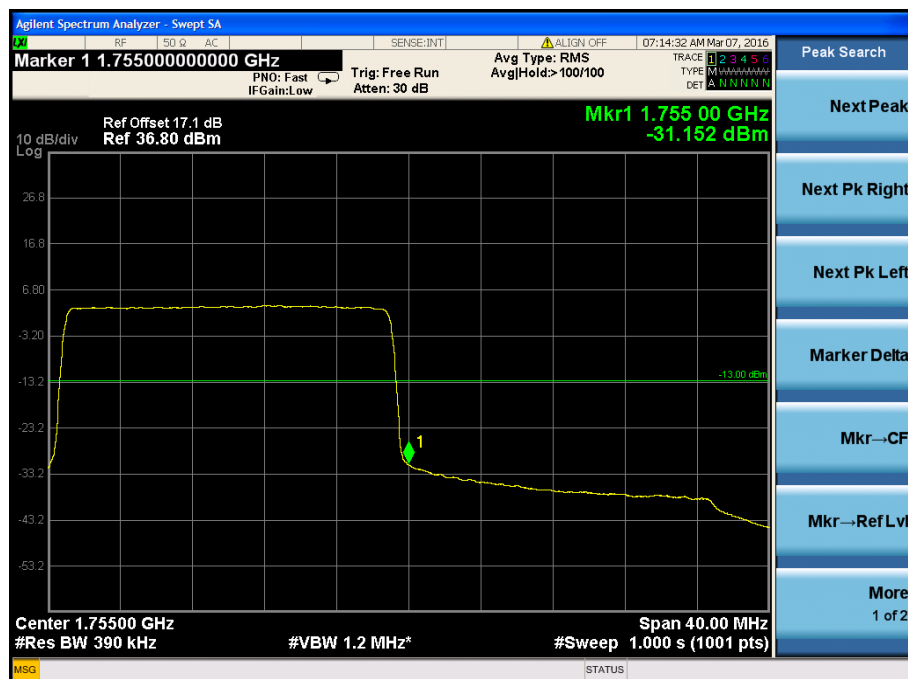
5.3.2.11.1 Test Channel = LCH

5.3.2.11.2 Test Channel = HCH

5.3.2.12   Test Mode = LTE/TM2 20MHz

5.3.2.12.1 Test Channel = LCH

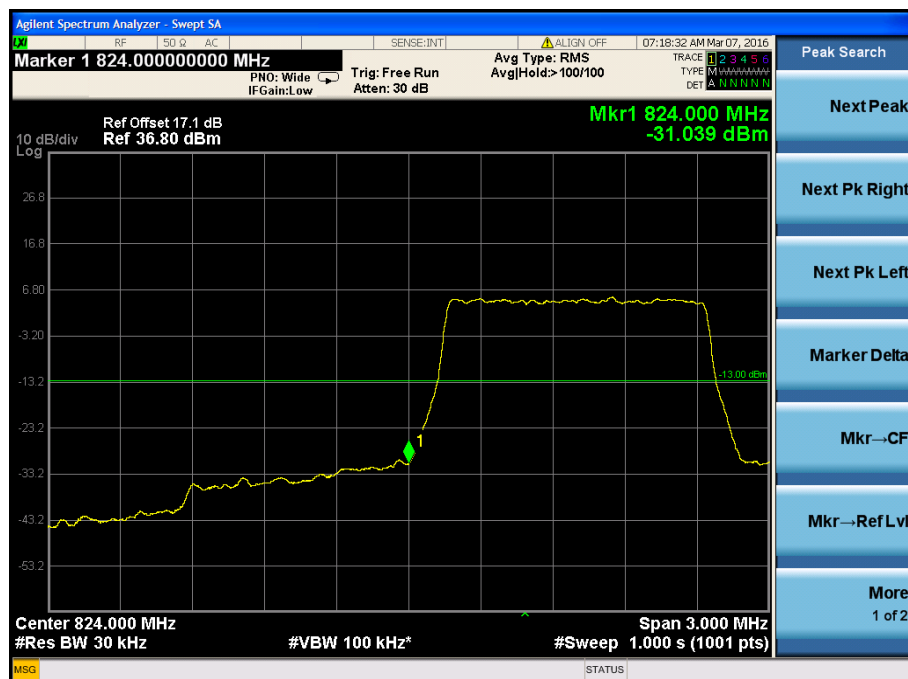**SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch**

5.3.2.12.2 Test Channel = HCH

5.3.3 Test Band = LTE B5

5.3.3.1   Test Mode = LTE/TM1 1.4MHz

5.3.3.1.1 Test Channel = LCH

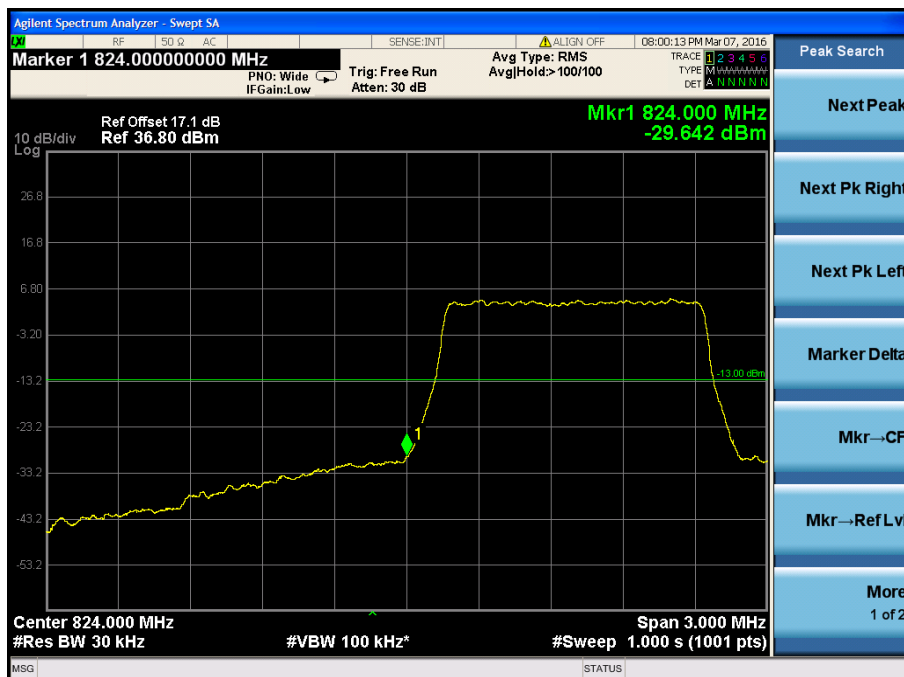# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

5.3.3.1.2 Test Channel = HCH

5.3.3.2 Test Mode = LTE/TM2 1.4MHz

5.3.3.2.1 Test Channel = LCH
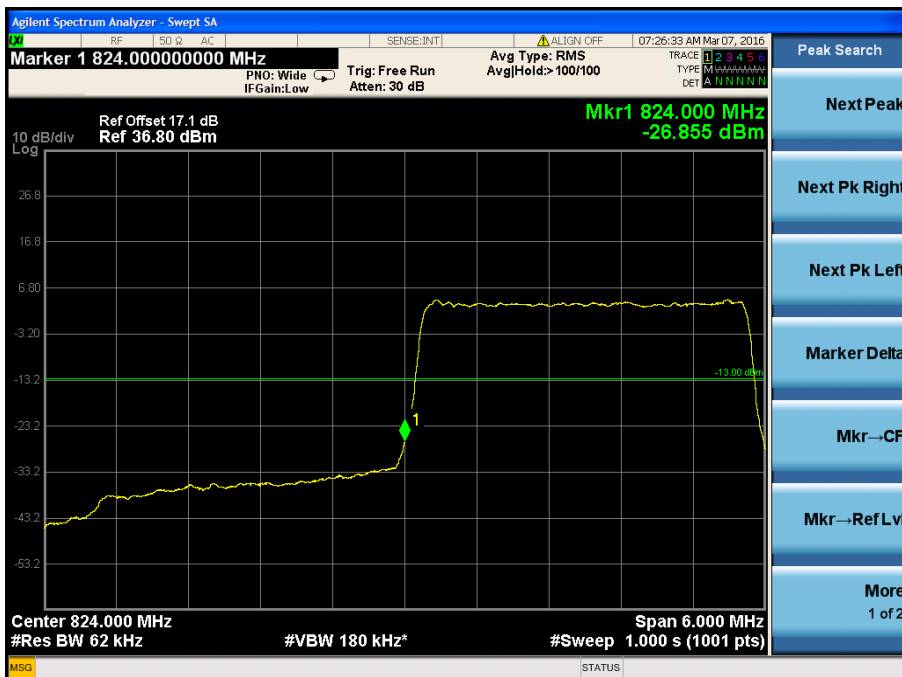
5.3.3.2.2 Test Channel = HCH

5.3.3.3   Test Mode = LTE/TM1 3MHz

5.3.3.3.1 Test Channel = LCH
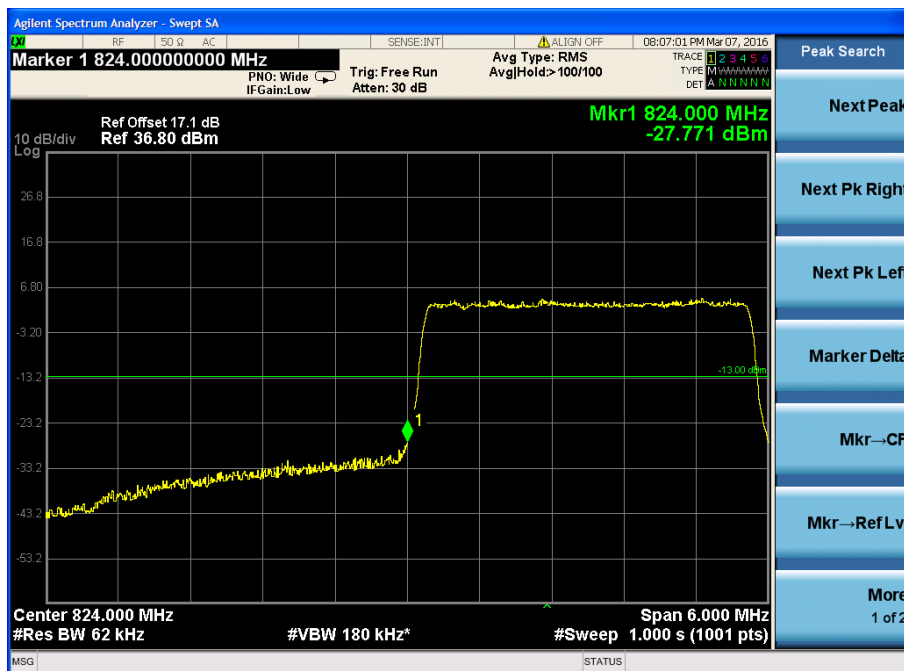
5.3.3.3.2 Test Channel = HCH

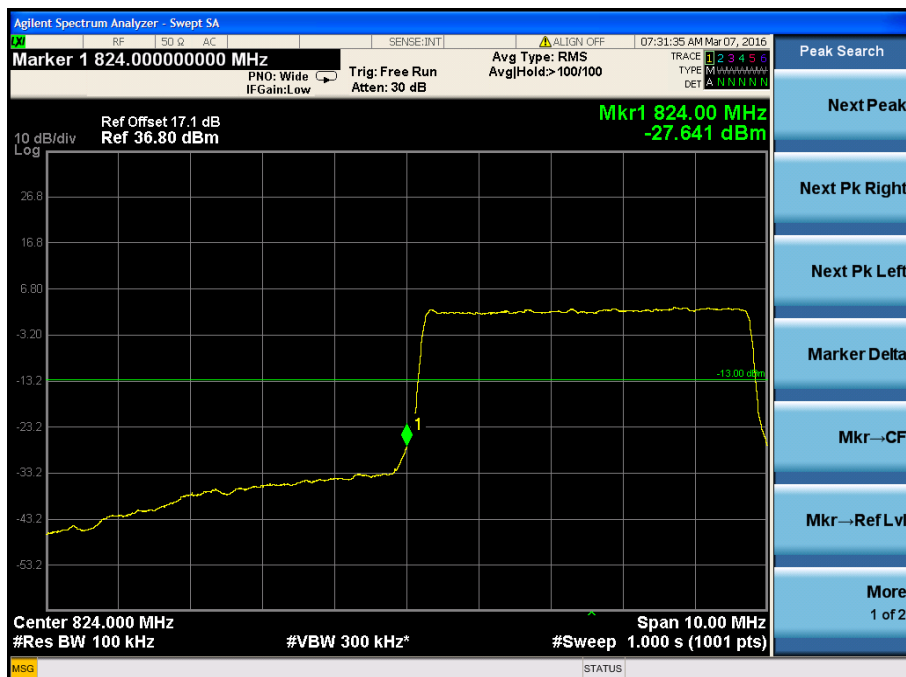## 5.3.3.4   Test Mode = LTE/TM2 3MHz

5.3.3.4.1 Test Channel = LCH

5.3.3.4.2 Test Channel = HCH
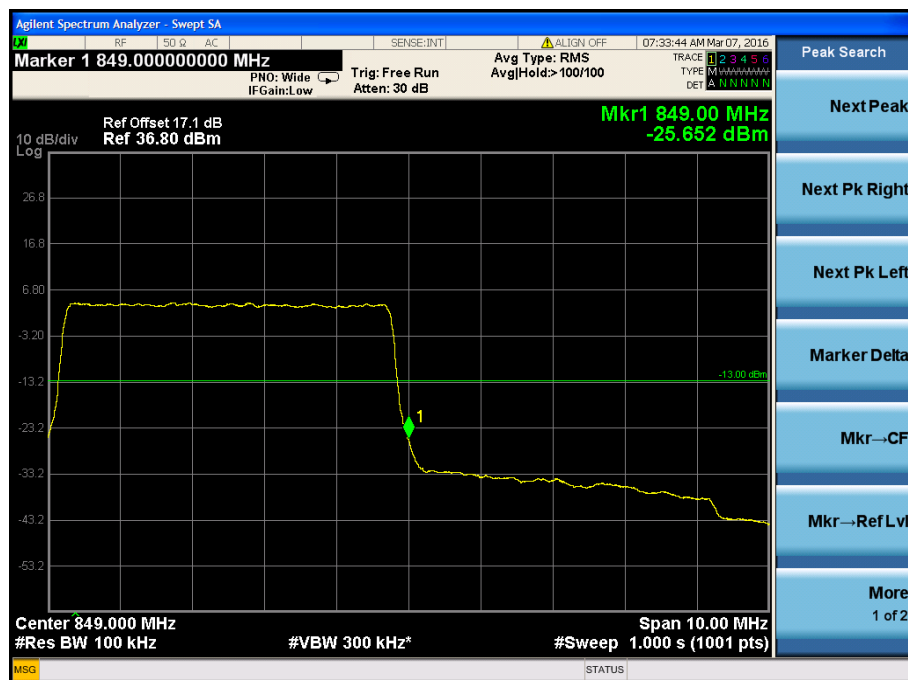

5.3.3.5   Test Mode = LTE/TM1 5MHz

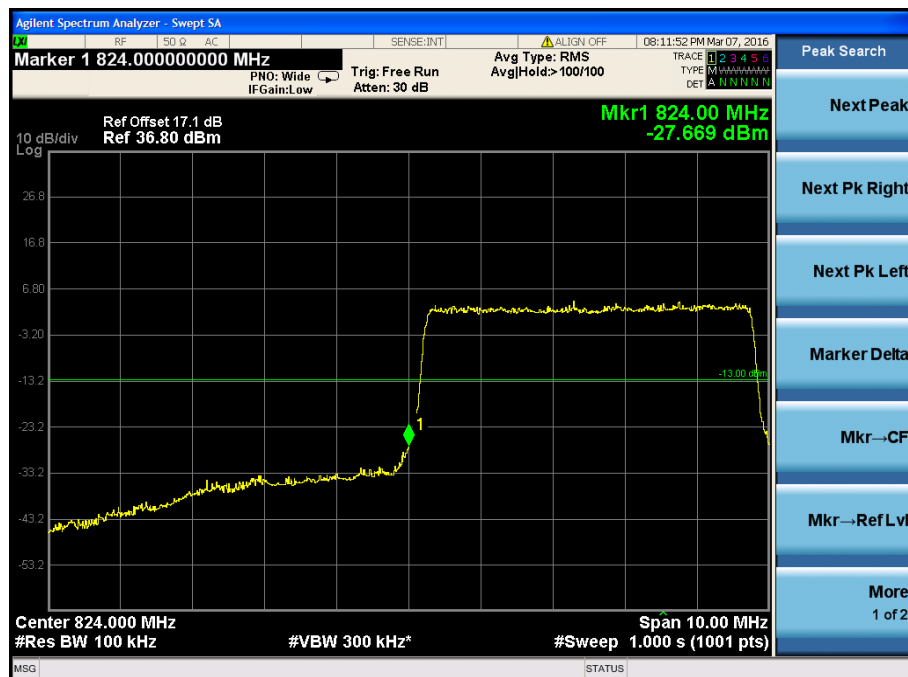### 5.3.3.5.1 Test Channel = LCH

5.3.3.5.2 Test Channel = HCH

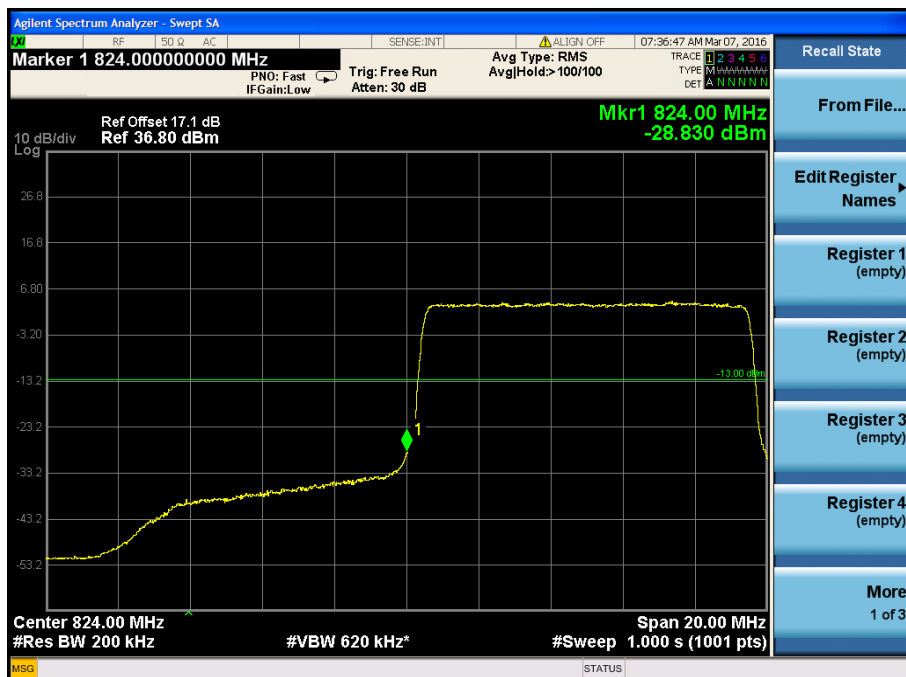## 5.3.3.6   Test Mode = LTE/TM2 5MHz

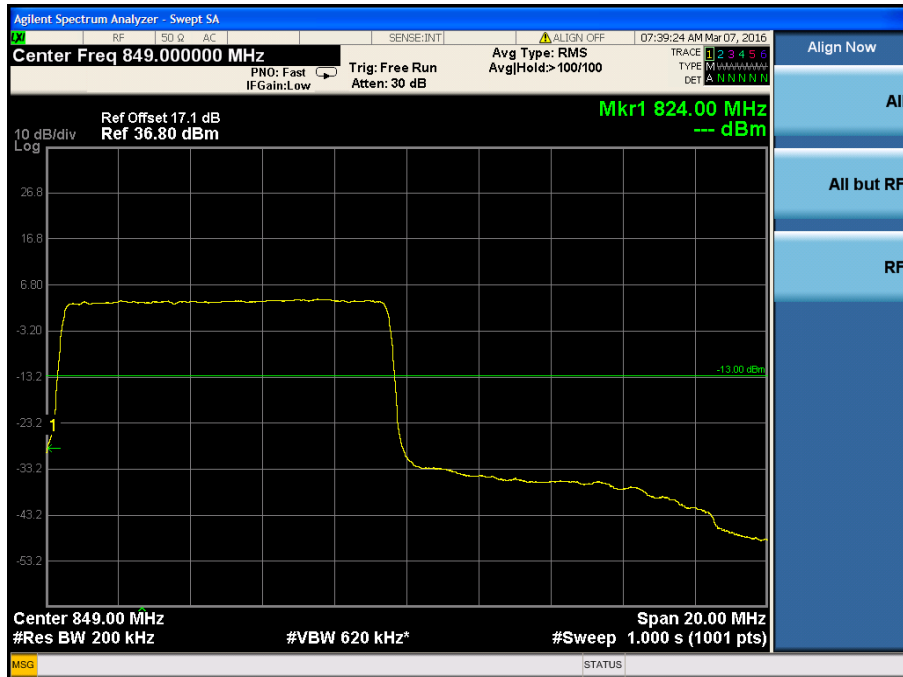## 5.3.3.6.1 Test Channel = LCH

5.3.3.6.2 Test Channel = HCH

5.3.3.7 Test Mode = LTE/TM1 10MHz

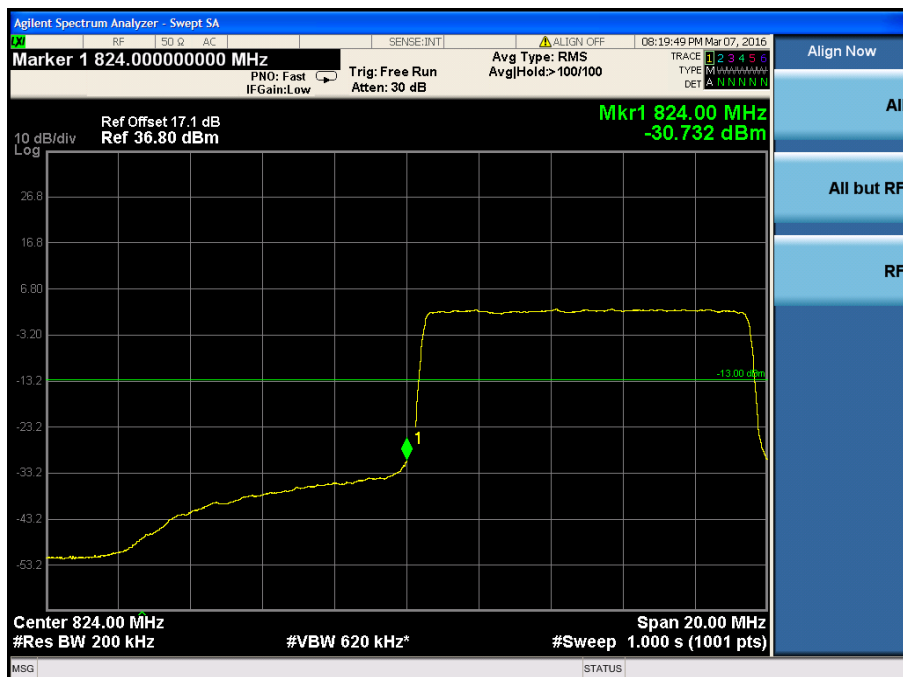### 5.3.3.7.1 Test Channel = LCH

5.3.3.7.2 Test Channel = HCH

5.3.3.8   Test Mode = LTE/TM2 10MHz

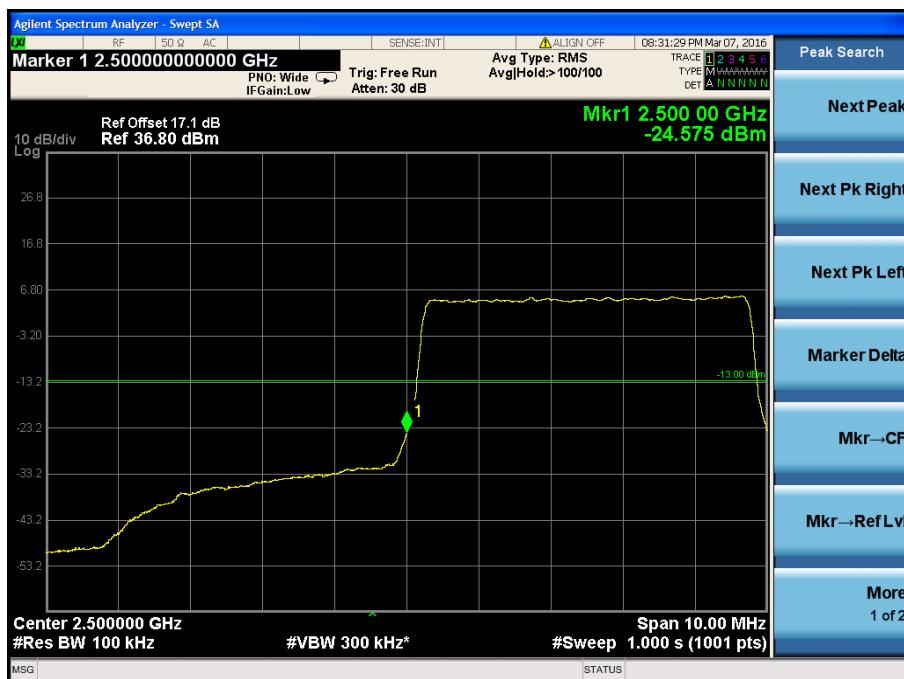### 5.3.3.8.1 Test Channel = LCH

5.3.3.8.2 Test Channel = HCH

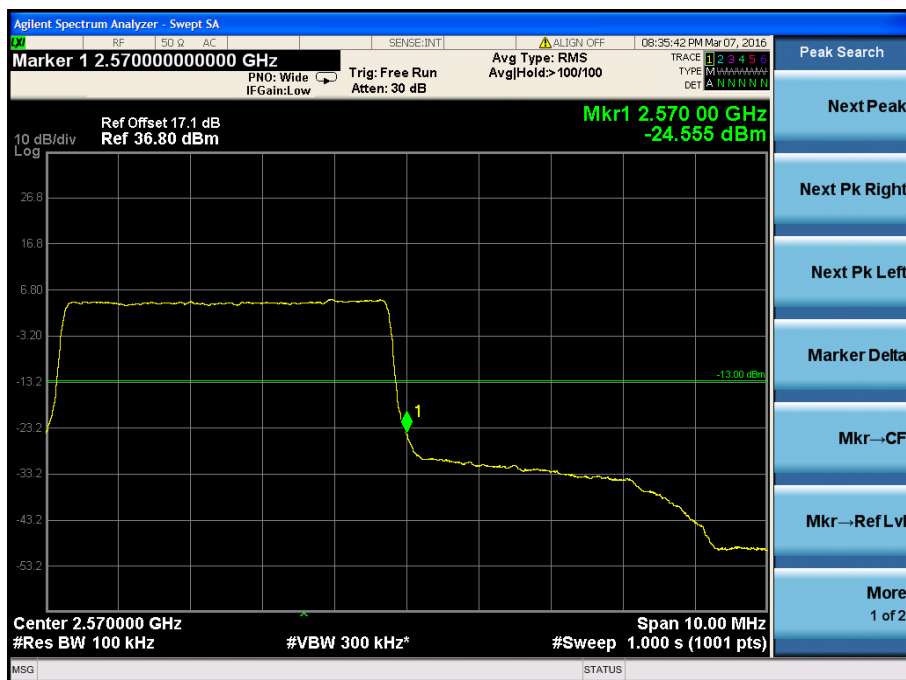## 5.3.4 Test Band = LTE B7

5.3.4.1 Test Mode = LTE/TM1 5MHz

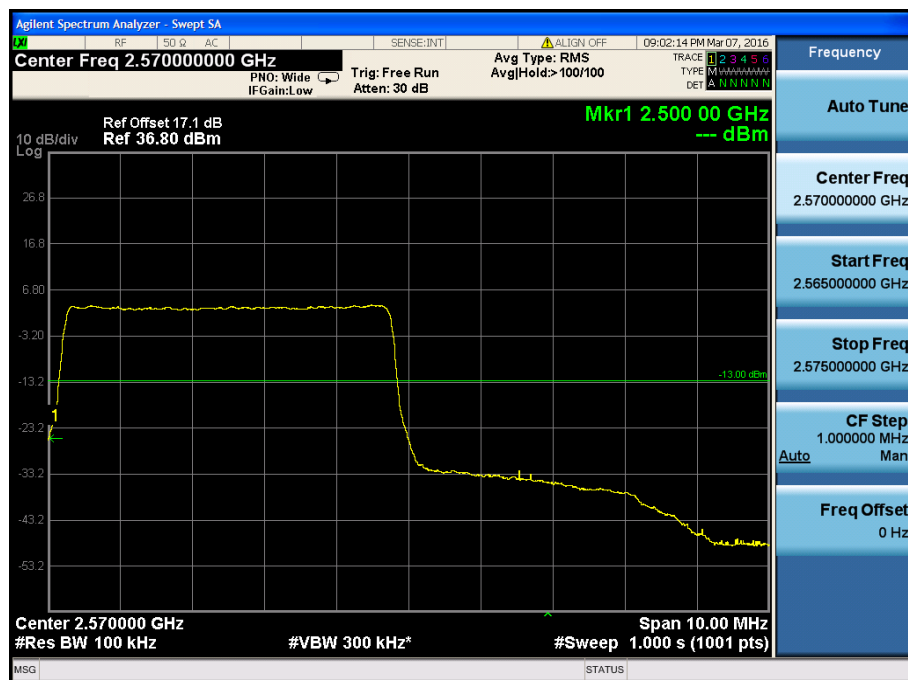#### 5.3.4.1.1 Test Channel = LCH

5.3.4.1.2 Test Channel = HCH

5.3.4.2 Test Mode = LTE/TM2 5MHz

5.3.4.2.1 Test Channel = LCH
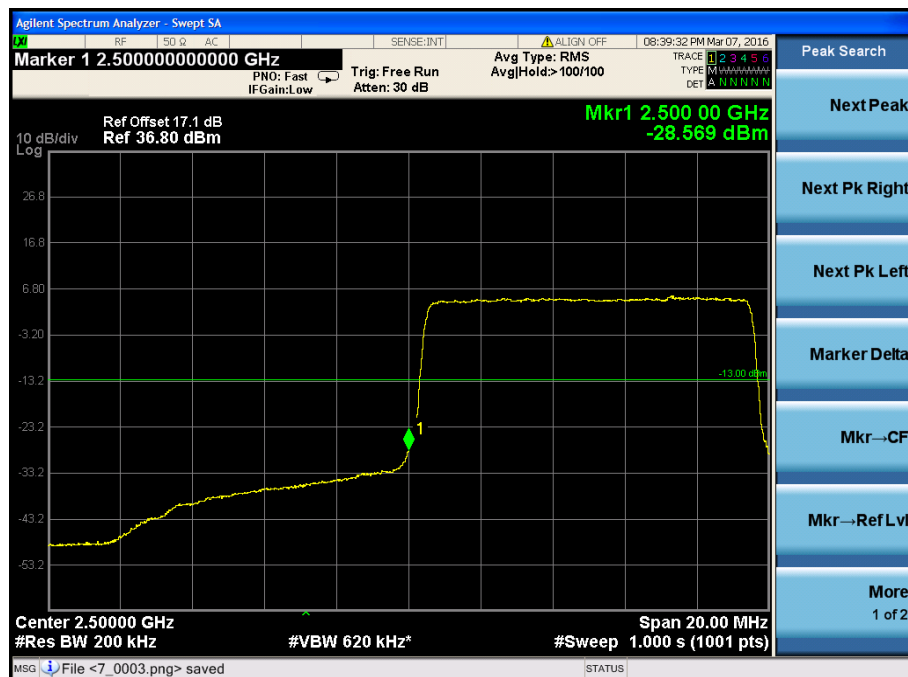
5.3.4.2.2 Test Channel = HCH
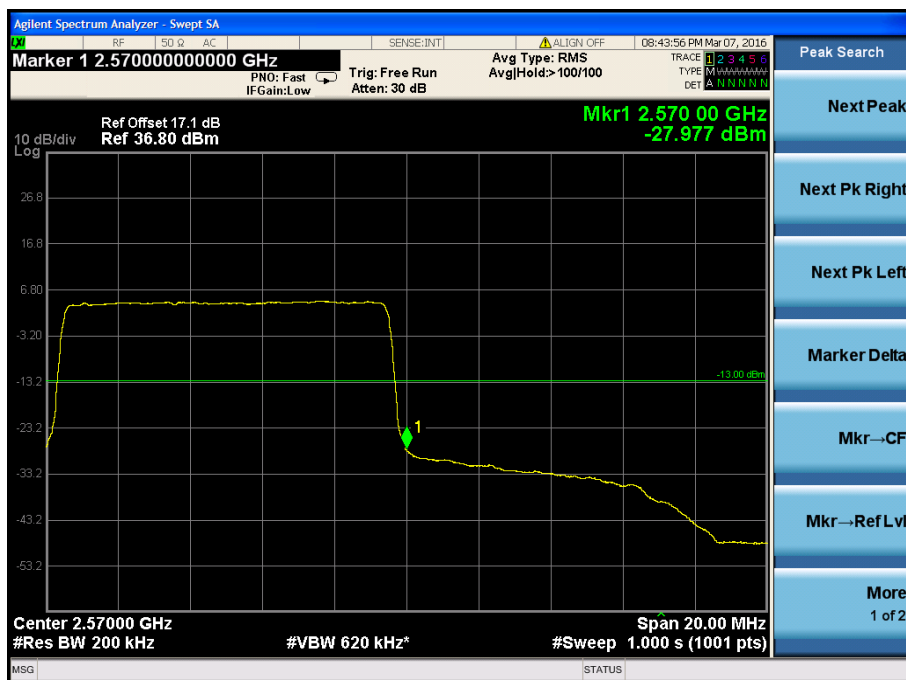

5.3.4.3   Test Mode = LTE/TM1 10MHz
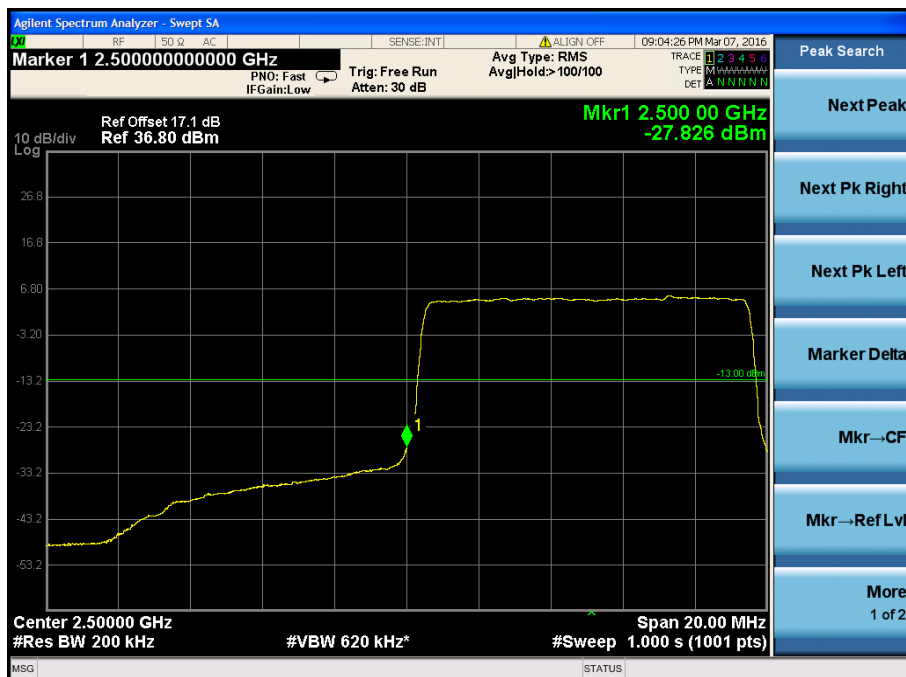
5.3.4.3.1 Test Channel = LCH

5.3.4.3.2 Test Channel = HCH

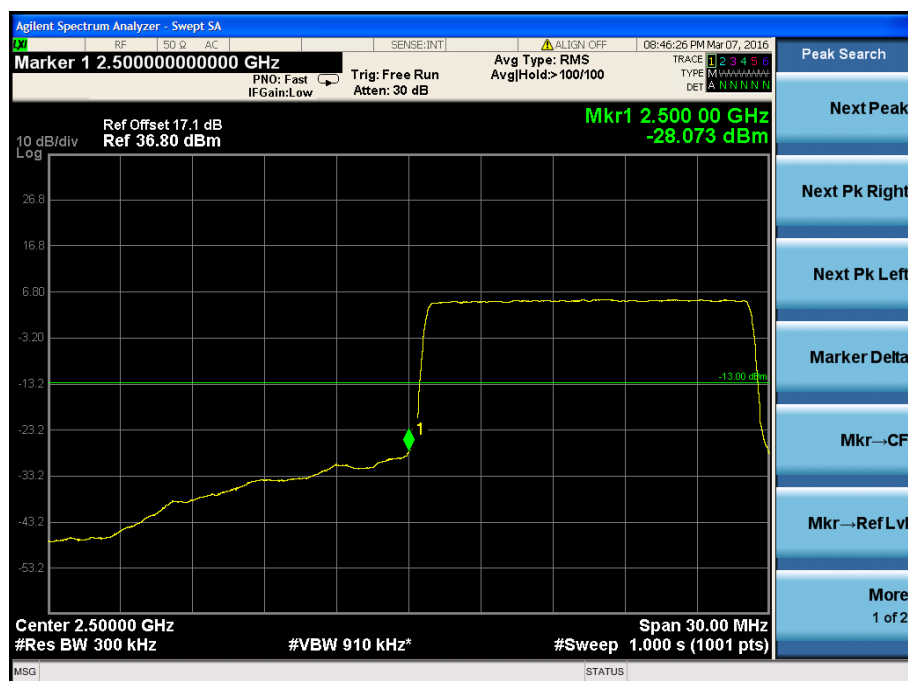## 5.3.4.4   Test Mode = LTE/TM2 10MHz

5.3.4.4.1 Test Channel = LCH

5.3.4.4.2 Test Channel = HCH

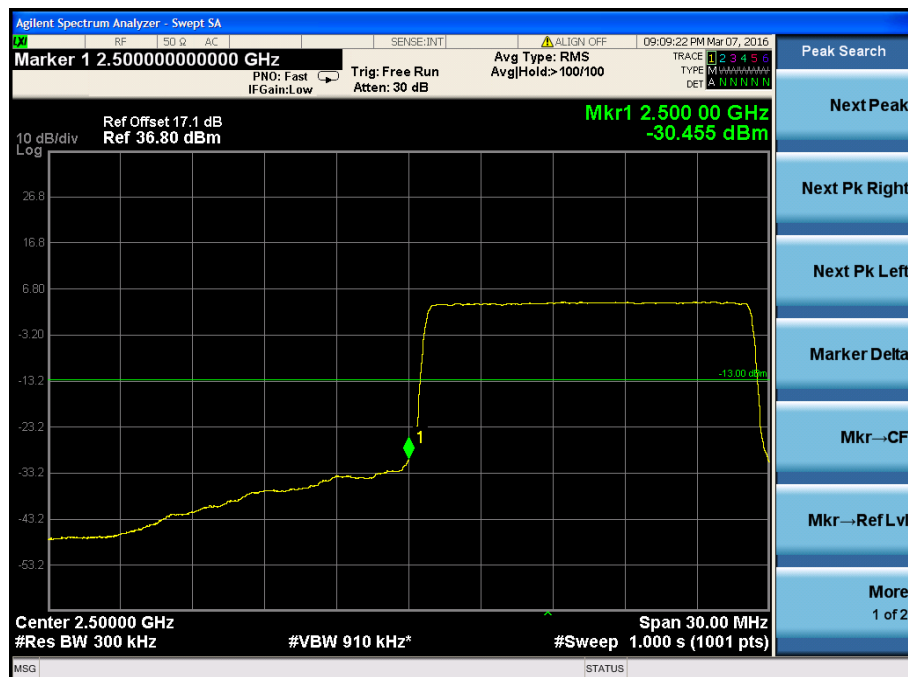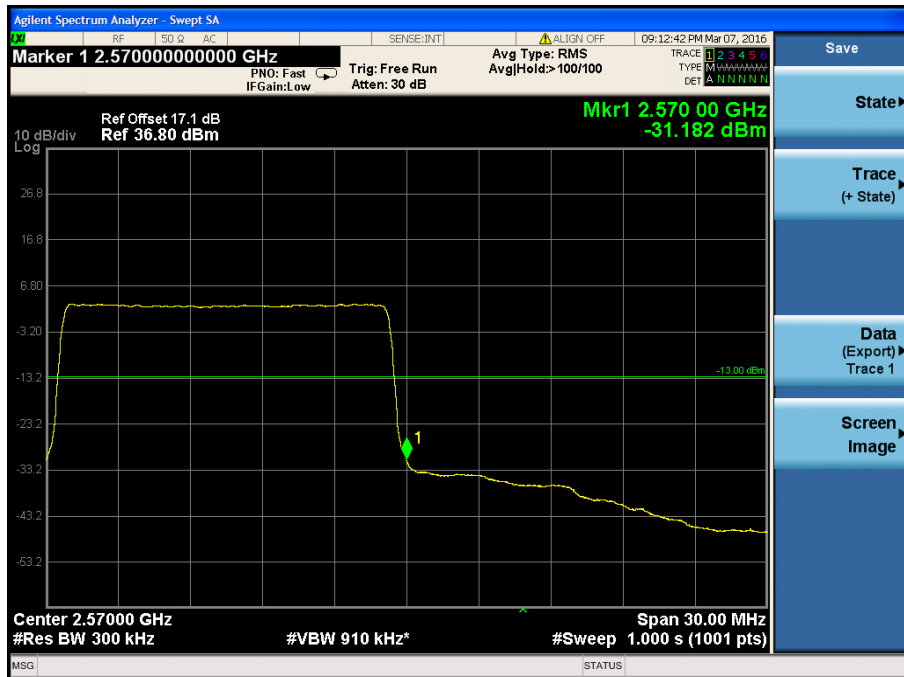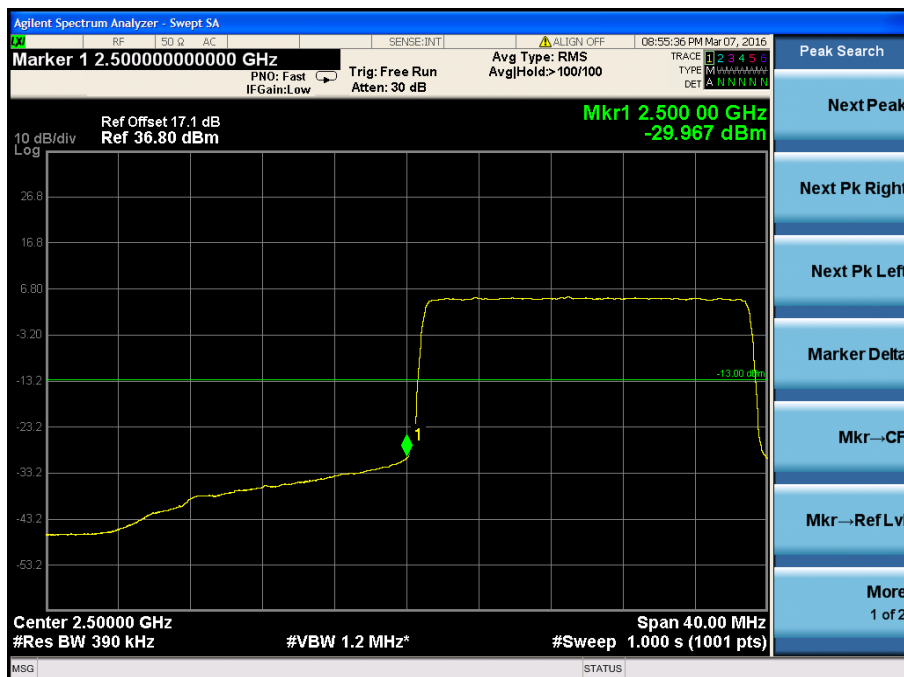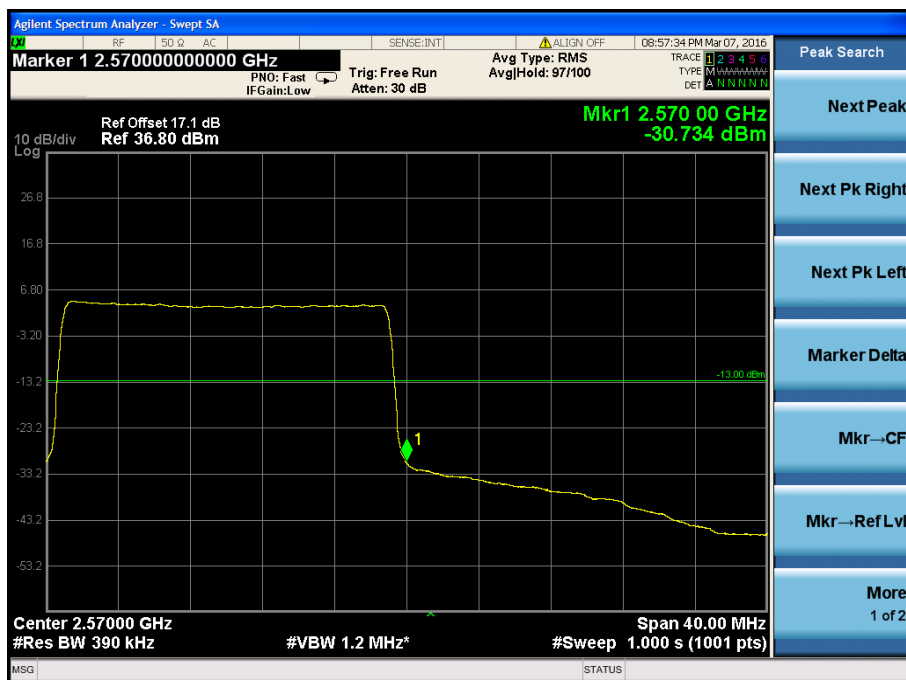## 5.3.4.5 Test Mode = LTE/TM1 15MHz
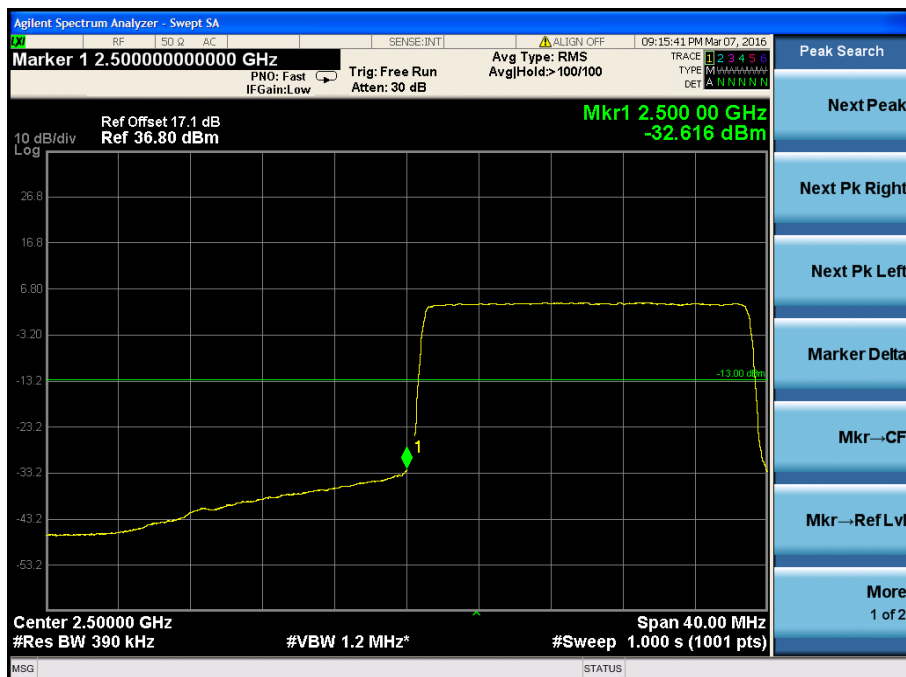
5.3.4.5.1 Test Channel = LCH

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5.3.4.5.2 Test Channel = HCH

5.3.4.6　Test Mode = LTE/TM2 15MHz

5.3.4.6.1 Test Channel = LCH

5.3.4.6.2 Test Channel = HCH

5.3.4.7   Test Mode = LTE/TM1 20MHz

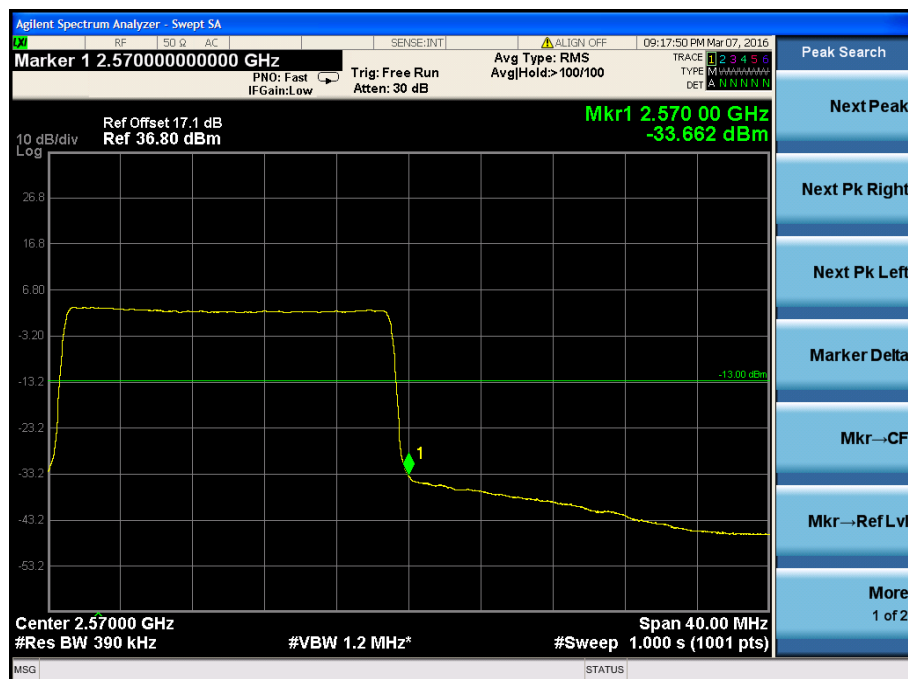### 5.3.4.7.1 Test Channel = LCH

5.3.4.7.2 Test Channel = HCH

5.3.4.8   Test Mode = LTE/TM2 20MHz

5.3.4.8.1 Test Channel = LCH

5.3.4.8.2 Test Channel = HCH

6   Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

6.1 For GSM

6.1.1 Test Band = GSM850

6.1.1.1   Test Mode = GSM/TM1

6.1.1.1.1 Test Channel = LCH

6.1.1.1.2 Test Channel = MCH

6.1.1.1.3 Test Channel = HCH

```
* RBW 1 MHz                        Marker 1 [T1 ]
* VBW 3 MHz                                   -30.91 dBm
Ref  37 dBm      * Att  30 dB     SWT 125 ms  3.465700000 GHz

Offset  17 dB
                                                          A
 30

 20                                                       LVL

 10

  0

-10
   D1 -13 dBm                                             3DB
-20

-30

-40

-50

-60

Start 1 GHz          900 MHz/              Stop 10 GHz
```

1 PK
MAXH

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6.1.2 Test Band = GSM1900

6.1.2.1   Test Mode = GSM/TM1

6.1.2.1.1 Test Channel = LCH

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6.1.2.1.2 Test Channel = MCH

```
*RBW 1 MHz              Marker 1 [T1 ]
*VBW 3 MHz                    28.72 dBm
Ref  37 dBm    *Att  30 dB   SWT 125 ms    1.879900000 GHz

Offset  17 dB

 30
      1
 20

 10

  0

-10
   D1 -13 dBm

-20

-30

-50

-60

Start 1 GHz       900 MHz/       Stop 10 GHz
```



```
*RBW 1 MHz              Marker 1 [T1 ]
*VBW 3 MHz                   -31.54 dBm
Ref  37 dBm    *Att  30 dB   SWT 125 ms   19.149333333 GHz

Offset  17 dB

 30

 20

 10

  0

-10
   D1 -13 dBm

-20

-30                                    1

-50

-60

Start 10 GHz        1 GHz/        Stop 20 GHz
```

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6.1.2.1.3 Test Channel = HCH


```
* RBW  100 kHz        Marker 1 [T1 ]
* VBW  300 kHz              -37.62 dBm
Ref  37 dBm    * Att  30 dB    SWT 125 ms    567.735666667 MHz
```

Offset 17 dB

1 PK MAXH

D1 -13 dBm

Start 30 MHz   97 MHz/   Stop 1 GHz


```
* RBW  1 MHz          Marker 1 [T1 ]
* VBW  3 MHz               29.08 dBm
Ref  37 dBm    * Att  30 dB    SWT 125 ms    1.909600000 GHz
```

Offset 17 dB

1 PK MAXH

D1 -13 dBm

Start 1 GHz   900 MHz/   Stop 10 GHz

*RBW 1 MHz	Marker 1 [T1]
*VBW 3 MHz	-32.51 dBm
Ref 37 dBm *Att 30 dB	SWT 125 ms 18.725000000 GHz

Offset 17 dB

1 PK
MAXH

D1 -13 dBm

A

LVL

3DB

1

Start 10 GHz   1 GHz/   Stop 20 GHz
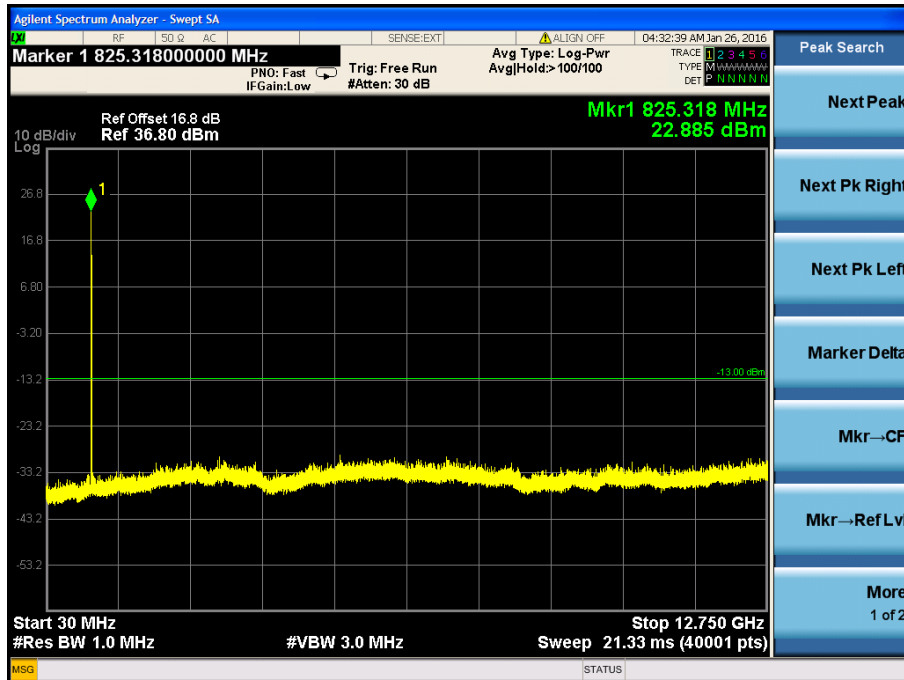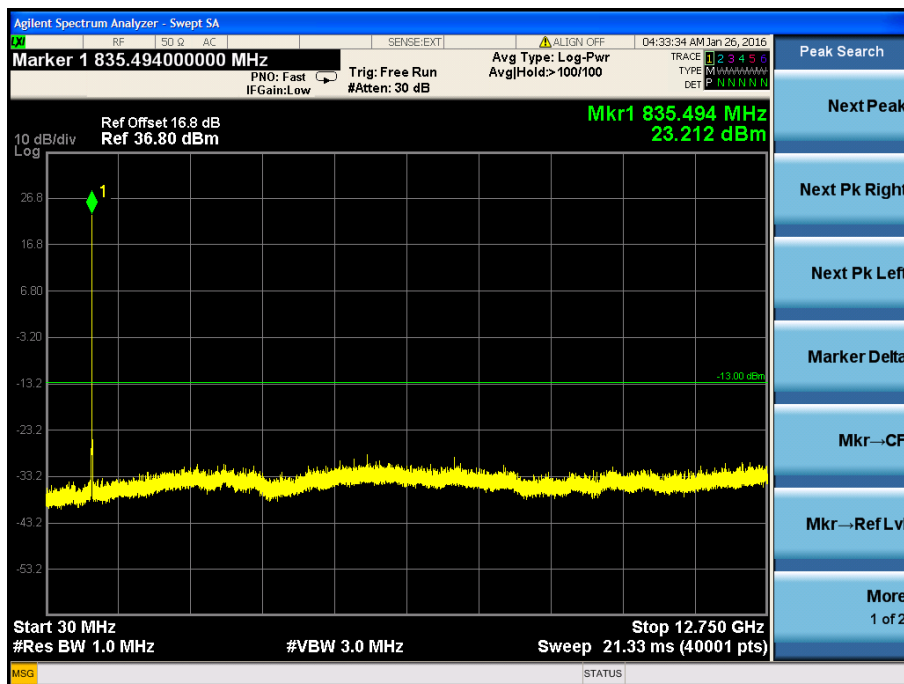
6.2 For WCDMA

6.2.1 Test Band = WCDMA850

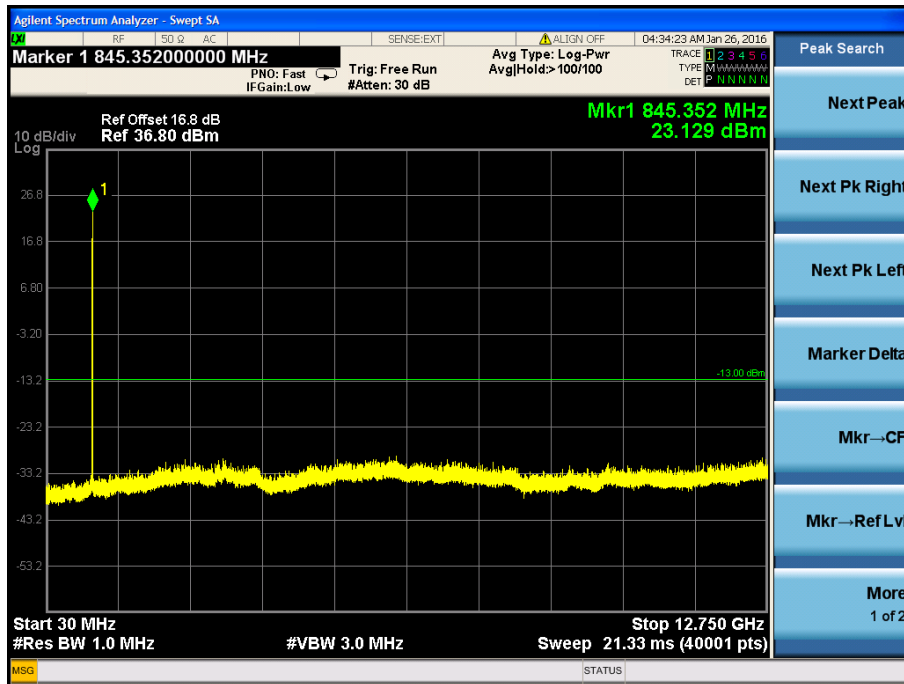#### 8.1.1.2   Test Mode = UMTS/TM1

6.2.1.1.1 Test Channel = LCH

6.2.1.1.2 Test Channel = MCH
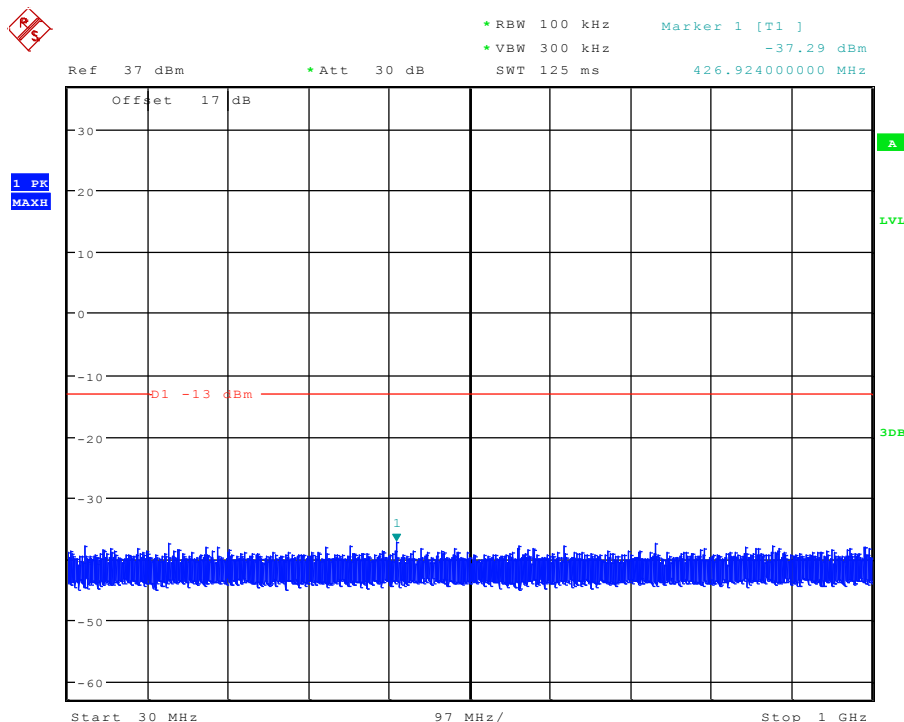
6.2.1.1.3 Test Channel = HCH

6.2.2 Test Band = WCDMA1700

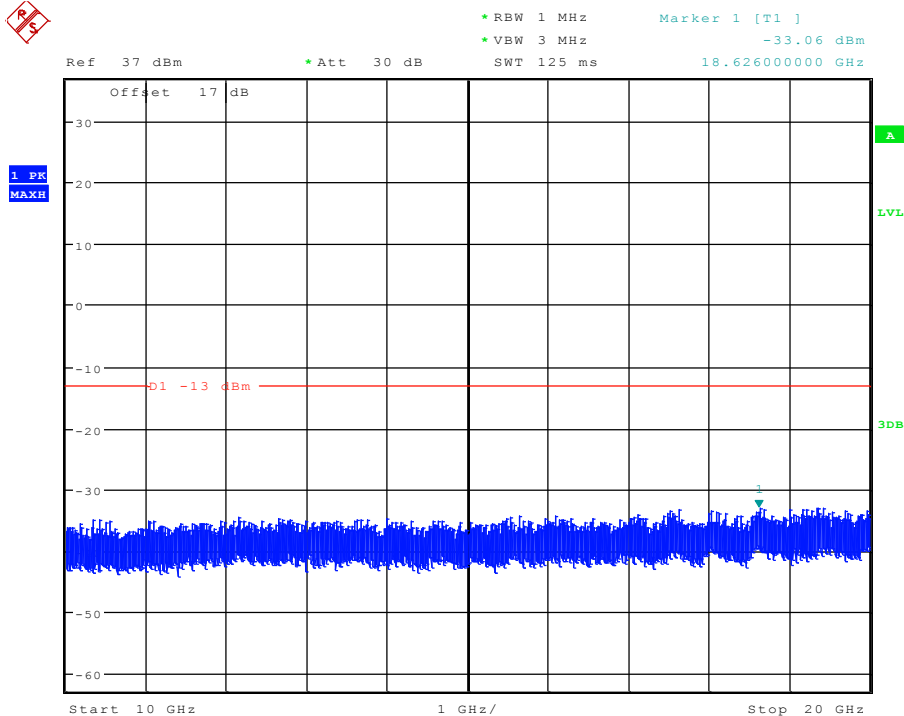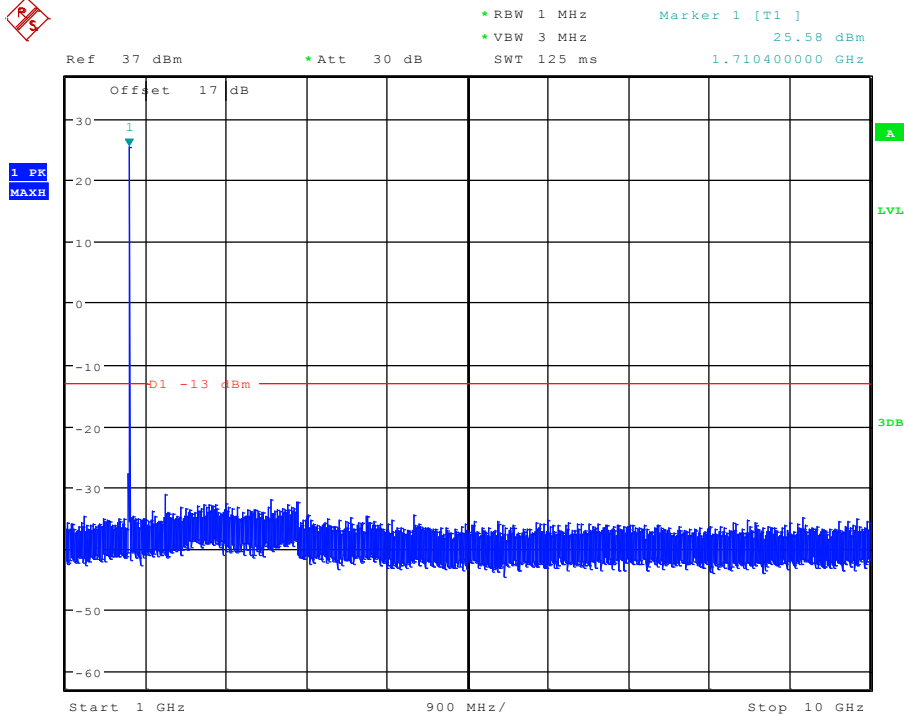### 8.1.1.2 Test Mode = UMTS/TM1

6.2.2.1.1 Test Channel = LCH

Chart 1:

```
*RBW 1 MHz          Marker 1 [T1 ]
*VBW 3 MHz                25.58 dBm
Ref 37 dBm     *Att 30 dB    SWT 125 ms        1.710400000 GHz
```

Offset 17 dB

1 PK MAXH

A

LVL

D1 -13 dBm

3DB

```
Start 1 GHz          900 MHz/          Stop 10 GHz
```

Chart 2:

```
*RBW 1 MHz          Marker 1 [T1 ]
*VBW 3 MHz               -33.06 dBm
Ref 37 dBm     *Att 30 dB    SWT 125 ms        18.626000000 GHz
```

Offset 17 dB

1 PK MAXH

A

LVL

D1 -13 dBm

3DB

```
Start 10 GHz          1 GHz/          Stop 20 GHz
```

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6.2.2.1.2 Test Channel = MCH