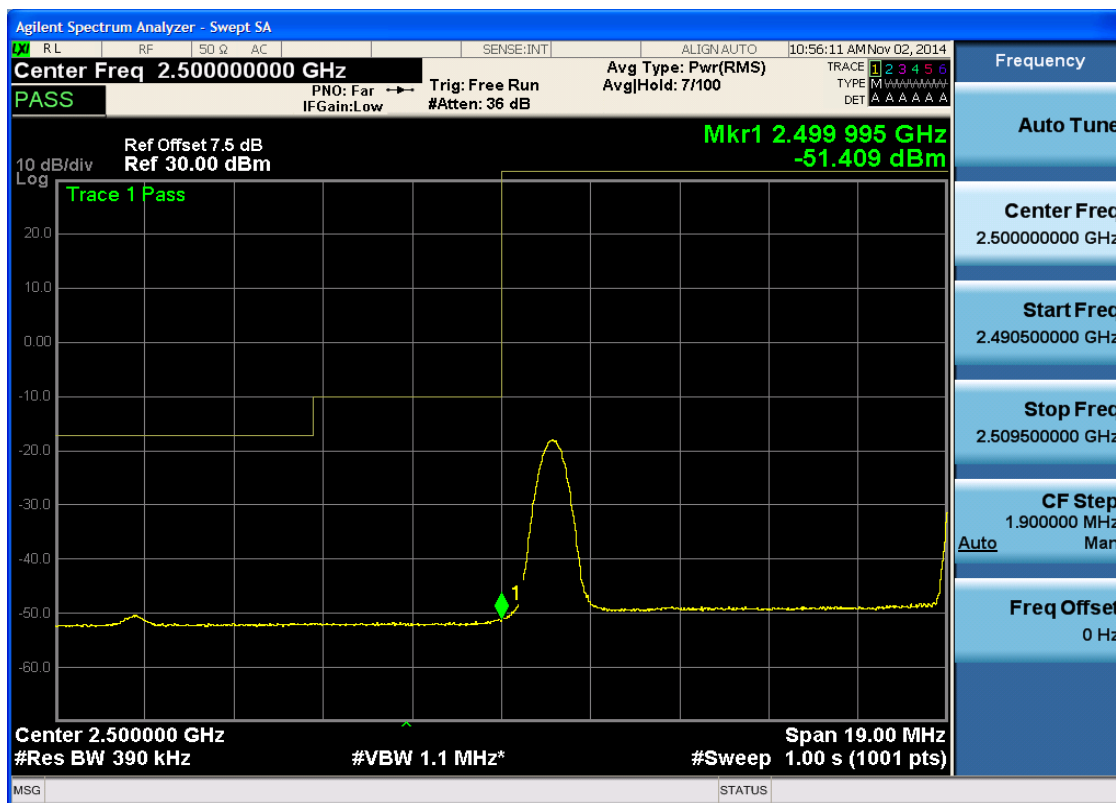


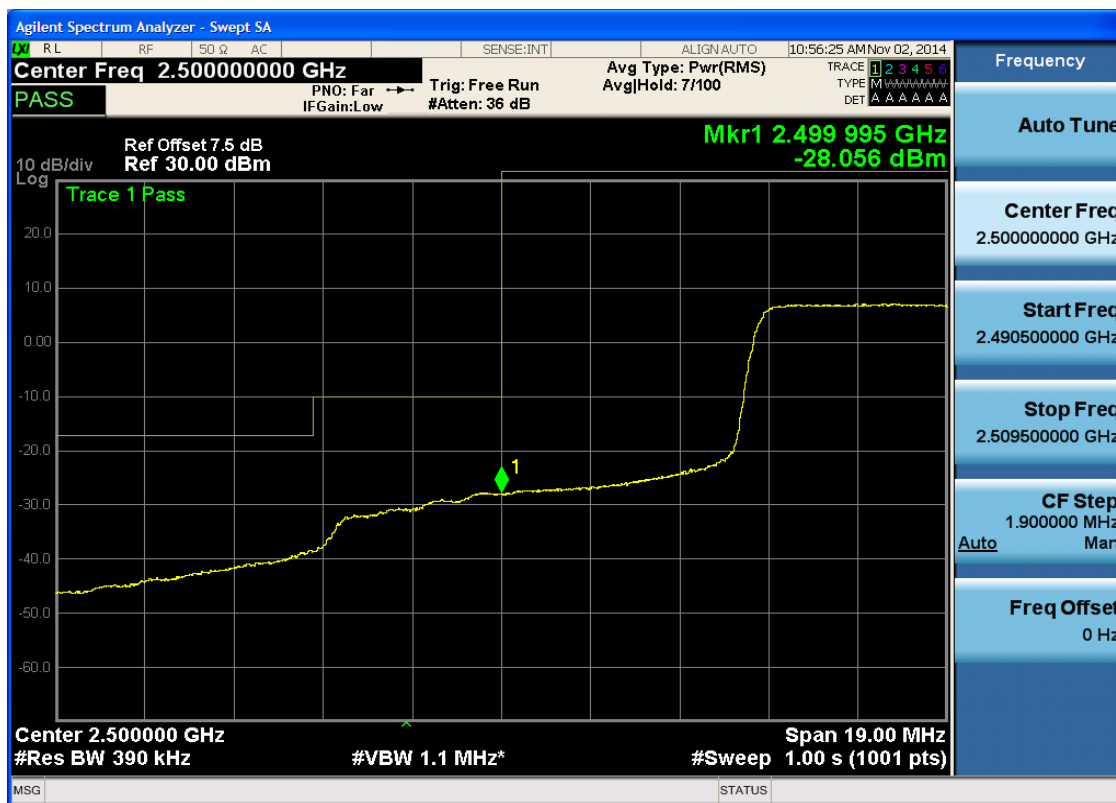


5.3.2.1.4.1.2 Test RB = RB1#99



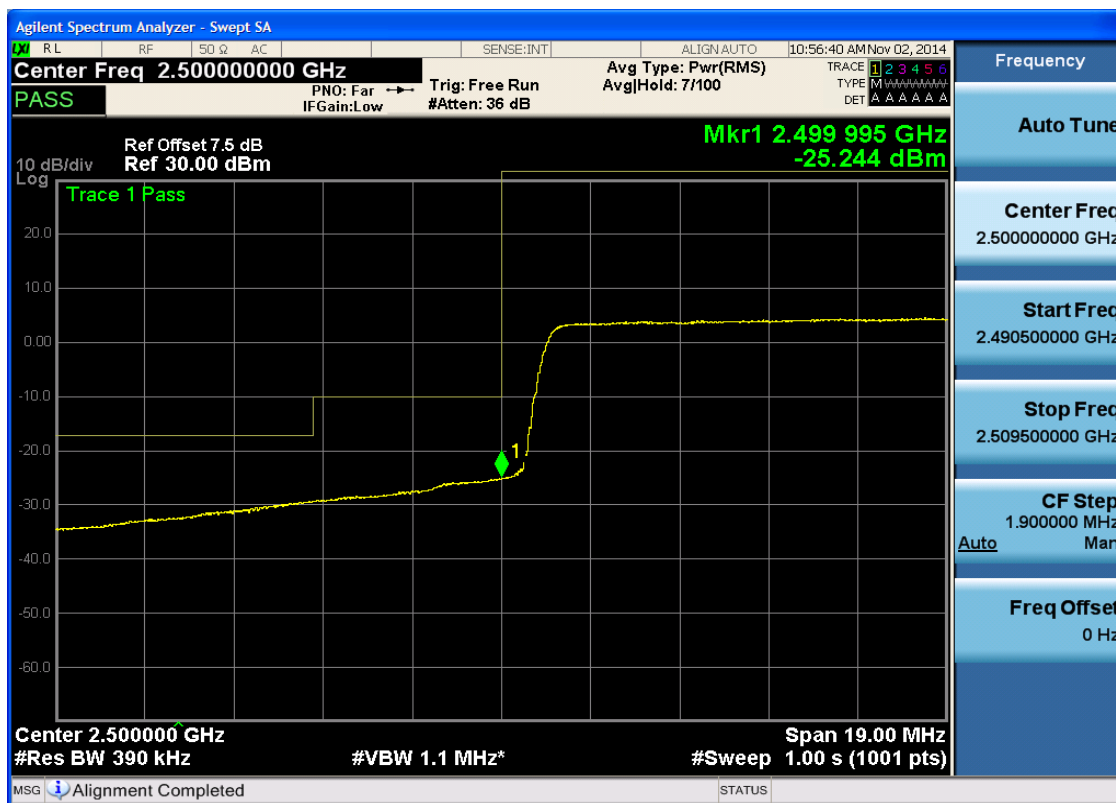


5.3.2.1.4.1.3 Test RB = RB50#25





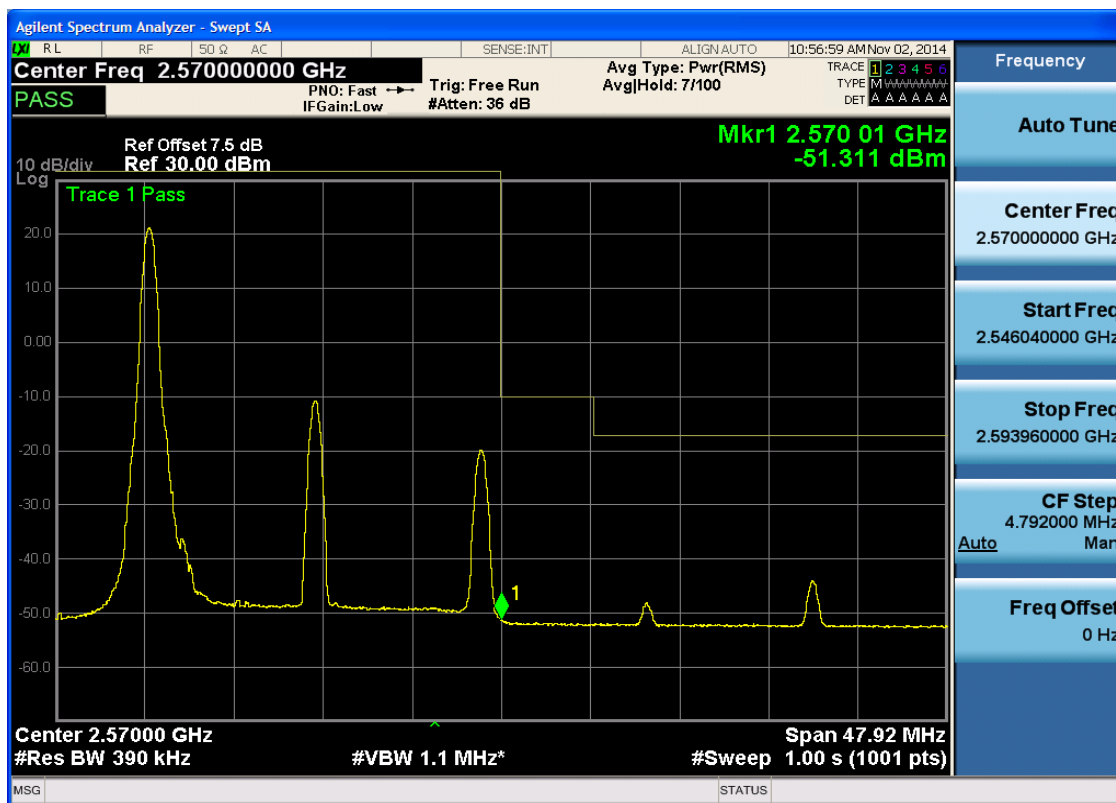
5.3.2.1.4.1.4 Test RB = RB100#0





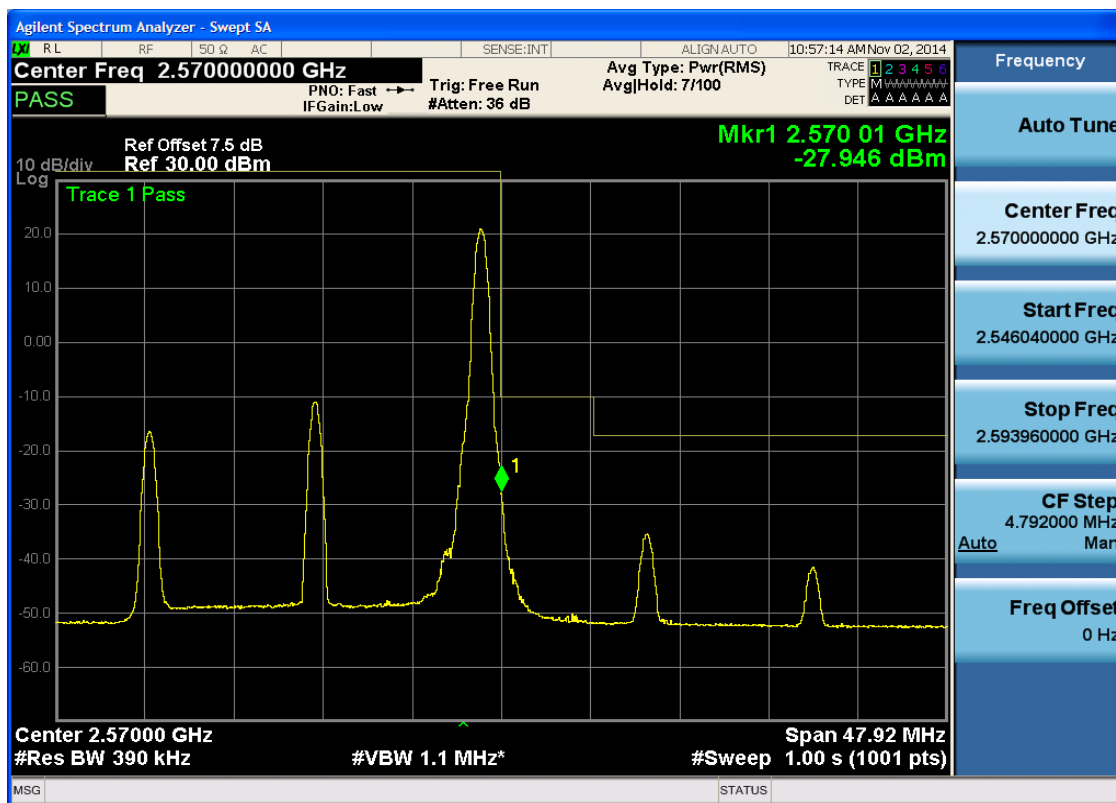
5.3.2.1.4.2 Test Channel = HCH

5.3.2.1.4.2.1 Test RB = RB1#0



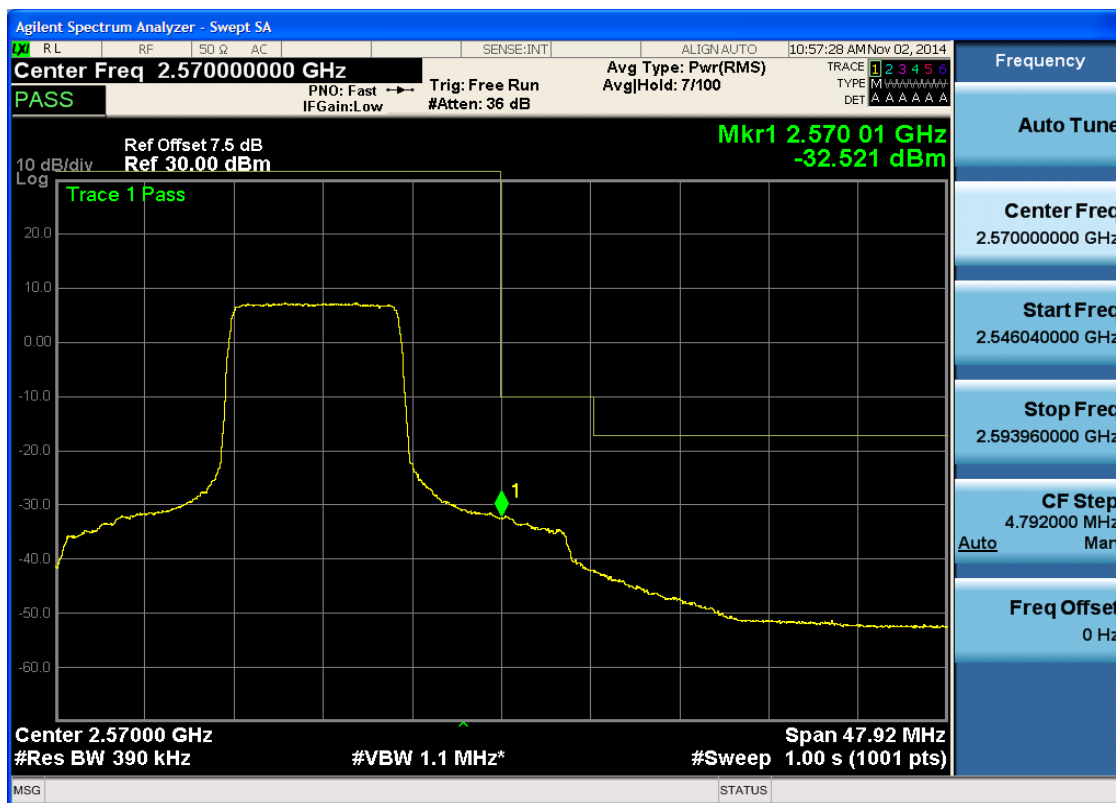


5.3.2.1.4.2.2 Test RB = RB1#99





5.3.2.1.4.2.3 Test RB = RB50#25





5.3.2.1.4.2.4 Test RB = RB100#0



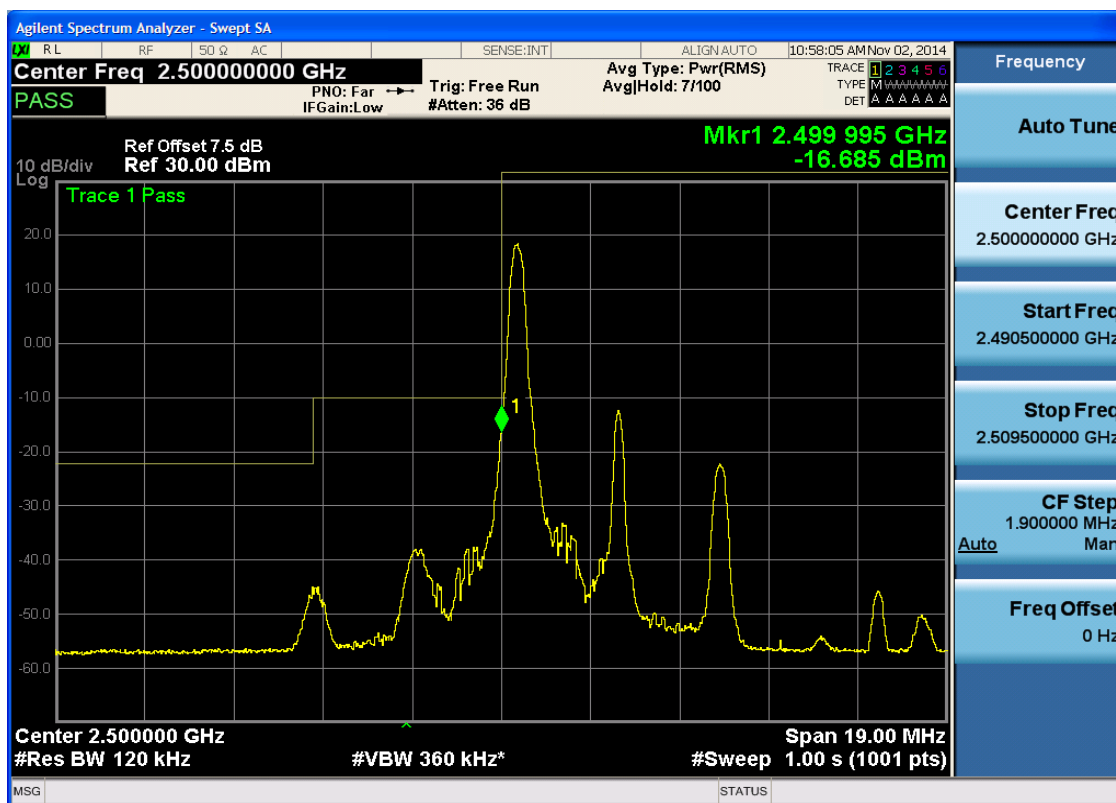


5.3.2.2 Test Mode = LTE/TM2

5.3.2.2.1 Test Bandwidth = 5

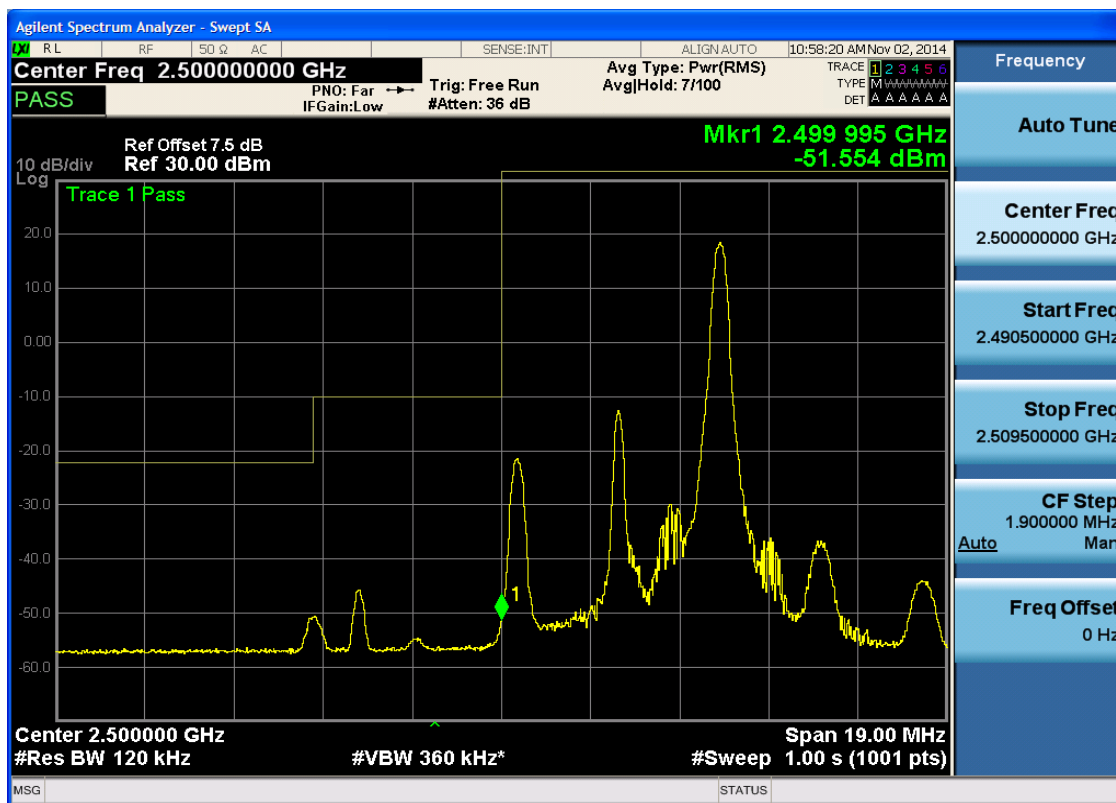
5.3.2.2.1.1 Test Channel = LCH

5.3.2.2.1.1.1 Test RB = RB1#0





5.3.2.2.1.1.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

☒ R L RF 50 Ω AC SENSE:INT ALIGN:AUTO 10:58:34 AM Nov 02, 2014

Center Freq 2.50000000 GHz Avg Type: Pwr(RMS) TRACE 1 2 3 4 5 6
PASS PNO: Far → Trg: Free Run Avg/Hold: 7/100 TYPE M A A A A A A
 IF Gain: Low #Atten: 36 dB DET A A A A A A A

10 dB/div Ref Offset 7.5 dB **Mkr1 2.499 995 GHz**
 Log Ref 30.00 dBm **-26.611 dBm**

Center 2.500000 GHz Span 19.00 MHz
#Res BW 120 kHz #VBW 360 kHz* #Sweep 1.00 s (1001 pts)

MSG STATUS

Frequency
 Auto Tune
 Center Freq 2.50000000 GHz
 Start Freq 2.490500000 GHz
 Stop Freq 2.509500000 GHz
 CF Step 1.900000 MHz
 Man
 Freq Offset 0 Hz



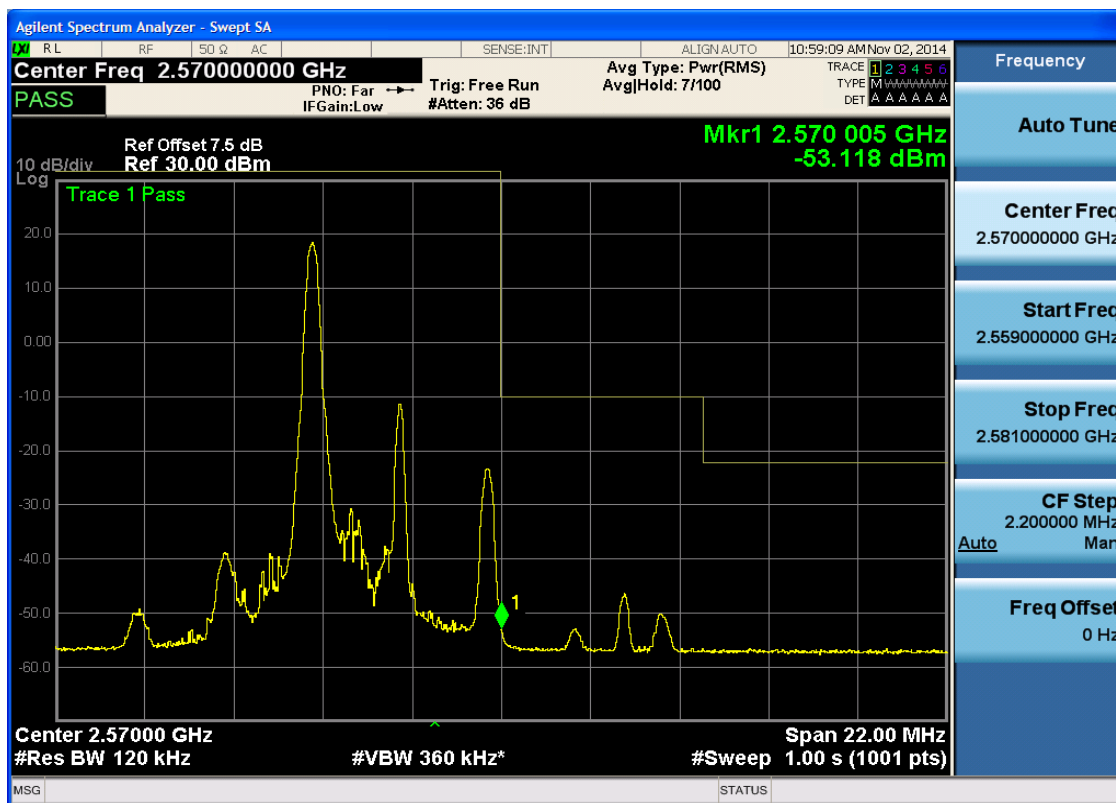
5.3.2.2.1.1.4 Test RB = RB25#0





5.3.2.2.1.2 Test Channel = HCH

5.3.2.2.1.2.1 Test RB = RB1#0



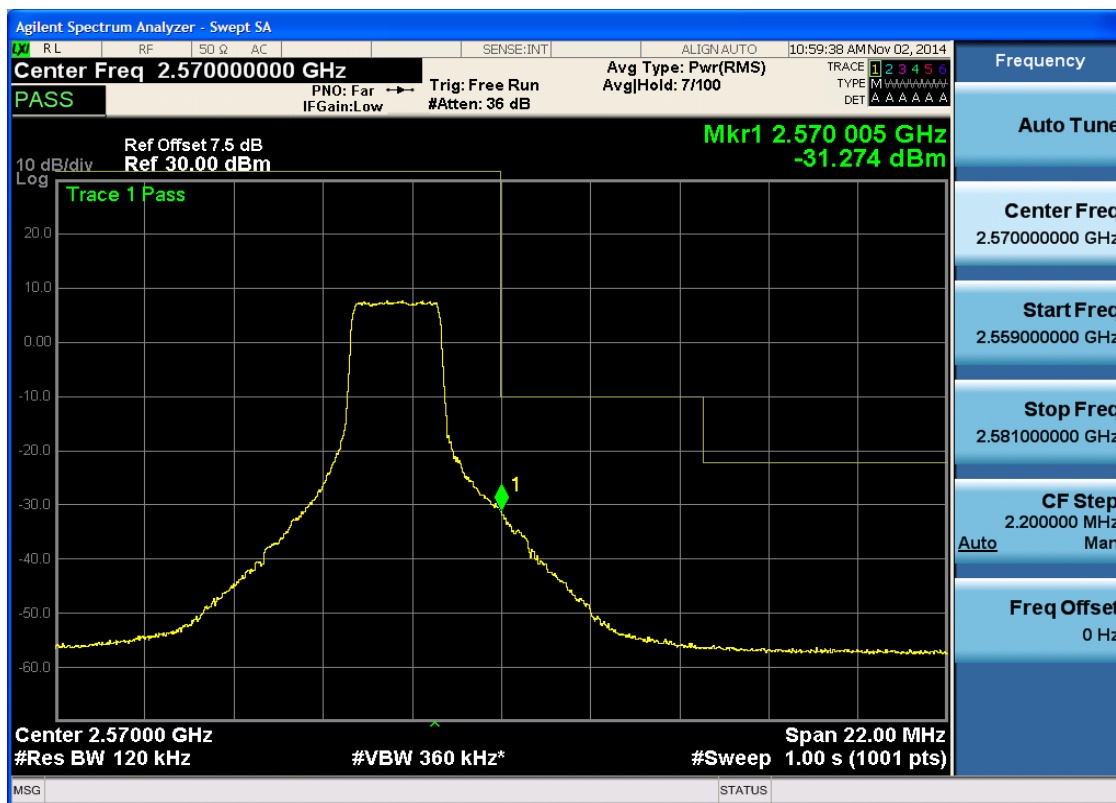


5.3.2.2.1.2.2 Test RB = RB1#24





5.3.2.2.1.2.3 Test RB = RB12#6





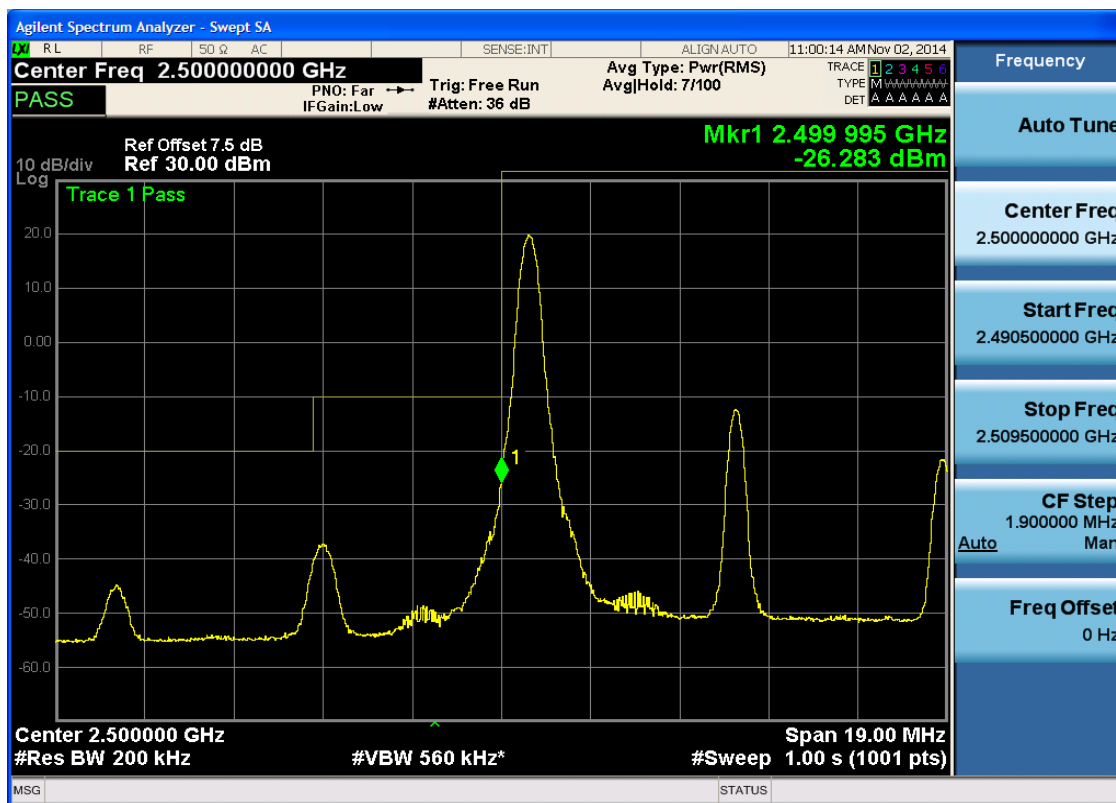
5.3.2.2.1.2.4 Test RB = RB25#0



5.3.2.2.2 Test Bandwidth = 10

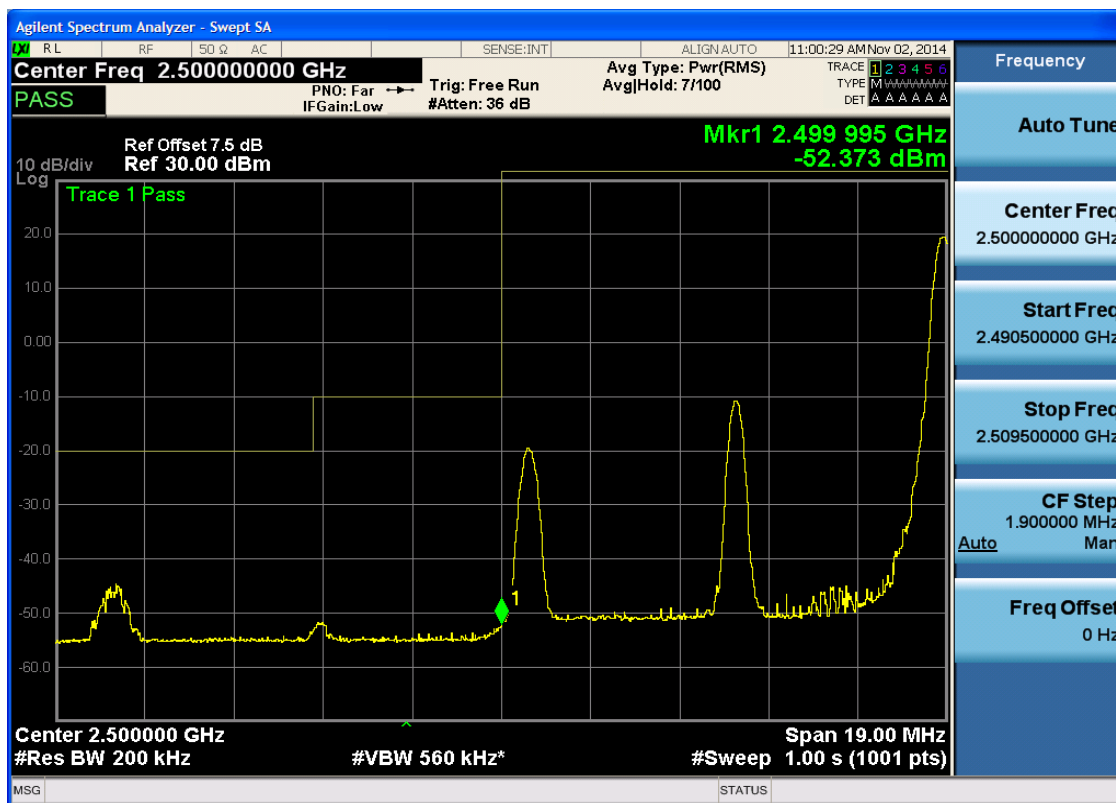
5.3.2.2.2.1 Test Channel = LCH

5.3.2.2.2.1.1 Test RB = RB1#0



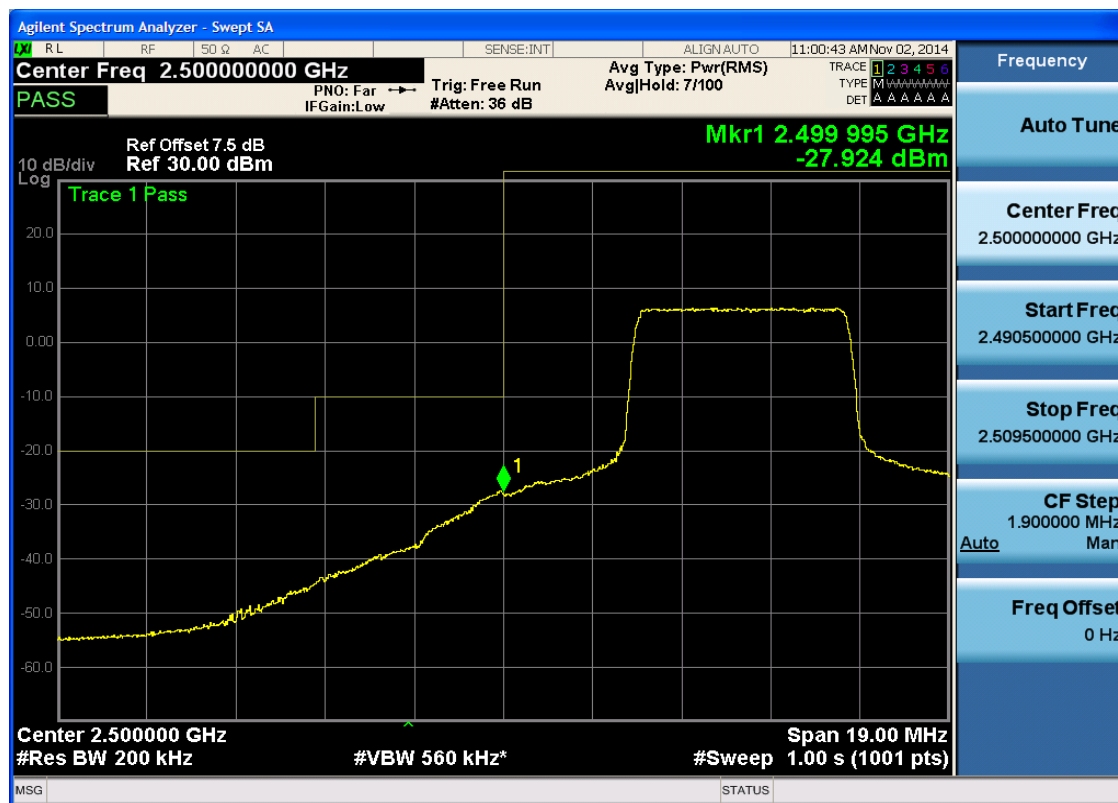


5.3.2.2.1.2 Test RB = RB1#49



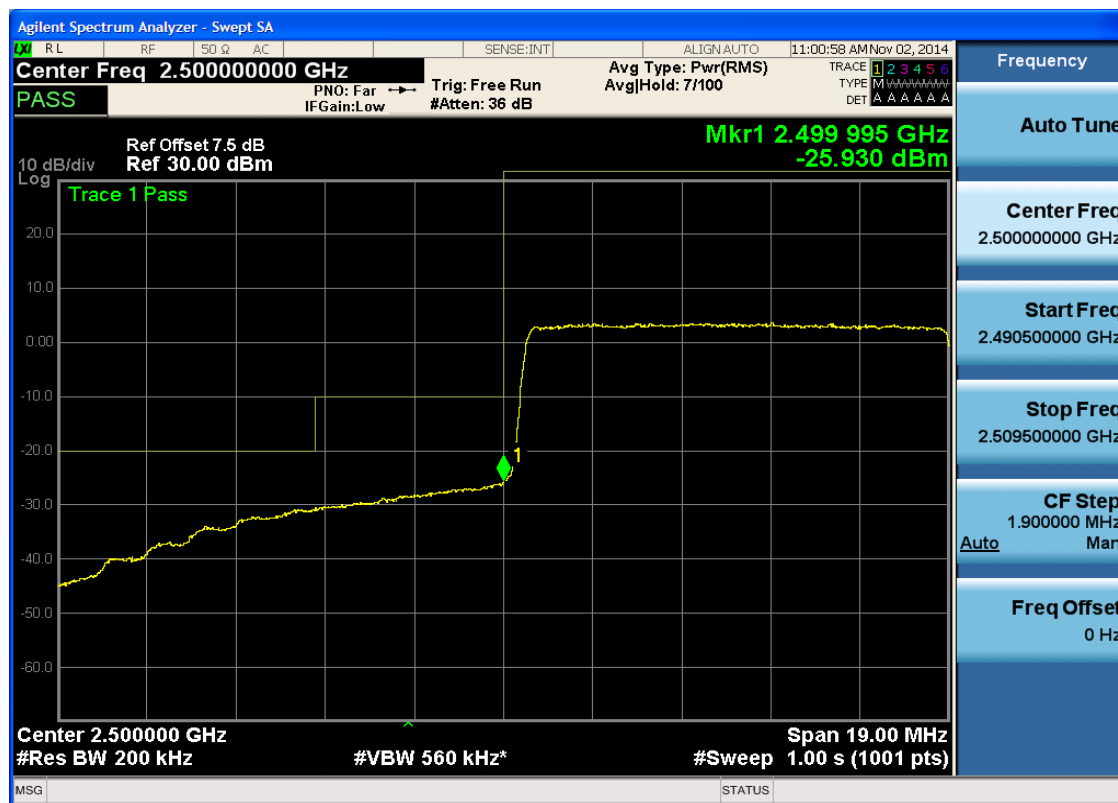


5.3.2.2.2.1.3 Test RB = RB25#13





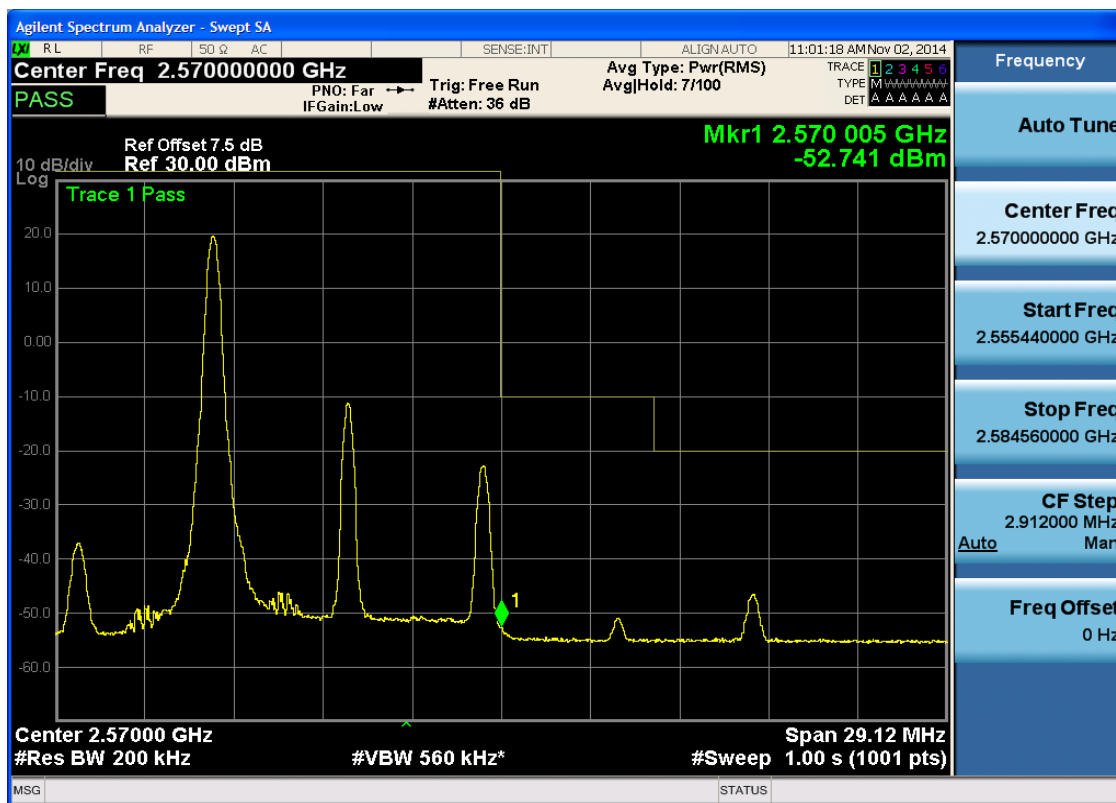
5.3.2.2.2.1.4 Test RB = RB50#0





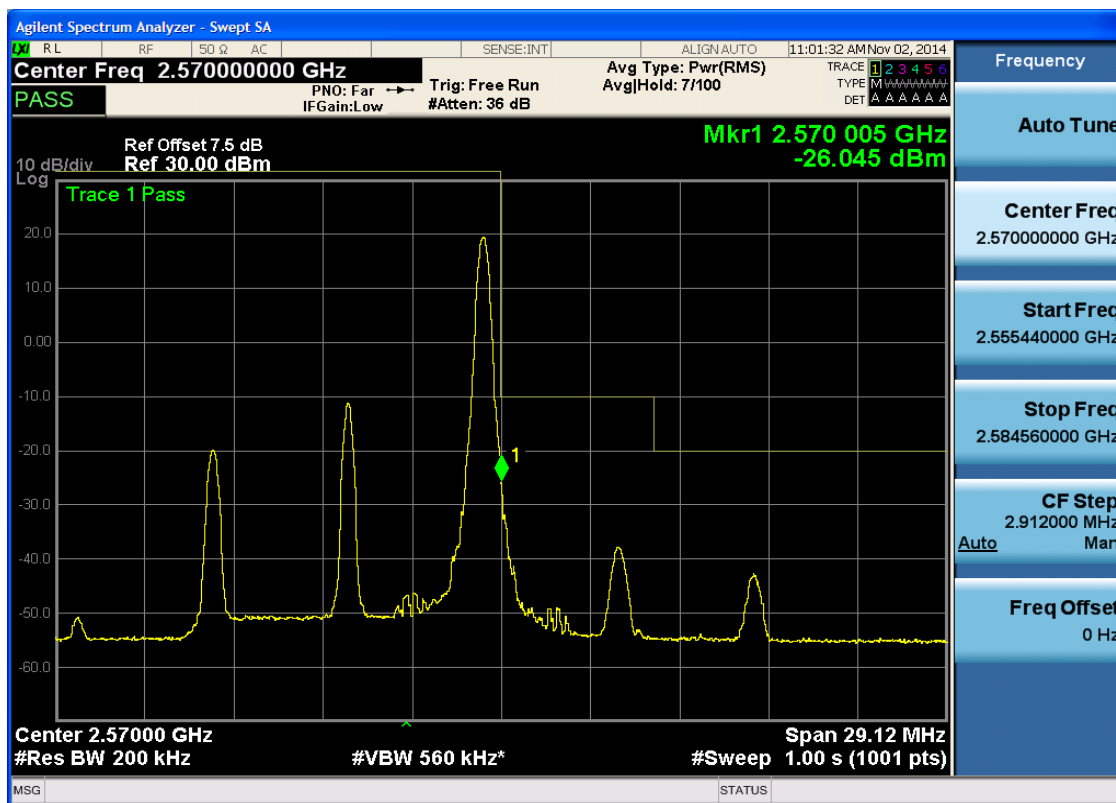
5.3.2.2.2 Test Channel = HCH

5.3.2.2.2.1 Test RB = RB1#0



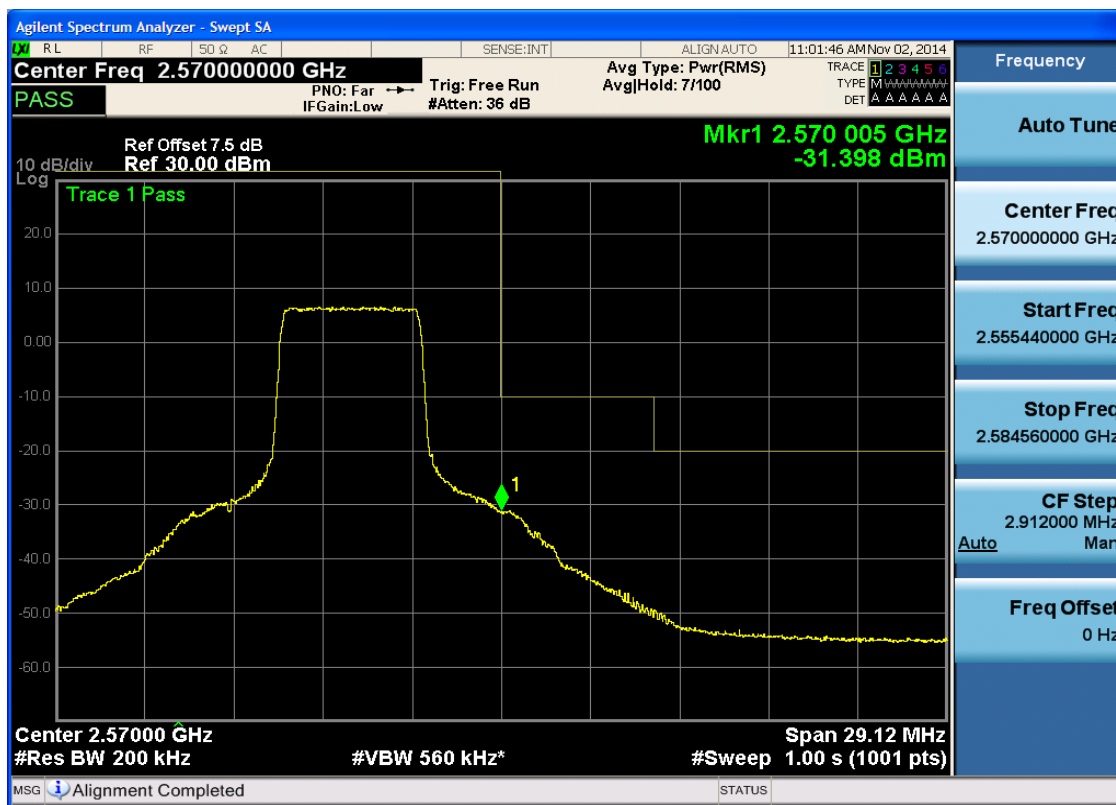


5.3.2.2.2.2 Test RB = RB1#49





5.3.2.2.2.3 Test RB = RB25#13





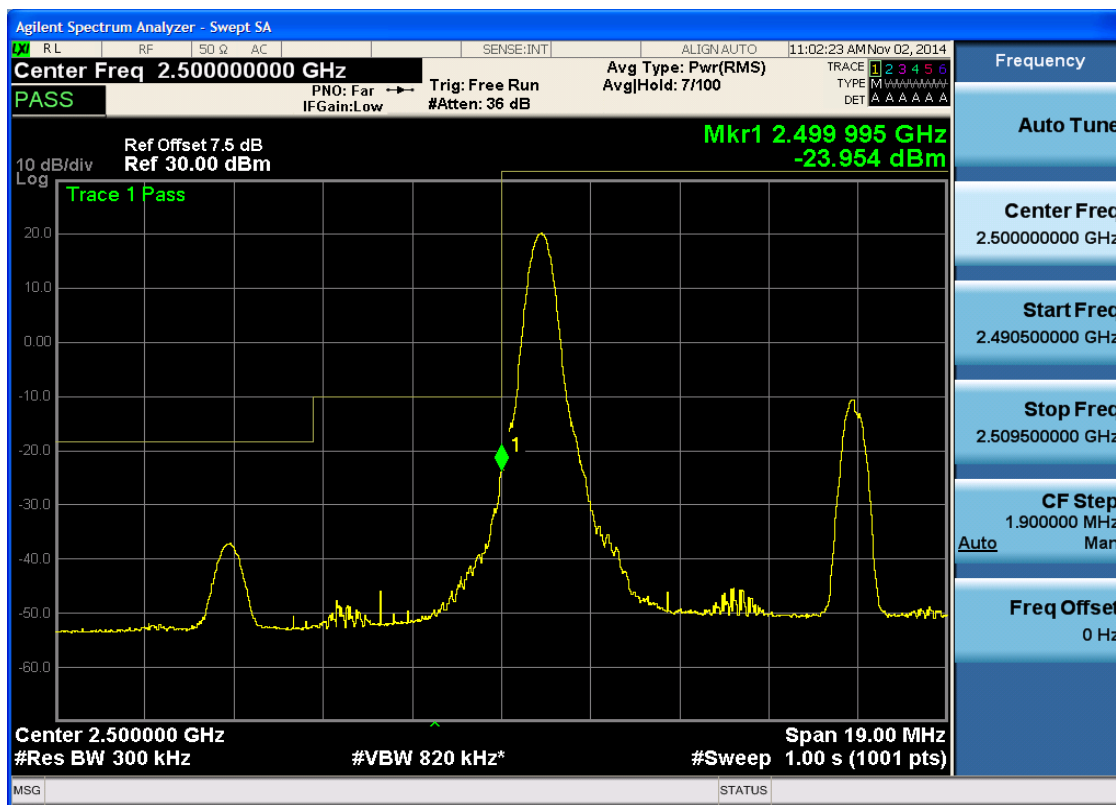
5.3.2.2.2.4 Test RB = RB50#0



5.3.2.2.3 Test Bandwidth = 15

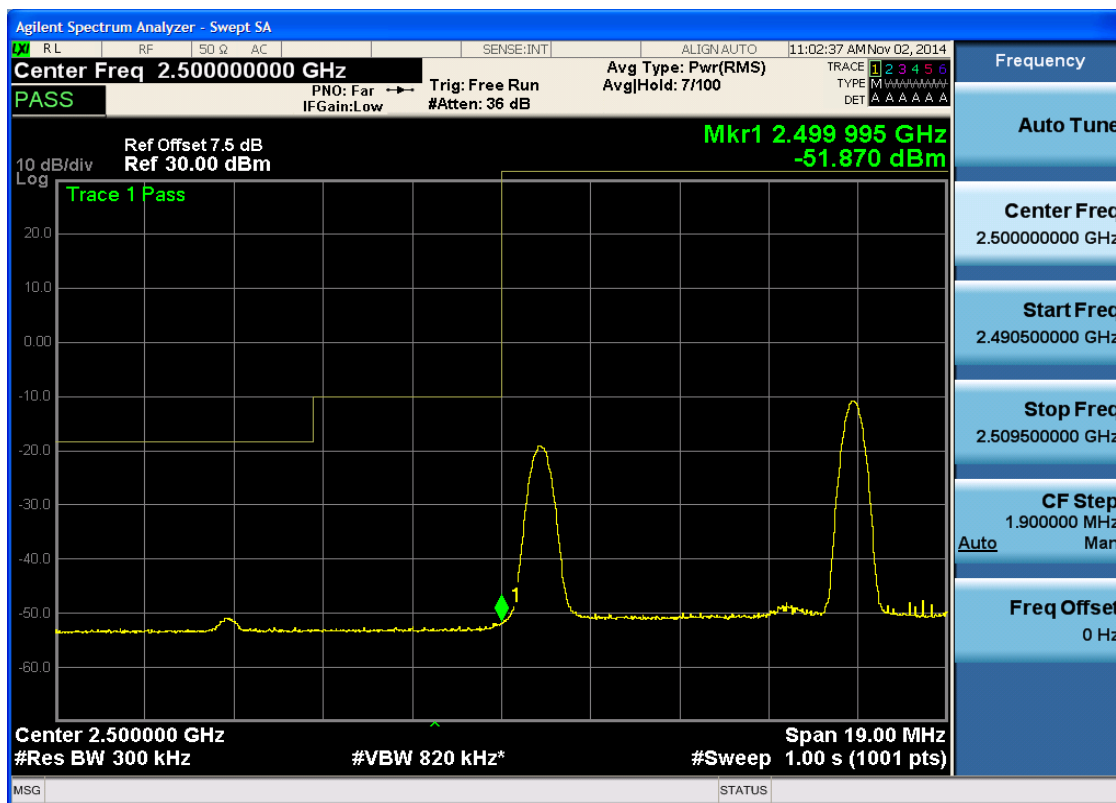
5.3.2.2.3.1 Test Channel = LCH

5.3.2.2.3.1.1 Test RB = RB1#0



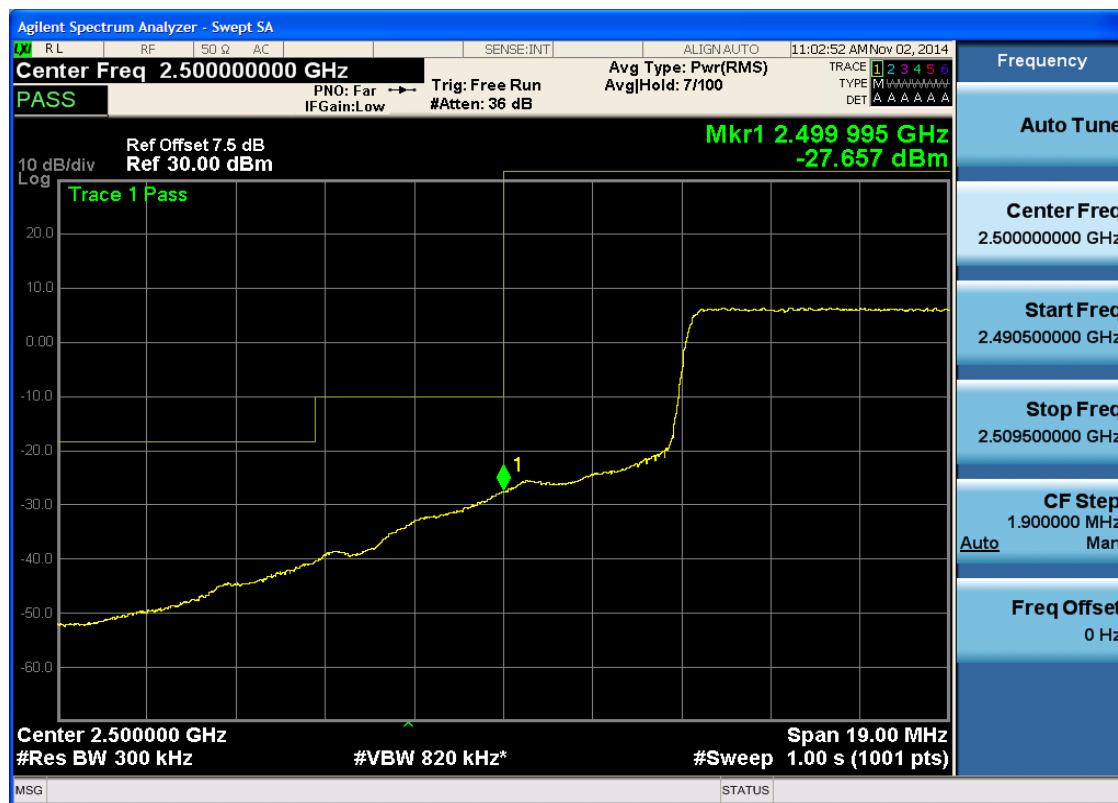


5.3.2.2.3.1.2 Test RB = RB1#74





5.3.2.2.3.1.3 Test RB = RB36#18





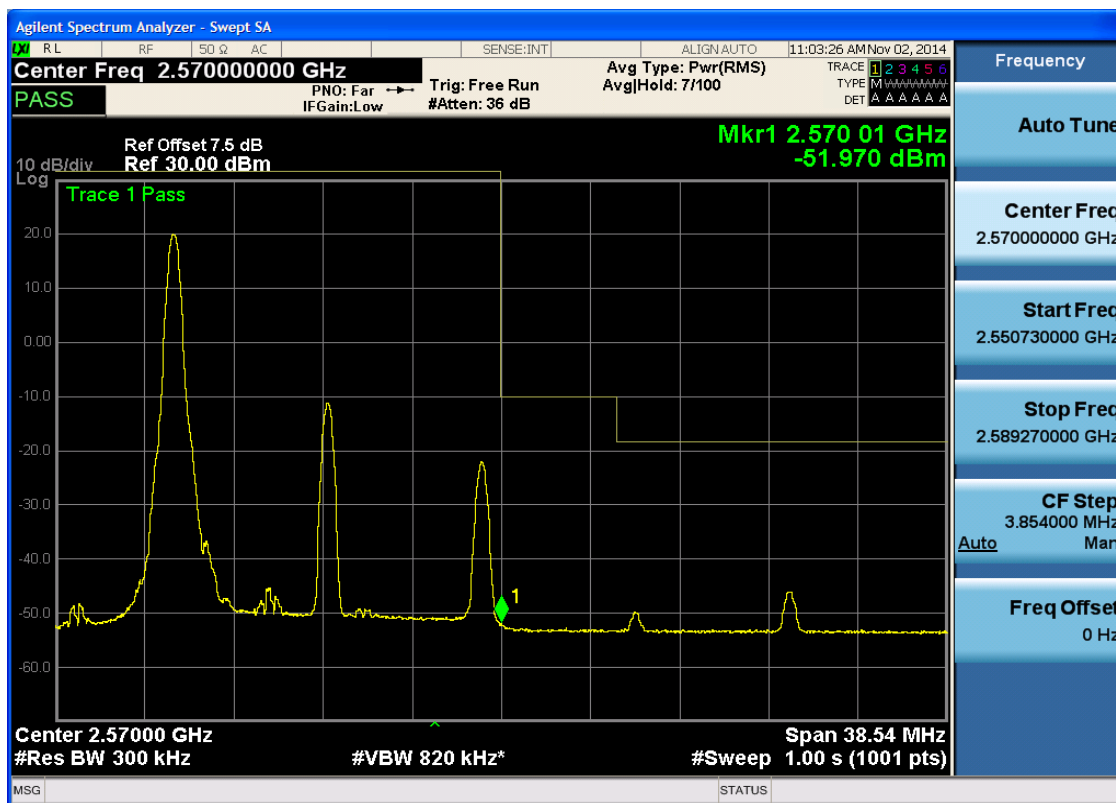
5.3.2.2.3.1.4 Test RB = RB75#0





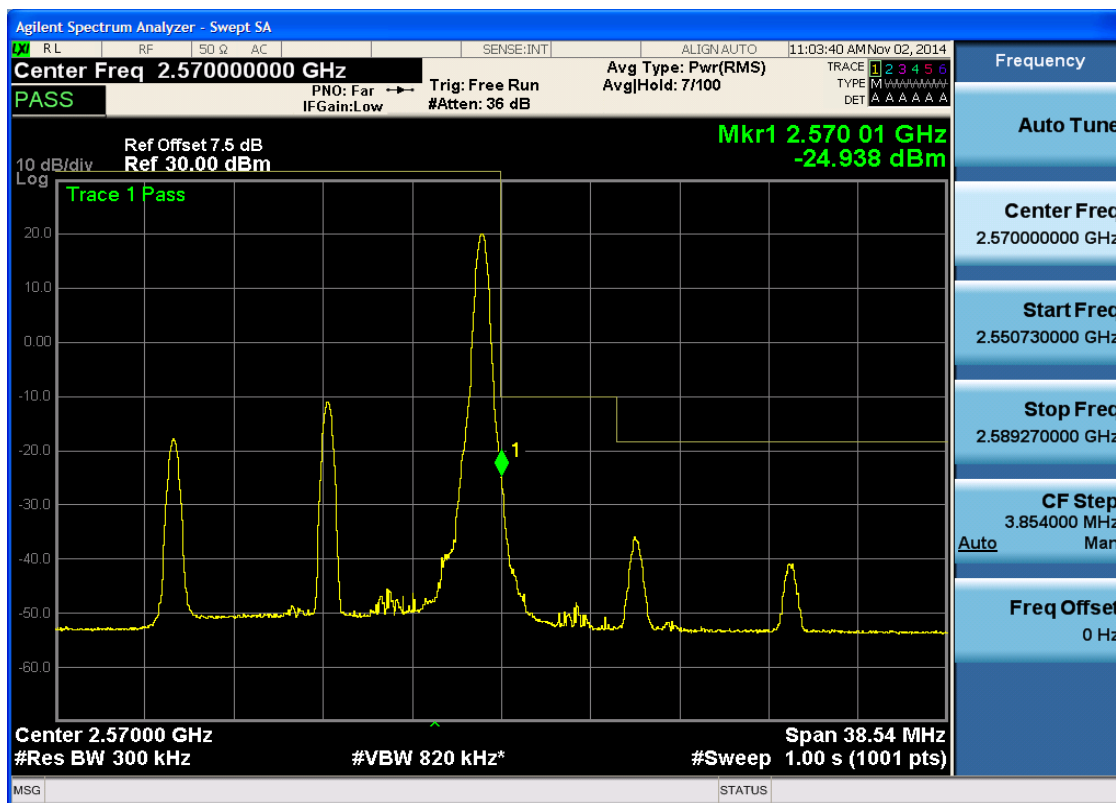
5.3.2.2.3.2 Test Channel = HCH

5.3.2.2.3.2.1 Test RB = RB1#0



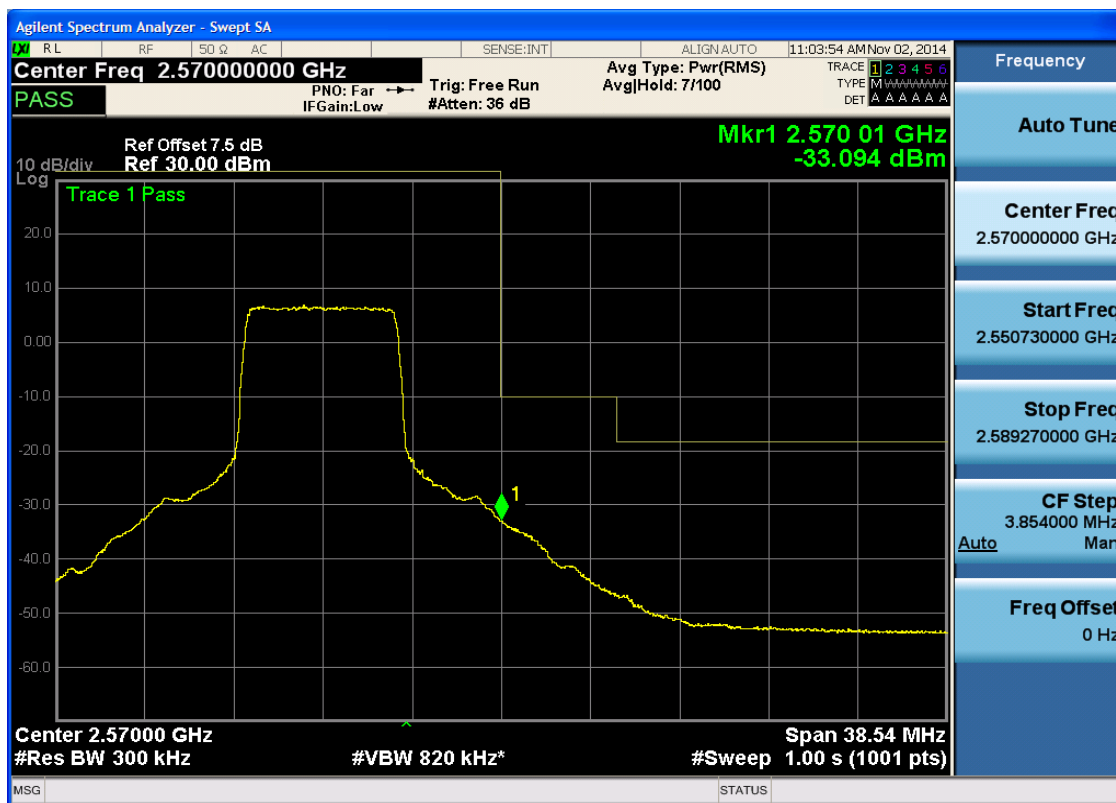


5.3.2.2.3.2 Test RB = RB1#74





5.3.2.2.3.2.3 Test RB = RB36#18





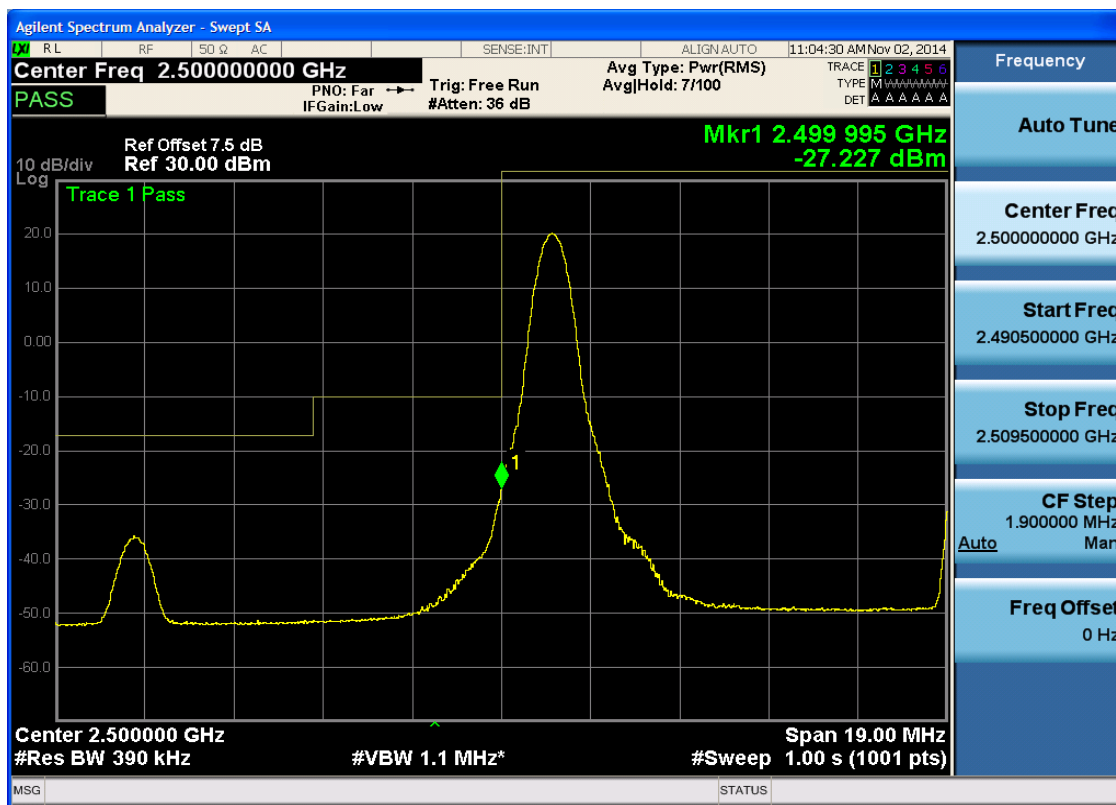
5.3.2.2.3.2.4 Test RB = RB75#0



5.3.2.2.4 Test Bandwidth = 20

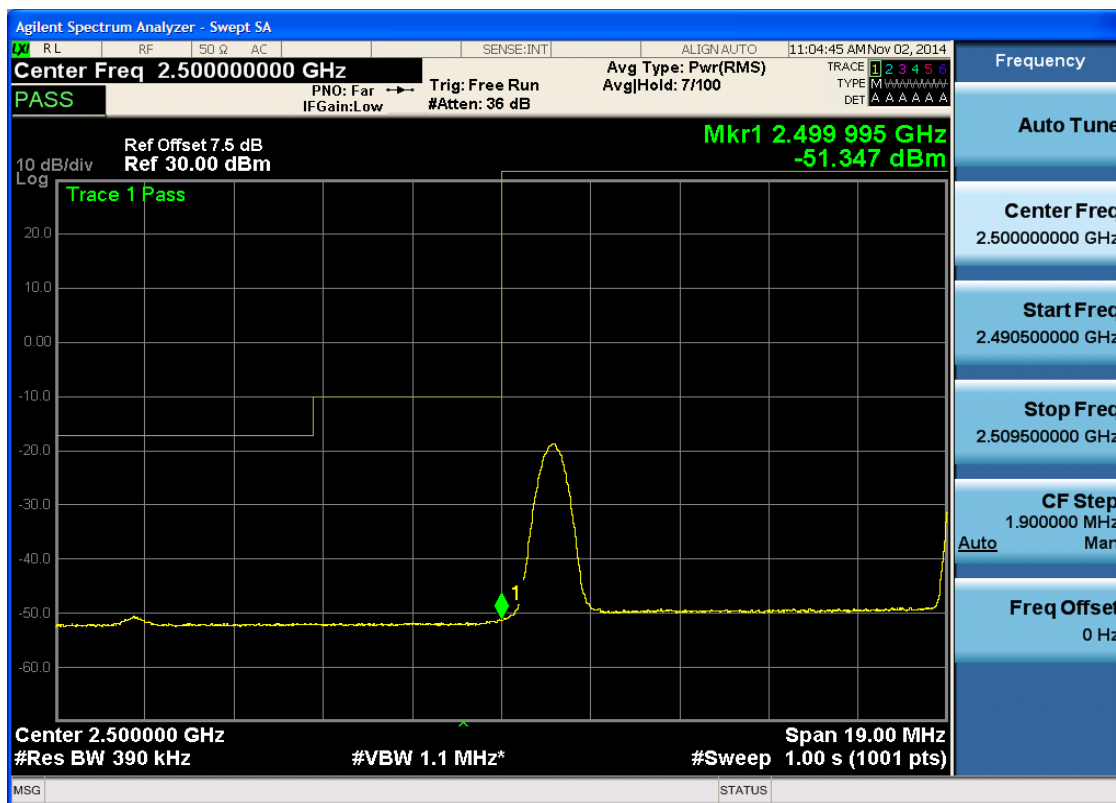
5.3.2.2.4.1 Test Channel = LCH

5.3.2.2.4.1.1 Test RB = RB1#0



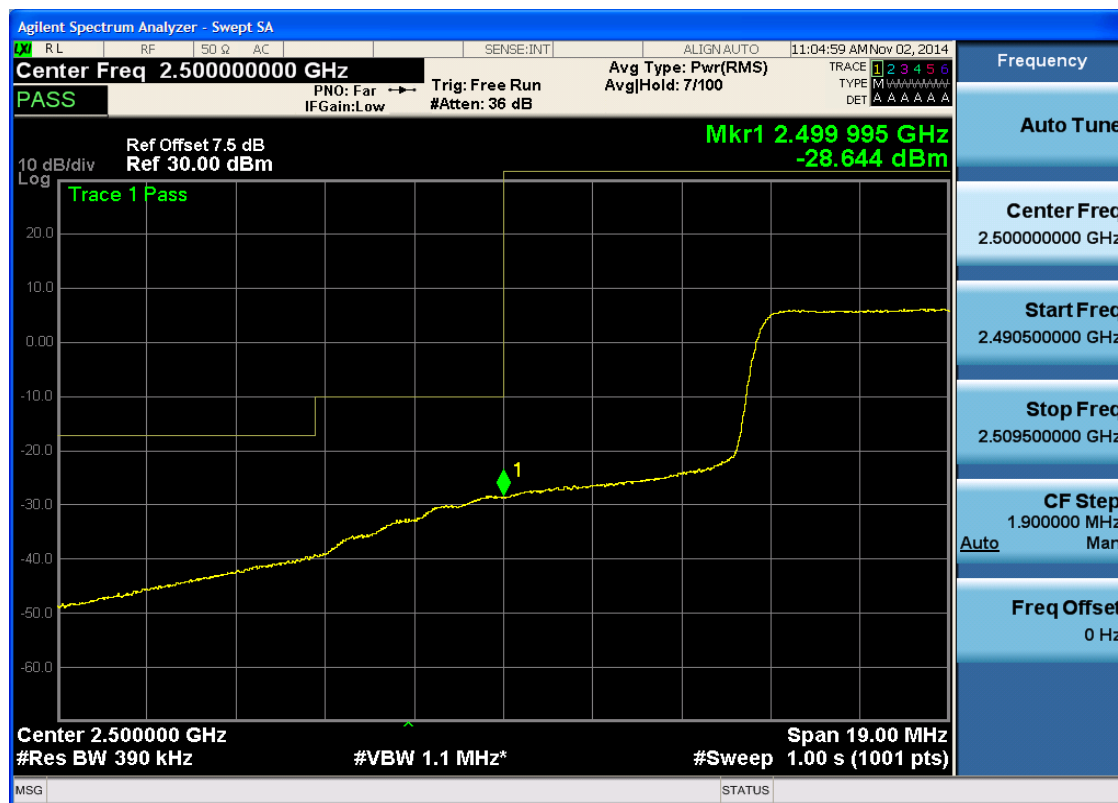


5.3.2.2.4.1.2 Test RB = RB1#99



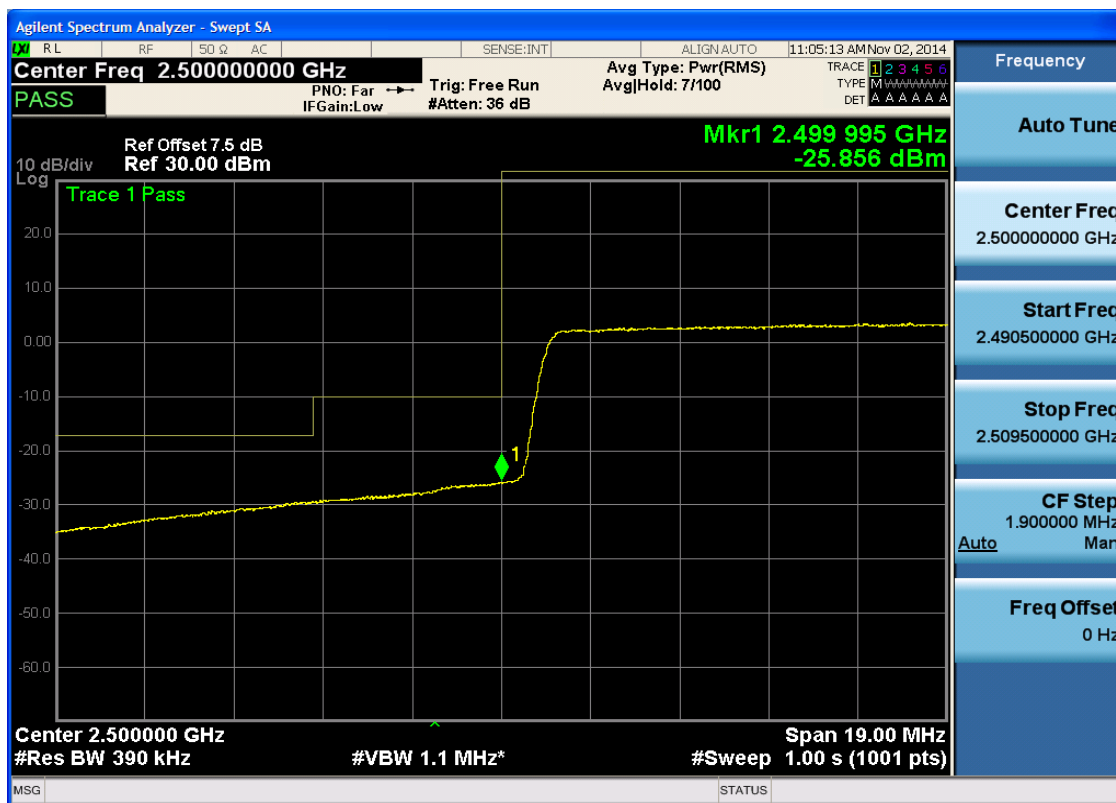


5.3.2.2.4.1.3 Test RB = RB50#25





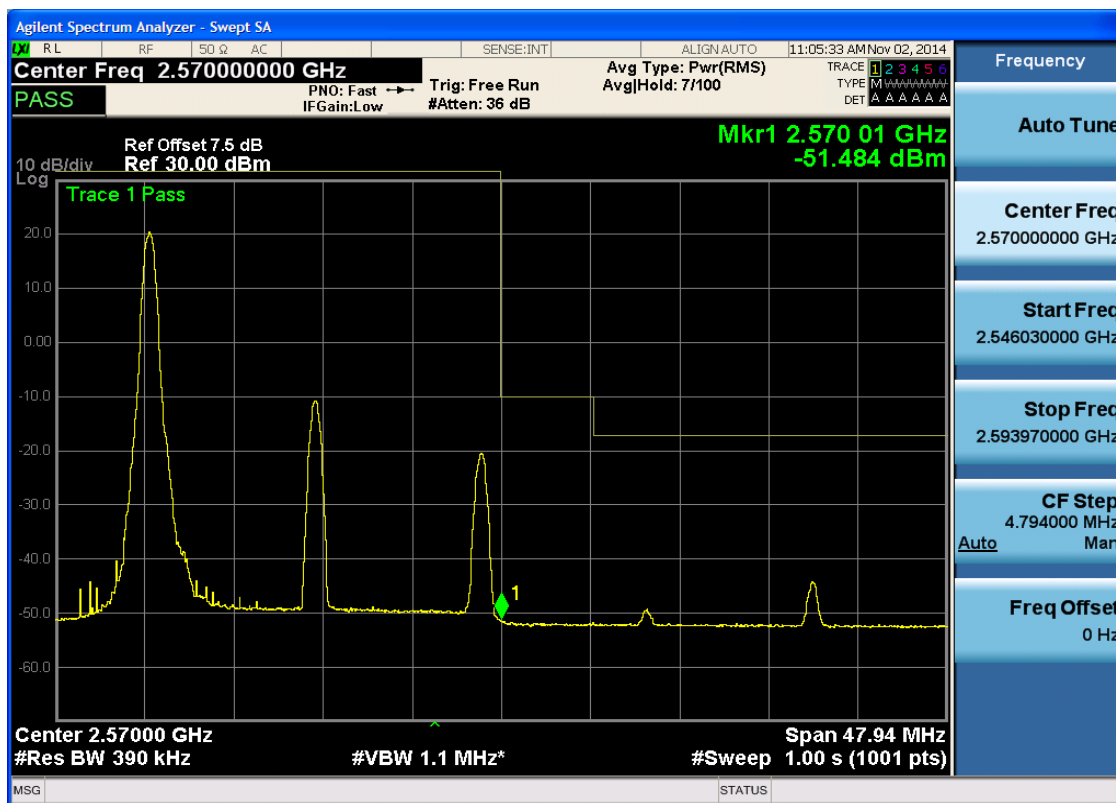
5.3.2.2.4.1.4 Test RB = RB100#0





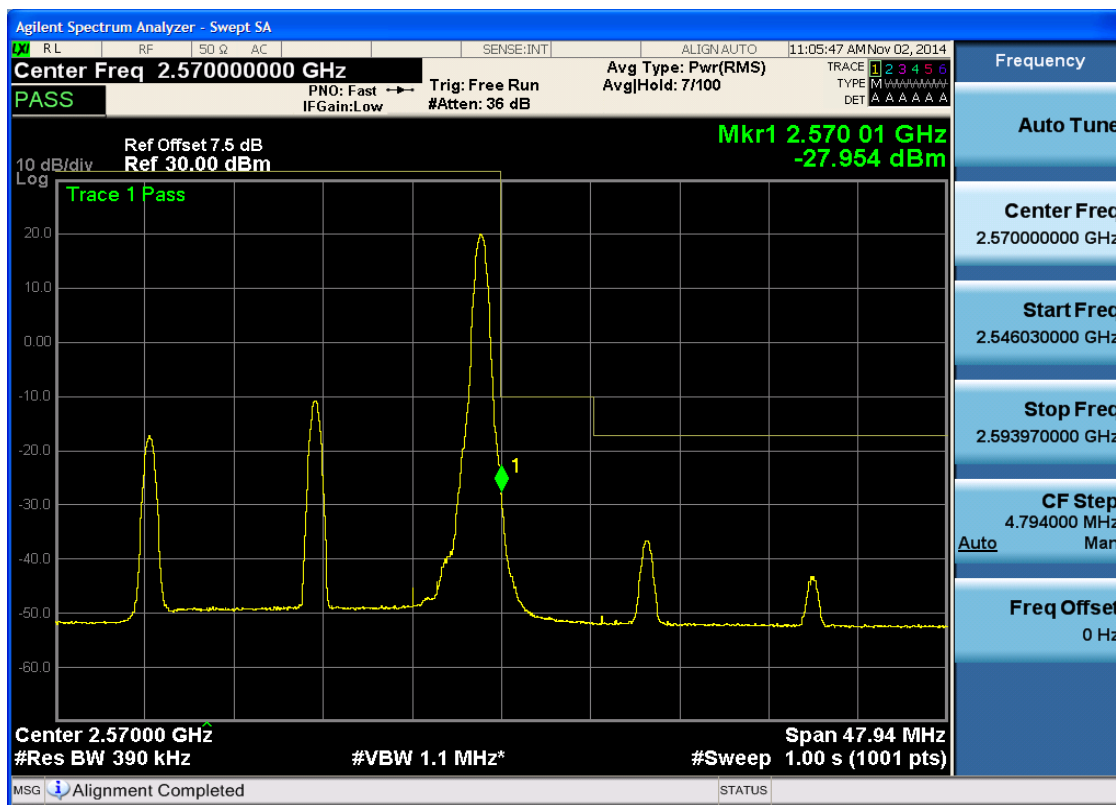
5.3.2.2.4.2 Test Channel = HCH

5.3.2.2.4.2.1 Test RB = RB1#0



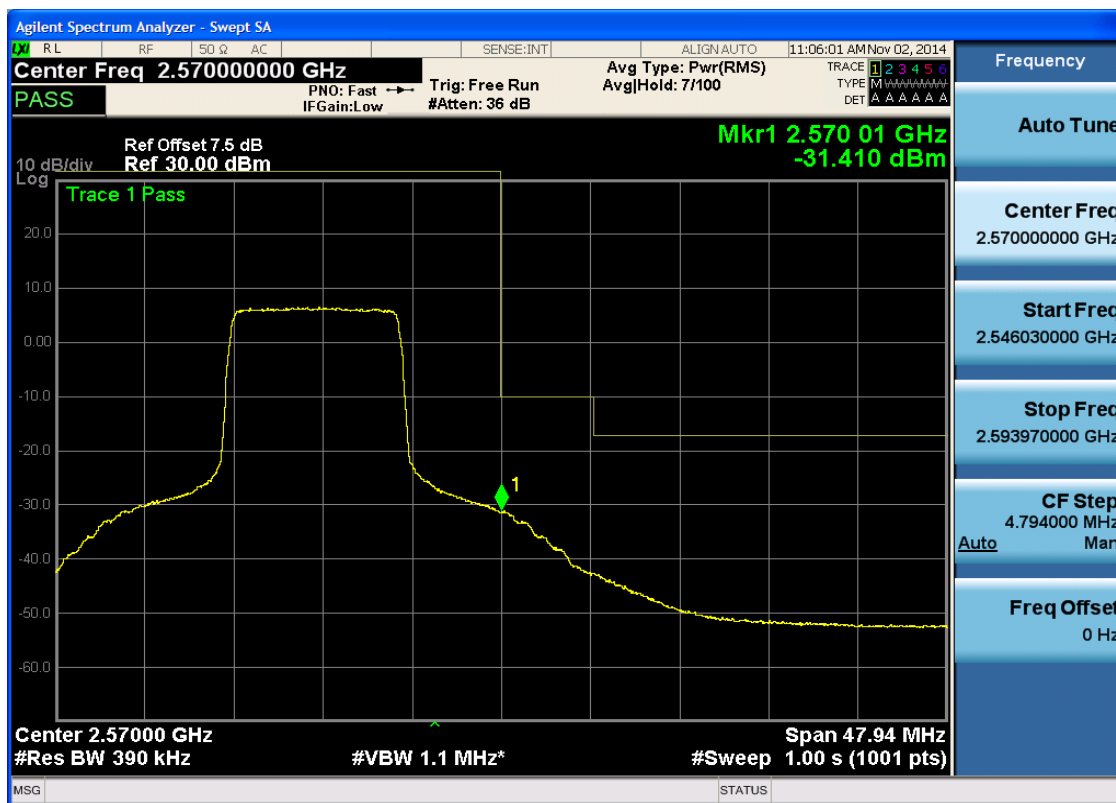


5.3.2.2.4.2.2 Test RB = RB1#99





5.3.2.2.4.2.3 Test RB = RB50#25





5.3.2.2.4.2.4 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.

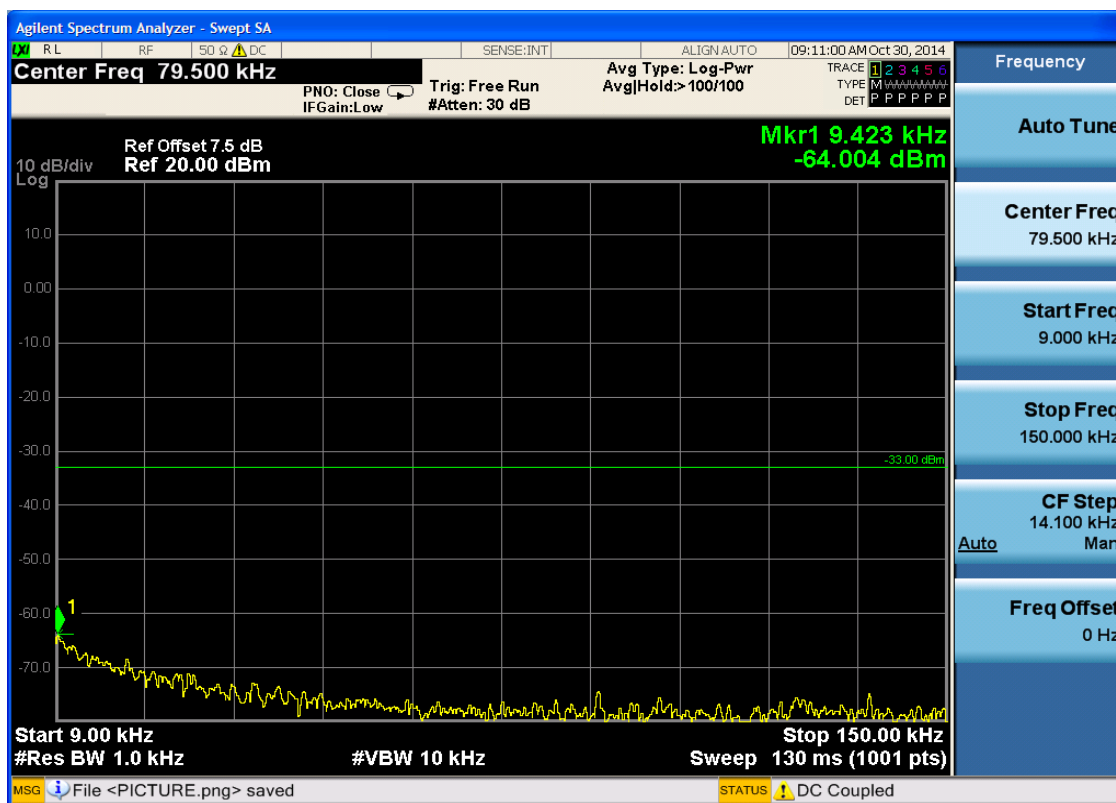
Part I - Test Plots

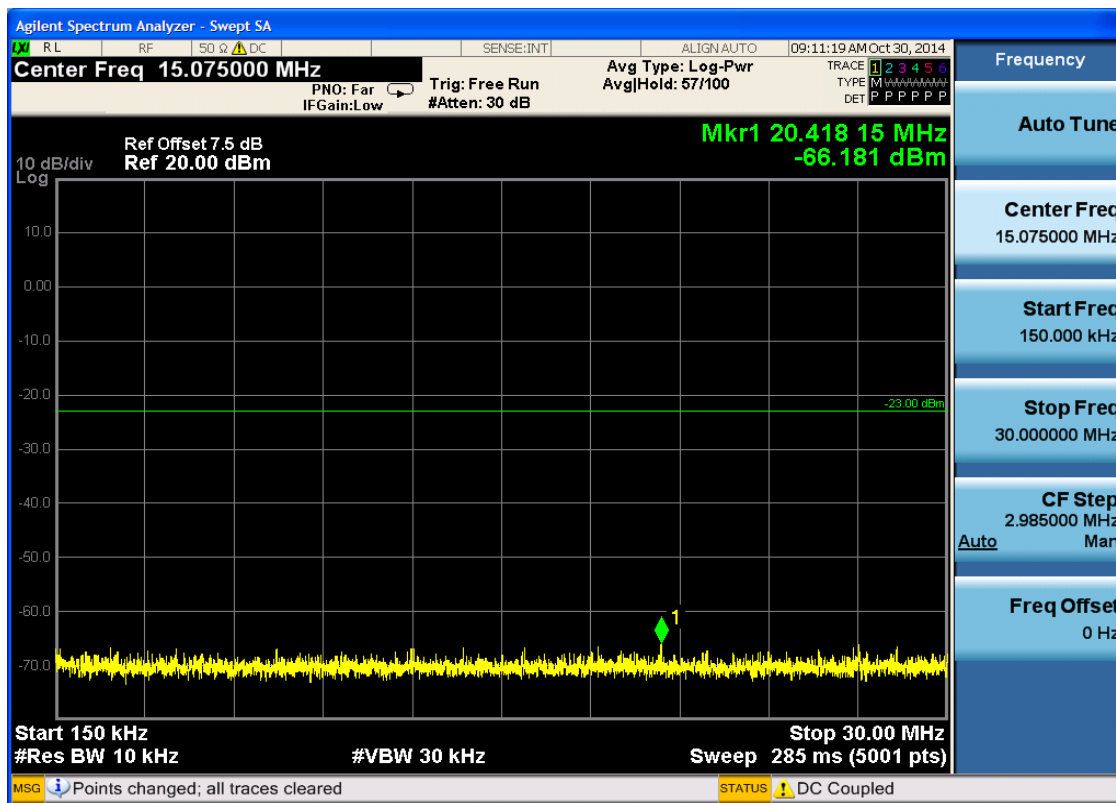
6.1 For GSM

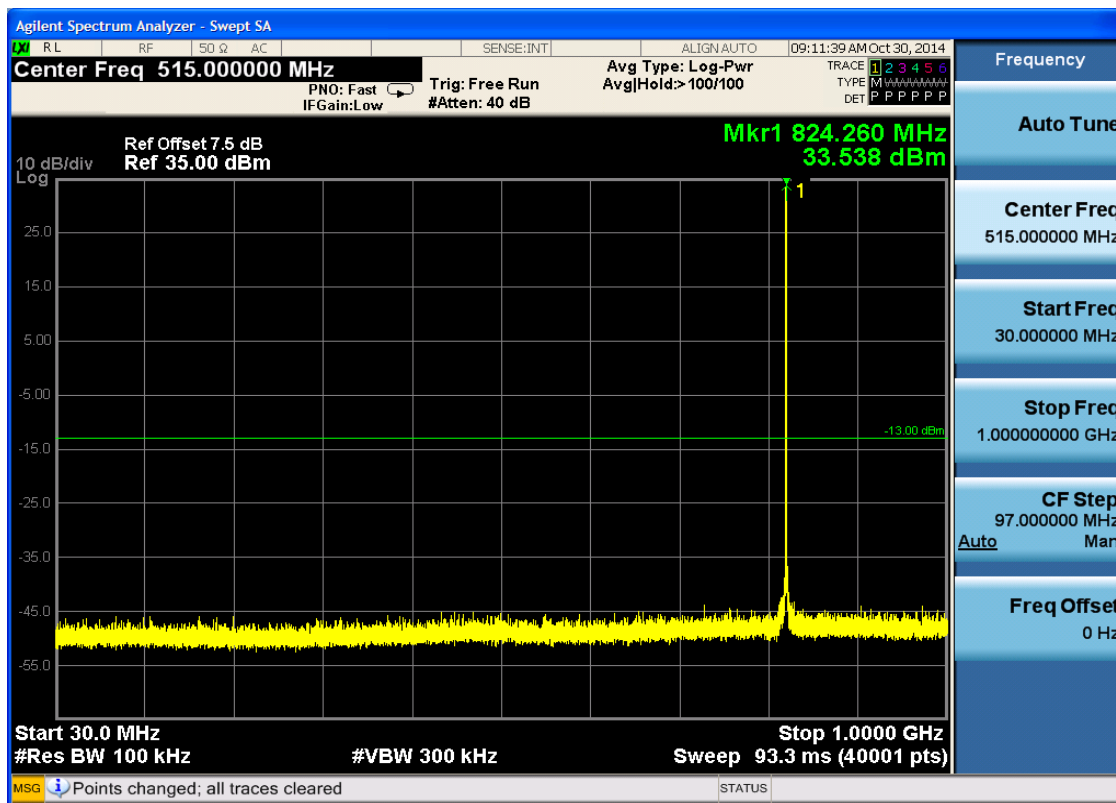
6.1.1 Test Band = GSM850

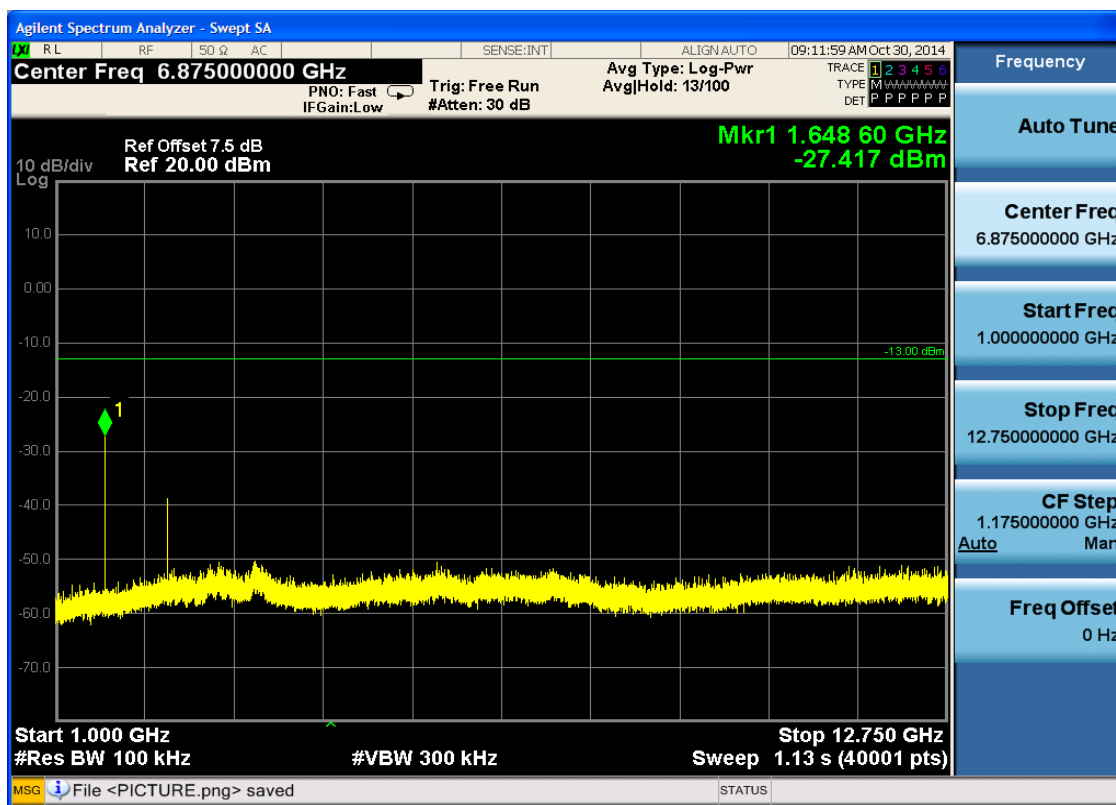
6.1.1.1 Test Mode = GSM/TM1

6.1.1.1.1 Test Channel = LCH



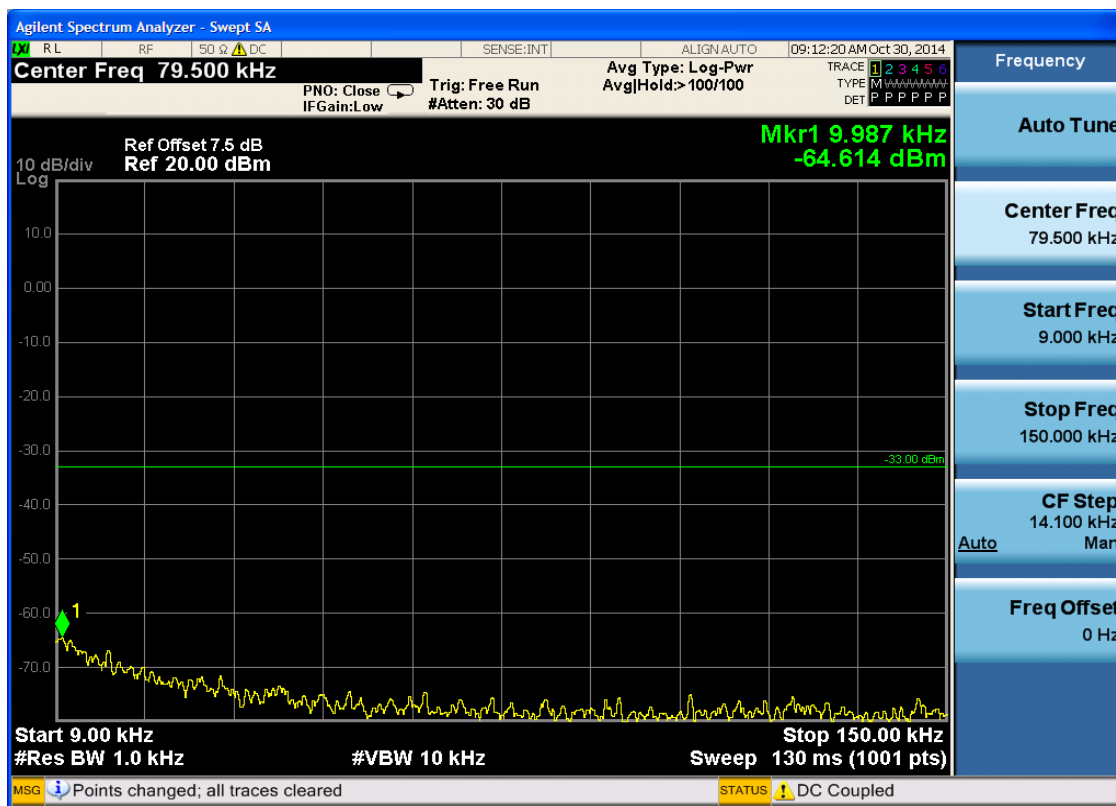


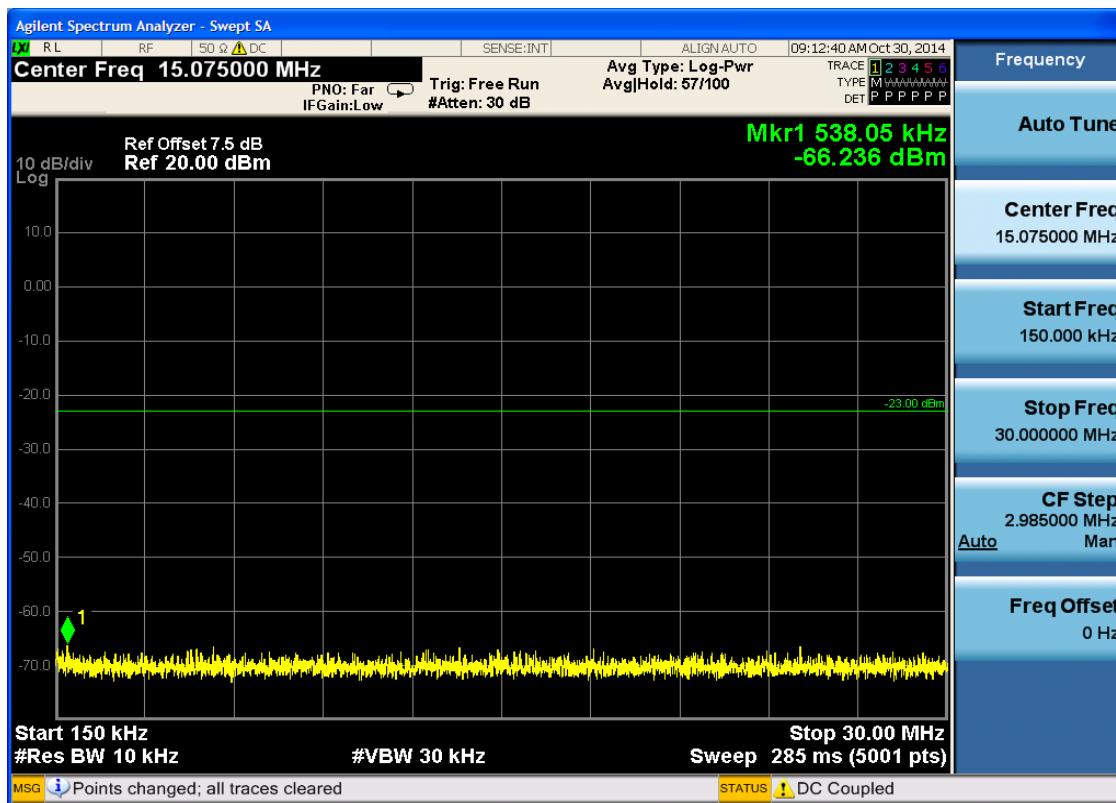


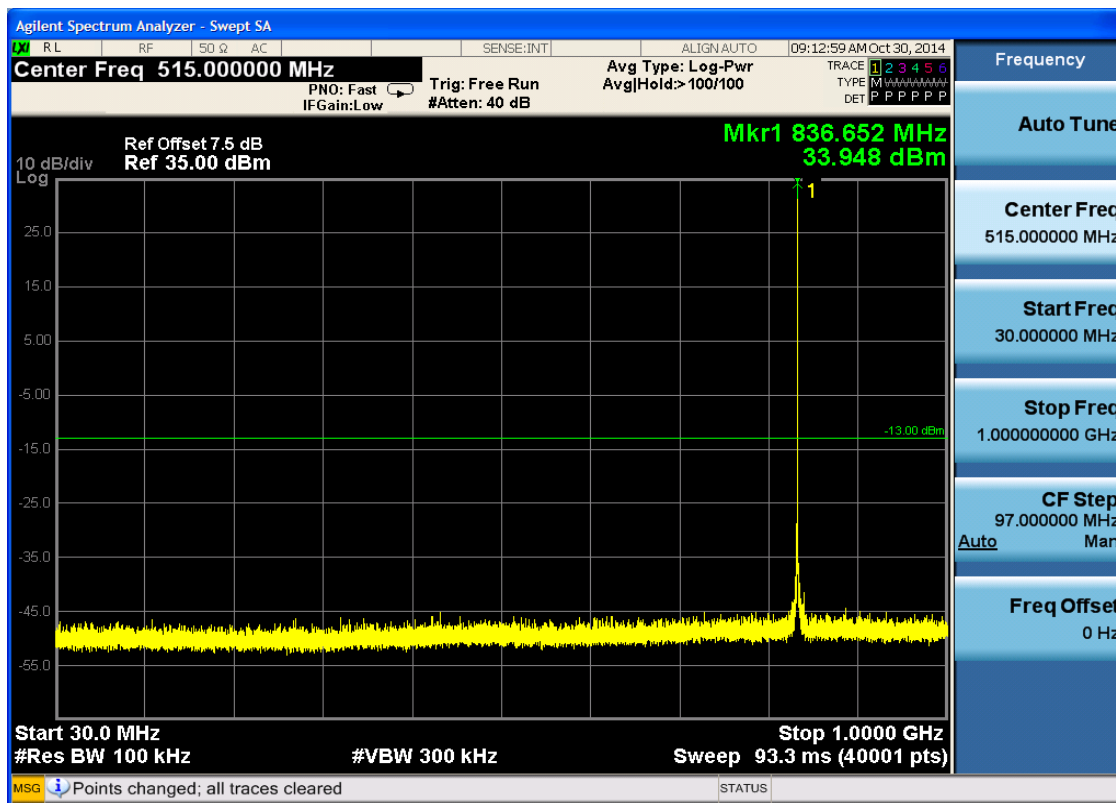


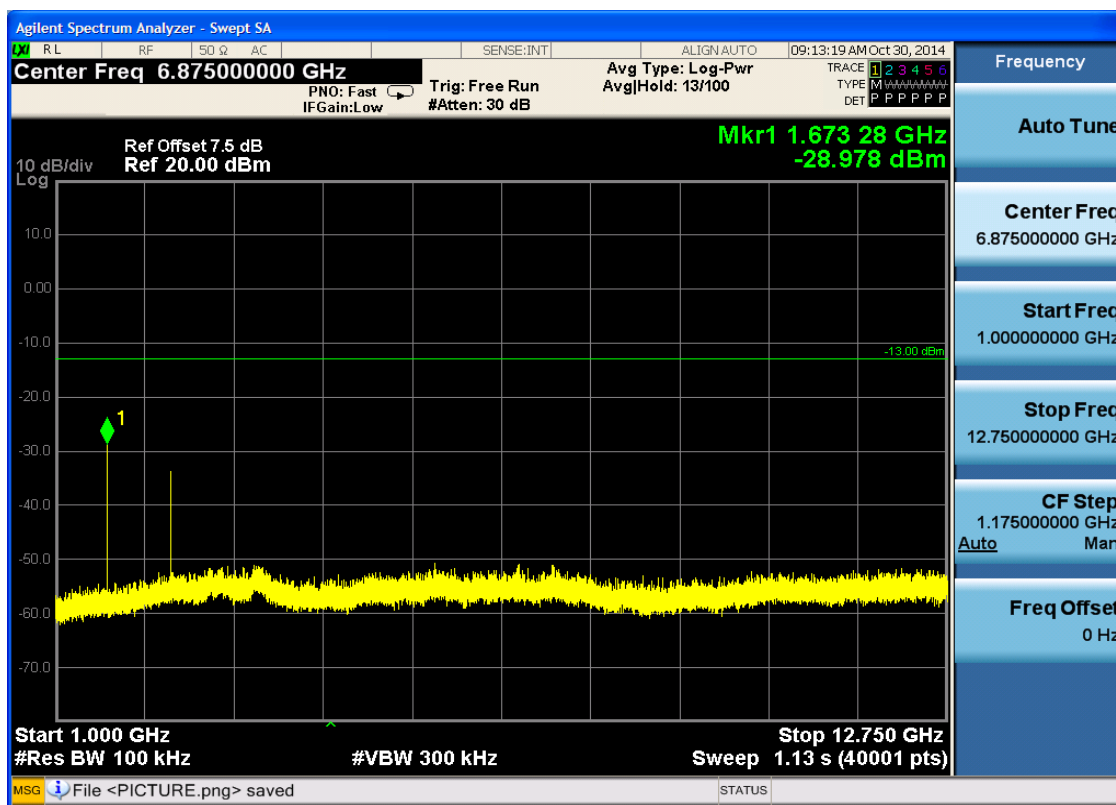


6.1.1.1.2 Test Channel = MCH

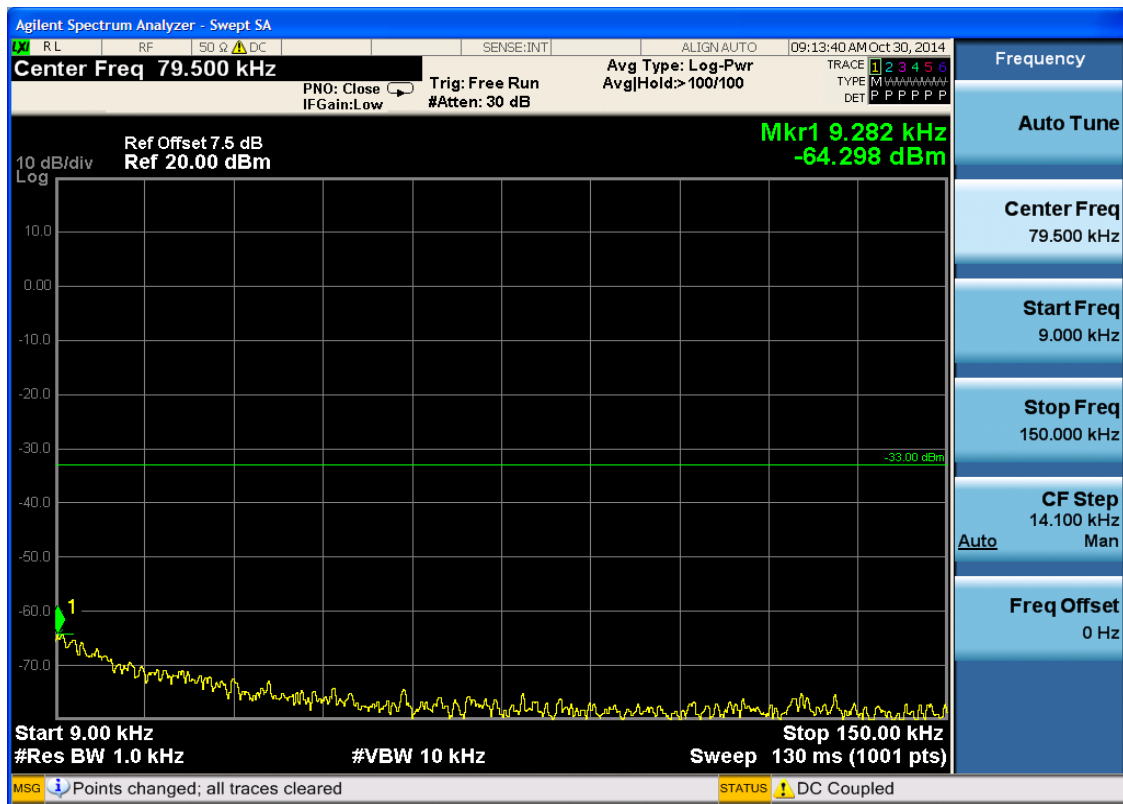


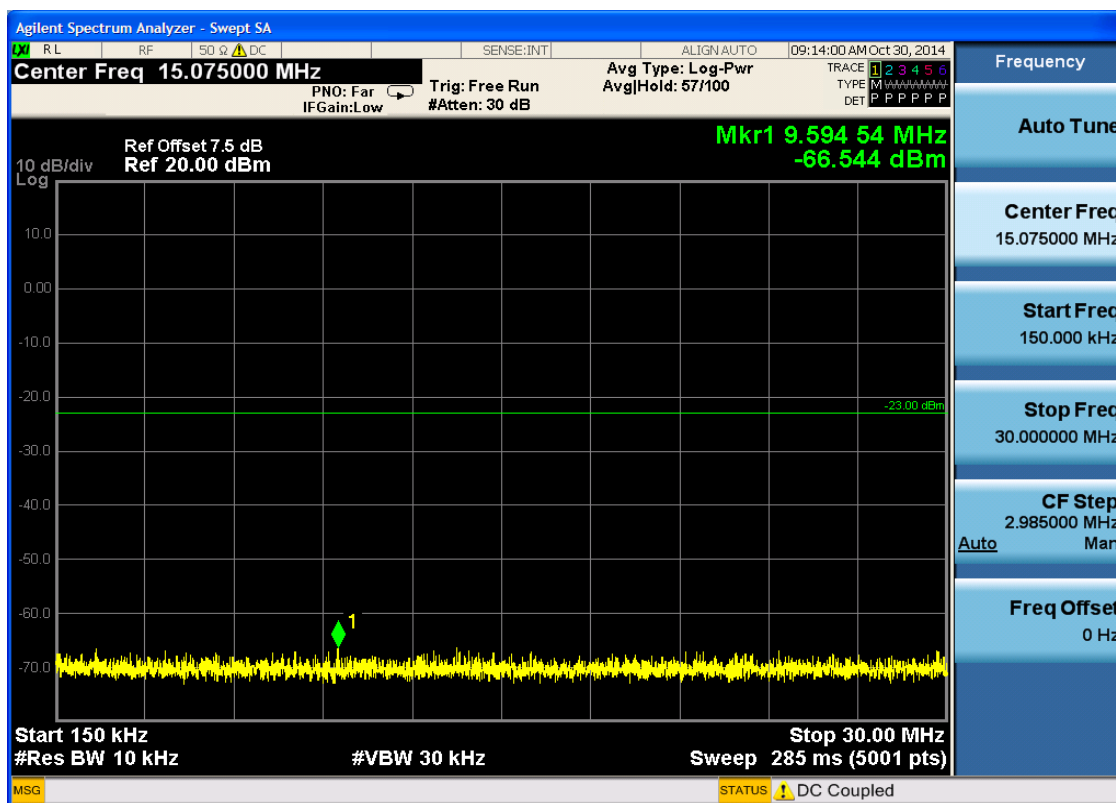


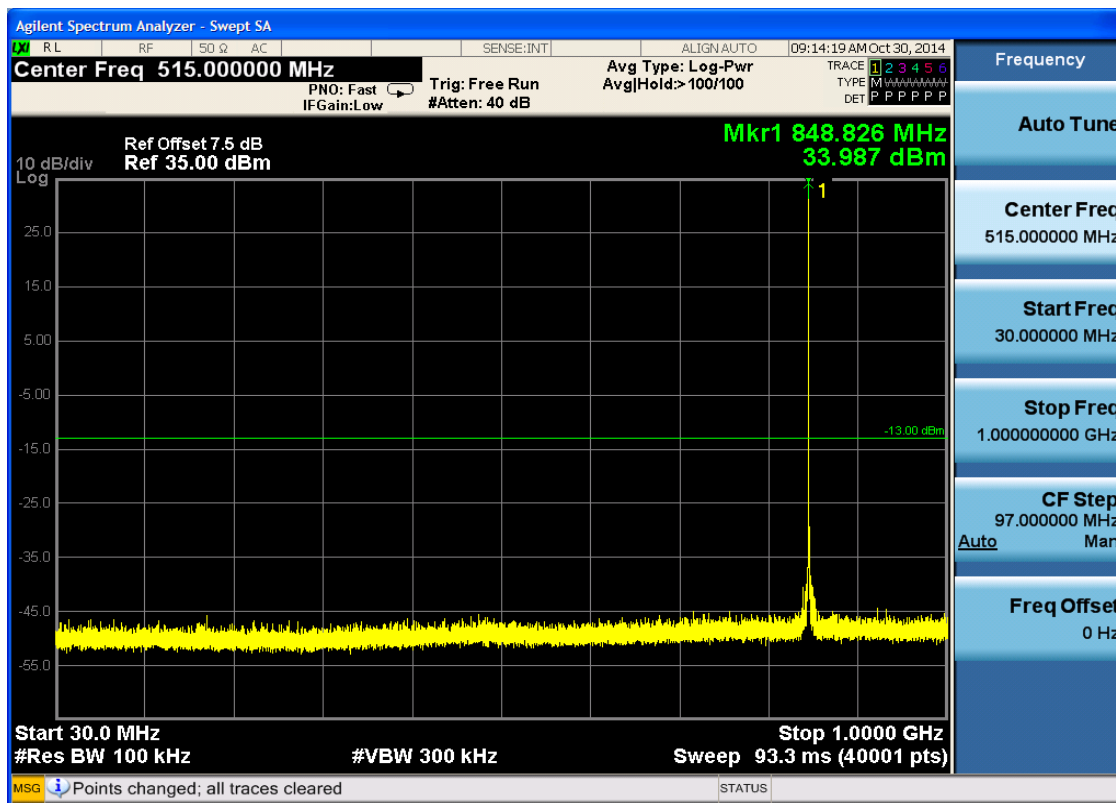


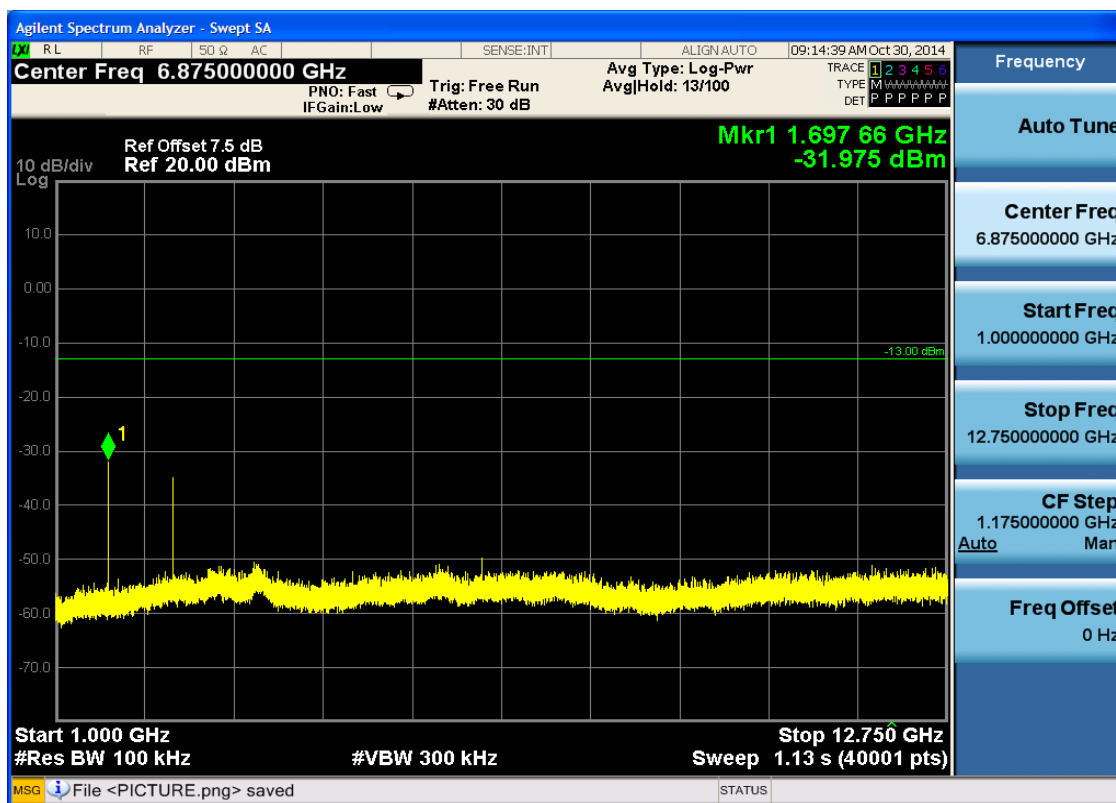


6.1.1.1.3 Test Channel = HCH



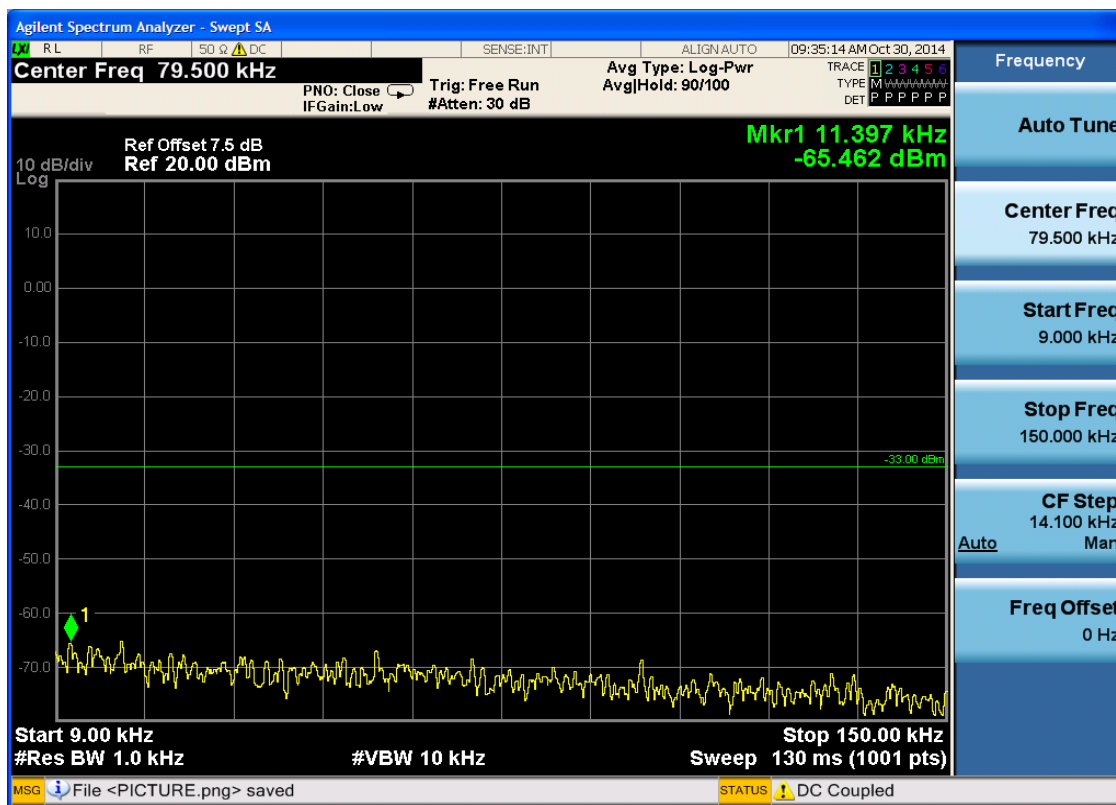


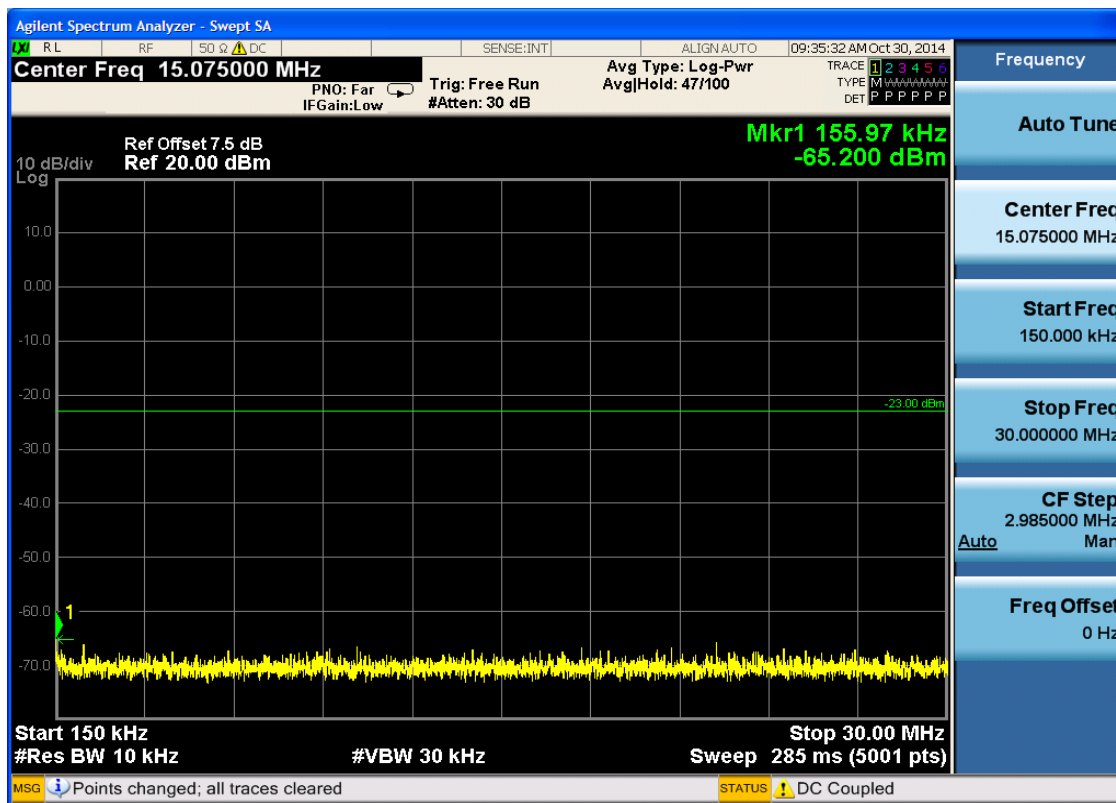


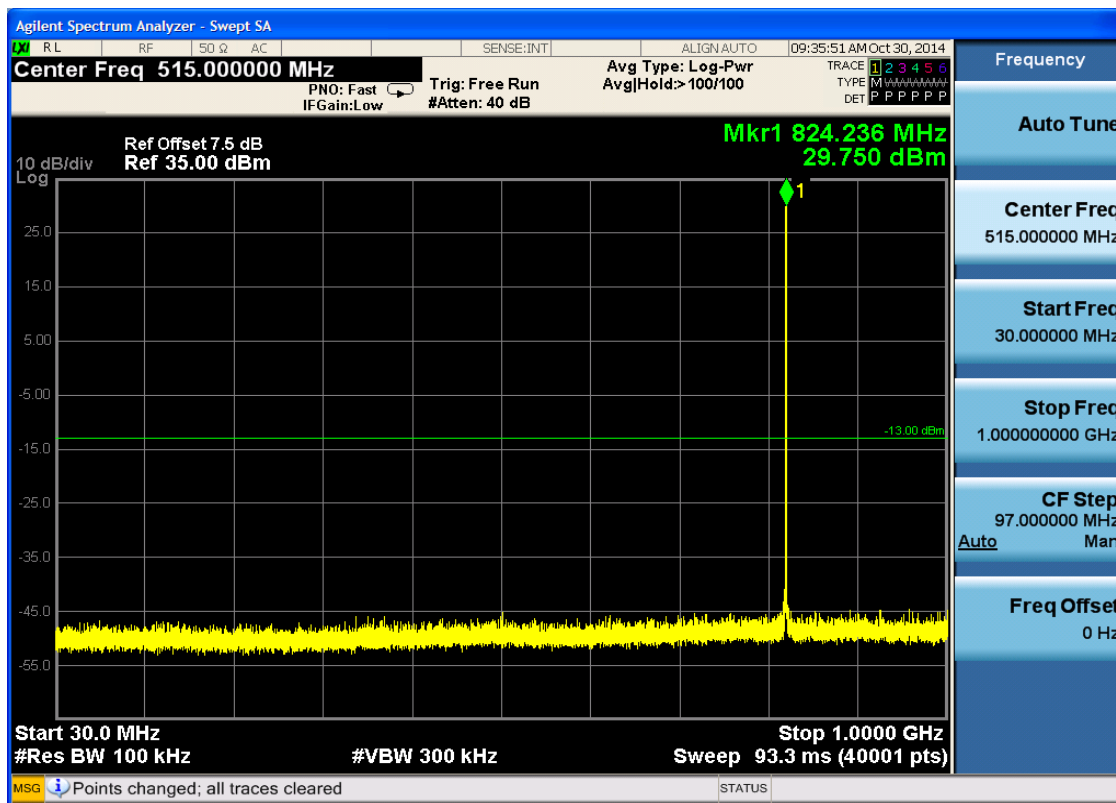


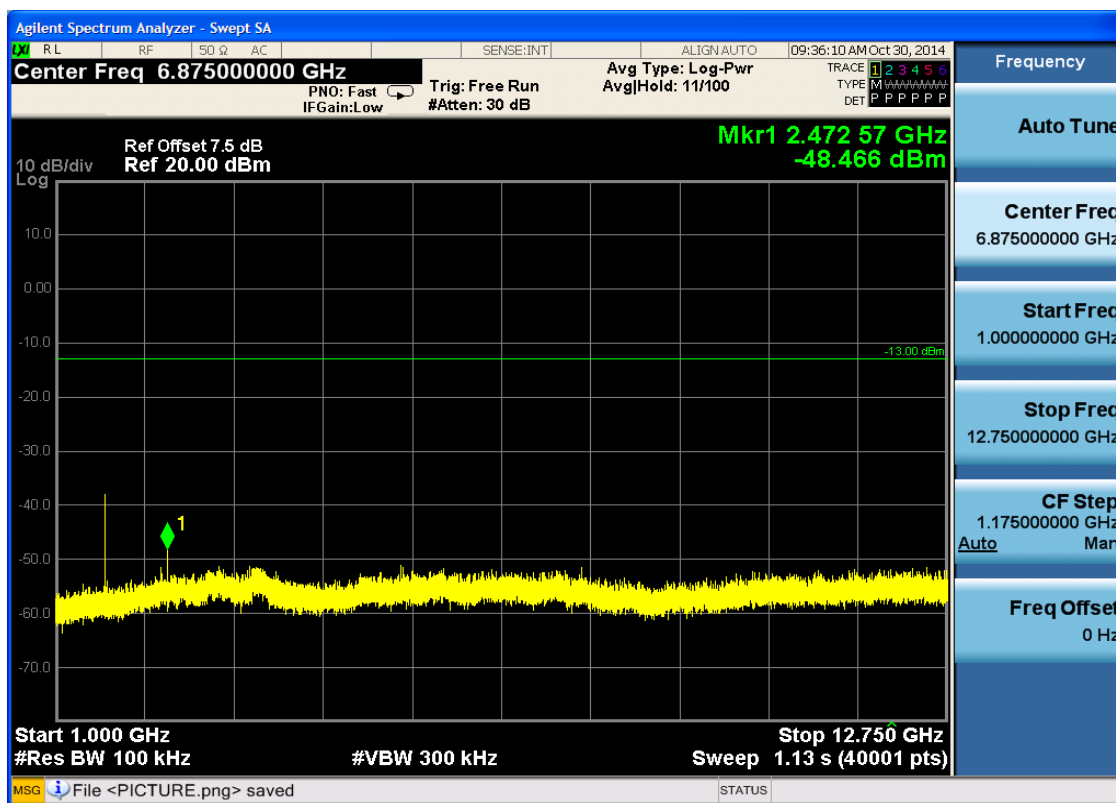
6.1.1.2 Test Mode = GSM/TM2

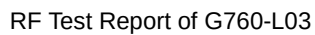
6.1.1.2.1 Test Channel = LCH











Agilent Spectrum Analyzer - Swept SA

R/L RF 50 Ω DC SENSE:INT ALIGN:AUTO 09:36:30 AM Oct 30, 2014

Center Freq 79.500 kHz PNO: Close Trig: Free Run Avg Type: Log-Pwr
IFGain:Low #Atten: 30 dB AvgHold: 90/100

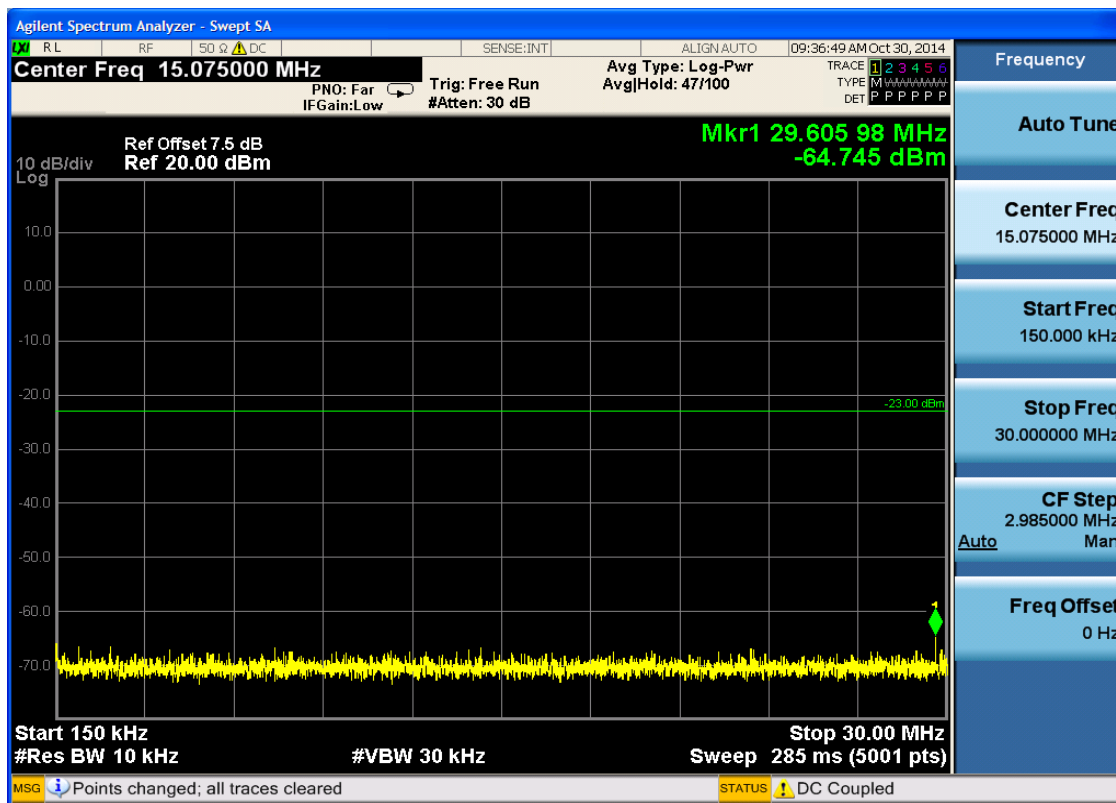
TRACE TYPE DET

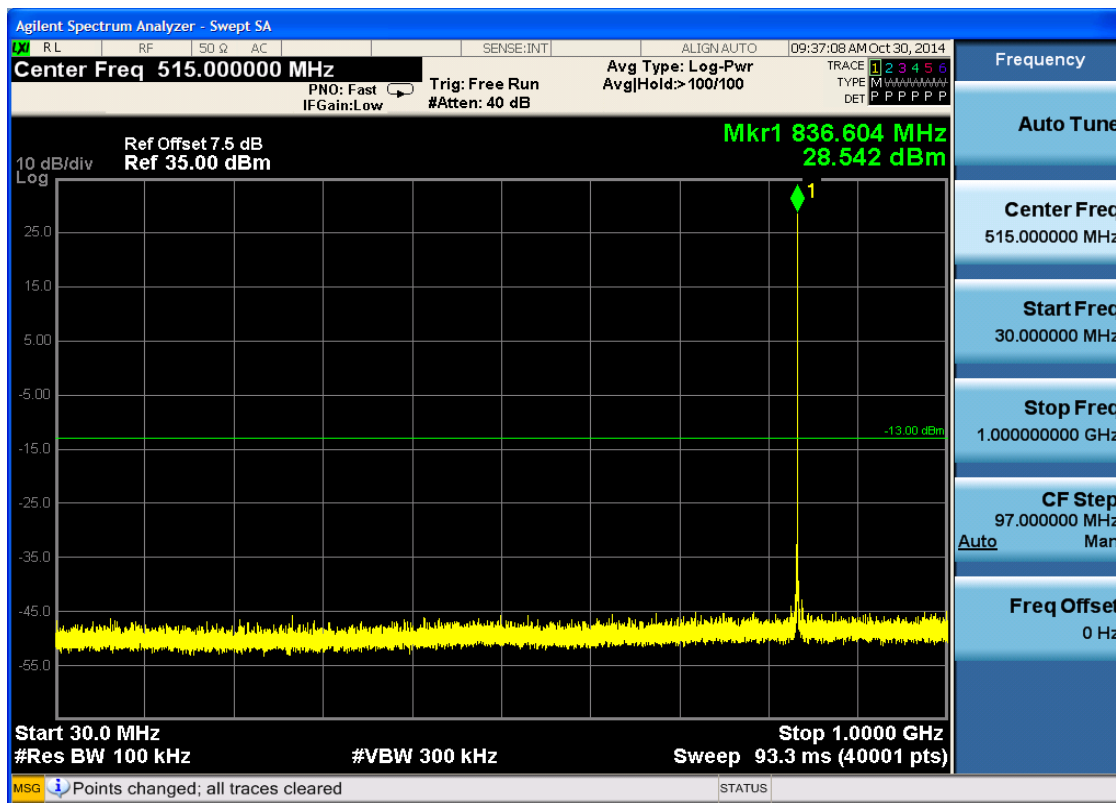
Ref Offset 7.5 dB Mkr1 9.000 kHz
Ref 20.00 dBm -64.999 dBm

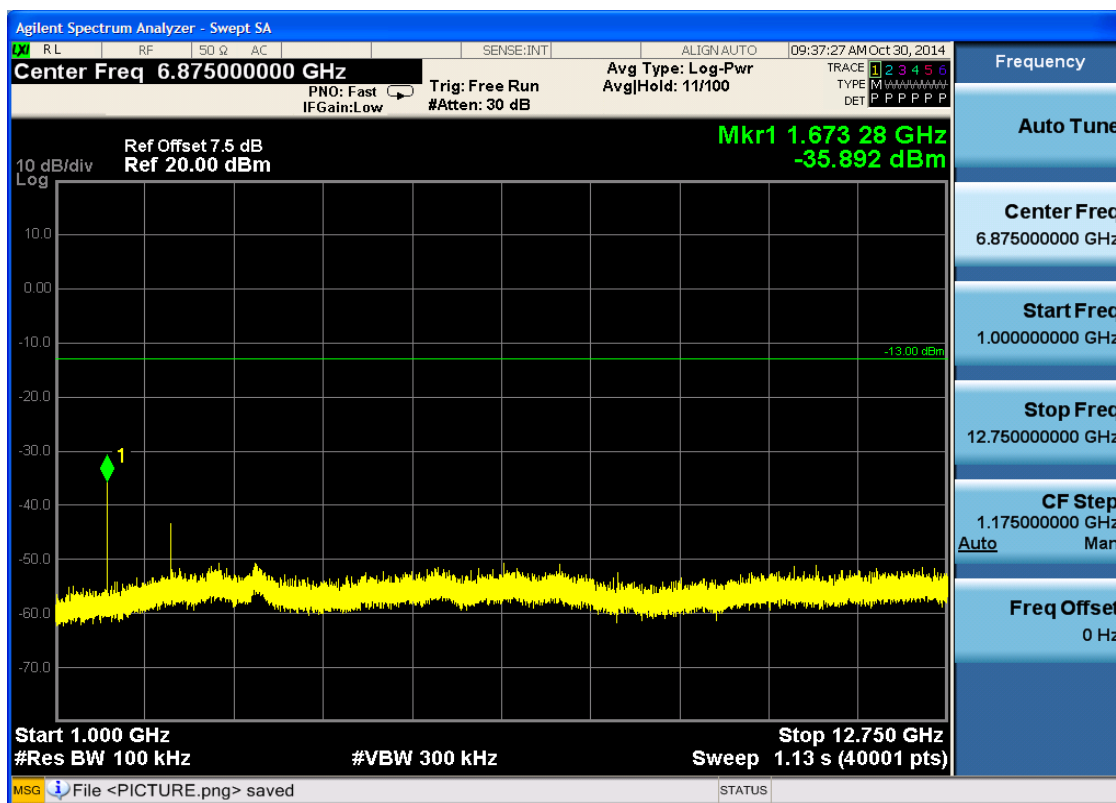
10 dB/div Log

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

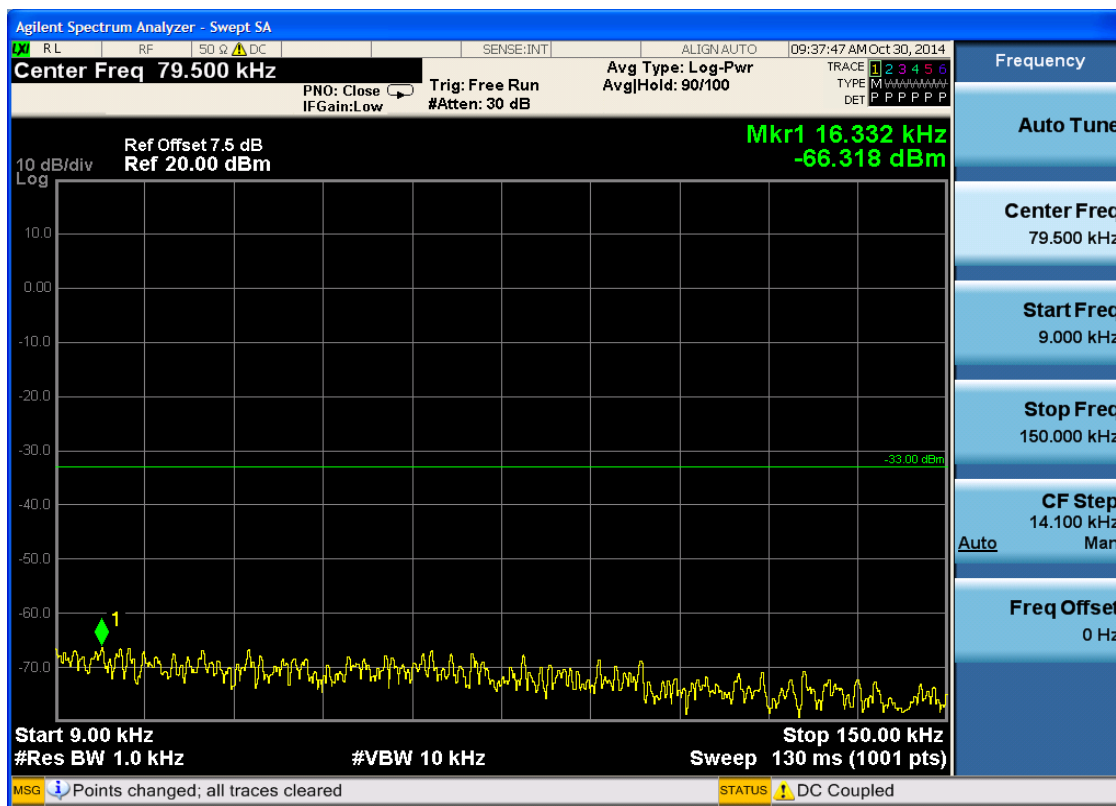


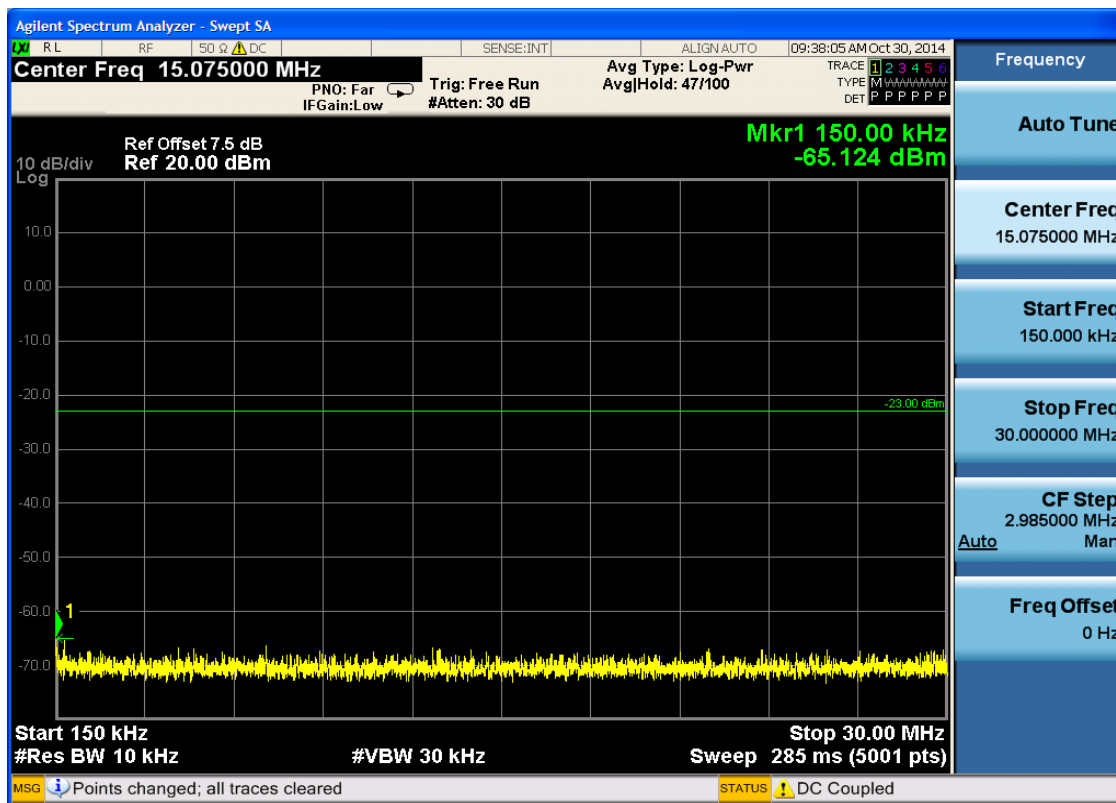


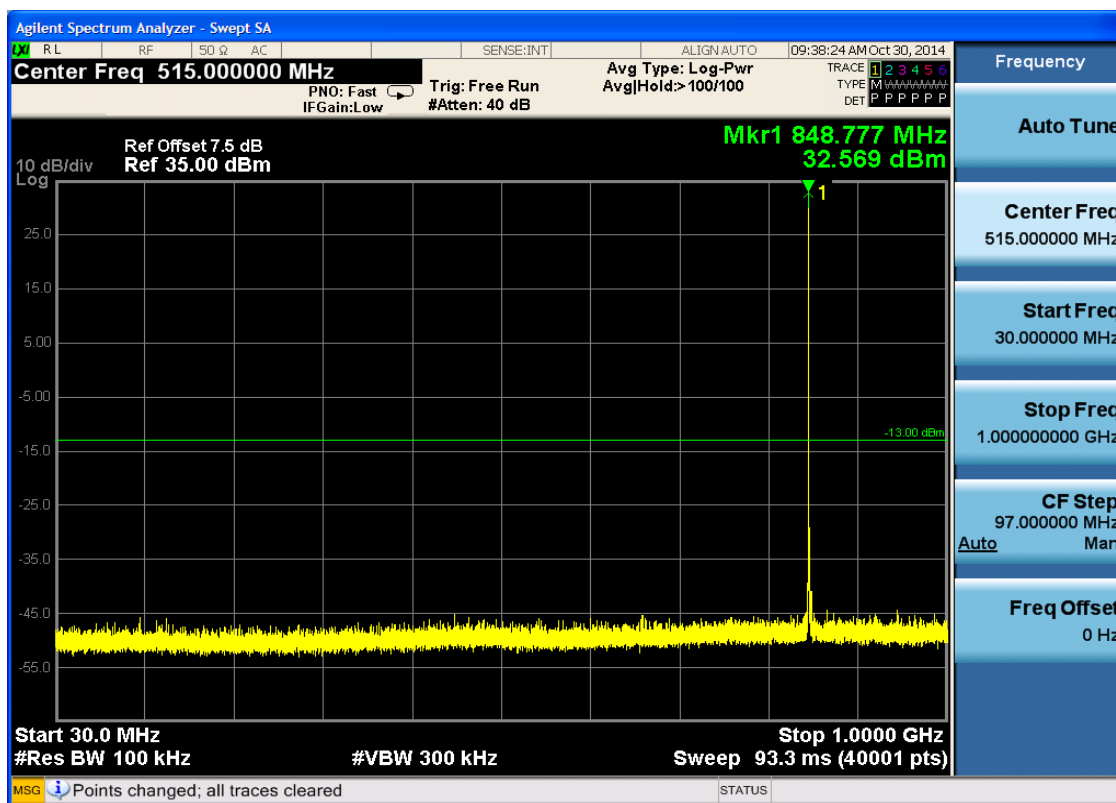


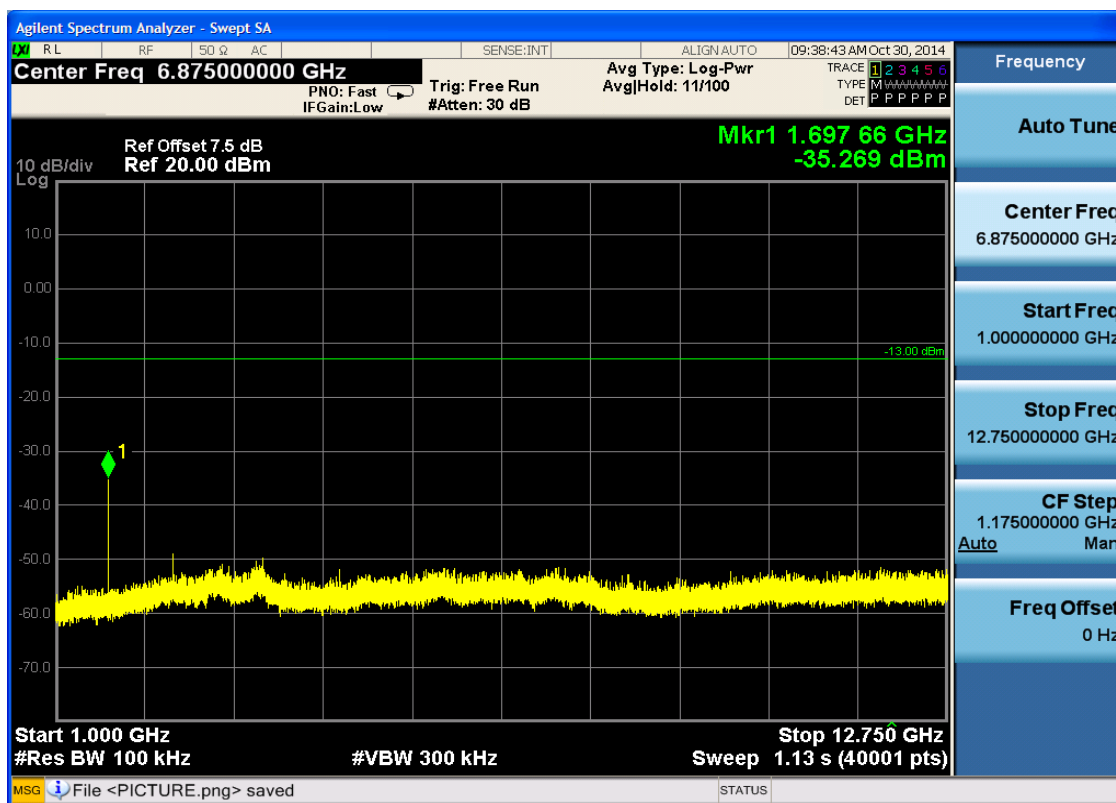


6.1.1.2.3 Test Channel = HCH







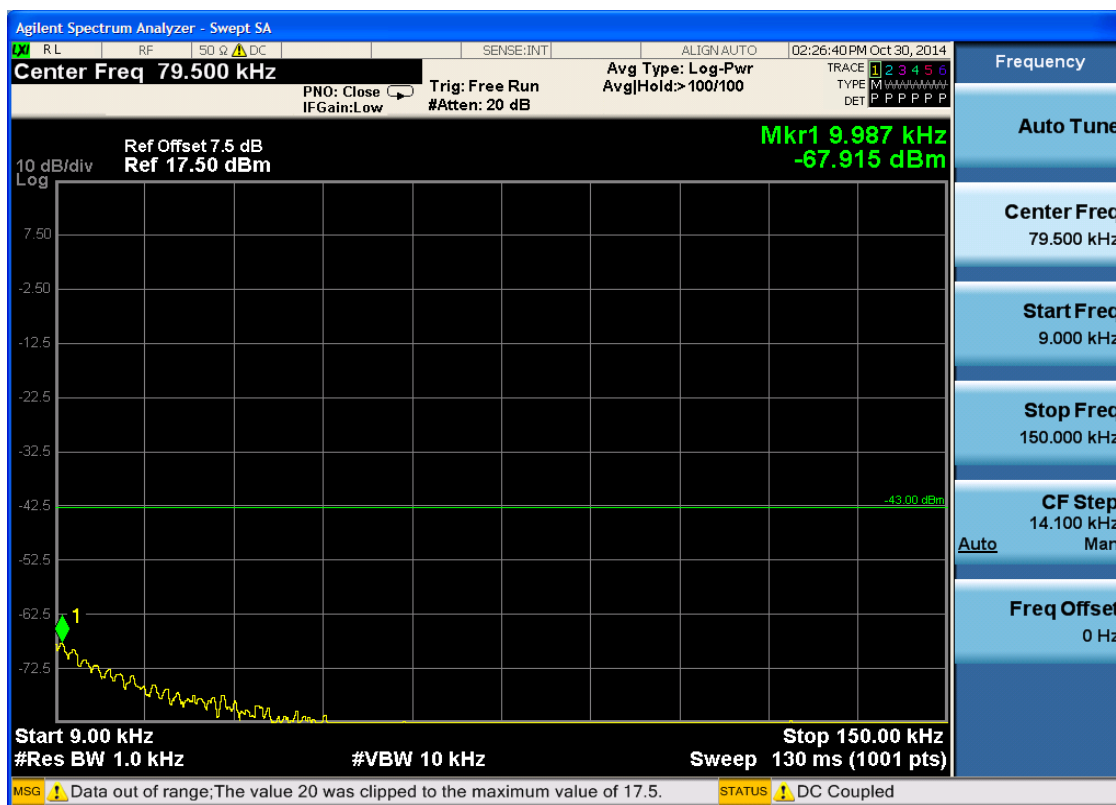


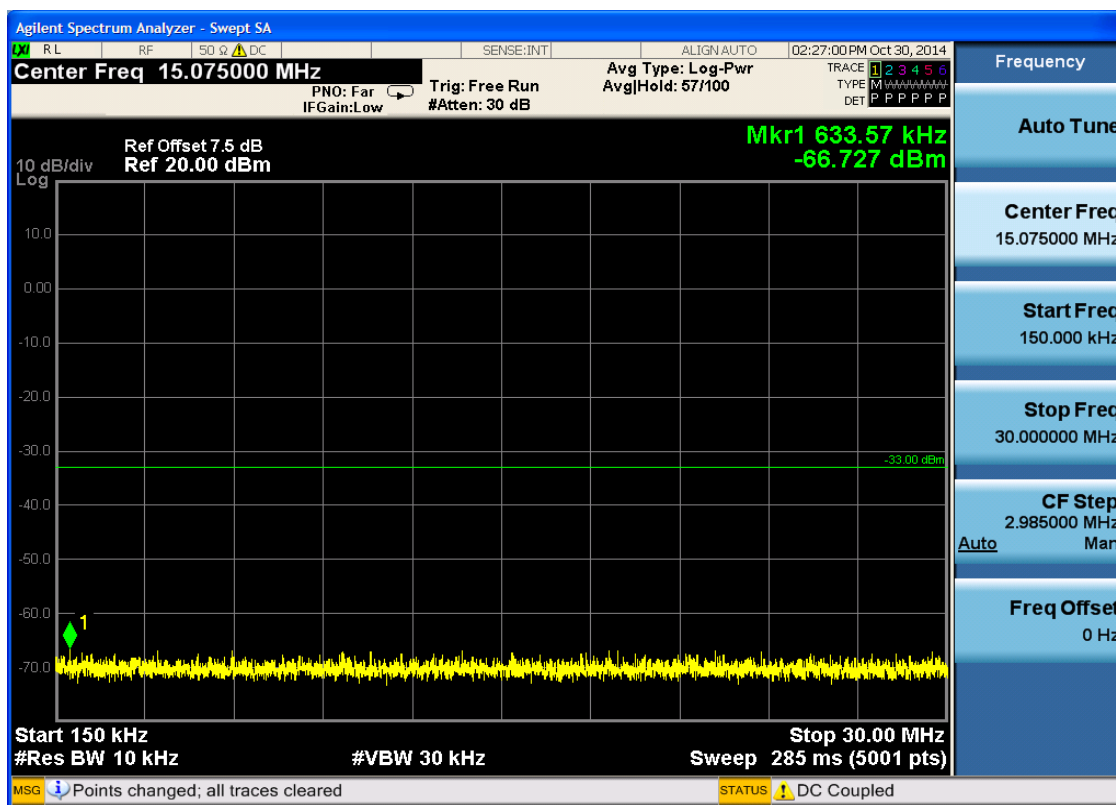


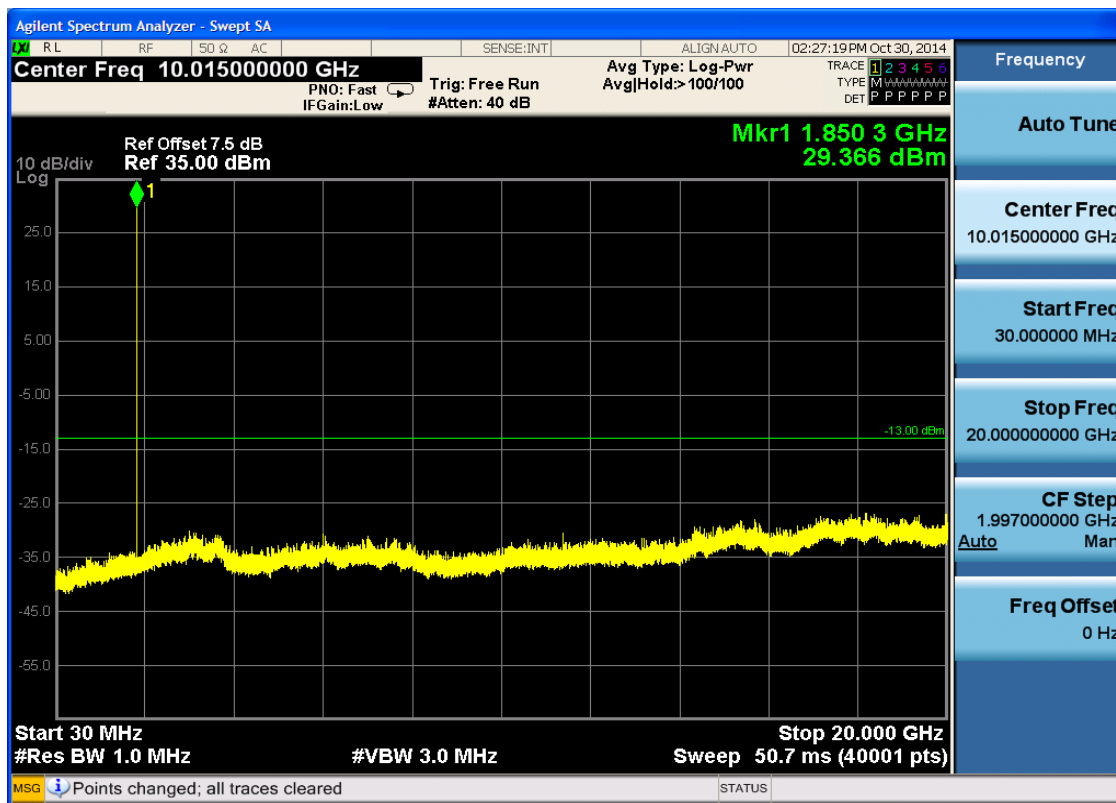
6.1.2 Test Band = GSM1900

6.1.2.1 Test Mode = GSM/TM1

6.1.2.1.1 Test Channel = LCH

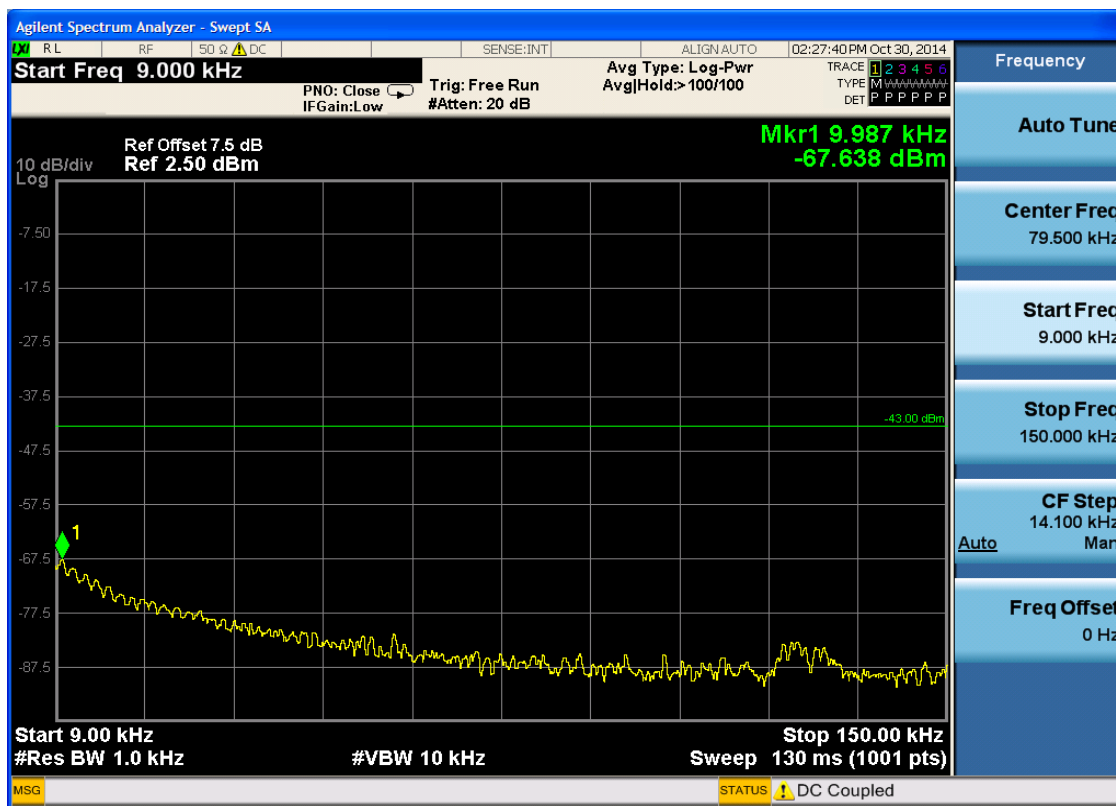


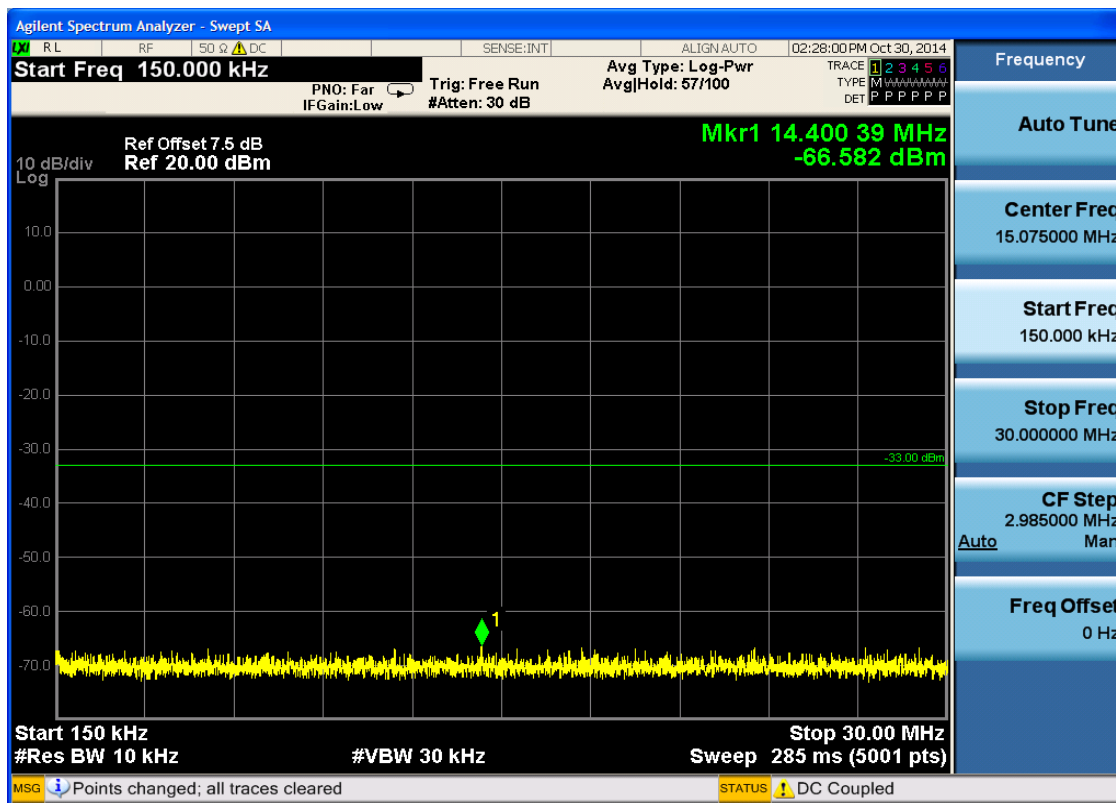


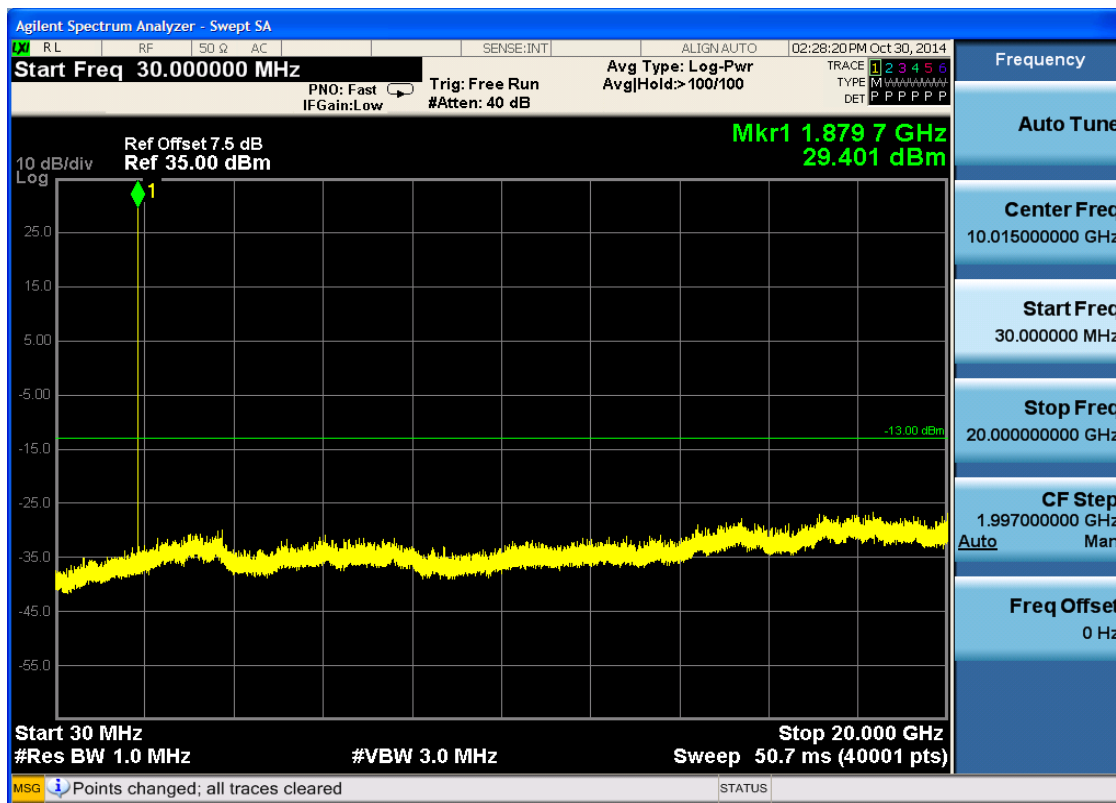




6.1.2.1.2 Test Channel = MCH

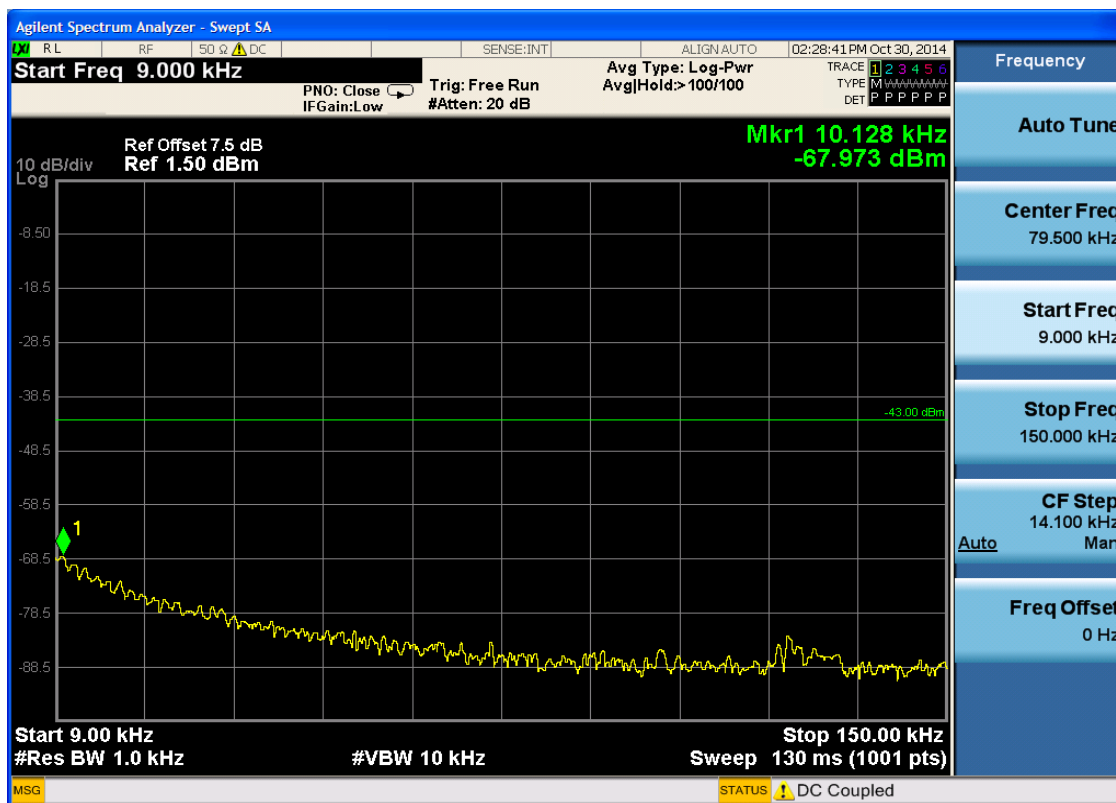


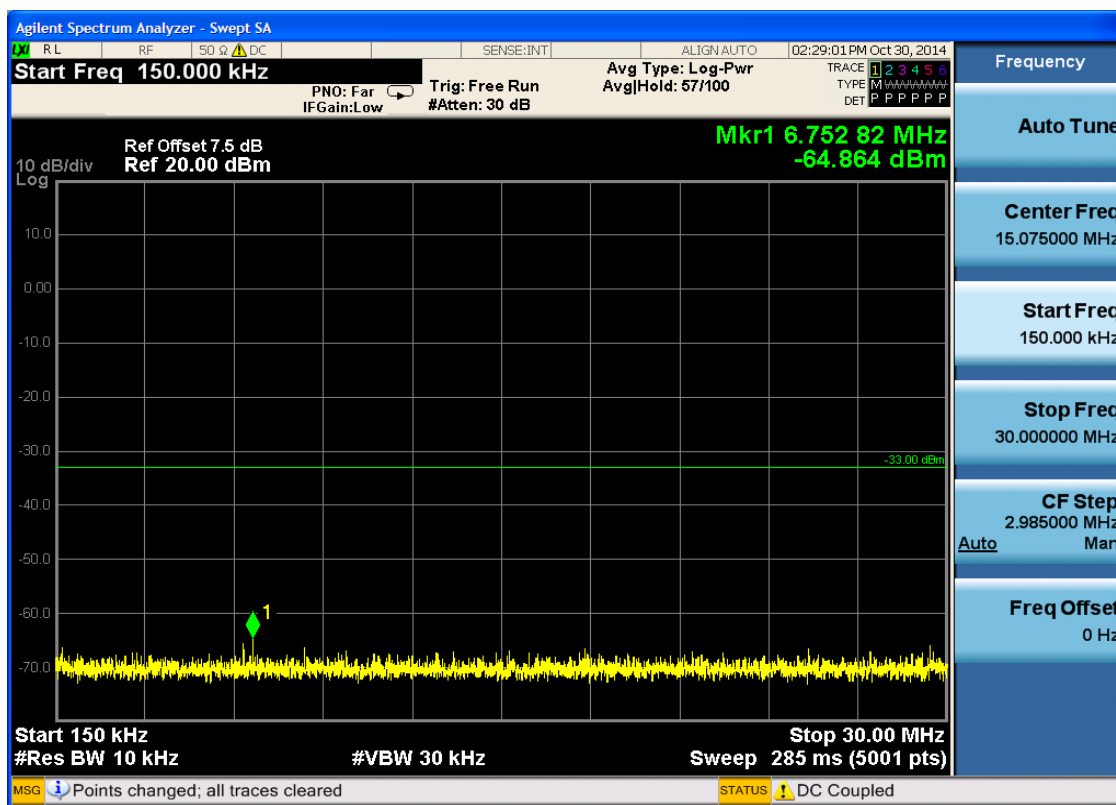


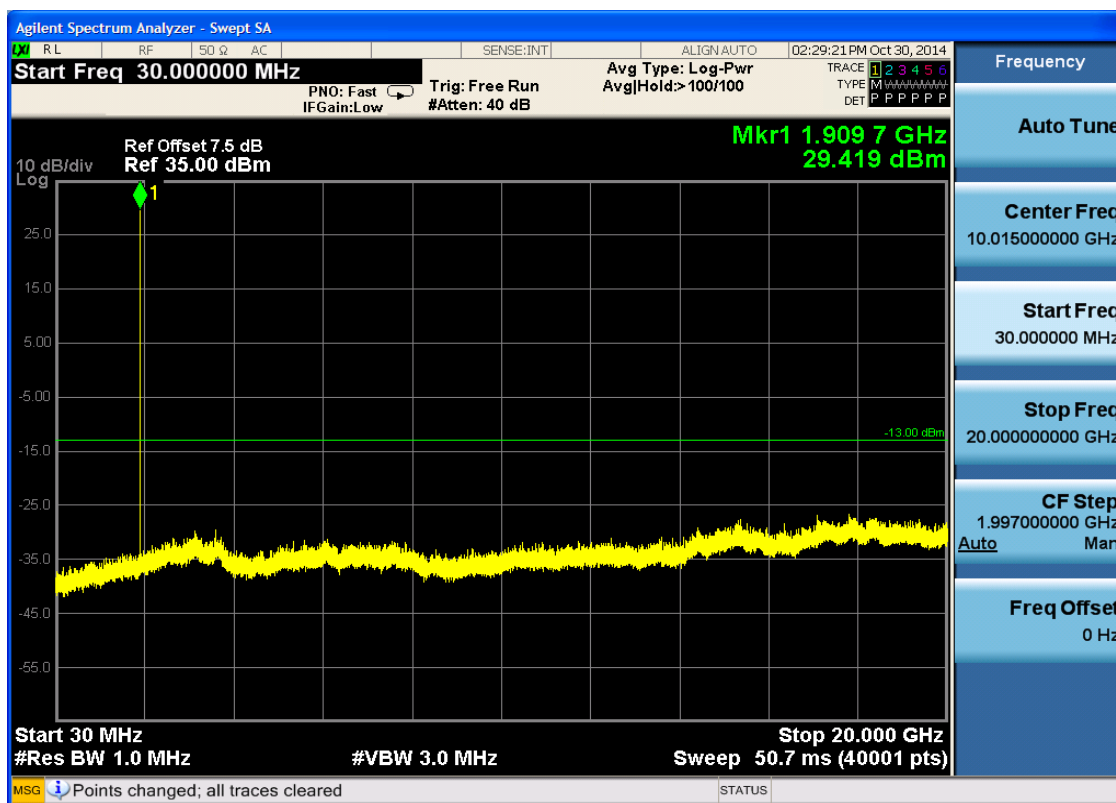




6.1.2.1.3 Test Channel = HCH

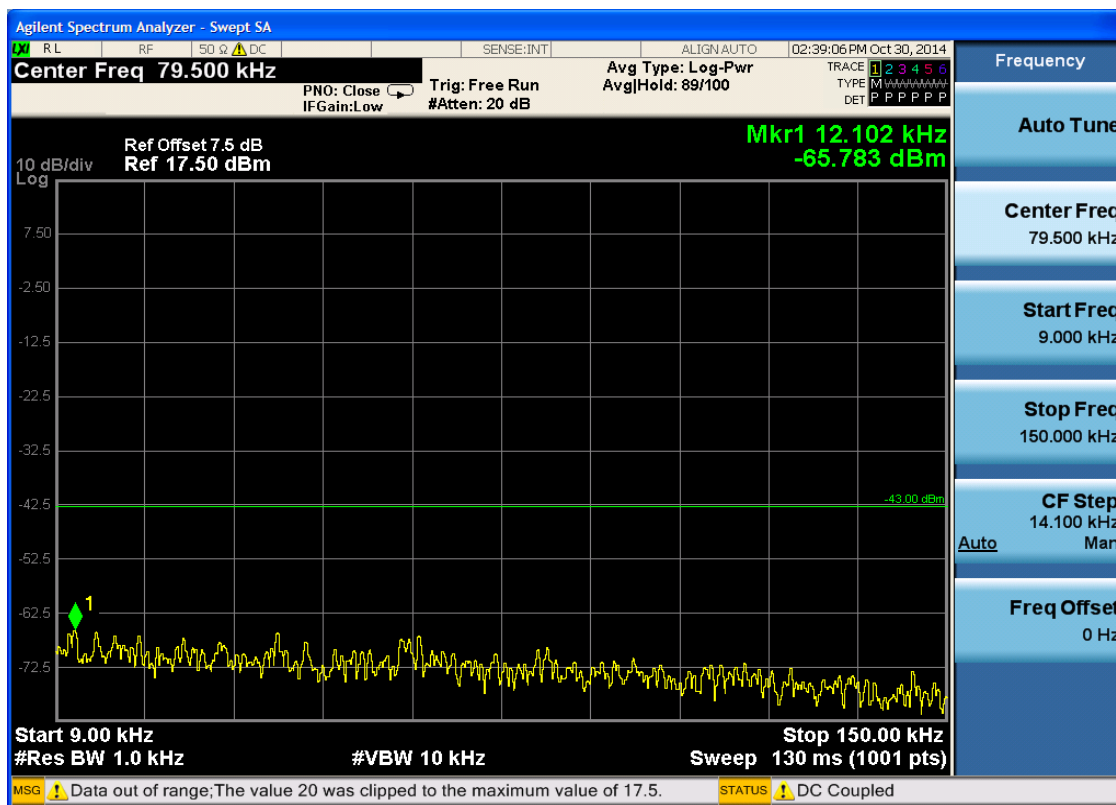


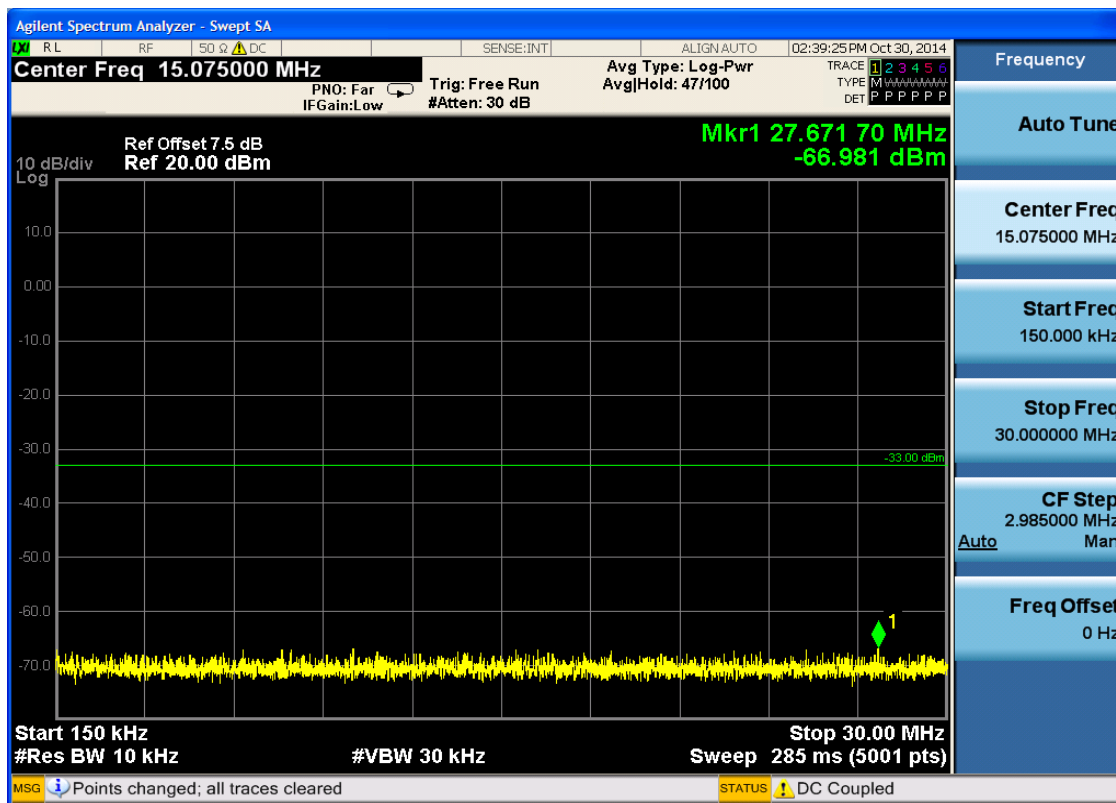


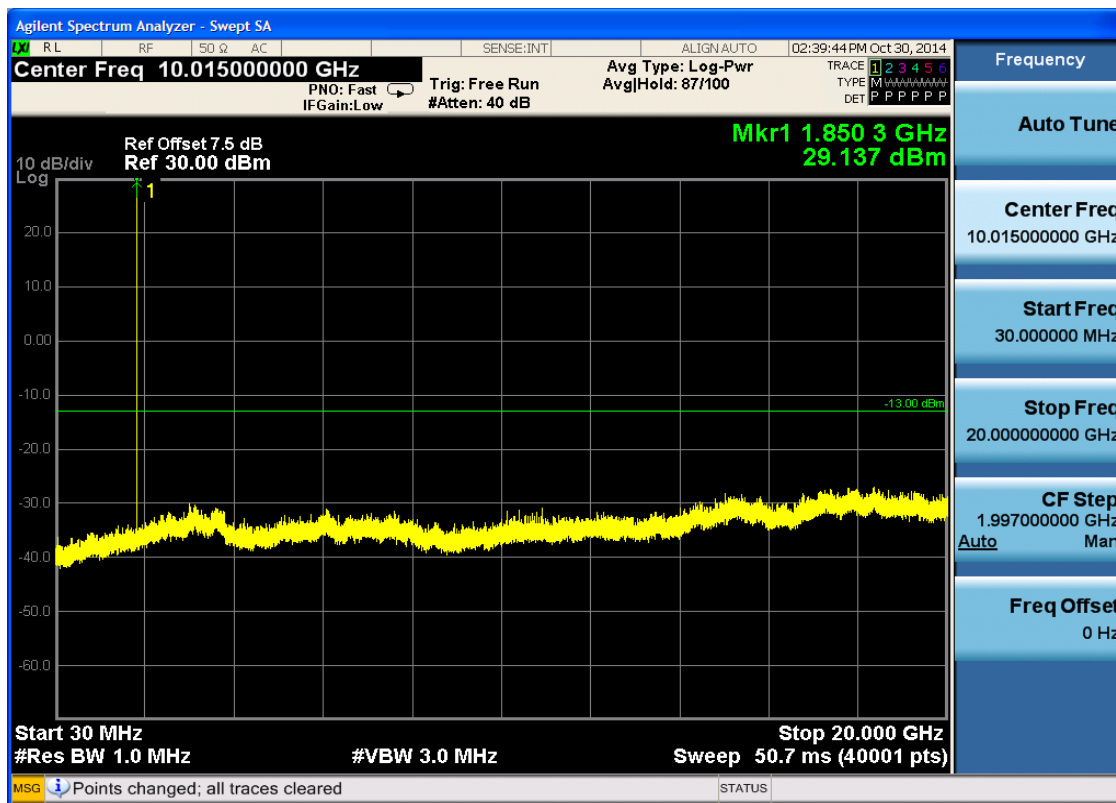


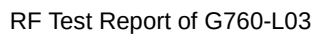
6.1.2.2 Test Mode = GSM/TM2

6.1.2.2.1 Test Channel = LCH









Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω DC SENSE:INT ALIGN:AUTO 02:40:04 PM Oct 30, 2014

Center Freq 79.500 kHz PNO: Close Trig: Free Run Avg Type: Log-Pwr Avg|Hold: 90/100

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

Ref Offset 7.5 dB Mkr1 20.562 kHz
Ref 17.50 dB -66.569 dBm

10 dB/div Log

7.50
-2.50
-12.5
-22.5
-32.5
-42.5
-52.5
-62.5
-72.5

-43.00 dBm

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

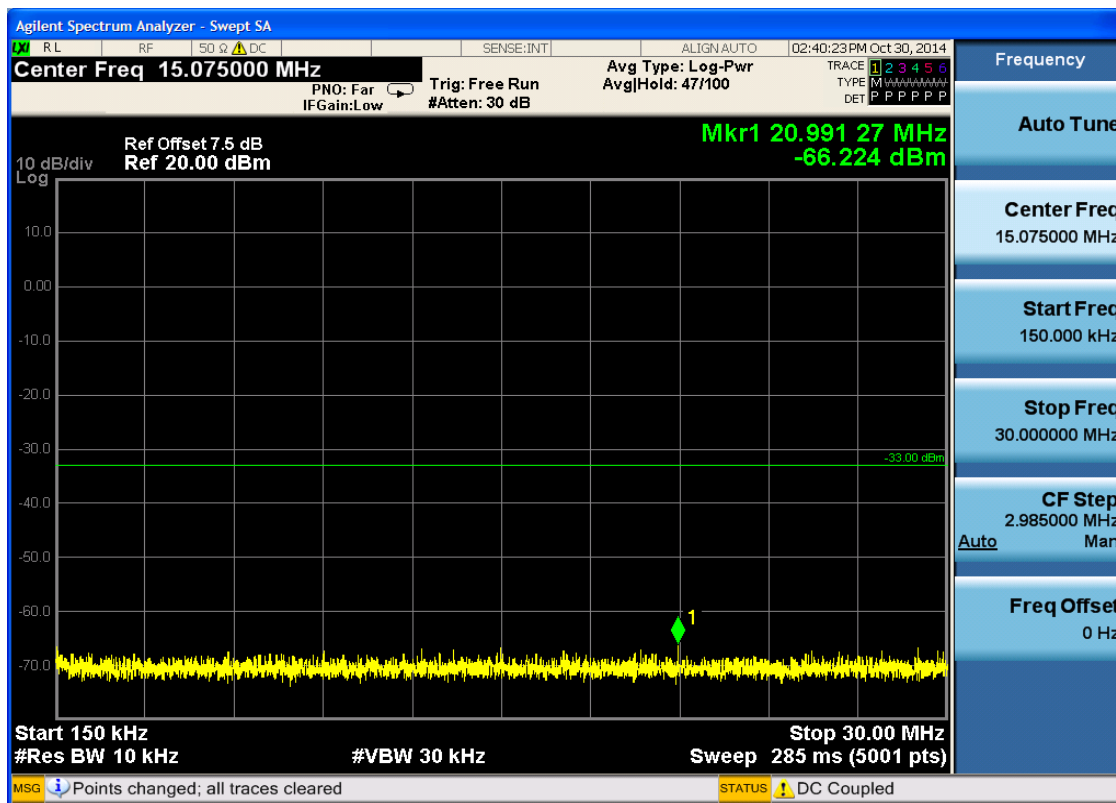
Start Freq 9.000 kHz

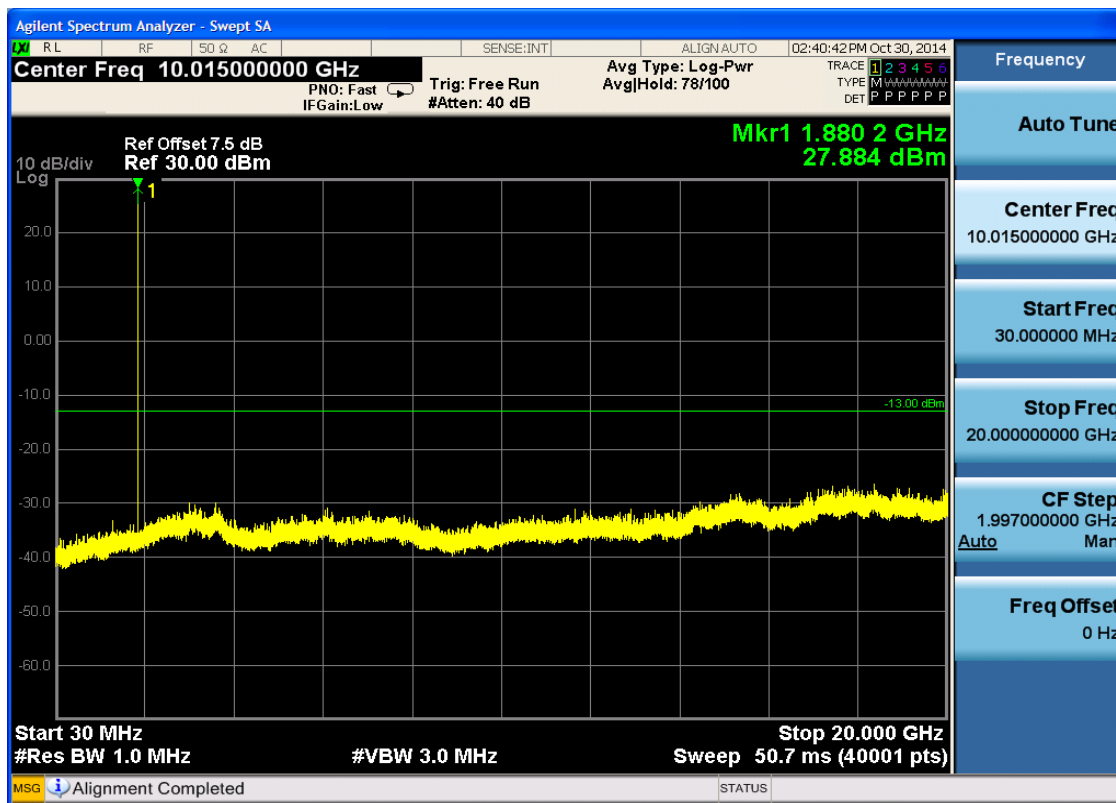
Stop Freq 150.000 kHz

CF Step 14.100 kHz

Auto

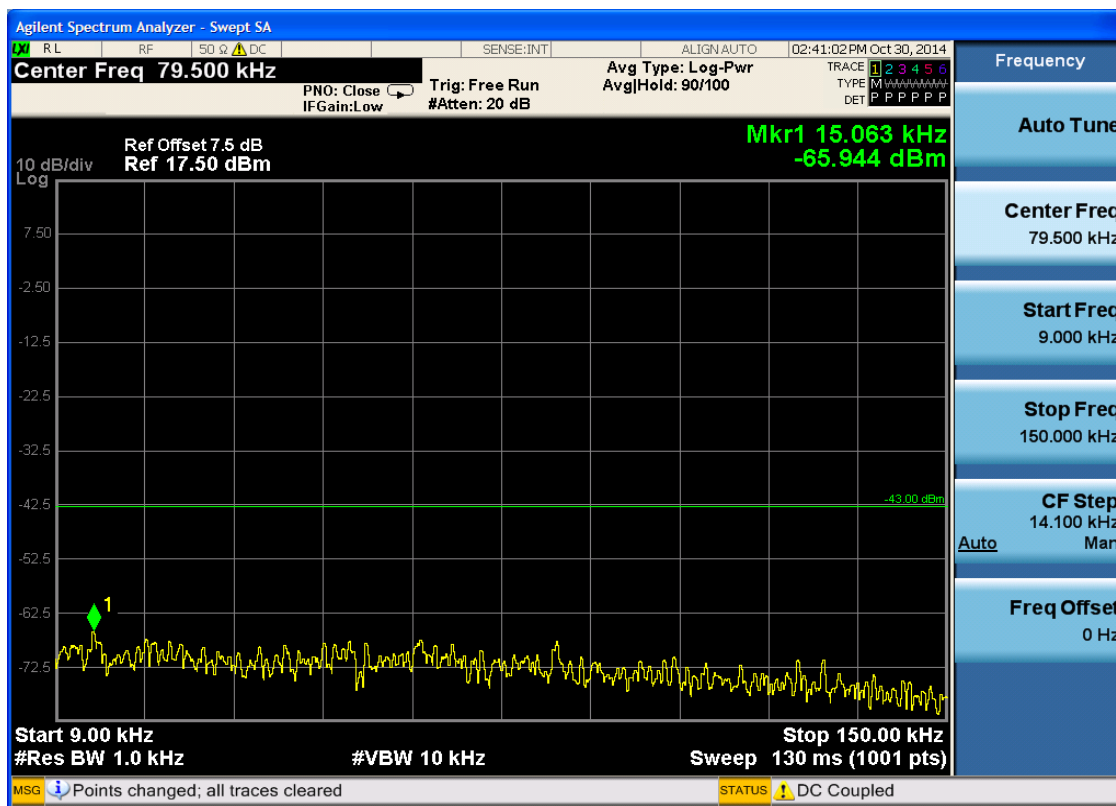
Freq Offset 0 Hz

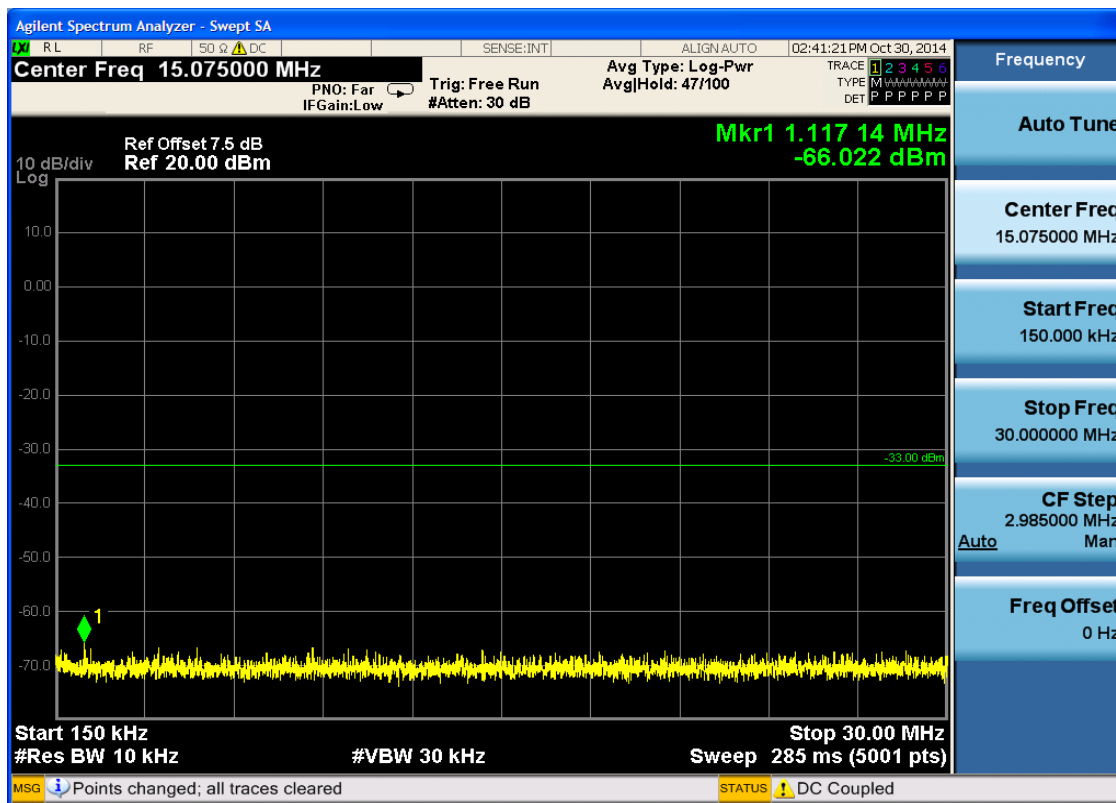


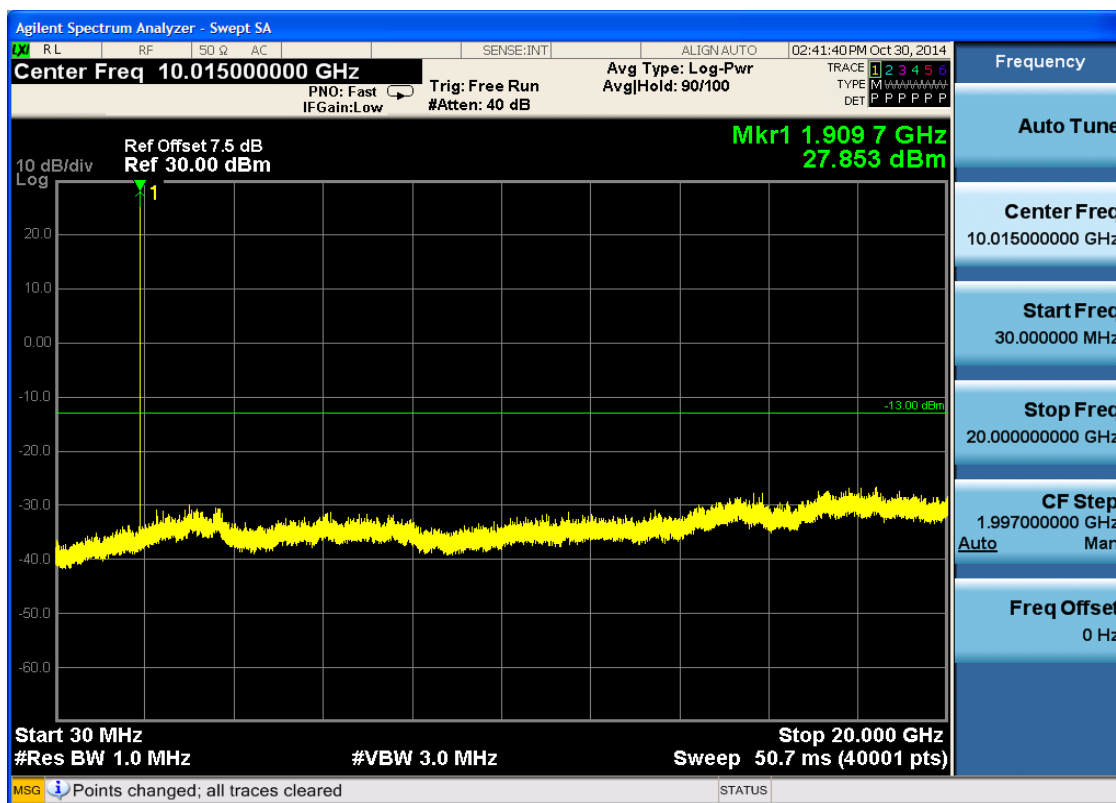




6.1.2.2.3 Test Channel = HCH







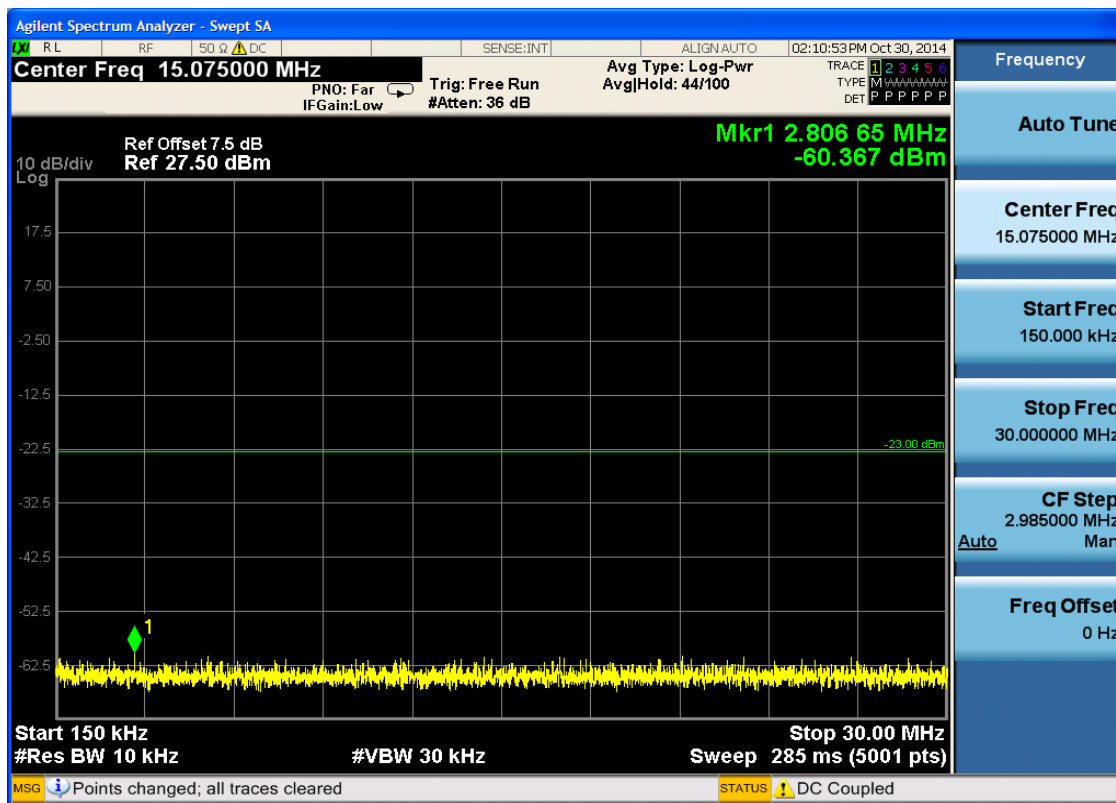
6.2 For UMTS

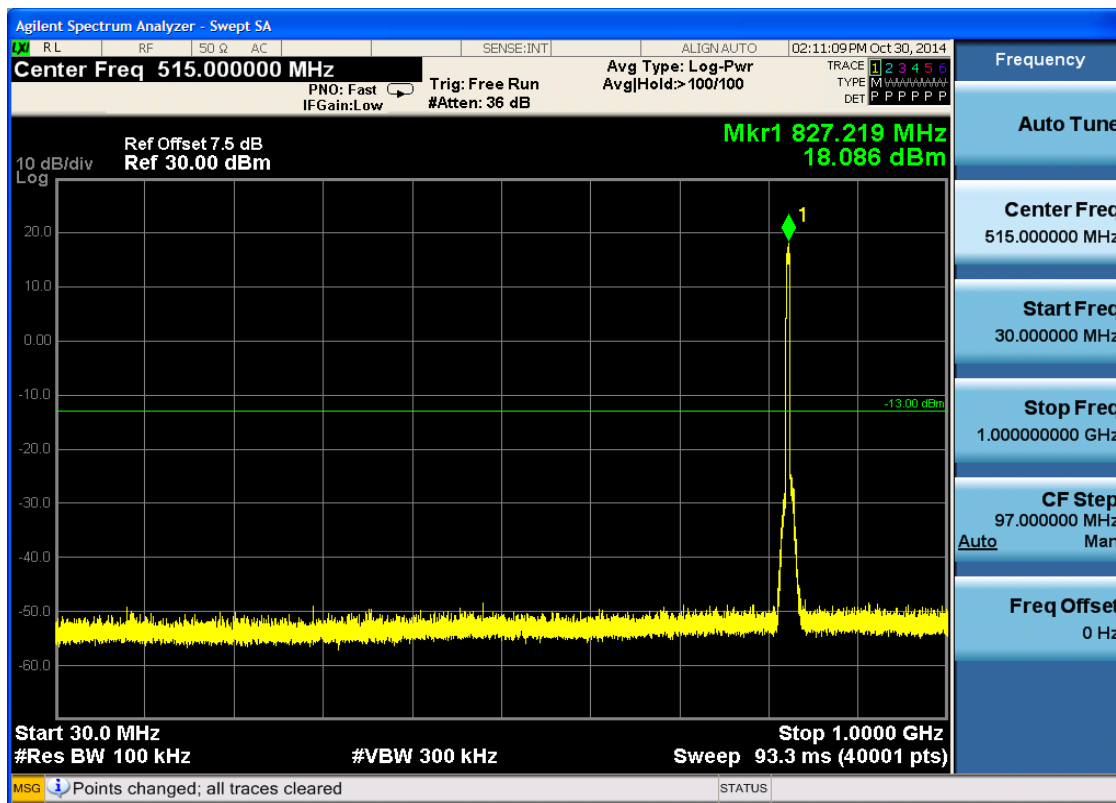
6.2.1 Test Band = WCDMA850

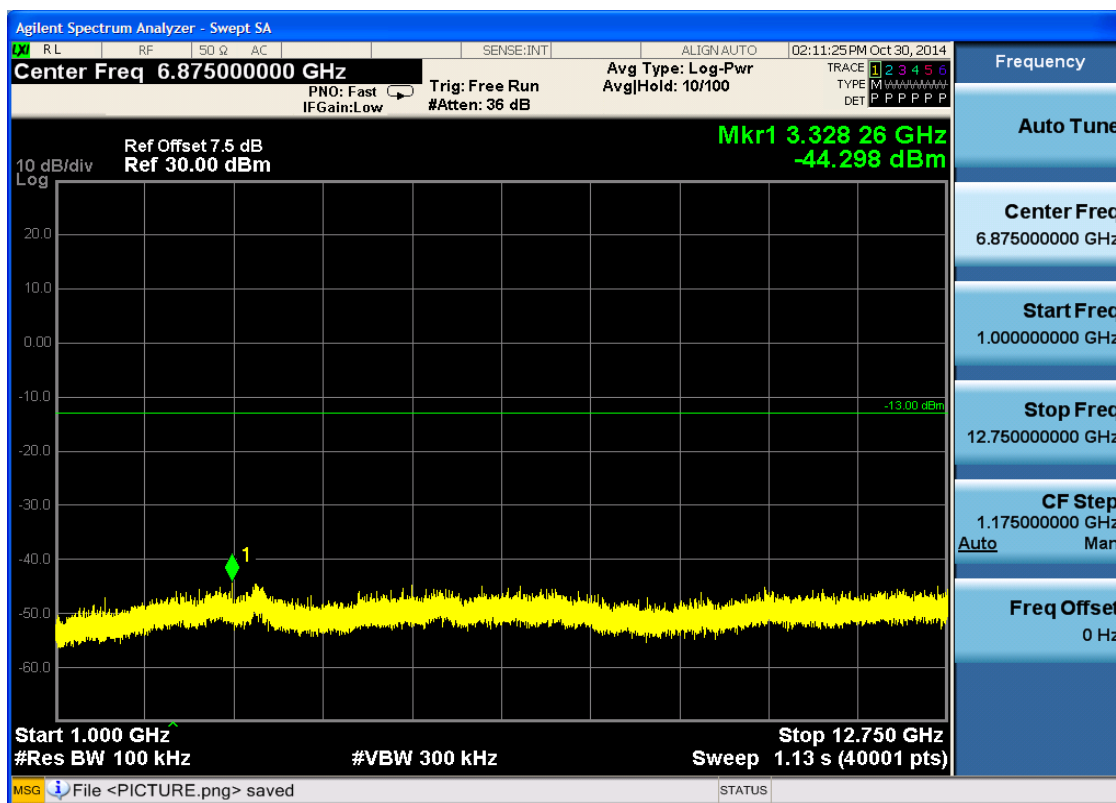
6.2.1.1 Test Mode = UMTS/TM1

6.2.1.1.1 Test Channel = LCH

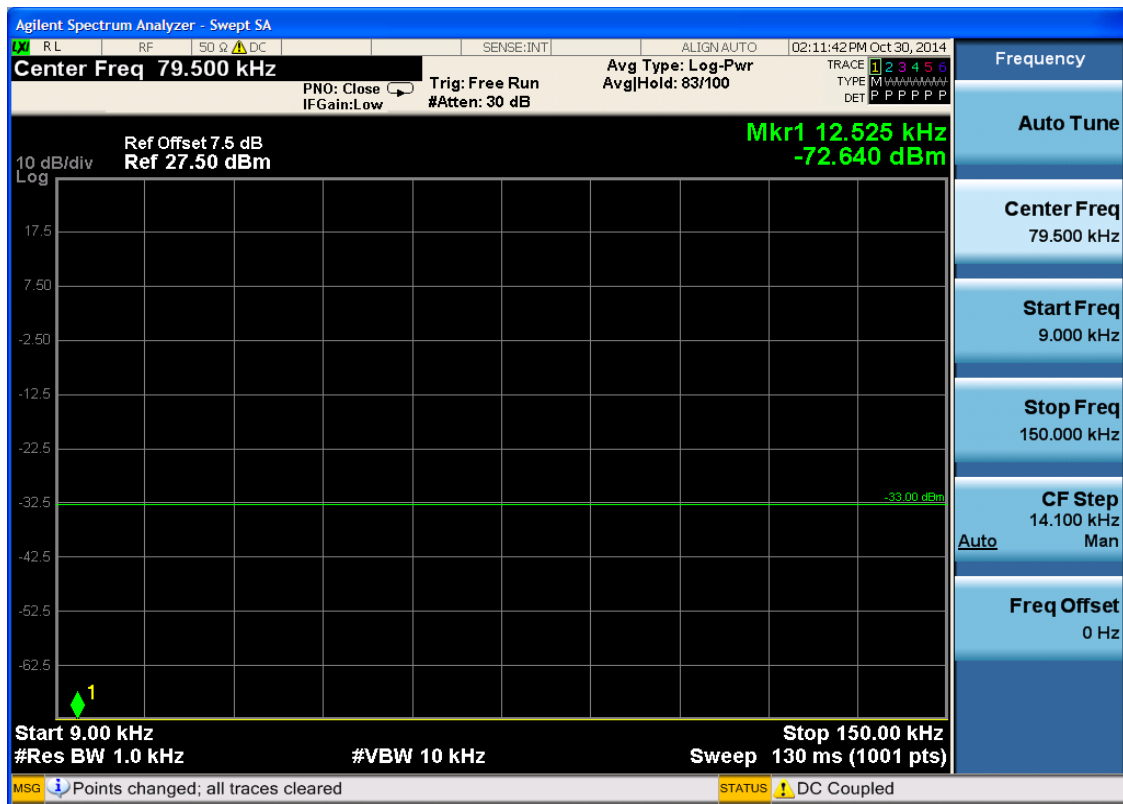


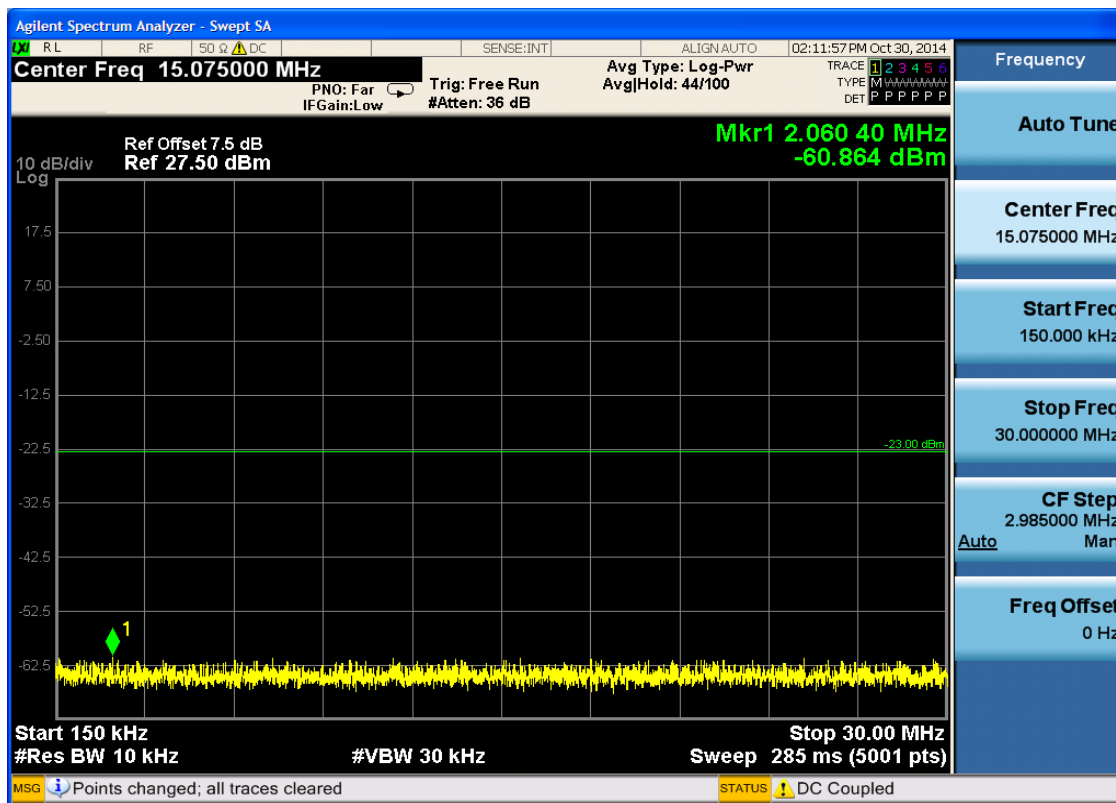


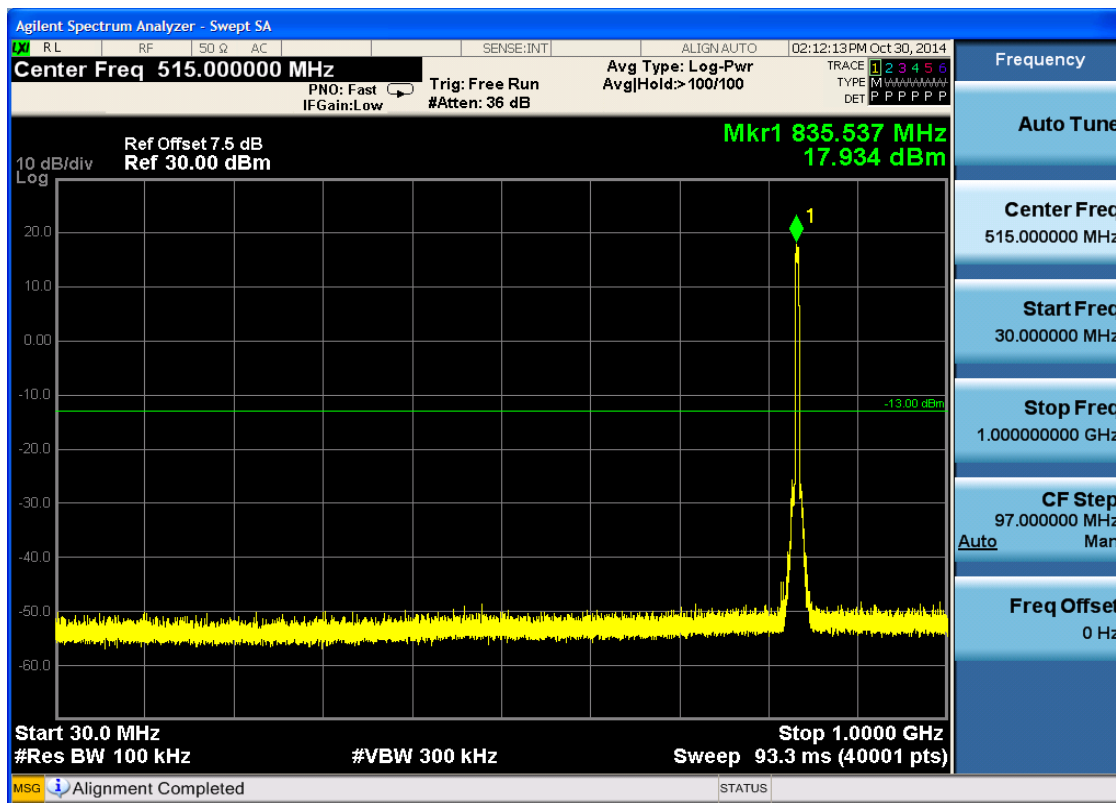


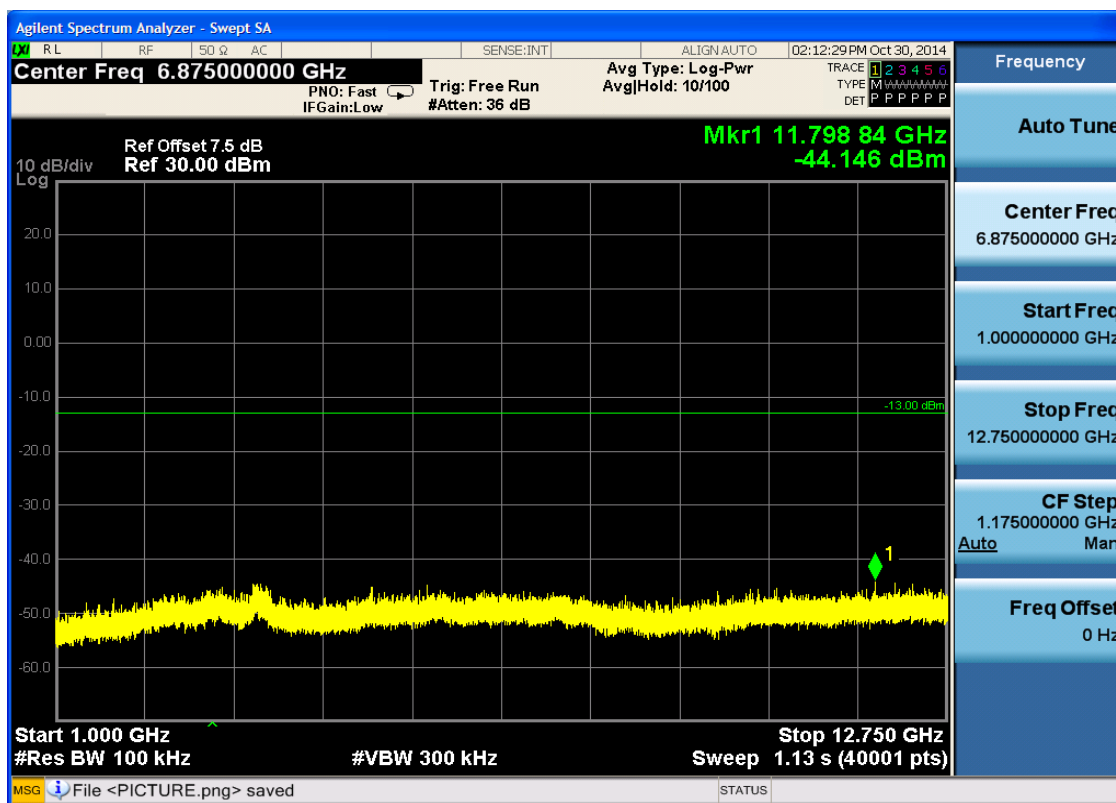


6.2.1.1.2 Test Channel = MCH



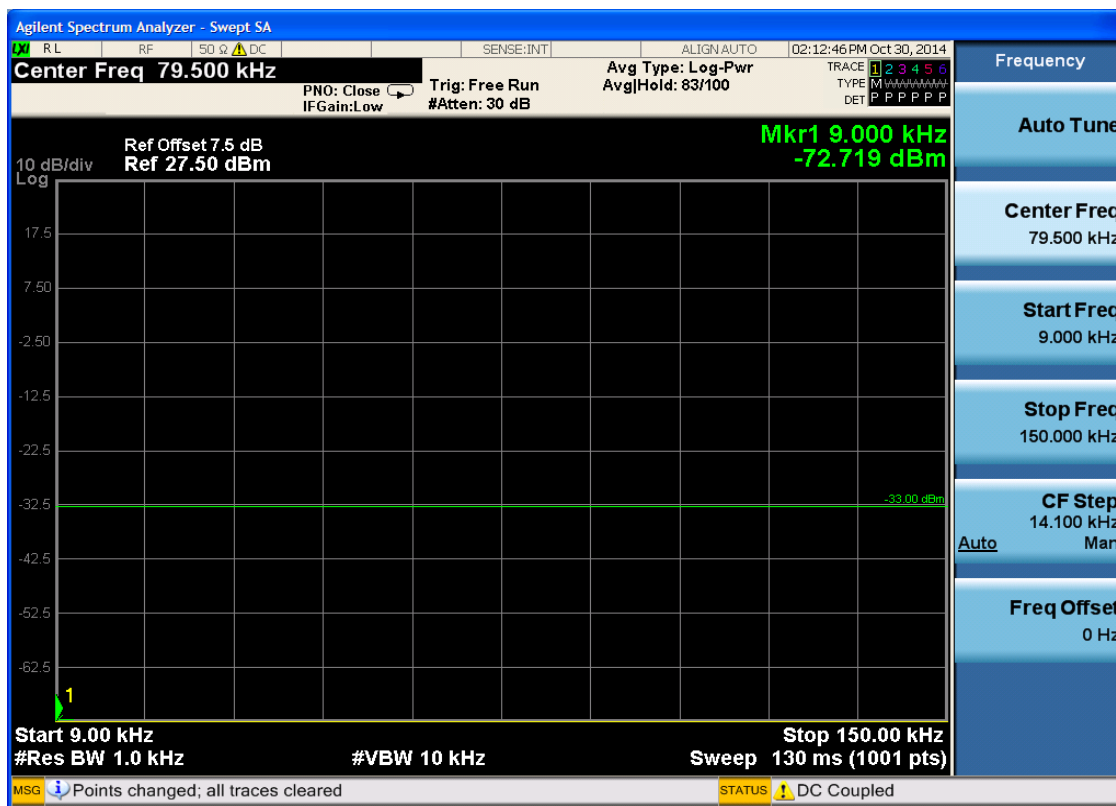


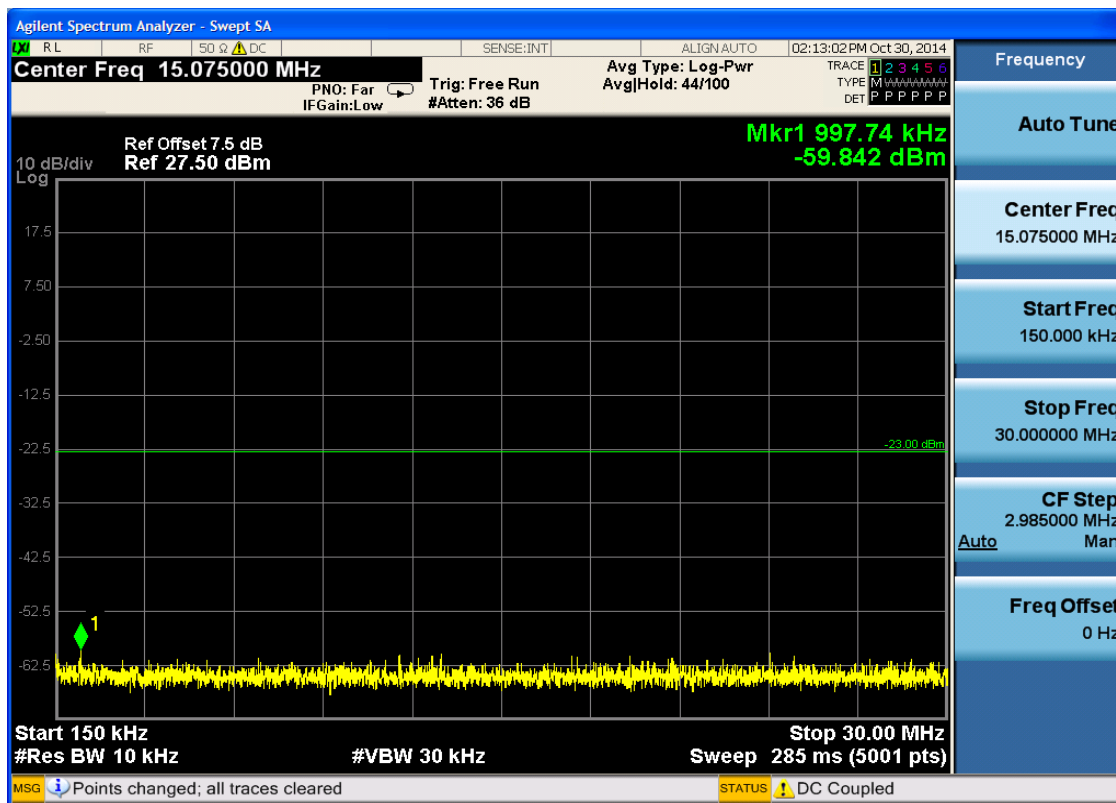


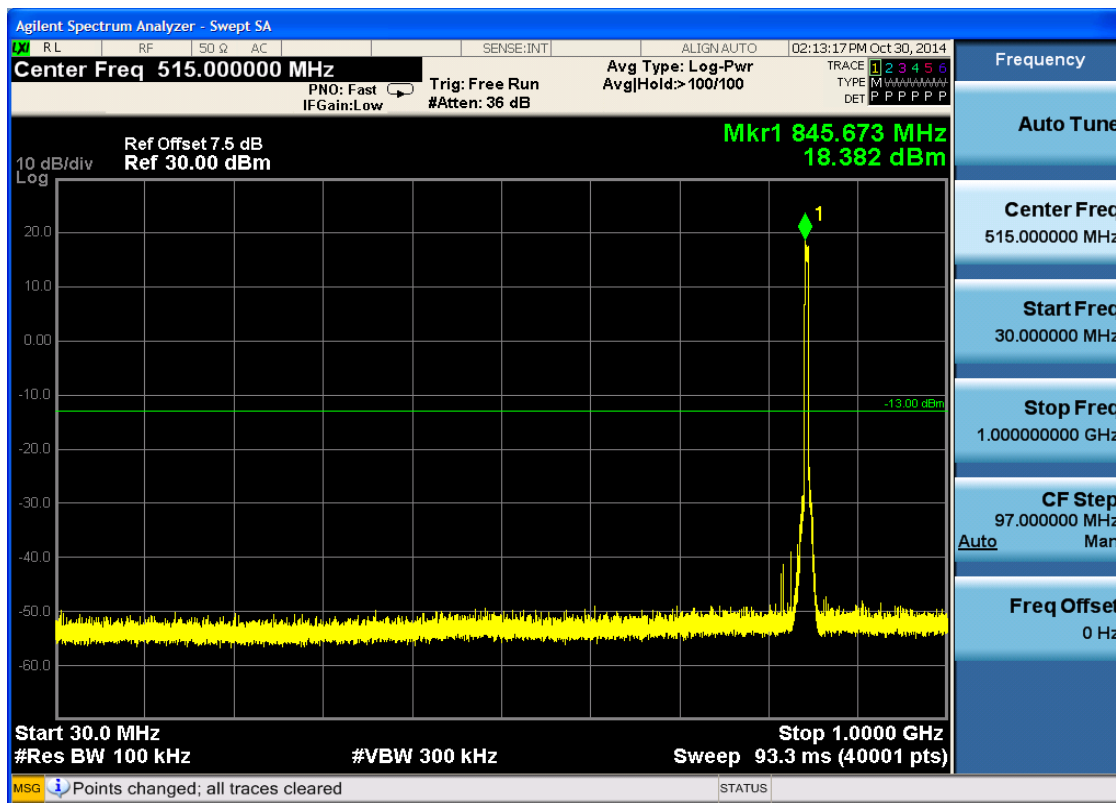


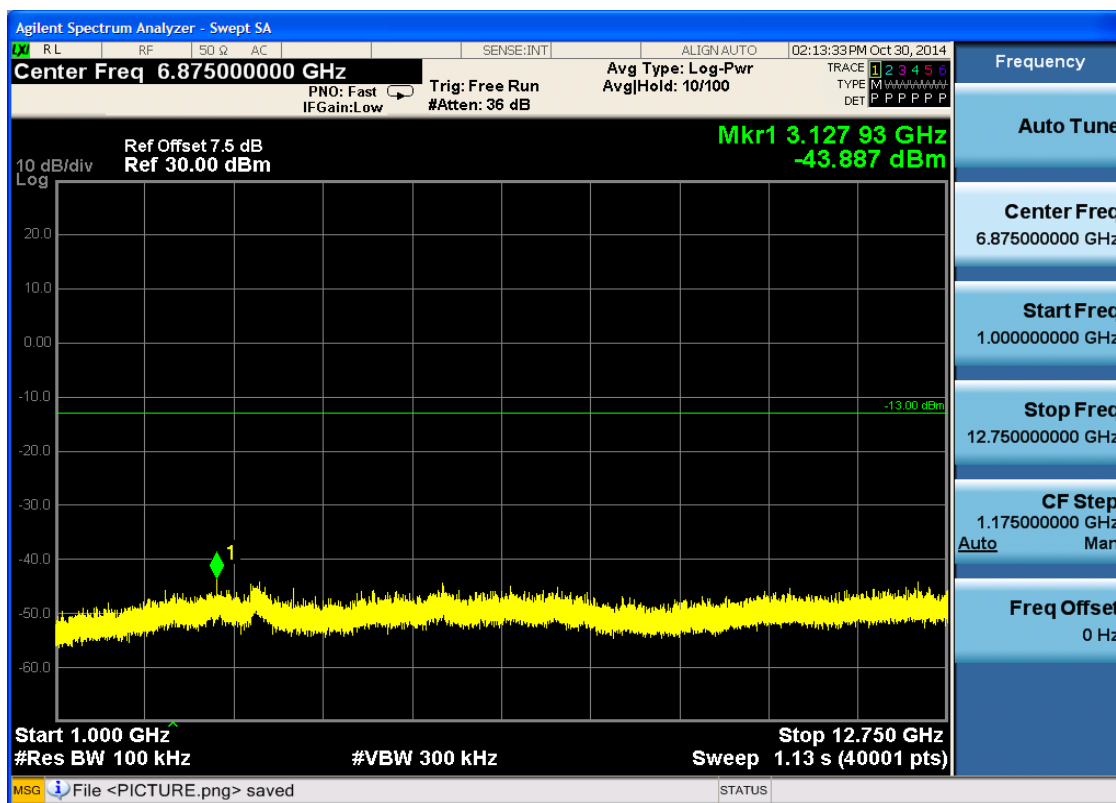


6.2.1.1.3 Test Channel = HCH







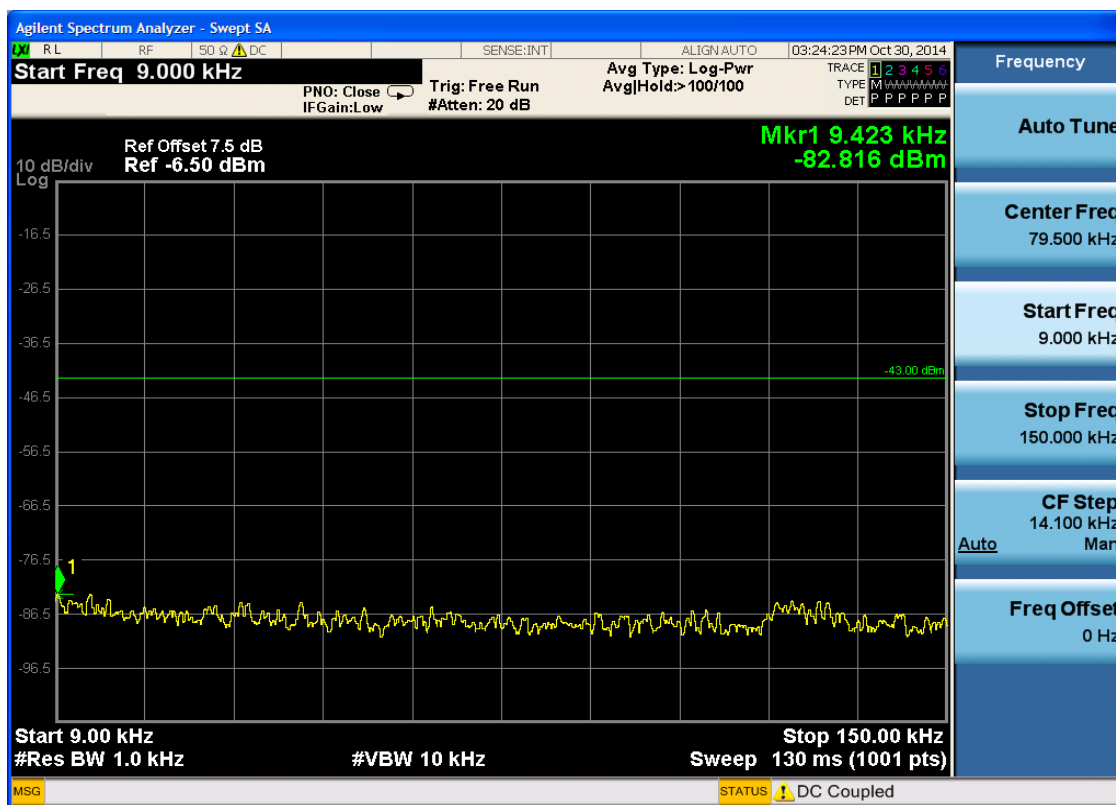


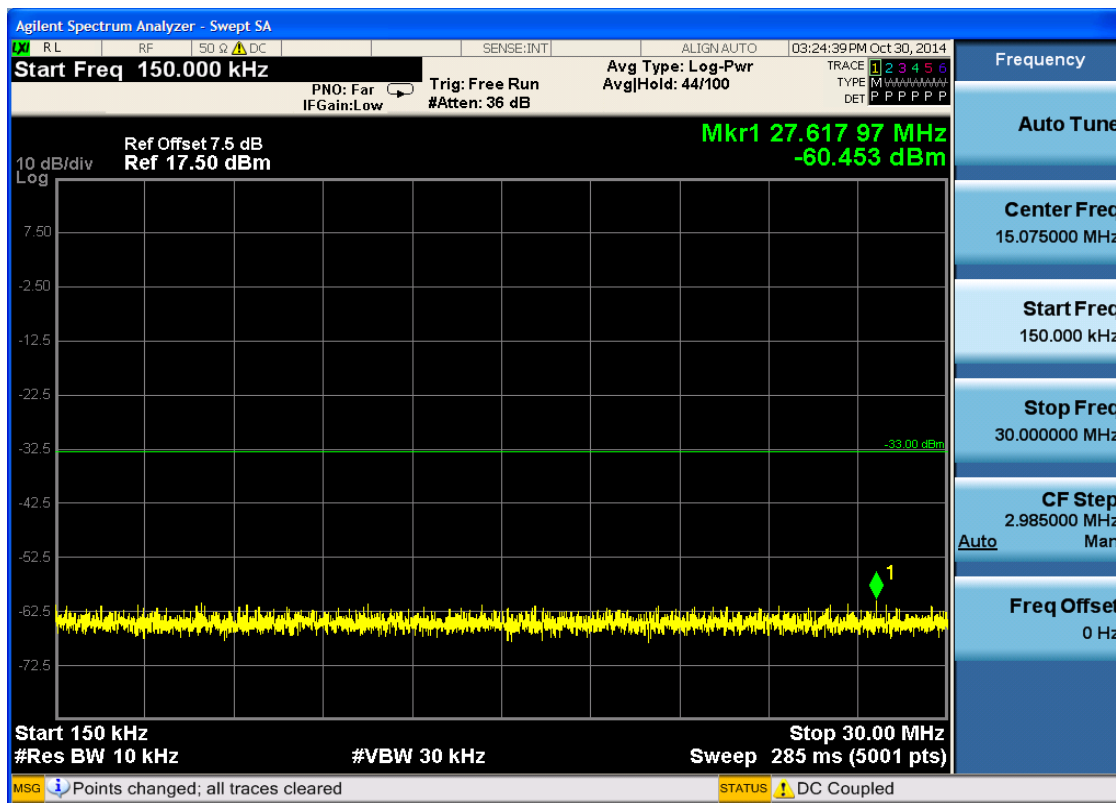


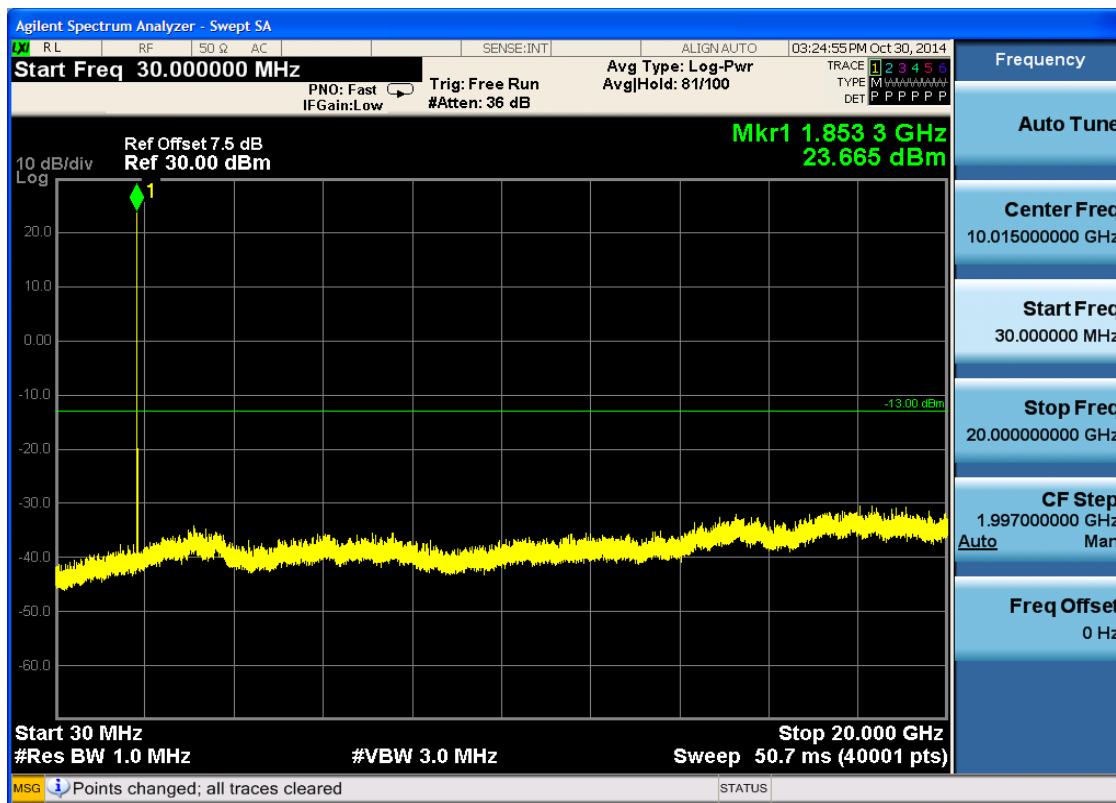
6.2.2 Test Band = WCDMA1900

6.2.2.1 Test Mode = UMTS/TM1

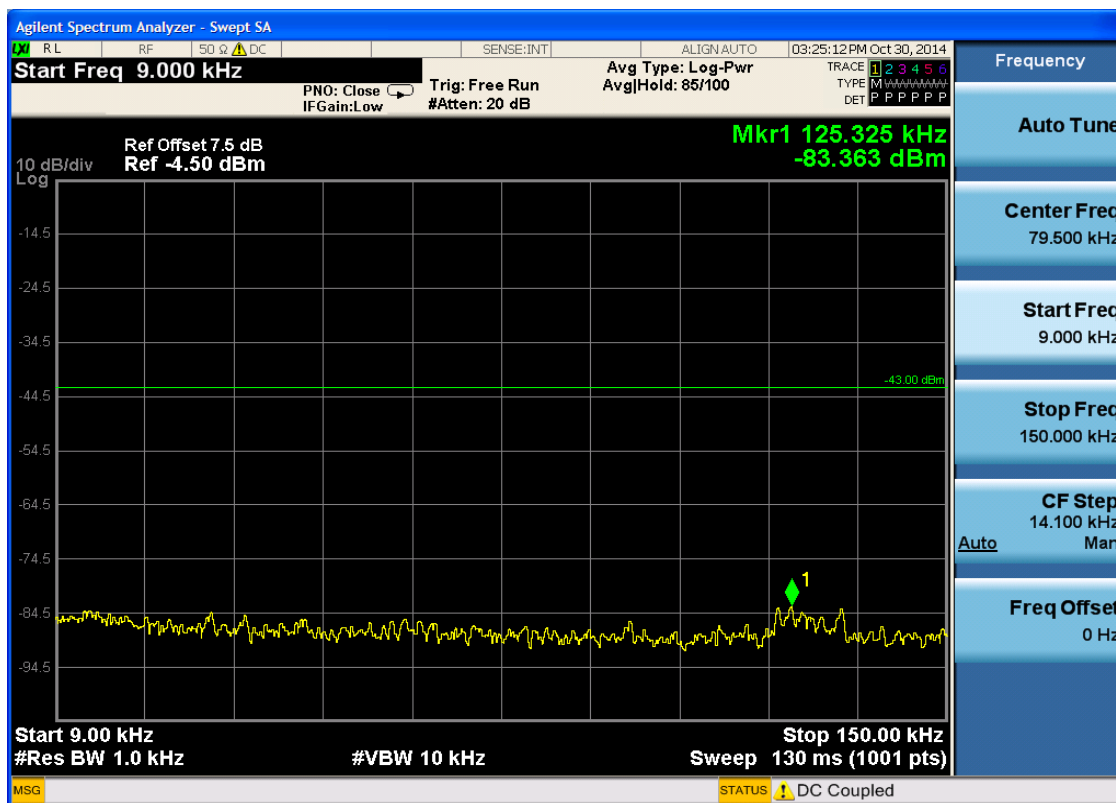
6.2.2.1.1 Test Channel = LCH

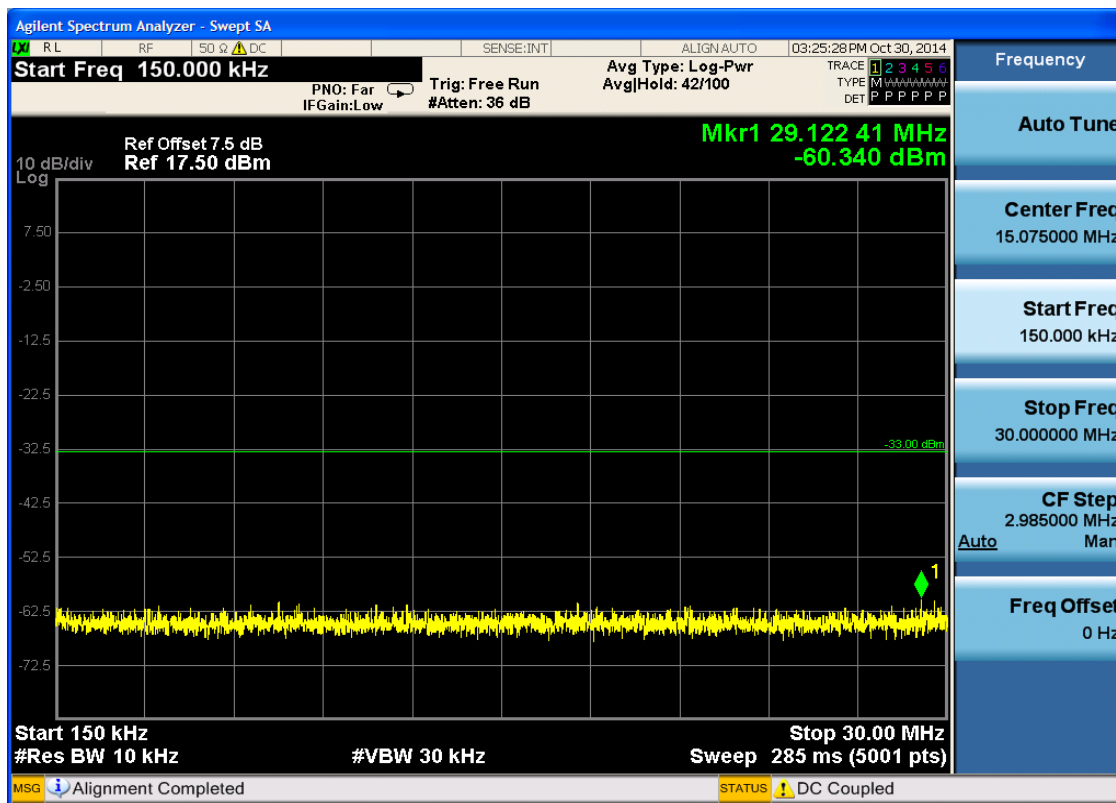


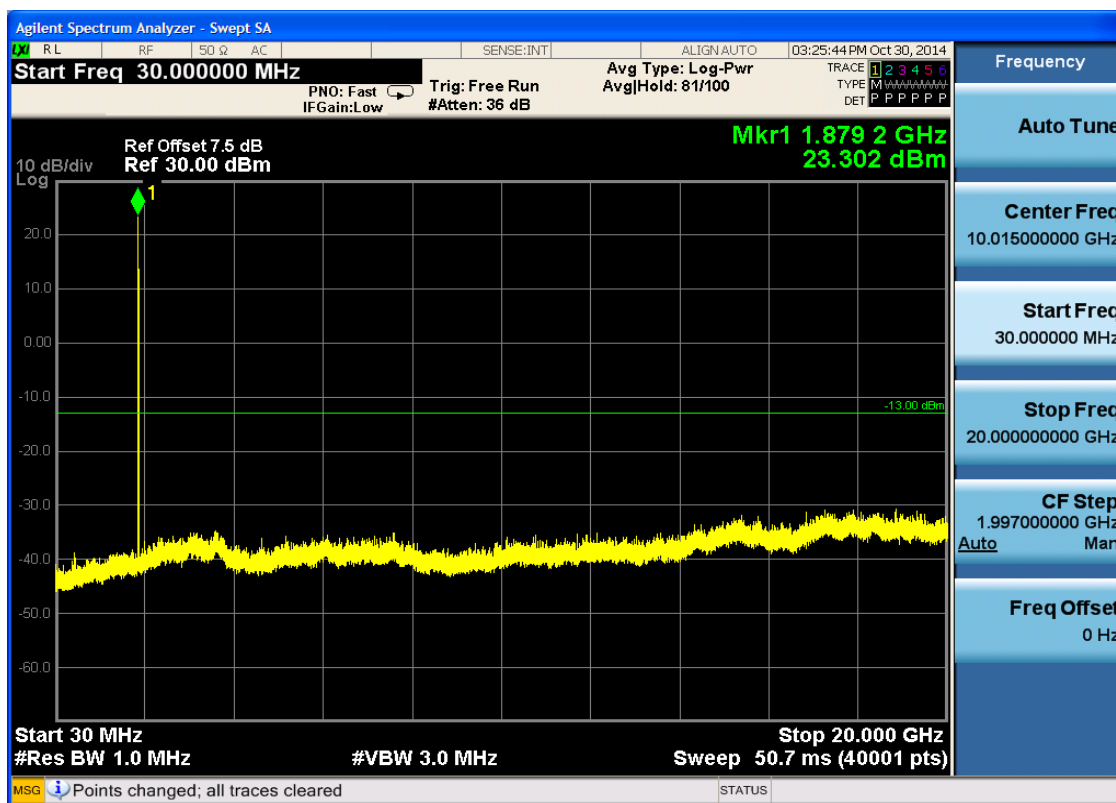




6.2.2.1.2 Test Channel = MCH









6.2.2.1.3 Test Channel = HCH

