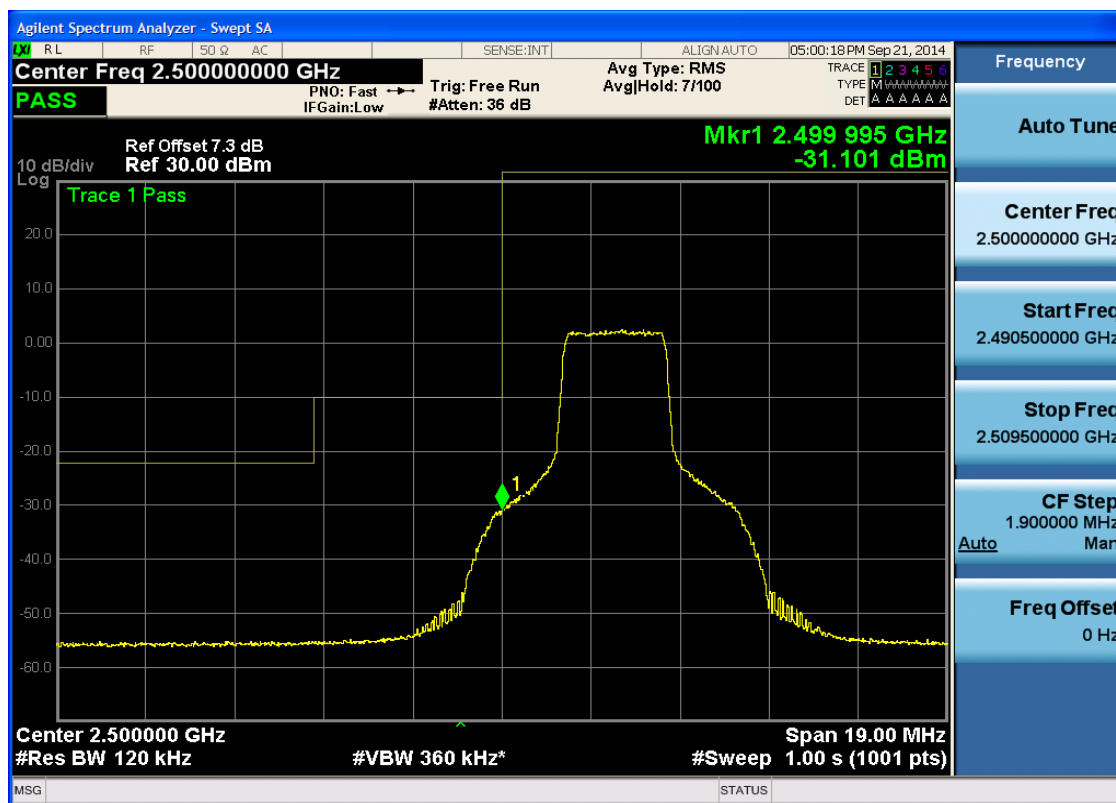


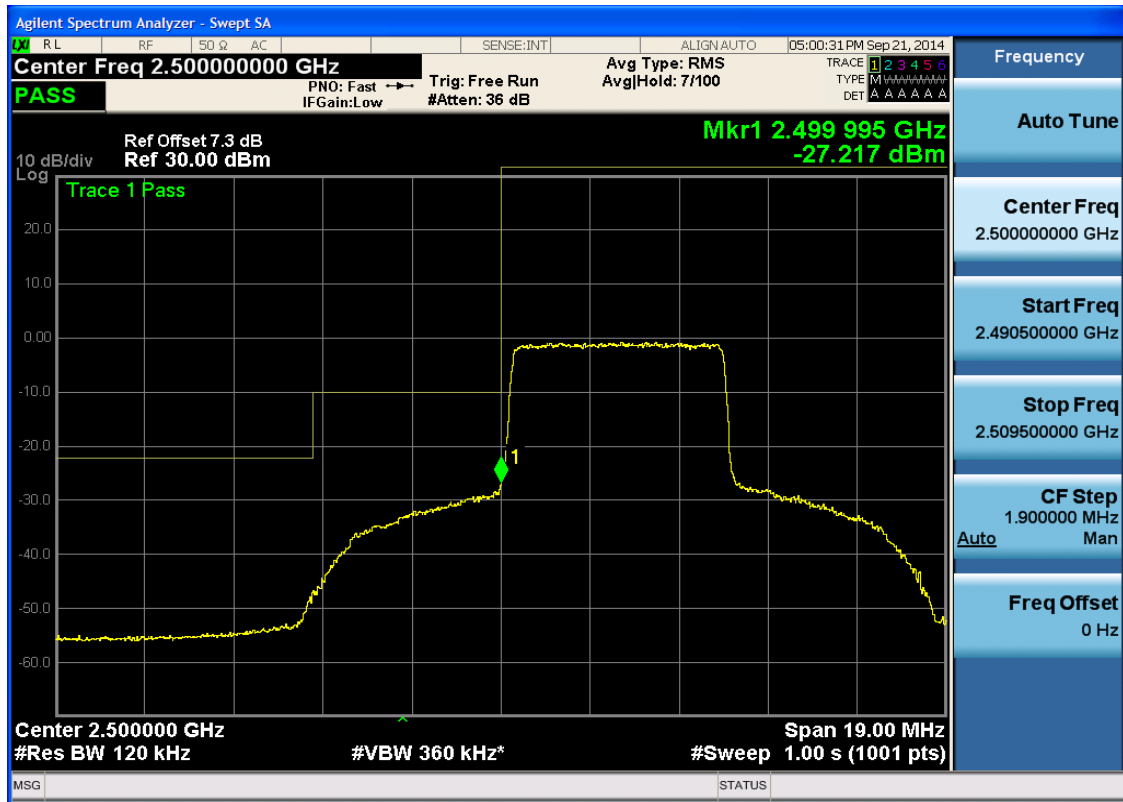


5.2.1.2.1.1.3 Test RB = RB12#6





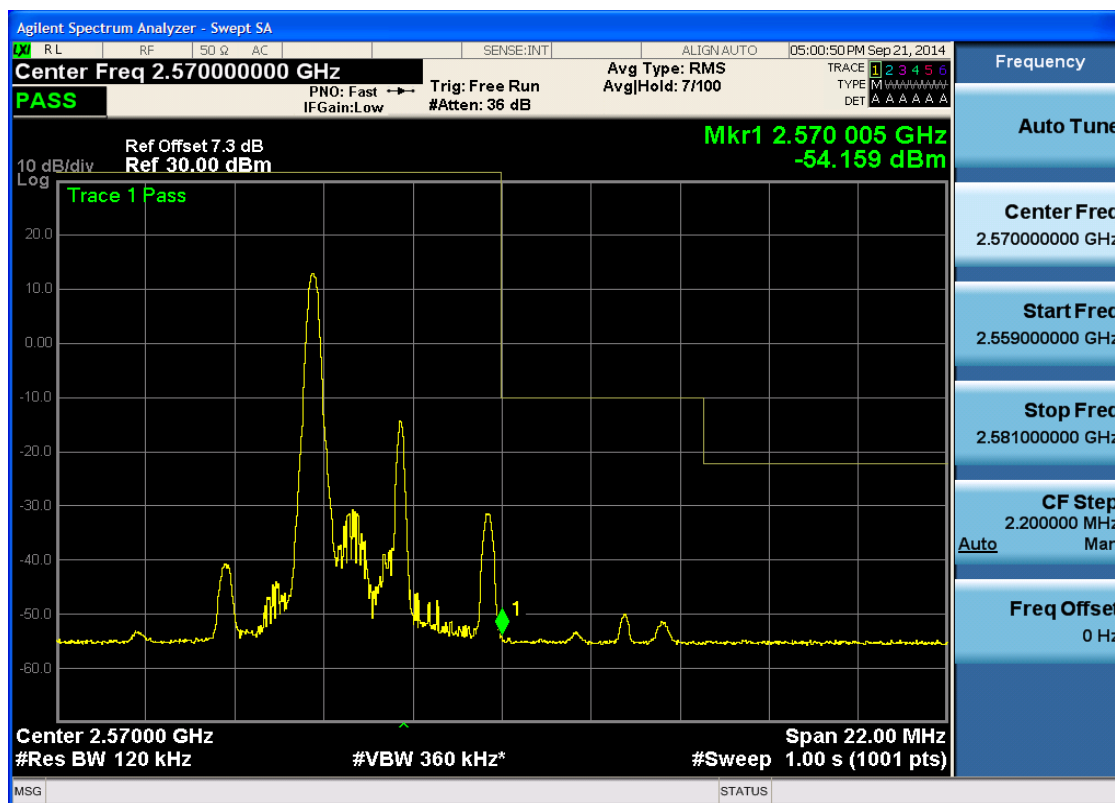
5.2.1.2.1.1.4 Test RB = RB25#0





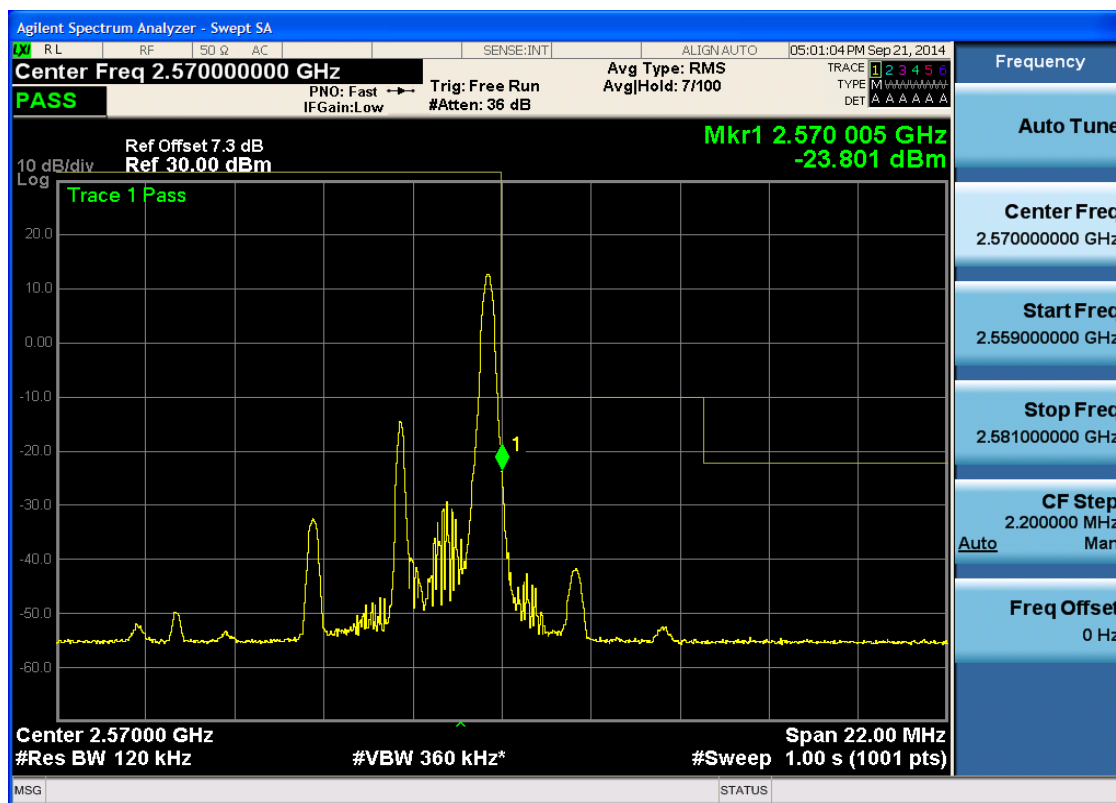
5.2.1.2.1.2 Test Channel = HCH

5.2.1.2.1.2.1 Test RB = RB1#0

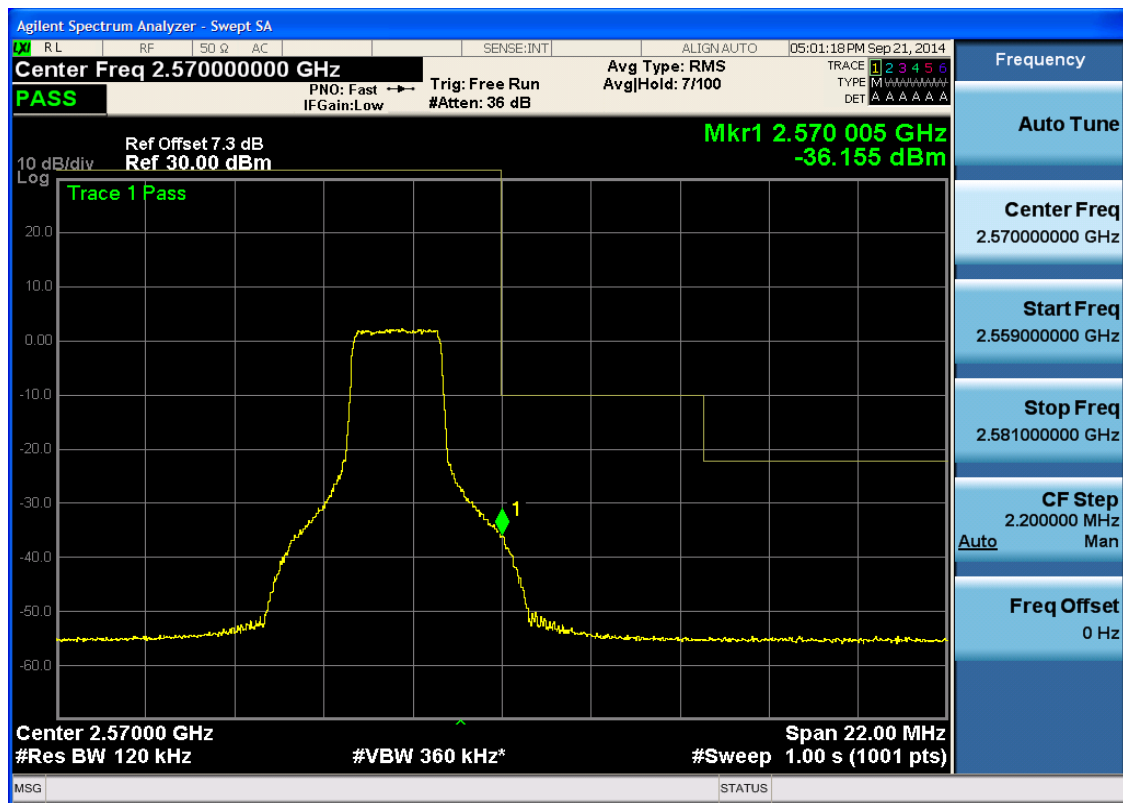




5.2.1.2.1.2.2 Test RB = RB1#24



5.2.1.2.1.2.3 Test RB = RB12#6



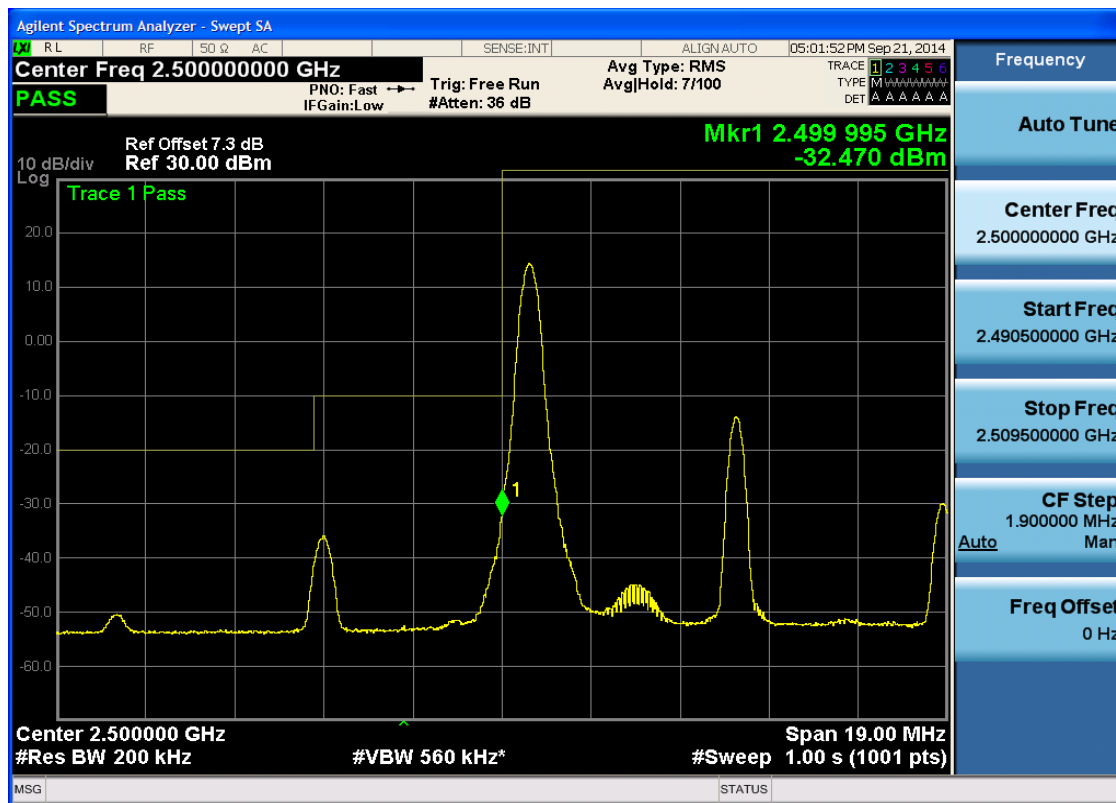
5.2.1.2.1.2.4 Test RB = RB25#0



5.2.1.2.2 Test Bandwidth = 10

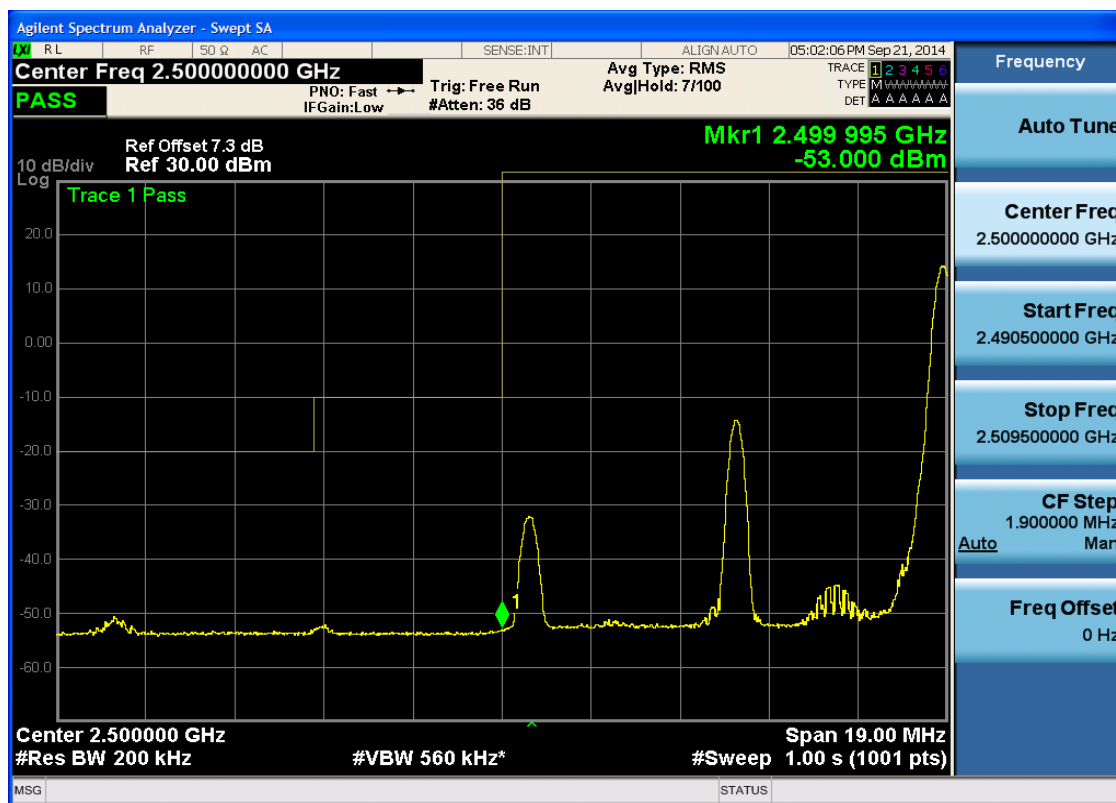
5.2.1.2.2.1 Test Channel = LCH

5.2.1.2.2.1.1 Test RB = RB1#0





5.2.1.2.2.1.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN:AUTO 05:02:19 PM Sep 21, 2014

Center Freq 2.50000000 GHz Avg Type: RMS
PASS PNO: Fast IF Gain: Low Trig: Free Run Avg|Hold: 7/100
TYPE: MAAAAA
DET: AAAAAA

Ref Offset 7.3 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-32.992 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 200 kHz #VBW 560 kHz* #Sweep 1.00 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

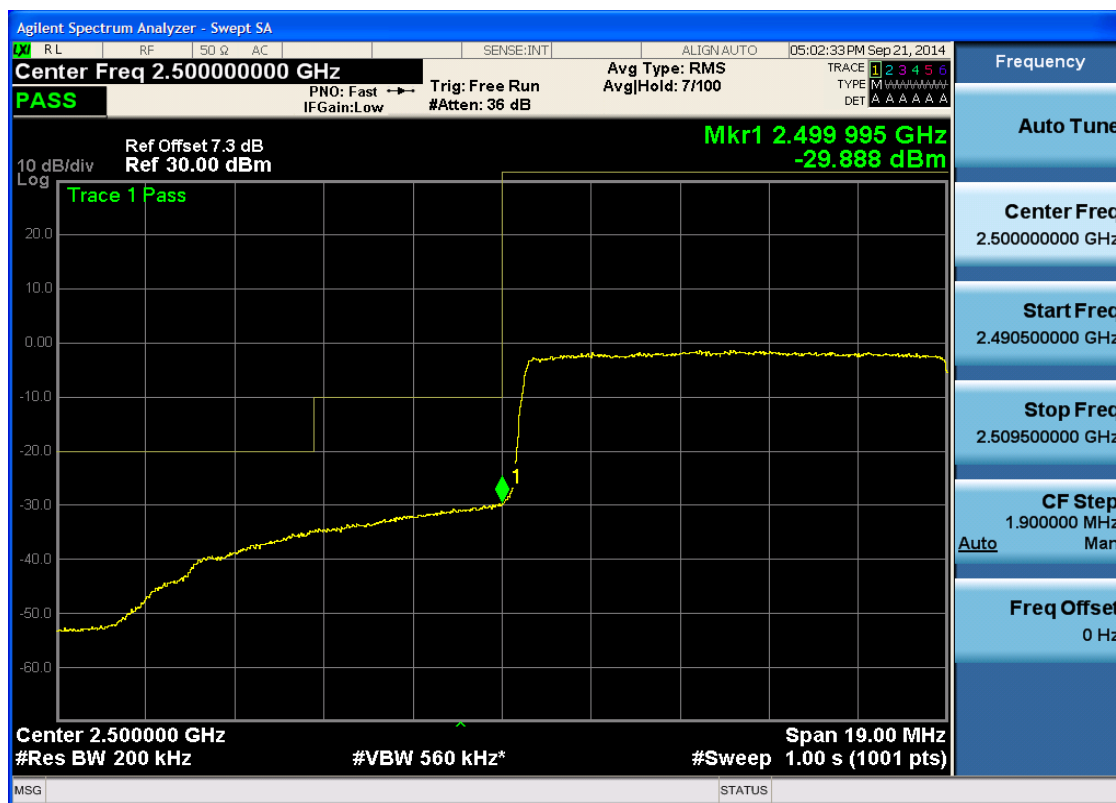
Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



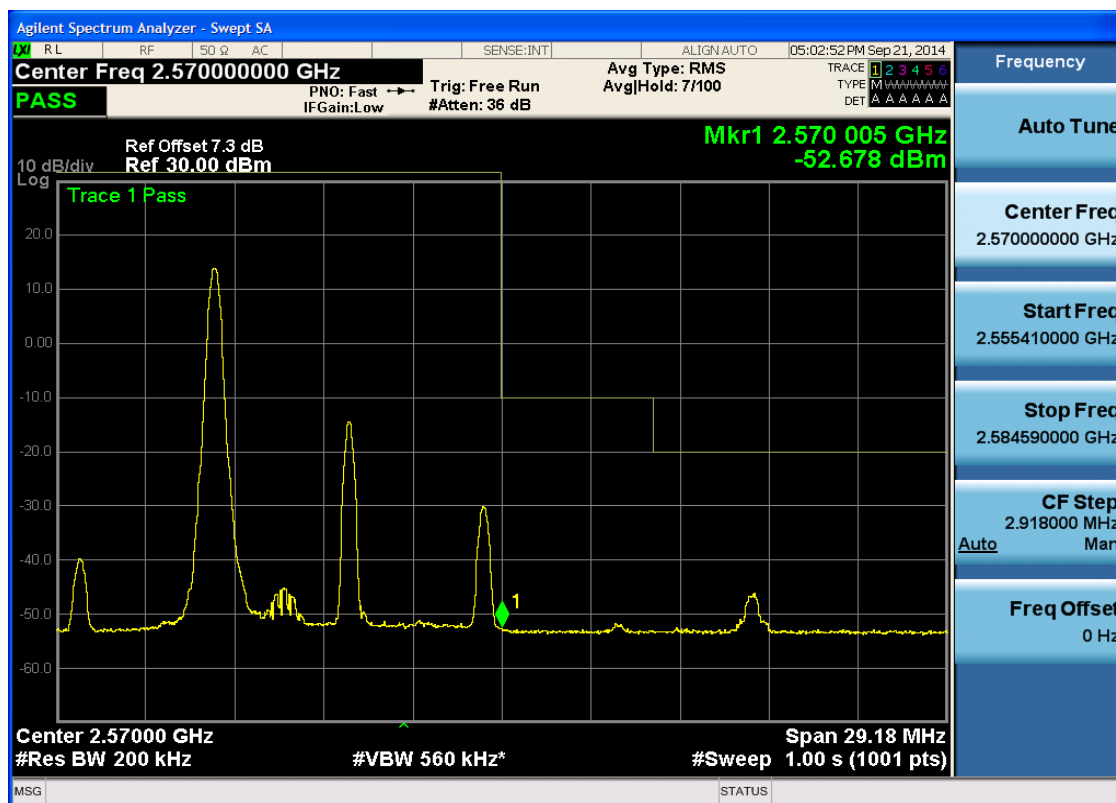
5.2.1.2.2.1.4 Test RB = RB50#0





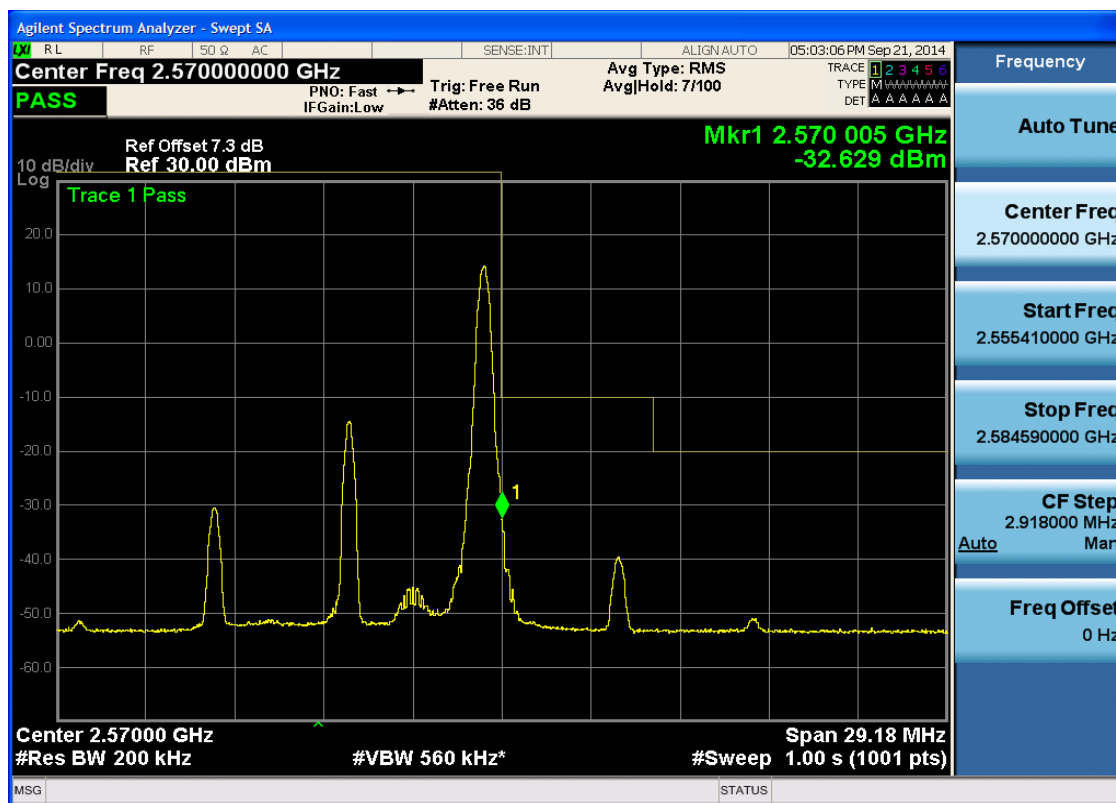
5.2.1.2.2.2 Test Channel = HCH

5.2.1.2.2.2.1 Test RB = RB1#0



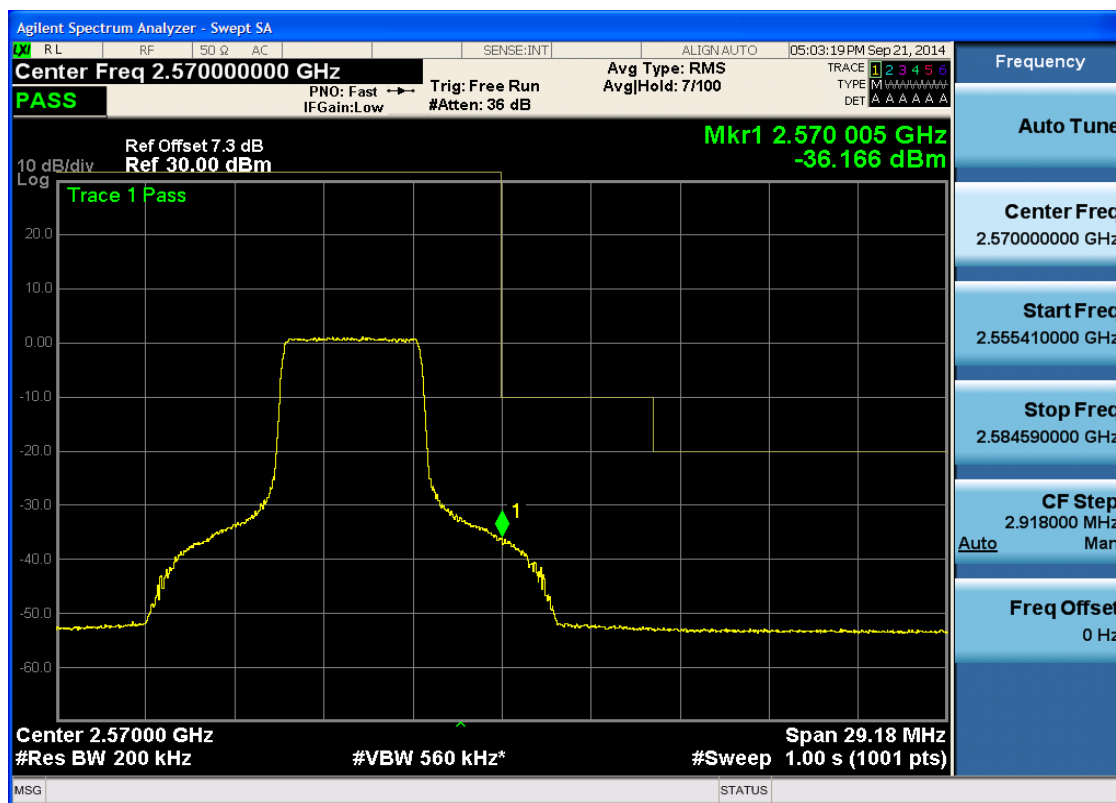


5.2.1.2.2.2 Test RB = RB1#49



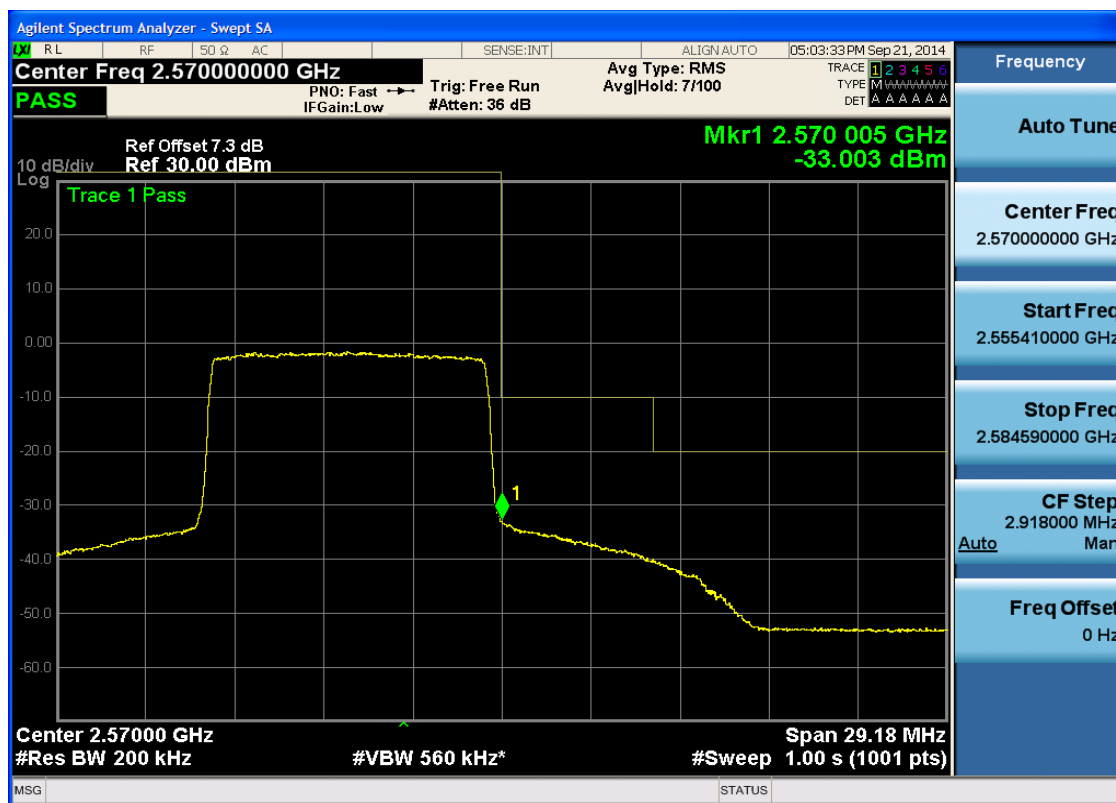


5.2.1.2.2.3 Test RB = RB25#13





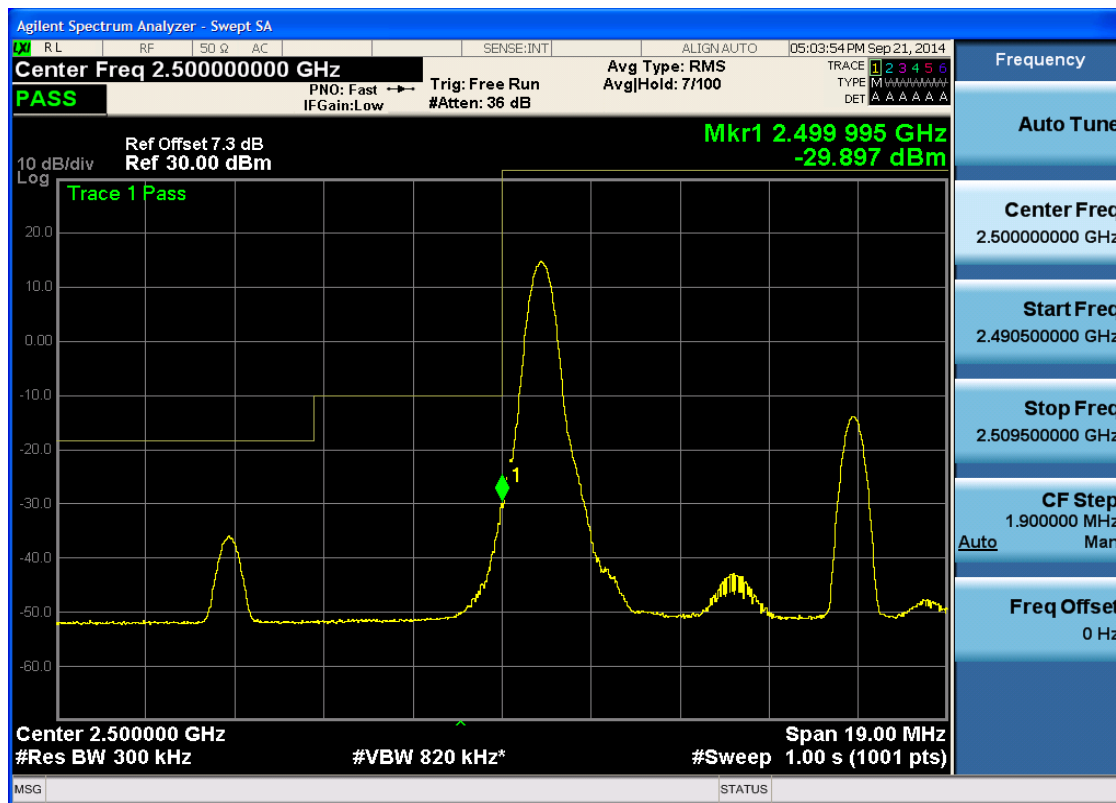
5.2.1.2.2.4 Test RB = RB50#0



5.2.1.2.3 Test Bandwidth = 15

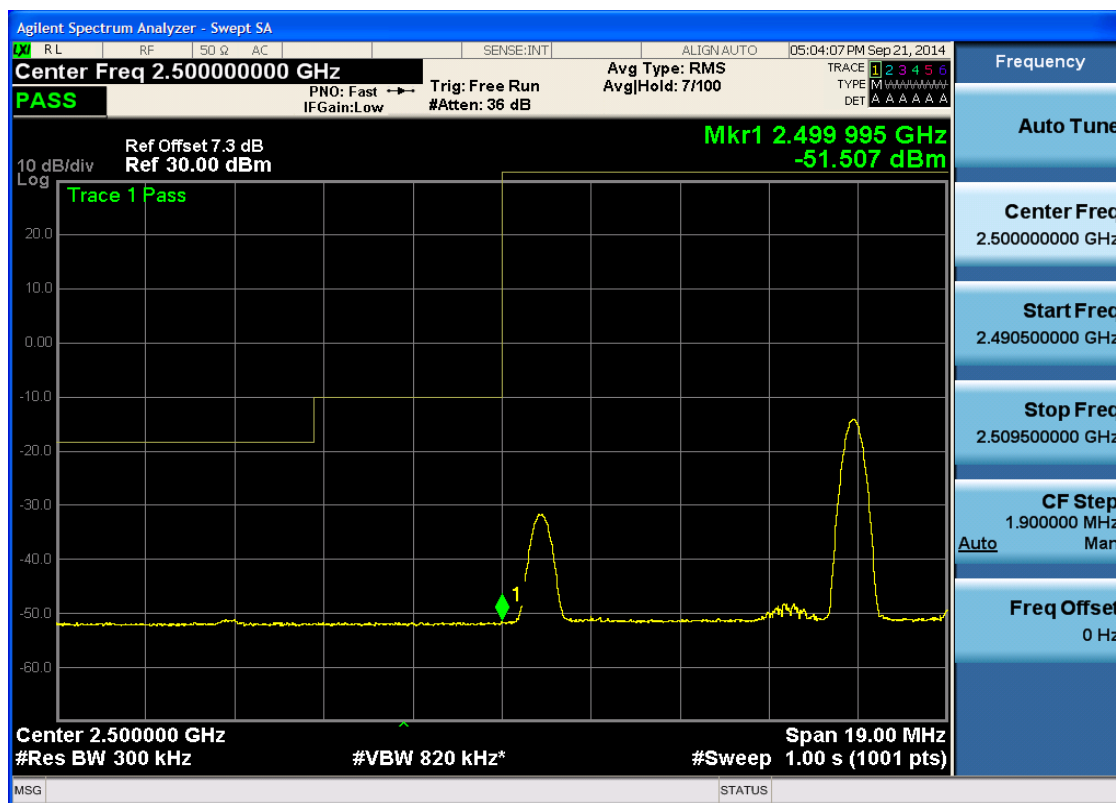
5.2.1.2.3.1 Test Channel = LCH

5.2.1.2.3.1.1 Test RB = RB1#0



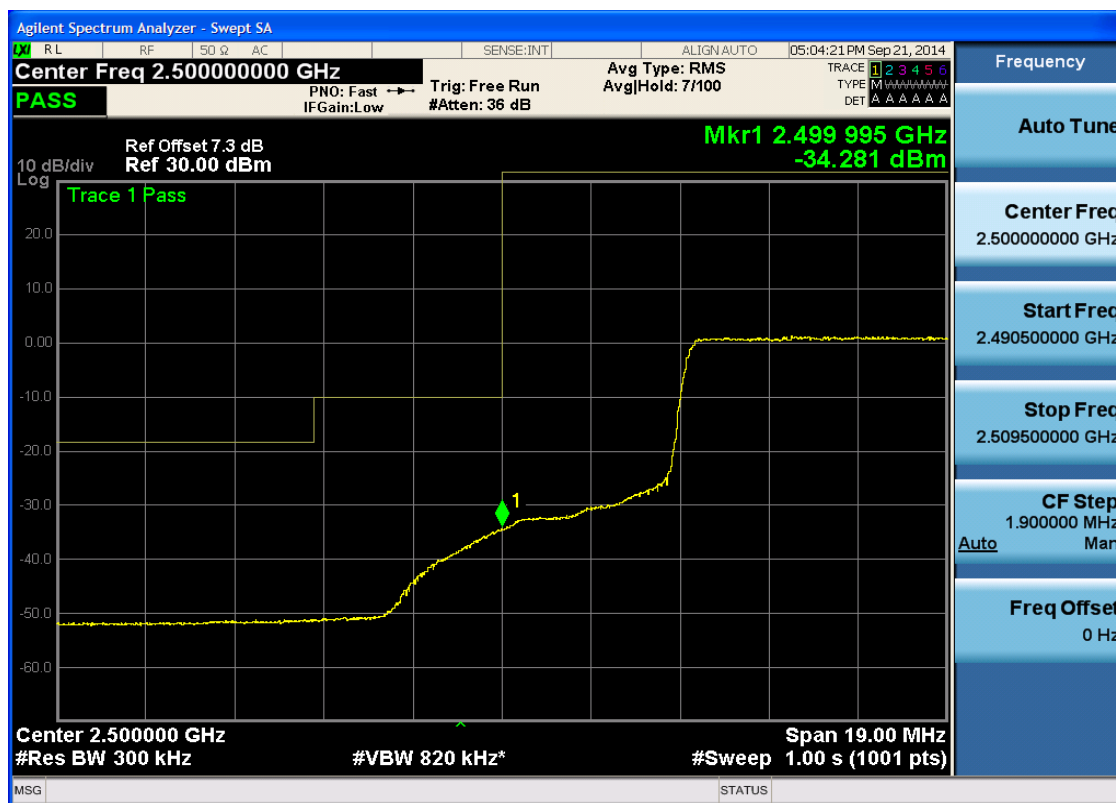


5.2.1.2.3.1.2 Test RB = RB1#74



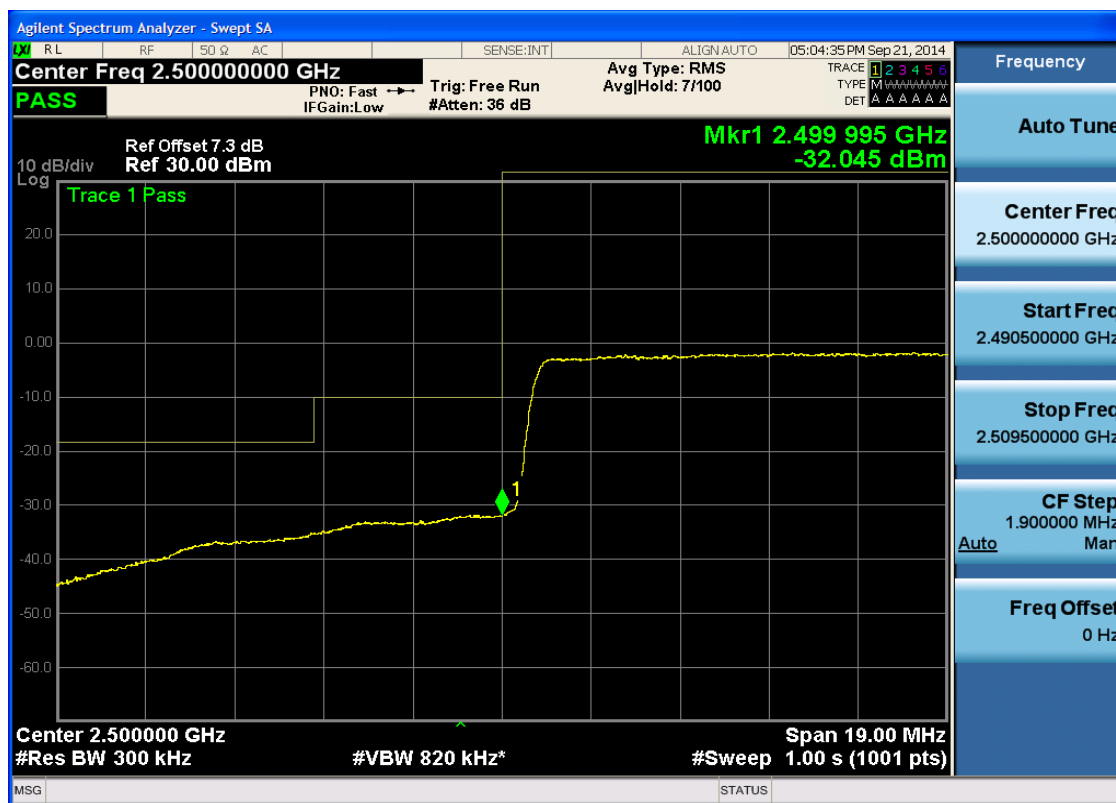


5.2.1.2.3.1.3 Test RB = RB36#18





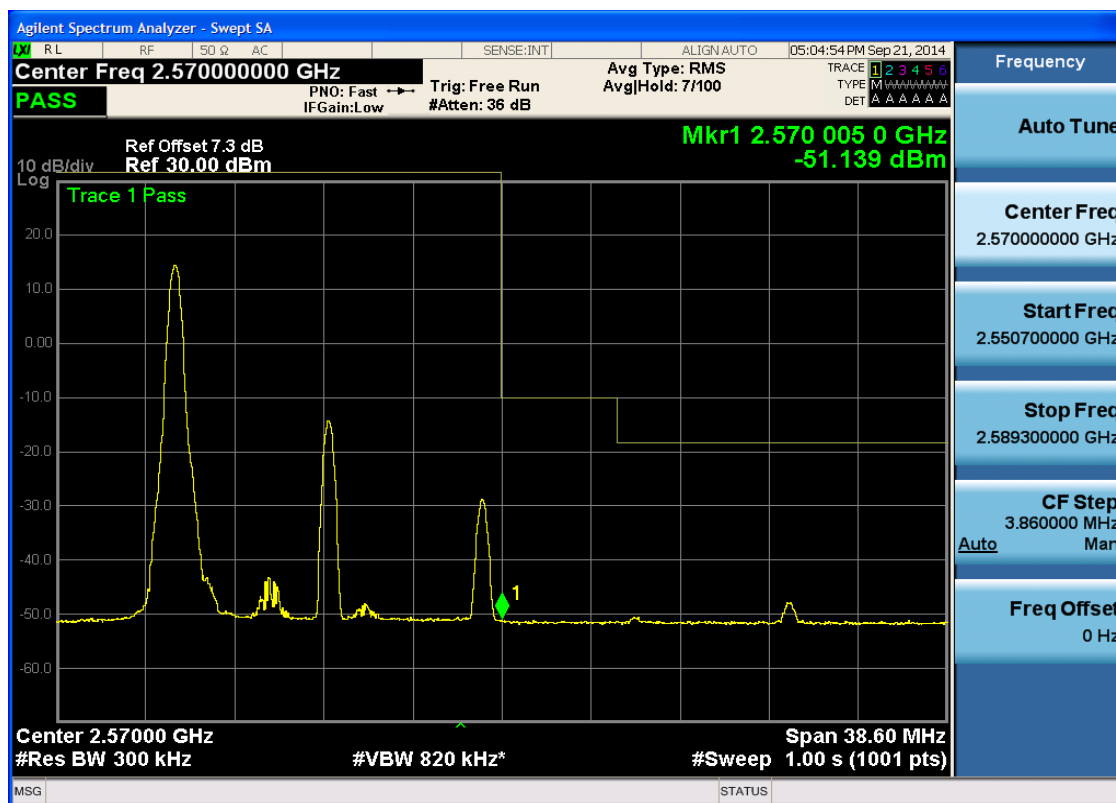
5.2.1.2.3.1.4 Test RB = RB75#0





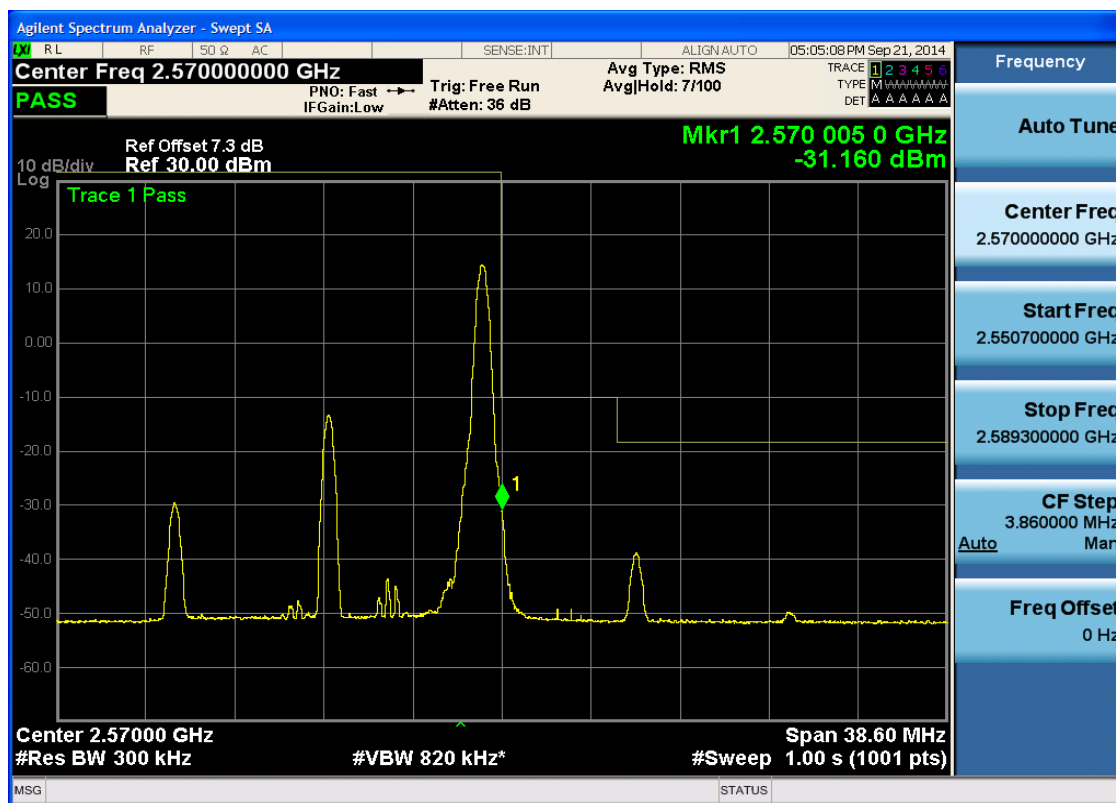
5.2.1.2.3.2 Test Channel = HCH

5.2.1.2.3.2.1 Test RB = RB1#0



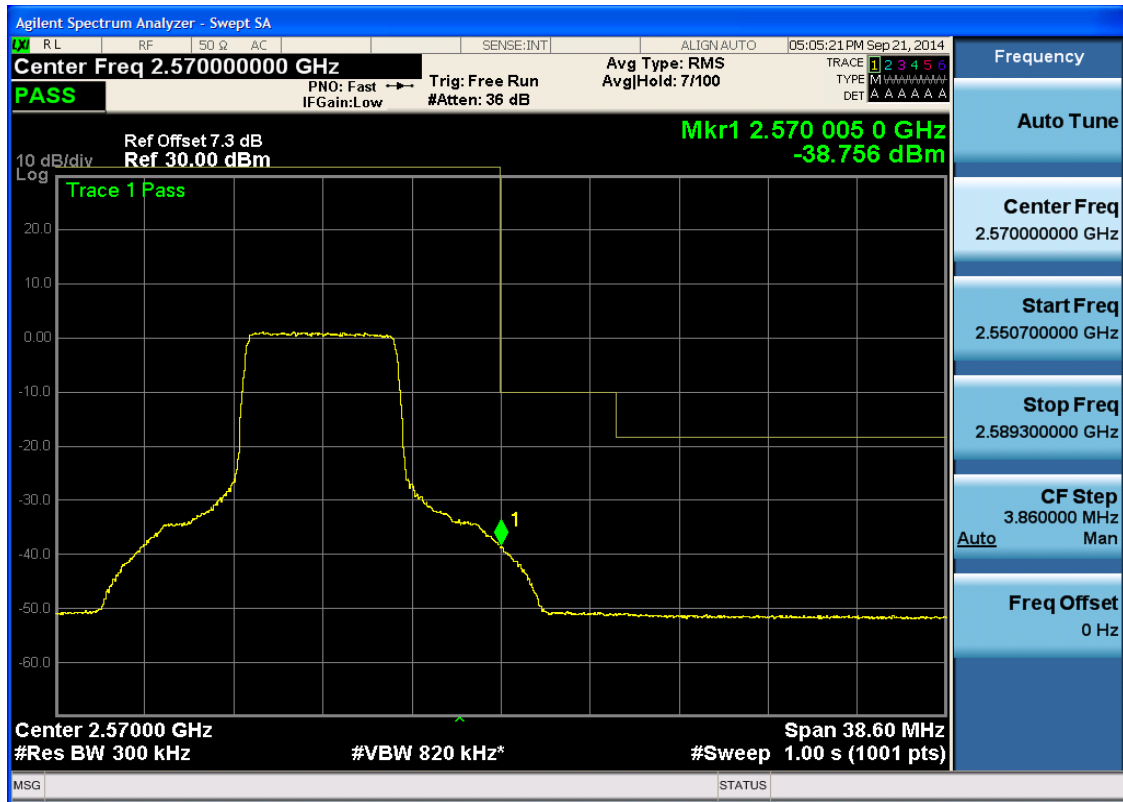


5.2.1.2.3.2.2 Test RB = RB1#74



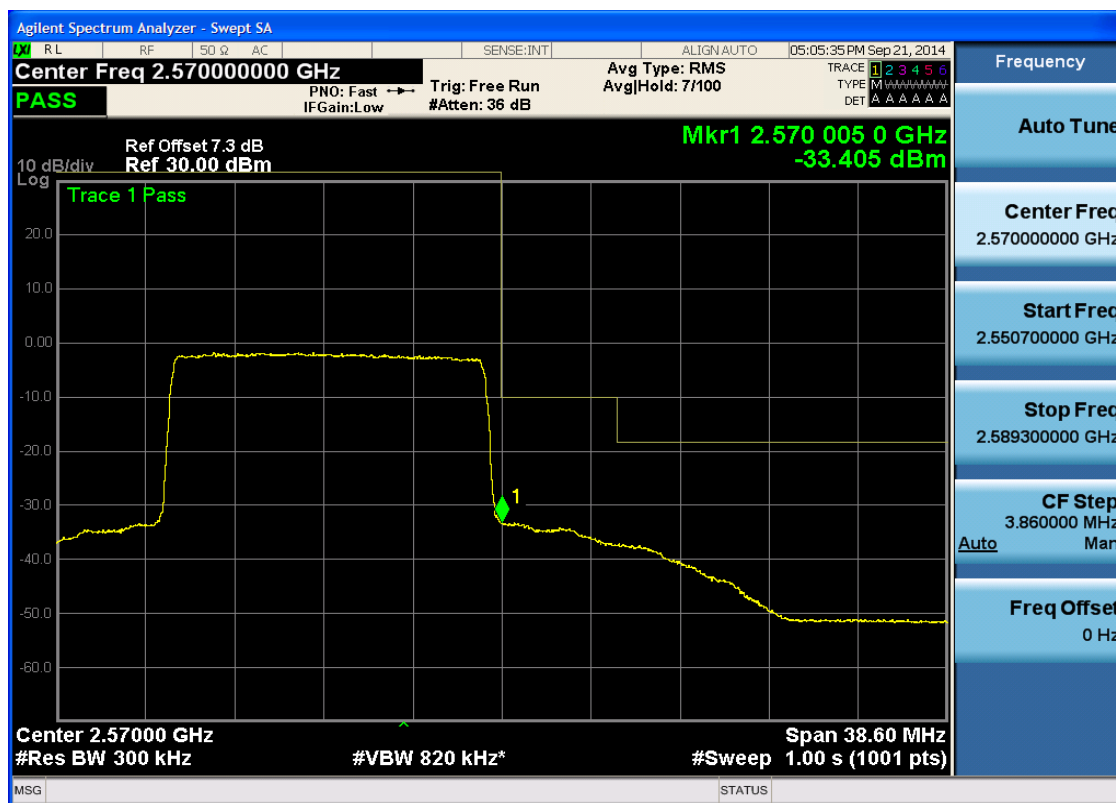


5.2.1.2.3.2.3 Test RB = RB36#18





5.2.1.2.3.2.4 Test RB = RB75#0

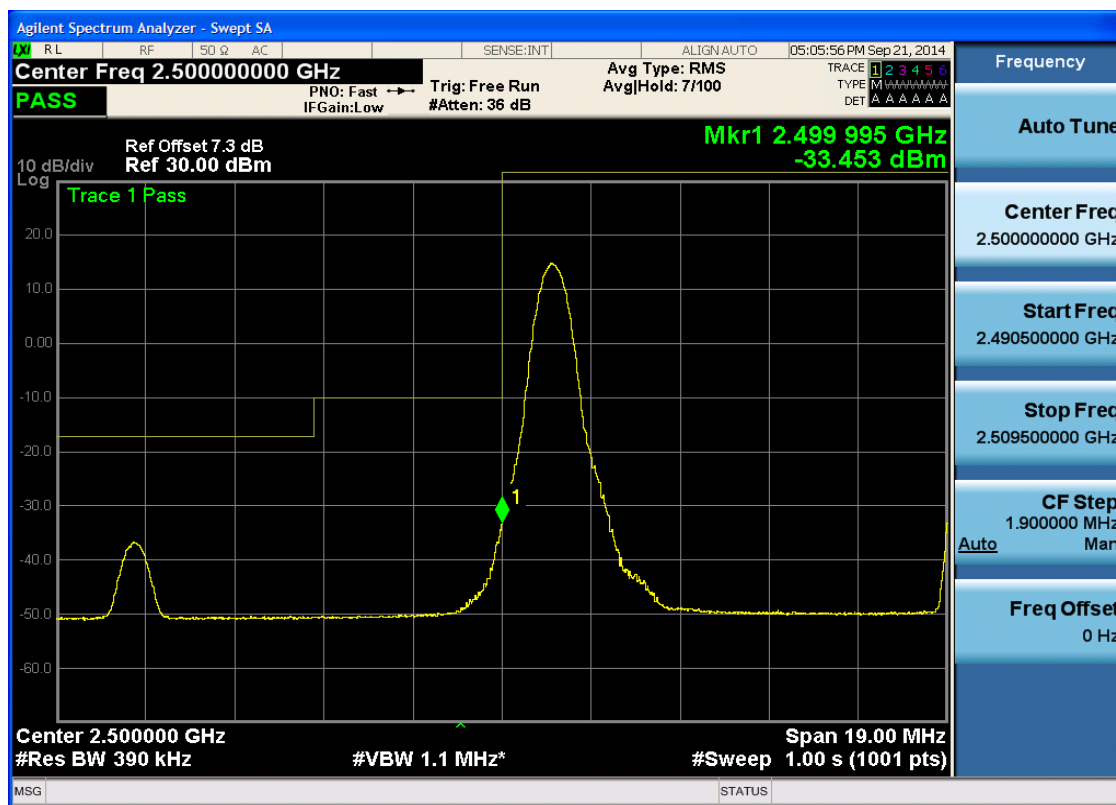




5.2.1.2.4 Test Bandwidth = 20

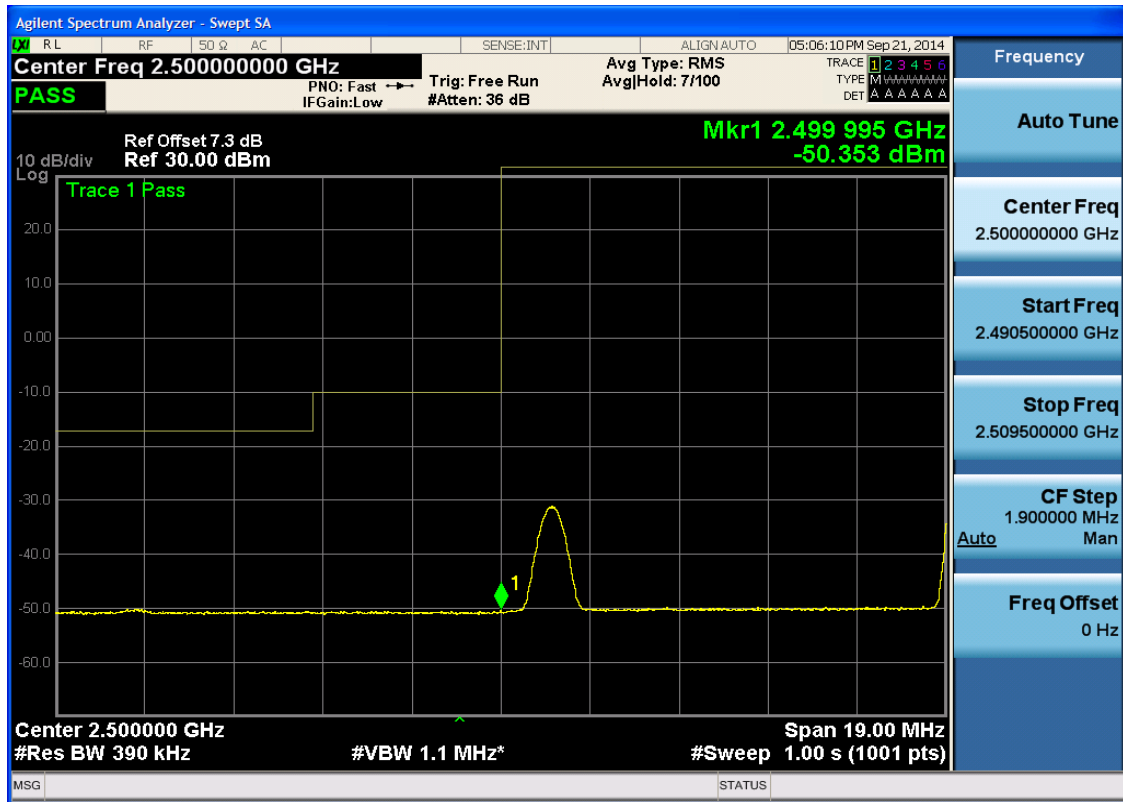
5.2.1.2.4.1 Test Channel = LCH

5.2.1.2.4.1.1 Test RB = RB1#0



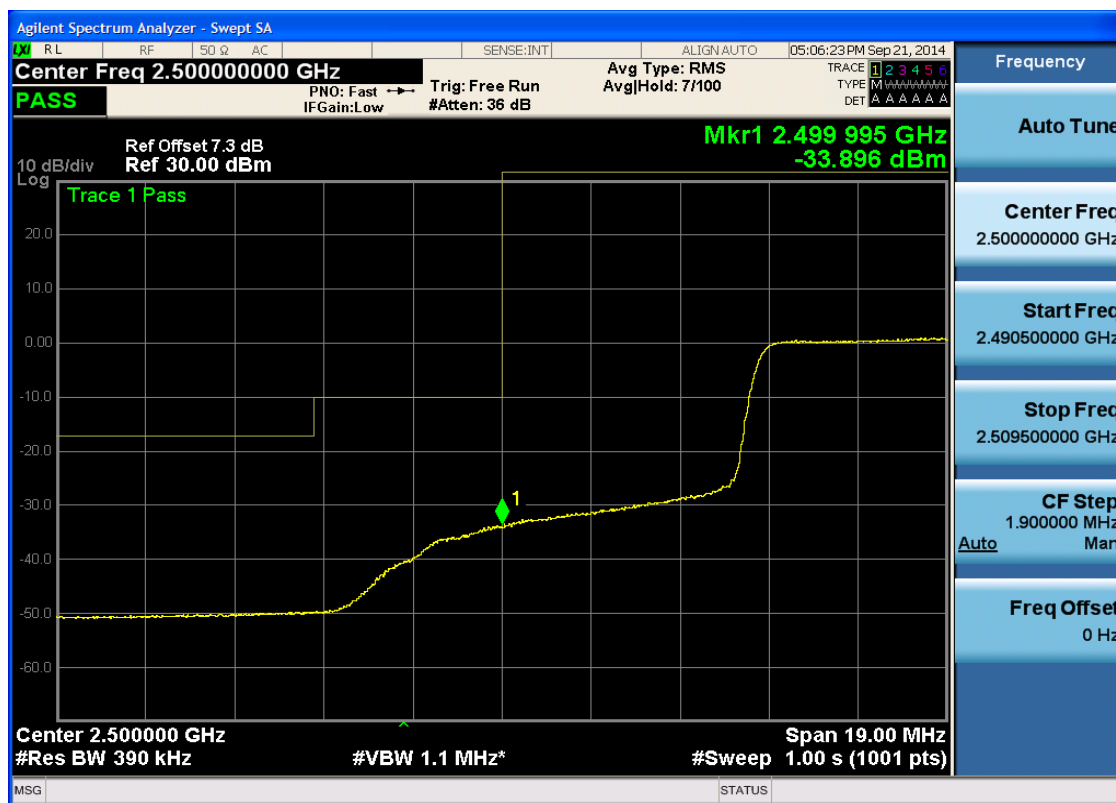


5.2.1.2.4.1.2 Test RB = RB1#99



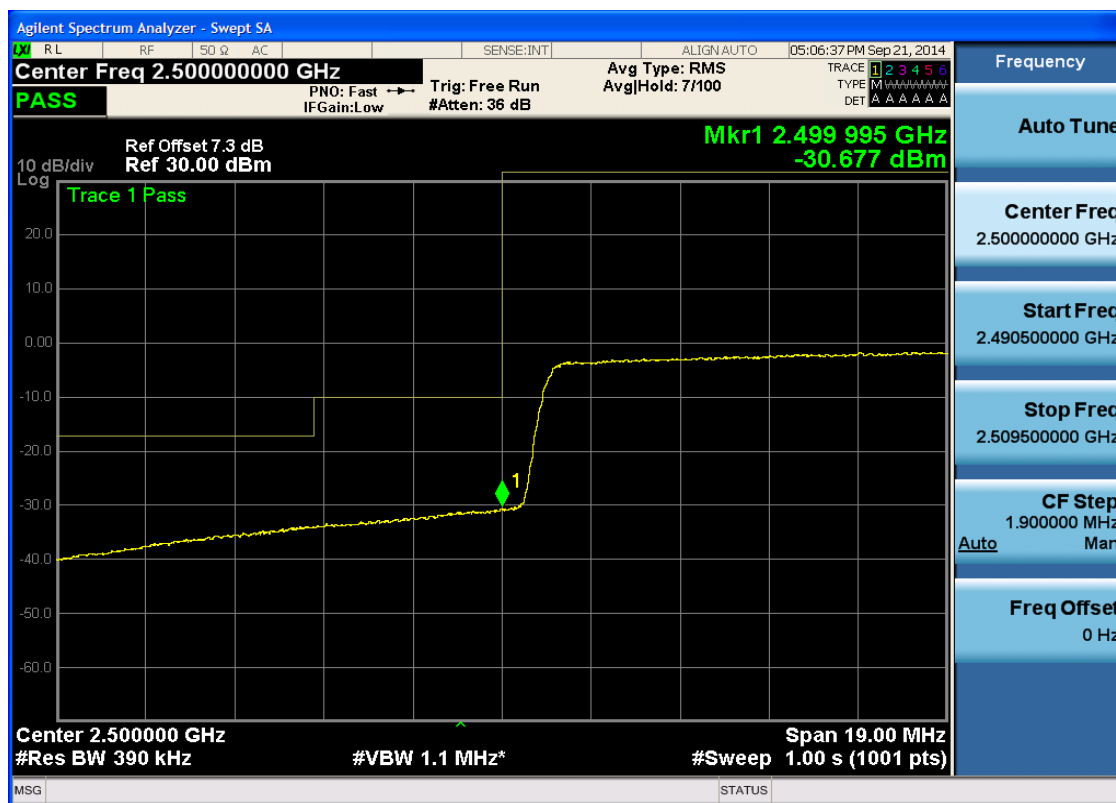


5.2.1.2.4.1.3 Test RB = RB50#25





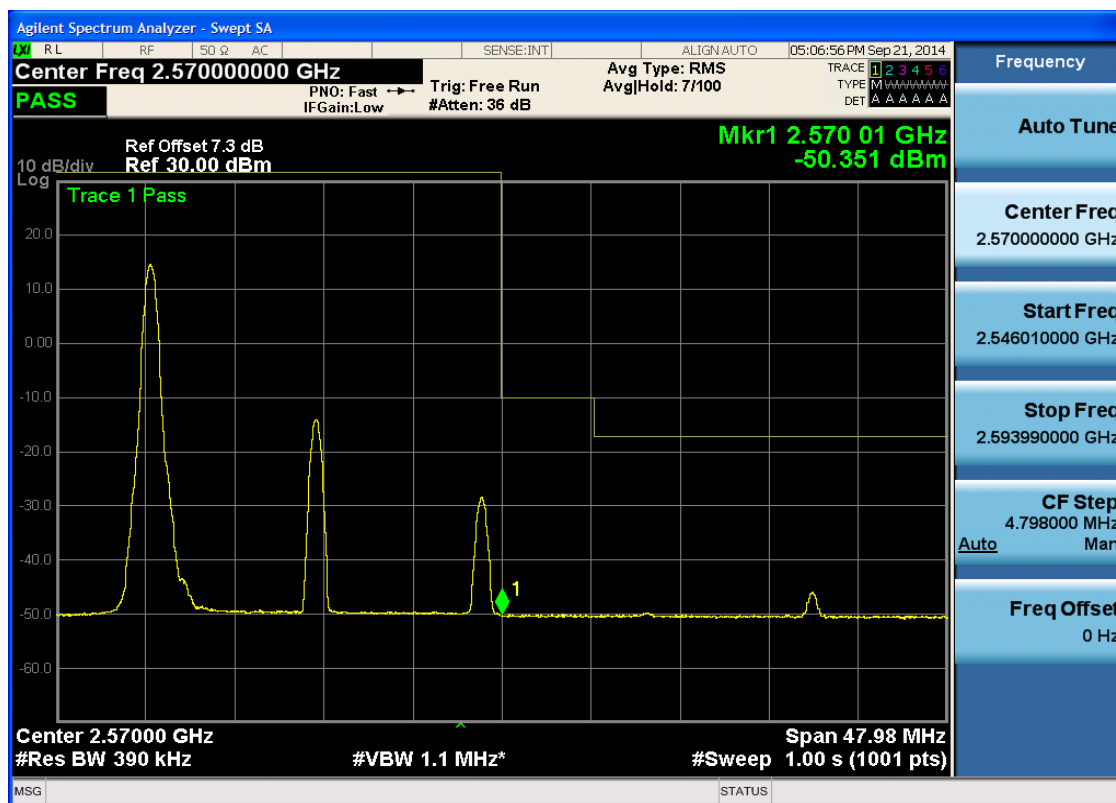
5.2.1.2.4.1.4 Test RB = RB100#0





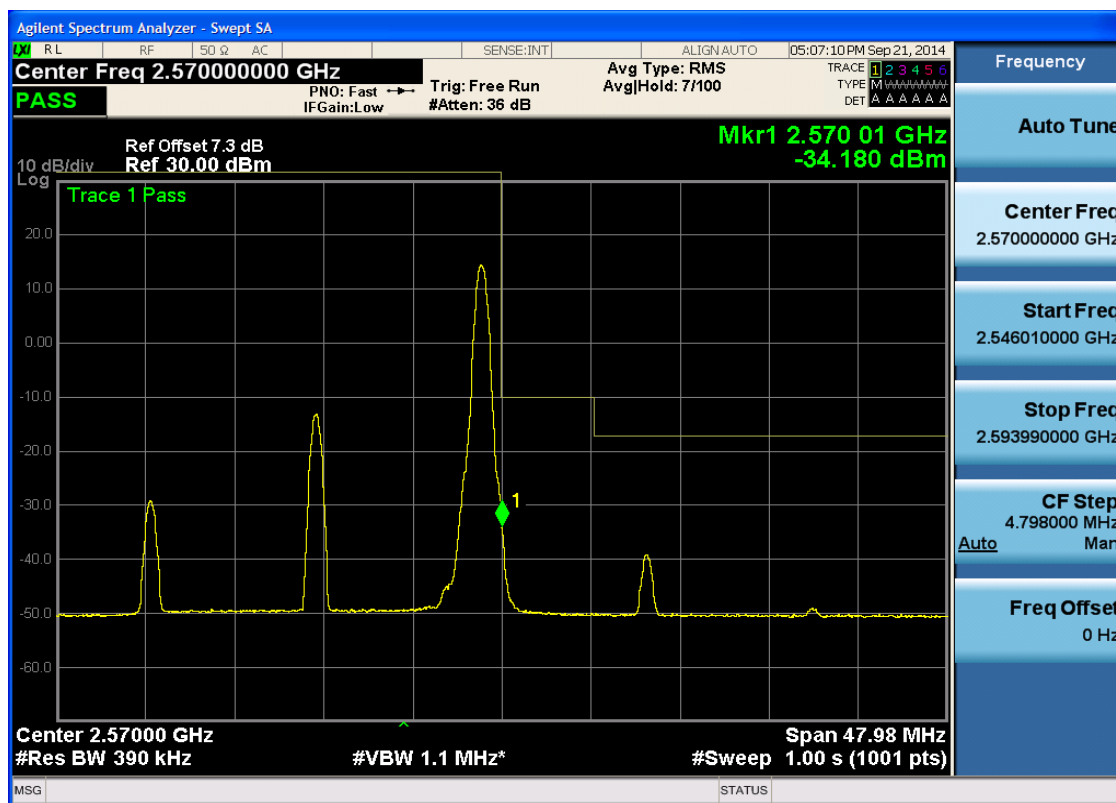
5.2.1.2.4.2 Test Channel = HCH

5.2.1.2.4.2.1 Test RB = RB1#0



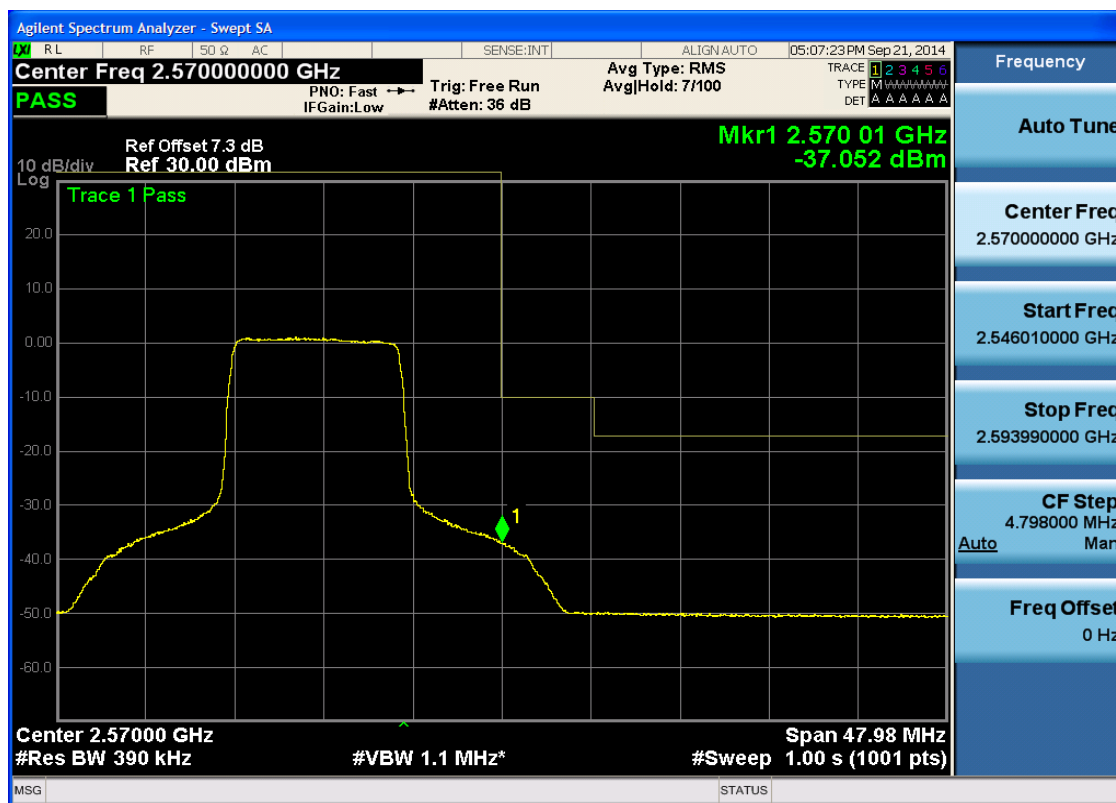


5.2.1.2.4.2.2 Test RB = RB1#99





5.2.1.2.4.2.3 Test RB = RB50#25





5.2.1.2.4.2.4 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.

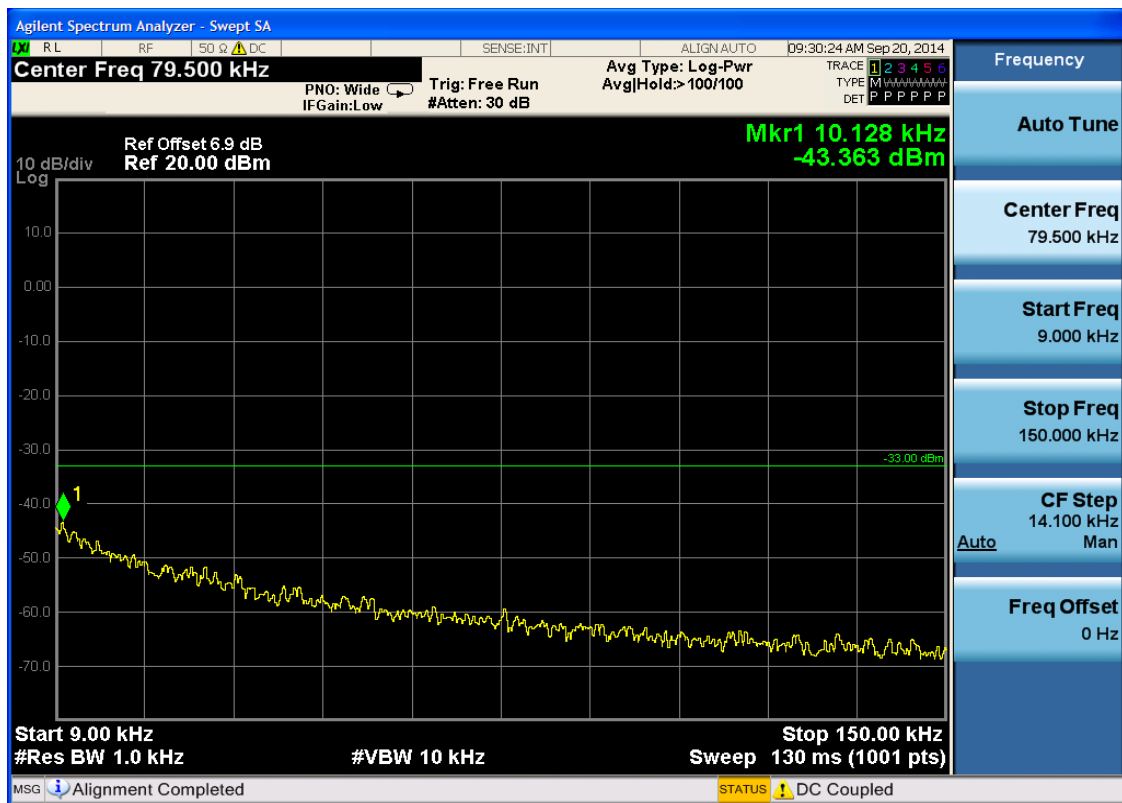
Part I - Test Plots

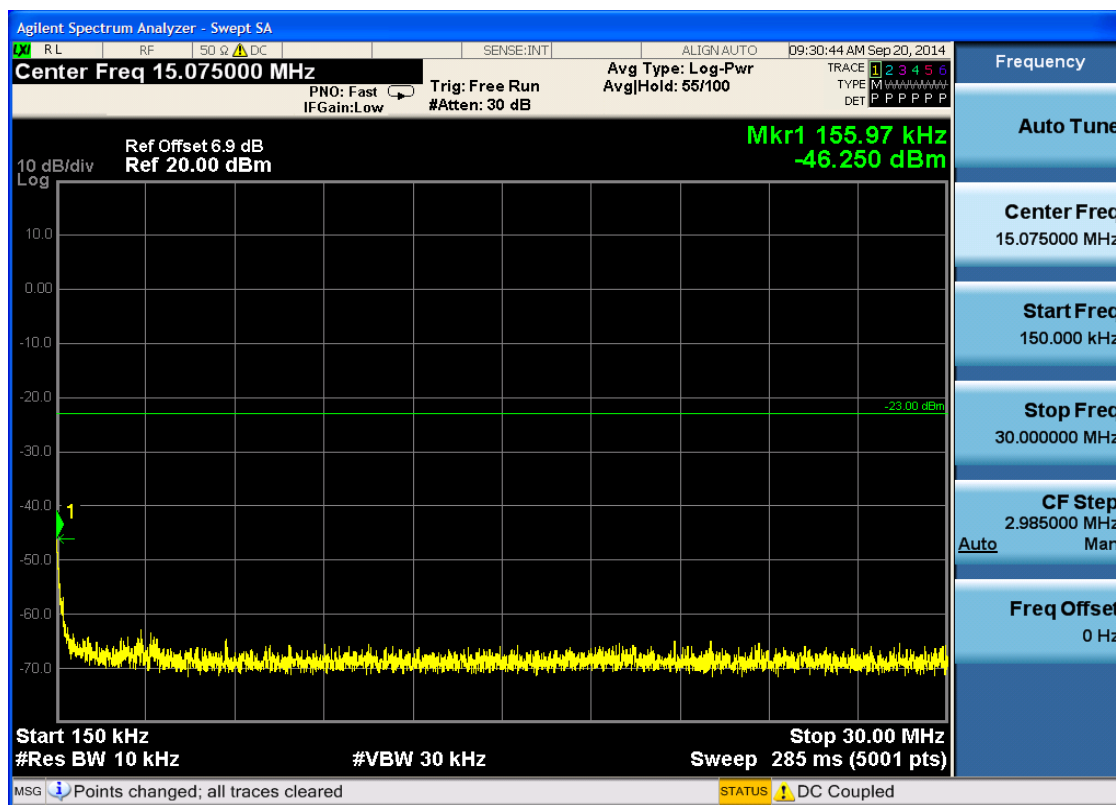
6.1 For GSM

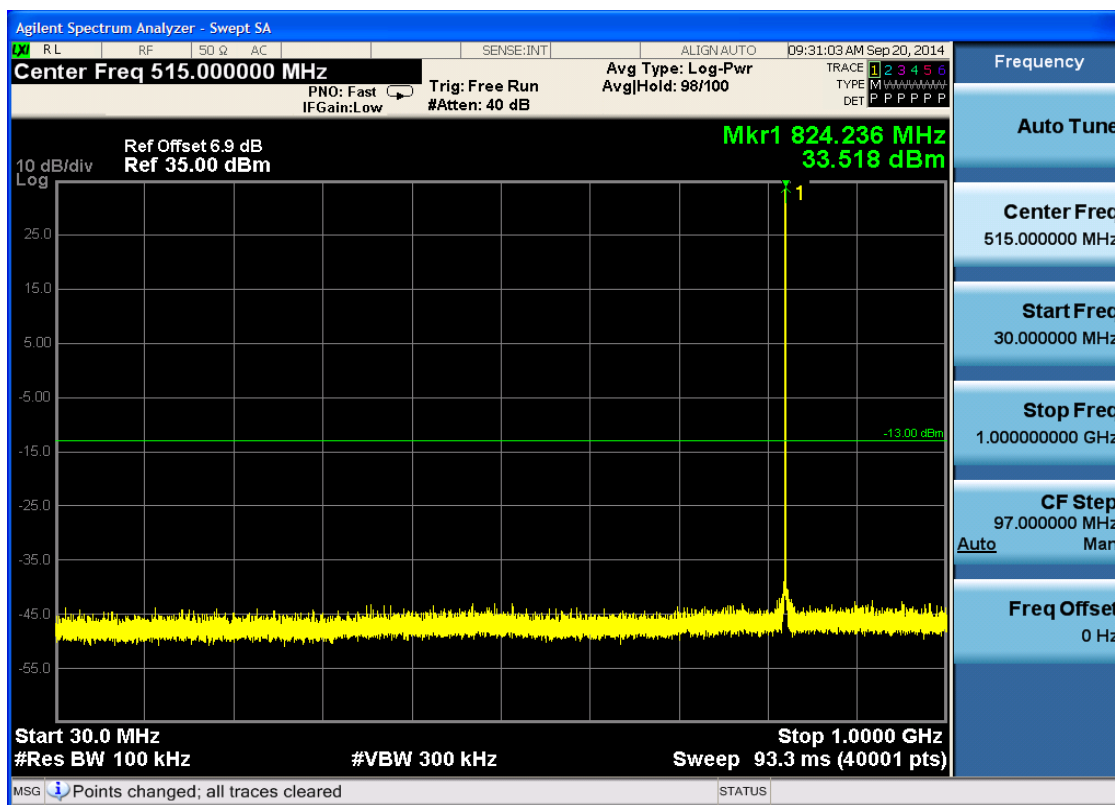
6.1.1 Test Band = GSM850

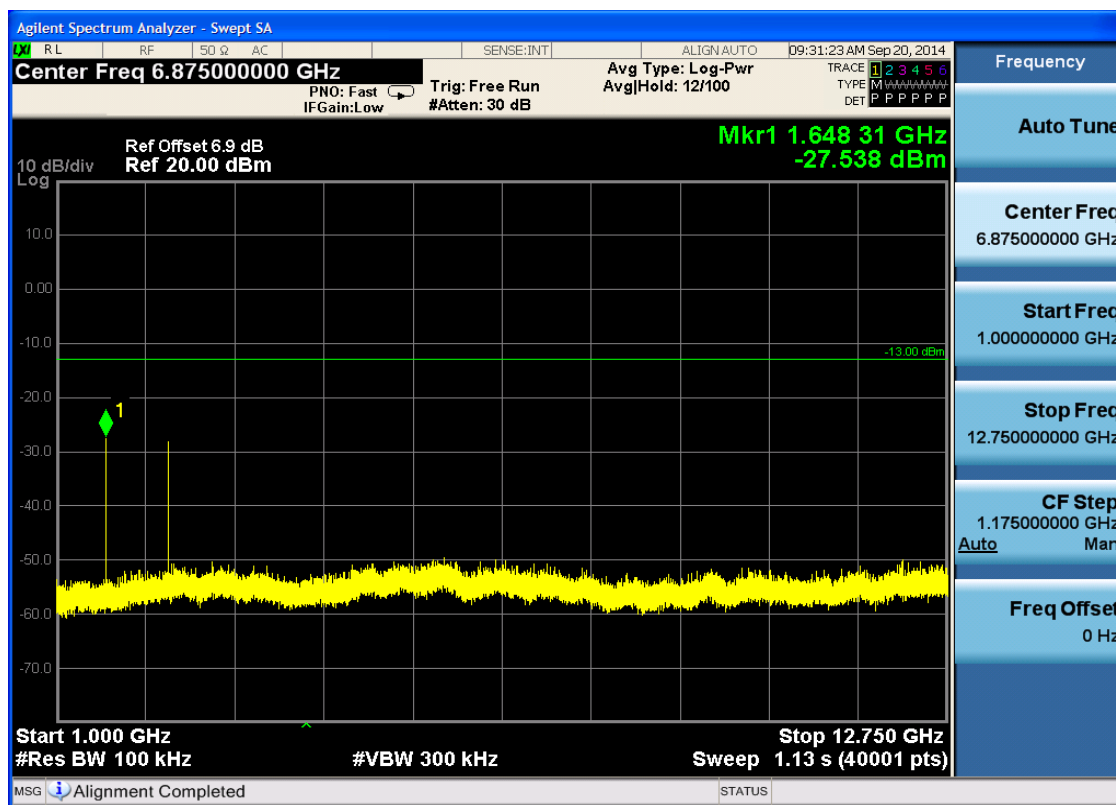
6.1.1.1 Test Mode = GSM/TM1

6.1.1.1.1 Test Channel = LCH



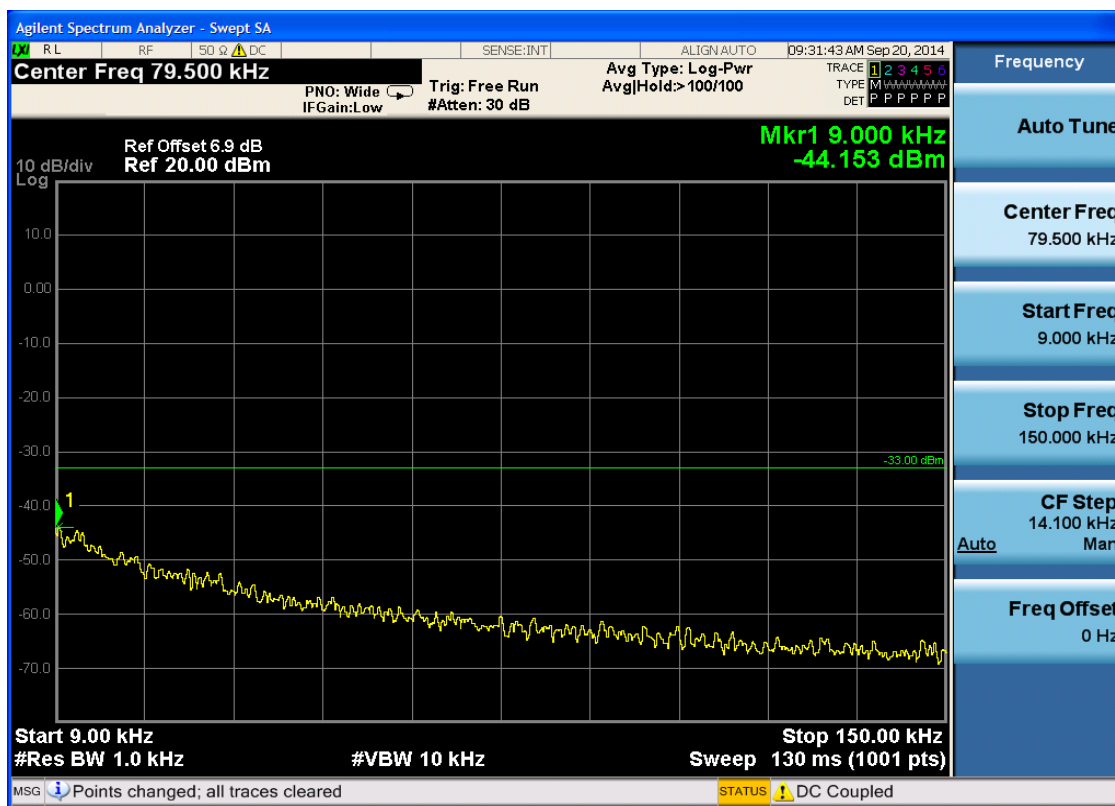


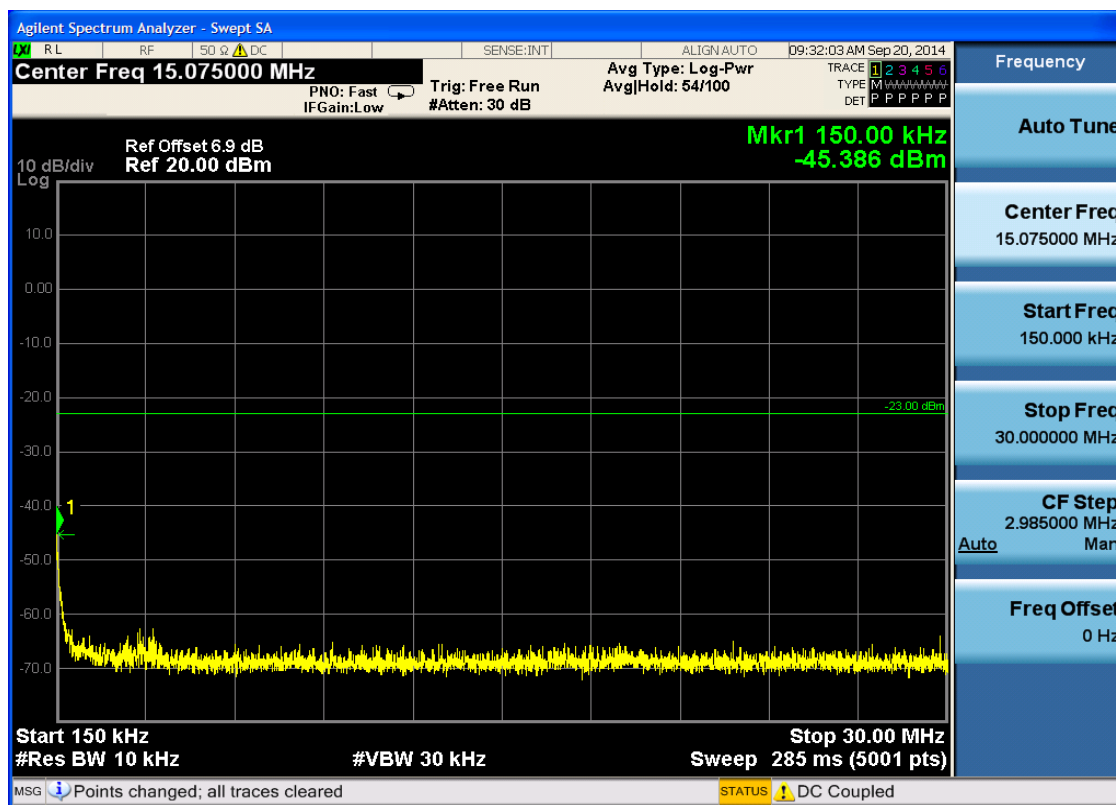


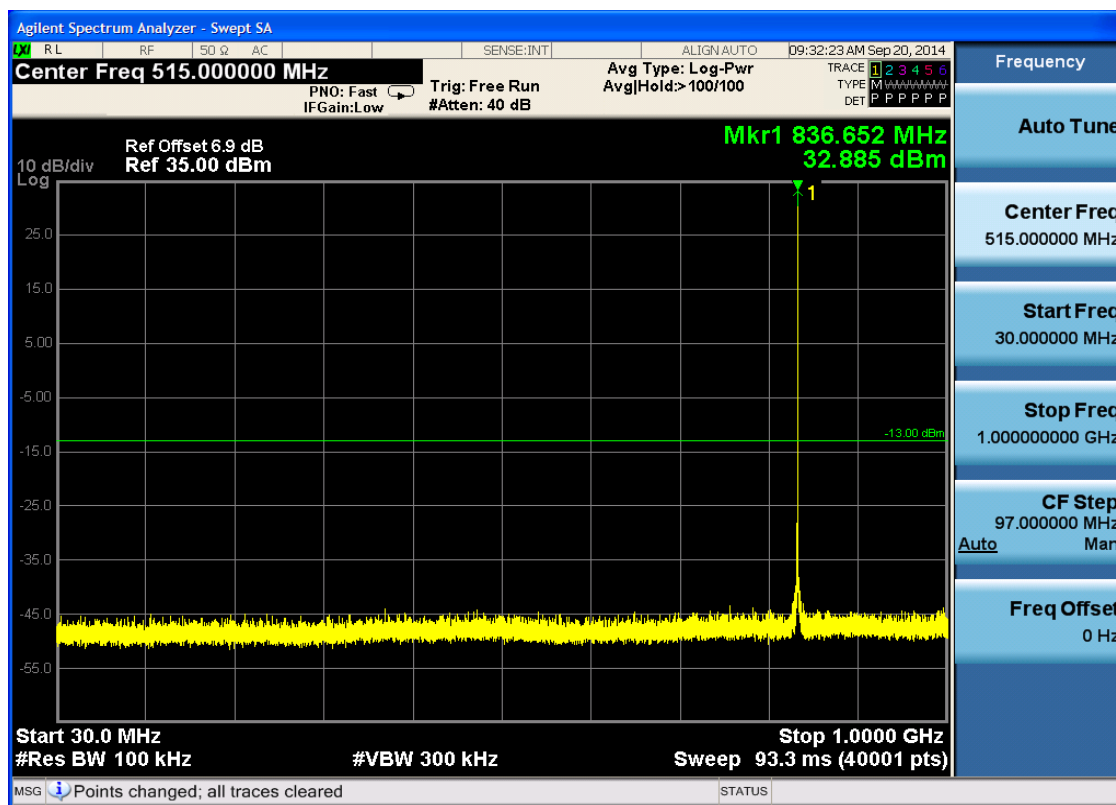


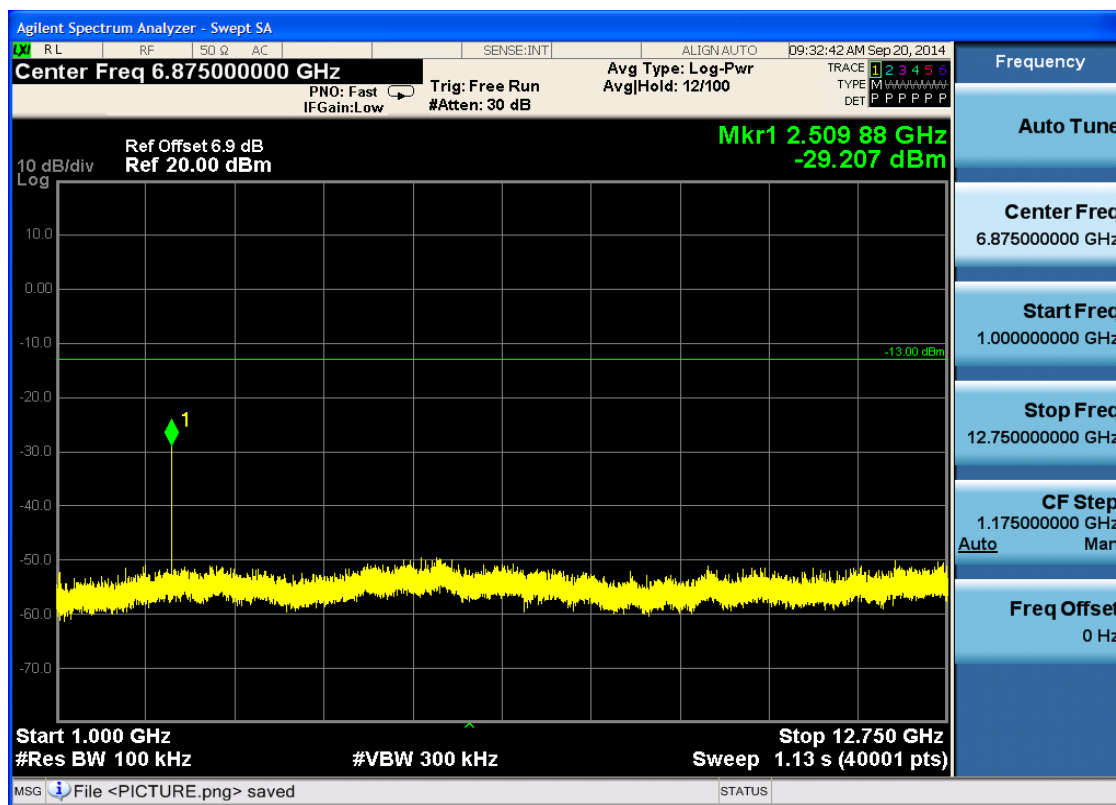


6.1.1.1.2 Test Channel = MCH



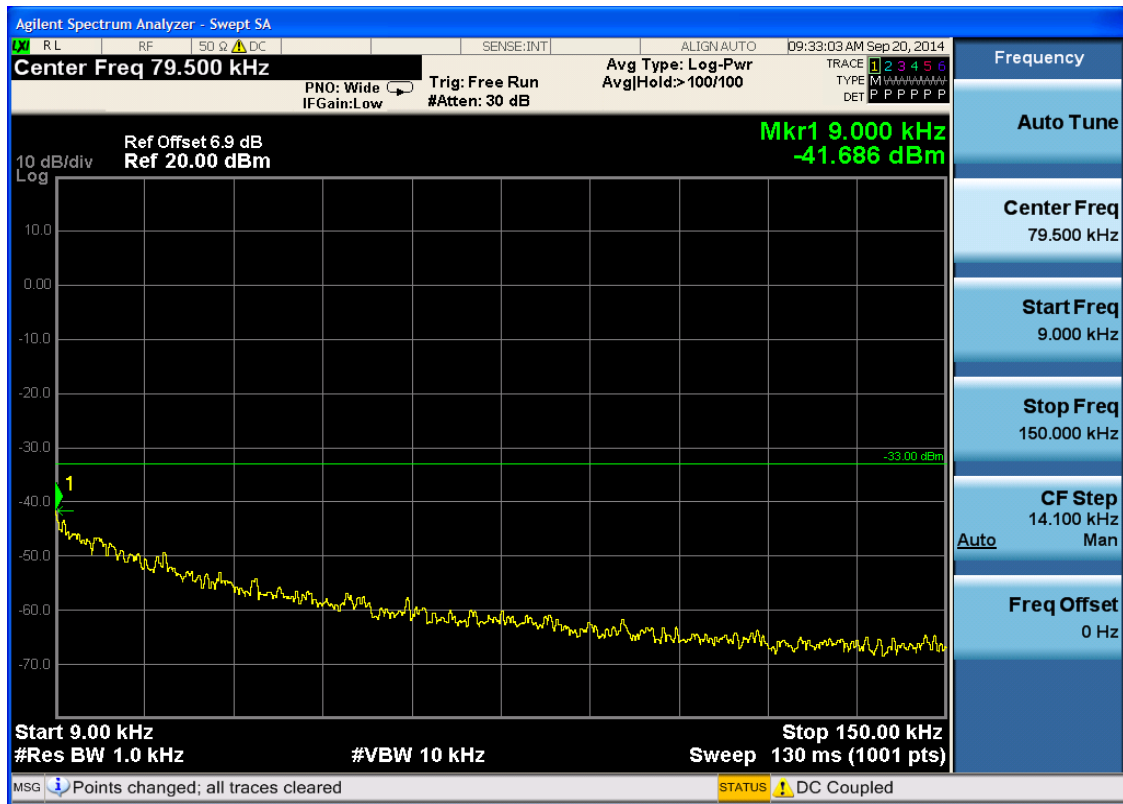


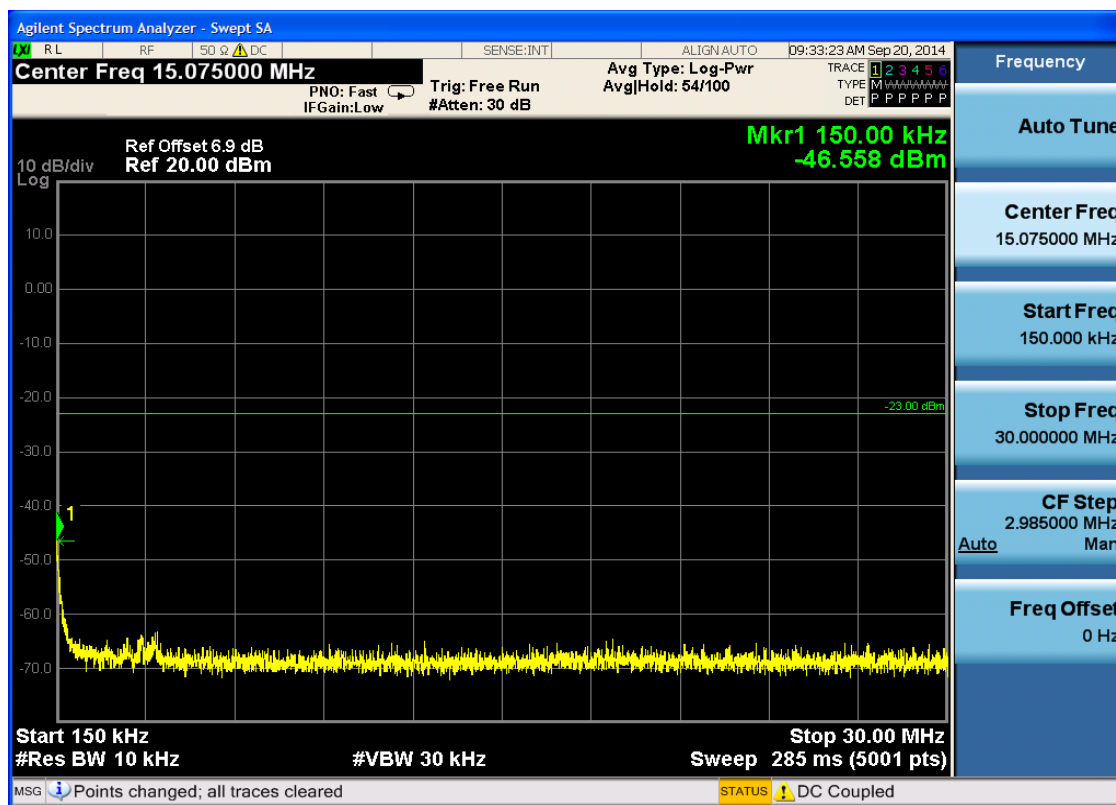


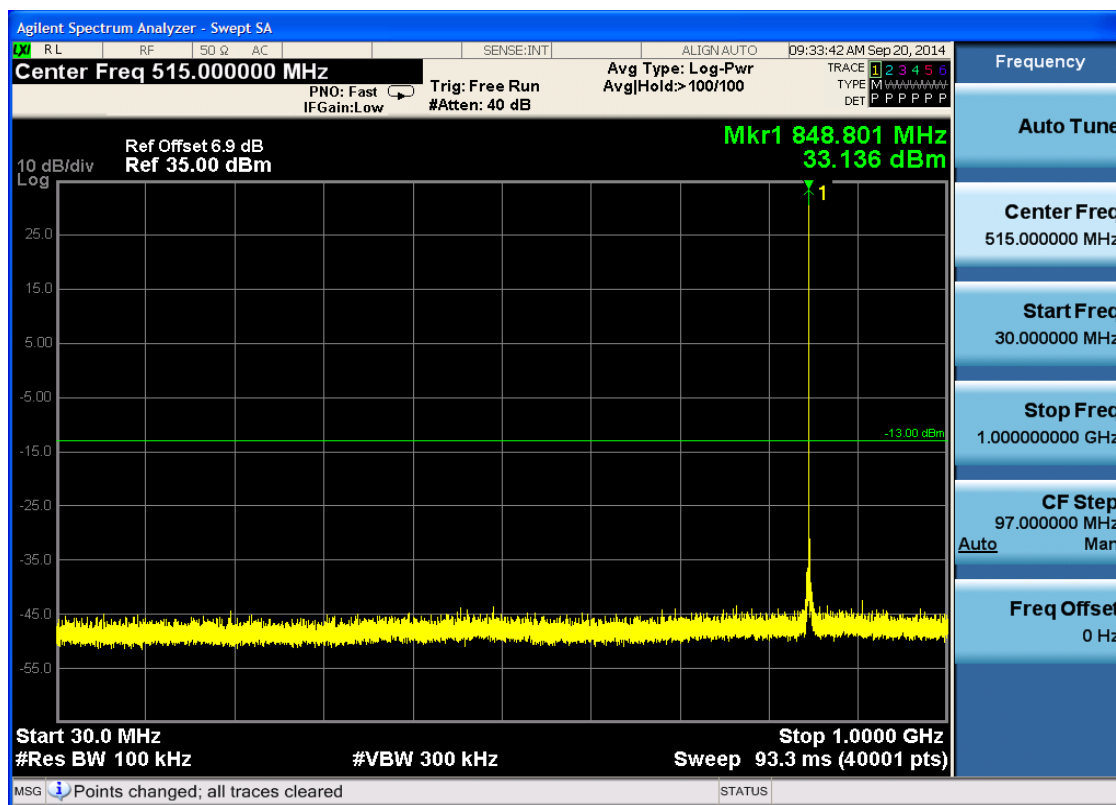


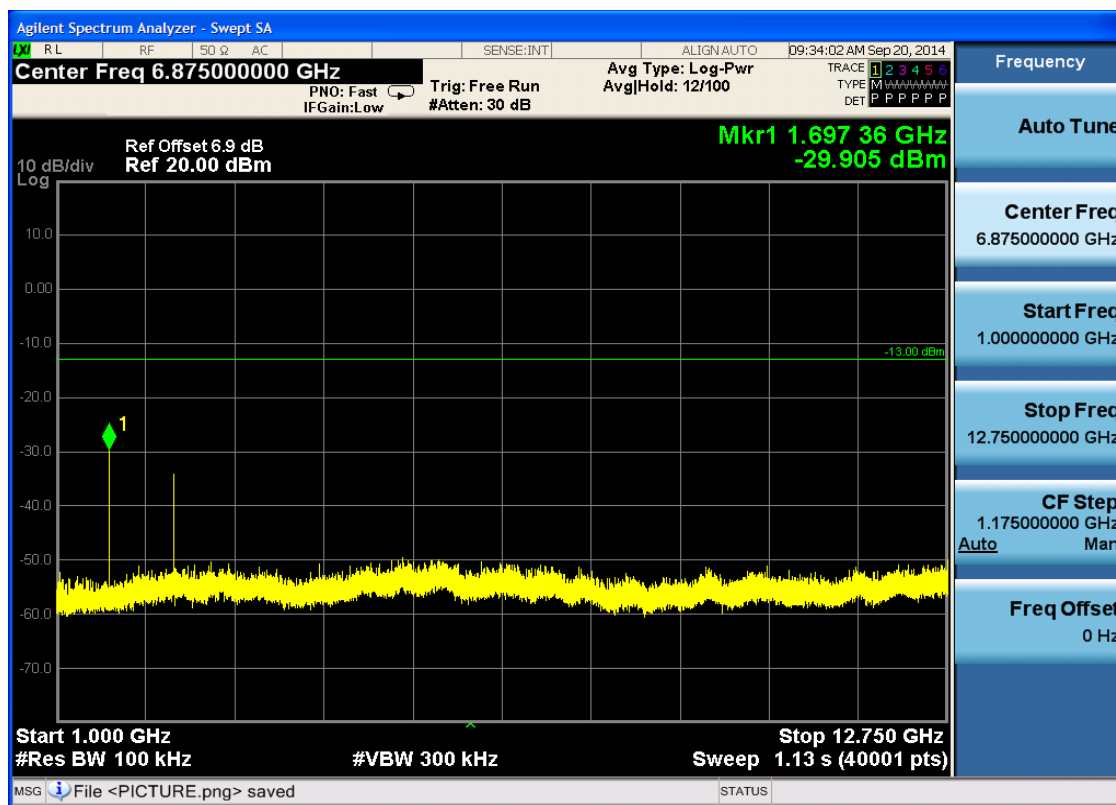


6.1.1.1.3 Test Channel = HCH





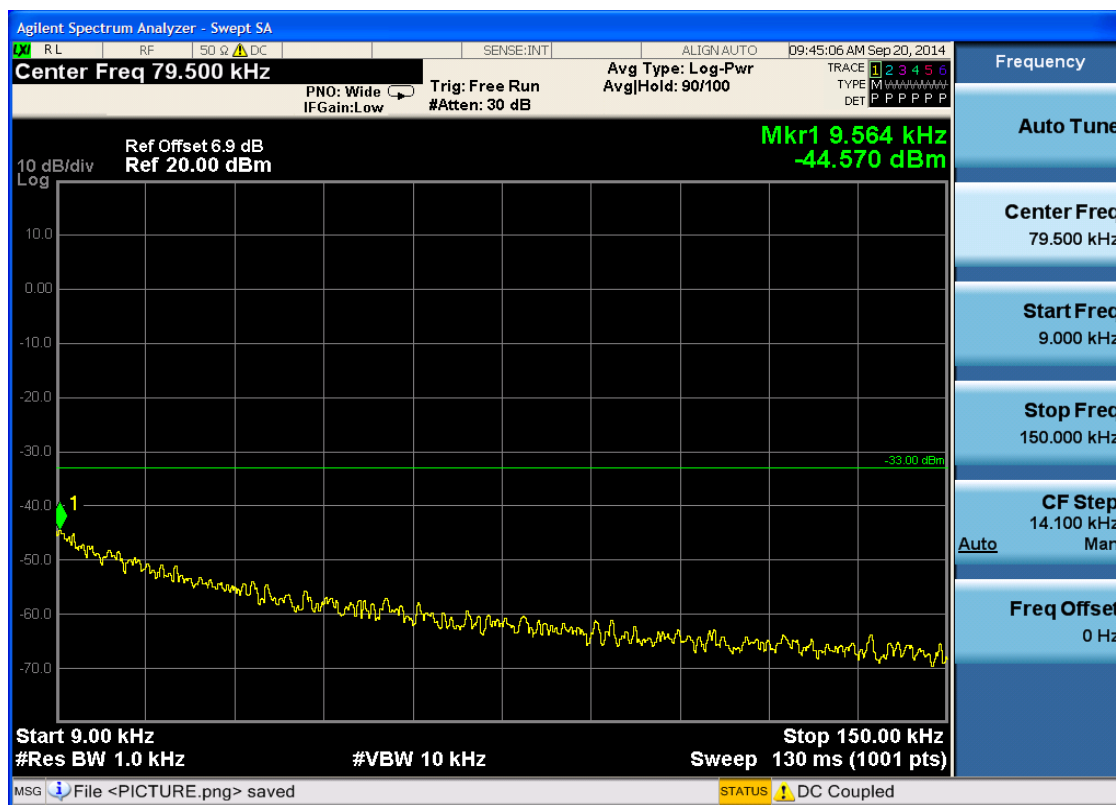


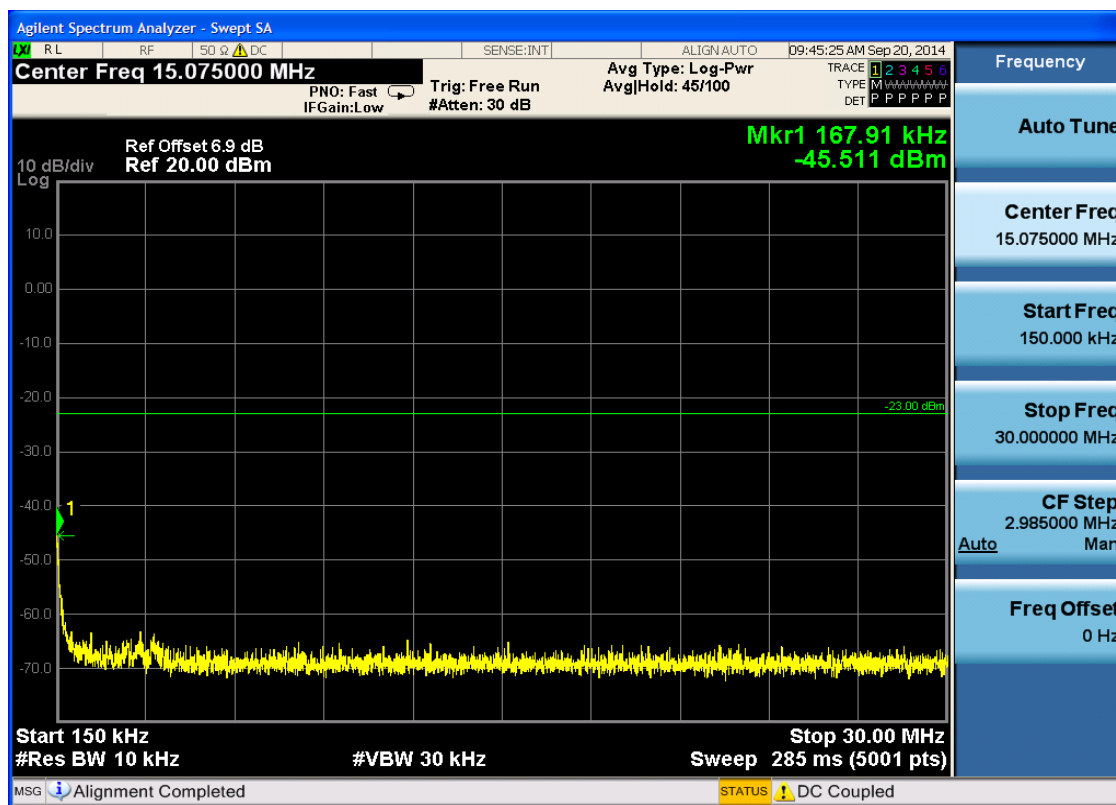


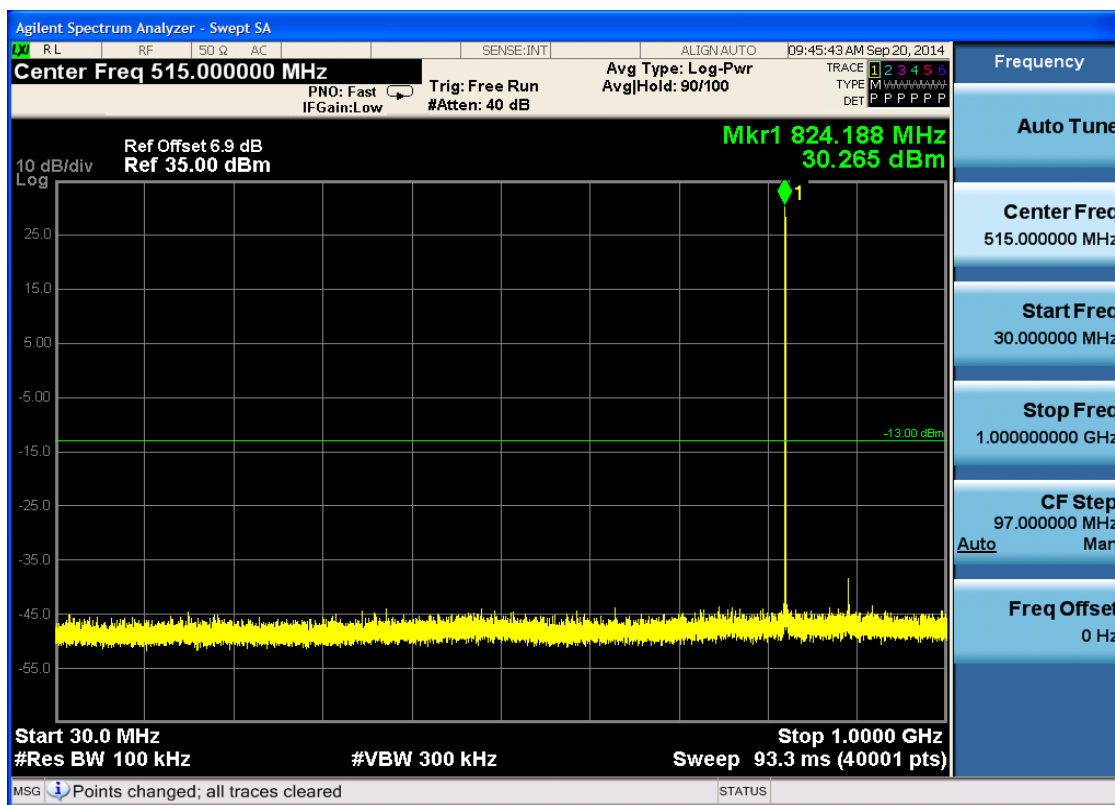


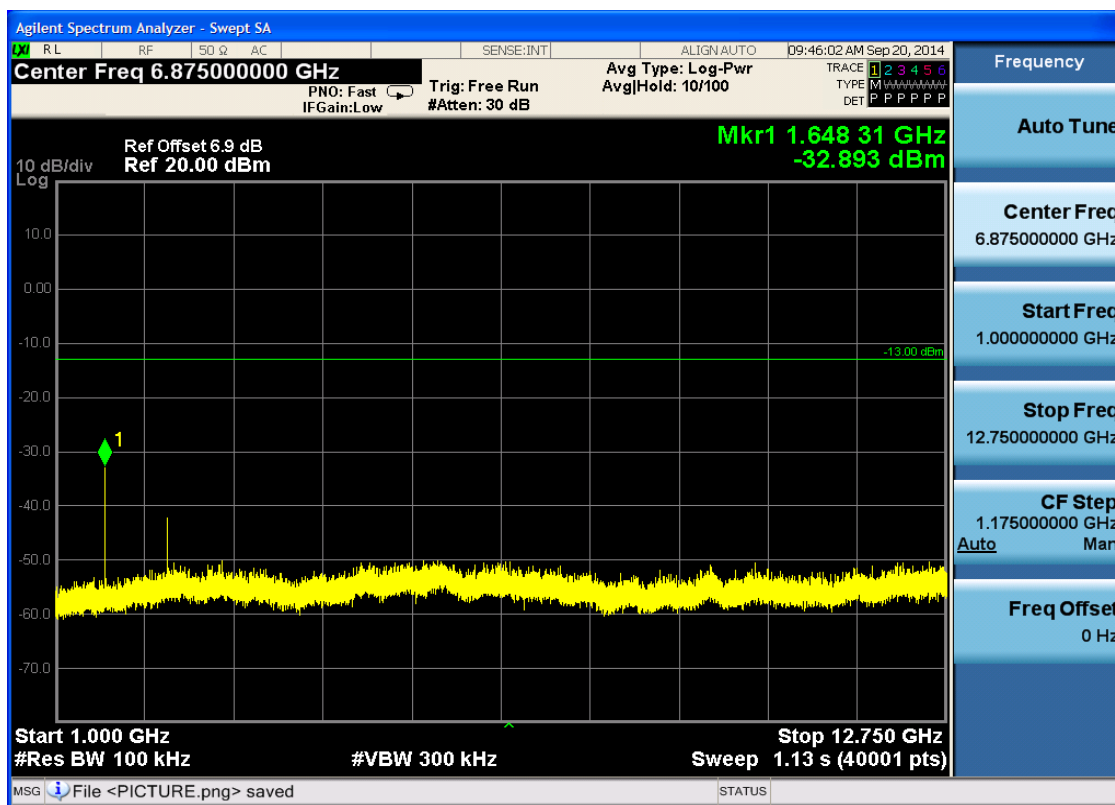
6.1.1.2 Test Mode = GSM/TM2

6.1.1.2.1 Test Channel = LCH











Agilent Spectrum Analyzer - Swept SA

☒ R.L. RF 50.0 DC SENSE:INT ALIGN:AUTO 09:46:22 AM Sep 20, 2014

Center Freq 79.500 kHz

PNO: Wide Trig: Free Run Avg Type: Log-Pwr
 IFGain: Low #Atten: 30 dB Avg/Hold: 90/100

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

Ref Offset 6.9 dB
 Ref 20.00 dBm

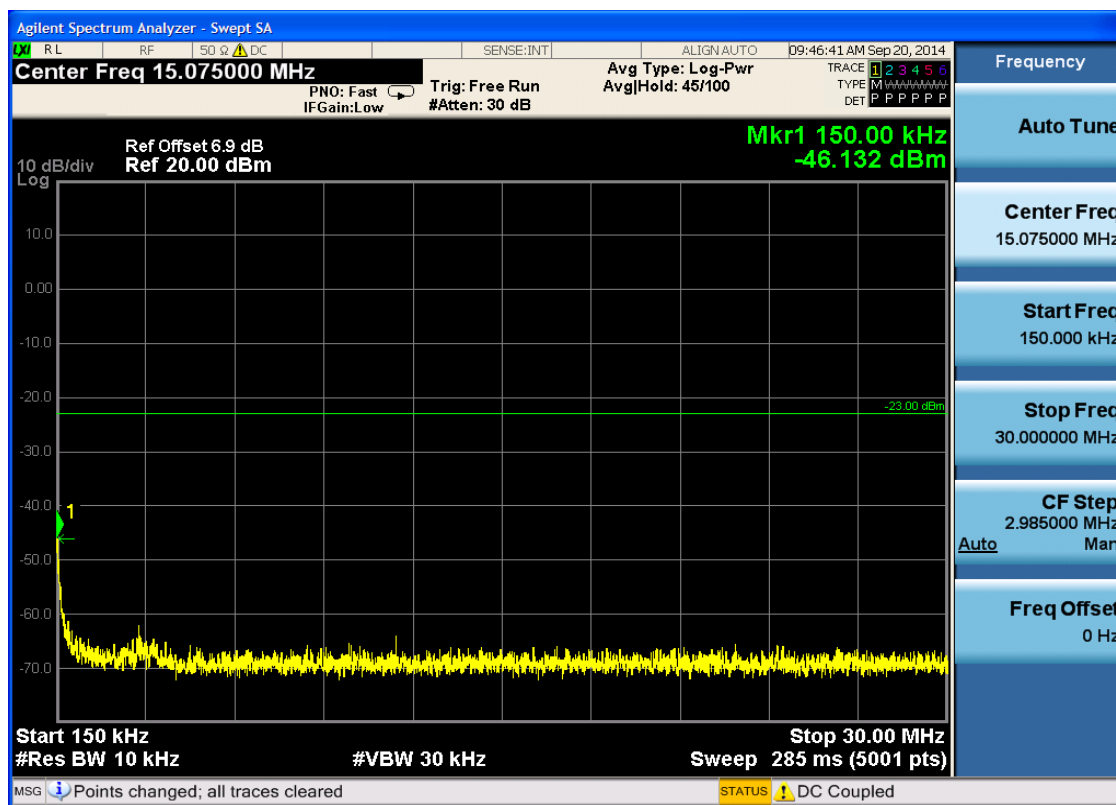
Mkr1 9.000 kHz
-43.391 dBm

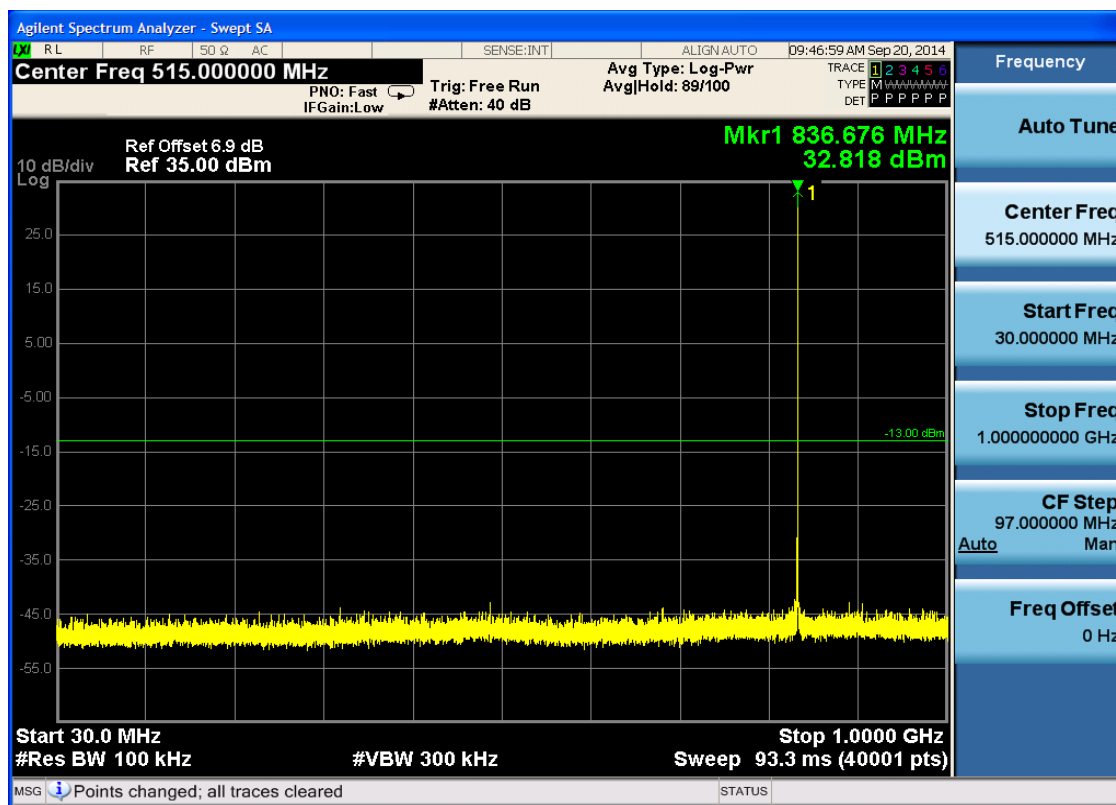
10 dB/div
Log

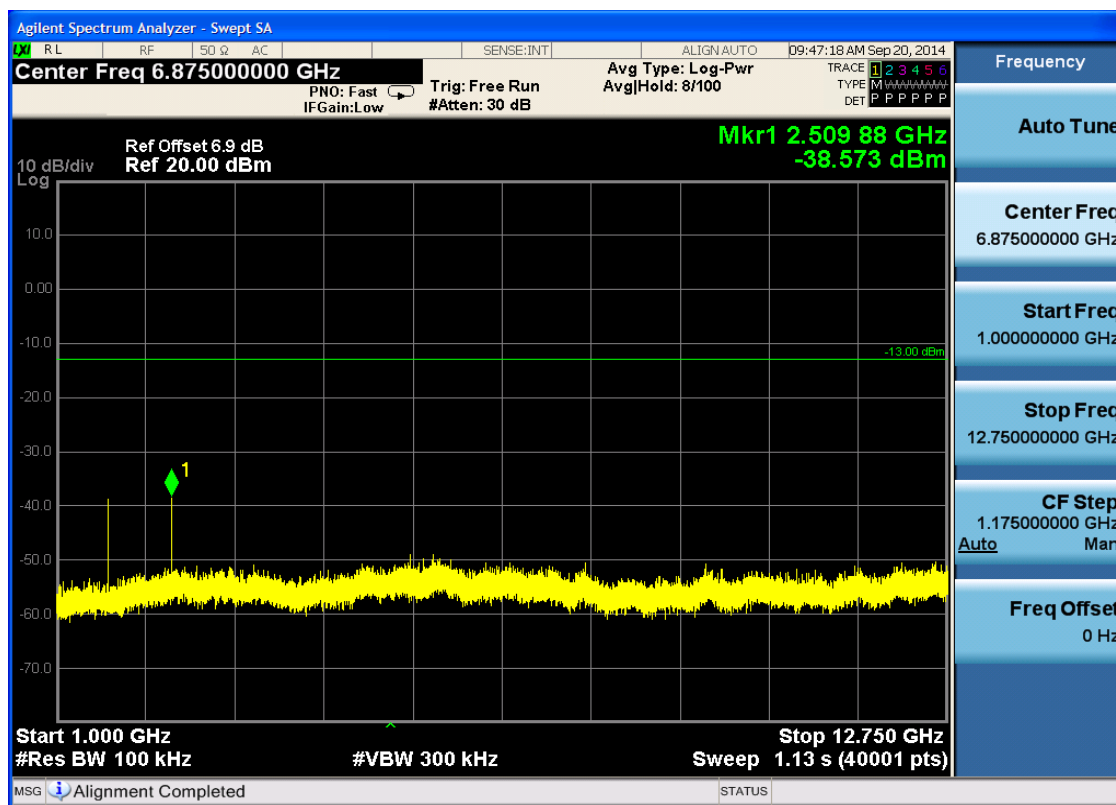
Start 9.00 kHz Stop 150.00 kHz
 #Res BW 1.0 kHz #VBW 10 kHz Sweep 130 ms (1001 pts)

MSG Points changed; all traces cleared STATUS DC Coupled

Frequency
 Auto Tune
 Center Freq
 79.500 kHz
 Start Freq
 9.000 kHz
 Stop Freq
 150.000 kHz
 CF Step
 14.100 kHz
 Auto Man
 Freq Offset
 0 Hz

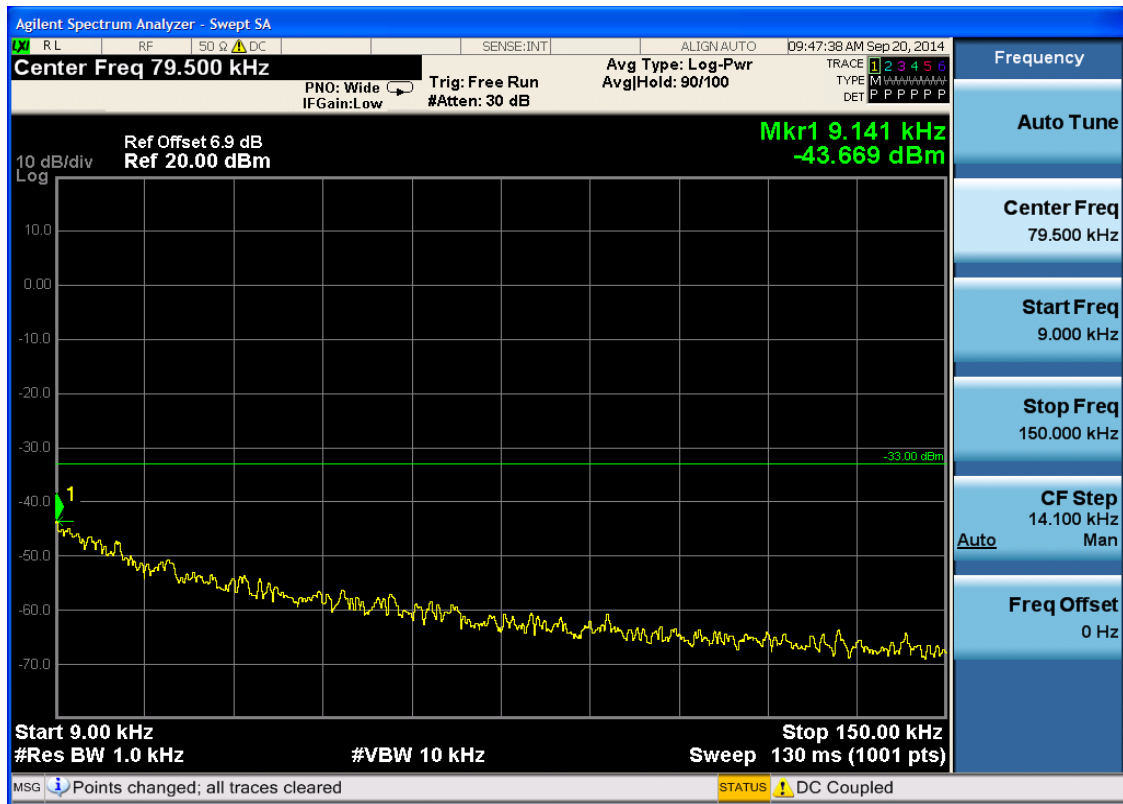


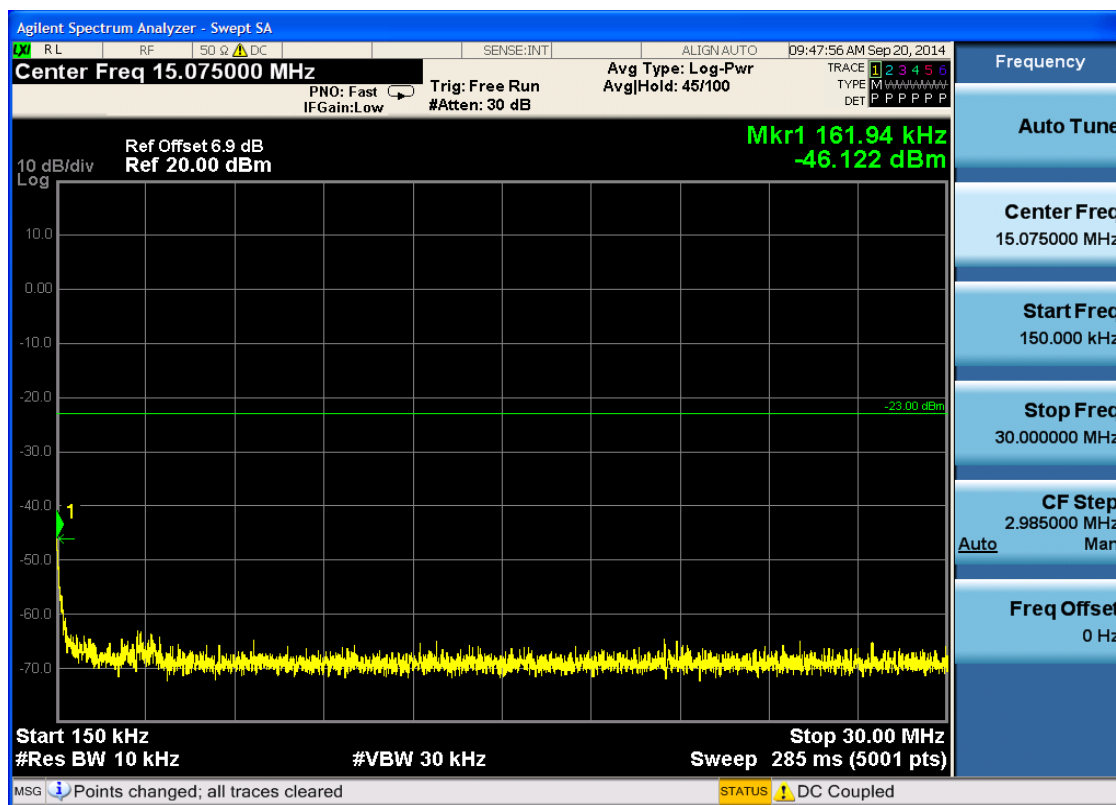


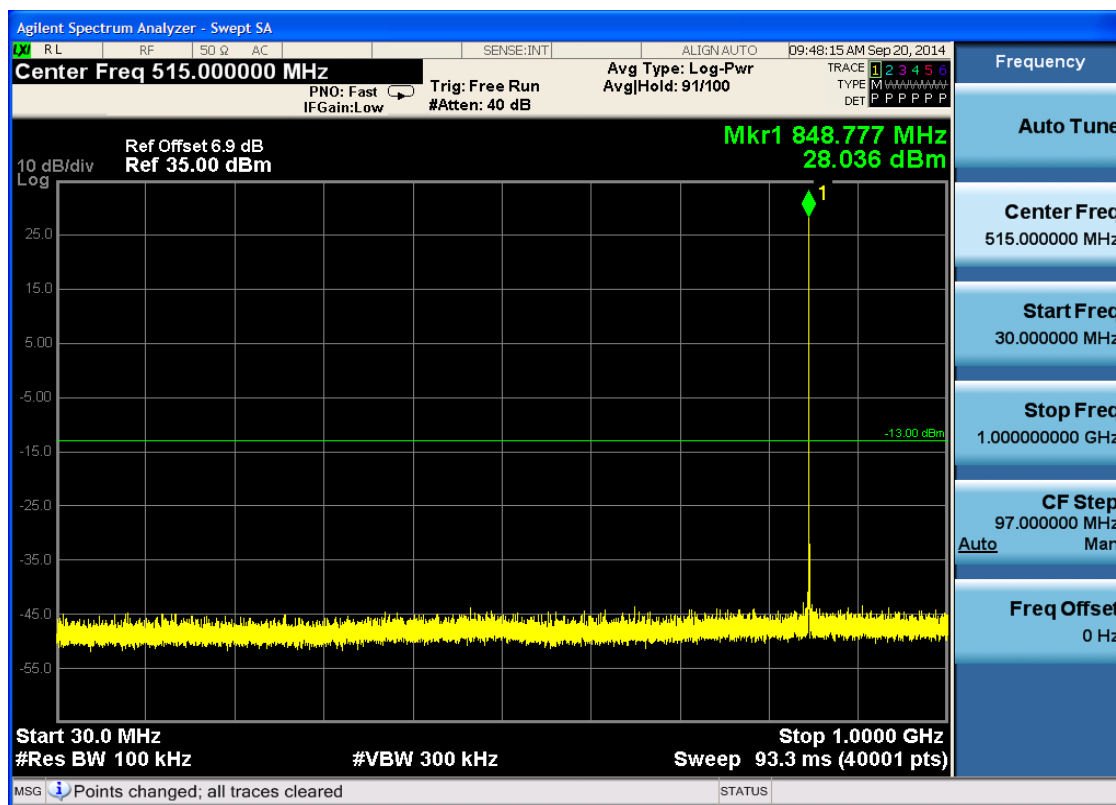


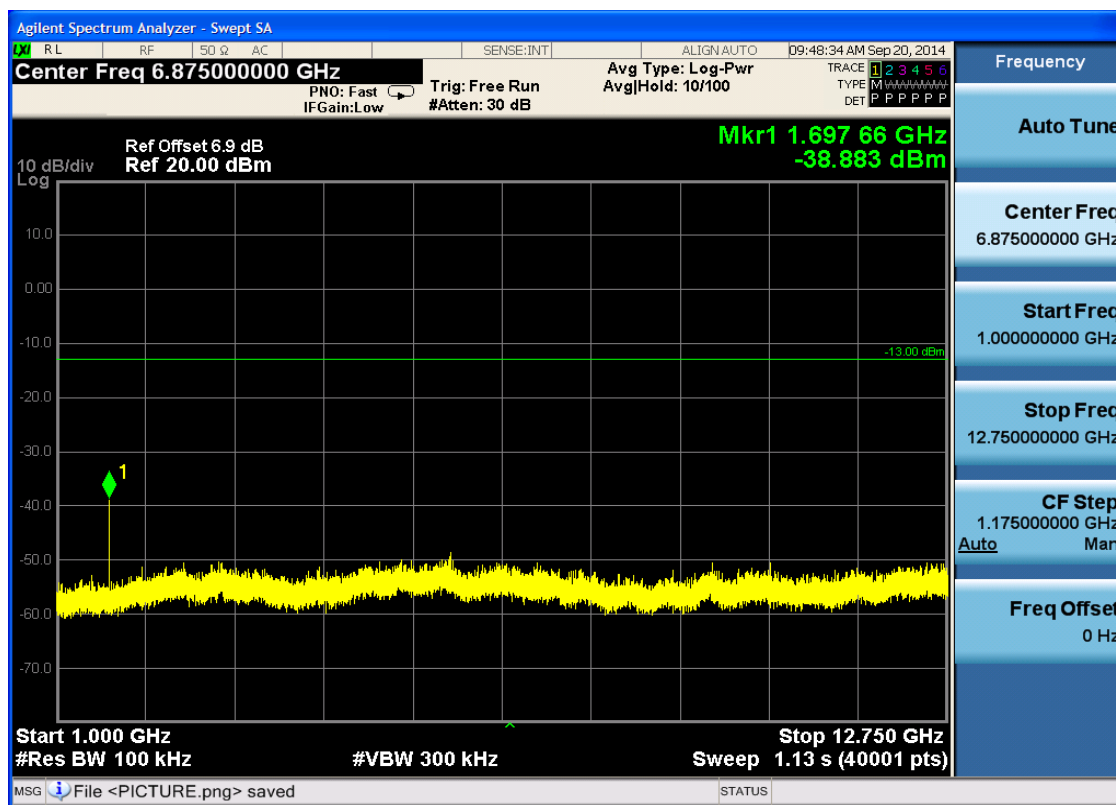


6.1.1.2.3 Test Channel = HCH







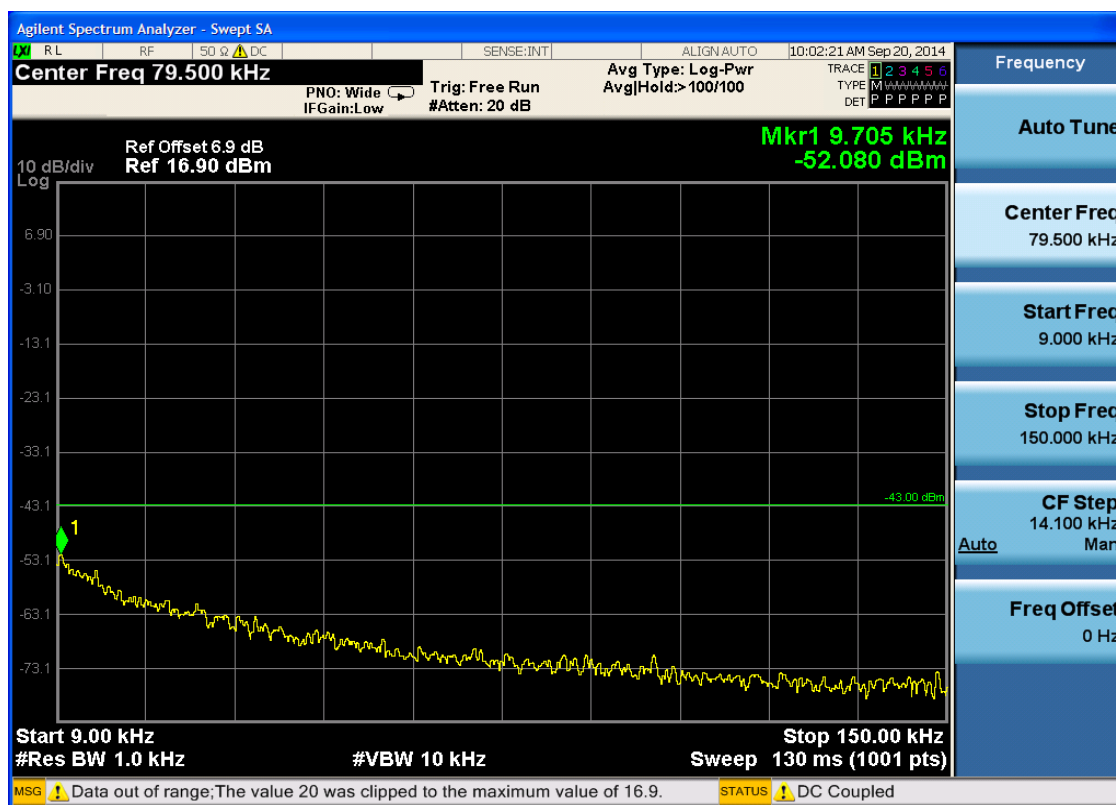


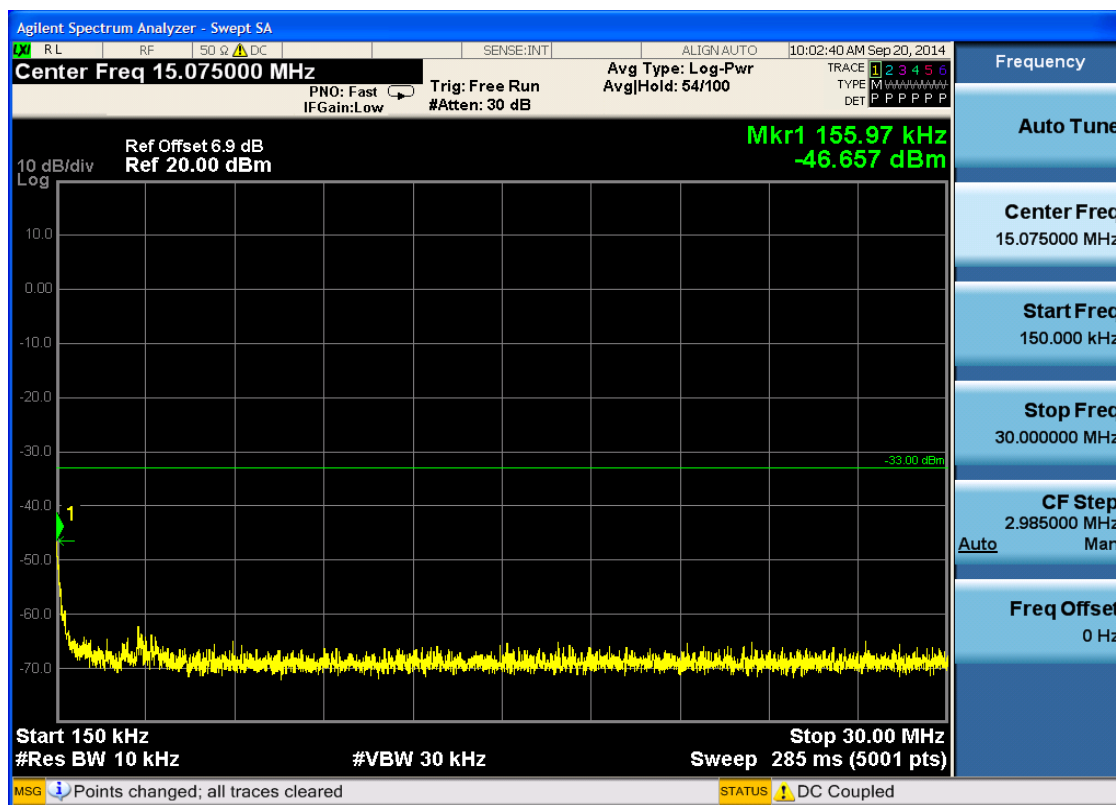


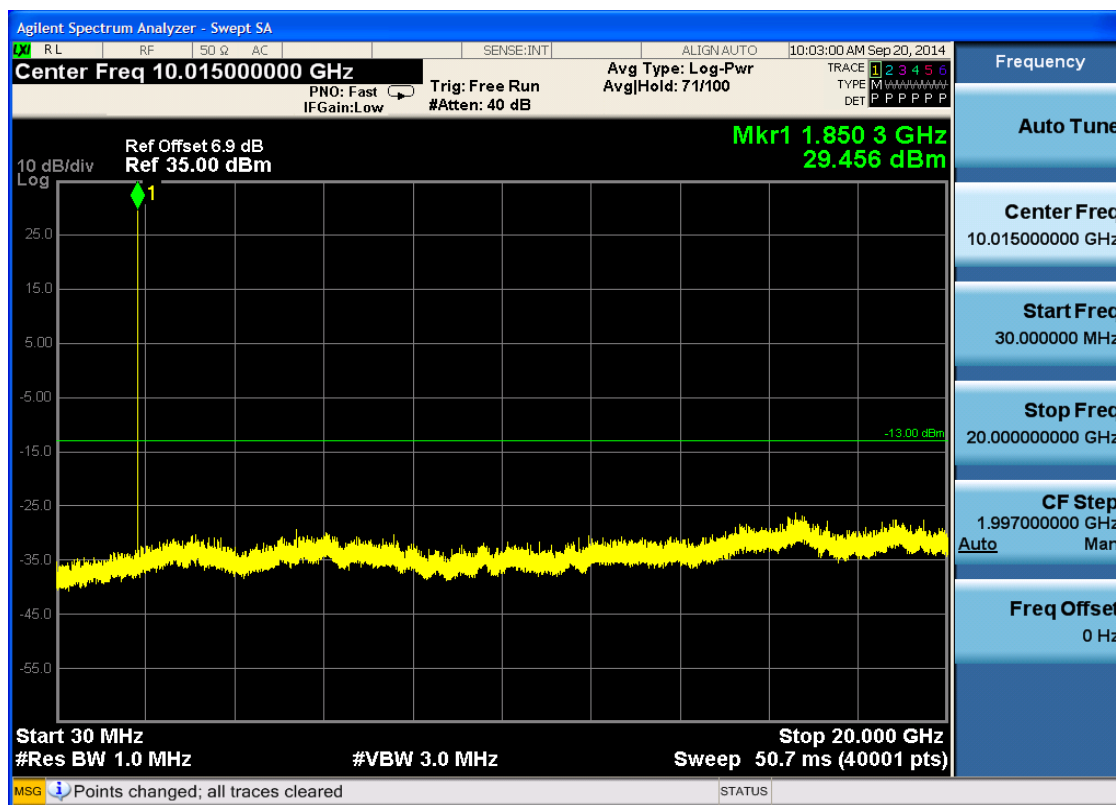
6.1.2 Test Band = GSM1900

6.1.2.1 Test Mode = GSM/TM1

6.1.2.1.1 Test Channel = LCH









Agilent Spectrum Analyzer - Swept SA

R/L RF 50.0 DC SENSE:INT ALIGN:AUTO 10:03:21 AM Sep 20, 2014

Center Freq 79.500 kHz PNO: Wide Trg: Free Run Avg Type: Log-Pwr Avg/Hold: > 100/100

IF Gain: Low #Atten: 20 dB TRACE 1 2 3 4 5 6 TYPE M M M M M M M M DET P P P P P P

Ref Offset 6.9 dB Mkr1 9.000 kHz
Ref 16.90 dBm -52.098 dBm

10 dB/div Log

6.90
-3.10
-13.1
-23.1
-33.1
-43.1
-53.1
-63.1
-73.1

Start 9.00 kHz Stop 150.00 kHz
#Res BW 1.0 kHz #VBW 10 kHz Sweep 130 ms (1001 pts)

MSG Points changed; all traces cleared STATUS DC Coupled

Frequency

Auto Tune

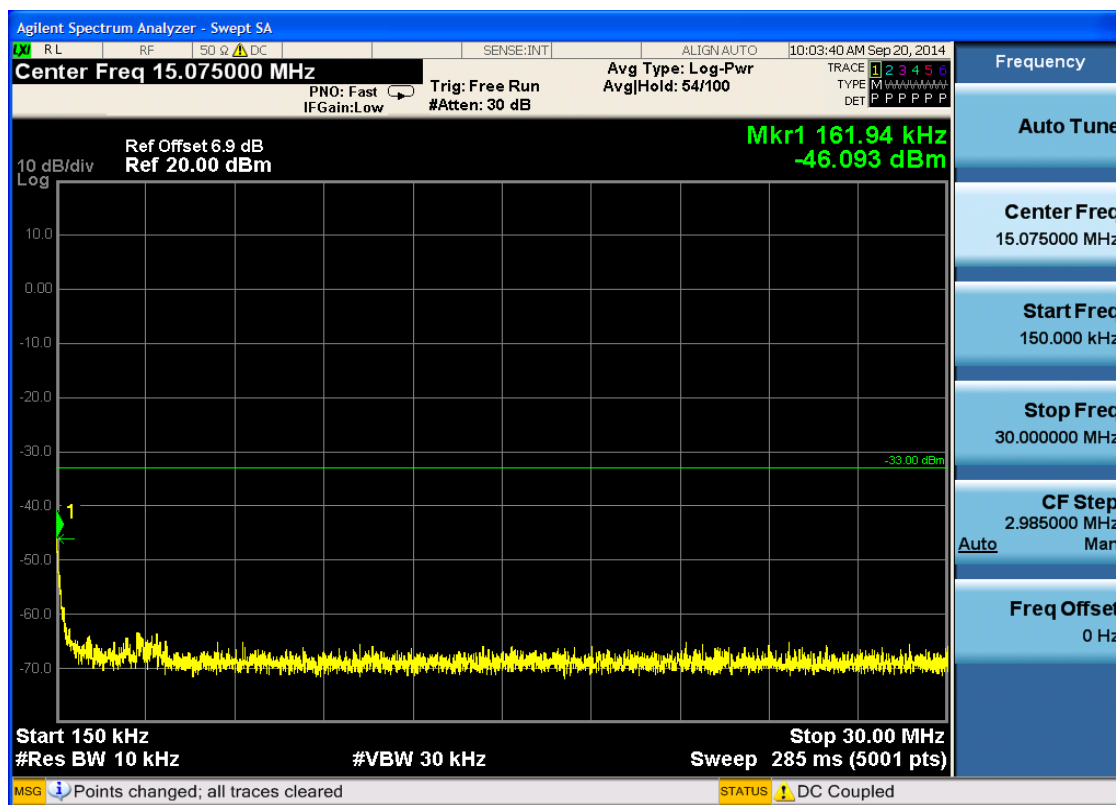
Center Freq
79.500 kHz

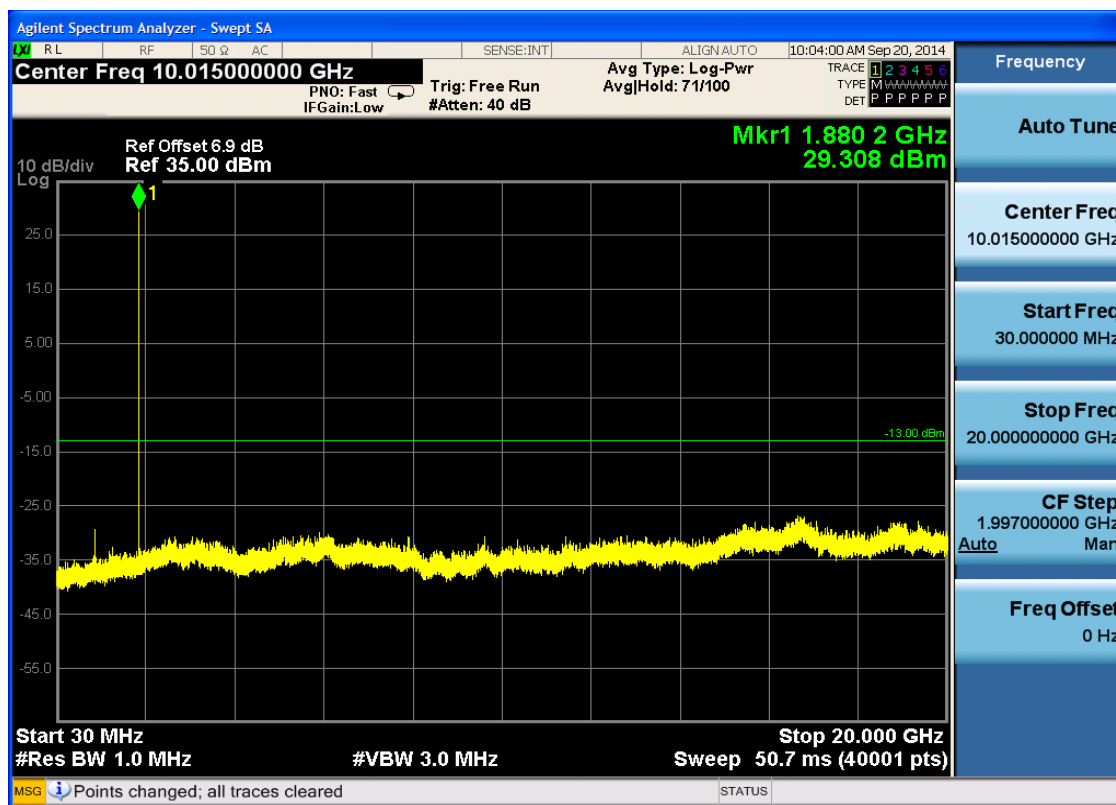
Start Freq
9.000 kHz

Stop Freq
150.000 kHz

CF Step
14.100 kHz
Auto Man

Freq Offset
0 Hz







Agilent Spectrum Analyzer - Swept SA

Center Freq 79.500 kHz

PNO: Wide IF Gain: Low Trig: Free Run #Atten: 20 dB

Avg Type: Log-Pwr Avg/Hold: >100/100

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

10 dB/div
Log

Ref Offset 6.9 dB
Ref 16.90 dBm

Mkr1 9.705 kHz
-51.757 dBm

-43.0 dBm

Start 9.00 kHz
#Res BW 1.0 kHz

Stop 150.00 kHz
Sweep 130 ms (1001 pts)

#VBW 10 kHz

MSG Points changed; all traces cleared

STATUS DC Coupled

Frequency

Auto Tune

Center Freq
79.500 kHz

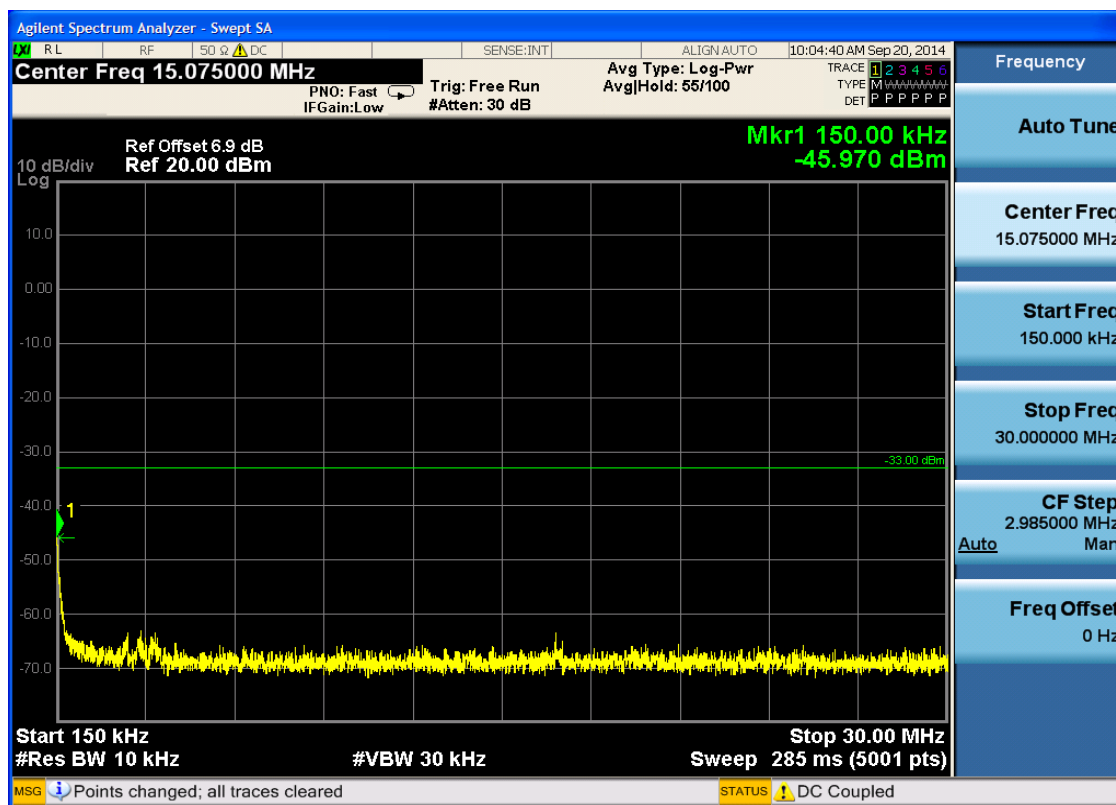
Start Freq
9.000 kHz

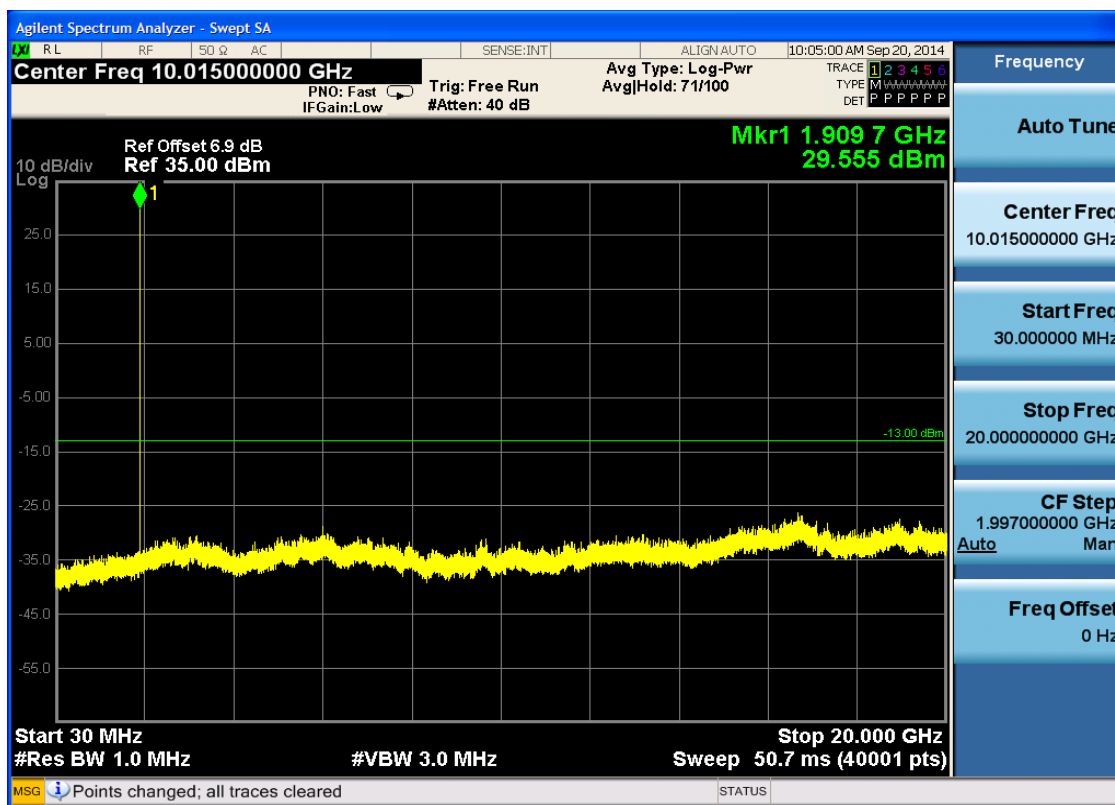
Stop Freq
150.000 kHz

CF Step
14.100 kHz
Man

Auto

Freq Offset
0 Hz

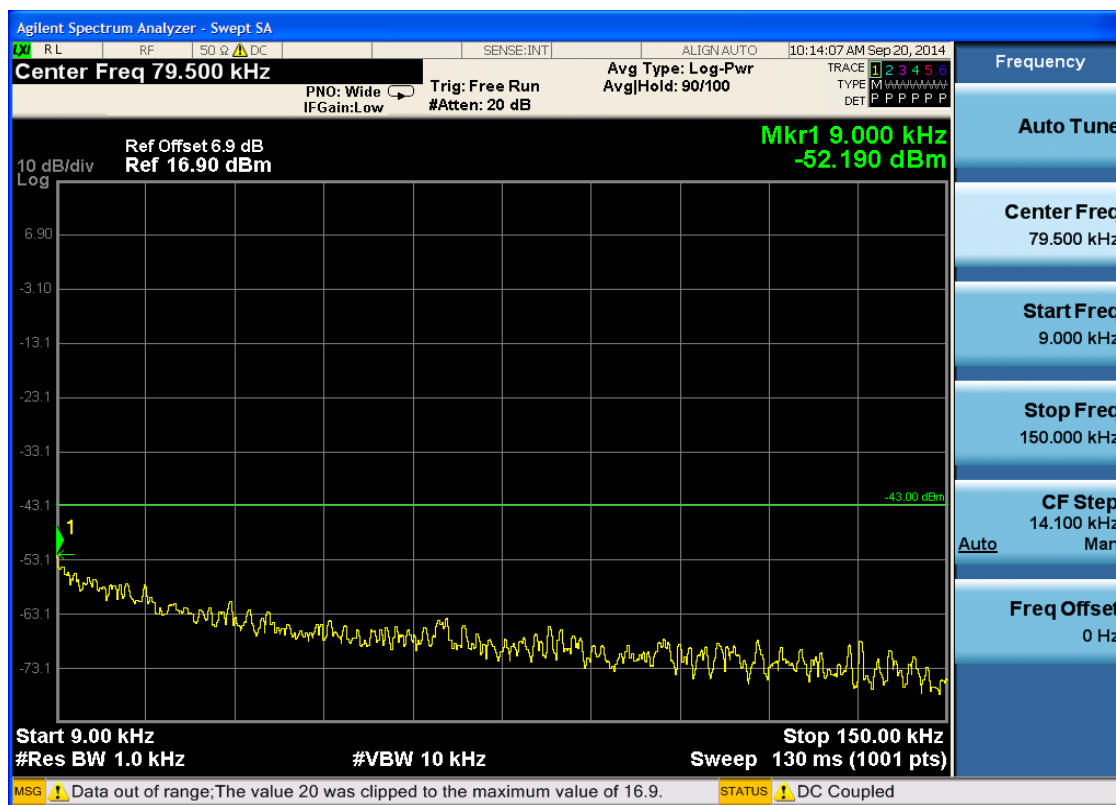


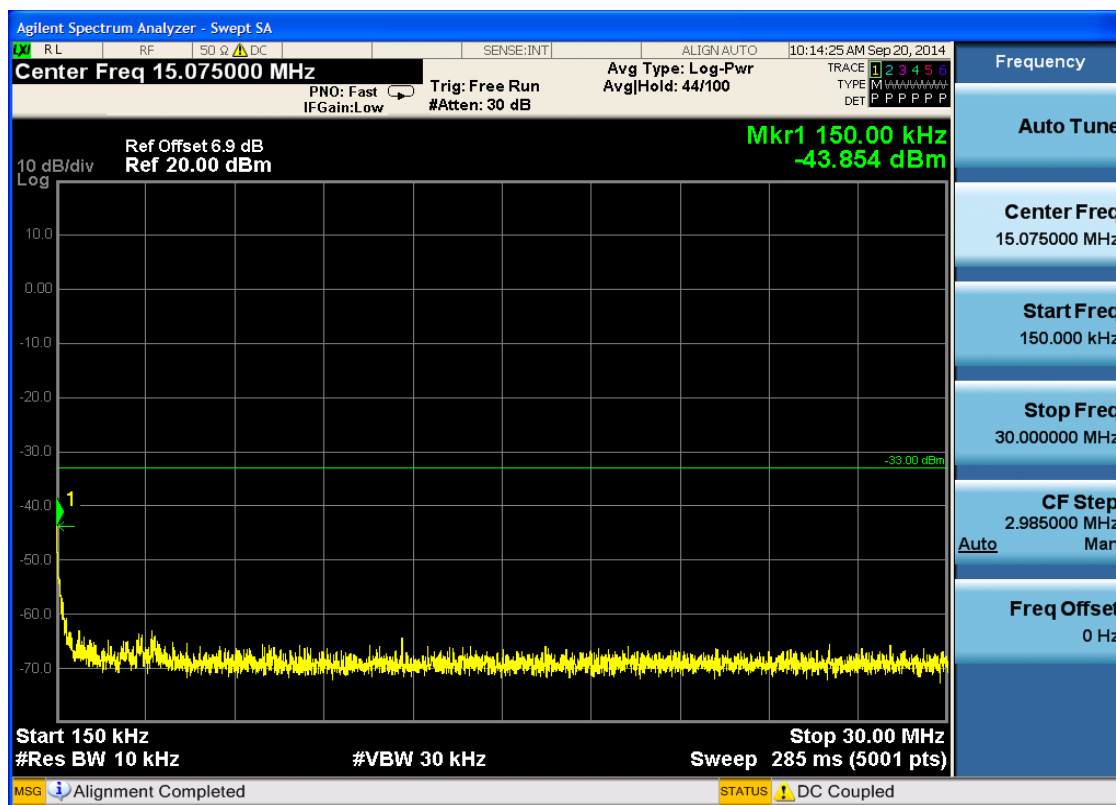


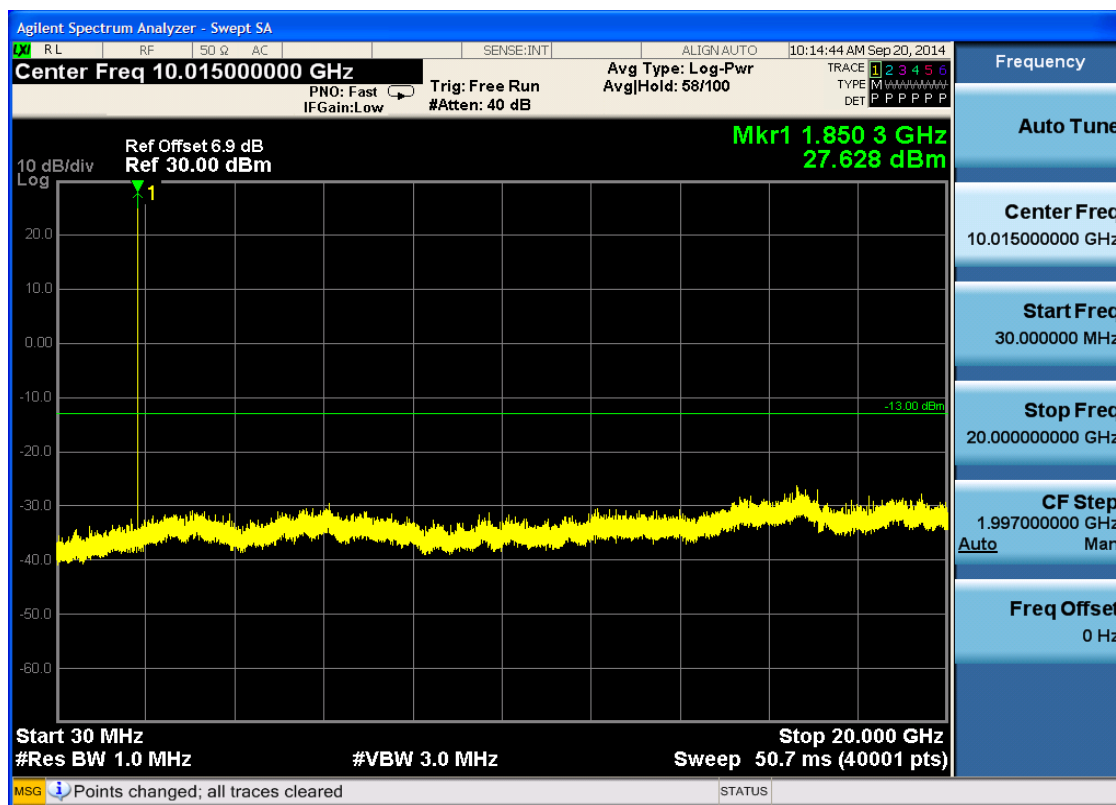


6.1.2.2 Test Mode = GSM/TM2

6.1.2.2.1 Test Channel = LCH

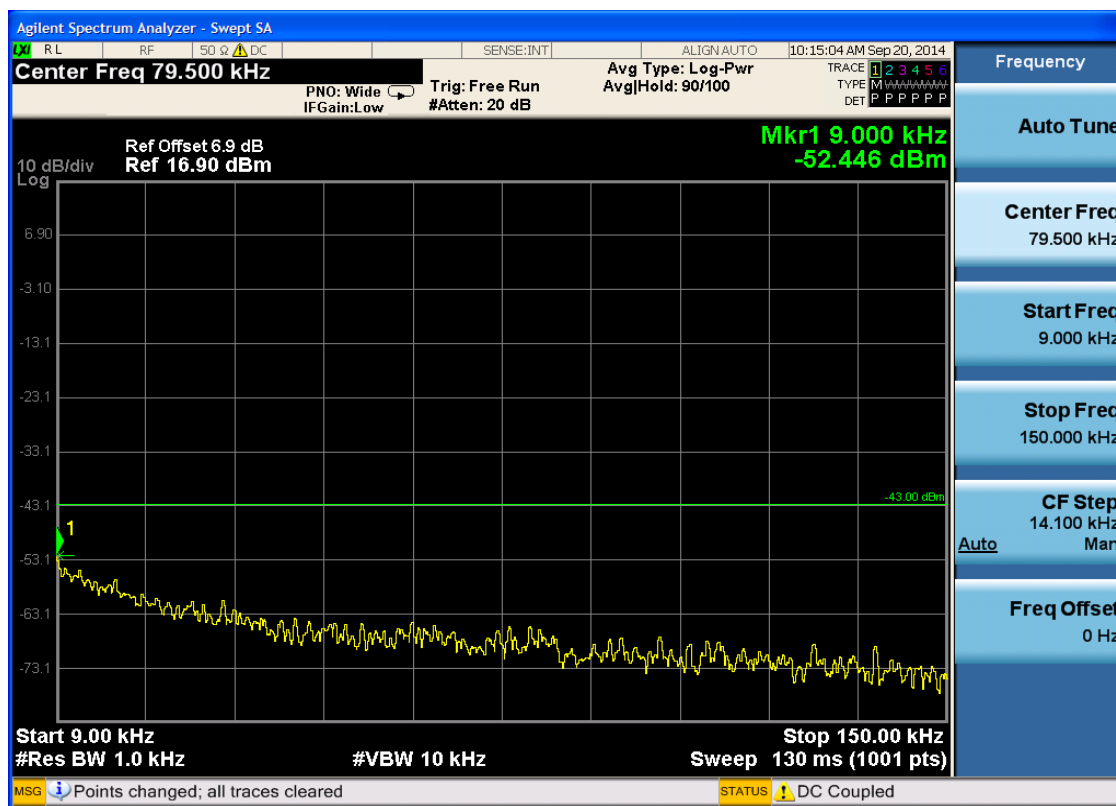


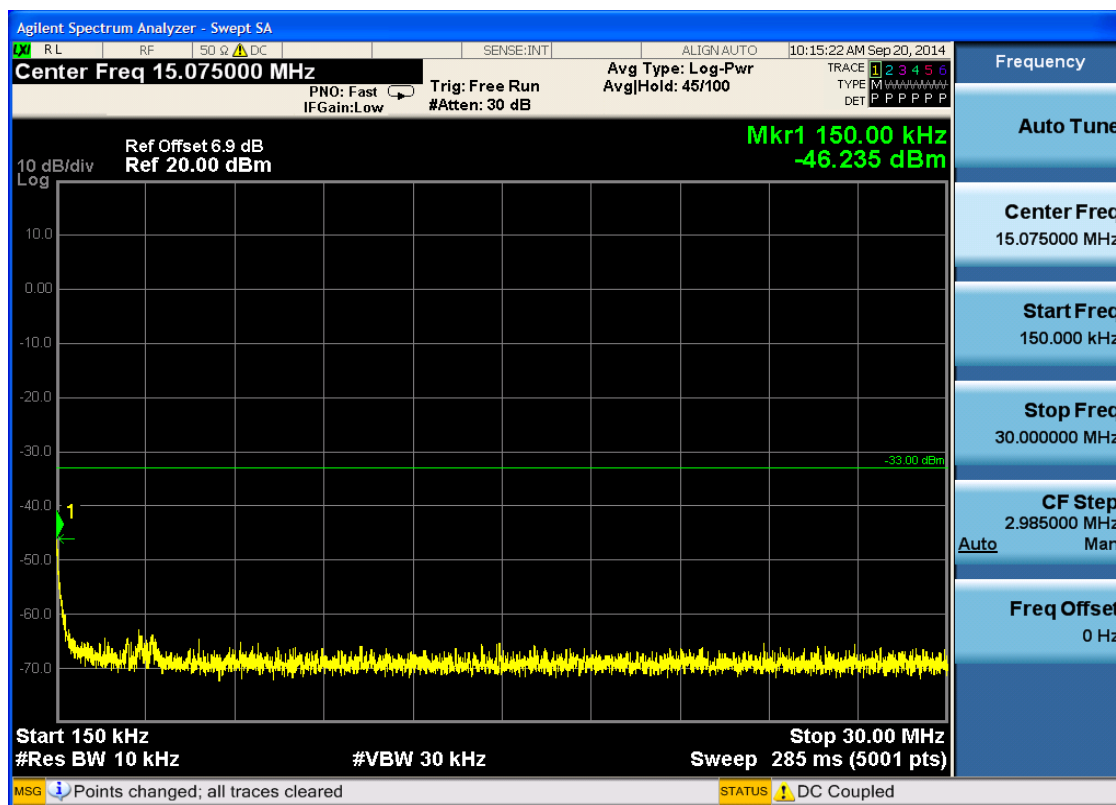


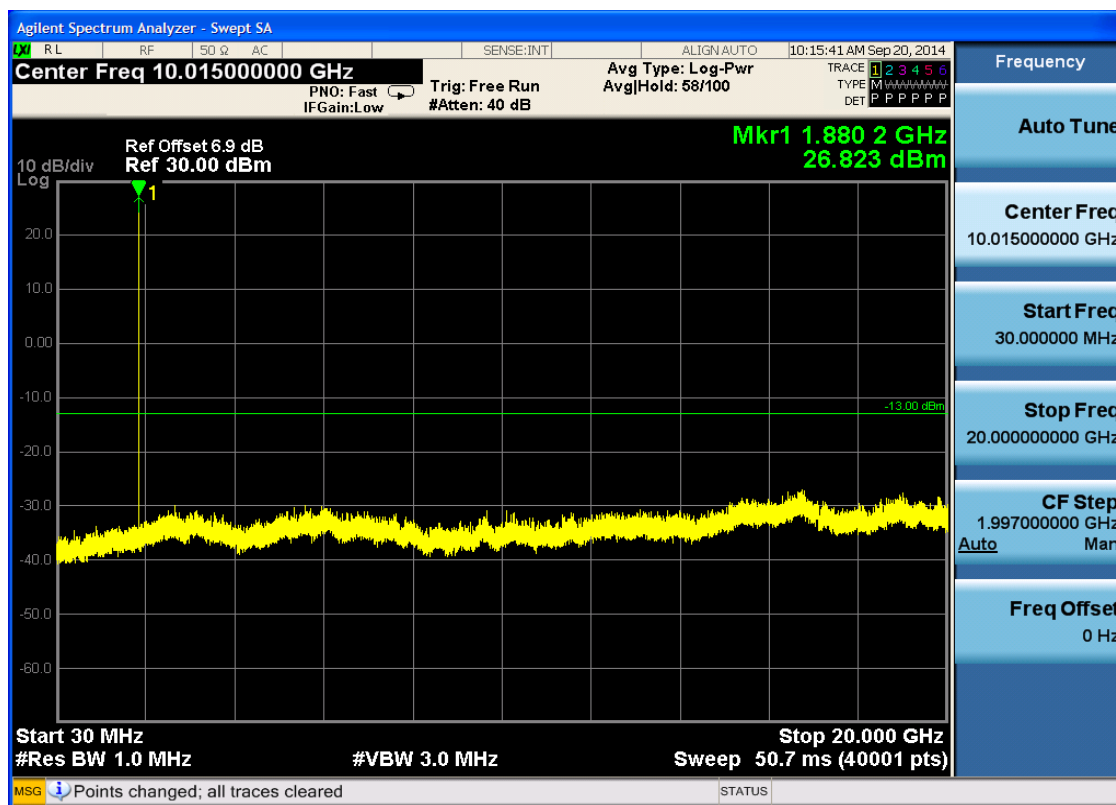




6.1.2.2.2 Test Channel = MCH

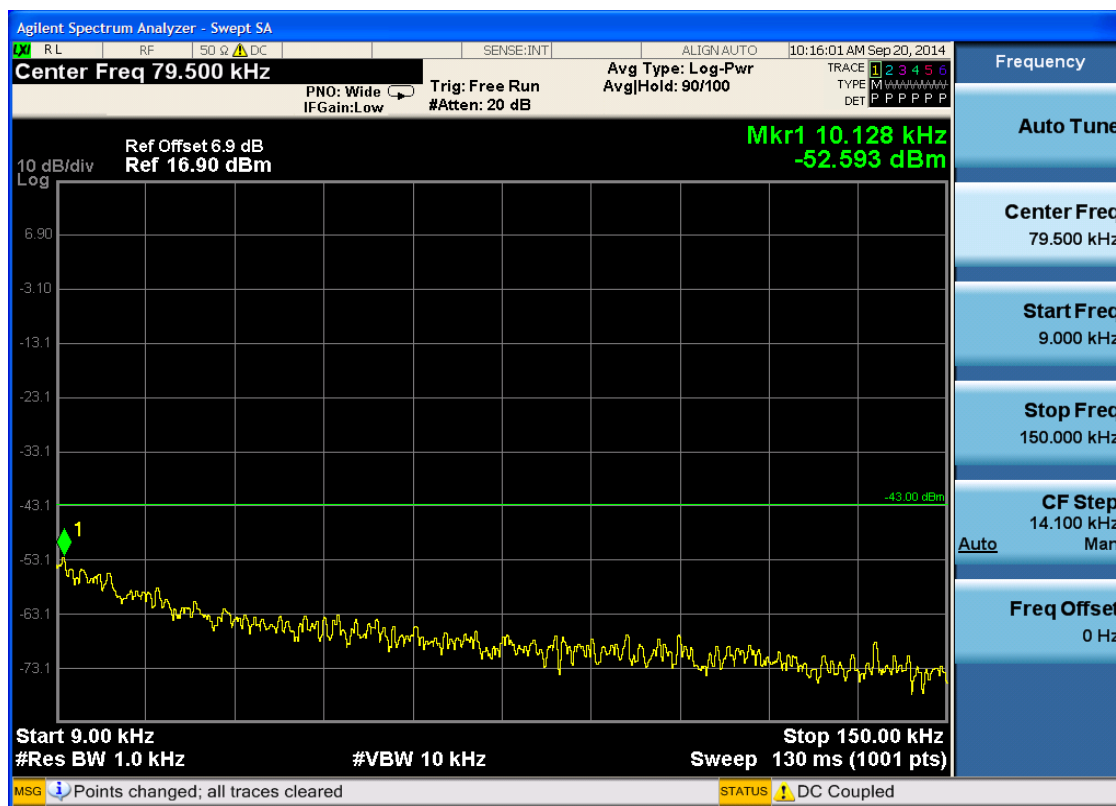


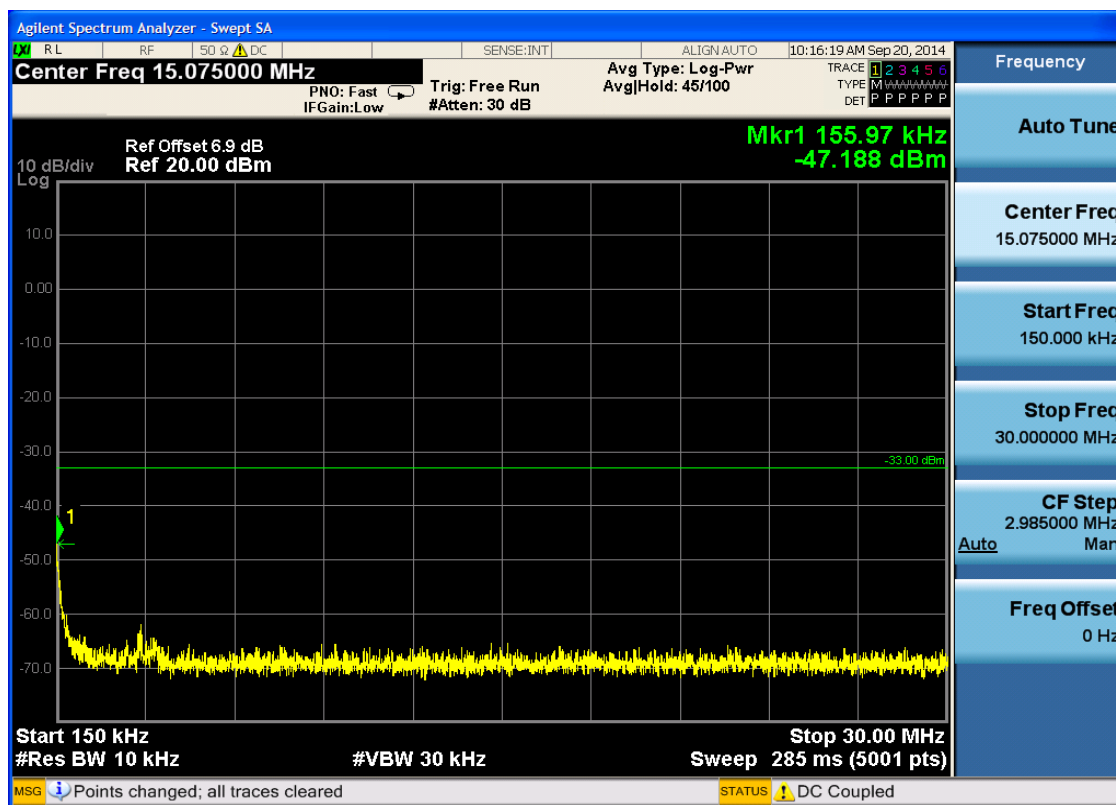


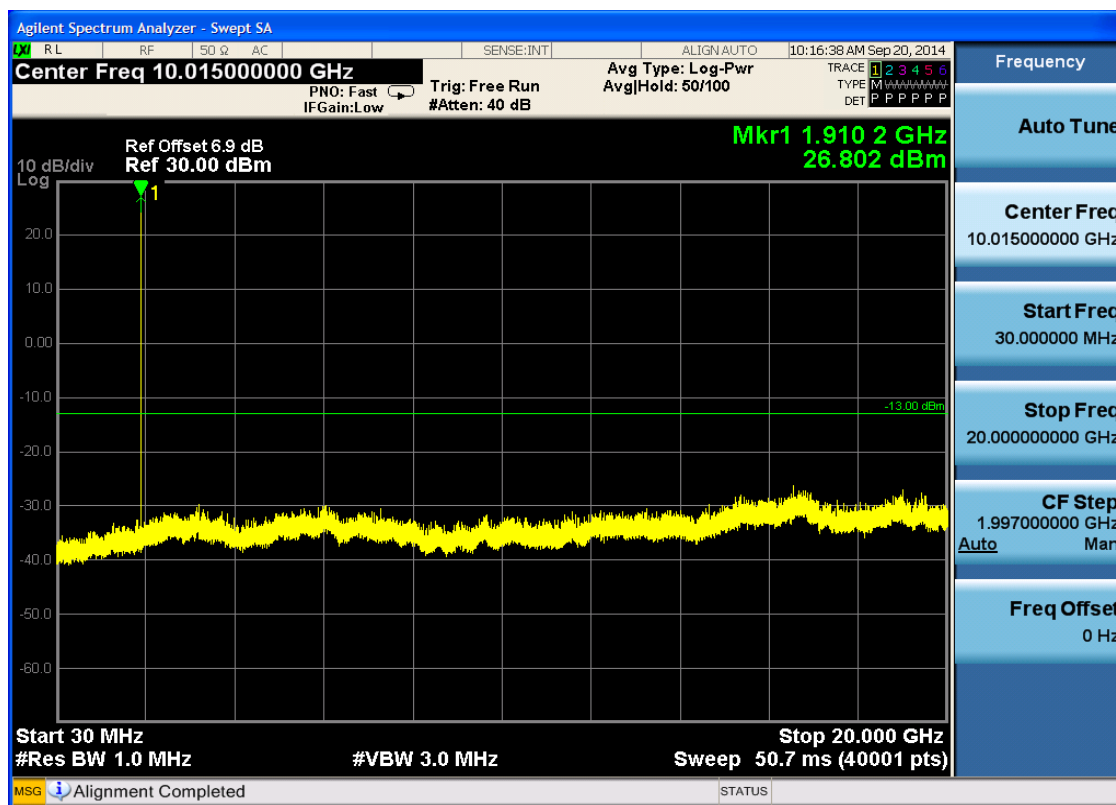




6.1.2.2.3 Test Channel = HCH







6.2 For LTE

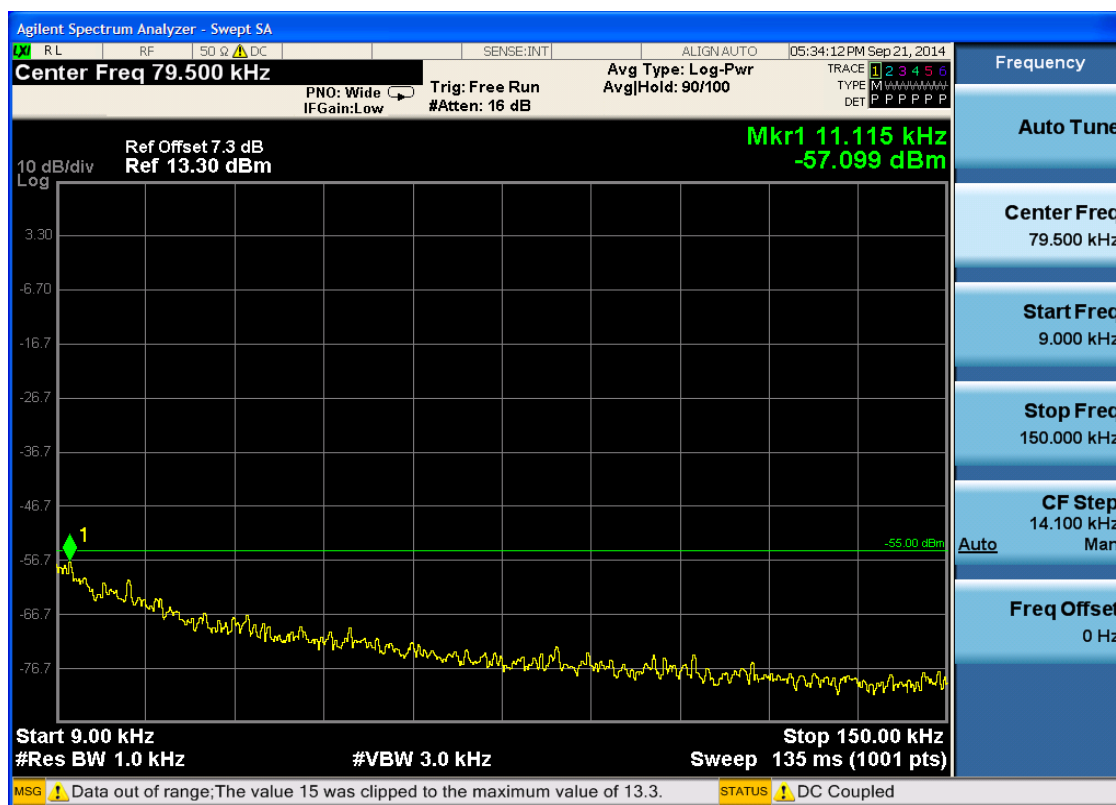
6.2.1 Test Band = BAND7

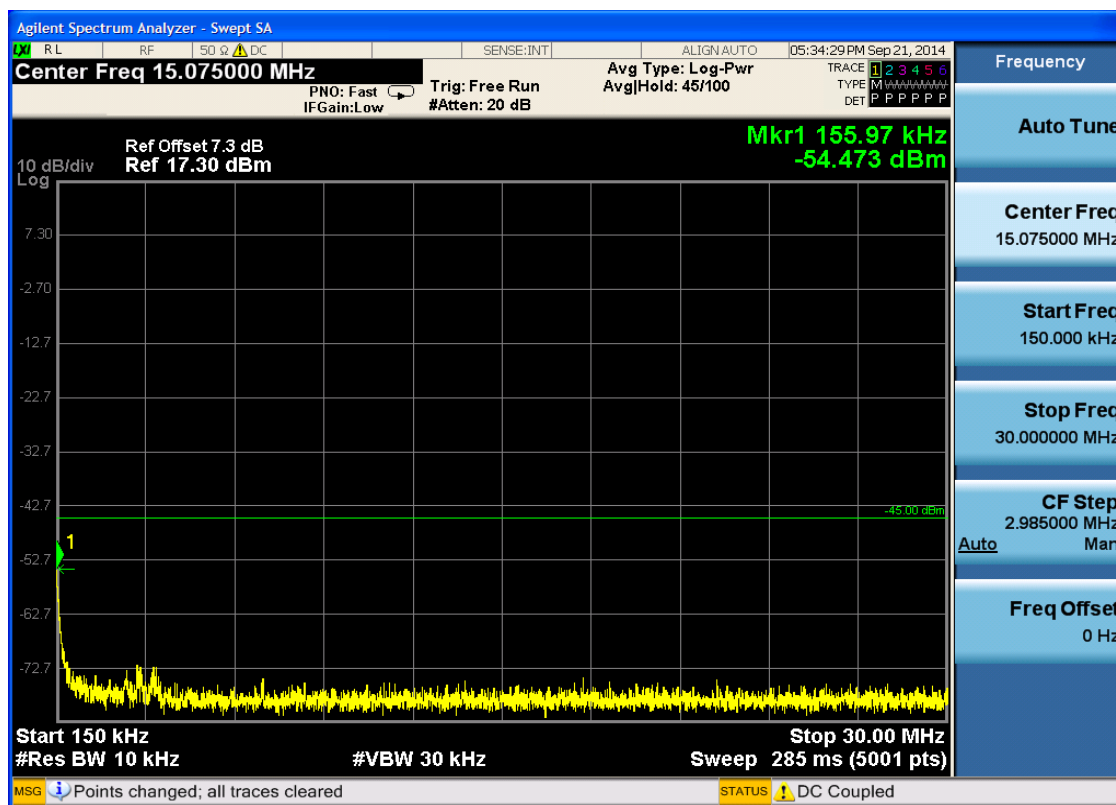
6.2.1.1 Test Mode = LTE/TM1

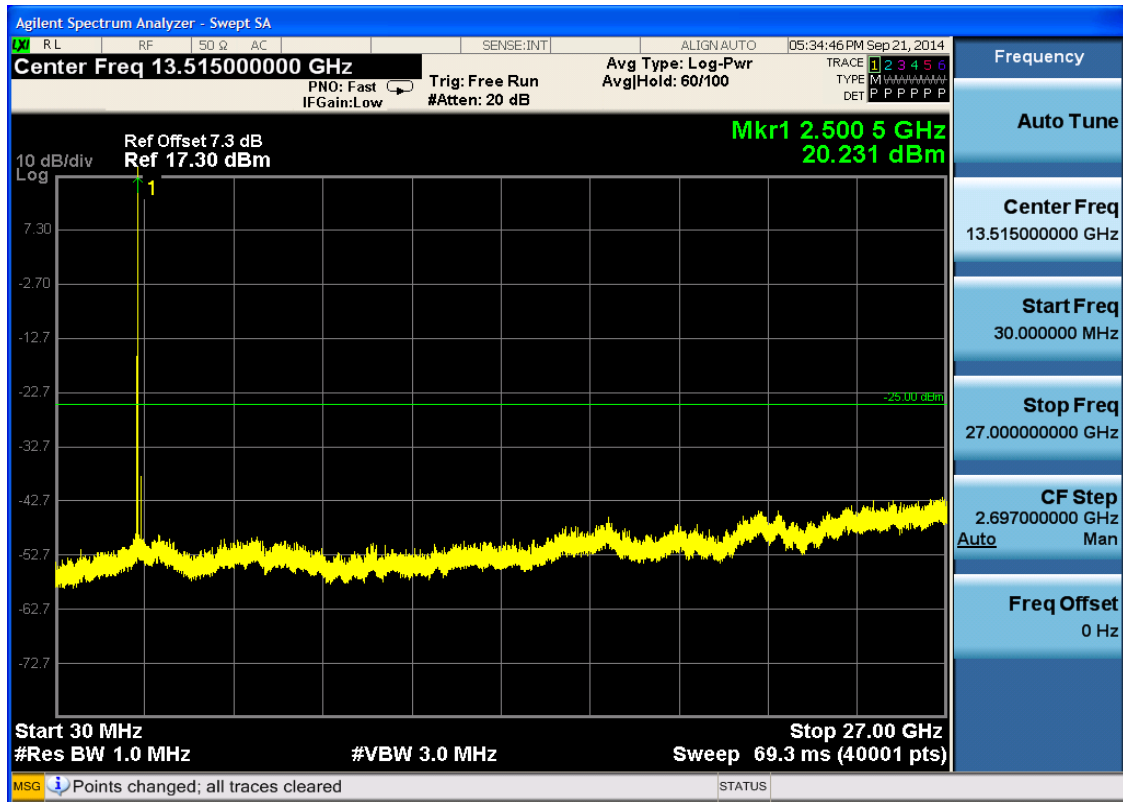
6.2.1.1.1 Test Bandwidth = 5

6.2.1.1.1.1 Test Channel = LCH

6.2.1.1.1.1.1 Test RB = RB1#0

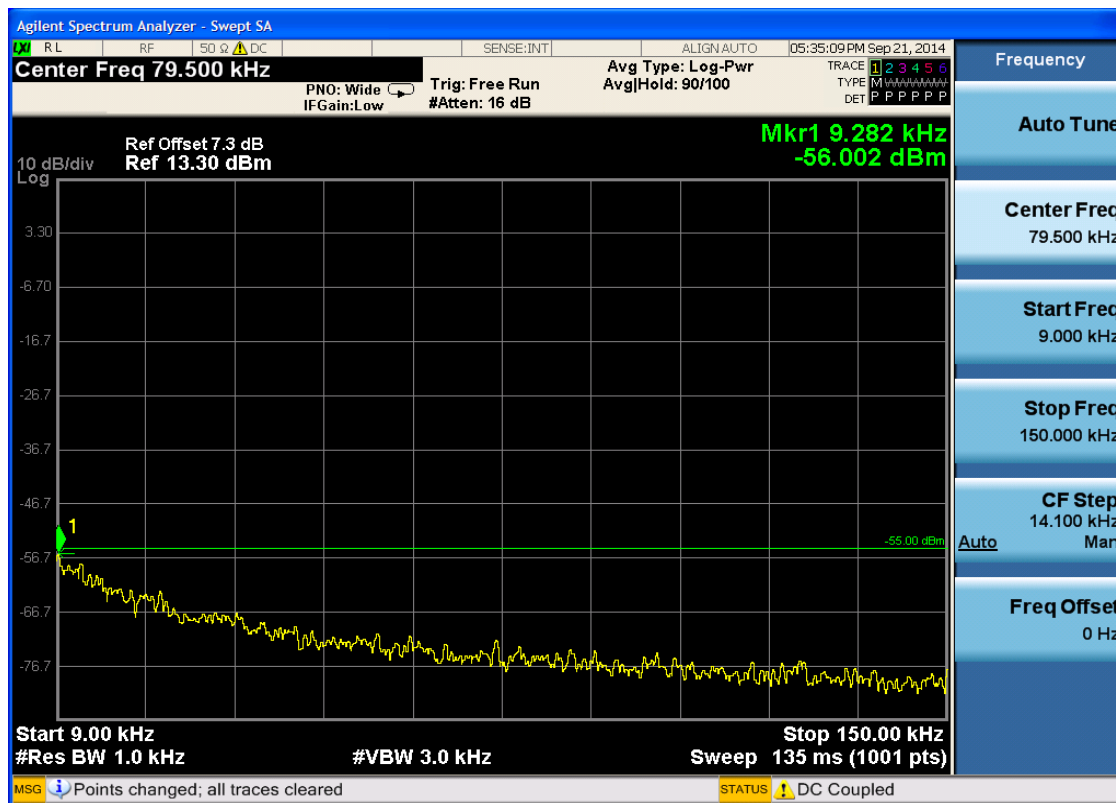


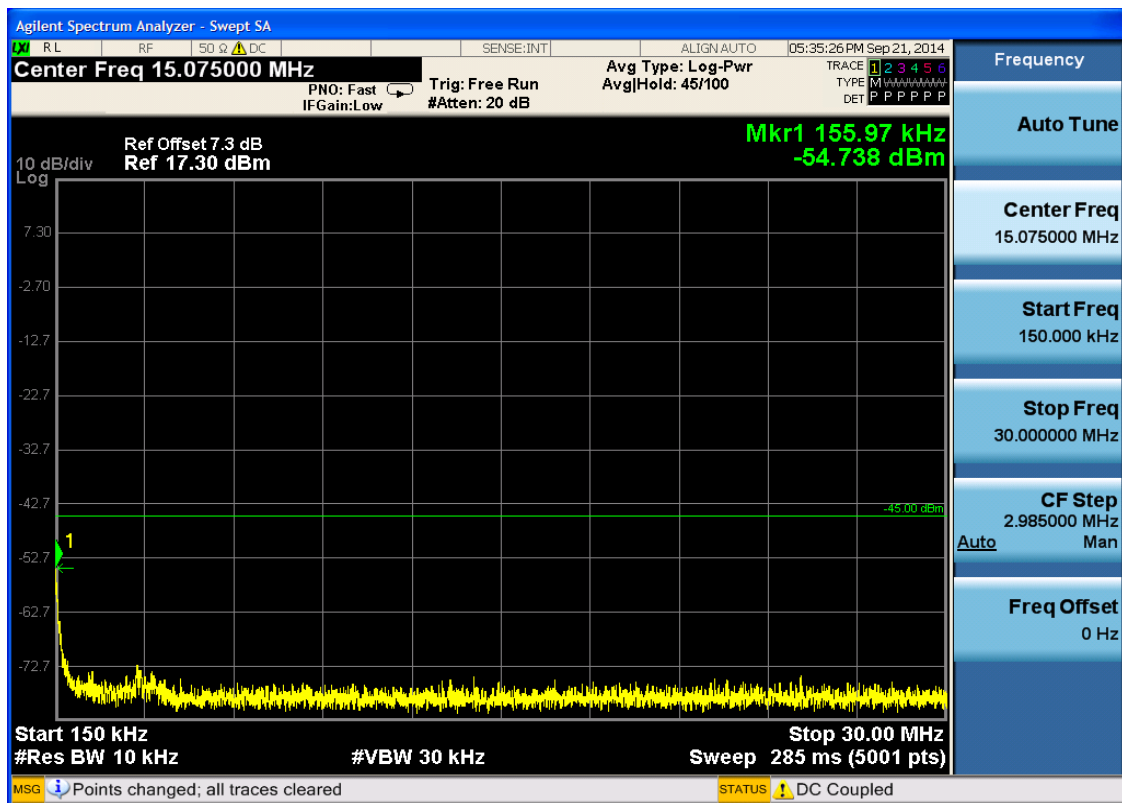


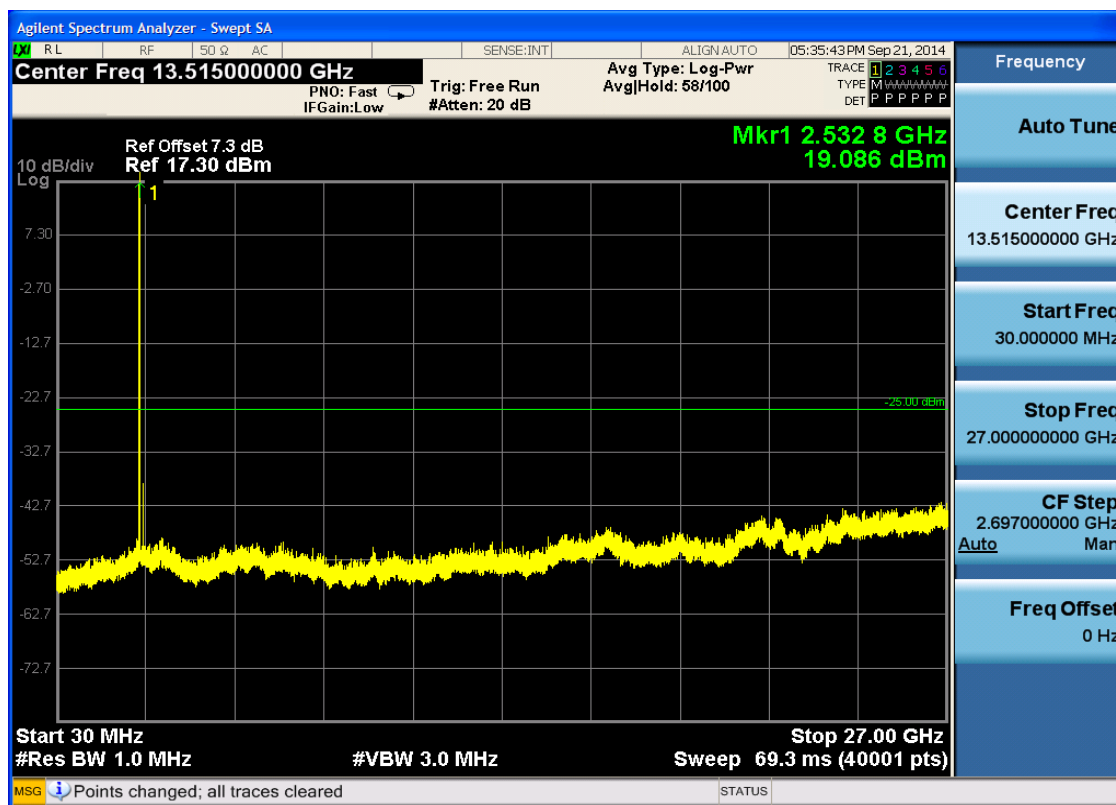


6.2.1.1.1.2 Test Channel = MCH

6.2.1.1.1.2.1 Test RB = RB1#0

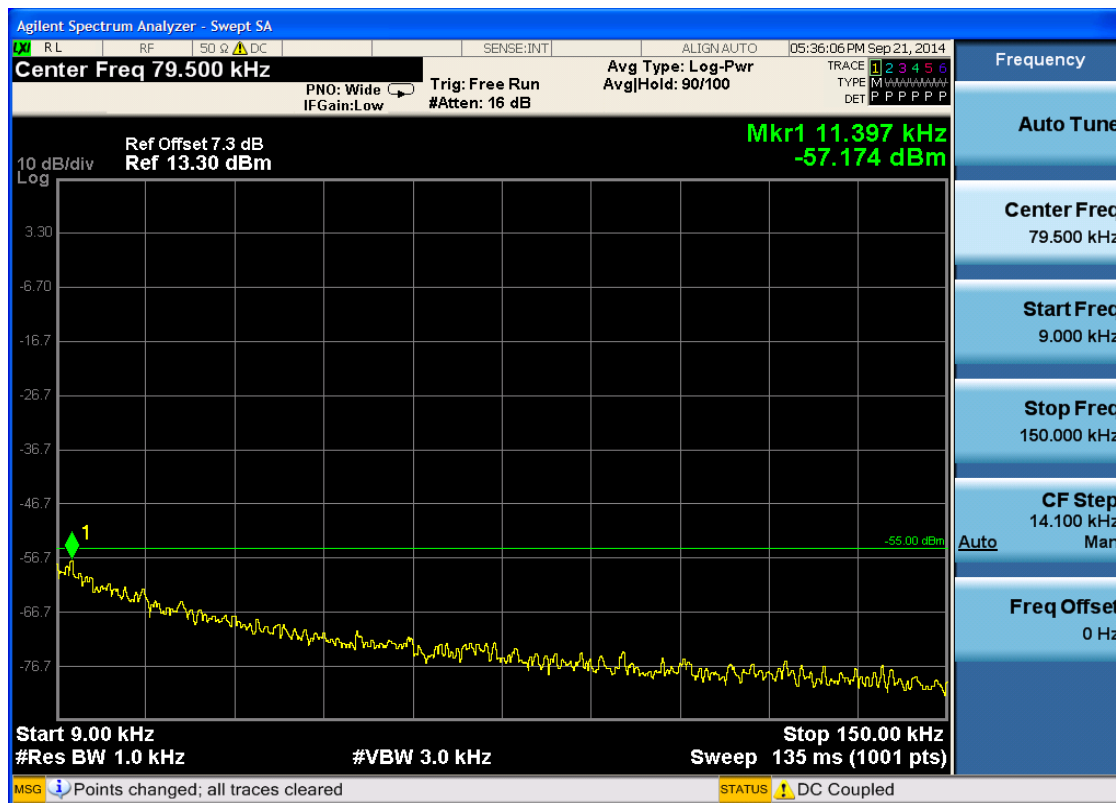


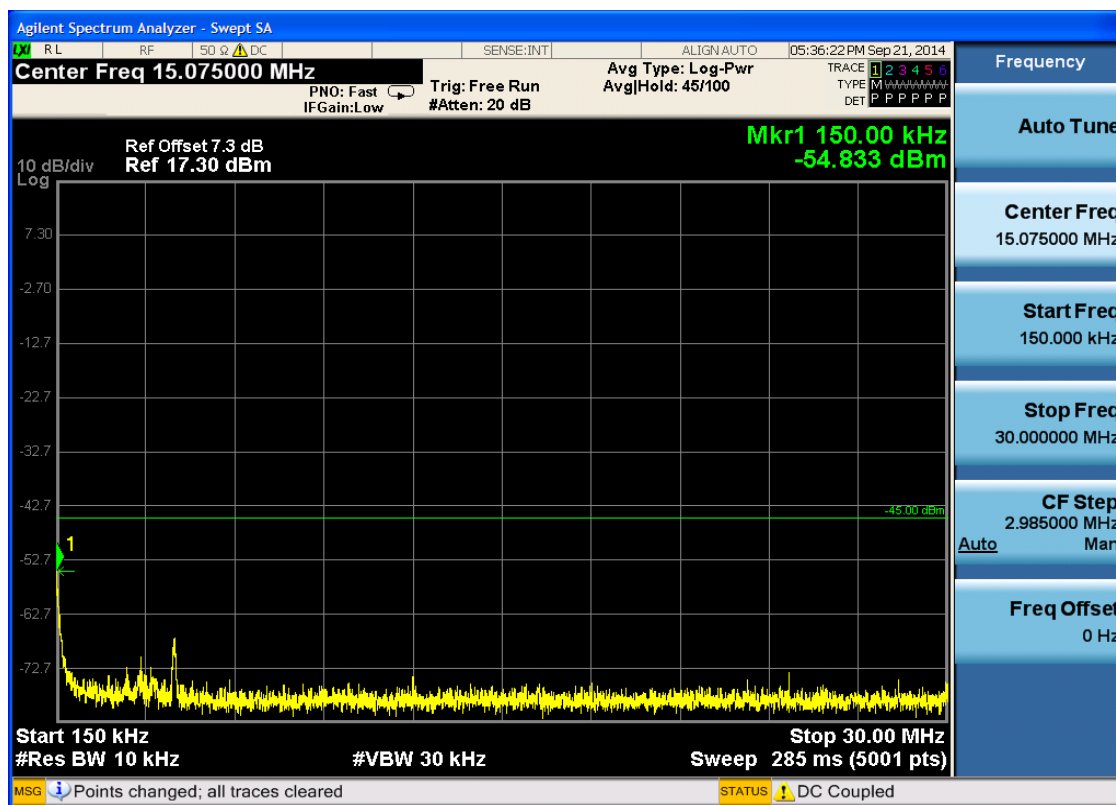


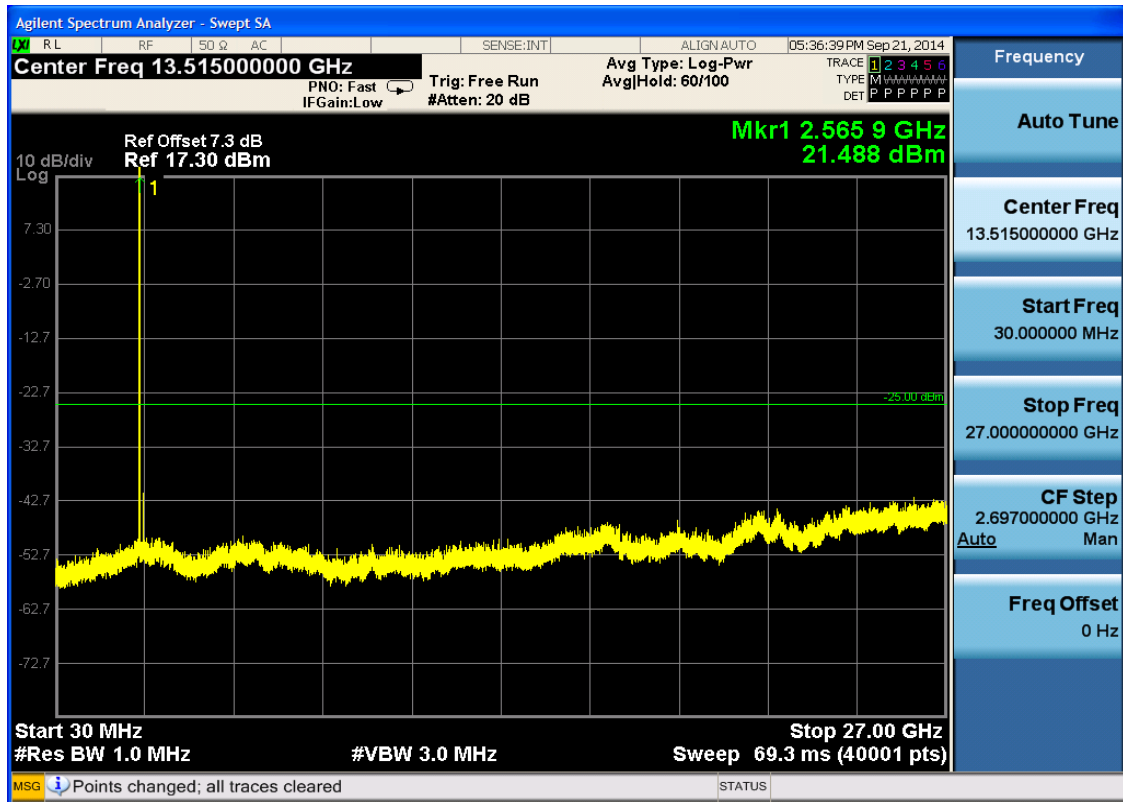


6.2.1.1.1.3 Test Channel = HCH

6.2.1.1.1.3.1 Test RB = RB1#0



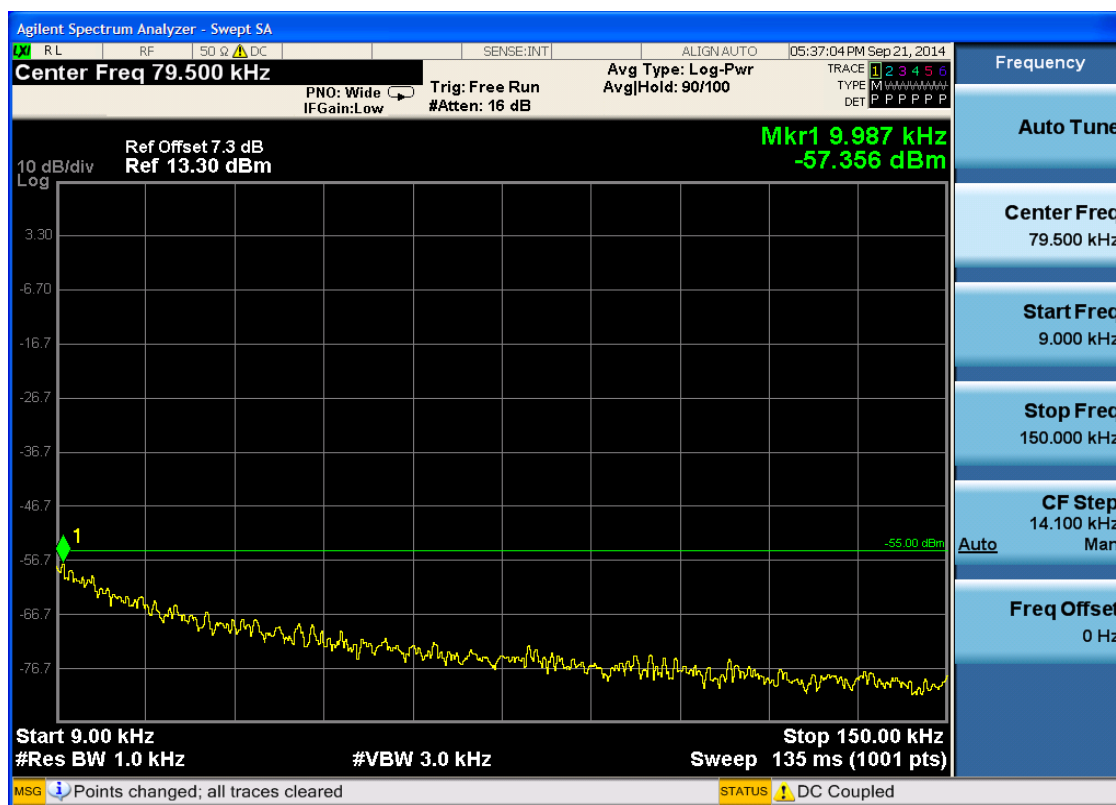


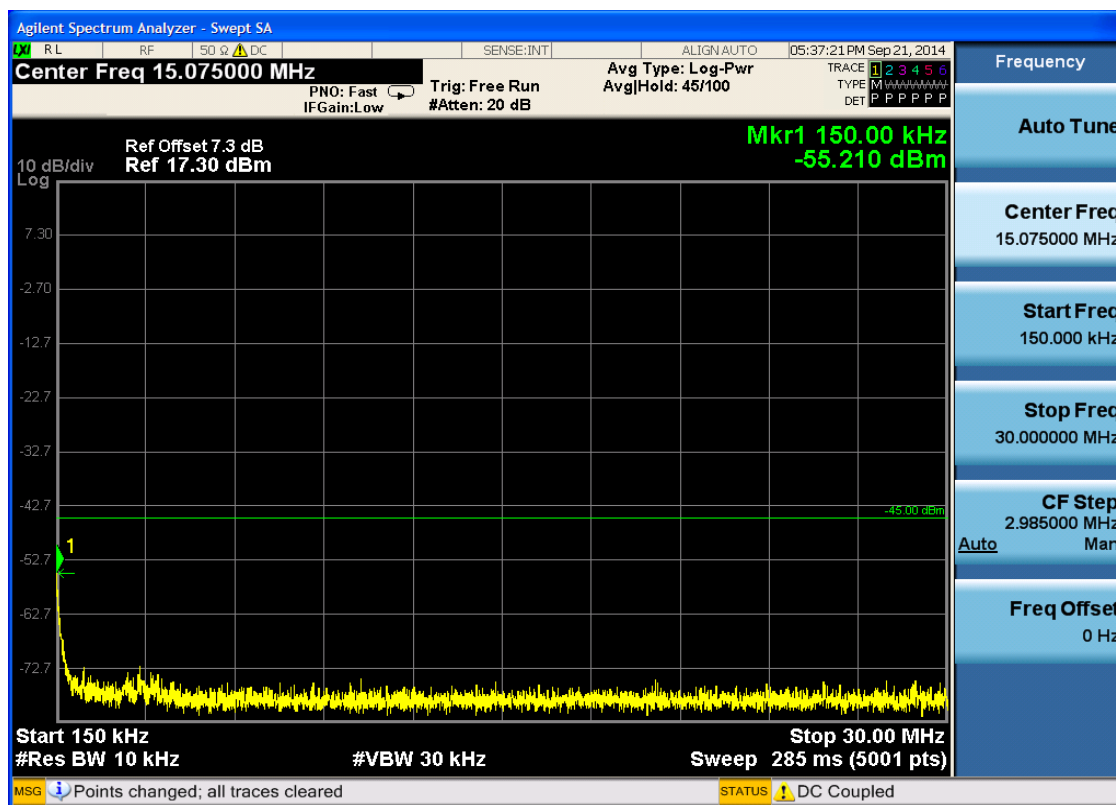


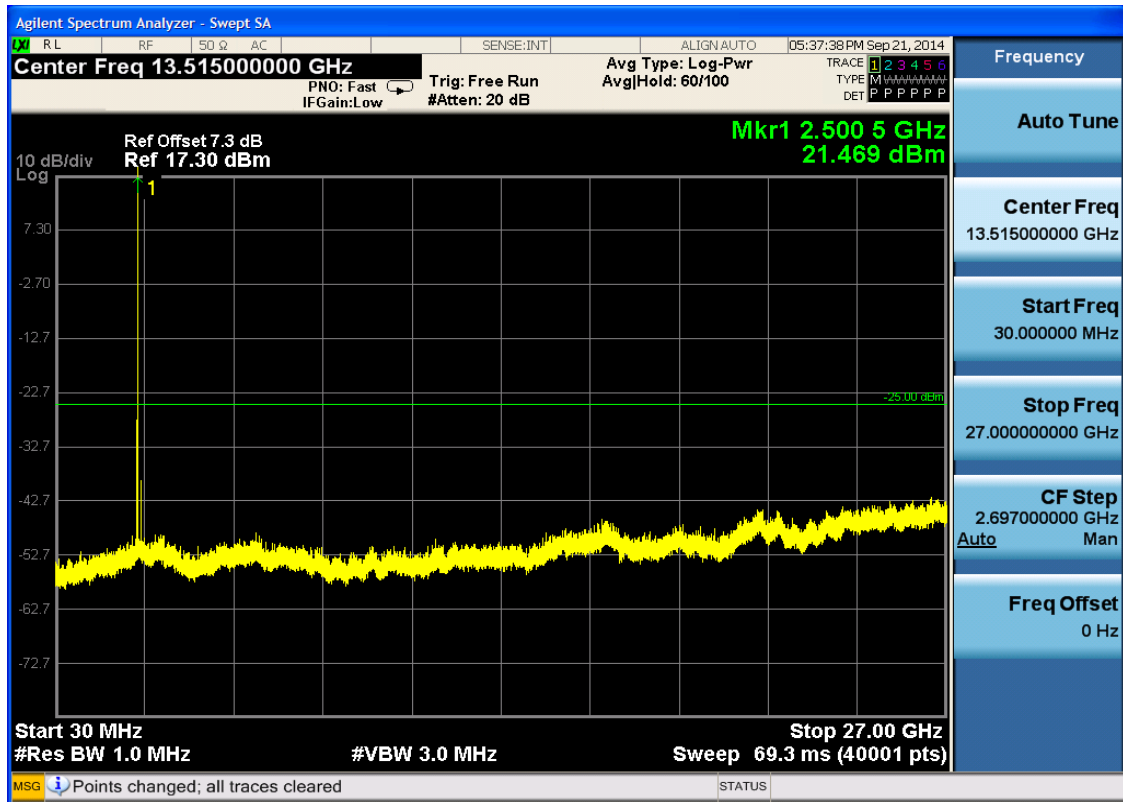
6.2.1.1.2 Test Bandwidth = 10

6.2.1.1.2.1 Test Channel = LCH

6.2.1.1.2.1.1 Test RB = RB1#0



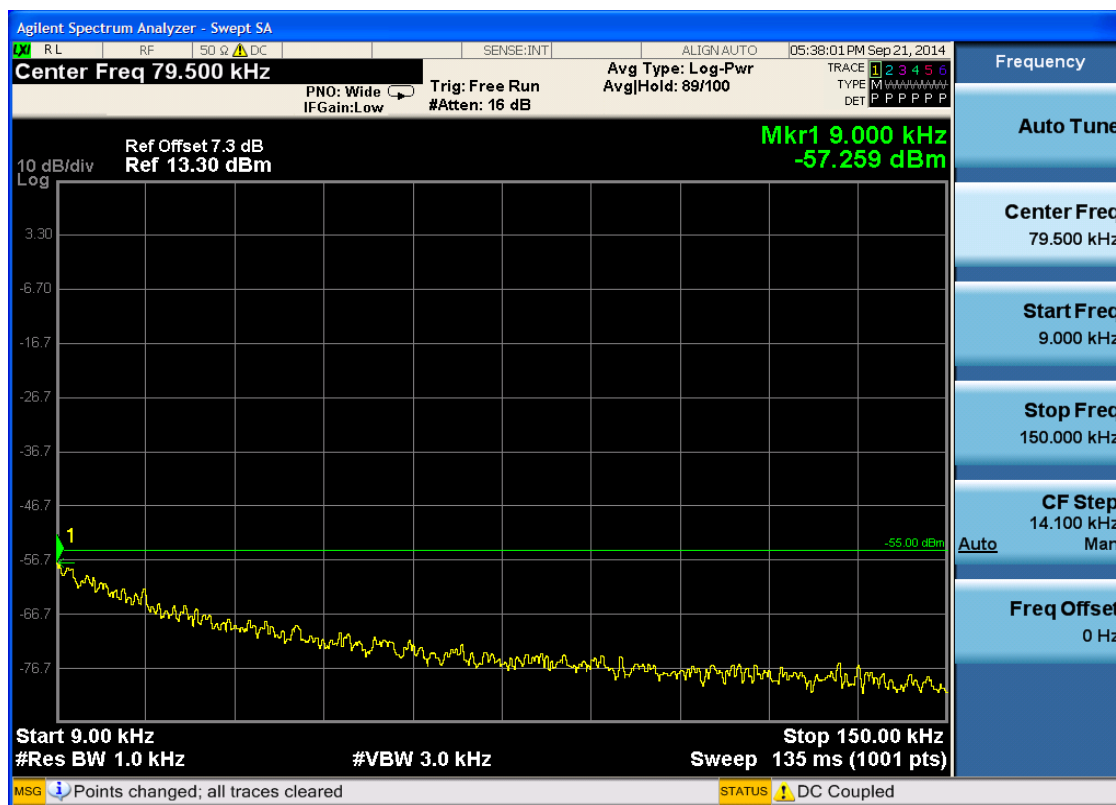


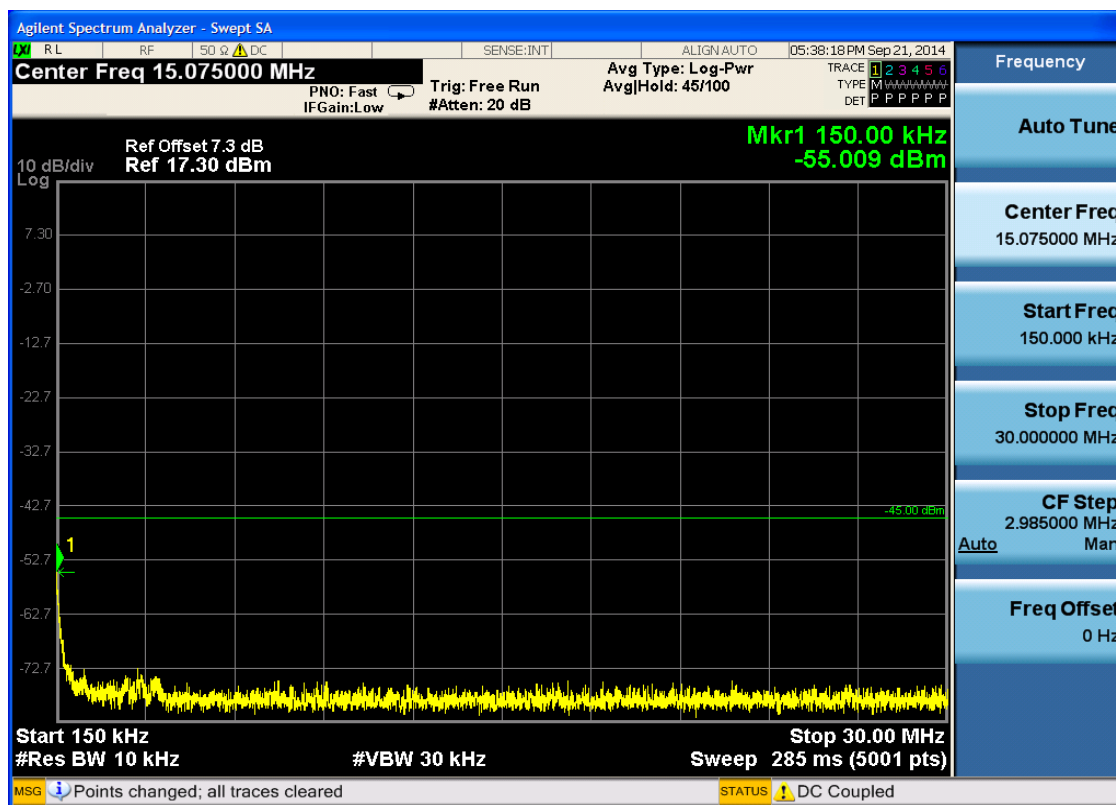


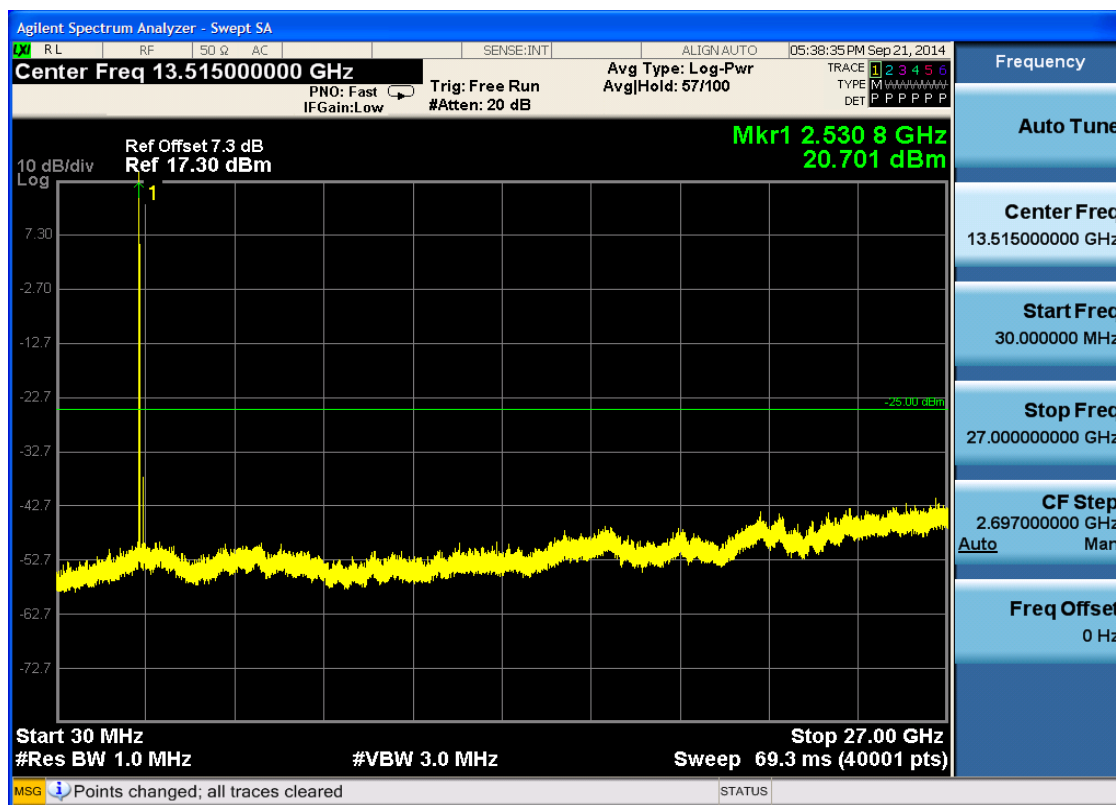


6.2.1.1.2.2 Test Channel = MCH

6.2.1.1.2.2.1 Test RB = RB1#0

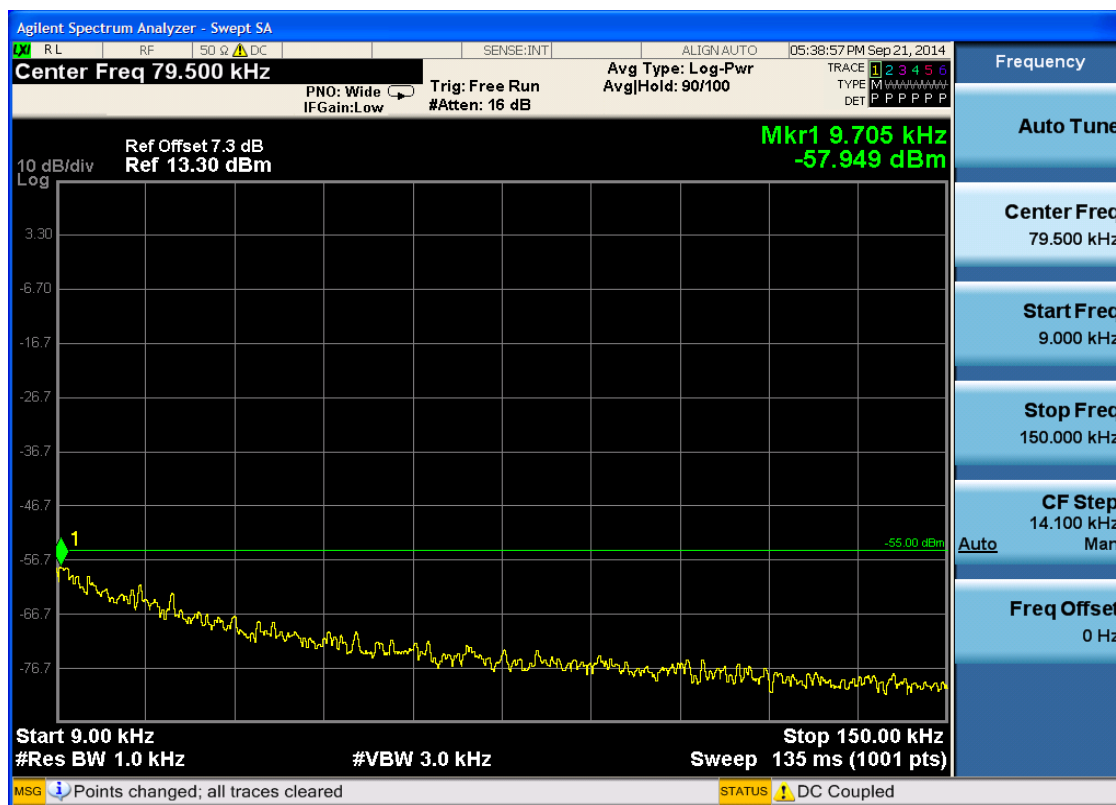


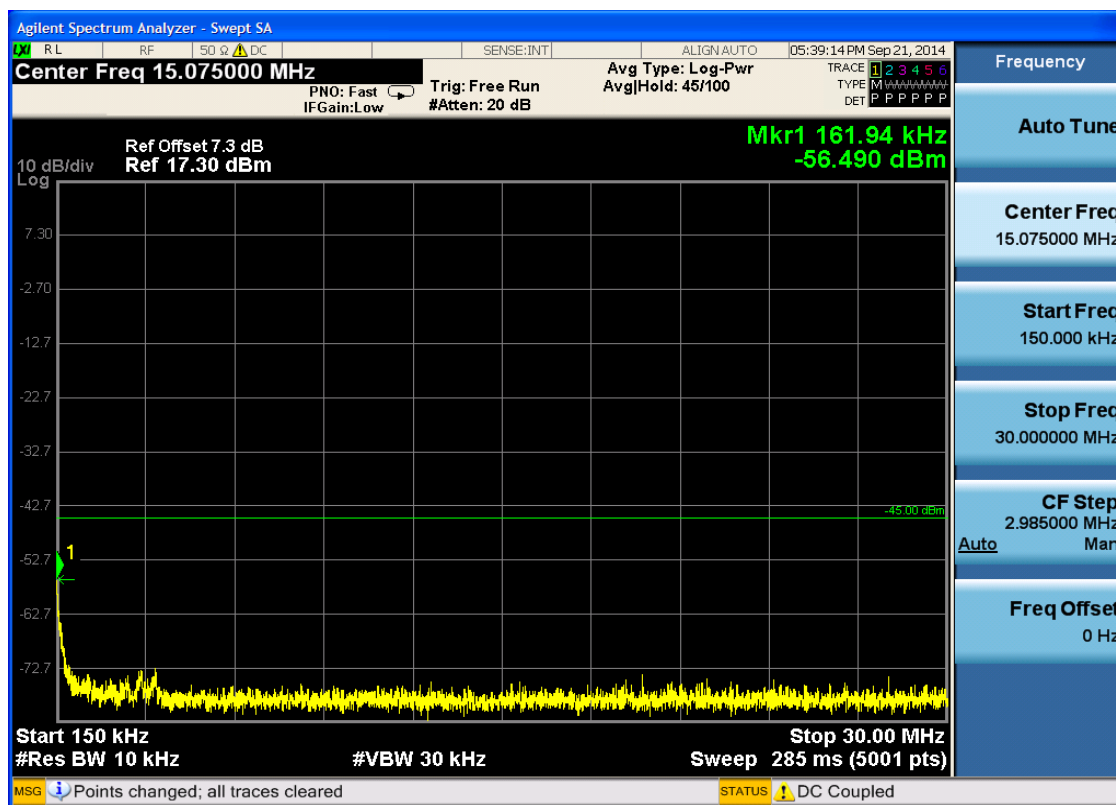


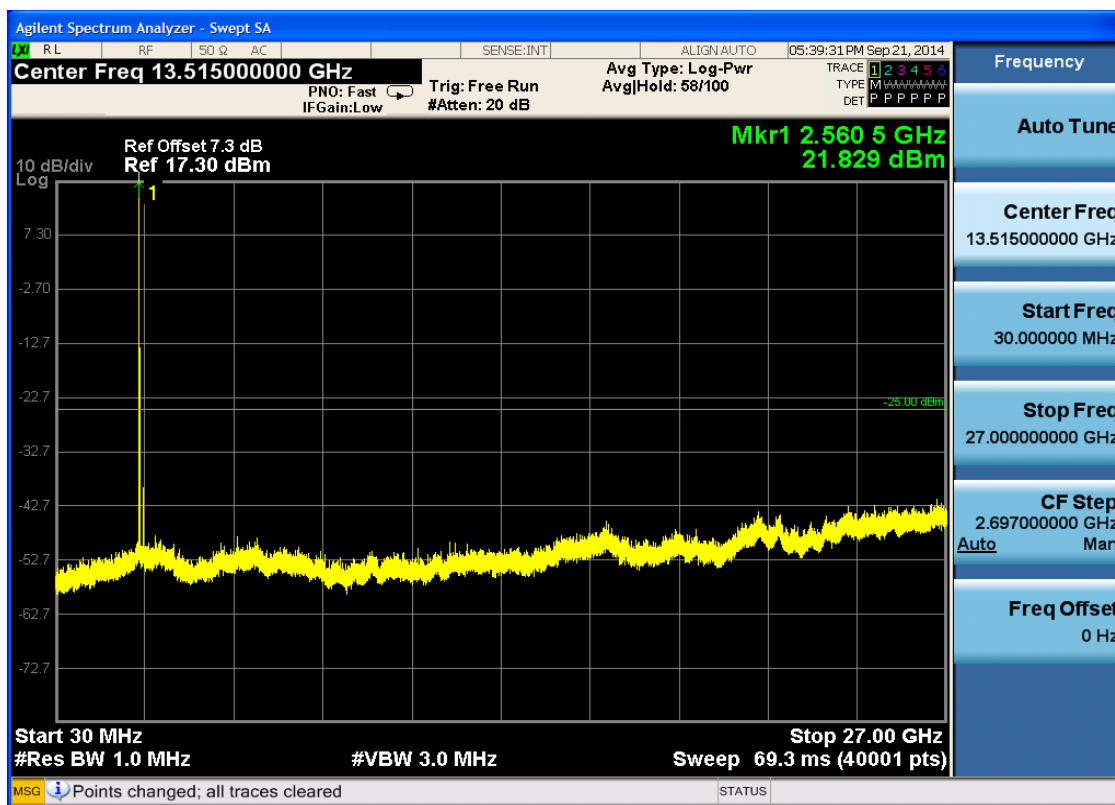


6.2.1.1.2.3 Test Channel = HCH

6.2.1.1.2.3.1 Test RB = RB1#0









6.2.1.1.3 Test Bandwidth = 15

6.2.1.1.3.1 Test Channel = LCH

6.2.1.1.3.1.1 Test RB = RB1#0

