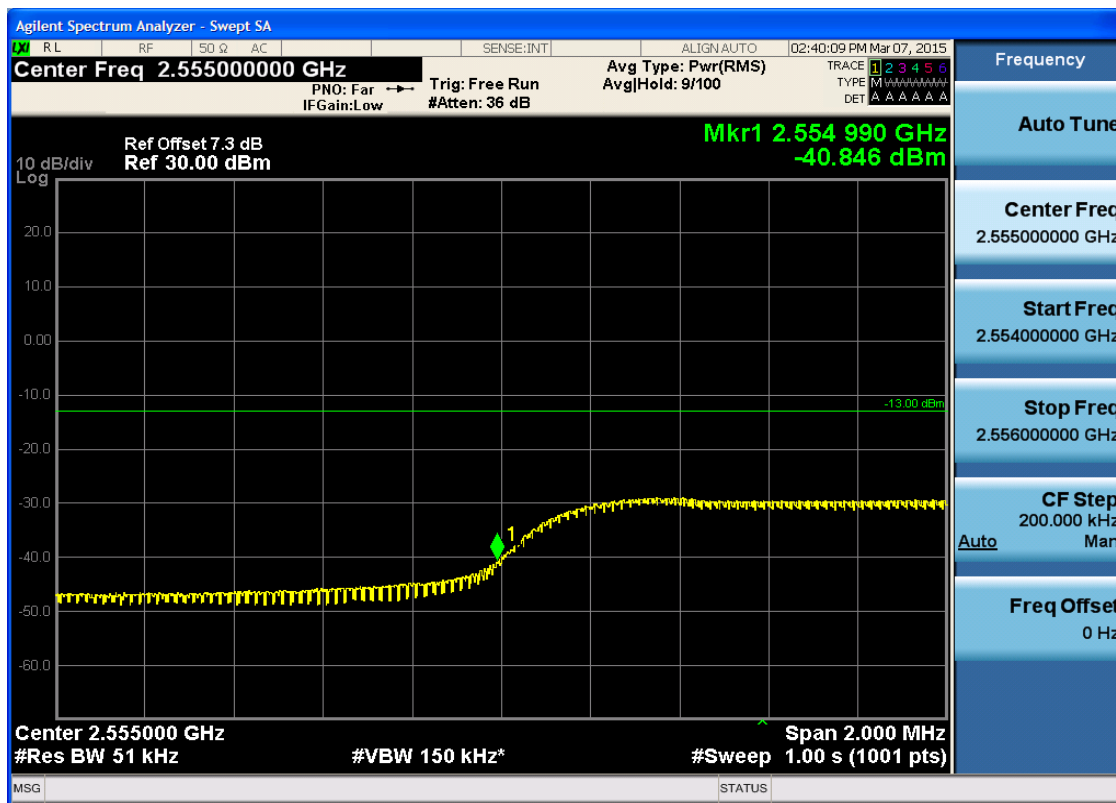


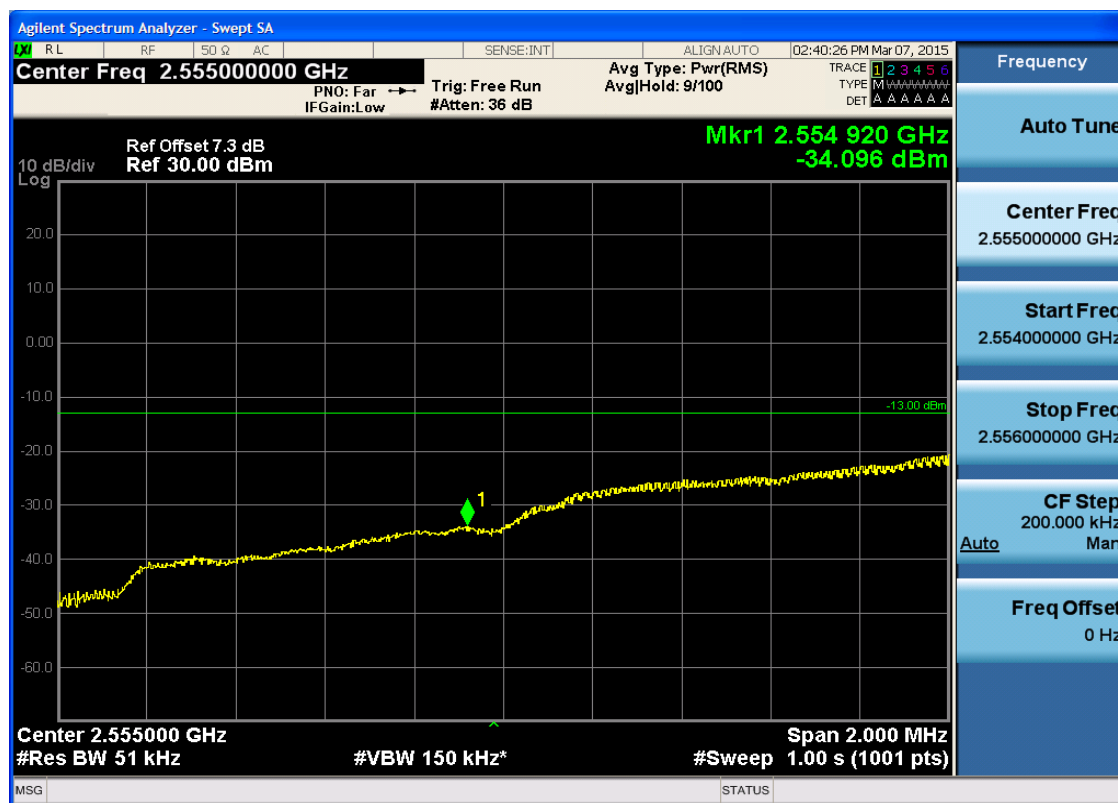


5.1.4.1.1.1.2 Test RB = RB1#24



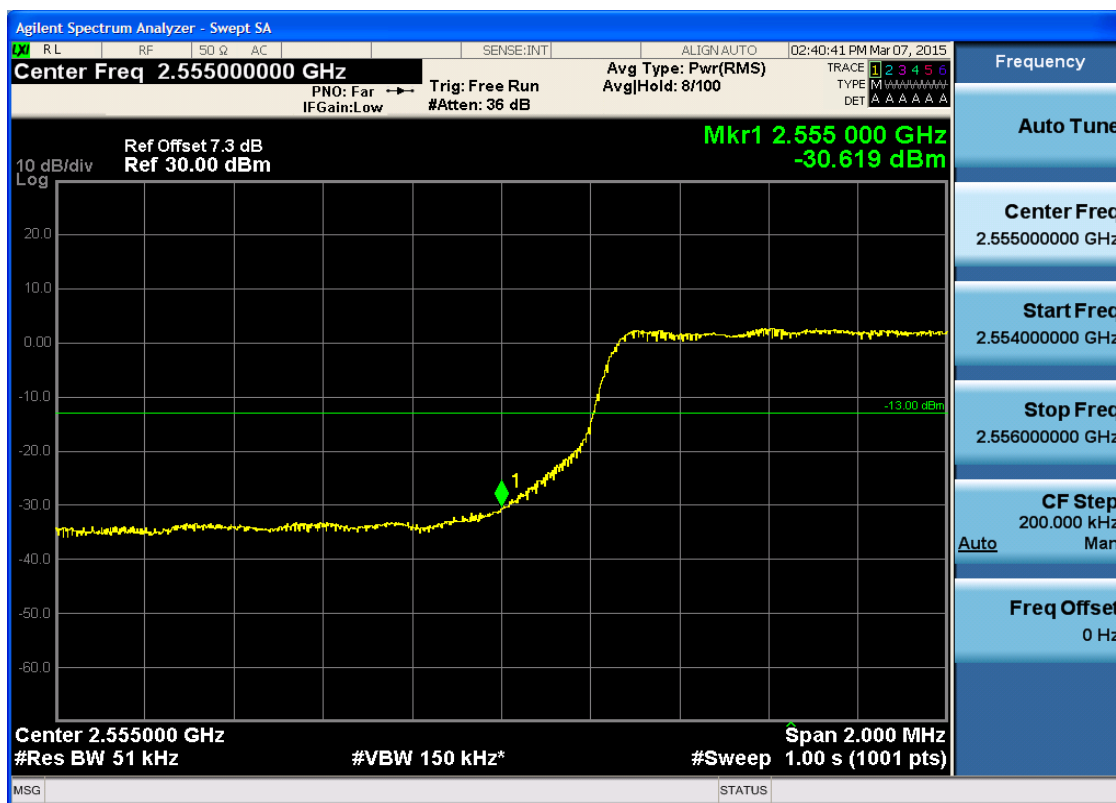


5.1.4.1.1.1.3 Test RB = RB12#6





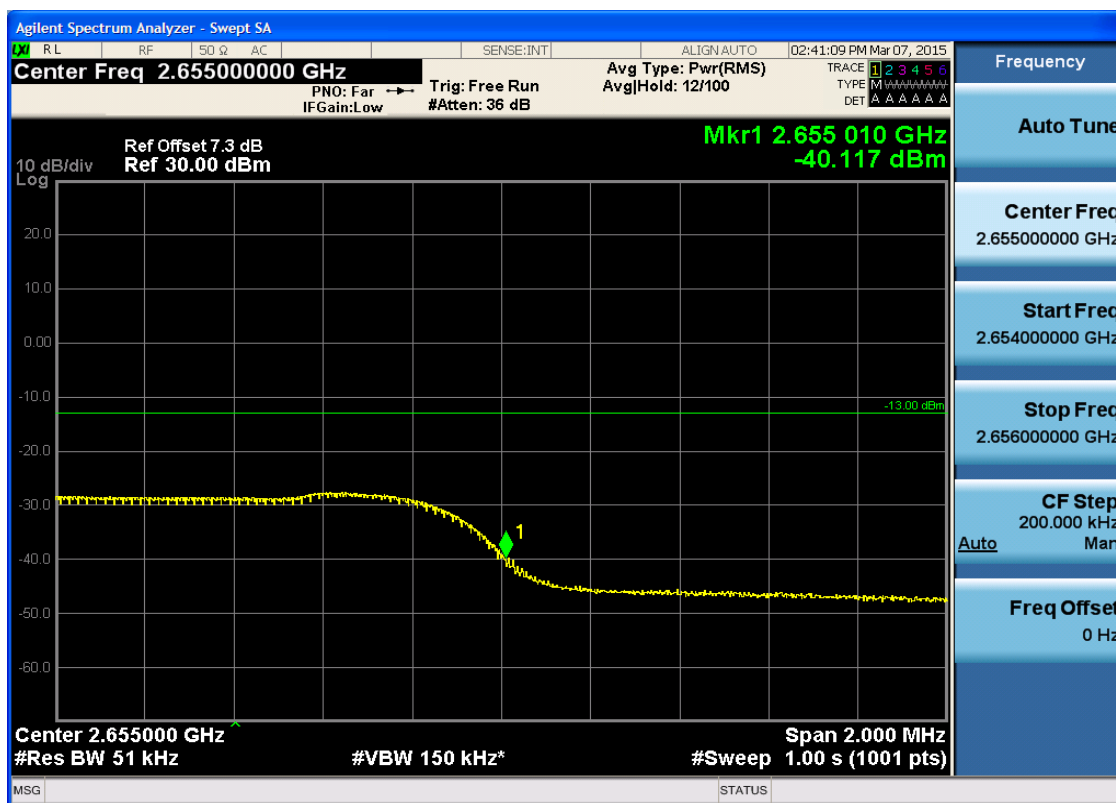
5.1.4.1.1.4 Test RB = RB25#0





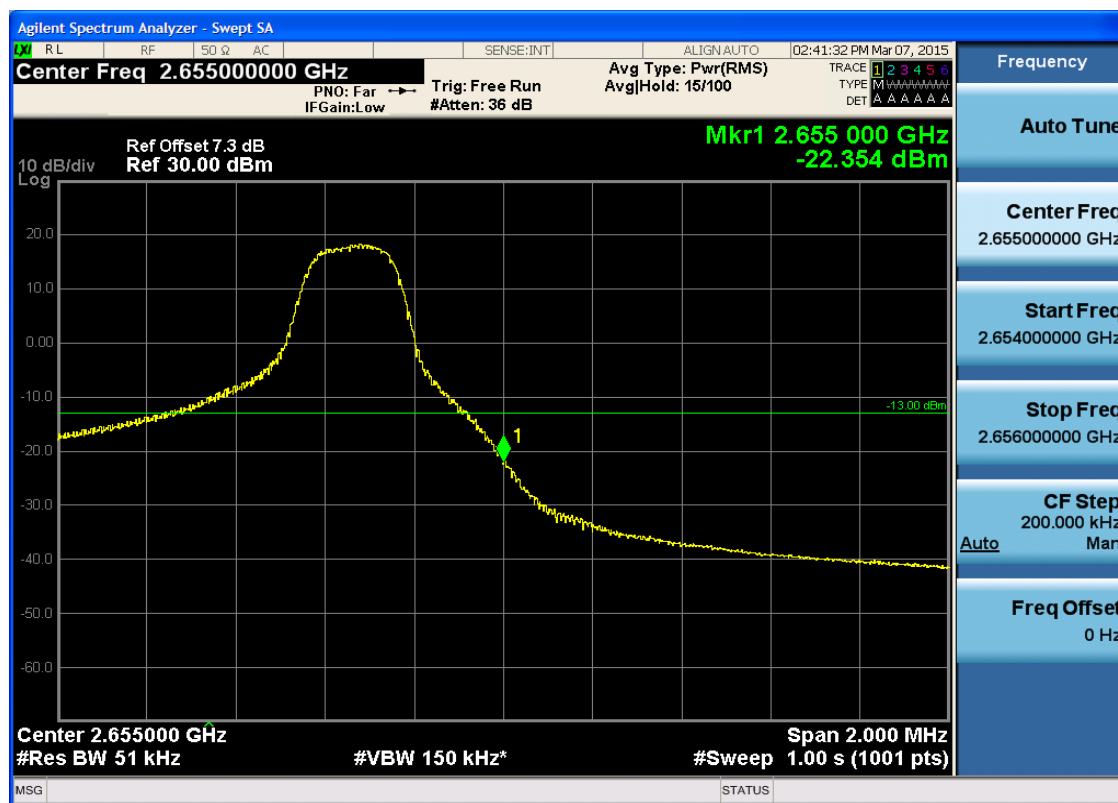
5.1.4.1.1.2 Test Channel = HCH

5.1.4.1.1.2.1 Test RB = RB1#0





5.1.4.1.1.2.2 Test RB = RB1#24





5.1.4.1.1.2.3 Test RB = RB12#6



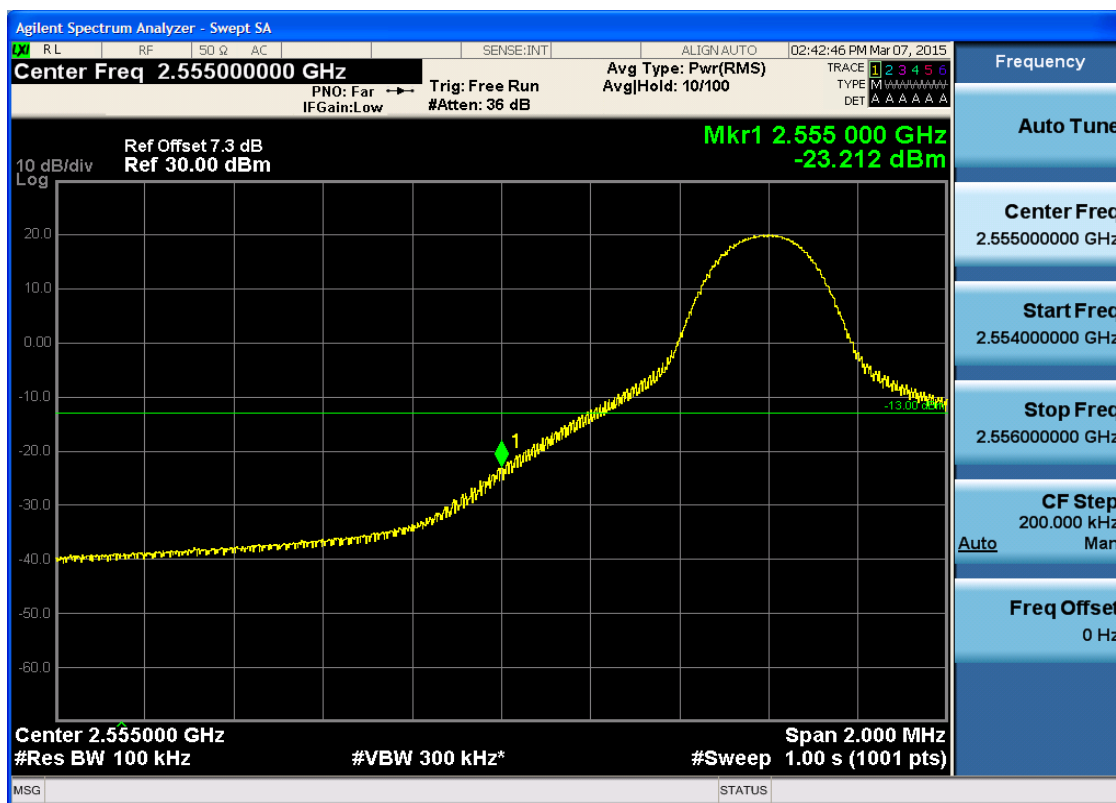
5.1.4.1.1.2.4 Test RB = RB25#0



5.1.4.1.2 Test Bandwidth = 10

5.1.4.1.2.1 Test Channel = LCH

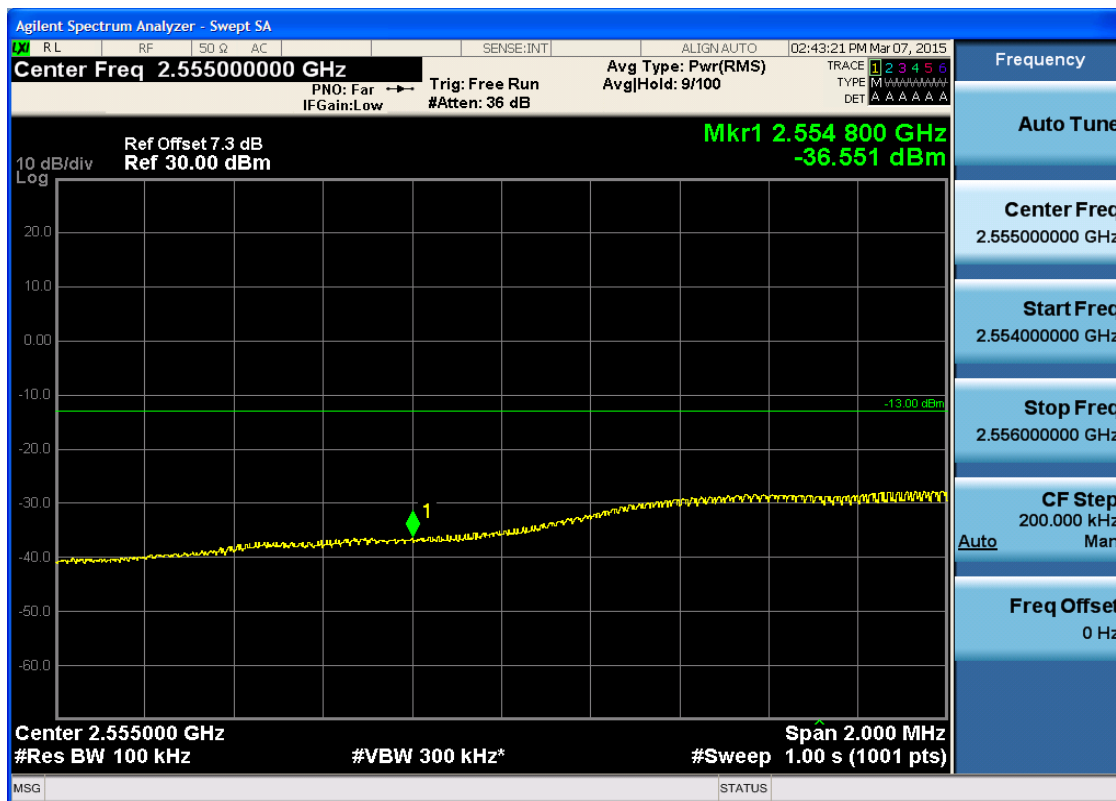
5.1.4.1.2.1.1 Test RB = RB1#0



5.1.4.1.2.1.2 Test RB = RB1#49

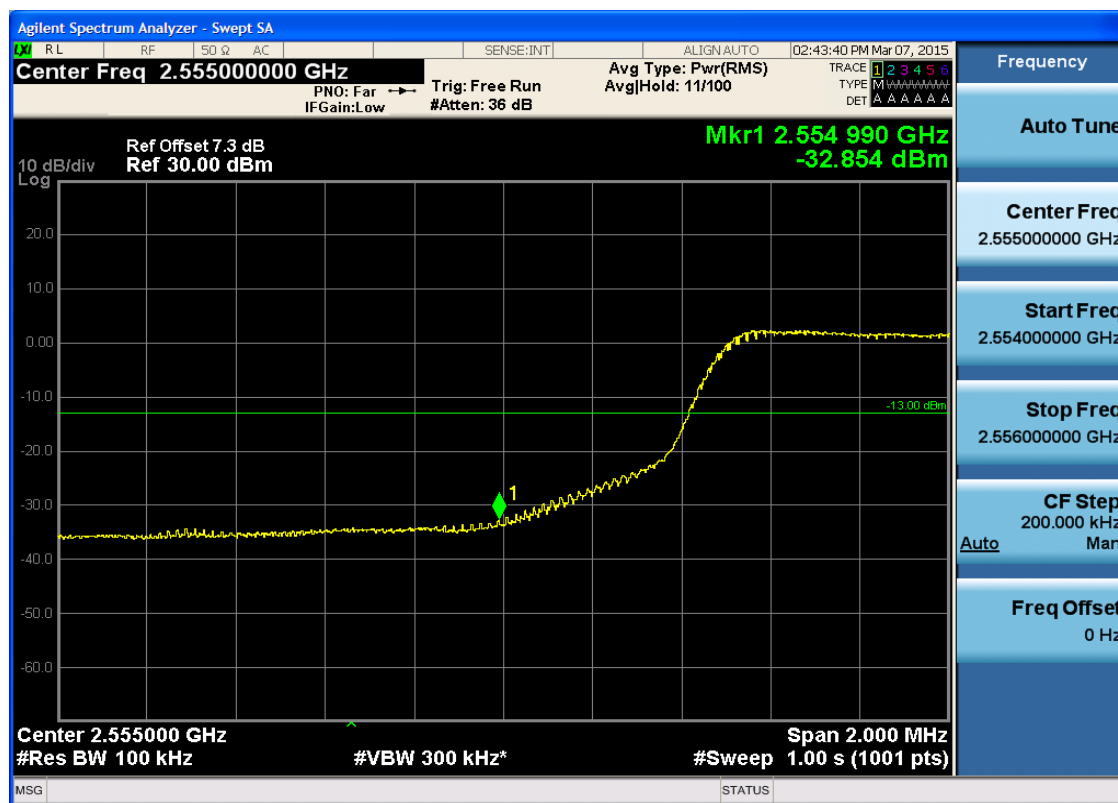


5.1.4.1.2.1.3 Test RB = RB25#13





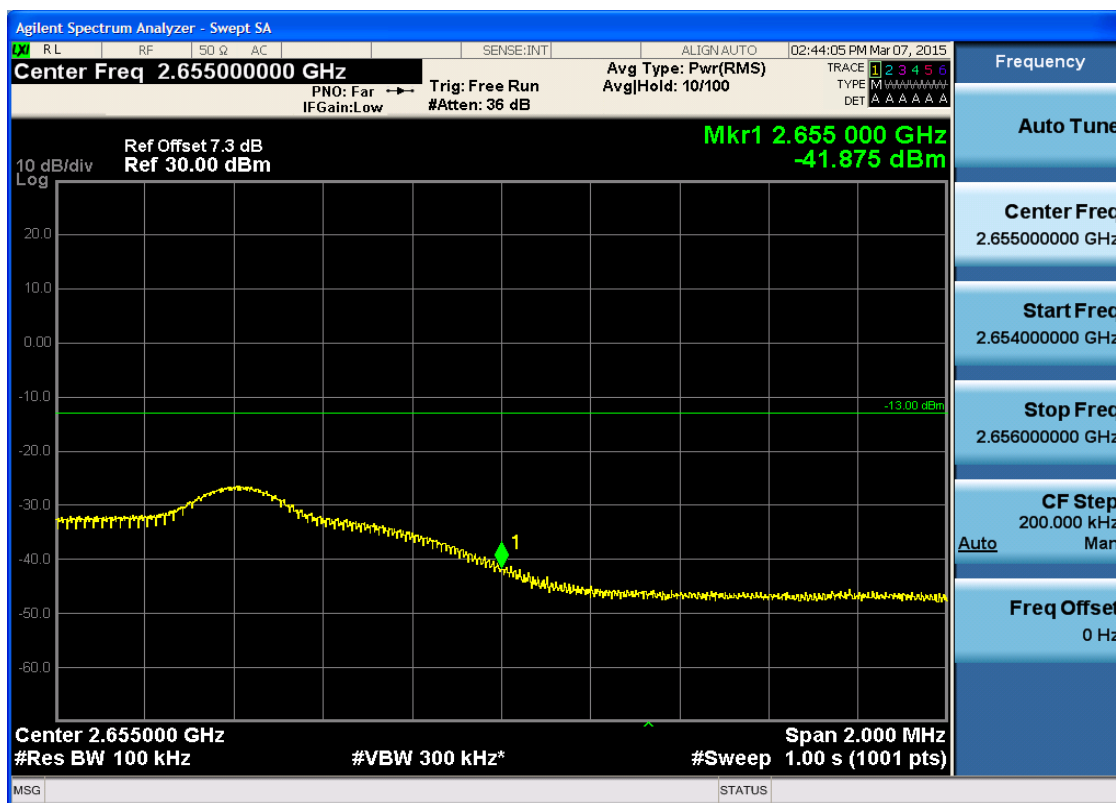
5.1.4.1.2.1.4 Test RB = RB50#0





5.1.4.1.2.2 Test Channel = HCH

5.1.4.1.2.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.65500000 GHz

PNO: Far → Trig: Free Run
IFGain: Low #Atten: 36 dB

Avg Type: Pwr(RMS)
Avg/Hold: 12/100

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 7.3 dB
Ref 30.00 dBm

Mkr1 2.655 000 GHz
-23.515 dBm

10 dB/div
Log

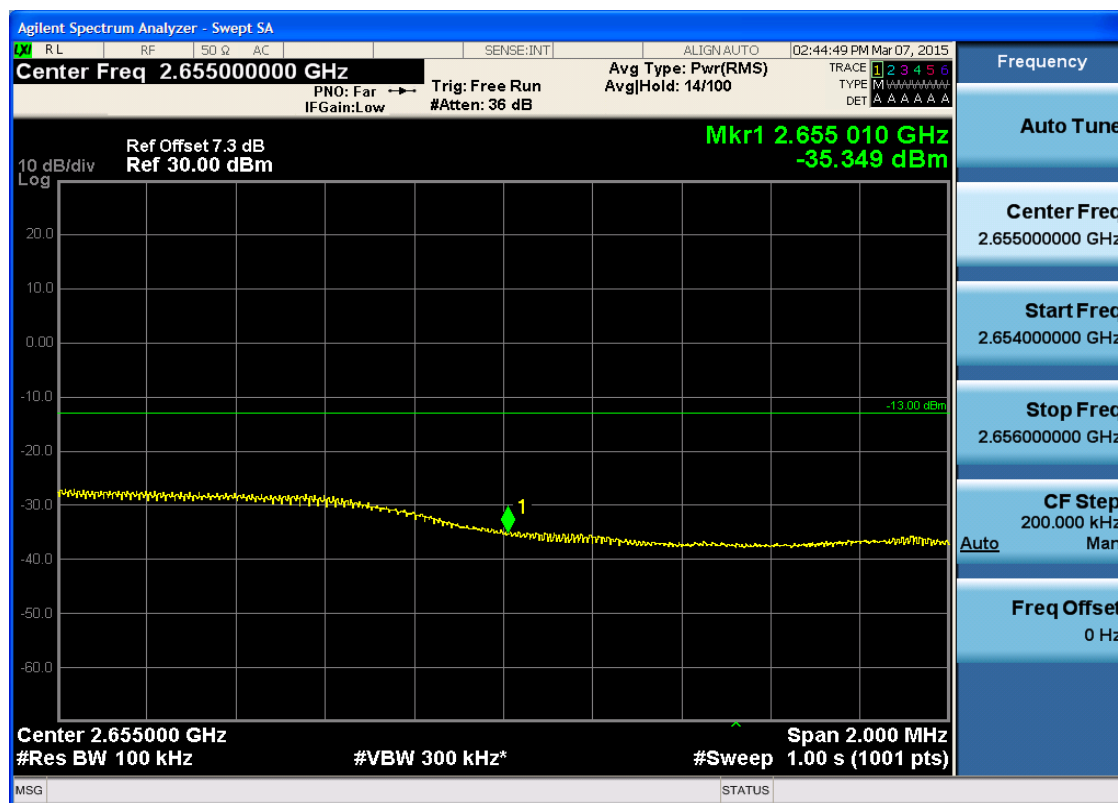
-13.00 dBm

Center 2.655000 GHz
#Res BW 100 kHz
#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)



5.1.4.1.2.2.3 Test RB = RB25#13





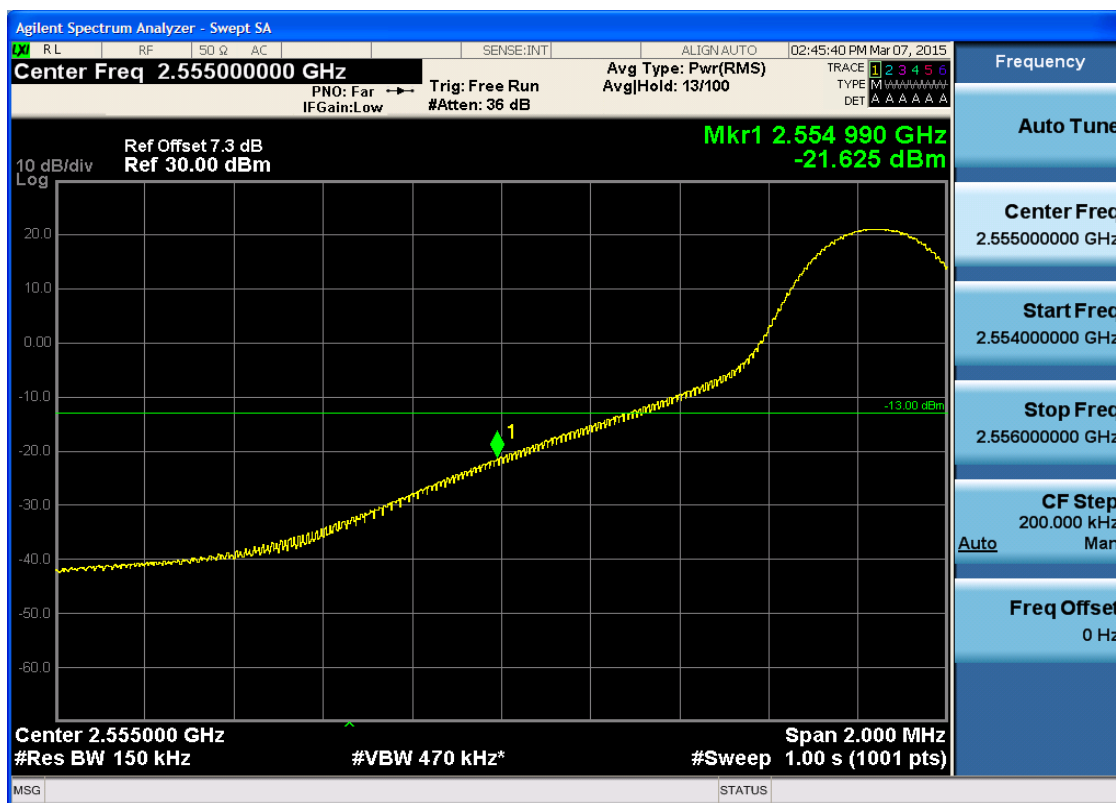
5.1.4.1.2.2.4 Test RB = RB50#0



5.1.4.1.3 Test Bandwidth = 15

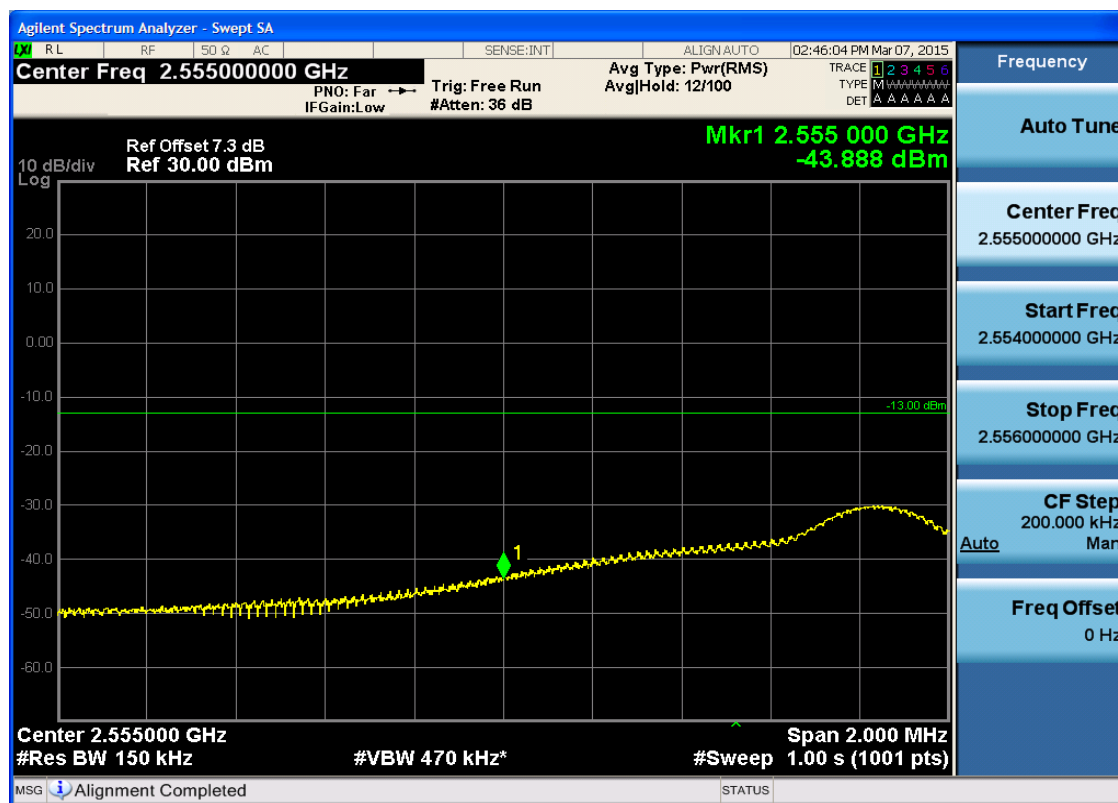
5.1.4.1.3.1 Test Channel = LCH

5.1.4.1.3.1.1 Test RB = RB1#0

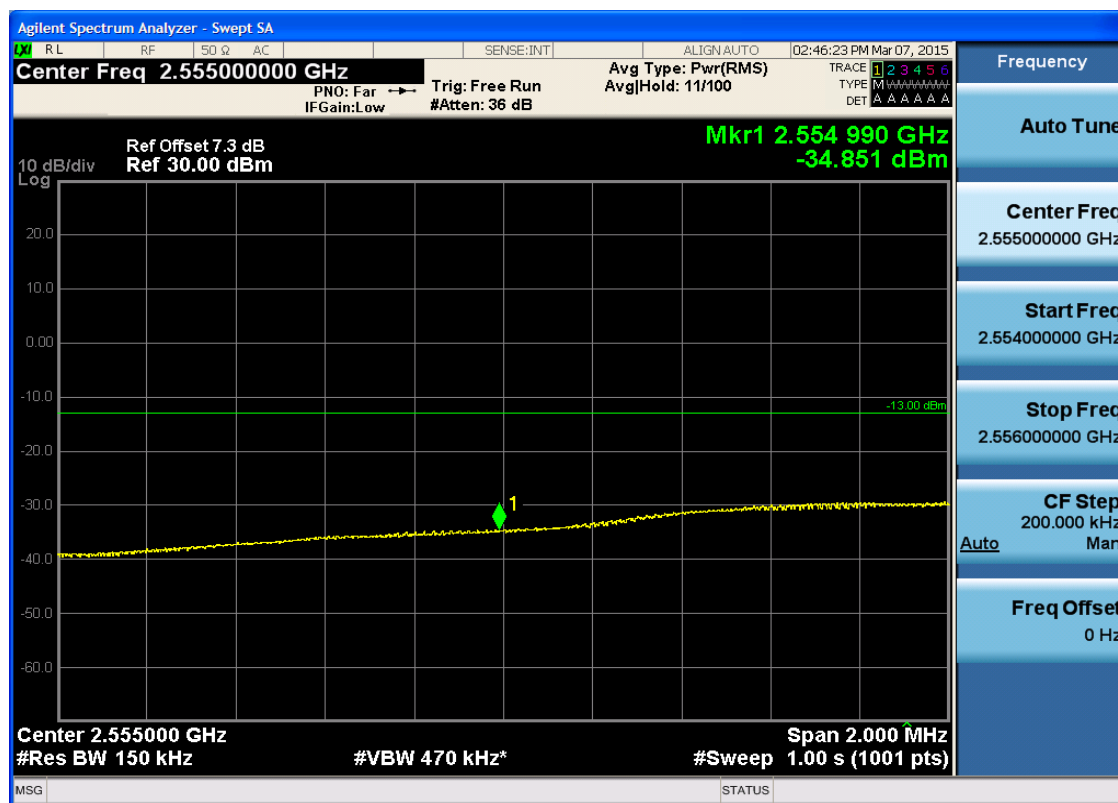




5.1.4.1.3.1.2 Test RB = RB1#74



5.1.4.1.3.1.3 Test RB = RB36#18



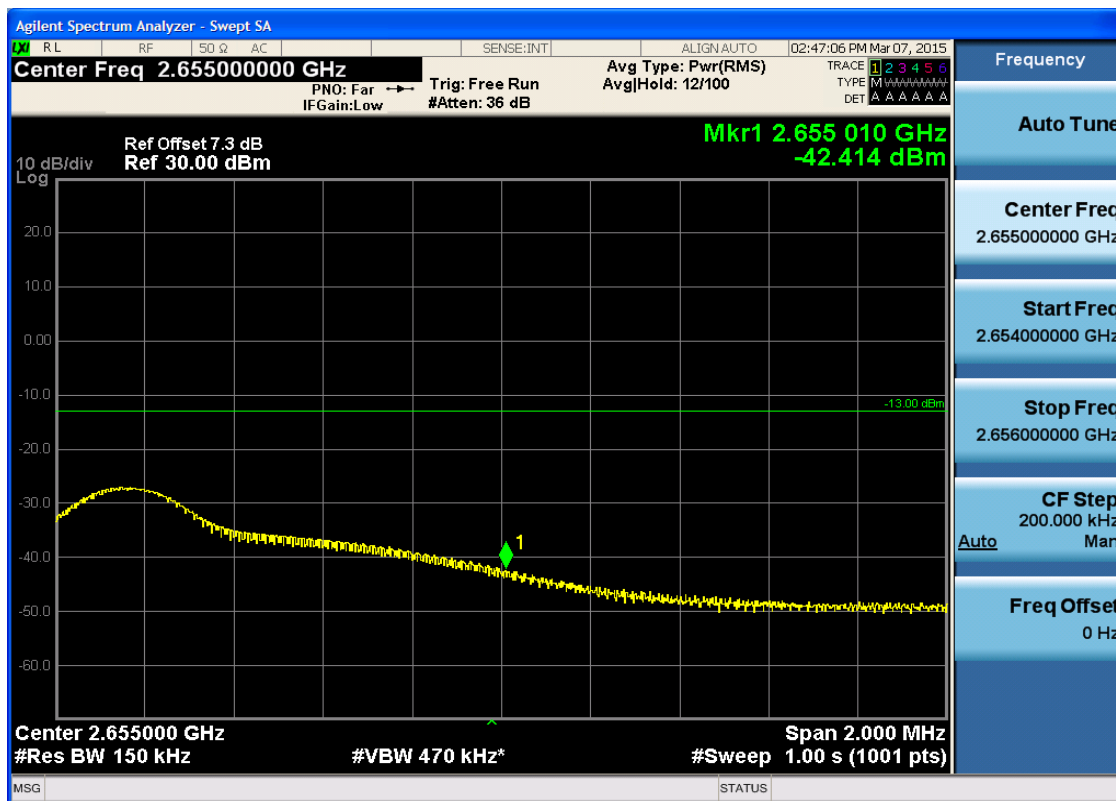


5.1.4.1.3.1.4 Test RB = RB75#0

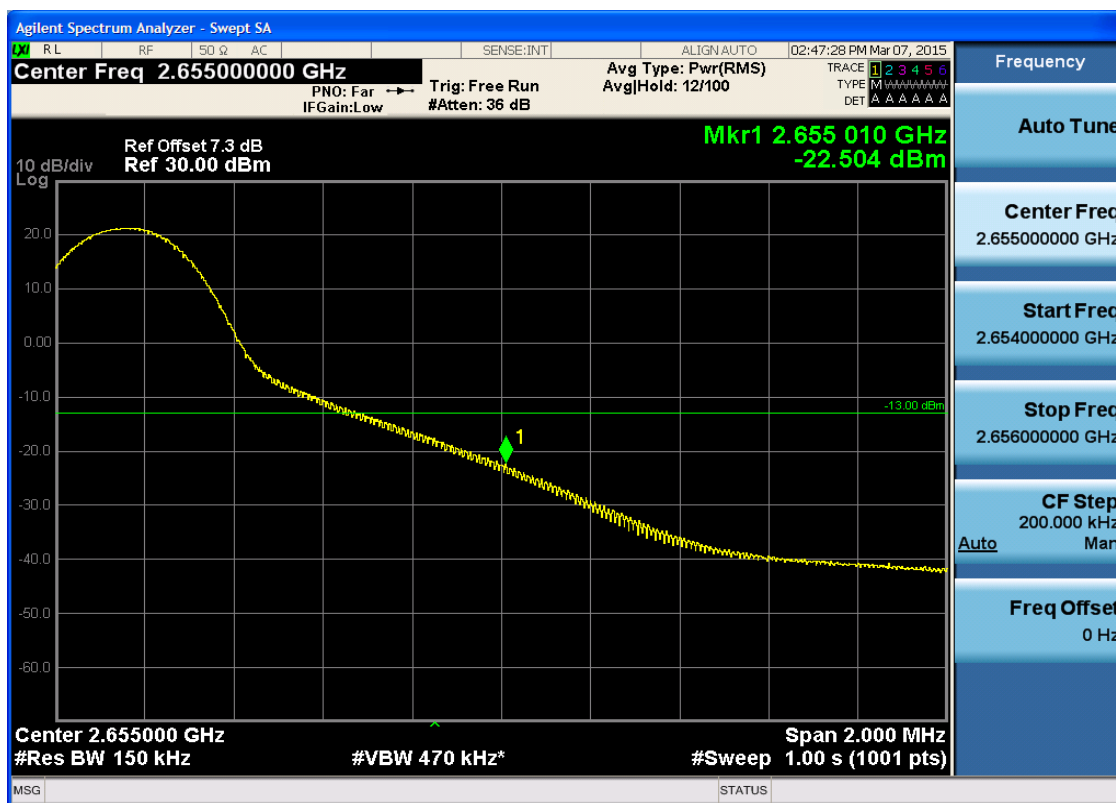


5.1.4.1.3.2 Test Channel = HCH

5.1.4.1.3.2.1 Test RB = RB1#0



5.1.4.1.3.2.2 Test RB = RB1#74



[illegible]

5.1.4.1.3.2.4 Test RB = RB75#0

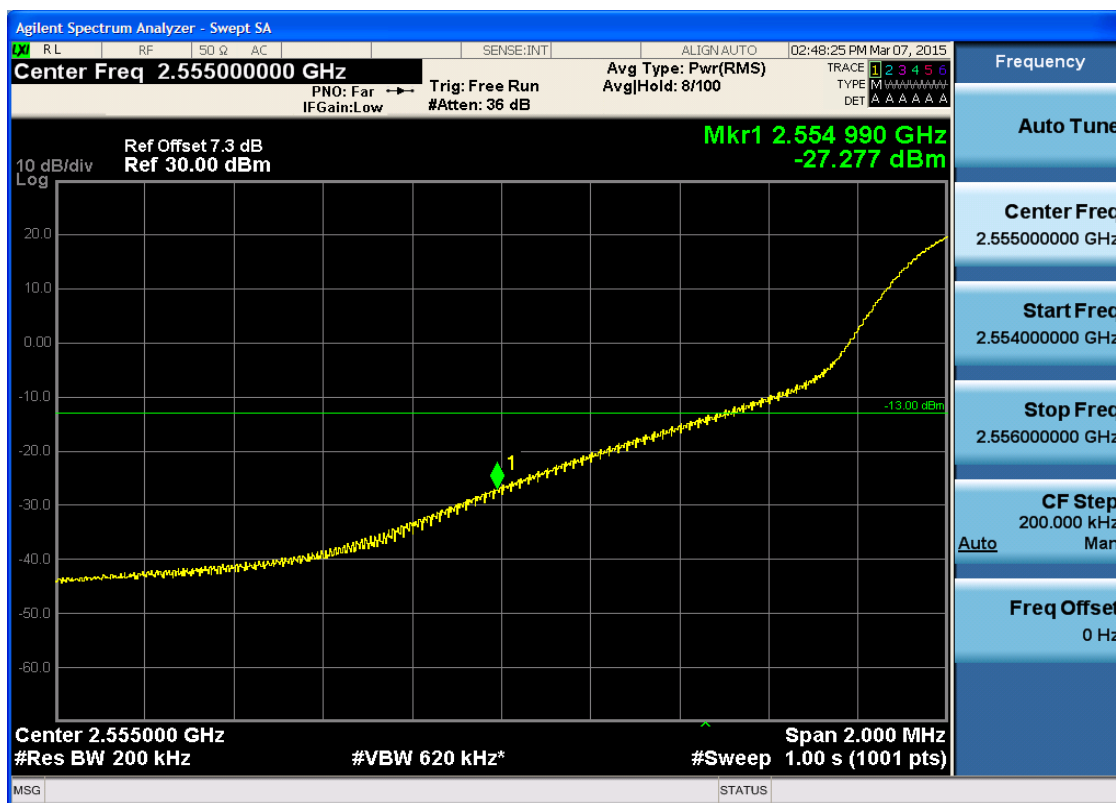




5.1.4.1.4 Test Bandwidth = 20

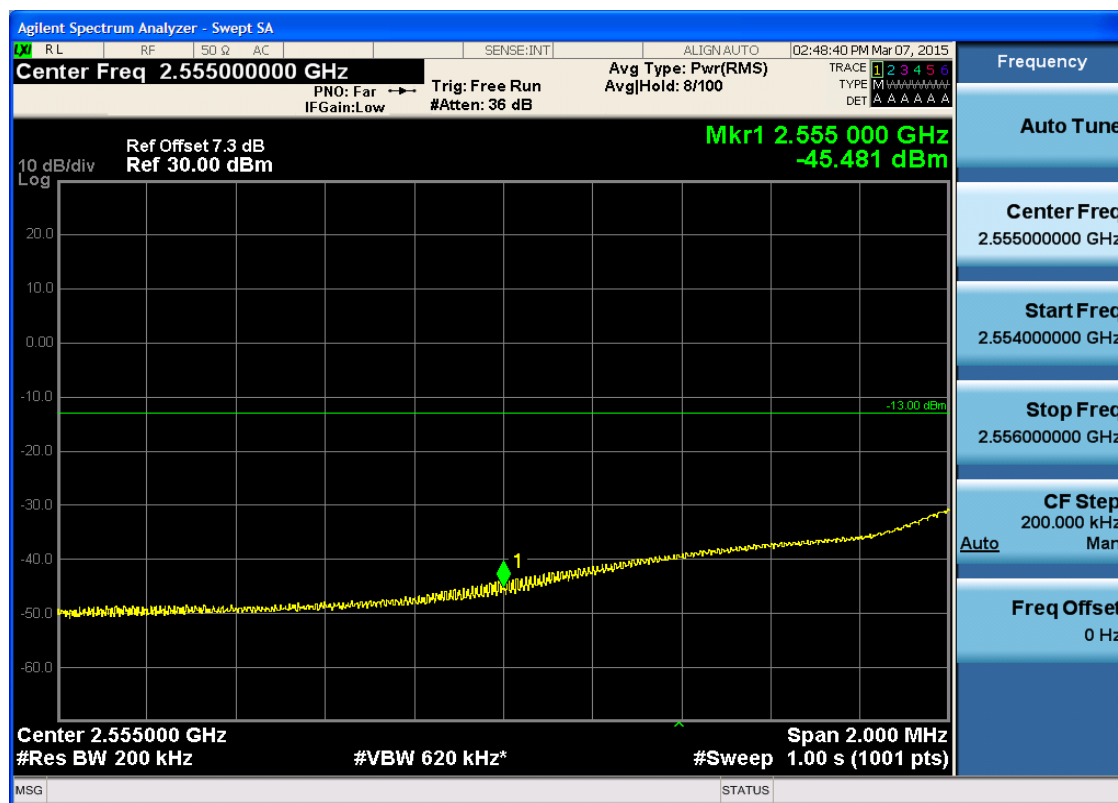
5.1.4.1.4.1 Test Channel = LCH

5.1.4.1.4.1.1 Test RB = RB1#0





5.1.4.1.4.1.2 Test RB = RB1#99





5.1.4.1.4.1.3 Test RB = RB50#25





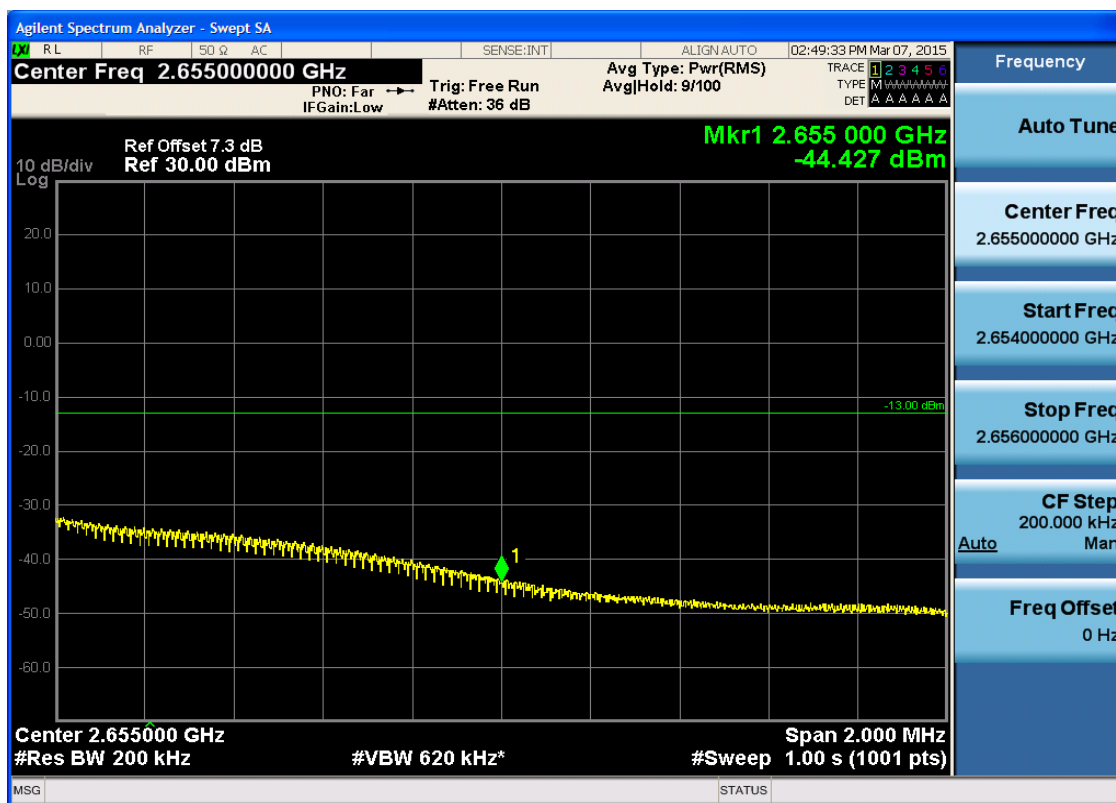
5.1.4.1.4.1.4 Test RB = RB100#0





5.1.4.1.4.2 Test Channel = HCH

5.1.4.1.4.2.1 Test RB = RB1#0



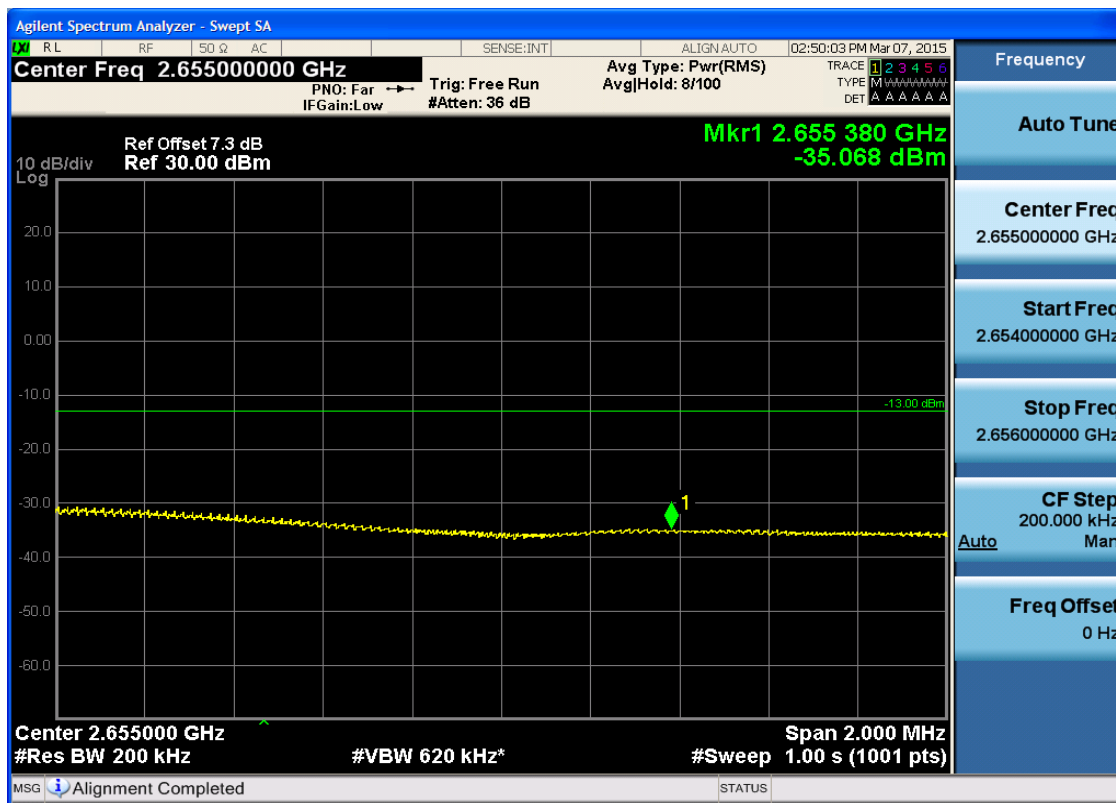


5.1.4.1.4.2.2 Test RB = RB1#99





5.1.4.1.4.2.3 Test RB = RB50#25





5.1.4.1.4.2.4 Test RB = RB100#0



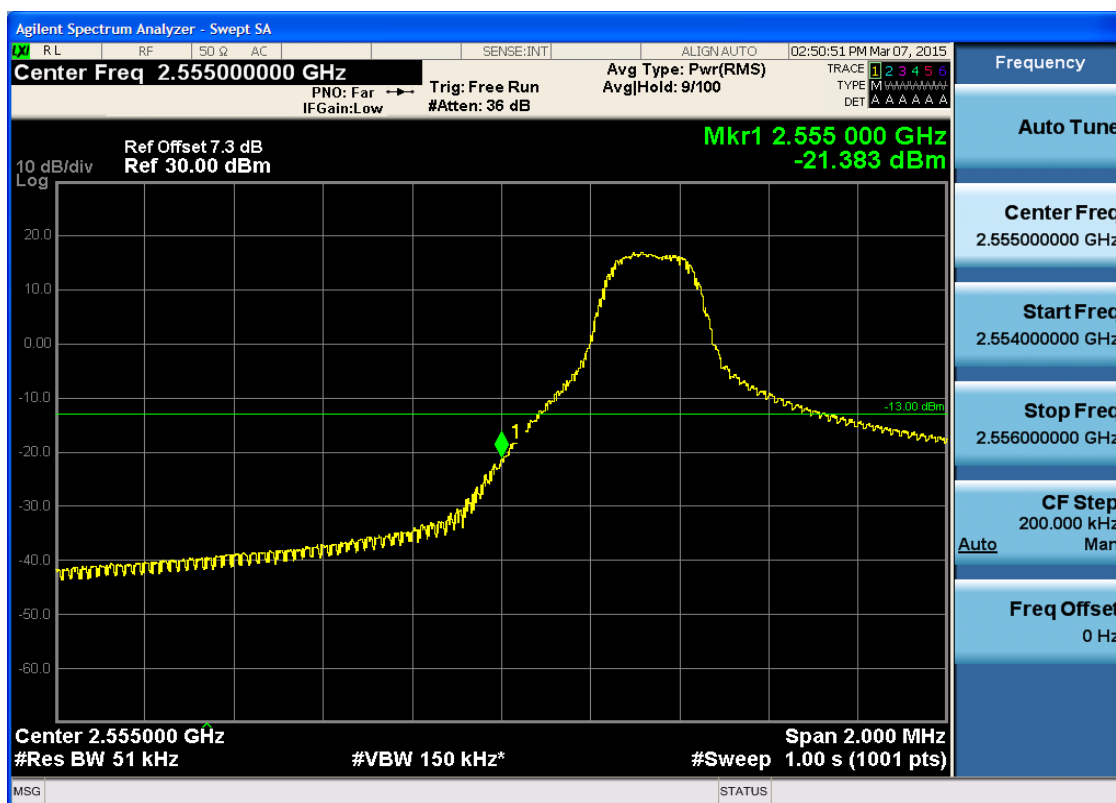


5.1.4.2 Test Mode = LTE/TM2

5.1.4.2.1 Test Bandwidth = 5

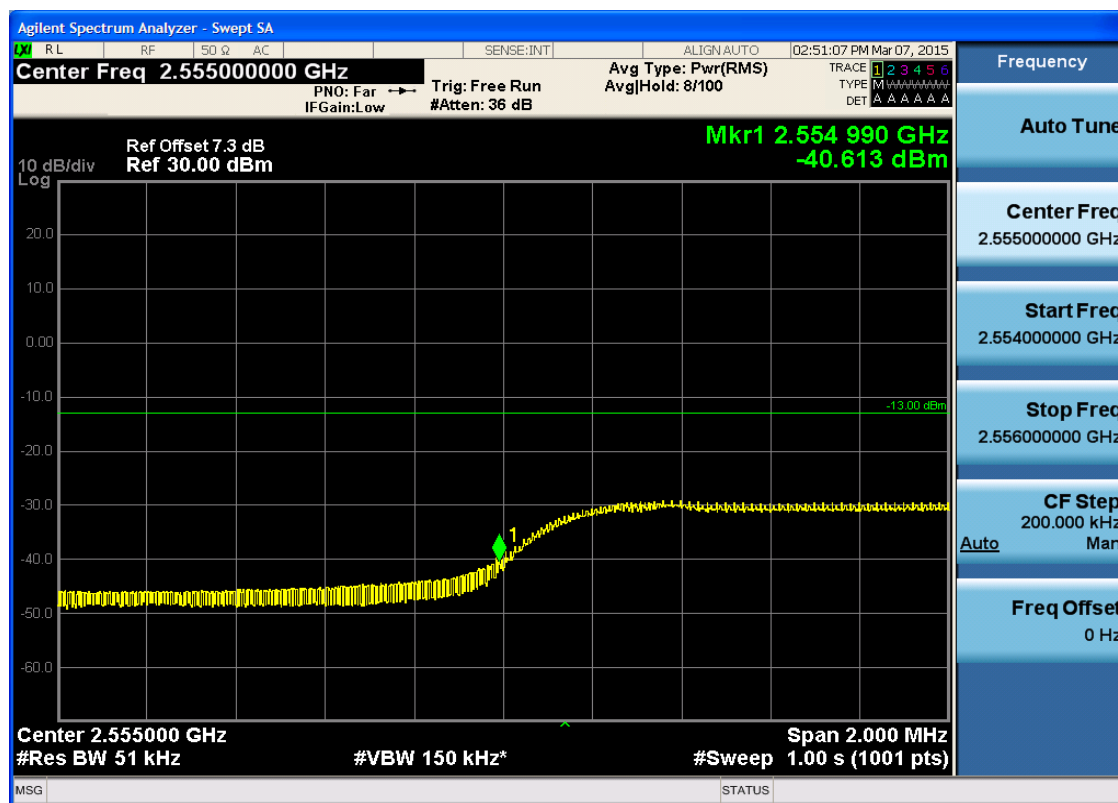
5.1.4.2.1.1 Test Channel = LCH

5.1.4.2.1.1.1 Test RB = RB1#0



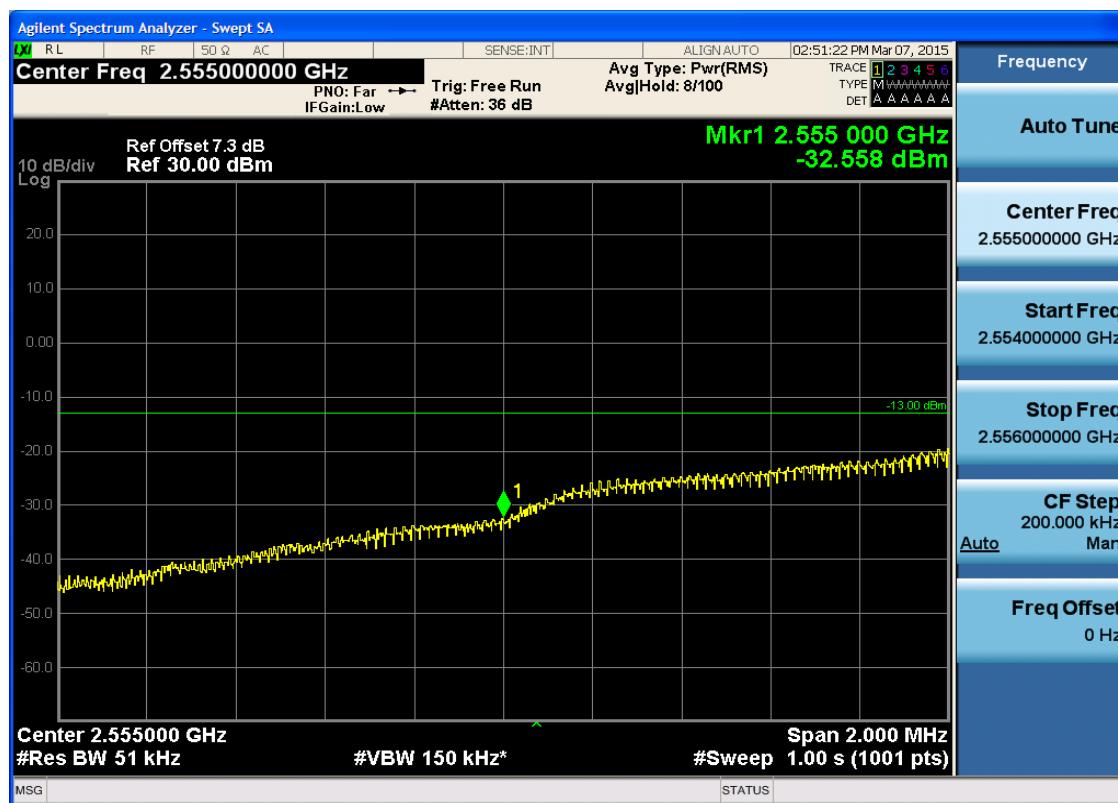


5.1.4.2.1.1.2 Test RB = RB1#24





5.1.4.2.1.1.3 Test RB = RB12#6





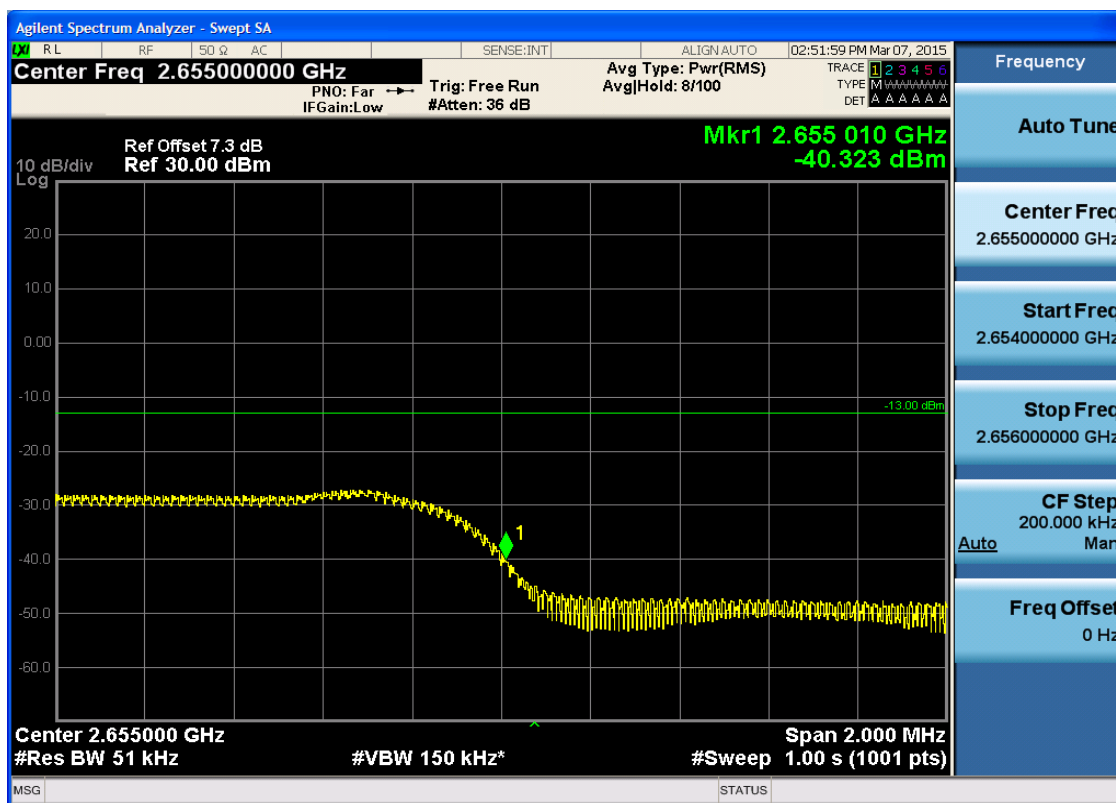
5.1.4.2.1.1.4 Test RB = RB25#0





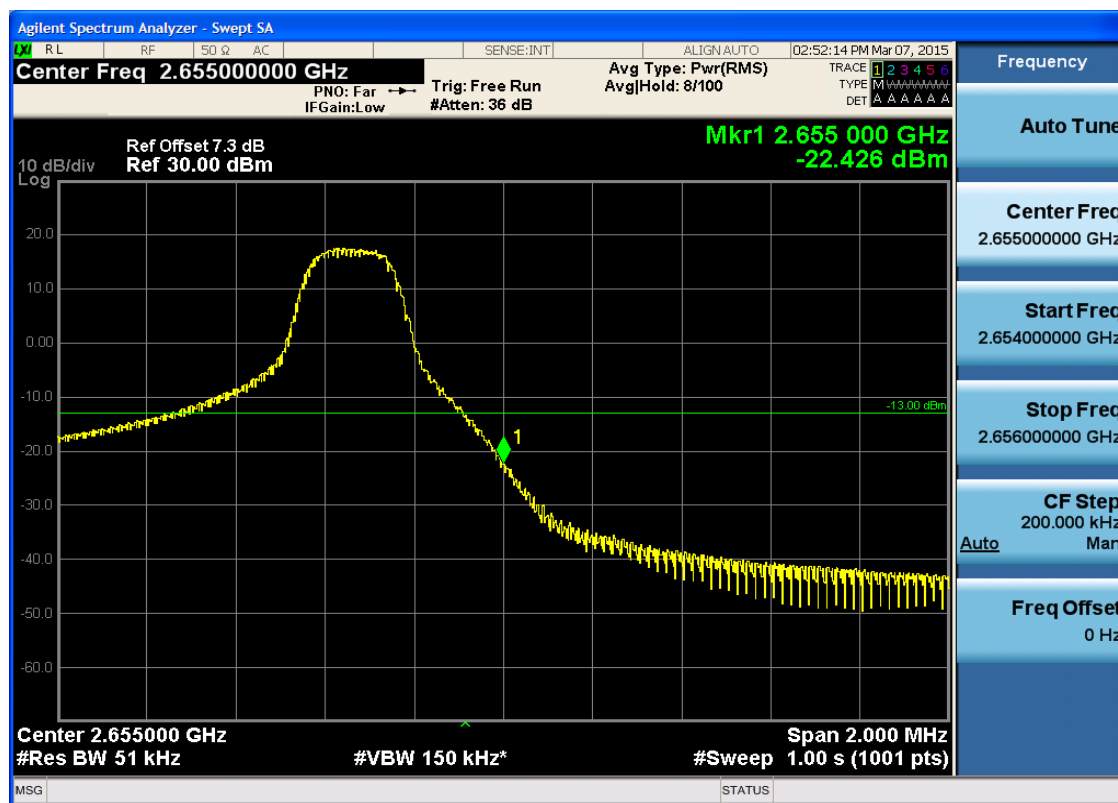
5.1.4.2.1.2 Test Channel = HCH

5.1.4.2.1.2.1 Test RB = RB1#0



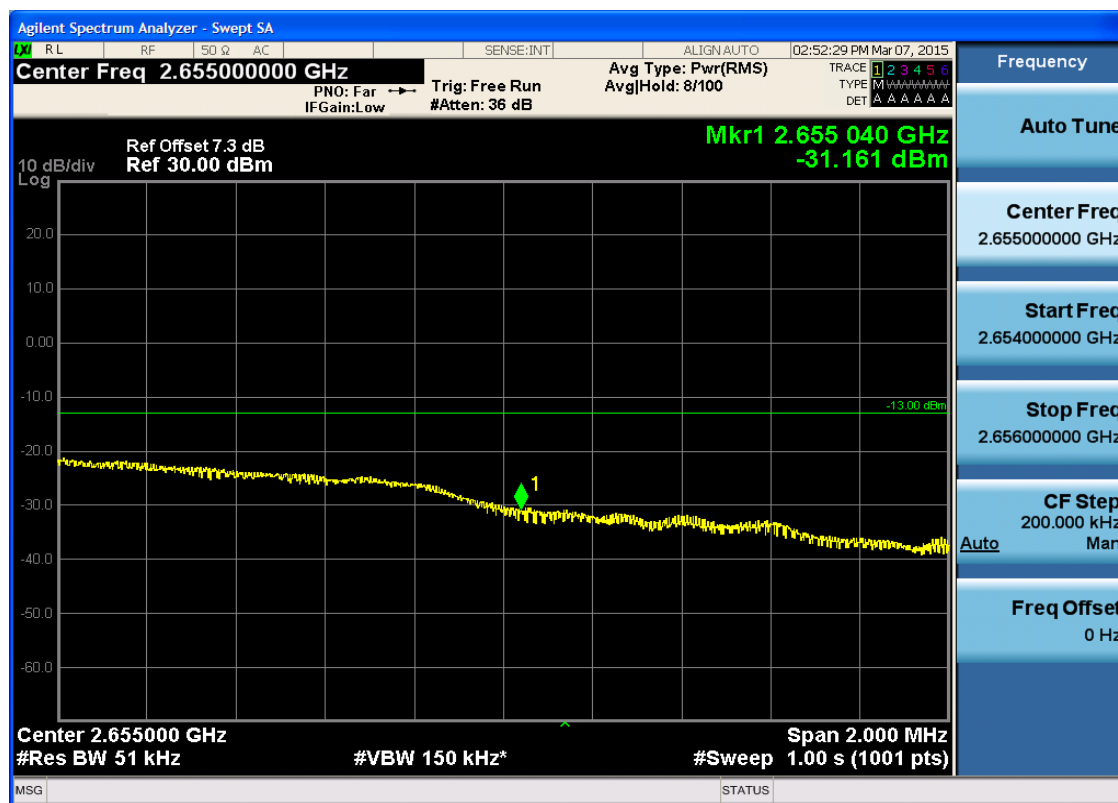


5.1.4.2.1.2.2 Test RB = RB1#24





5.1.4.2.1.2.3 Test RB = RB12#6





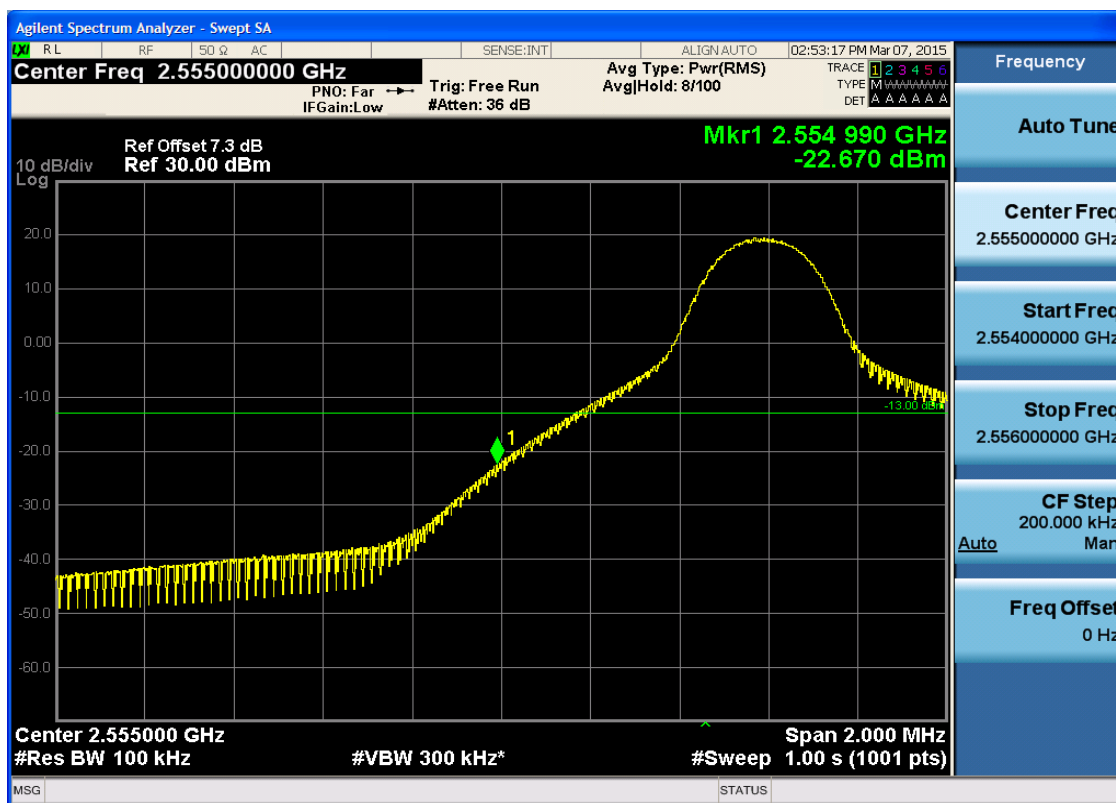
5.1.4.2.1.2.4 Test RB = RB25#0



5.1.4.2.2 Test Bandwidth = 10

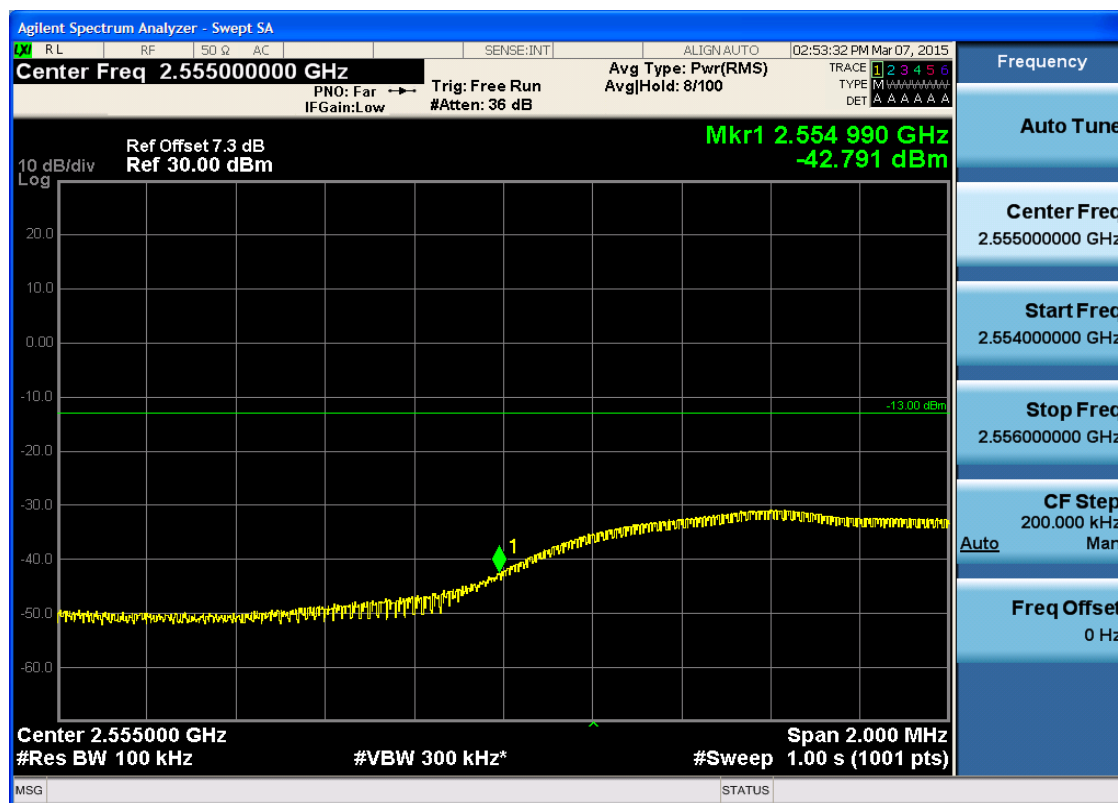
5.1.4.2.2.1 Test Channel = LCH

5.1.4.2.2.1.1 Test RB = RB1#0



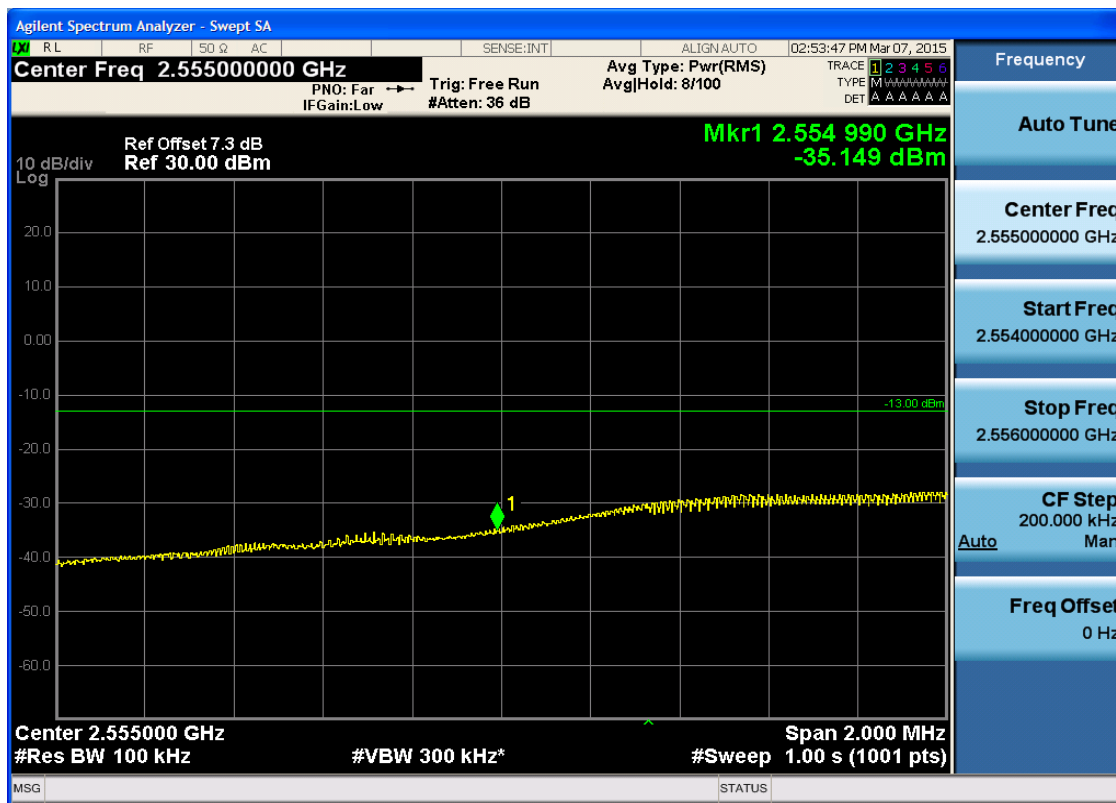


5.1.4.2.2.1.2 Test RB = RB1#49





5.1.4.2.2.1.3 Test RB = RB25#13



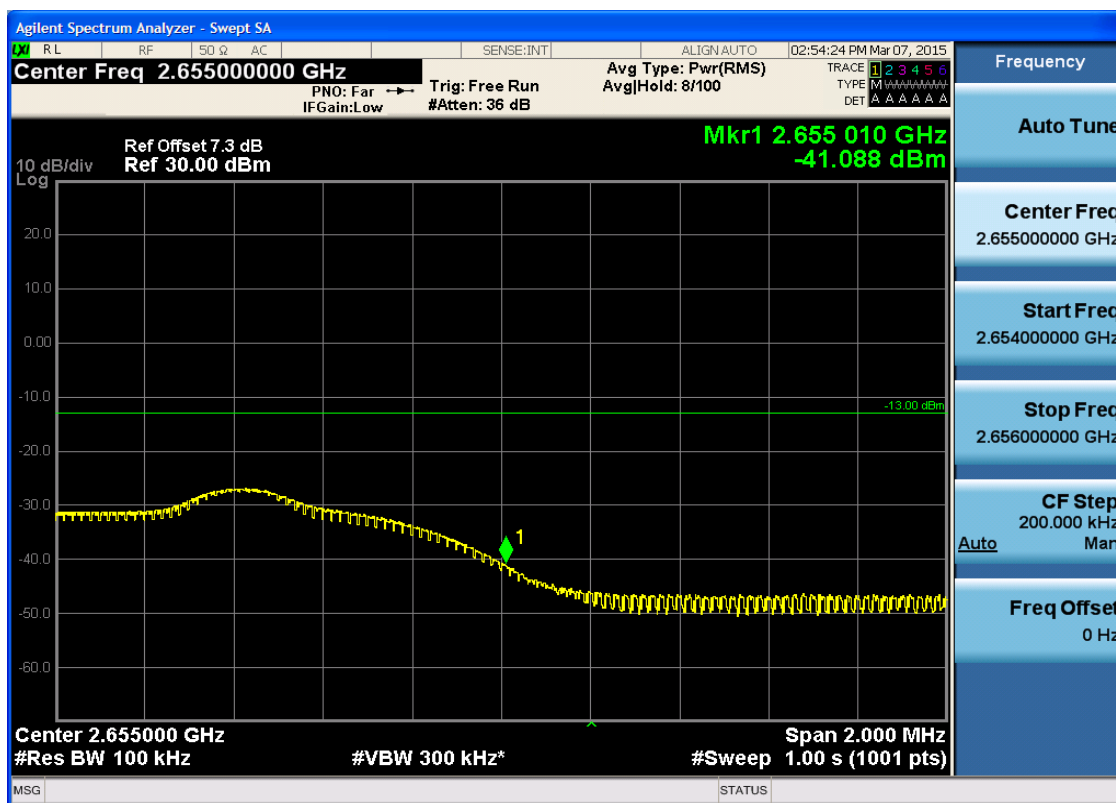
5.1.4.2.2.1.4 Test RB = RB50#0





5.1.4.2.2.2 Test Channel = HCH

5.1.4.2.2.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

☒ R L RF 50 Ω AC SENSE:INT ALIGN:AUTO 02:54:40 PM Mar 07, 2015

Center Freq 2.65500000 GHz Avg Type: Pwr(RMS) TRACE 1 2 3 4 5 6
 PNO: Far → Trig: Free Run Avg|Hold: 8/100 TYPE M W W W W W W W W W
 IF Gain: Low #Atten: 36 dB DET A A A A A A

Ref Offset 7.3 dB **Mkr1 2.655 000 GHz**
 Ref 30.00 dBm **-23.844 dBm**

10 dB/div
Log

-13.00 dBm

1

Center 2.655000 GHz Span 2.000 MHz
 #Res BW 100 kHz #VBW 300 kHz* #Sweep 1.00 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.65500000 GHz

Start Freq
2.654000000 GHz

Stop Freq
2.656000000 GHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



5.1.4.2.2.3 Test RB = RB25#13



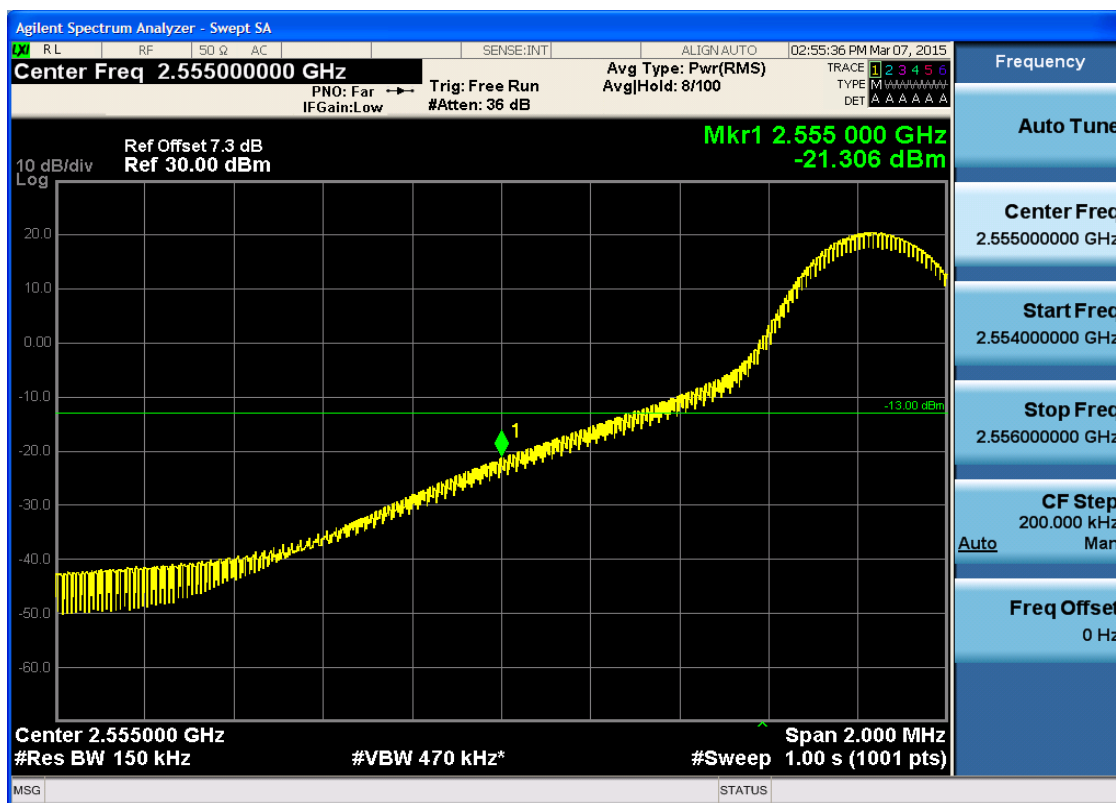
5.1.4.2.2.4 Test RB = RB50#0



5.1.4.2.3 Test Bandwidth = 15

5.1.4.2.3.1 Test Channel = LCH

5.1.4.2.3.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

XY R L	RF	50 Ω	AC		SENSE:INT	ALIGN:AUTO	02:55:51 PM Mar 07, 2015
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Center Freq 2.555000000 GHz

PNO: Far → Trig: Free Run
IFGain: Low #Atten: 36 dB

Avg Type: Pwr(RMS)
AveHld: 8/100

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

Ref Offset 7.3 dB
Ref 30.00 dBm

Mkr1 2.554 990 GHz
-44.628 dBm

10 dB/div
Log

-13.00 dBm

Center 2.555000 GHz
#Res BW 150 kHz
#VBW 470 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.555000000 GHz

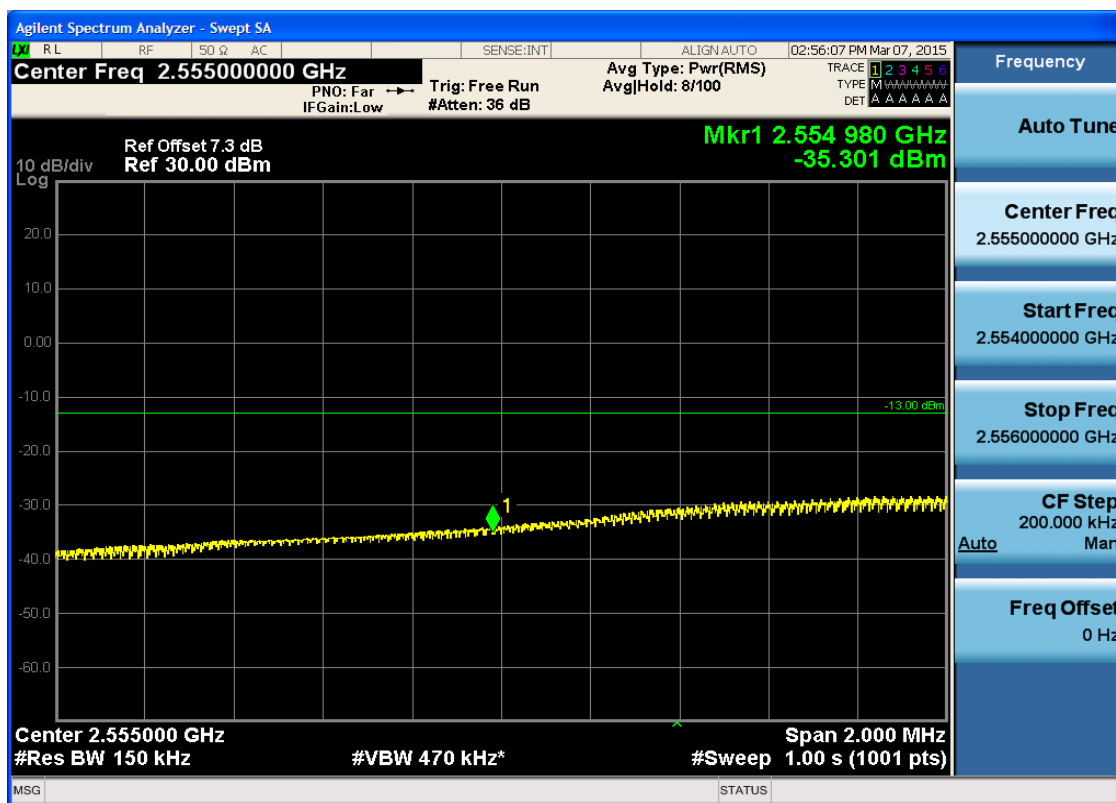
Start Freq
2.554000000 GHz

Stop Freq
2.556000000 GHz

CF Step
200.000 kHz
Auto Man

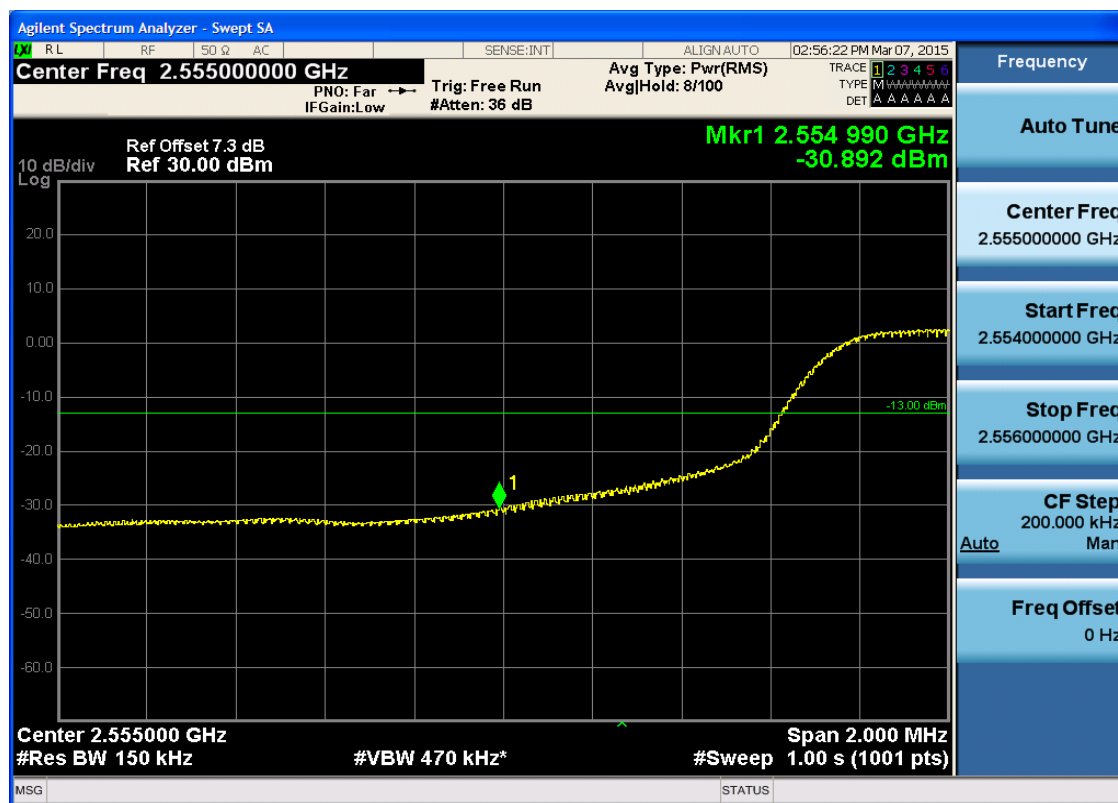
Freq Offset
0 Hz

5.1.4.2.3.1.3 Test RB = RB36#18





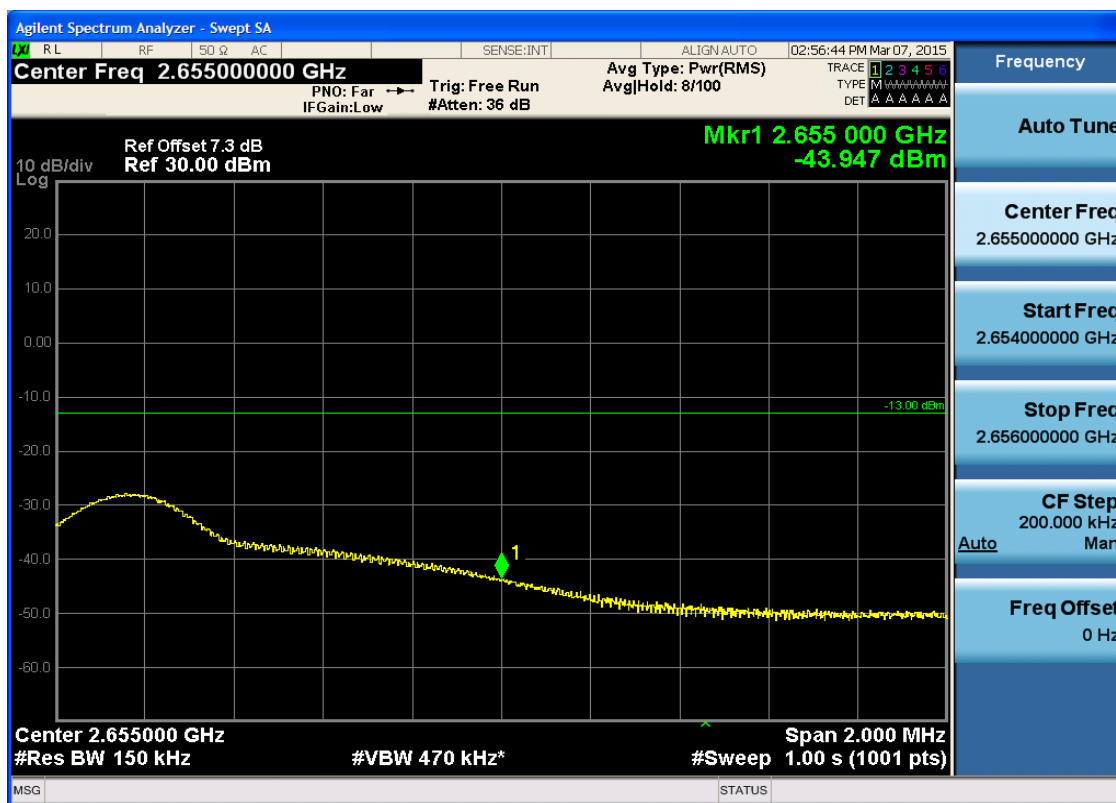
5.1.4.2.3.1.4 Test RB = RB75#0





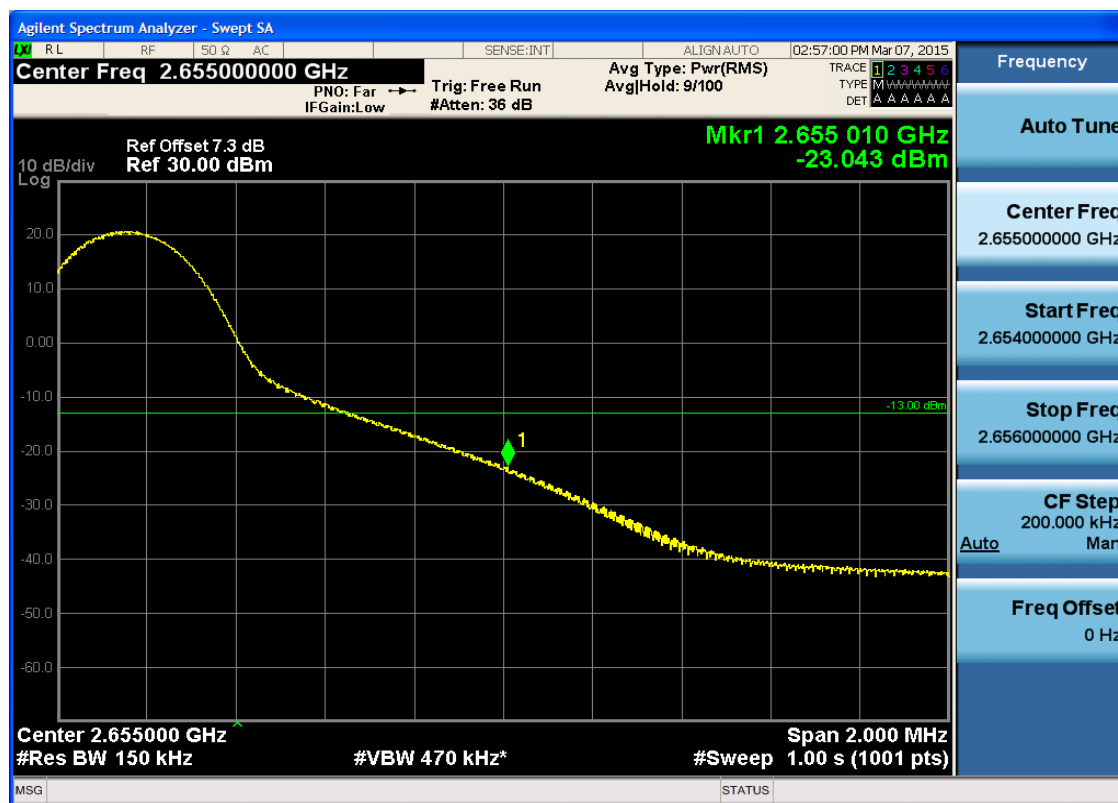
5.1.4.2.3.2 Test Channel = HCH

5.1.4.2.3.2.1 Test RB = RB1#0





5.1.4.2.3.2.2 Test RB = RB1#74



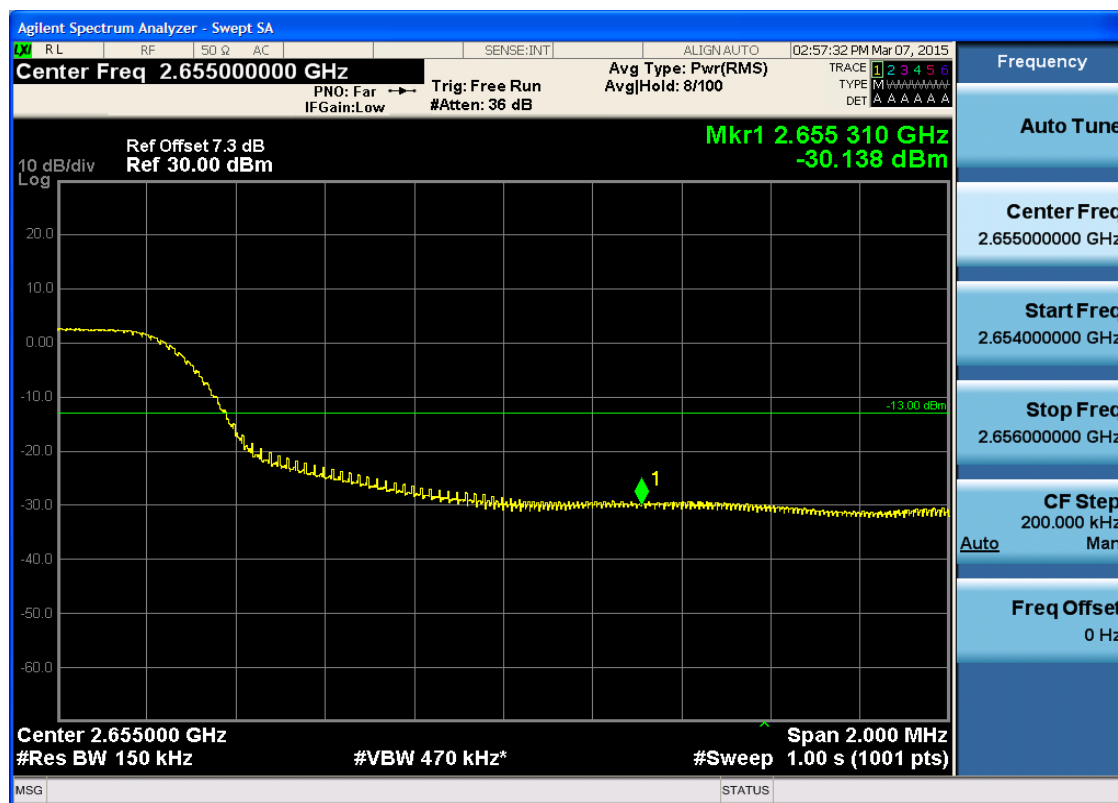


5.1.4.2.3.2.3 Test RB = RB36#18





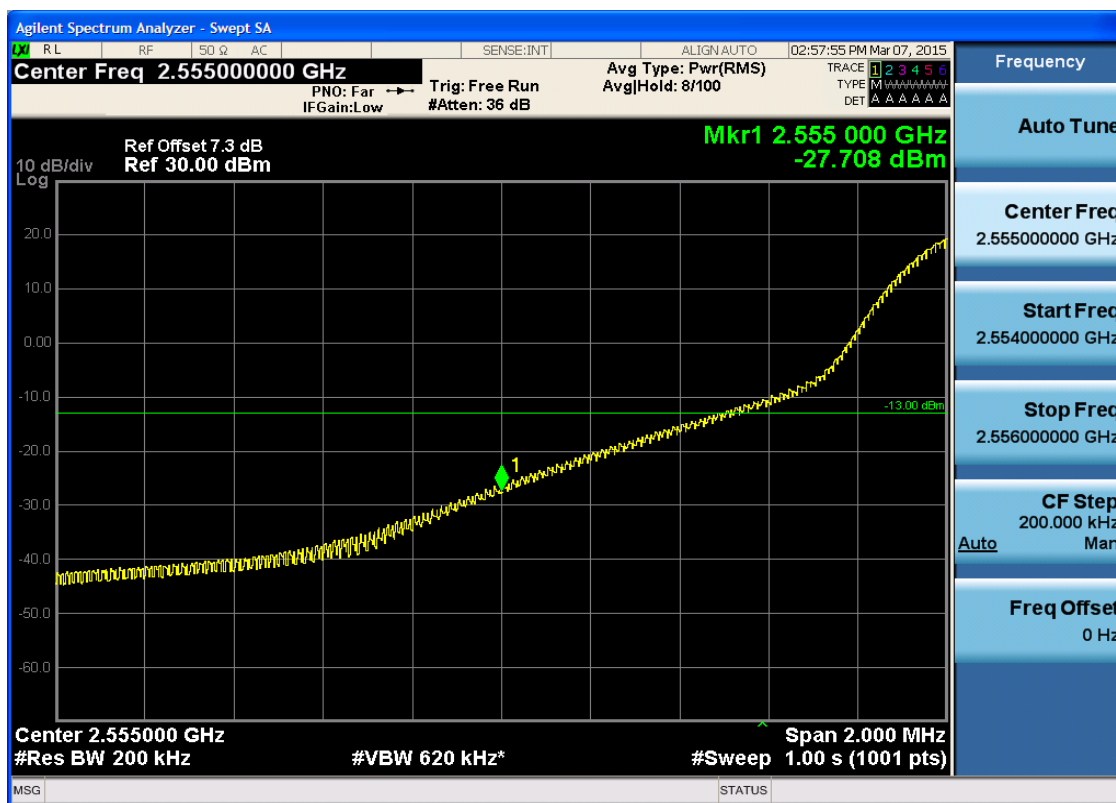
5.1.4.2.3.2.4 Test RB = RB75#0



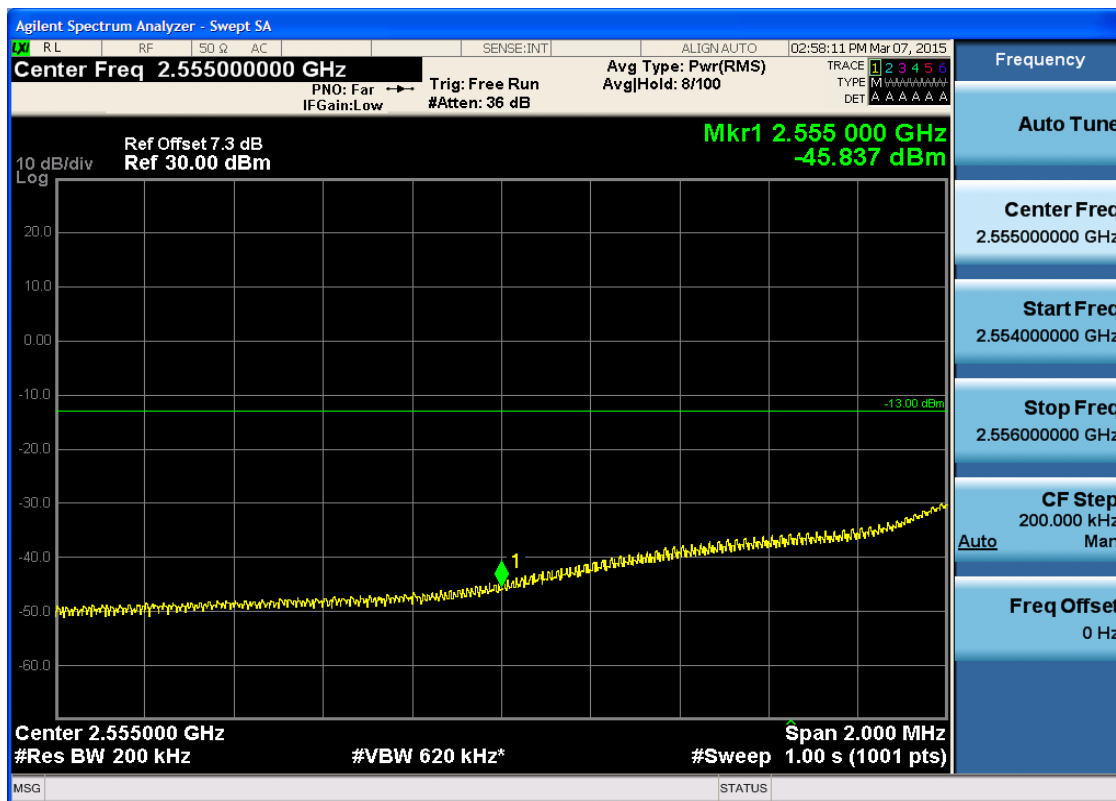
5.1.4.2.4 Test Bandwidth = 20

5.1.4.2.4.1 Test Channel = LCH

5.1.4.2.4.1.1 Test RB = RB1#0



5.1.4.2.4.1.2 Test RB = RB1#99



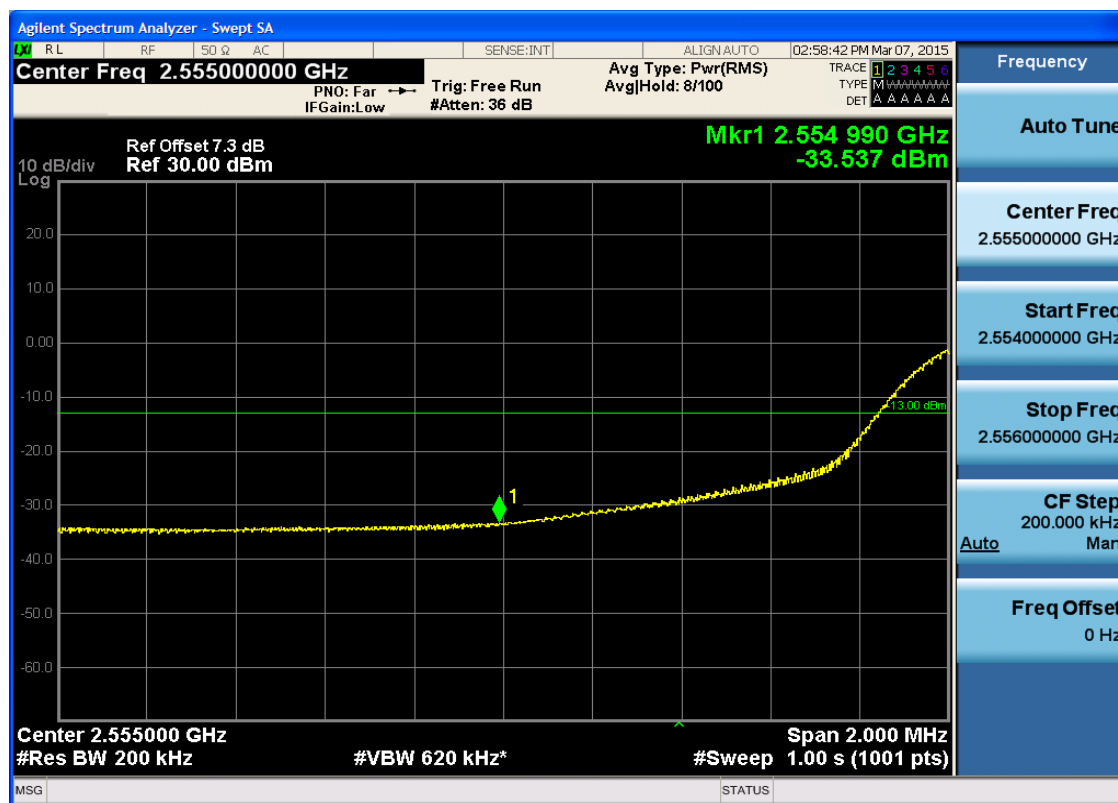


5.1.4.2.4.1.3 Test RB = RB50#25





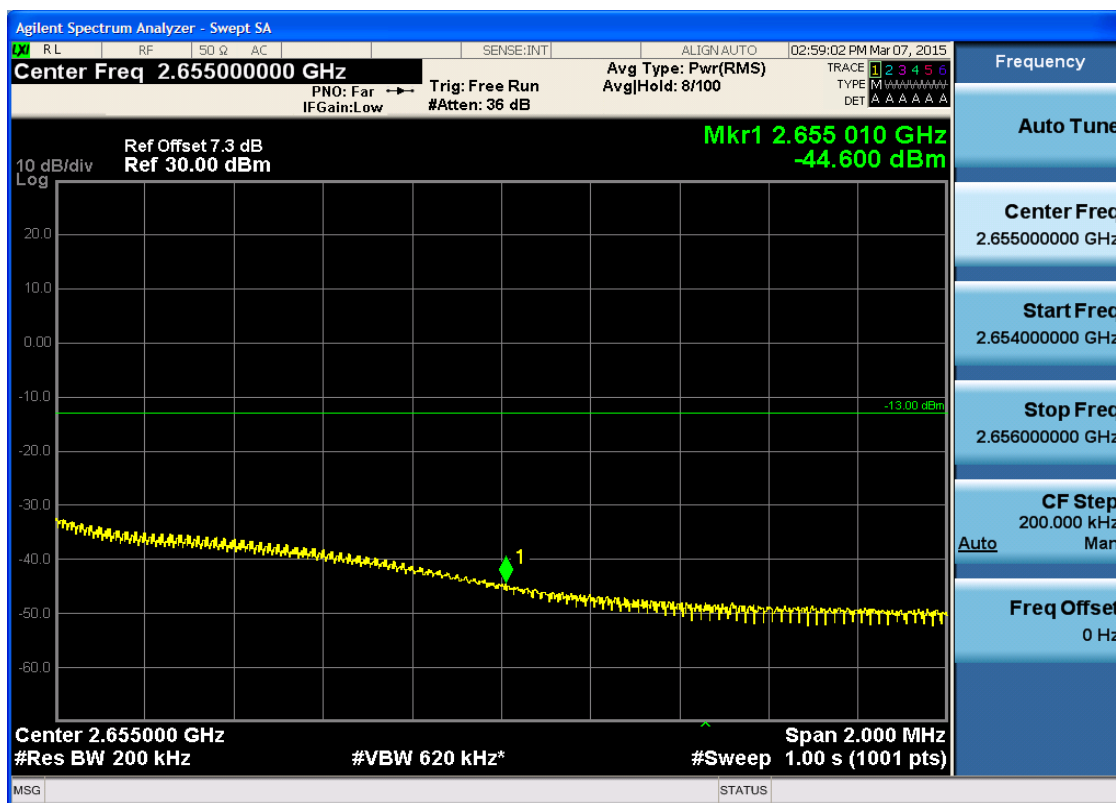
5.1.4.2.4.1.4 Test RB = RB100#0





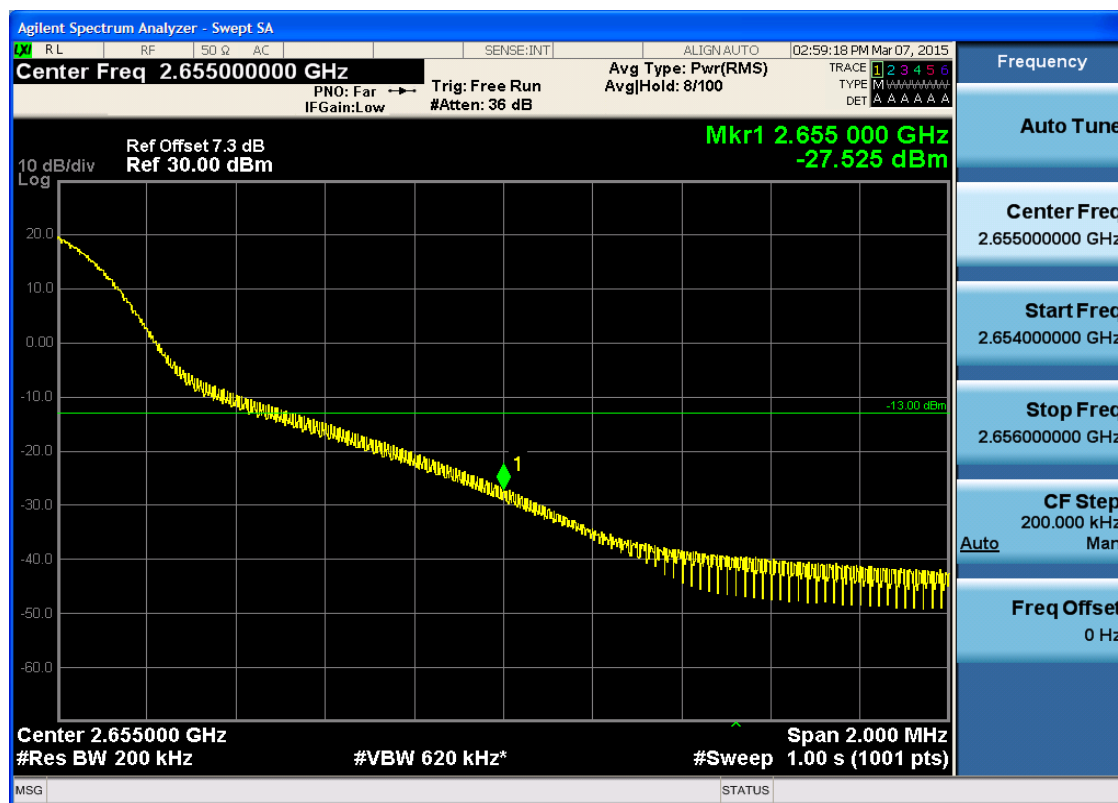
5.1.4.2.4.2 Test Channel = HCH

5.1.4.2.4.2.1 Test RB = RB1#0





5.1.4.2.4.2.2 Test RB = RB1#99

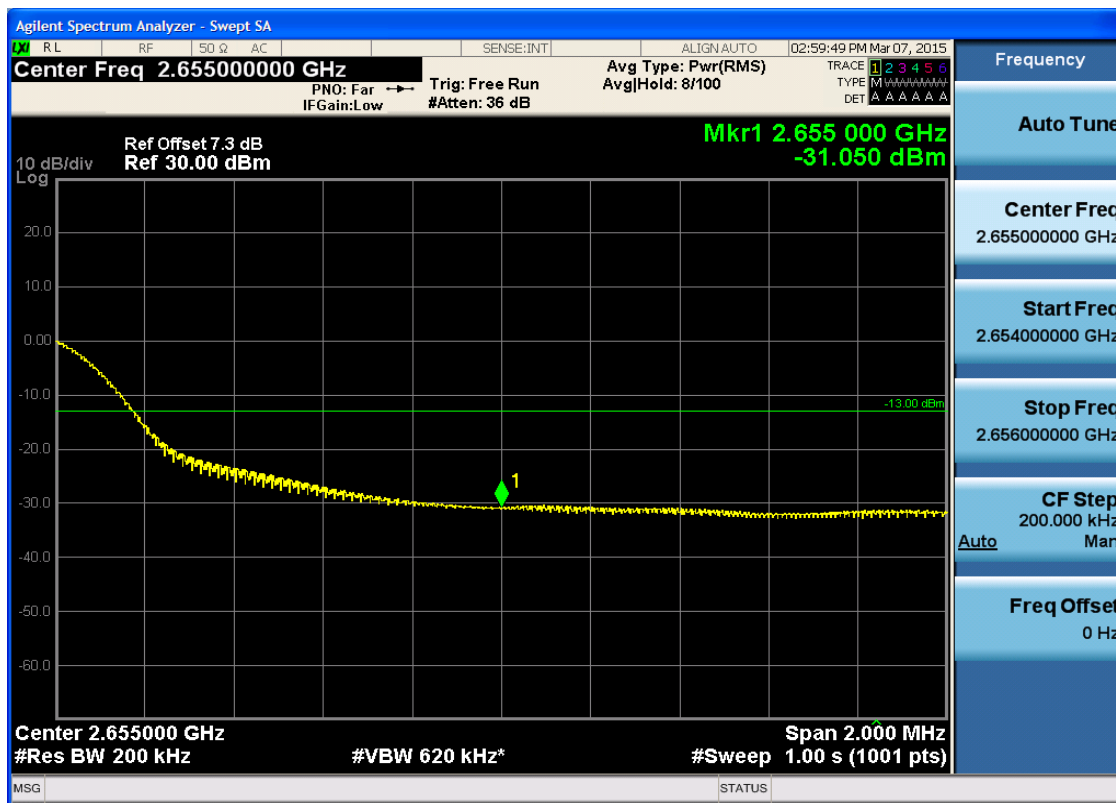




5.1.4.2.4.2.3 Test RB = RB50#25



5.1.4.2.4.2.4 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

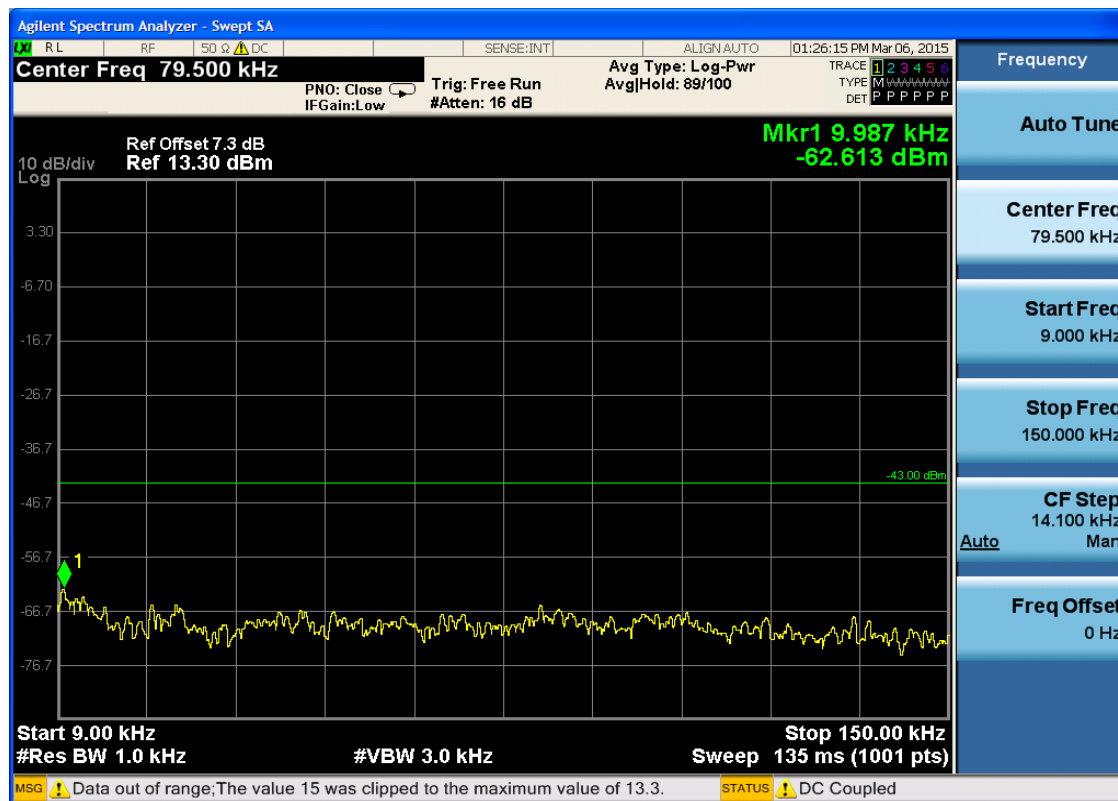
6.1.1 Test Band = BAND4

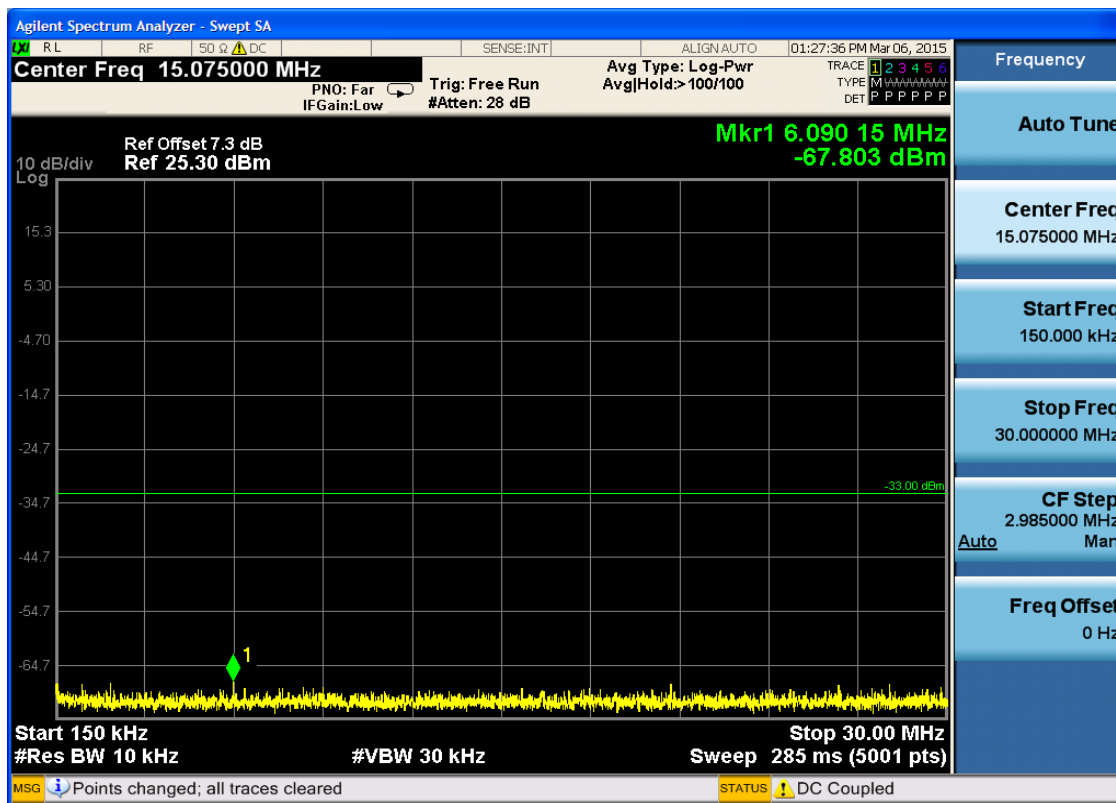
6.1.1.1 Test Mode = LTE/TM1

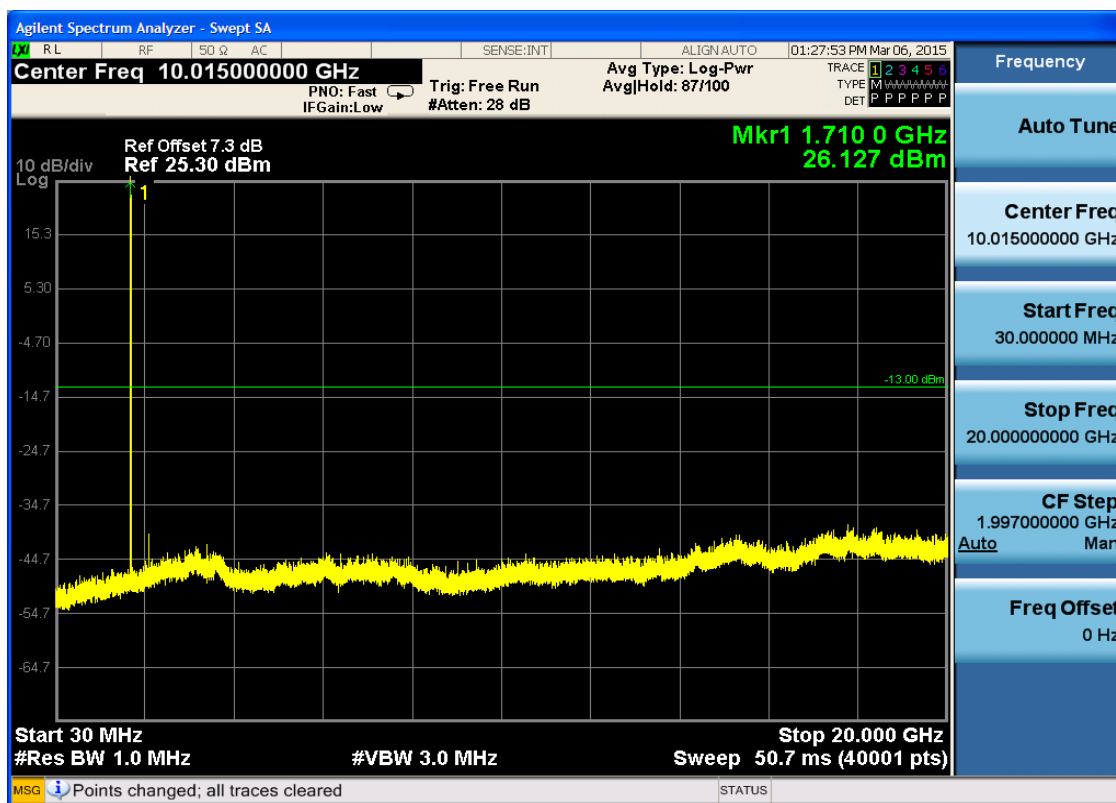
6.1.1.1.1 Test Bandwidth = 1.4

6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1 Test RB = RB1#0

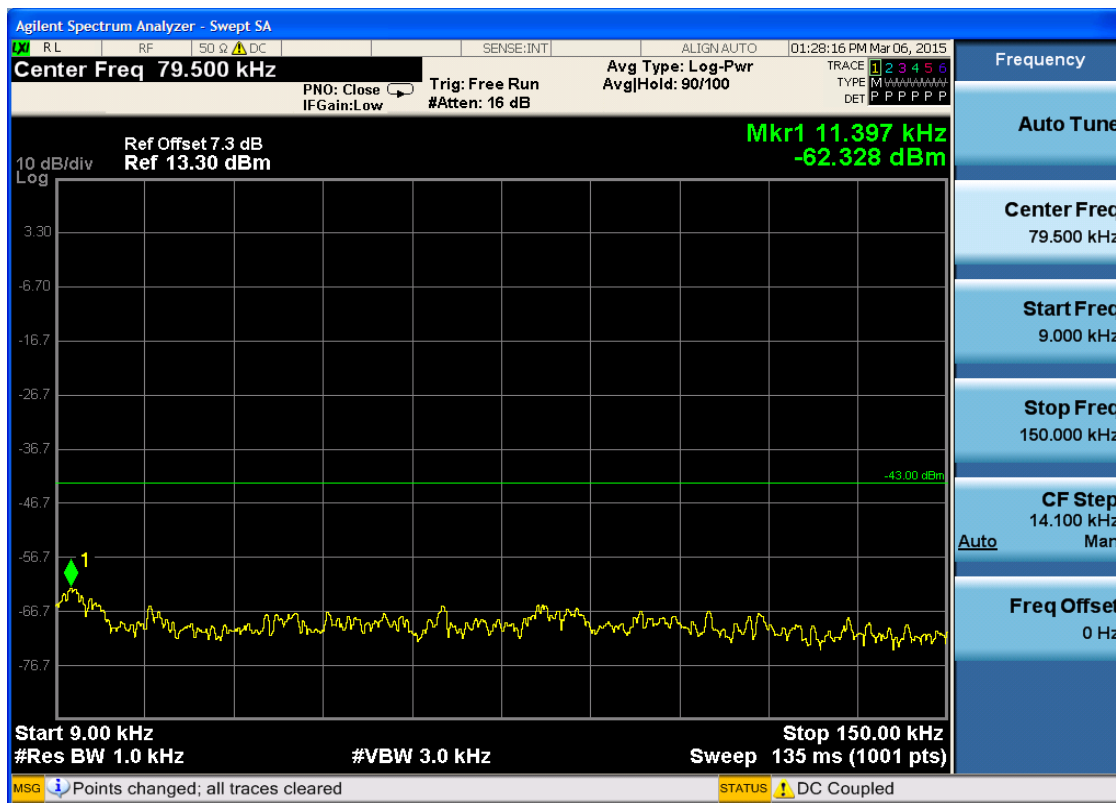


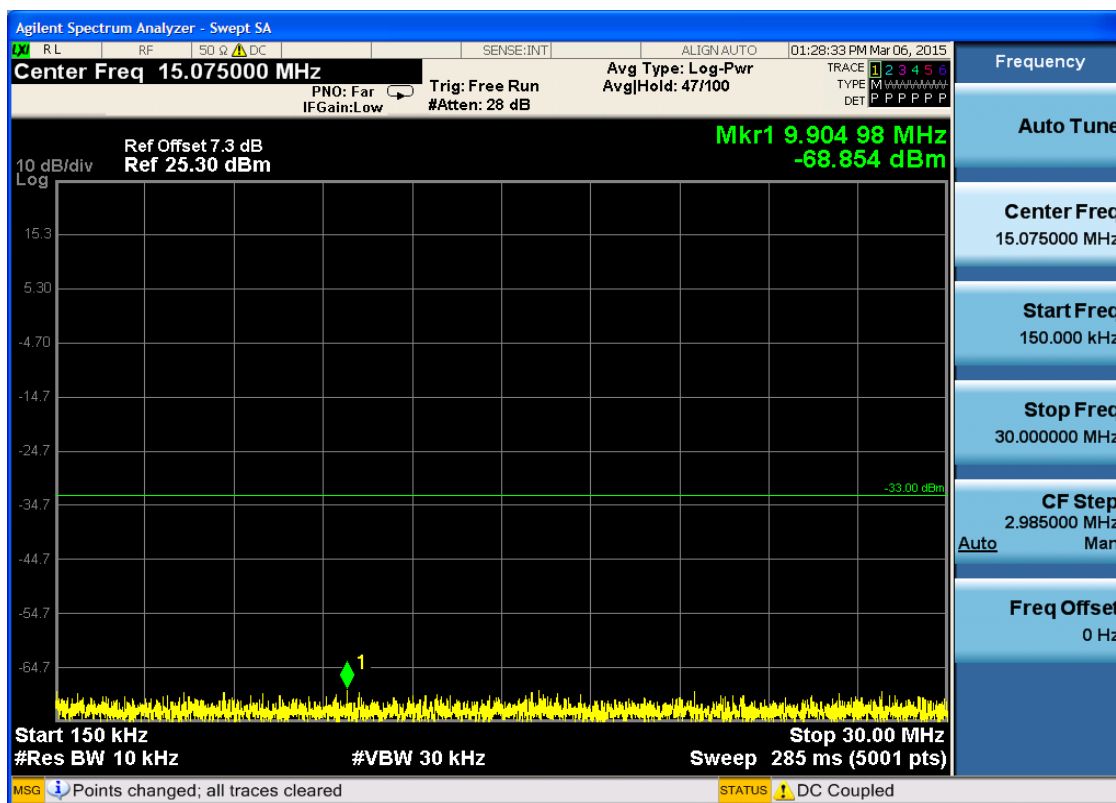


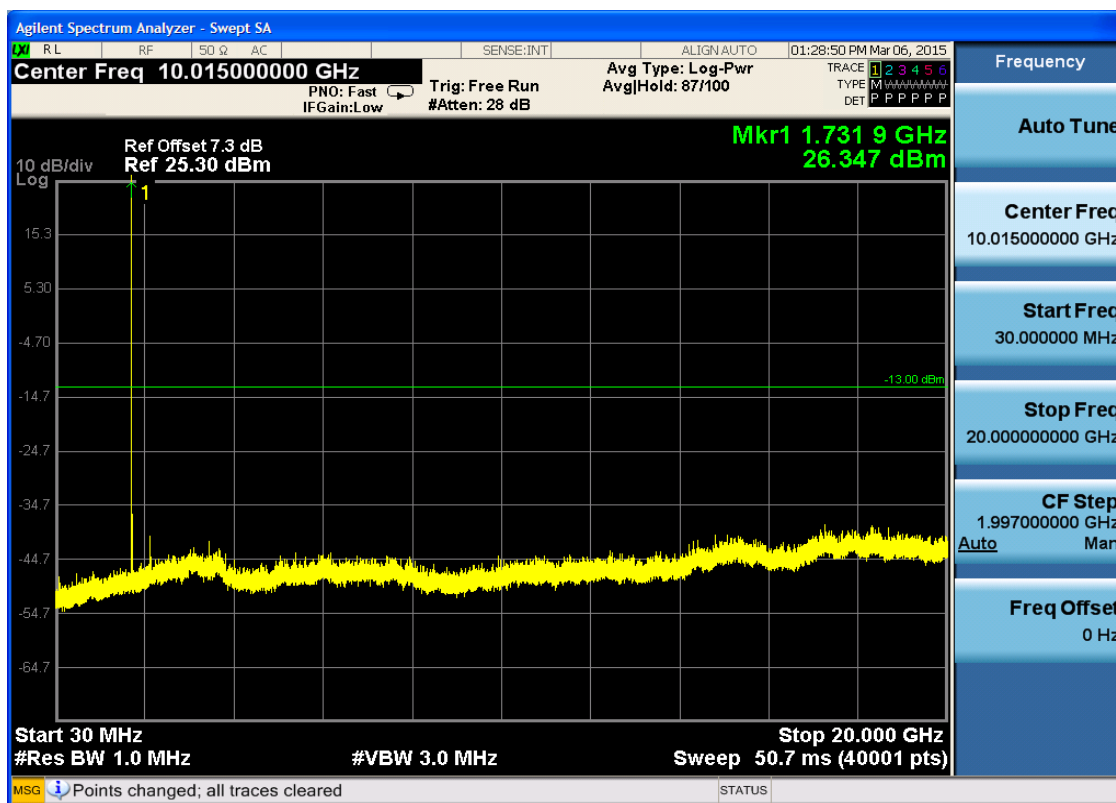


6.1.1.1.1.2 Test Channel = MCH

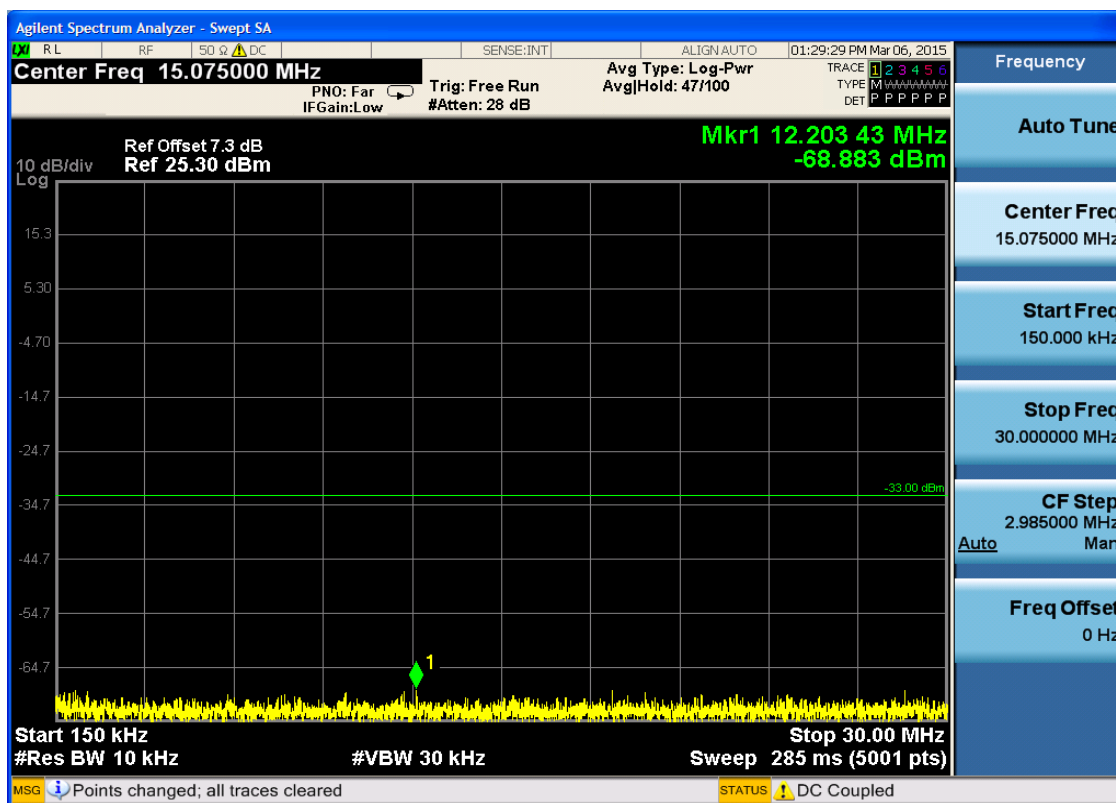
6.1.1.1.1.2.1 Test RB = RB1#0

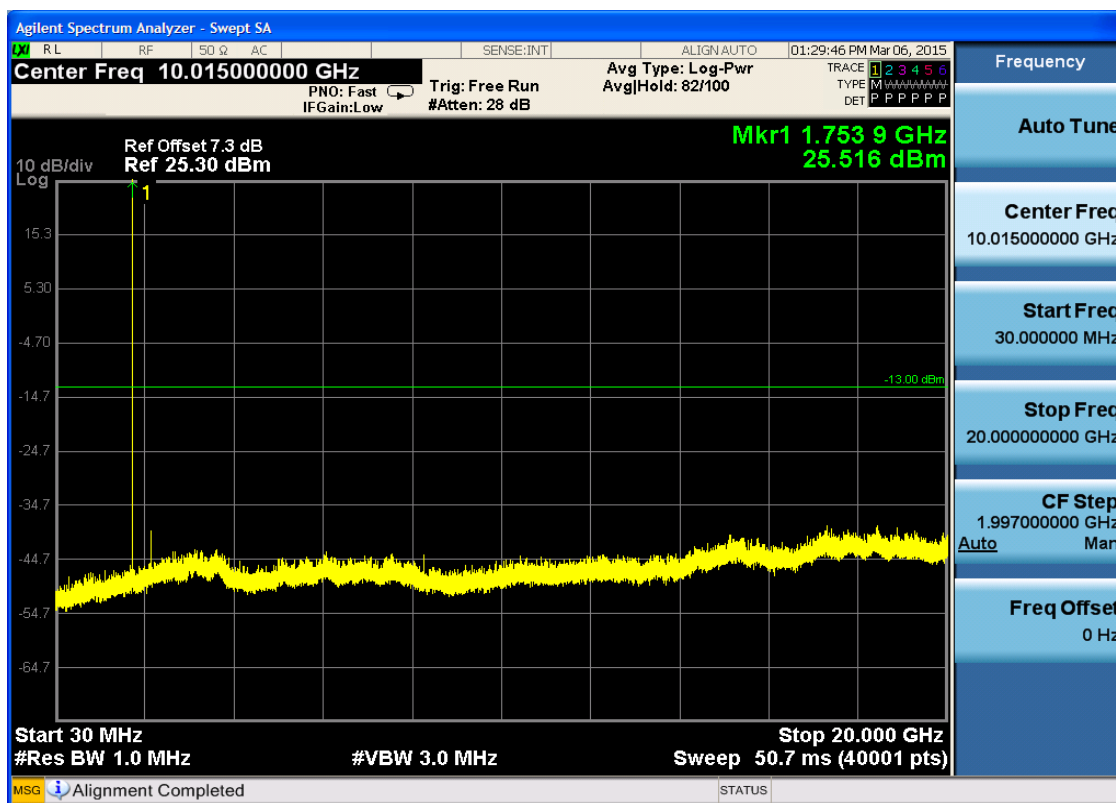








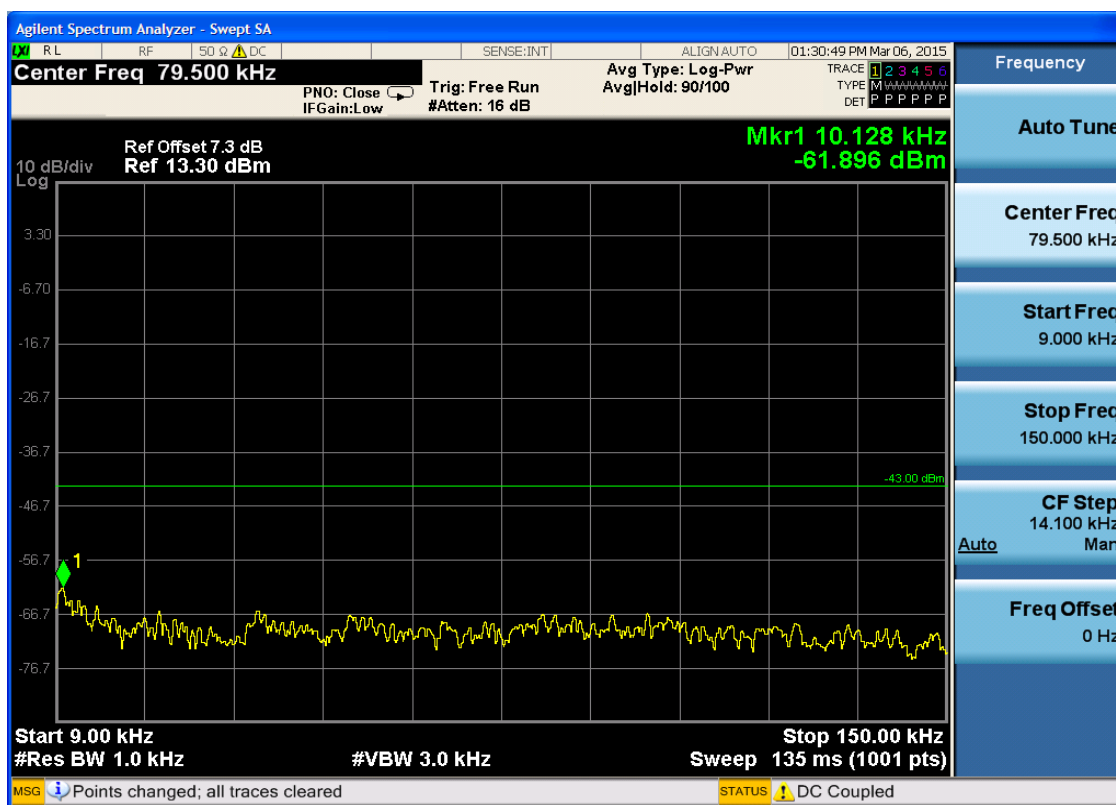


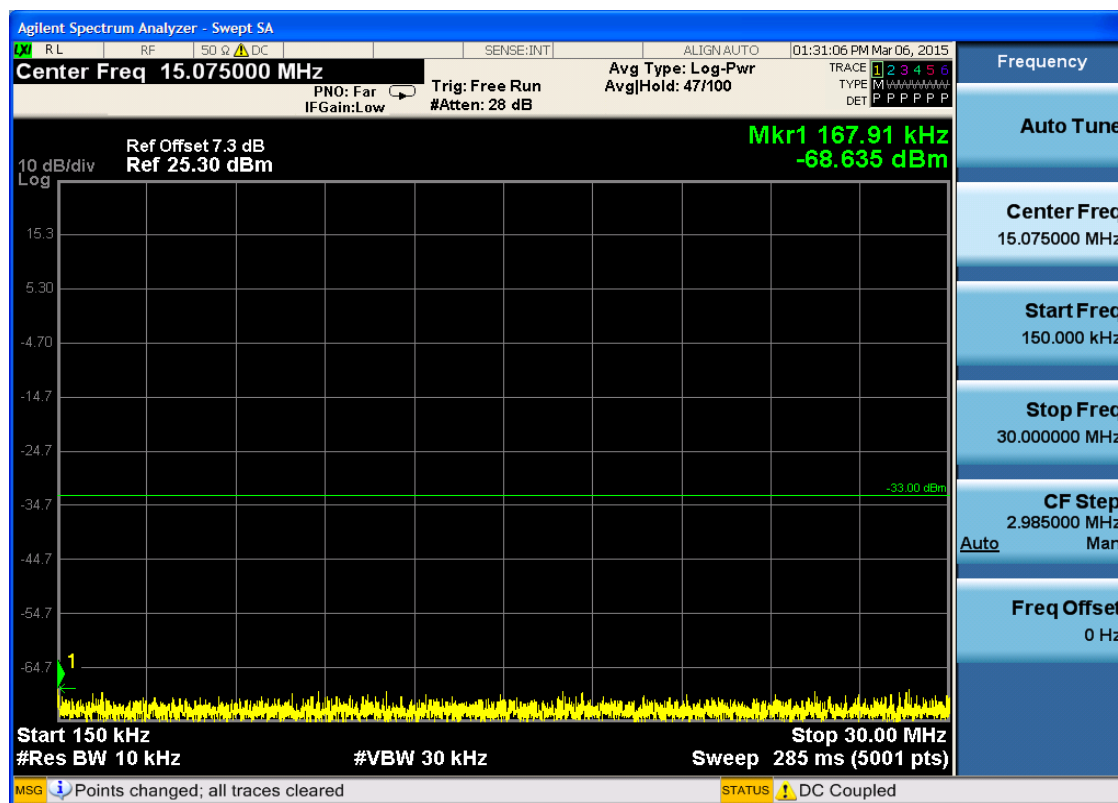


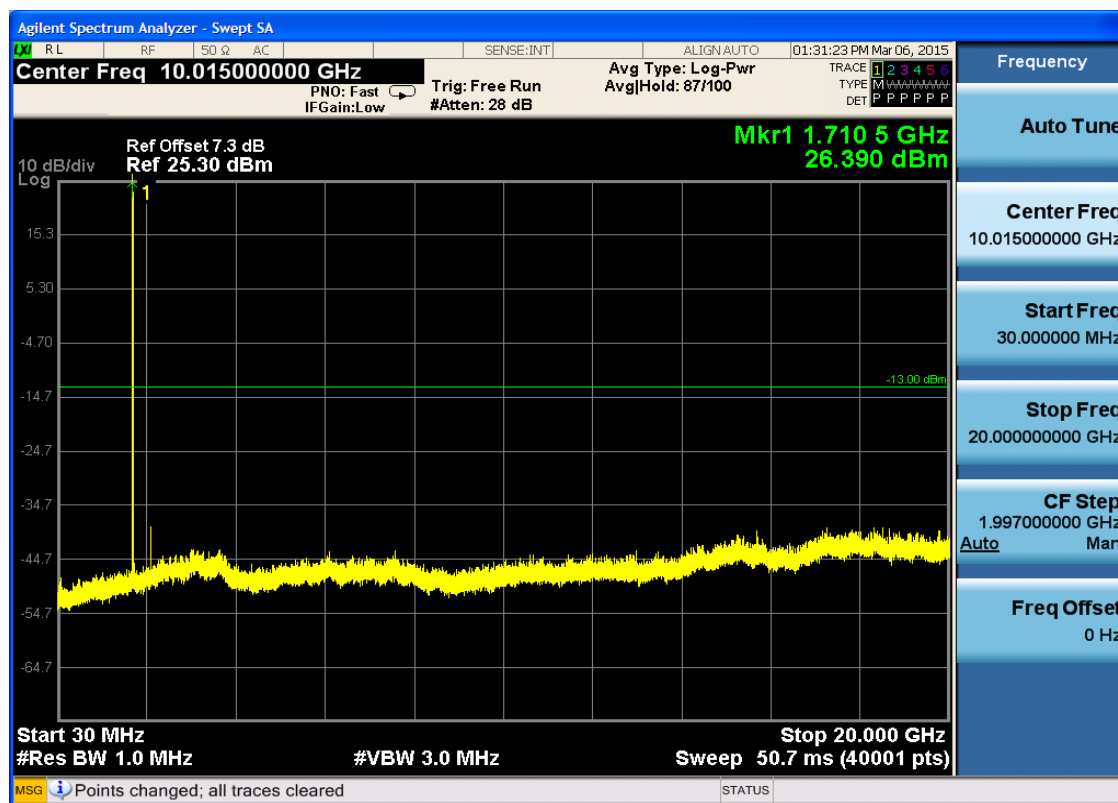
6.1.1.1.2 Test Bandwidth = 3

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0

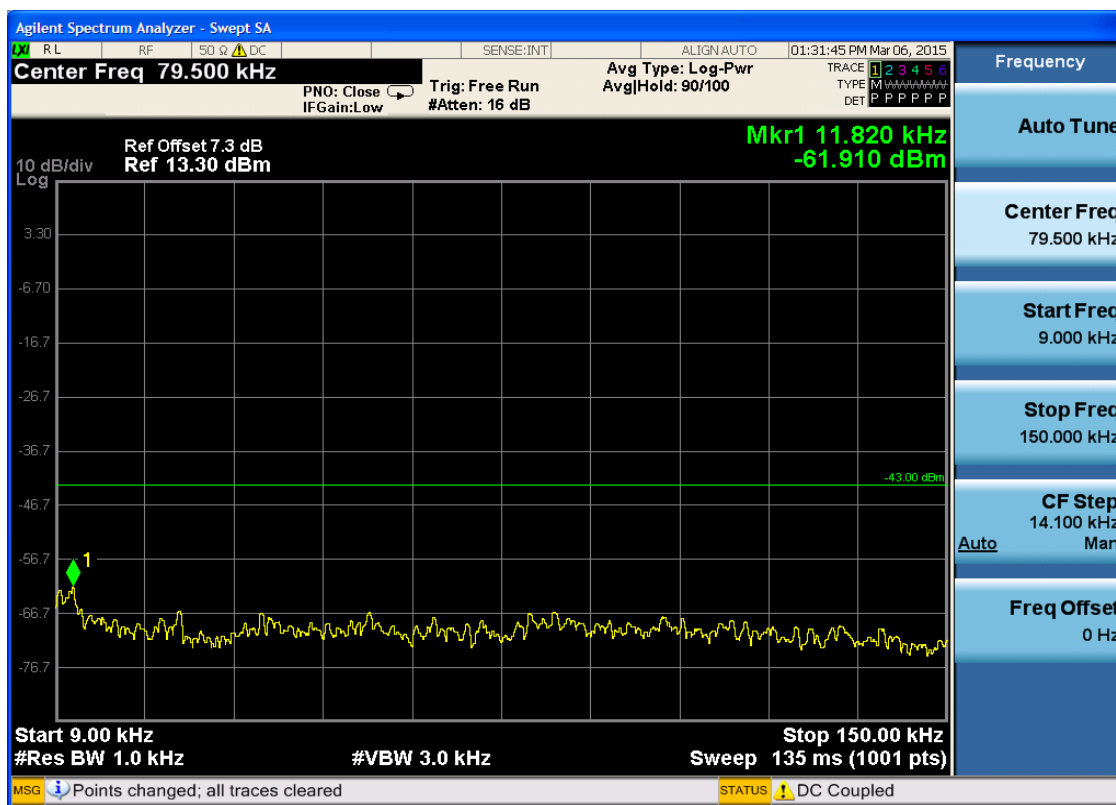


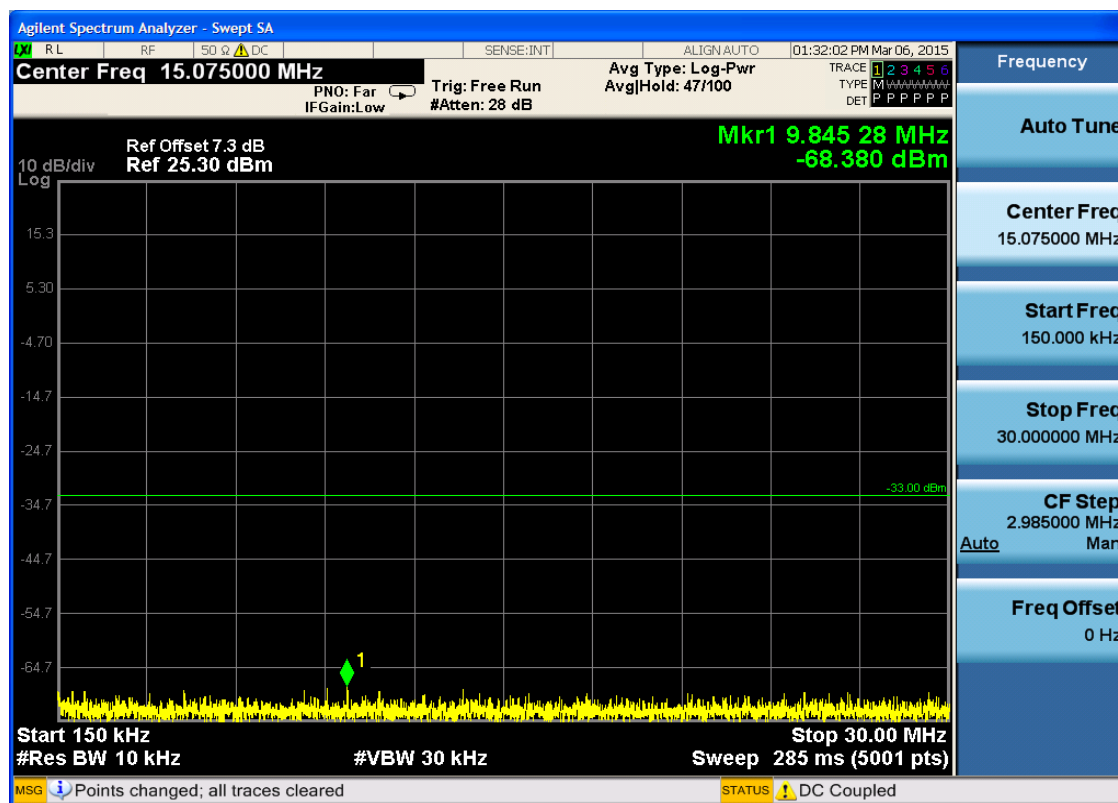


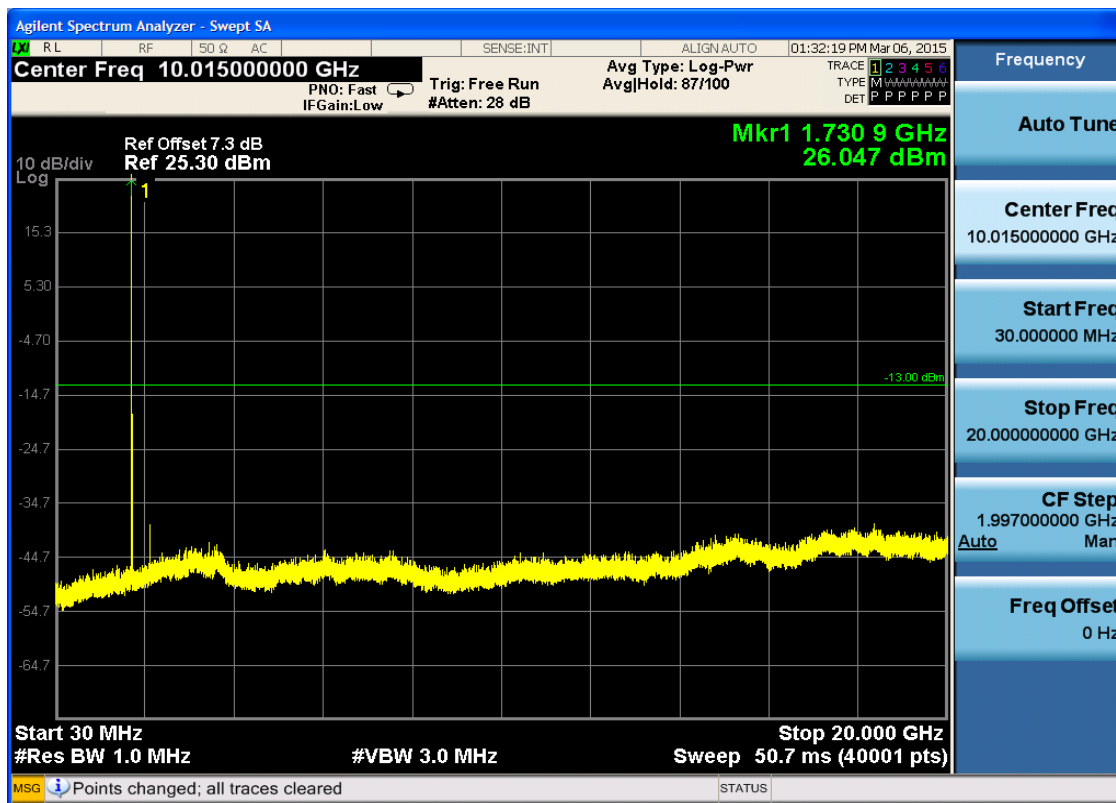


6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0

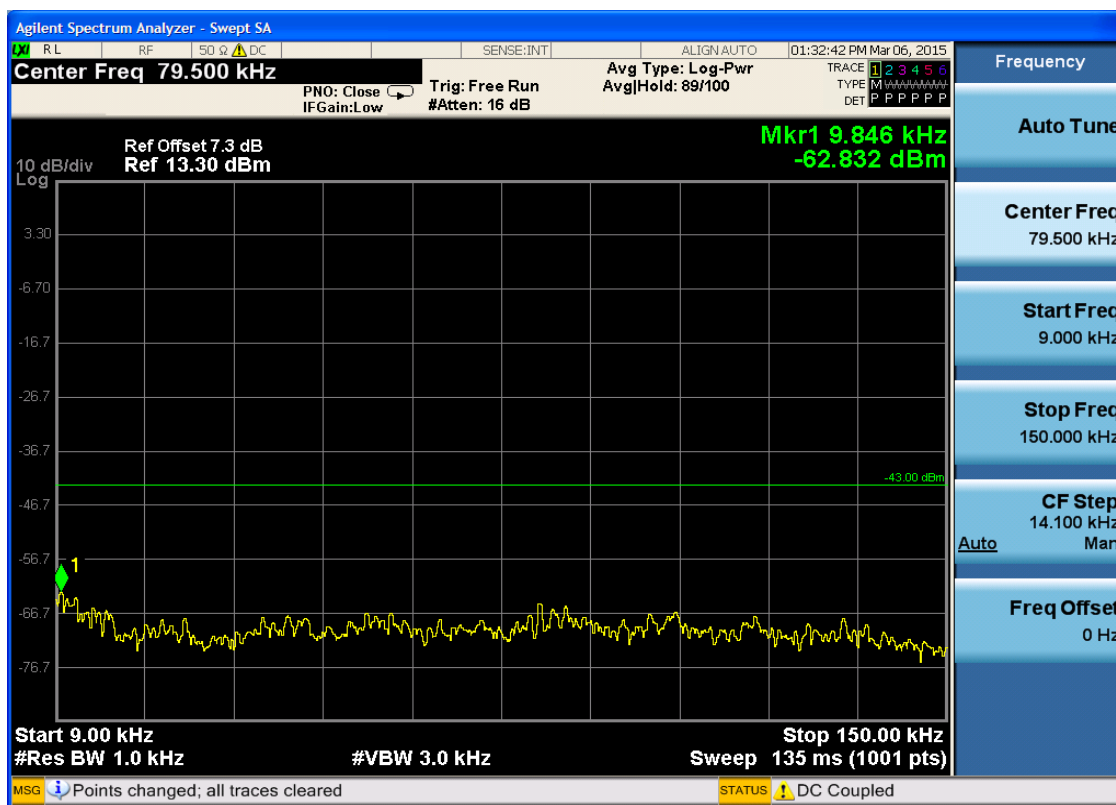


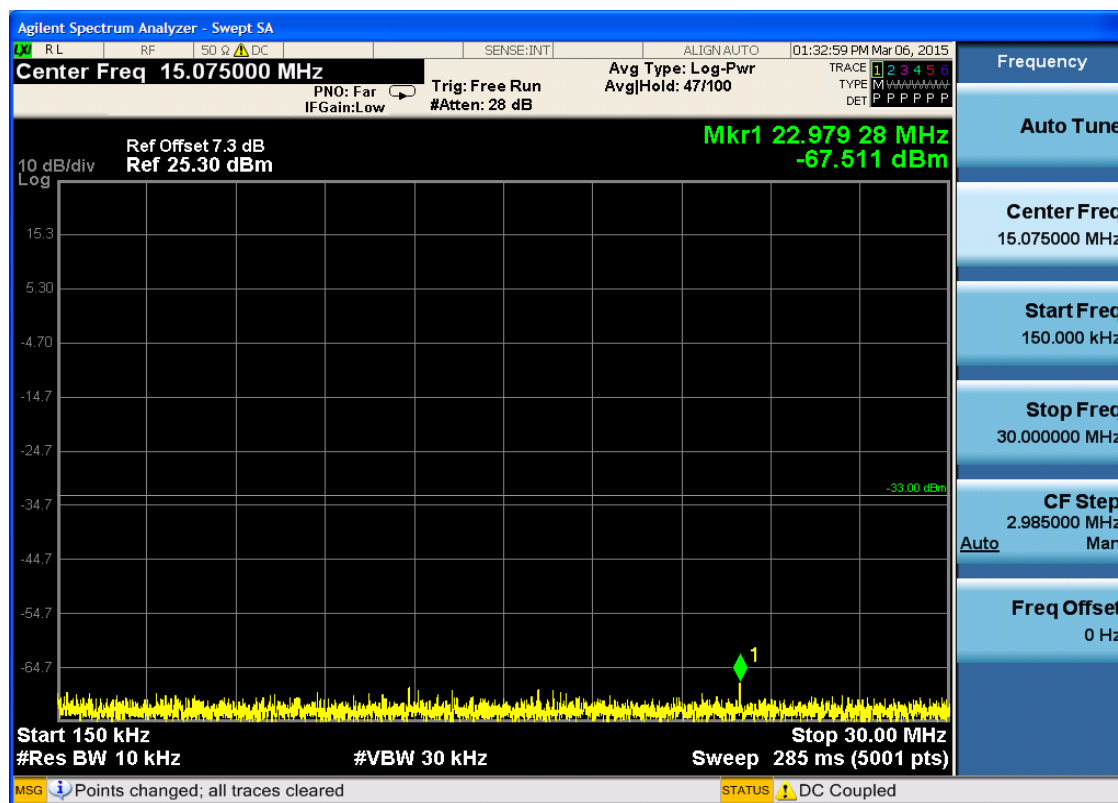


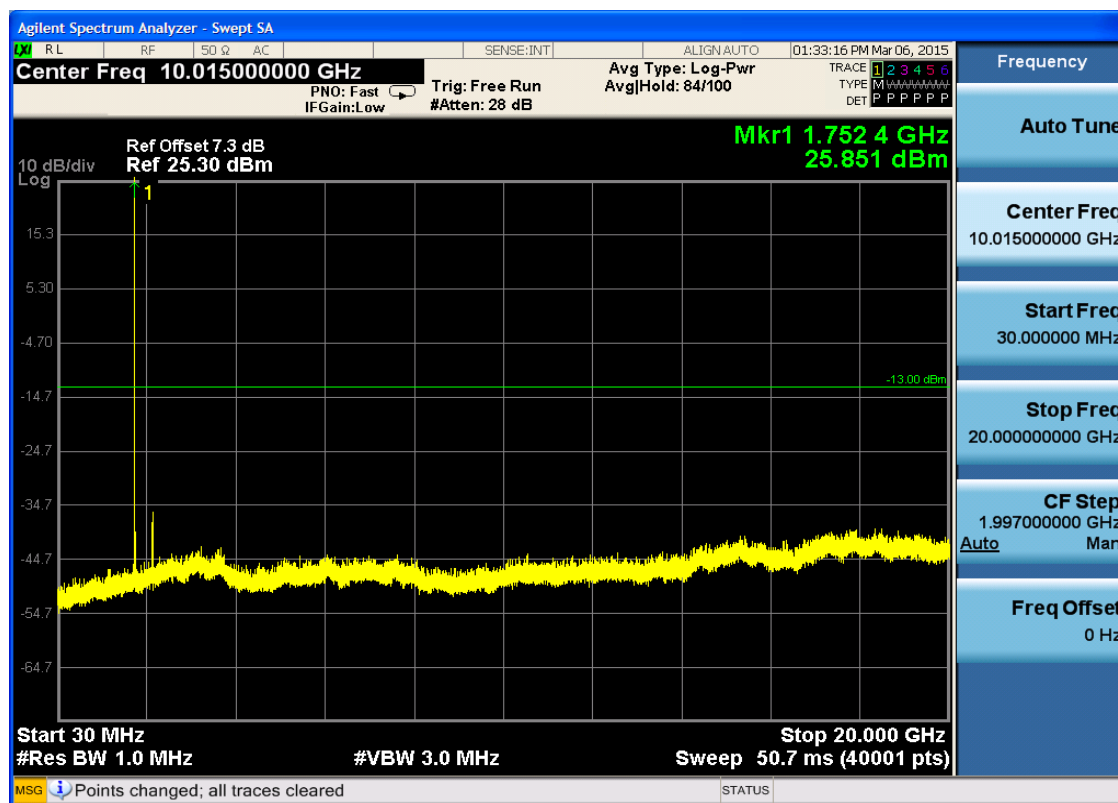


6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0



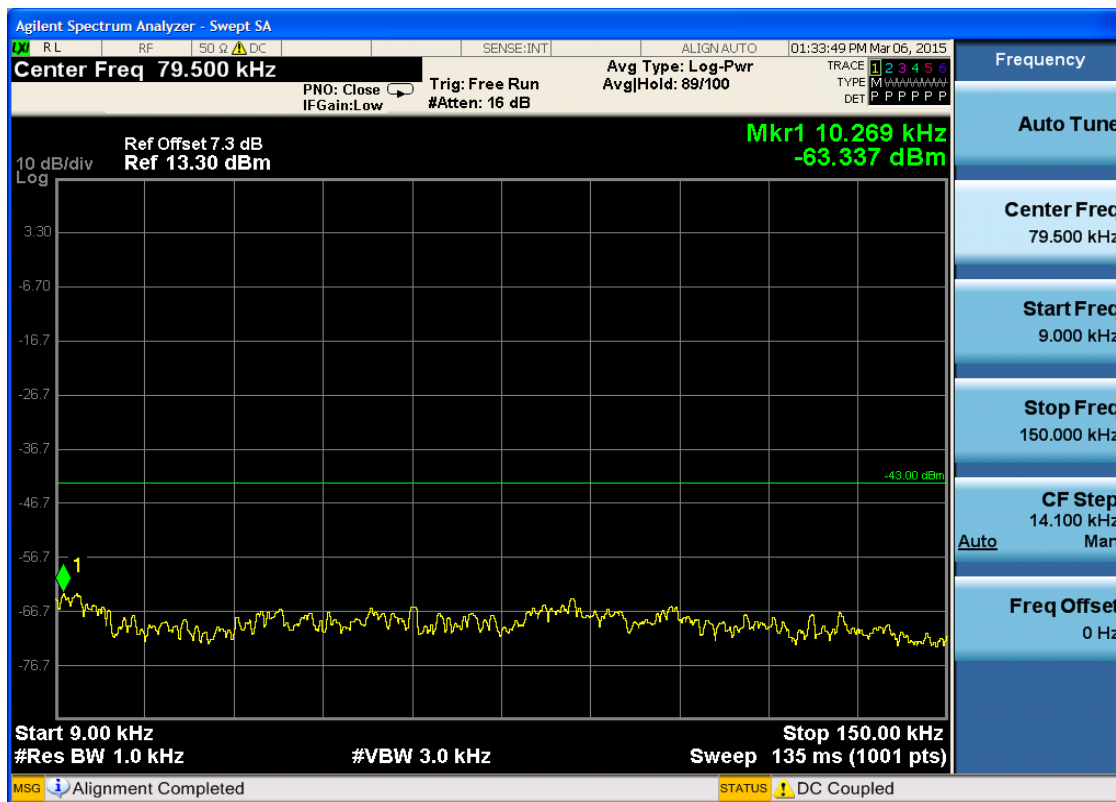


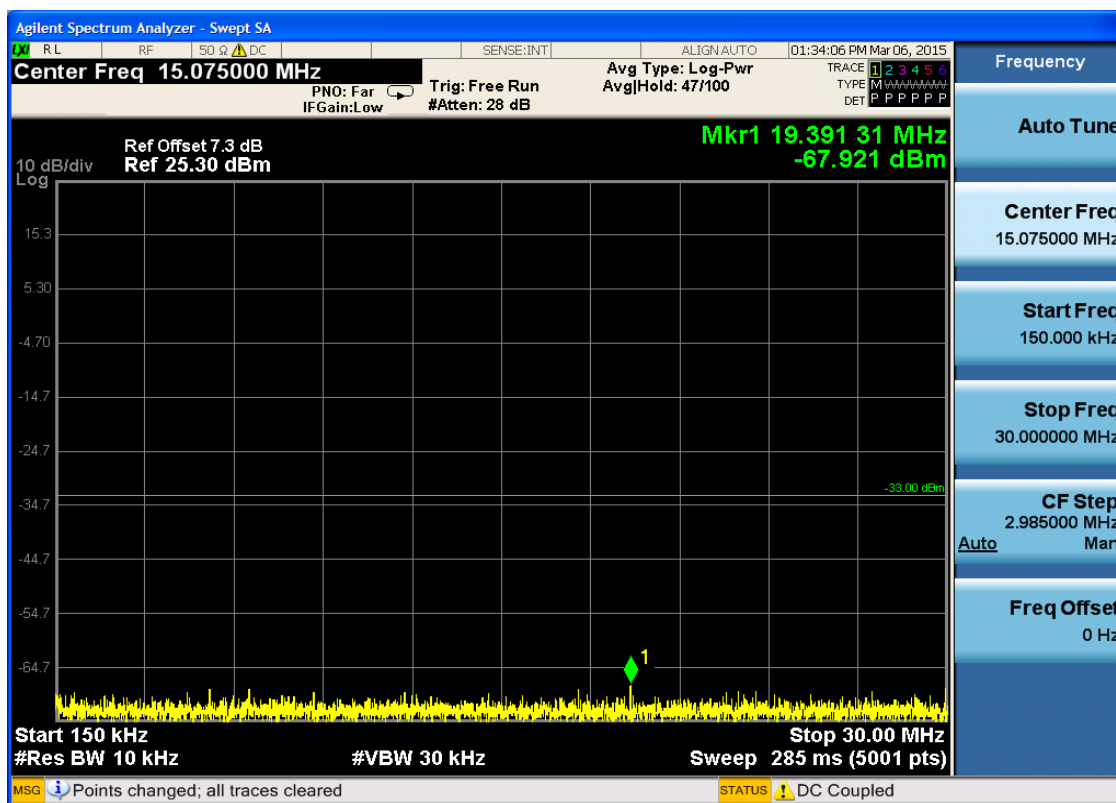


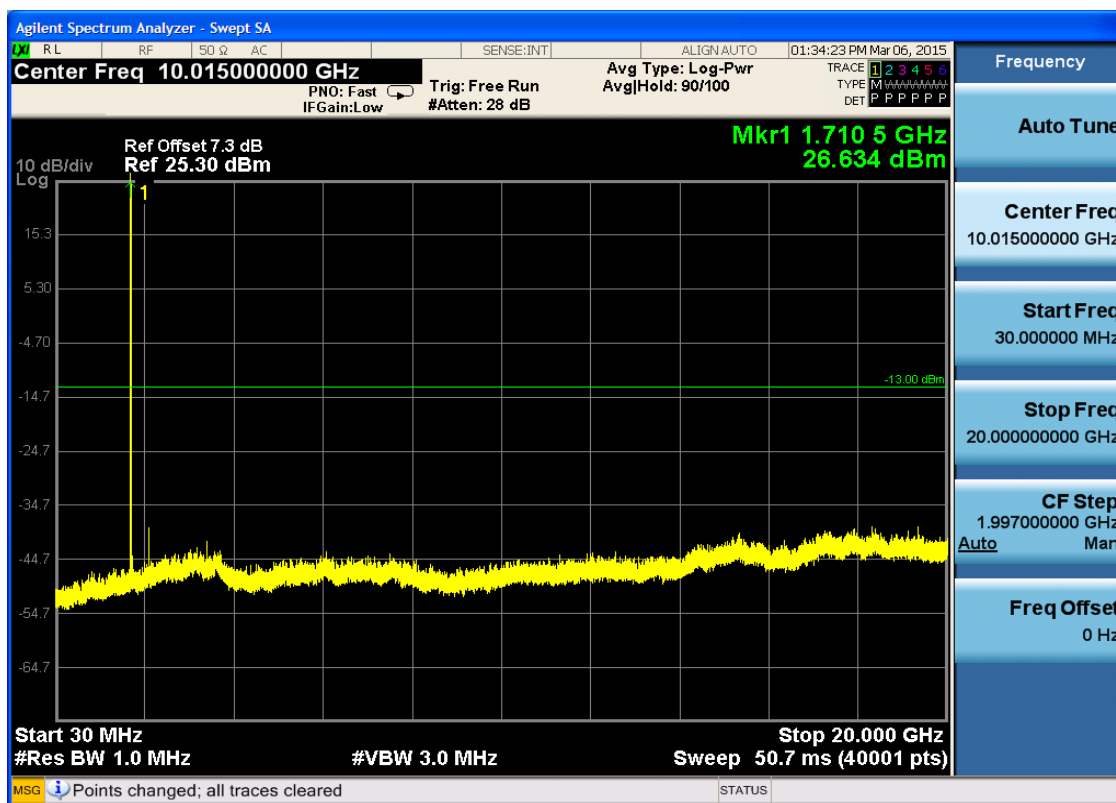
6.1.1.1.3 Test Bandwidth = 5

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0

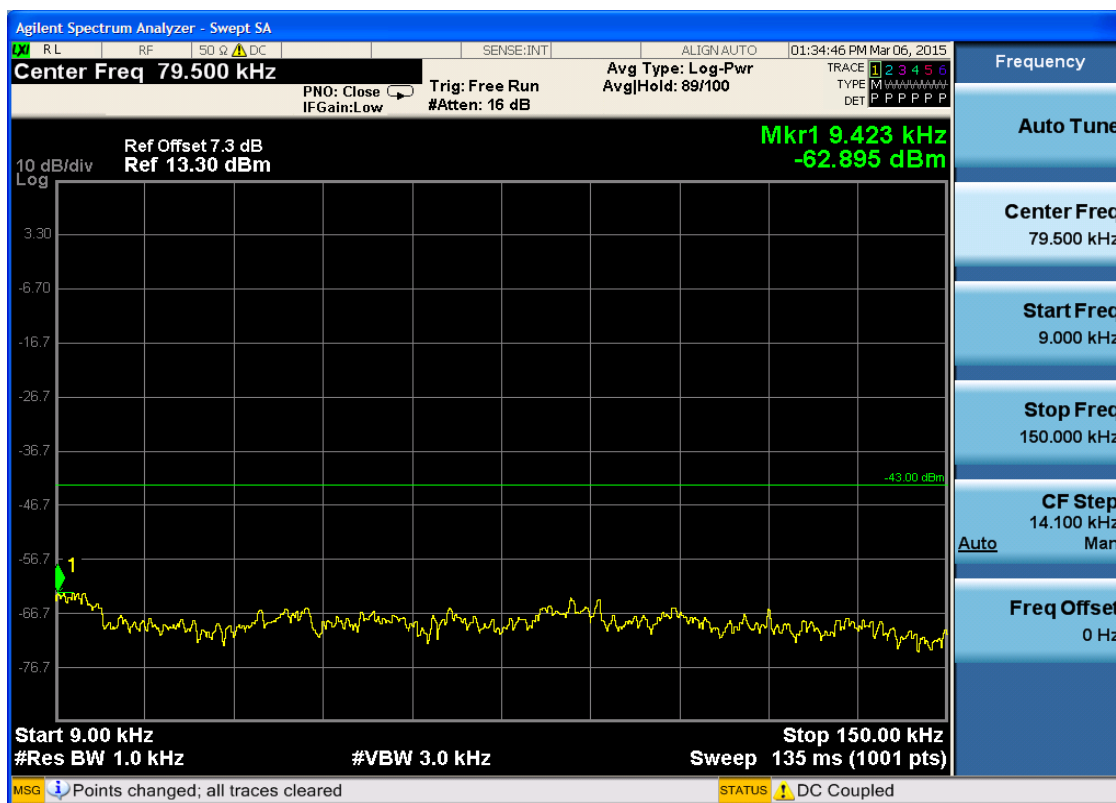


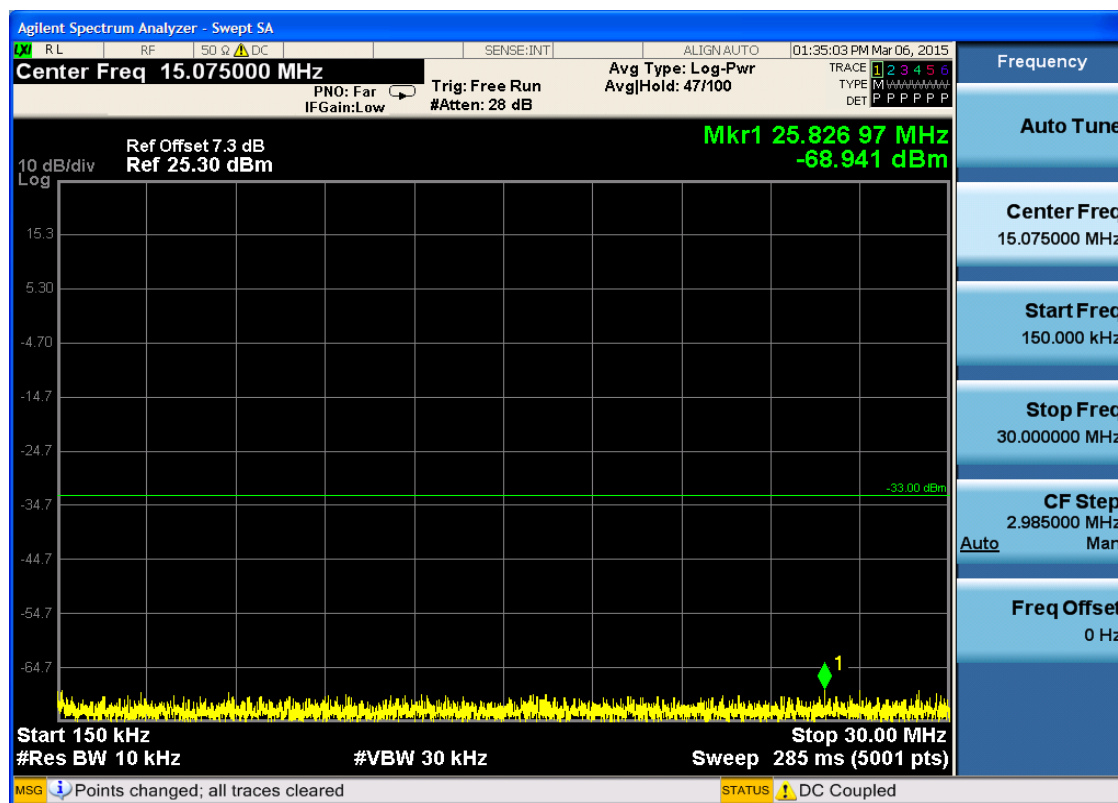


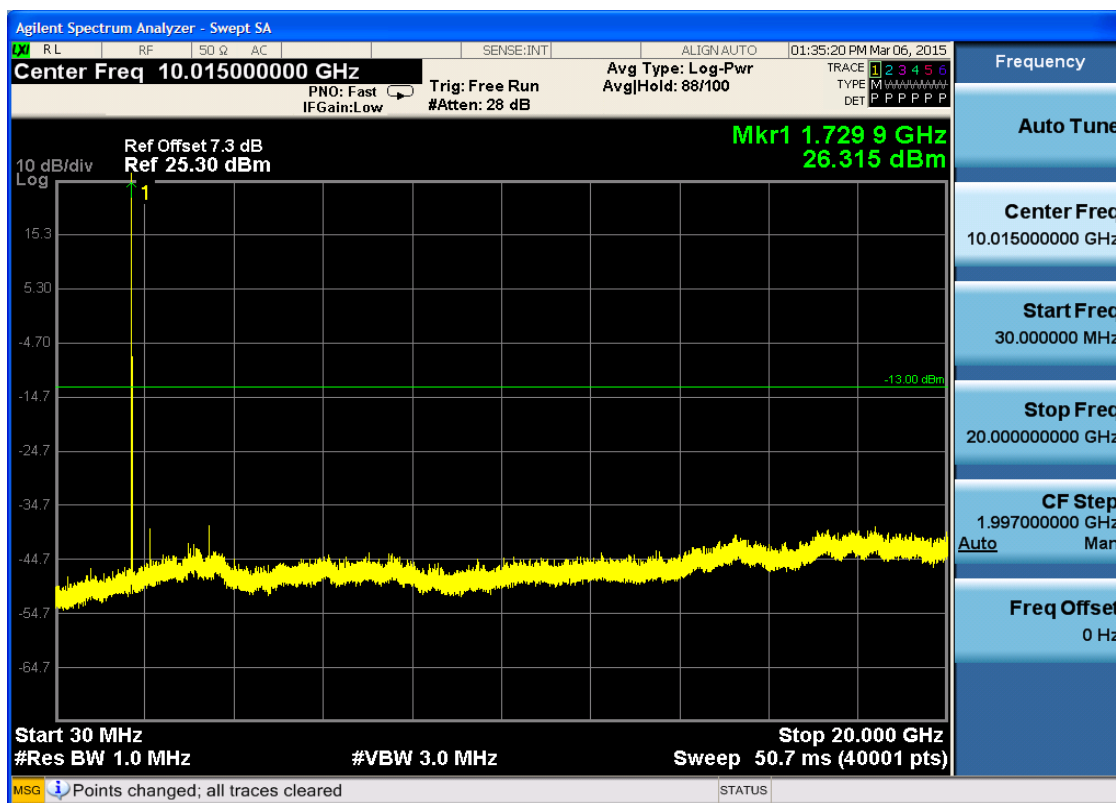


6.1.1.1.3.2 Test Channel = MCH

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

