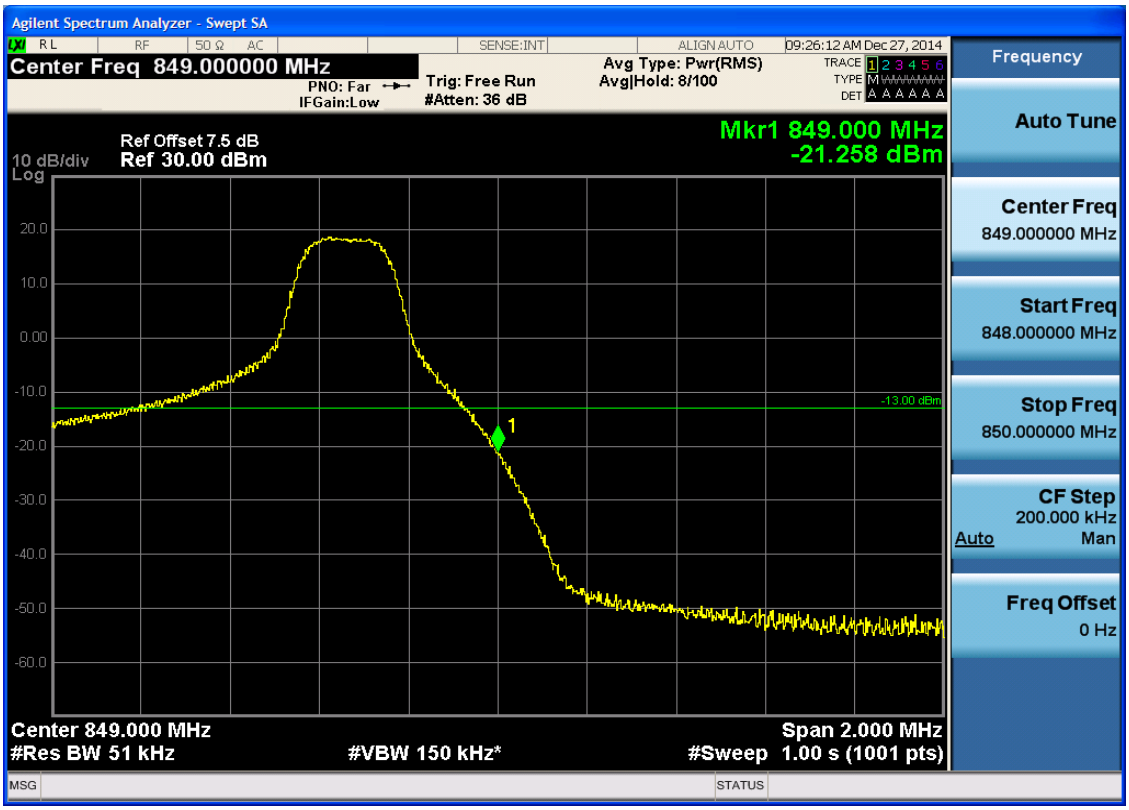
5.3.3.1.1.2.2 Test RB = RB1#24



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5.3.3.1.1.2.3 Test RB = RB12#6

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5.3.3.1.1.2.4 Test RB = RB25#0

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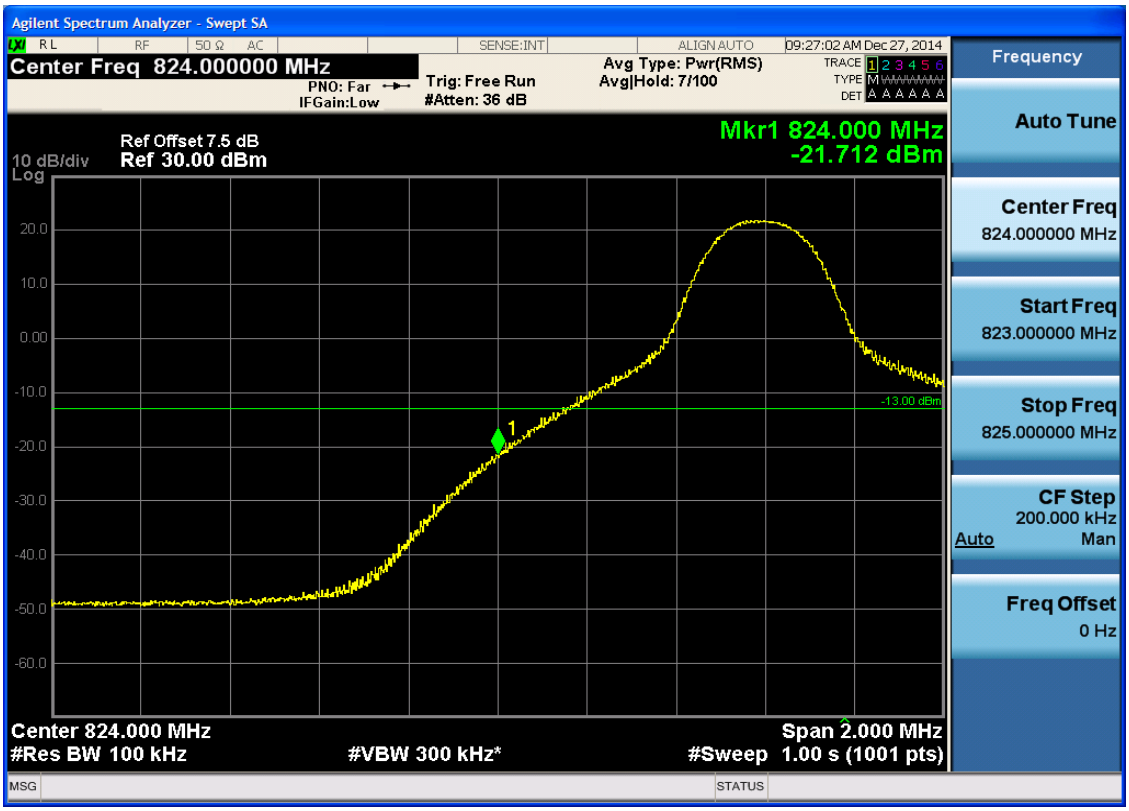
5.3.3.1.2 Test Bandwidth = 10

5.3.3.1.2.1 Test Channel = LCH

5.3.3.1.2.1.1 Test RB = RB1#0



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5.3.3.1.2.1.2 Test RB = RB1#49

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5.3.3.1.2.1.3 Test RB = RB25#13

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5.3.3.1.2.1.4 Test RB = RB50#0

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5.3.3.1.2.2 Test Channel = HCH

5.3.3.1.2.2.1 Test RB = RB1#0

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5.3.3.1.2.2.2 Test RB = RB1#49

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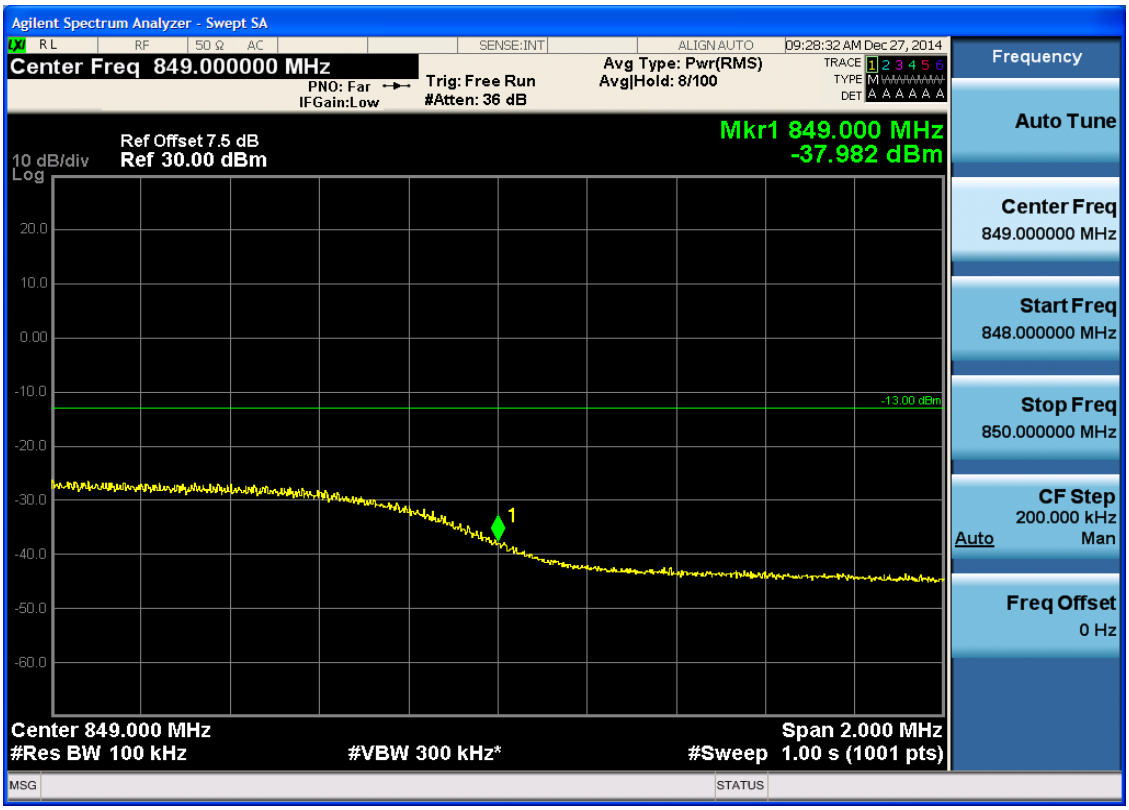
5.3.3.1.2.2.3 Test RB = RB25#13



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5.3.3.1.2.2.4 Test RB = RB50#0

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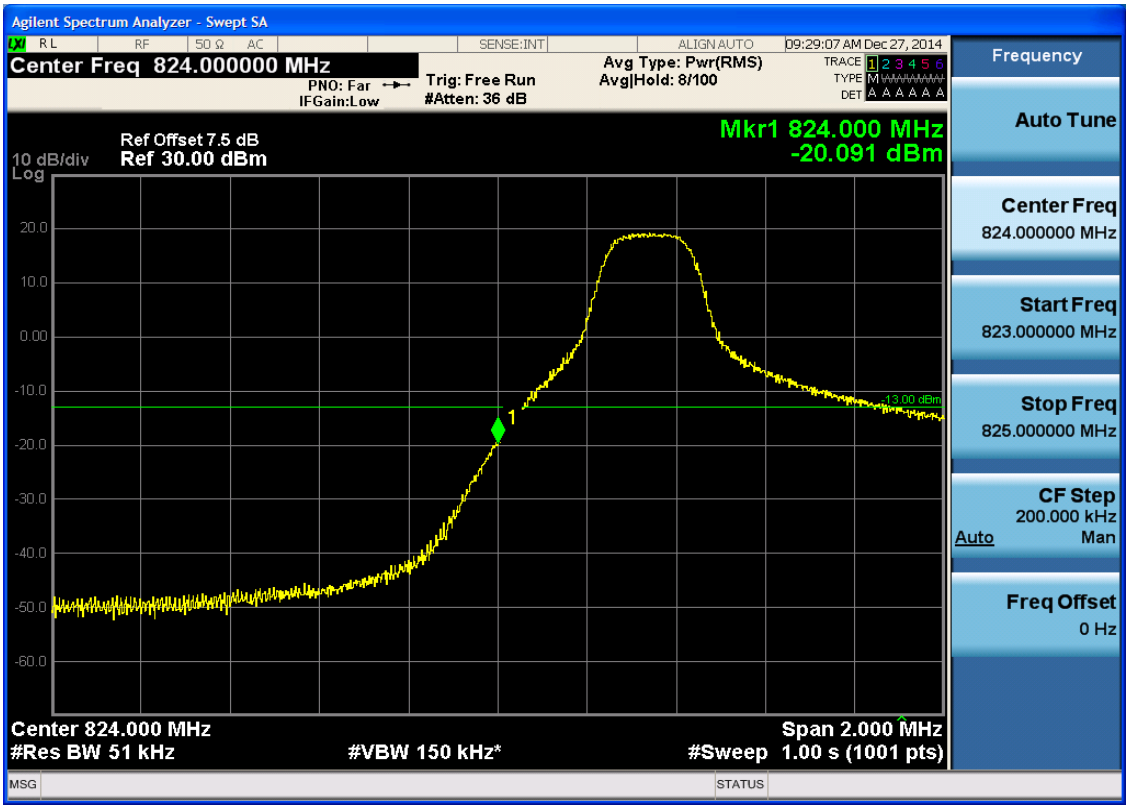
5.3.3.2 Test Mode = LTE/TM2

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



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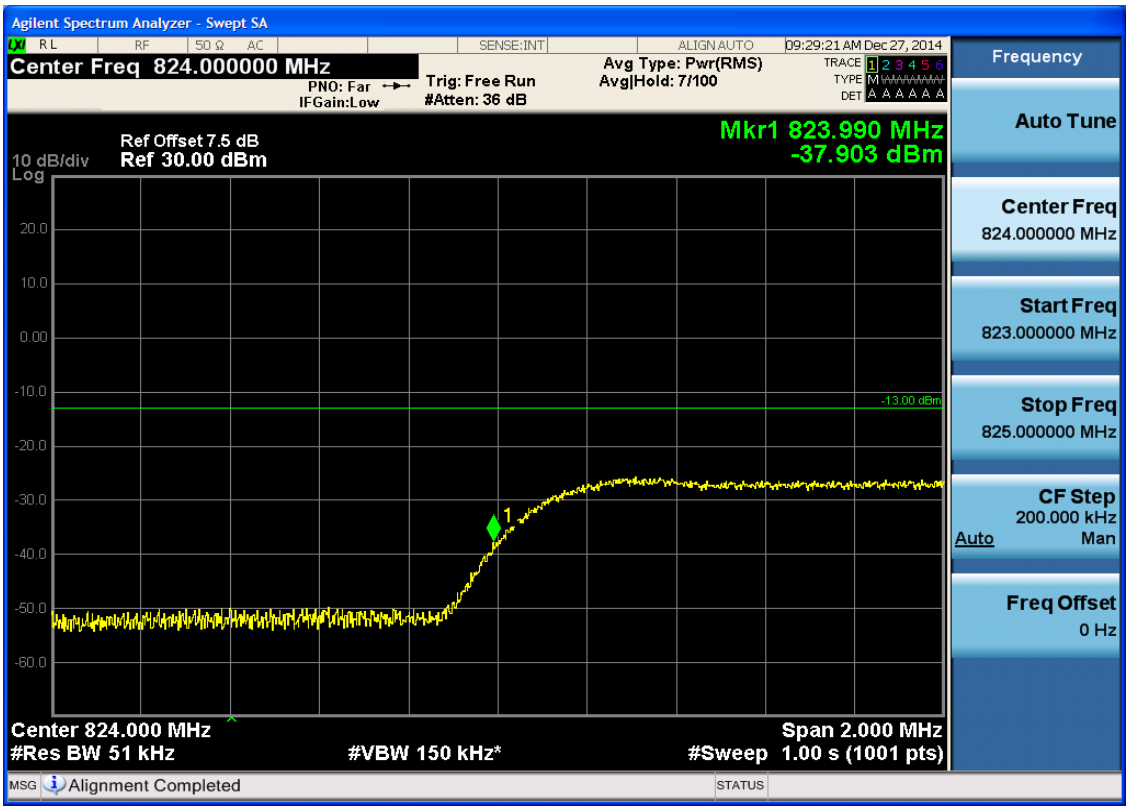
5.3.3.2.1.1.2 Test RB = RB1#24



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5.3.3.2.1.1.3 Test RB = RB12#6

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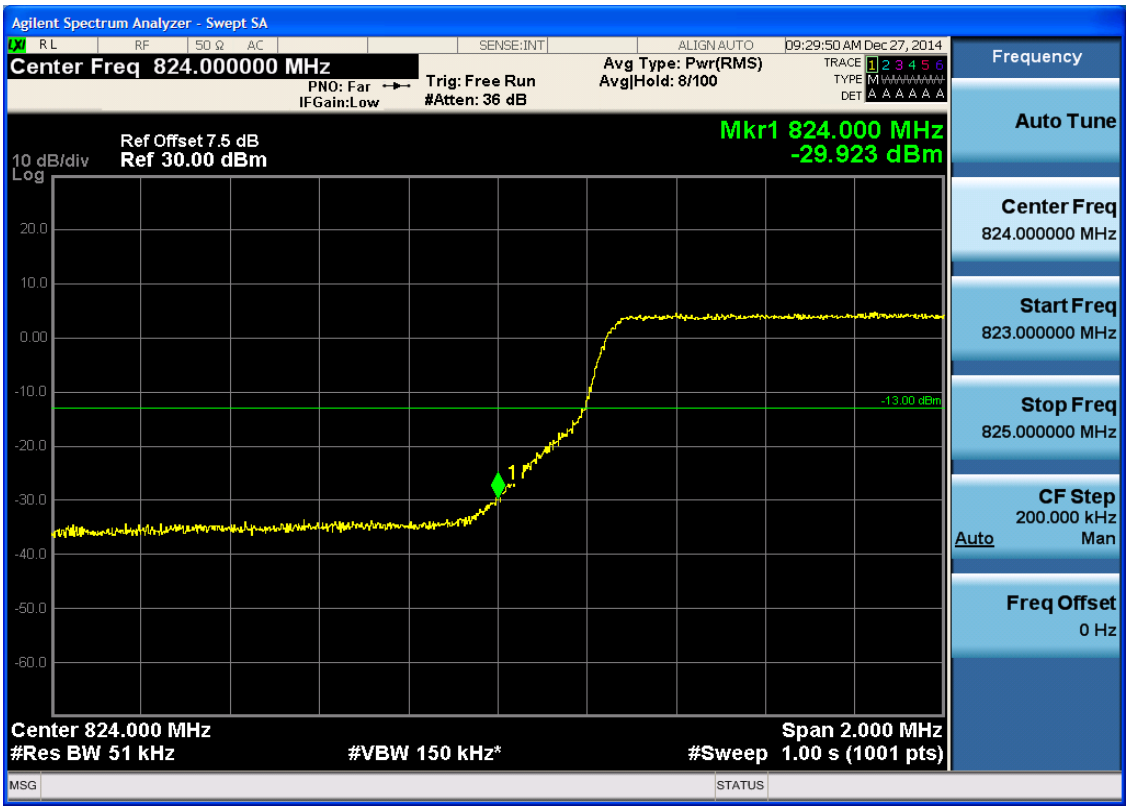
5.3.3.2.1.1.4 Test RB = RB25#0



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5.3.3.2.1.2 Test Channel = HCH

5.3.3.2.1.2.1 Test RB = RB1#0

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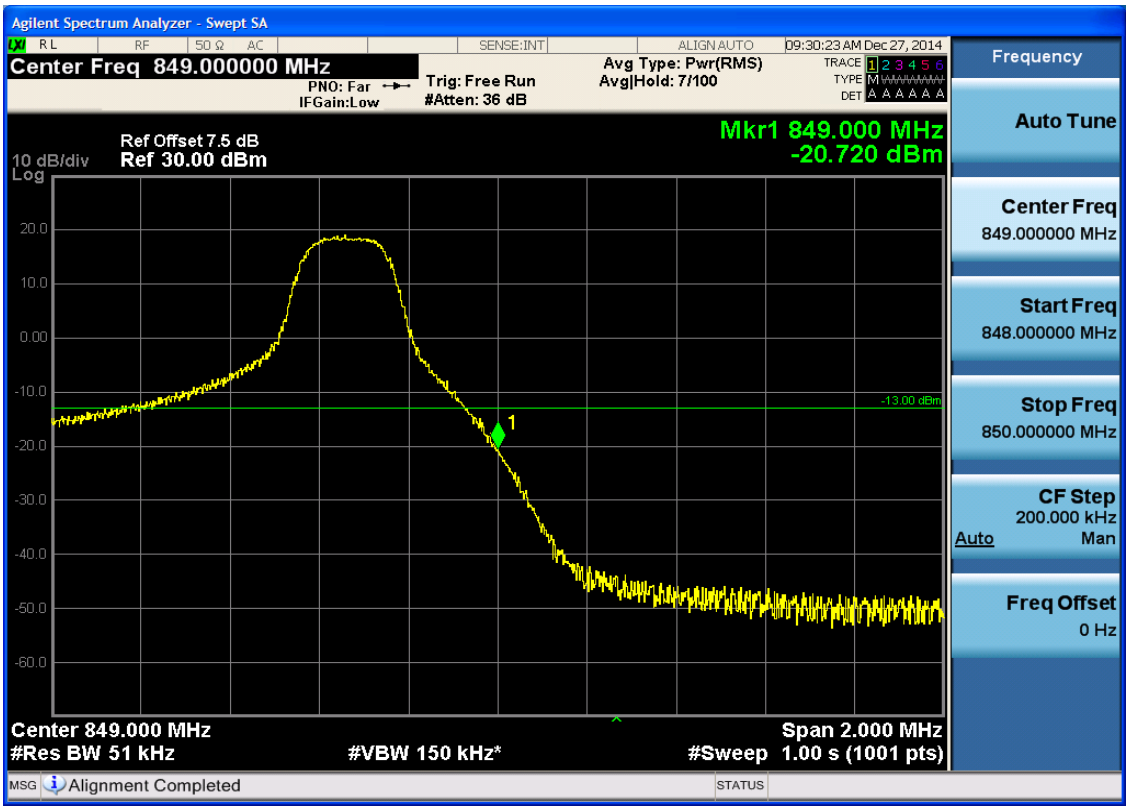
5.3.3.2.1.2.2 Test RB = RB1#24



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5.3.3.2.1.2.3 Test RB = RB12#6

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5.3.3.2.1.2.4 Test RB = RB25#0

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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

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5.3.3.2.2.1.2 Test RB = RB1#49

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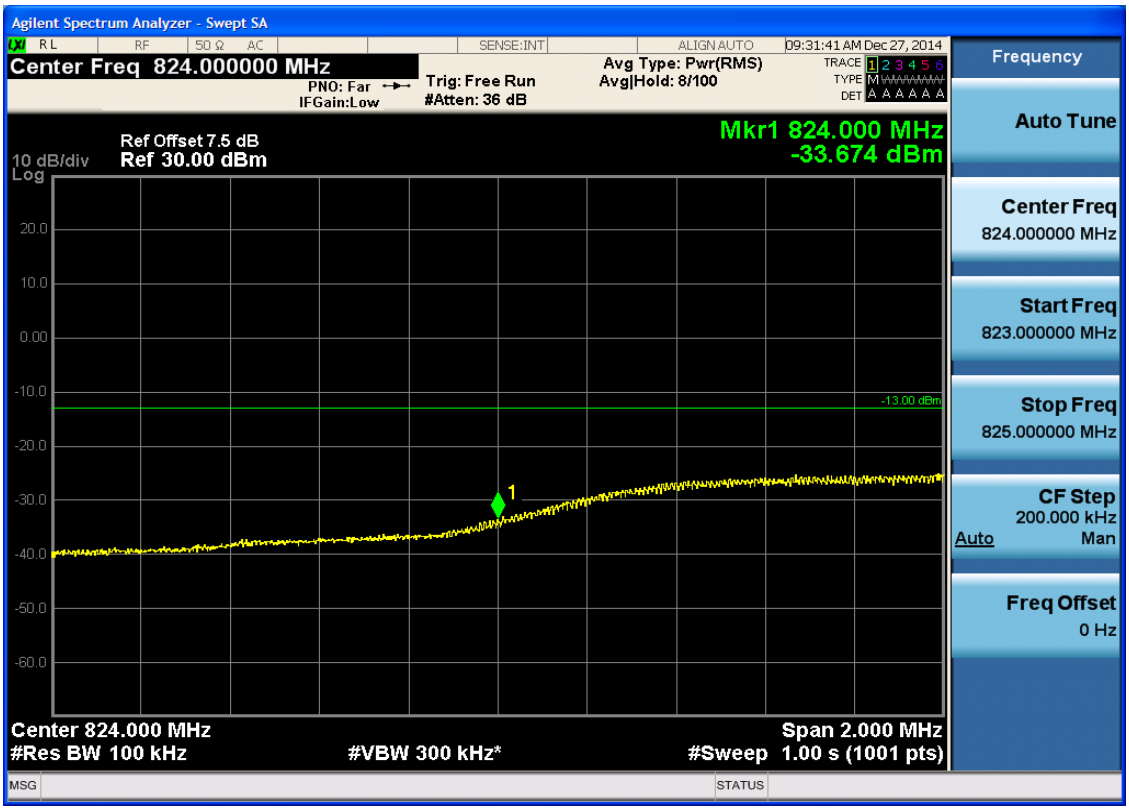
5.3.3.2.2.1.3 Test RB = RB25#13



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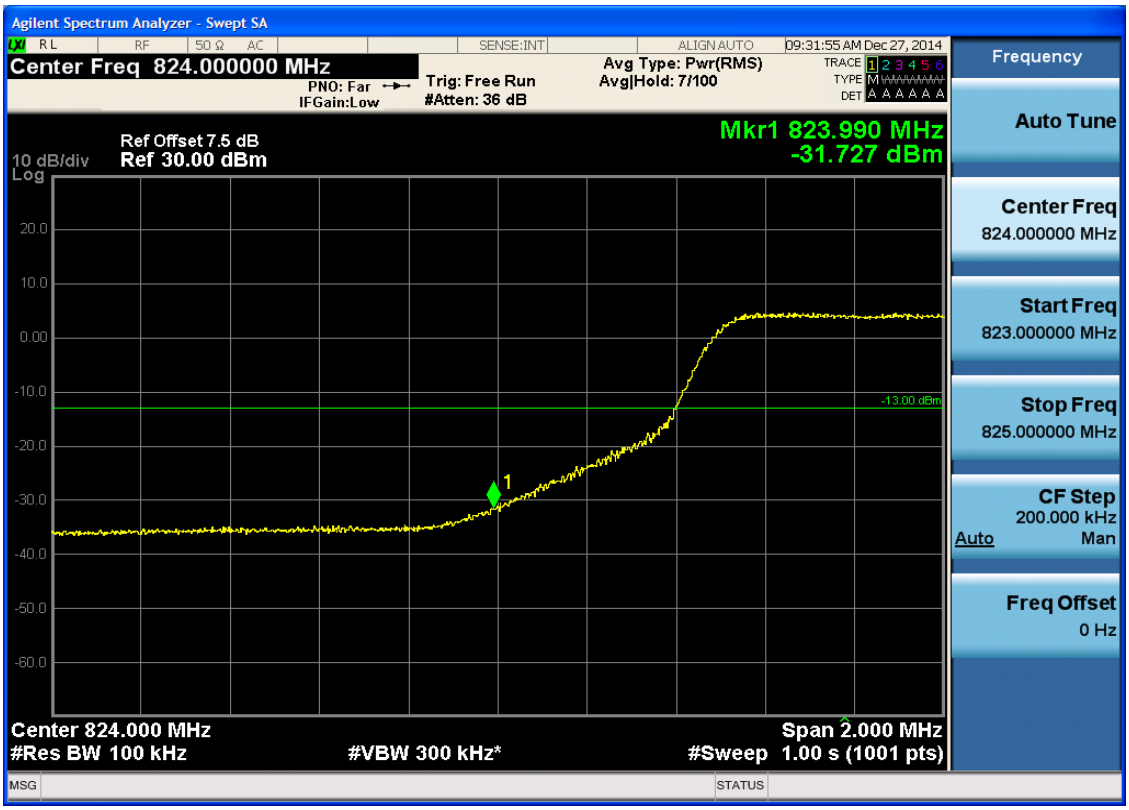
5.3.3.2.2.1.4 Test RB = RB50#0



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5.3.3.2.2.2 Test Channel = HCH

5.3.3.2.2.2.1 Test RB = RB1#0

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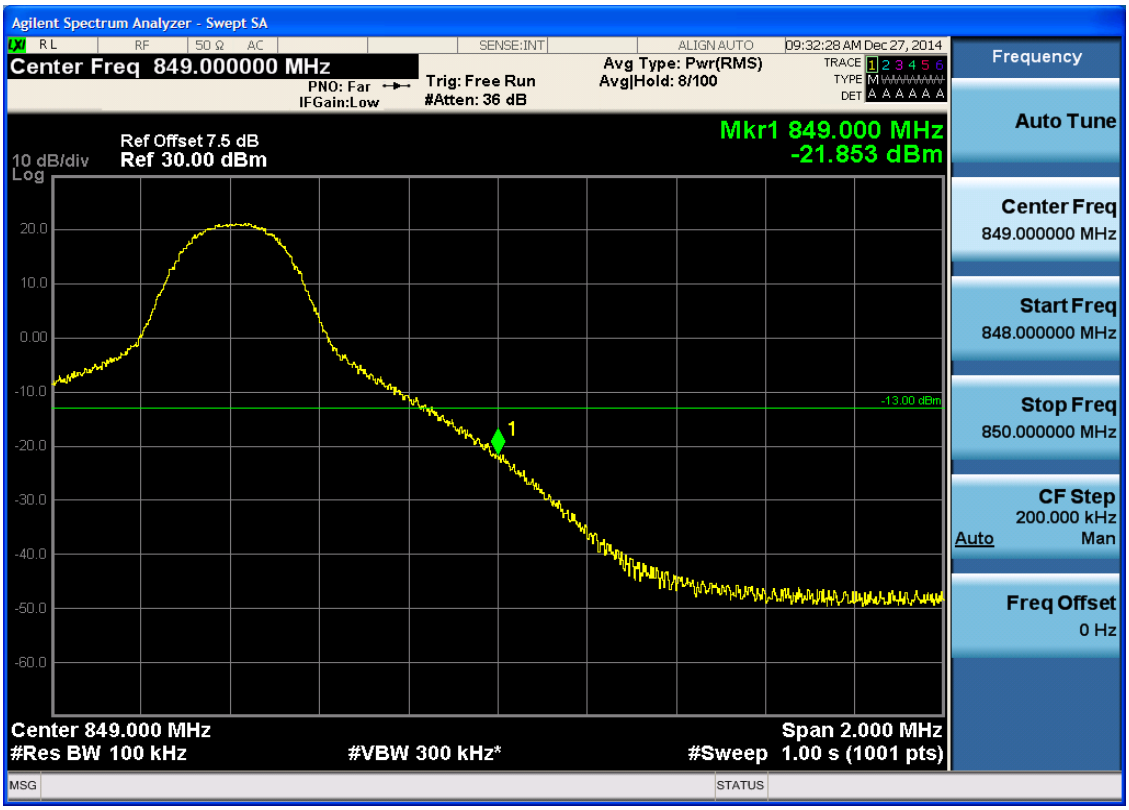
5.3.3.2.2.2 Test RB = RB1#49



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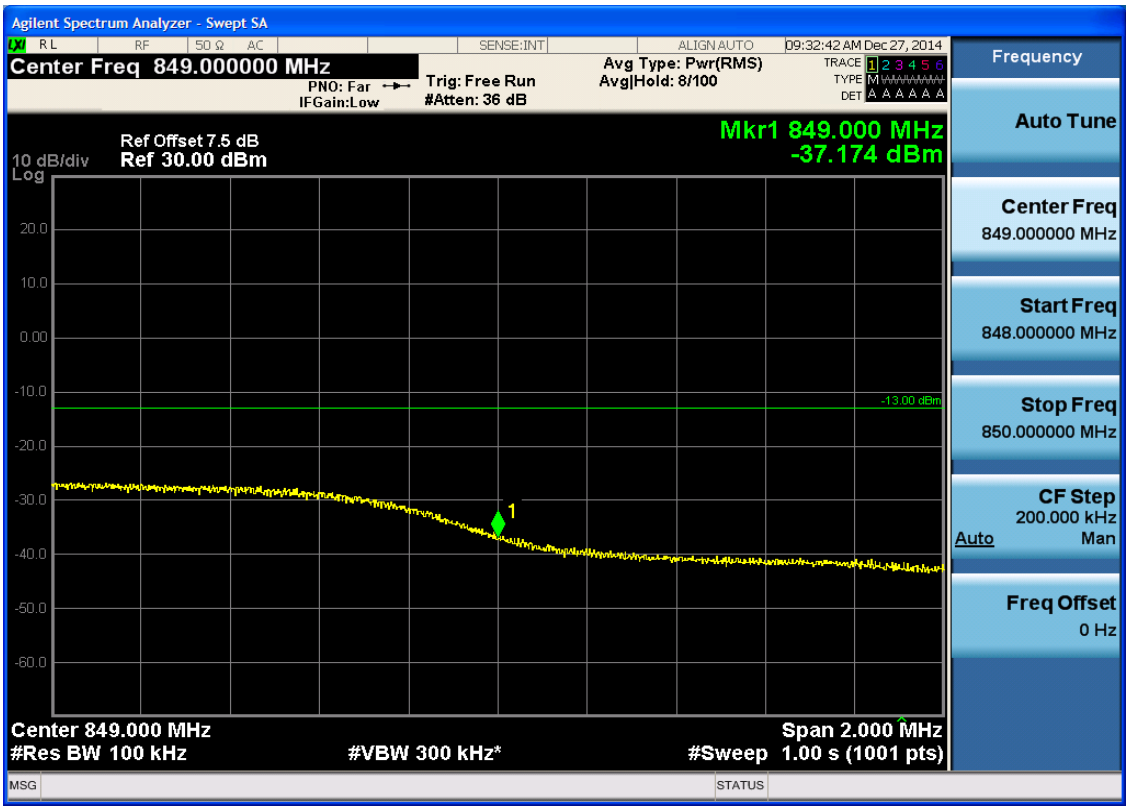
5.3.3.2.2.2.3 Test RB = RB25#13



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5.3.3.2.2.2.4 Test RB = RB50#0

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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.

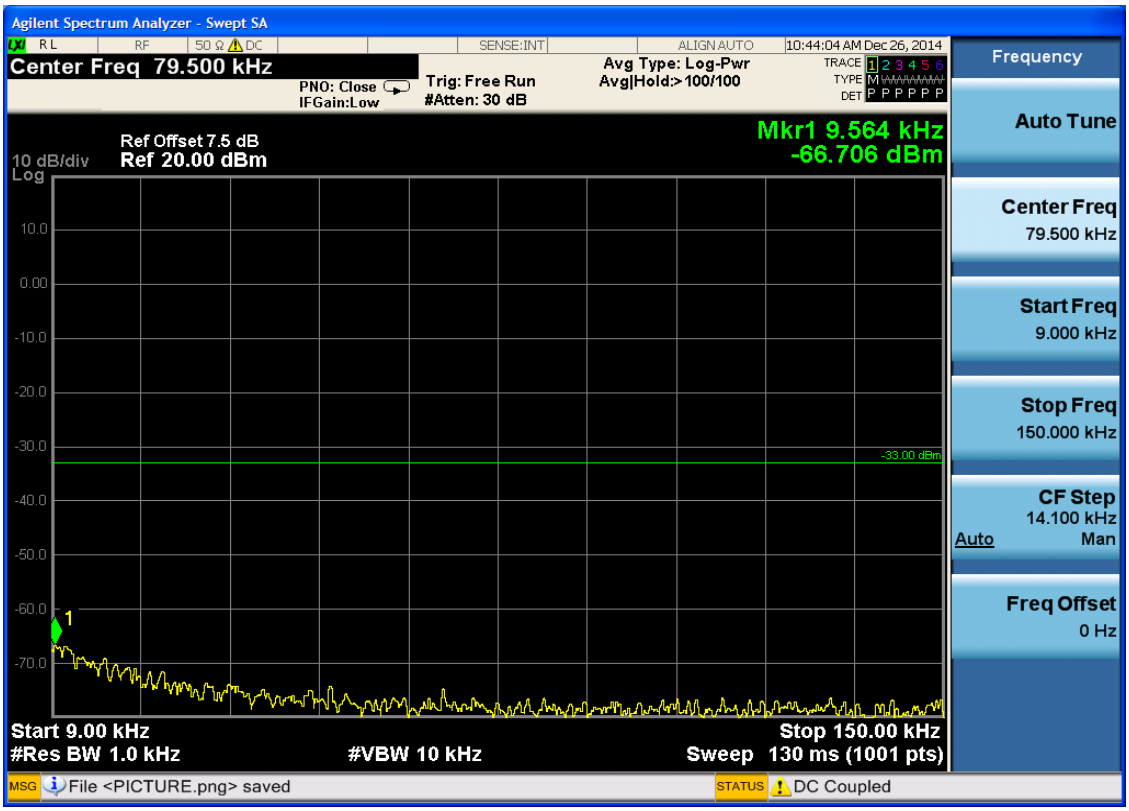
Part I - Test Plots

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



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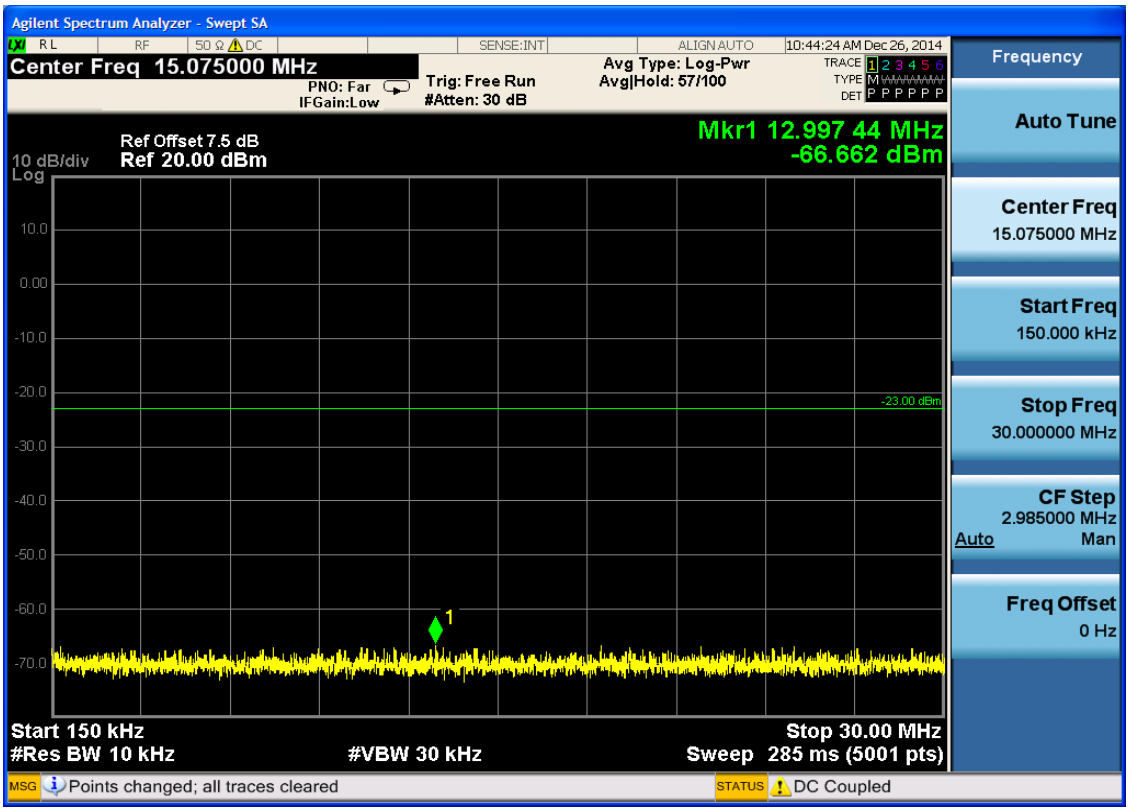

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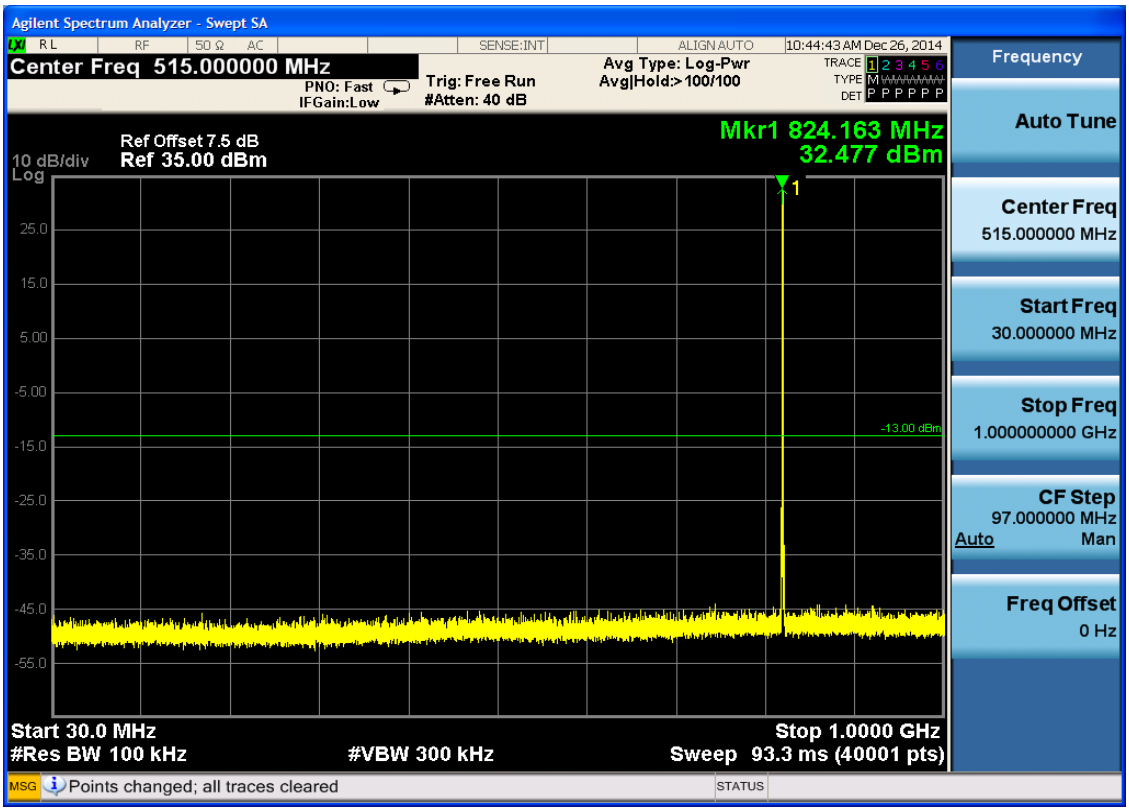

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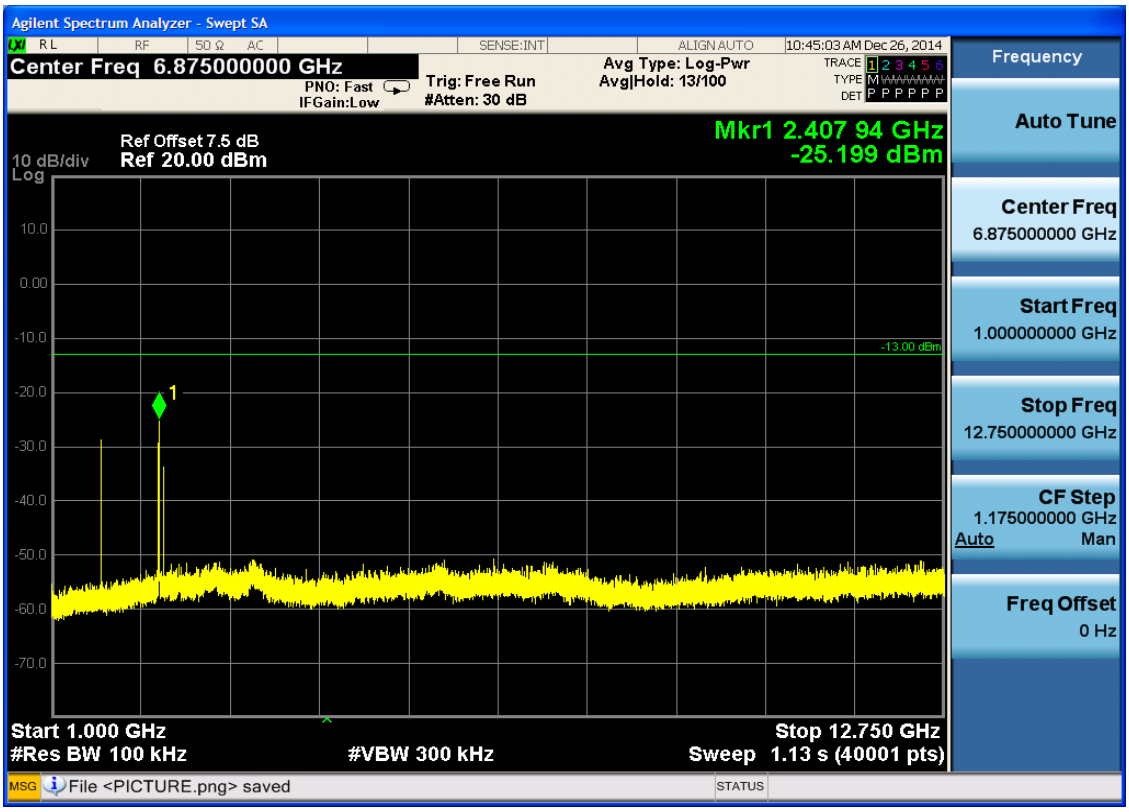

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6.1.1.1.2 Test Channel = MCH

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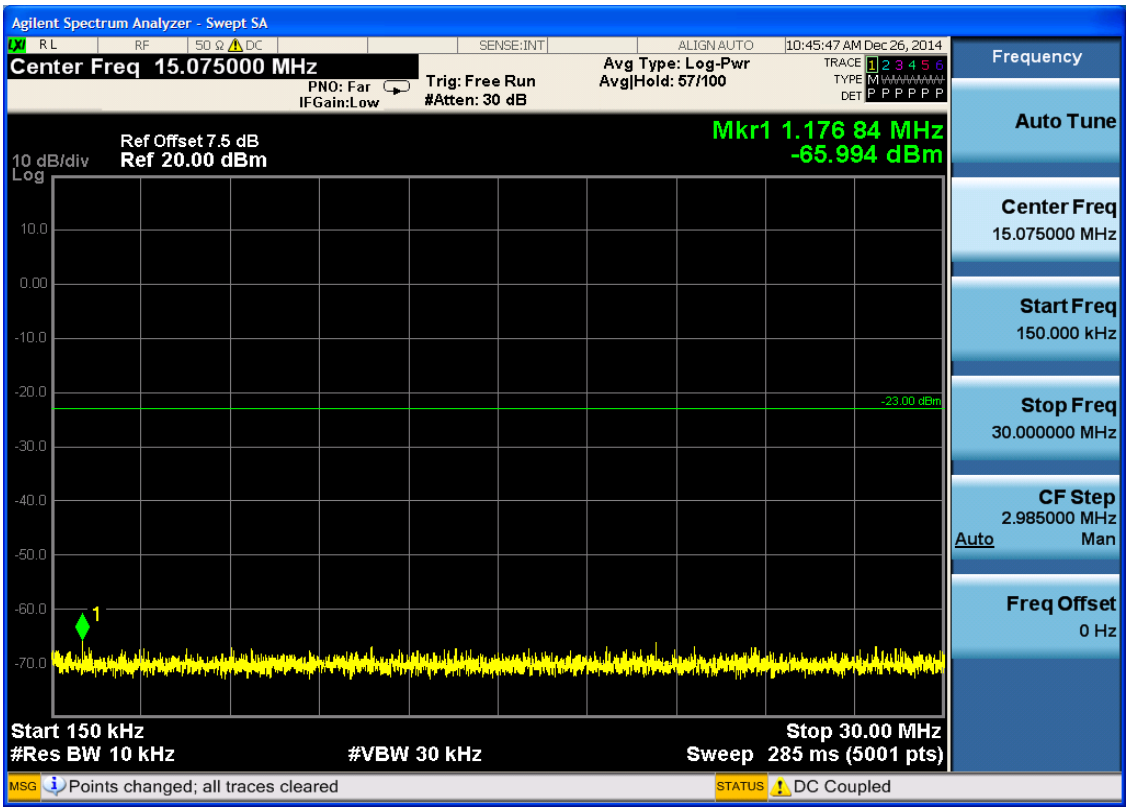

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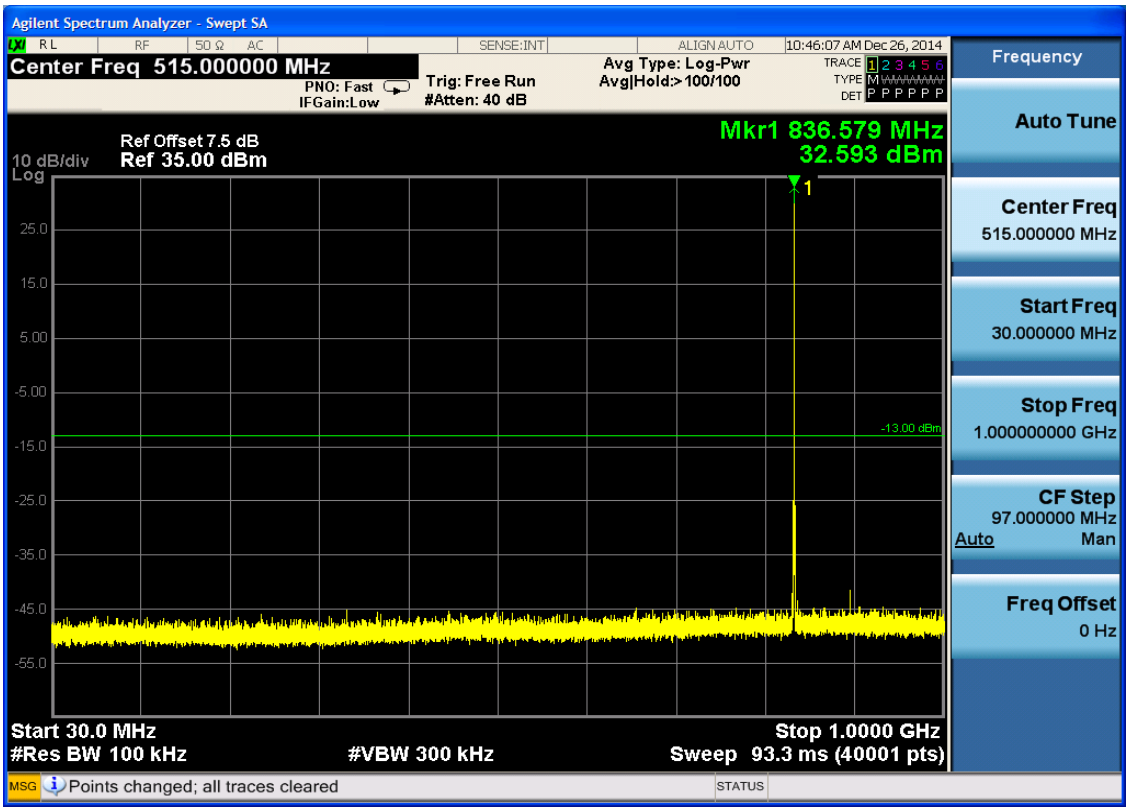
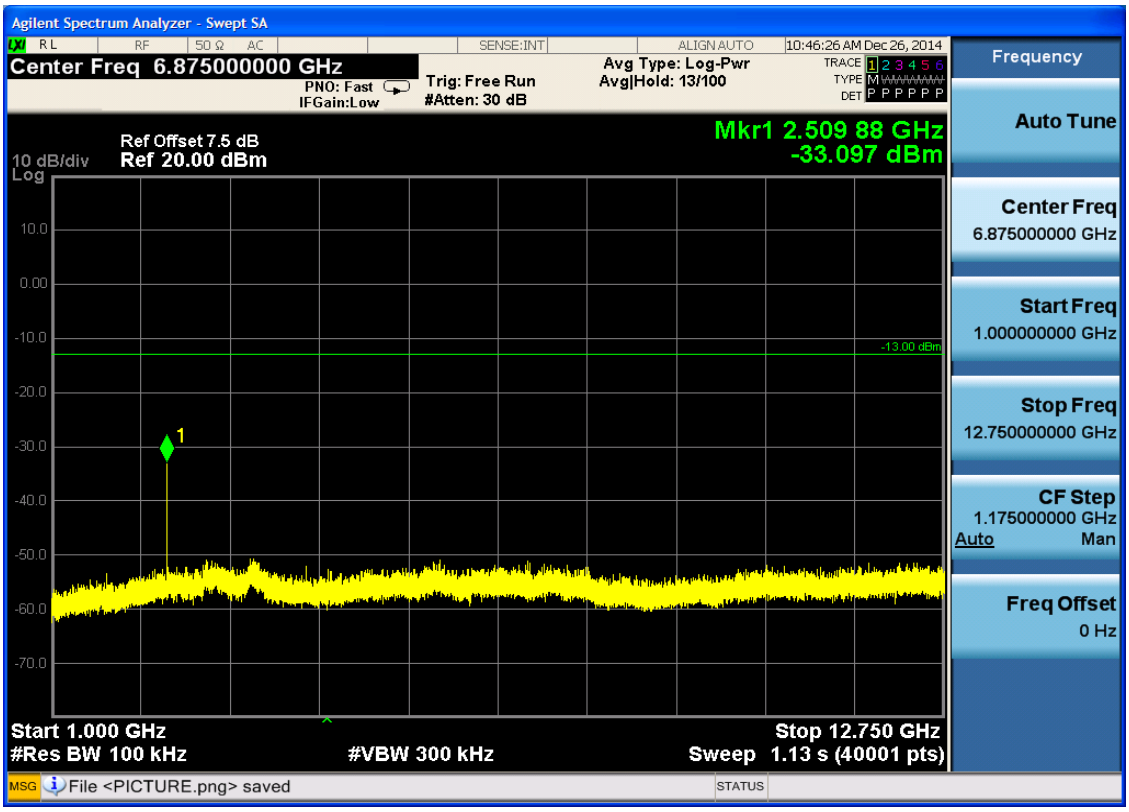

Agilent Spectrum Analyzer - Swept SA
Center Freq 515.000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
10:46:07 AM Dec 26, 2014
Ref Offset 7.5 dB
10 dB/div
Ref 35.00 dBm
Log
Mkr1 836.579 MHz
32.593 dBm
-13.00 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 93.3 ms (40001 pts)
Points changed; all traces cleared
Frequency
Auto Tune
Center Freq
515.000000 MHz
Start Freq
30.000000 MHz
Stop Freq
1.000000000 GHz
CF Step
97.000000 MHz
Auto
Man
Freq Offset
0 Hz



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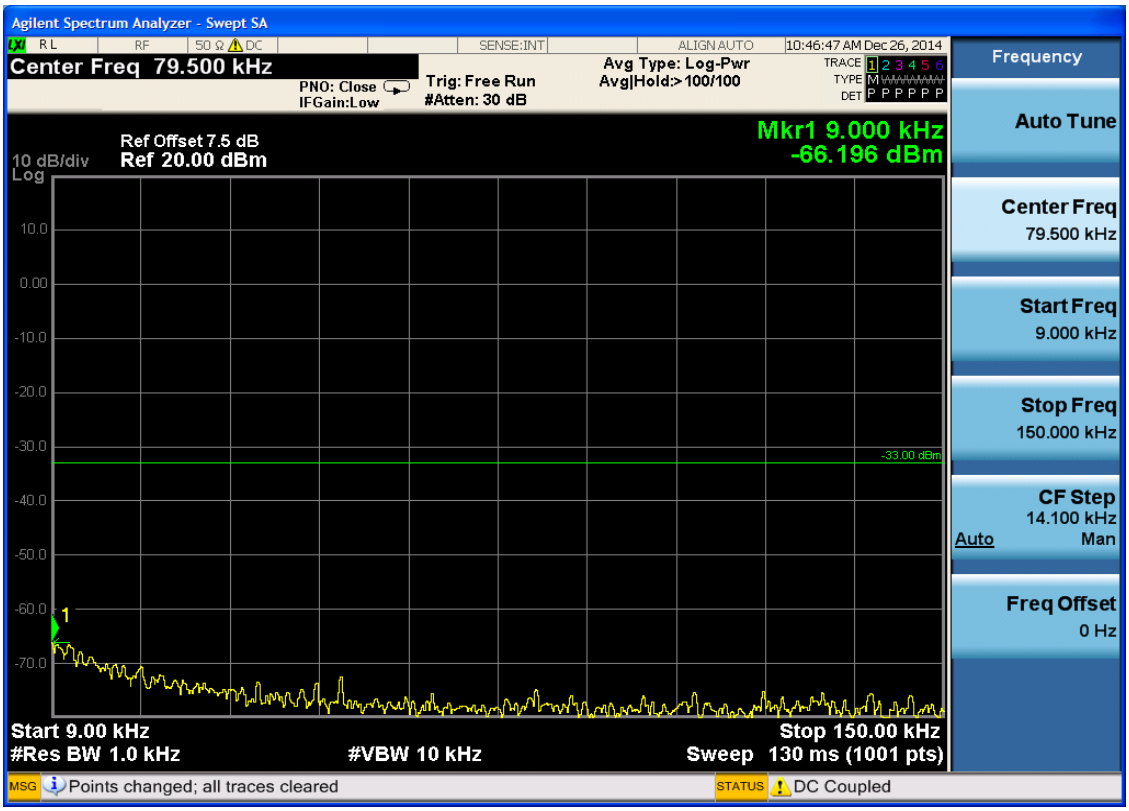
6.1.1.1.3 Test Channel = HCH



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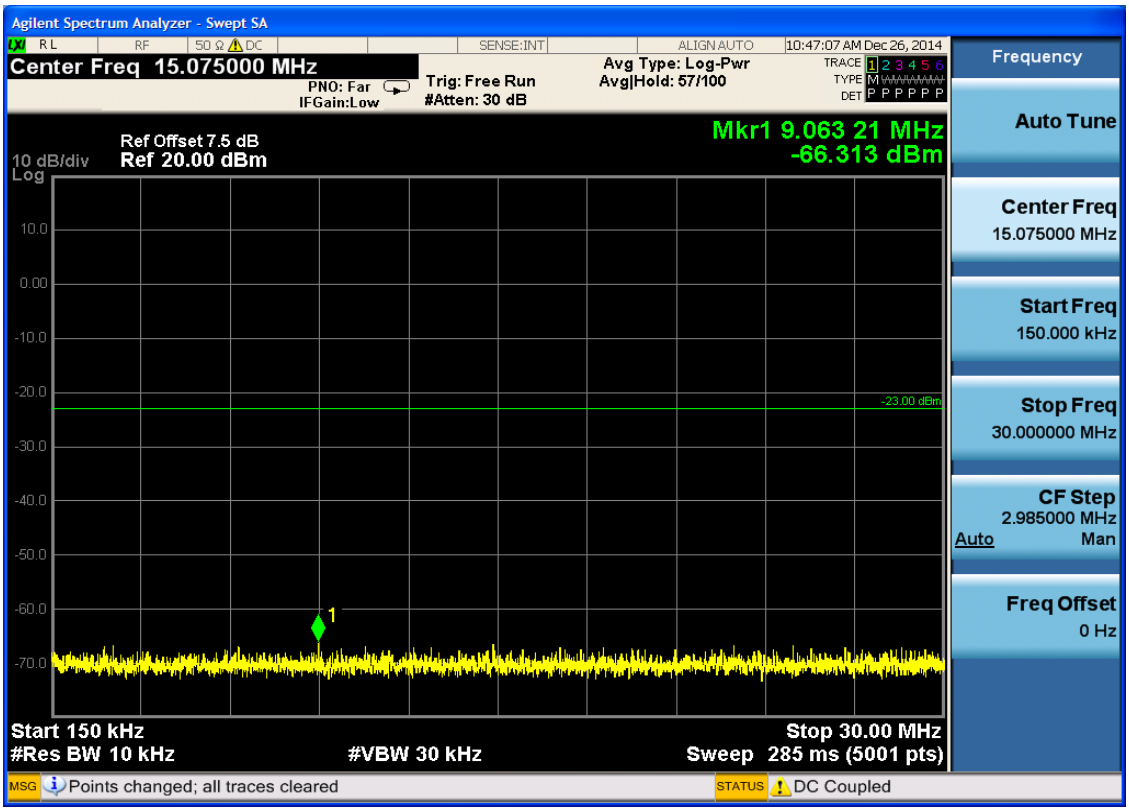
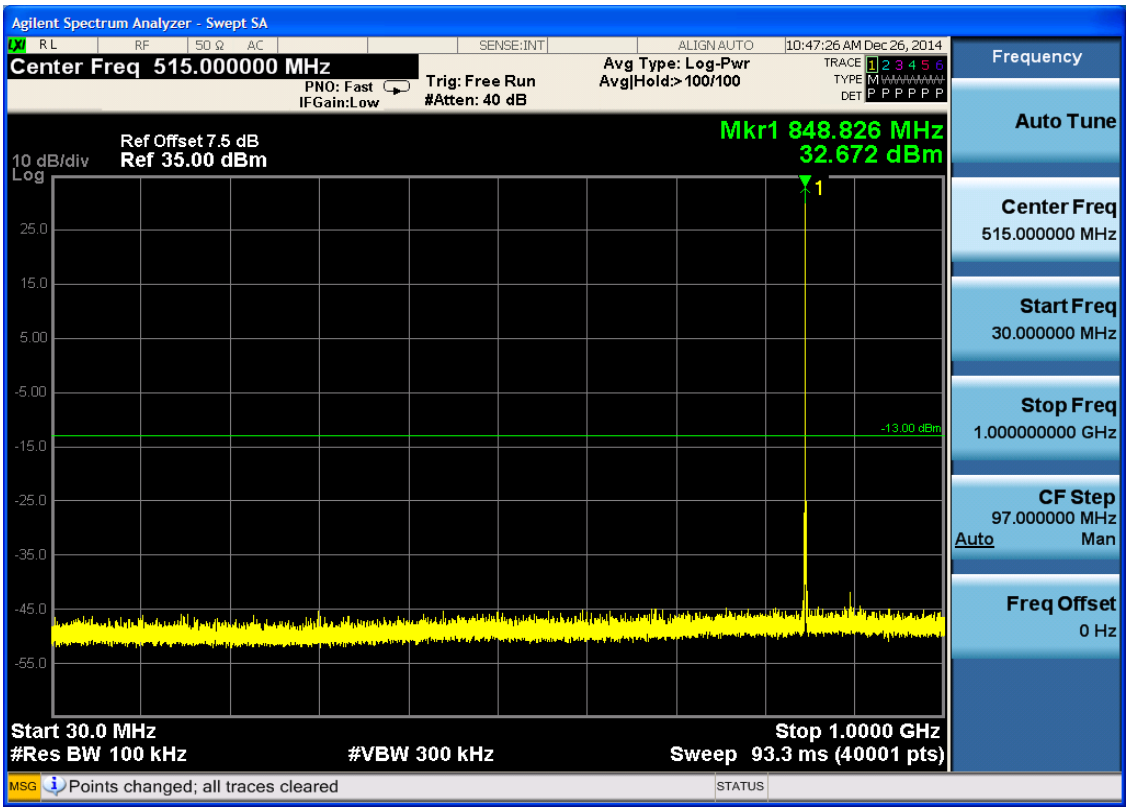

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Far
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 57/100
10:47:07 AM Dec 26, 2014
Ref Offset 7.5 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 9.063 21 MHz
-66.313 dBm
-23.00 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285 ms (5001 pts)
Points changed; all traces cleared
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz



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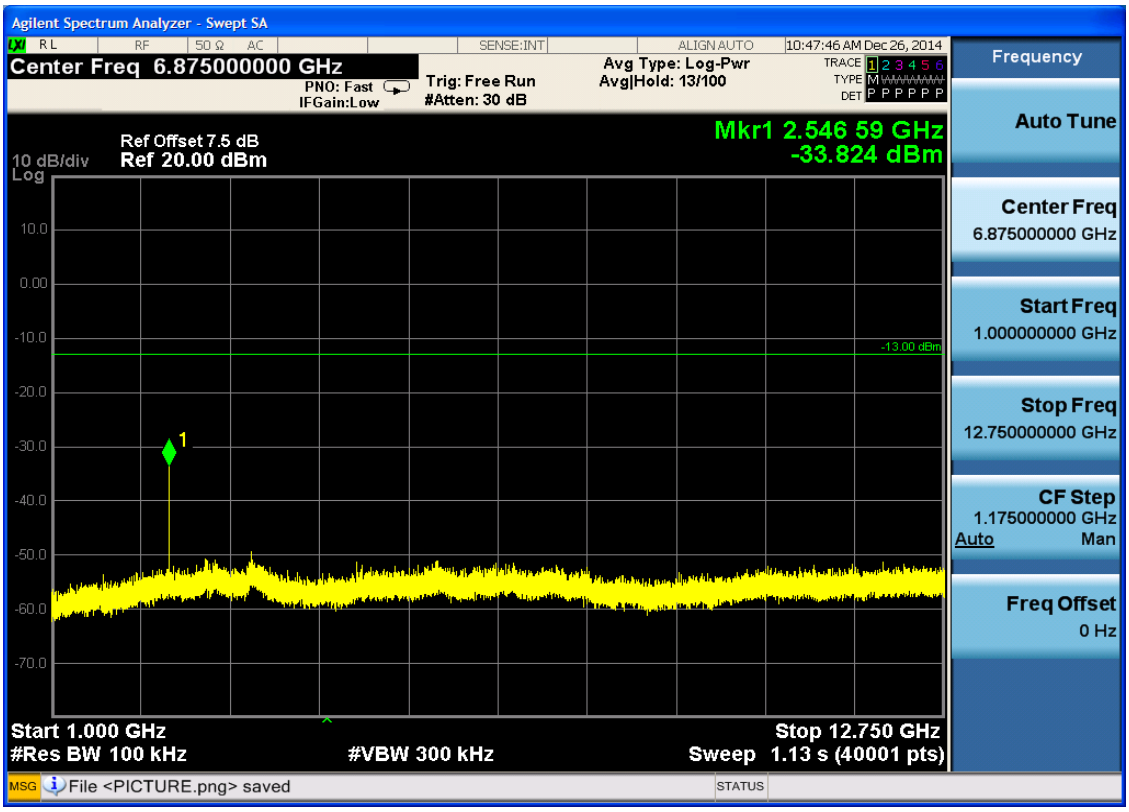

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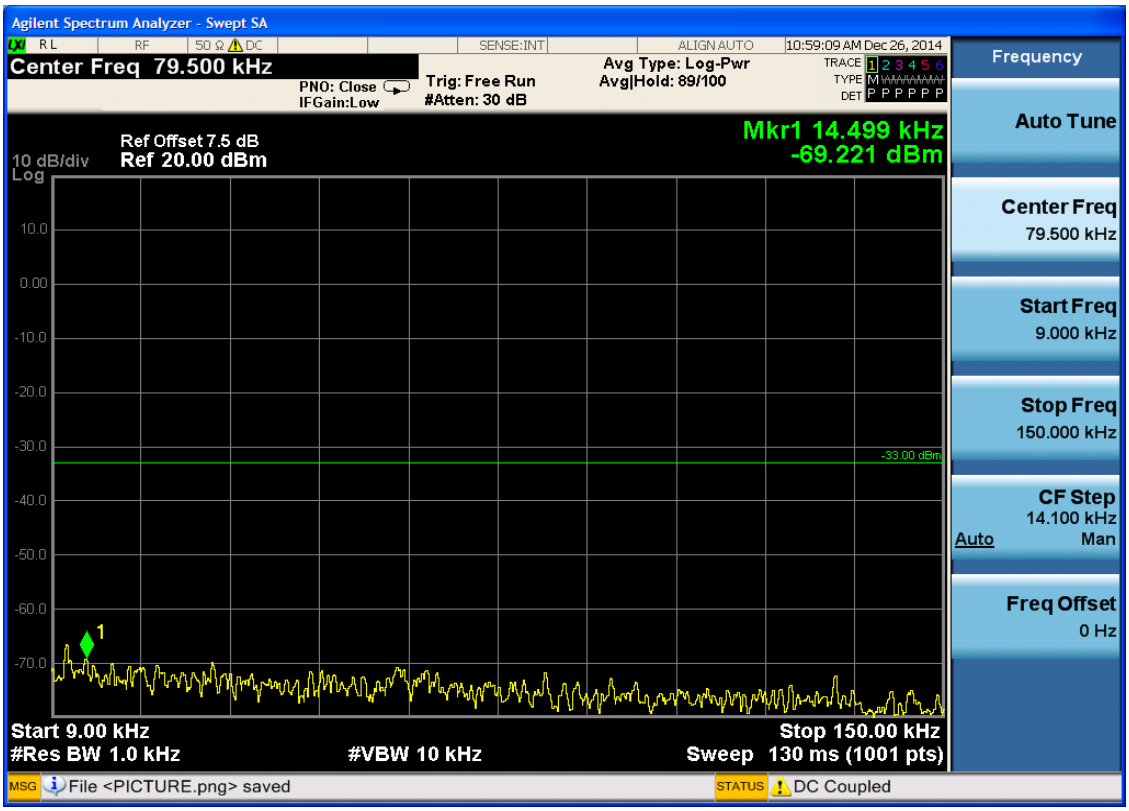
6.1.1.2 Test Mode = GSM/TM2

6.1.1.2.1 Test Channel = LCH



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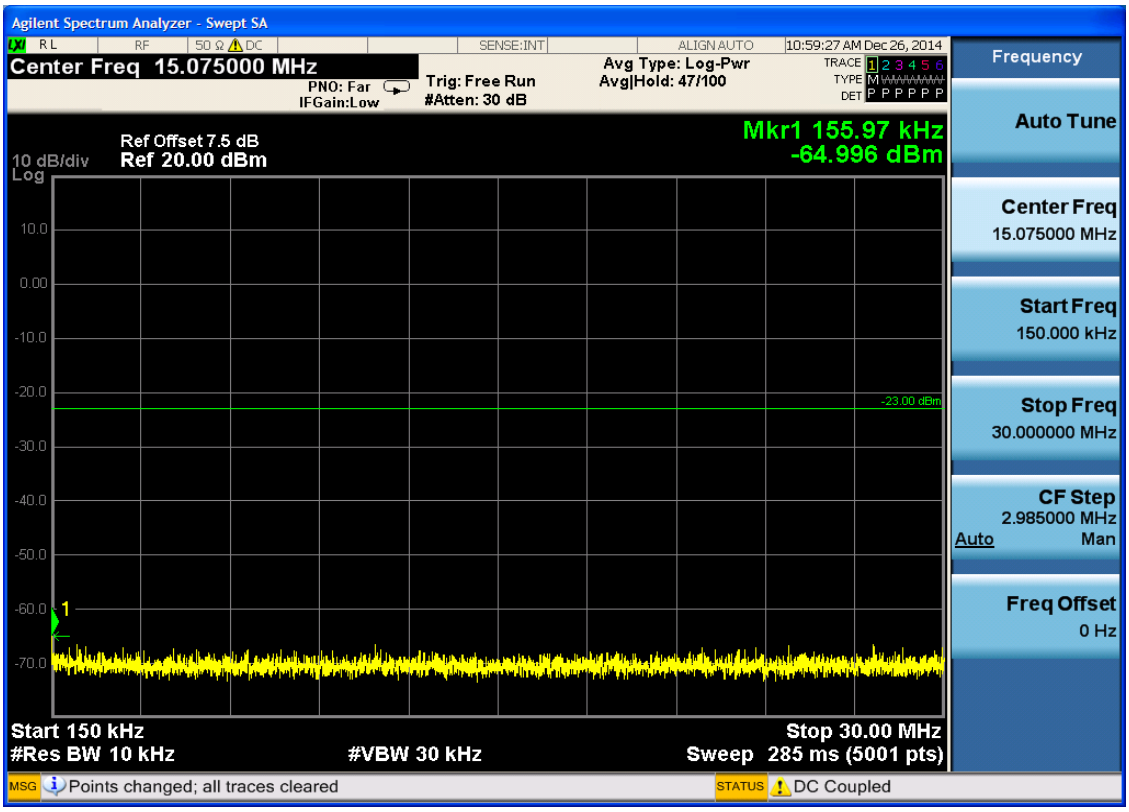

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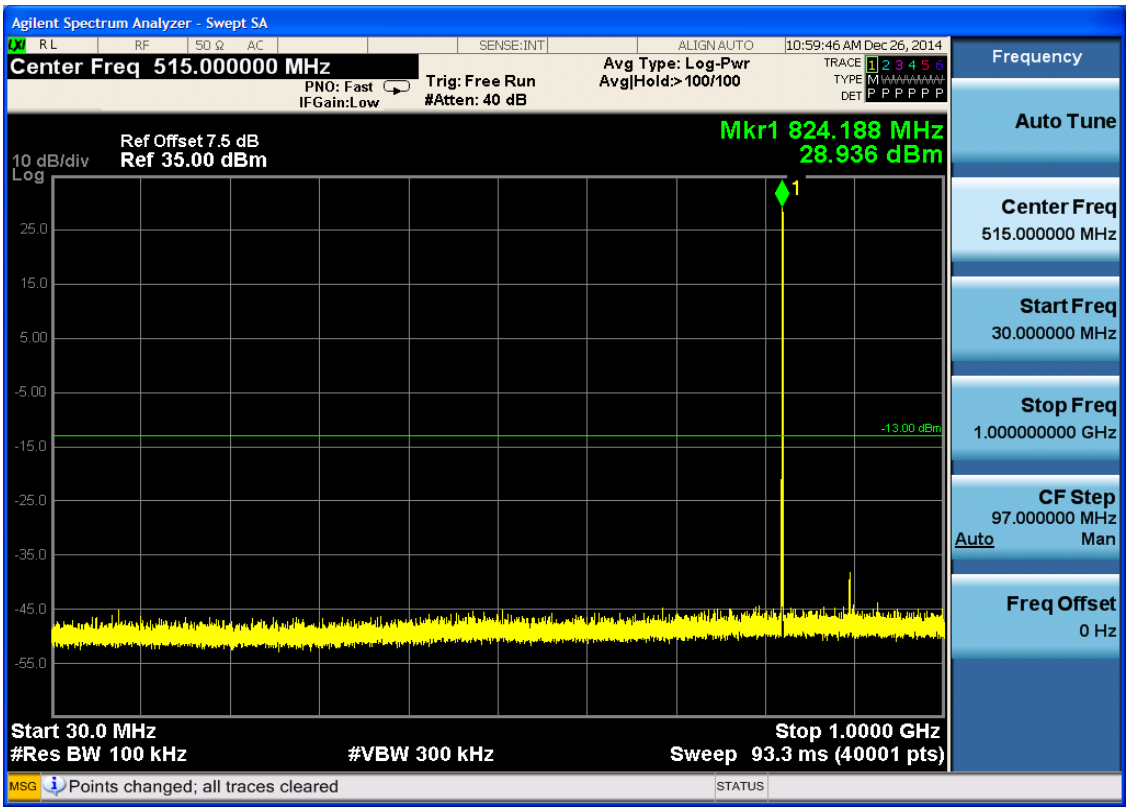

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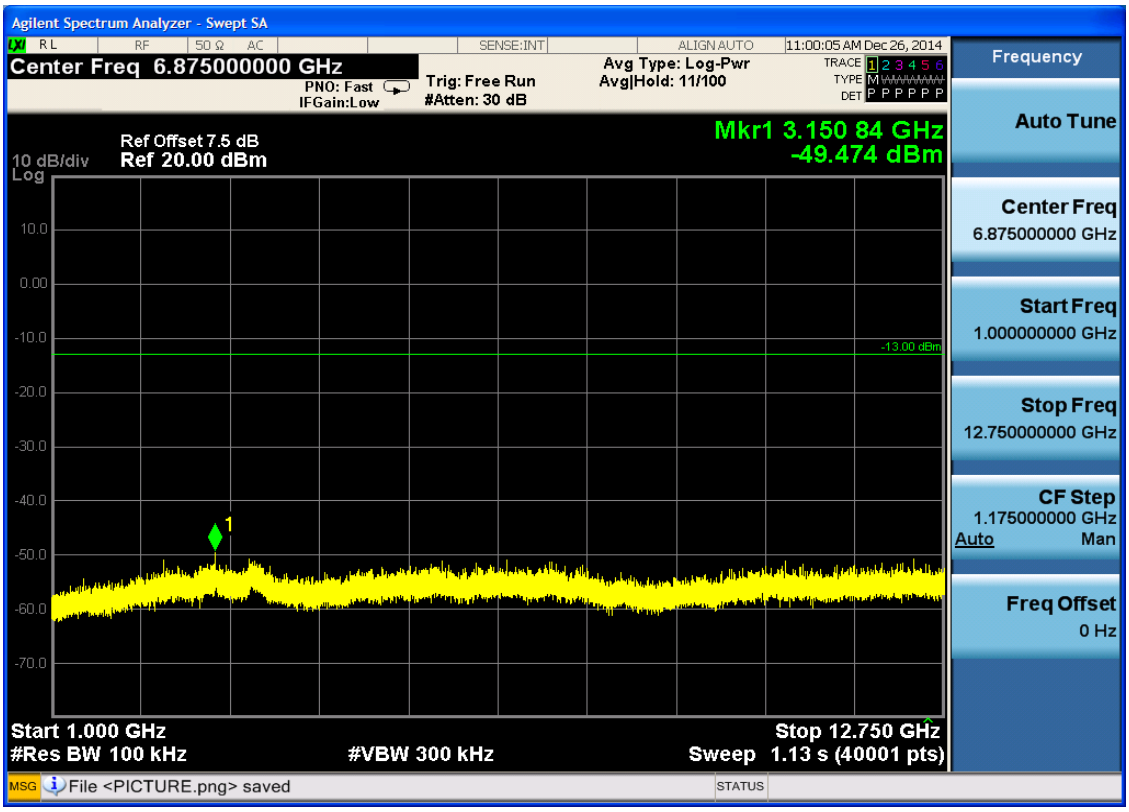

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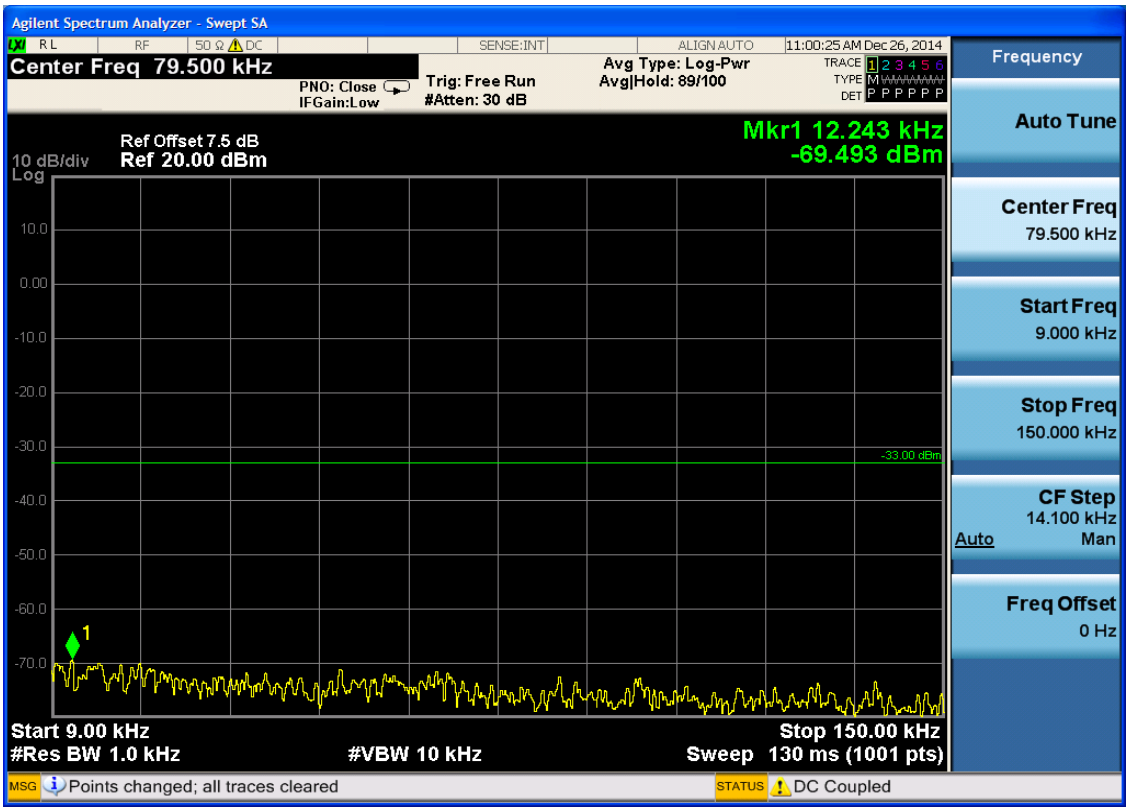
6.1.1.2.2 Test Channel = MCH



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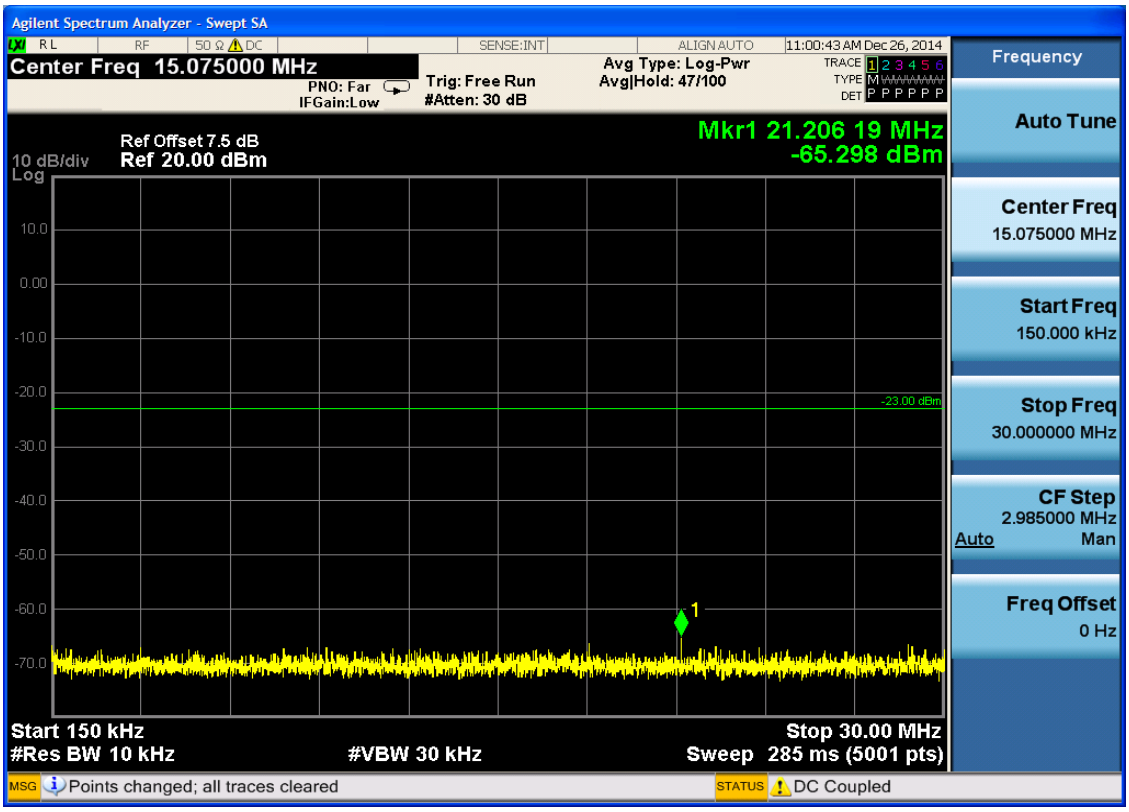

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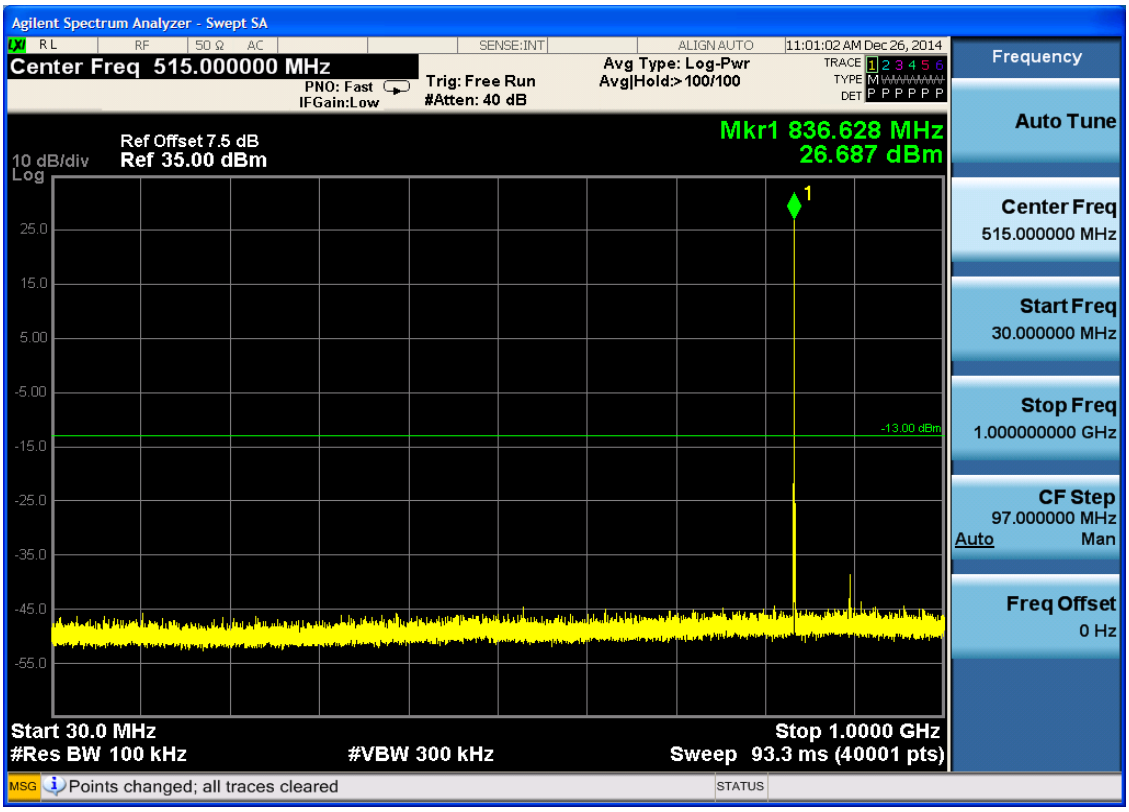

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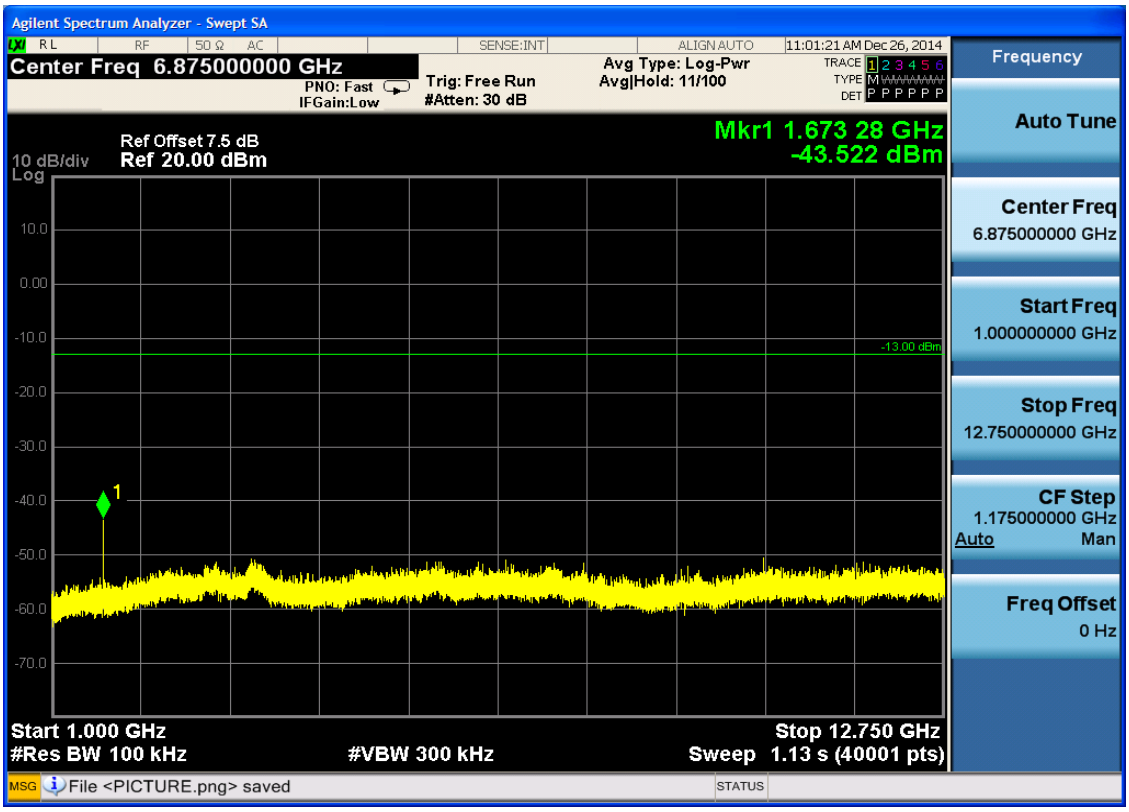

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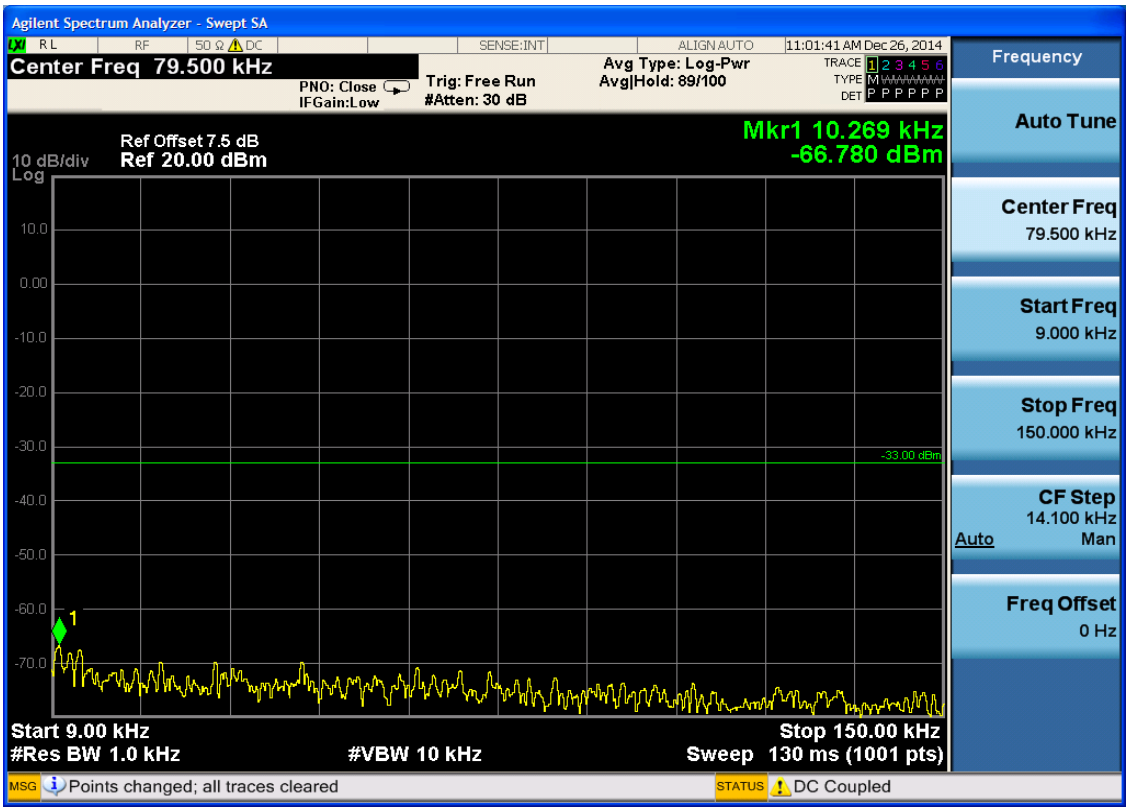
6.1.1.2.3 Test Channel = HCH



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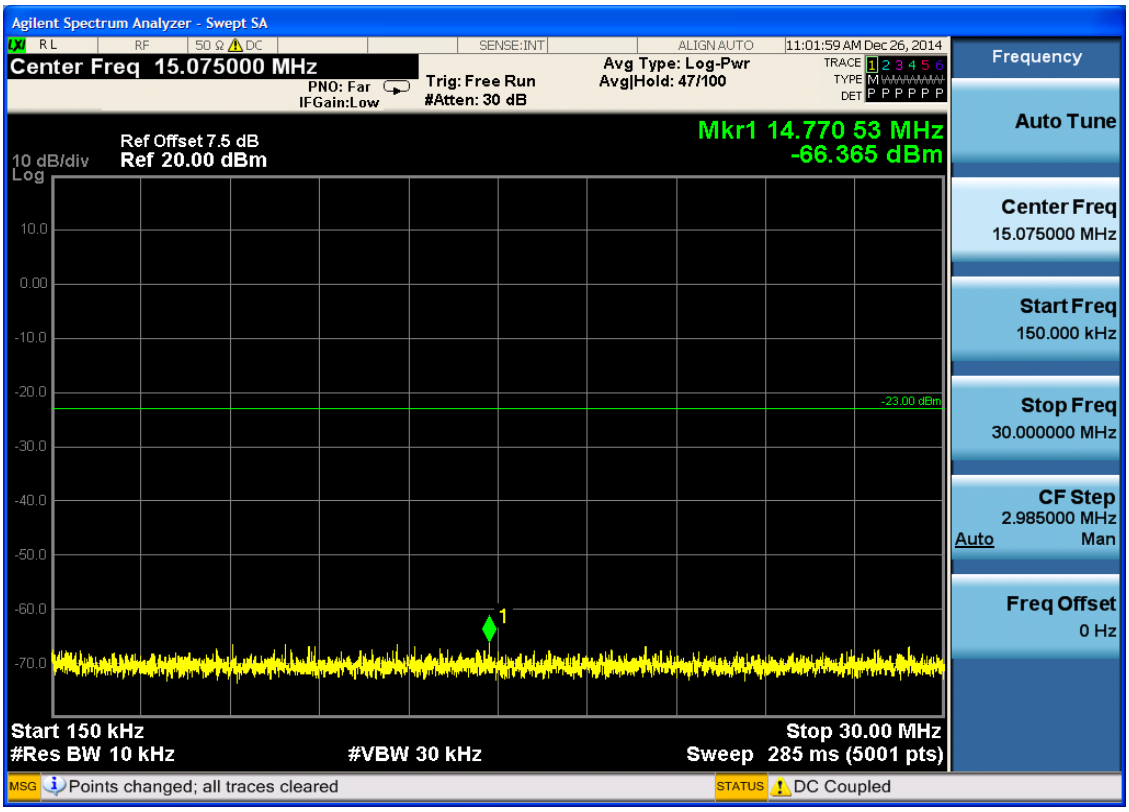

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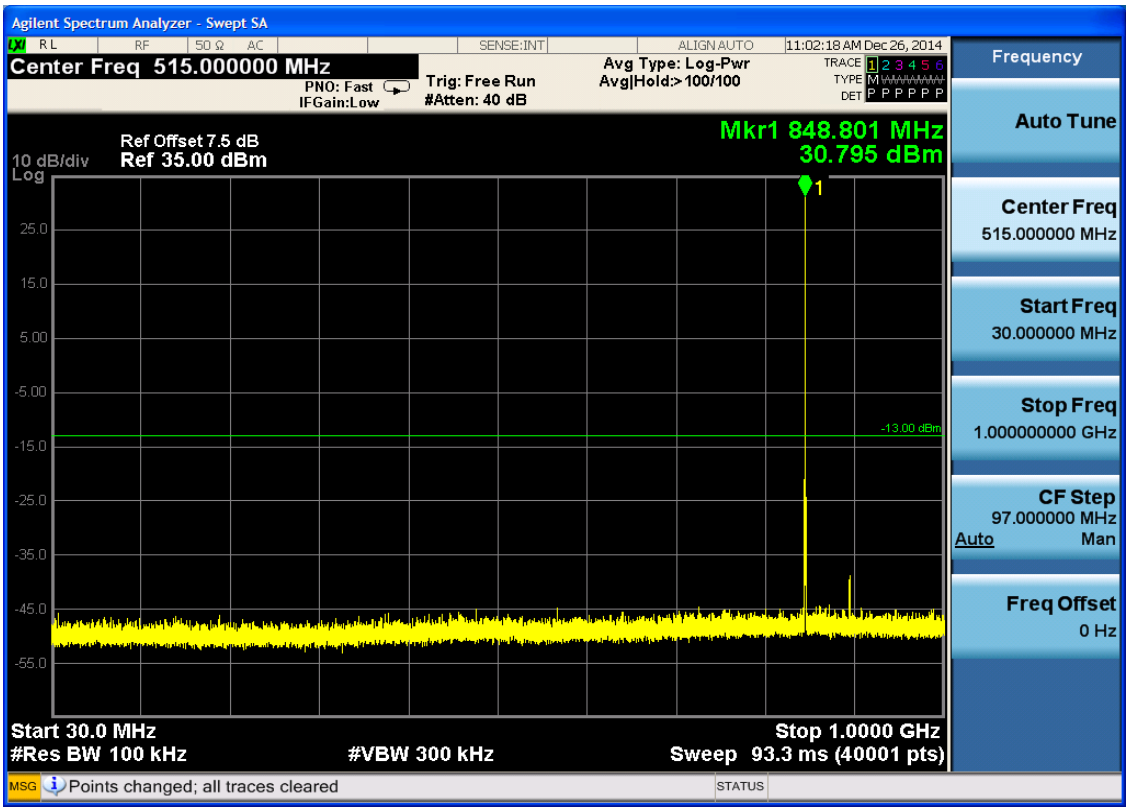

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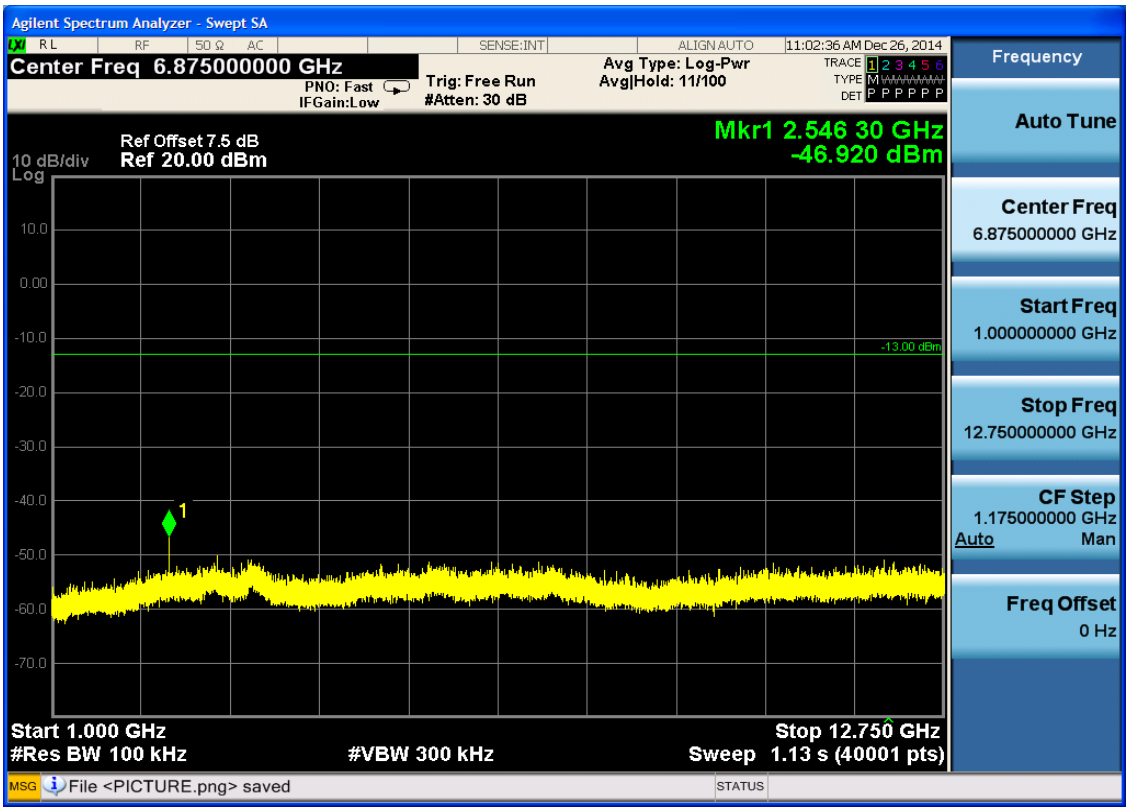

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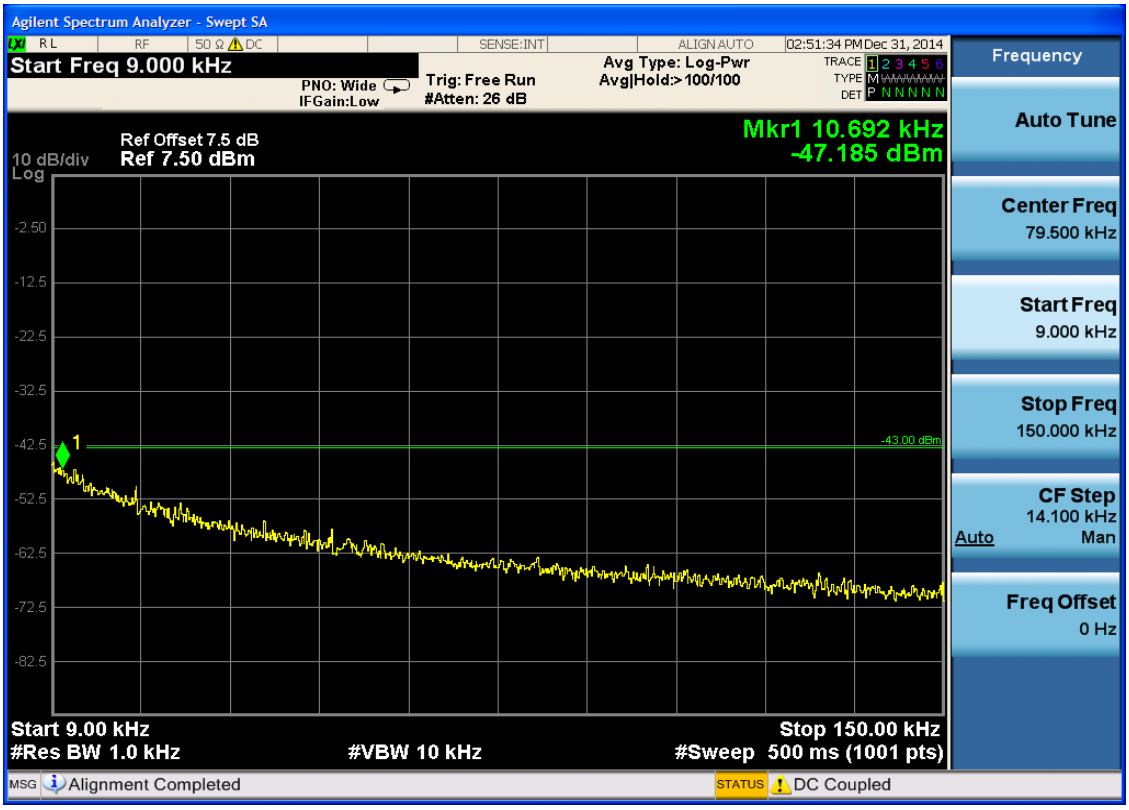
6.1.2 Test Band = GSM1900

6.1.2.1 Test Mode = GSM/TM1

6.1.2.1.1 Test Channel = LCH



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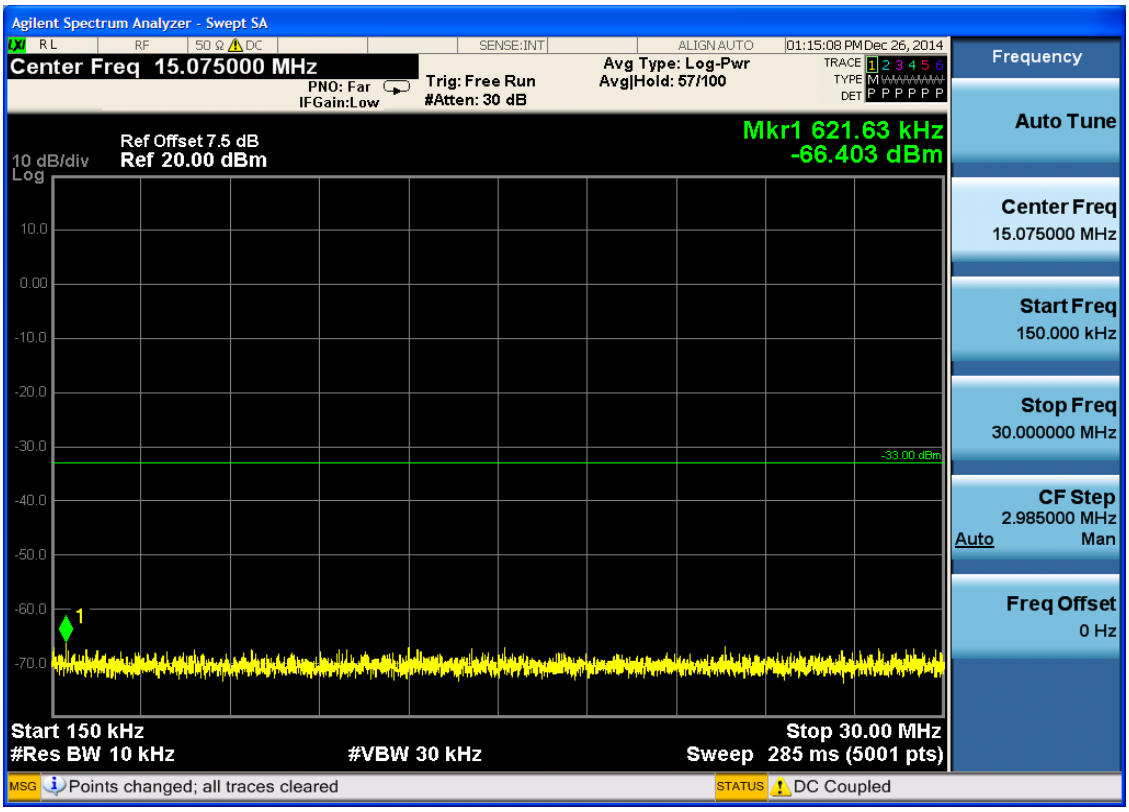

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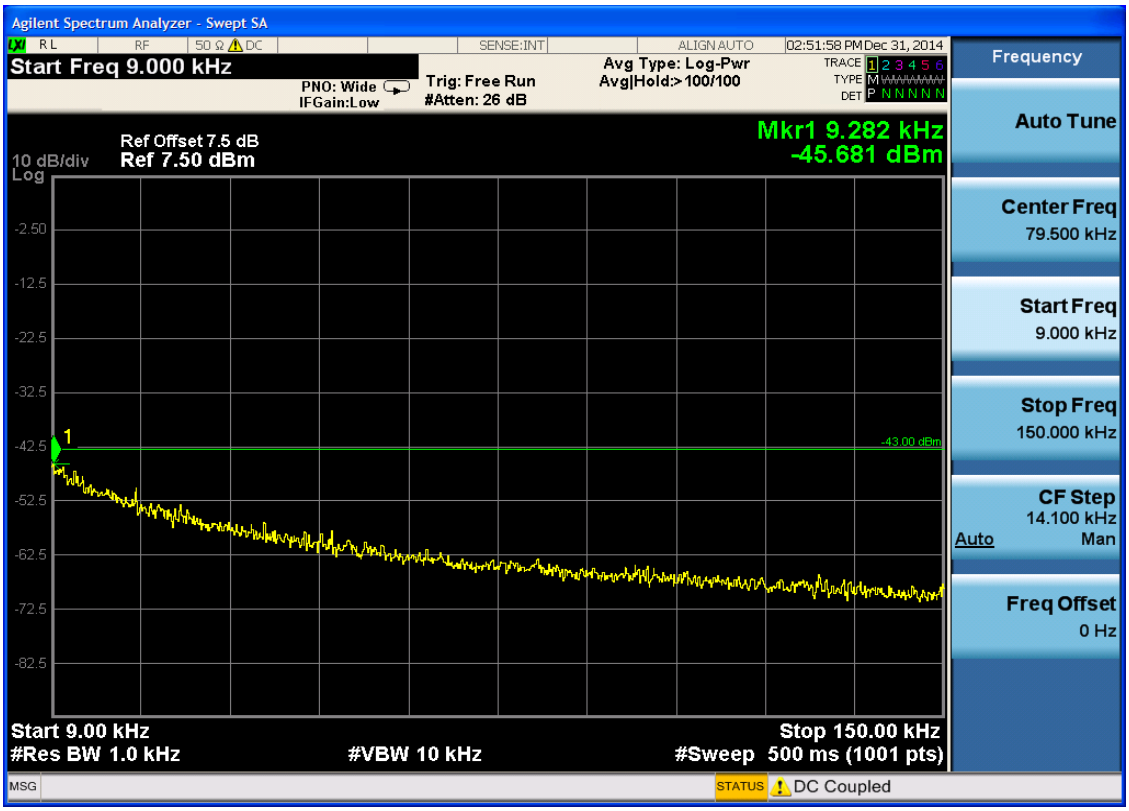
6.1.2.1.2 Test Channel = MCH



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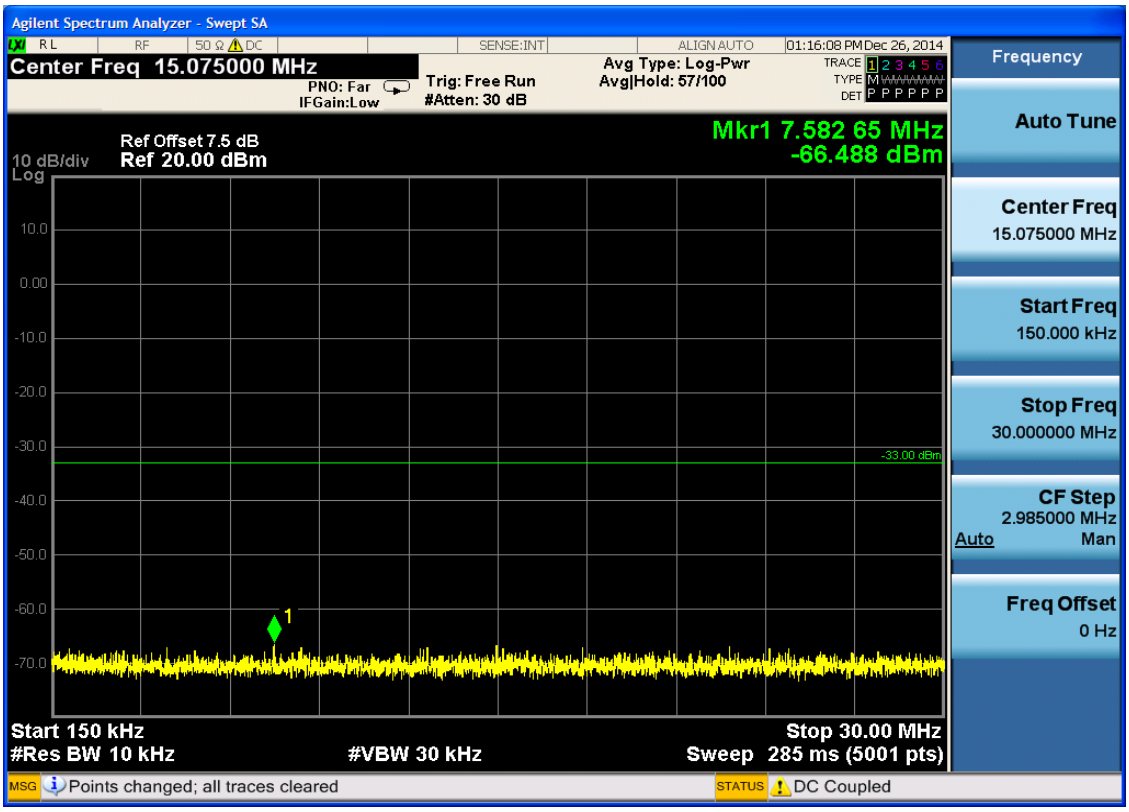

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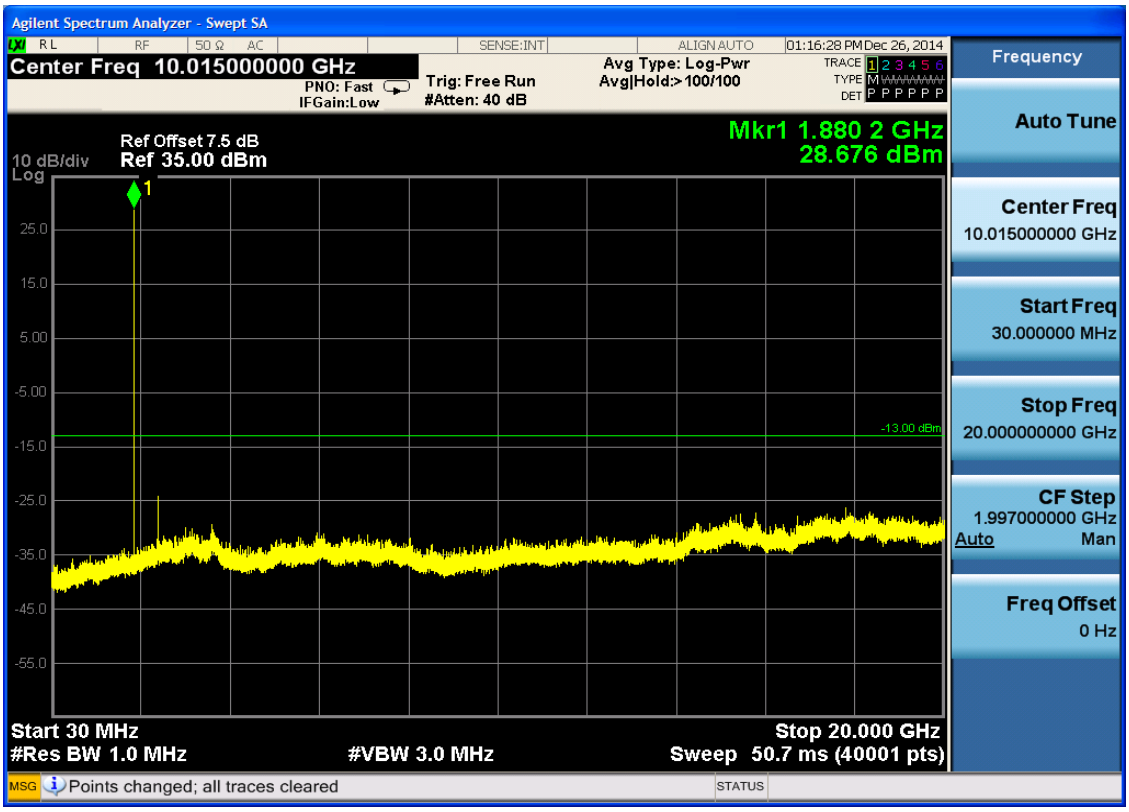

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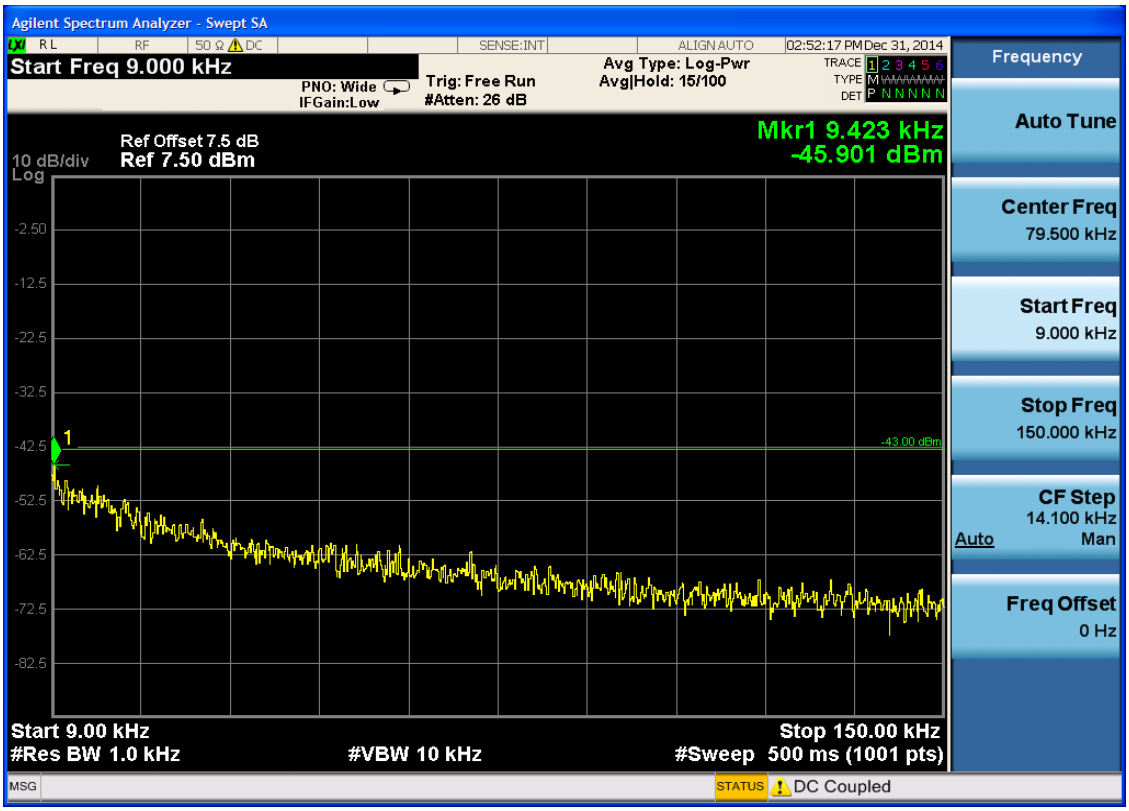
6.1.2.1.3 Test Channel = HCH



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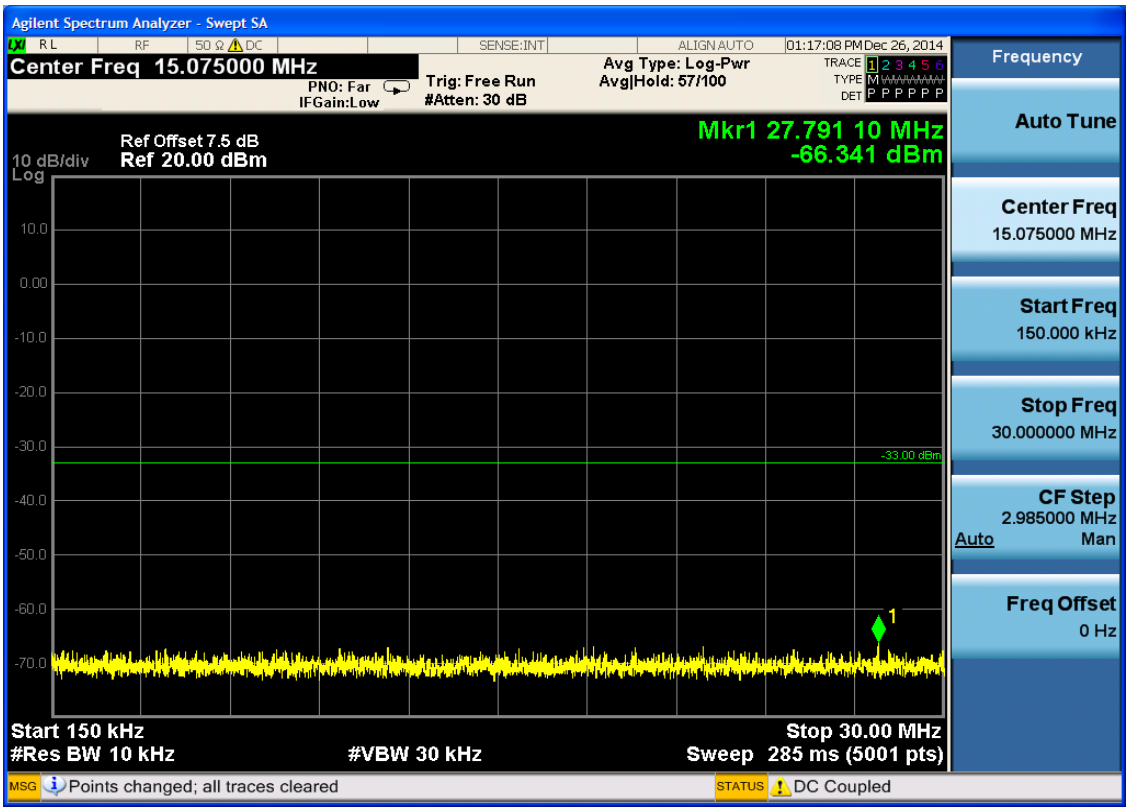

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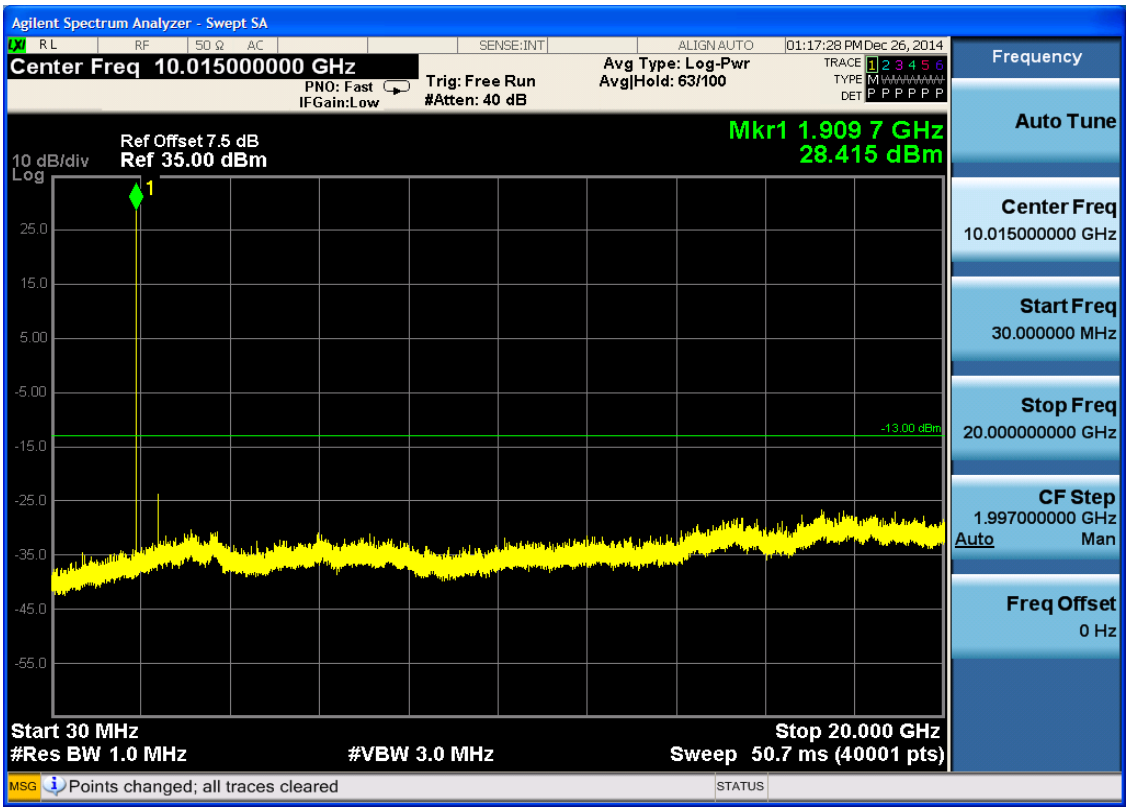

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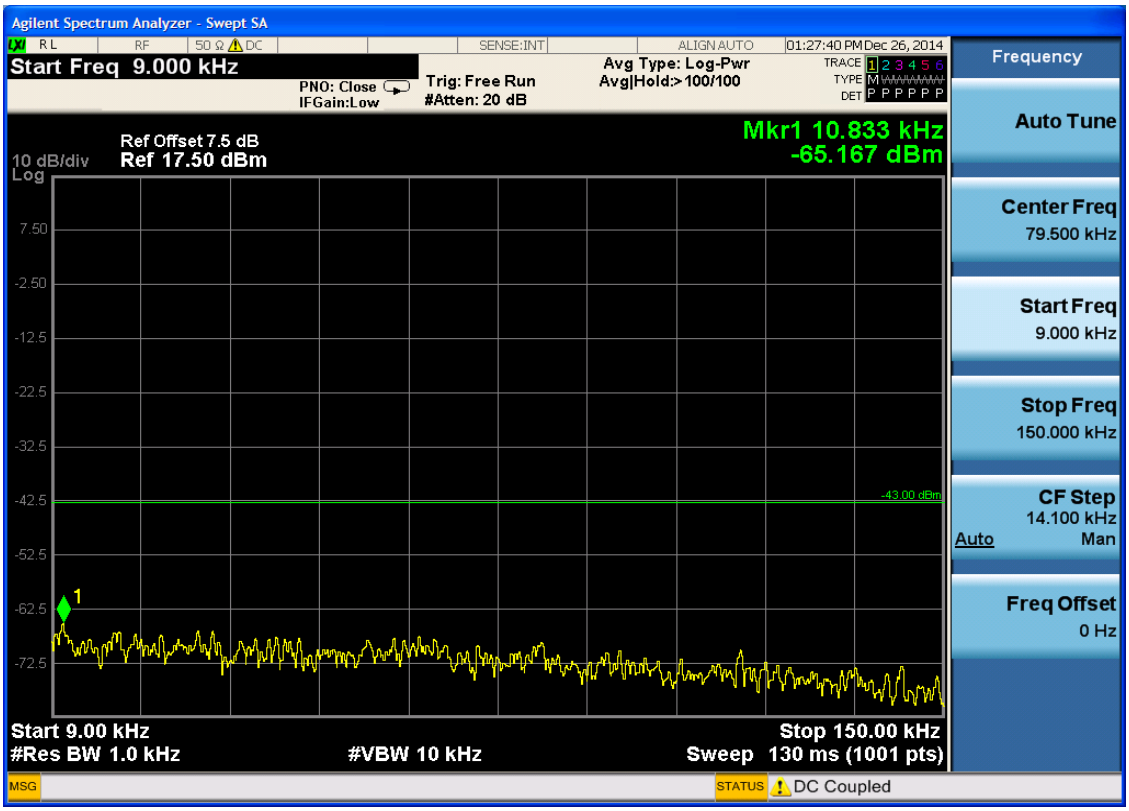
6.1.2.2 Test Mode = GSM/TM2

6.1.2.2.1 Test Channel = LCH



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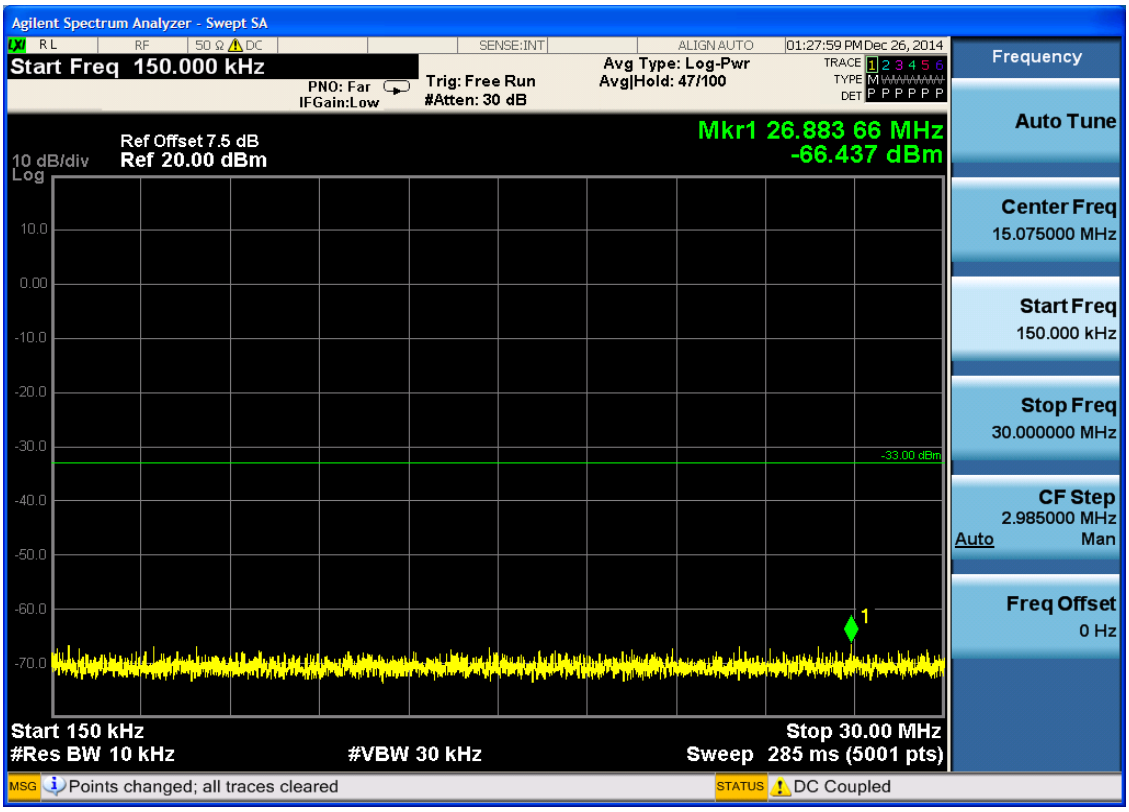

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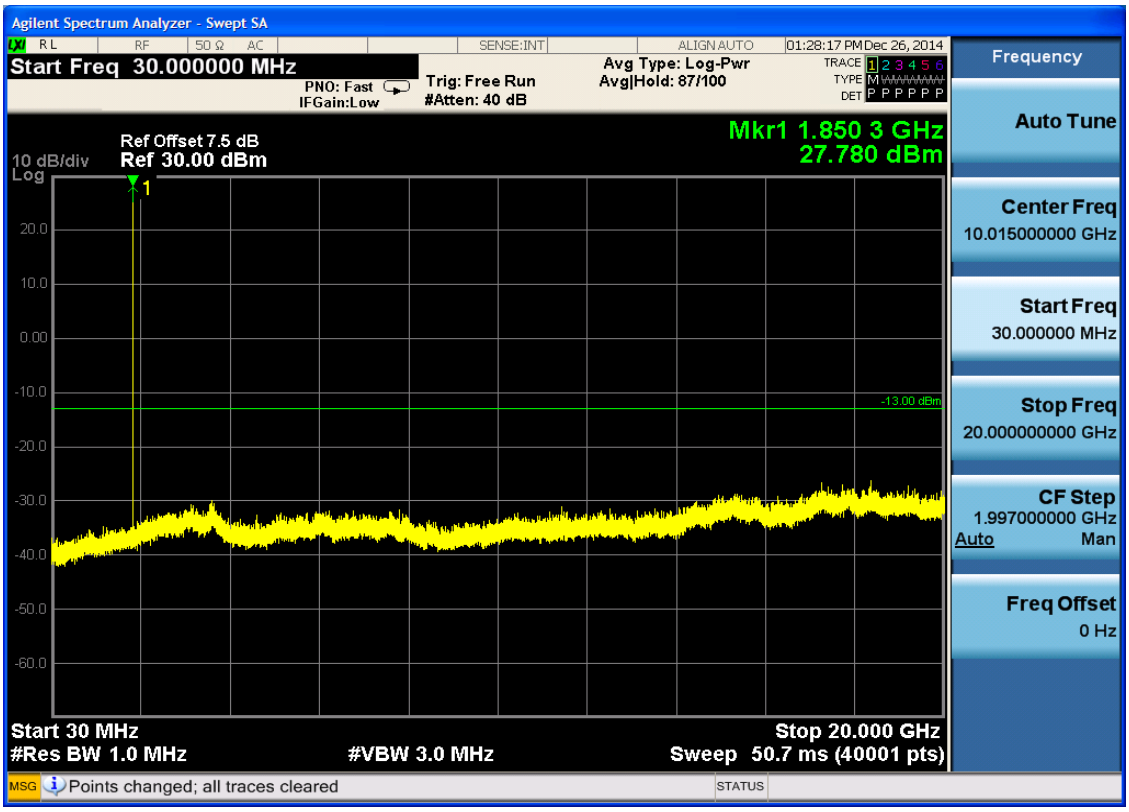

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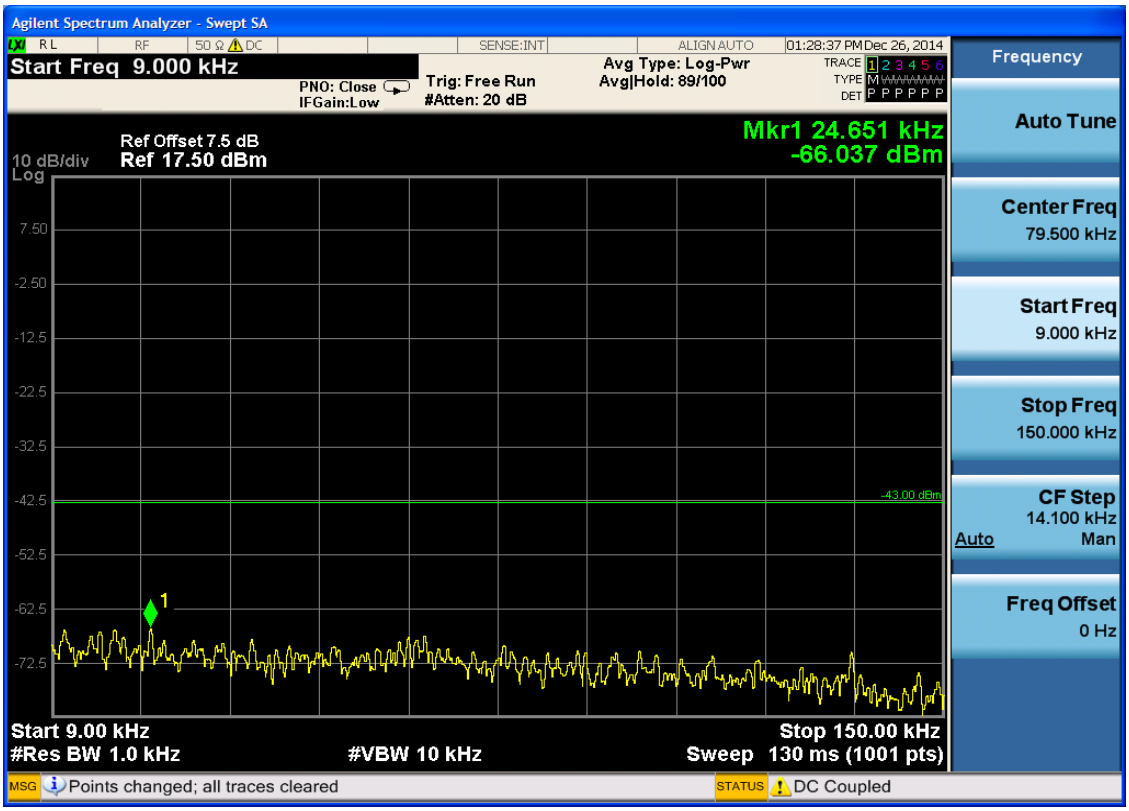
6.1.2.2.2 Test Channel = MCH



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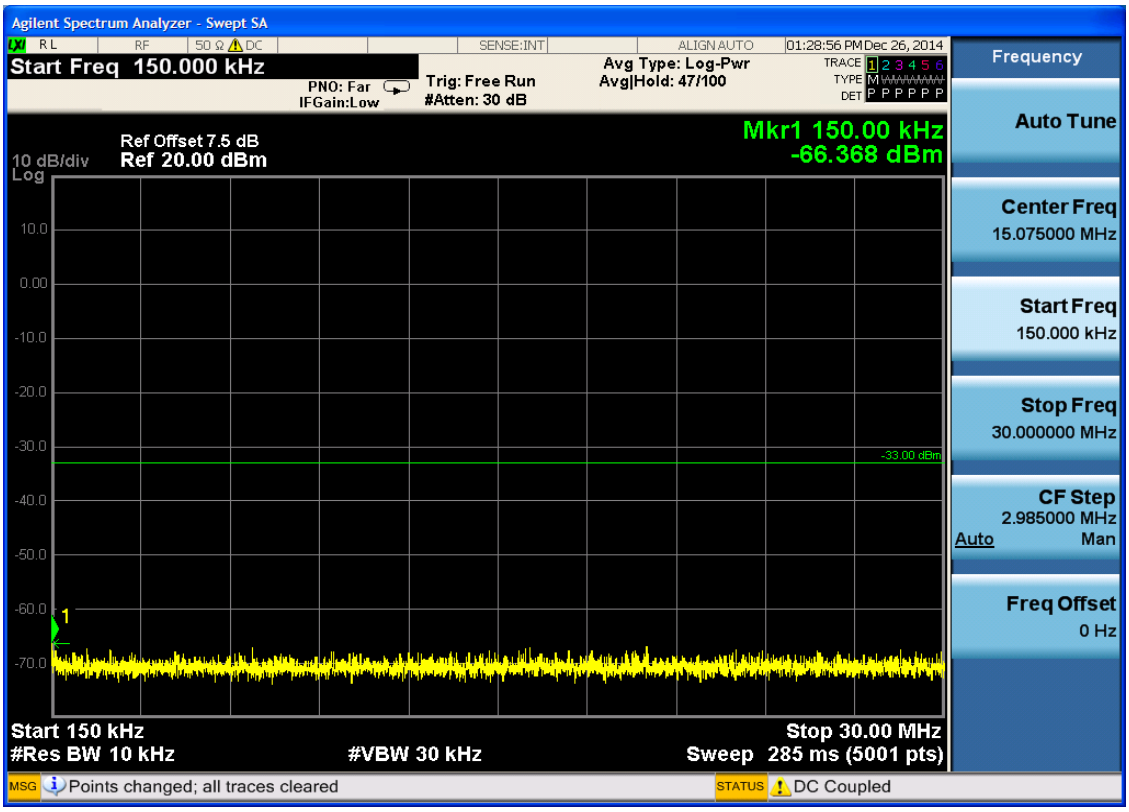

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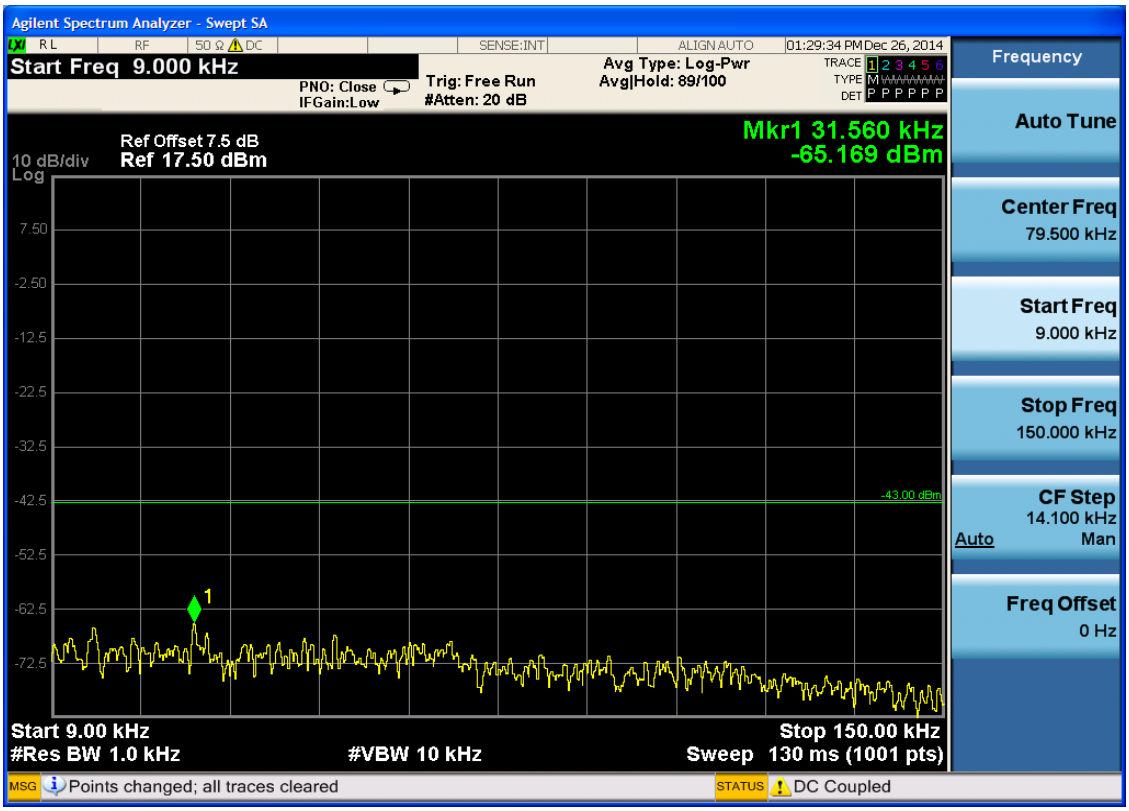
6.1.2.2.3 Test Channel = HCH



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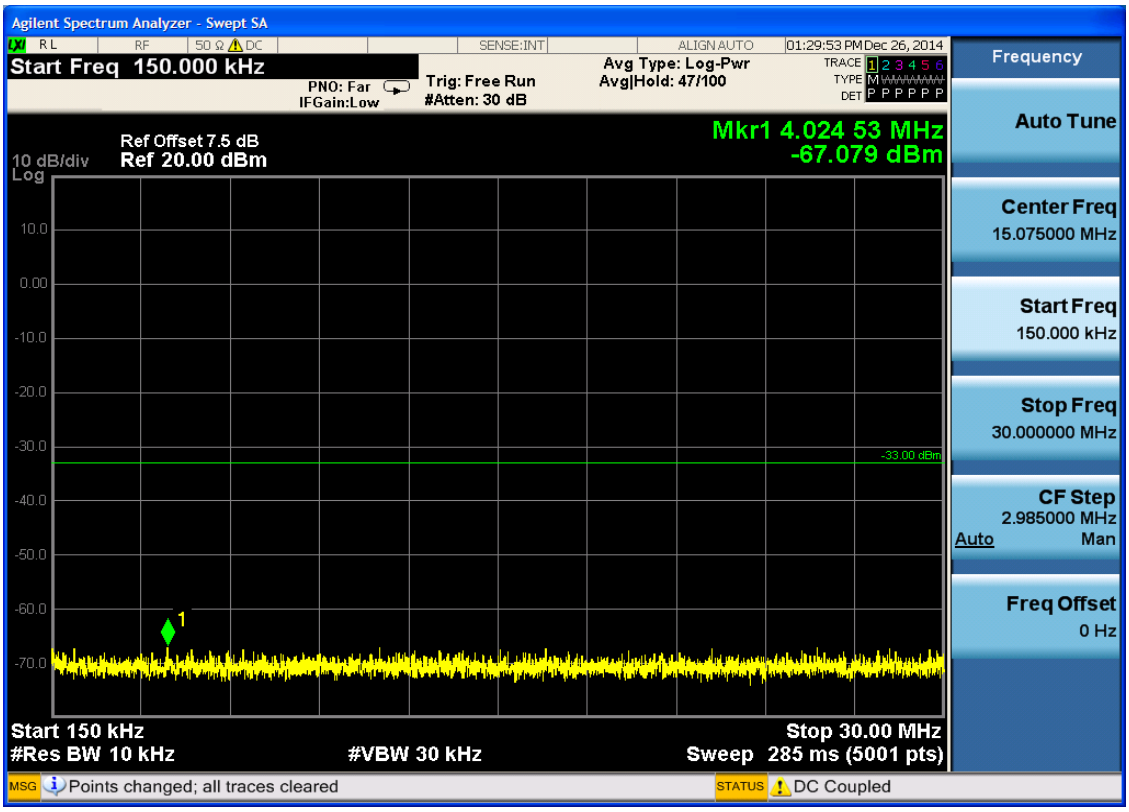

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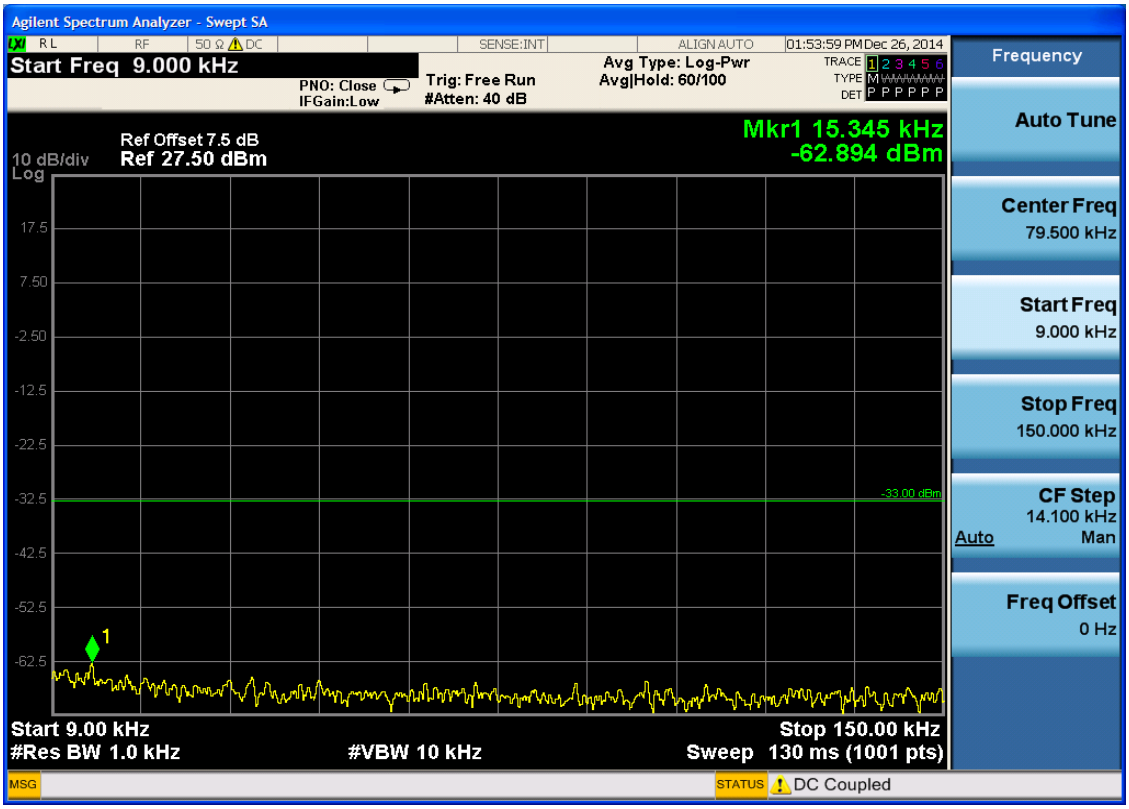
6.2 For UMTS

6.2.1 Test Band = WCDMA850

6.2.1.1 Test Mode = UMTS/TM1

6.2.1.1.1 Test Channel = LCH



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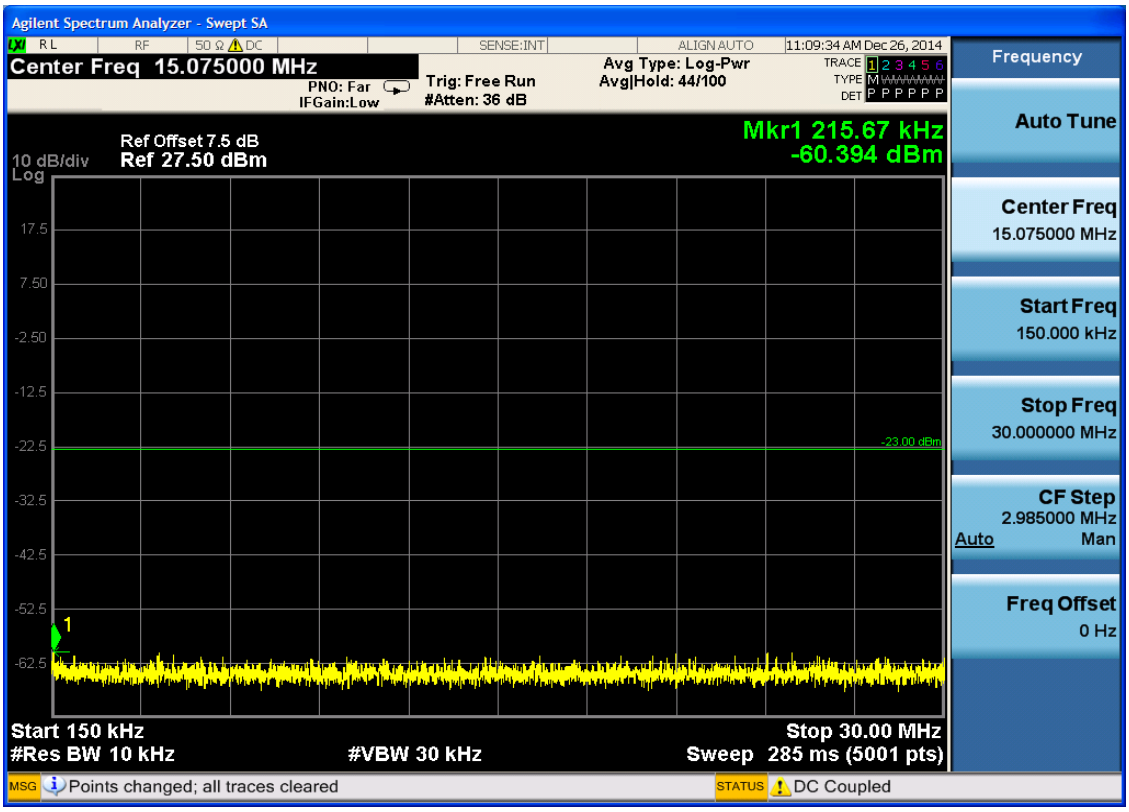

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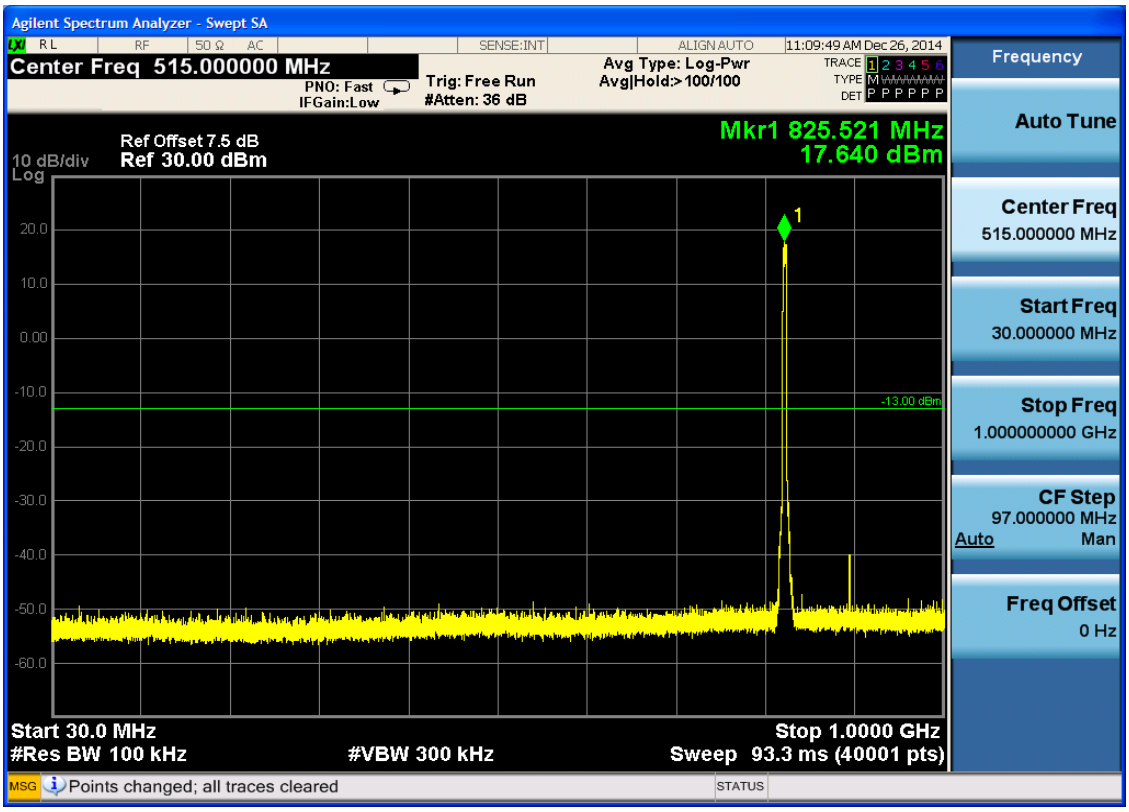
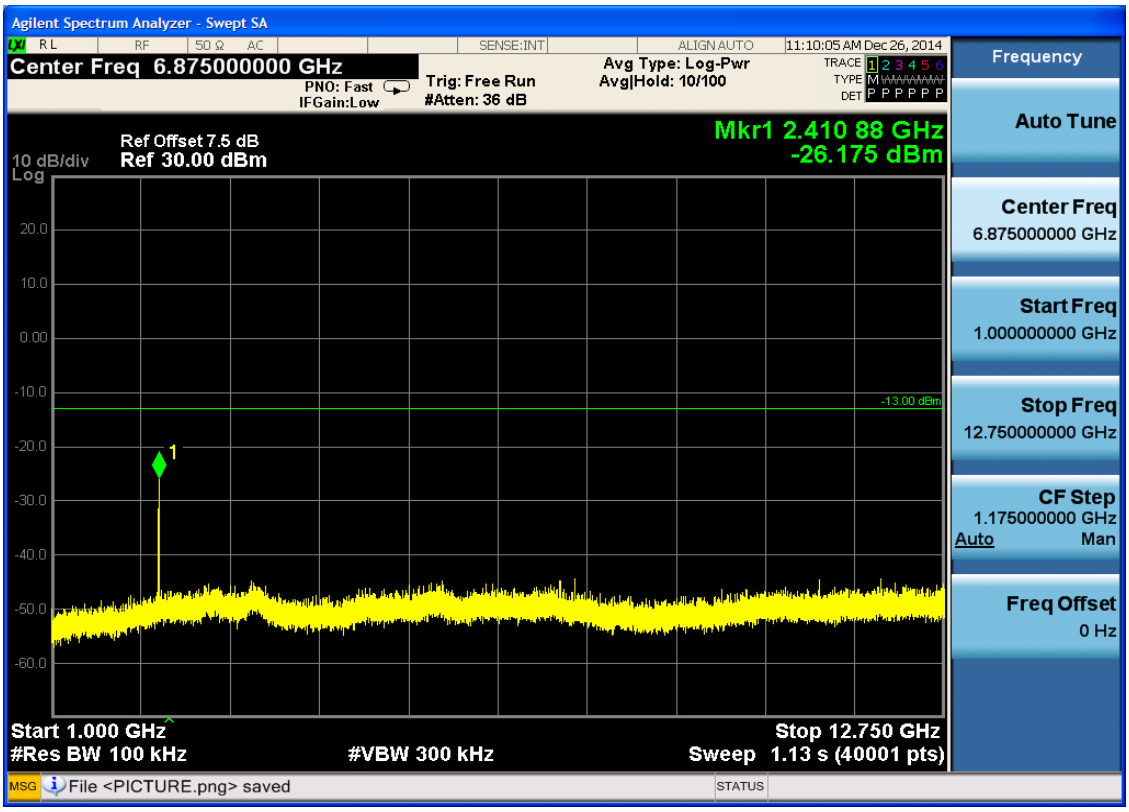

Agilent Spectrum Analyzer - Swept SA
Center Freq 515.000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:09:49 AM Dec 26, 2014
Ref Offset 7.5 dB
10 dB/div
Ref 30.00 dBm
Log
Mkr1 825.521 MHz
17.640 dBm
-13.00 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 93.3 ms (40001 pts)
Points changed; all traces cleared
Frequency
Auto Tune
Center Freq
515.000000 MHz
Start Freq
30.000000 MHz
Stop Freq
1.000000000 GHz
CF Step
97.000000 MHz
Auto
Man
Freq Offset
0 Hz



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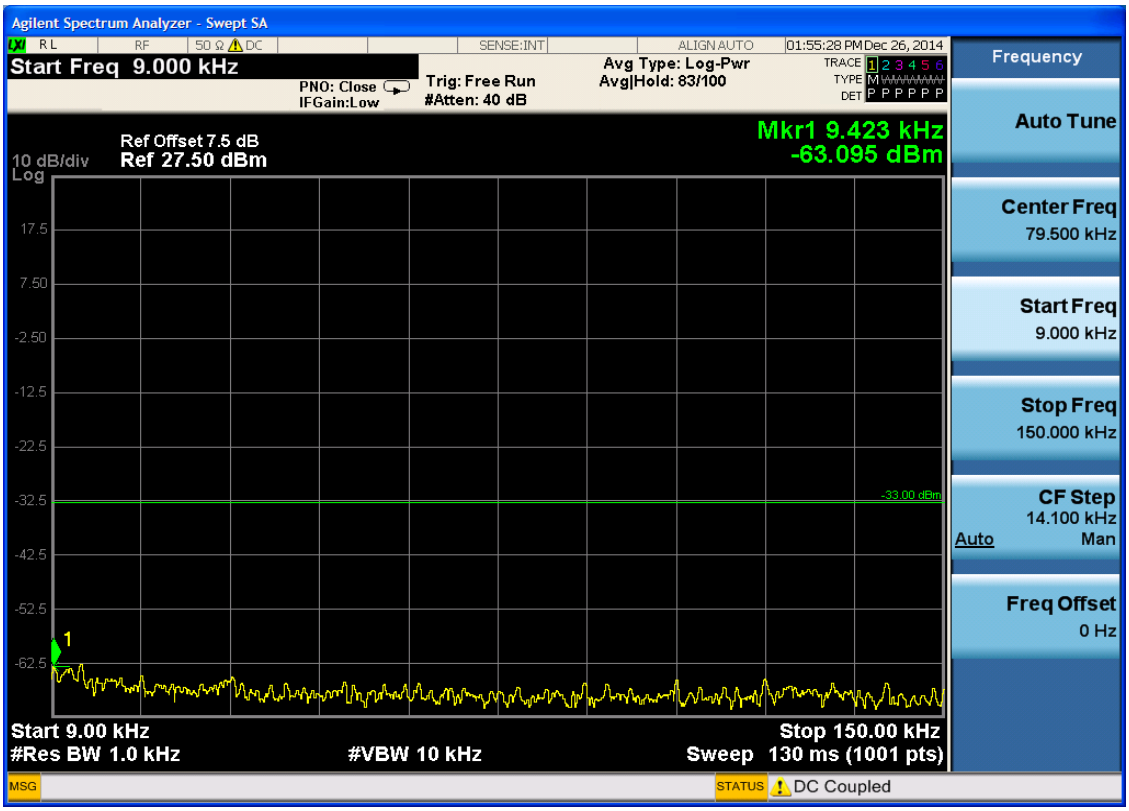
6.2.1.1.2 Test Channel = MCH



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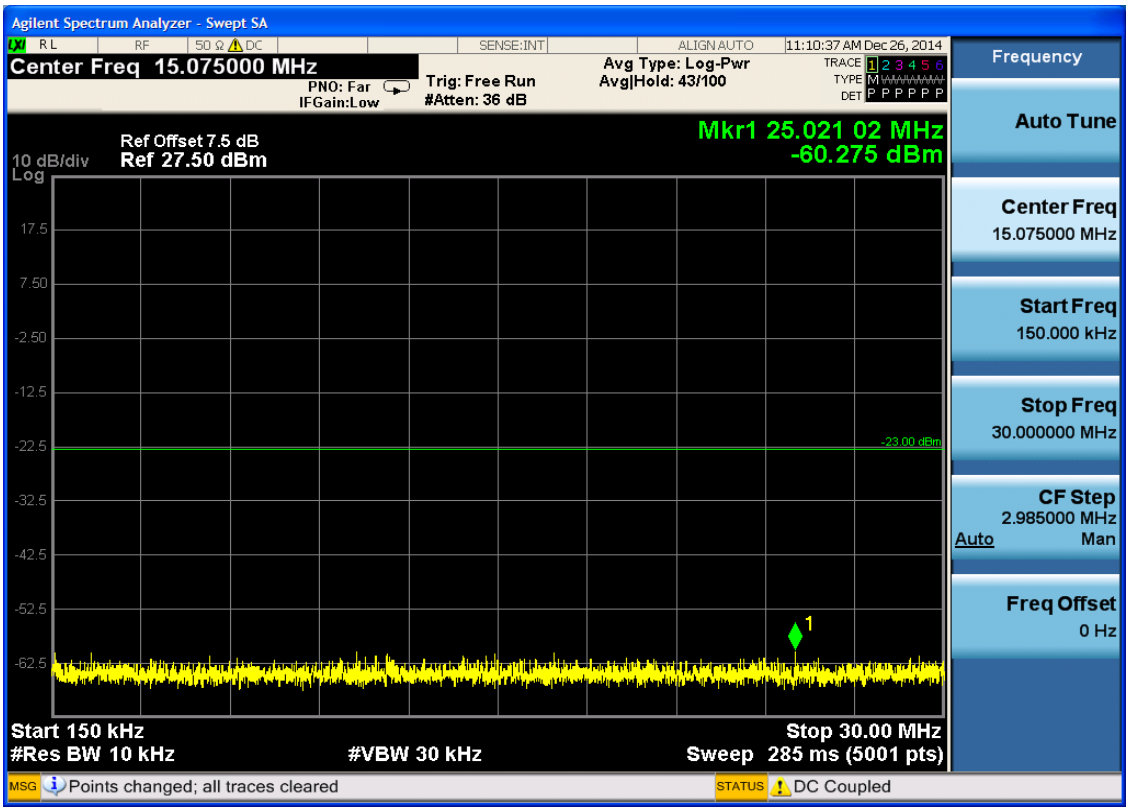

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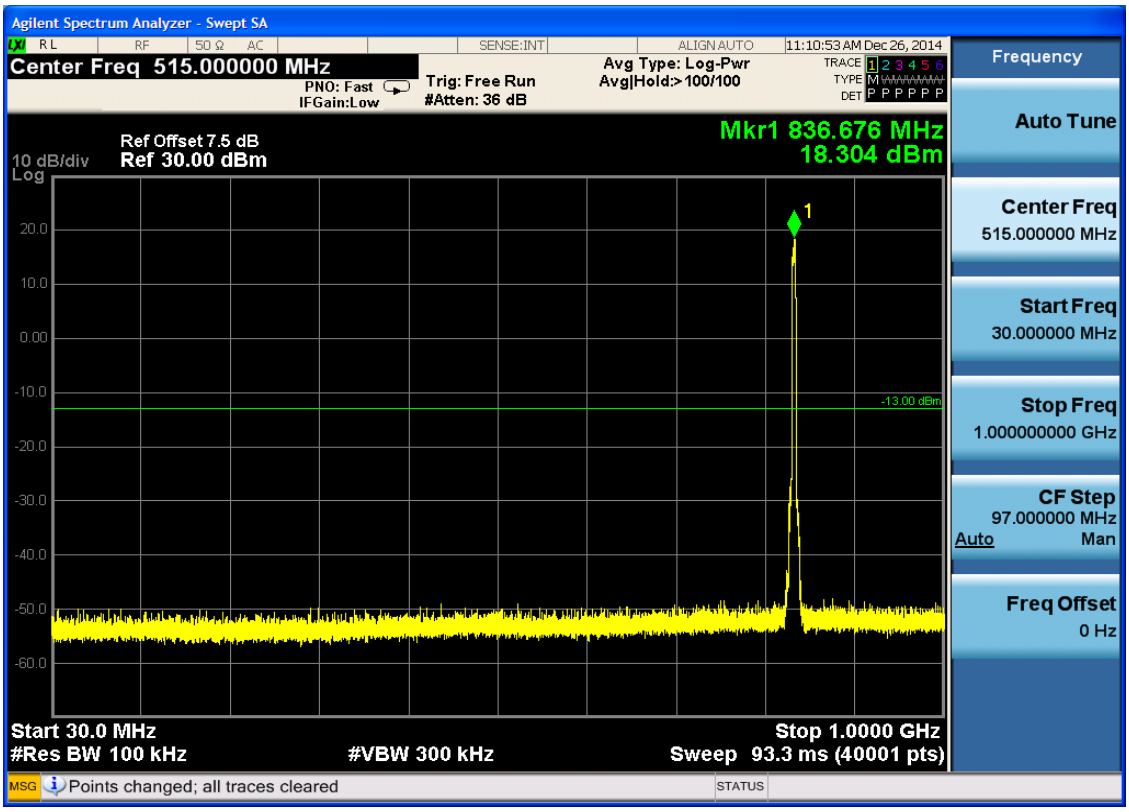

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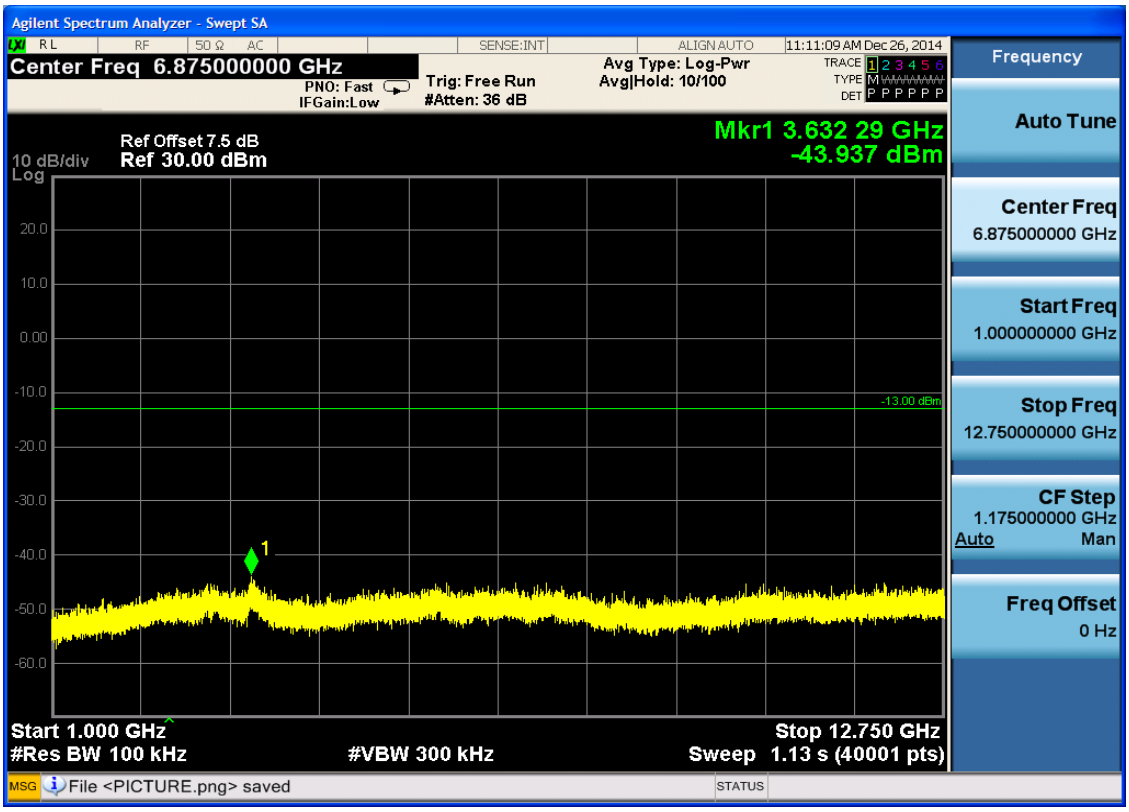

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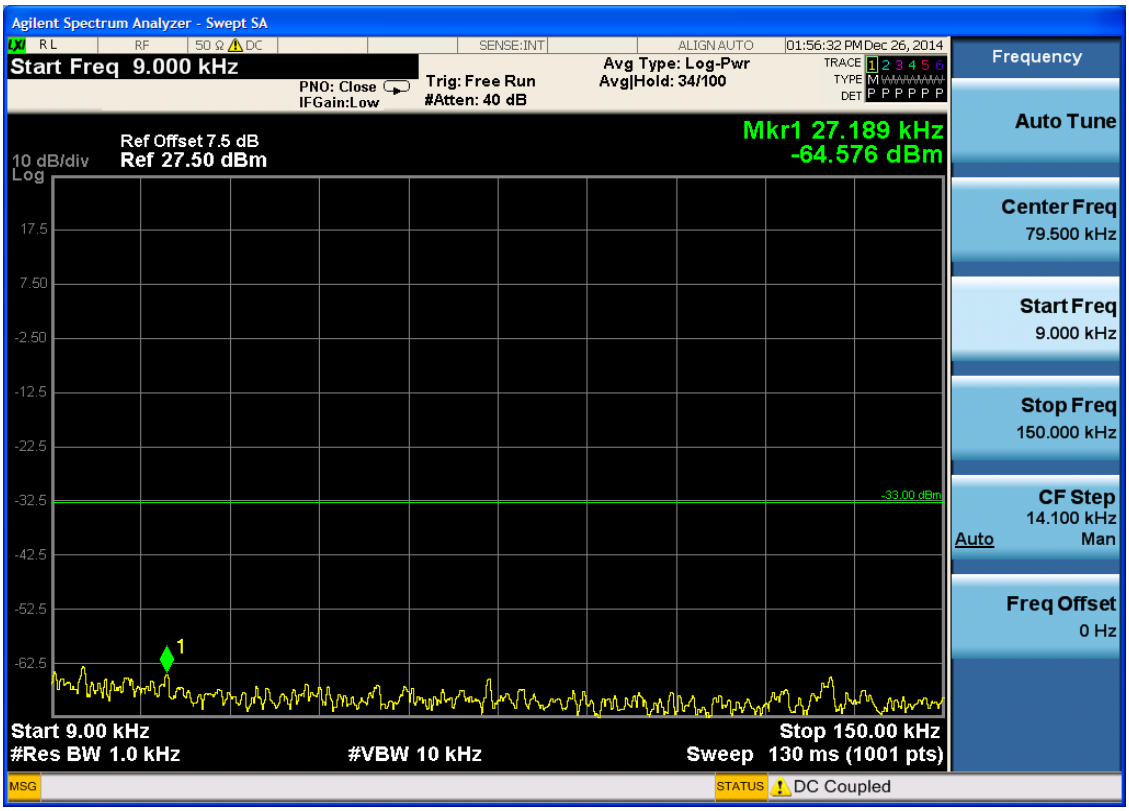
6.2.1.1.3 Test Channel = HCH



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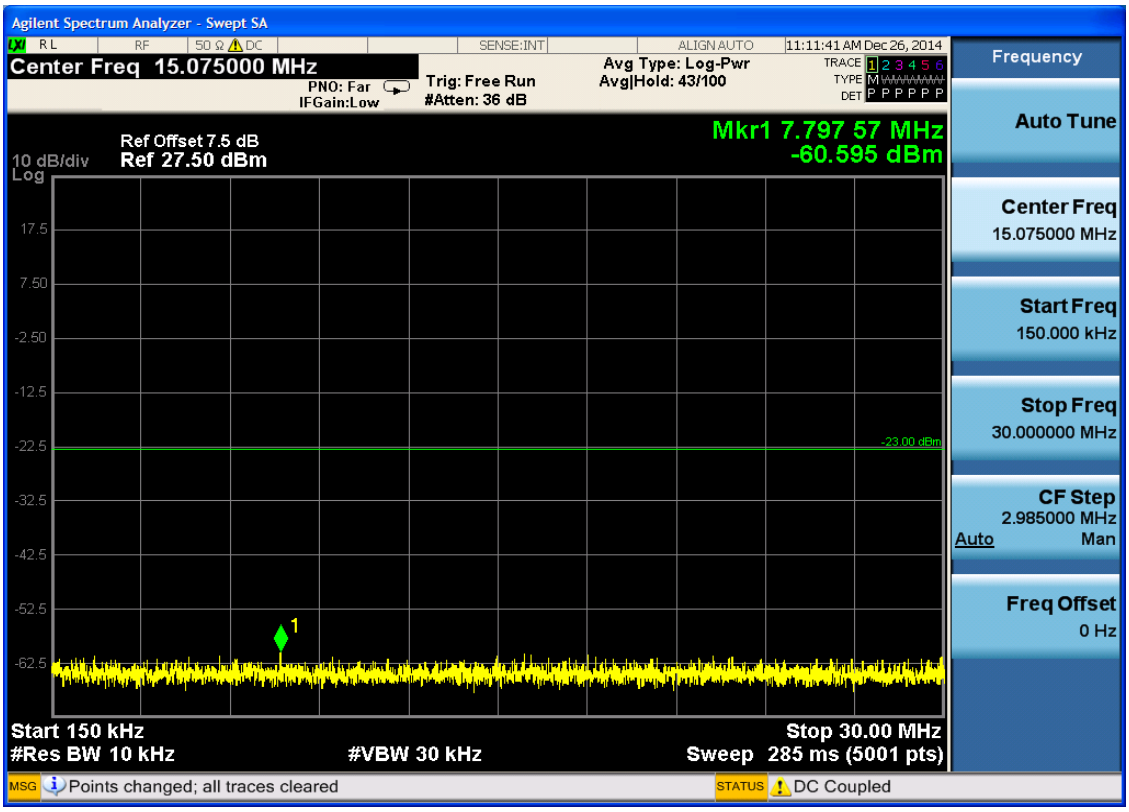

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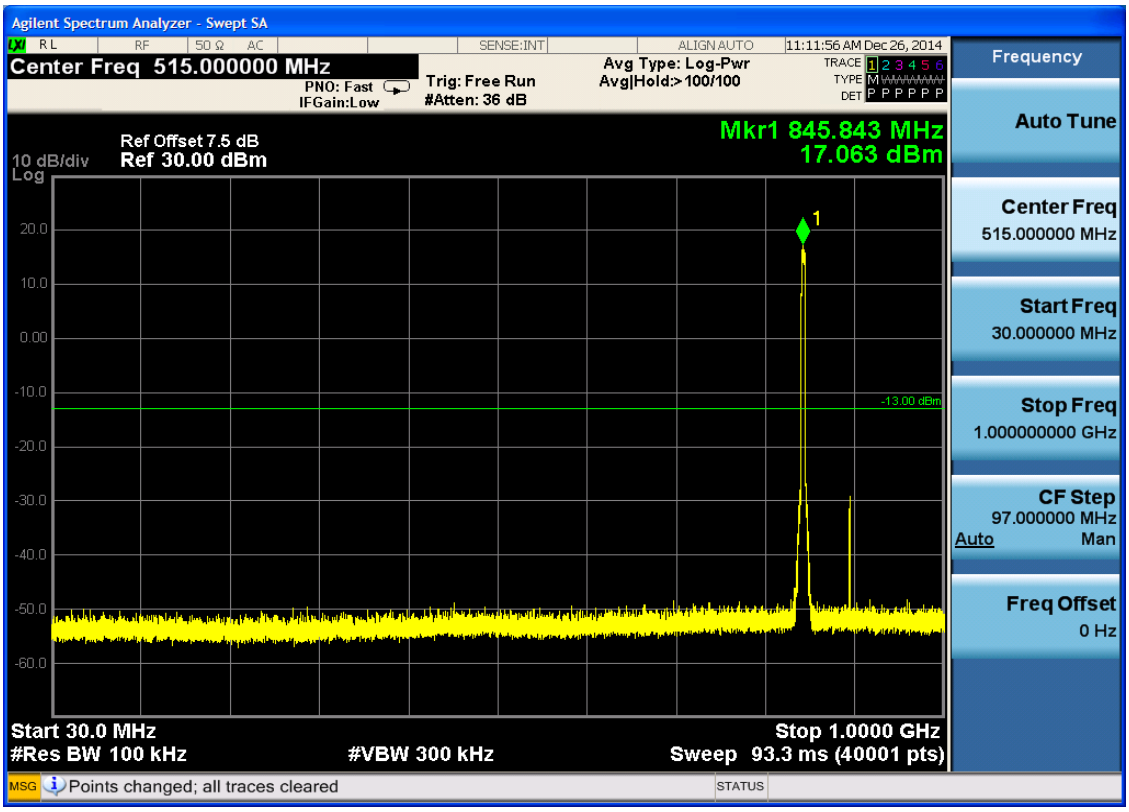
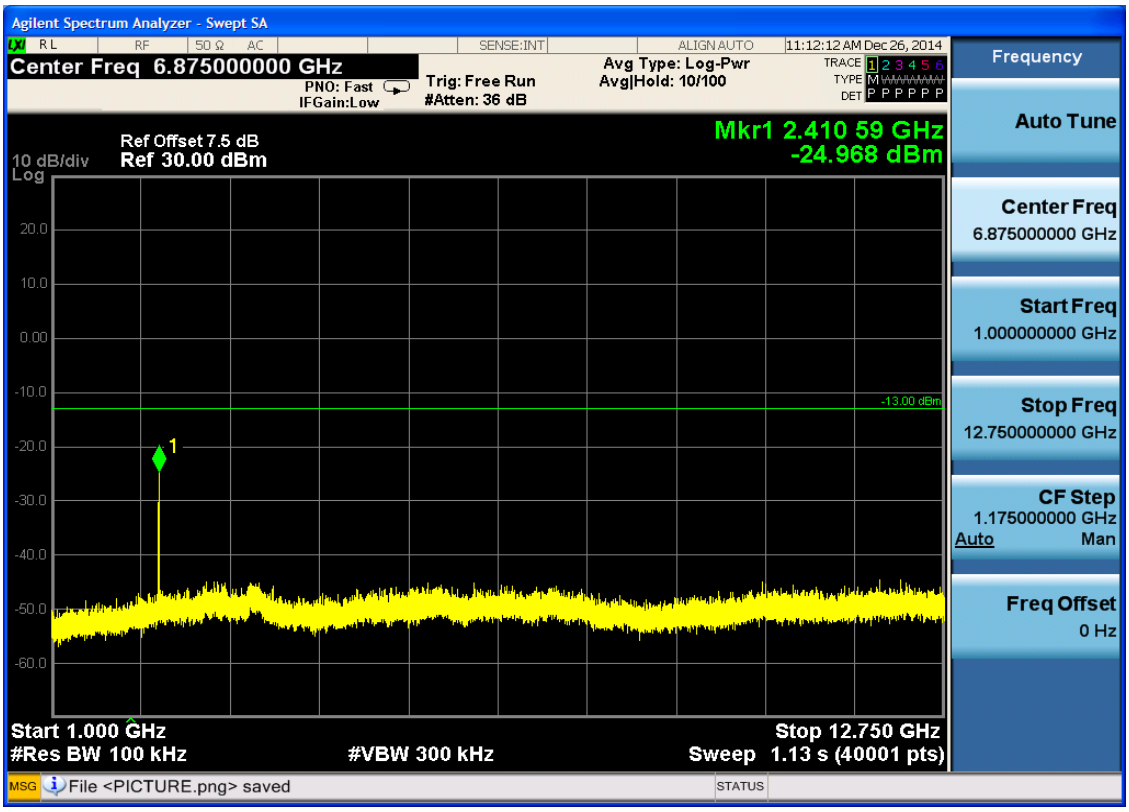

Agilent Spectrum Analyzer - Swept SA
Center Freq 515.000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:11:56 AM Dec 26, 2014
Ref Offset 7.5 dB
10 dB/div
Ref 30.00 dBm
Log
Mkr1 845.843 MHz
17.063 dBm
-13.00 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 93.3 ms (40001 pts)
Points changed; all traces cleared
Frequency
Auto Tune
Center Freq
515.000000 MHz
Start Freq
30.000000 MHz
Stop Freq
1.000000000 GHz
CF Step
97.000000 MHz
Auto
Man
Freq Offset
0 Hz



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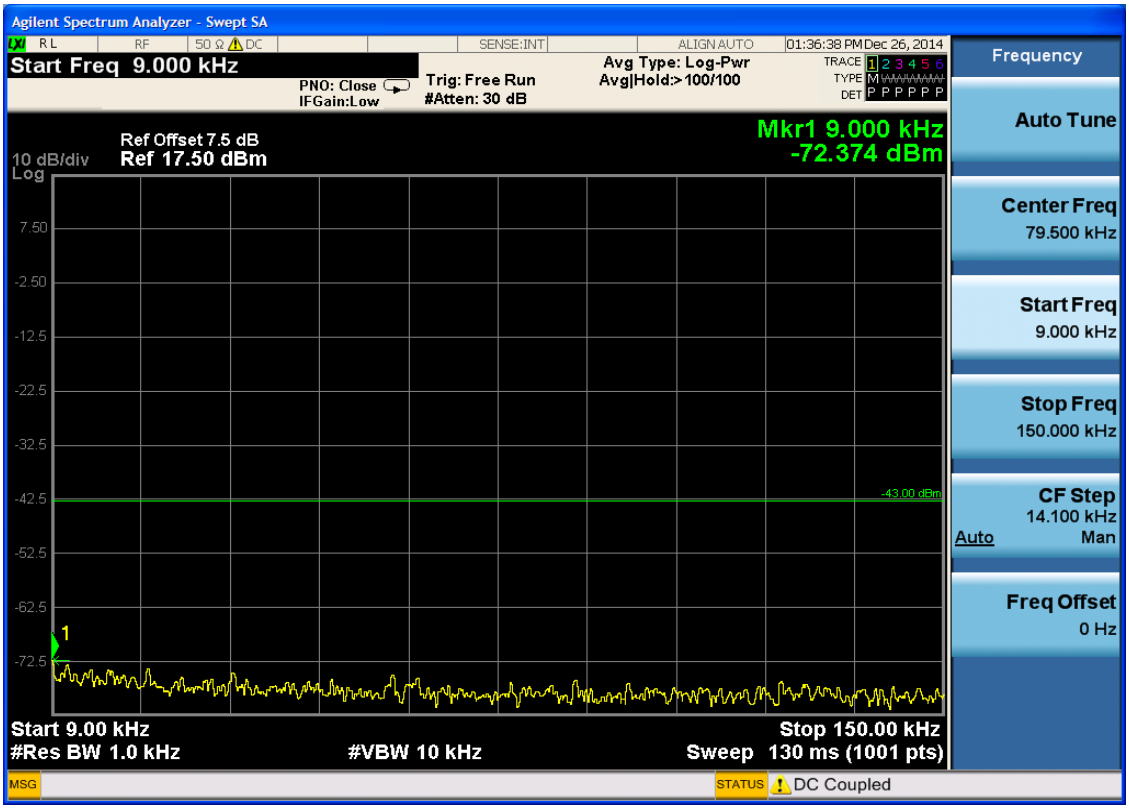
6.2.2 Test Band = WCDMA1900

6.2.2.1 Test Mode = UMTS/TM1

6.2.2.1.1 Test Channel = LCH



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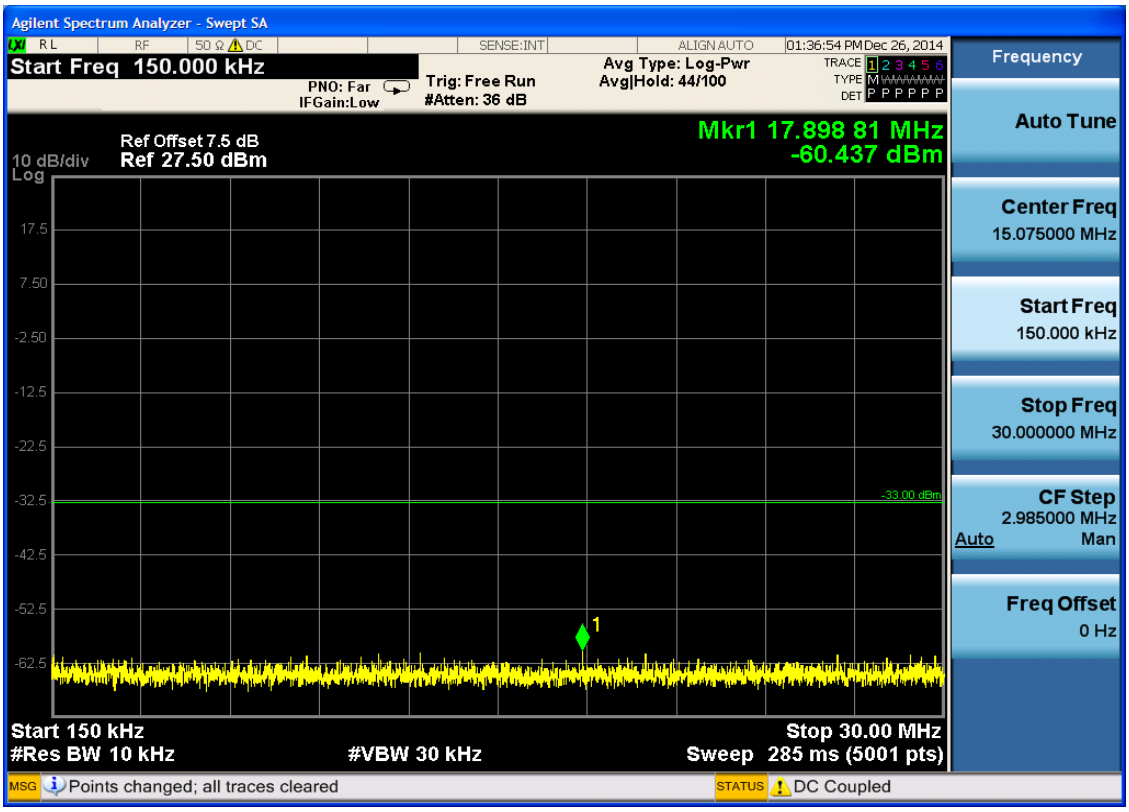
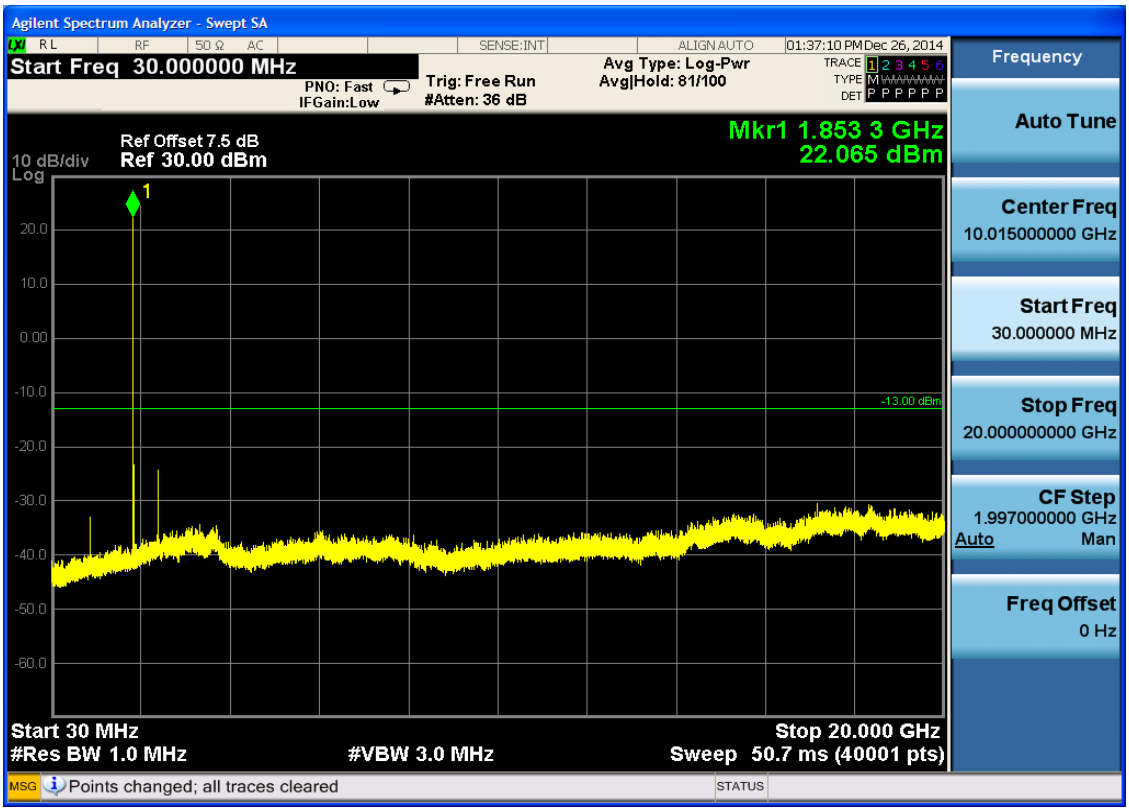

Agilent Spectrum Analyzer - Swept SA
Start Freq 150.000 kHz
PNO: Far
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: Log-Pwr
Avg|Hold: 44/100
01:36:54 PM Dec 26, 2014
Ref Offset 7.5 dB
10 dB/div
Ref 27.50 dBm
Log
Mkr1 17.898 81 MHz
-60.437 dBm
-33.00 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285 ms (5001 pts)
Points changed; all traces cleared
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz



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