



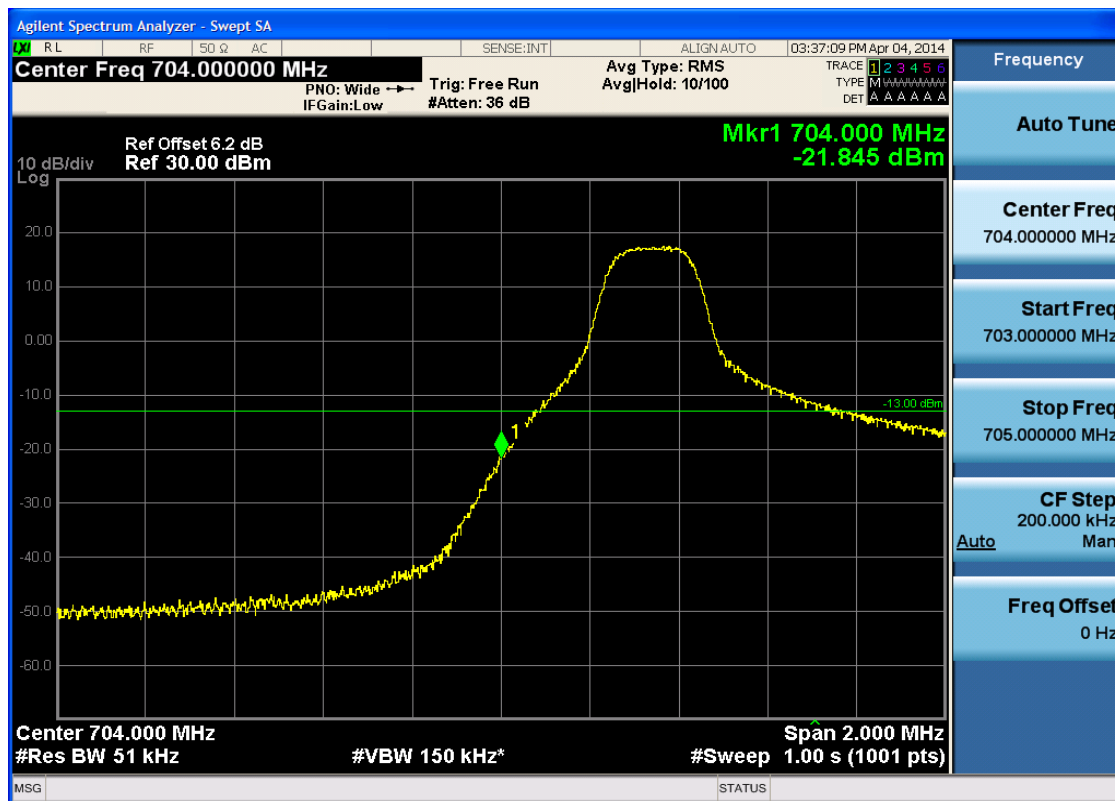
5.3.3 Test Band = BAND17

5.3.3.1 Test Mode = LTE/TM1

5.3.3.1.1 Test Bandwidth = 5

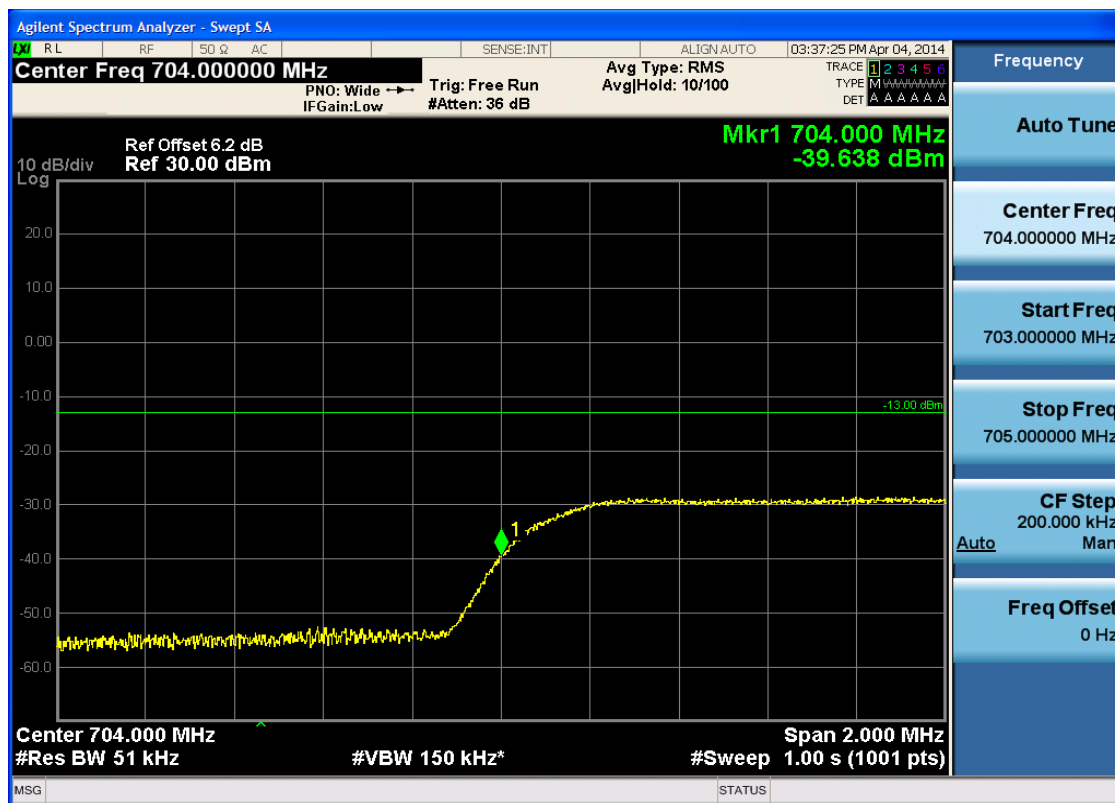
5.3.3.1.1.1 Test Channel = LCH

5.3.3.1.1.1.1 Test RB = RB1#0





5.3.3.1.1.2 Test RB = RB1#24



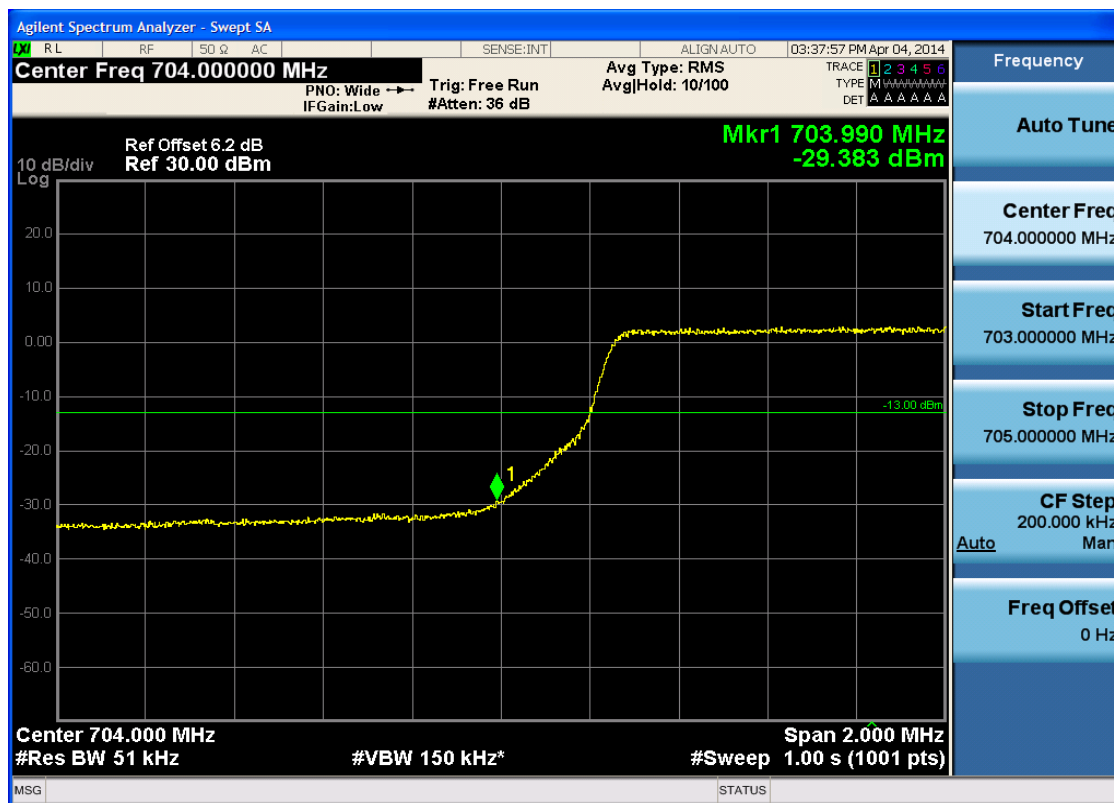


5.3.3.1.1.1.3 Test RB = RB12#6





5.3.3.1.1.1.4 Test RB = RB25#0





5.3.3.1.1.2 Test Channel = HCH

5.3.3.1.1.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

03:38:35 PM Apr 04, 2014

Center Freq 716.000000 MHz

PNO: Wide → Trig: Free Run Avg Type: RMS

IFGain: Low #Atten: 36 dB AvgHold: 10/100

TRACE 1 2 3 4 5 6

TYPE M P H A A A A A

DET A A A A A A

Ref Offset 6.2 dB

Ref 30.00 dBm

10 dB/div

Log

Mkr1 716.000 MHz

-21.419 dBm

-13.00 dBm

1

Center 716.000 MHz

#Res BW 51 kHz

#VBW 150 kHz*

Span 2.000 MHz

#Sweep 1.00 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq

716.000000 MHz

Start Freq

715.000000 MHz

Stop Freq

717.000000 MHz

CF Step

200.000 kHz

Man

Auto

Freq Offset

0 Hz



5.3.3.1.1.2.3 Test RB = RB12#6





5.3.3.1.1.2.4 Test RB = RB25#0

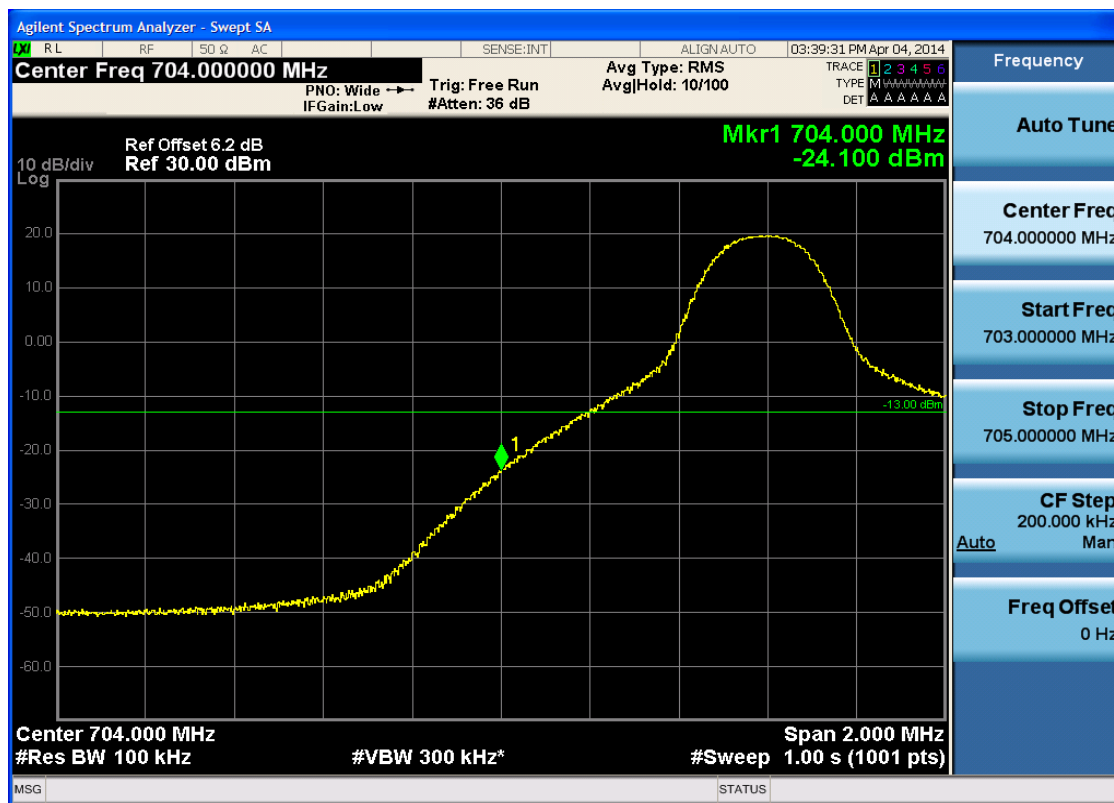




5.3.3.1.2 Test Bandwidth = 10

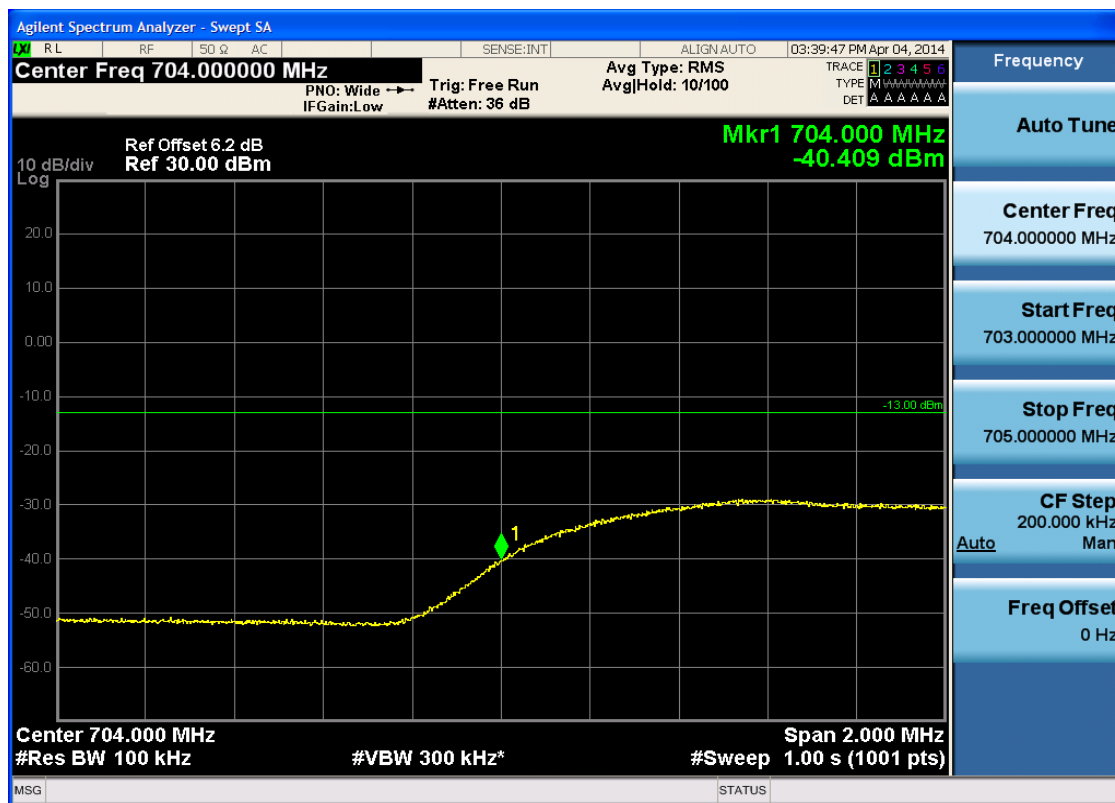
5.3.3.1.2.1 Test Channel = LCH

5.3.3.1.2.1.1 Test RB = RB1#0



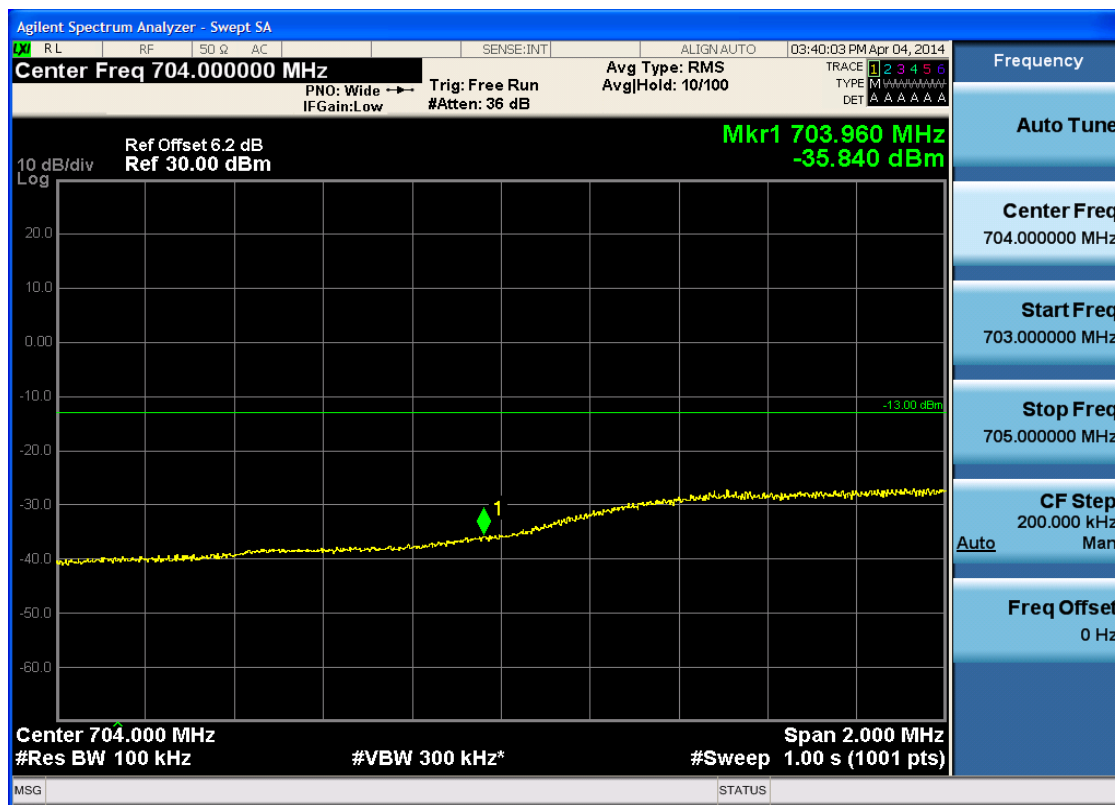


5.3.3.1.2.1.2 Test RB = RB1#49



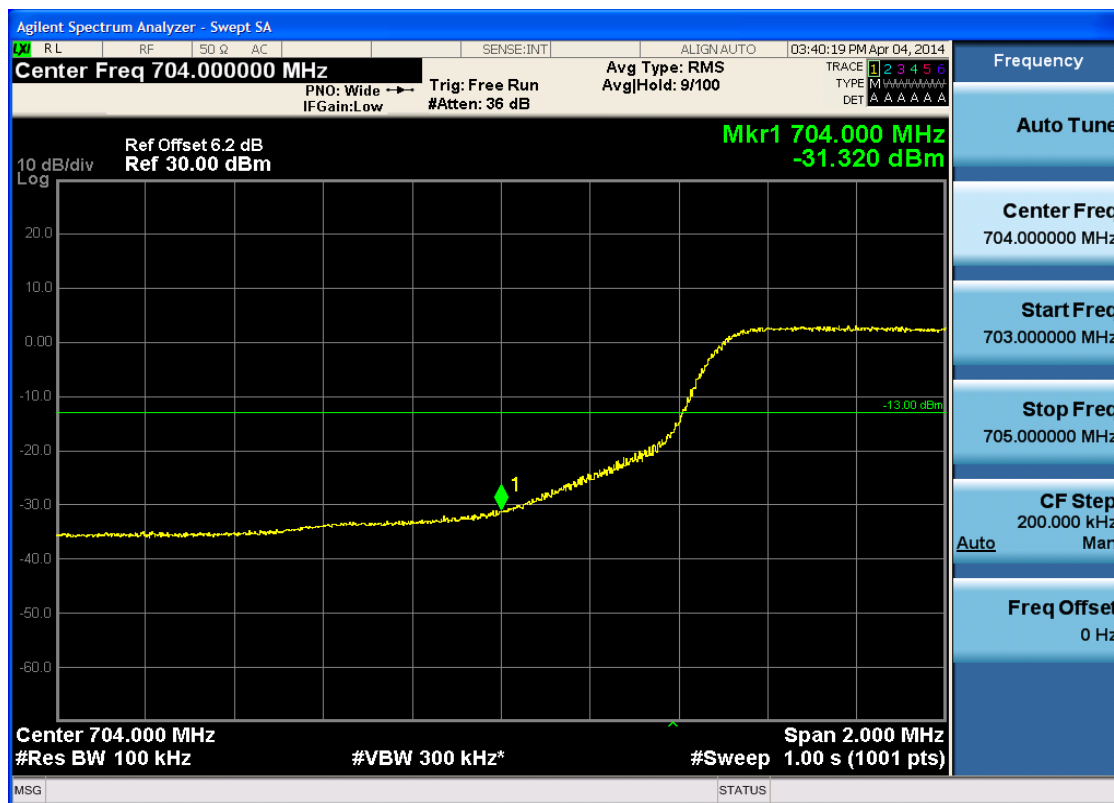


5.3.3.1.2.1.3 Test RB = RB25#13





5.3.3.1.2.1.4 Test RB = RB50#0



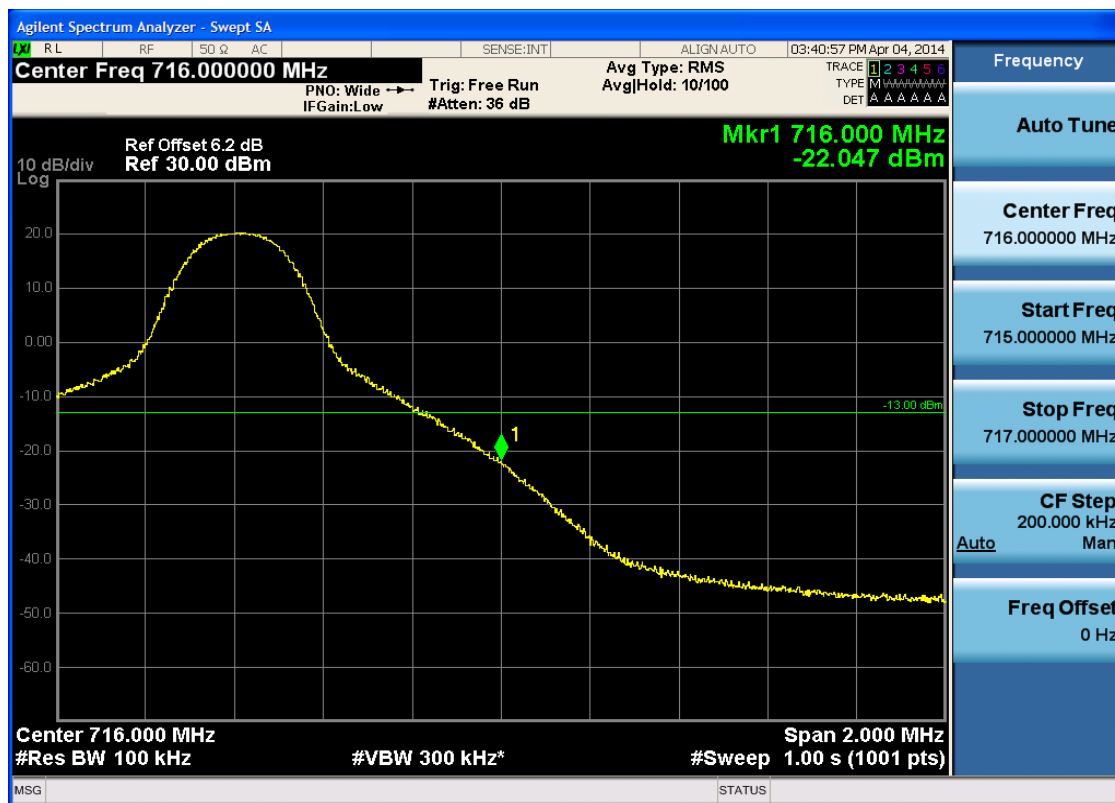


5.3.3.1.2.2 Test Channel = HCH

5.3.3.1.2.2.1 Test RB = RB1#0



5.3.3.1.2.2.2 Test RB = RB1#49



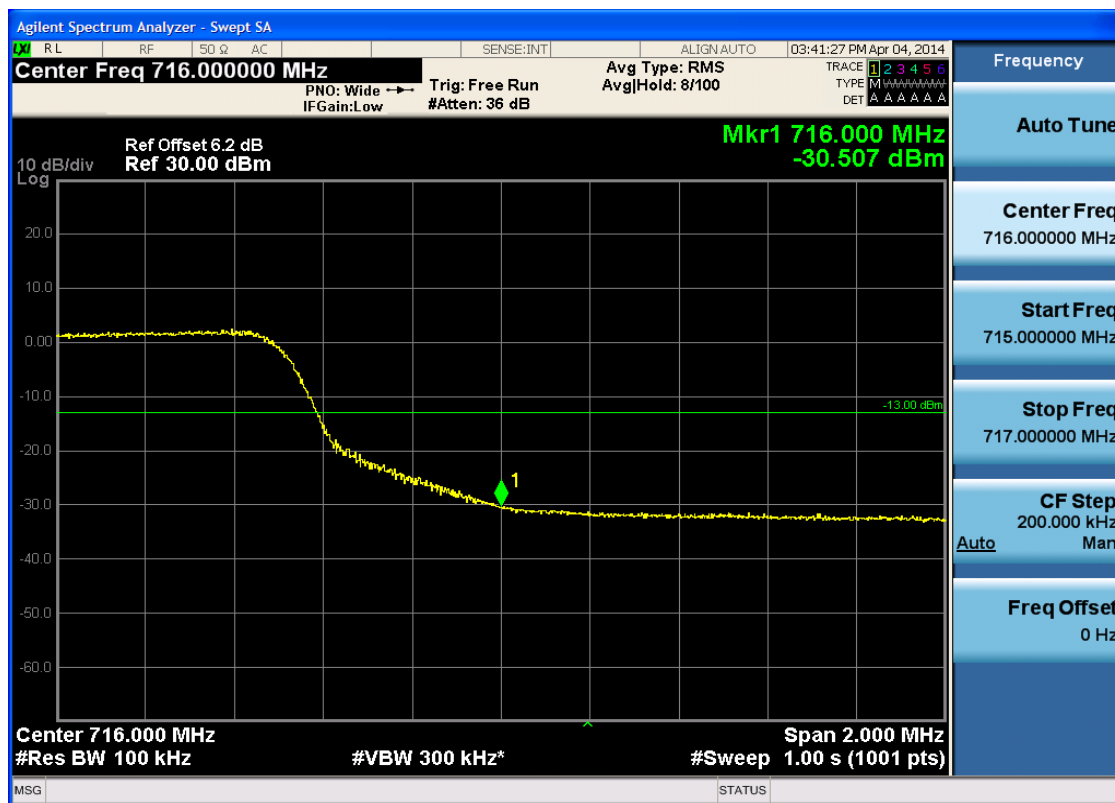


5.3.3.1.2.2.3 Test RB = RB25#13





5.3.3.1.2.2.4 Test RB = RB50#0



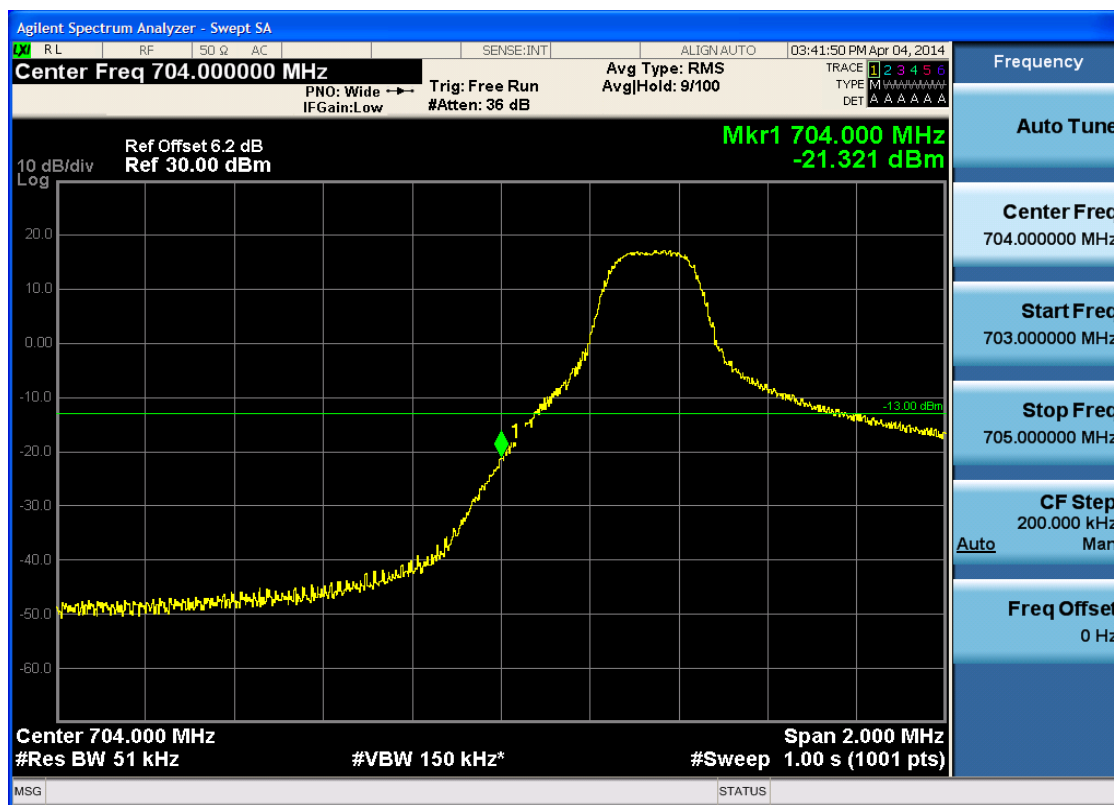


5.3.3.2 Test Mode = LTE/TM2

5.3.3.2.1 Test Bandwidth = 5

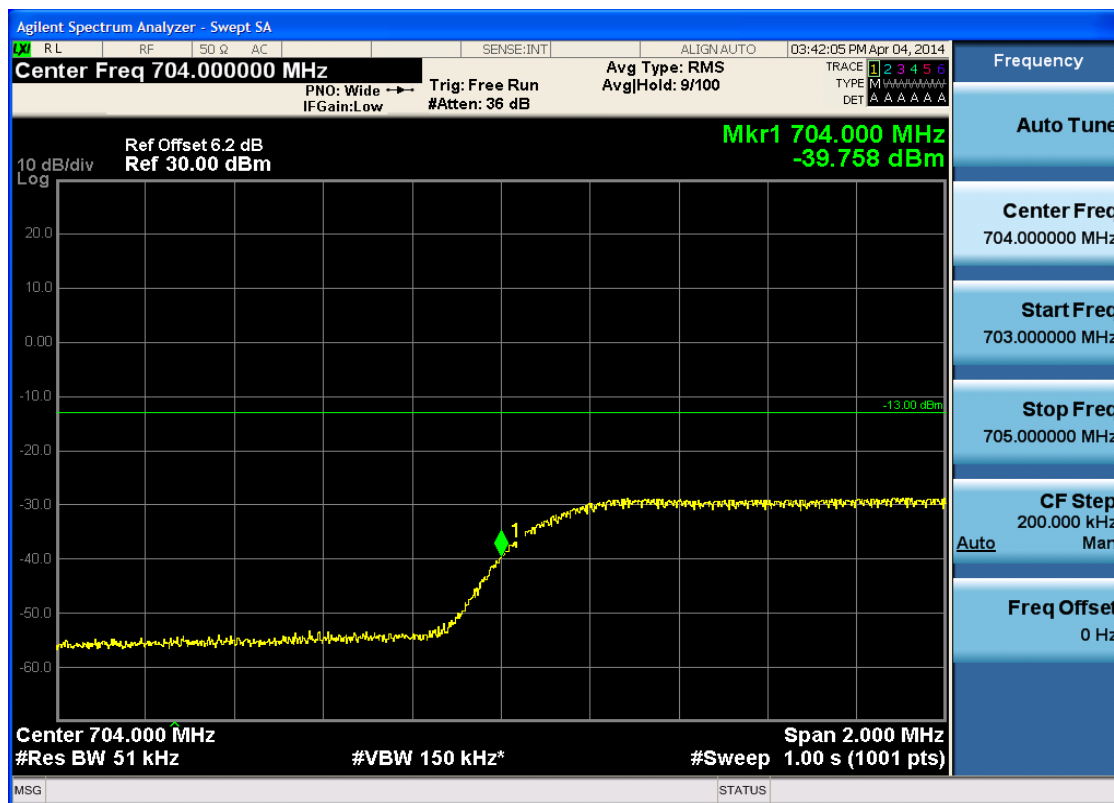
5.3.3.2.1.1 Test Channel = LCH

5.3.3.2.1.1.1 Test RB = RB1#0



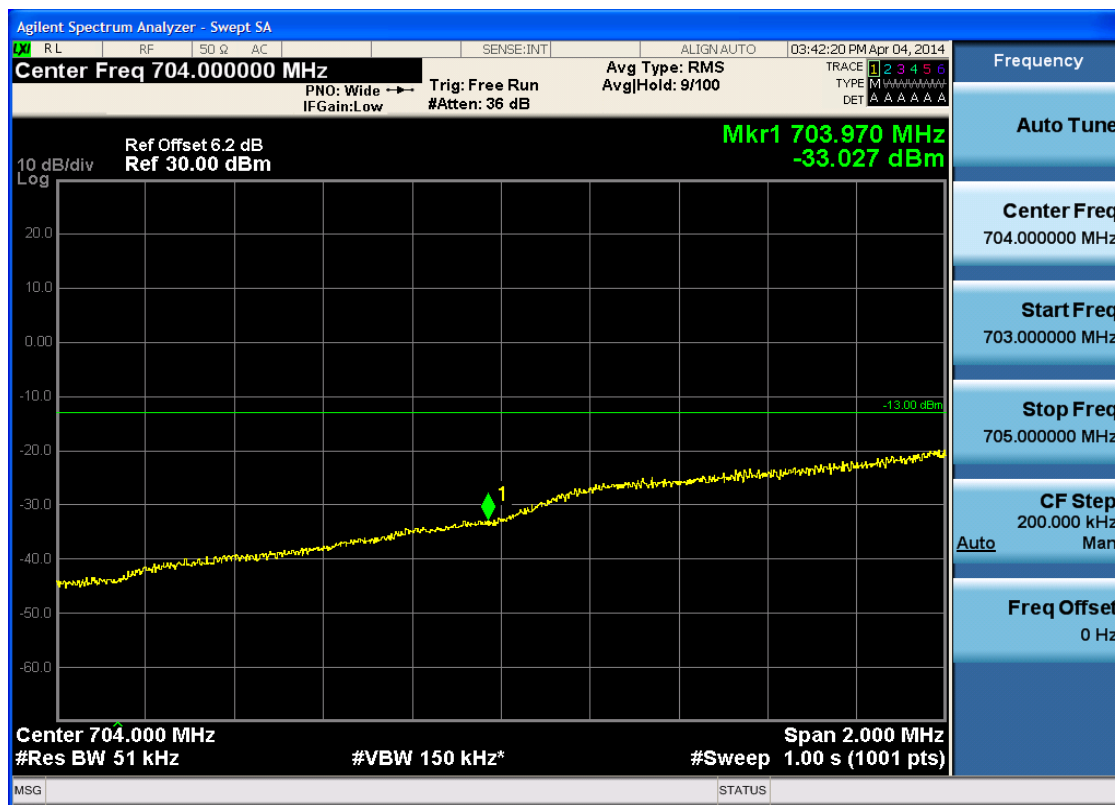


5.3.3.2.1.1.2 Test RB = RB1#24



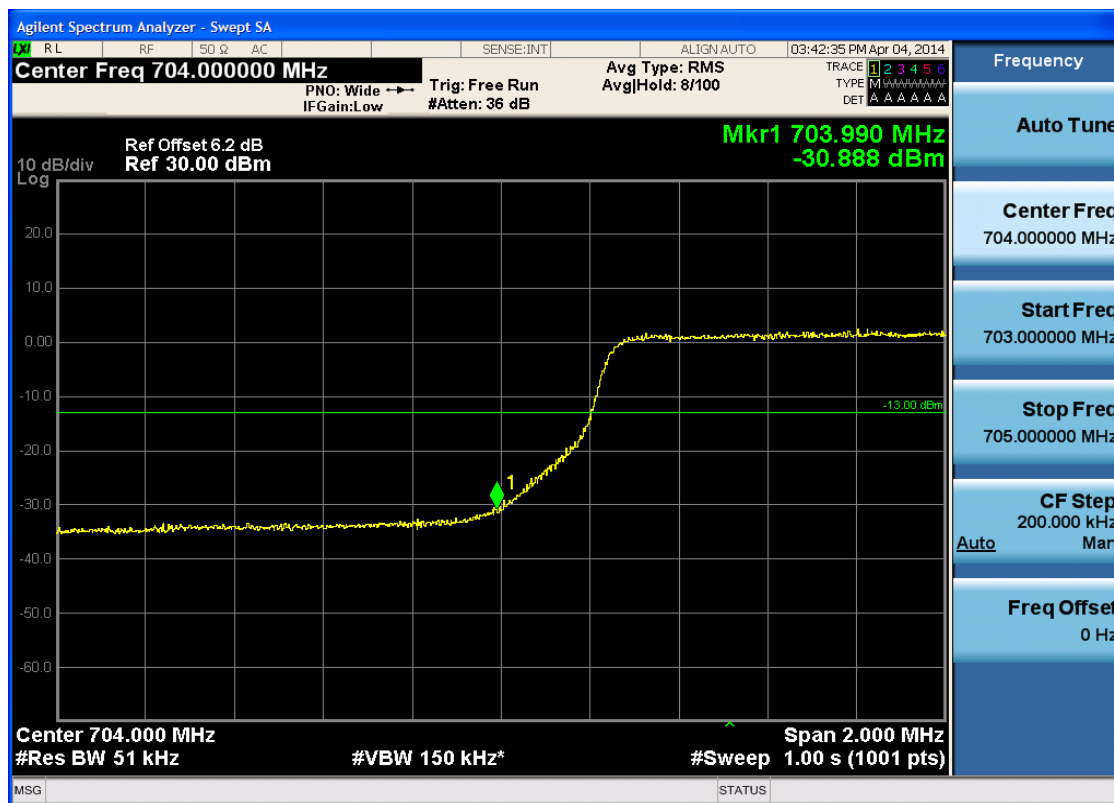


5.3.3.2.1.1.3 Test RB = RB12#6





5.3.3.2.1.1.4 Test RB = RB25#0





5.3.3.2.1.2 Test Channel = HCH

5.3.3.2.1.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

☒ R L RF 50 Ω AC SENSE:INT ALIGN:AUTO 03:43:10 PM Apr 04, 2014

Center Freq 716.000000 MHz Avg Type: RMS TRACE 1 2 3 4 5 6
 PNO: Wide → Trig: Free Run Avg/Hold: 9/100 TYPE M W W W W W W W W W
 IF Gain: Low #Atten: 36 dB DET A A A A A A A

10 dB/div Ref Offset 6.2 dB **Mkr1 716.000 MHz**
 Log Ref 30.00 dBm **-21.160 dBm**

Center 716.000 MHz Span 2.000 MHz
 #Res BW 51 kHz #VBW 150 kHz* #Sweep 1.00 s (1001 pts)

MSG STATUS



5.3.3.2.1.2.3 Test RB = RB12#6





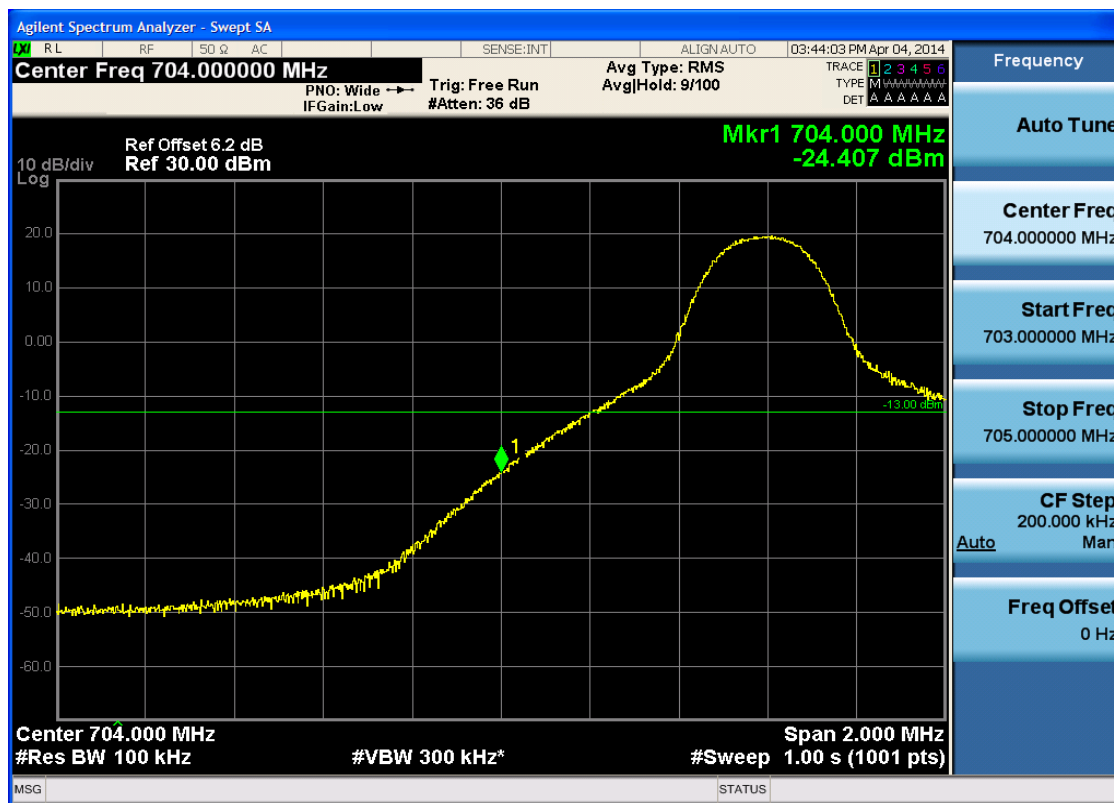
5.3.3.2.1.2.4 Test RB = RB25#0



5.3.3.2.2 Test Bandwidth = 10

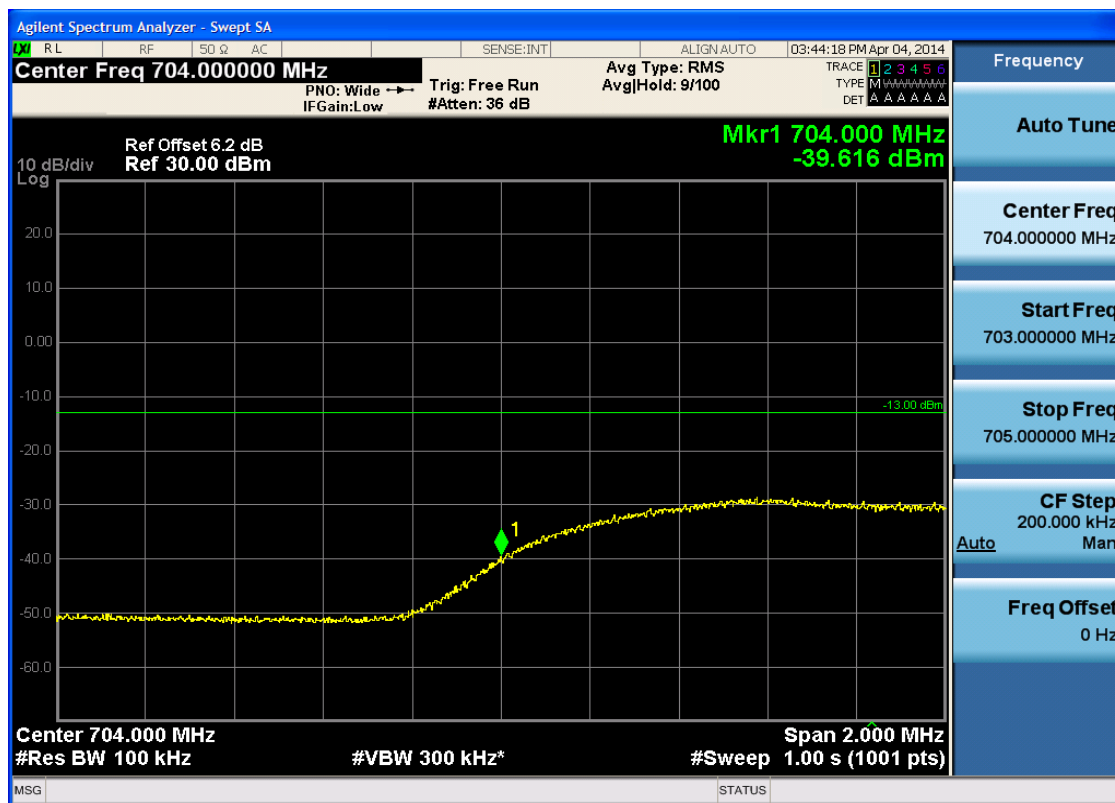
5.3.3.2.2.1 Test Channel = LCH

5.3.3.2.2.1.1 Test RB = RB1#0



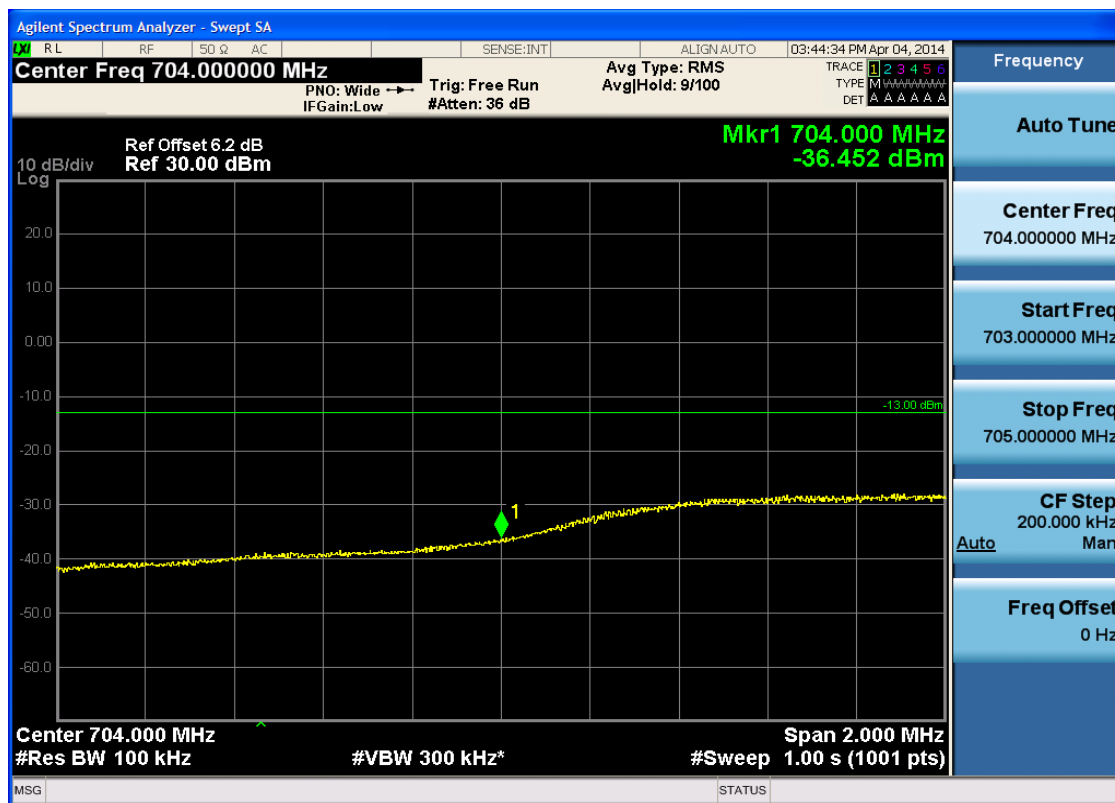


5.3.3.2.2.1.2 Test RB = RB1#49



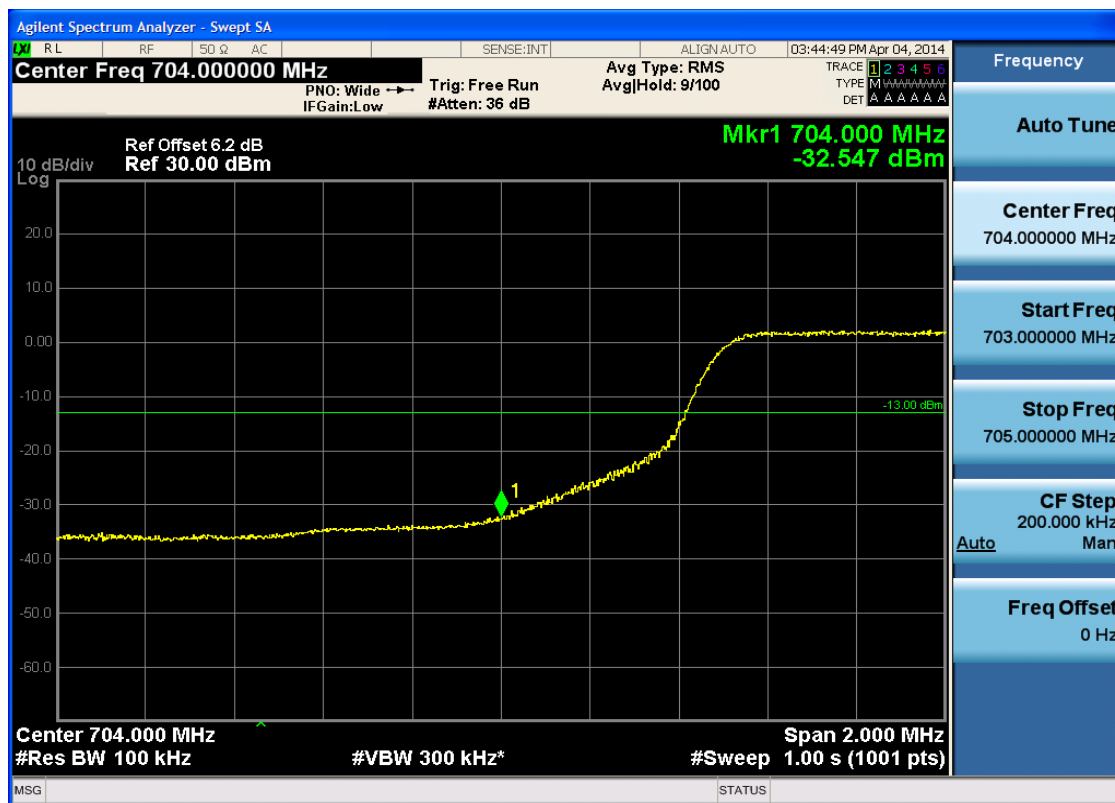


5.3.3.2.2.1.3 Test RB = RB25#13





5.3.3.2.2.1.4 Test RB = RB50#0





5.3.3.2.2 Test Channel = HCH

5.3.3.2.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 03:45:25 PM Apr 04, 2014

Center Freq 716.000000 MHz

PNO: Wide Trg: Free Run Avg Type: RMS
IFGain: Low #Atten: 36 dB AvgHold: 9/100

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

Ref Offset 6.2 dB
Ref 30.00 dBm

Mkr1 716.000 MHz
-22.412 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 716.000 MHz
#Res BW 100 kHz #VBW 300 kHz* Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
716.000000 MHz

Start Freq
715.000000 MHz

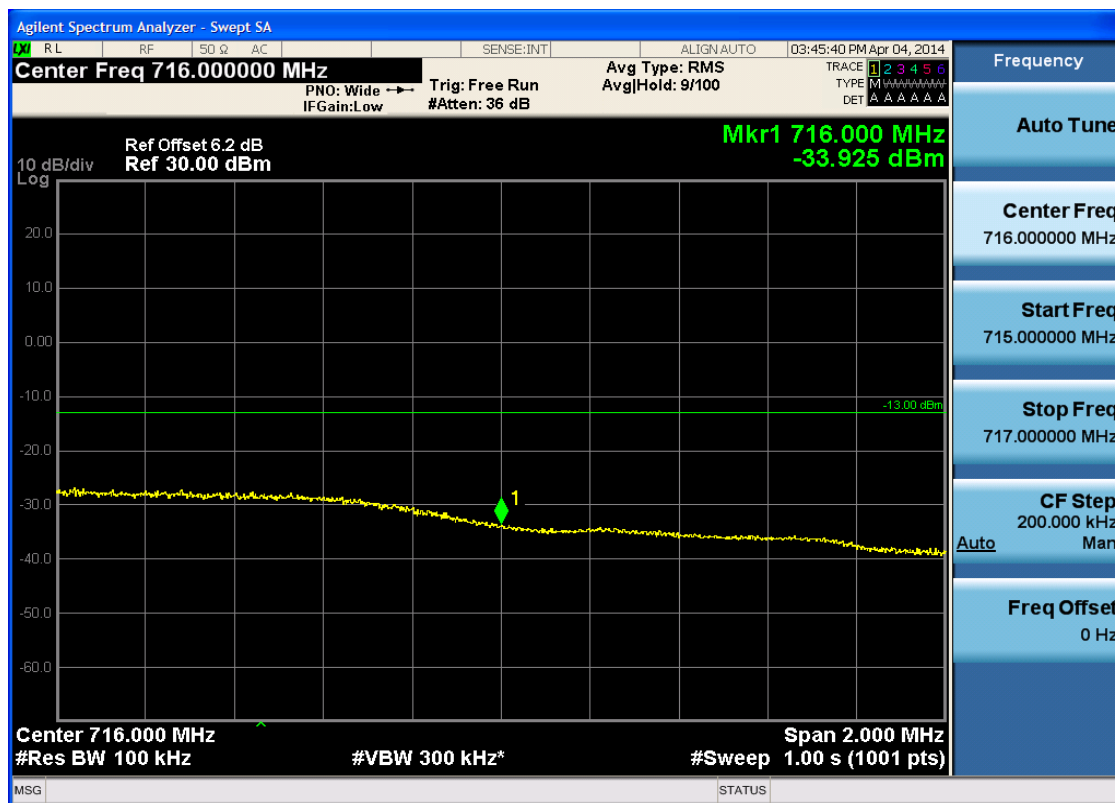
Stop Freq
717.000000 MHz

CF Step
200.000 kHz
Auto

Freq Offset
0 Hz

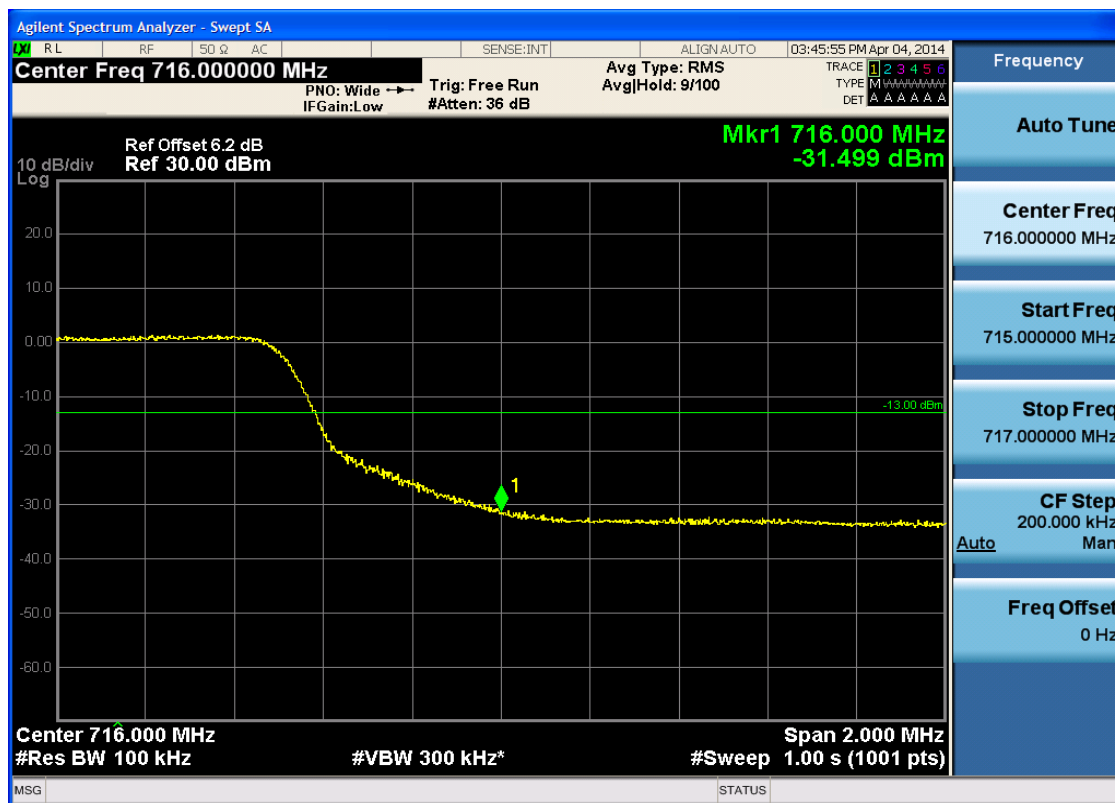


5.3.3.2.2.3 Test RB = RB25#13





5.3.3.2.2.4 Test RB = RB50#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.

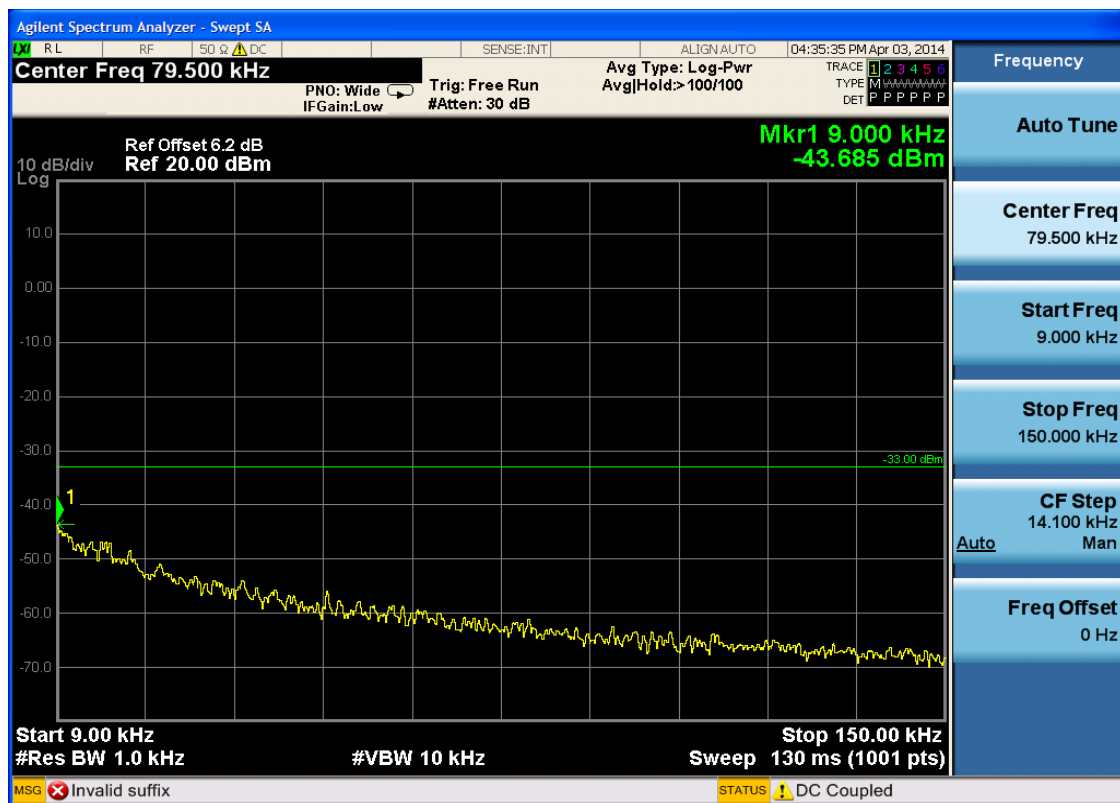
Part I - Test Plots

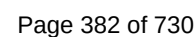
6.1 For GSM

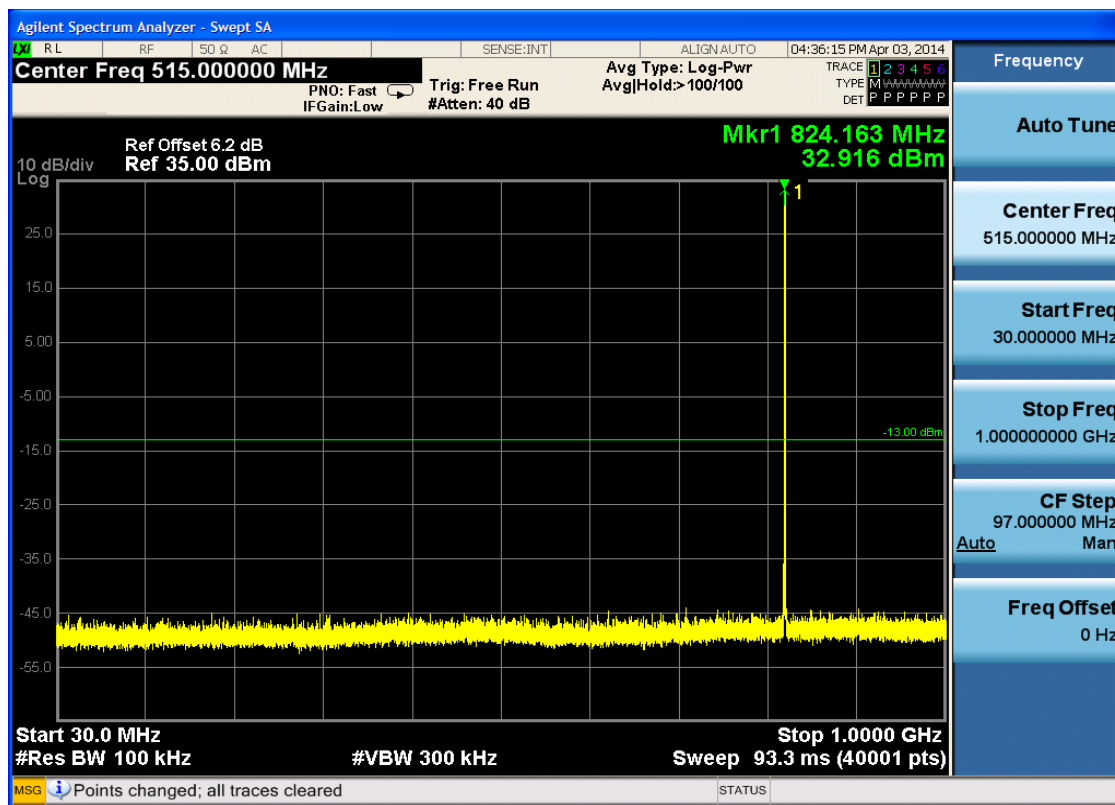
6.1.1 Test Band = GSM850

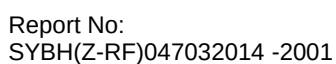
6.1.1.1 Test Mode = GSM/TM1

6.1.1.1.1 Test Channel = LCH

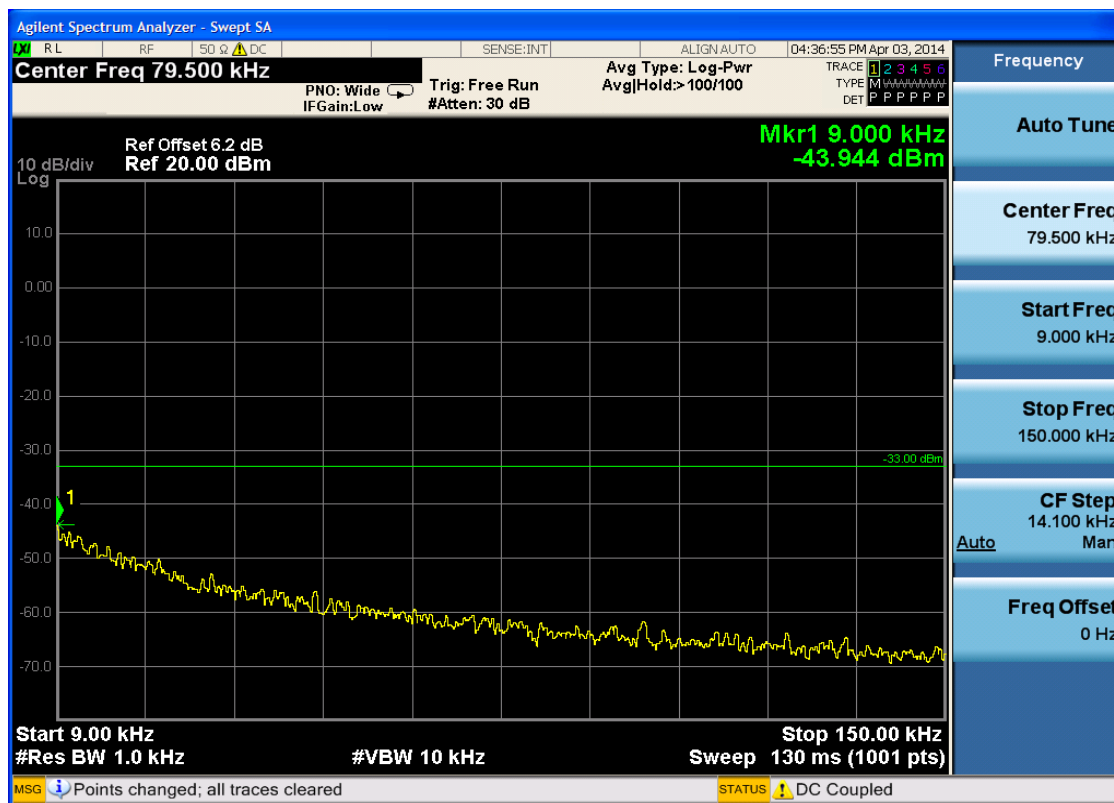


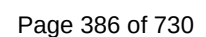


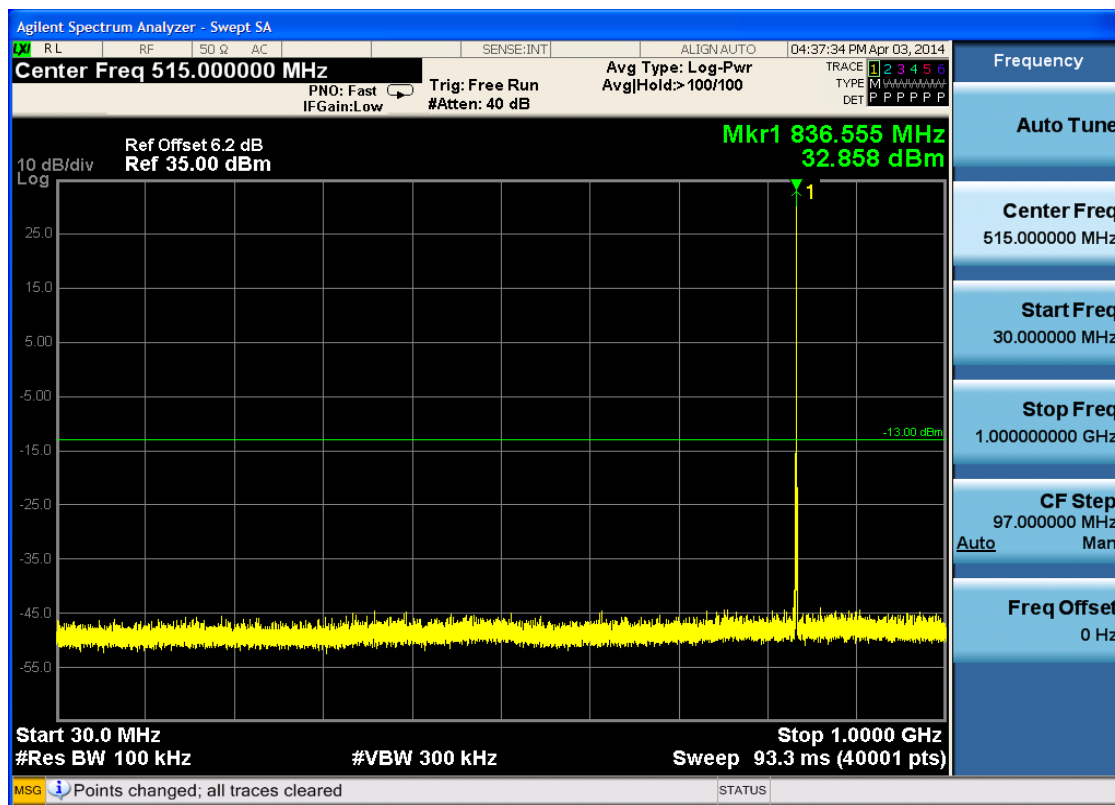


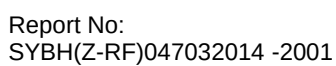


6.1.1.1.2 Test Channel = MCH



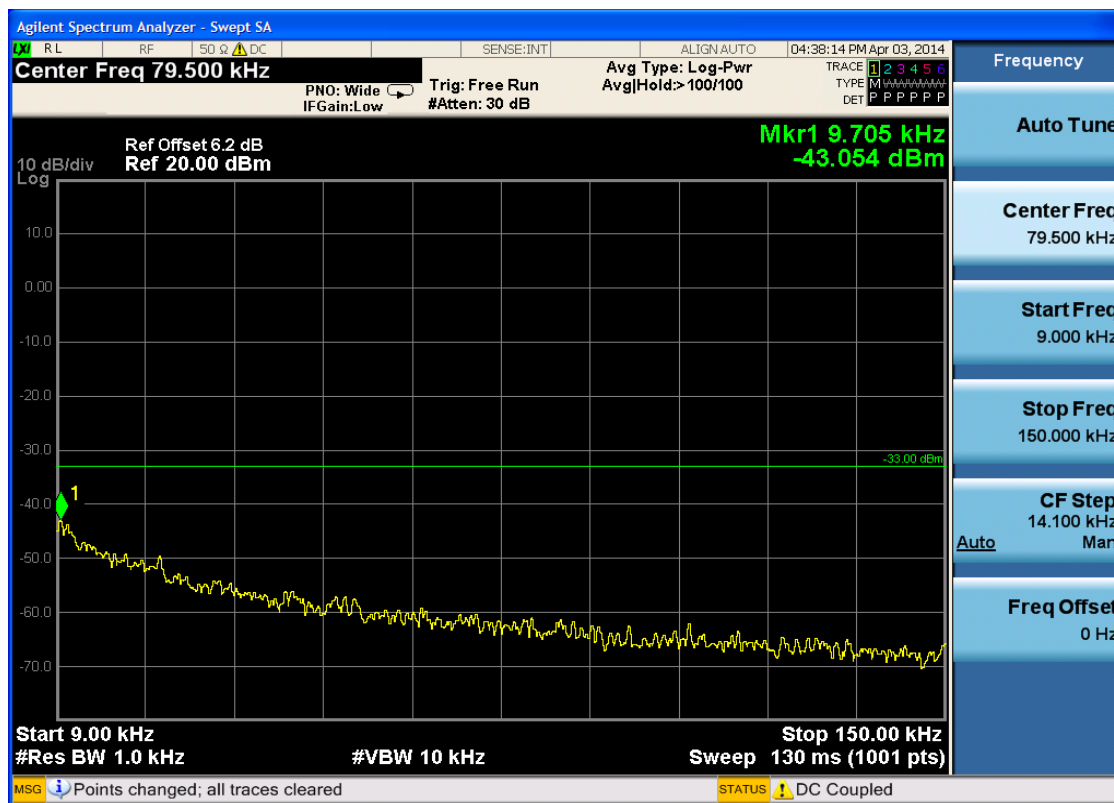


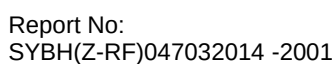


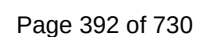




6.1.1.1.3 Test Channel = HCH

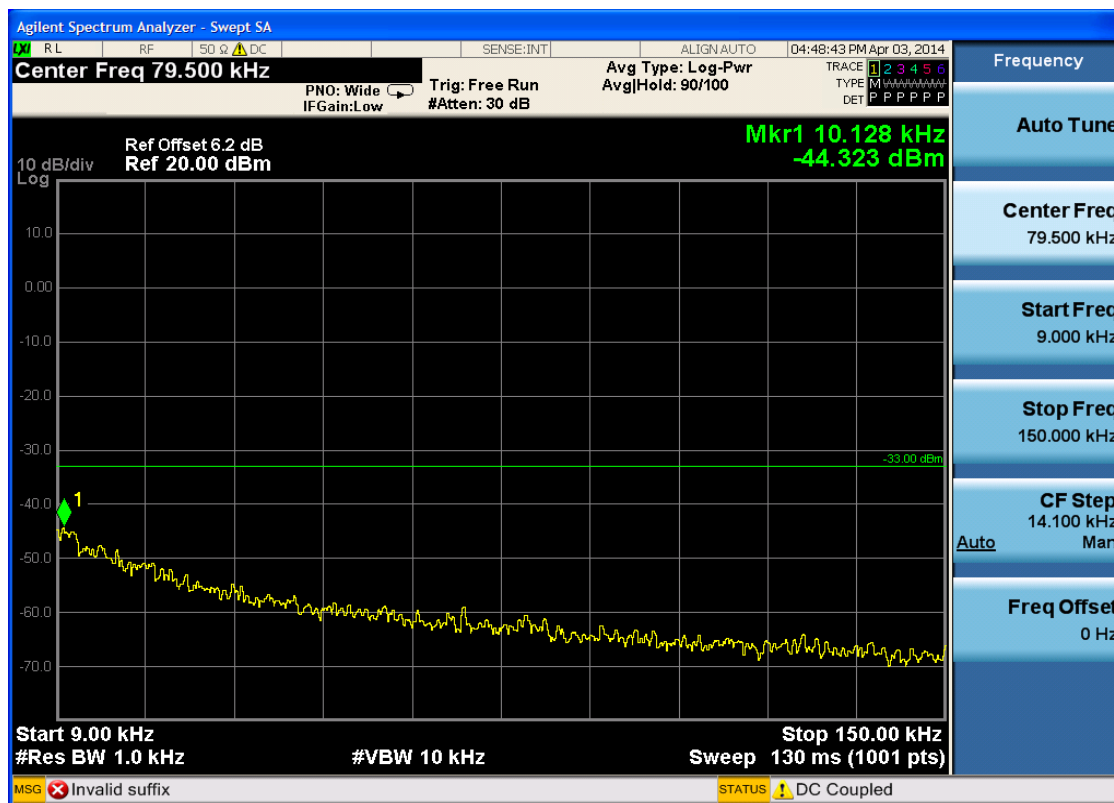


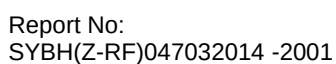


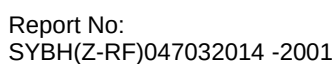


6.1.1.2 Test Mode = GSM/TM2

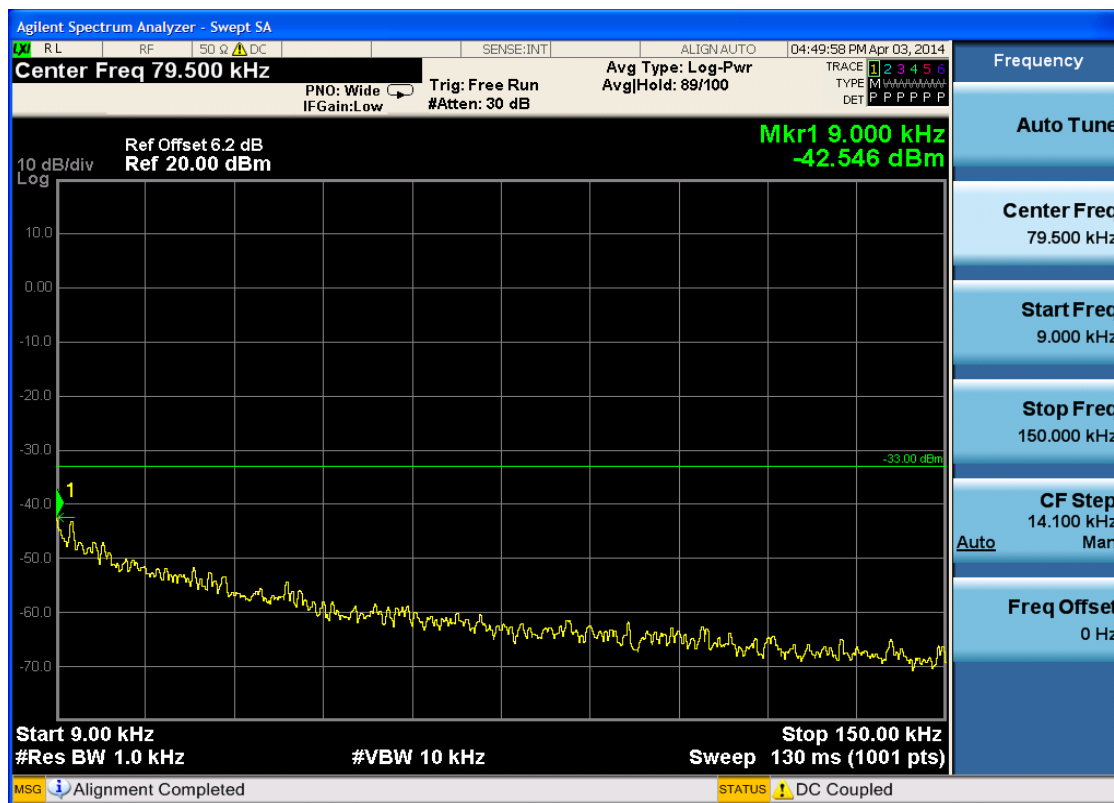
6.1.1.2.1 Test Channel = LCH

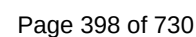


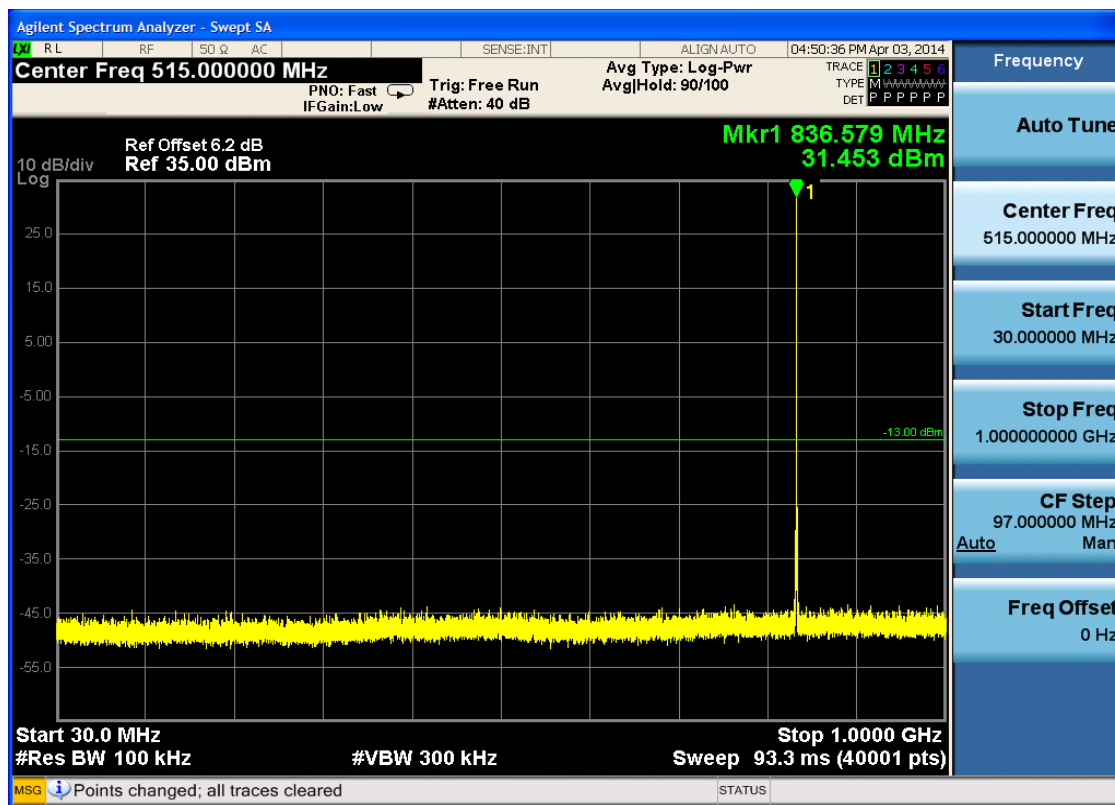


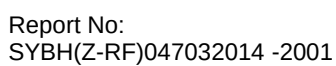


6.1.1.2.2 Test Channel = MCH



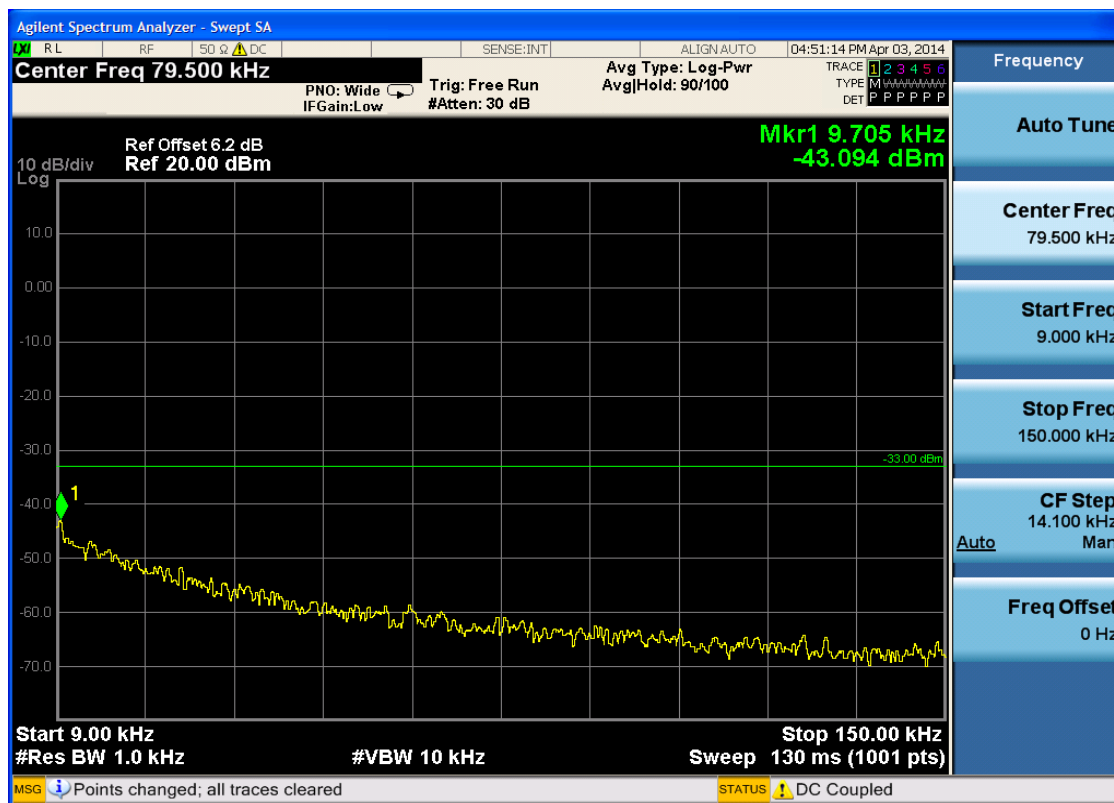


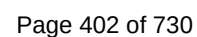


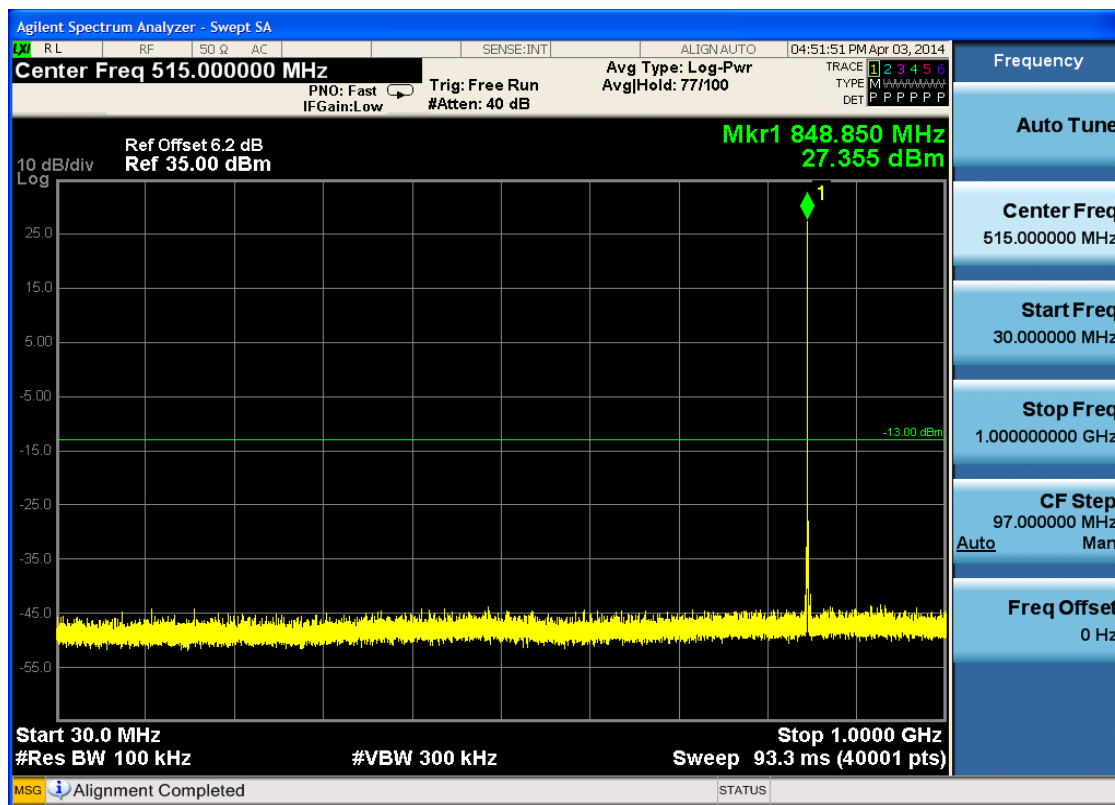


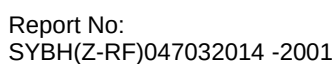


6.1.1.2.3 Test Channel = HCH







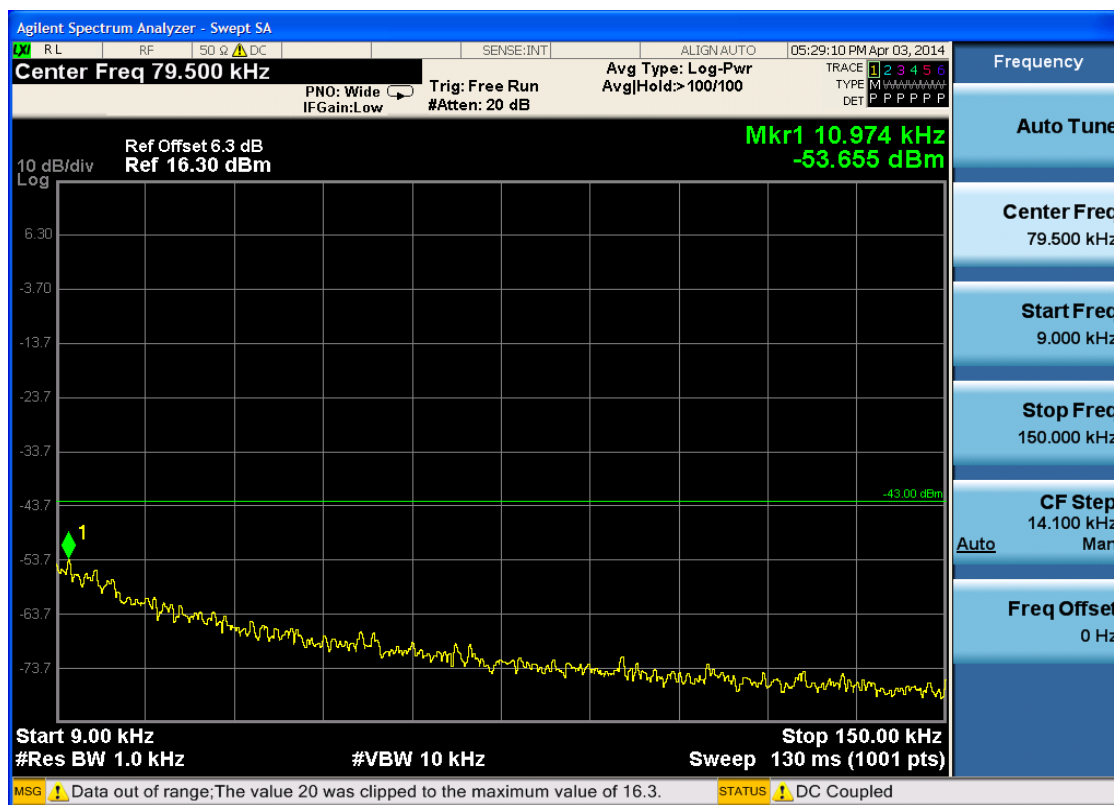


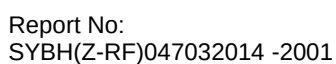


6.1.2 Test Band = GSM1900

6.1.2.1 Test Mode = GSM/TM1

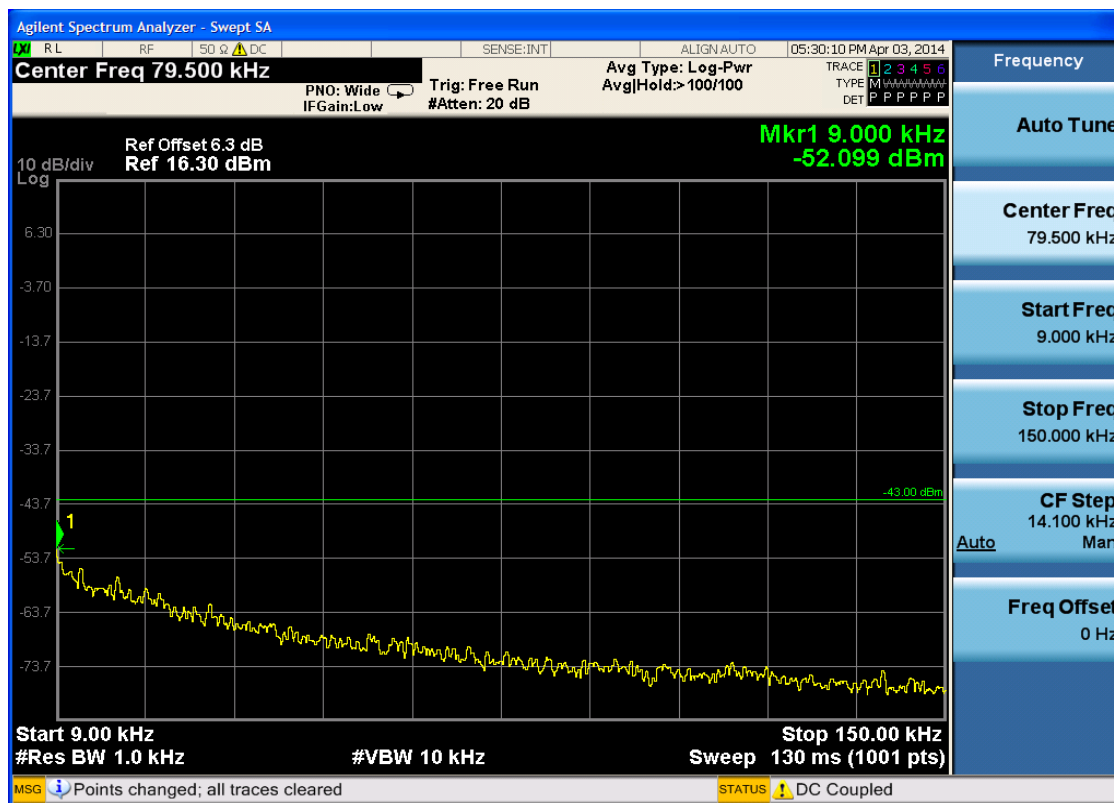
6.1.2.1.1 Test Channel = LCH

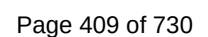
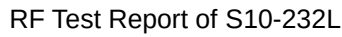


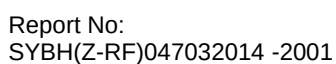




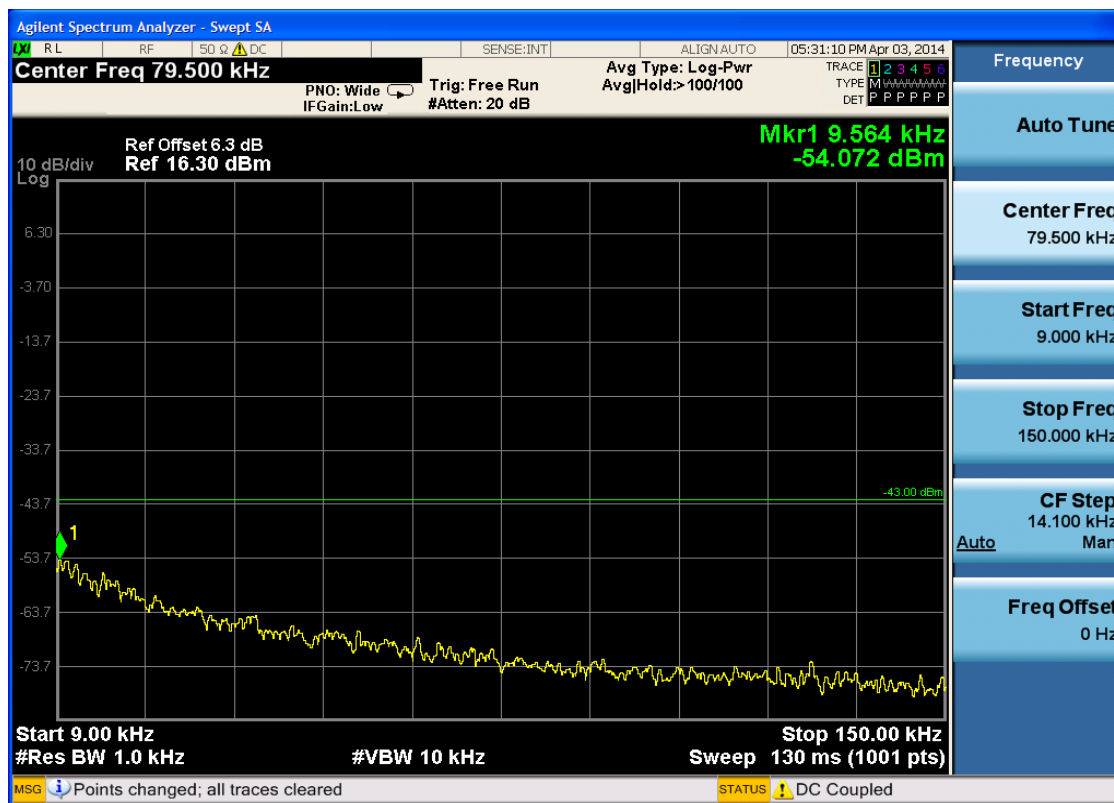
6.1.2.1.2 Test Channel = MCH

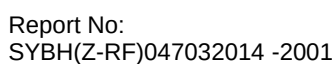






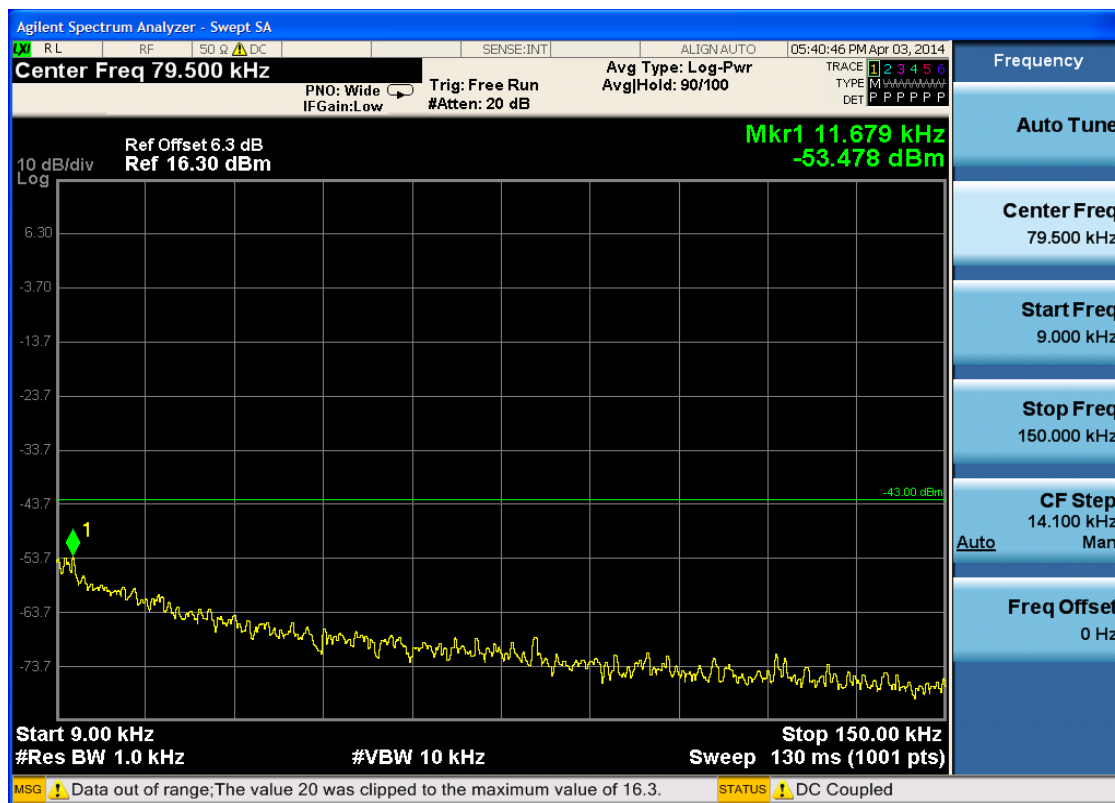
6.1.2.1.3 Test Channel = HCH

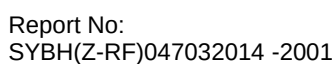


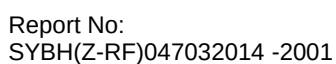


6.1.2.2 Test Mode = GSM/TM2

6.1.2.2.1 Test Channel = LCH

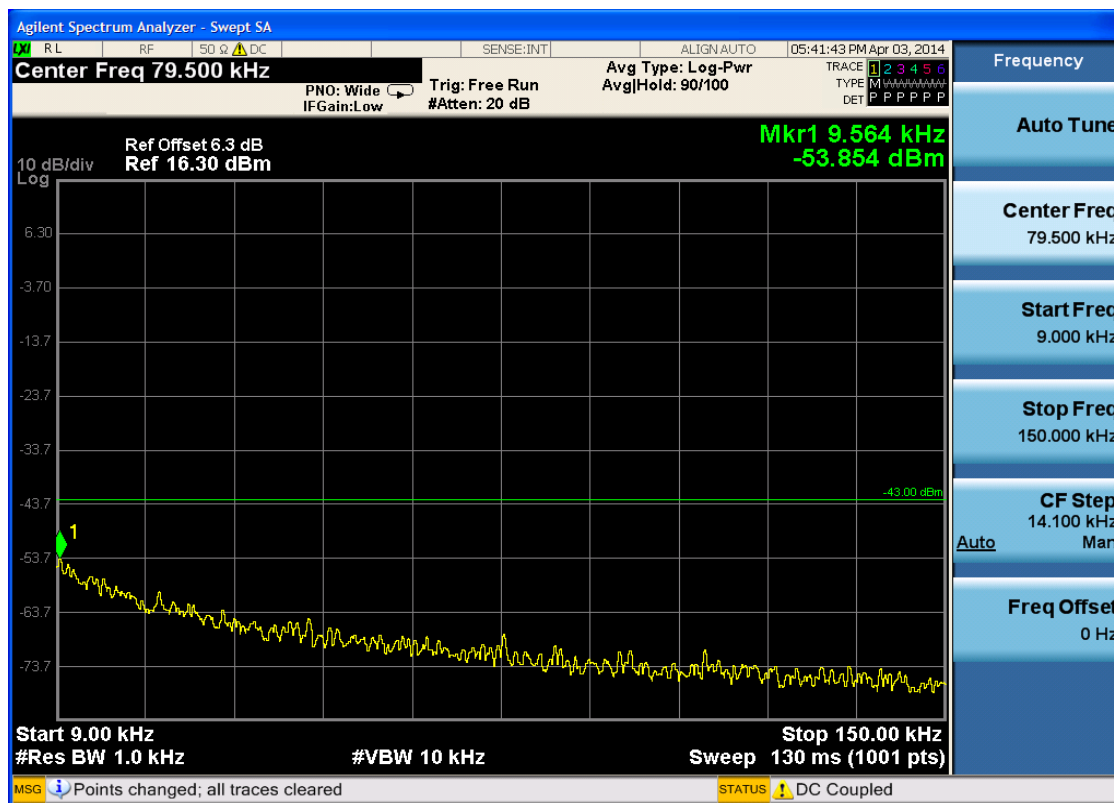


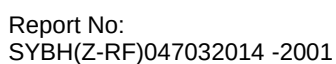






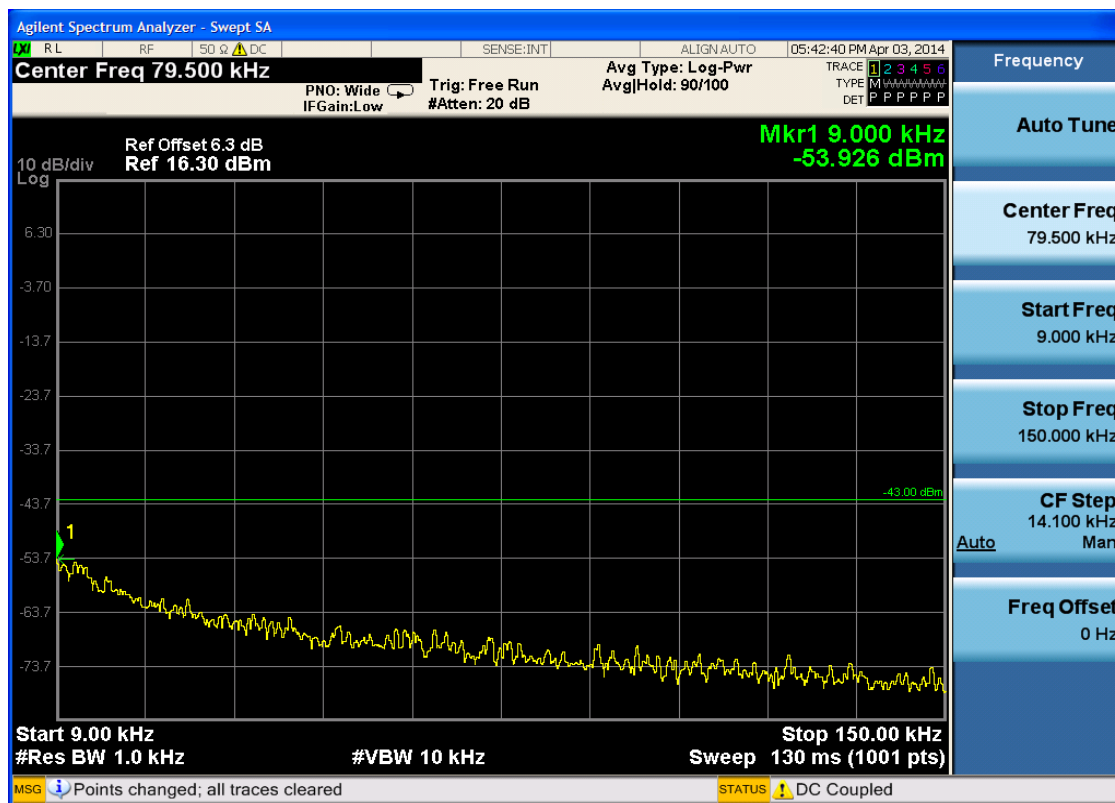
6.1.2.2.2 Test Channel = MCH

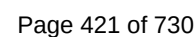


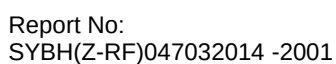




6.1.2.2.3 Test Channel = HCH





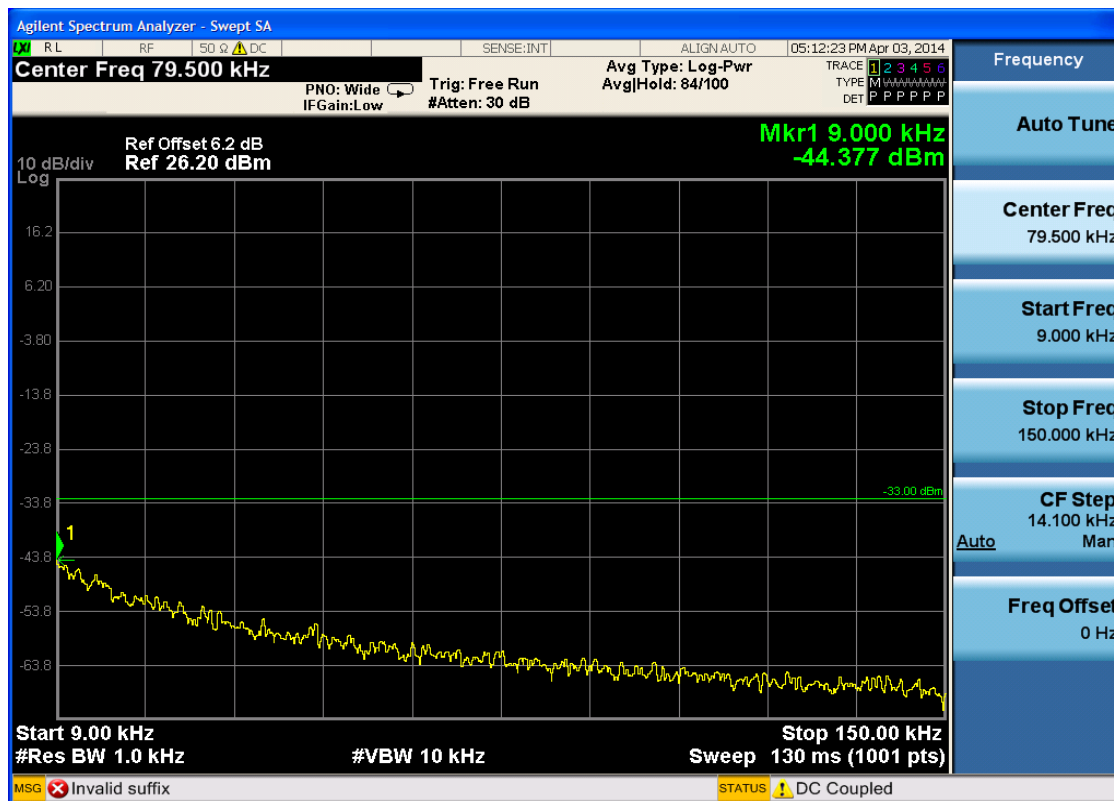


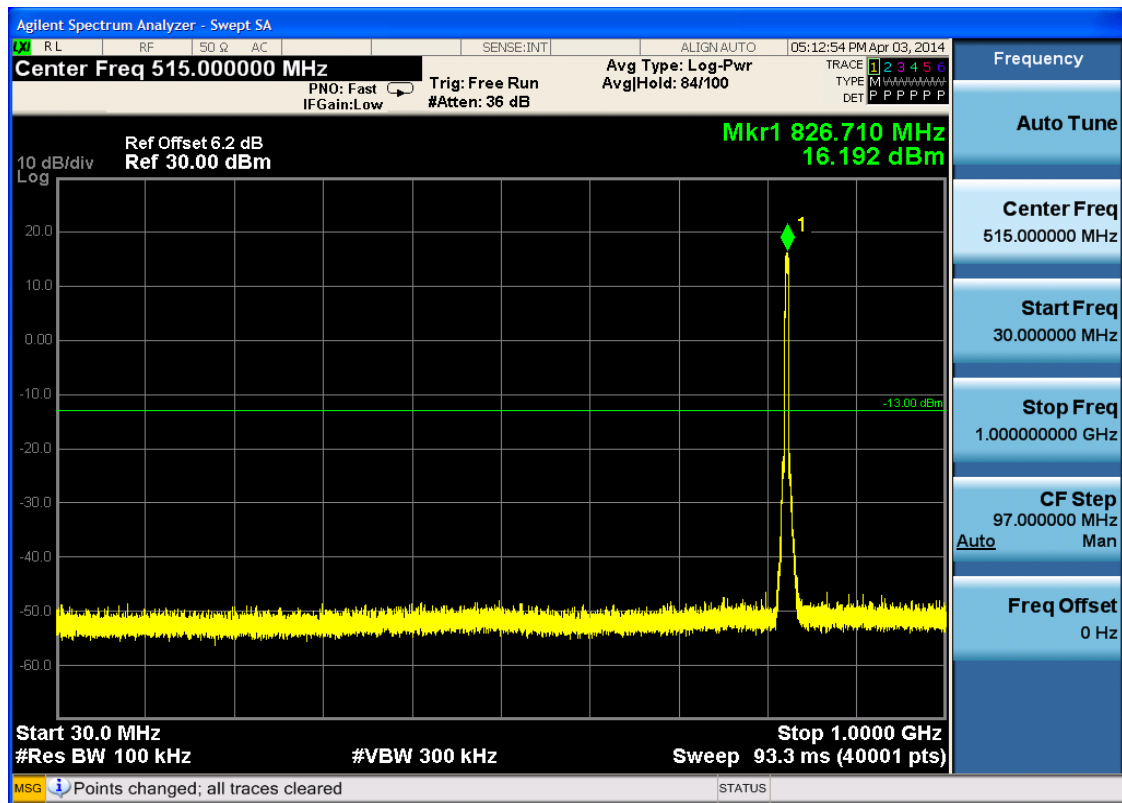
6.2 For UMTS

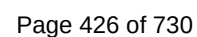
6.2.1 Test Band = WCDMA850

6.2.1.1 Test Mode = UMTS/TM1

6.2.1.1.1 Test Channel = LCH

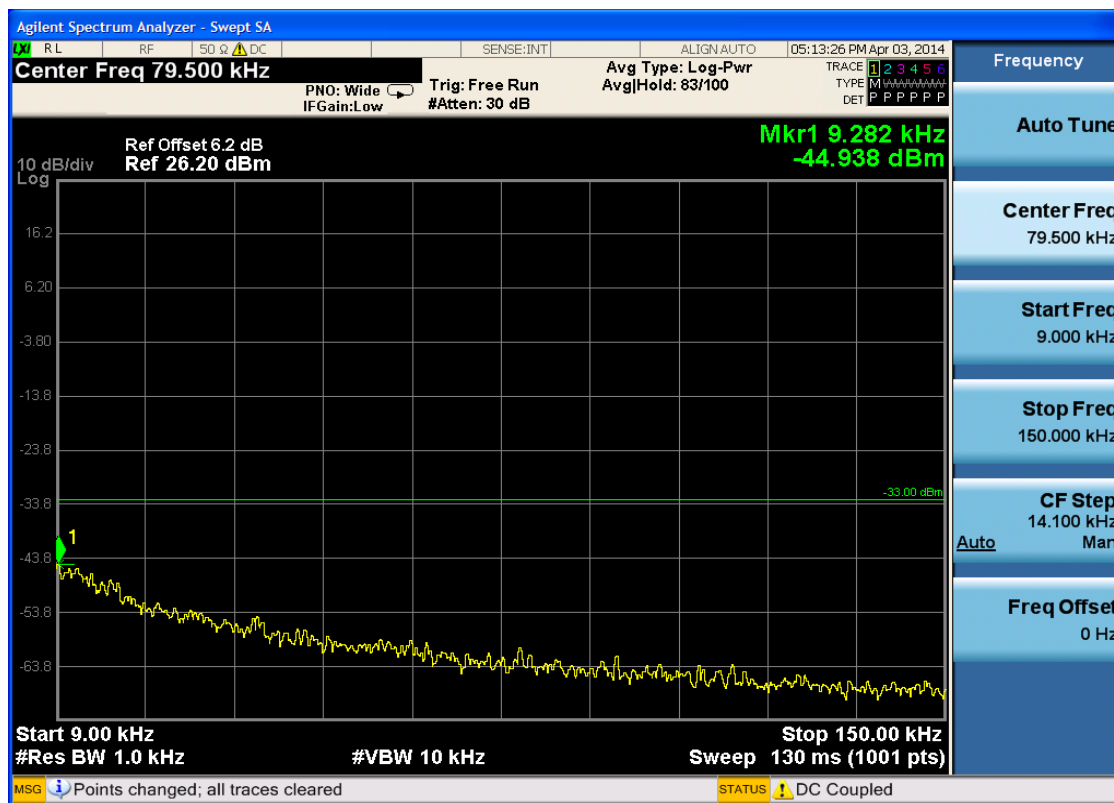


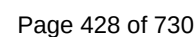


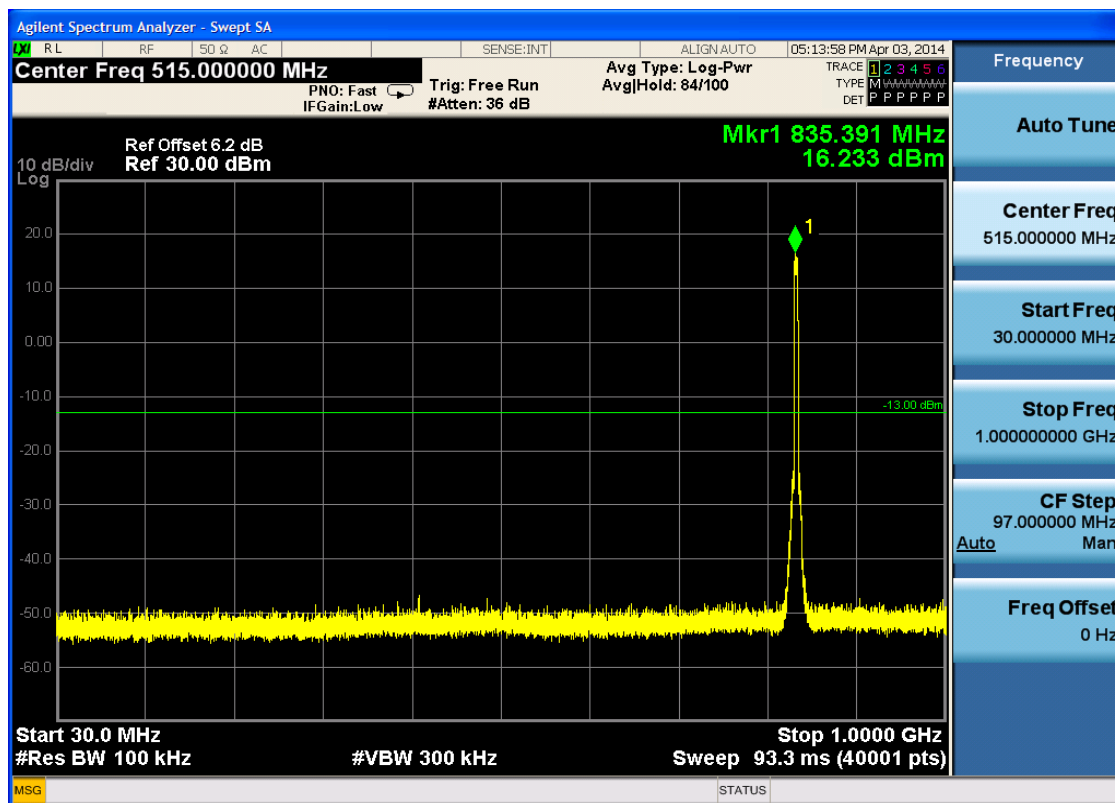


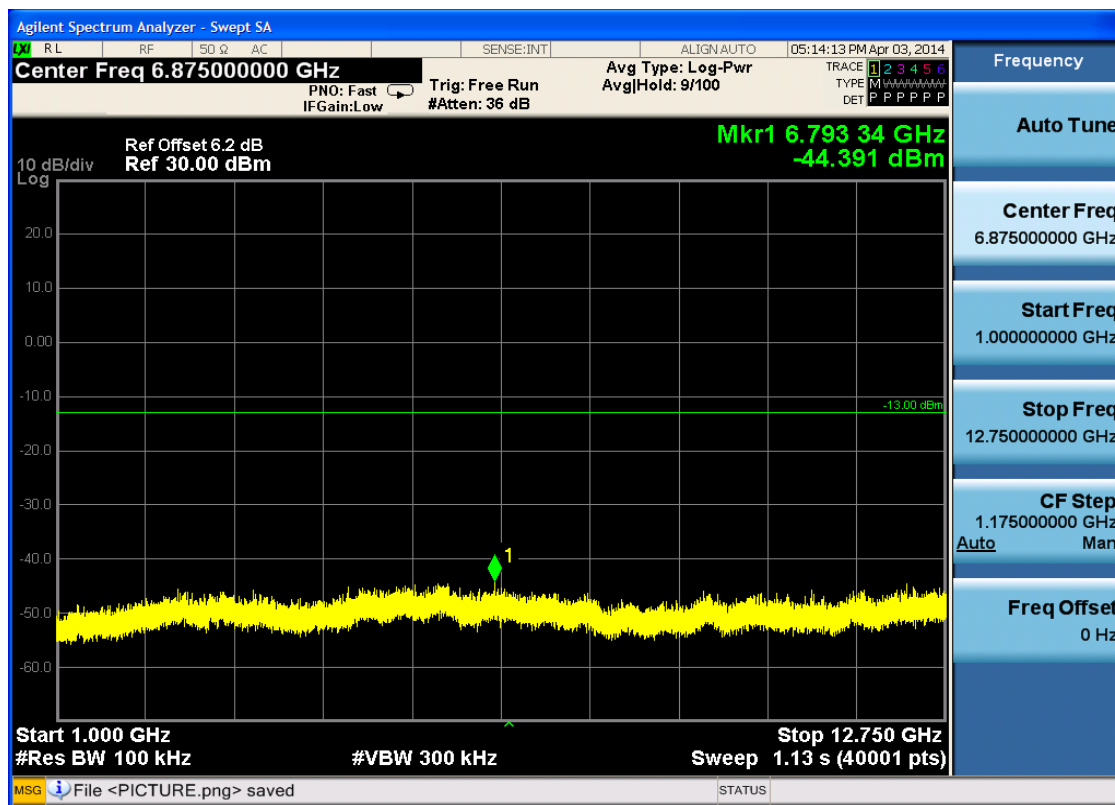


6.2.1.1.2 Test Channel = MCH



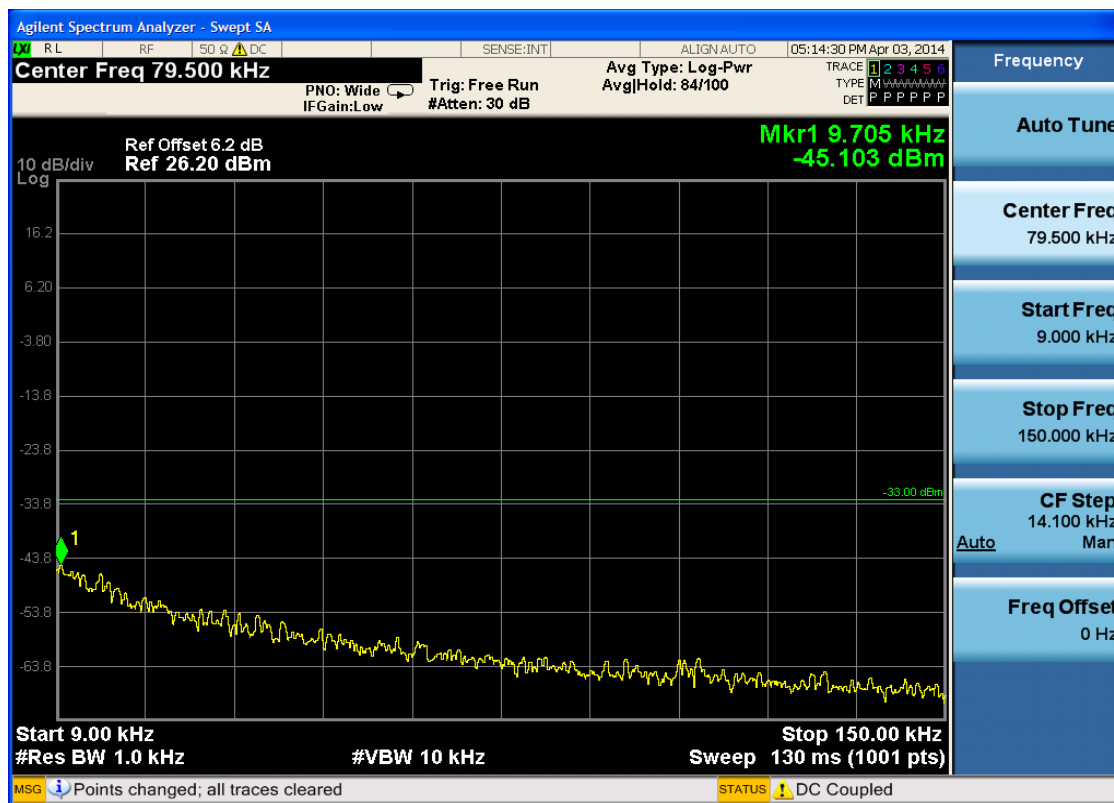


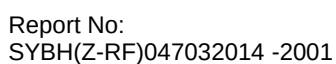


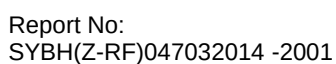


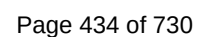
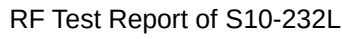


6.2.1.1.3 Test Channel = HCH





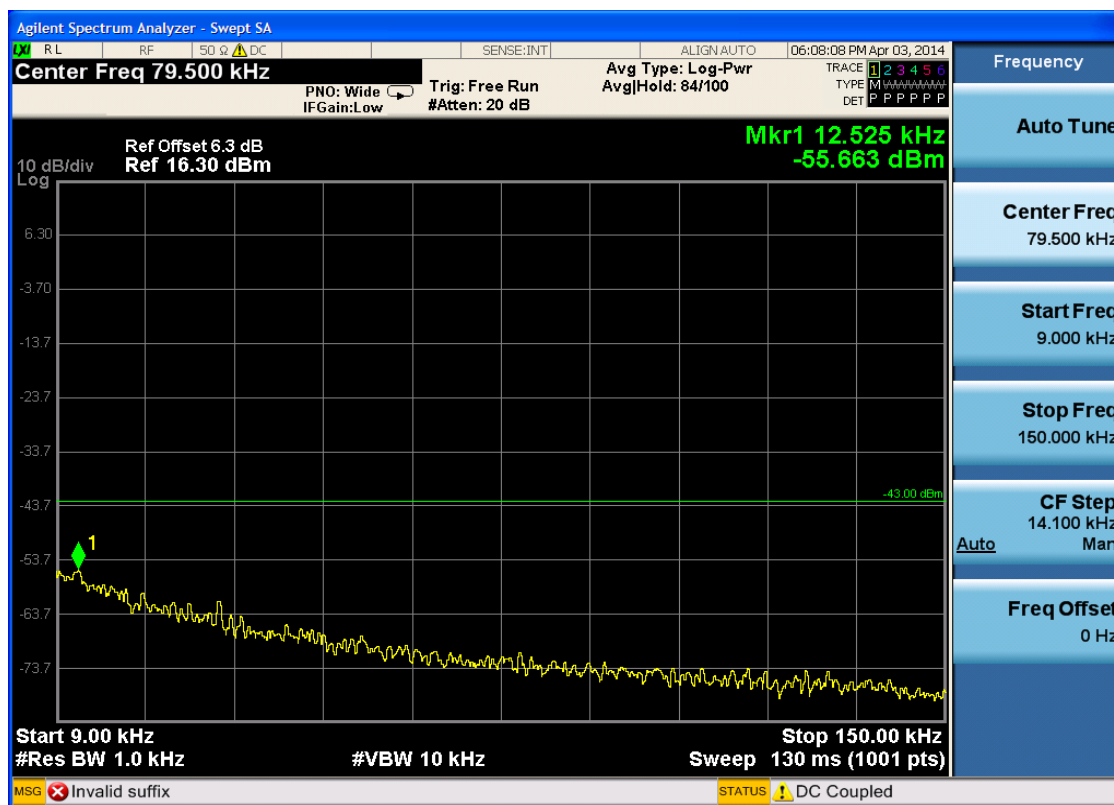


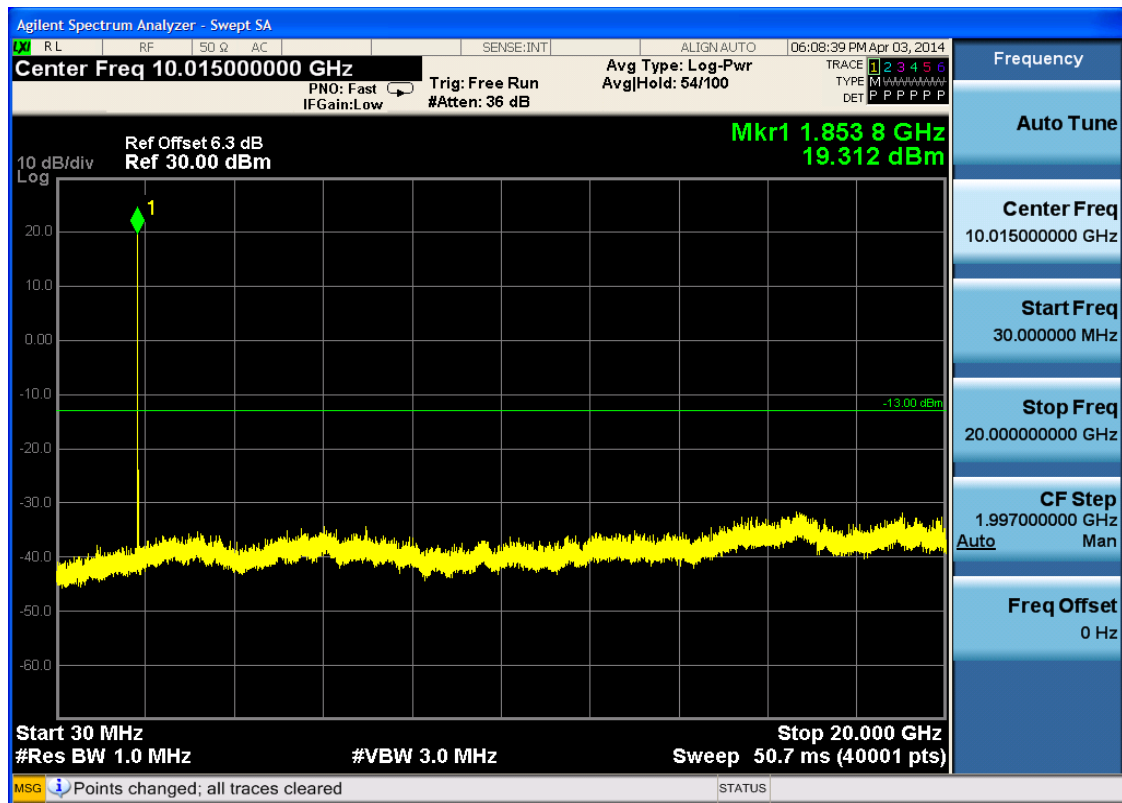


6.2.2 Test Band = WCDMA1900

6.2.2.1 Test Mode = UMTS/TM1

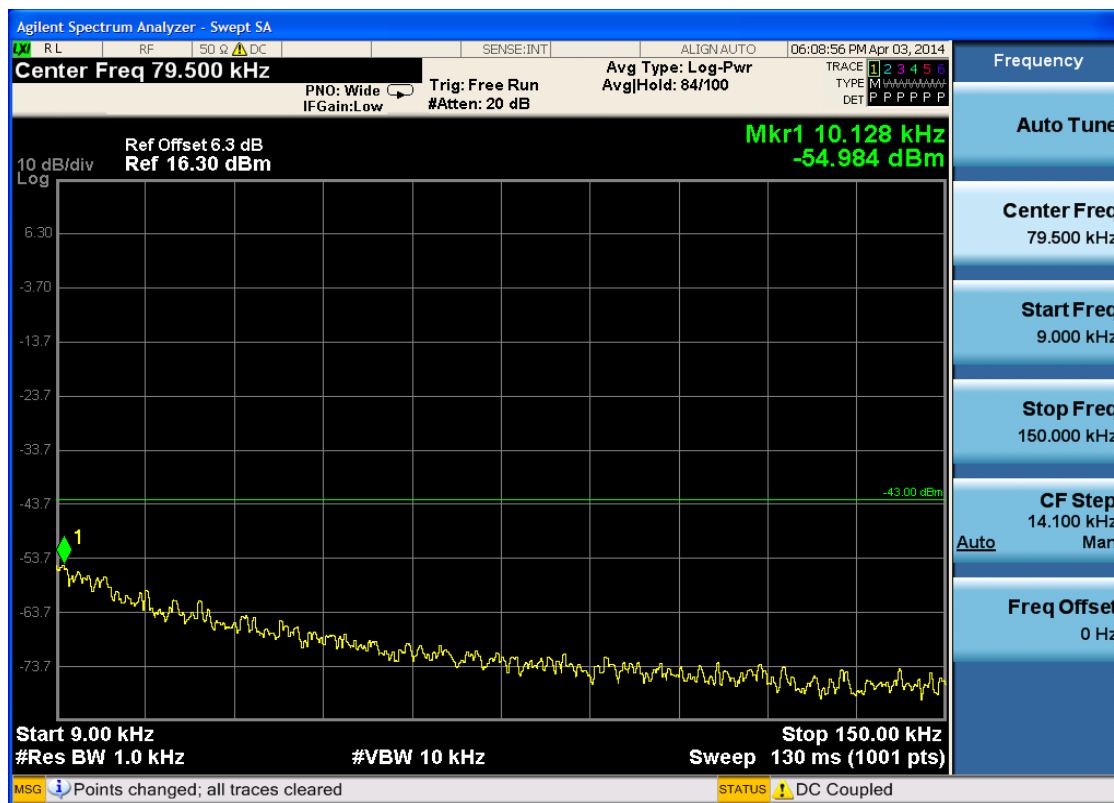
6.2.2.1.1 Test Channel = LCH

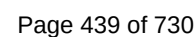


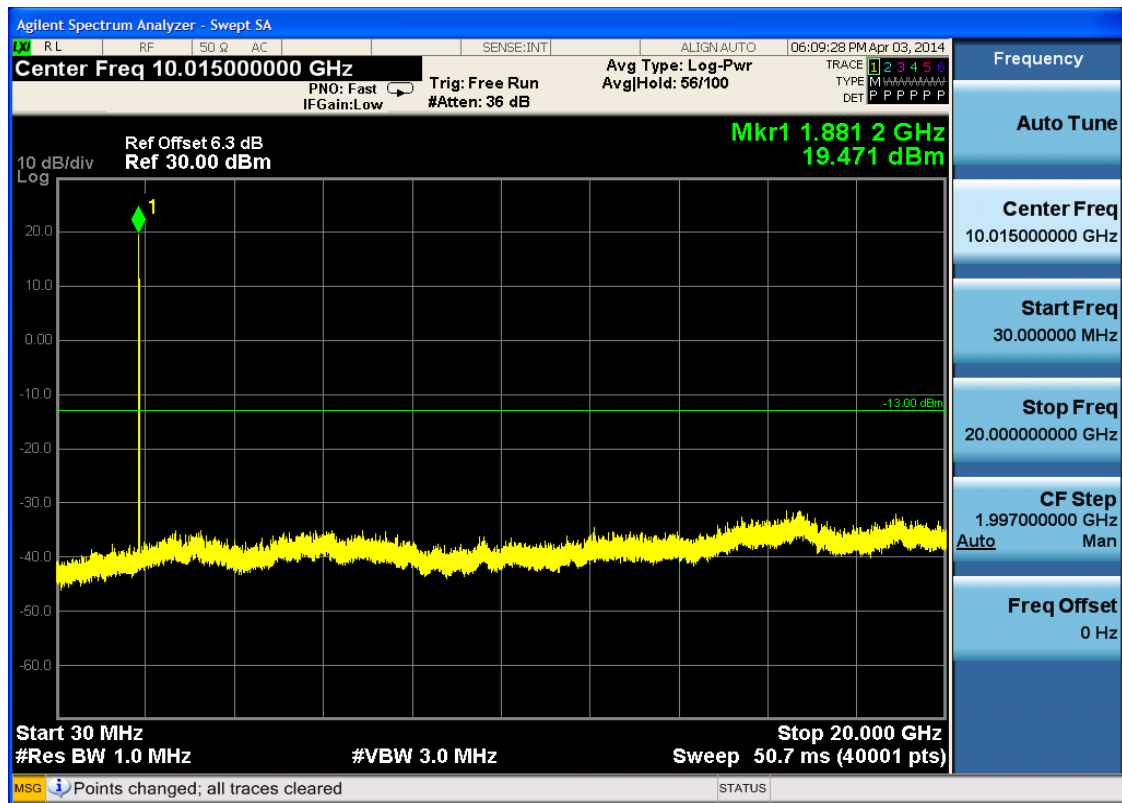




6.2.2.1.2 Test Channel = MCH

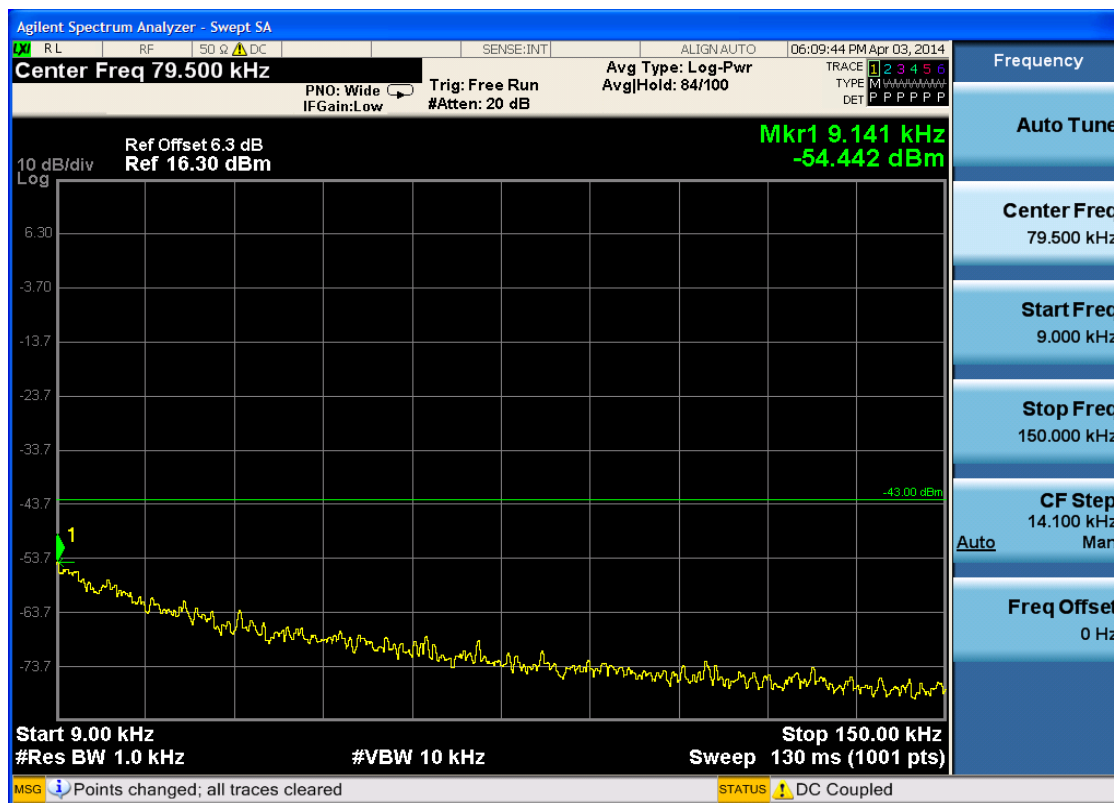




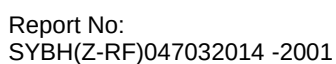




6.2.2.1.3 Test Channel = HCH



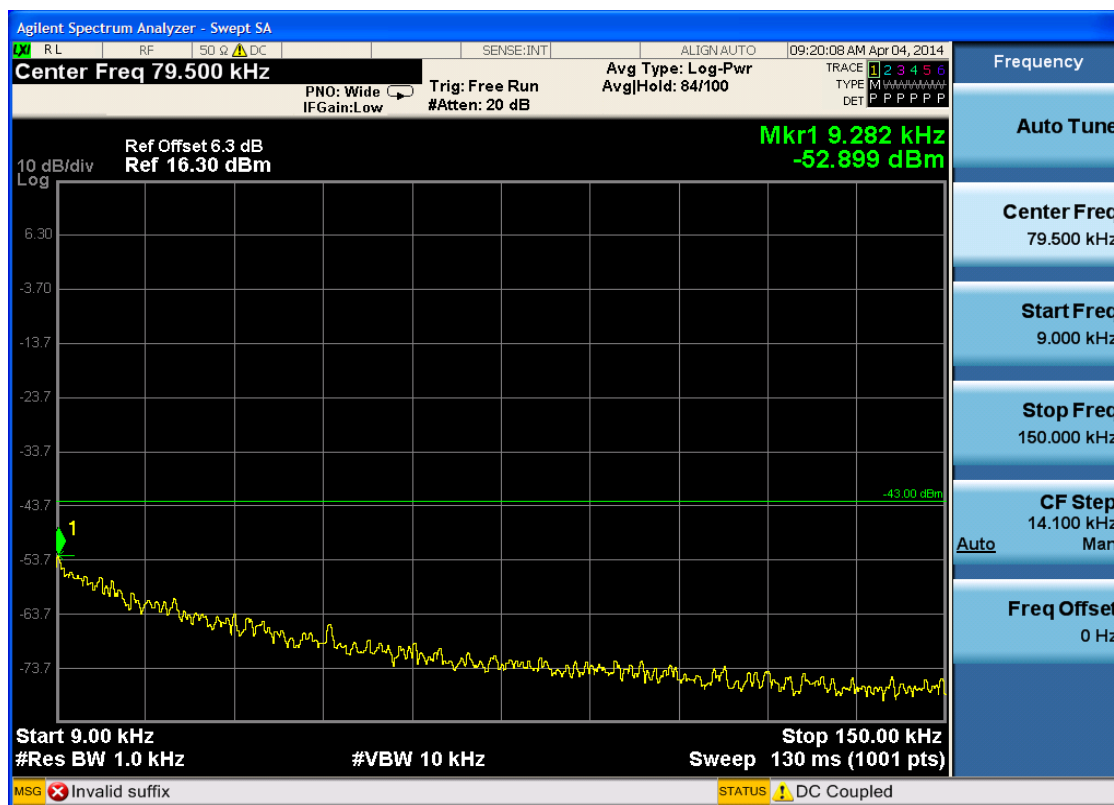


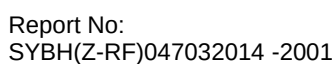


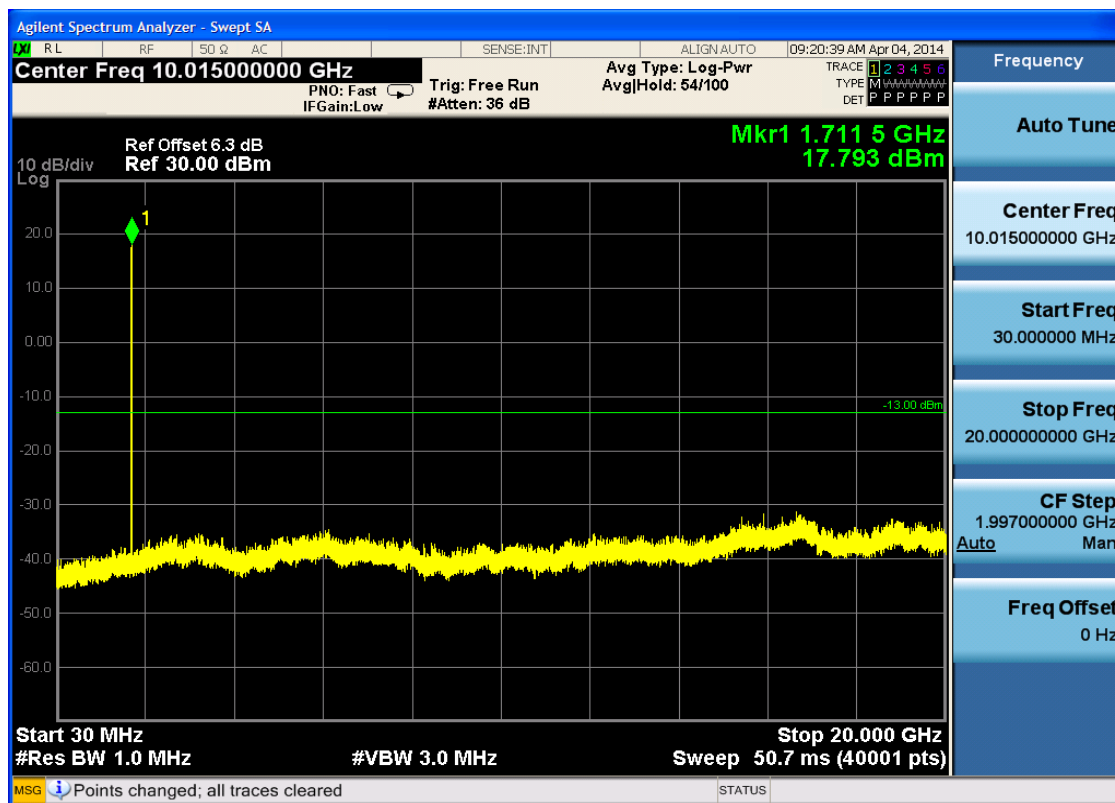
6.2.3 Test Band = WCDMA1700

6.2.3.1 Test Mode = UMTS/TM1

6.2.3.1.1 Test Channel = LCH







6.2.3.1.2 Test Channel = MCH

