



5.1.1.2.6.2.3 Test RB = RB50#25





5.1.1.2.6.2.4 Test RB = RB100#0





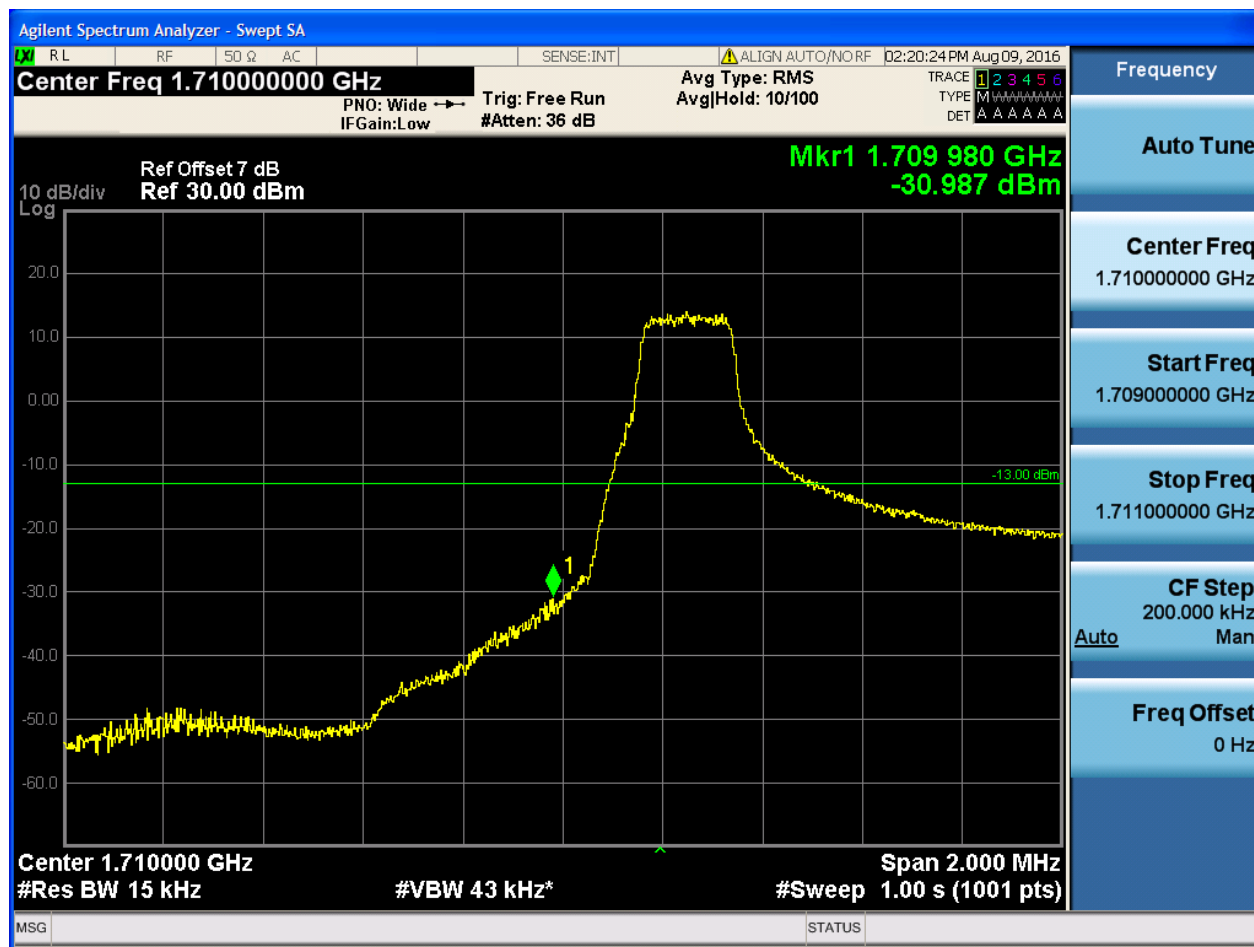
5.1.2 Test Band = BAND4

5.1.2.1 Test Mode = LTE/TM1

5.1.2.1.1 Test Bandwidth = 1.4

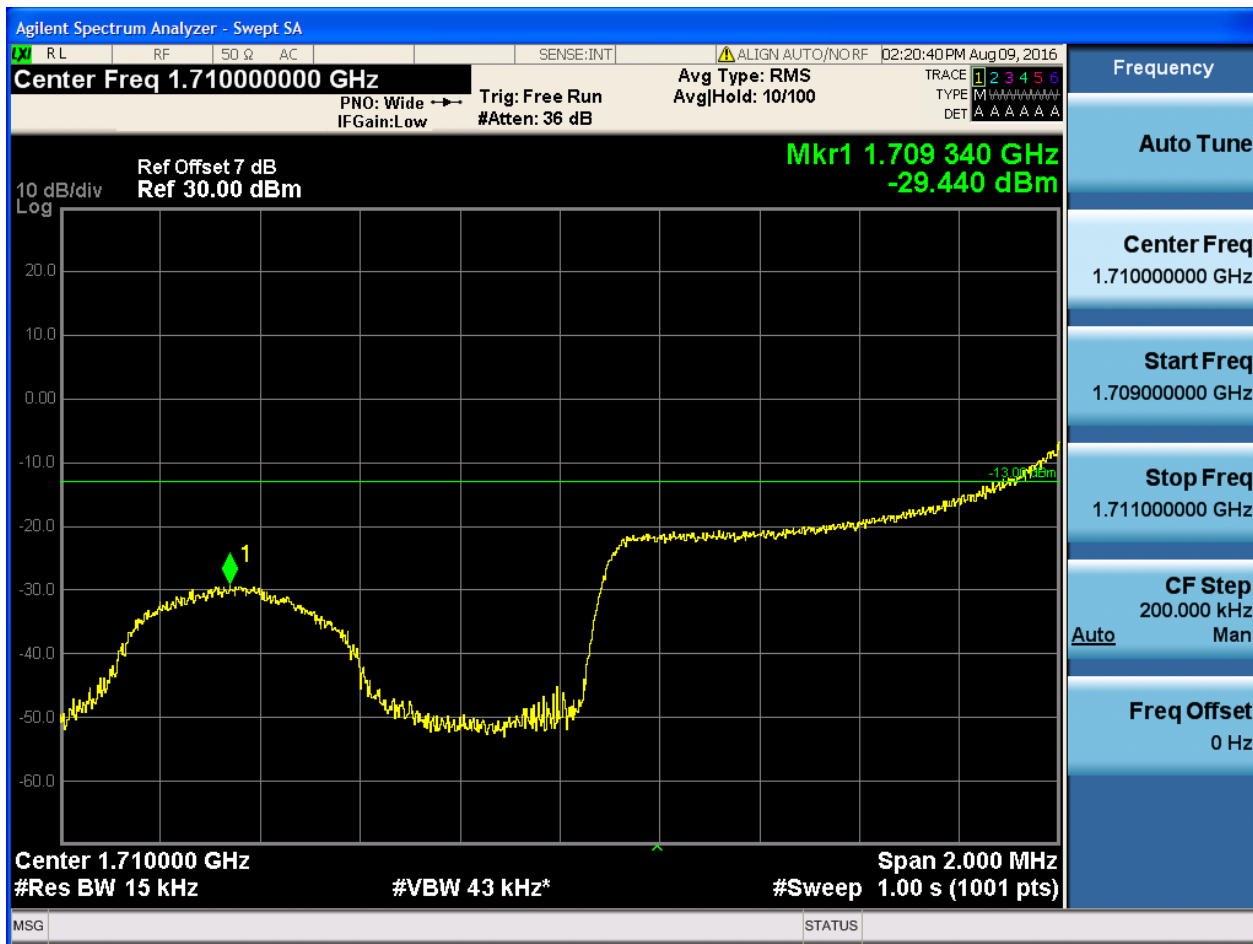
5.1.2.1.1.1 Test Channel = LCH

5.1.2.1.1.1.1 Test RB = RB1#0



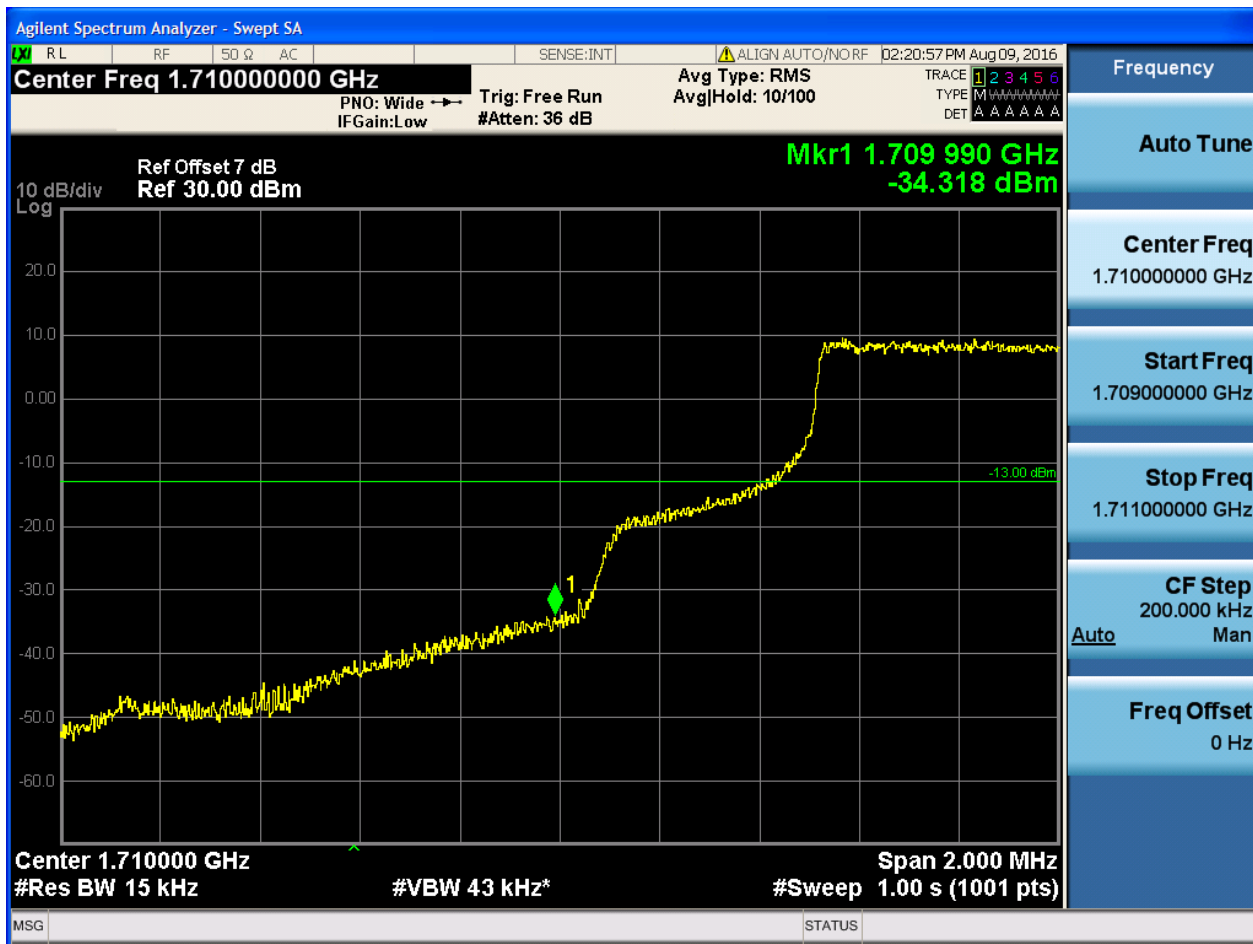


5.1.2.1.1.2 Test RB = RB1#5



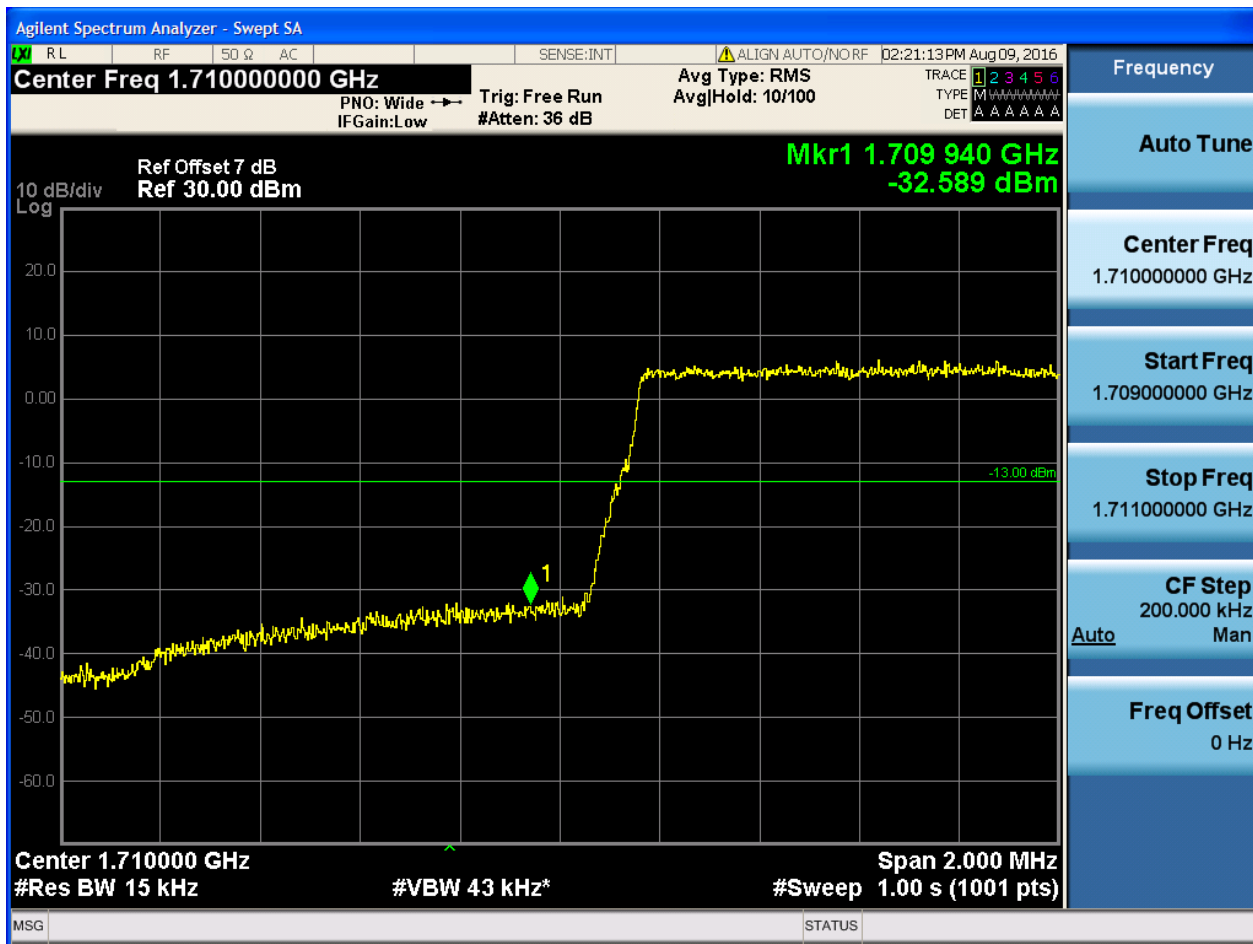


5.1.2.1.1.3 Test RB = RB3#2



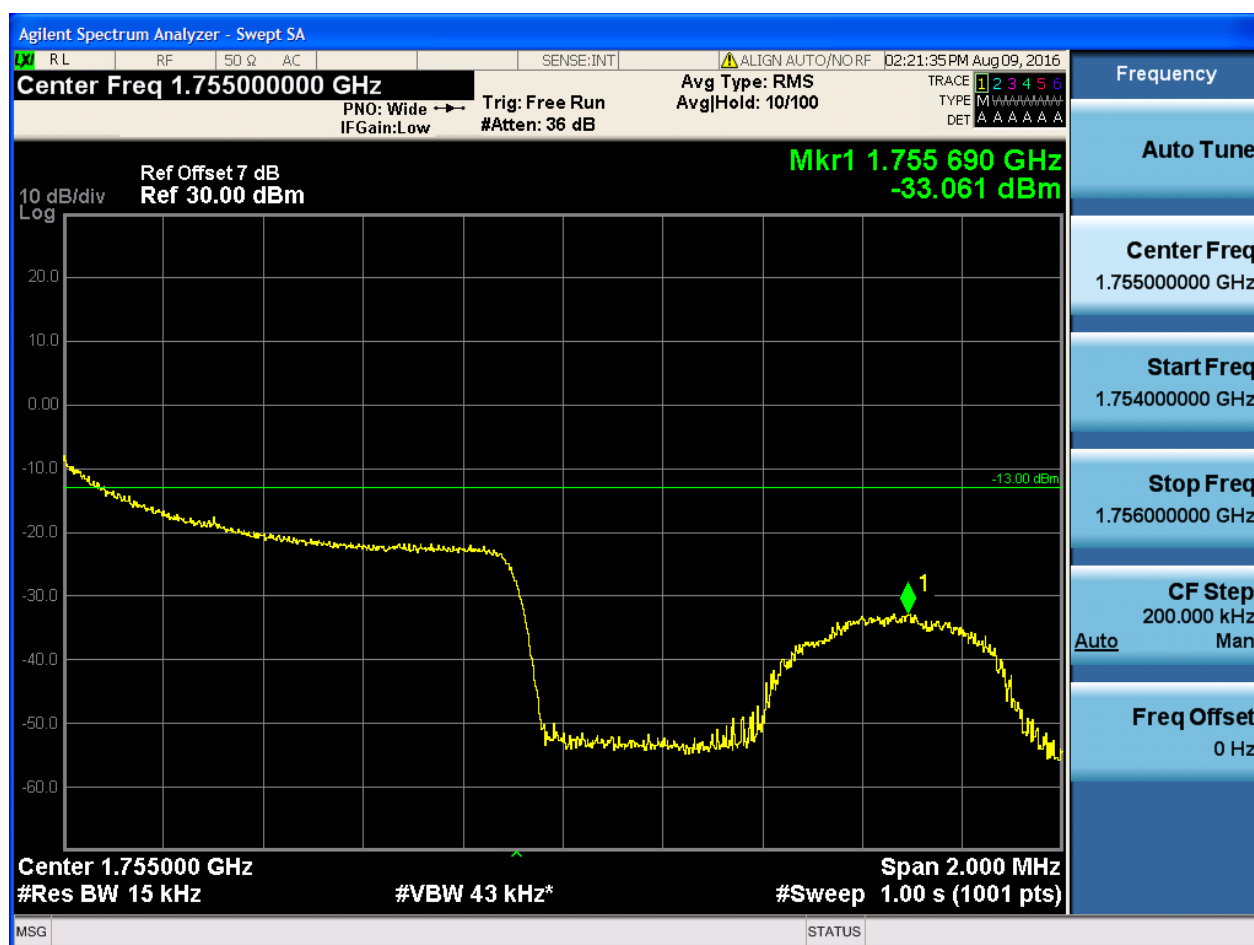


5.1.2.1.1.1.4 Test RB = RB6#0



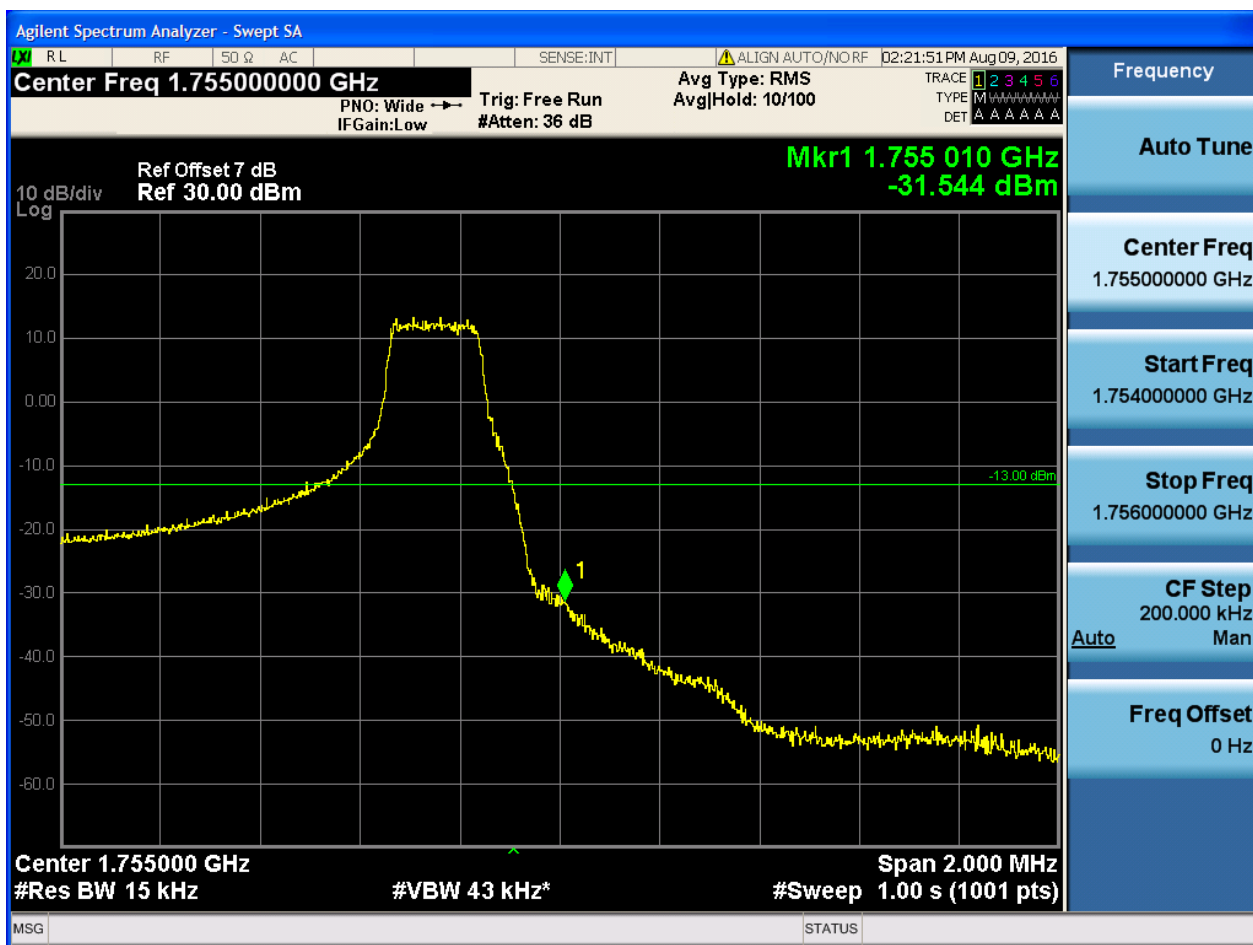
5.1.2.1.1.2 Test Channel = HCH

5.1.2.1.1.2.1 Test RB = RB1#0





5.1.2.1.1.2.2 Test RB = RB1#5





5.1.2.1.1.2.3 Test RB = RB3#2





5.1.2.1.1.2.4 Test RB = RB6#0

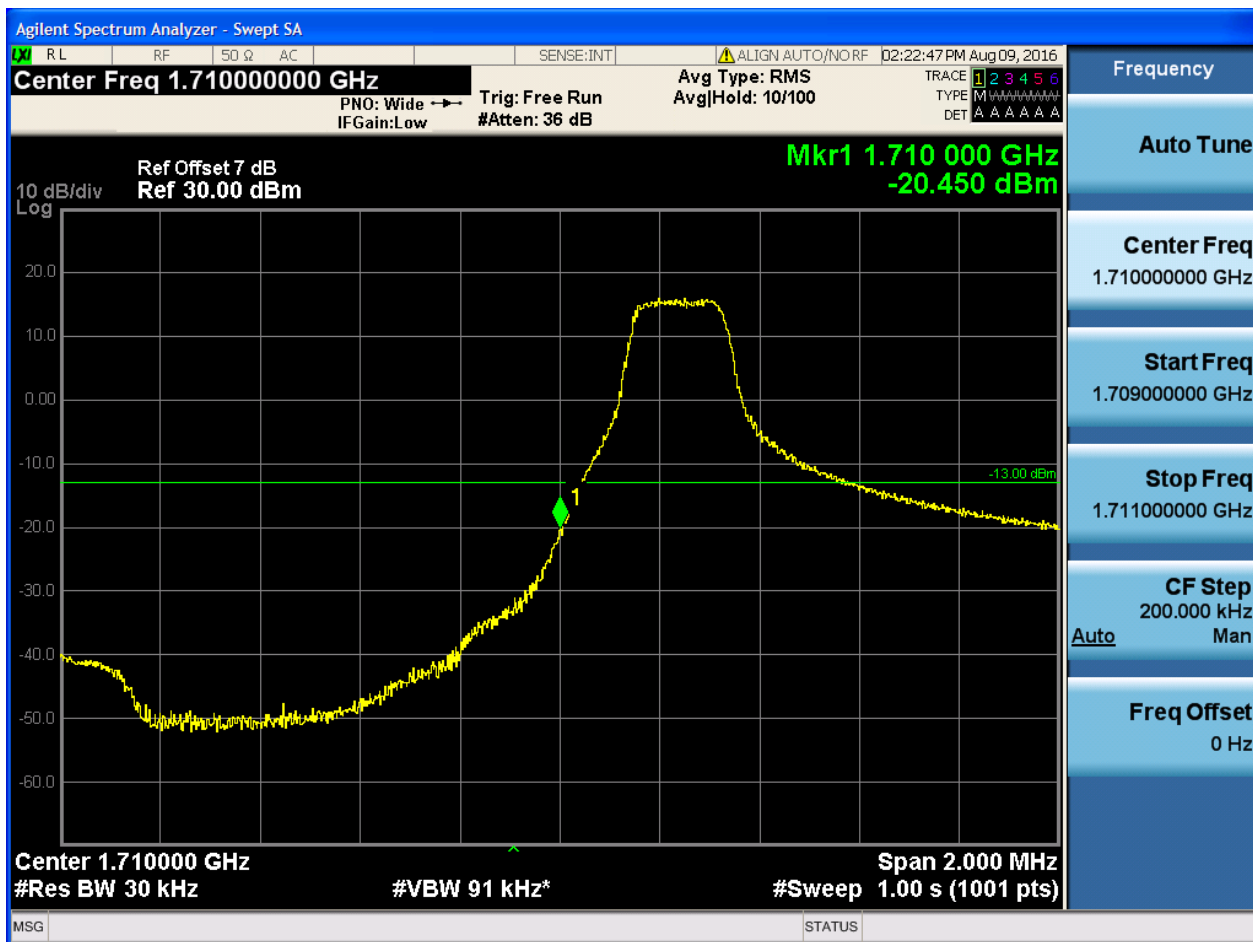




5.1.2.1.2 Test Bandwidth = 3

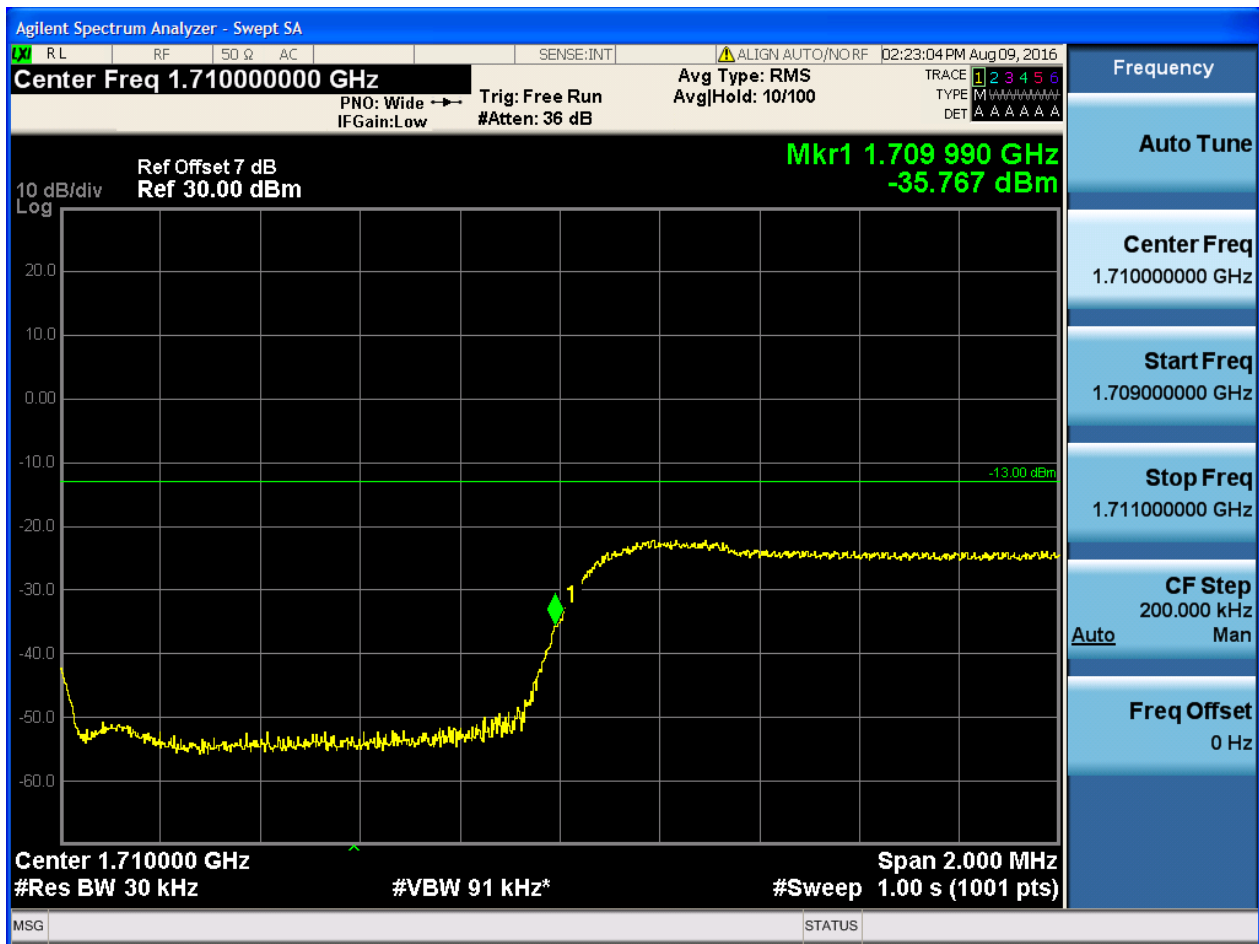
5.1.2.1.2.1 Test Channel = LCH

5.1.2.1.2.1.1 Test RB = RB1#0



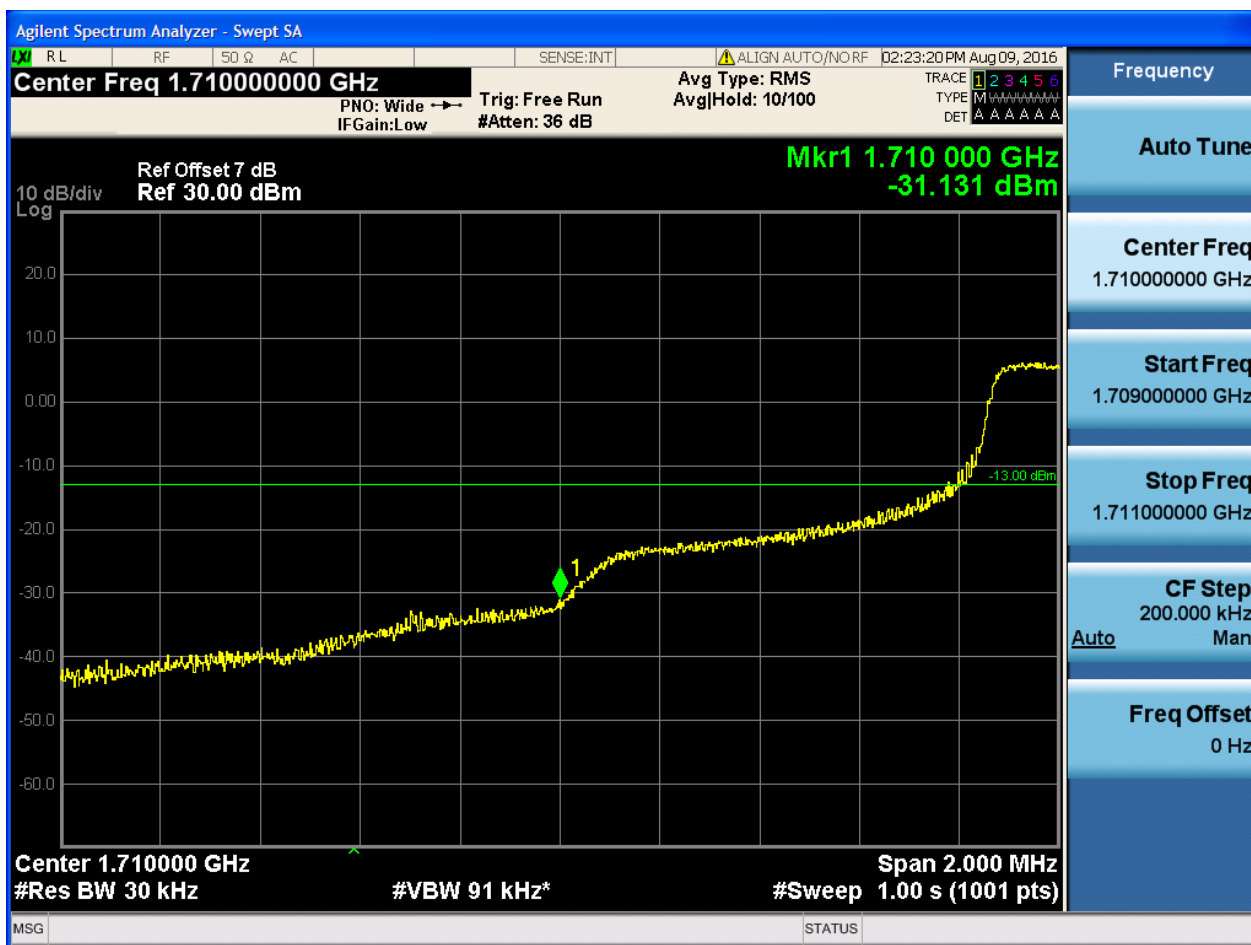


5.1.2.1.2.1.2 Test RB = RB1#14



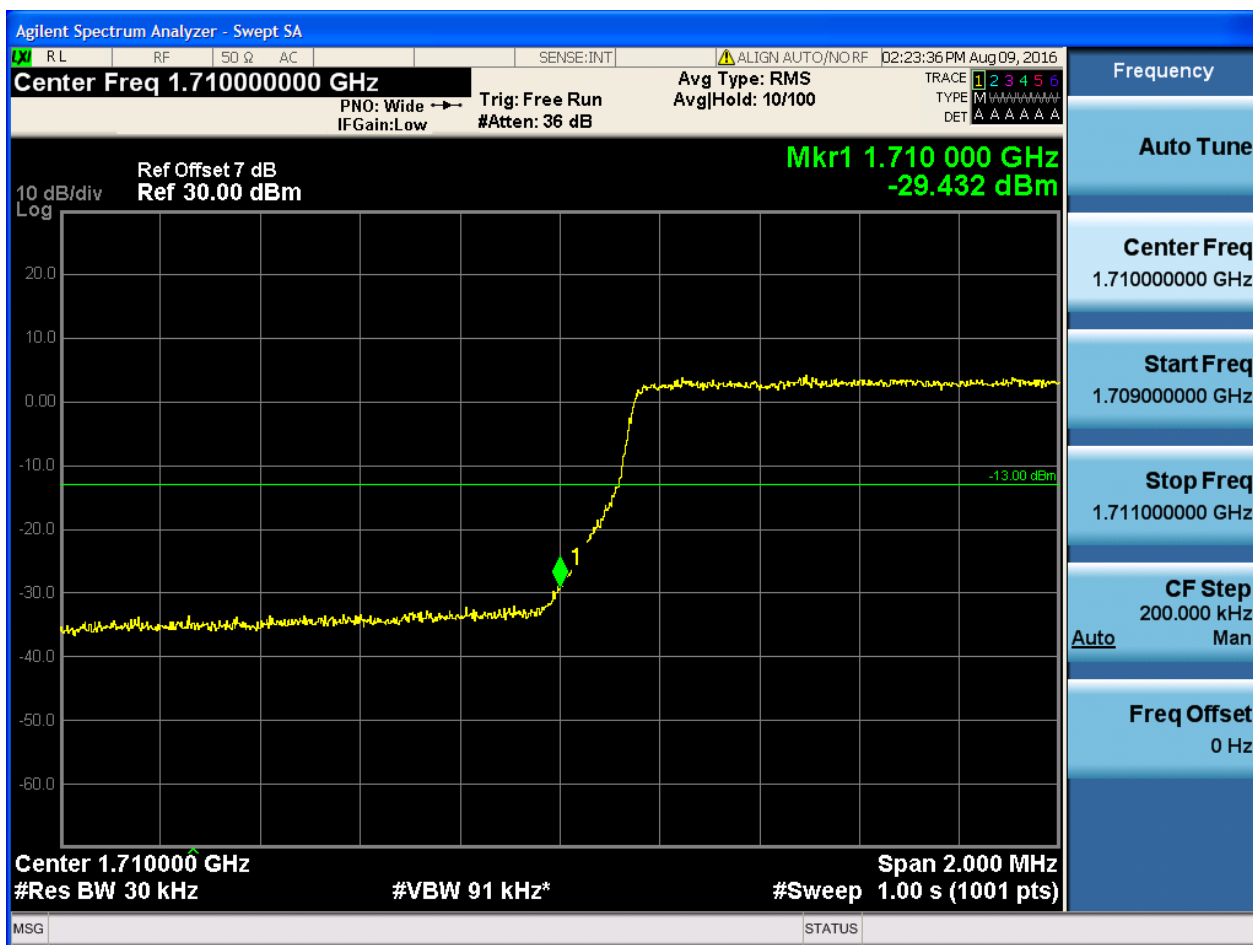


5.1.2.1.2.1.3 Test RB = RB8#4



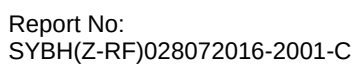


5.1.2.1.2.1.4 Test RB = RB15#0



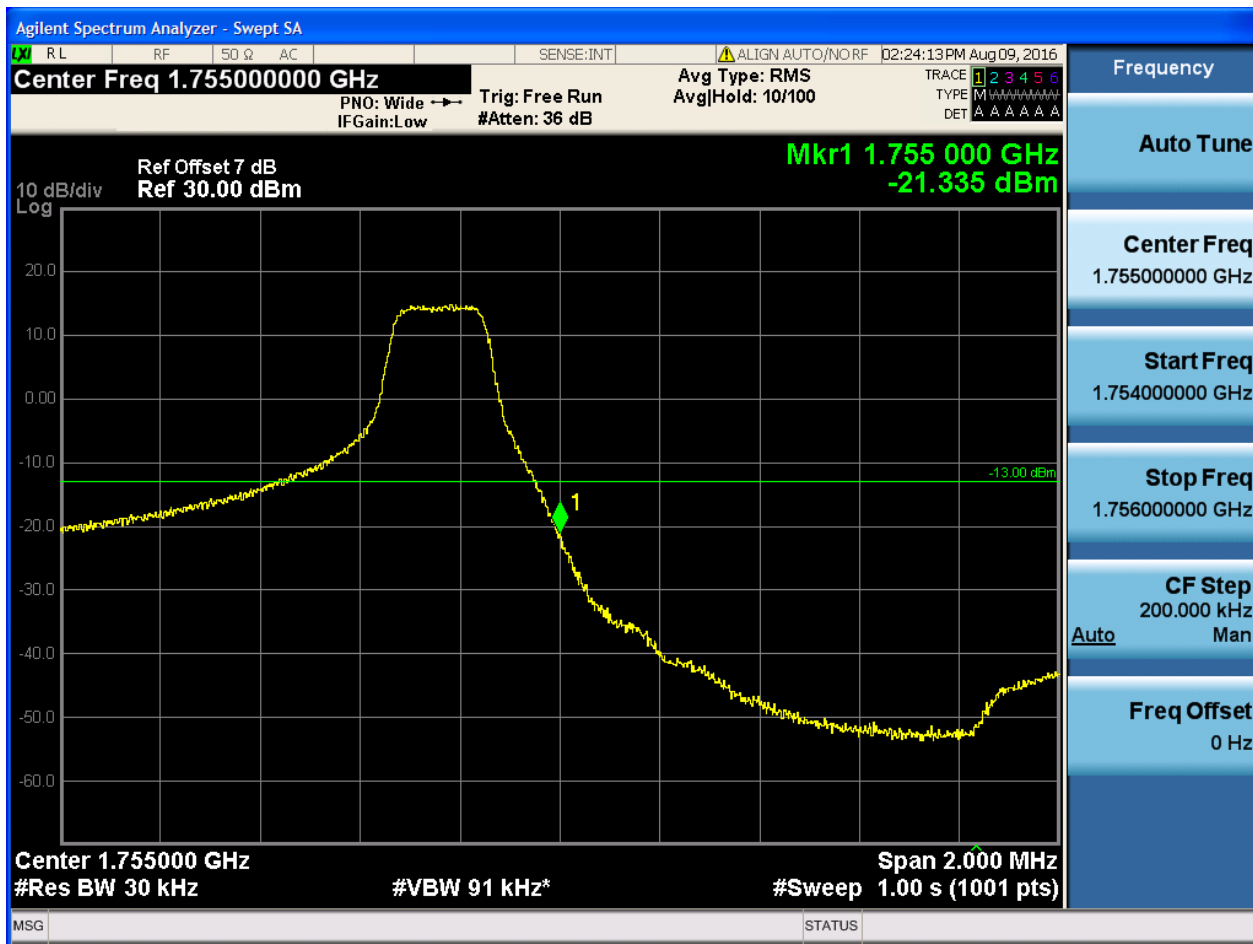


5.1.2.1.2.2.1 Test RB = RB1#0





5.1.2.1.2.2.2 Test RB = RB1#14





5.1.2.1.2.2.3 Test RB = RB8#4





5.1.2.1.2.2.4 Test RB = RB15#0

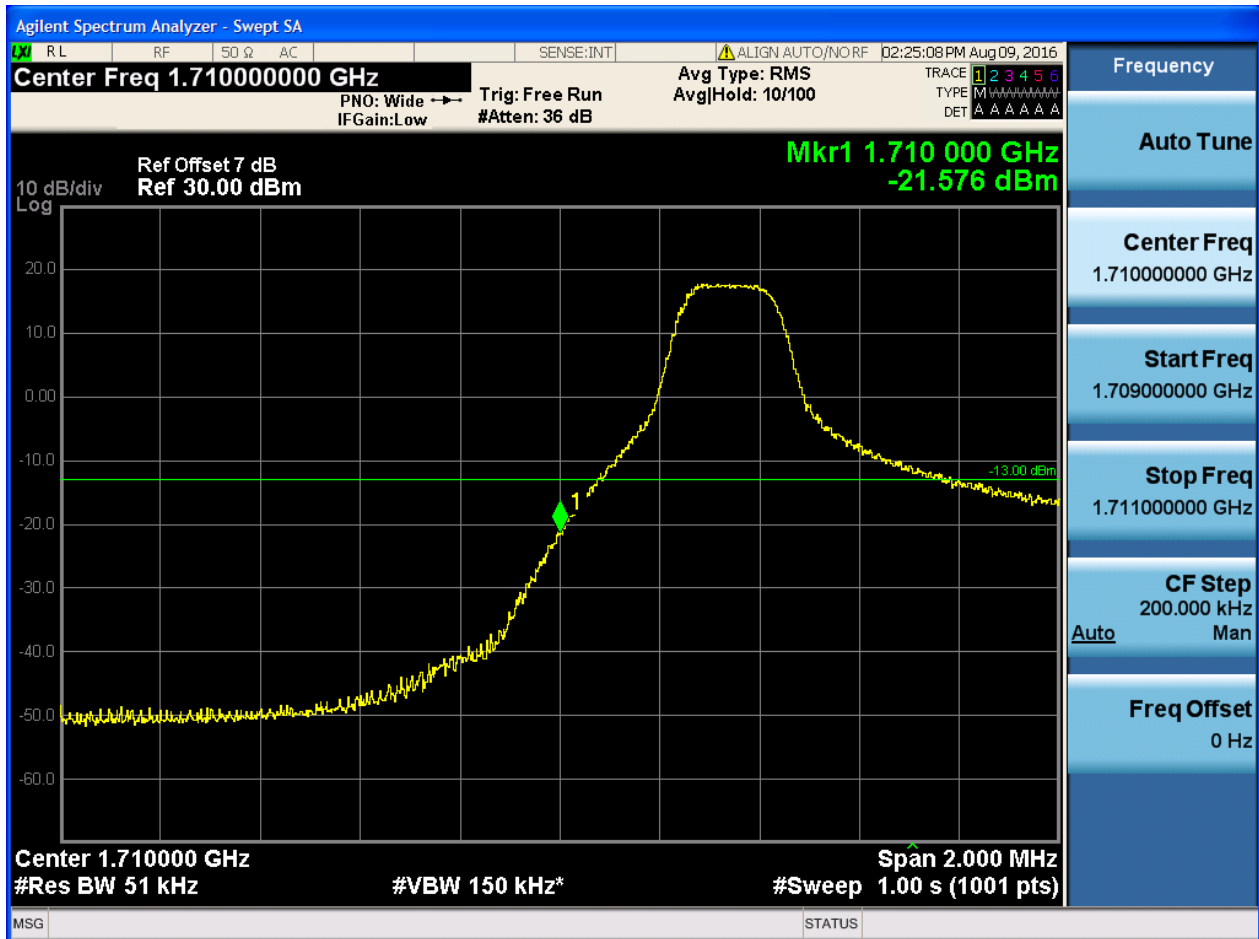




5.1.2.1.3 Test Bandwidth = 5

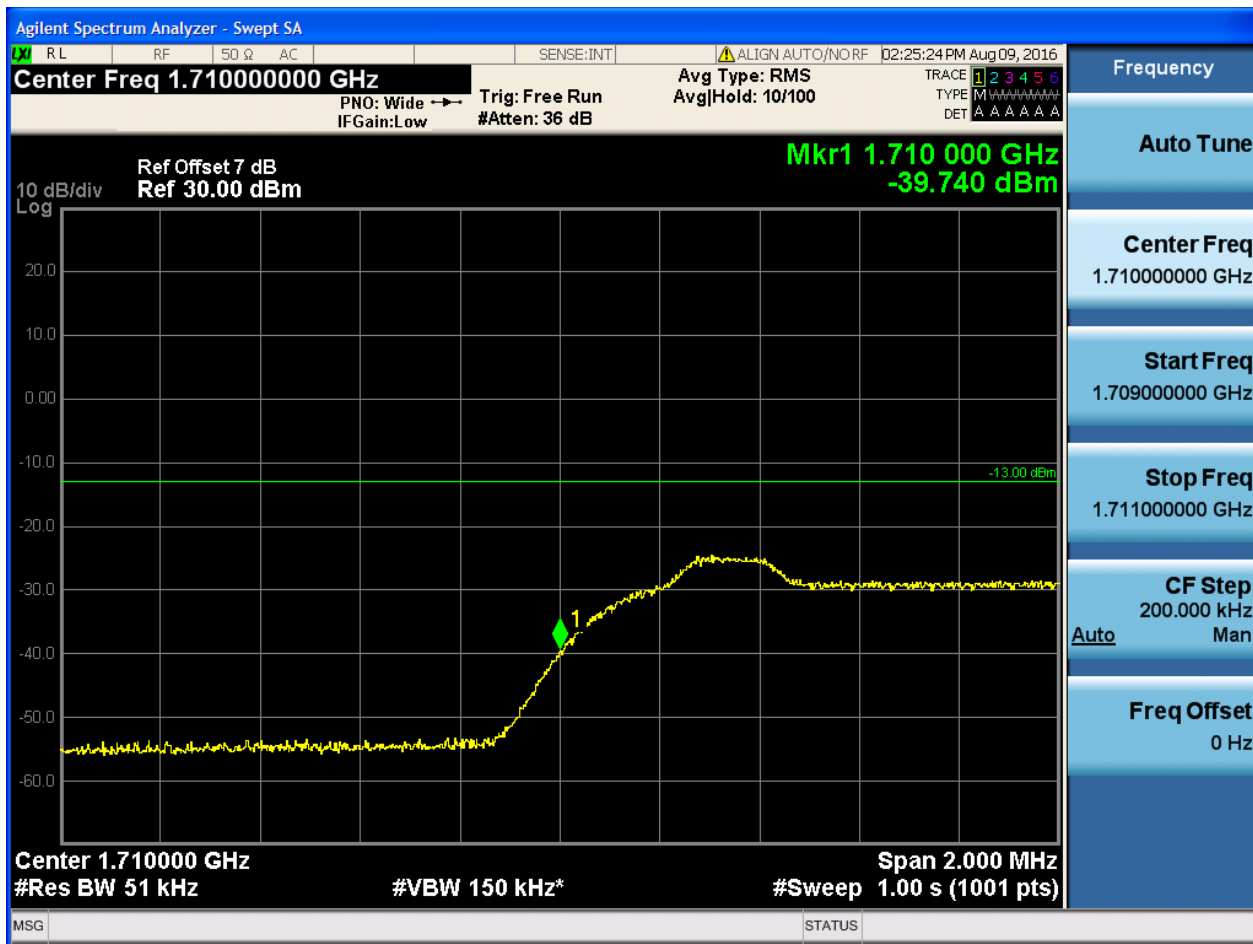
5.1.2.1.3.1 Test Channel = LCH

5.1.2.1.3.1.1 Test RB = RB1#0





5.1.2.1.3.1.2 Test RB = RB1#24



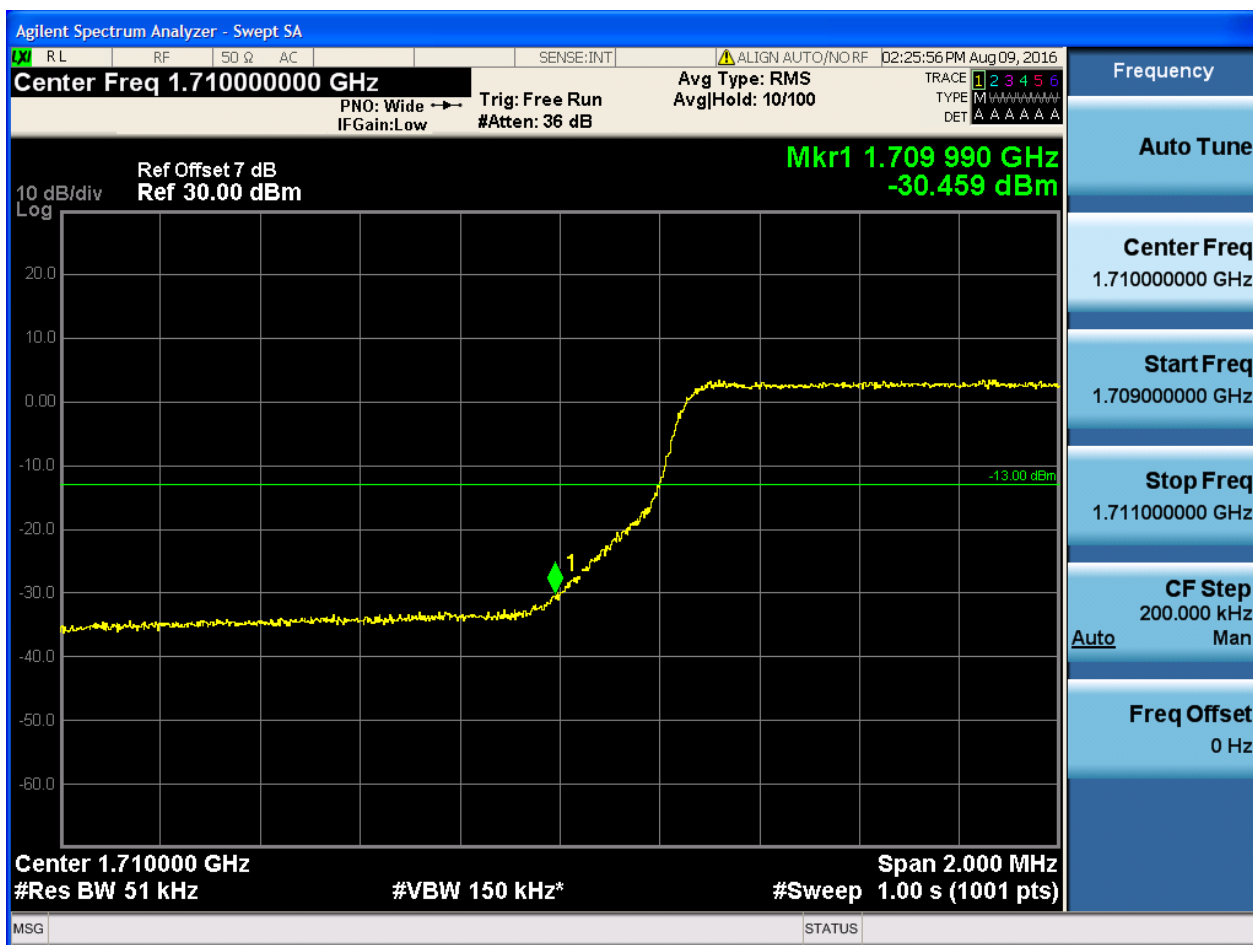


5.1.2.1.3.1.3 Test RB = RB12#6





5.1.2.1.3.1.4 Test RB = RB25#0





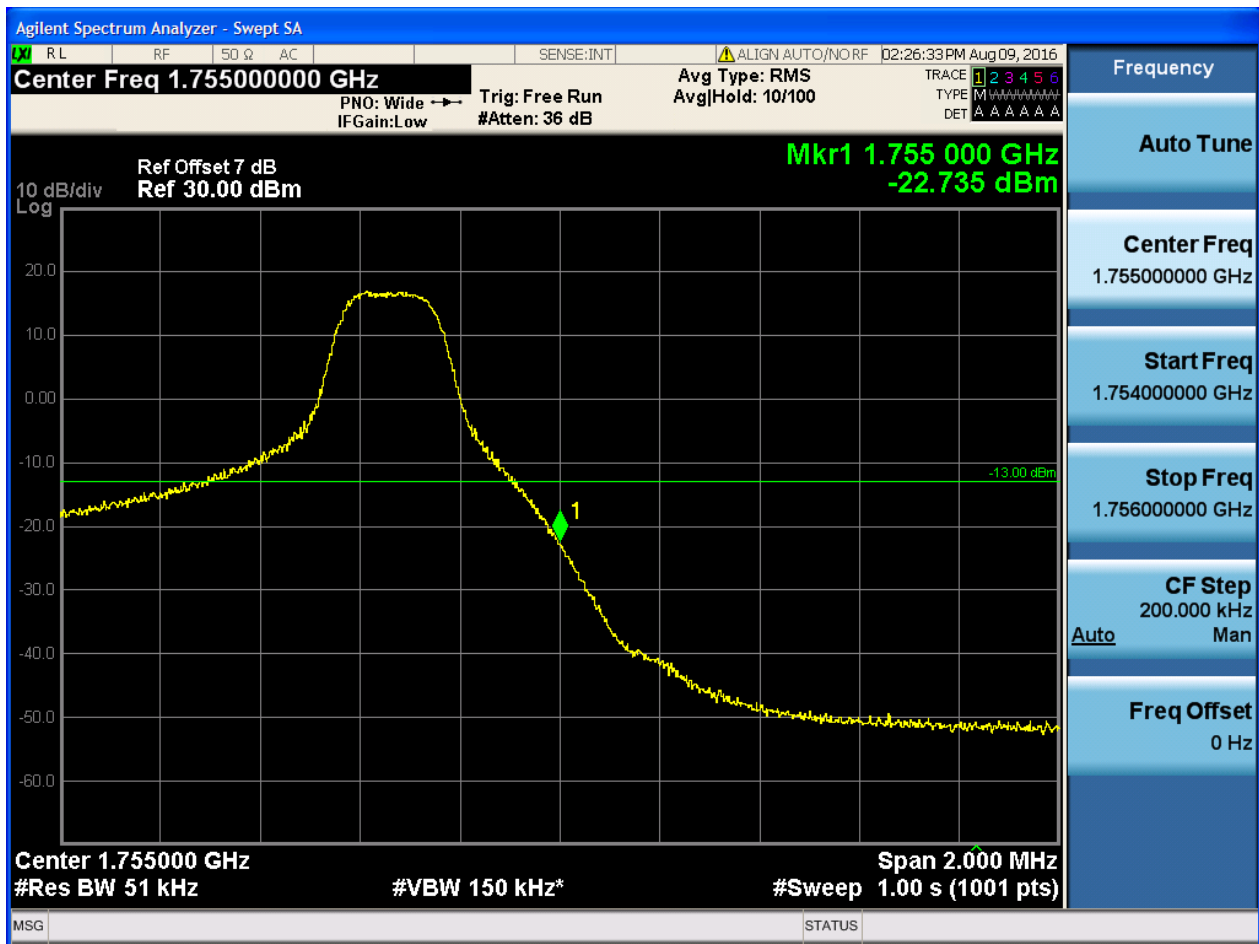
5.1.2.1.3.2 Test Channel = HCH

5.1.2.1.3.2.1 Test RB = RB1#0





5.1.2.1.3.2.2 Test RB = RB1#24





5.1.2.1.3.2.3 Test RB = RB12#6





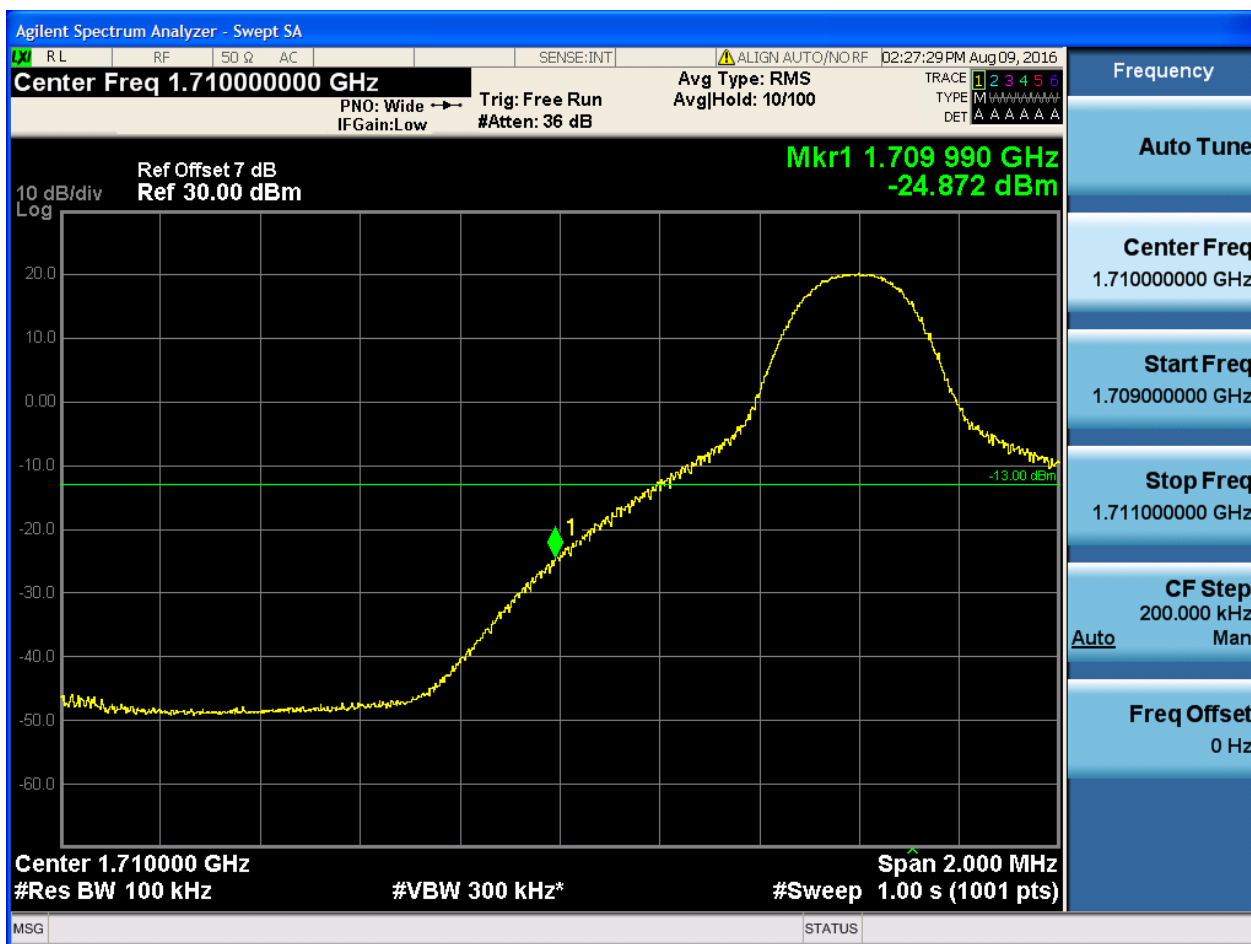
5.1.2.1.3.2.4 Test RB = RB25#0



5.1.2.1.4 Test Bandwidth = 10

5.1.2.1.4.1 Test Channel = LCH

5.1.2.1.4.1.1 Test RB = RB1#0



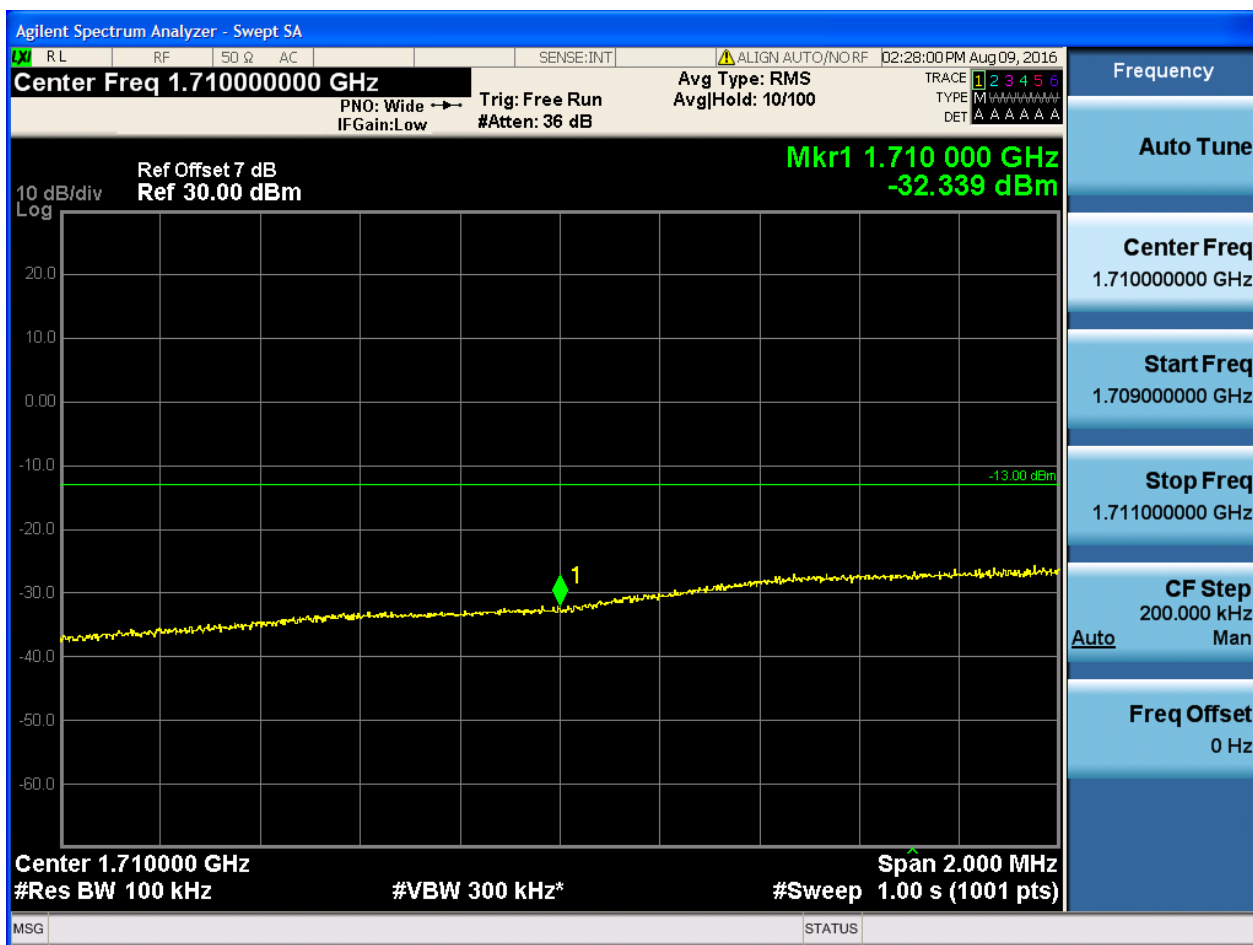


5.1.2.1.4.1.2 Test RB = RB1#49





5.1.2.1.4.1.3 Test RB = RB25#13





5.1.2.1.4.1.4 Test RB = RB50#0





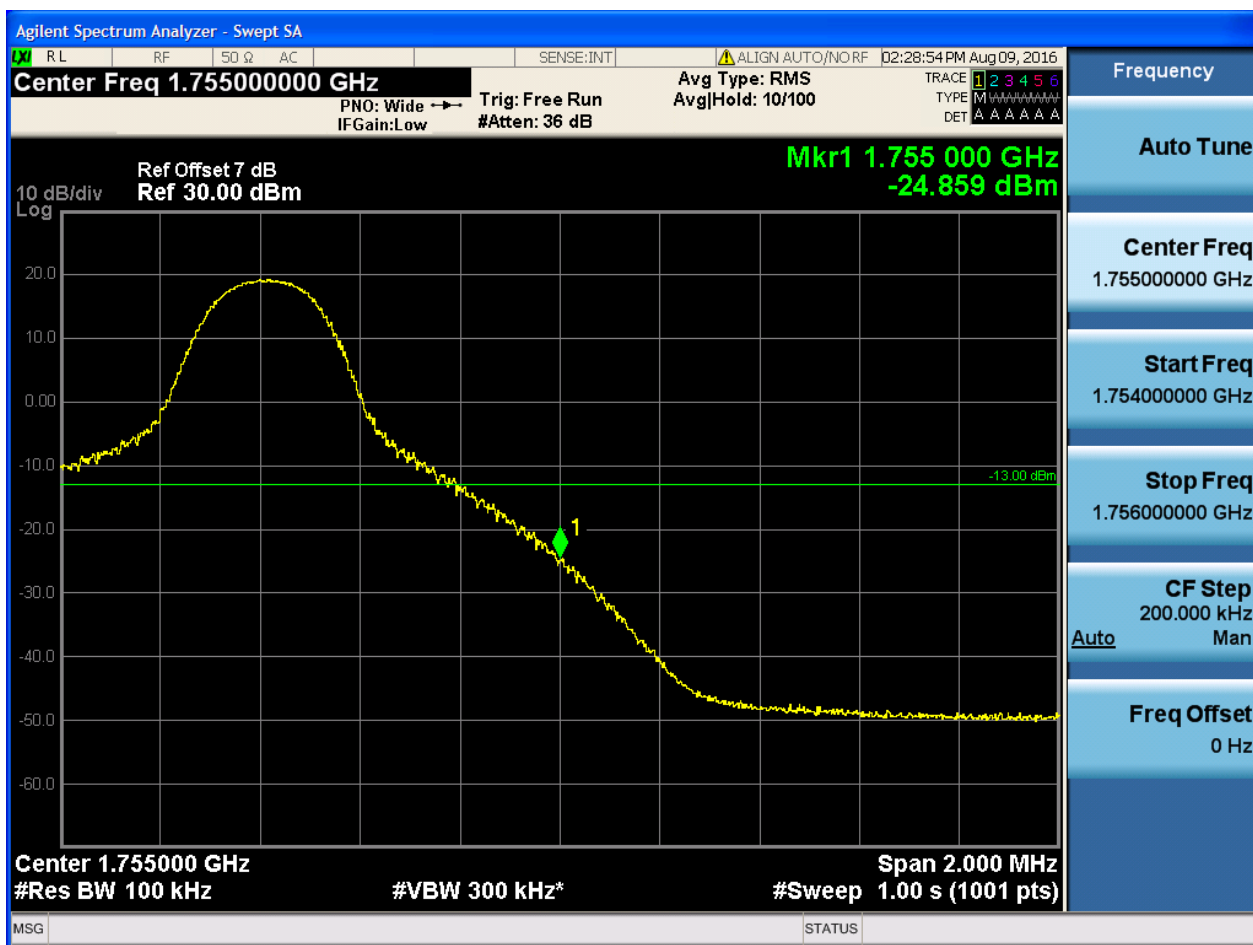
5.1.2.1.4.2 Test Channel = HCH

5.1.2.1.4.2.1 Test RB = RB1#0





5.1.2.1.4.2.2 Test RB = RB1#49





5.1.2.1.4.2.3 Test RB = RB25#13





5.1.2.1.4.2.4 Test RB = RB50#0

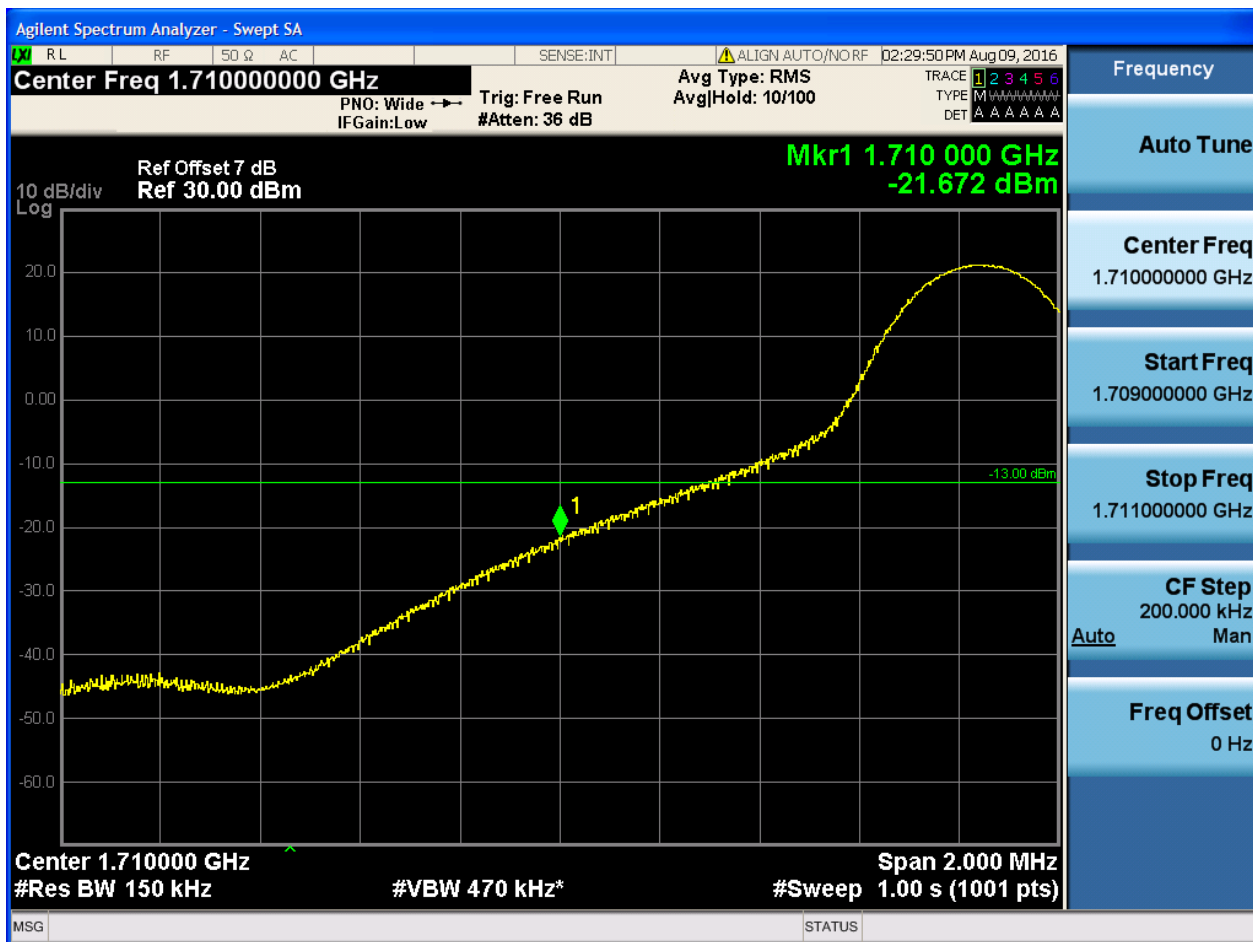




5.1.2.1.5 Test Bandwidth = 15

5.1.2.1.5.1 Test Channel = LCH

5.1.2.1.5.1.1 Test RB = RB1#0





5.1.2.1.5.1.2 Test RB = RB1#74





5.1.2.1.5.1.3 Test RB = RB38#19





5.1.2.1.5.1.4 Test RB = RB75#0



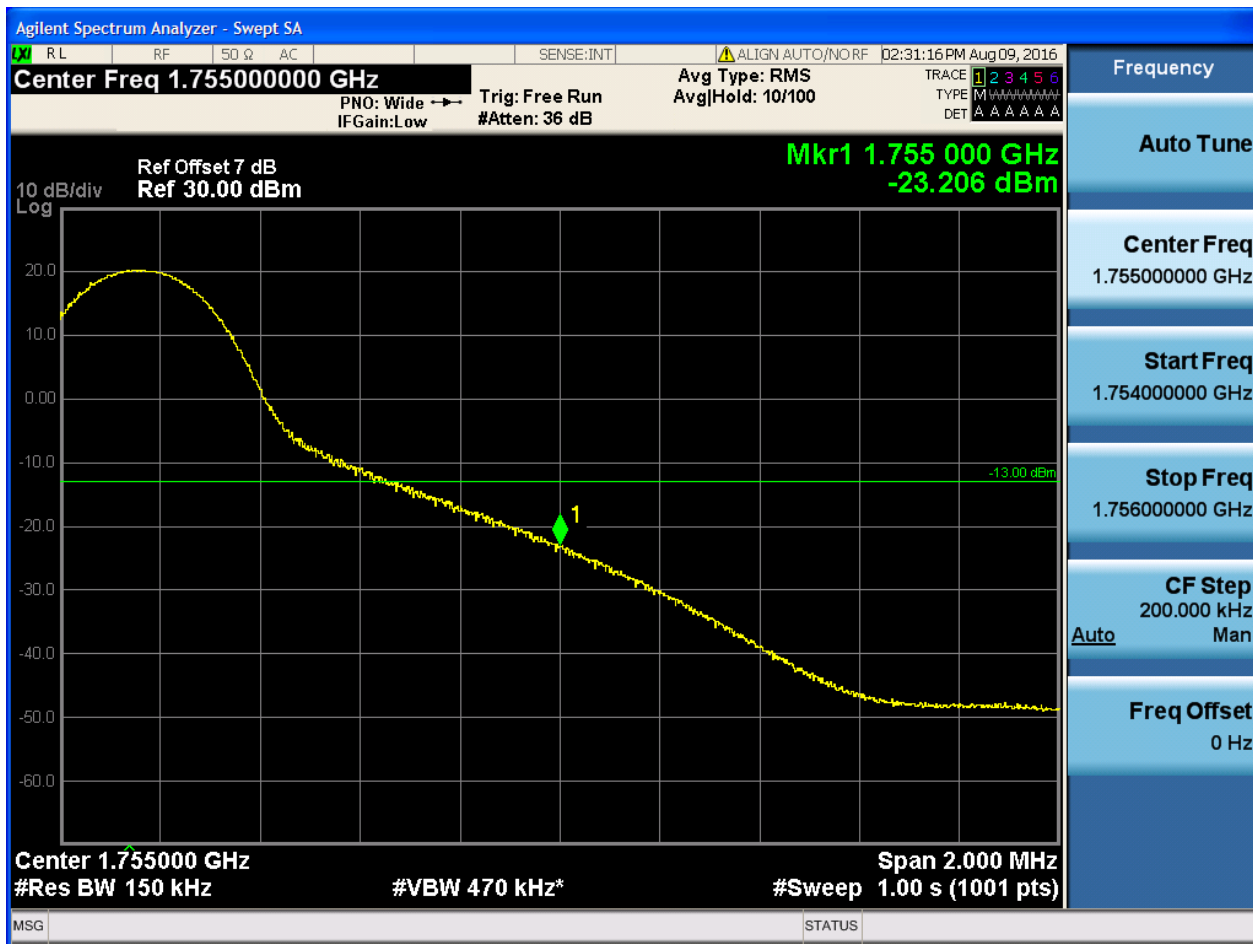
5.1.2.1.5.2 Test Channel = HCH

5.1.2.1.5.2.1 Test RB = RB1#0





5.1.2.1.5.2.2 Test RB = RB1#74





5.1.2.1.5.2.3 Test RB = RB38#19





5.1.2.1.5.2.4 Test RB = RB75#0

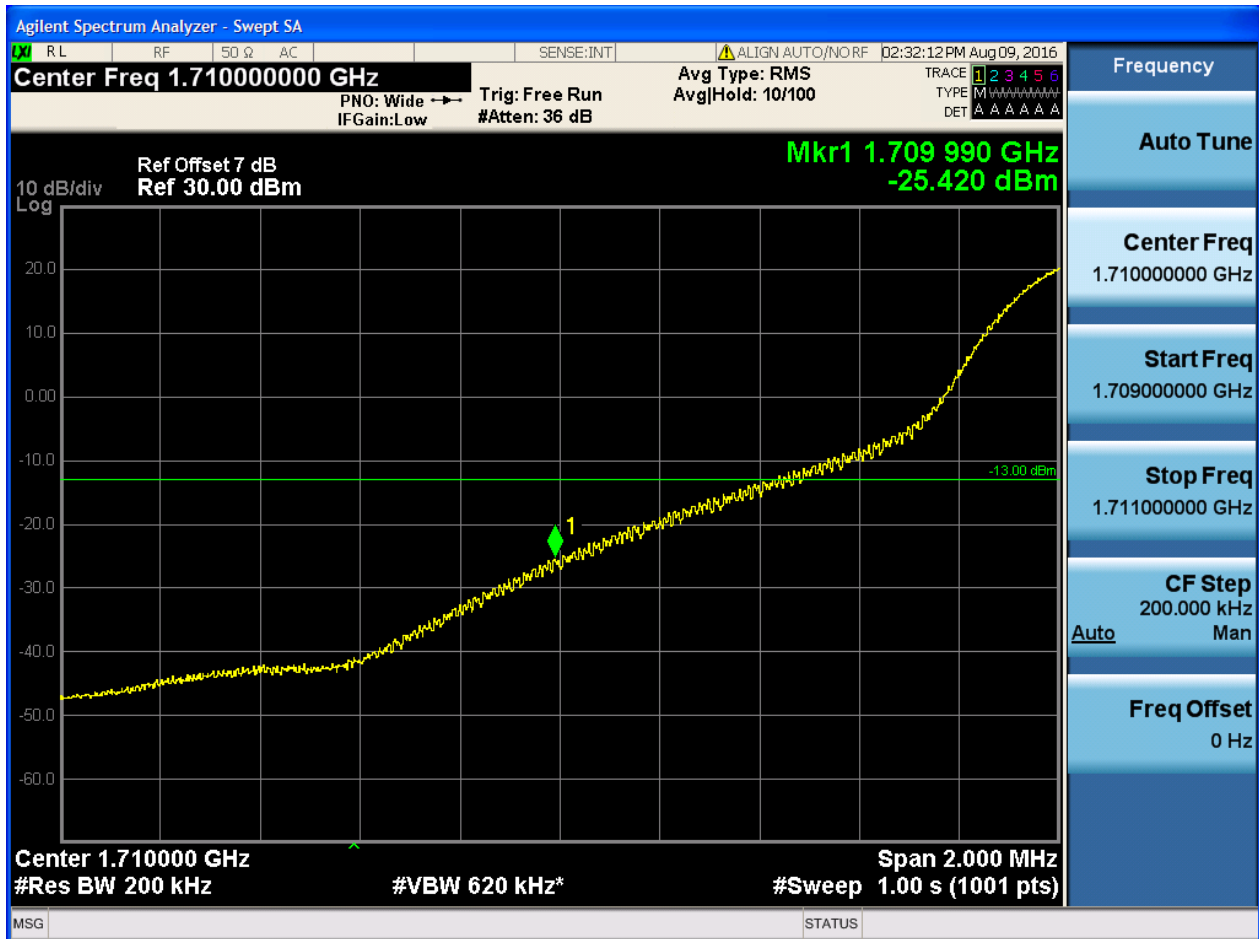




5.1.2.1.6 Test Bandwidth = 20

5.1.2.1.6.1 Test Channel = LCH

5.1.2.1.6.1.1 Test RB = RB1#0





5.1.2.1.6.1.2 Test RB = RB1#99





5.1.2.1.6.1.3 Test RB = RB50#25



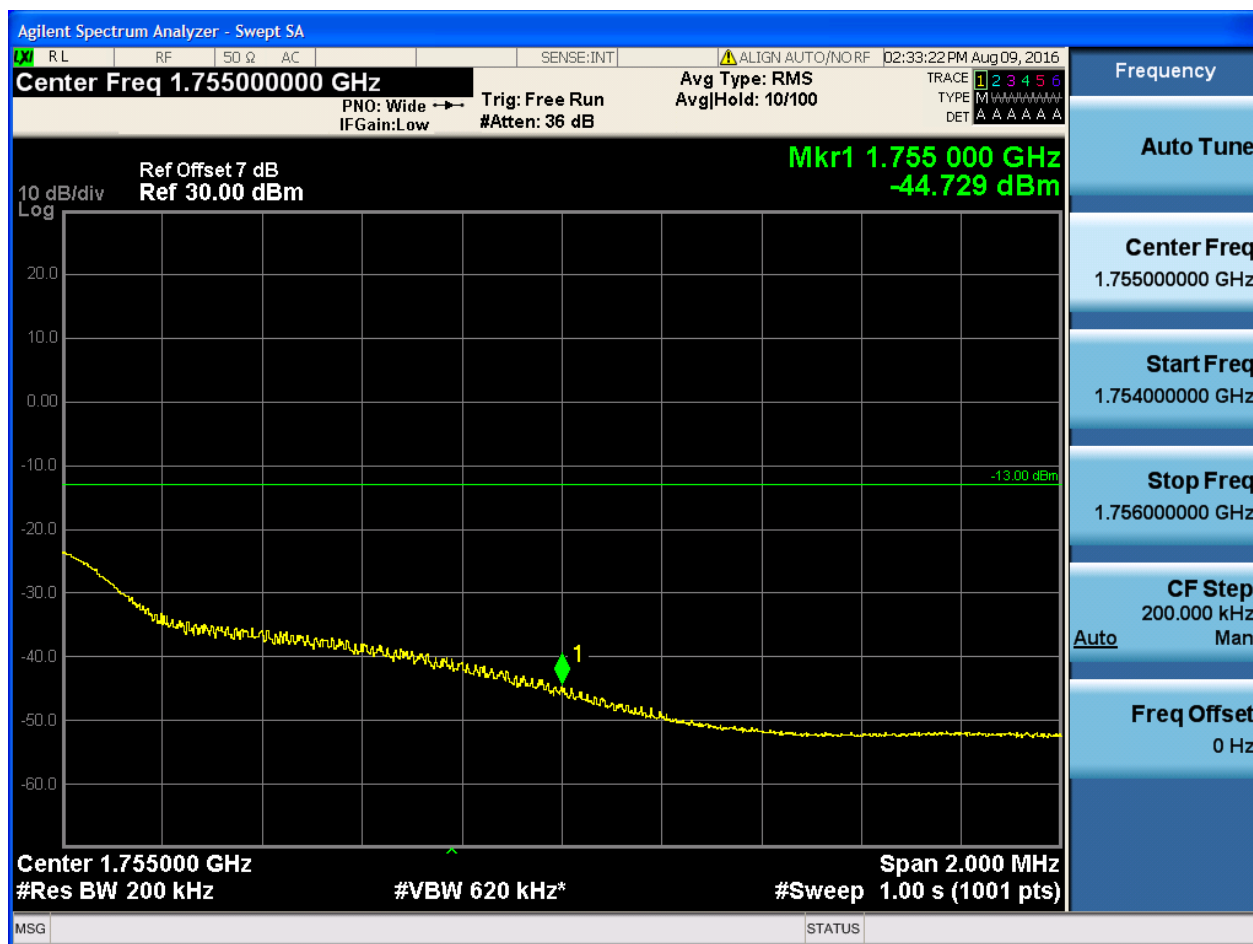


5.1.2.1.6.1.4 Test RB = RB100#0



5.1.2.1.6.2 Test Channel = HCH

5.1.2.1.6.2.1 Test RB = RB1#0





5.1.2.1.6.2.2 Test RB = RB1#99





5.1.2.1.6.2.3 Test RB = RB50#25





5.1.2.1.6.2.4 Test RB = RB100#0



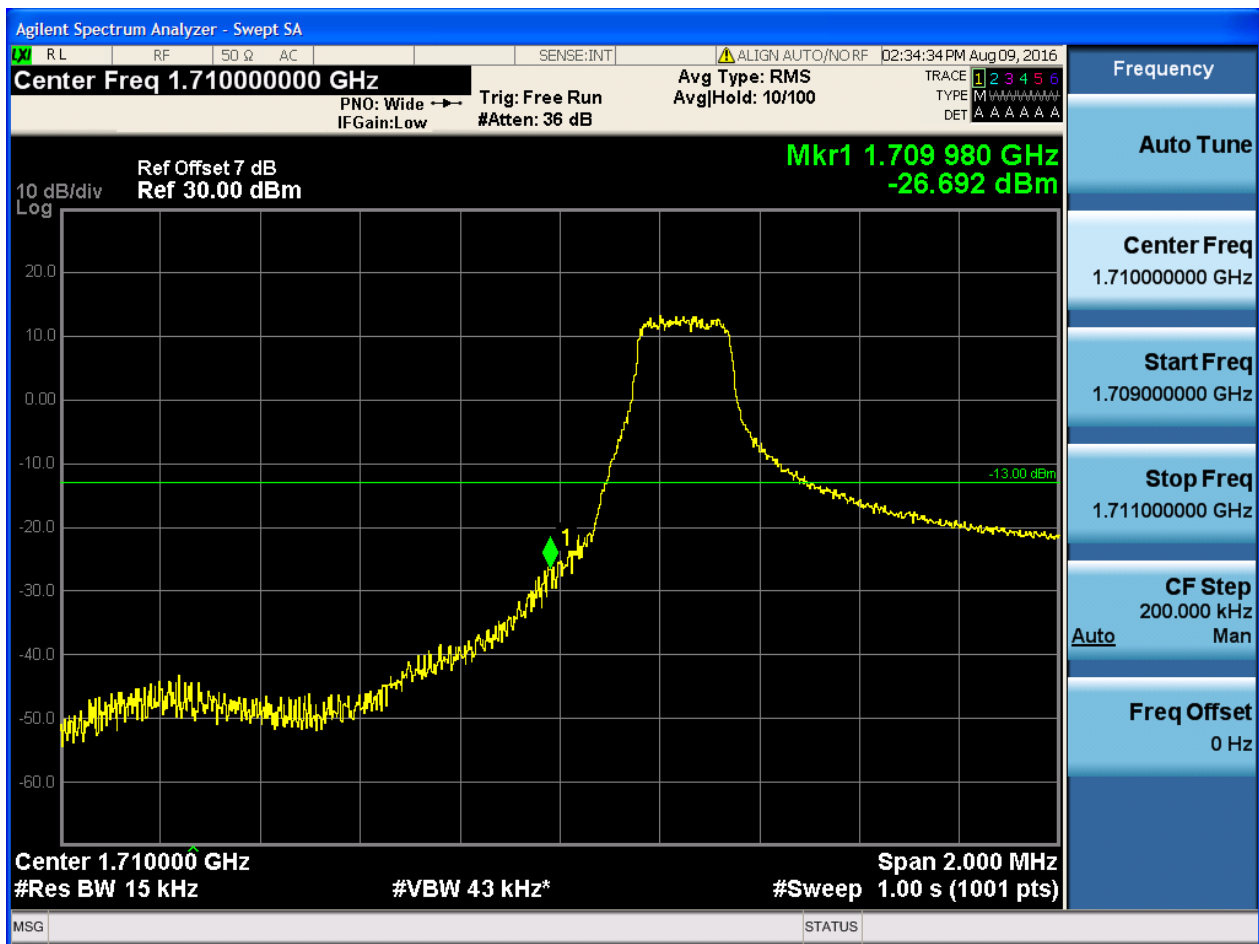


5.1.2.2 Test Mode = LTE/TM2

5.1.2.2.1 Test Bandwidth = 1.4

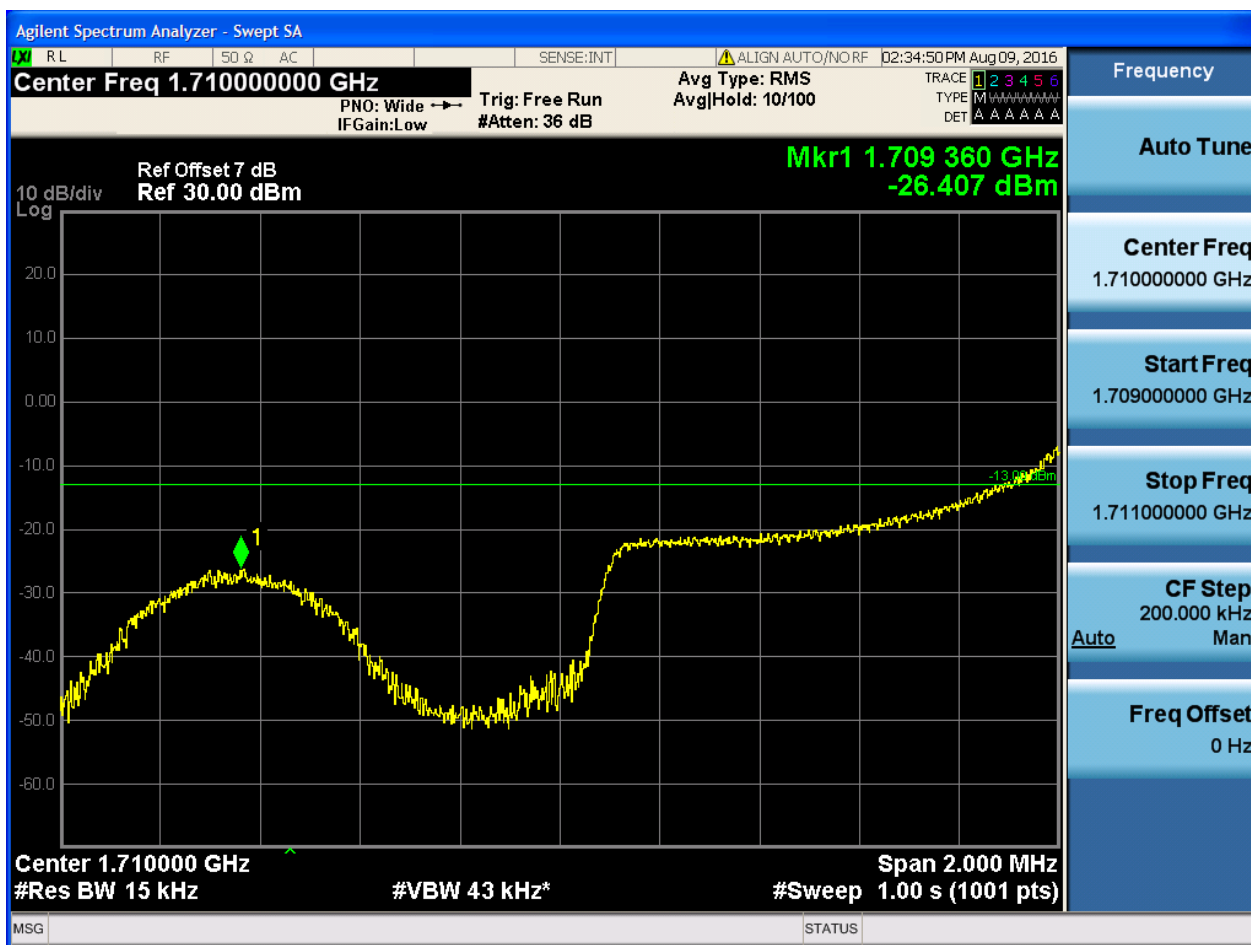
5.1.2.2.1.1 Test Channel = LCH

5.1.2.2.1.1.1 Test RB = RB1#0



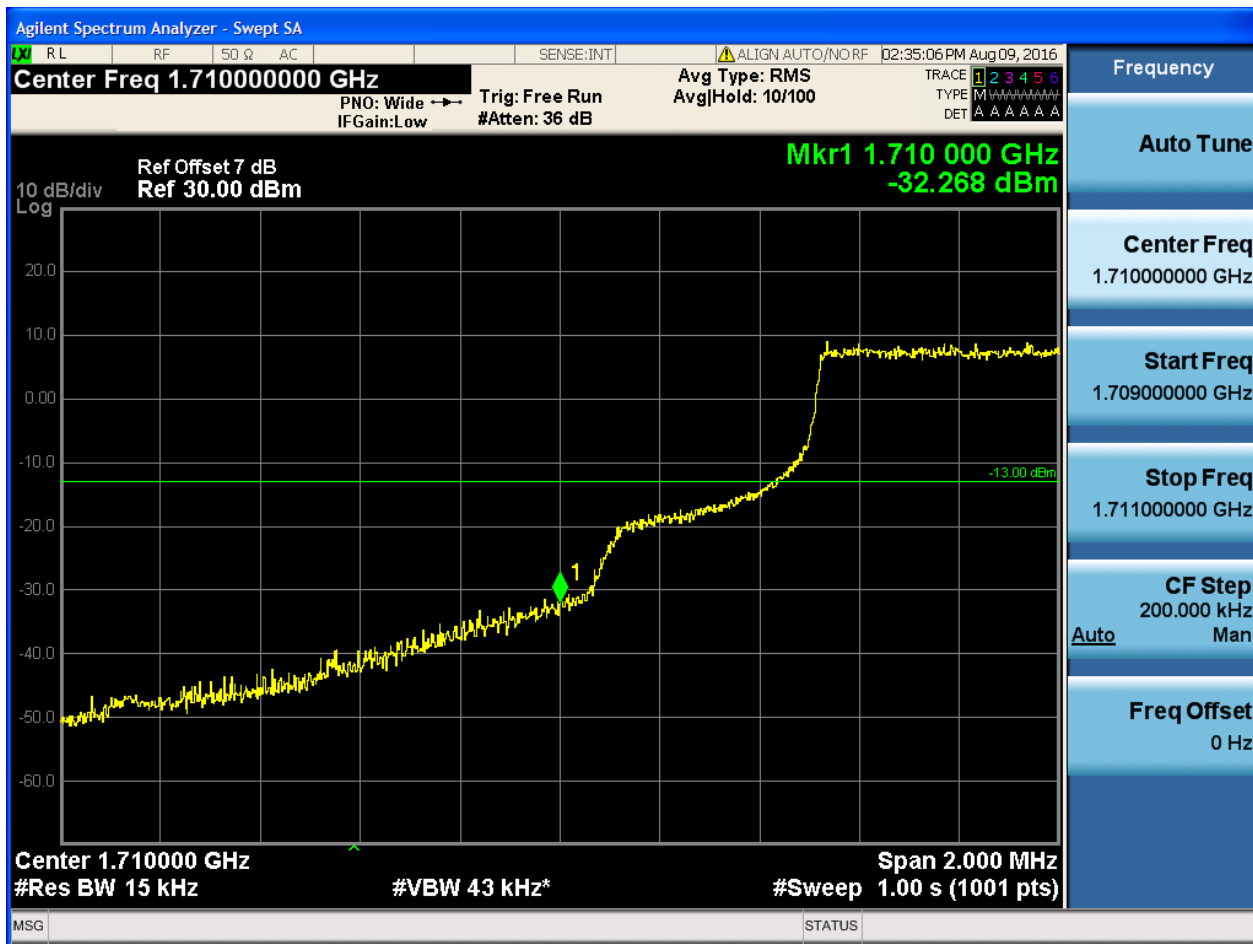


5.1.2.2.1.1.2 Test RB = RB1#5



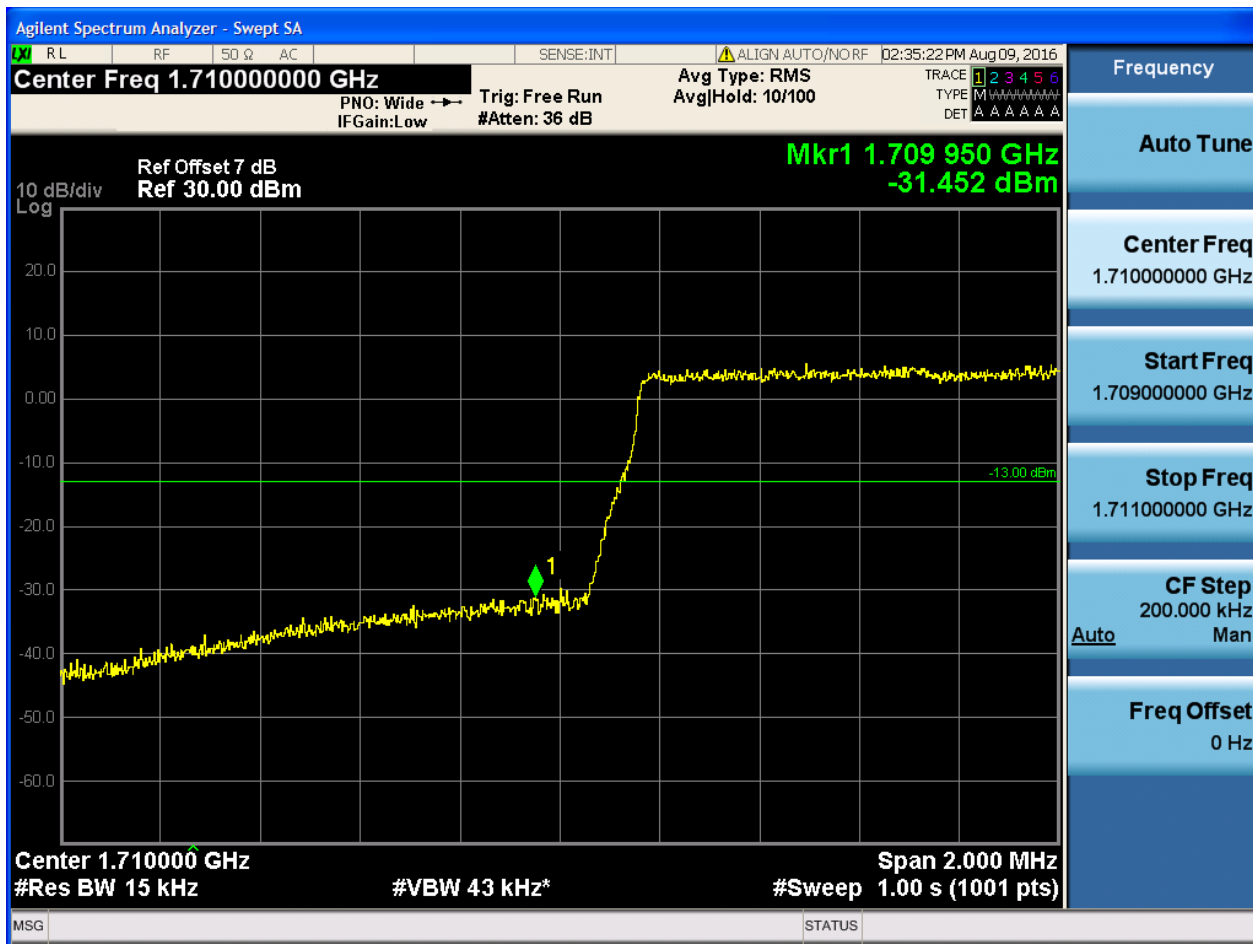


5.1.2.2.1.1.3 Test RB = RB3#2





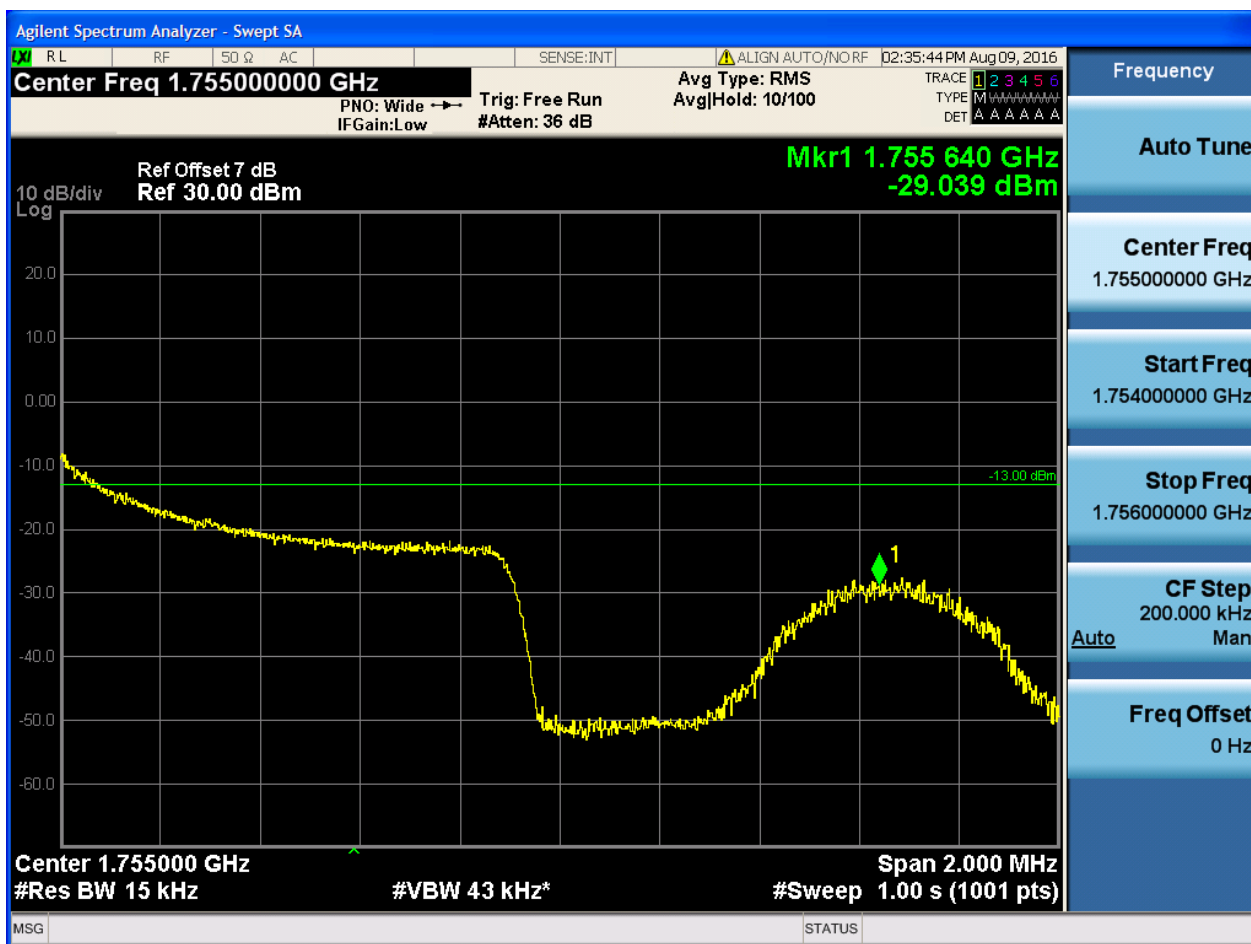
5.1.2.2.1.1.4 Test RB = RB6#0





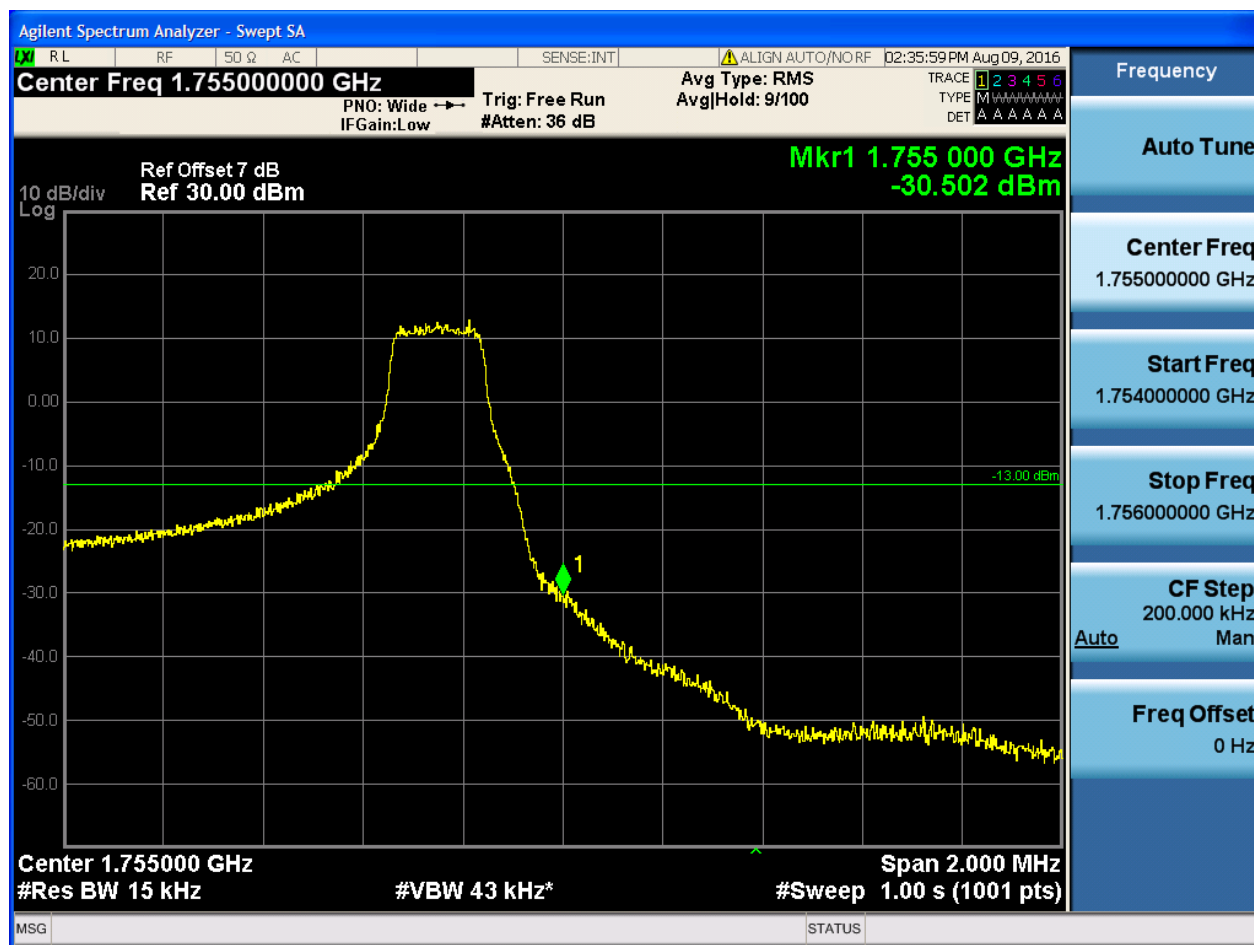
5.1.2.2.1.2 Test Channel = HCH

5.1.2.2.1.2.1 Test RB = RB1#0





5.1.2.2.1.2.2 Test RB = RB1#5





Agilent Spectrum Analyzer - Swept SA

Center Freq 1.75500000 GHz

PNO: Wide → Trig: Free Run

IFGain: Low #Atten: 36 dB

Avg Type: RMS

Avg|Hold: 10/100

TRACE 1 2 3 4 5 6

TYPE M

DET A A A A A A

Ref Offset 7 dB

Ref 30.00 dBm

Mkr1 1.755 040 GHz

-33.155 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

Center 1.755000 GHz

#Res BW 15 kHz

#VBW 43 kHz*

Span 2.000 MHz

#Sweep 1.00 s (1001 pts)

MSG

STATUS

Frequency

Auto Tune

Center Freq

1.75500000 GHz

Start Freq

1.75400000 GHz

Stop Freq

1.75600000 GHz

CF Step

200.000 kHz

Man

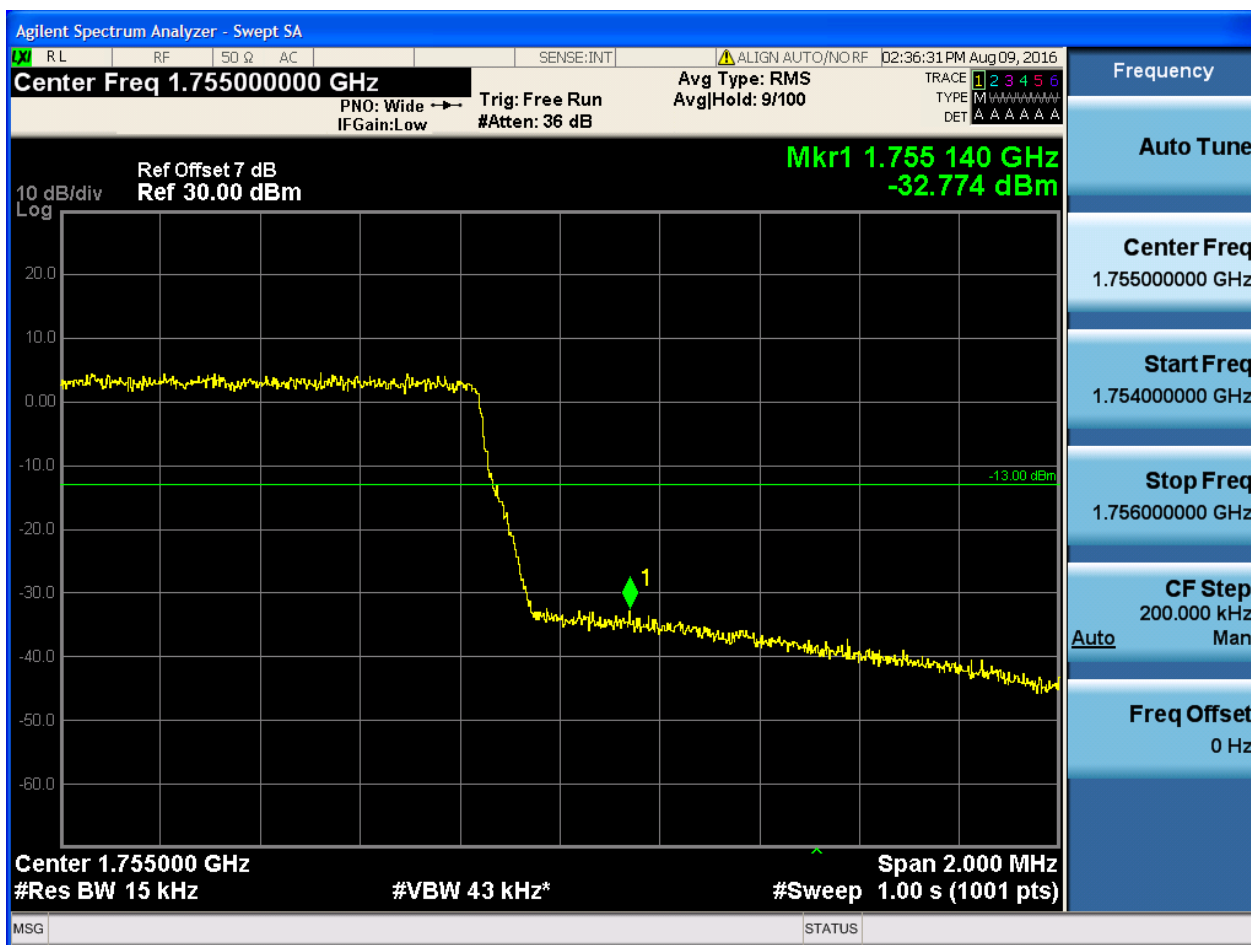
Auto

Freq Offset

0 Hz



5.1.2.2.1.2.4 Test RB = RB6#0

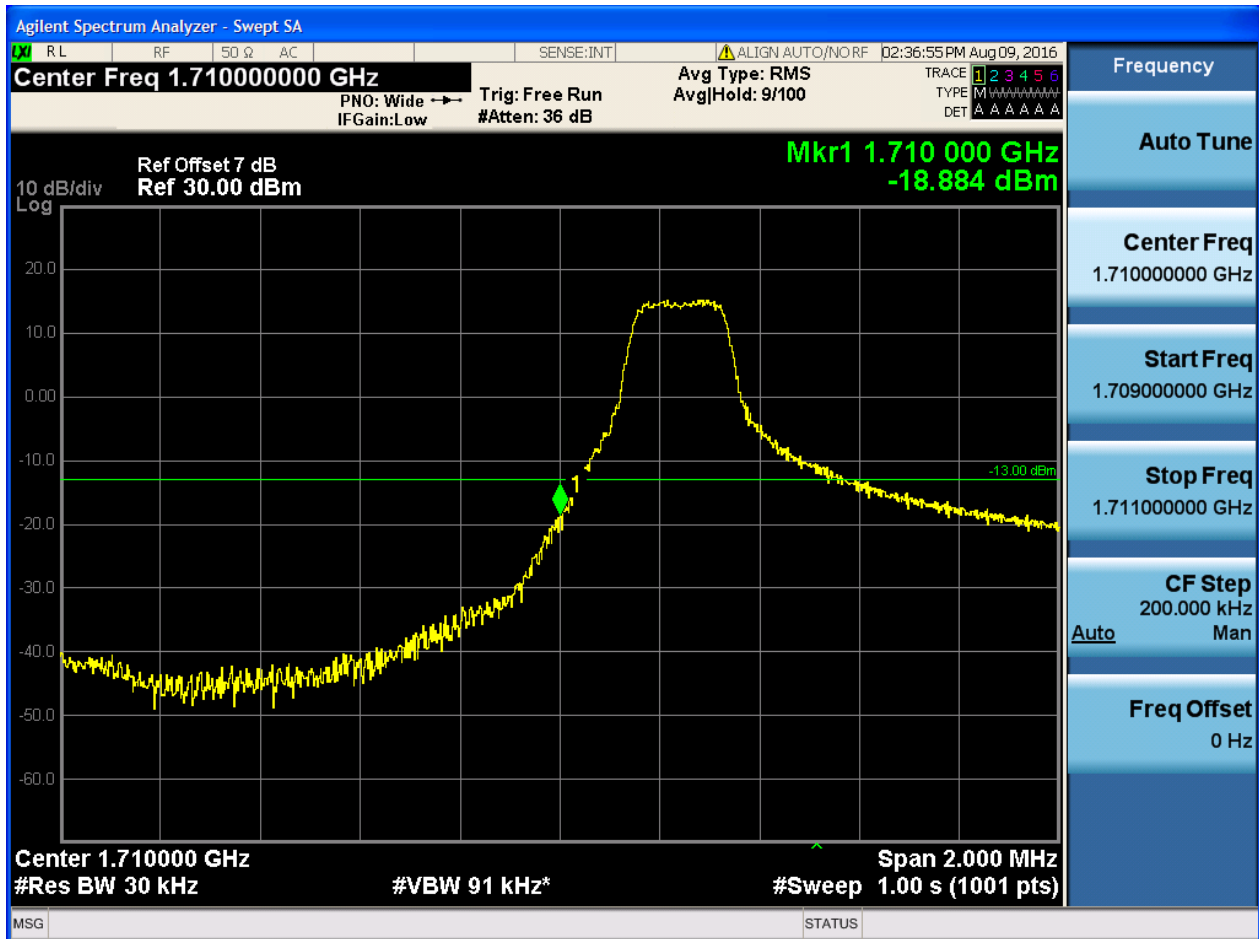




5.1.2.2.2 Test Bandwidth = 3

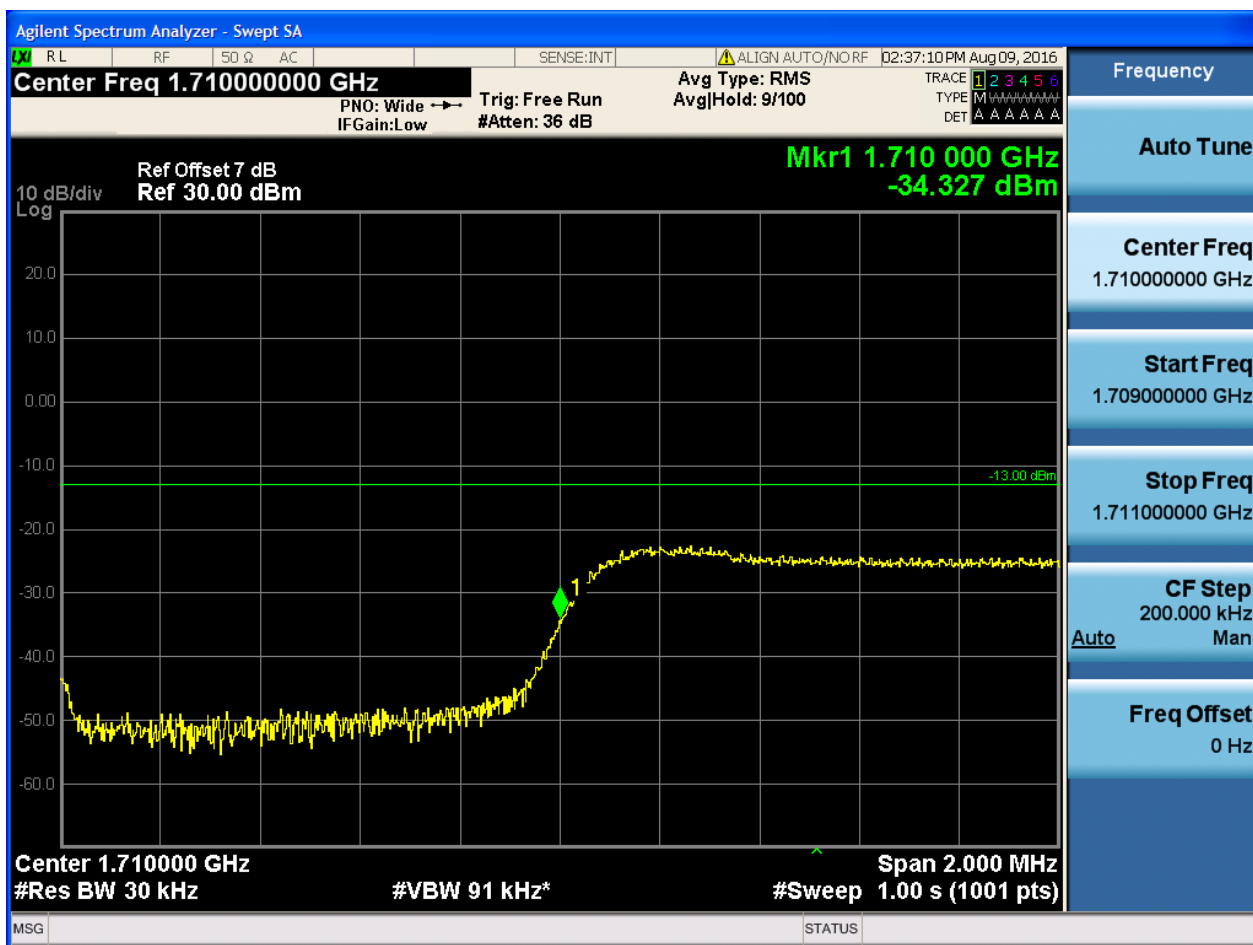
5.1.2.2.2.1 Test Channel = LCH

5.1.2.2.2.1.1 Test RB = RB1#0



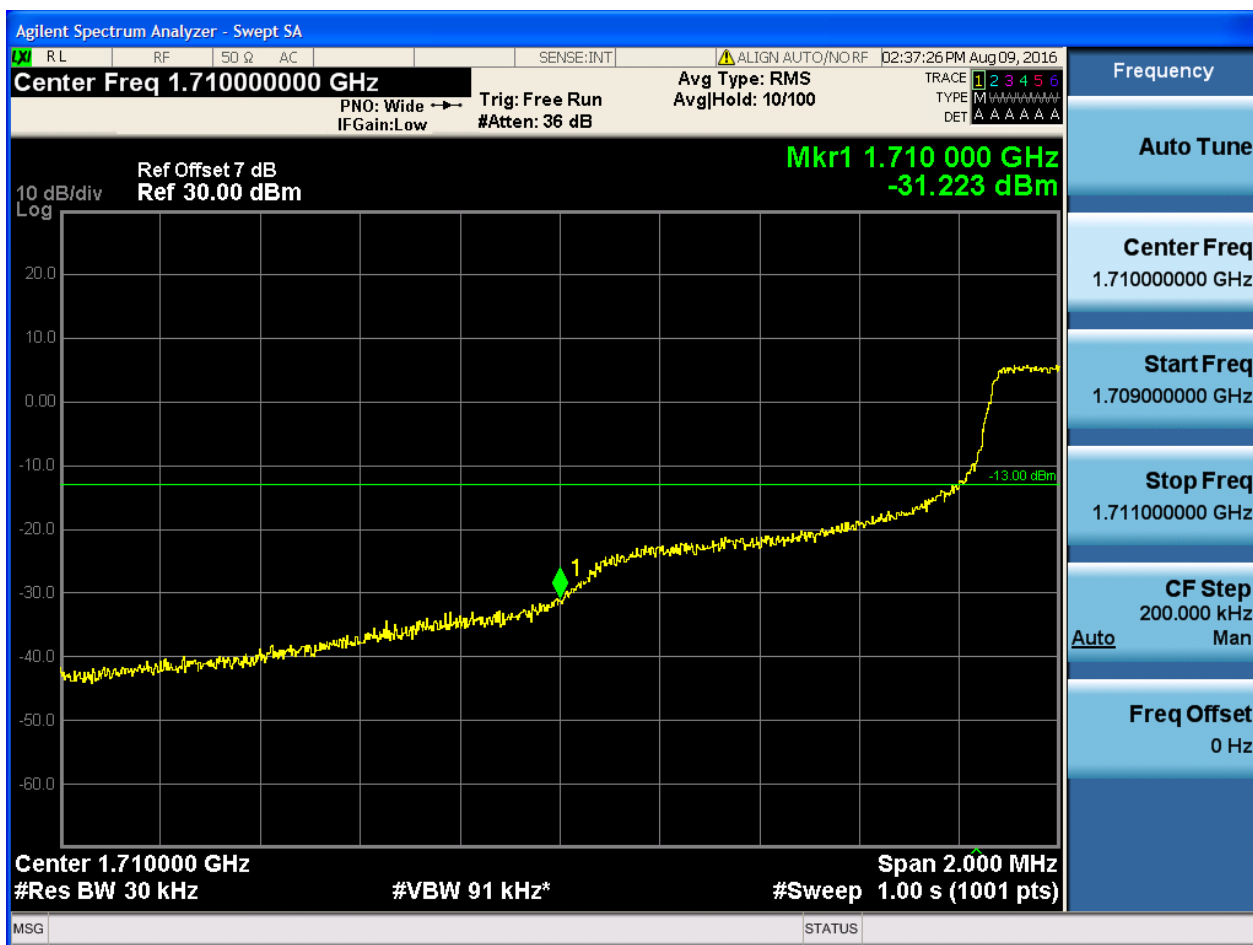


5.1.2.2.1.2 Test RB = RB1#14



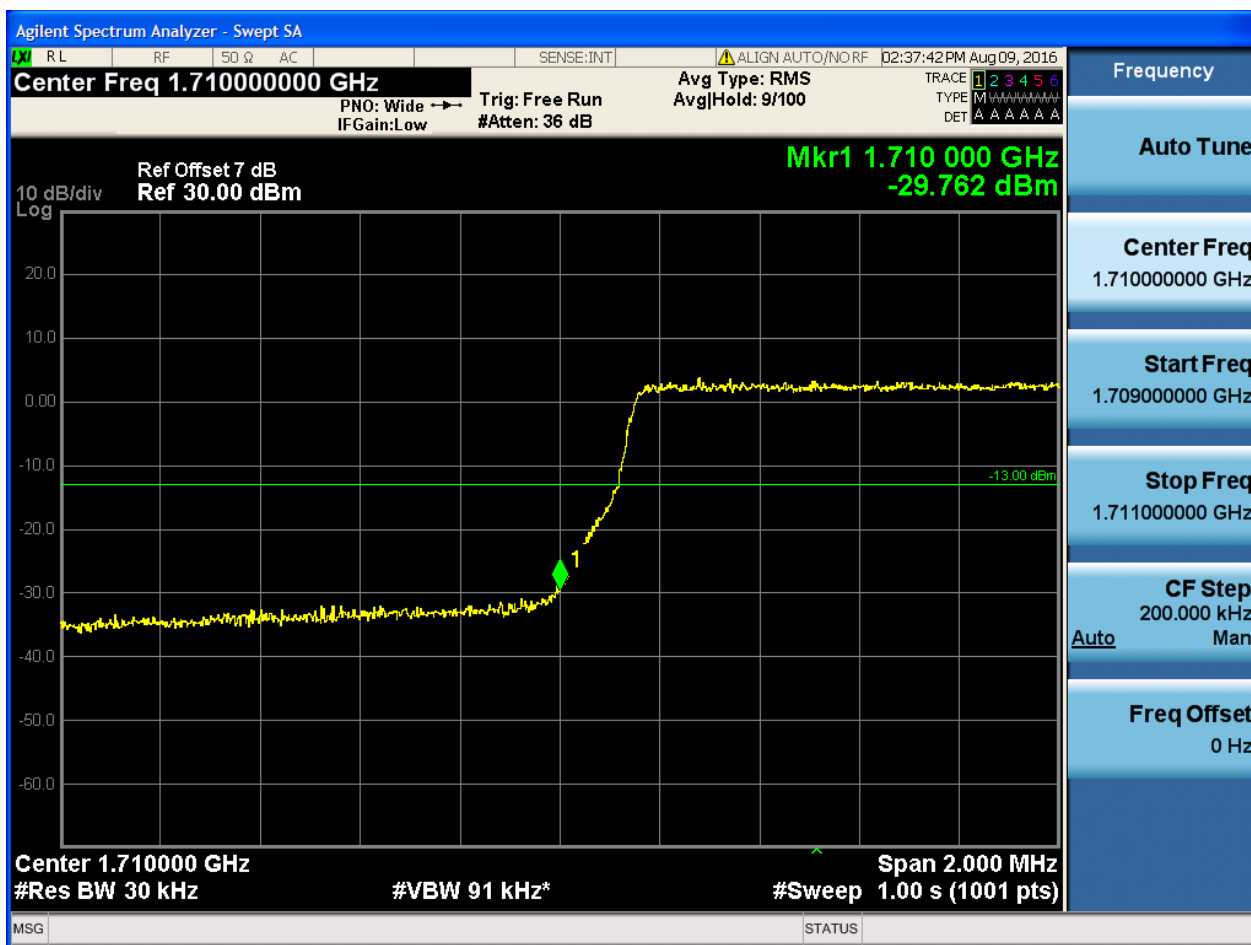


5.1.2.2.1.3 Test RB = RB8#4





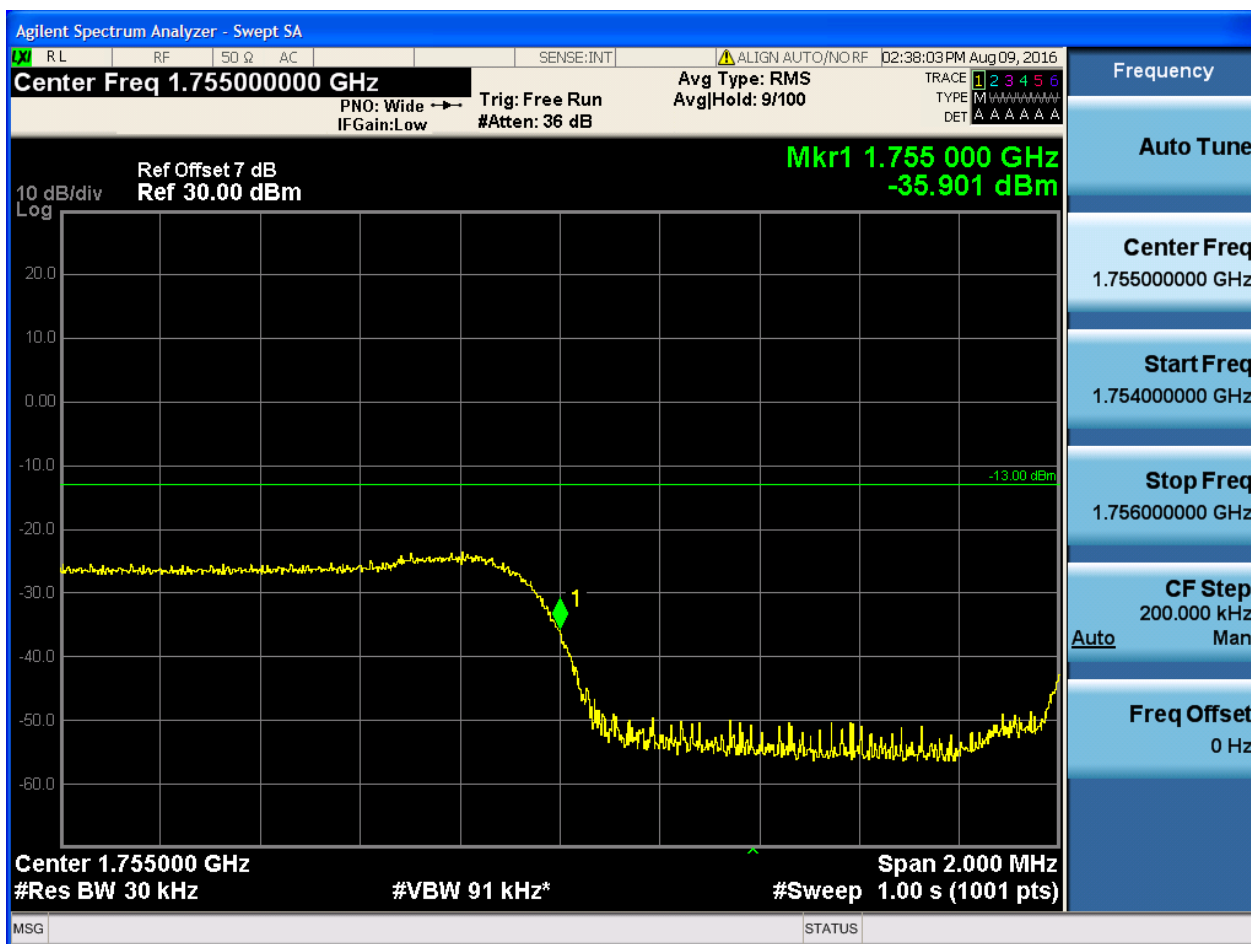
5.1.2.2.1.4 Test RB = RB15#0





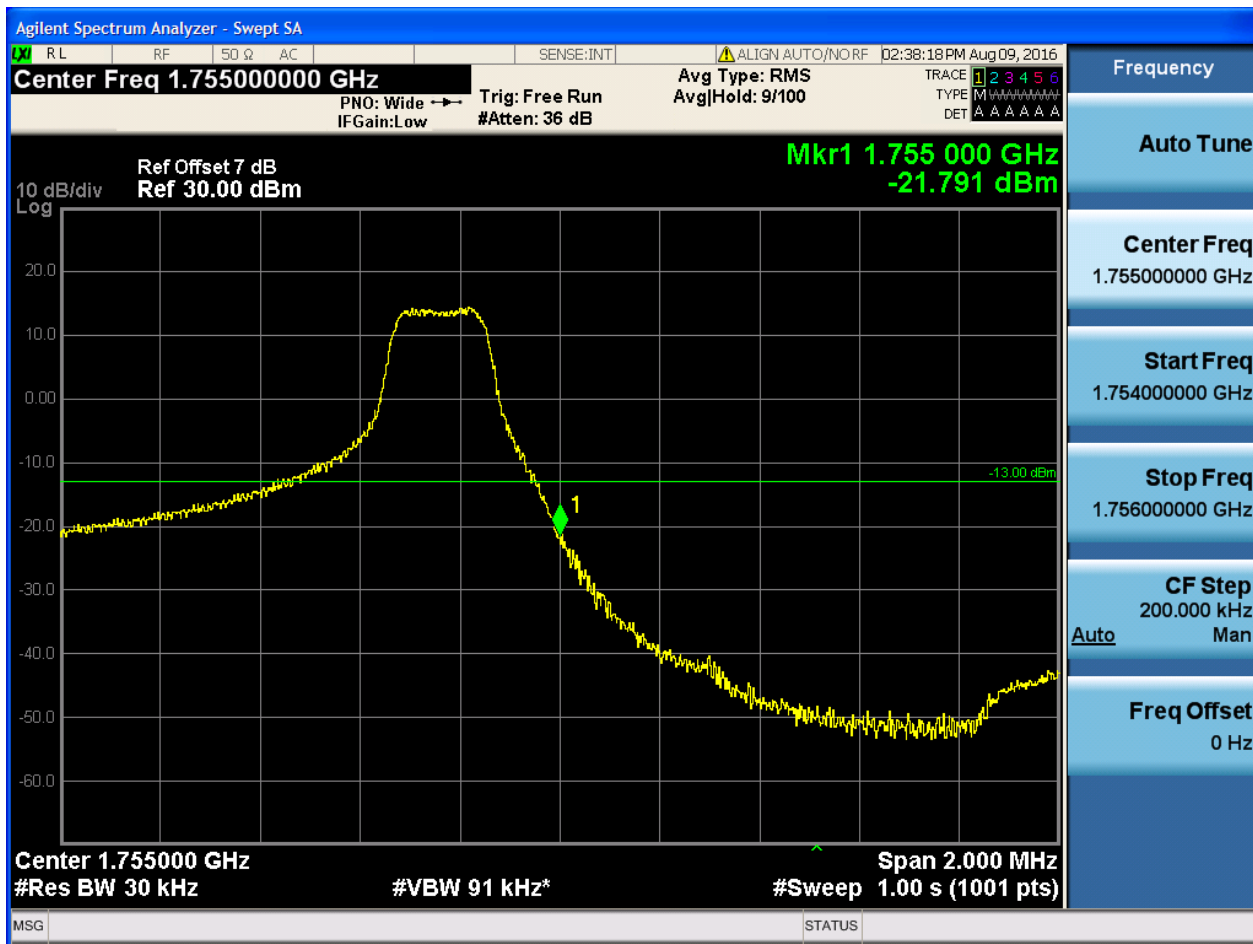
5.1.2.2.2 Test Channel = HCH

5.1.2.2.2.1 Test RB = RB1#0





5.1.2.2.2.2 Test RB = RB1#14





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO/NORF 02:38:34 PM Aug 09, 2016

Center Freq 1.755000000 GHz Avg Type: RMS
PNO: Wide Trig: Free Run Avg|Hold: 10/100
IFGain:Low #Atten: 36 dB

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

Ref Offset 7 dB
Ref 30.00 dBm

Mkr1 1.755 000 GHz
-33.862 dBm

10 dB/div
Log

Center 1.755000 GHz
#Res BW 30 kHz
#VBW 91 kHz*
Span 2.000 MHz
#Sweep 1.00 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
Man

Auto

Freq Offset
0 Hz



5.1.2.2.2.4 Test RB = RB15#0

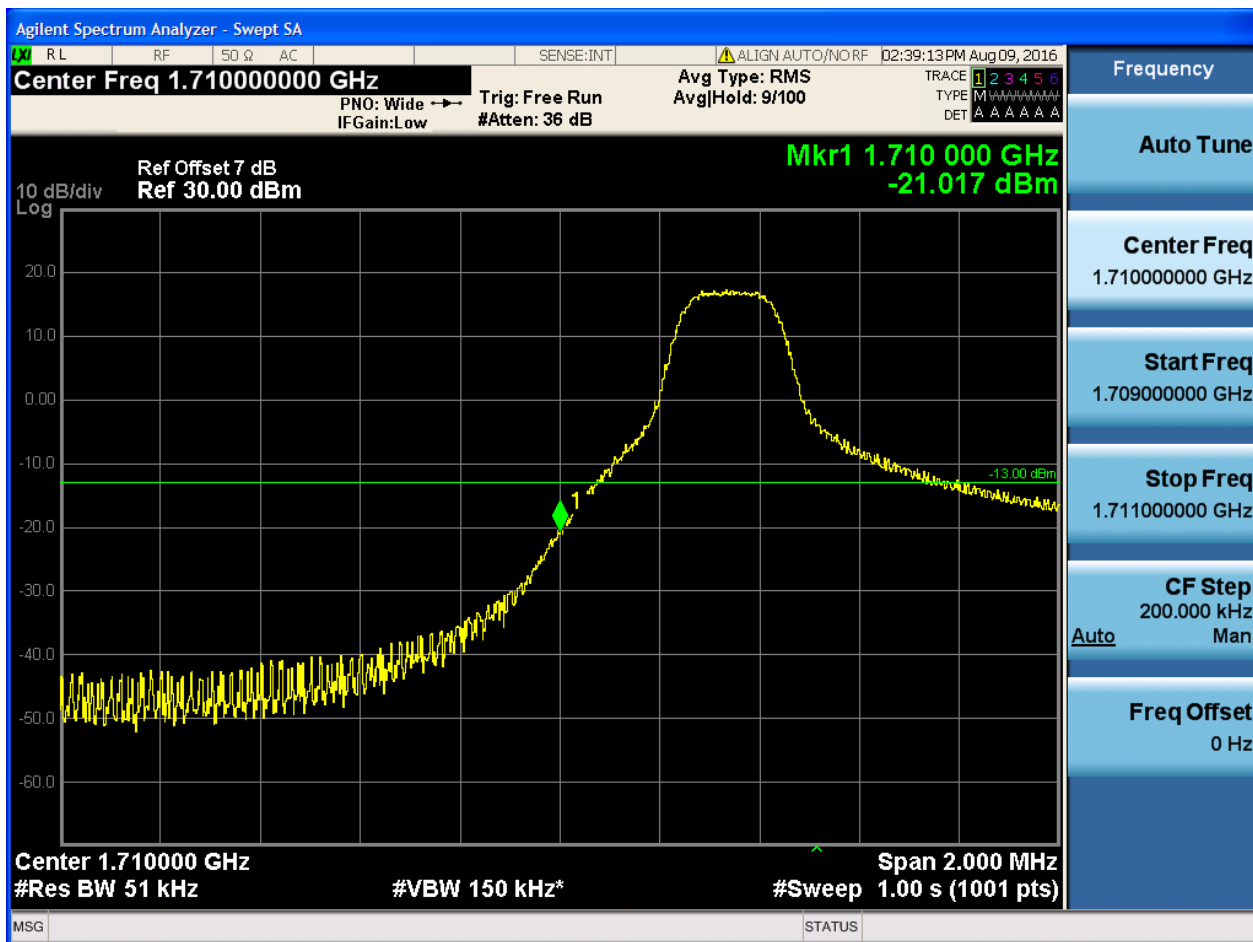




5.1.2.2.3 Test Bandwidth = 5

5.1.2.2.3.1 Test Channel = LCH

5.1.2.2.3.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 1.71000000 GHz

Ref Offset 7 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 1.710 GHz
-39.993 dBm

Center 1.710000 GHz
#Res BW 51 kHz
#VBW 150 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq
1.71000000 GHz

Start Freq
1.709000000 GHz

Stop Freq
1.711000000 GHz

CF Step
200.000 kHz
Man

Freq Offset
0 Hz

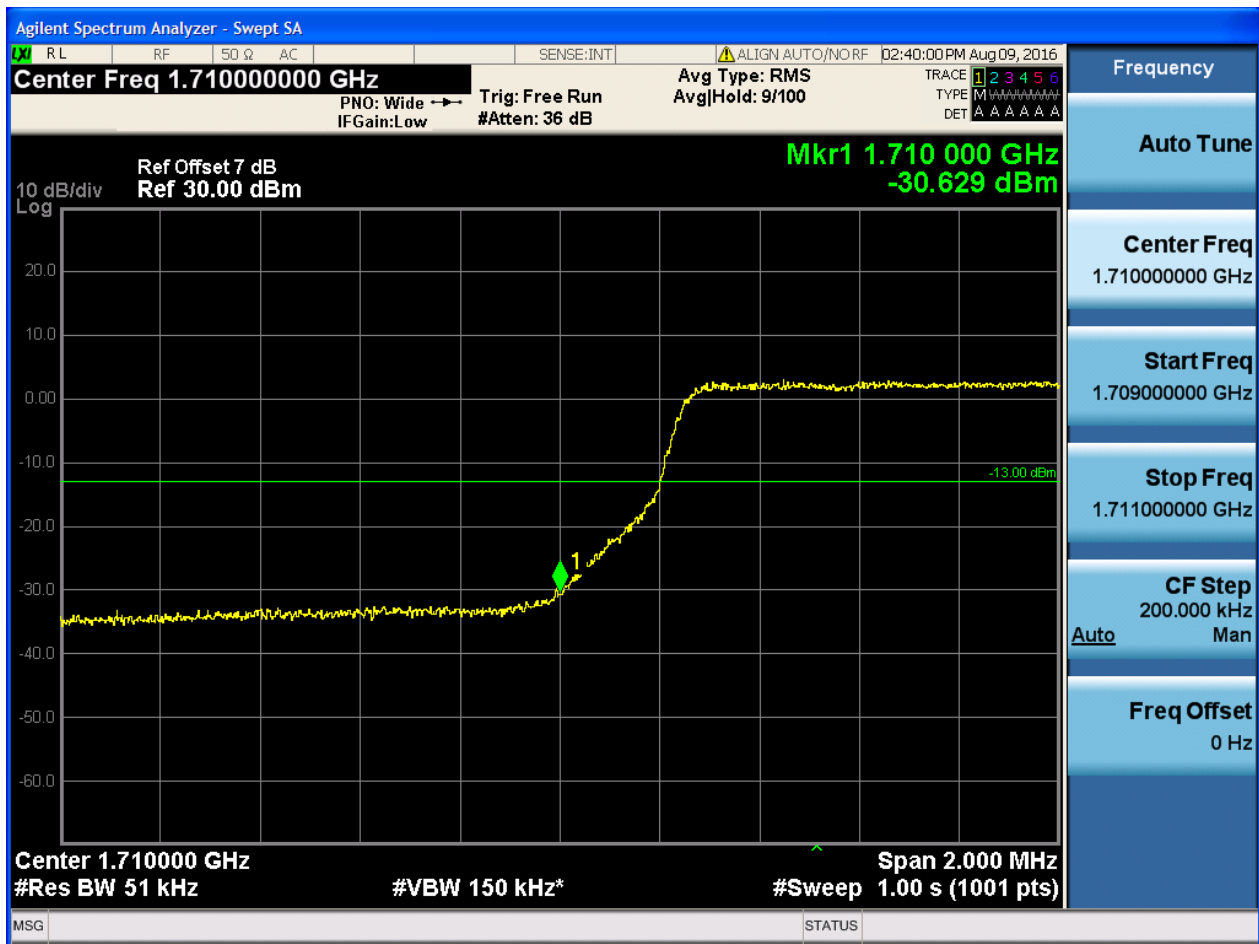


5.1.2.2.3.1.3 Test RB = RB12#6





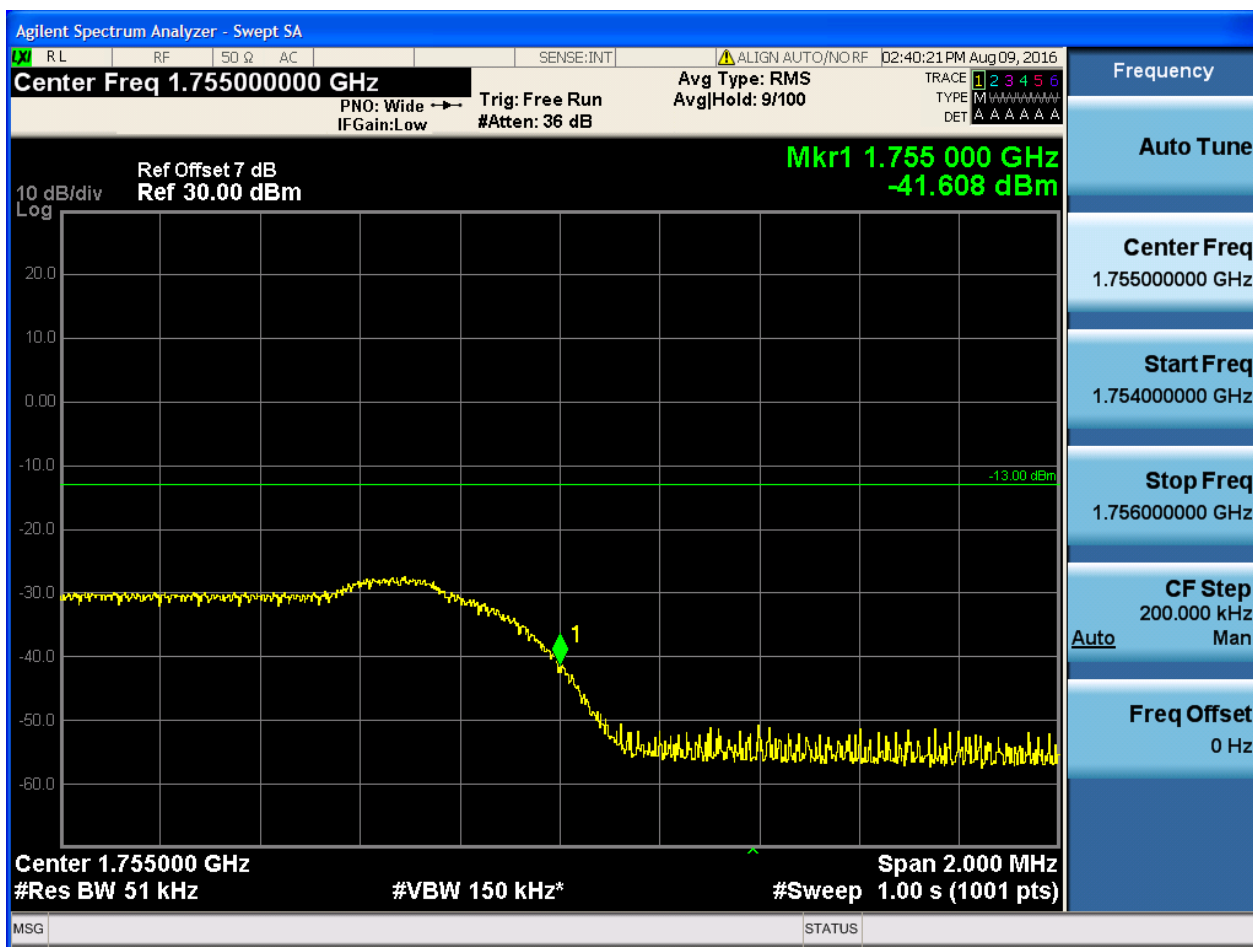
5.1.2.2.3.1.4 Test RB = RB25#0





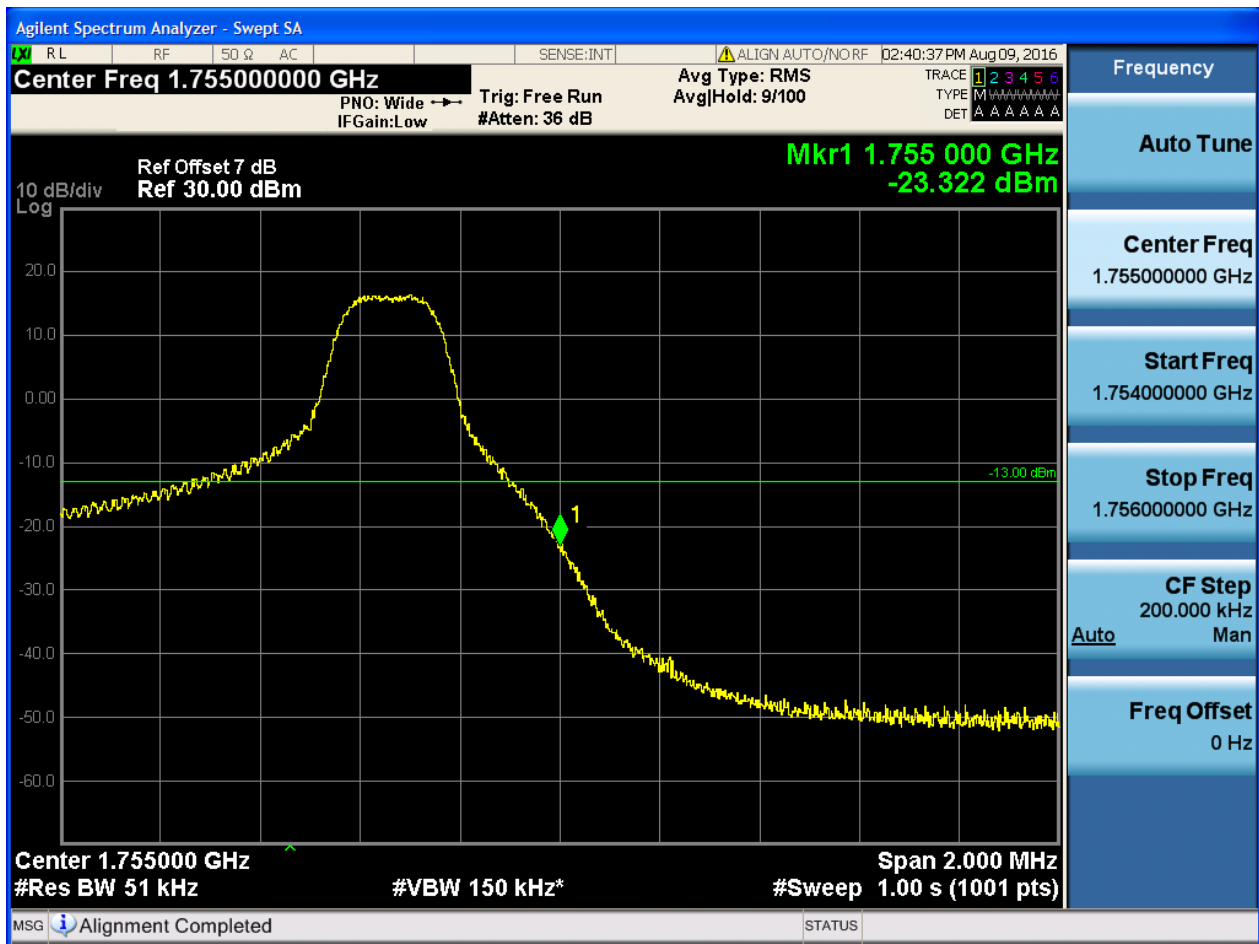
5.1.2.2.3.2 Test Channel = HCH

5.1.2.2.3.2.1 Test RB = RB1#0





5.1.2.2.3.2.2 Test RB = RB1#24





5.1.2.2.3.2.3 Test RB = RB12#6





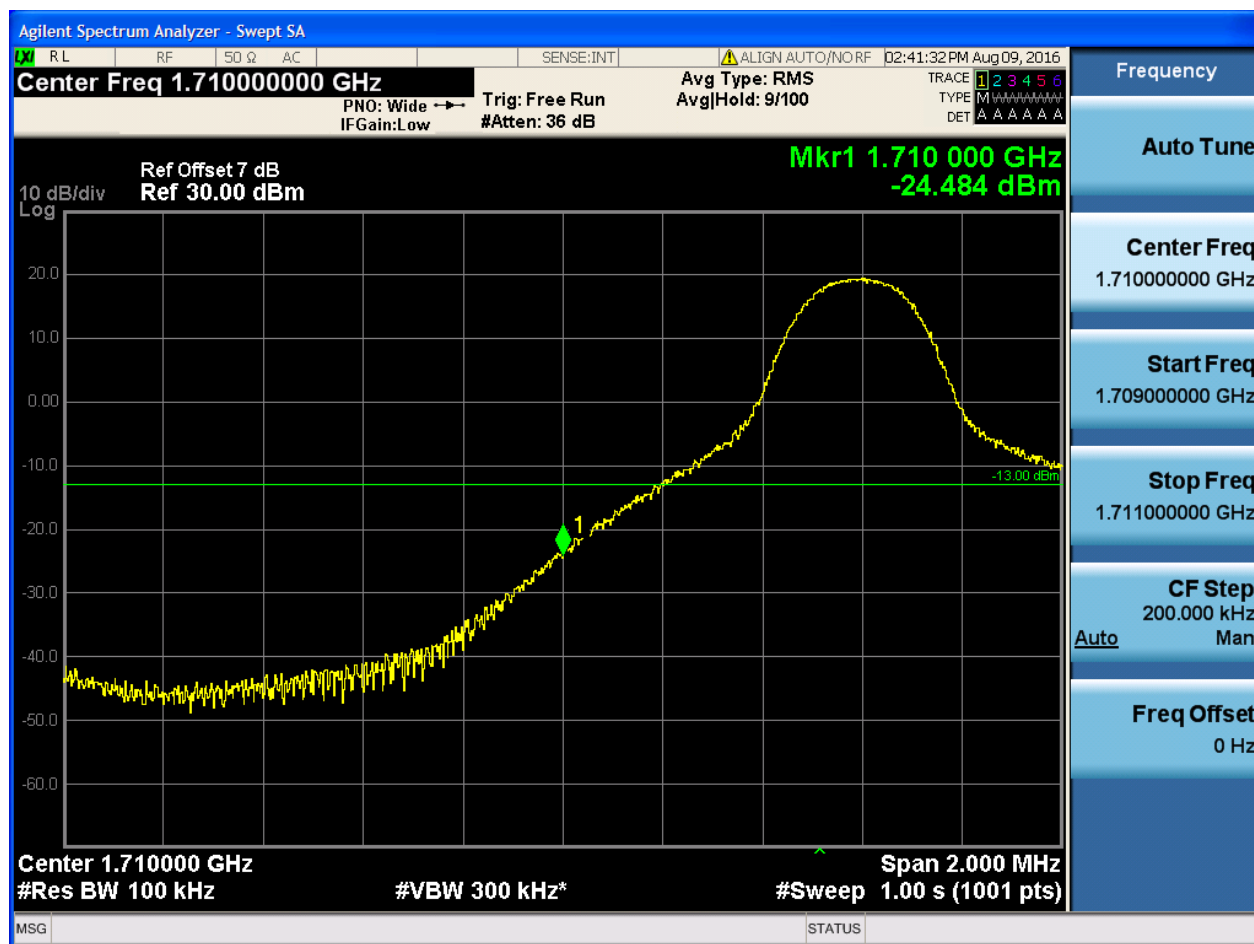
5.1.2.2.3.2.4 Test RB = RB25#0



5.1.2.2.4 Test Bandwidth = 10

5.1.2.2.4.1 Test Channel = LCH

5.1.2.2.4.1.1 Test RB = RB1#0



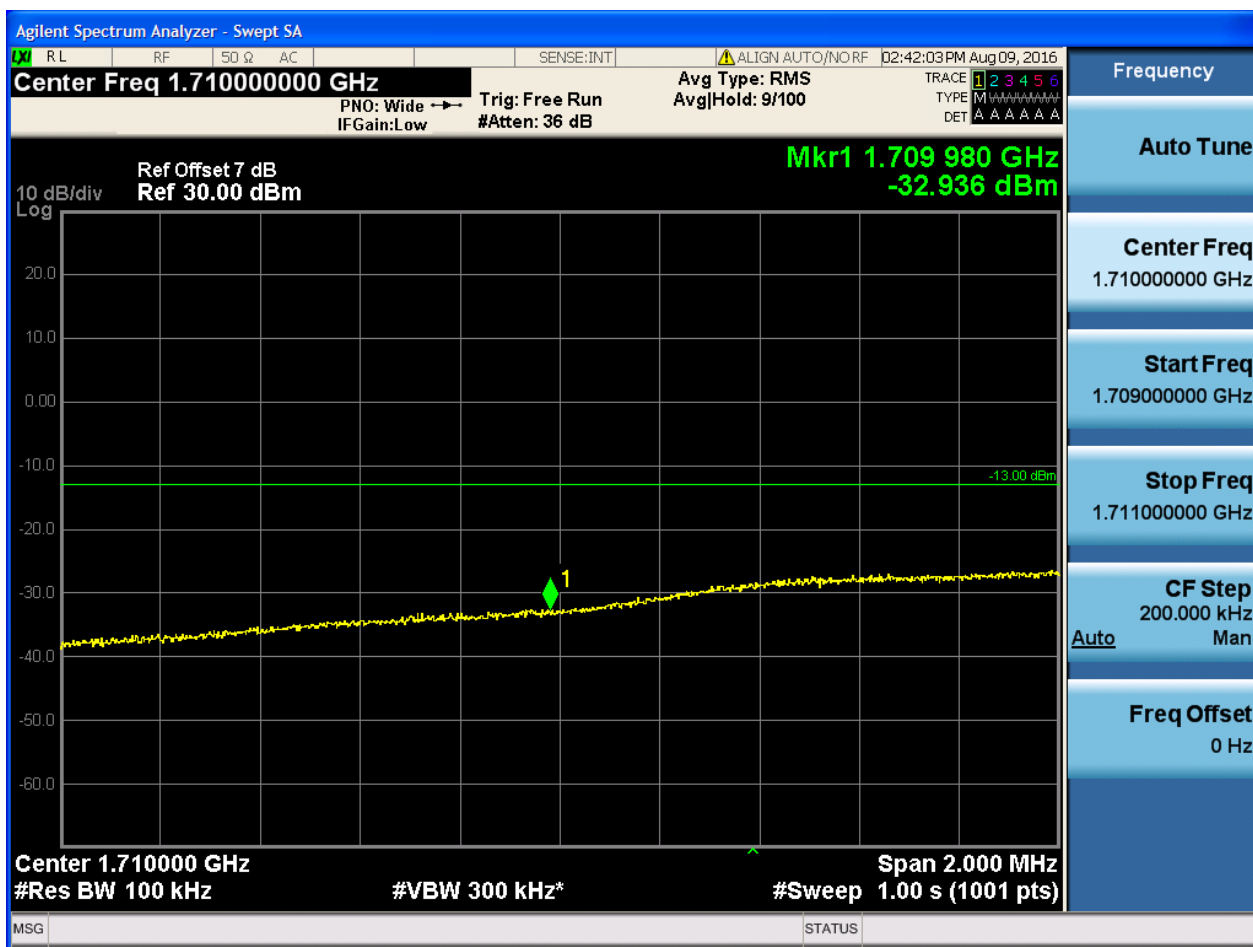


5.1.2.2.4.1.2 Test RB = RB1#49





5.1.2.2.4.1.3 Test RB = RB25#13





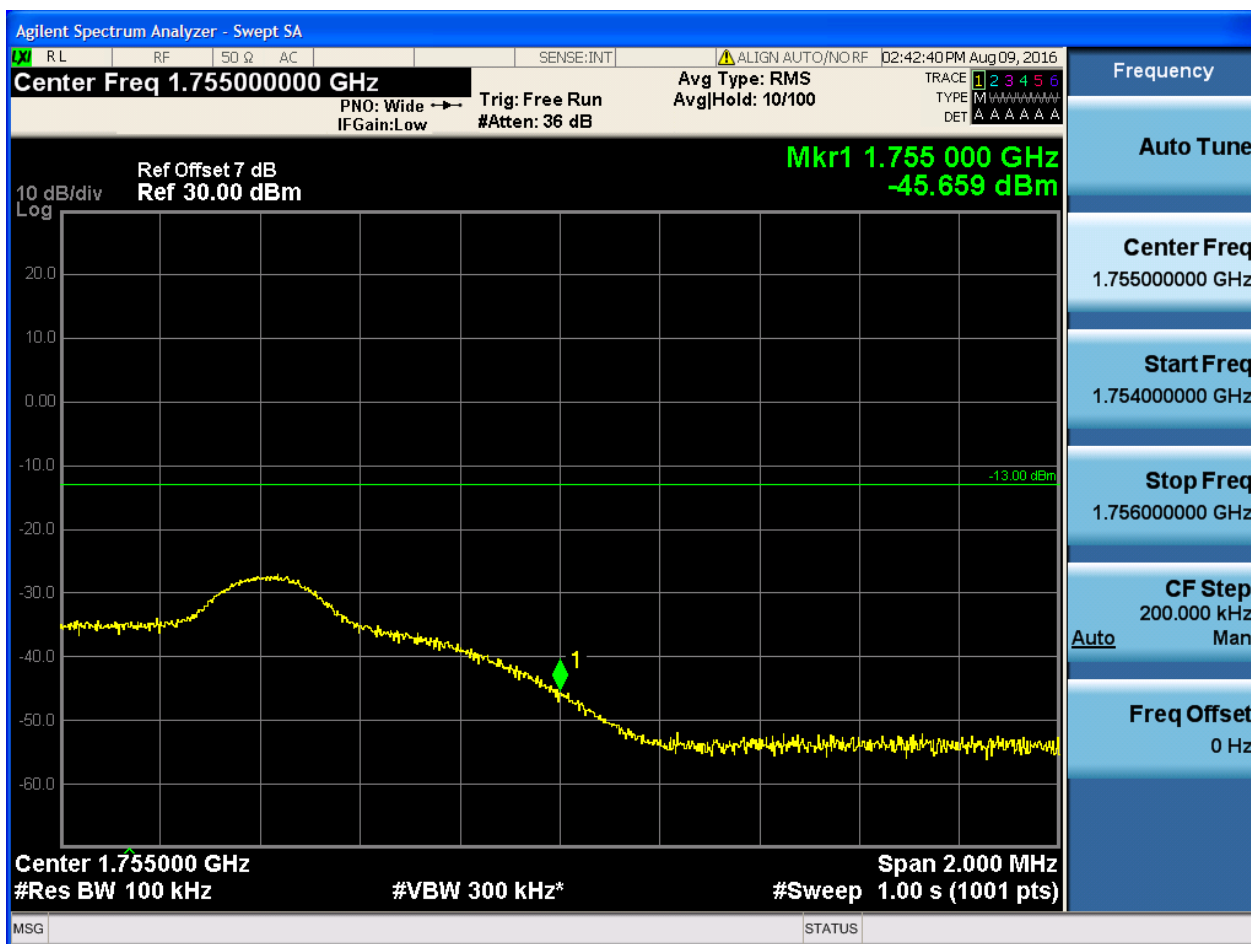
5.1.2.2.4.1.4 Test RB = RB50#0





5.1.2.2.4.2 Test Channel = HCH

5.1.2.2.4.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 1.755000000 GHz

Ref Offset 7 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 1.755 000 GHz
-24.336 dBm

Center 1.755000 GHz
#Res BW 100 kHz
#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.00 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
Man

Auto

Freq Offset
0 Hz

Trig: Free Run
#Atten: 36 dB

Avg Type: RMS
Avg/Hold: 10/100

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

ALIGN AUTO/NORF

02:42:57 PM Aug 09, 2016

MSG STATUS



5.1.2.2.4.2.3 Test RB = RB25#13





5.1.2.2.4.2.4 Test RB = RB50#0





5.1.2.2.5 Test Bandwidth = 15

5.1.2.2.5.1 Test Channel = LCH

5.1.2.2.5.1.1 Test RB = RB1#0



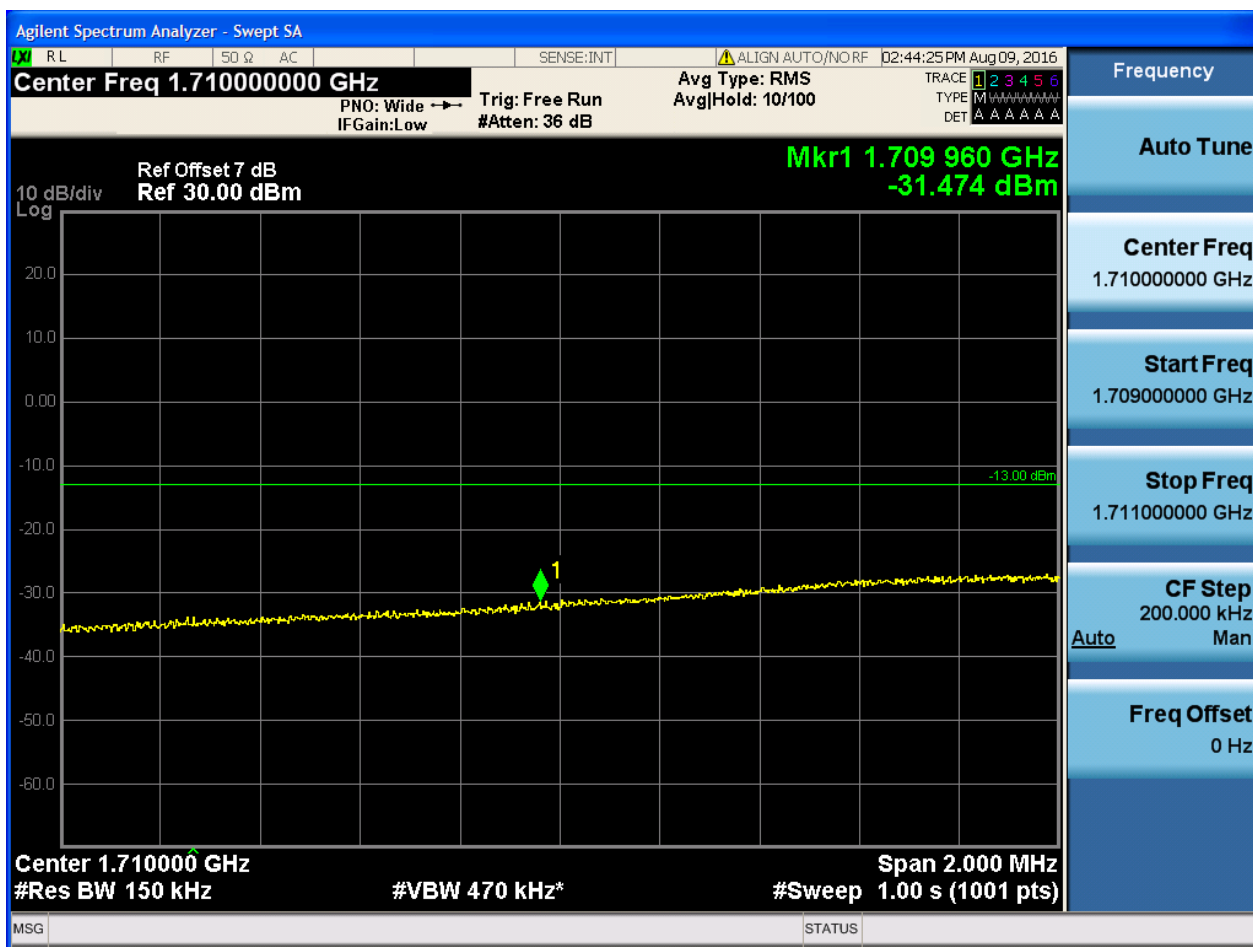


5.1.2.2.5.1.2 Test RB = RB1#74





5.1.2.2.5.1.3 Test RB = RB38#19





5.1.2.2.5.1.4 Test RB = RB75#0





5.1.2.2.5.2 Test Channel = HCH

5.1.2.2.5.2.1 Test RB = RB1#0





5.1.2.2.5.2.2 Test RB = RB1#74





5.1.2.2.5.2.3 Test RB = RB38#19





5.1.2.2.5.2.4 Test RB = RB75#0





5.1.2.2.6 Test Bandwidth = 20

5.1.2.2.6.1 Test Channel = LCH

5.1.2.2.6.1.1 Test RB = RB1#0



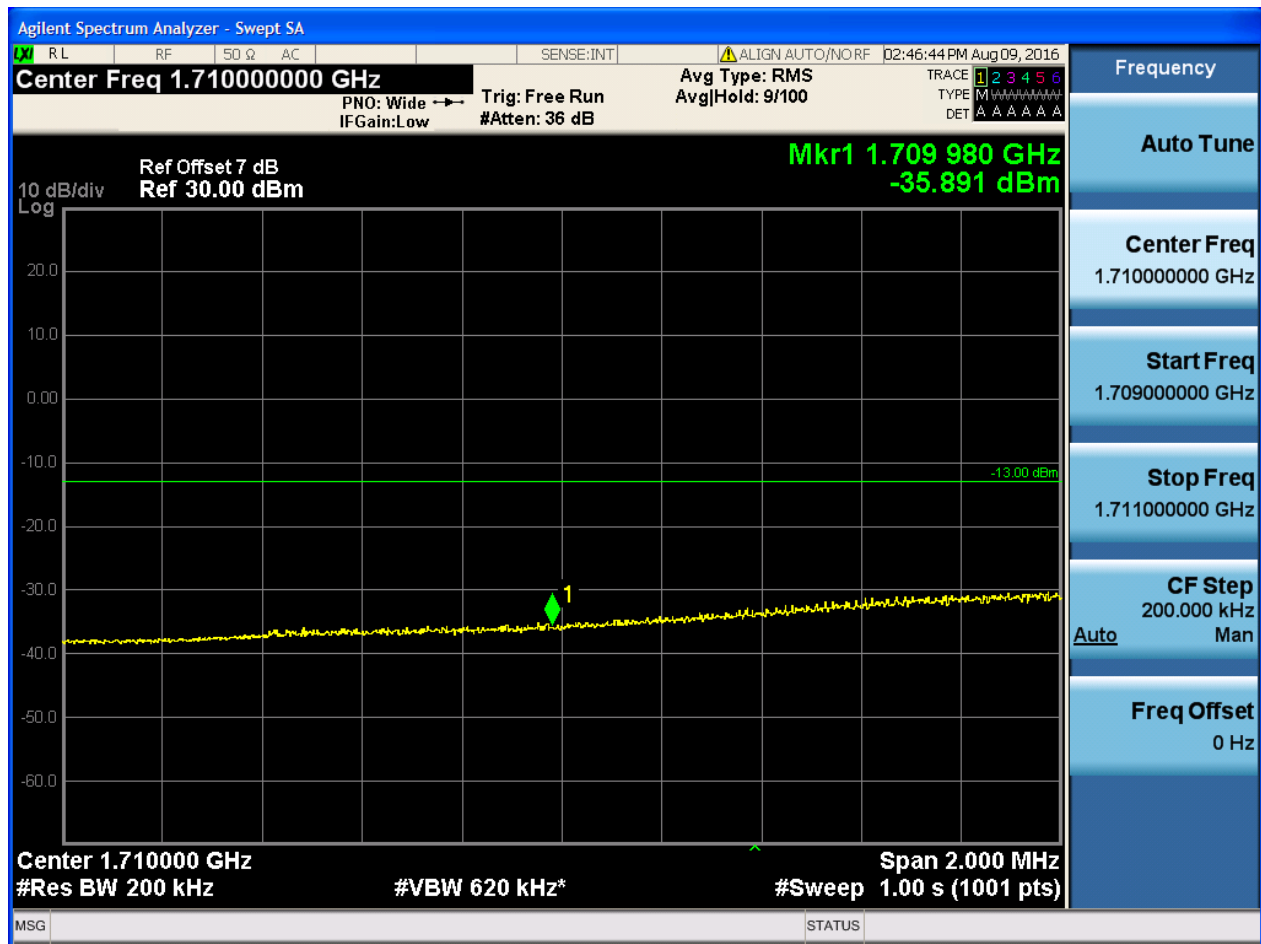


5.1.2.2.6.1.2 Test RB = RB1#99





5.1.2.2.6.1.3 Test RB = RB50#25





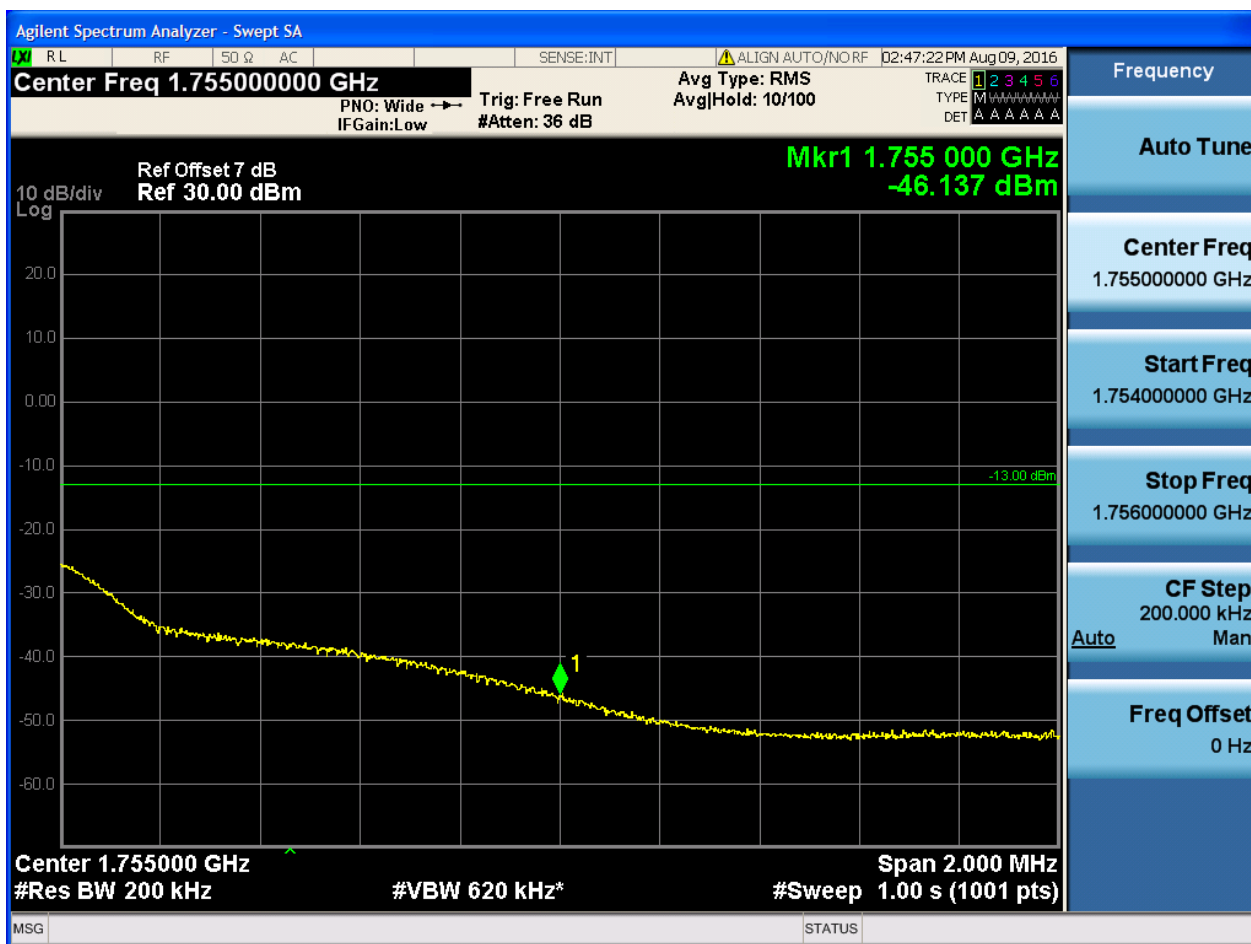
5.1.2.2.6.1.4 Test RB = RB100#0





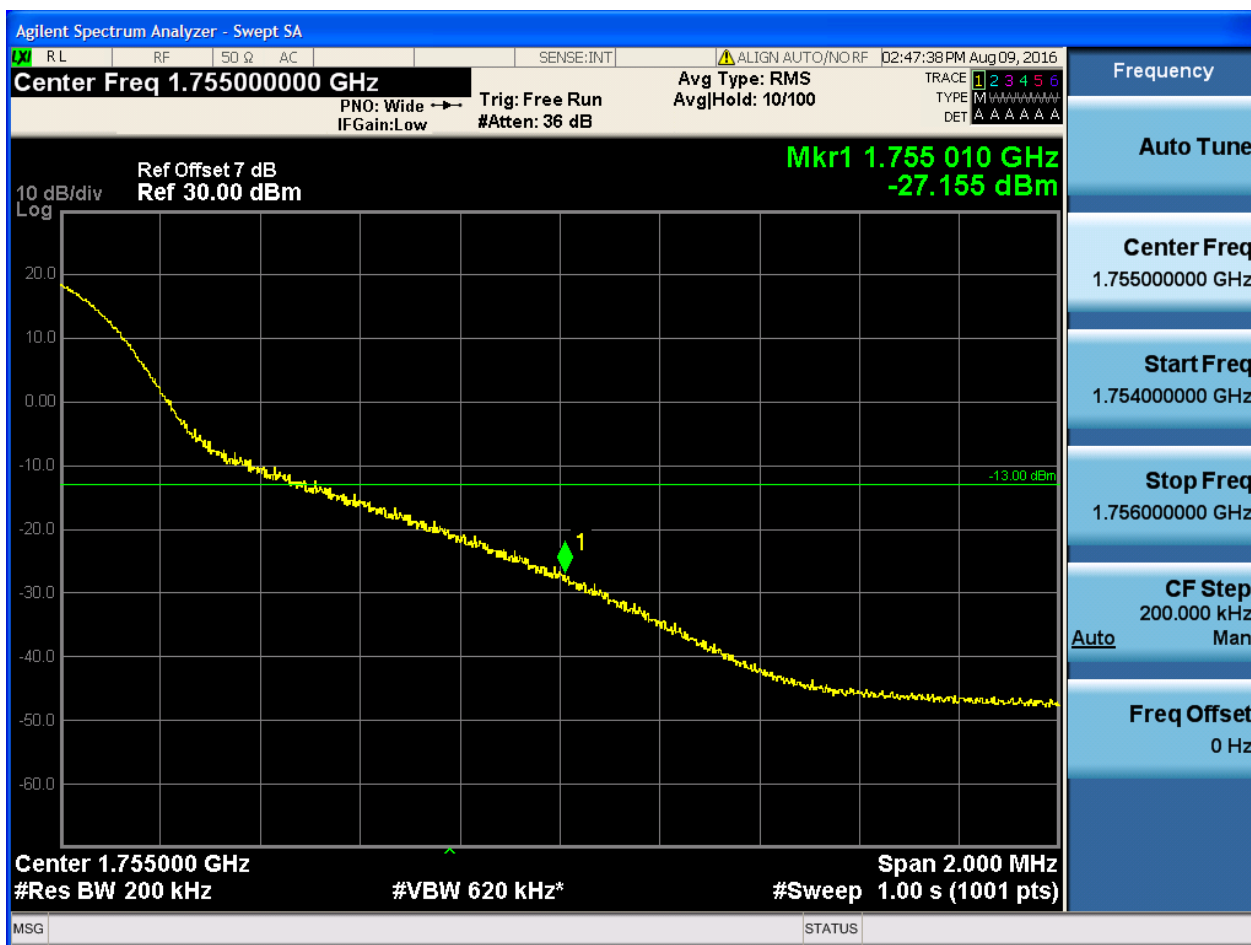
5.1.2.2.6.2 Test Channel = HCH

5.1.2.2.6.2.1 Test RB = RB1#0





5.1.2.2.6.2.2 Test RB = RB1#99





5.1.2.2.6.2.3 Test RB = RB50#25





5.1.2.2.6.2.4 Test RB = RB100#0



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

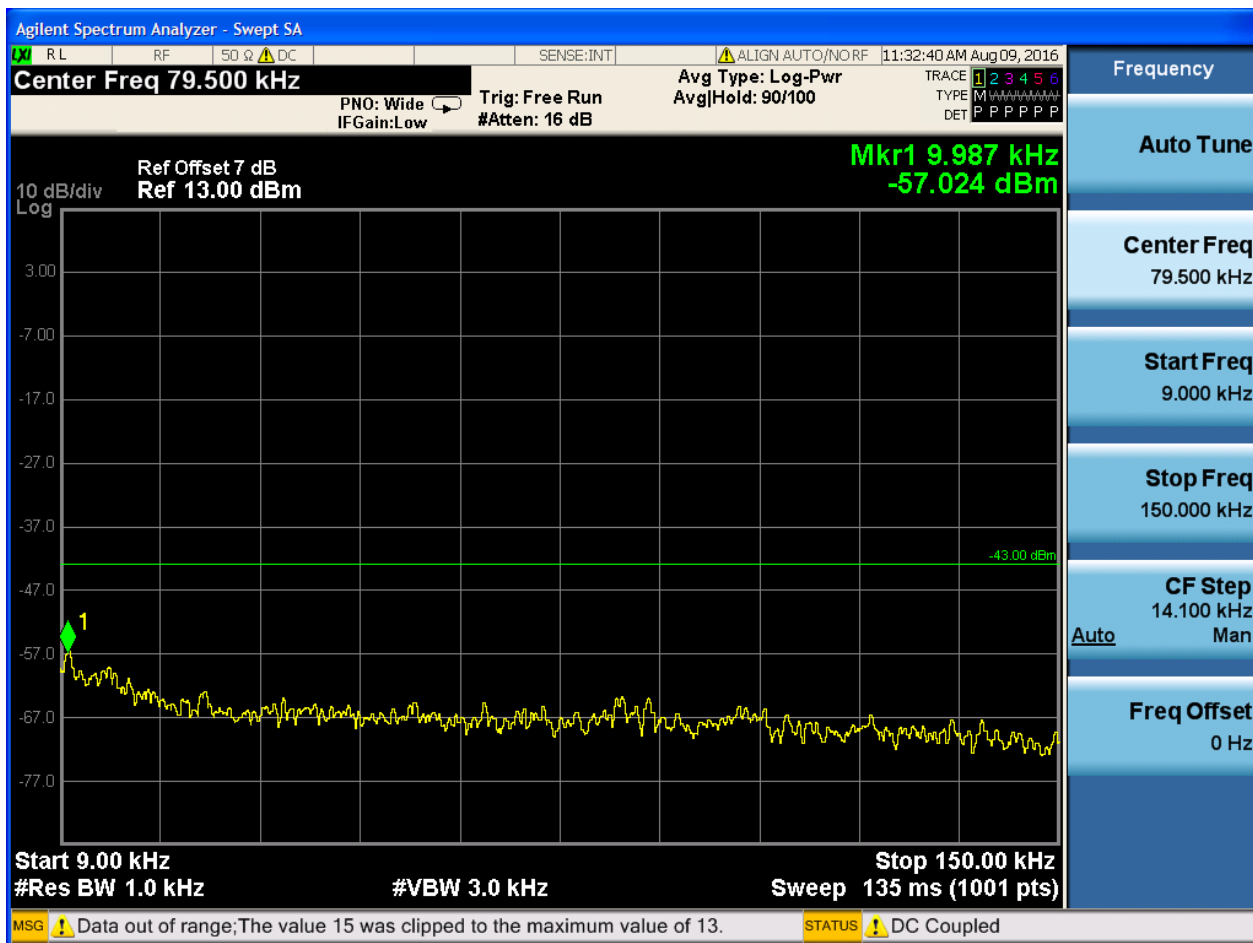
6.1.1 Test Band = BAND2

6.1.1.1 Test Mode = LTE/TM1

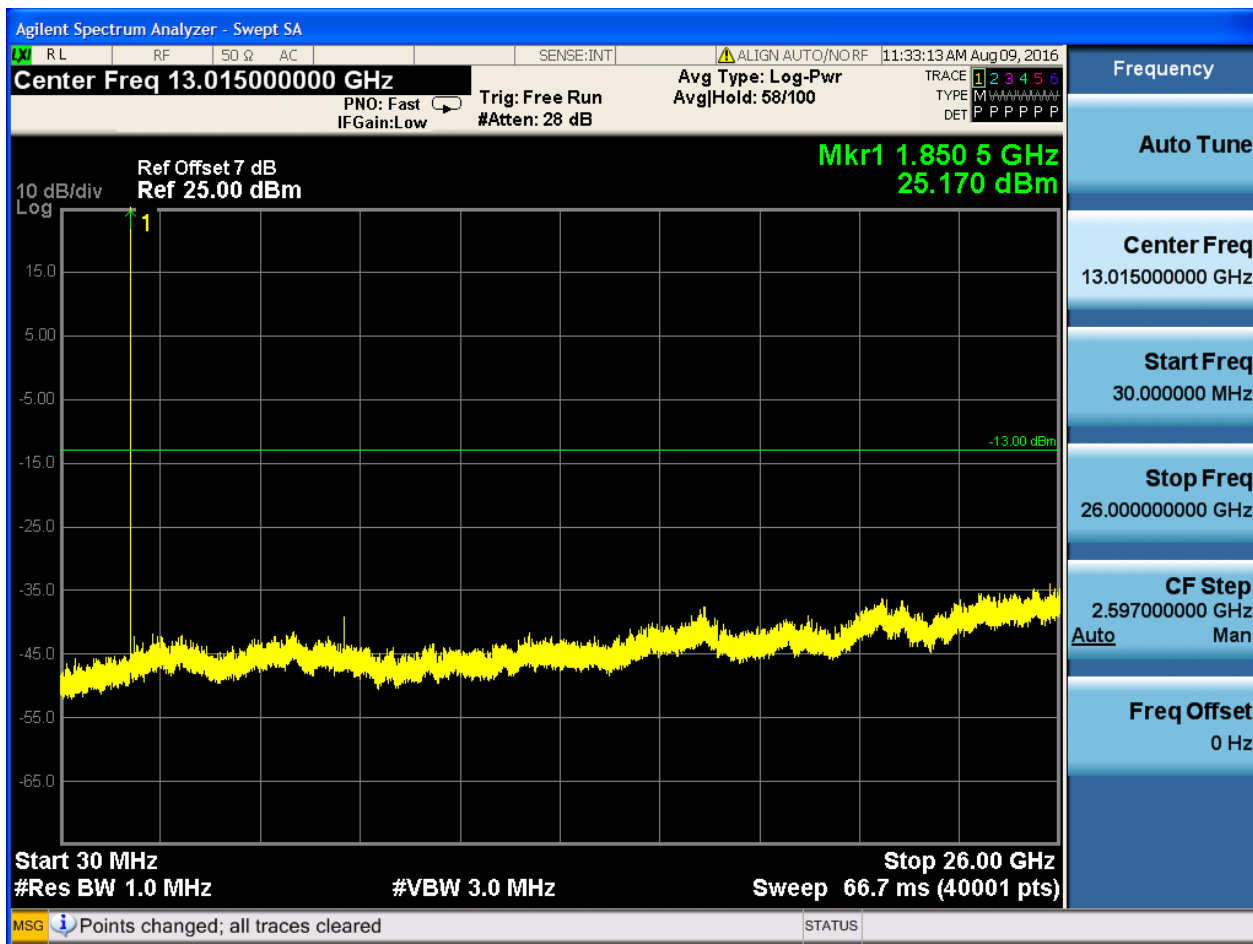
6.1.1.1.1 Test Bandwidth = 1.4

6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0



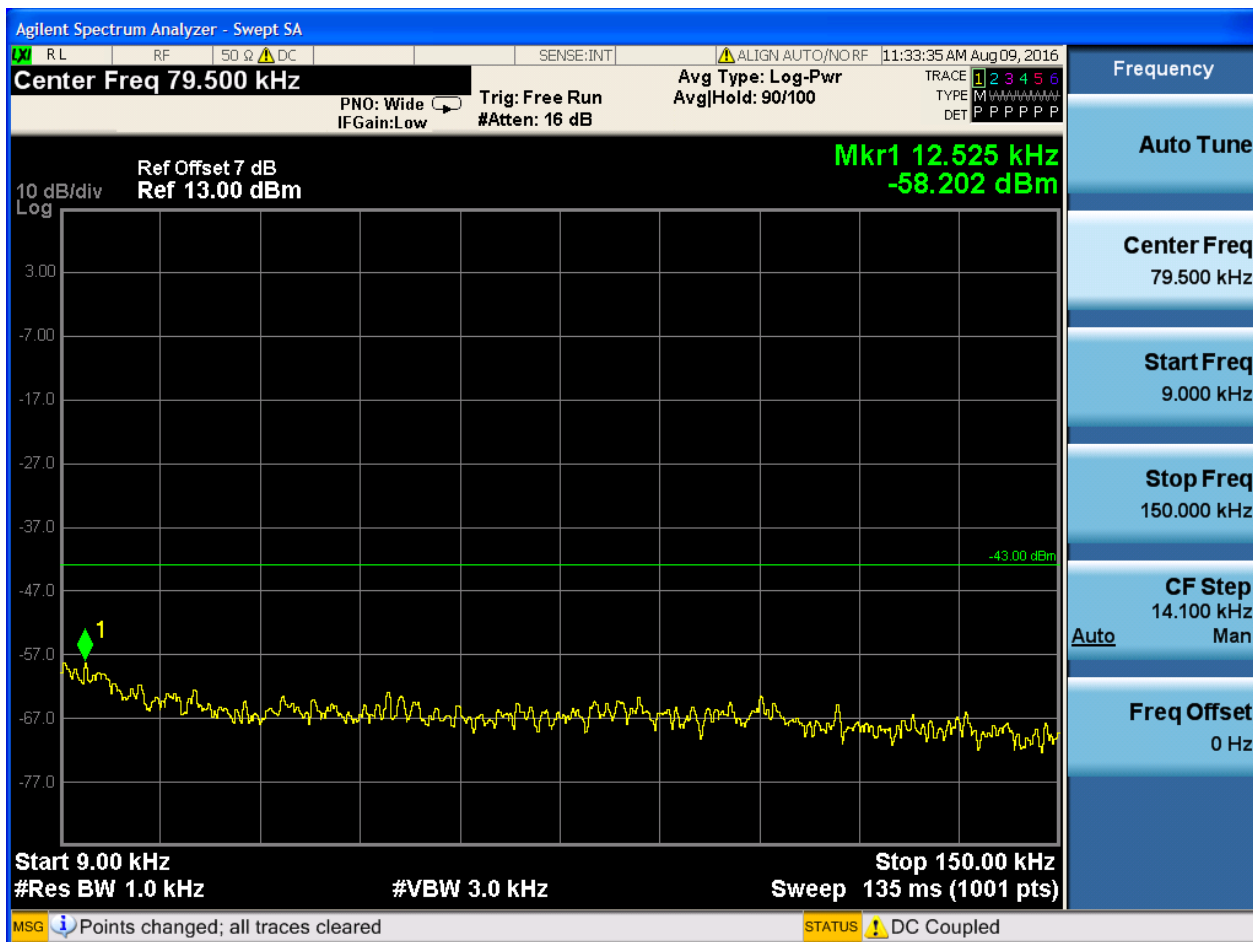


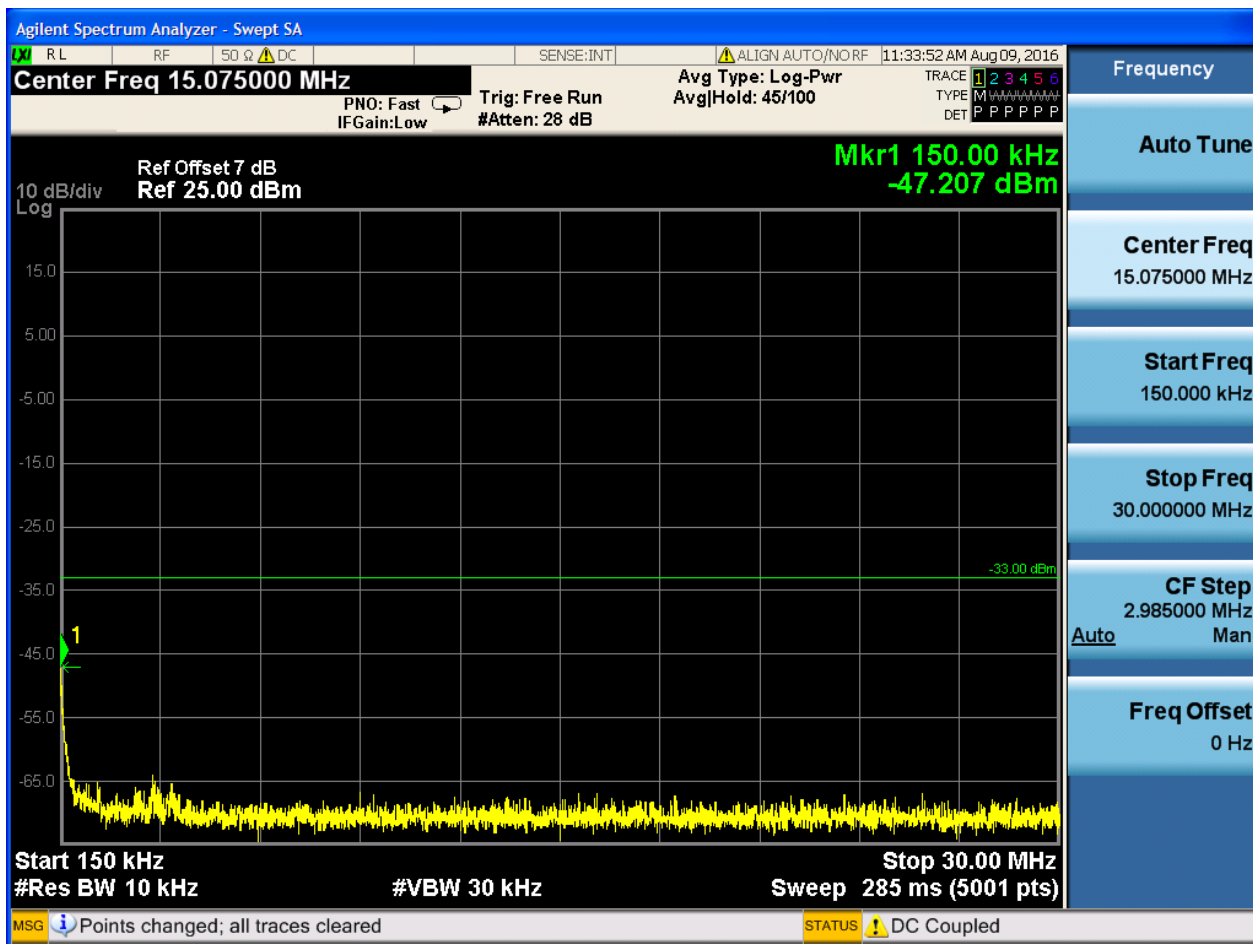


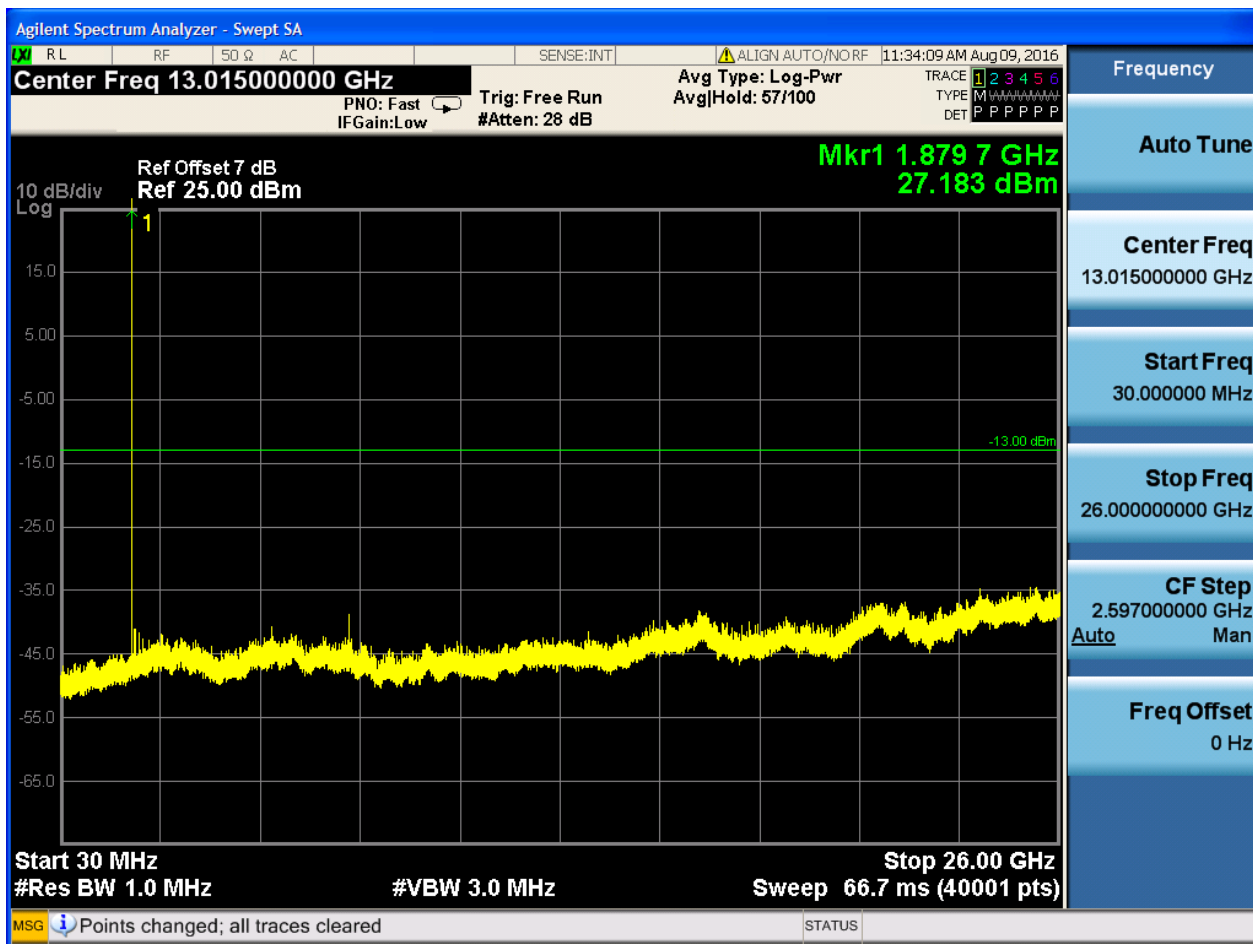


6.1.1.1.1.2 Test Channel = MCH

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

