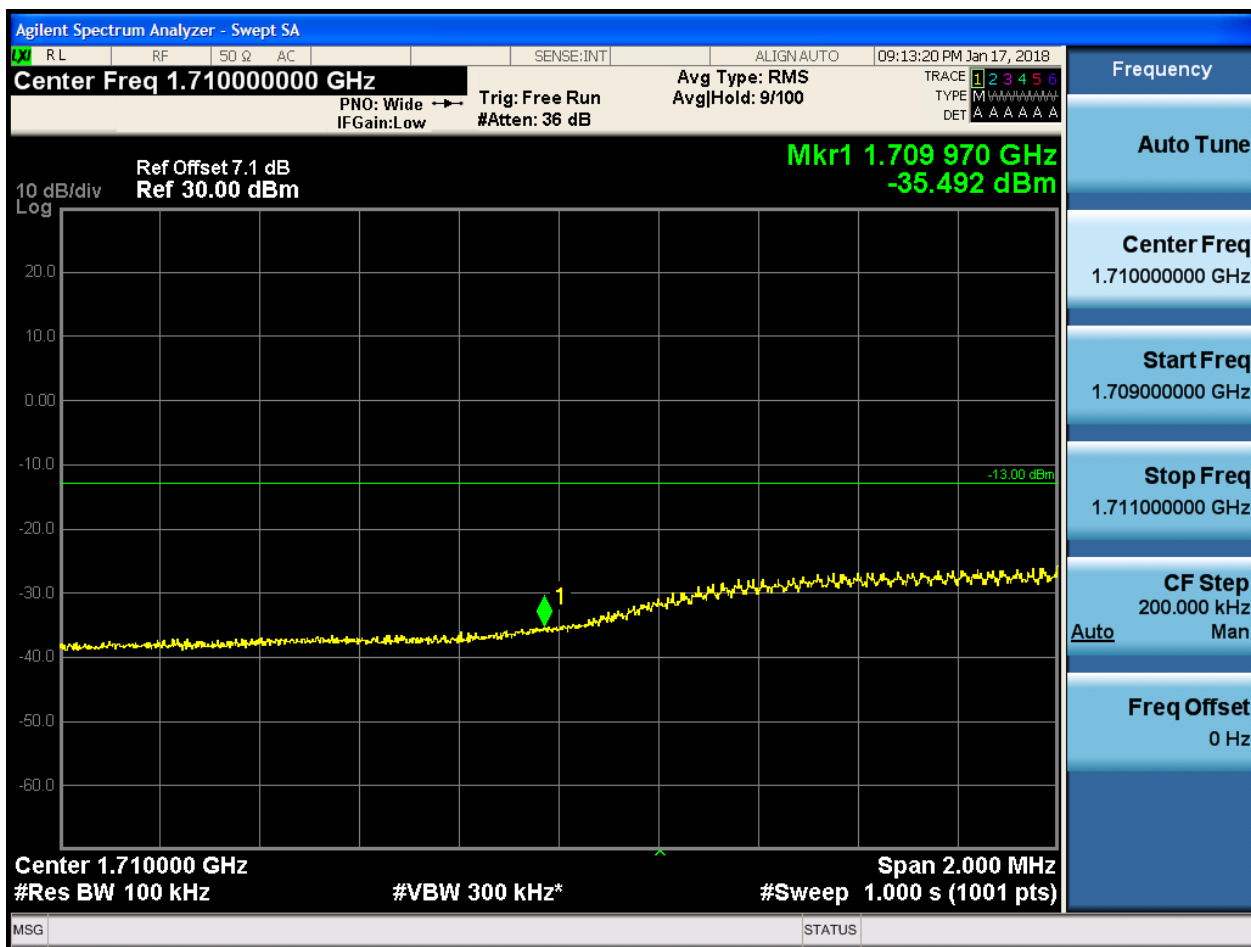


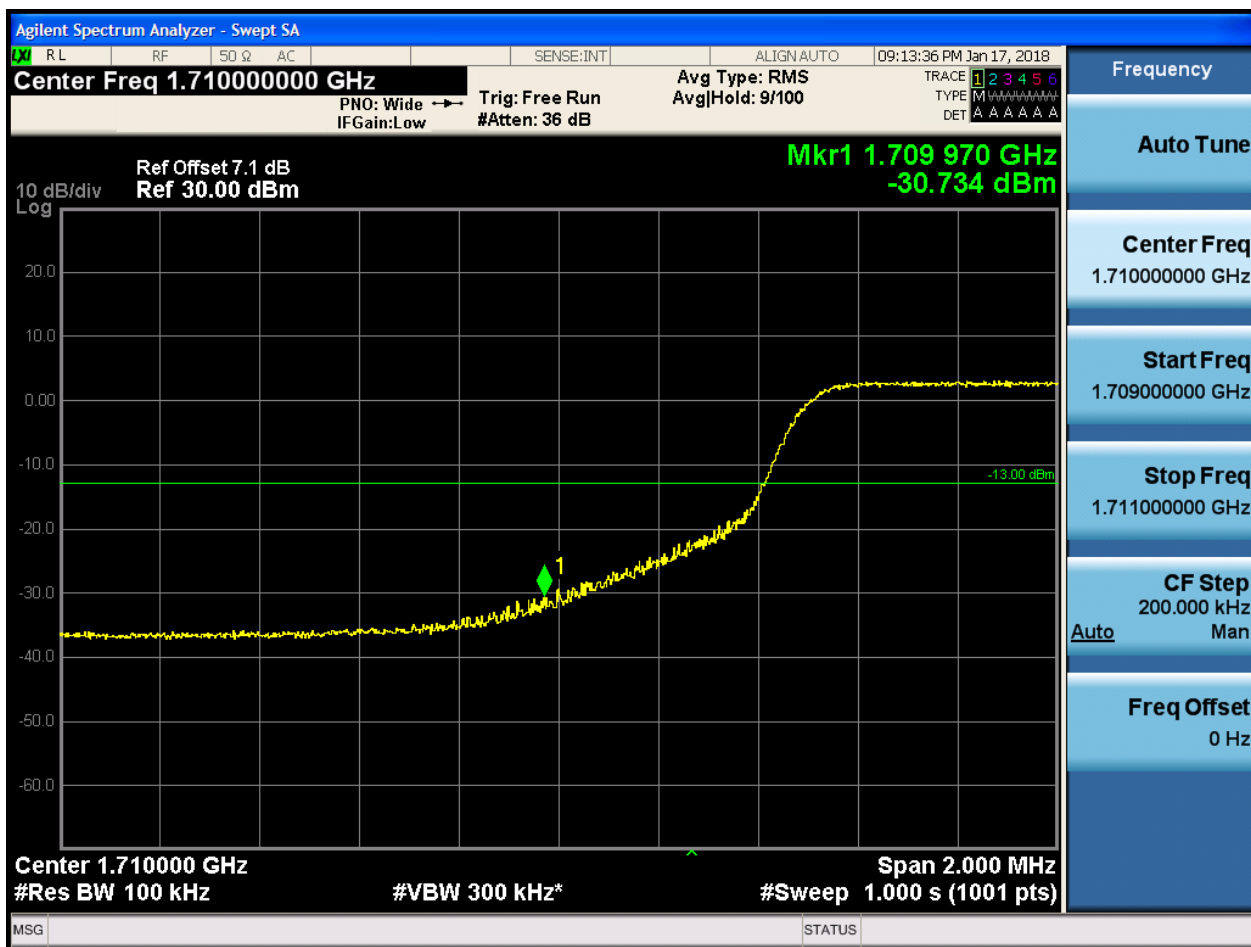


## 5.1.1.2.4.1.3 Test RB = RB25#13



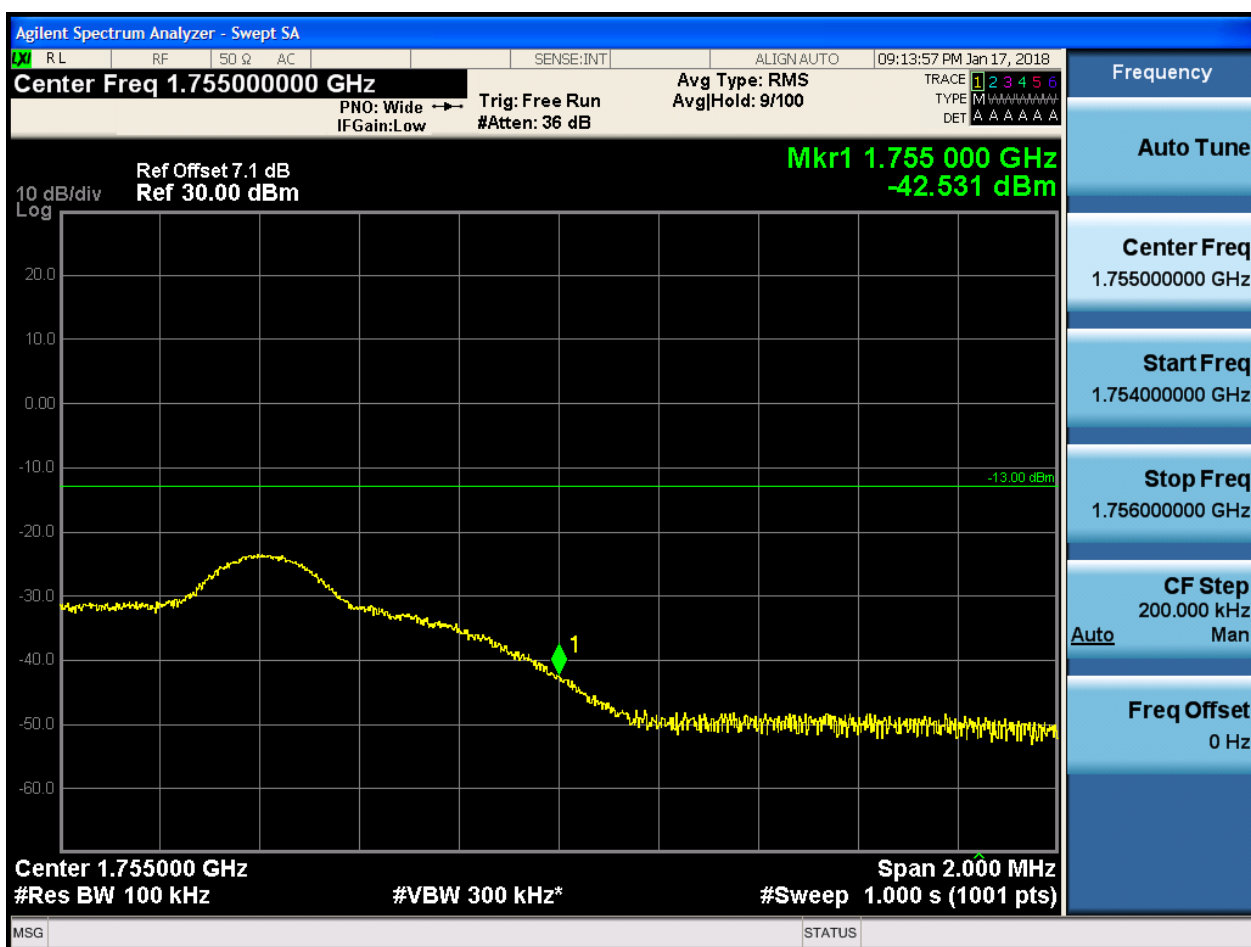


## 5.1.1.2.4.1.4 Test RB = RB50#0



### 5.1.1.2.4.2 Test Channel = HCH

#### 5.1.1.2.4.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 09:14:13 PM Jan 17, 2018

Center Freq 1.755000000 GHz Avg Type: RMS  
PNO: Wide Trig: Free Run  
IFGain:Low #Atten: 36 dB

TRACE 1 2 3 4 5 6  
TYPE M W W W W W W W W W  
DET A A A A A A

Ref Offset 7.1 dB  
Ref 30.00 dBm

Mkr1 1.755 010 GHz  
-18.074 dBm

10 dB/div  
Log

Center 1.755000 GHz  
#Res BW 100 kHz  
#VBW 300 kHz\*  
Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq  
1.755000000 GHz

Start Freq  
1.754000000 GHz

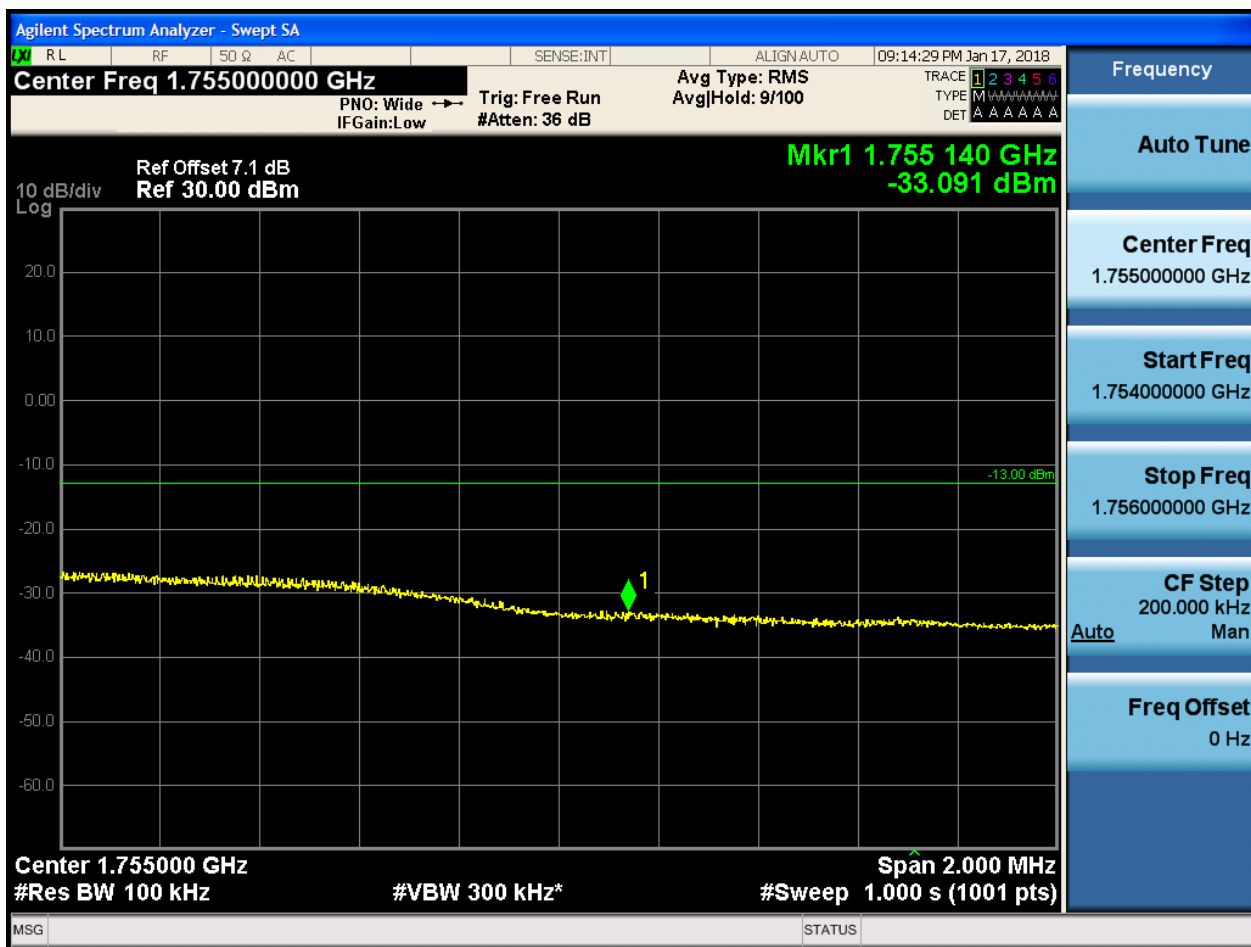
Stop Freq  
1.756000000 GHz

CF Step  
200.000 kHz  
Auto Man

Freq Offset  
0 Hz



## 5.1.1.2.4.2.3 Test RB = RB25#13





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 09:14:45 PM Jan 17, 2018

Center Freq 1.755000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 9/100  
#Atten: 36 dB

TRACE 1 2 3 4 5 6  
TYPE M W W W W W W W  
DET A A A A A A

Ref Offset 7.1 dB  
Ref 30.00 dBm

Mkr1 1.755 000 GHz  
-31.789 dBm

10 dB/div  
Log

20.0  
10.0  
0.00  
-10.0  
-20.0  
-30.0  
-40.0  
-50.0  
-60.0

-13.00 dBm

1

Center 1.755000 GHz  
#Res BW 100 kHz

#VBW 300 kHz\*

Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq  
1.755000000 GHz

Start Freq  
1.754000000 GHz

Stop Freq  
1.756000000 GHz

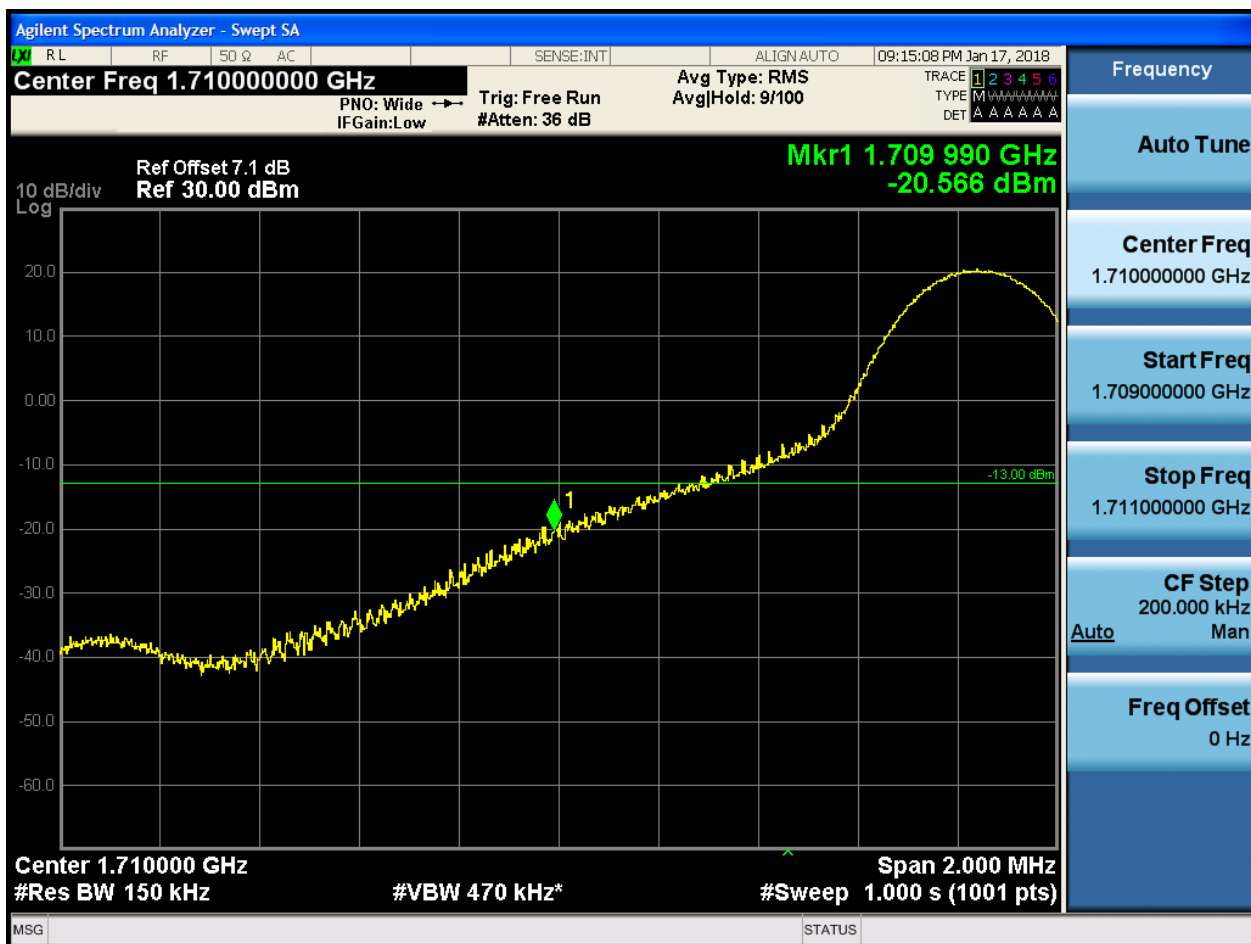
CF Step  
200.000 kHz  
Auto Man

Freq Offset  
0 Hz

### 5.1.1.2.5 Test Bandwidth = 15

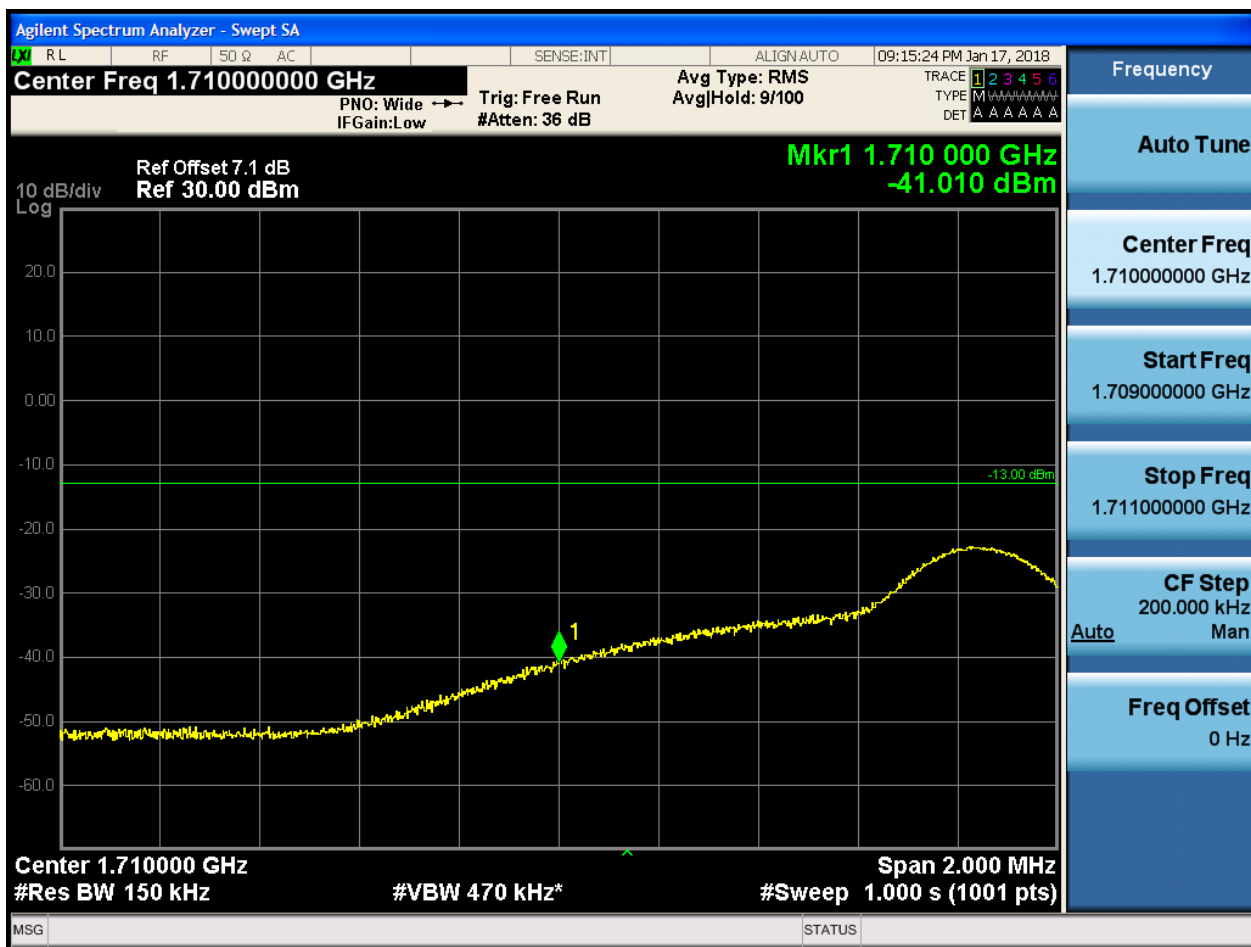
#### 5.1.1.2.5.1 Test Channel = LCH

##### 5.1.1.2.5.1.1 Test RB = RB1#0



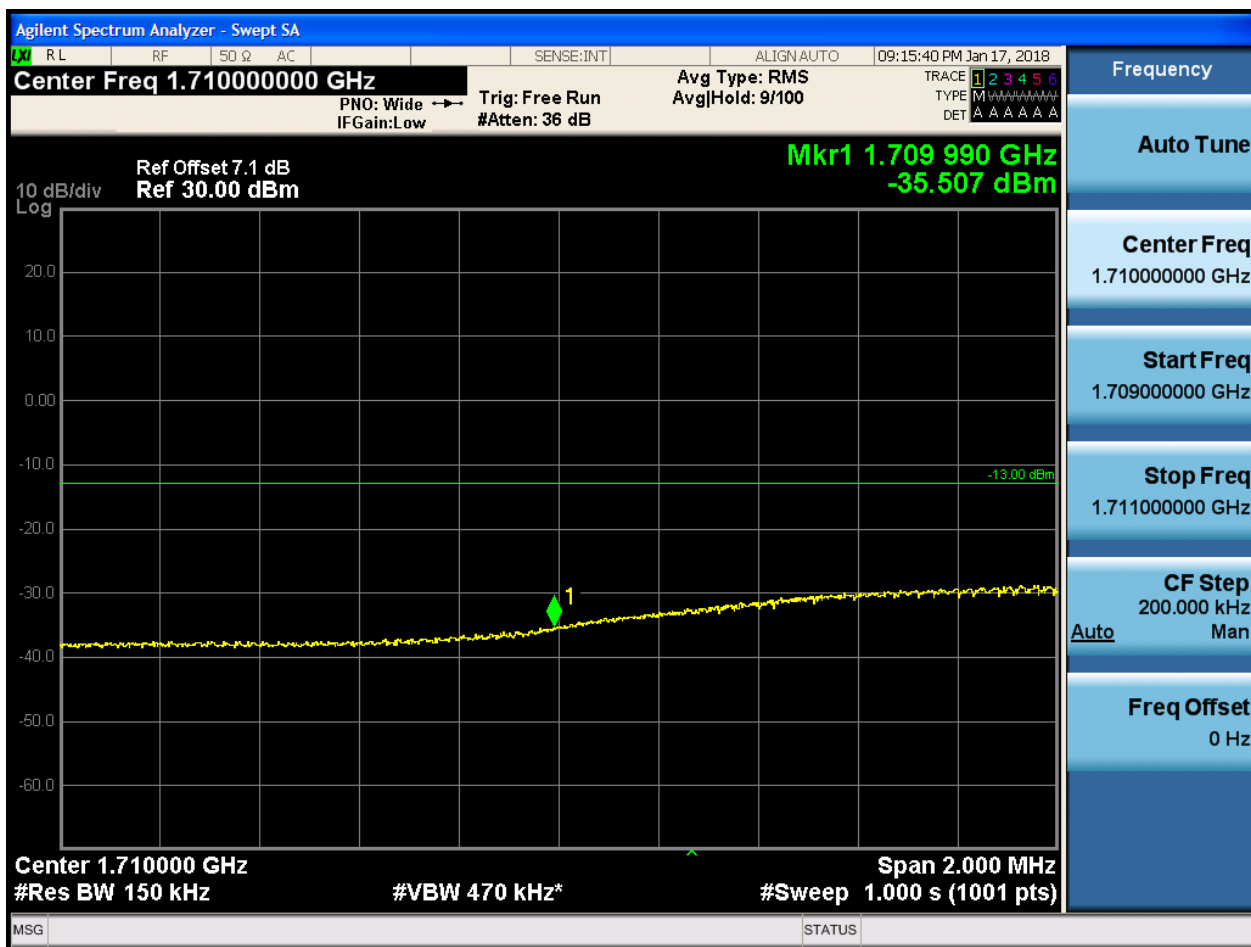


## 5.1.1.2.5.1.2 Test RB = RB1#74





## 5.1.1.2.5.1.3 Test RB = RB38#19





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 09:15:56 PM Jan 17, 2018

Center Freq 1.710000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 9/100  
#Atten: 36 dB

TRACE 1 2 3 4 5 6  
TYPE M W W W W W W W  
DET A A A A A A

Ref Offset 7.1 dB  
Ref 30.00 dBm

Mkr1 1.710 000 GHz  
-31.752 dBm

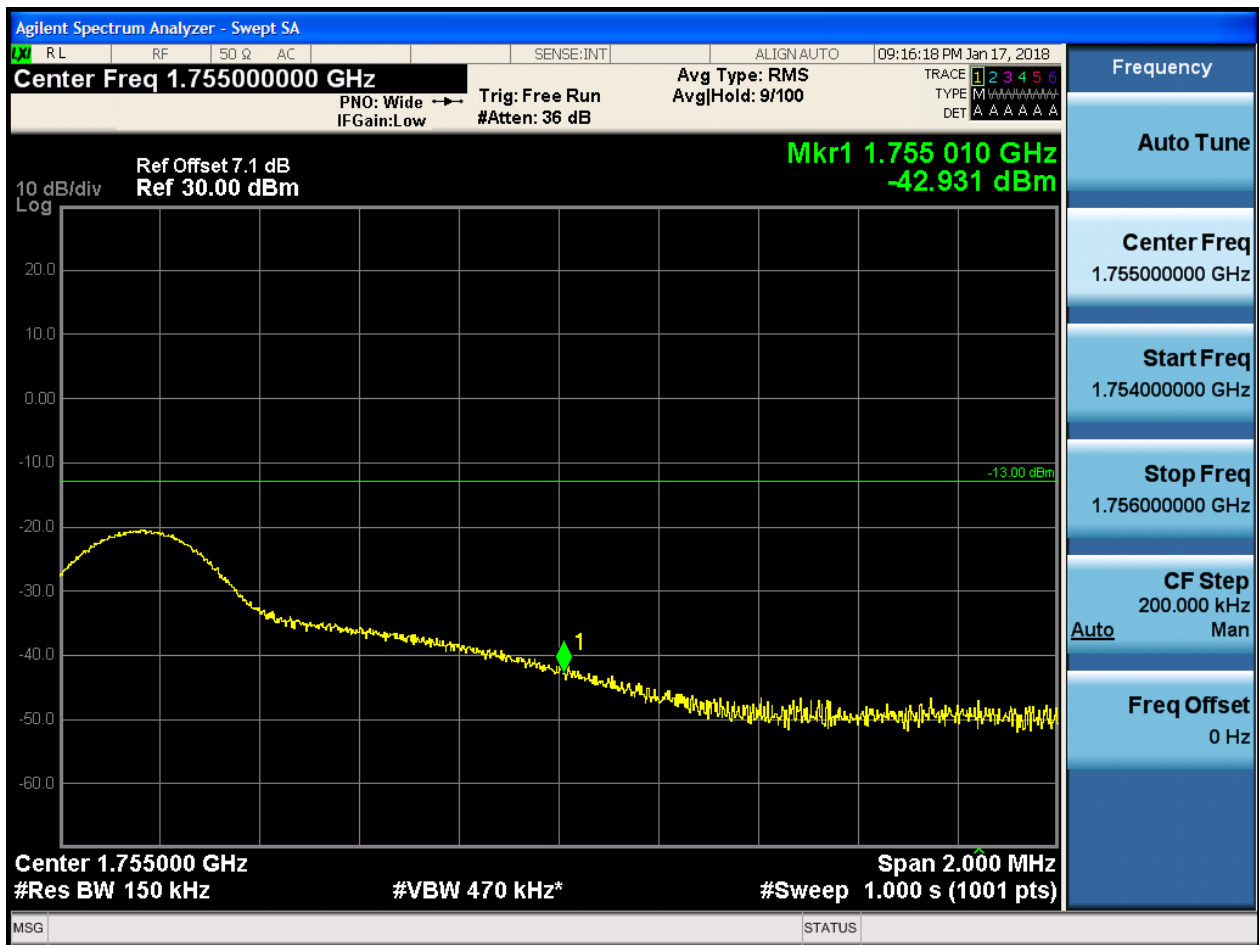
10 dB/div  
Log

Center 1.710000 GHz  
#Res BW 150 kHz  
#VBW 470 kHz\*  
Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS

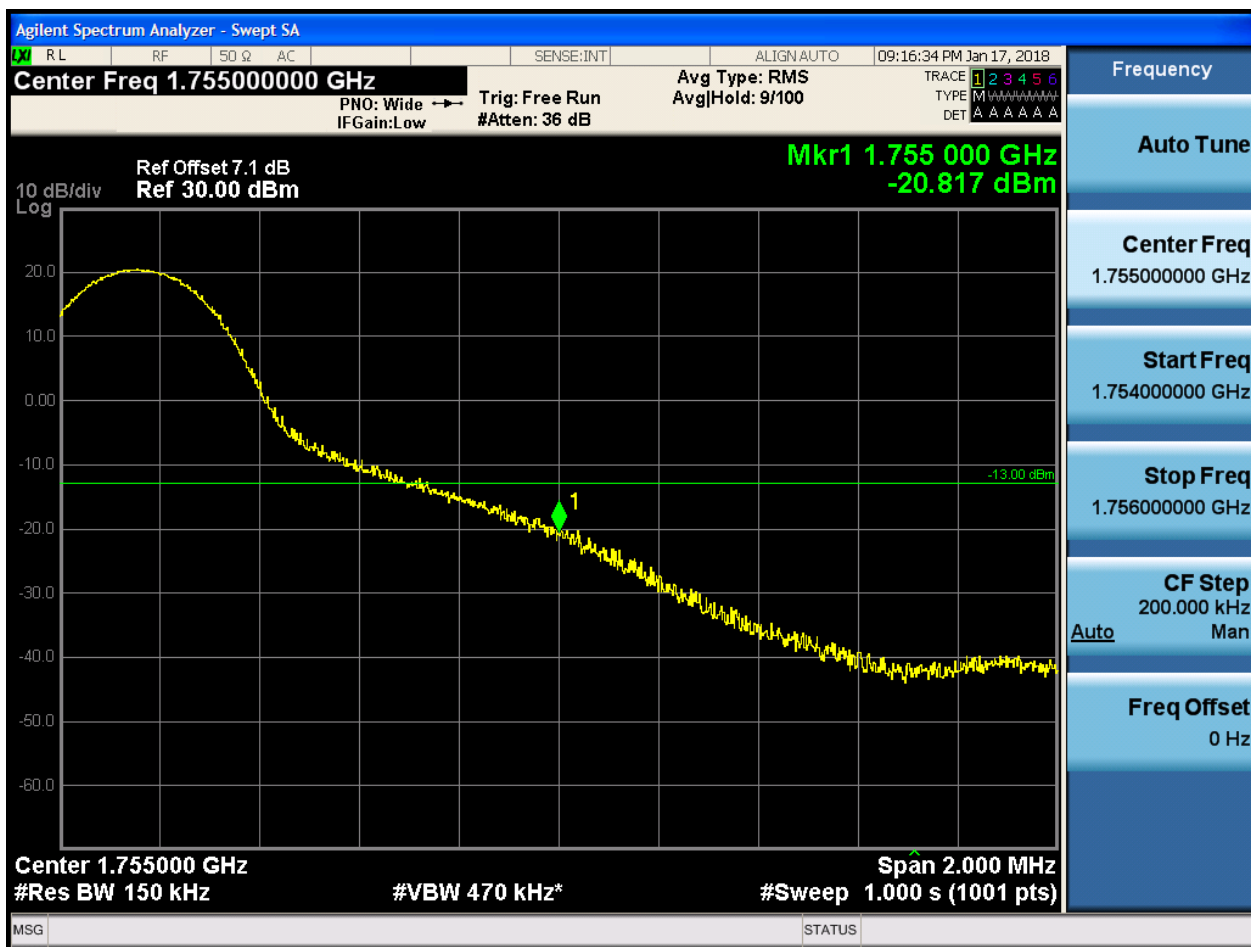
### 5.1.1.2.5.2 Test Channel = HCH

#### 5.1.1.2.5.2.1 Test RB = RB1#0





## 5.1.1.2.5.2.2 Test RB = RB1#74





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 09:16:49 PM Jan 17, 2018

Center Freq 1.755000000 GHz Avg Type: RMS  
 PNO: Wide IFGain:Low Trig: Free Run AvgHold: 9/100  
 #Atten: 36 dB

TRACE 1 2 3 4 5 6  
 TYPE M W W W W W W W W W  
 DET A A A A A A A

Ref Offset 7.1 dB  
 Ref 30.00 dBm

Mkr1 1.755 000 GHz  
 -32.179 dBm

10 dB/div  
 Log

Center 1.755000 GHz  
 #Res BW 150 kHz  
 #VBW 470 kHz\*  
 Span 2.000 MHz  
 #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq  
 1.755000000 GHz

Start Freq  
 1.754000000 GHz

Stop Freq  
 1.756000000 GHz

CF Step  
 200.000 kHz  
 Auto Man

Freq Offset  
 0 Hz



## 5.1.1.2.5.2.4 Test RB = RB75#0

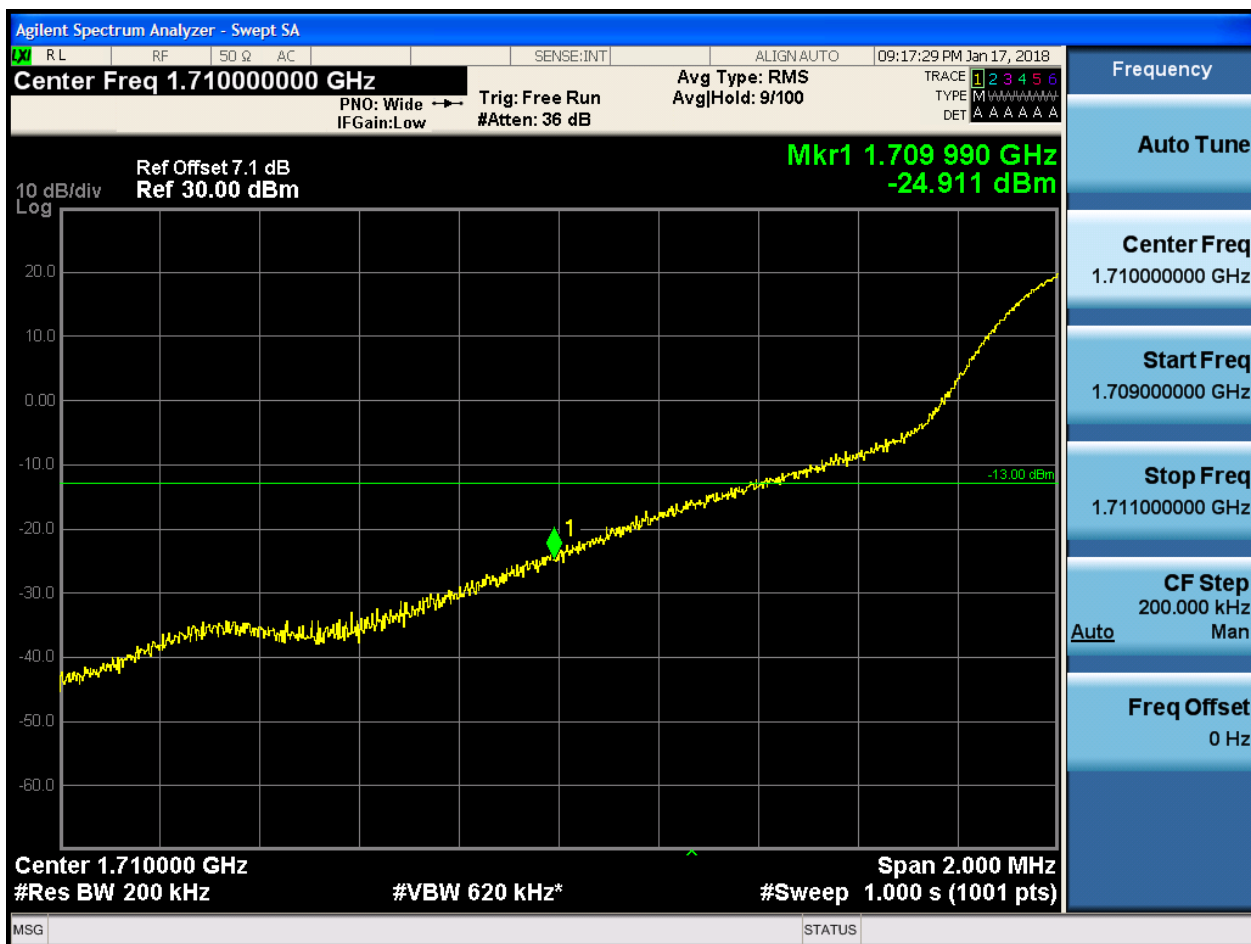




## 5.1.1.2.6 Test Bandwidth = 20

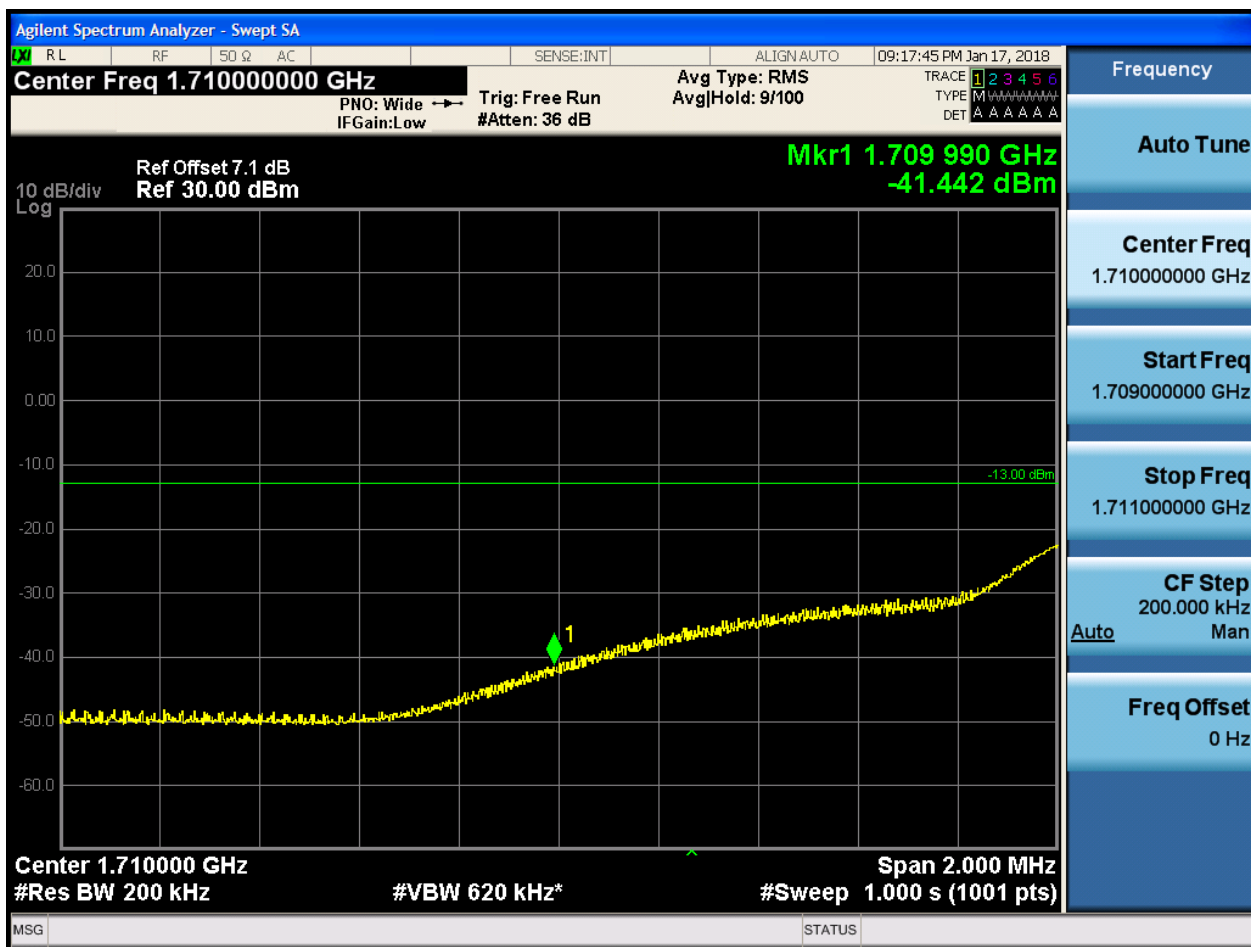
## 5.1.1.2.6.1 Test Channel = LCH

## 5.1.1.2.6.1.1 Test RB = RB1#0



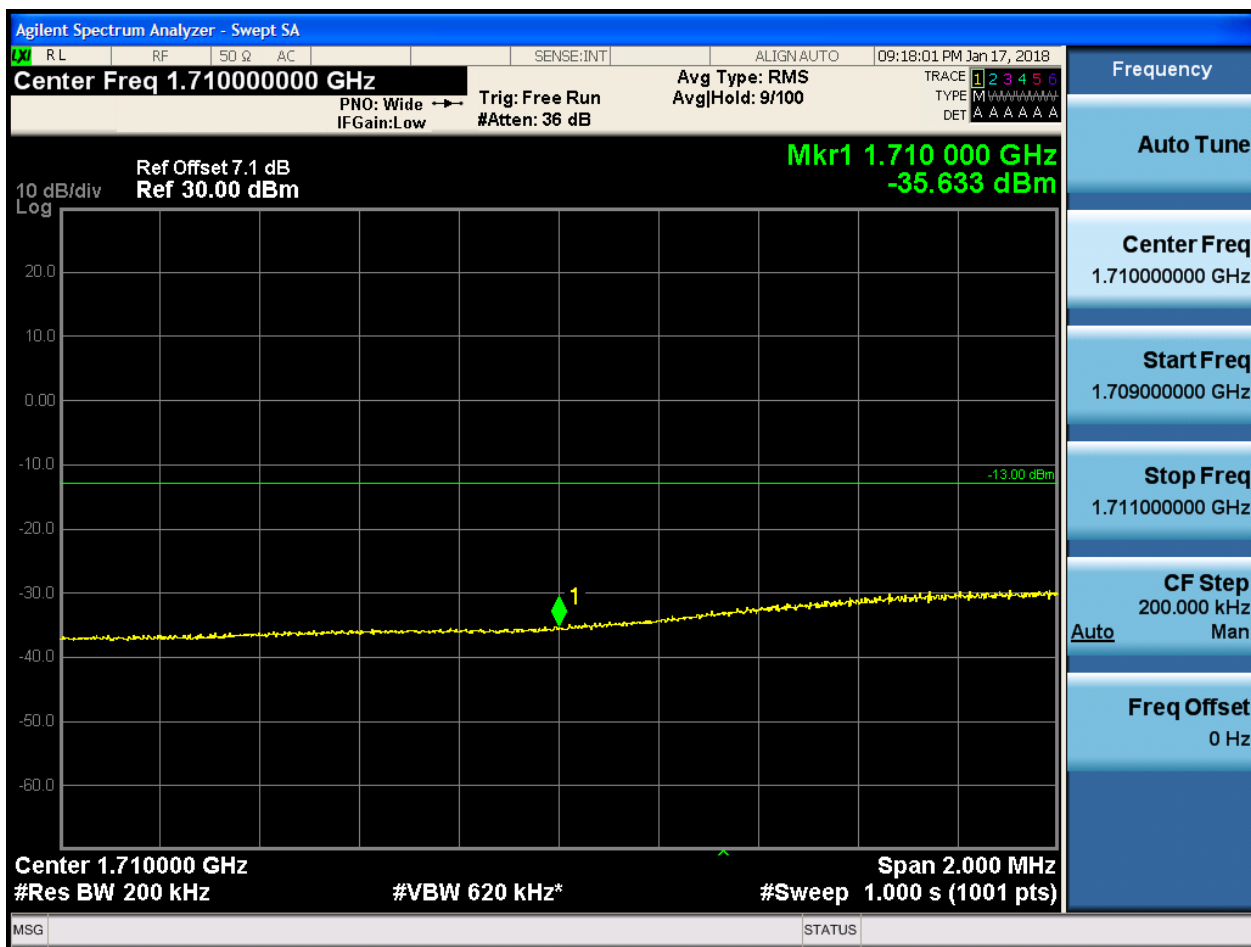


## 5.1.1.2.6.1.2 Test RB = RB1#99



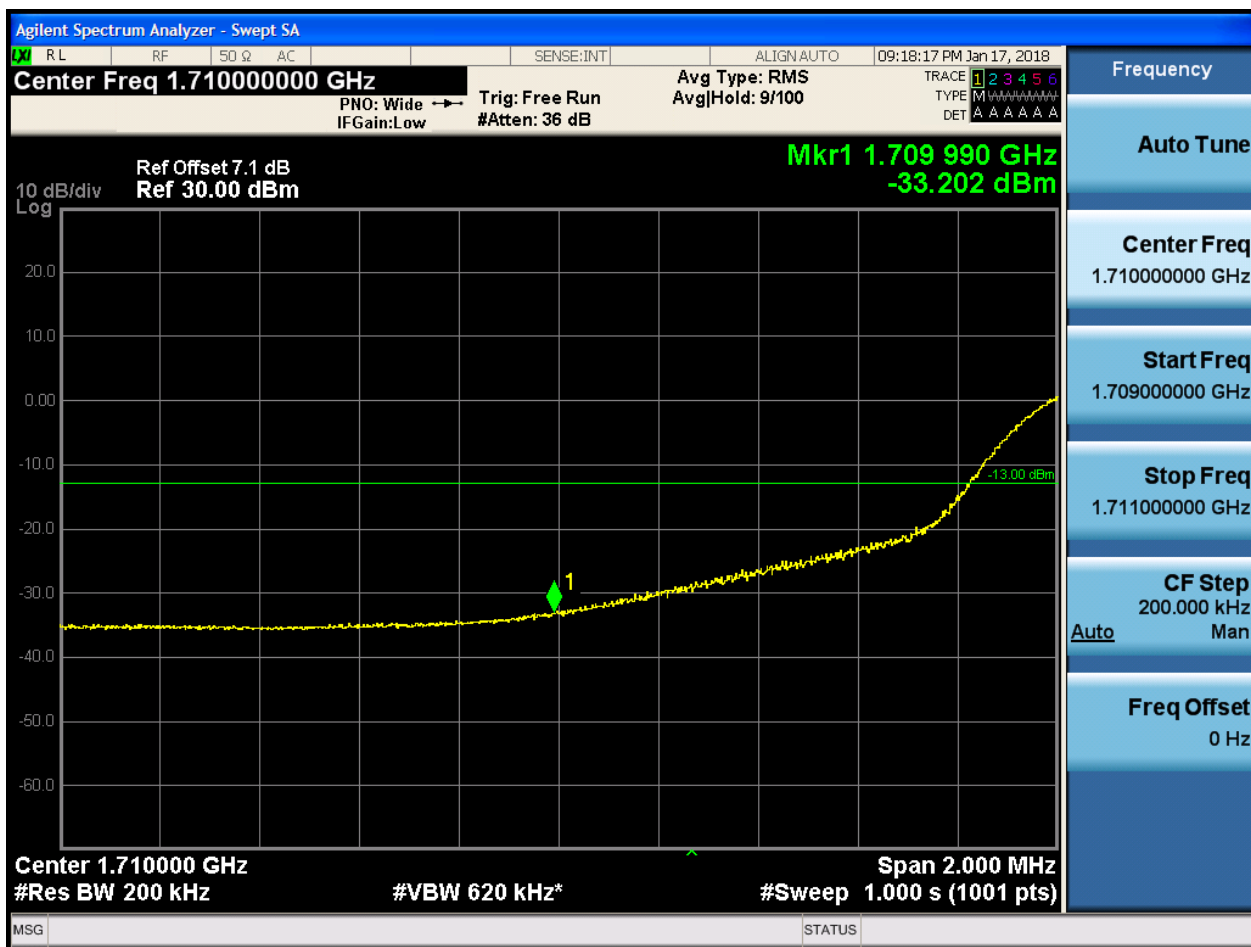


## 5.1.1.2.6.1.3 Test RB = RB50#25





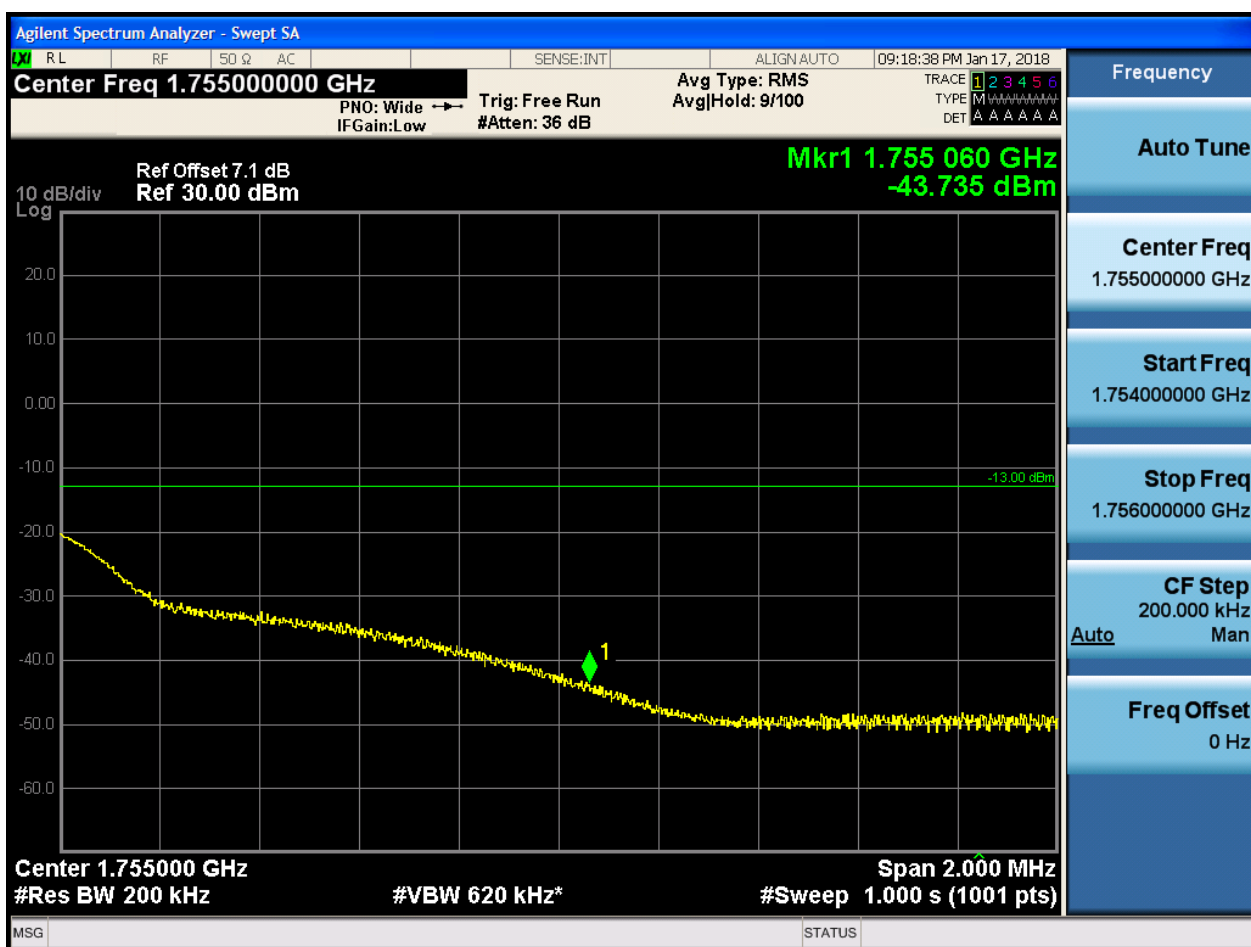
## 5.1.1.2.6.1.4 Test RB = RB100#0





## 5.1.1.2.6.2 Test Channel = HCH

## 5.1.1.2.6.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 1.755000000 GHz

Ref Offset 7.1 dB  
Ref 30.00 dBm

10 dB/div  
Log

Mkr1 1.755 000 GHz  
-26.901 dBm

Center 1.755000 GHz  
#Res BW 200 kHz  
#VBW 620 kHz\*

Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq  
1.755000000 GHz

Start Freq  
1.754000000 GHz

Stop Freq  
1.756000000 GHz

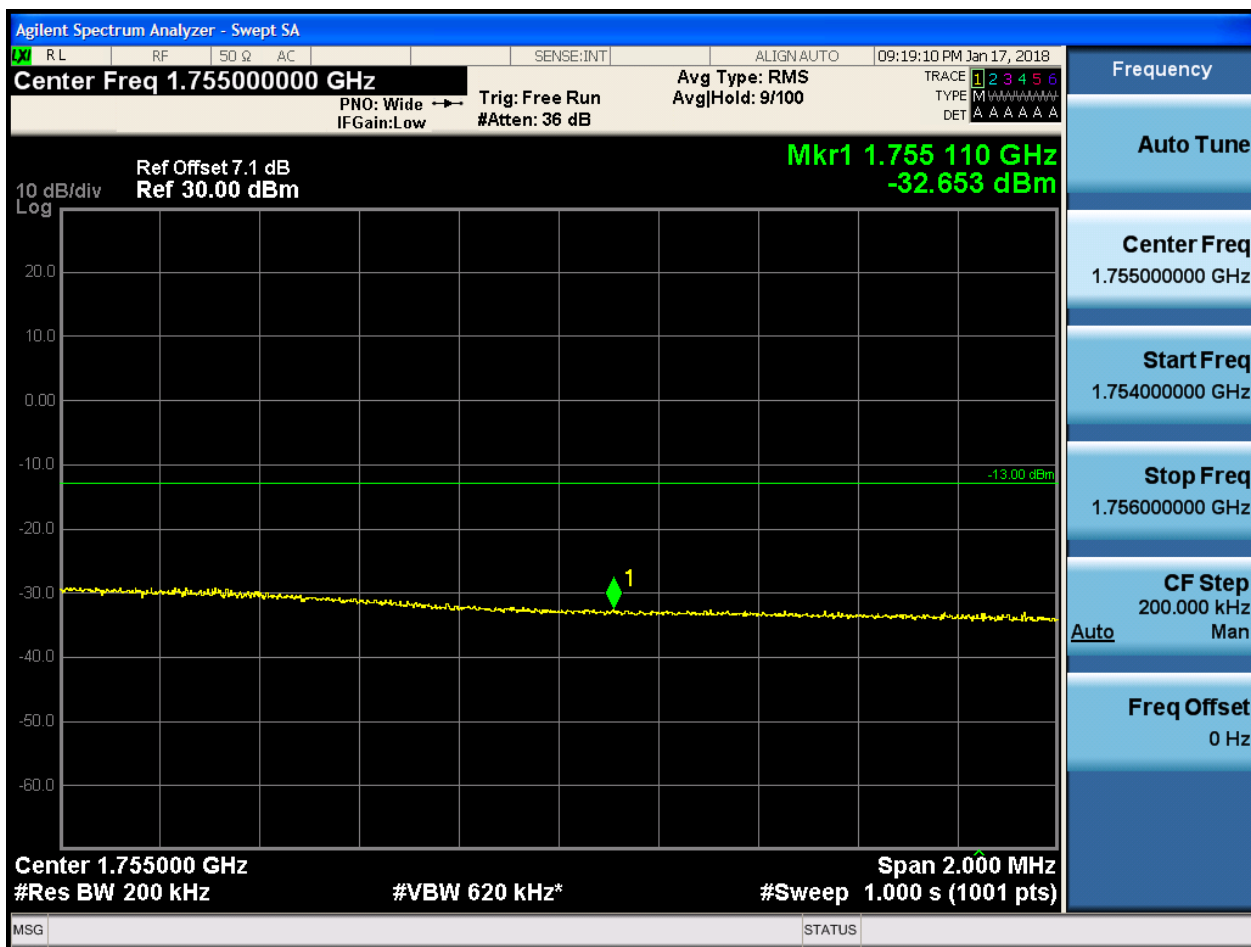
CF Step  
200.000 kHz  
Auto Man

Freq Offset  
0 Hz

MSG STATUS



## 5.1.1.2.6.2.3 Test RB = RB50#25





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 09:19:26 PM Jan 17, 2018

Center Freq 1.755000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 9/100  
#Atten: 36 dB

TRACE 1 2 3 4 5 6  
TYPE M W W W W W W W W  
DET A A A A A A

Ref Offset 7.1 dB  
Ref 30.00 dBm

Mkr1 1.755 010 GHz  
-32.363 dBm

10 dB/div  
Log

Center 1.755000 GHz  
#Res BW 200 kHz  
#VBW 620 kHz\*  
Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS

## 6Appendix\_F: 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 LTE

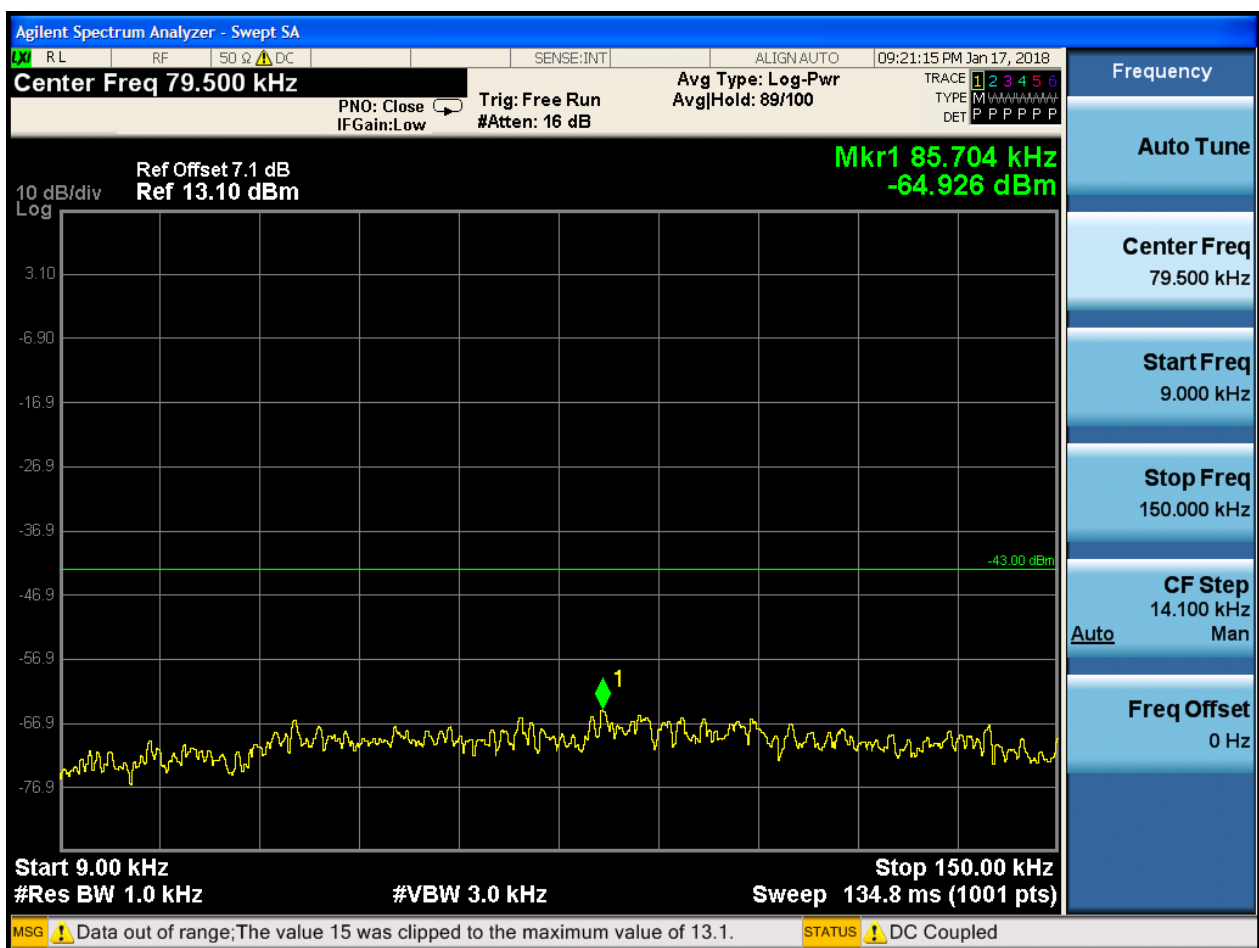
#### 6.1.1 Test Band = BAND4

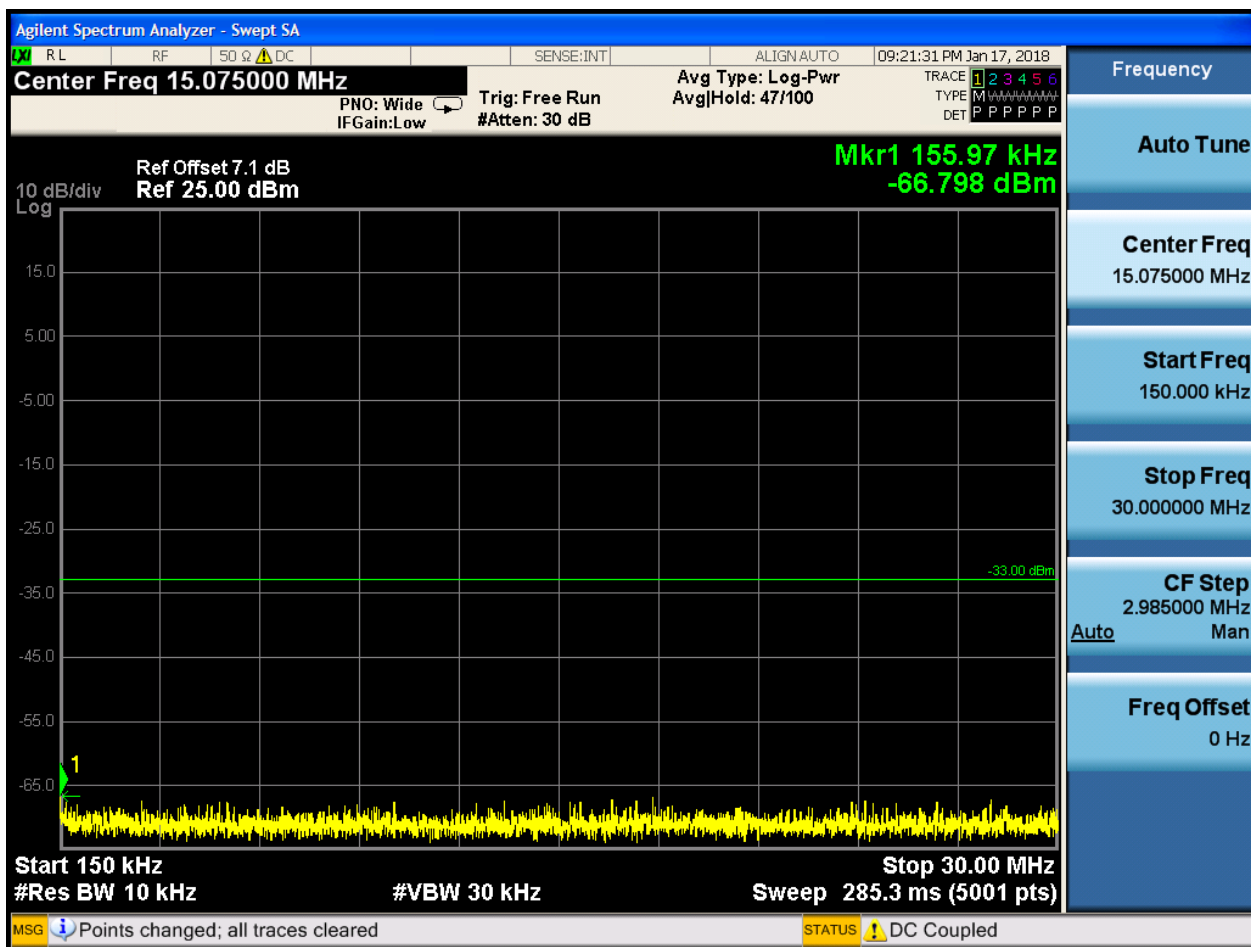
##### 6.1.1.1 Test Mode = LTE/TM1

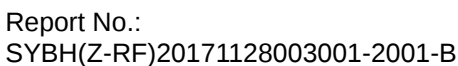
##### 6.1.1.1.1 Test Bandwidth = 1.4

##### 6.1.1.1.1.1 Test Channel = LCH

##### 6.1.1.1.1.1.1 Test RB = RB1#0

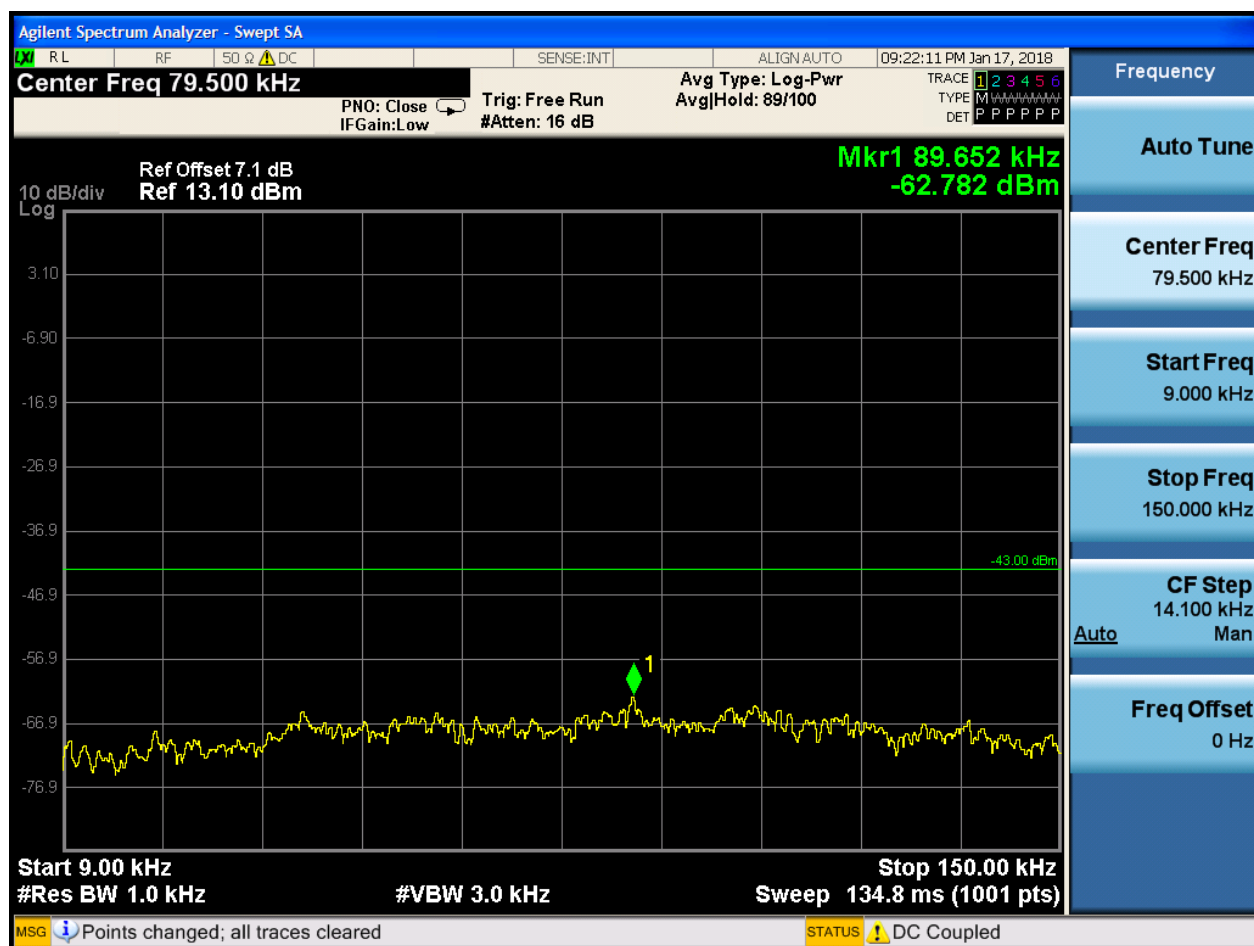


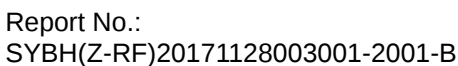


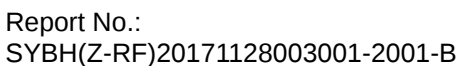




#### 6.1.1.1.1.2.1 Test RB = RB1#0

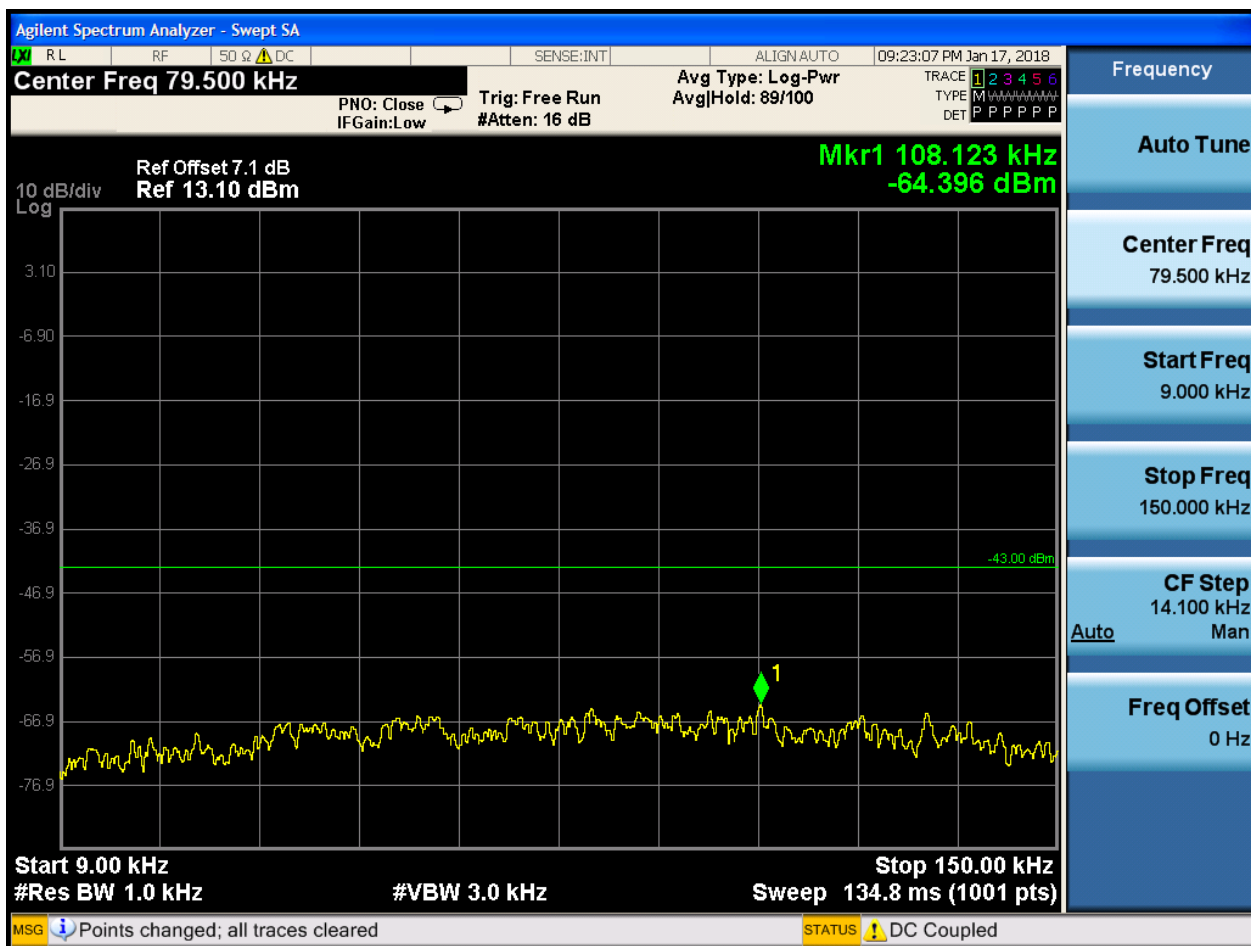


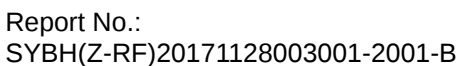


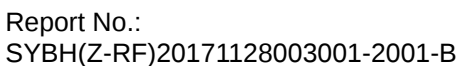


### 6.1.1.1.1.3 Test Channel = HCH

#### 6.1.1.1.1.3.1 Test RB = RB1#0



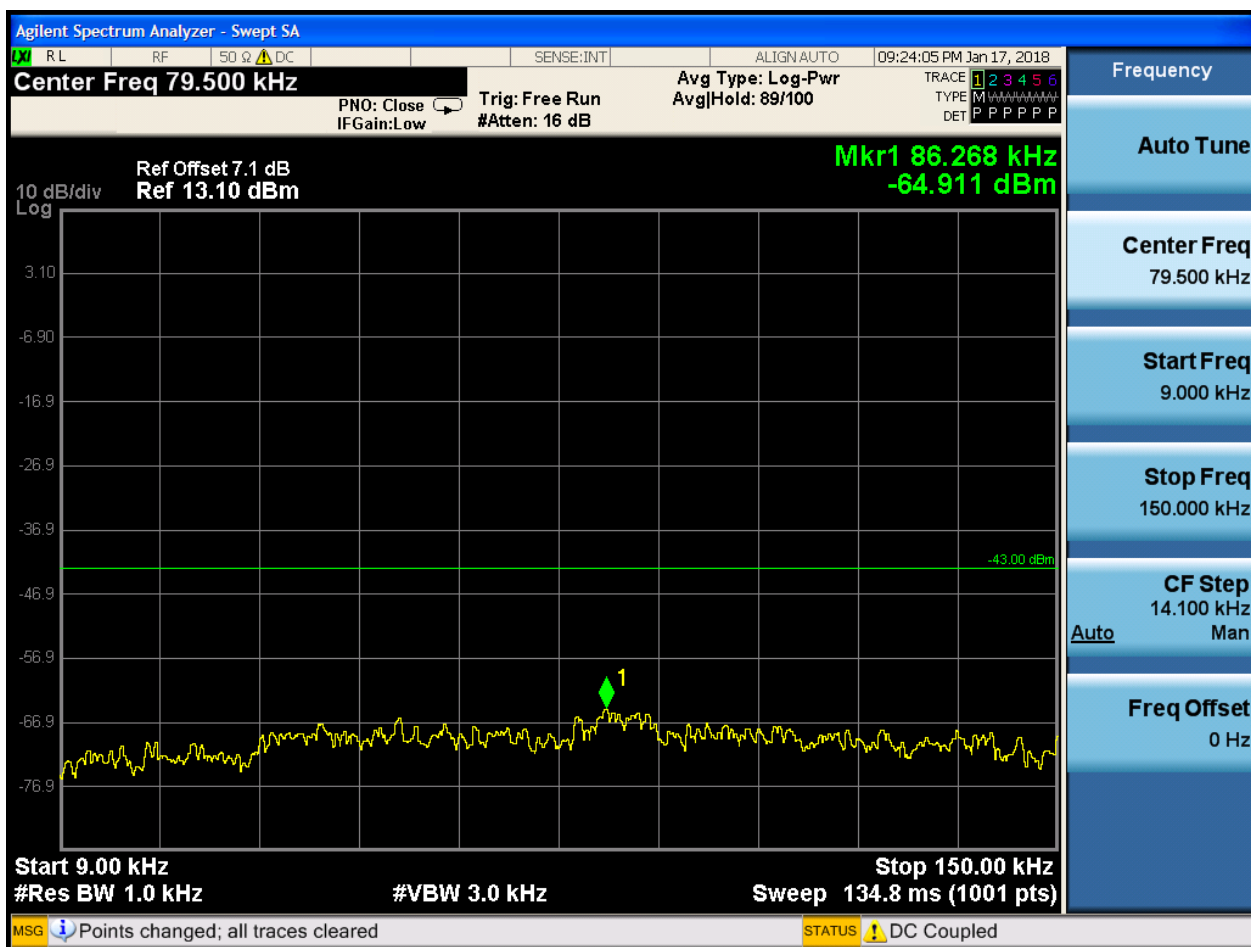


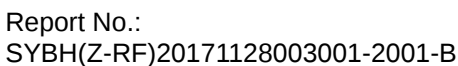


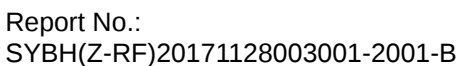
### 6.1.1.1.2 Test Bandwidth = 3

#### 6.1.1.1.2.1 Test Channel = LCH

##### 6.1.1.1.2.1.1 Test RB = RB1#0

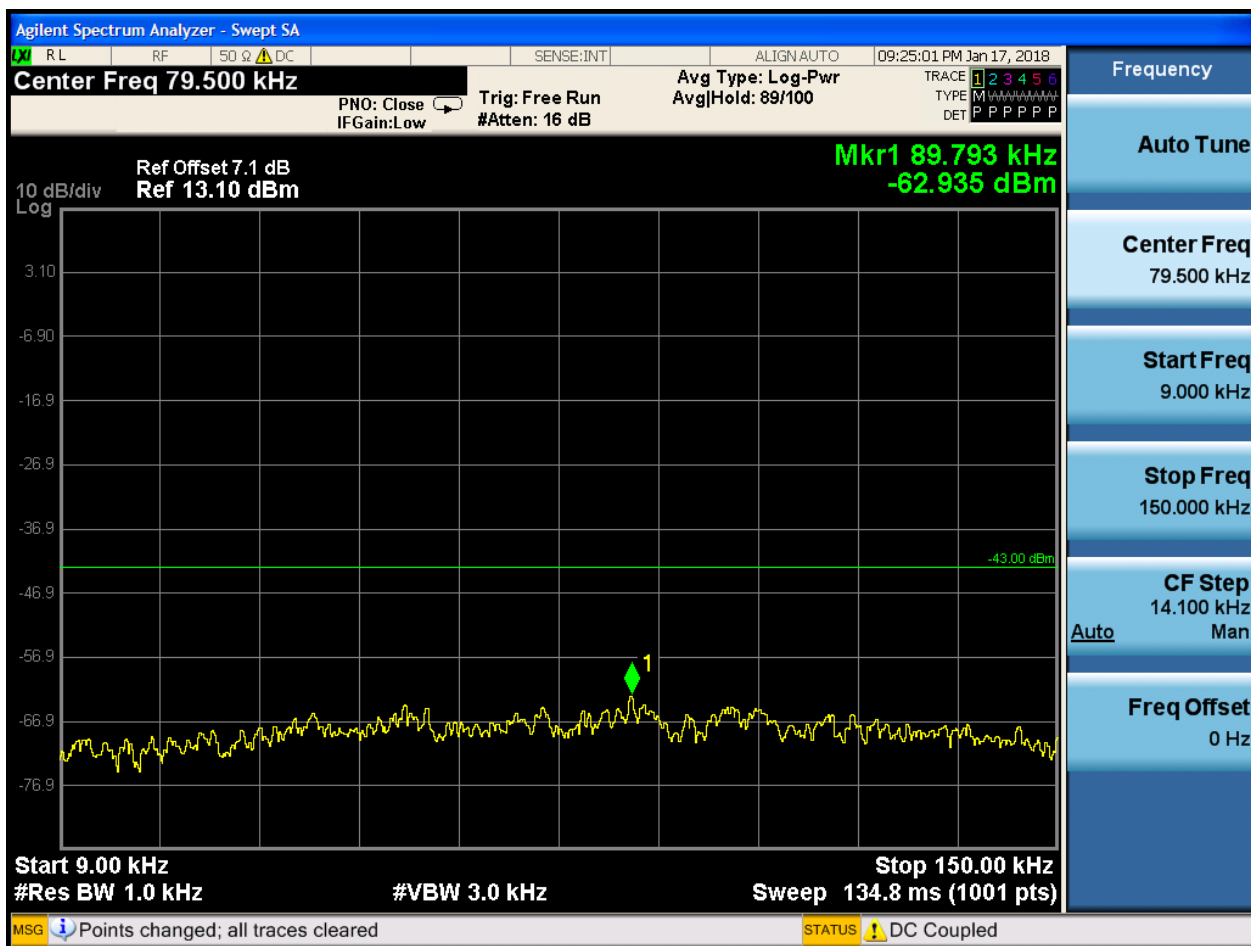


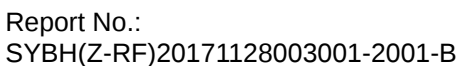


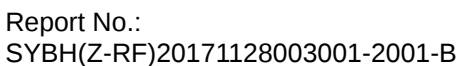


### 6.1.1.1.2.2 Test Channel = MCH

#### 6.1.1.1.2.2.1 Test RB = RB1#0

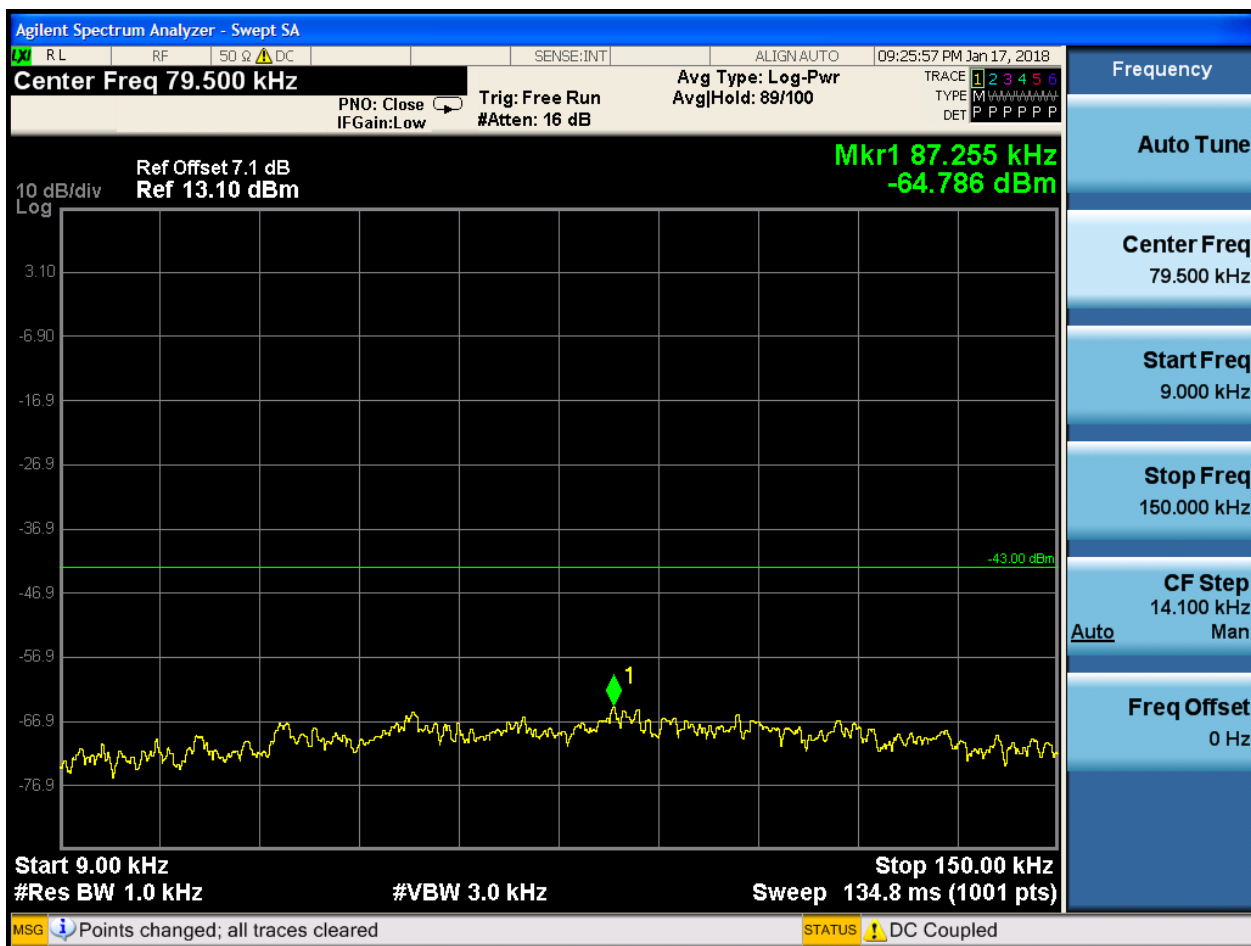


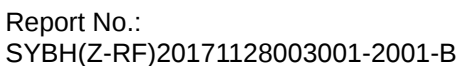


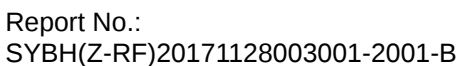


### 6.1.1.1.2.3 Test Channel = HCH

#### 6.1.1.1.2.3.1 Test RB = RB1#0



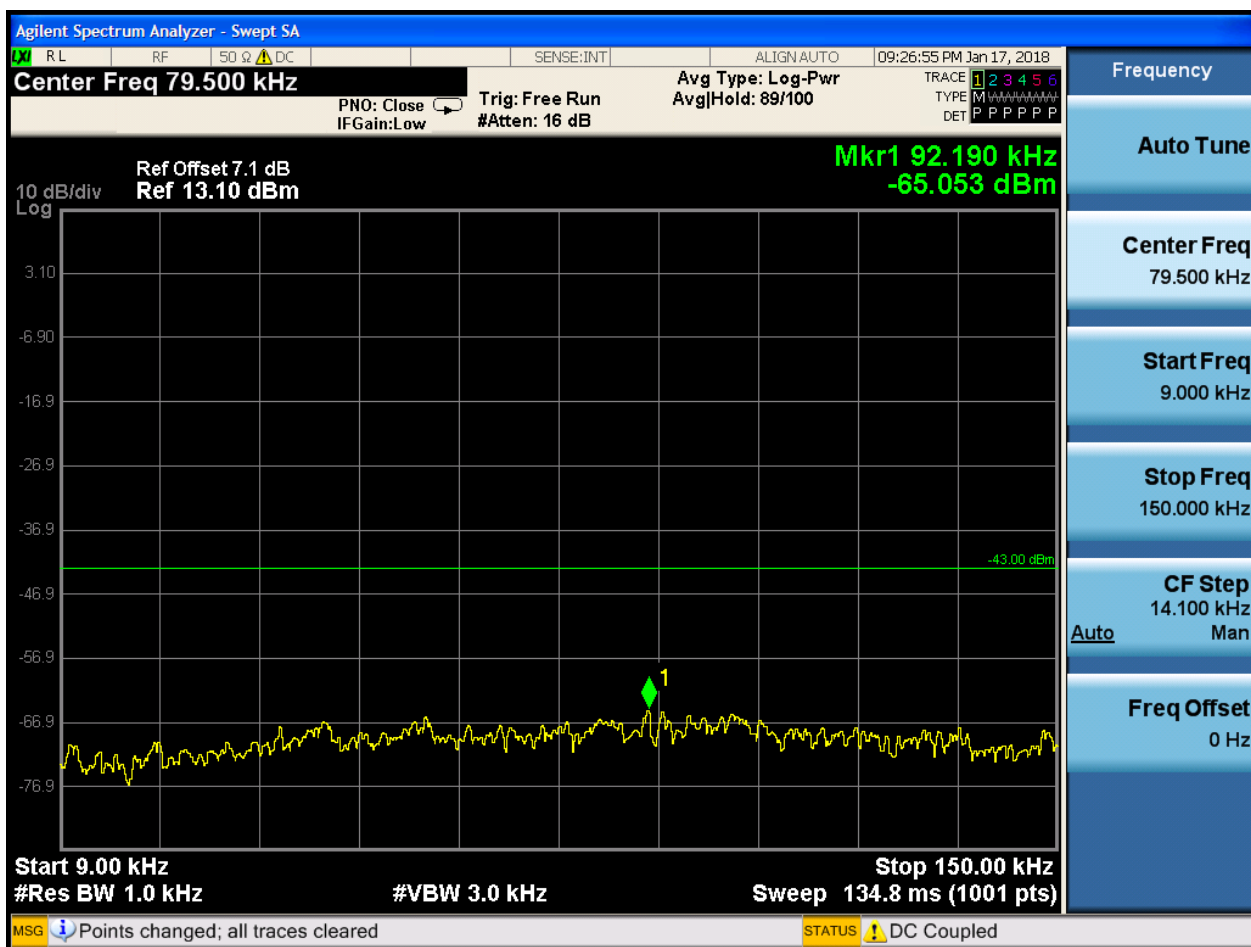


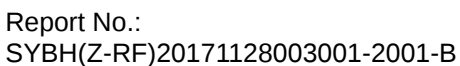


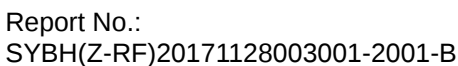
### 6.1.1.1.3 Test Bandwidth = 5

#### 6.1.1.1.3.1 Test Channel = LCH

##### 6.1.1.1.3.1.1 Test RB = RB1#0

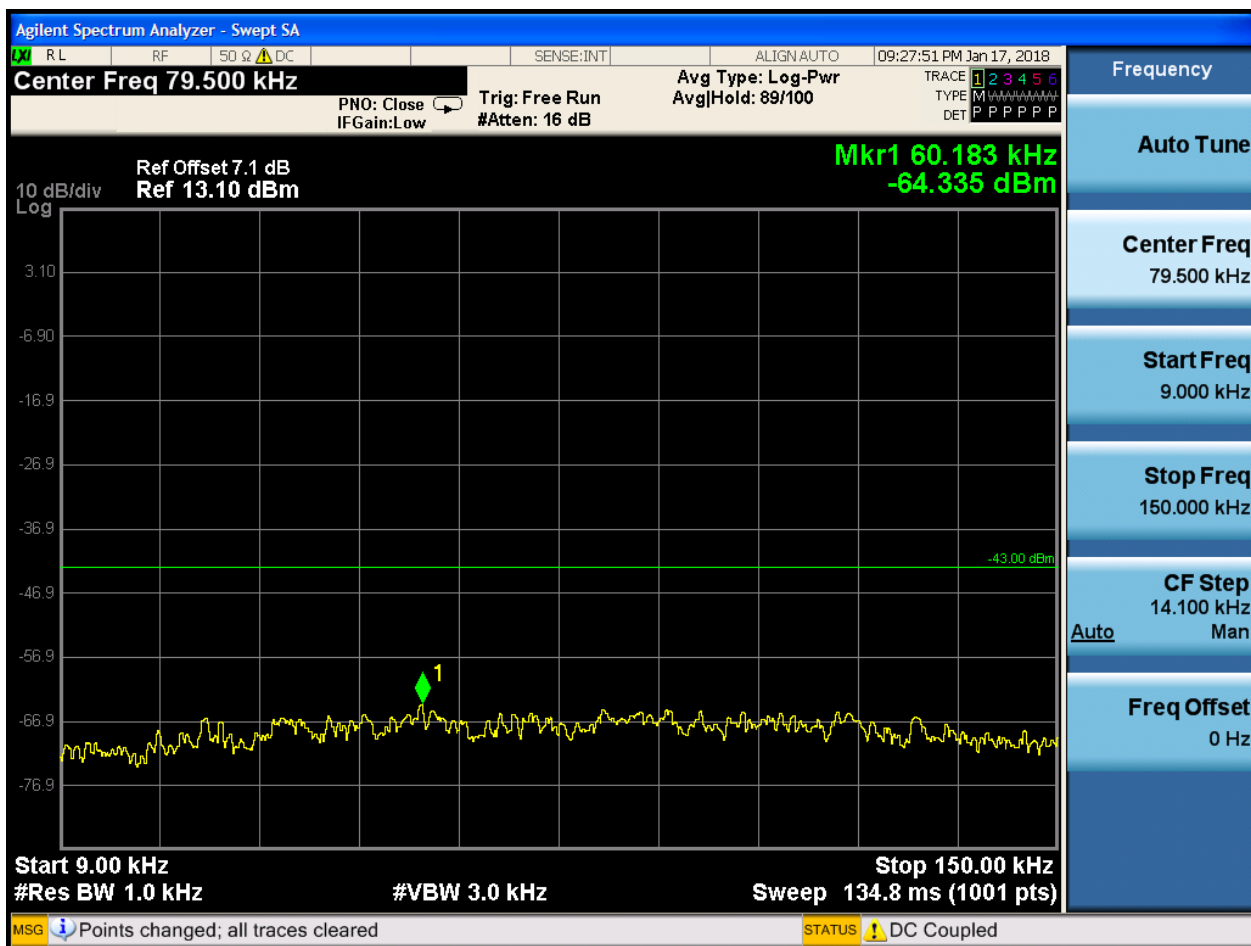


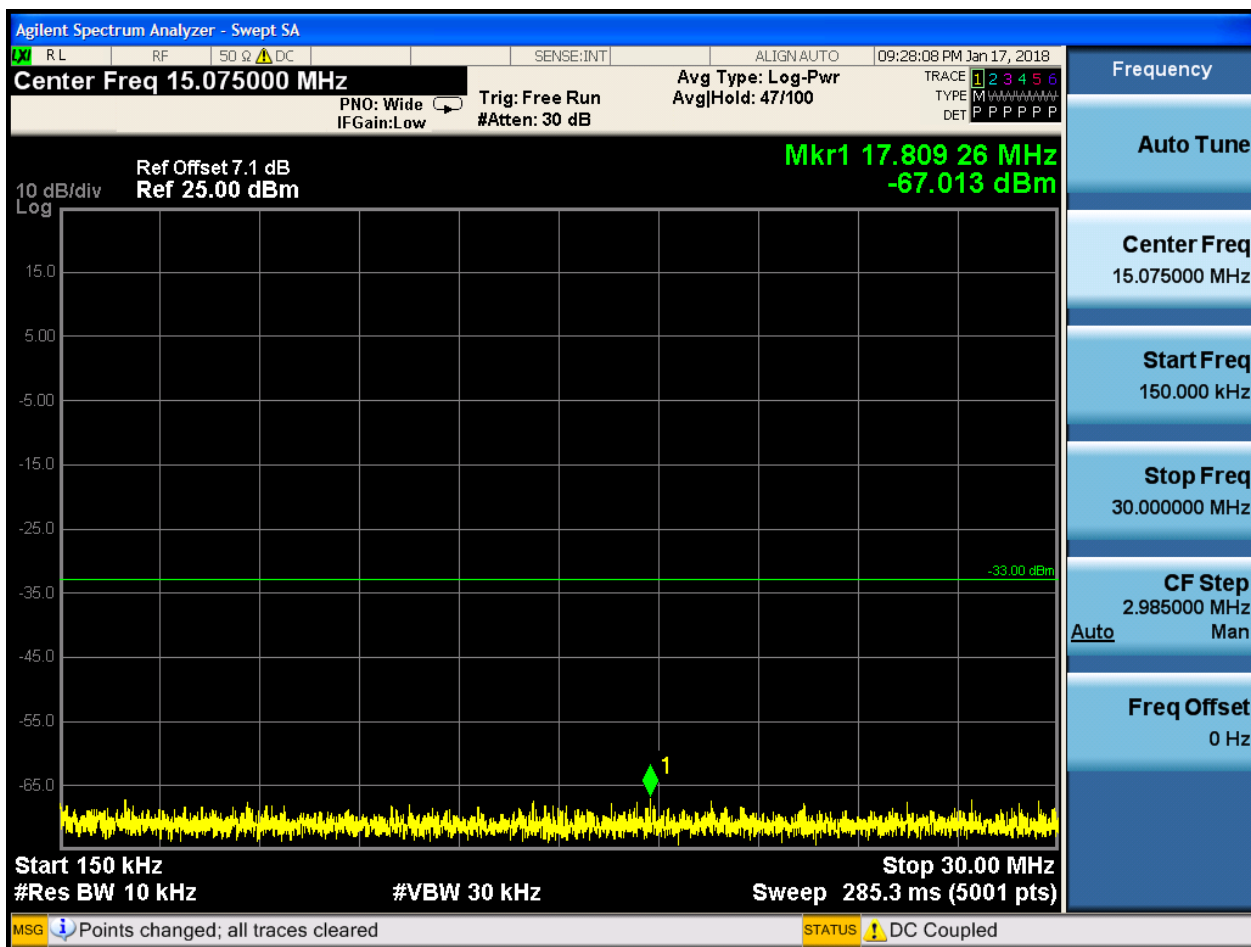


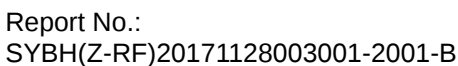


### 6.1.1.1.3.2 Test Channel = MCH

#### 6.1.1.1.3.2.1 Test RB = RB1#0

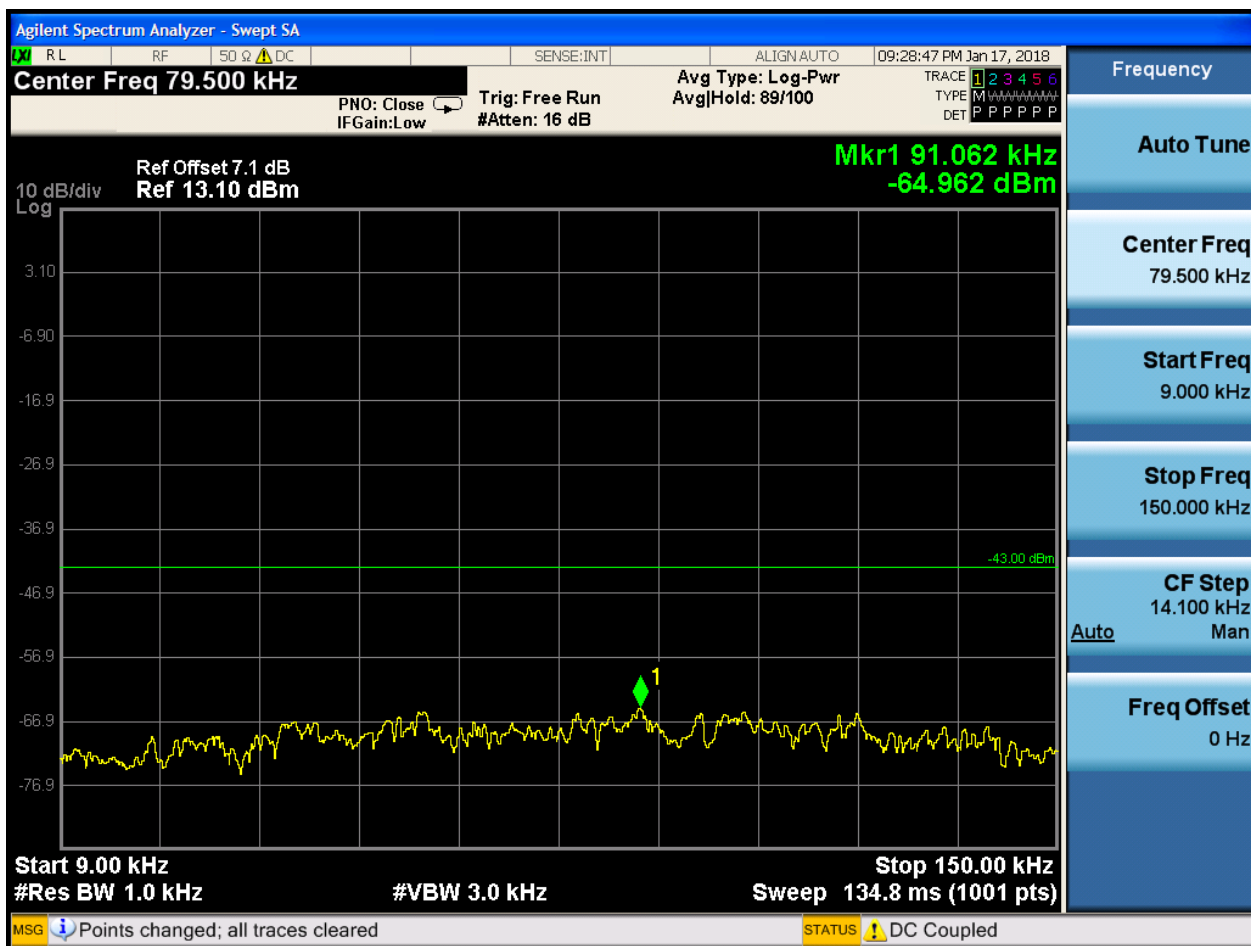


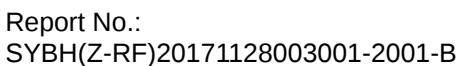


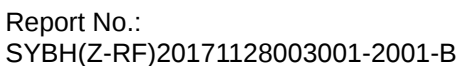


### 6.1.1.1.3.3 Test Channel = HCH

#### 6.1.1.1.3.3.1 Test RB = RB1#0



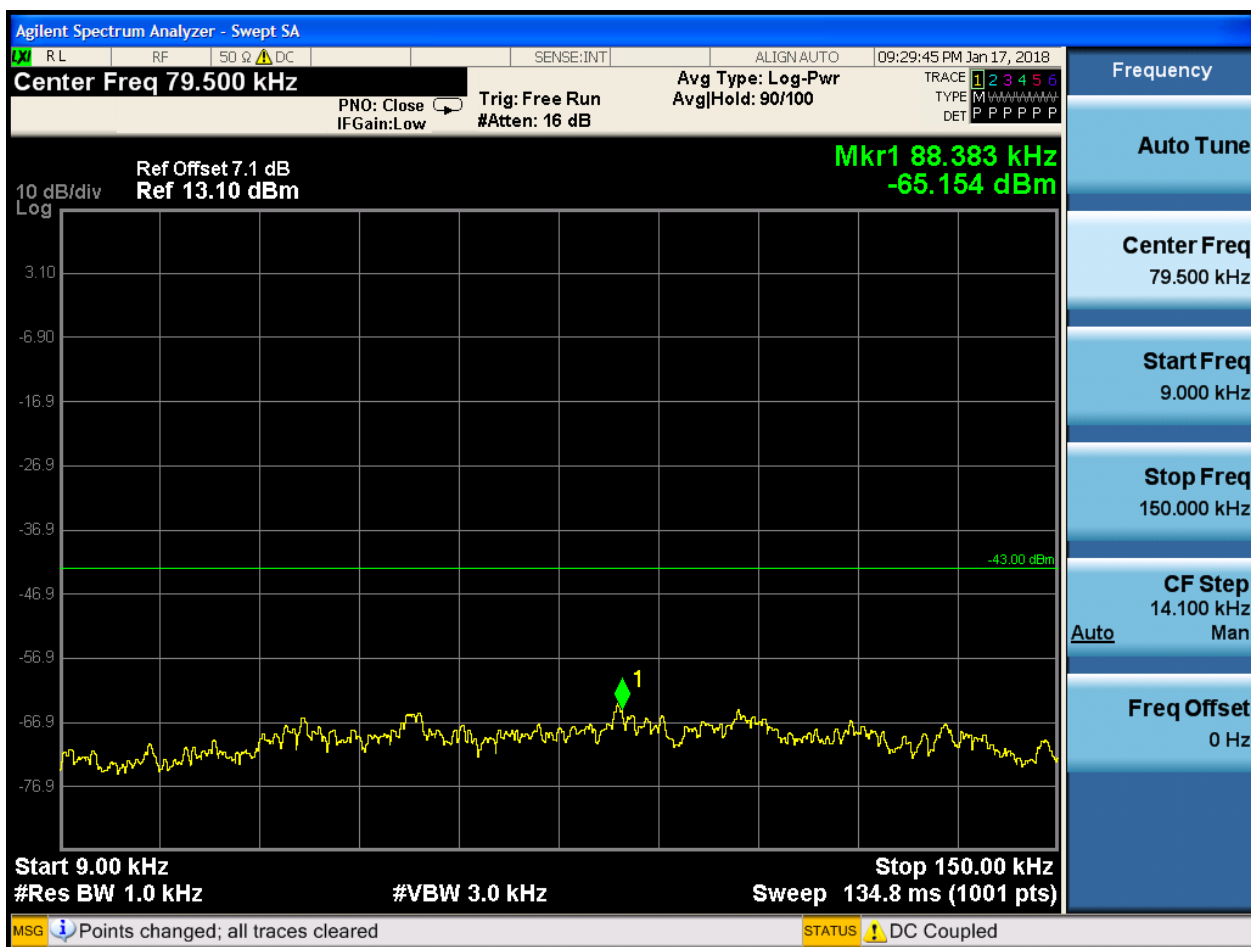


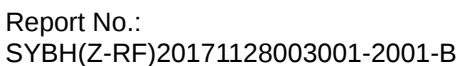


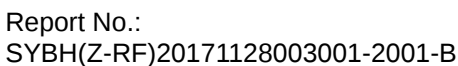
#### 6.1.1.1.4 Test Bandwidth = 10

##### 6.1.1.1.4.1 Test Channel = LCH

##### 6.1.1.1.4.1.1 Test RB = RB1#0



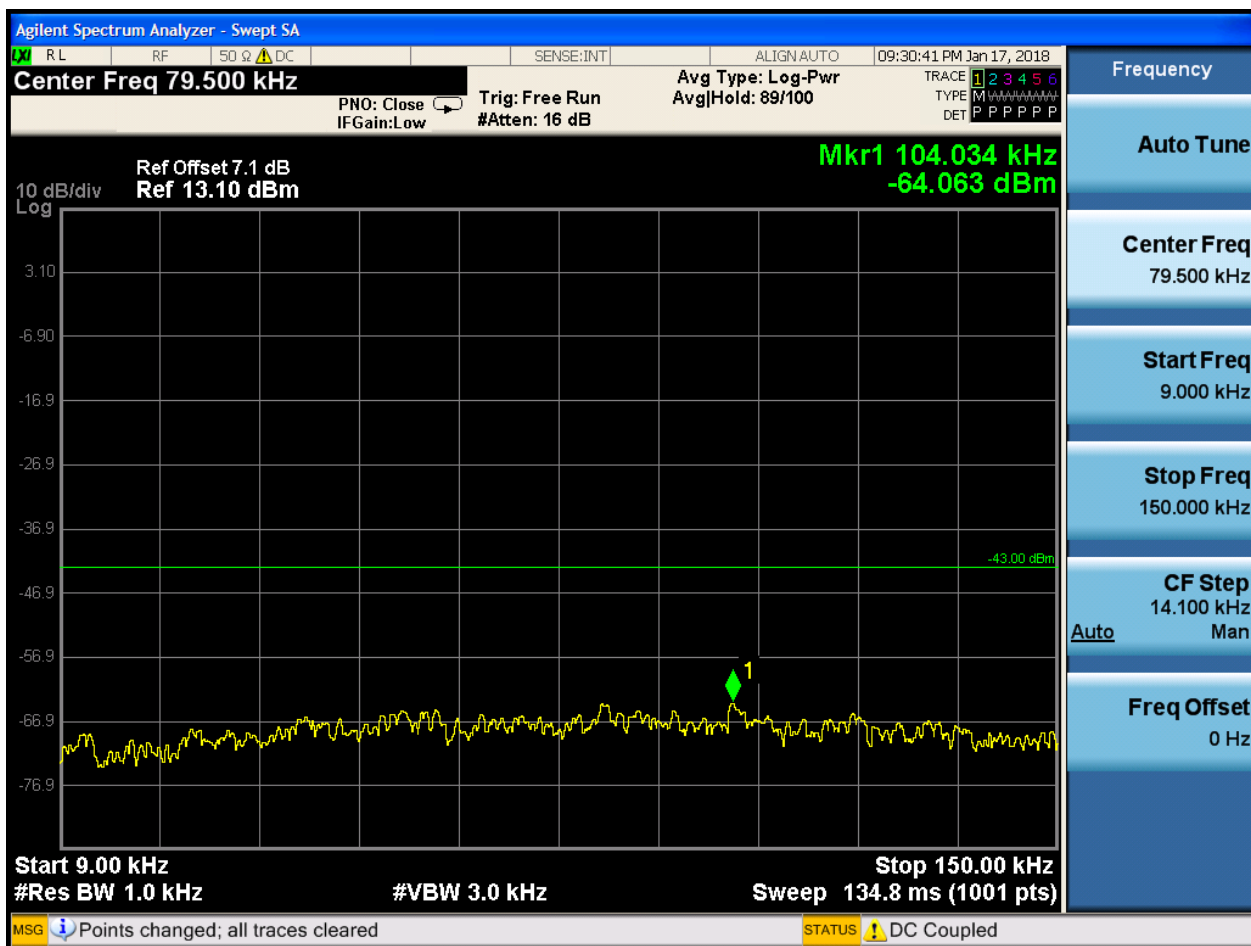


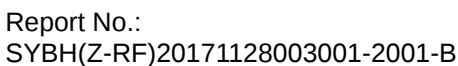


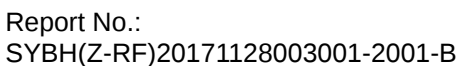


## 6.1.1.1.4.2 Test Channel = MCH

## 6.1.1.1.4.2.1 Test RB = RB1#0

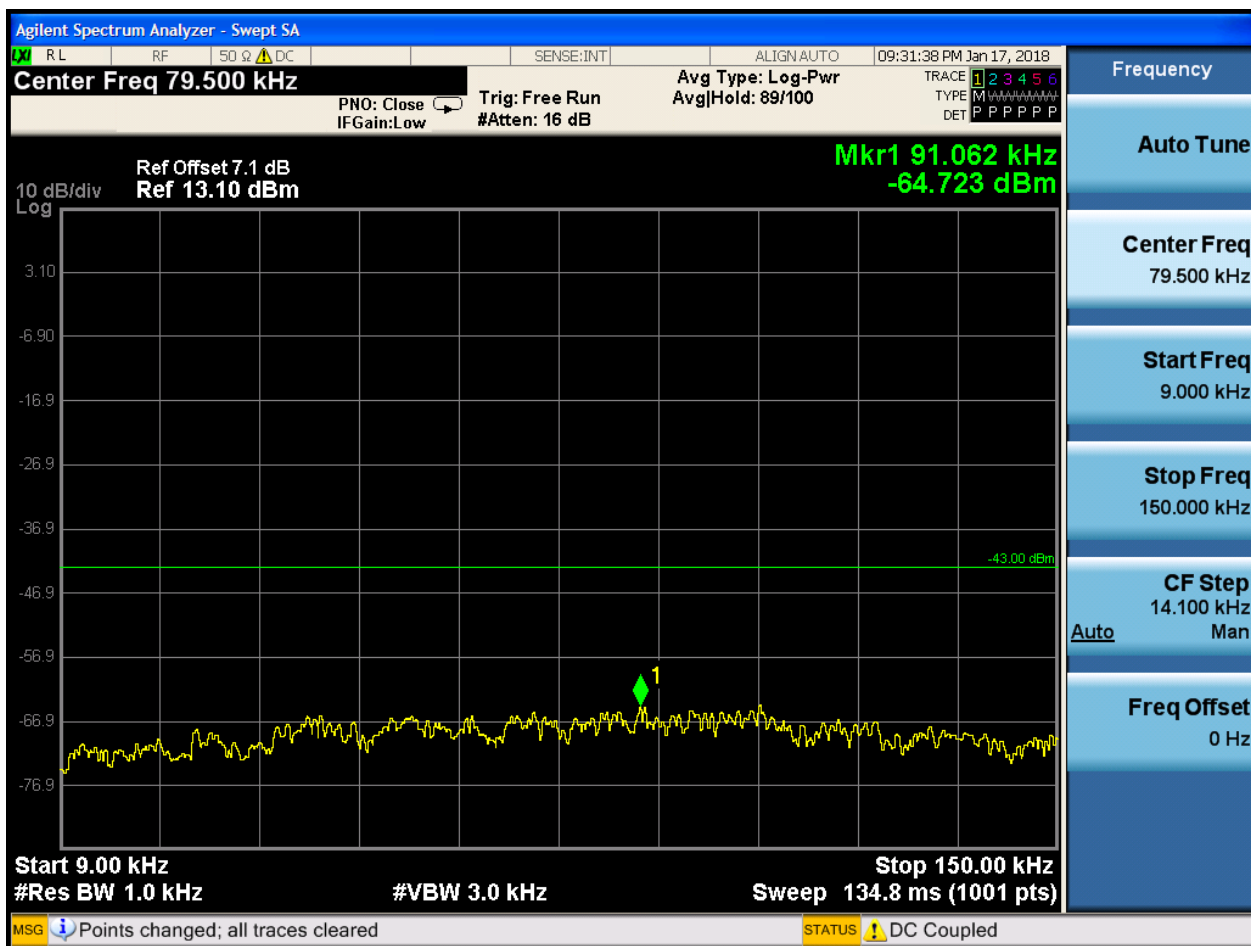


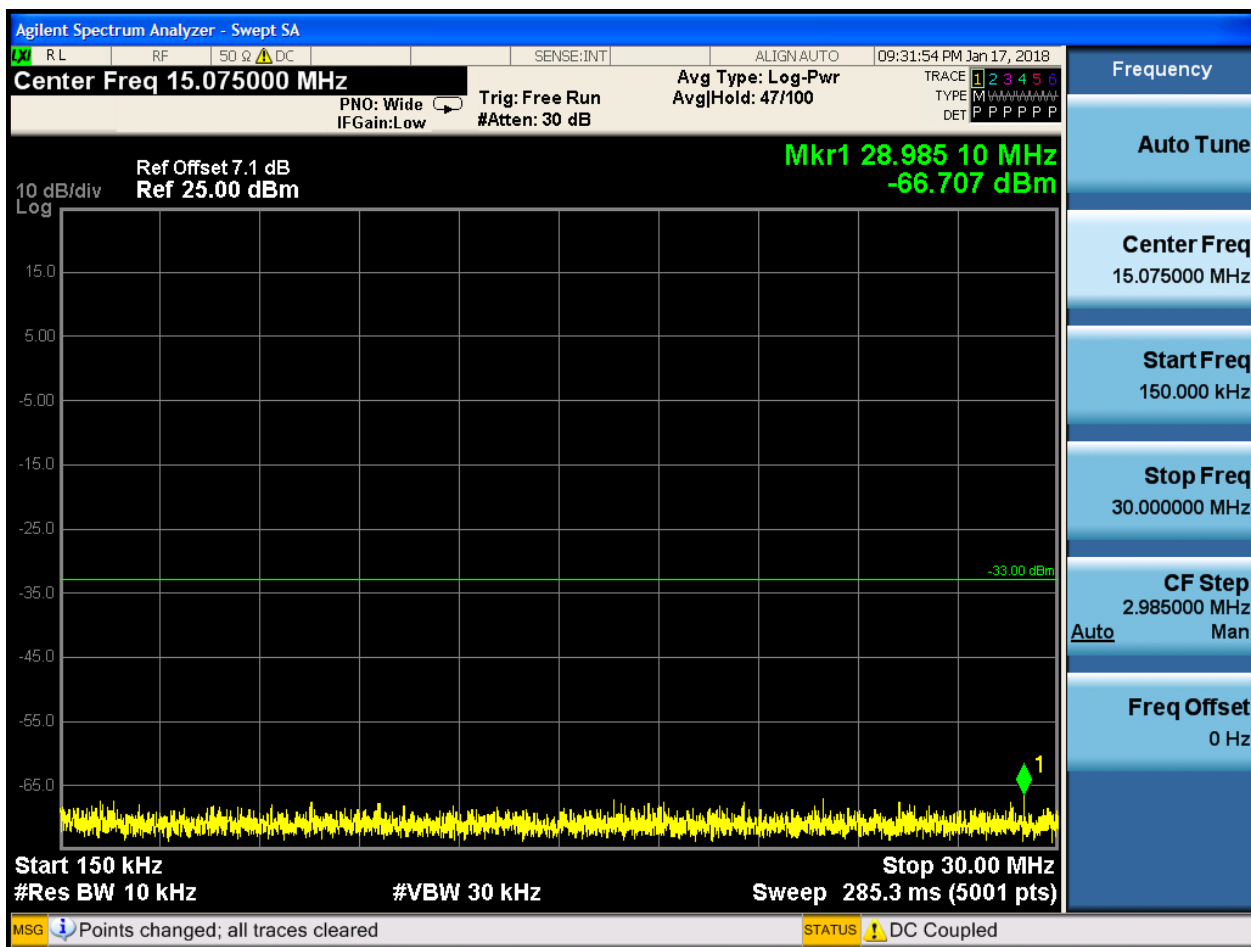


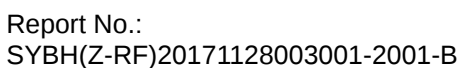


### 6.1.1.1.4.3 Test Channel = HCH

#### 6.1.1.1.4.3.1 Test RB = RB1#0





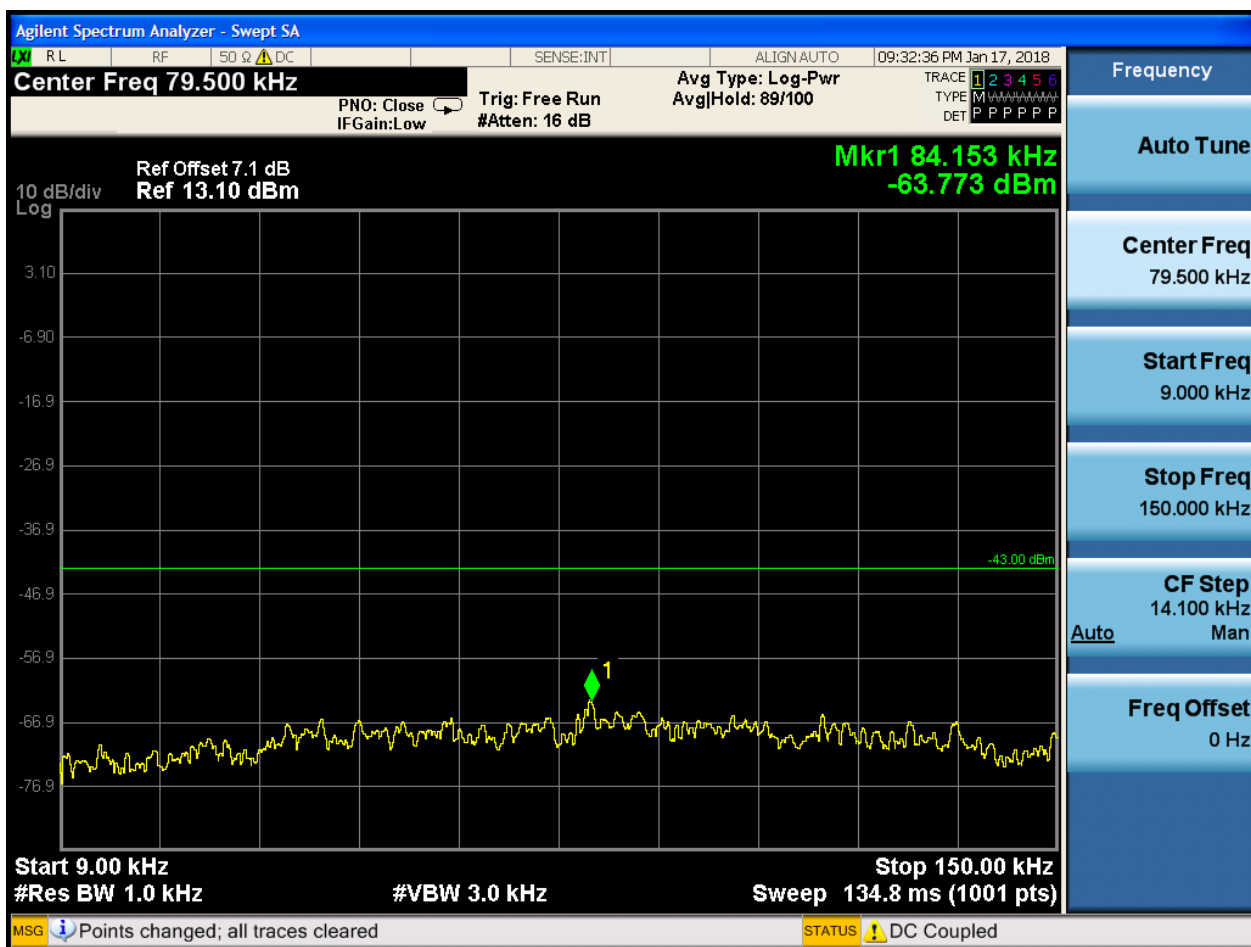


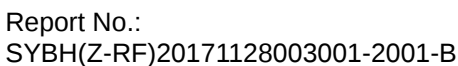


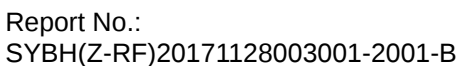
## 6.1.1.1.5 Test Bandwidth = 15

## 6.1.1.1.5.1 Test Channel = LCH

## 6.1.1.1.5.1.1 Test RB = RB1#0

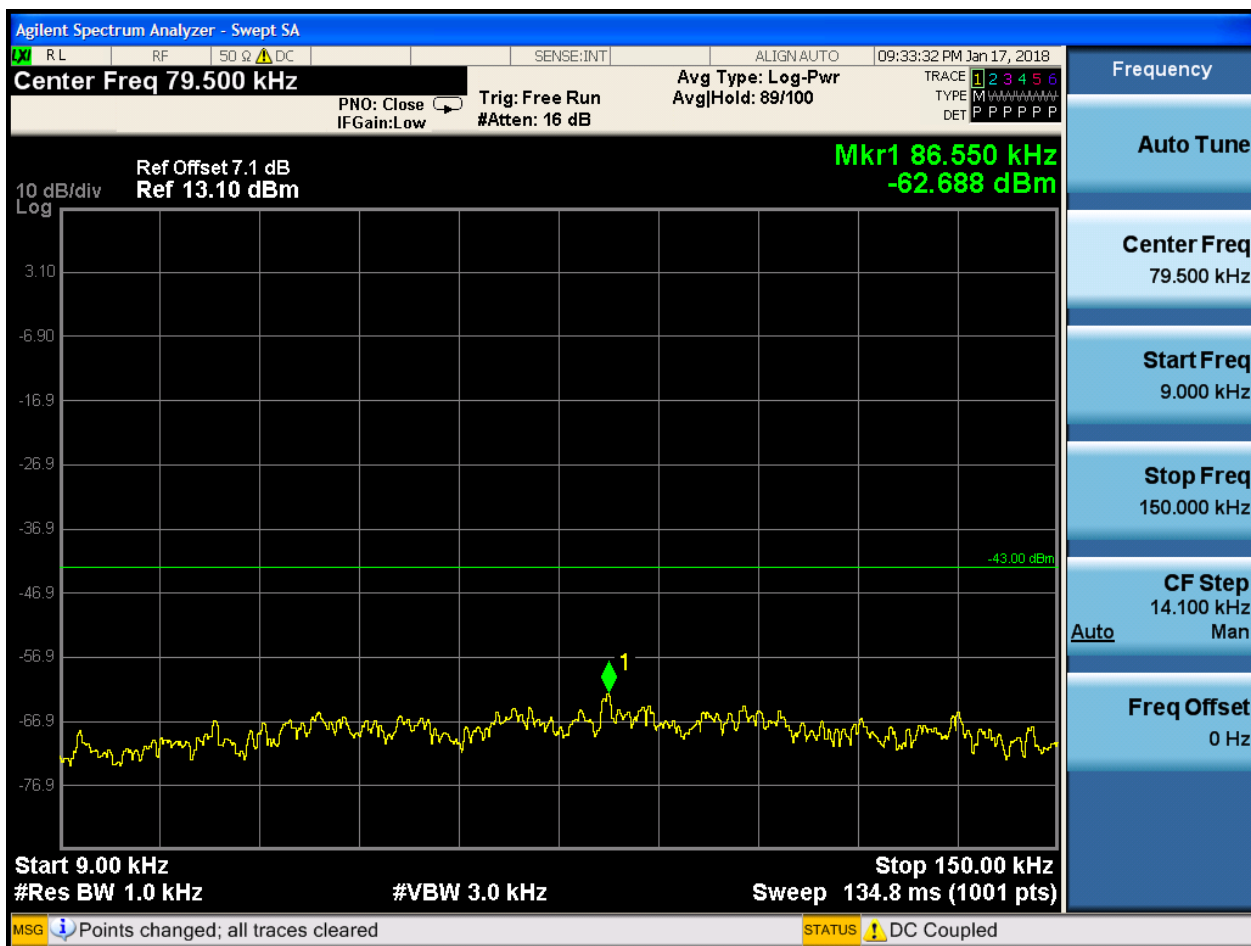


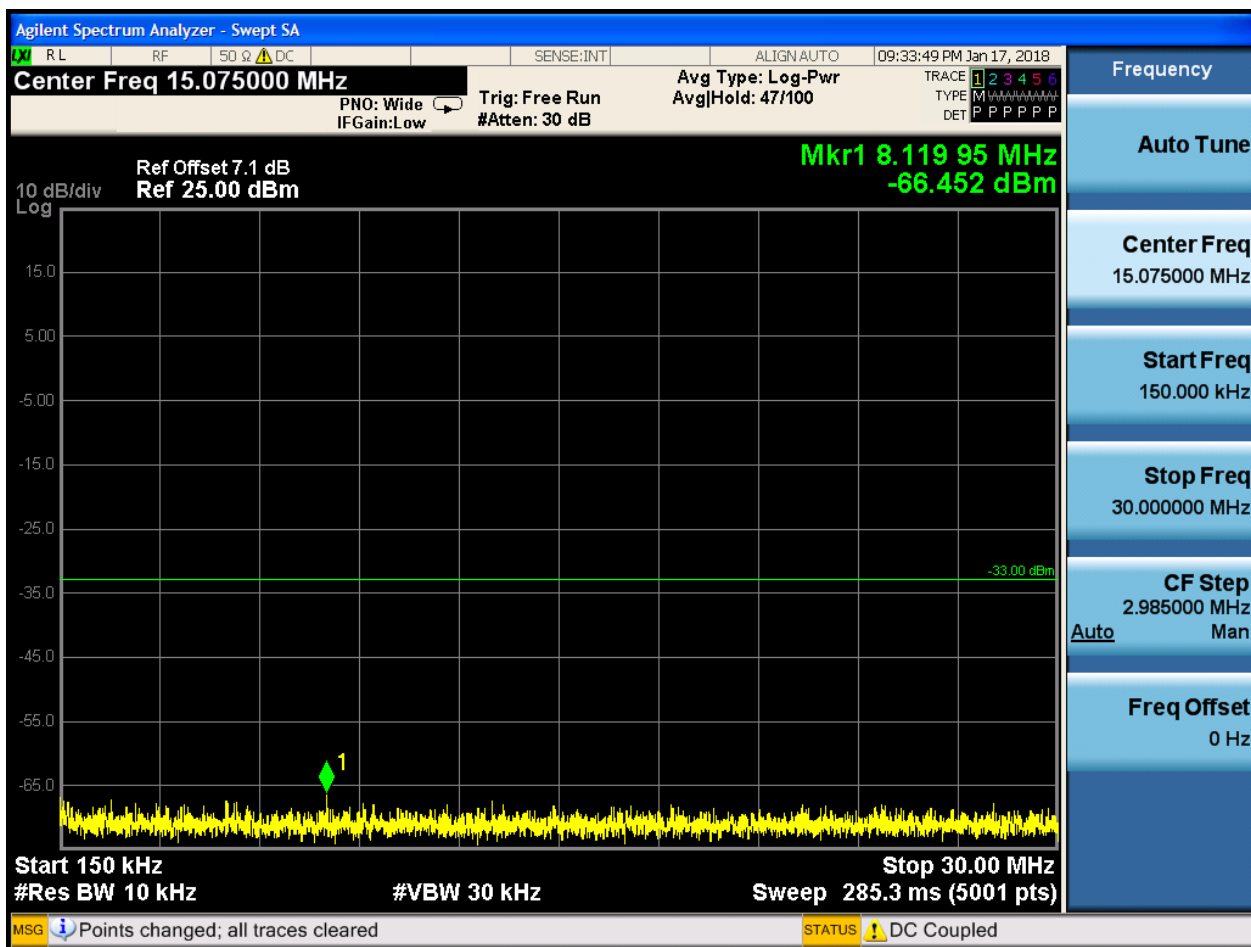


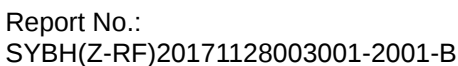


### 6.1.1.1.5.2 Test Channel = MCH

#### 6.1.1.1.5.2.1 Test RB = RB1#0

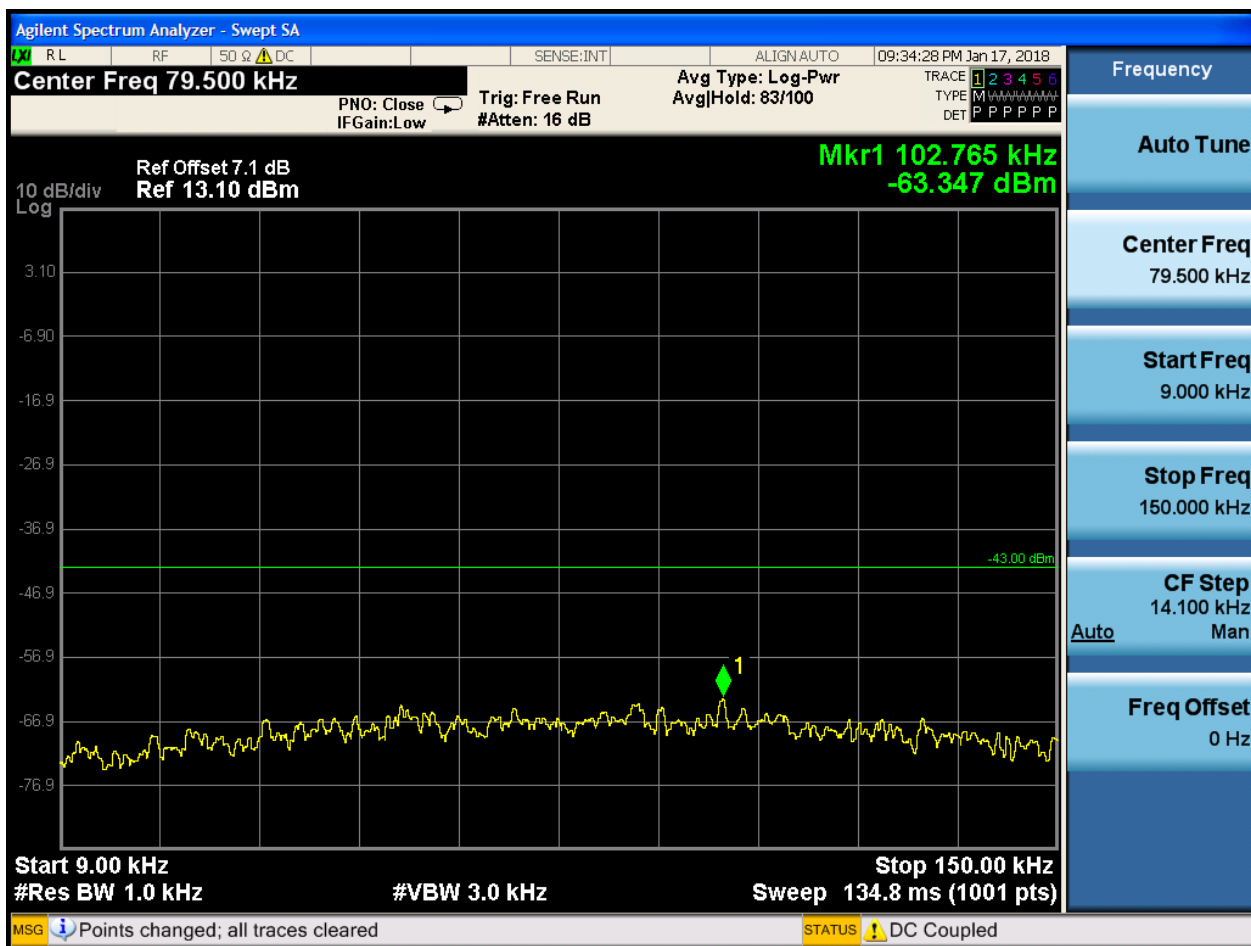


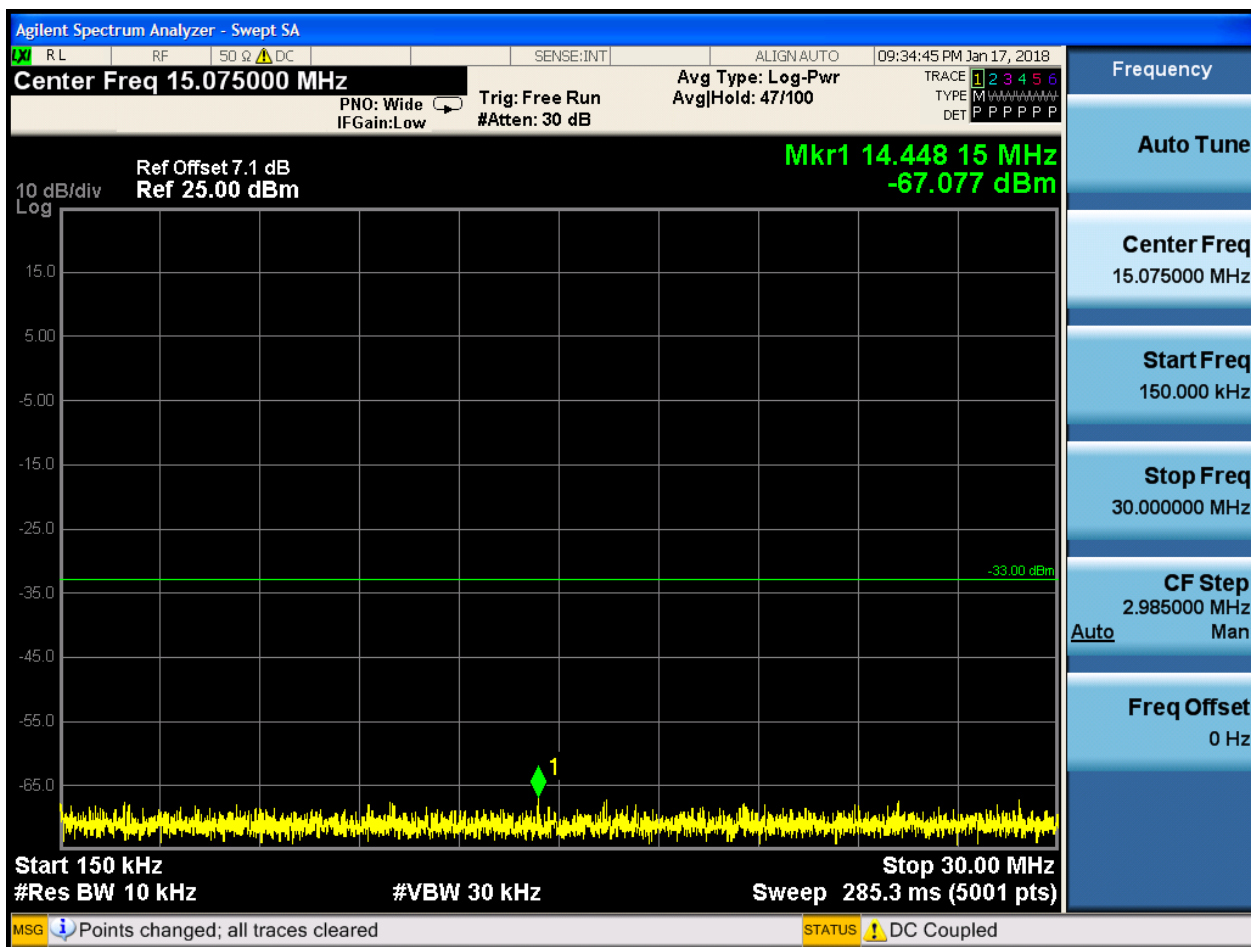


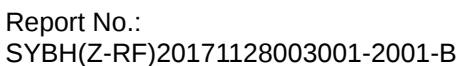


### 6.1.1.1.5.3 Test Channel = HCH

#### 6.1.1.1.5.3.1 Test RB = RB1#0



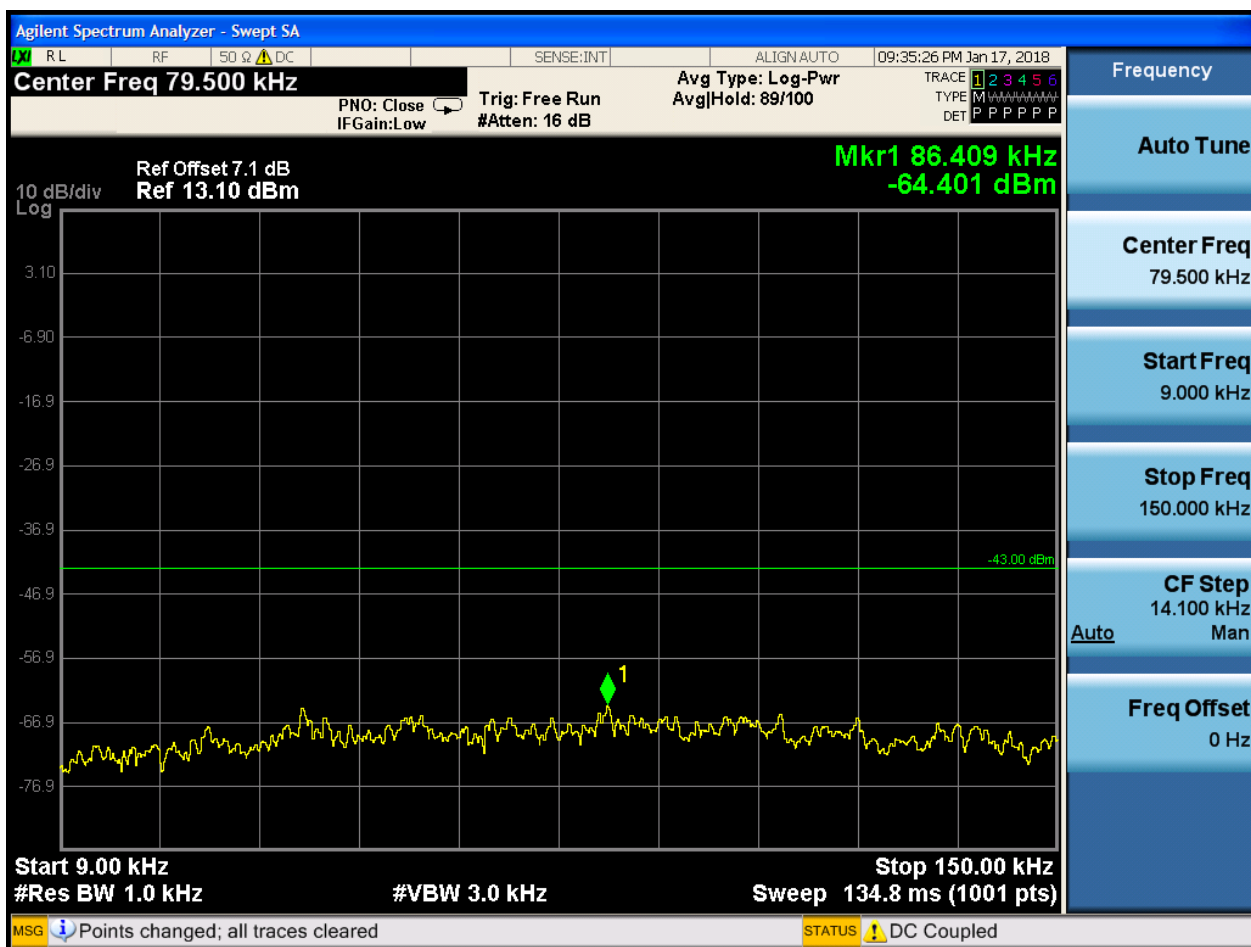


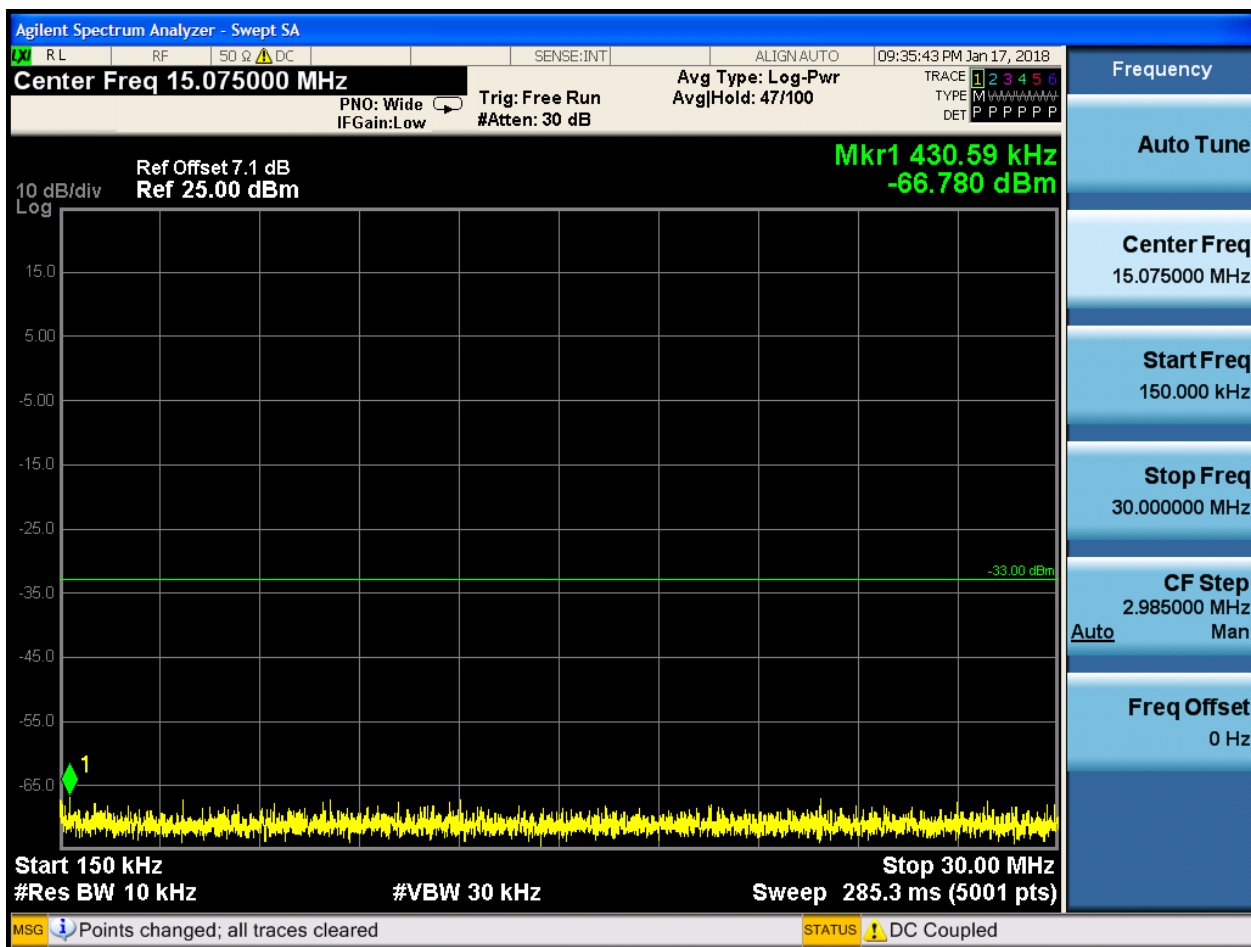


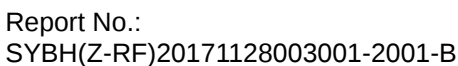
### 6.1.1.1.6 Test Bandwidth = 20

#### 6.1.1.1.6.1 Test Channel = LCH

##### 6.1.1.1.6.1.1 Test RB = RB1#0







### 6.1.1.1.6.2 Test Channel = MCH

#### 6.1.1.1.6.2.1 Test RB = RB1#0

