



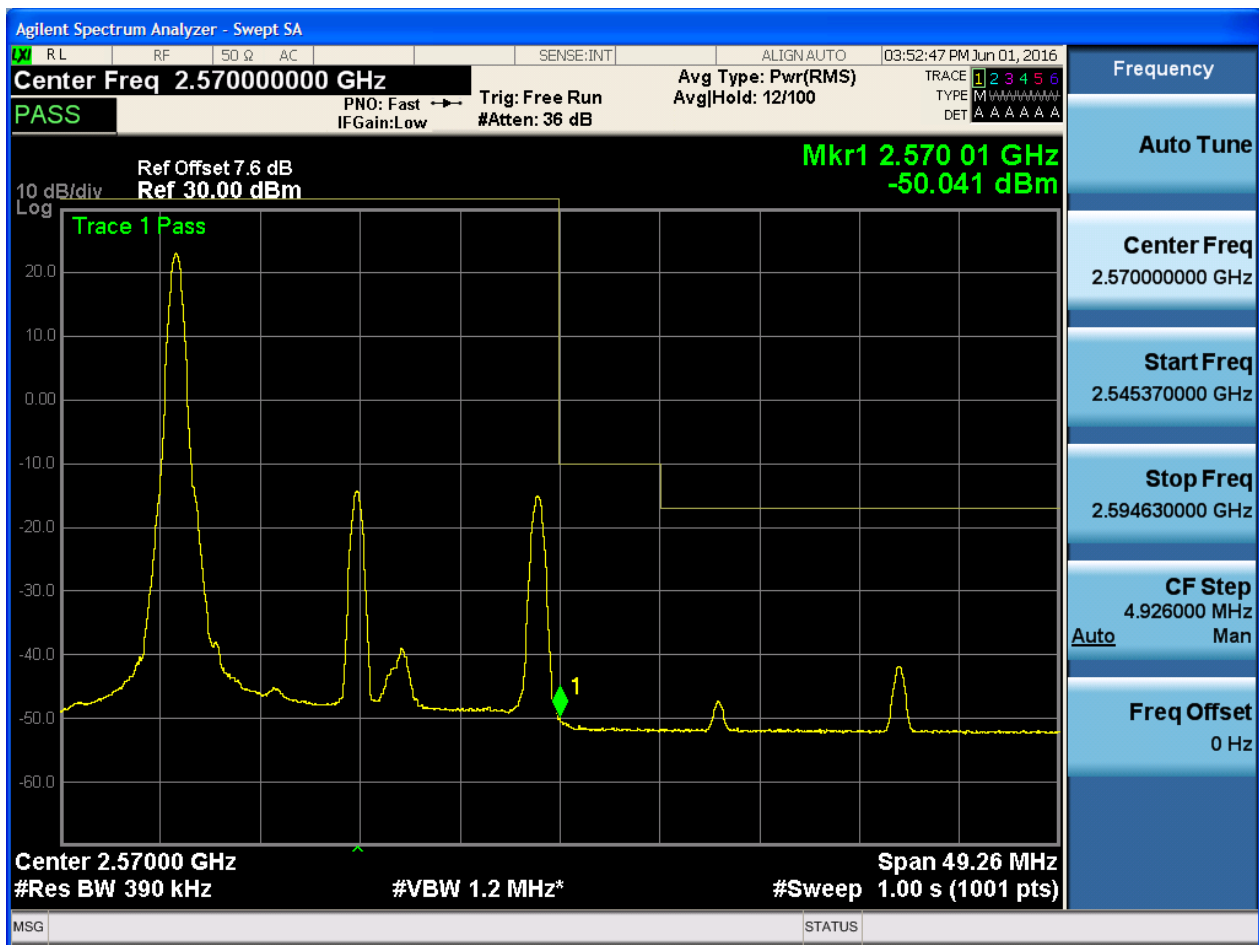
5.1.1.1.4.1.4 Test RB = RB100#0





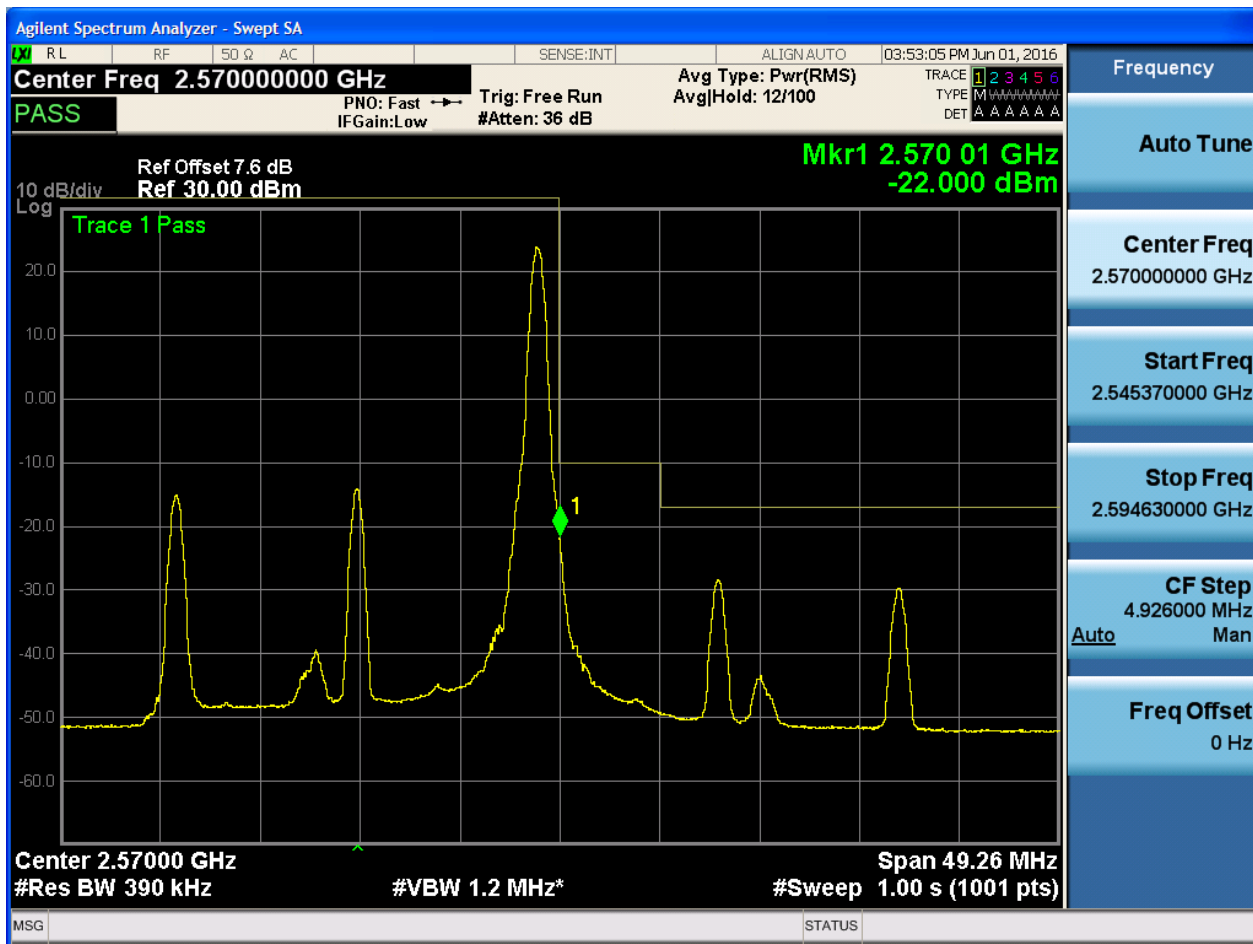
5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0





5.1.1.1.4.2.2 Test RB = RB1#99





5.1.1.1.4.2.3 Test RB = RB50#25





5.1.1.1.4.2.4 Test RB = RB100#0



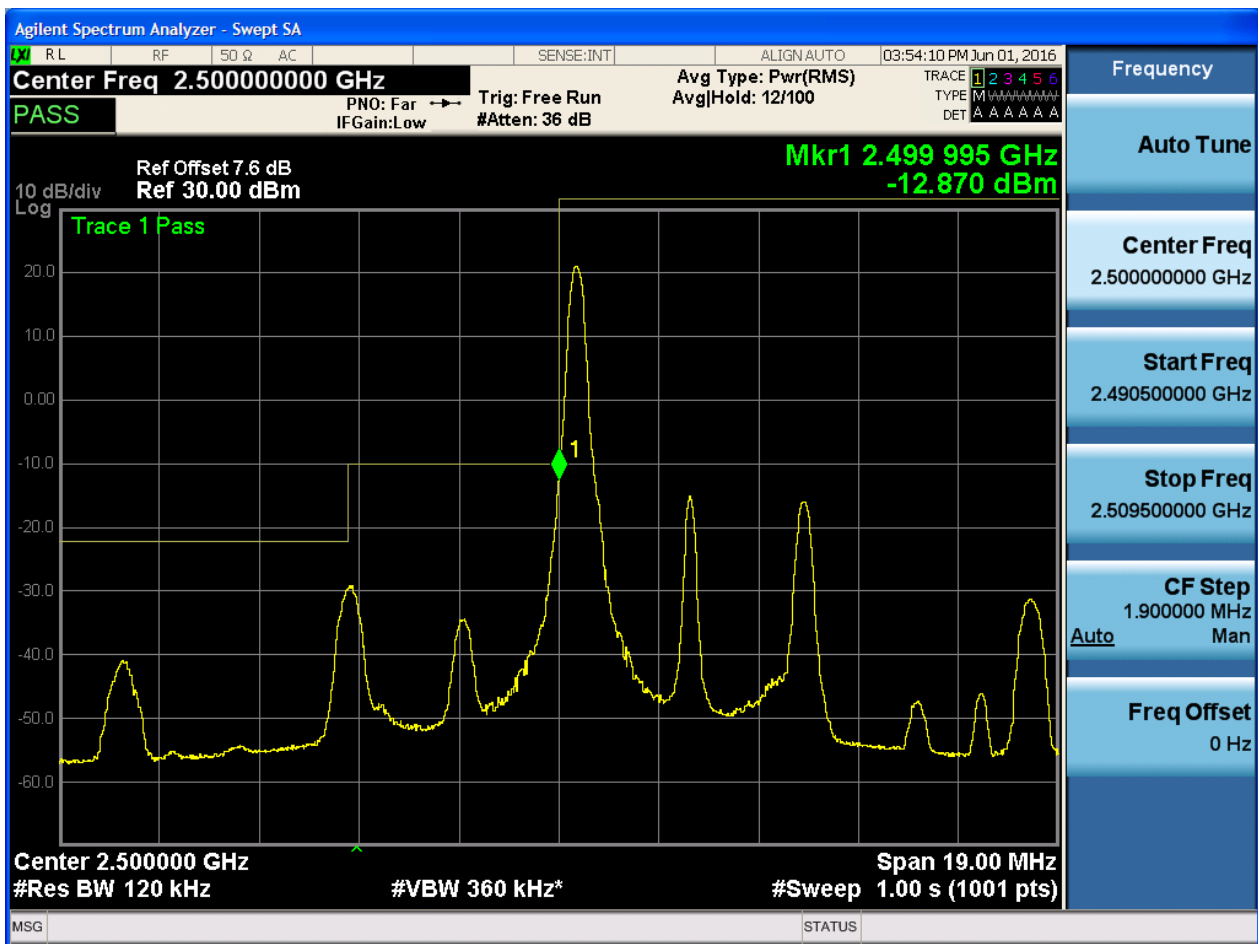


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 5

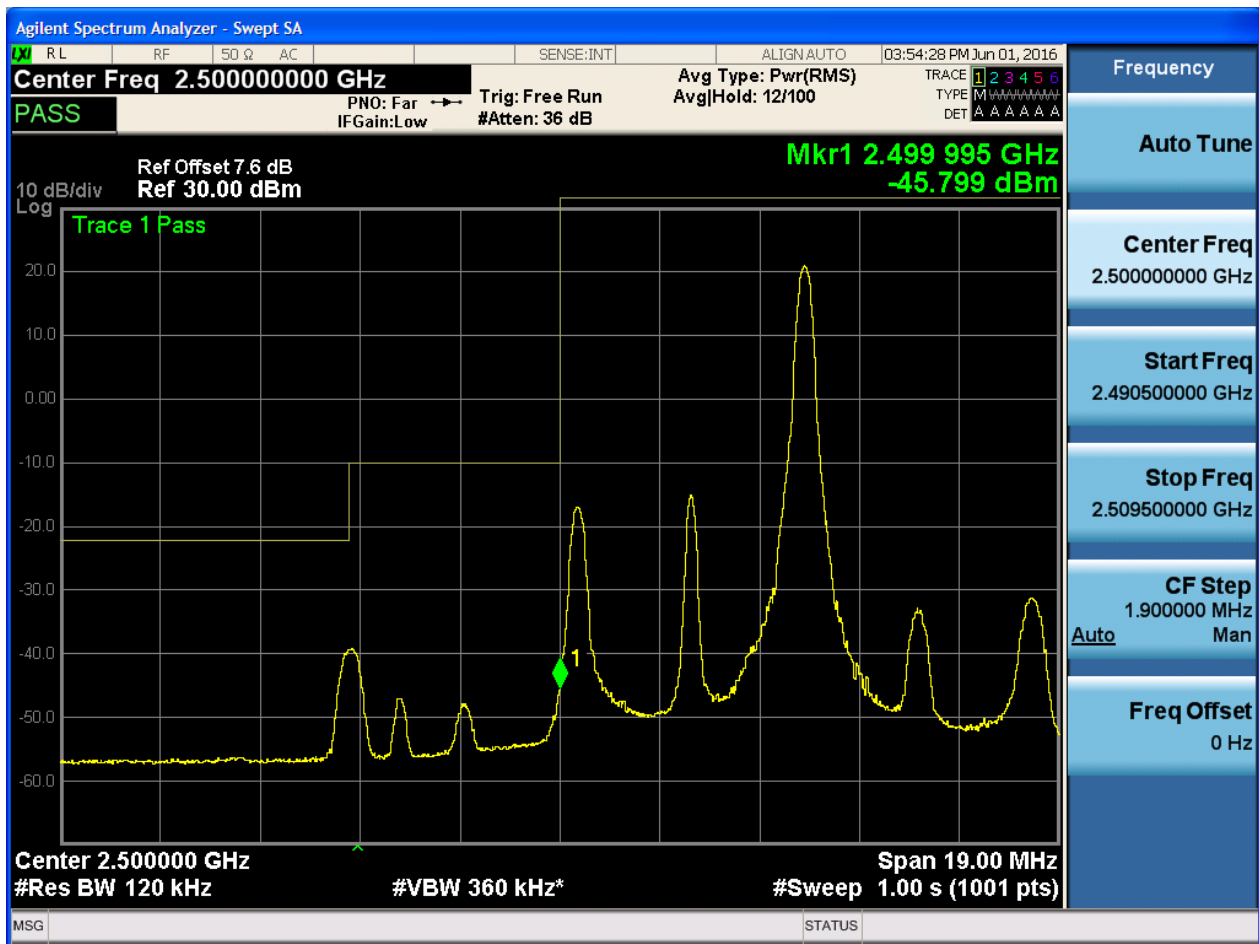
5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0



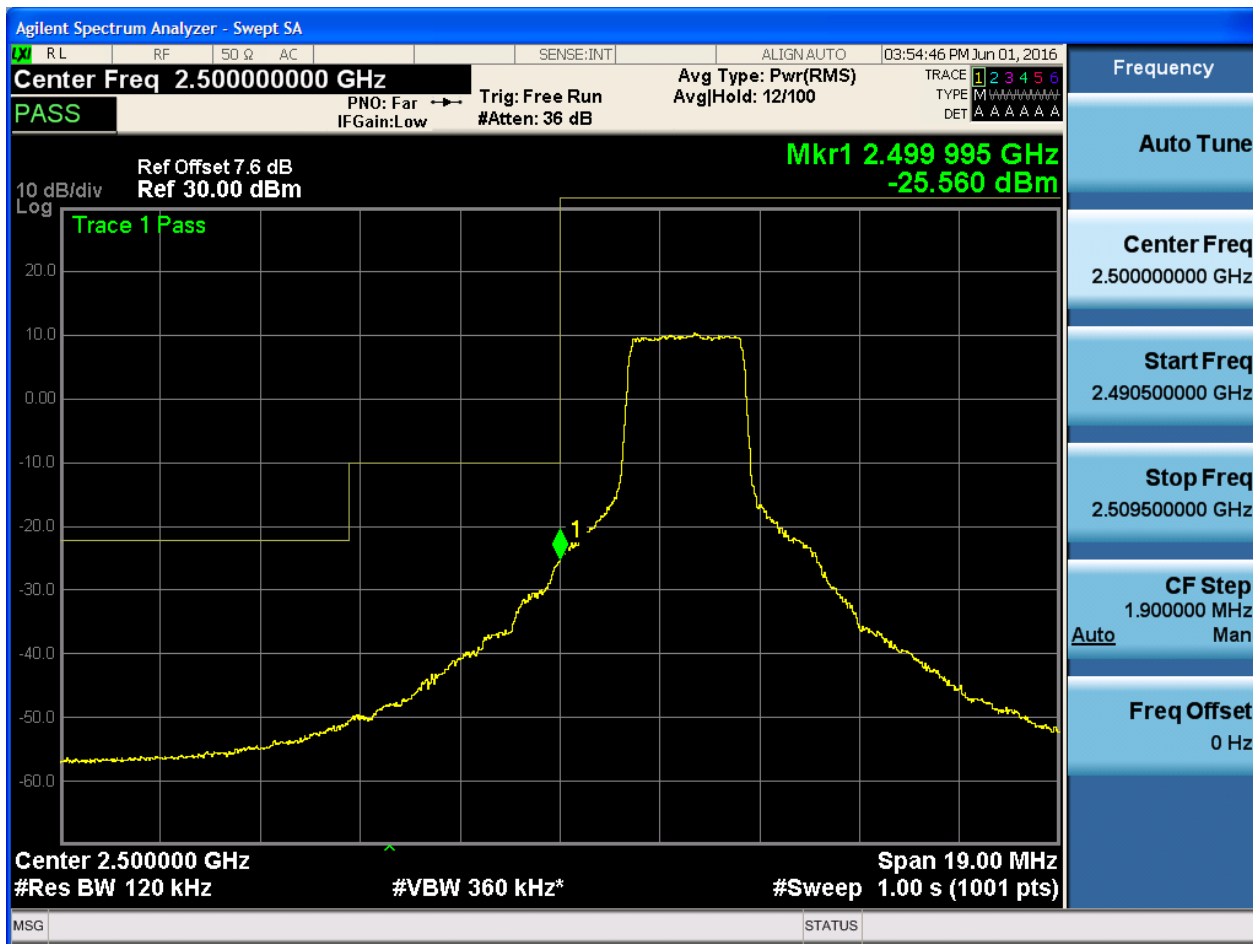


5.1.1.2.1.1.2 Test RB = RB1#24





5.1.1.2.1.1.3 Test RB = RB12#6





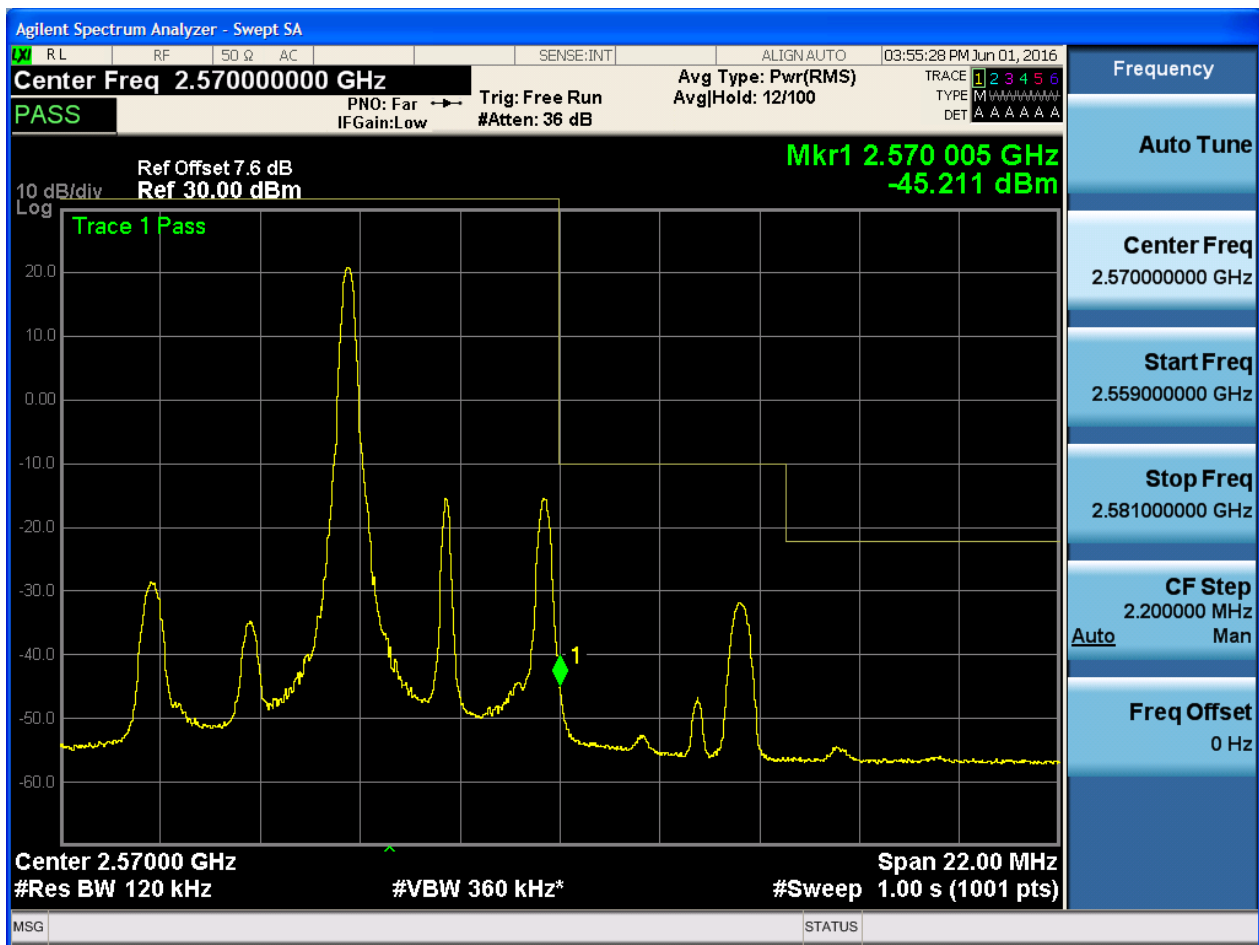
5.1.1.2.1.1.4 Test RB = RB25#0





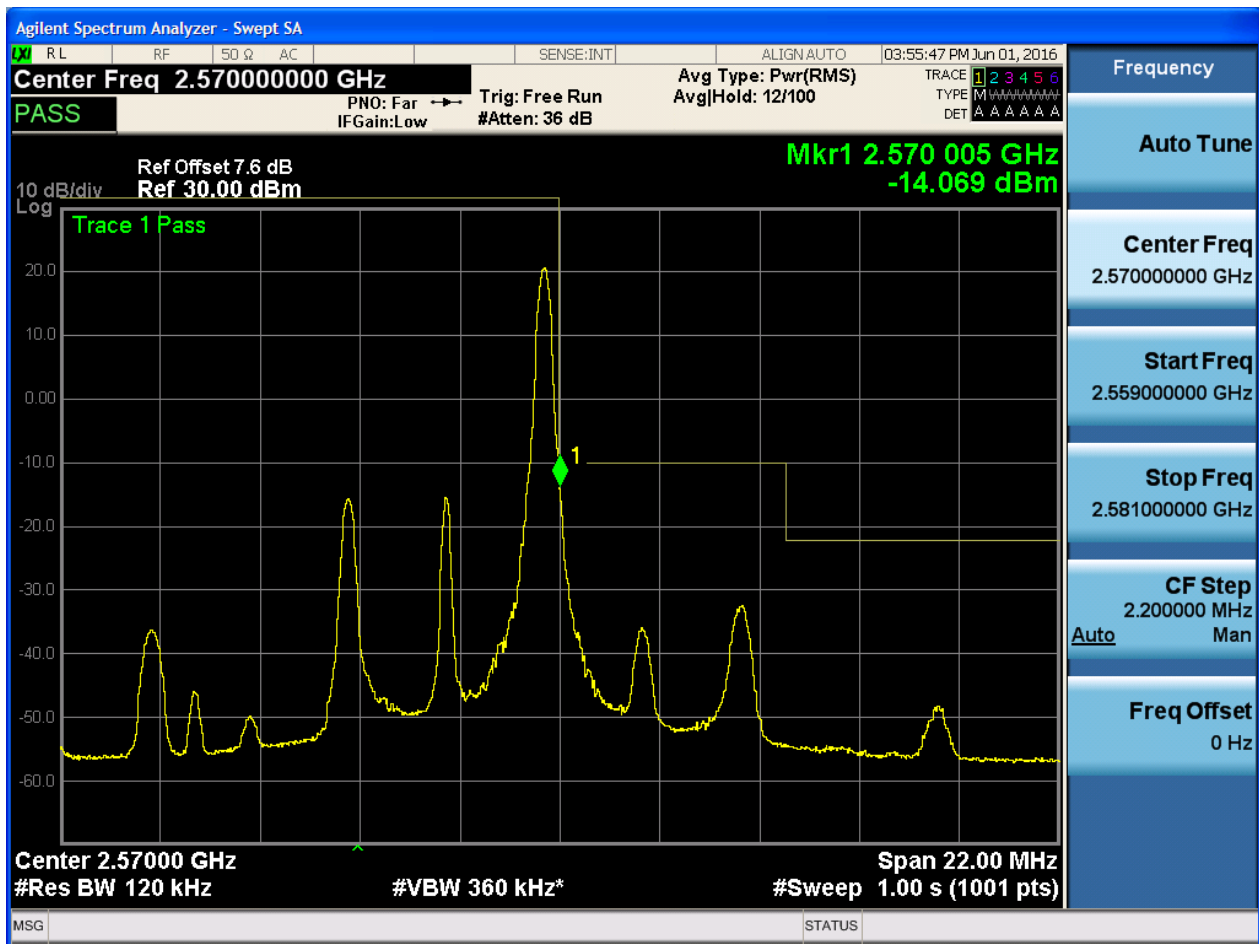
5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0



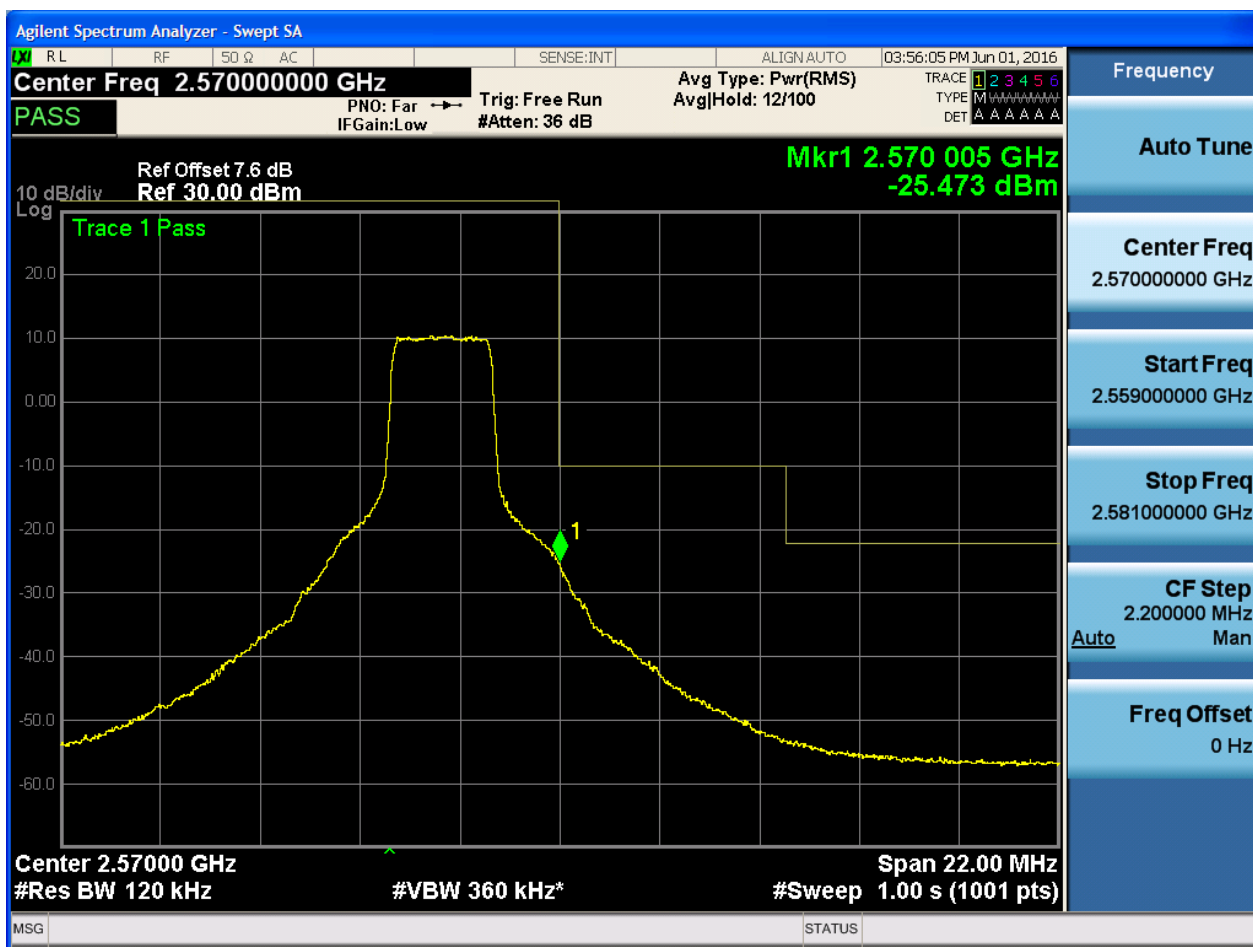


5.1.1.2.1.2.2 Test RB = RB1#24





5.1.1.2.1.2.3 Test RB = RB12#6





5.1.1.2.1.2.4 Test RB = RB25#0

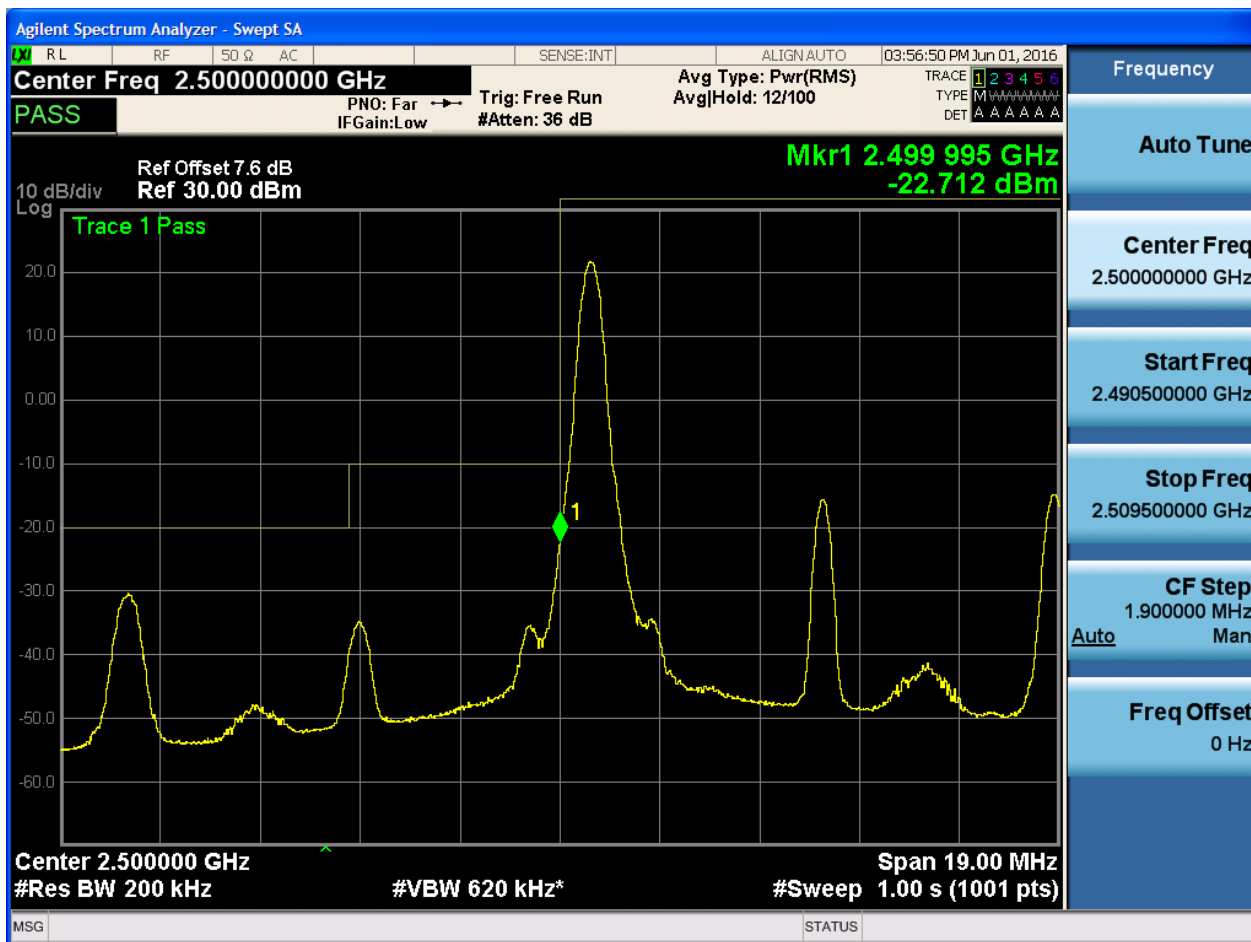




5.1.1.2.2 Test Bandwidth = 10

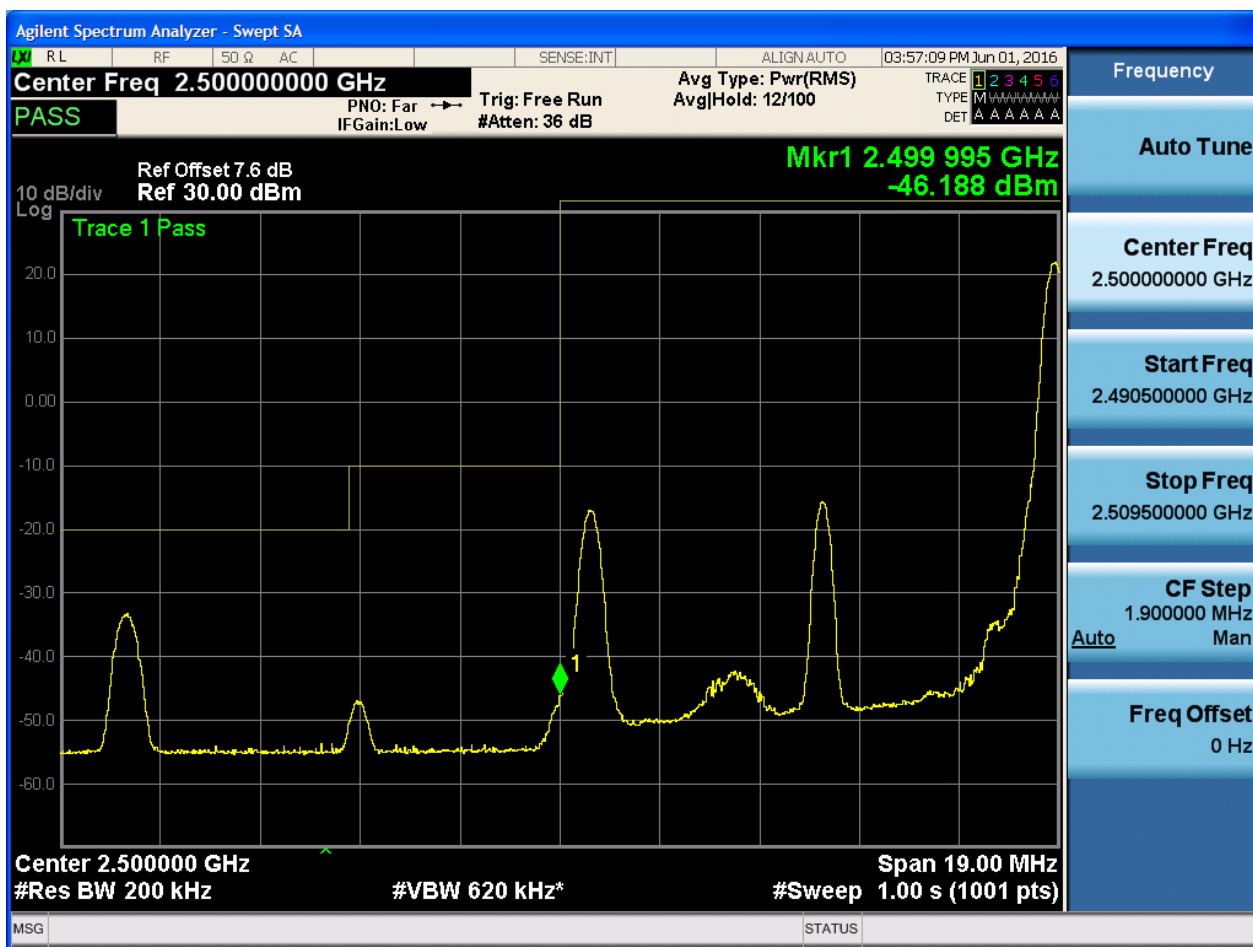
5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0





5.1.1.2.2.1.2 Test RB = RB1#49





5.1.1.2.2.1.3 Test RB = RB25#13





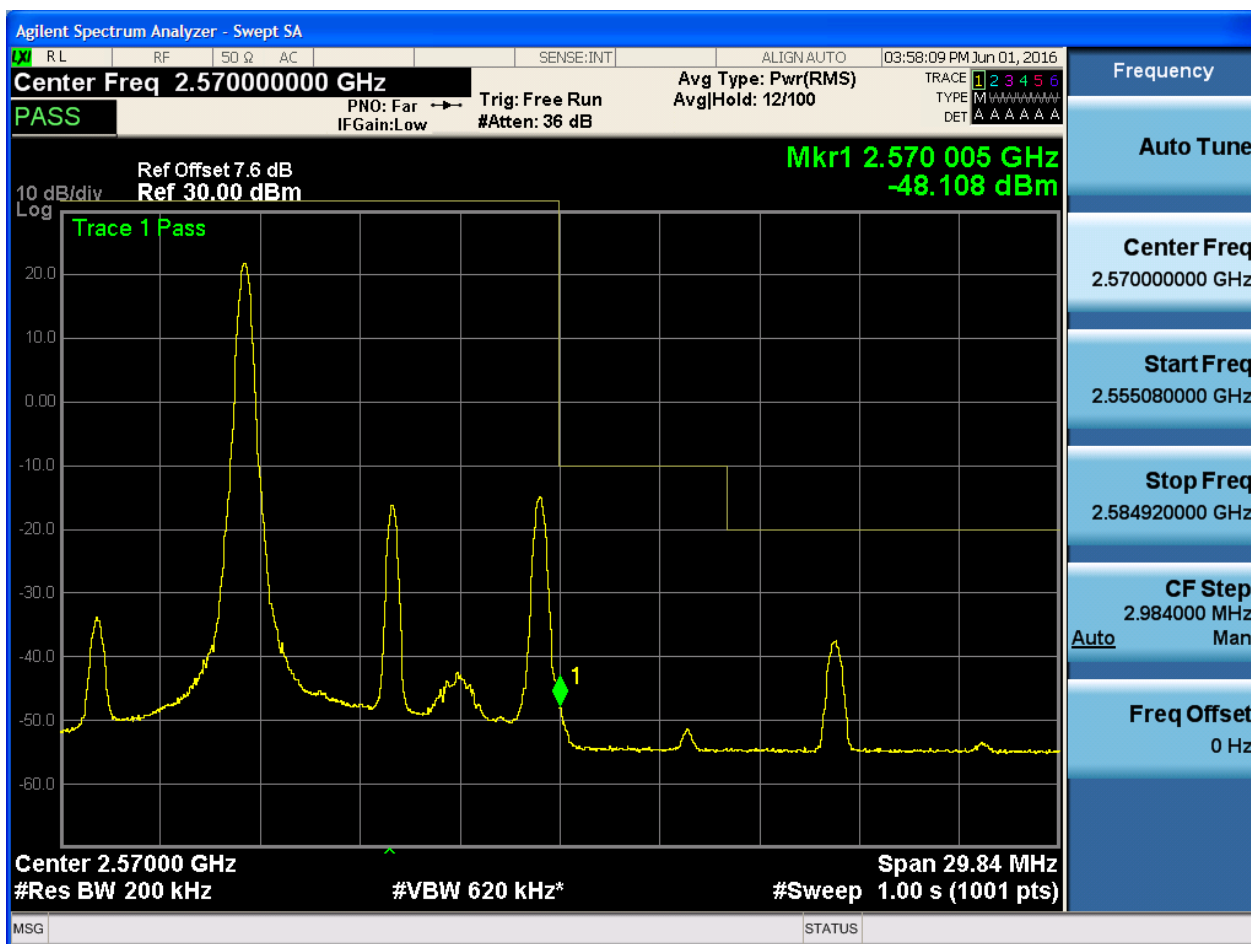
5.1.1.2.2.1.4 Test RB = RB50#0





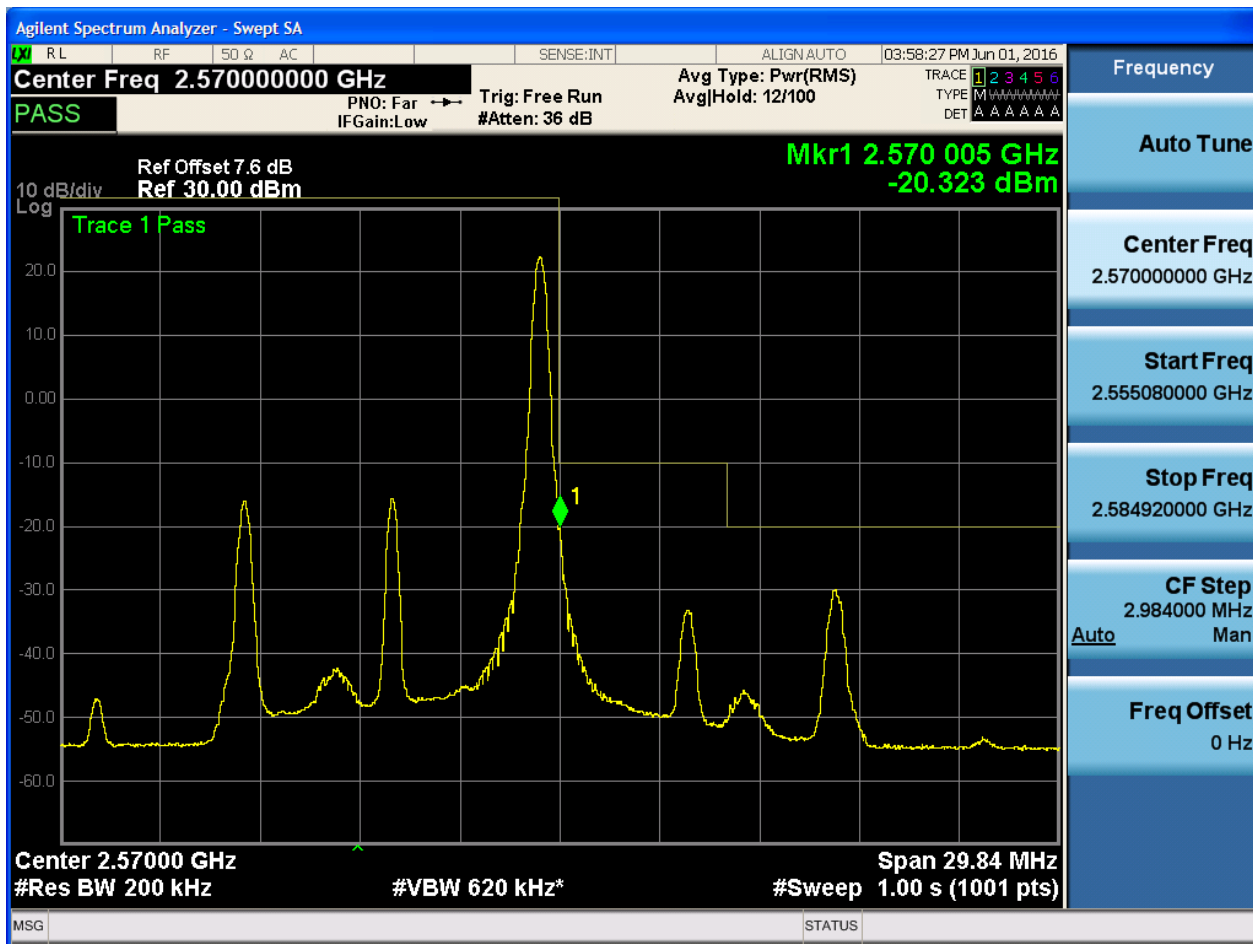
5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0



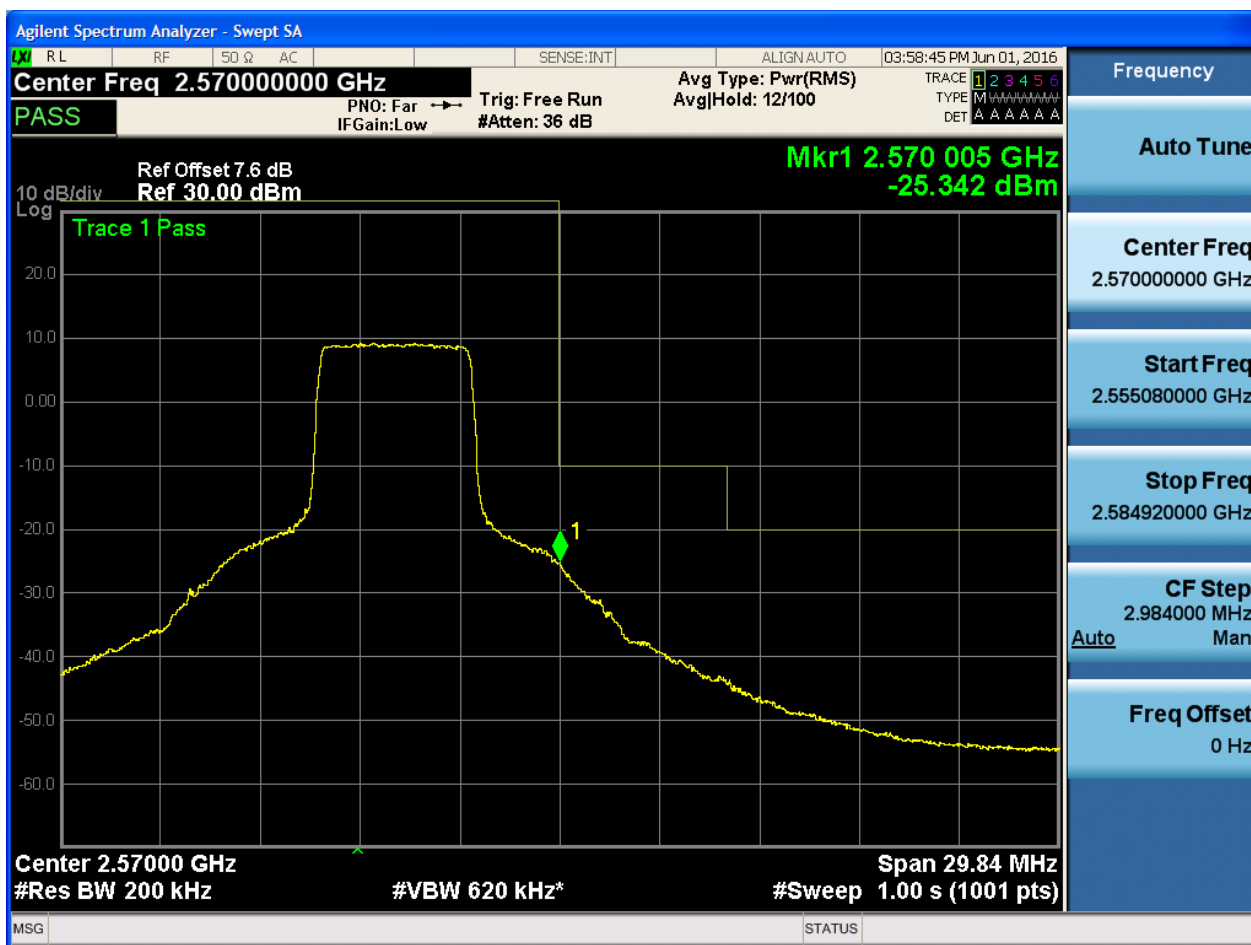


5.1.1.2.2.2 Test RB = RB1#49





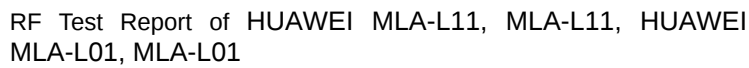
5.1.1.2.2.3 Test RB = RB25#13



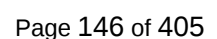


5.1.1.2.2.4 Test RB = RB50#0



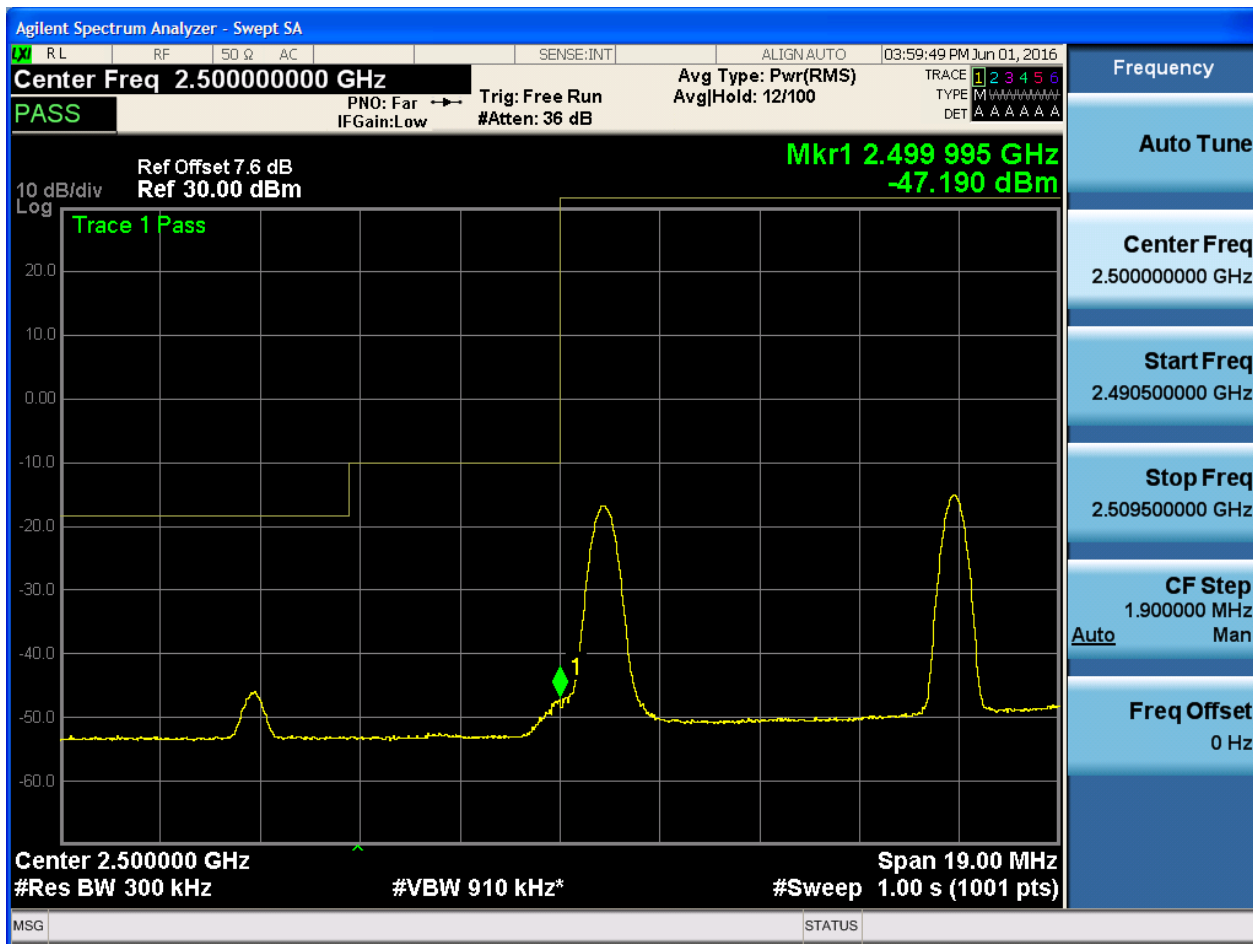


5.1.1.2.3.1.1 Test RB = RB1#0





5.1.1.2.3.1.2 Test RB = RB1#74





5.1.1.2.3.1.3 Test RB = RB36#18





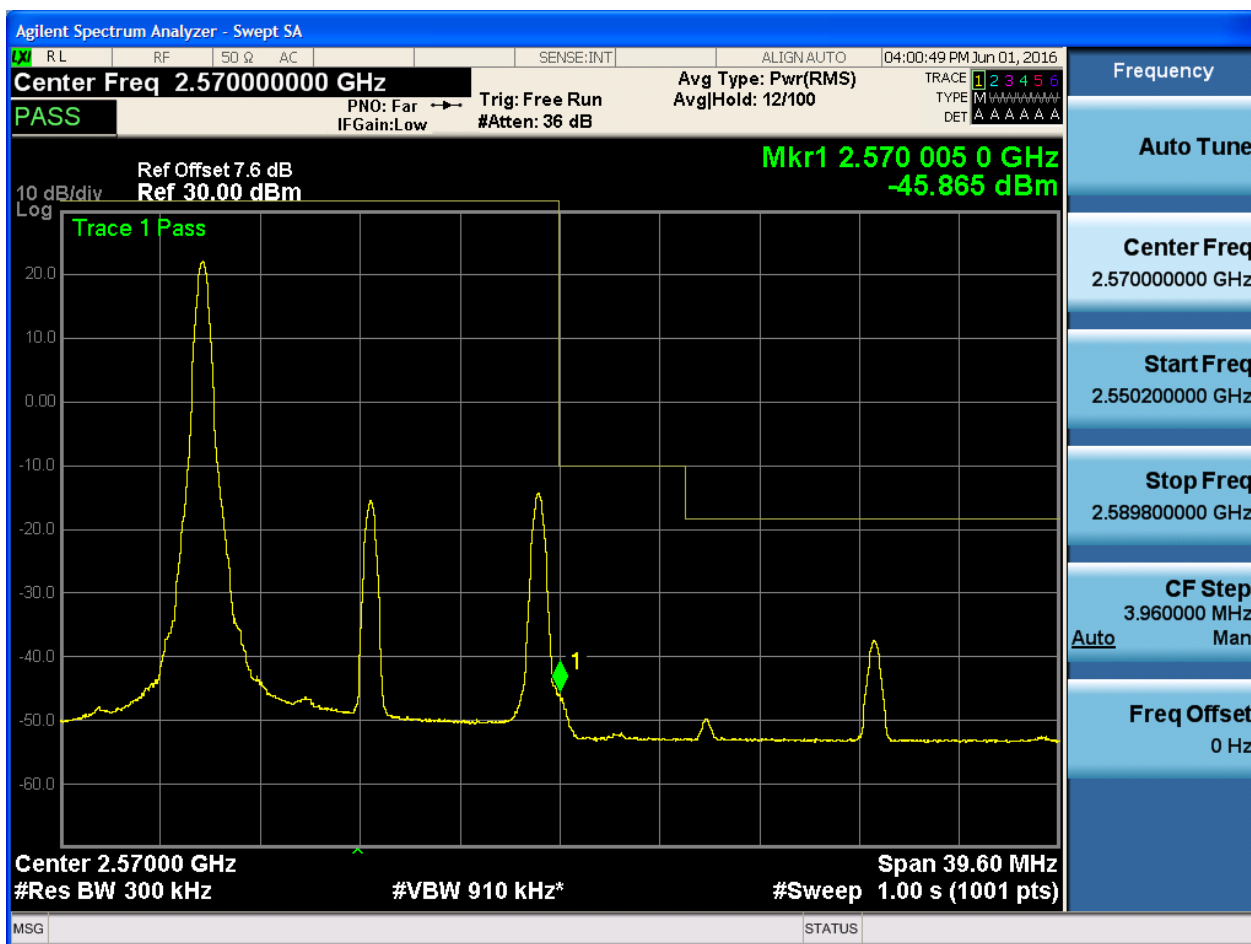
5.1.1.2.3.1.4 Test RB = RB75#0





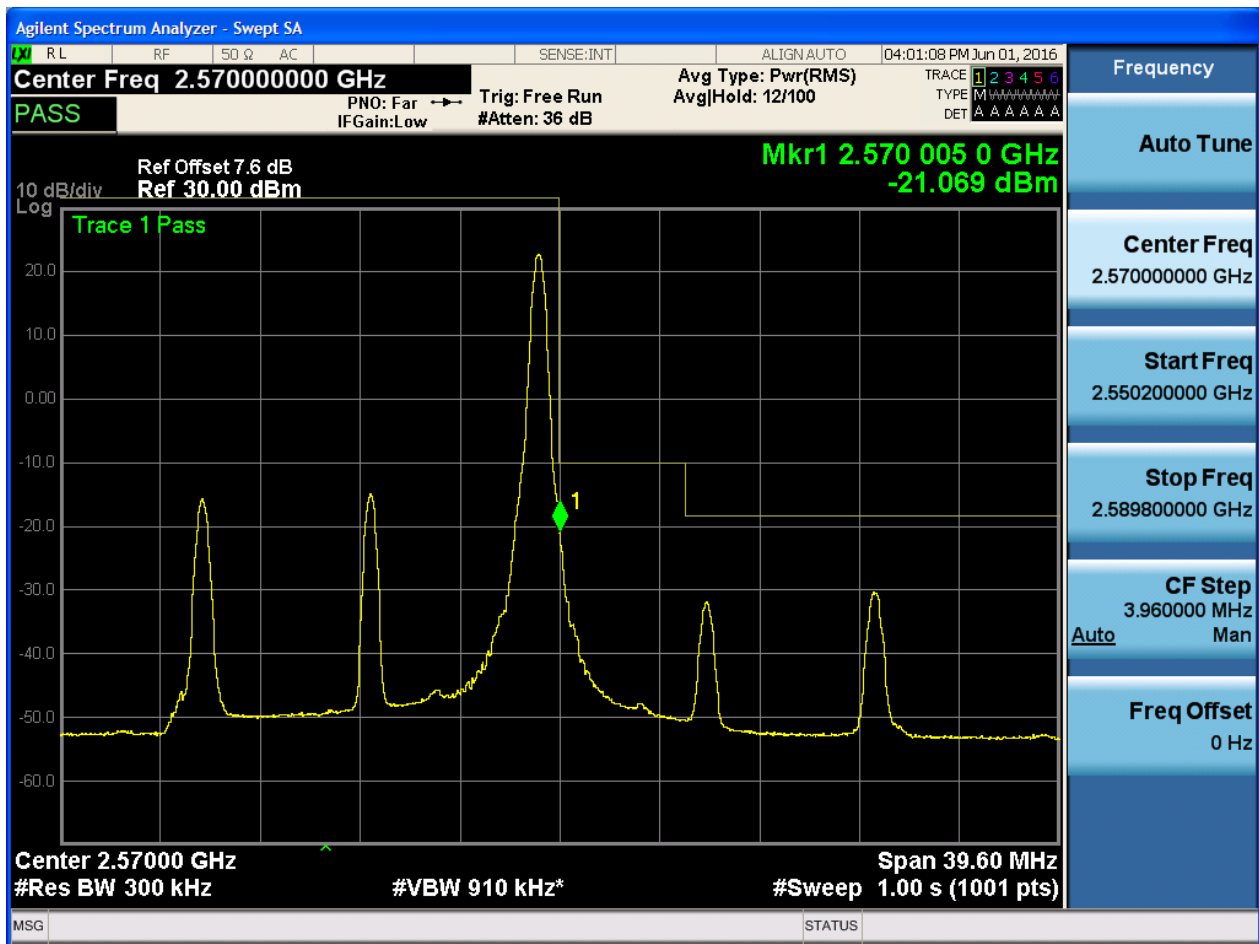
5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0



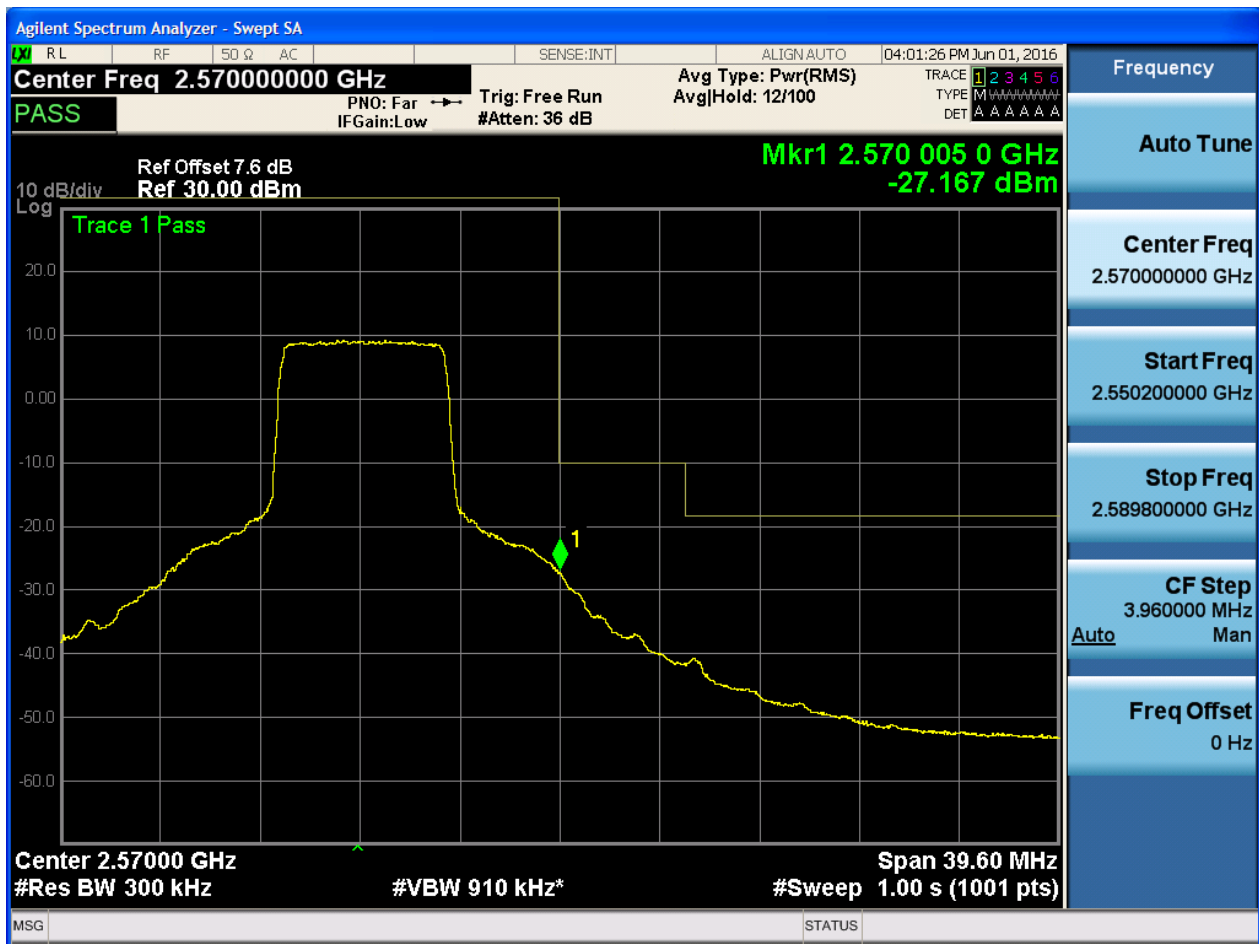


5.1.1.2.3.2.2 Test RB = RB1#74





5.1.1.2.3.2.3 Test RB = RB36#18





5.1.1.2.3.2.4 Test RB = RB75#0

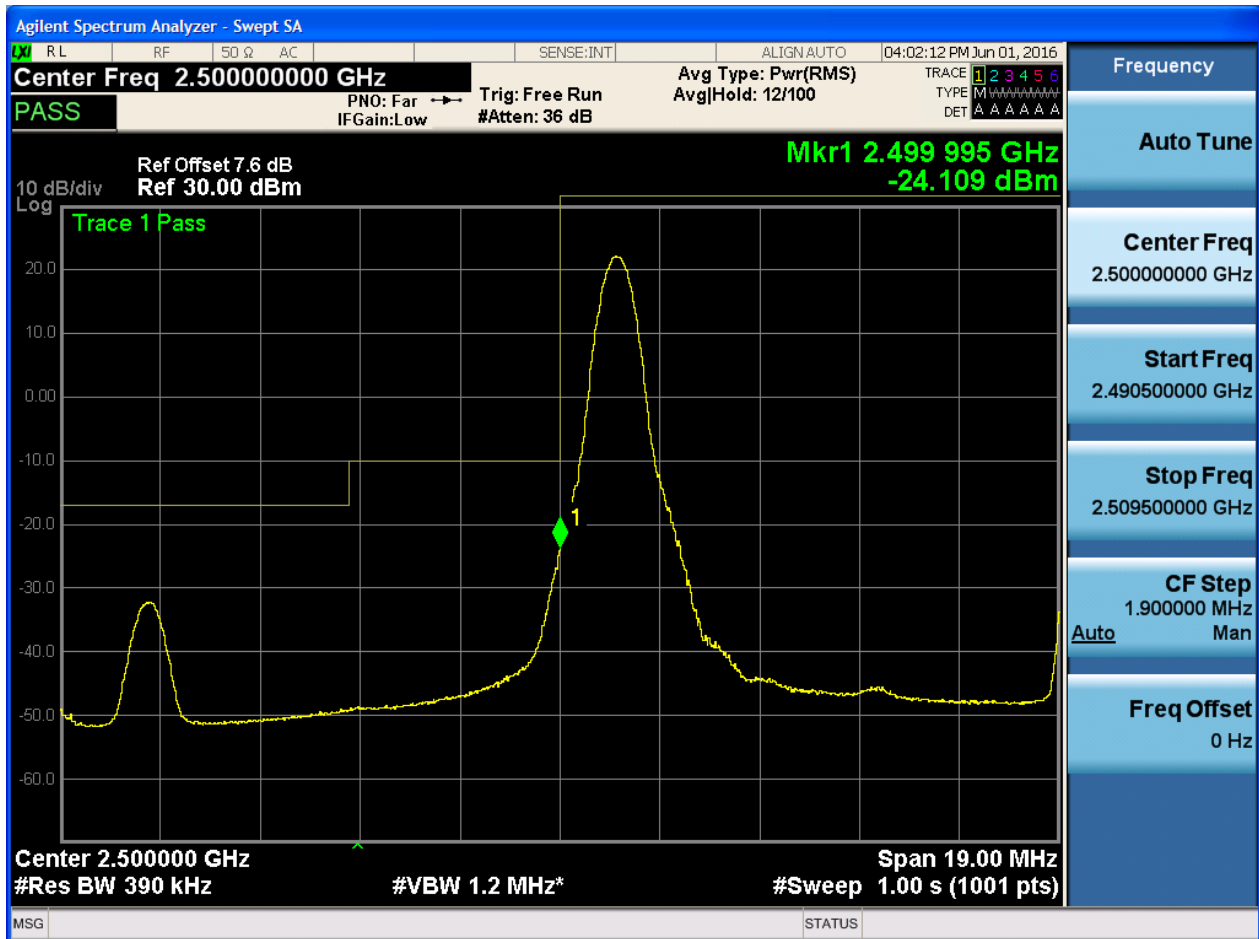




5.1.1.2.4 Test Bandwidth = 20

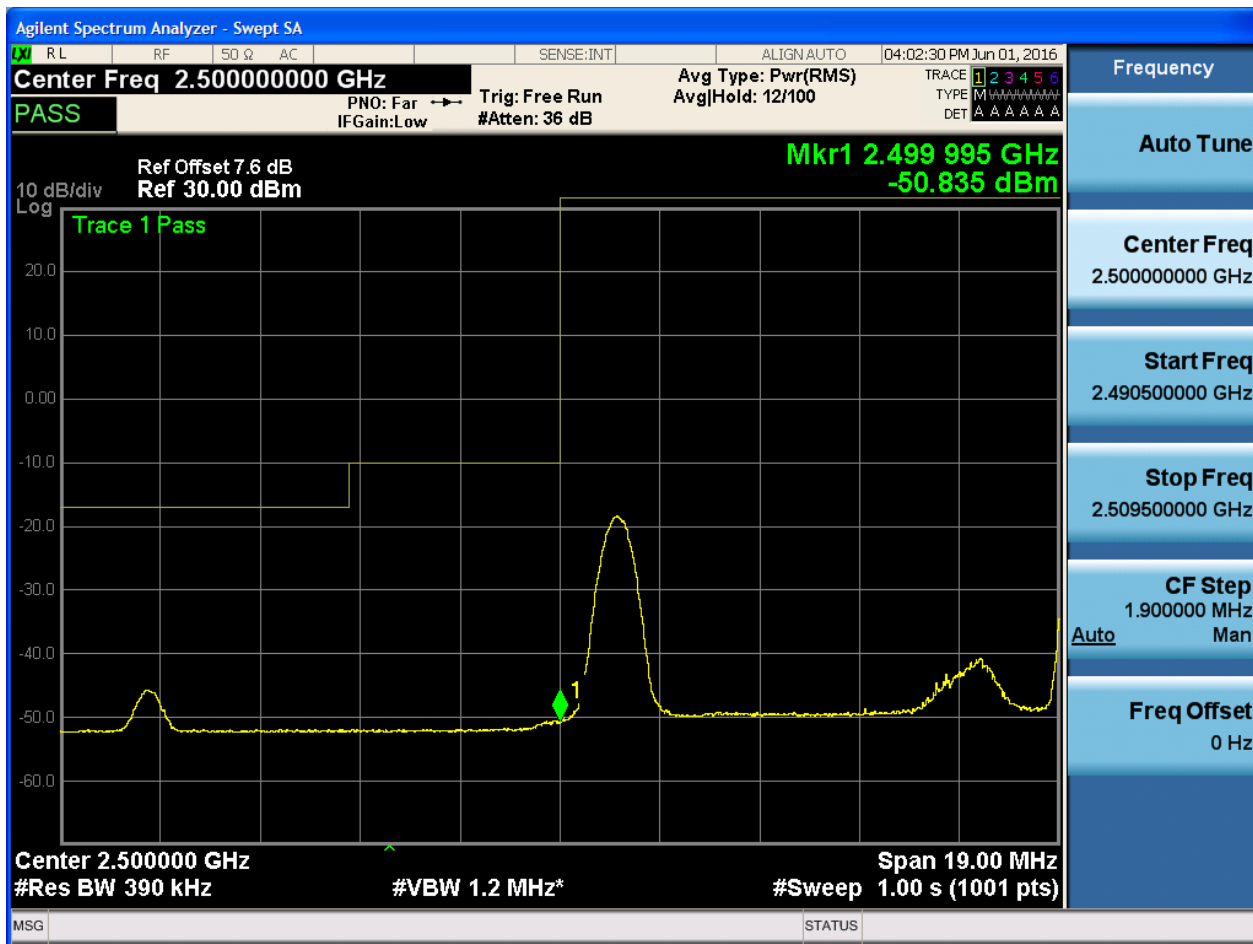
5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0





5.1.1.2.4.1.2 Test RB = RB1#99



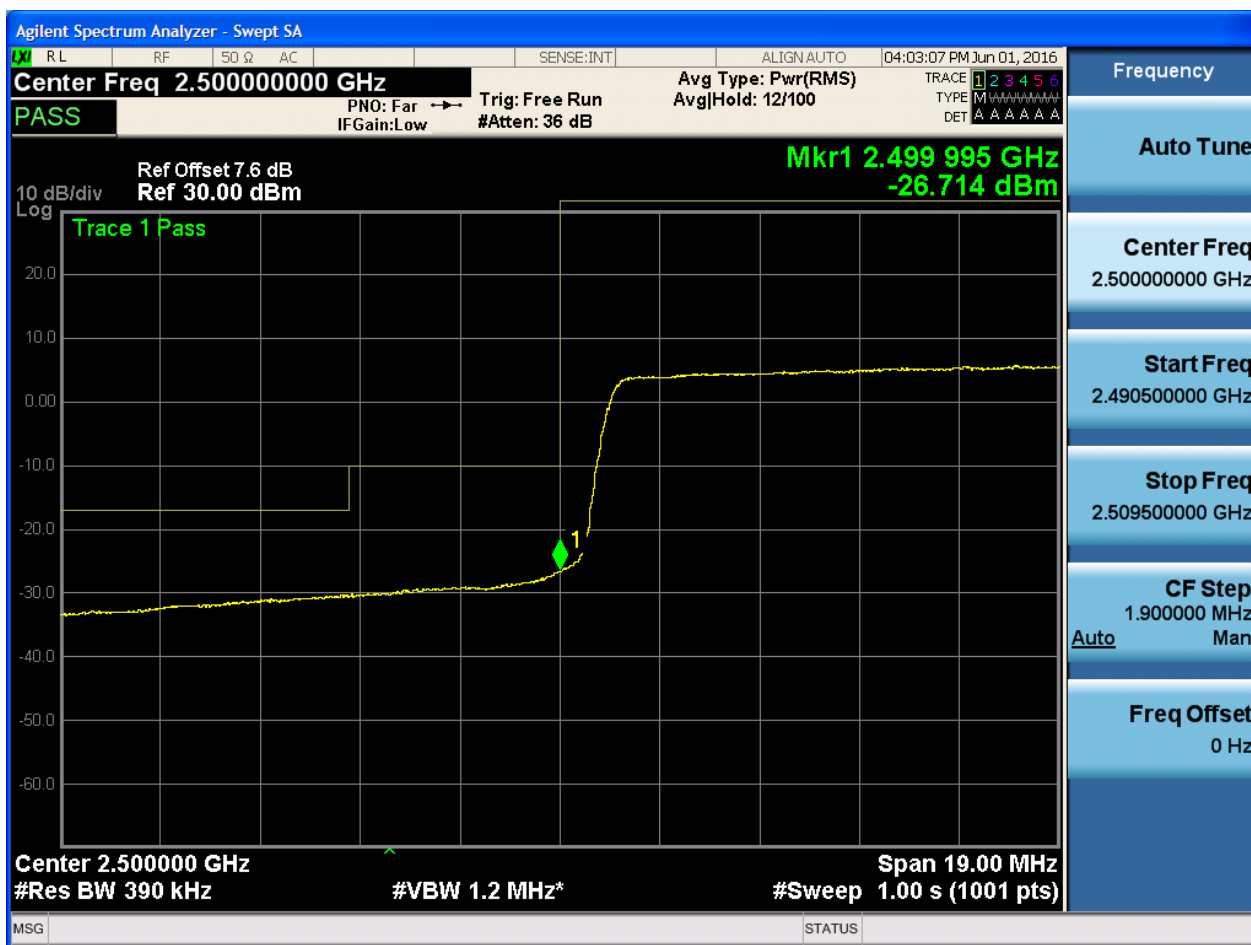


5.1.1.2.4.1.3 Test RB = RB50#25





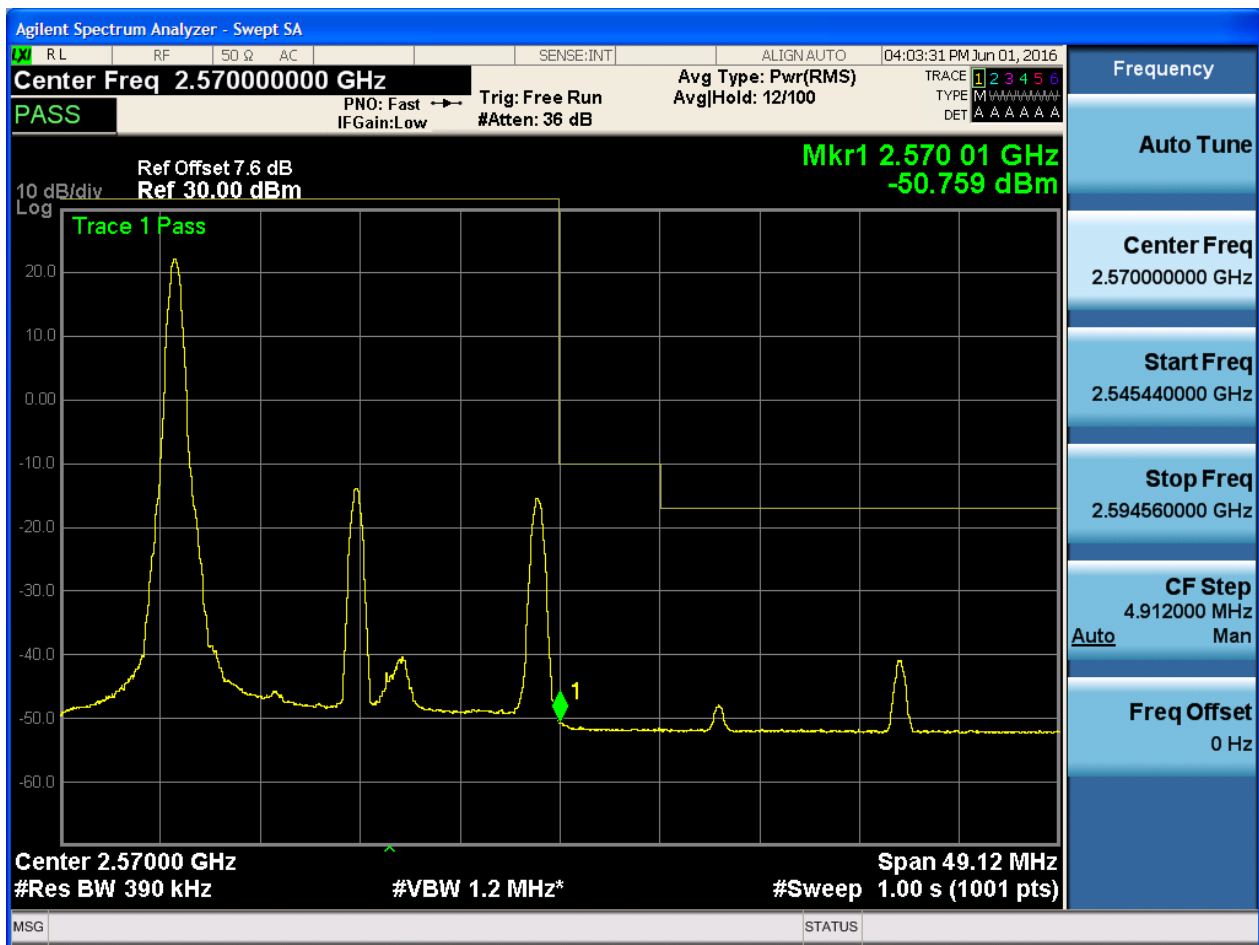
5.1.1.2.4.1.4 Test RB = RB100#0





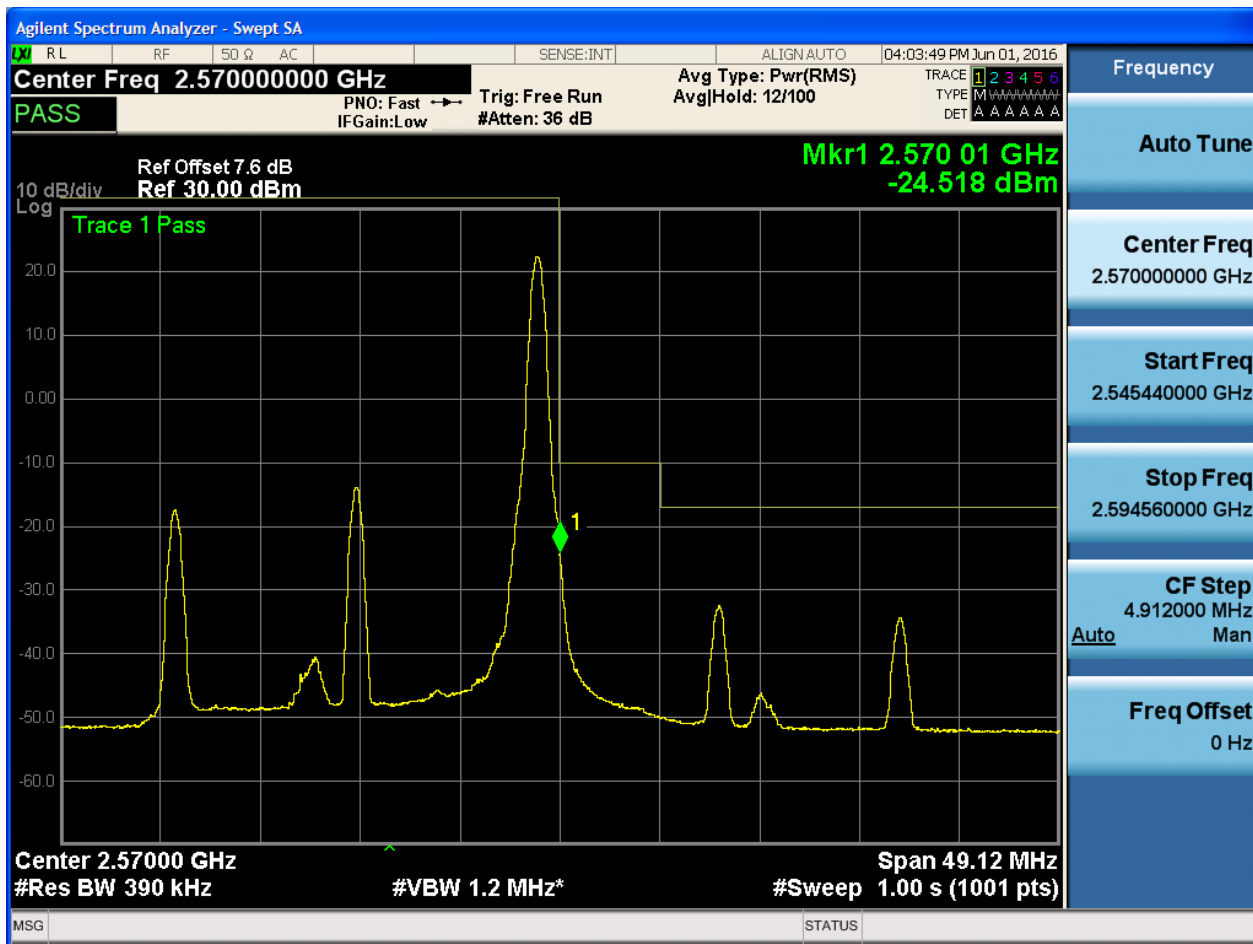
5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0



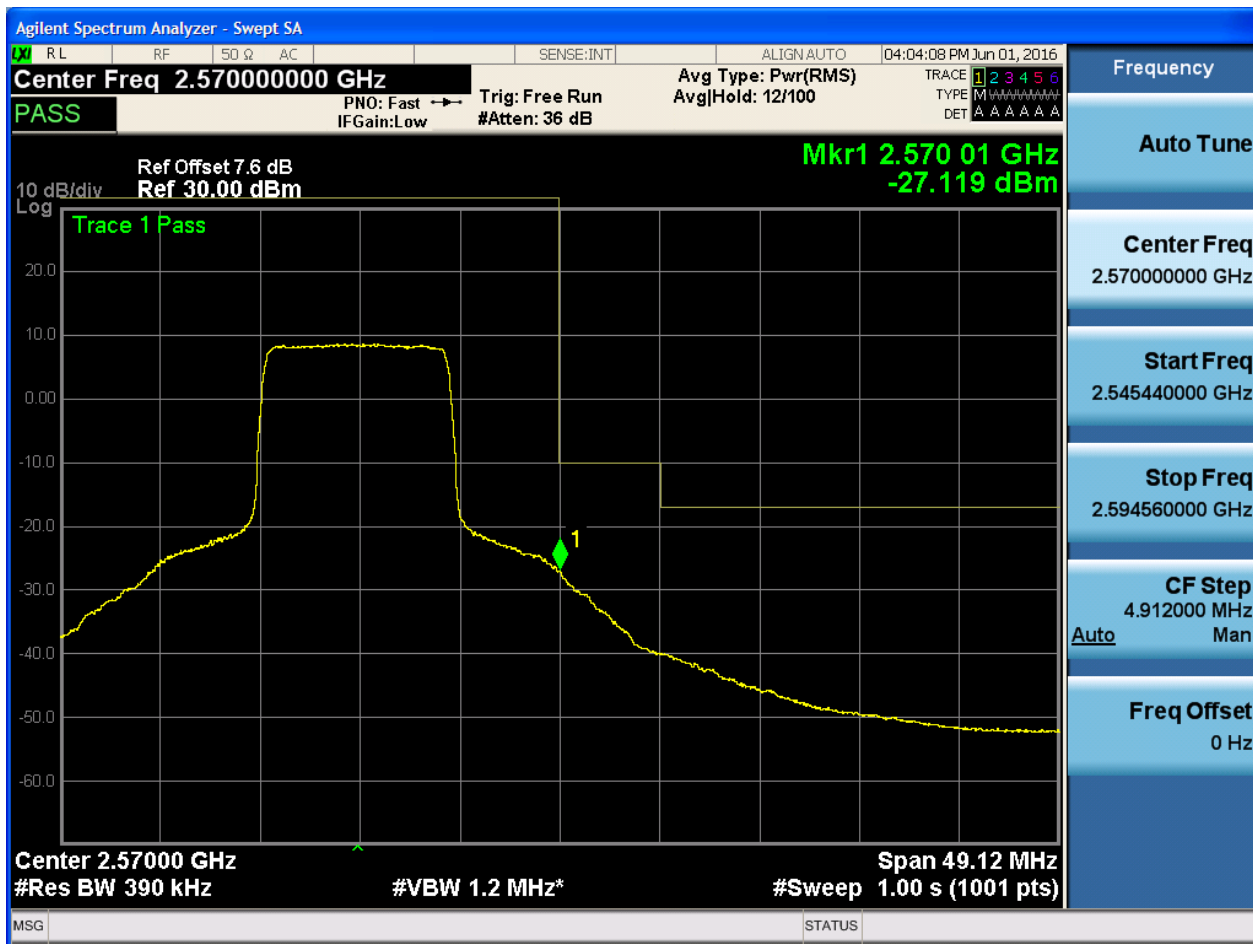


5.1.1.2.4.2.2 Test RB = RB1#99





5.1.1.2.4.2.3 Test RB = RB50#25





5.1.1.2.4.2.4 Test RB = RB100#0





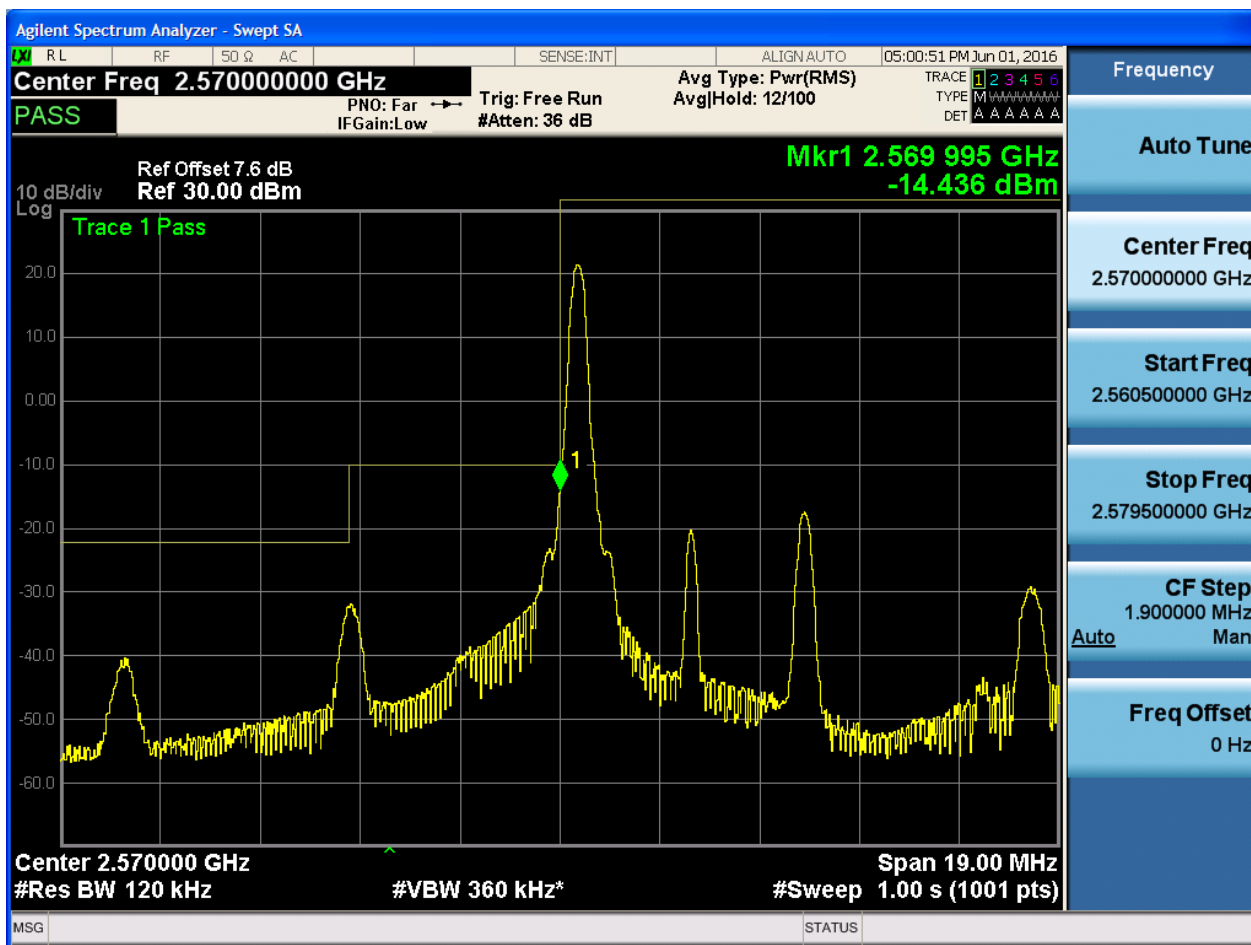
5.1.2 Test Band = BAND38

5.1.2.1 Test Mode = LTE/TM1

5.1.2.1.1 Test Bandwidth = 5

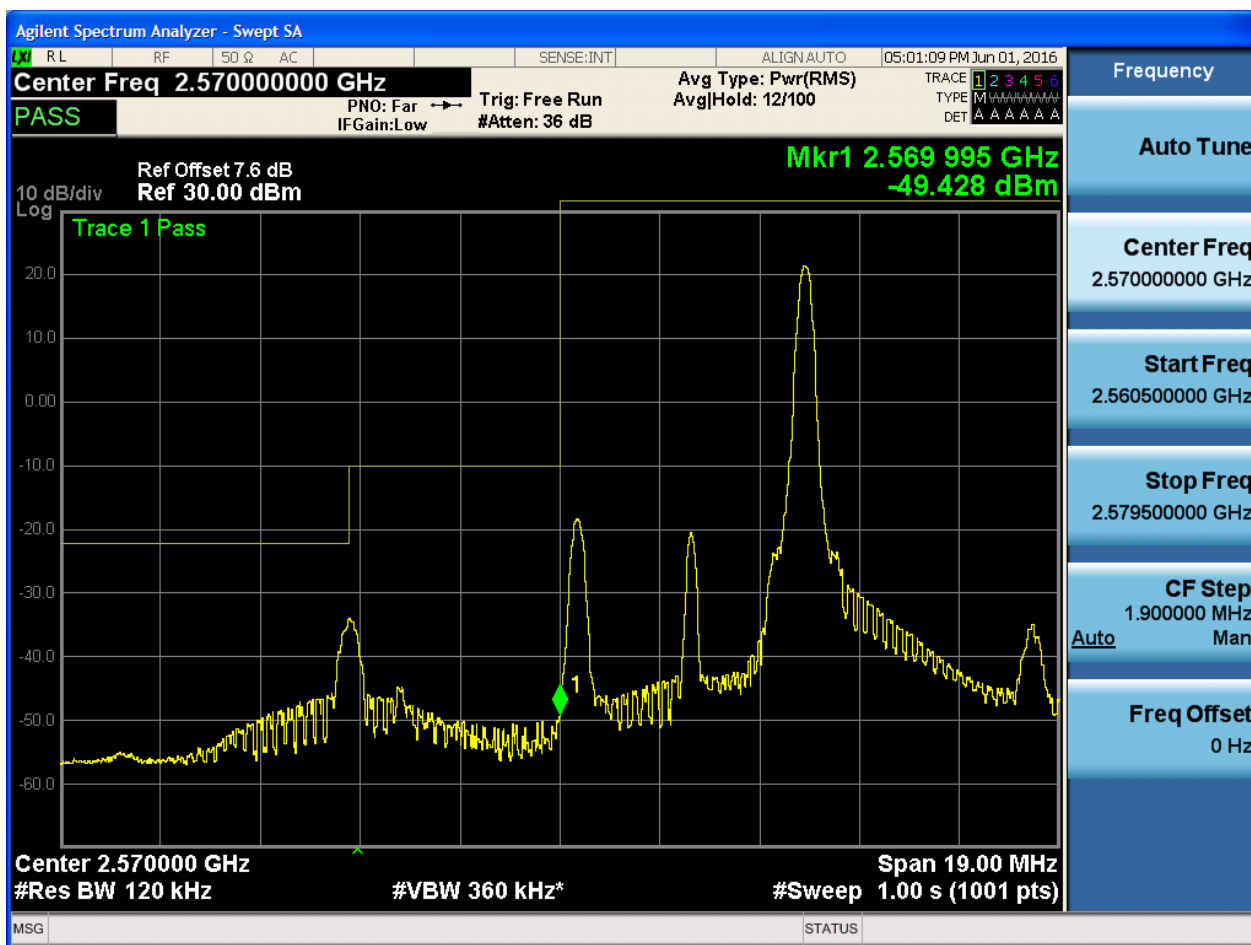
5.1.2.1.1.1 Test Channel = LCH

5.1.2.1.1.1.1 Test RB = RB1#0



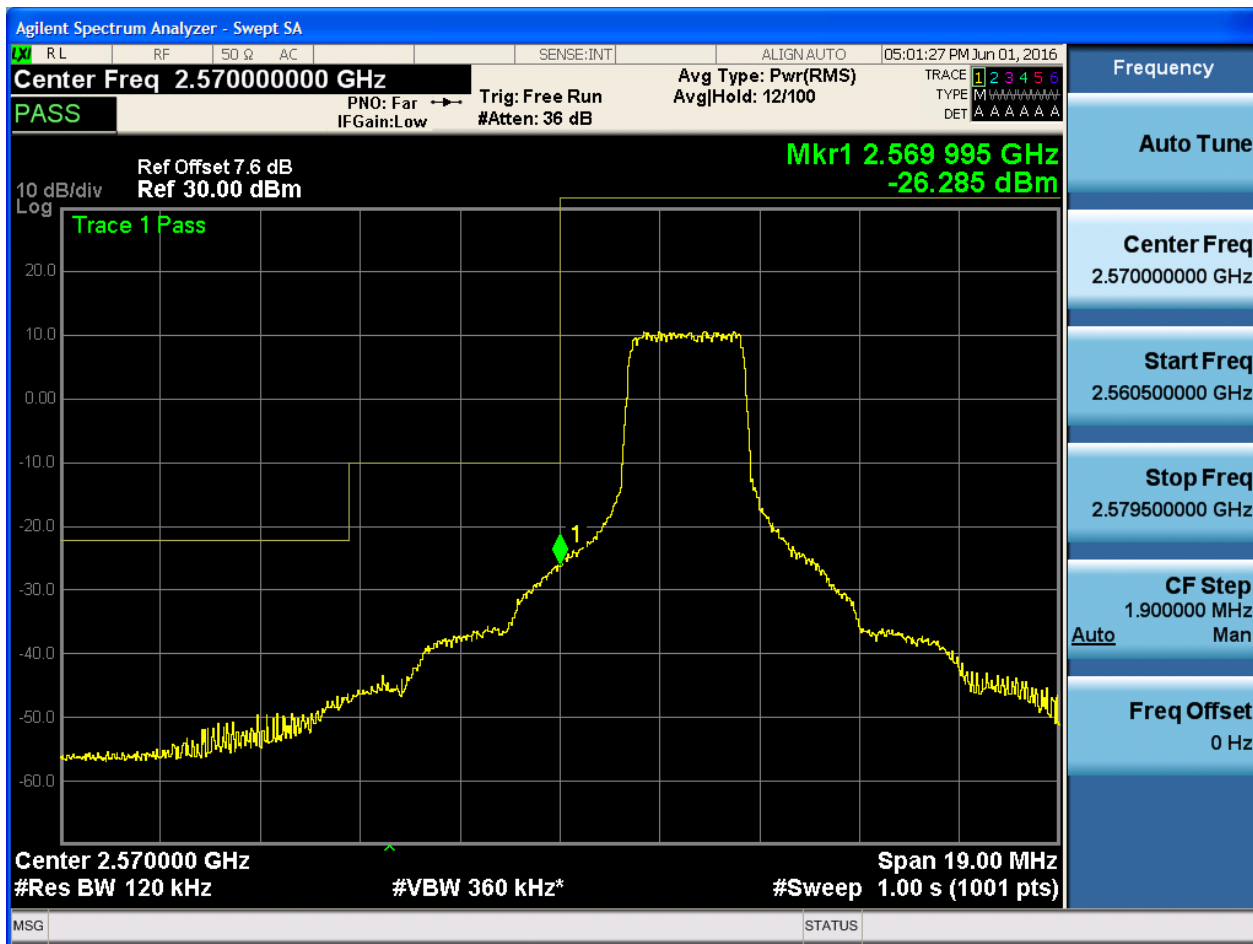


5.1.2.1.1.2 Test RB = RB1#24





5.1.2.1.1.3 Test RB = RB12#6





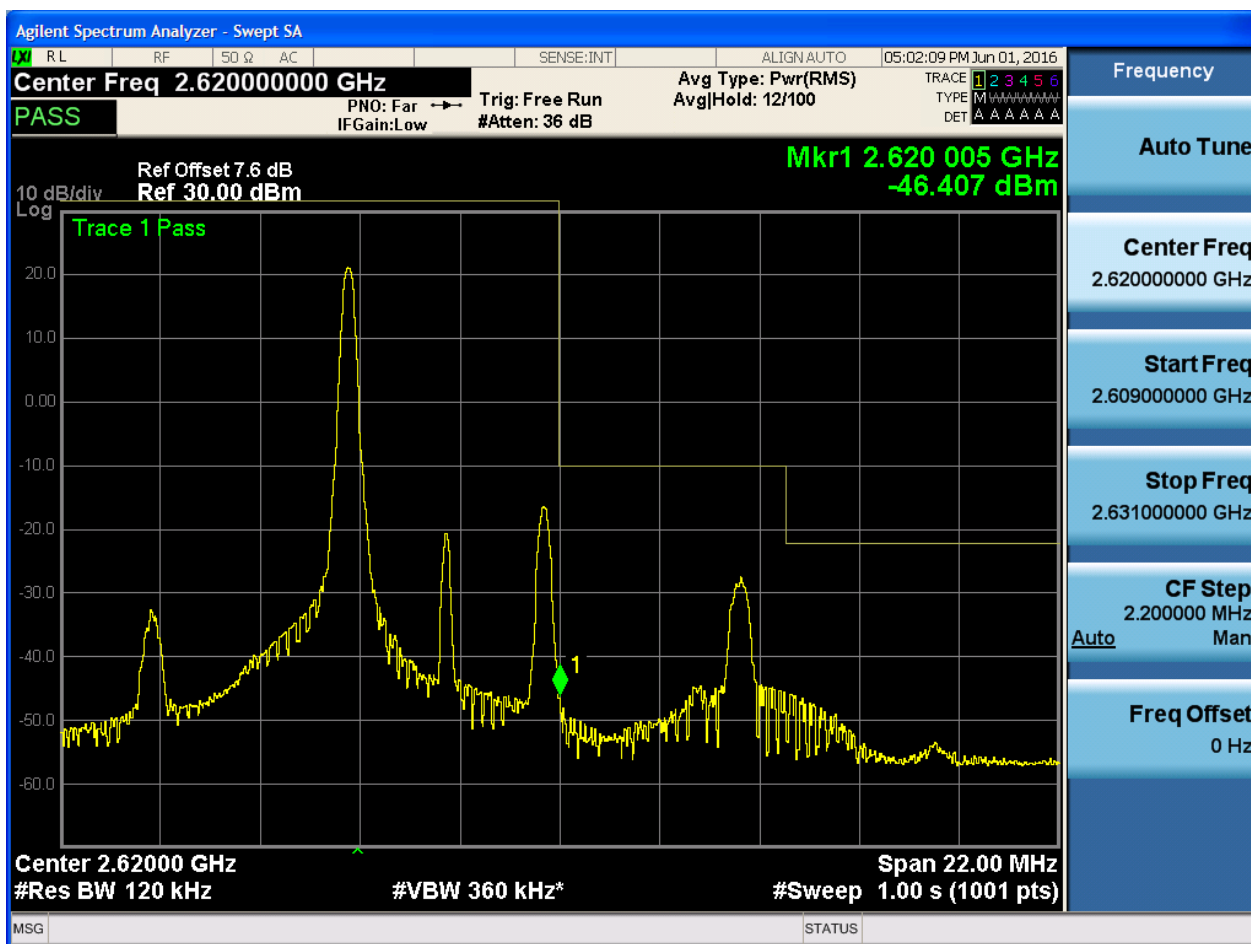
5.1.2.1.1.4 Test RB = RB25#0





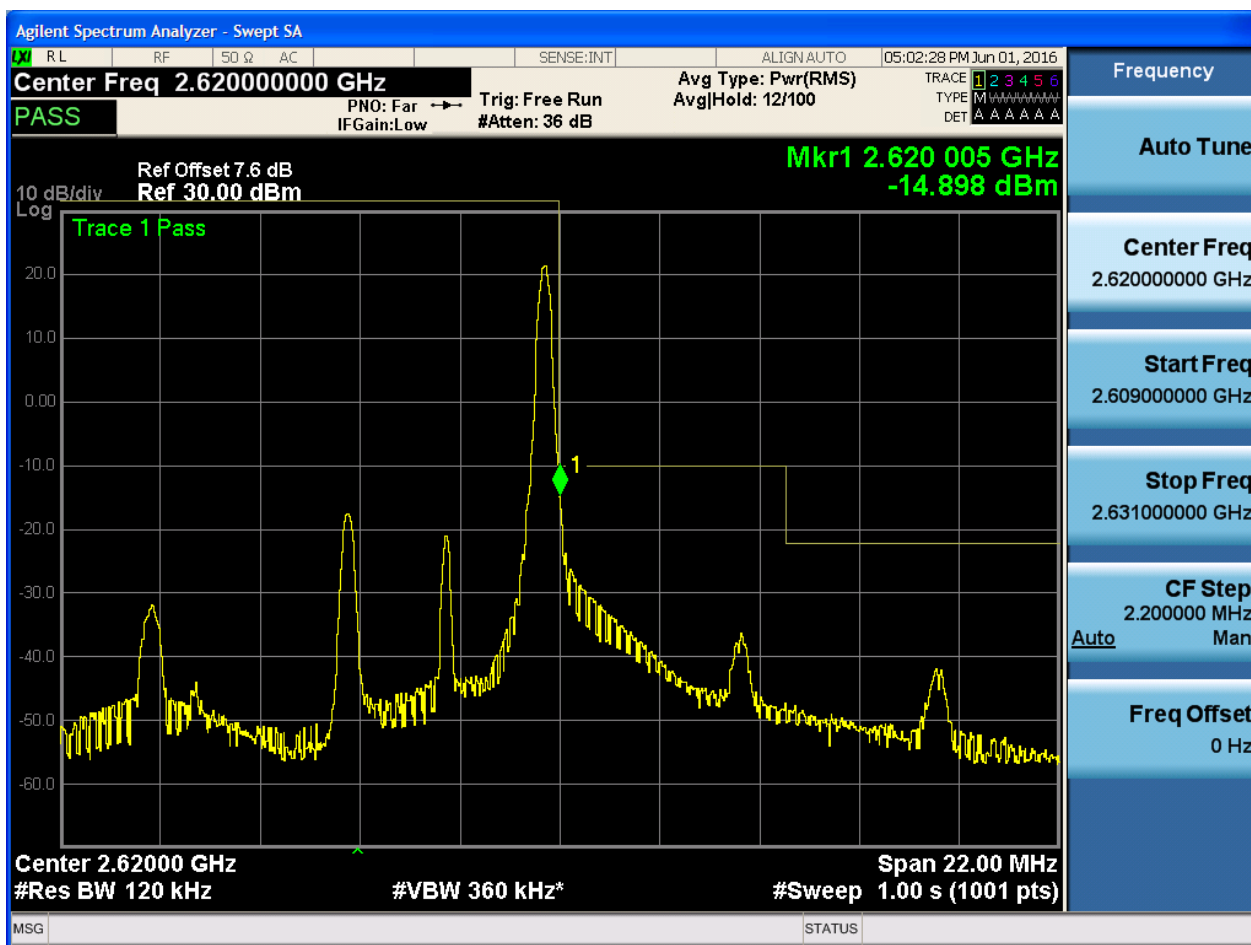
5.1.2.1.1.2 Test Channel = HCH

5.1.2.1.1.2.1 Test RB = RB1#0



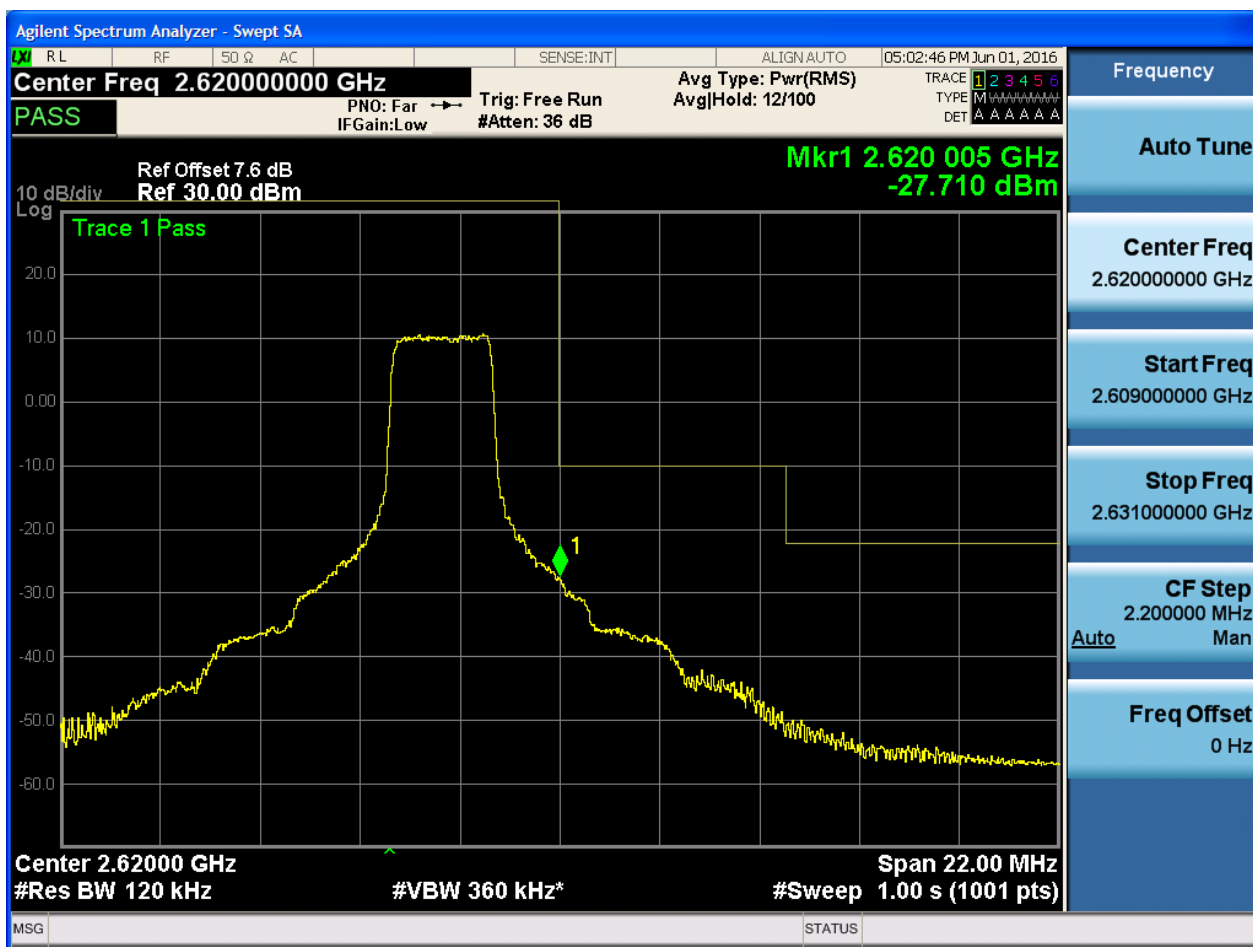


5.1.2.1.1.2.2 Test RB = RB1#24





5.1.2.1.1.2.3 Test RB = RB12#6





5.1.2.1.1.2.4 Test RB = RB25#0

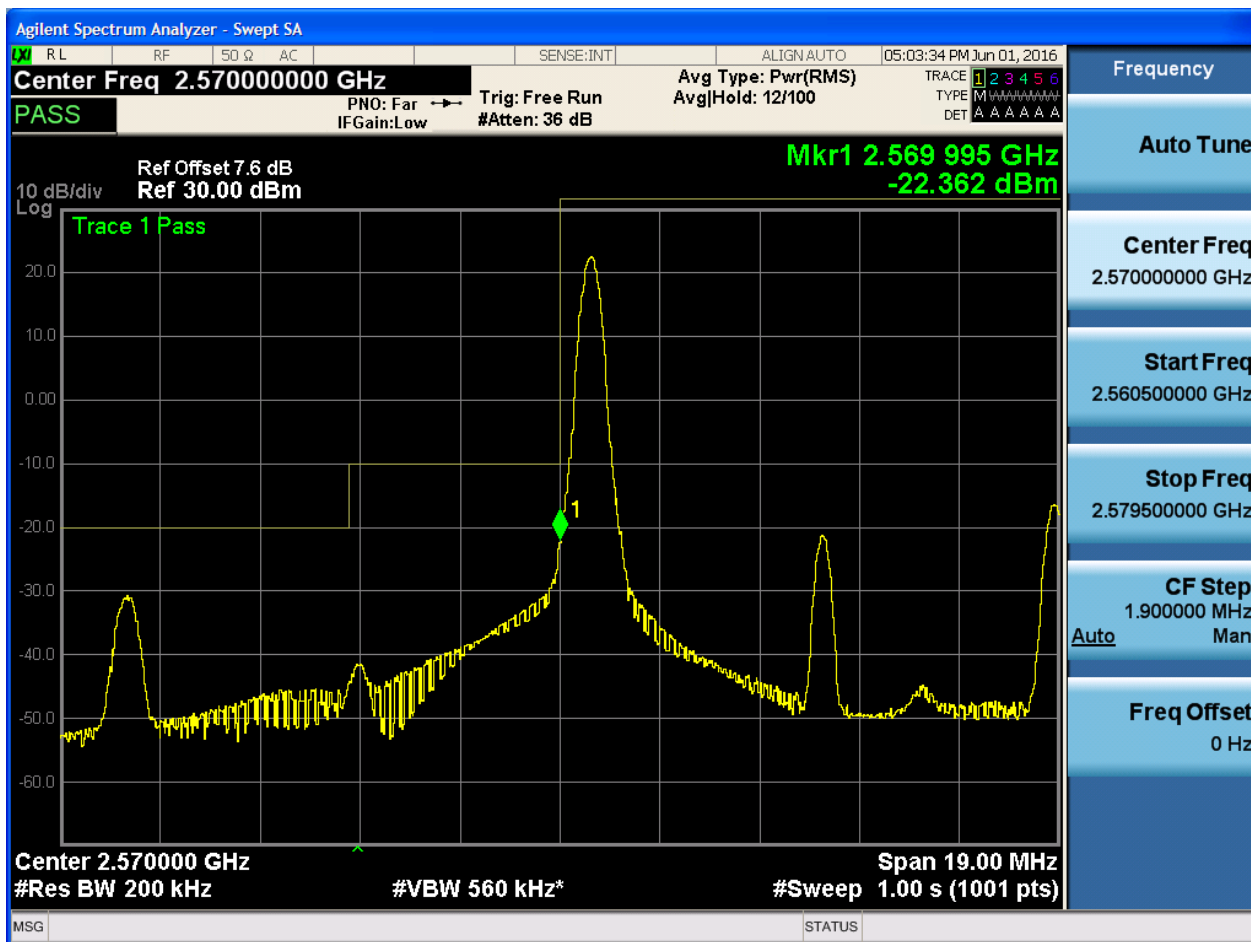




5.1.2.1.2 Test Bandwidth = 10

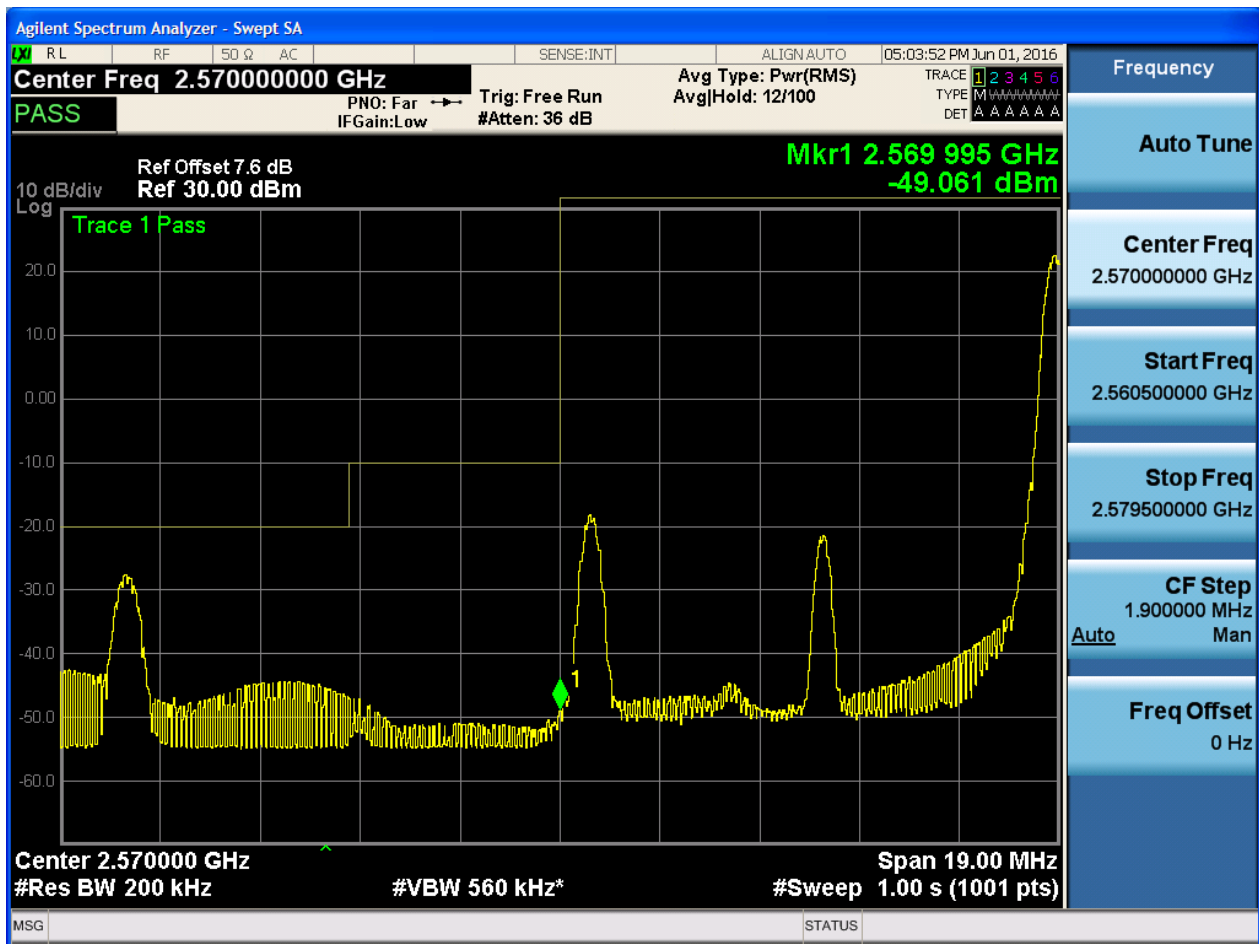
5.1.2.1.2.1 Test Channel = LCH

5.1.2.1.2.1.1 Test RB = RB1#0



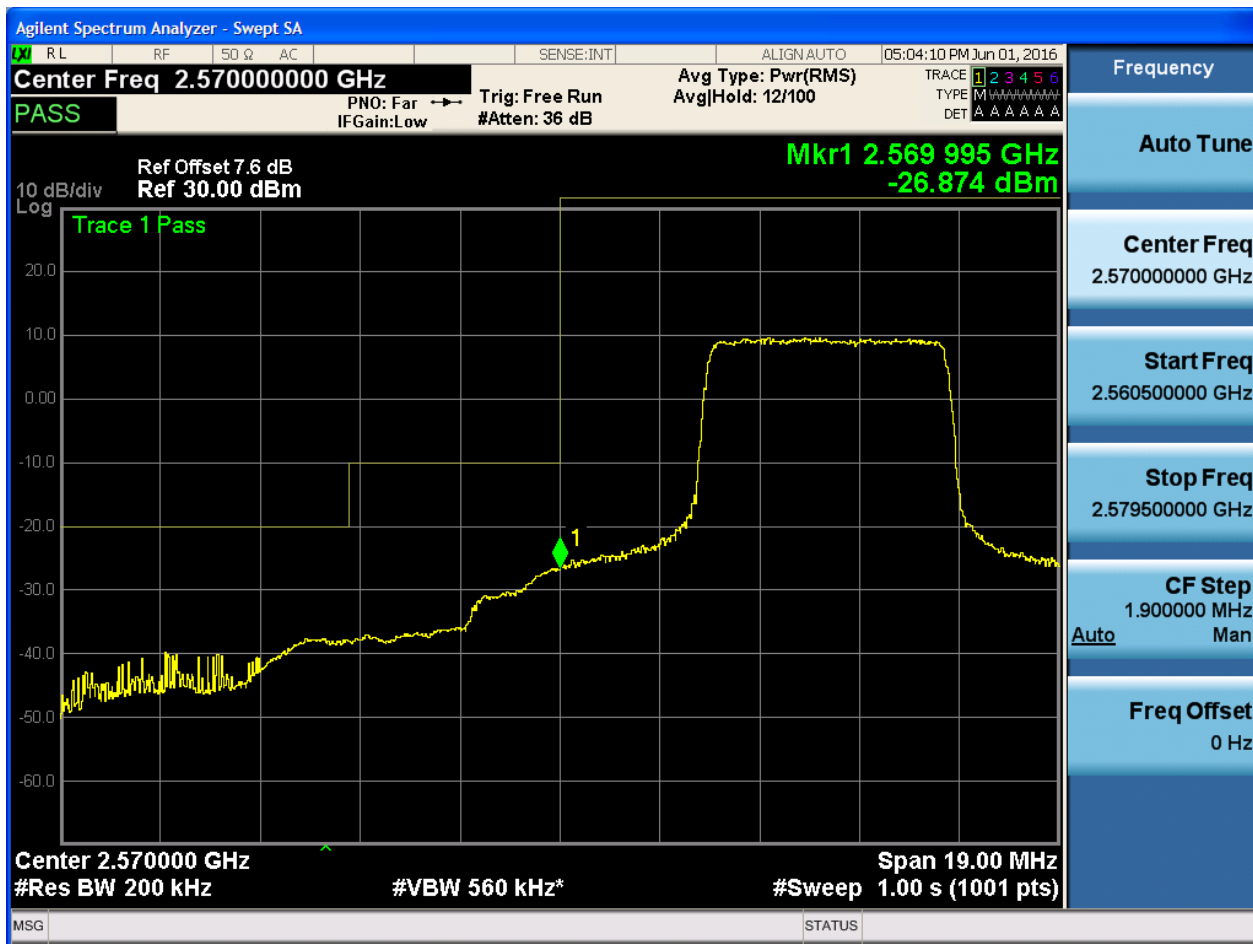


5.1.2.1.2.1.2 Test RB = RB1#49



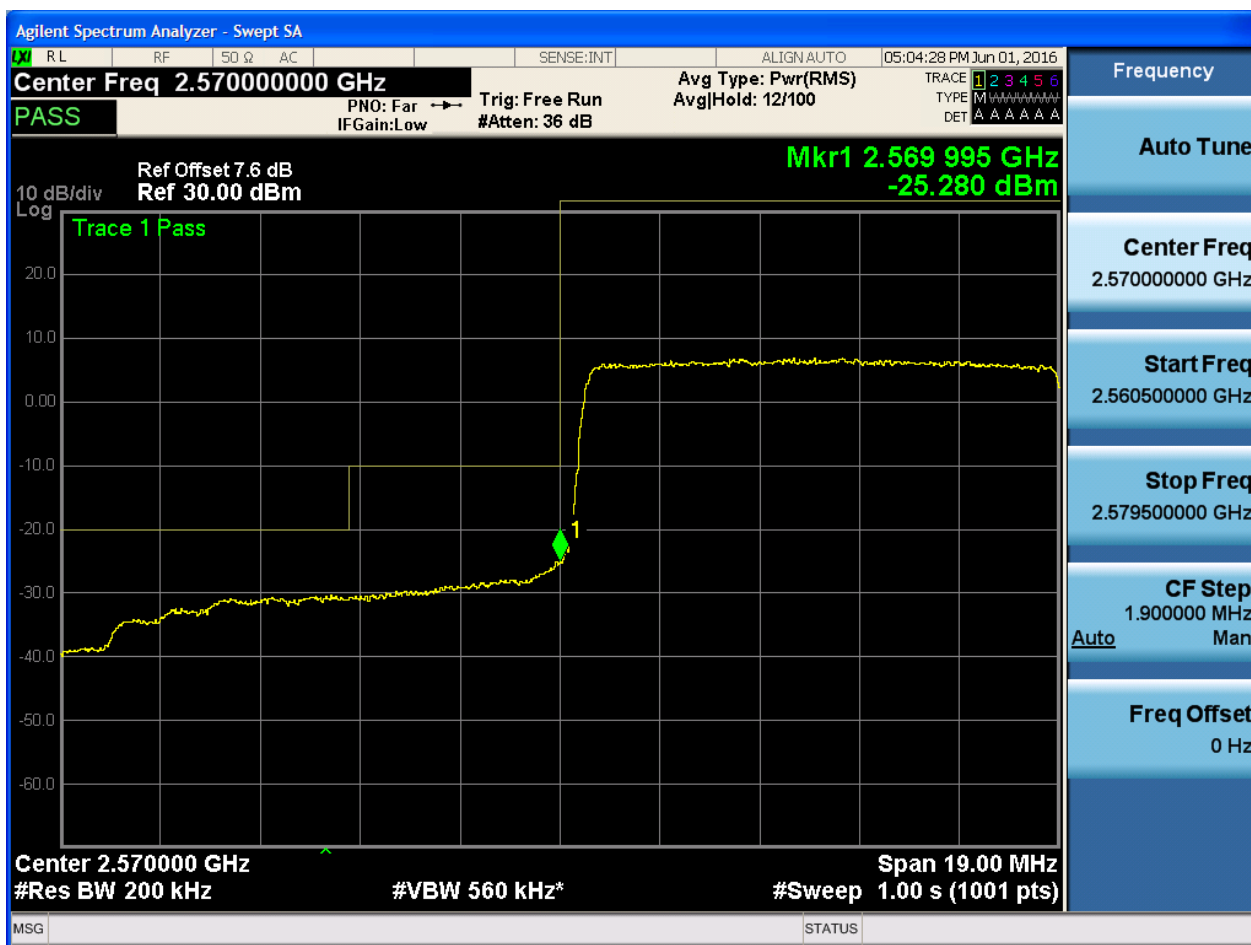


5.1.2.1.2.1.3 Test RB = RB25#13





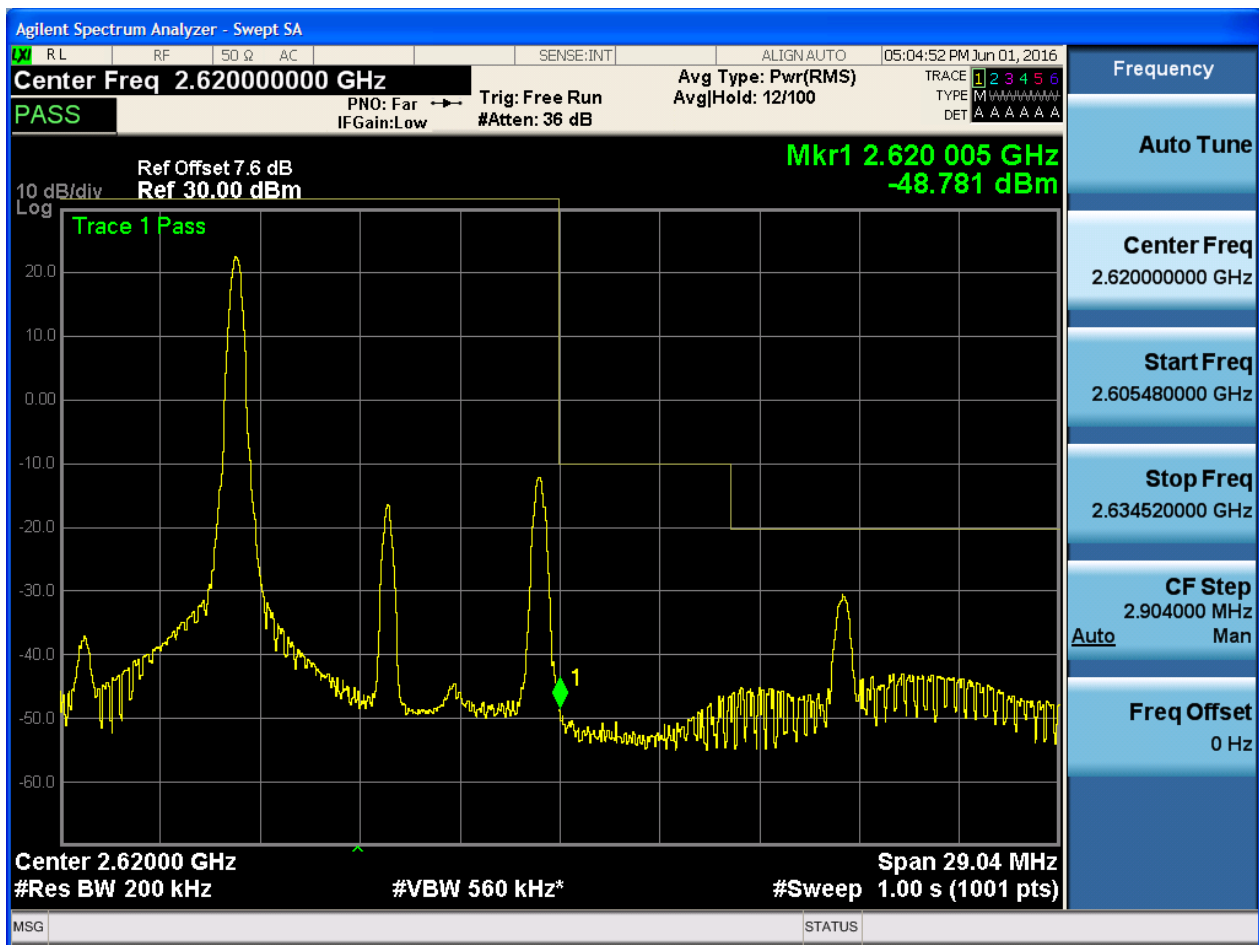
5.1.2.1.2.1.4 Test RB = RB50#0





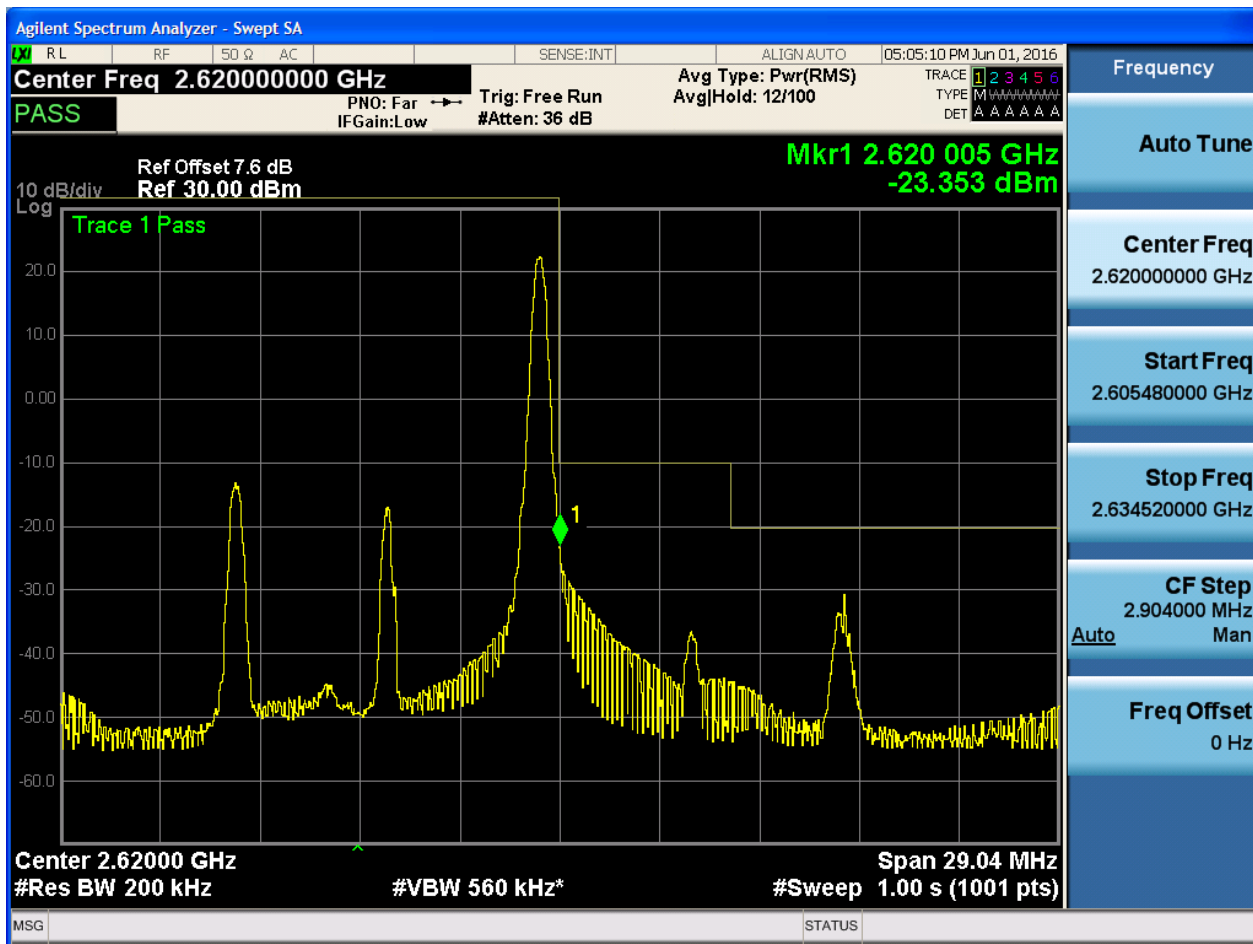
5.1.2.1.2.2 Test Channel = HCH

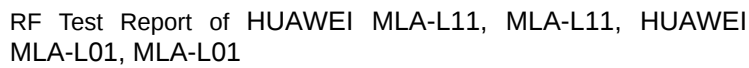
5.1.2.1.2.2.1 Test RB = RB1#0





5.1.2.1.2.2.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.62000000 GHz

PASS

Ref Offset 7.6 dB
Ref 30.00 dBm

Mkr1 2.620 005 GHz
-28.302 dBm

Trace 1 Pass

Center 2.6200 GHz
#Res BW 200 kHz
#VBW 560 kHz*

Span 29.04 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.62000000 GHz

Start Freq
2.605480000 GHz

Stop Freq
2.634520000 GHz

CF Step
2.904000 MHz
Man

Freq Offset
0 Hz



5.1.2.1.2.2.4 Test RB = RB50#0

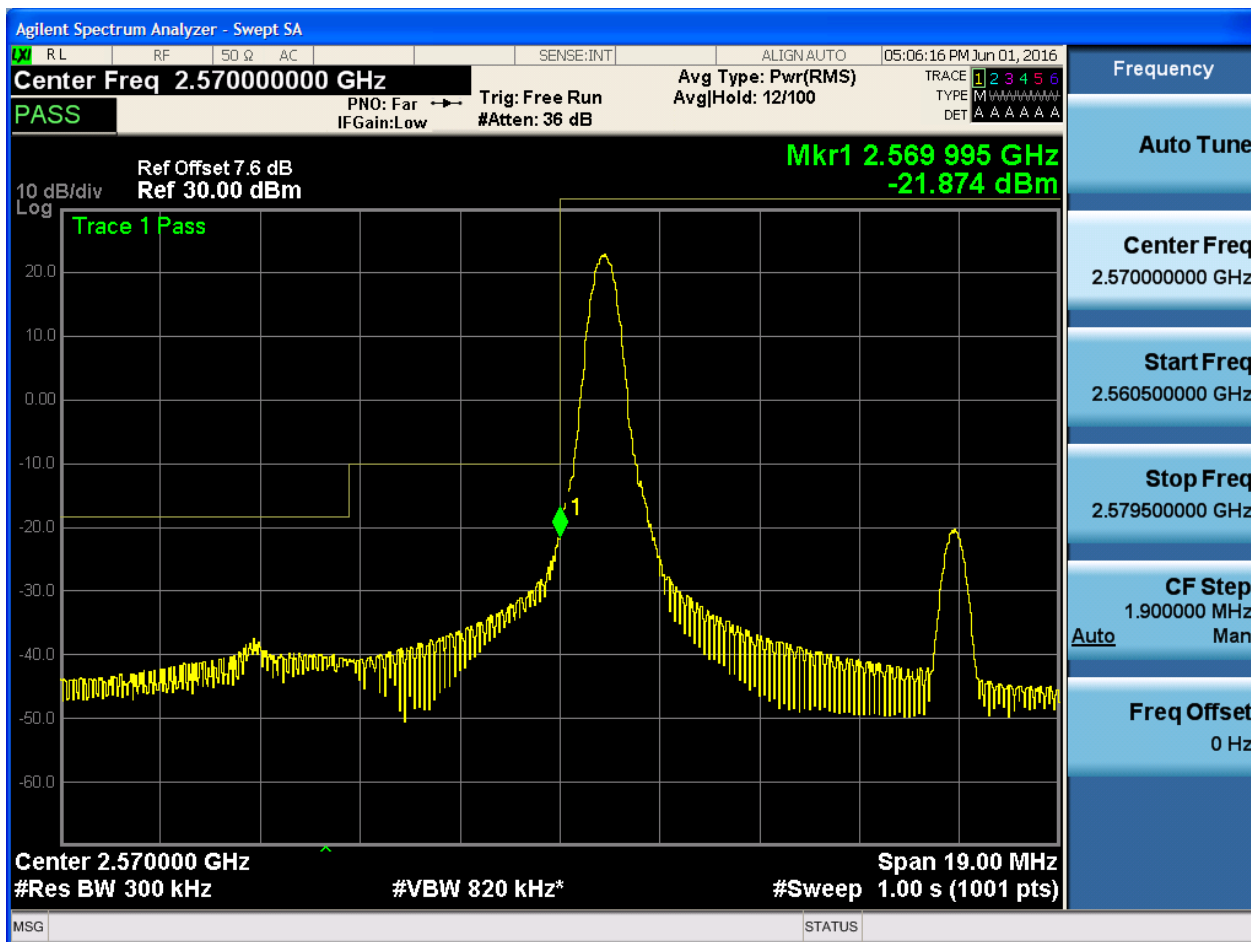




5.1.2.1.3 Test Bandwidth = 15

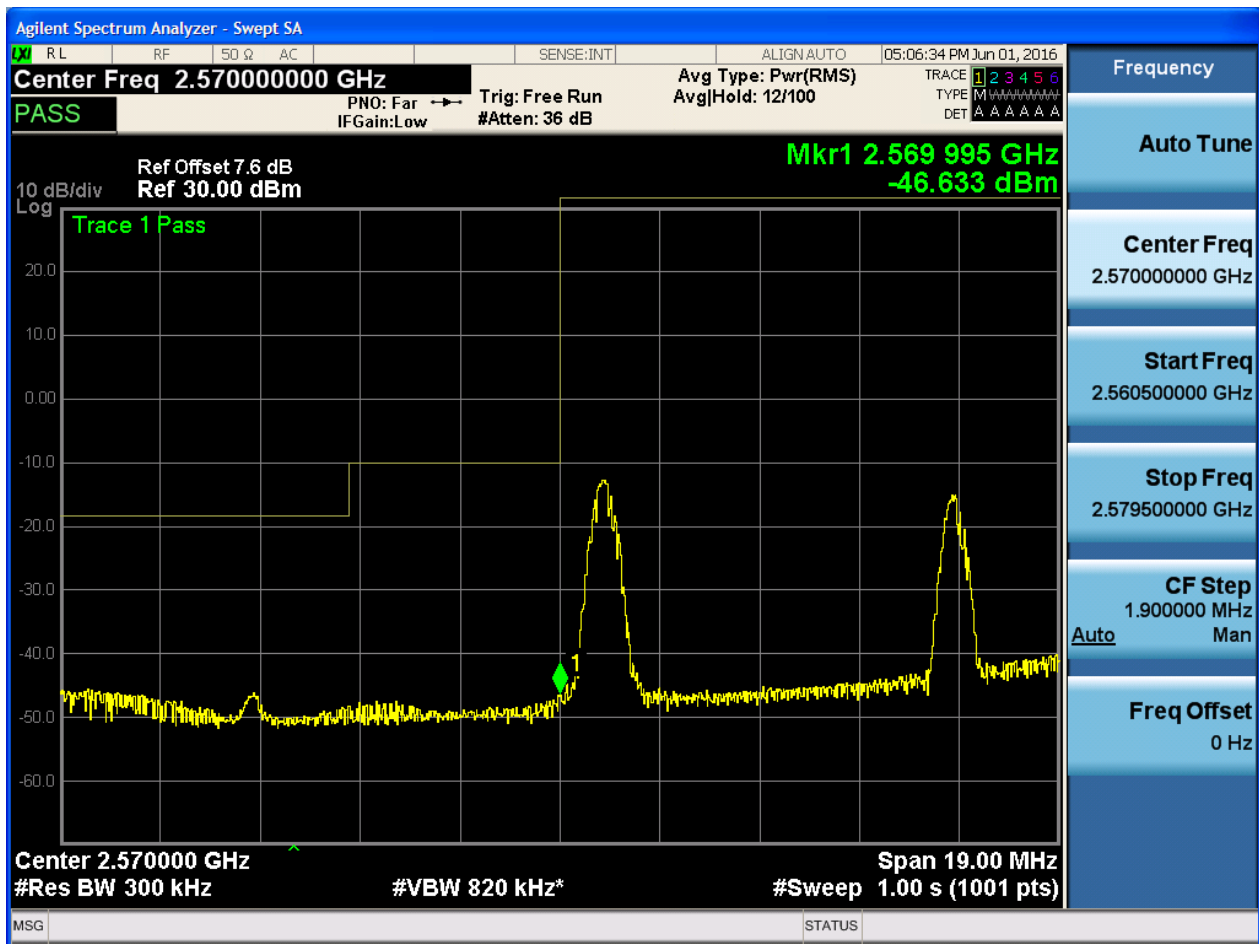
5.1.2.1.3.1 Test Channel = LCH

5.1.2.1.3.1.1 Test RB = RB1#0





5.1.2.1.3.1.2 Test RB = RB1#74





5.1.2.1.3.1.3 Test RB = RB36#18





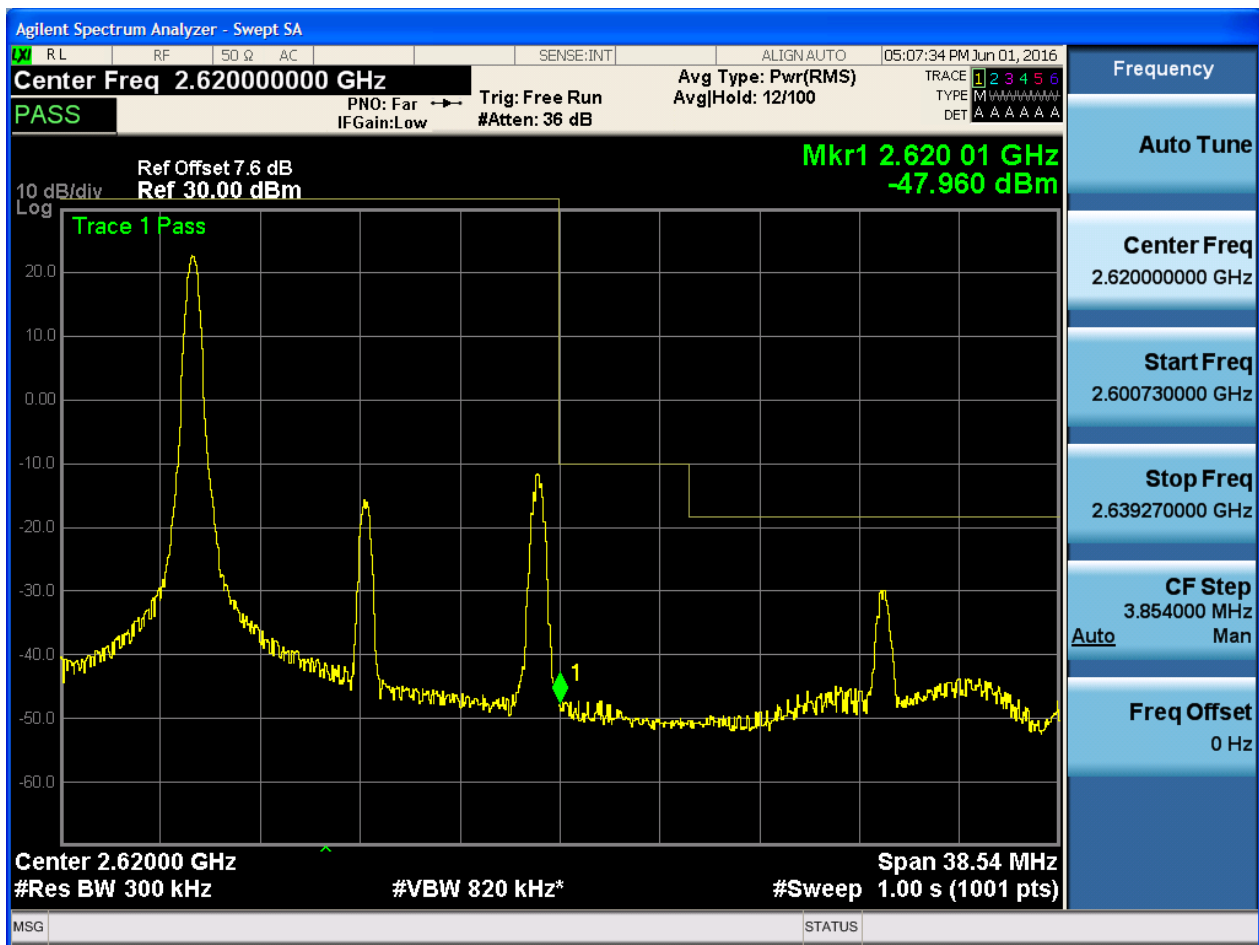
5.1.2.1.3.1.4 Test RB = RB75#0





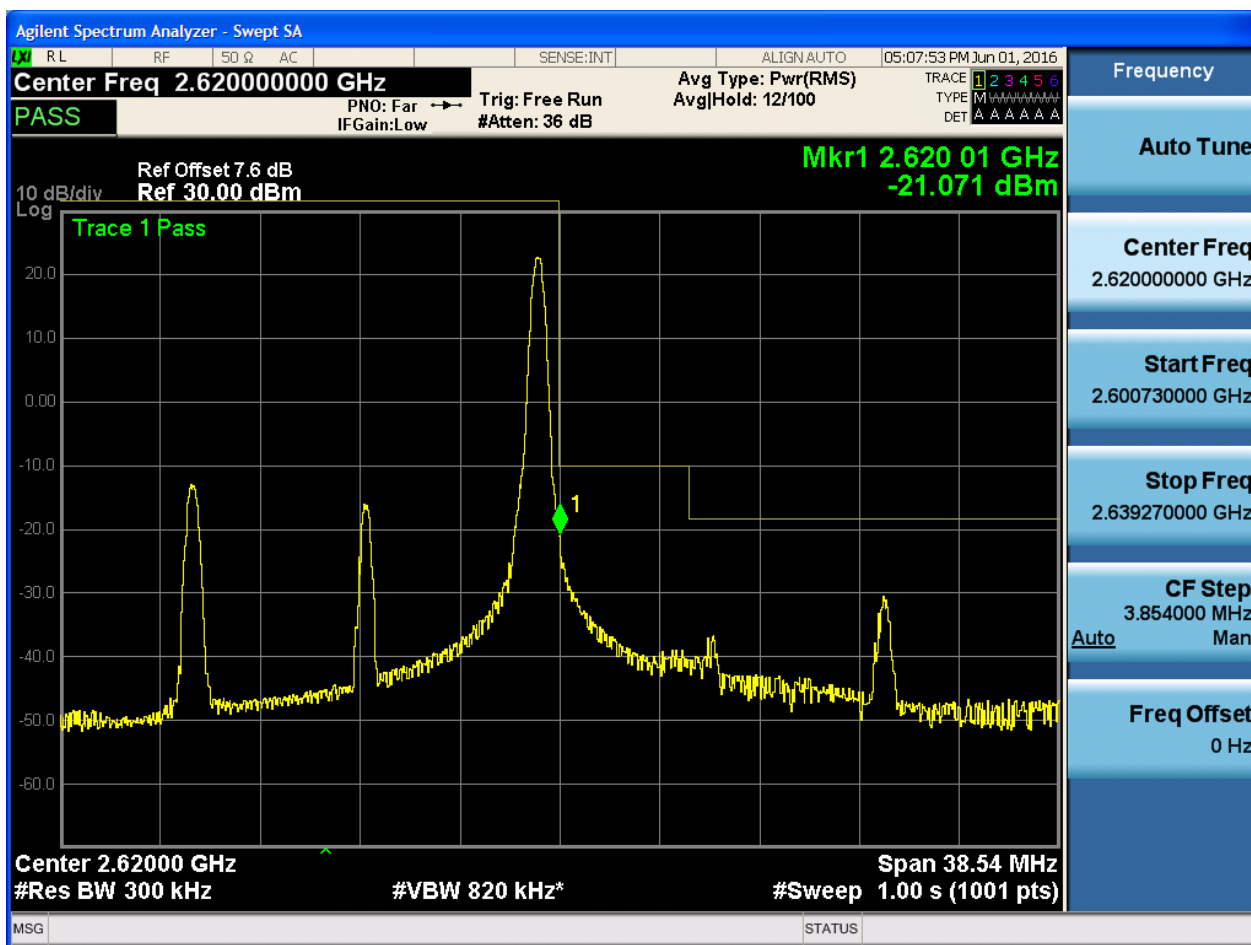
5.1.2.1.3.2 Test Channel = HCH

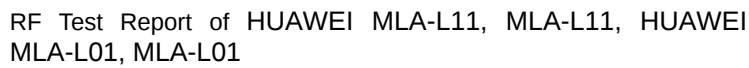
5.1.2.1.3.2.1 Test RB = RB1#0





5.1.2.1.3.2.2 Test RB = RB1#74





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.62000000 GHz

PASS

Ref Offset 7.6 dB
Ref 30.00 dBm

Mkr1 2.620 01 GHz
-29.140 dBm

Trace 1 Pass

Center 2.62000 GHz
#Res BW 300 kHz

#VBW 820 kHz*

Span 38.54 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.62000000 GHz

Start Freq
2.600730000 GHz

Stop Freq
2.639270000 GHz

CF Step
3.854000 MHz
Man

Freq Offset
0 Hz



5.1.2.1.3.2.4 Test RB = RB75#0

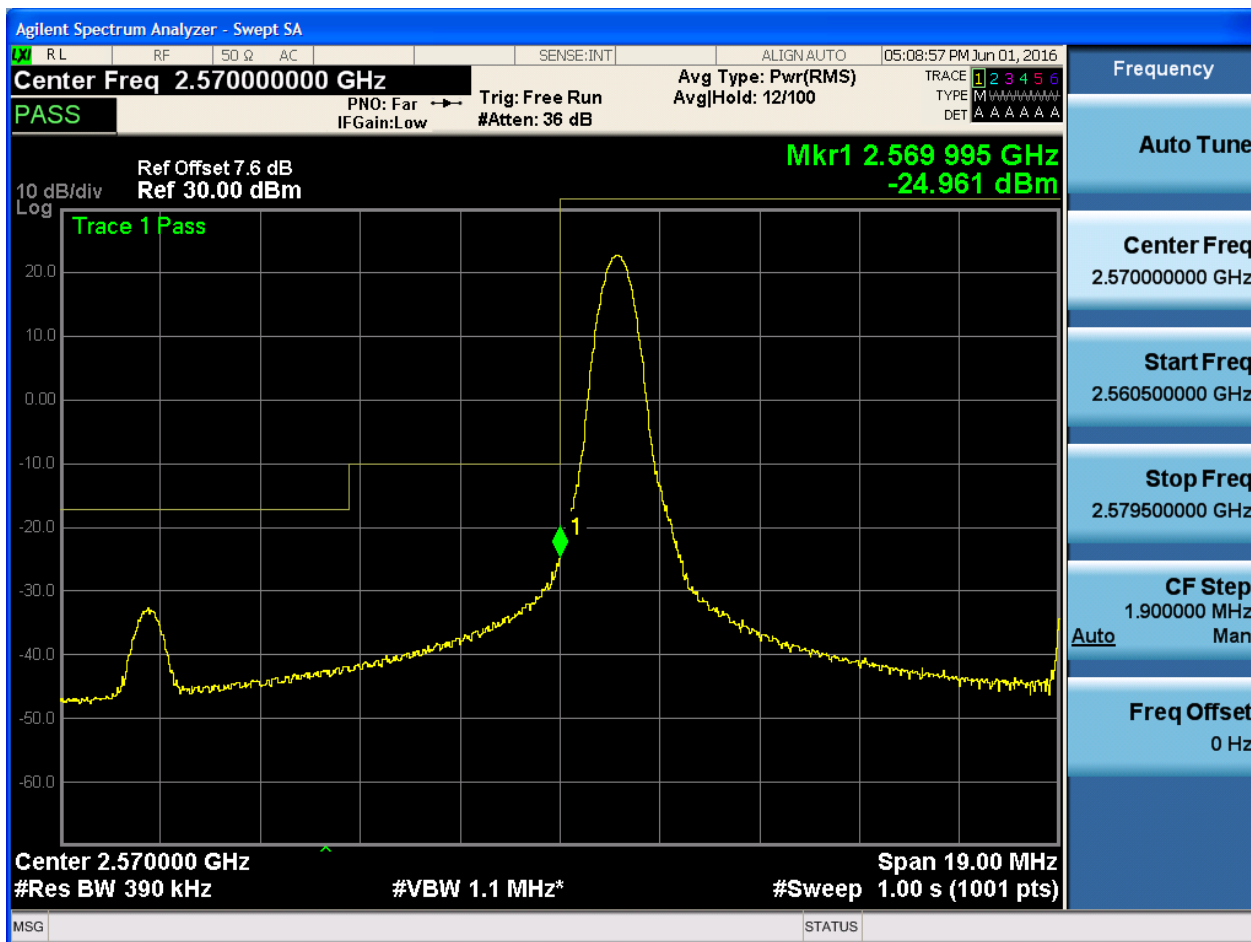




5.1.2.1.4 Test Bandwidth = 20

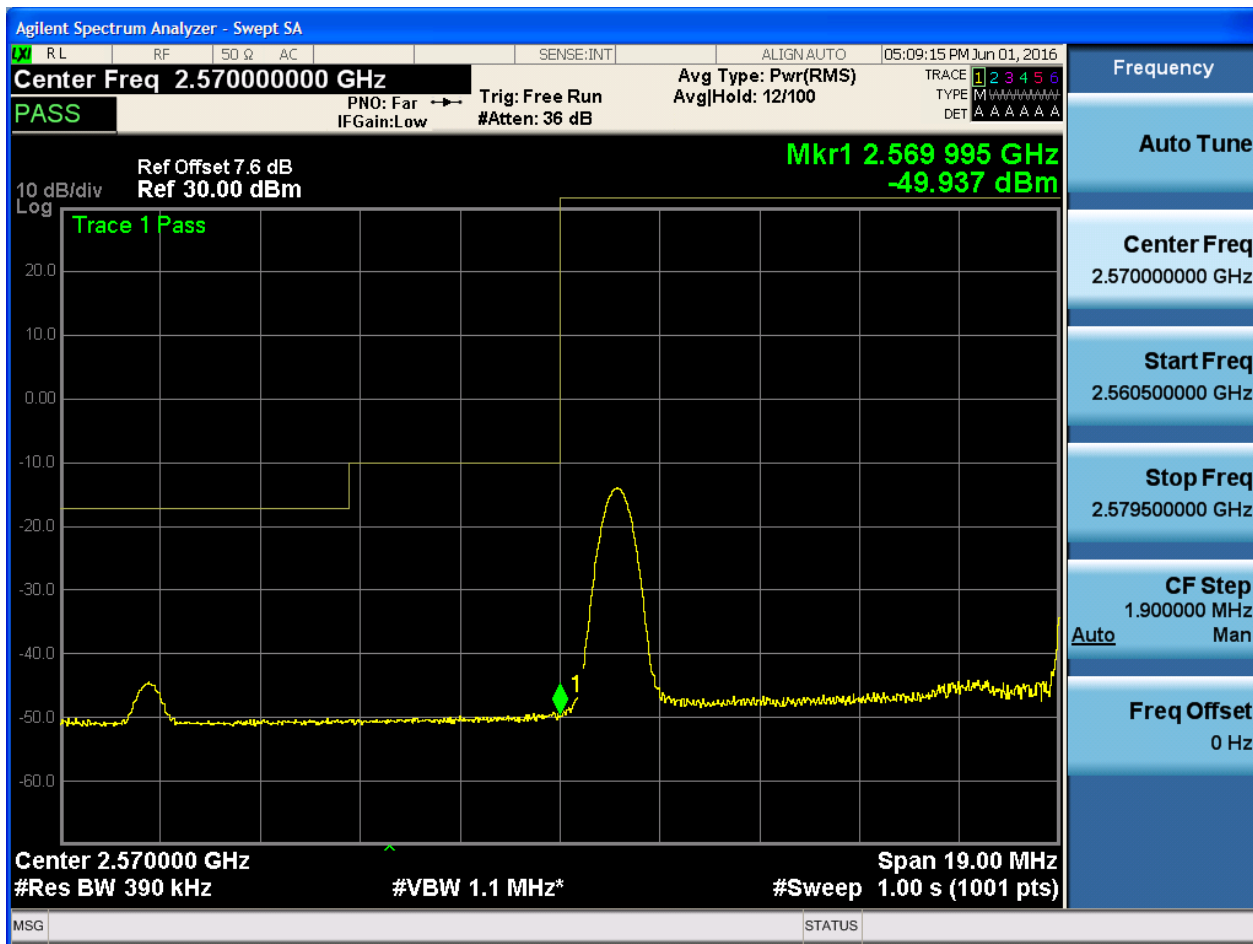
5.1.2.1.4.1 Test Channel = LCH

5.1.2.1.4.1.1 Test RB = RB1#0





5.1.2.1.4.1.2 Test RB = RB1#99



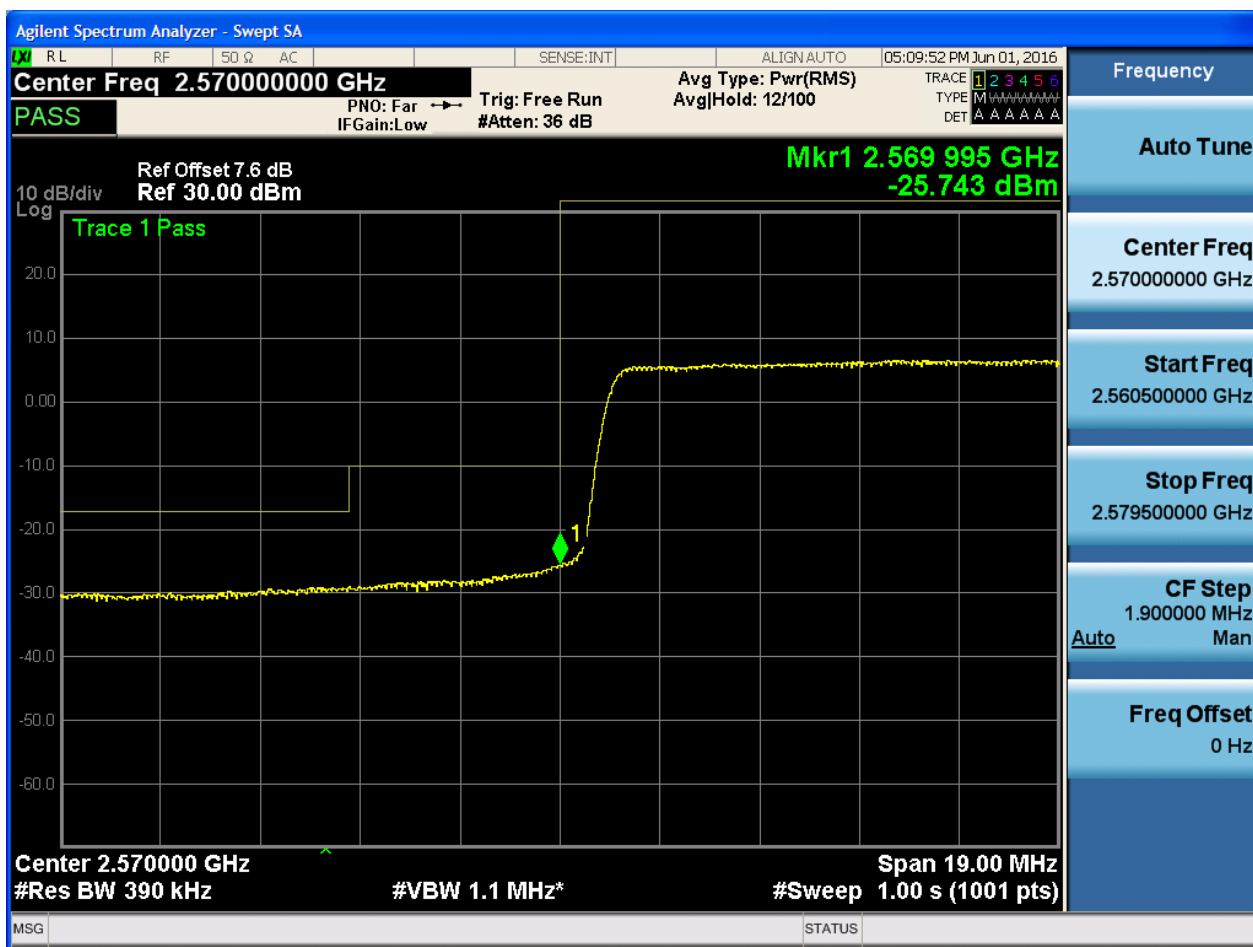


5.1.2.1.4.1.3 Test RB = RB50#25





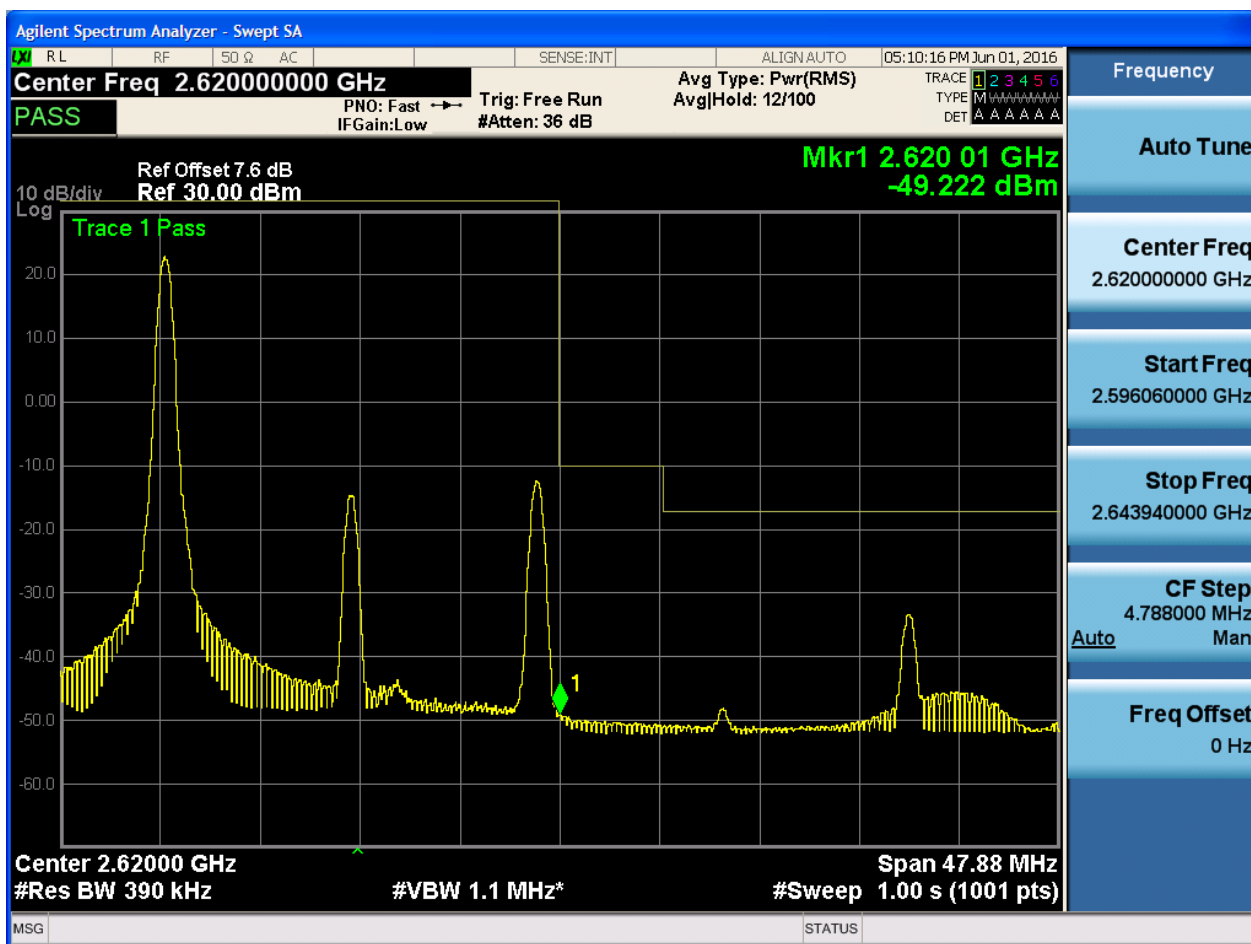
5.1.2.1.4.1.4 Test RB = RB100#0





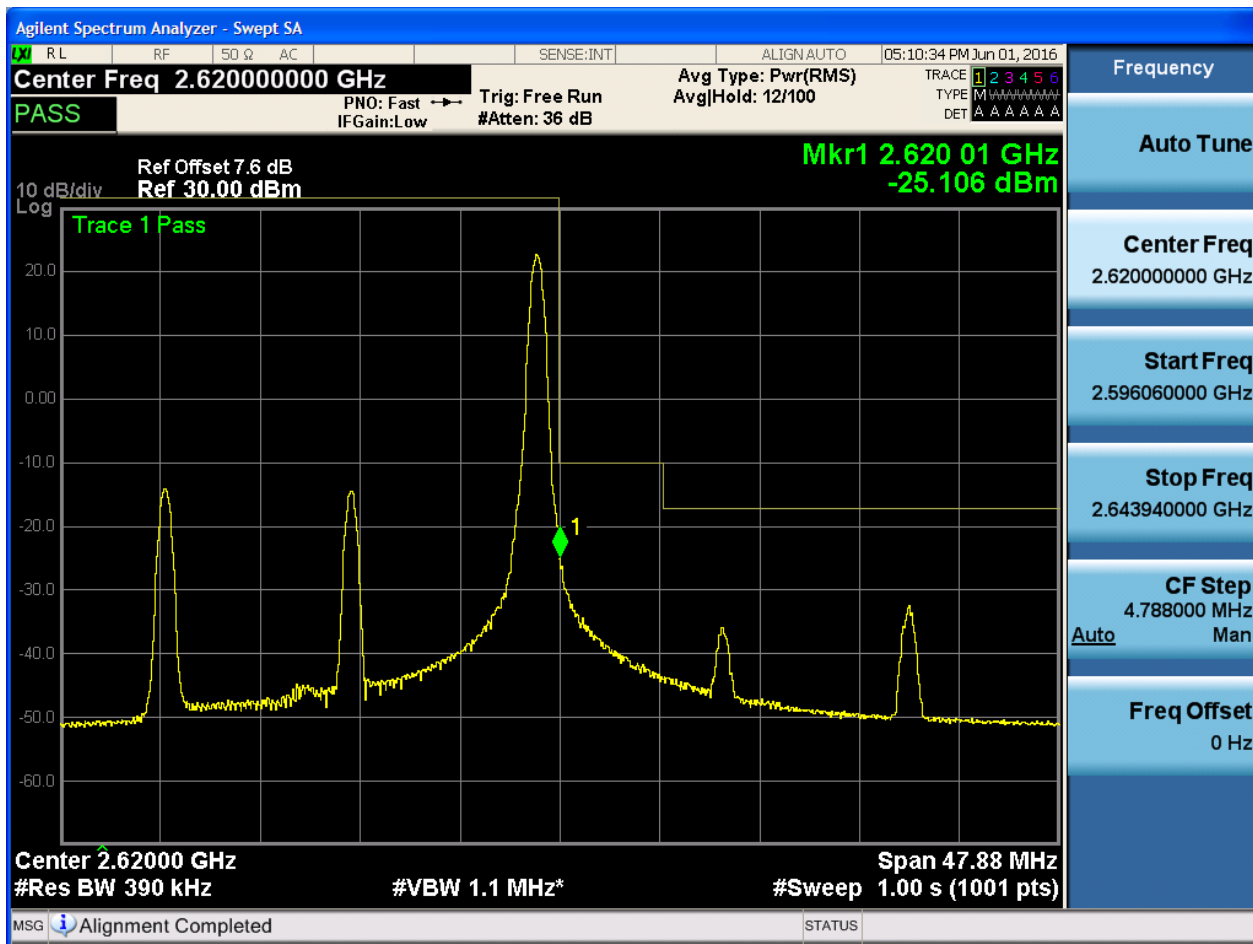
5.1.2.1.4.2 Test Channel = HCH

5.1.2.1.4.2.1 Test RB = RB1#0





5.1.2.1.4.2.2 Test RB = RB1#99





5.1.2.1.4.2.3 Test RB = RB50#25





5.1.2.1.4.2.4 Test RB = RB100#0



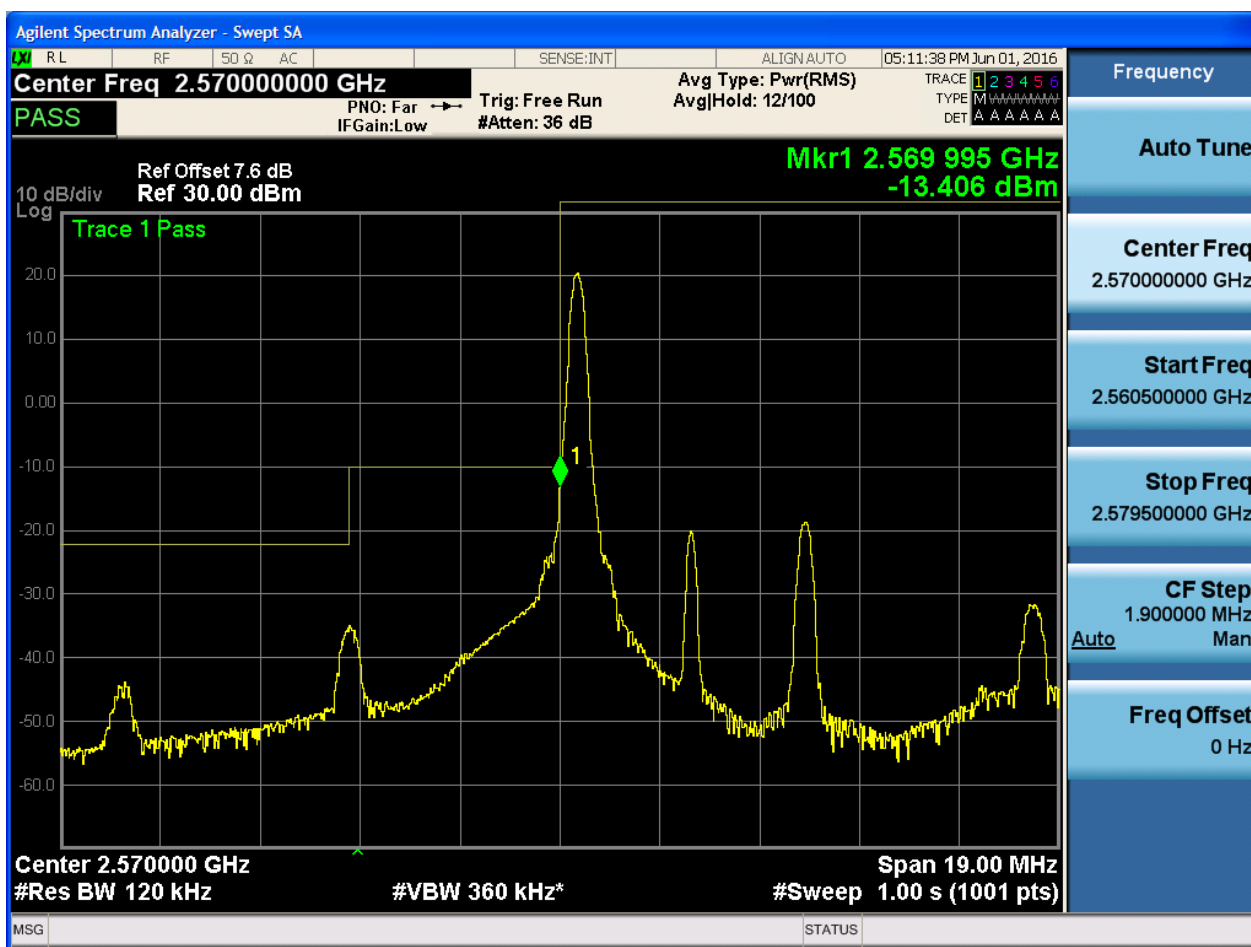


5.1.2.2 Test Mode = LTE/TM2

5.1.2.2.1 Test Bandwidth = 5

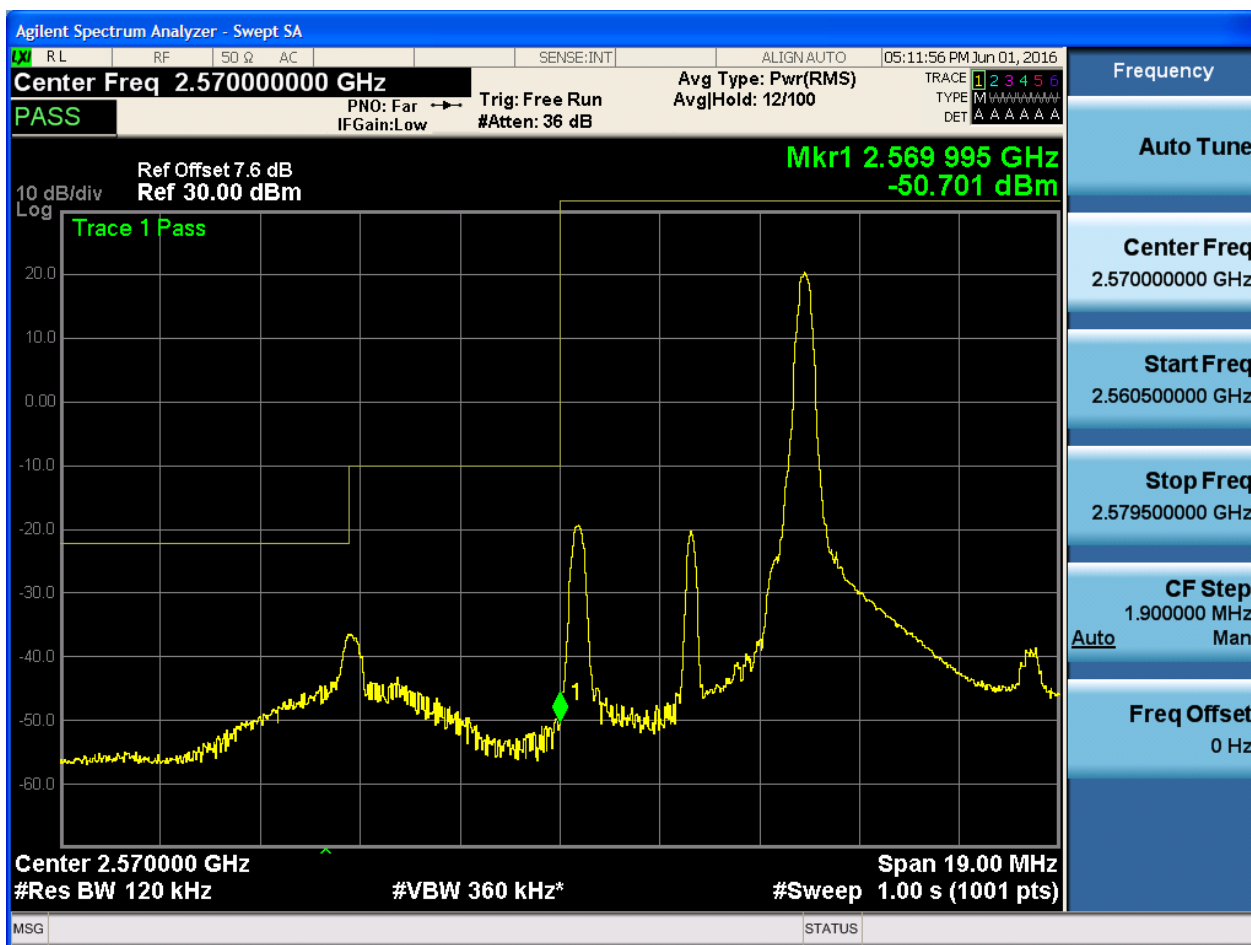
5.1.2.2.1.1 Test Channel = LCH

5.1.2.2.1.1.1 Test RB = RB1#0



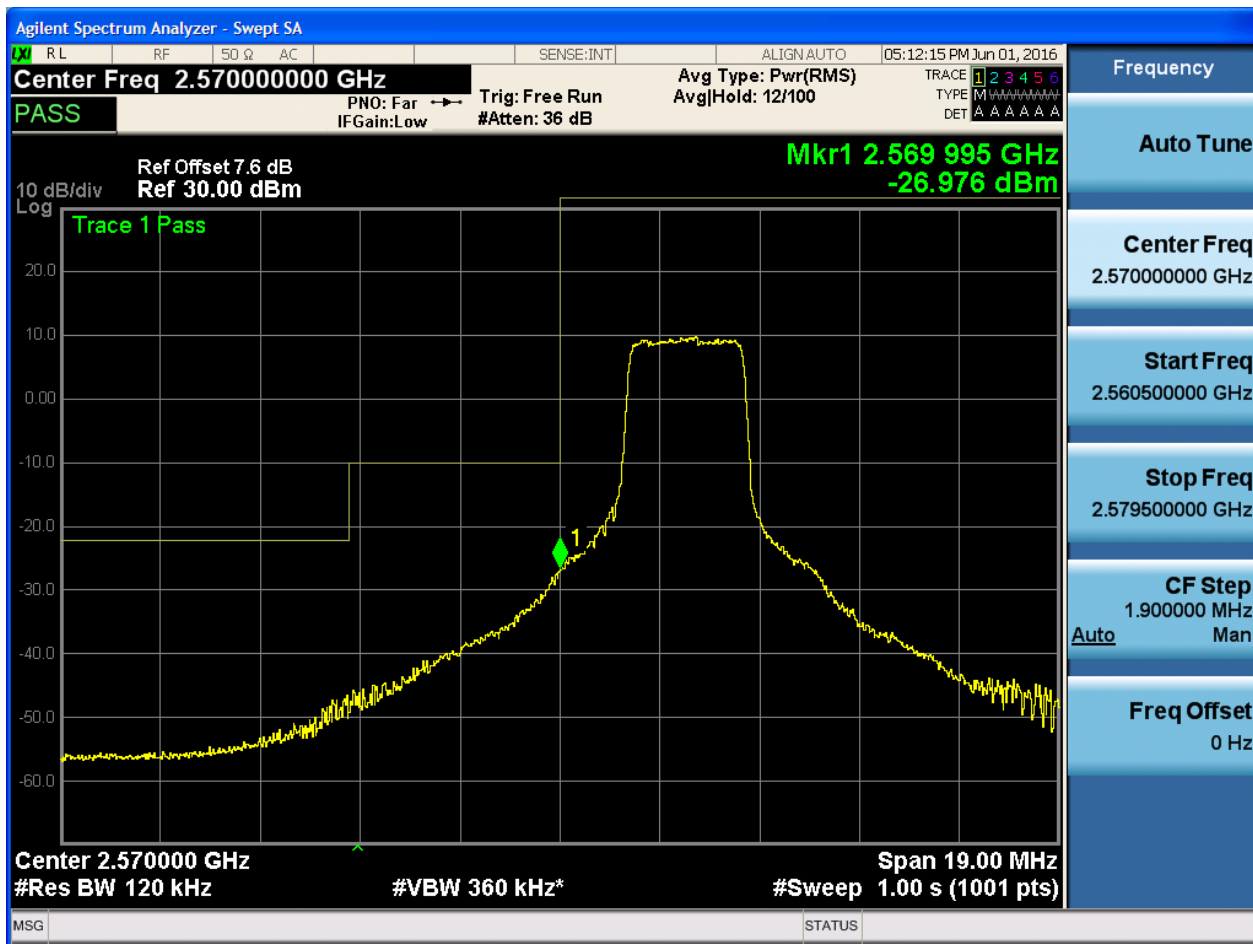


5.1.2.2.1.1.2 Test RB = RB1#24





5.1.2.2.1.1.3 Test RB = RB12#6





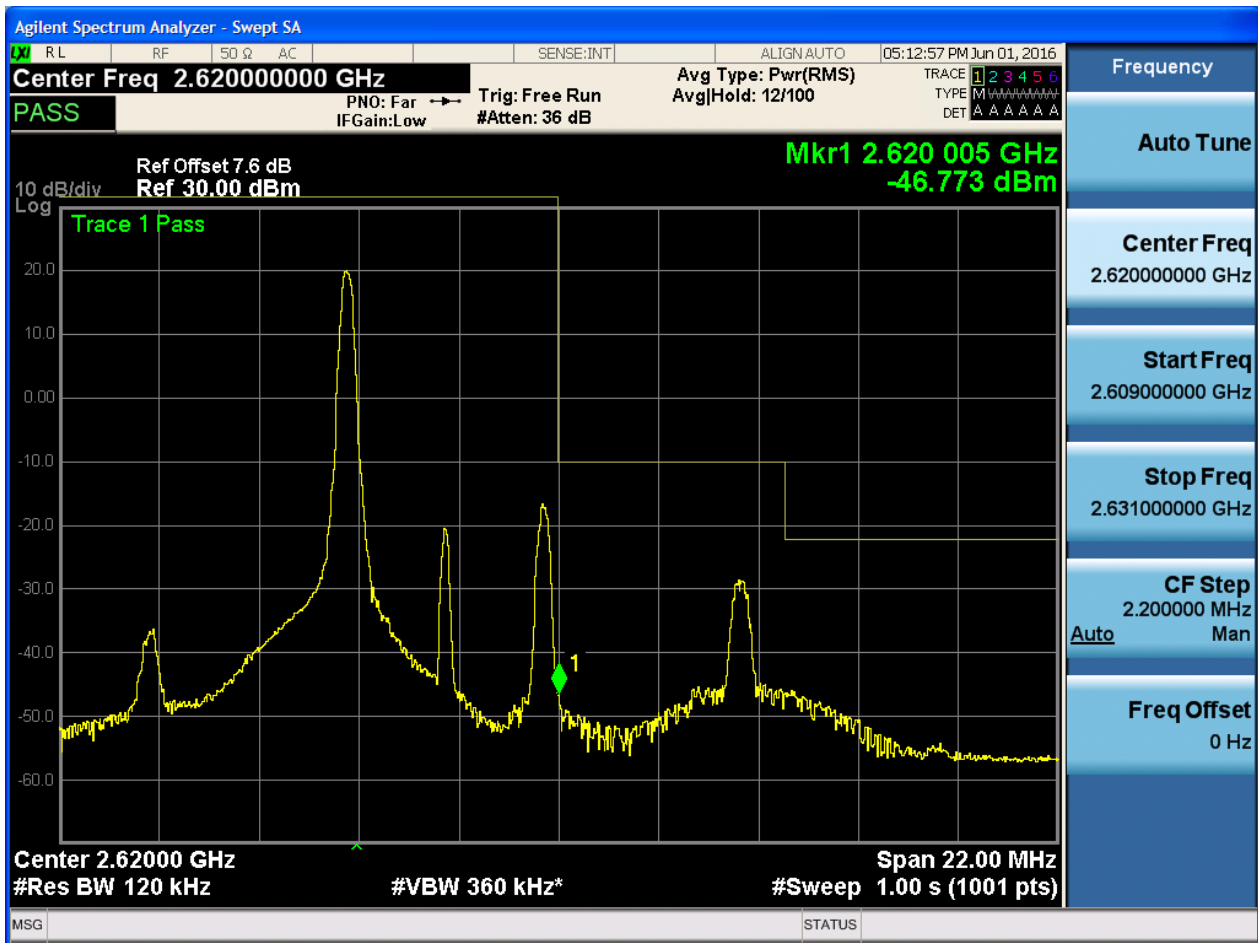
5.1.2.2.1.1.4 Test RB = RB25#0





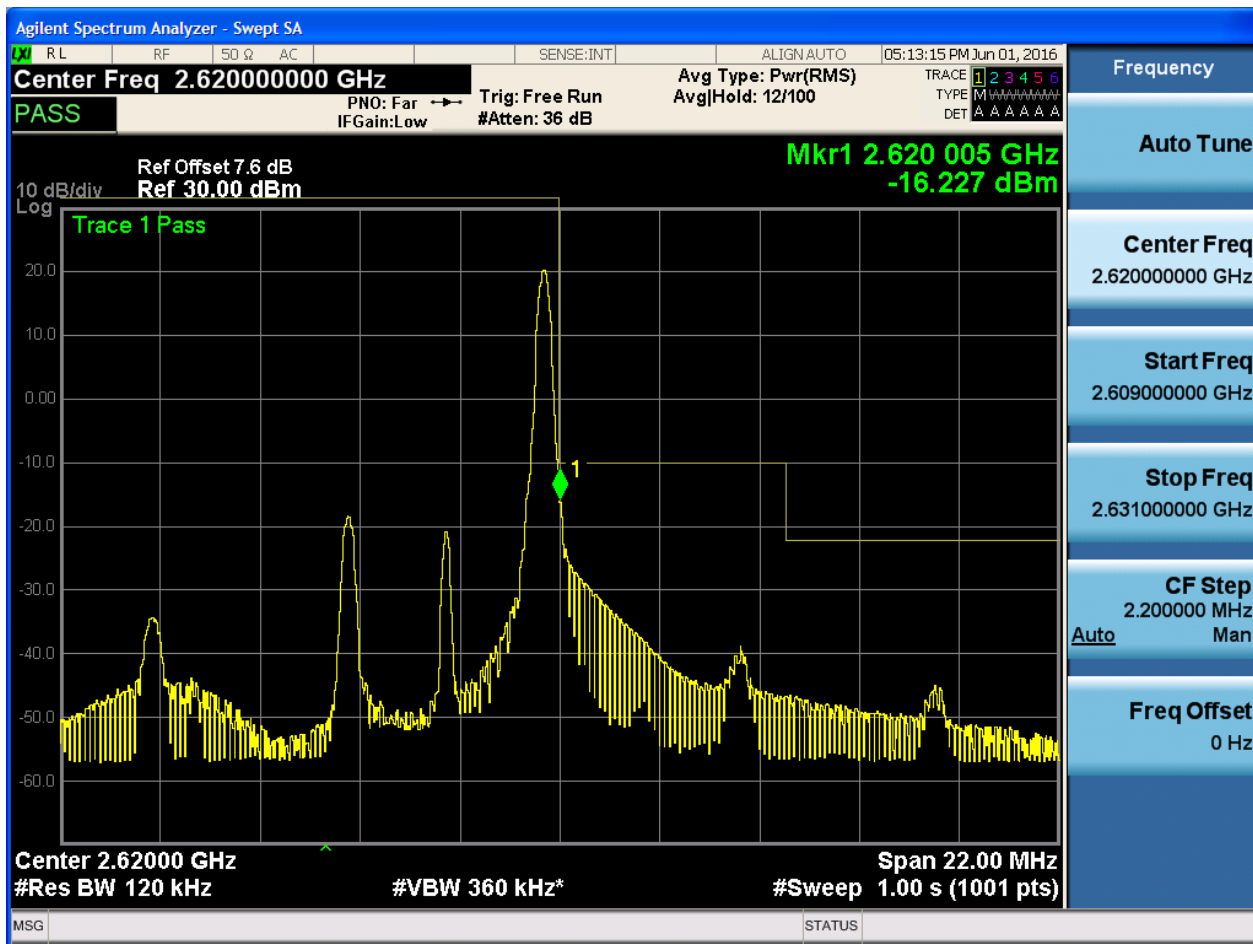
5.1.2.2.1.2 Test Channel = HCH

5.1.2.2.1.2.1 Test RB = RB1#0



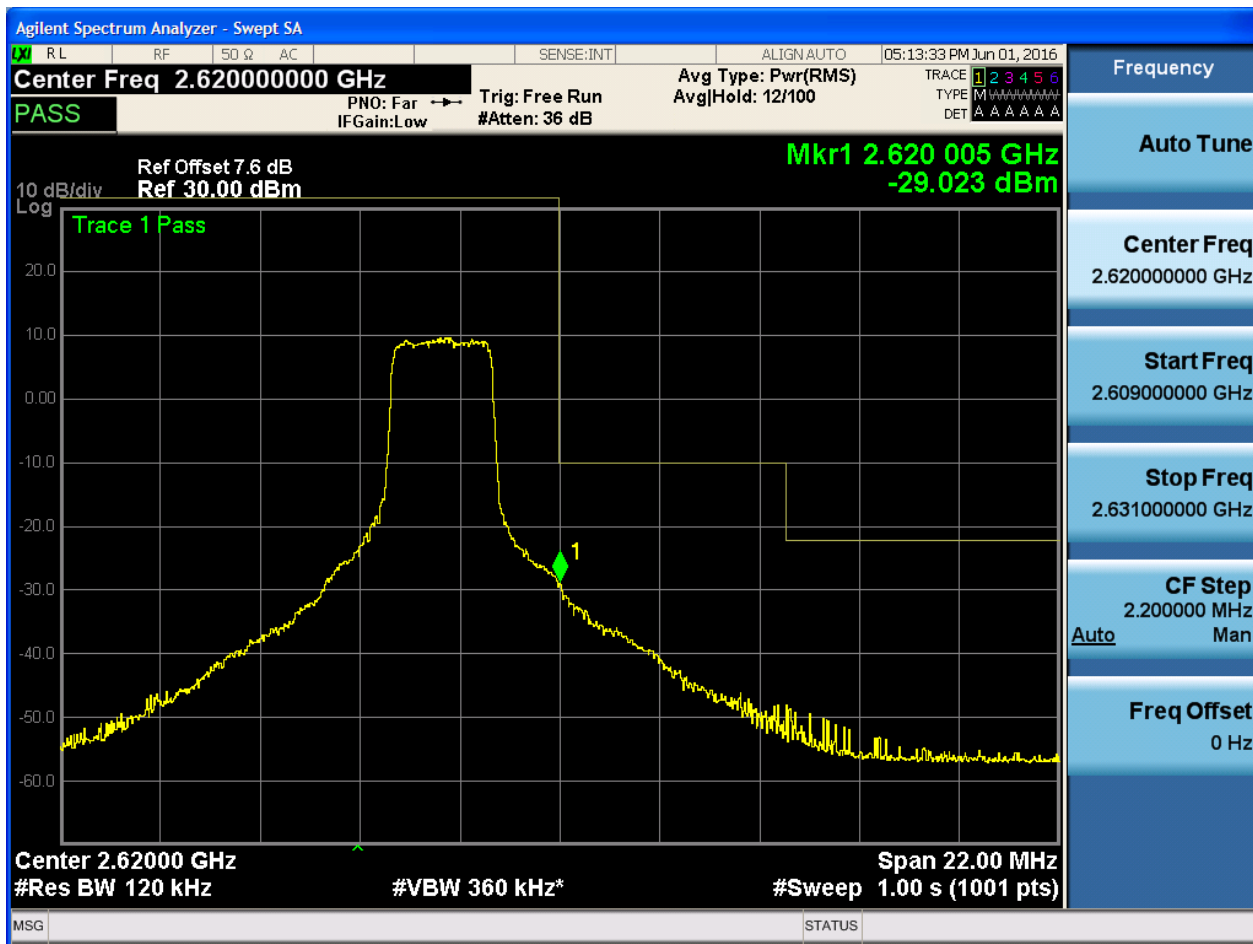


5.1.2.2.1.2.2 Test RB = RB1#24





5.1.2.2.1.2.3 Test RB = RB12#6





5.1.2.2.1.2.4 Test RB = RB25#0

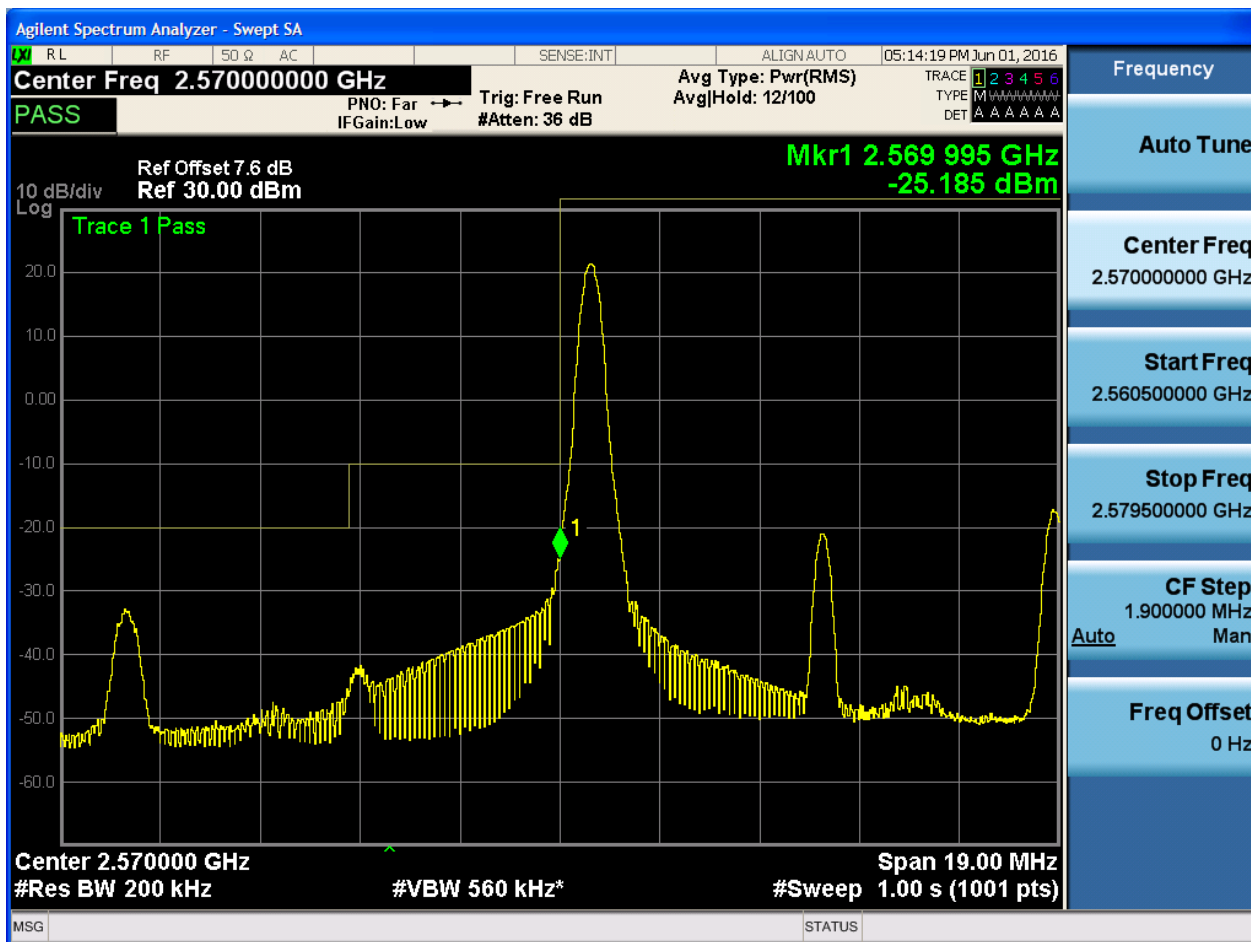




5.1.2.2.2 Test Bandwidth = 10

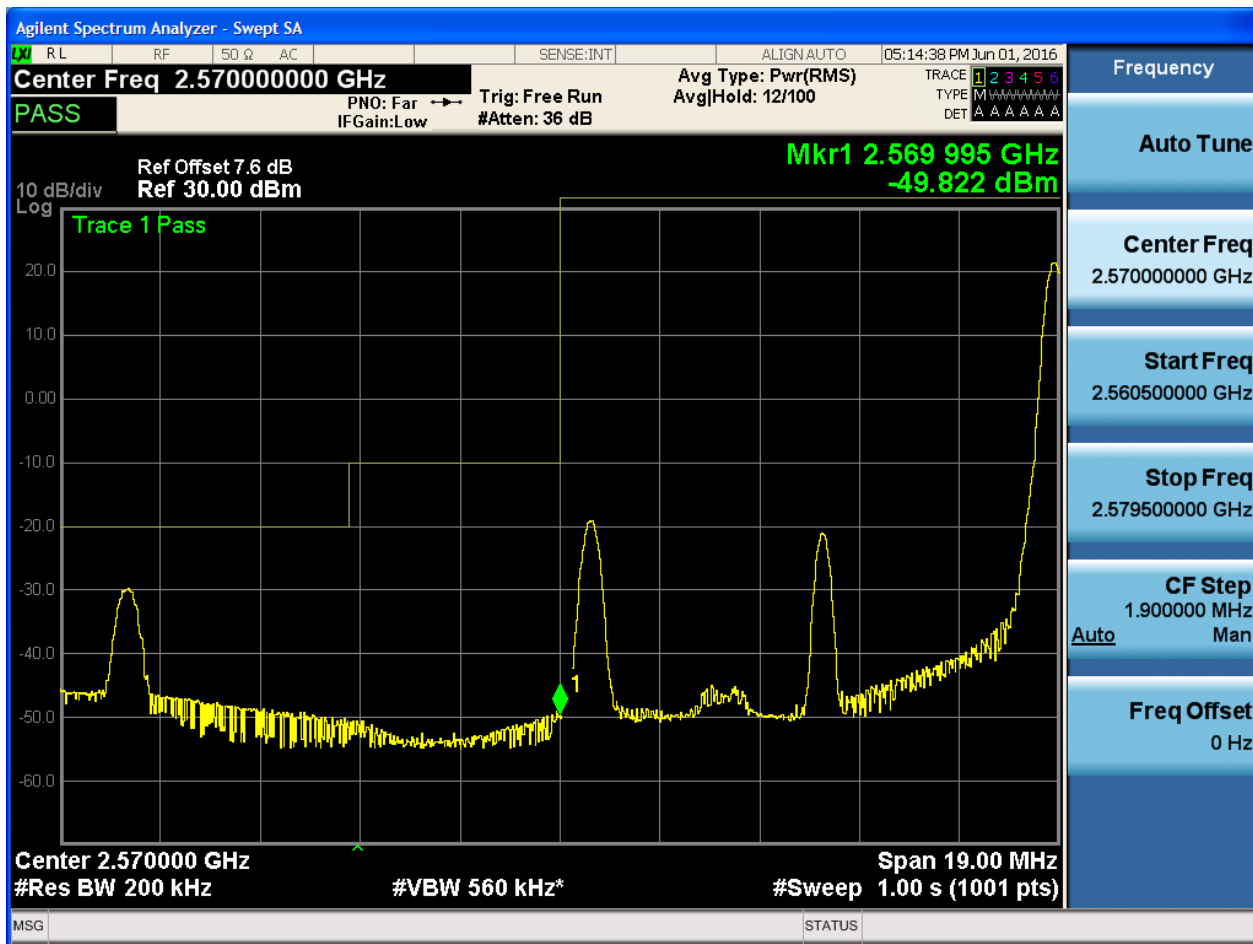
5.1.2.2.2.1 Test Channel = LCH

5.1.2.2.2.1.1 Test RB = RB1#0



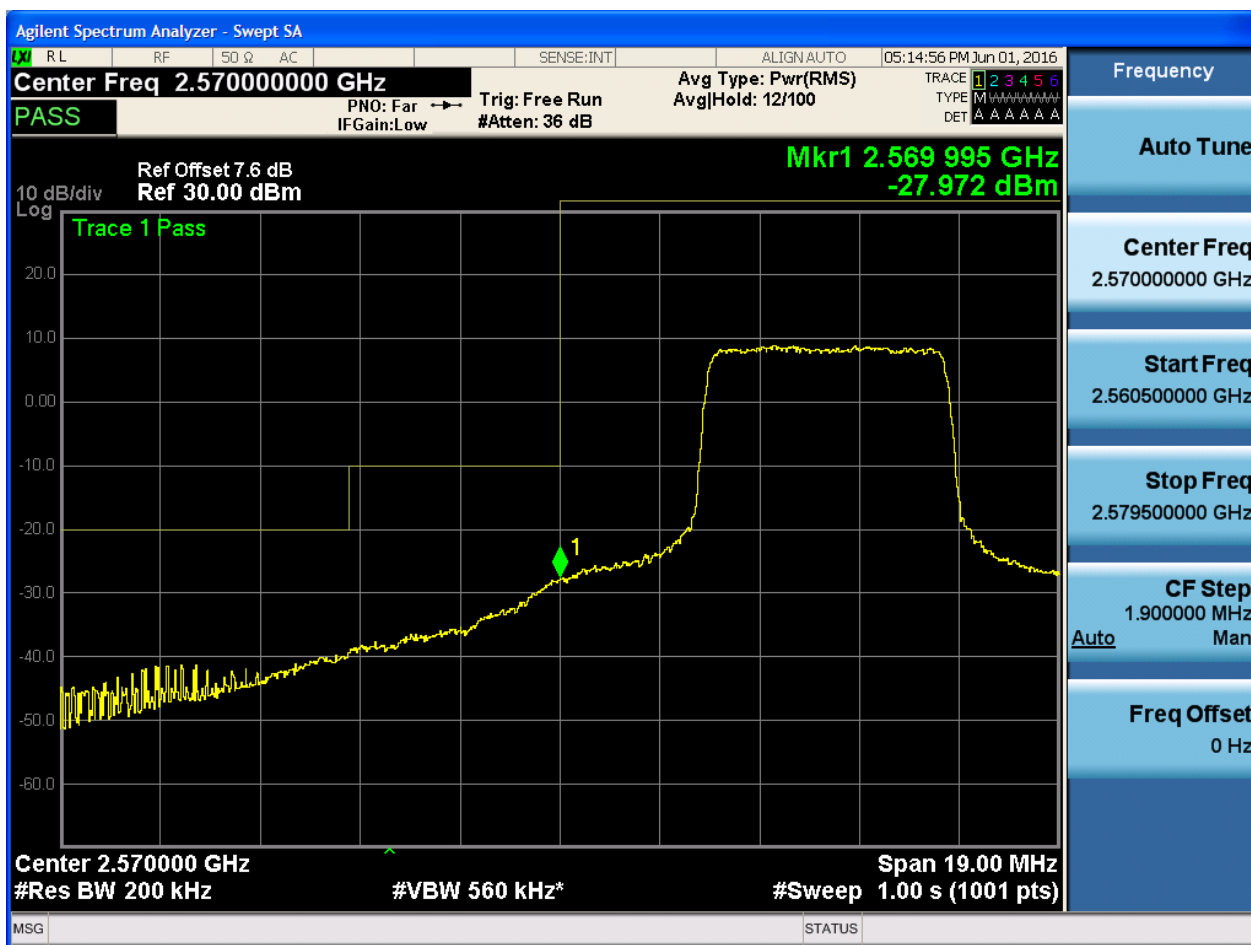


5.1.2.2.1.2 Test RB = RB1#49



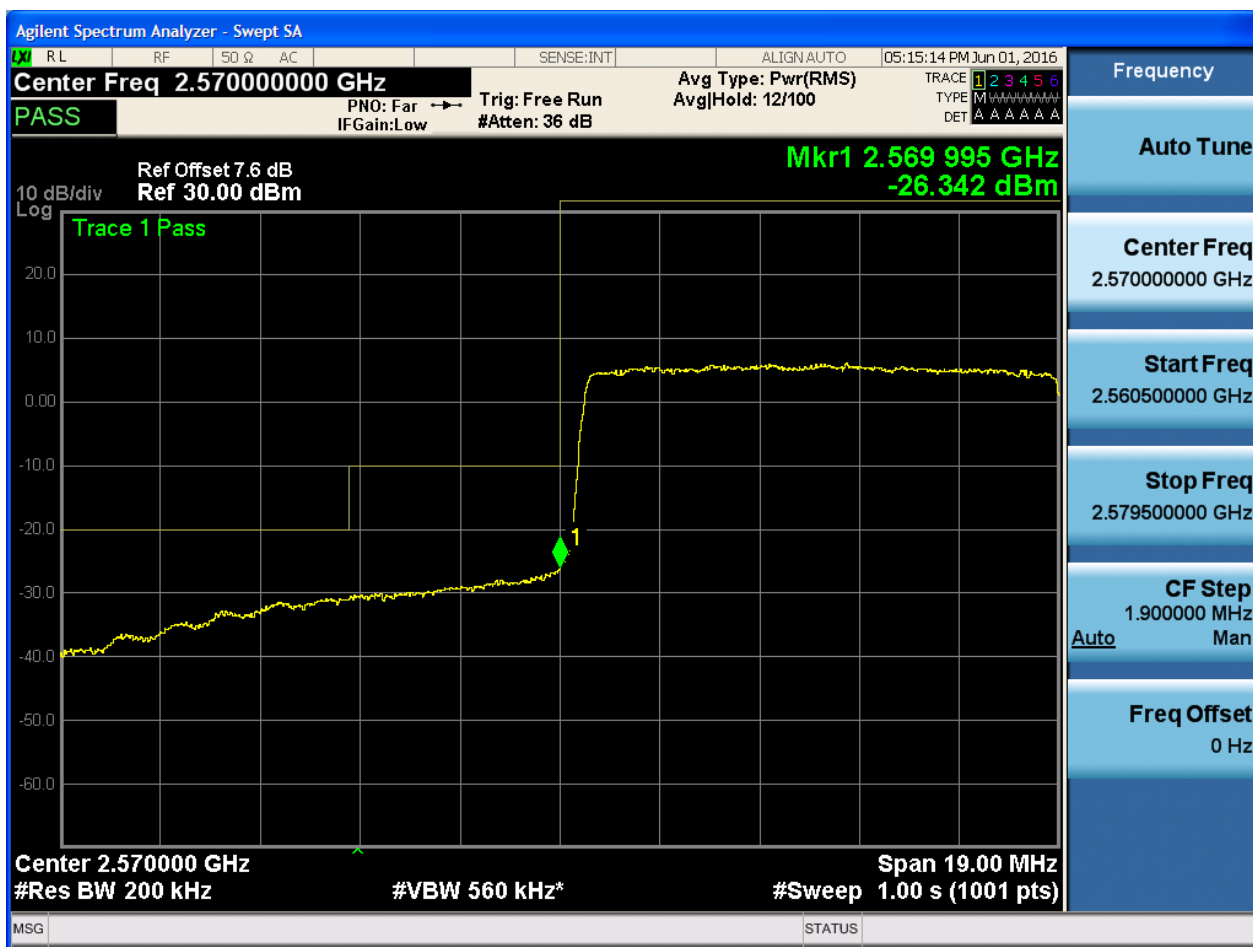


5.1.2.2.1.3 Test RB = RB25#13





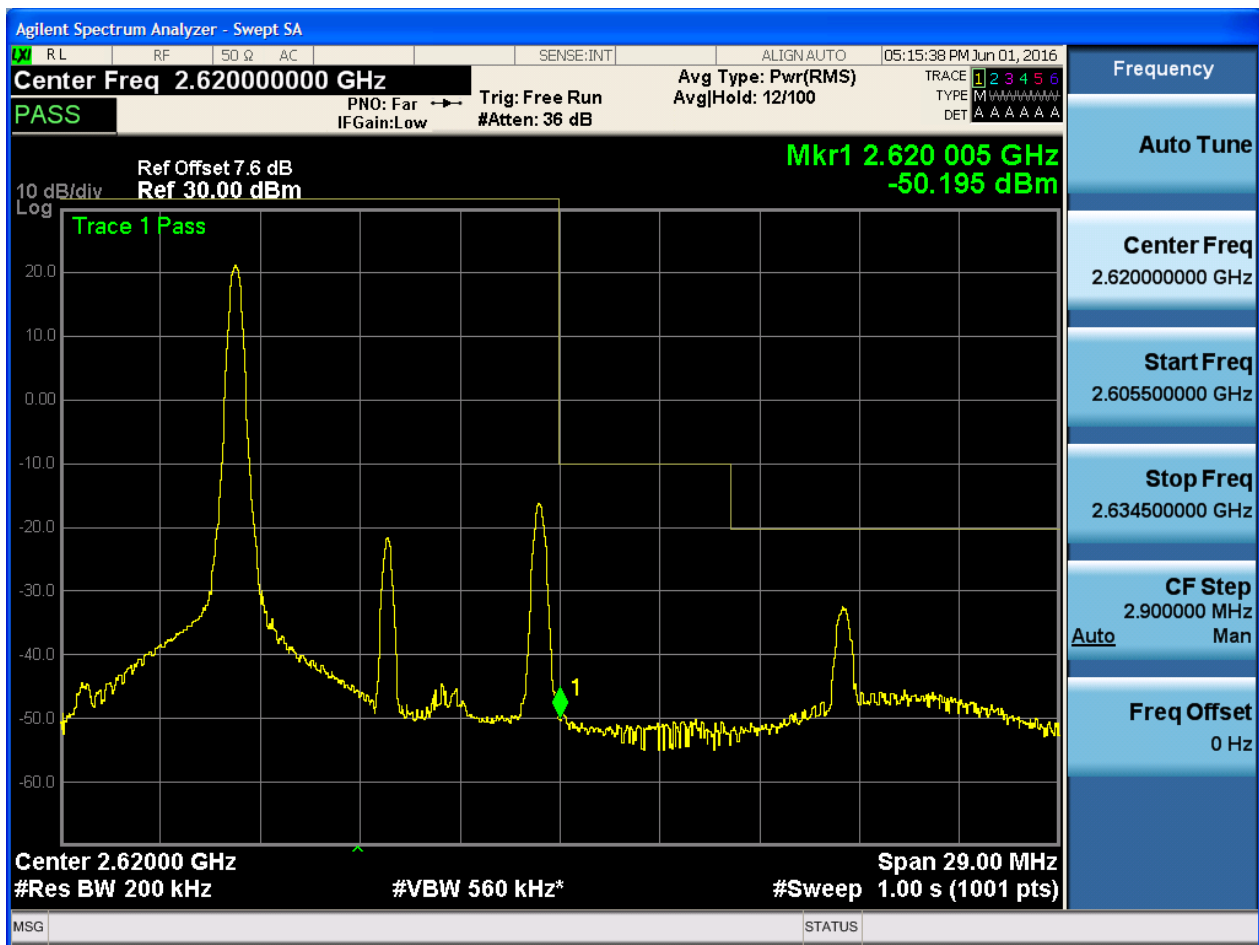
5.1.2.2.1.4 Test RB = RB50#0

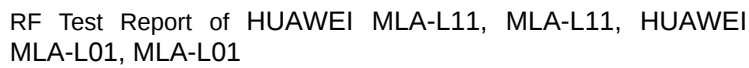




5.1.2.2.2 Test Channel = HCH

5.1.2.2.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.62000000 GHz

Ref Offset 7.6 dB
Ref 30.00 dBm

Mkr1 2.620 005 GHz
-24.074 dBm

Trace 1 Pass

Center 2.62000 GHz
#Res BW 200 kHz
#VBW 560 kHz*

Span 29.00 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.62000000 GHz

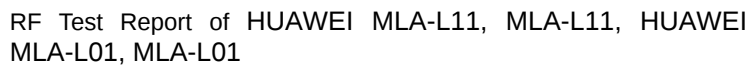
Start Freq
2.605500000 GHz

Stop Freq
2.634500000 GHz

CF Step
2.900000 MHz
Man

Freq Offset
0 Hz

The image shows a screenshot of an Agilent Spectrum Analyzer. The main display is a plot of the spectrum, showing a peak at 2.620005 GHz. The y-axis is labeled '10 dB/div Log' and ranges from -60.0 to 20.0. The x-axis is labeled 'Center 2.62000 GHz' and ranges from 2.605500000 GHz to 2.634500000 GHz. The peak is marked with a green diamond and labeled '1'. The text 'Trace 1 Pass' is visible in the top left of the plot area. The right side of the image contains a sidebar with various settings and parameters, including 'Frequency', 'Auto Tune', 'Center Freq', 'Start Freq', 'Stop Freq', 'CF Step', and 'Freq Offset'. The top of the image shows the instrument's name 'Agilent Spectrum Analyzer - Swept SA' and the date '05:15:56 PM Jun 01, 2016'.



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.62000000 GHz

Ref Offset 7.6 dB
Ref 30.00 dBm

Trace 1 Pass

10 dB/div
Log

Center 2.6200 GHz
#Res BW 200 kHz

Span 29.00 MHz
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq 2.62000000 GHz

Start Freq 2.605500000 GHz

Stop Freq 2.634500000 GHz

CF Step 2.900000 MHz
Man

Freq Offset 0 Hz

MSG STATUS



5.1.2.2.2.4 Test RB = RB50#0

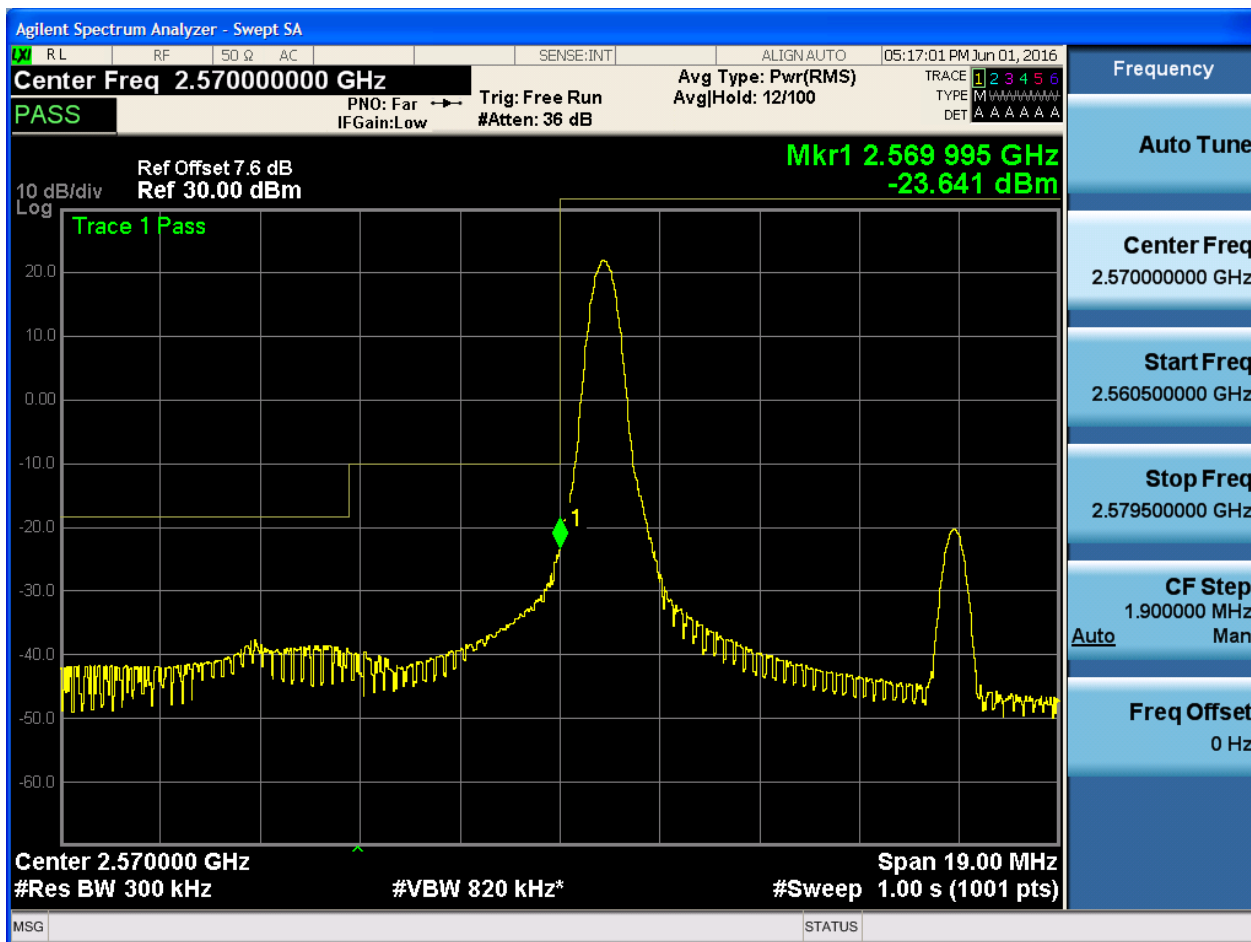


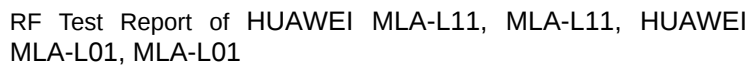


5.1.2.2.3 Test Bandwidth = 15

5.1.2.2.3.1 Test Channel = LCH

5.1.2.2.3.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.57000000 GHz

PASS

Ref Offset 7.6 dB
Ref 30.00 dBm

Trace 1 Pass

10 dB/div
Log

Mkr1 2.569 995 GHz
-47.529 dBm

Center 2.57000 GHz
#Res BW 300 kHz
#VBW 820 kHz*

Span 19.00 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.560500000 GHz

Stop Freq
2.579500000 GHz

CF Step
1.900000 MHz
Man

Auto

Freq Offset
0 Hz

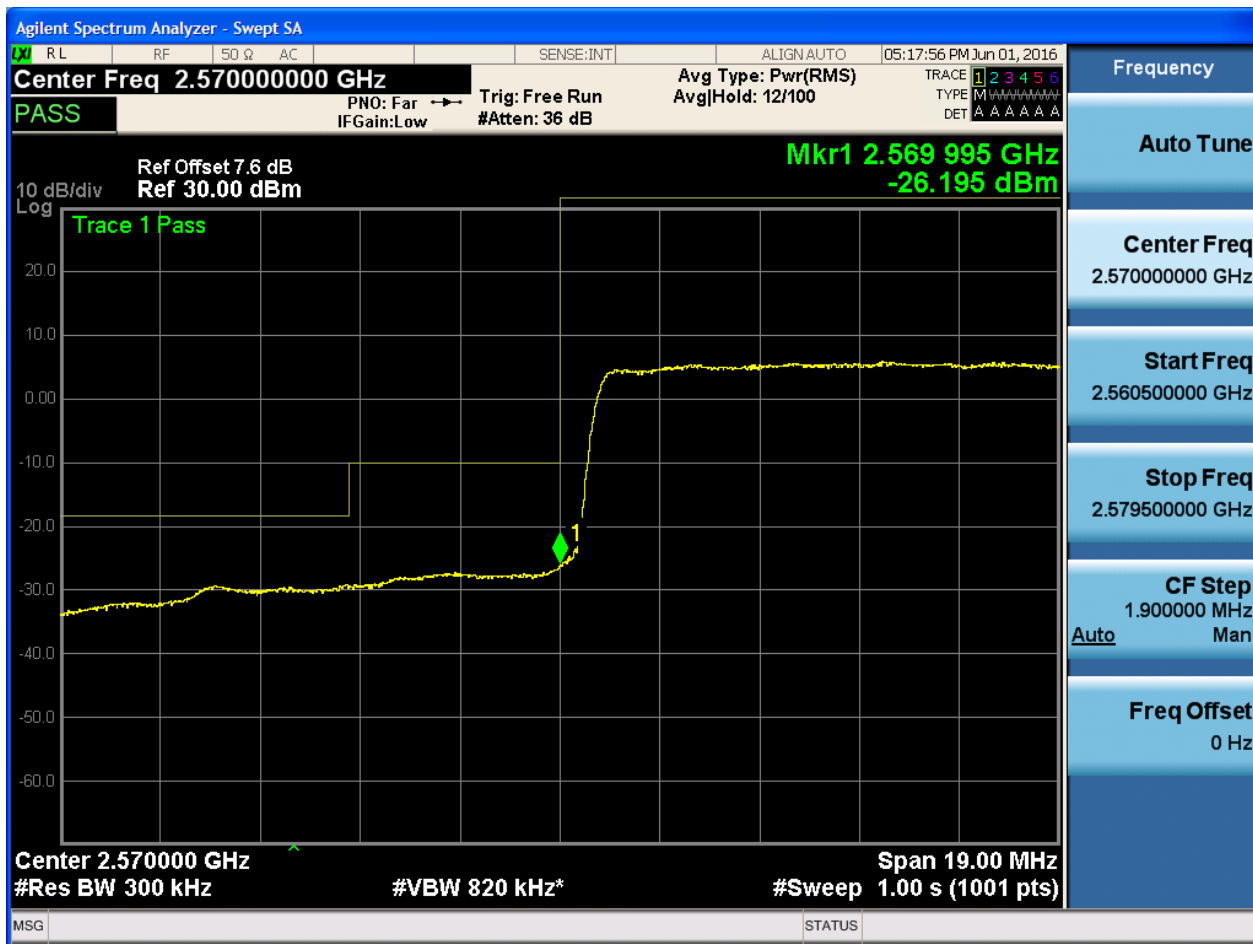


5.1.2.2.3.1.3 Test RB = RB36#18





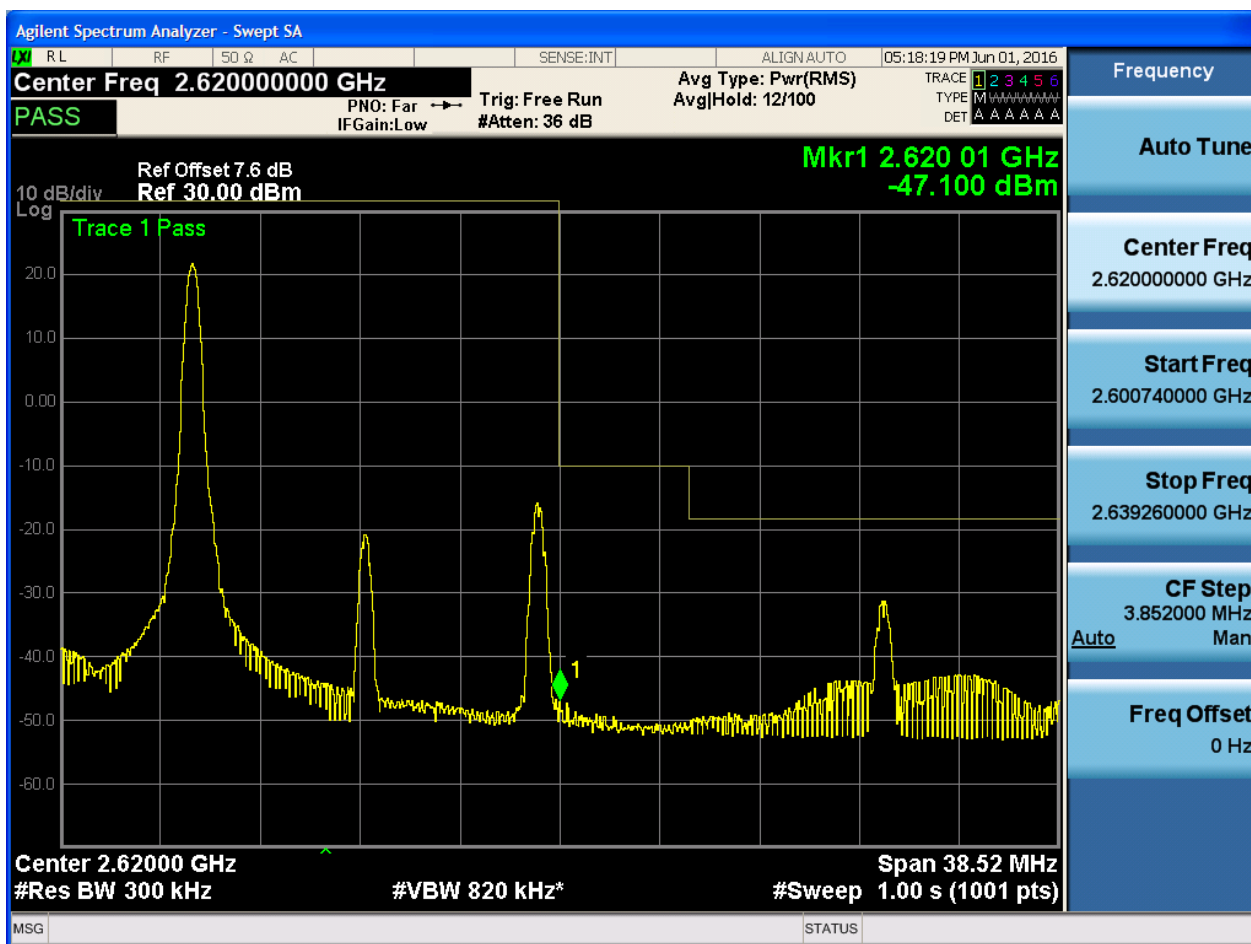
5.1.2.2.3.1.4 Test RB = RB75#0

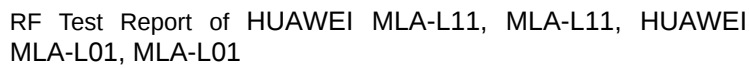




5.1.2.2.3.2 Test Channel = HCH

5.1.2.2.3.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.620000000 GHz

PASS

Ref Offset 7.6 dB
Ref 30.00 dBm

Mkr1 2.620 01 GHz
-22.589 dBm

Trace 1 Pass

Center 2.62000 GHz
#Res BW 300 kHz

#VBW 820 kHz*

Span 38.52 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.620000000 GHz

Start Freq
2.600740000 GHz

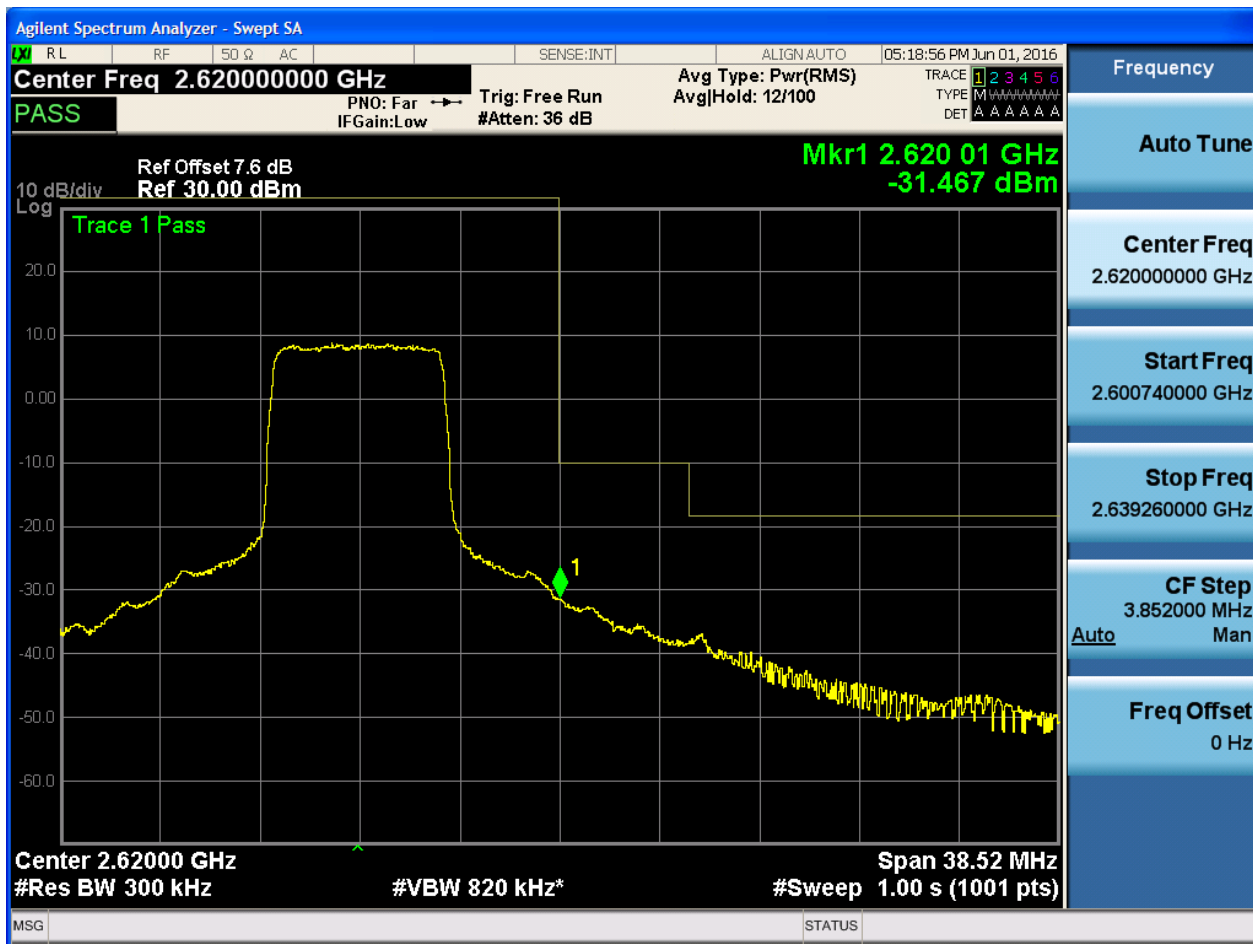
Stop Freq
2.639260000 GHz

CF Step
3.852000 MHz
Man

Freq Offset
0 Hz



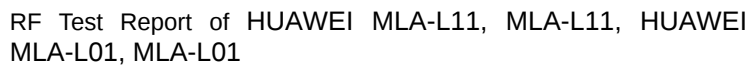
5.1.2.2.3.2.3 Test RB = RB36#18



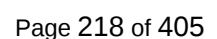


5.1.2.2.3.2.4 Test RB = RB75#0



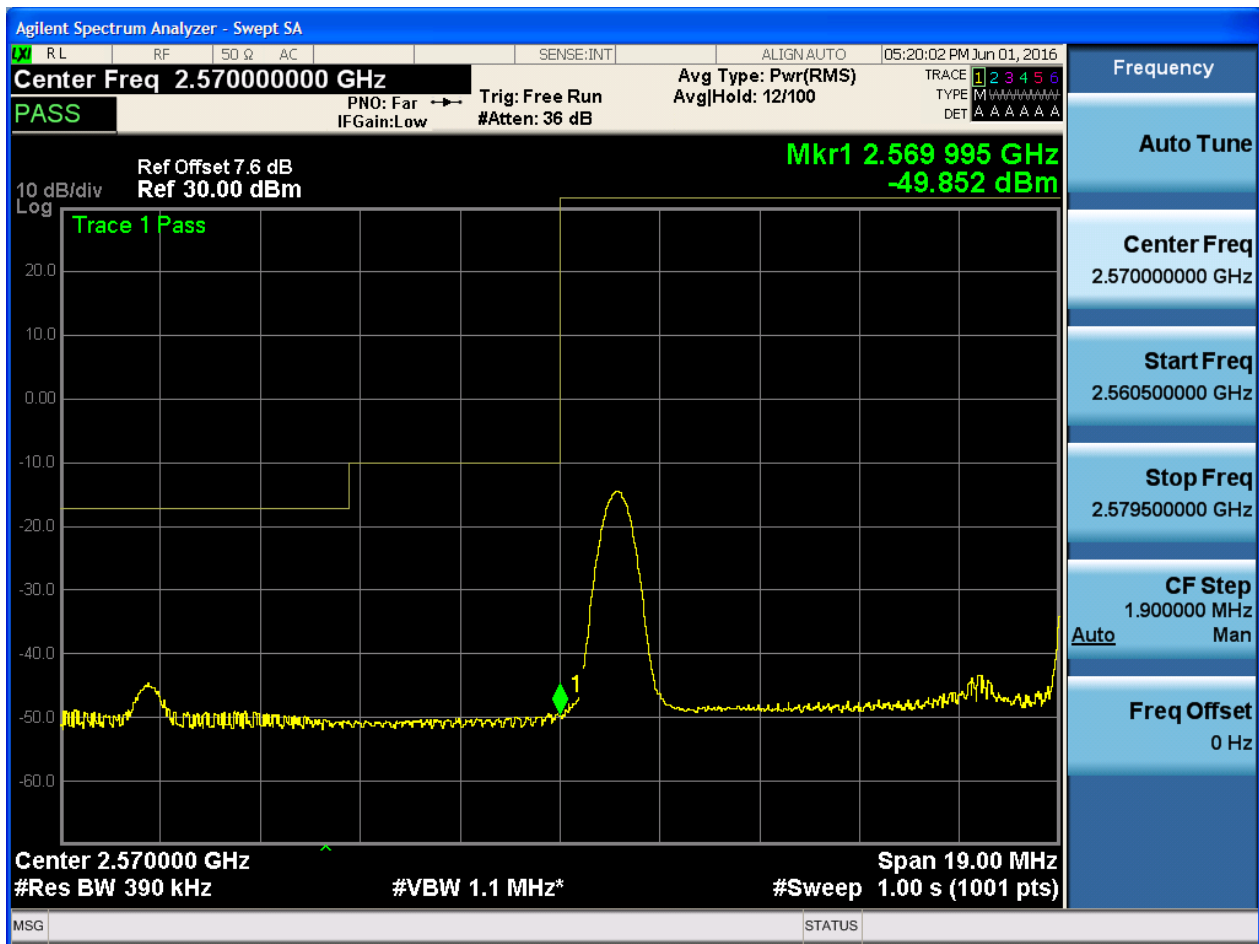


5.1.2.2.4.1.1 Test RB = RB1#0



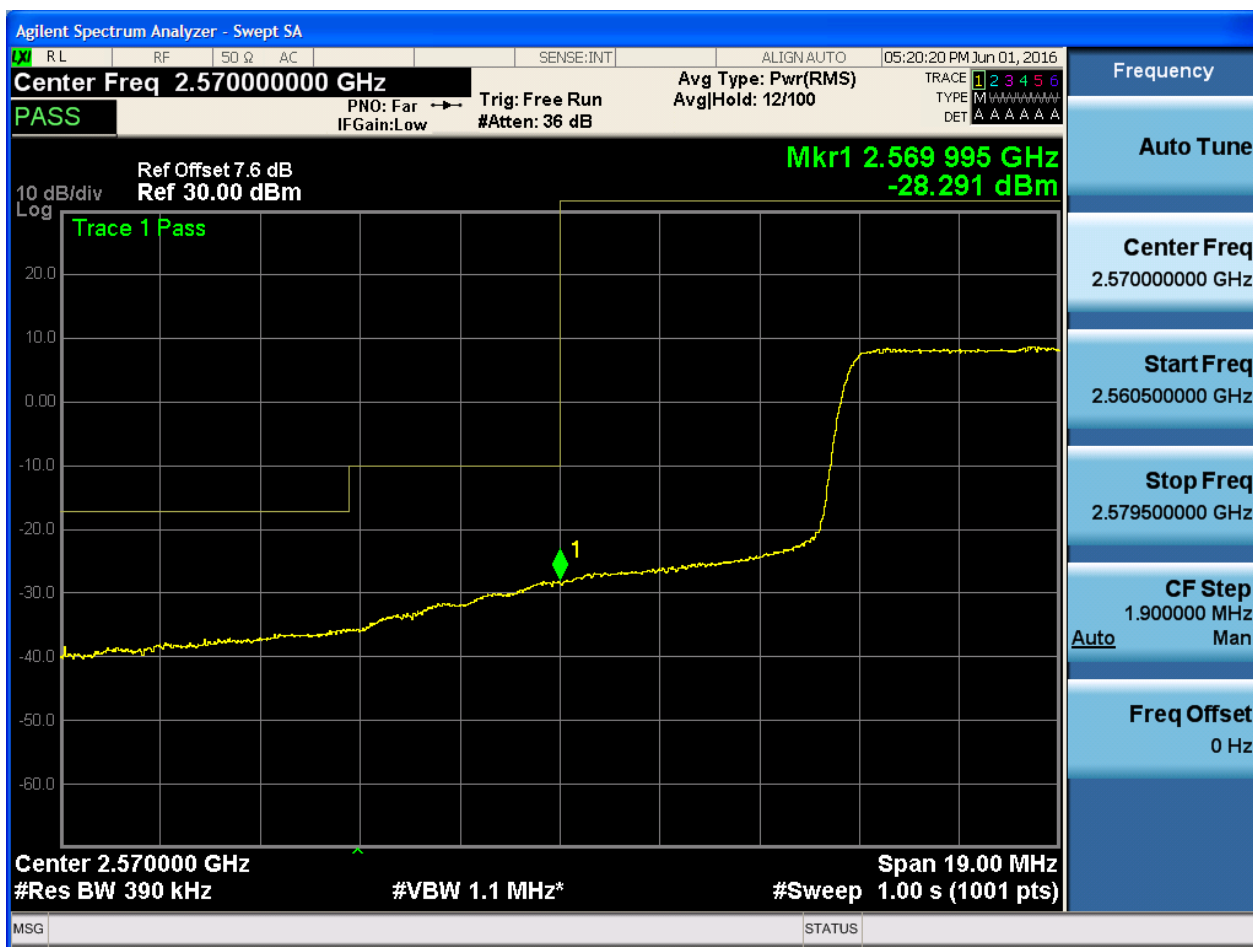


5.1.2.2.4.1.2 Test RB = RB1#99





5.1.2.2.4.1.3 Test RB = RB50#25





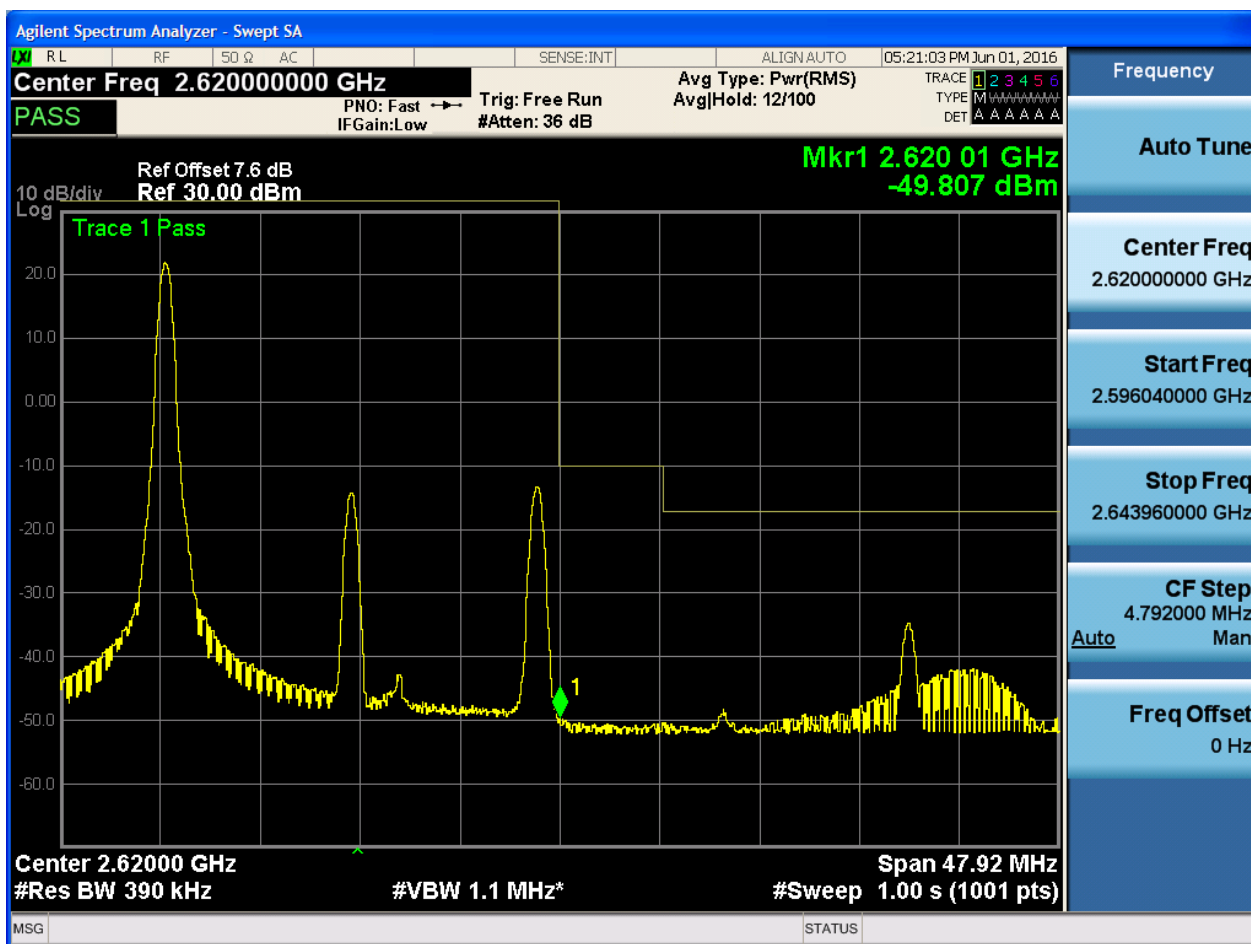
5.1.2.2.4.1.4 Test RB = RB100#0





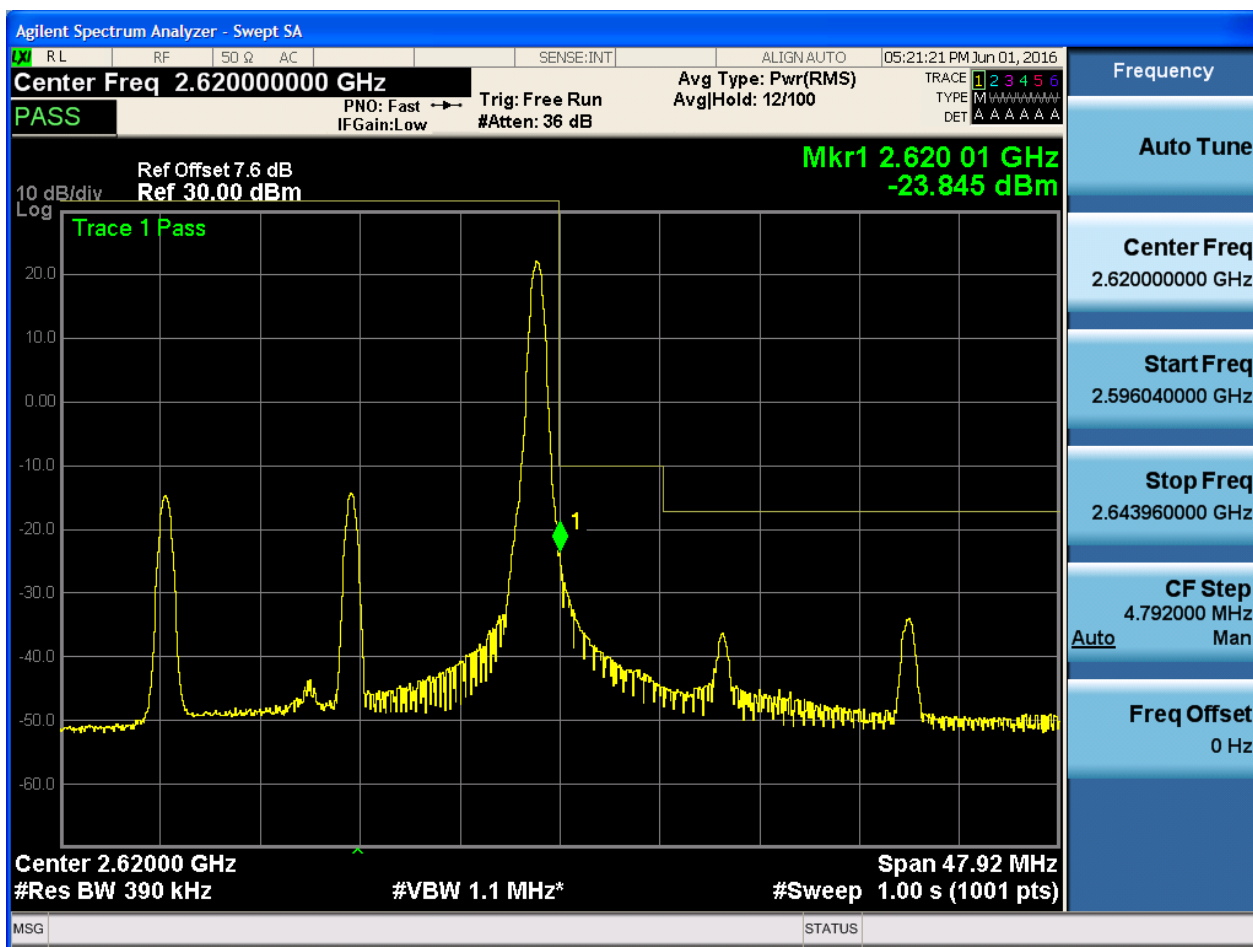
5.1.2.2.4.2 Test Channel = HCH

5.1.2.2.4.2.1 Test RB = RB1#0



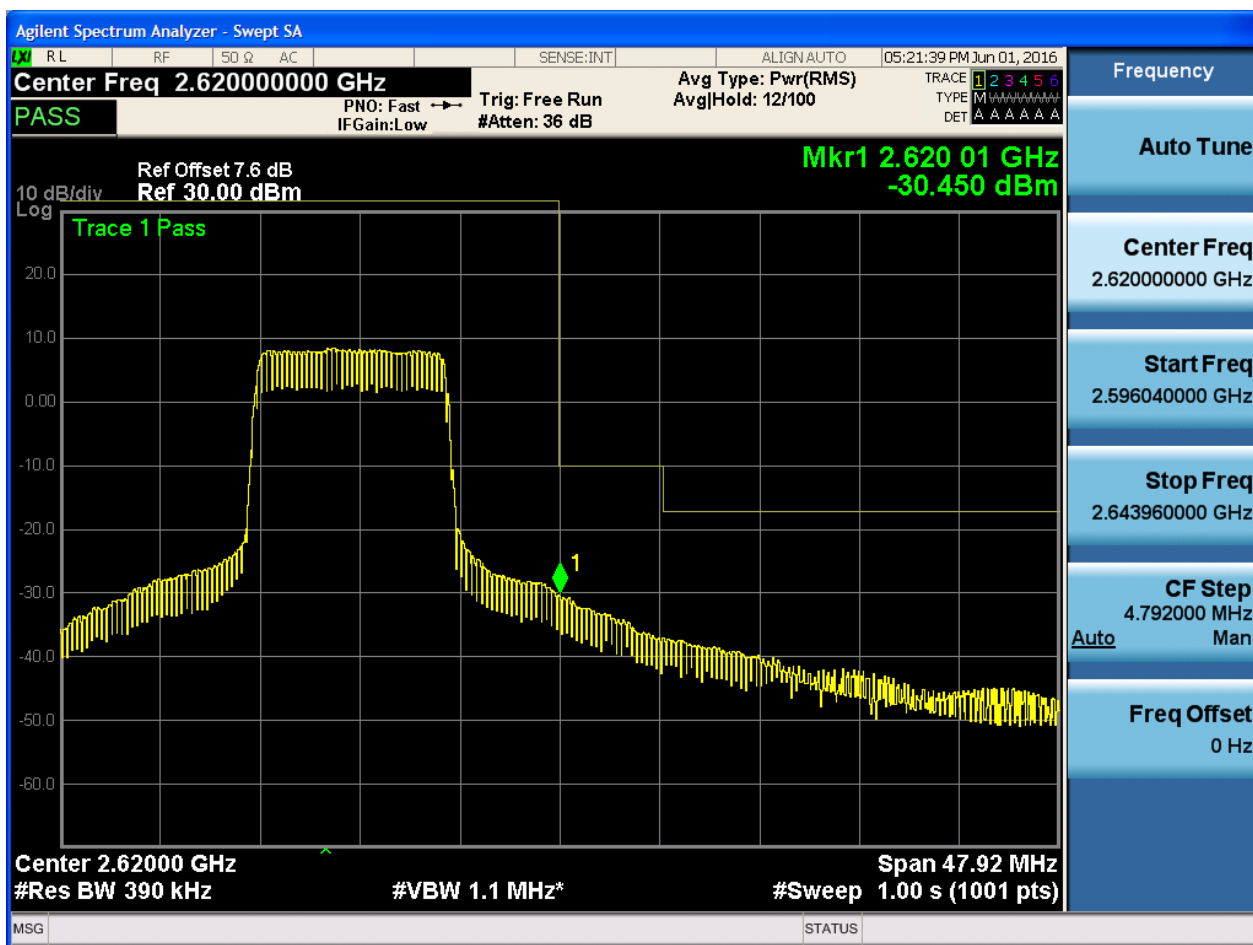


5.1.2.2.4.2.2 Test RB = RB1#99





5.1.2.2.4.2.3 Test RB = RB50#25





5.1.2.2.4.2.4 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 LTE

6.1.1 Test Band = BAND7

6.1.1.1 Test Mode = LTE/TM1

6.1.1.1.1 Test Bandwidth = 5

6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0

