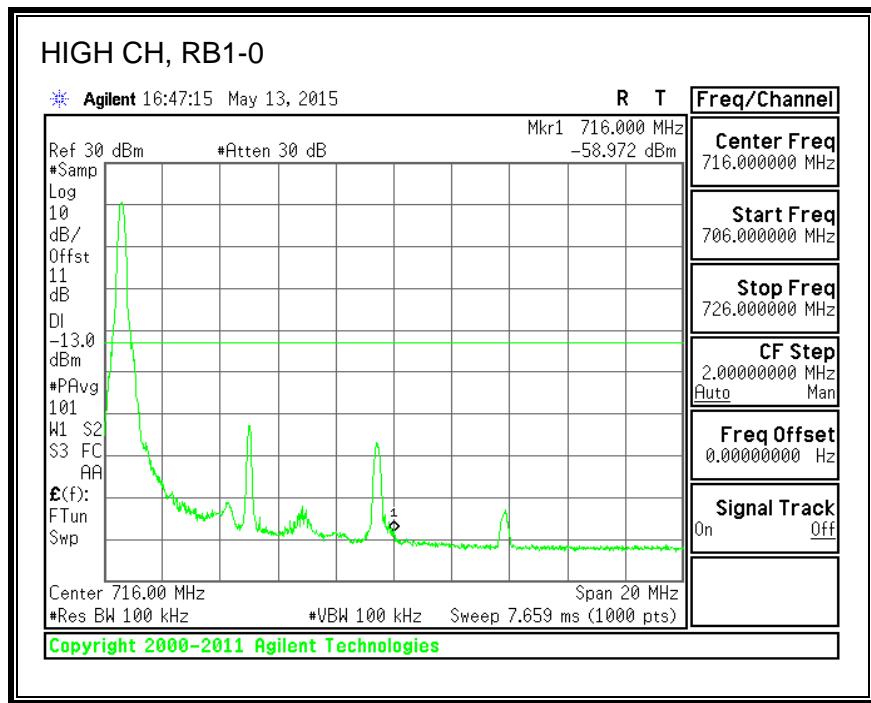
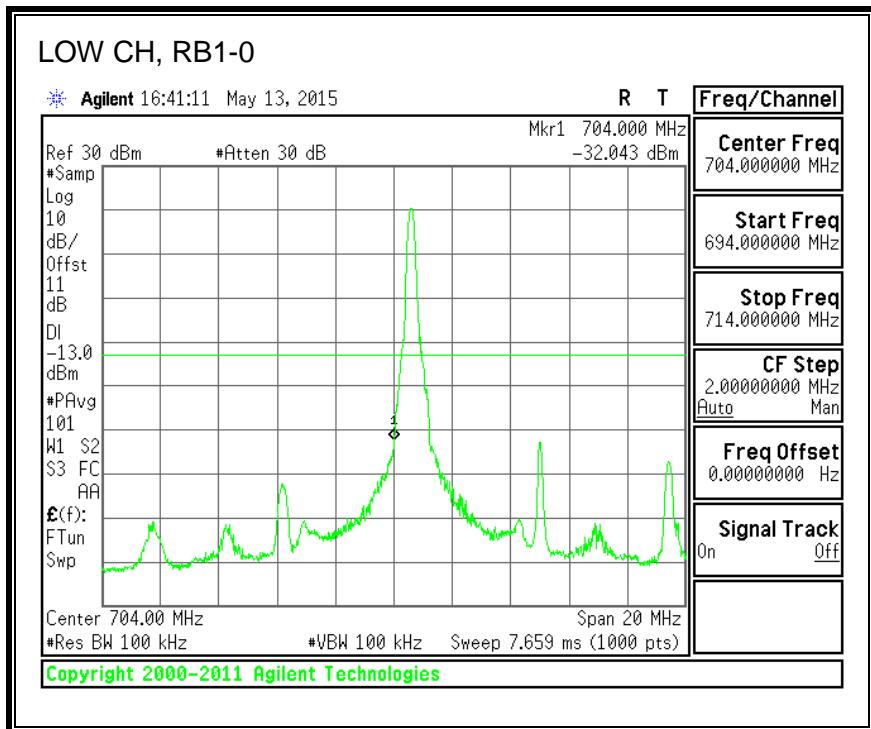
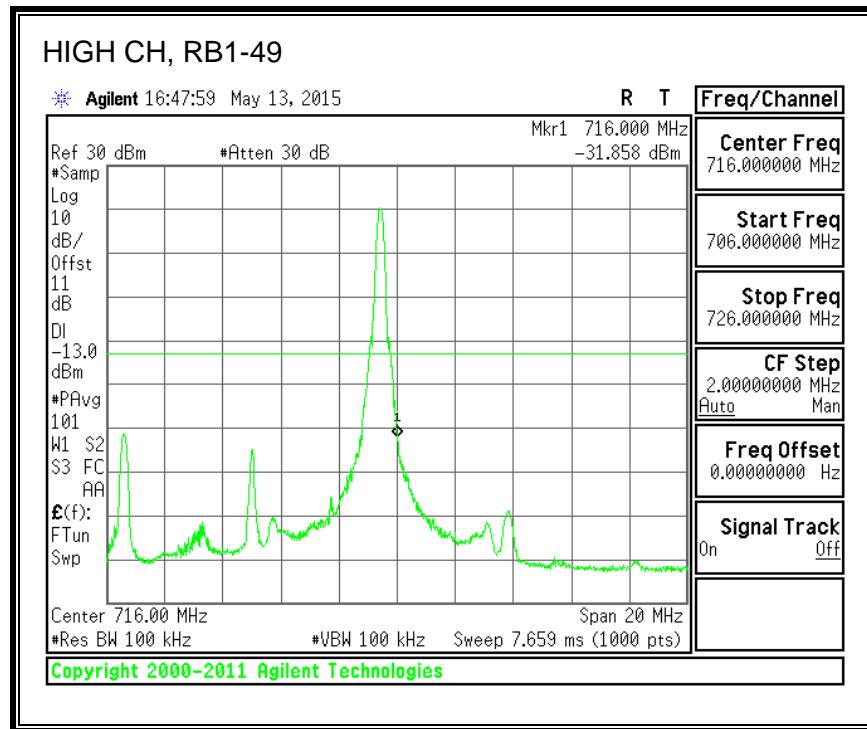
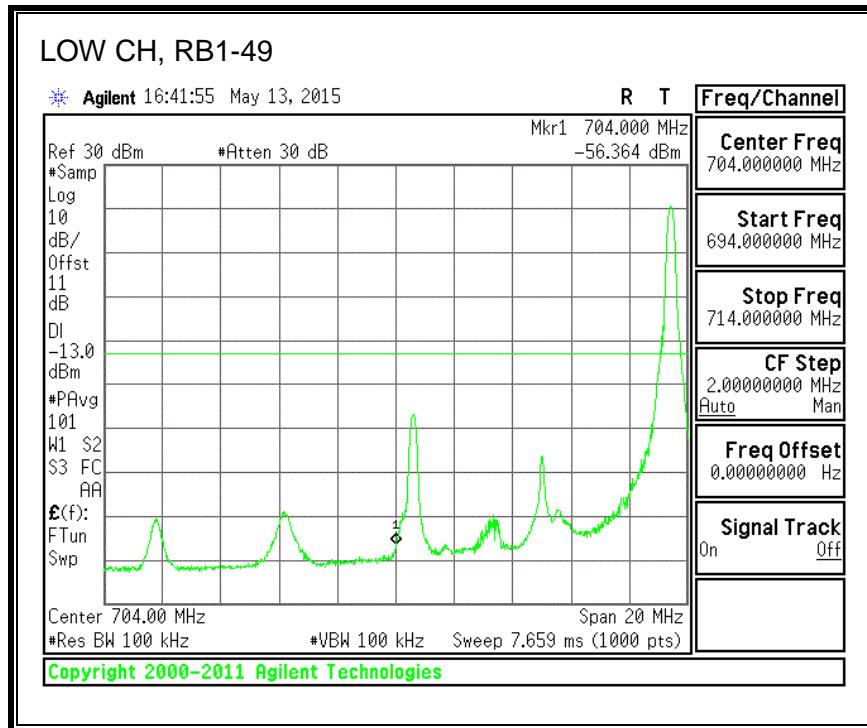
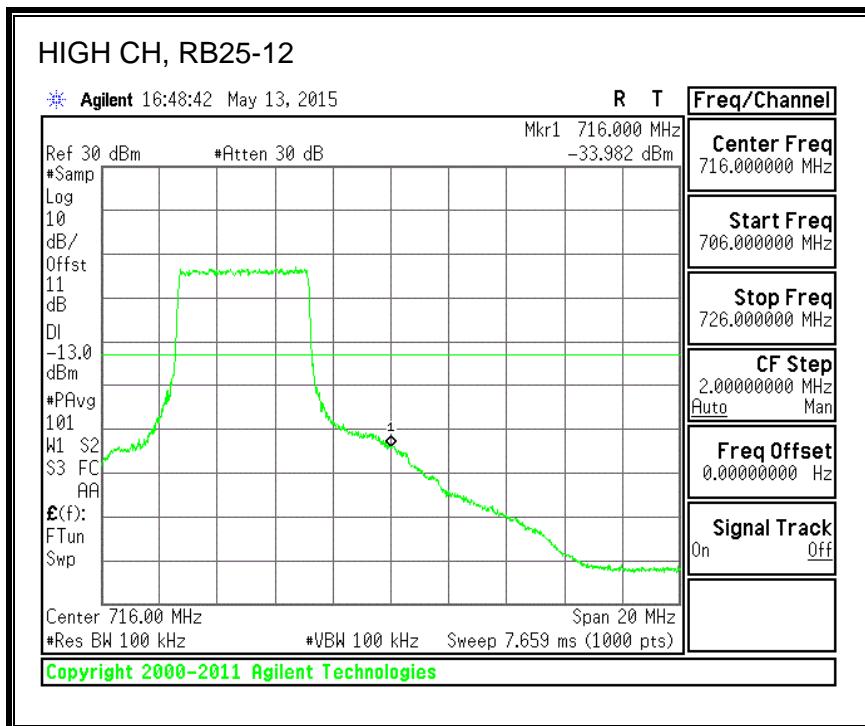
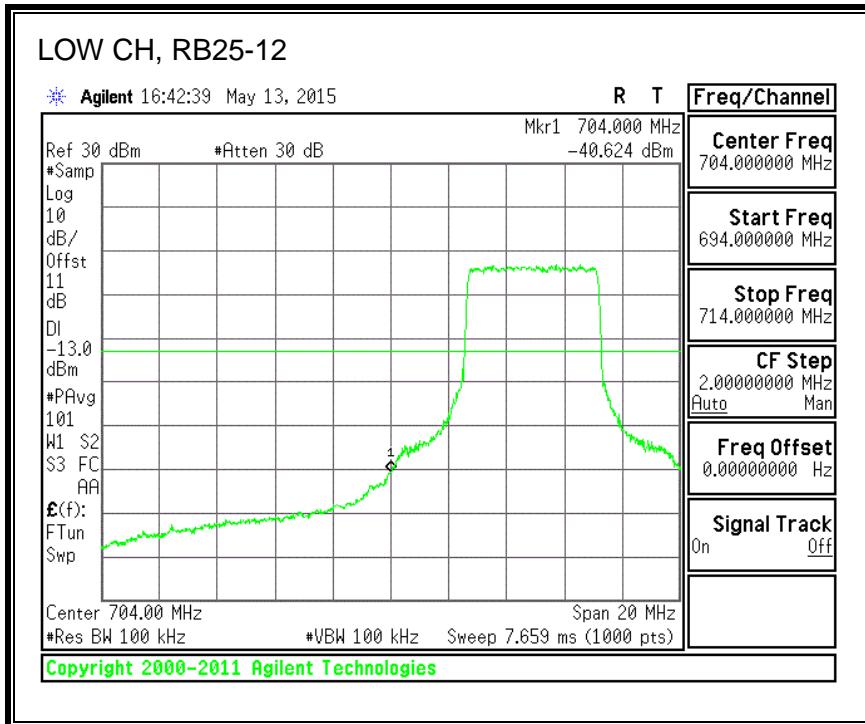
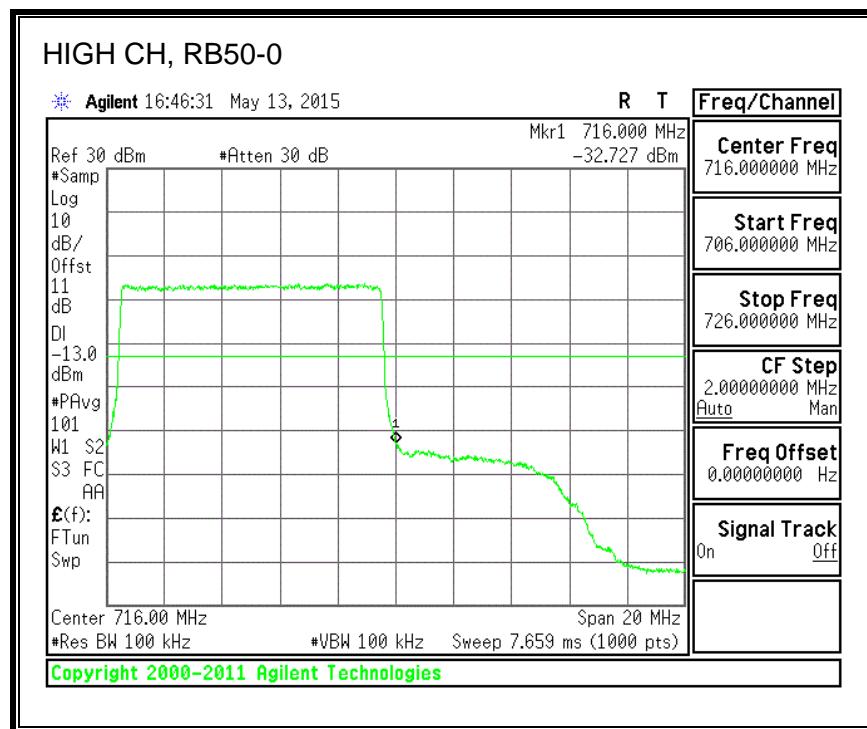
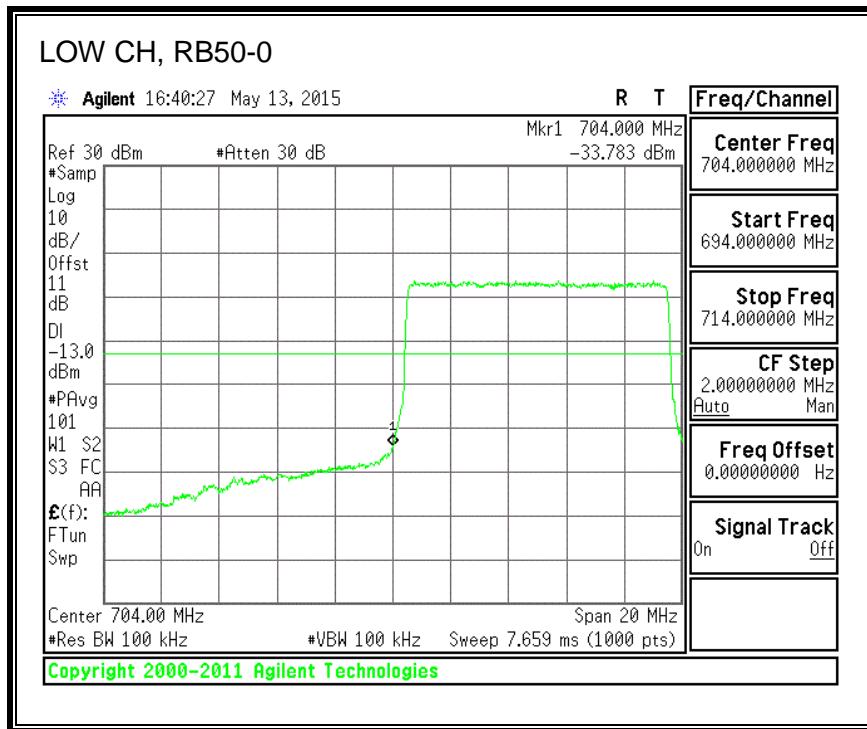


**16QAM, (10.0 MHz BAND WIDTH)**

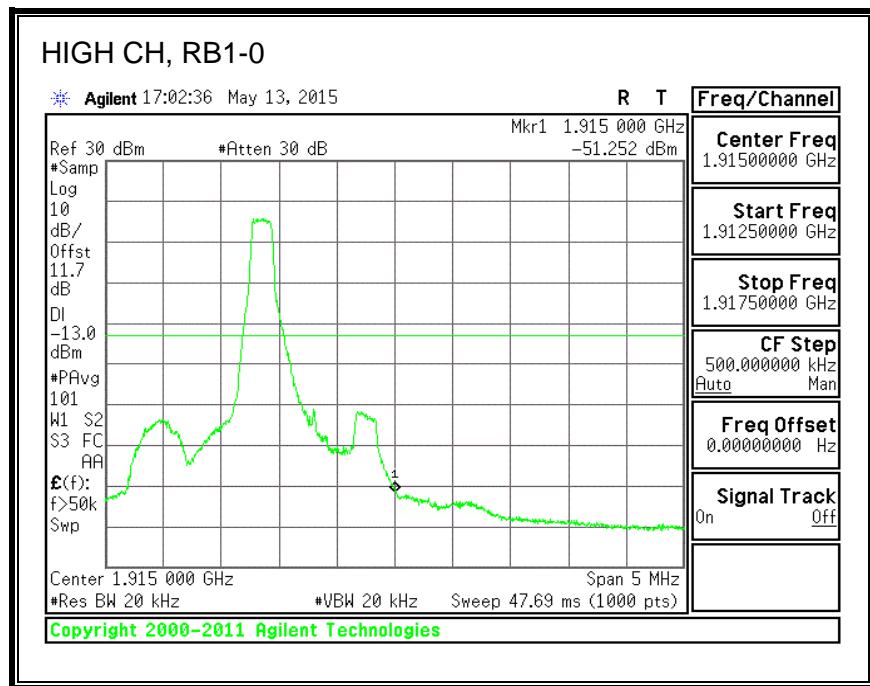
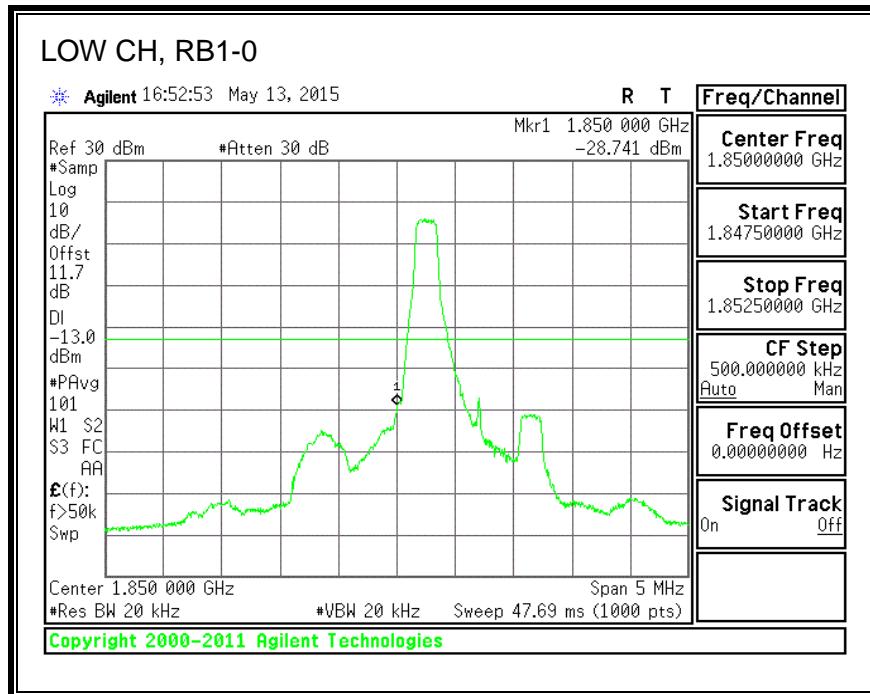


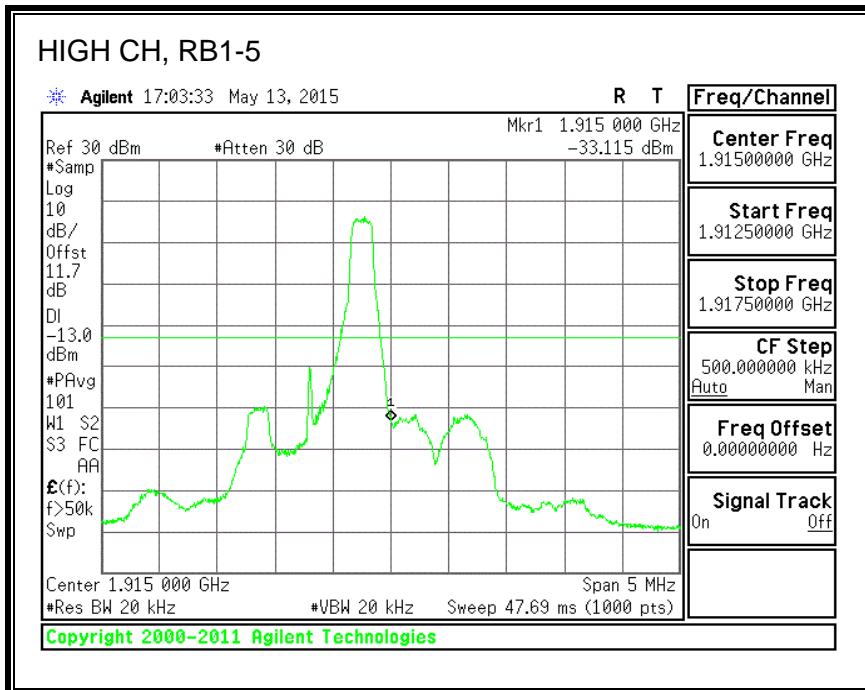
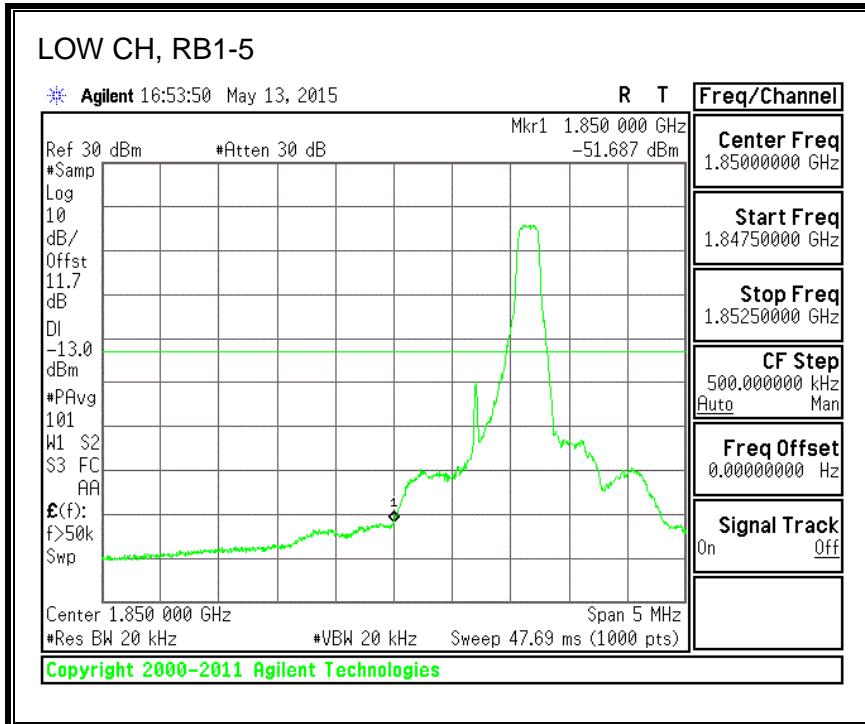




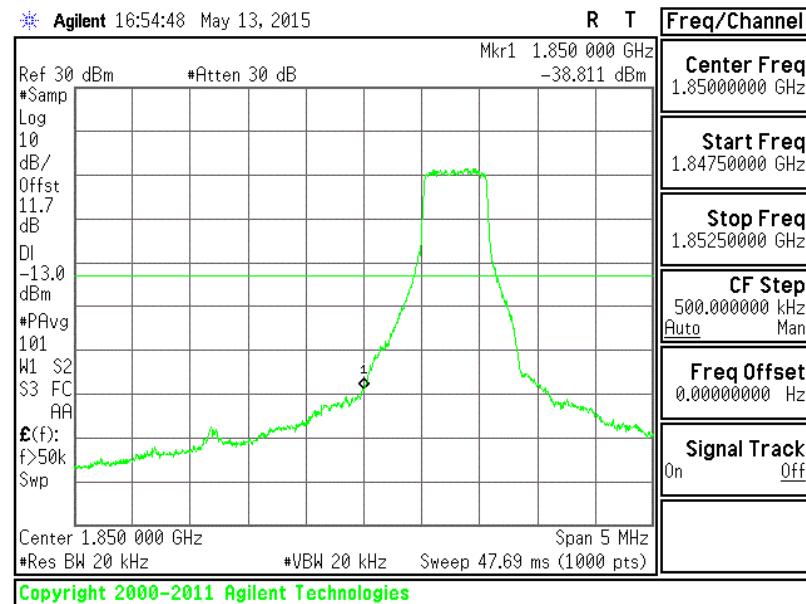
### 8.4.8. LTE BAND 25 BANDEDGE

#### QPSK, (1.4 MHz BAND WIDTH)

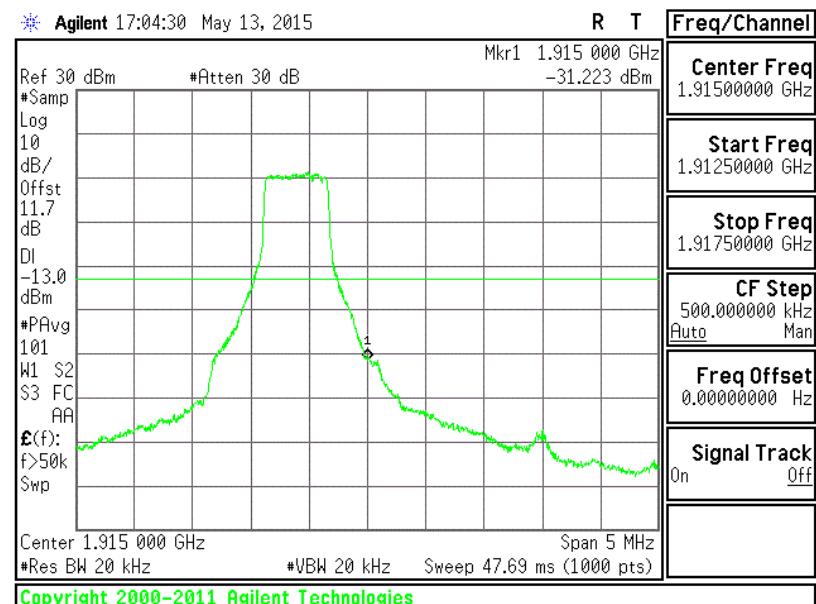


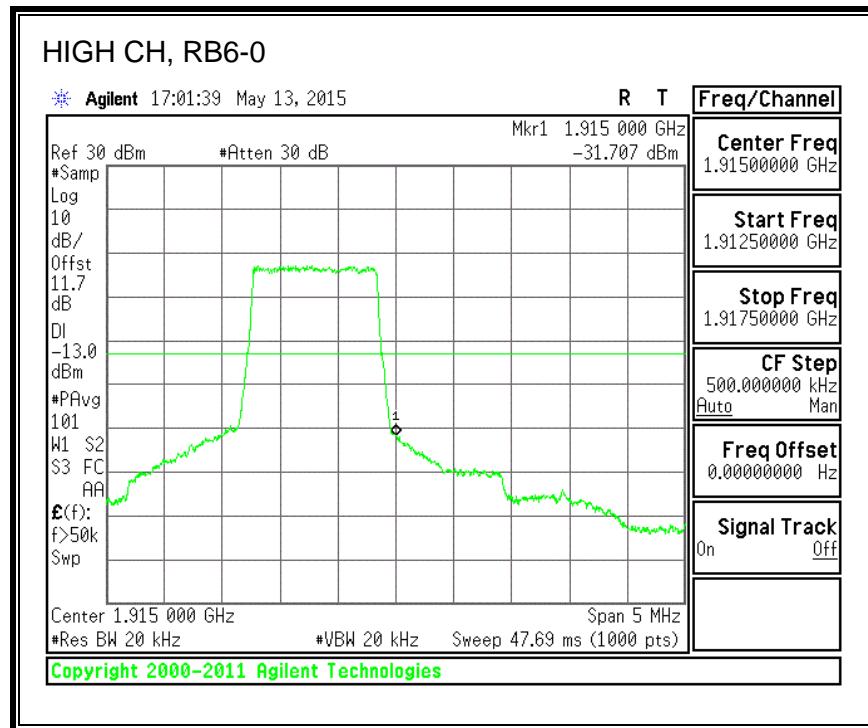
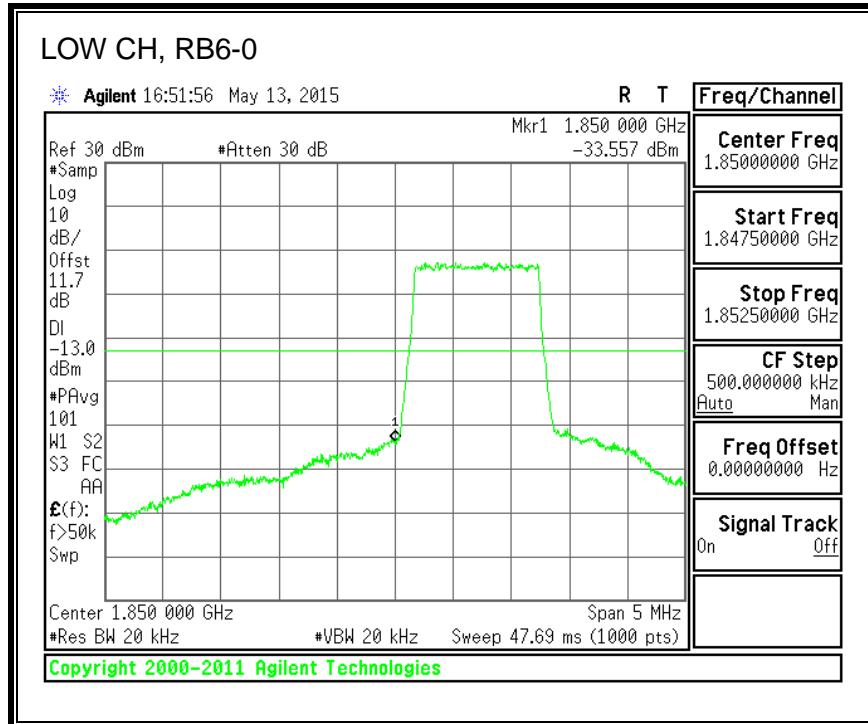


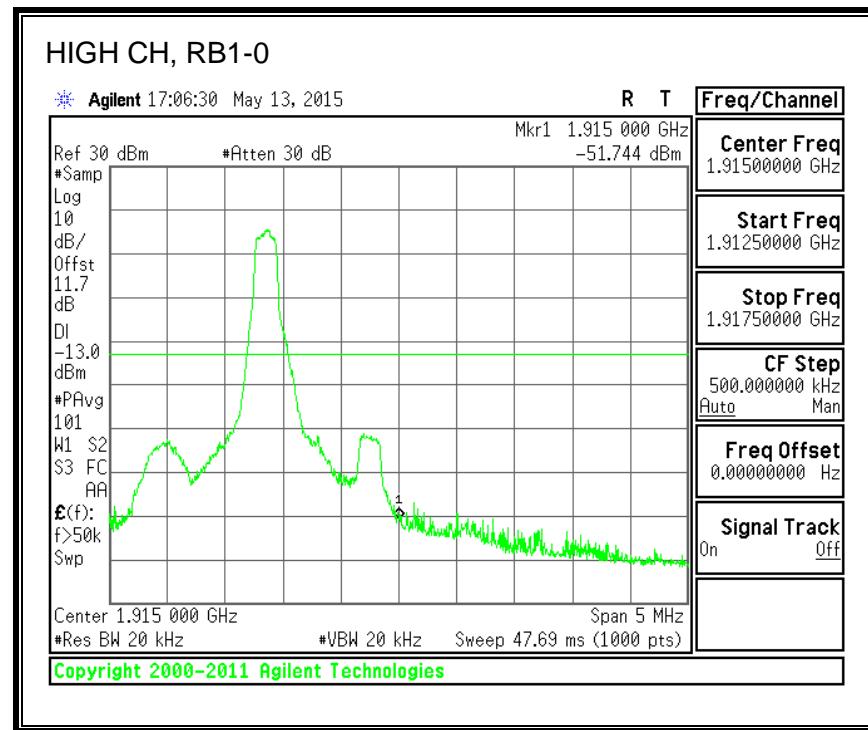
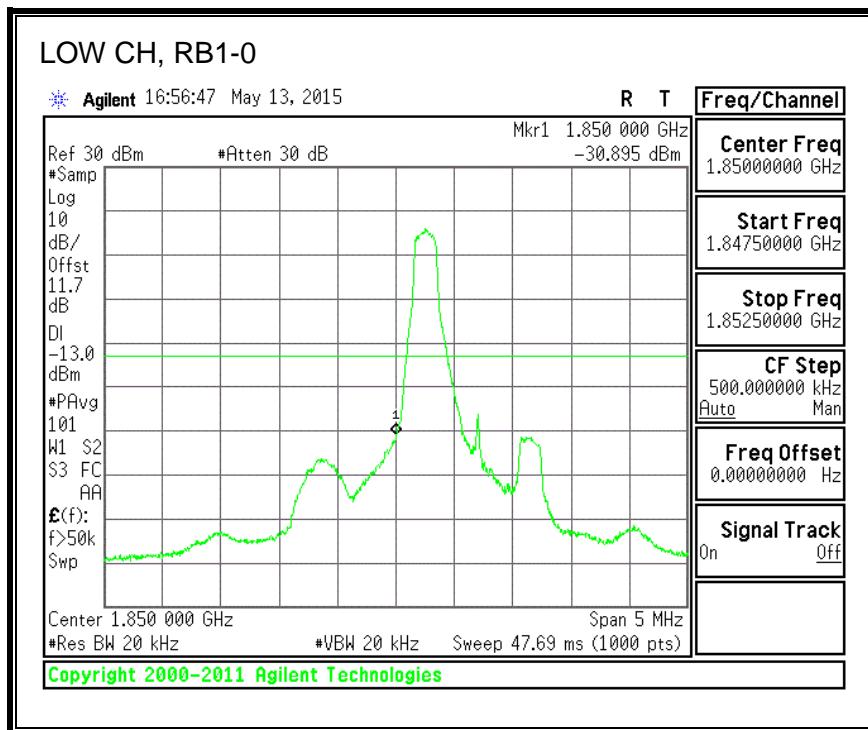
## LOW CH, RB3-2

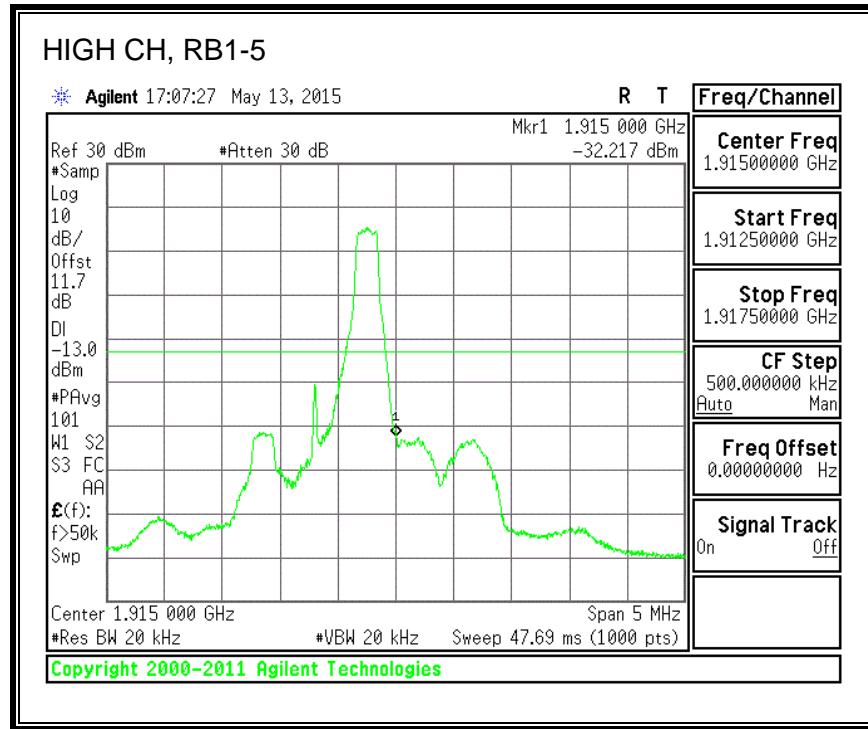
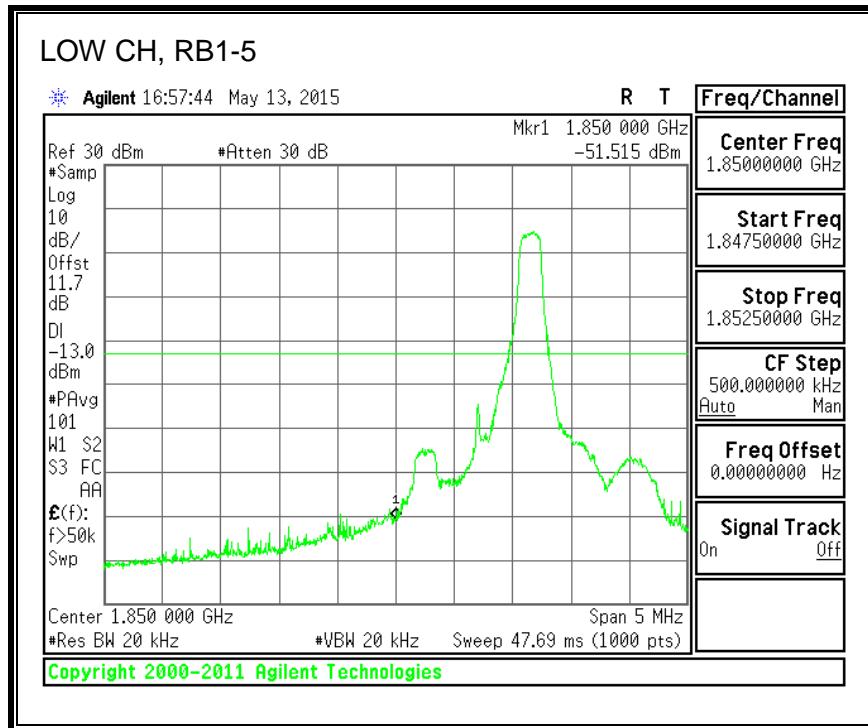


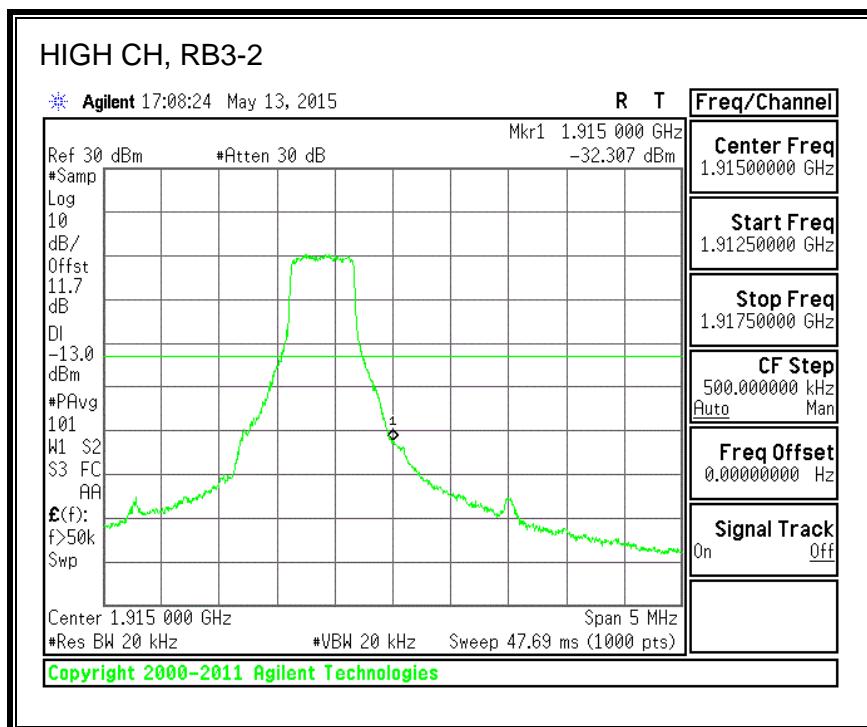
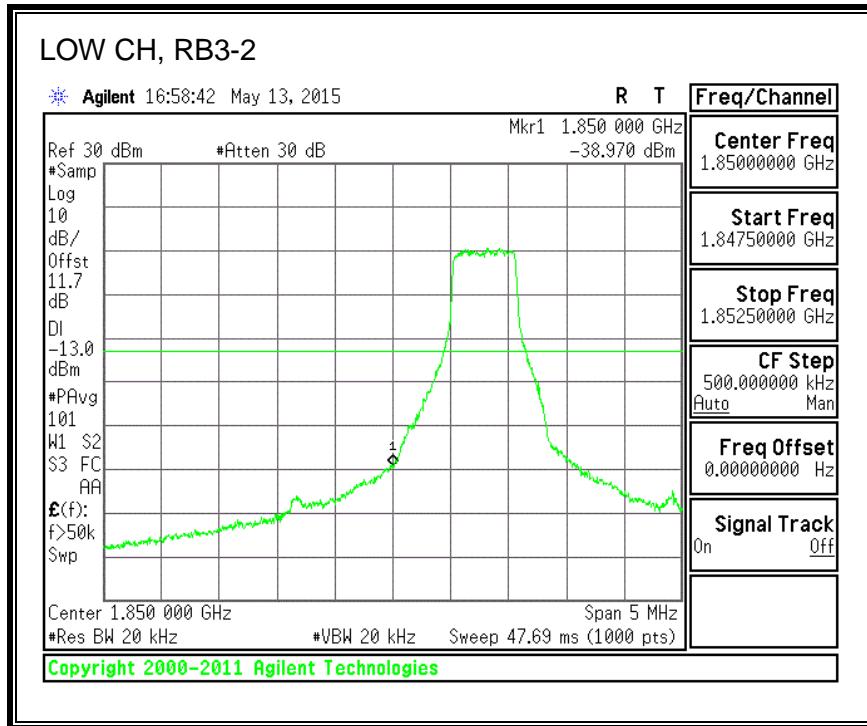
## HIGH CH, RB3-2

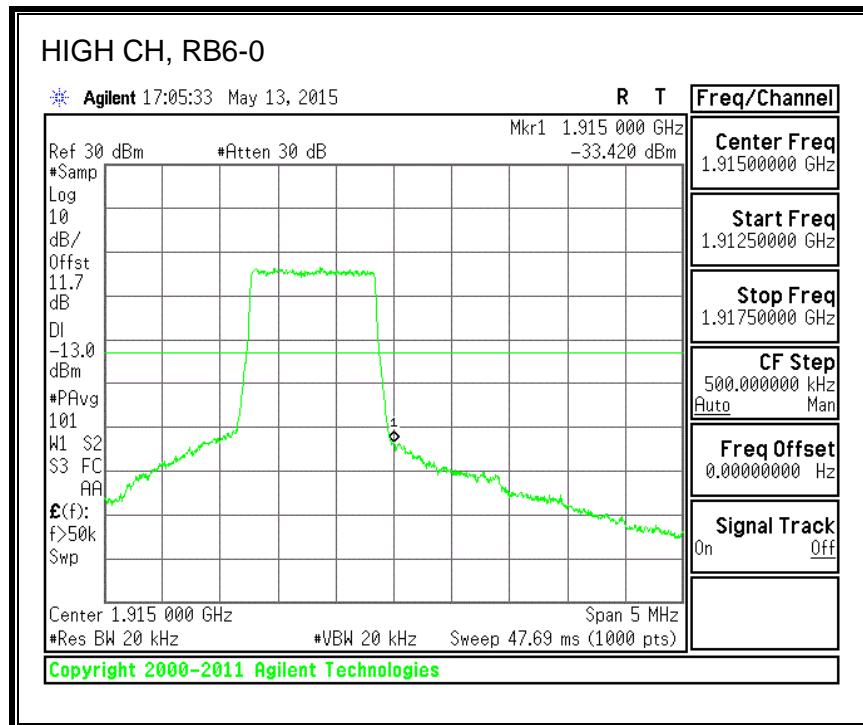
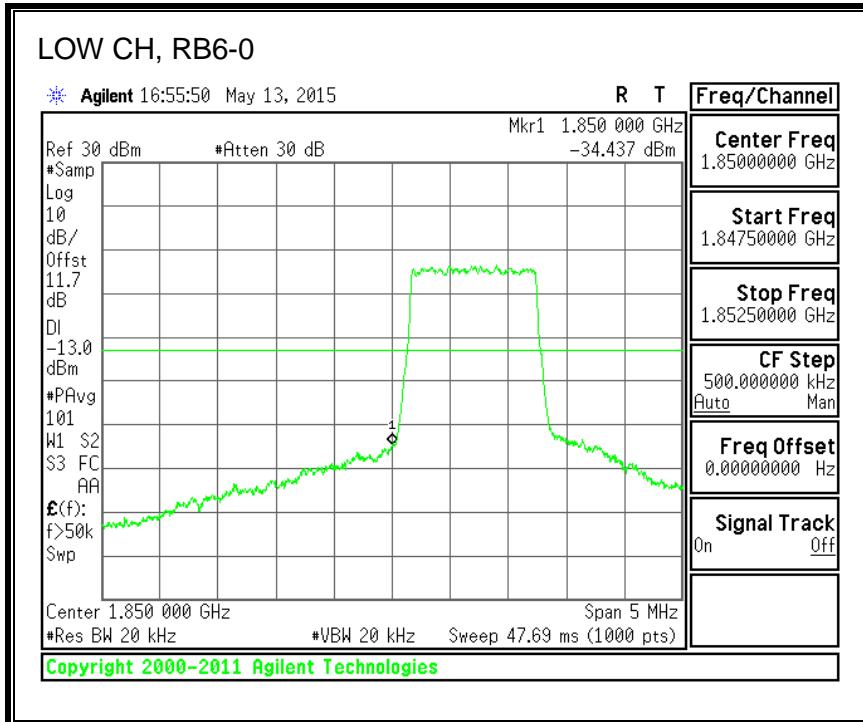


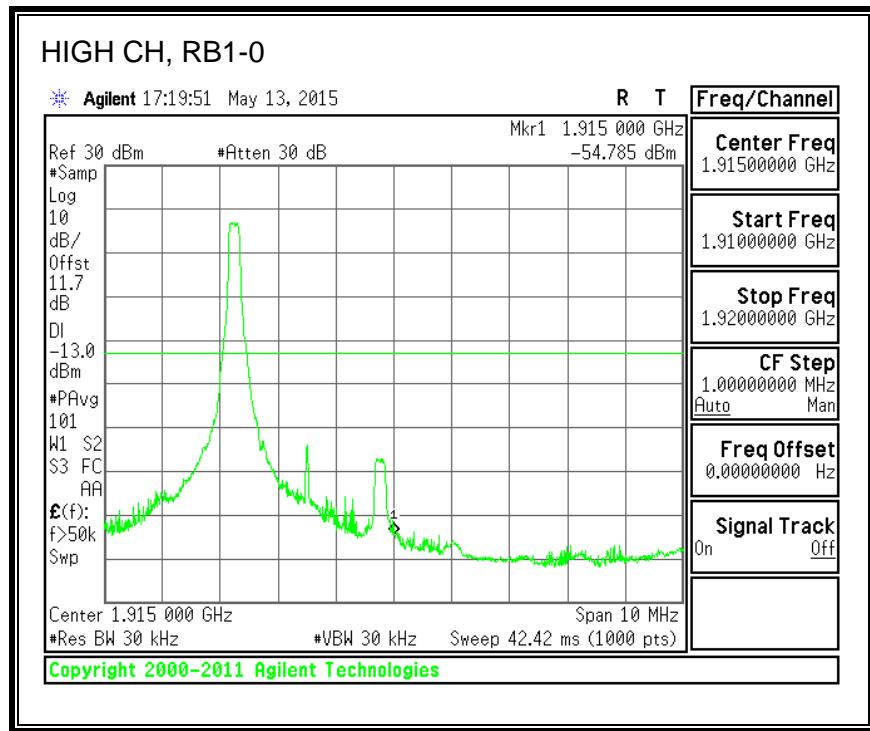
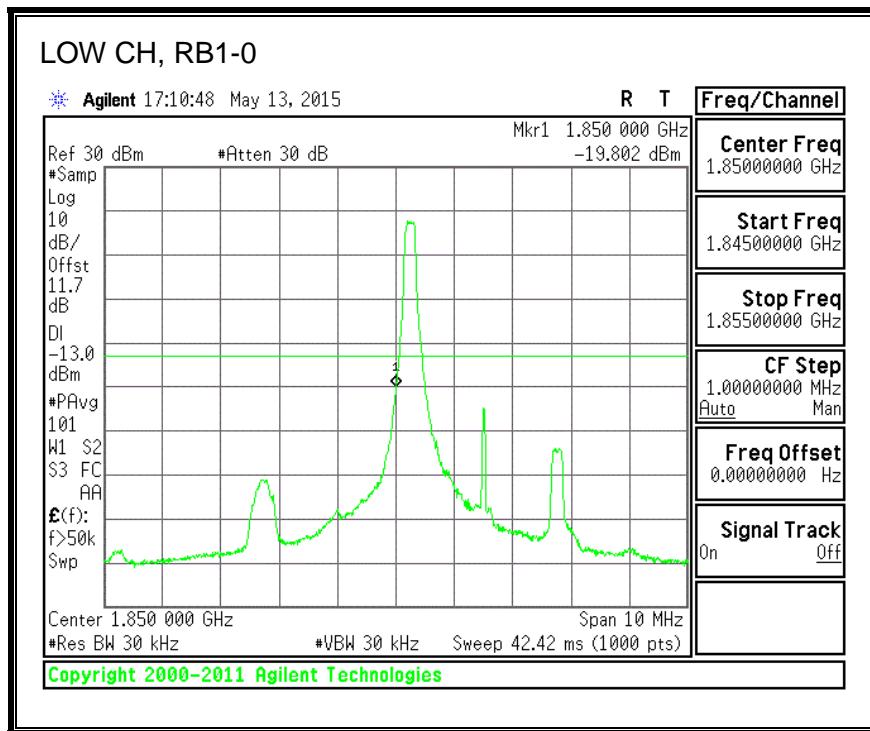


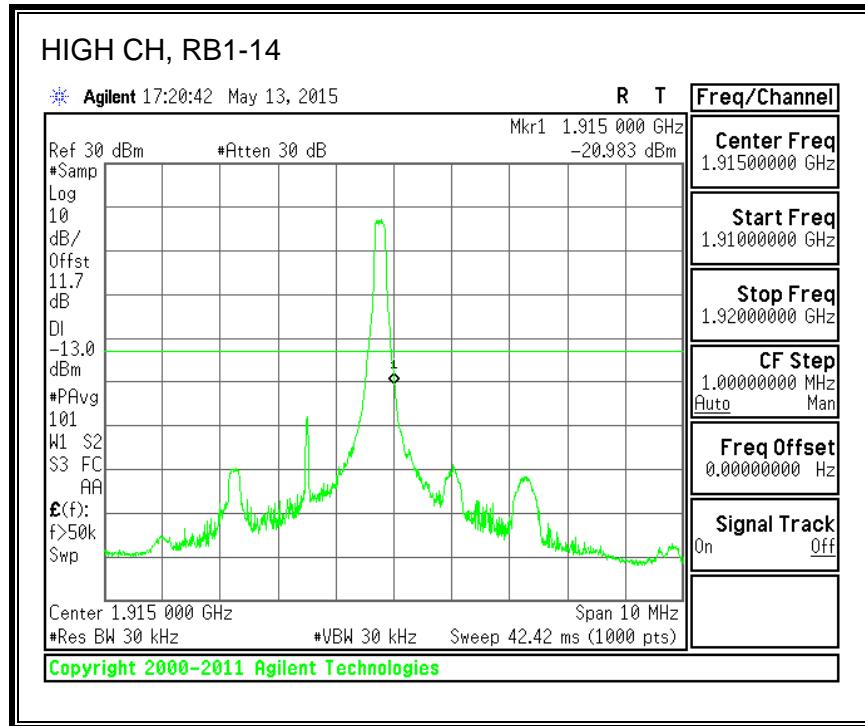
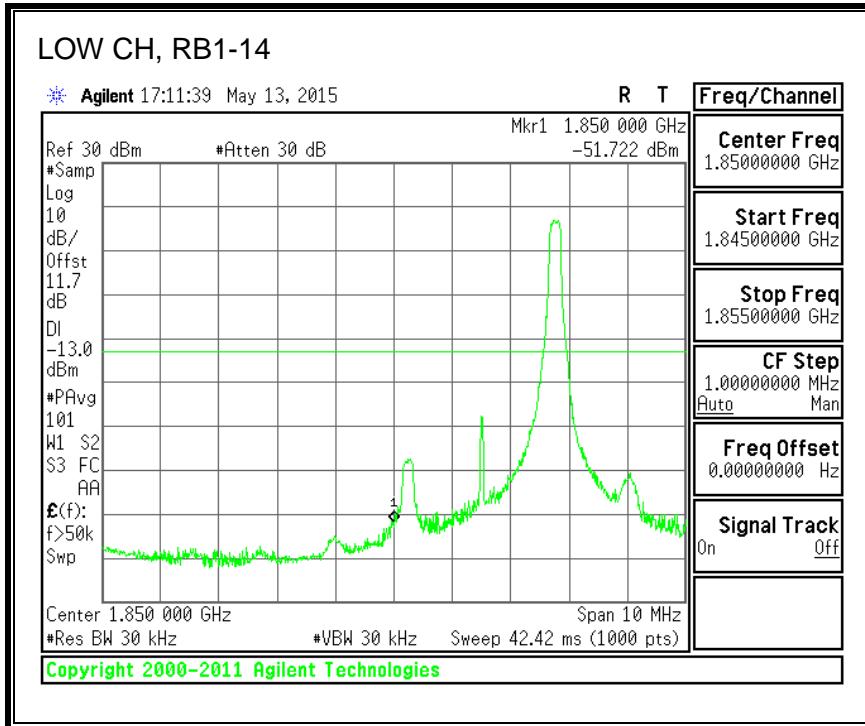
**16QAM, (1.4 MHz BAND WIDTH)**

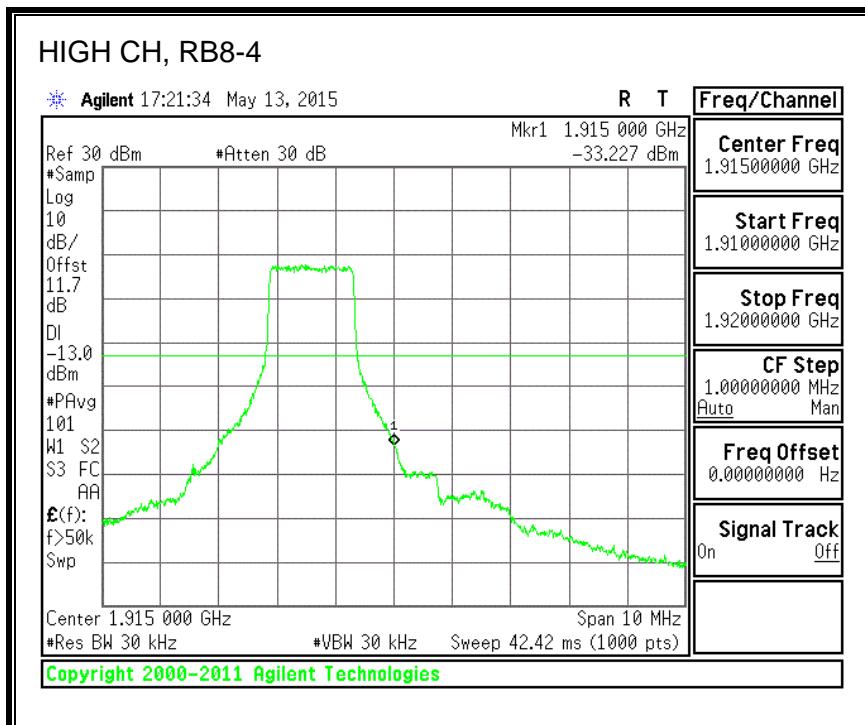
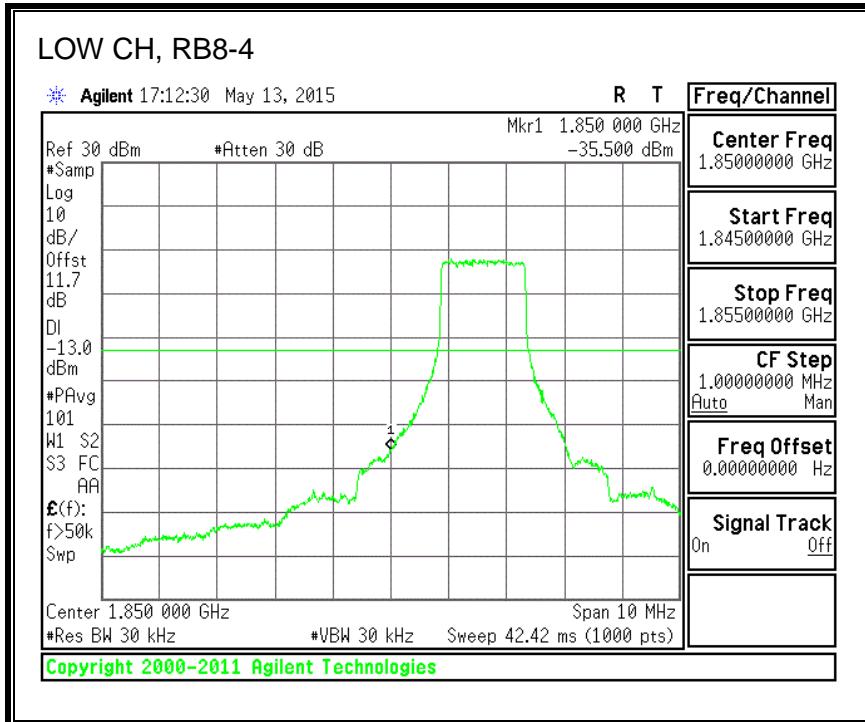


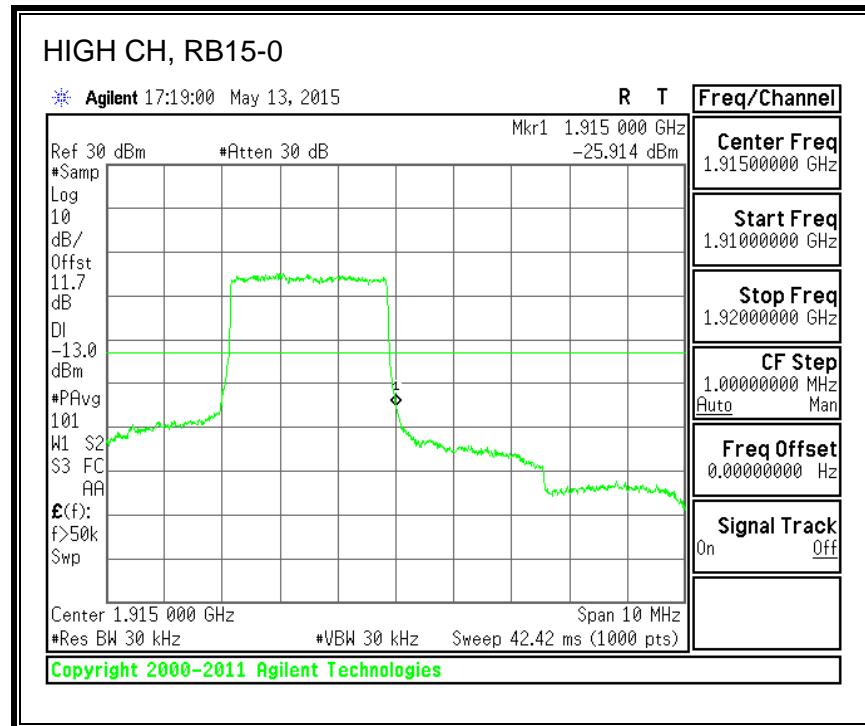
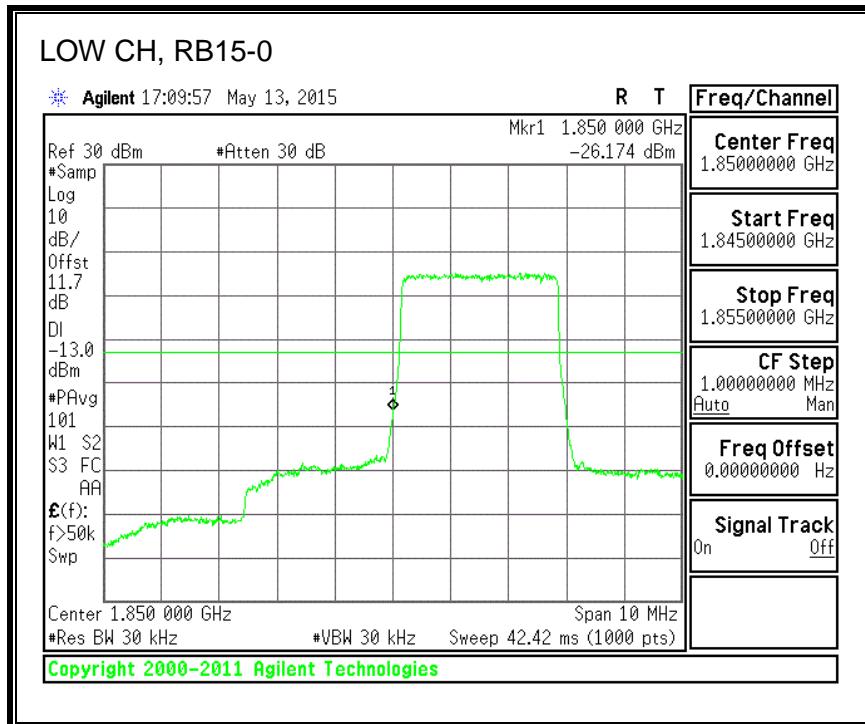


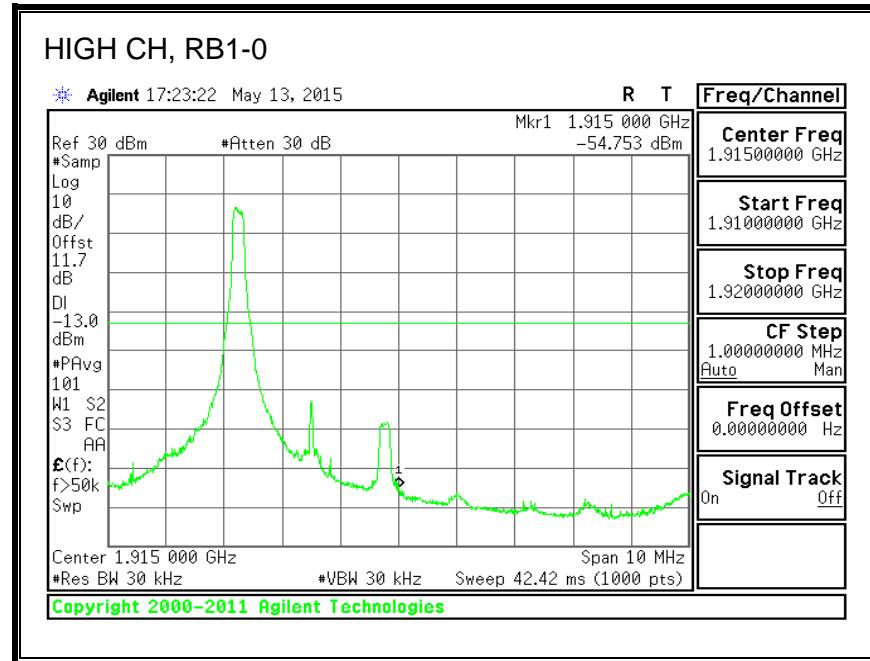
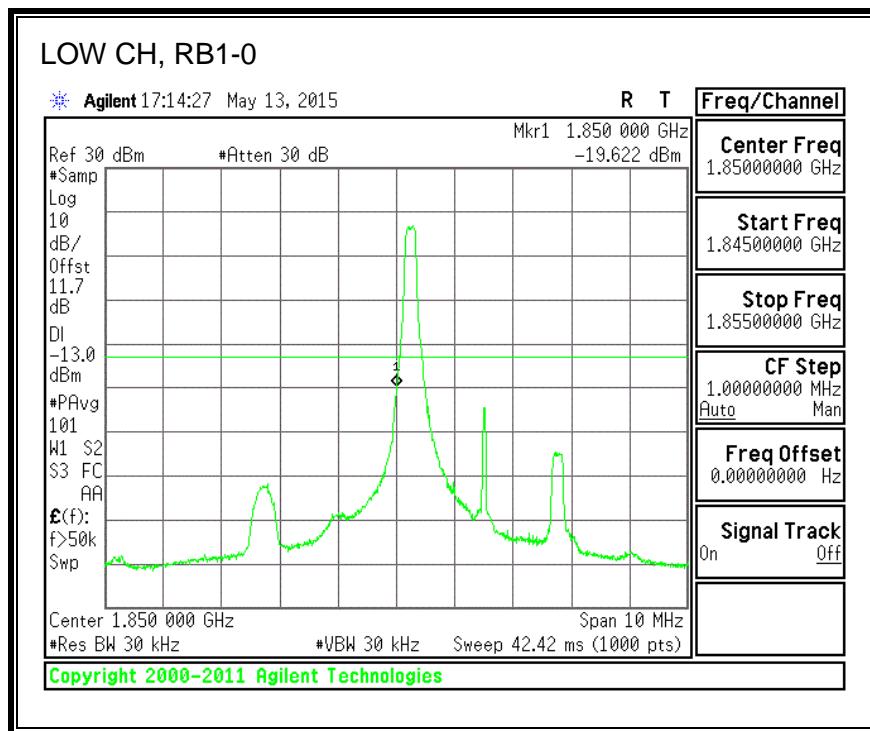


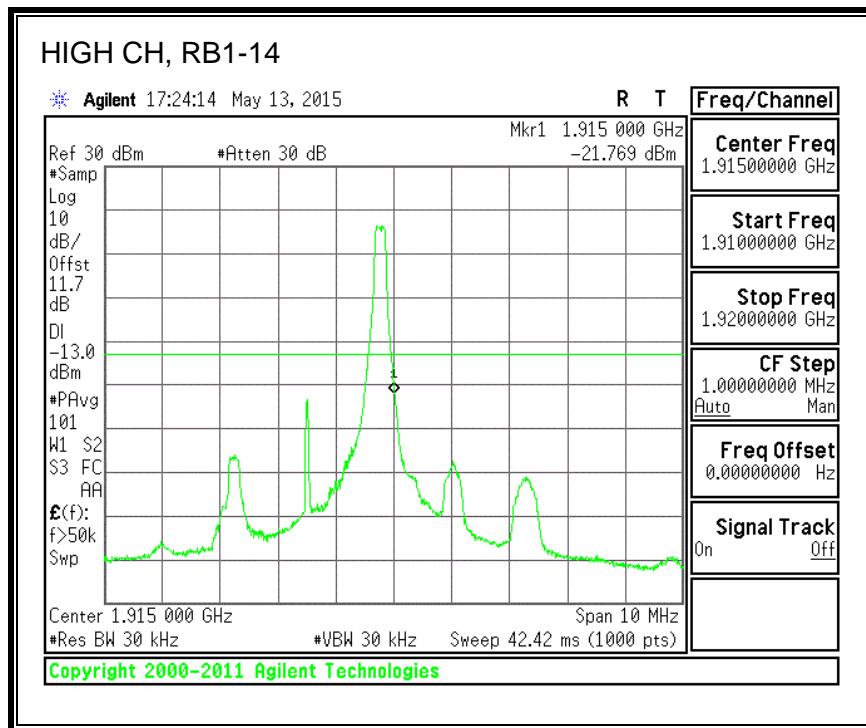
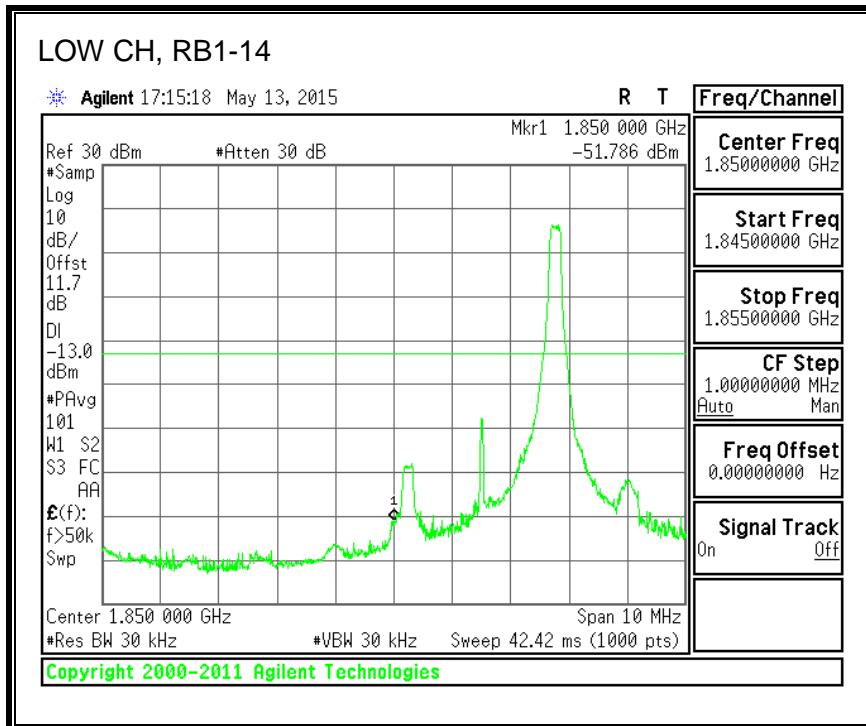
**QPSK, (3.0 MHz BAND WIDTH)**

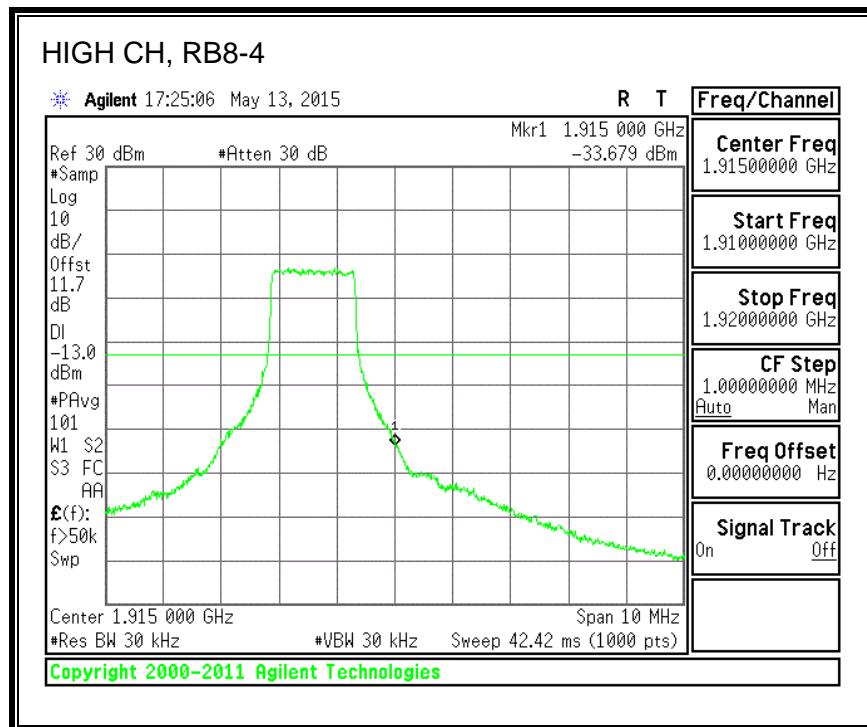
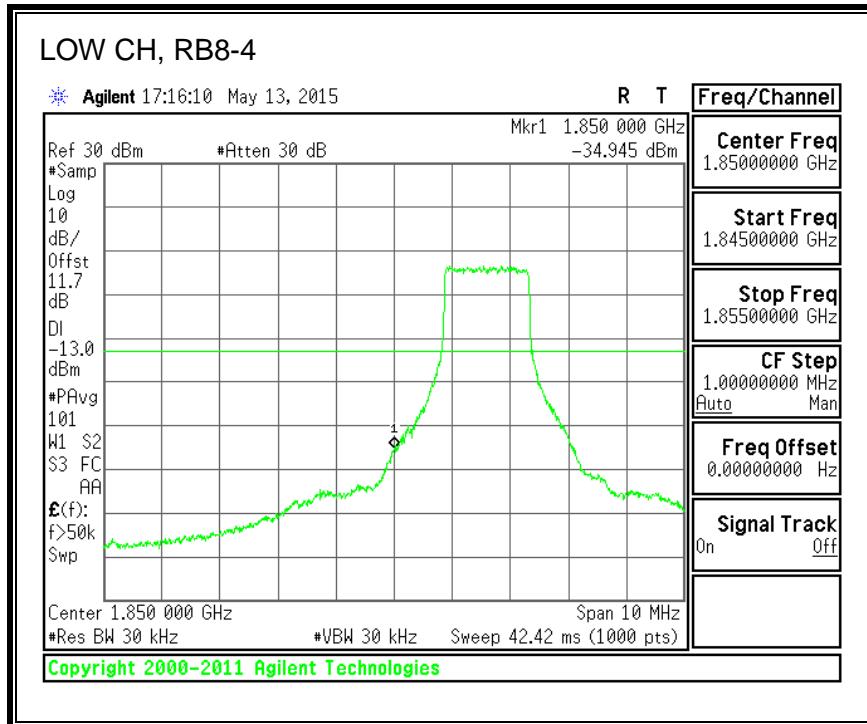


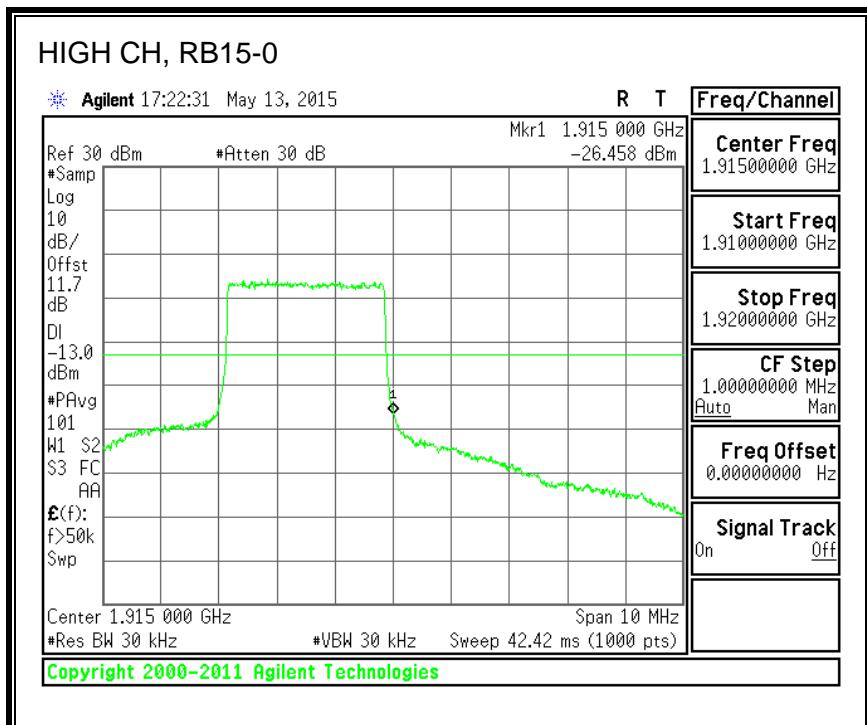
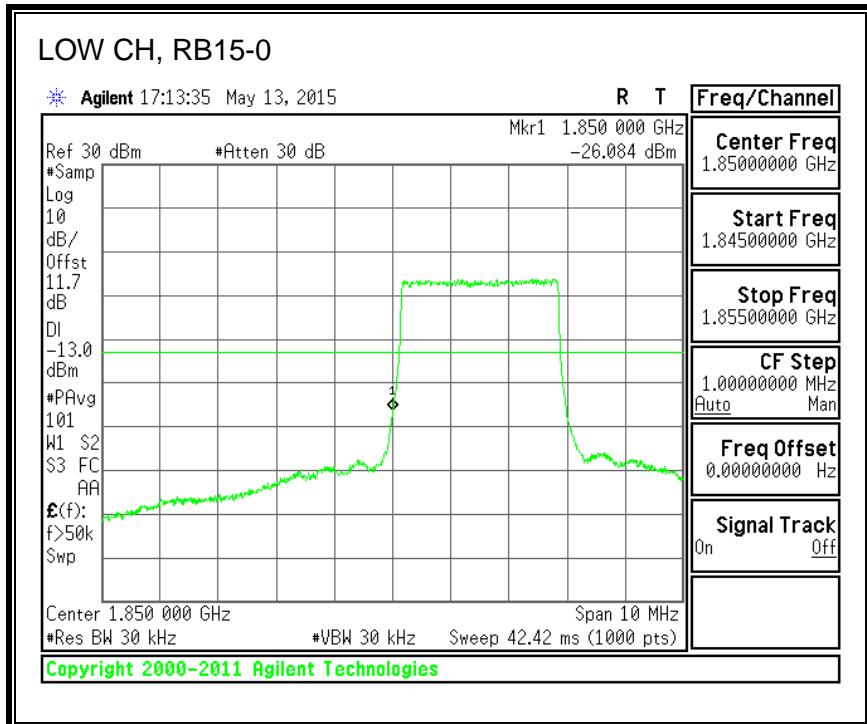


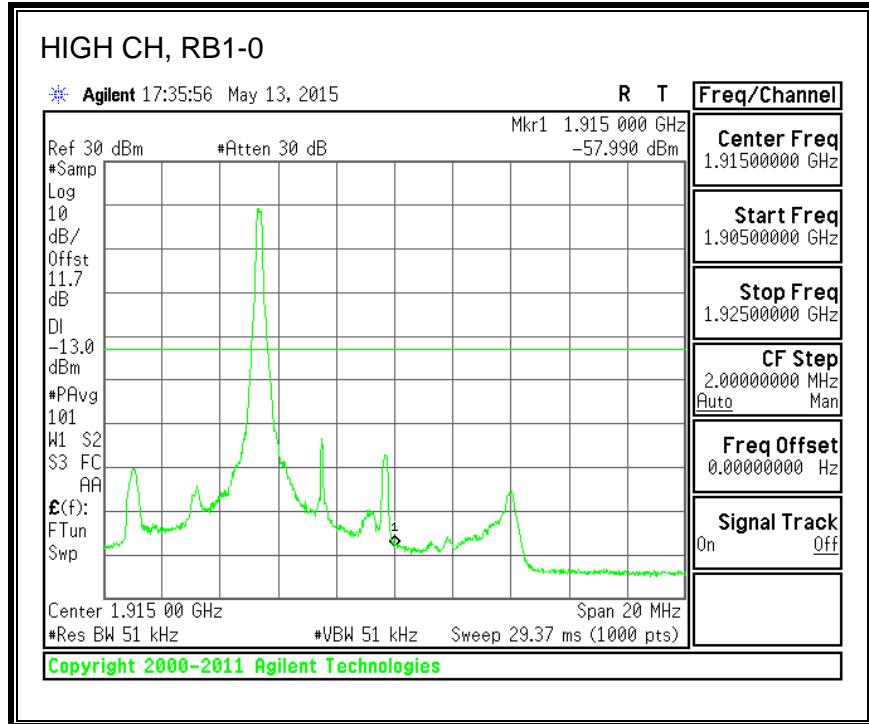
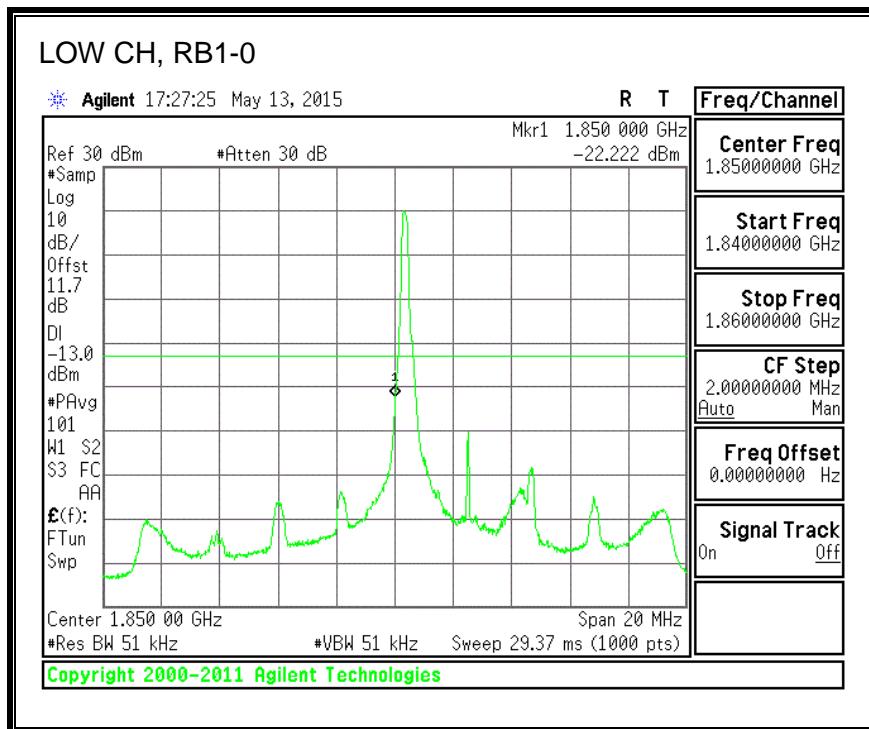


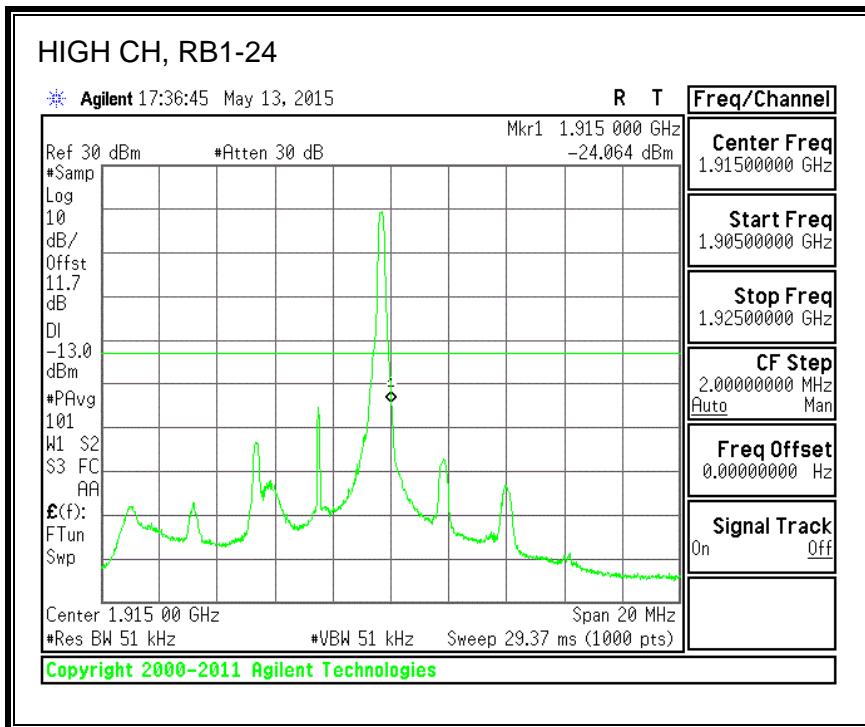
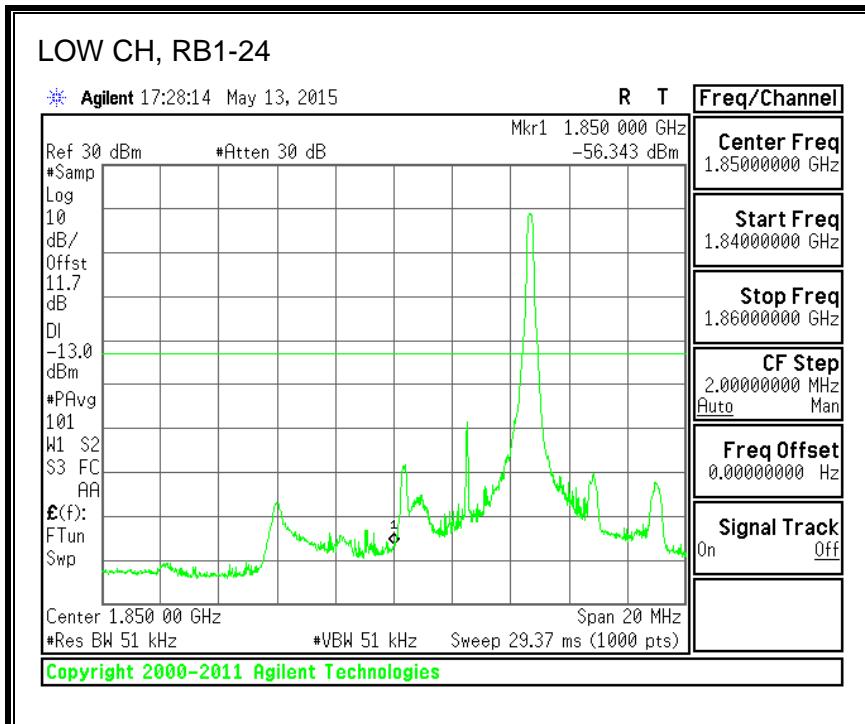
**16QAM, (3.0 MHz BAND WIDTH)**

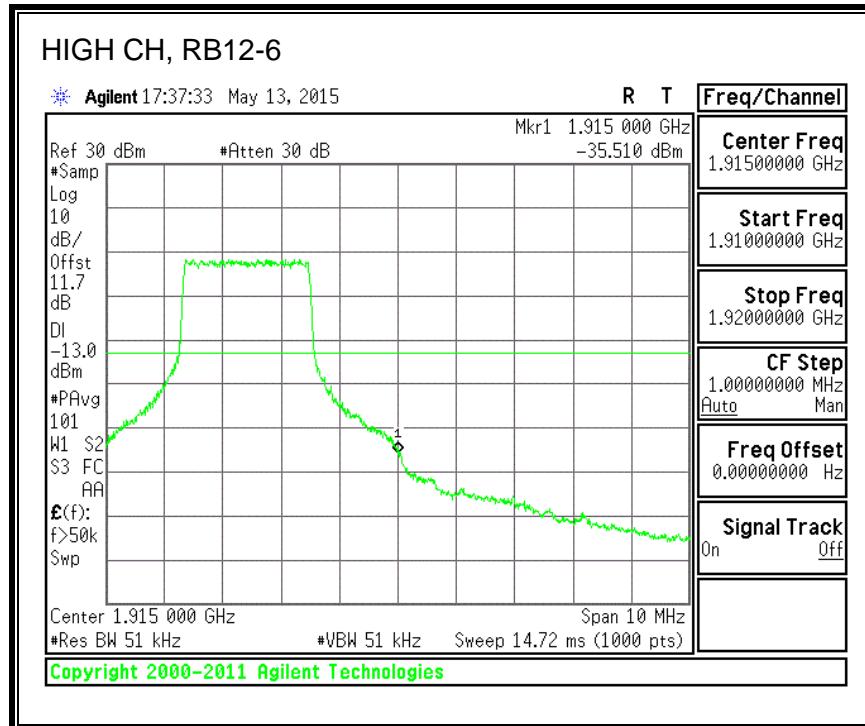
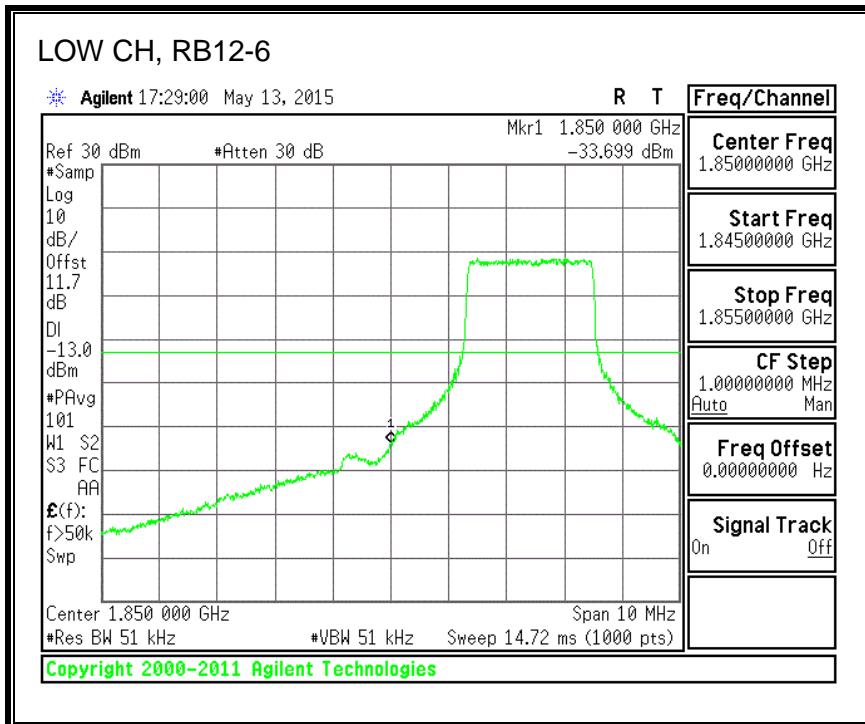


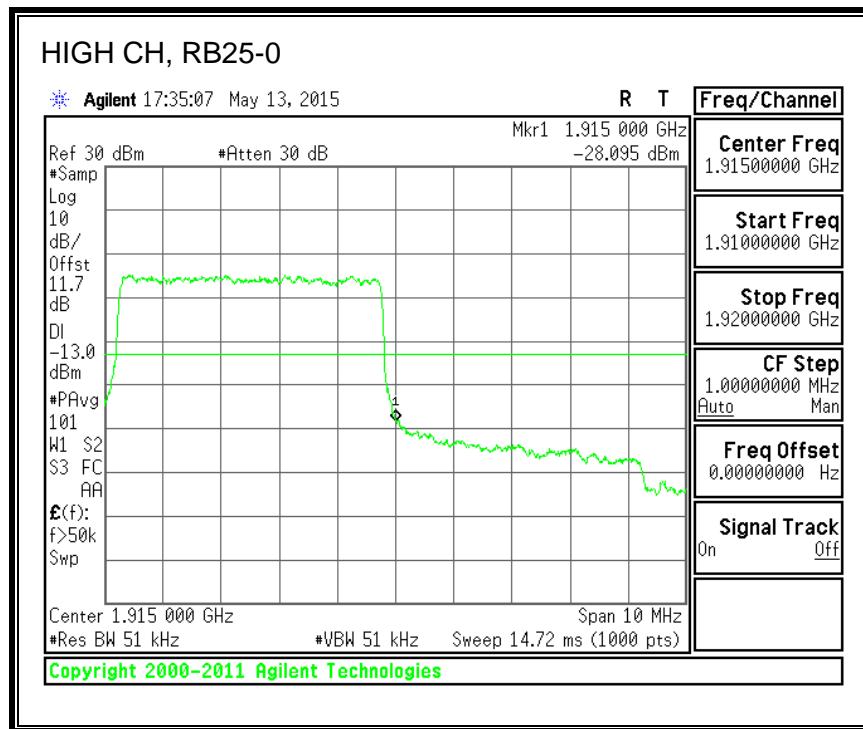
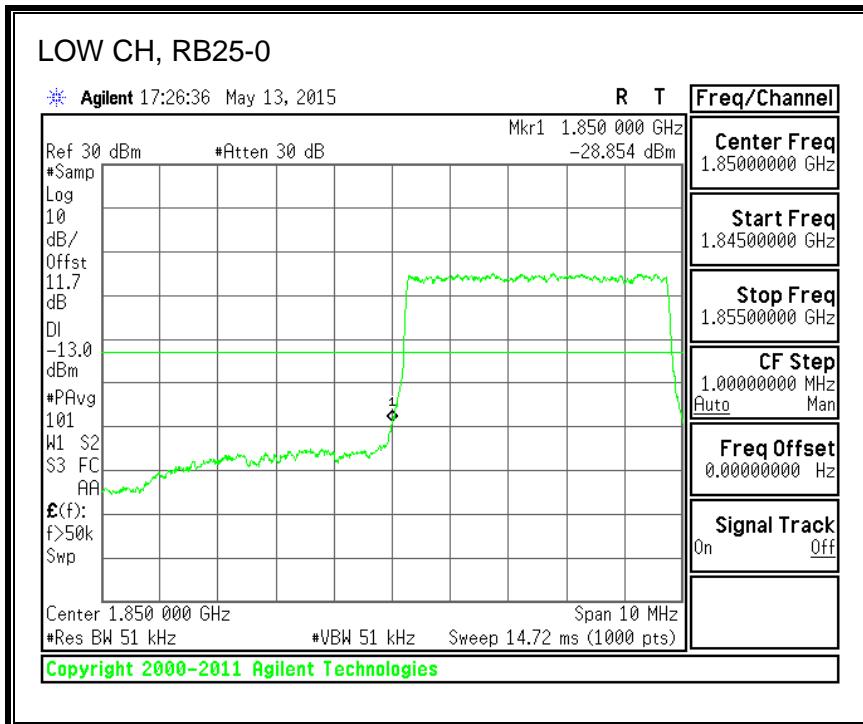


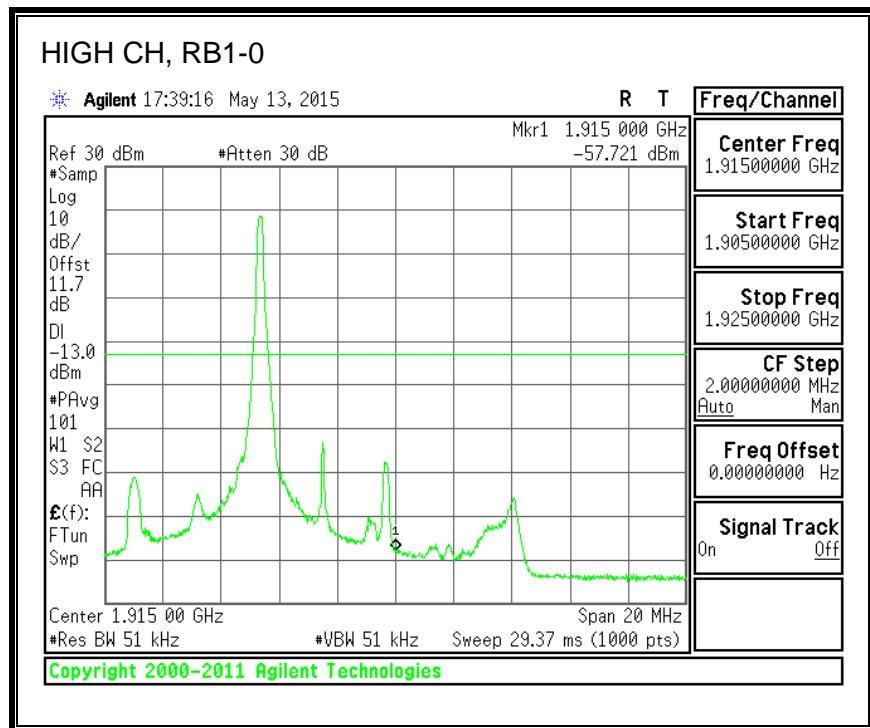
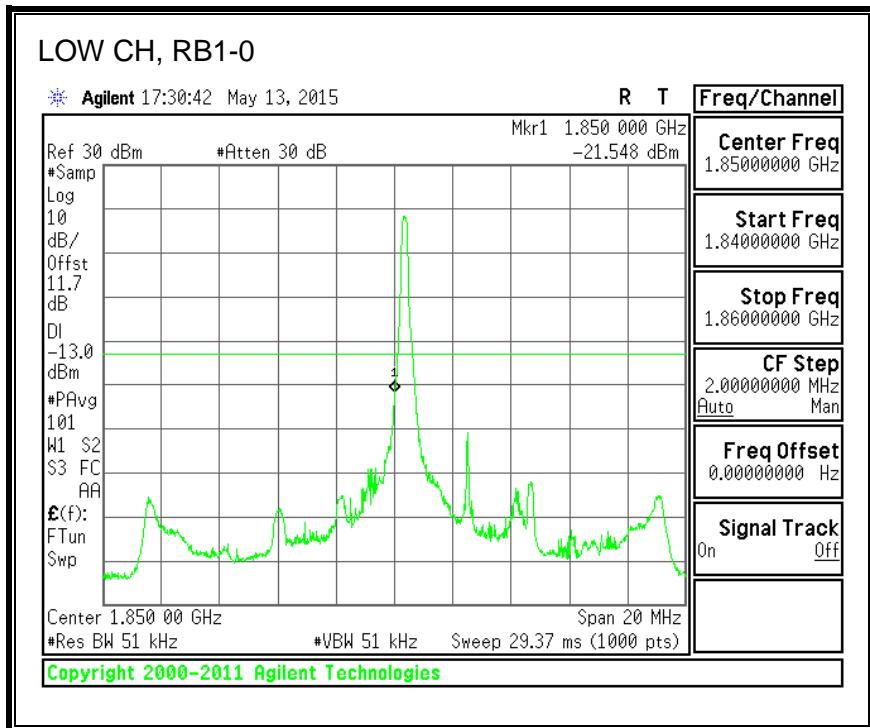


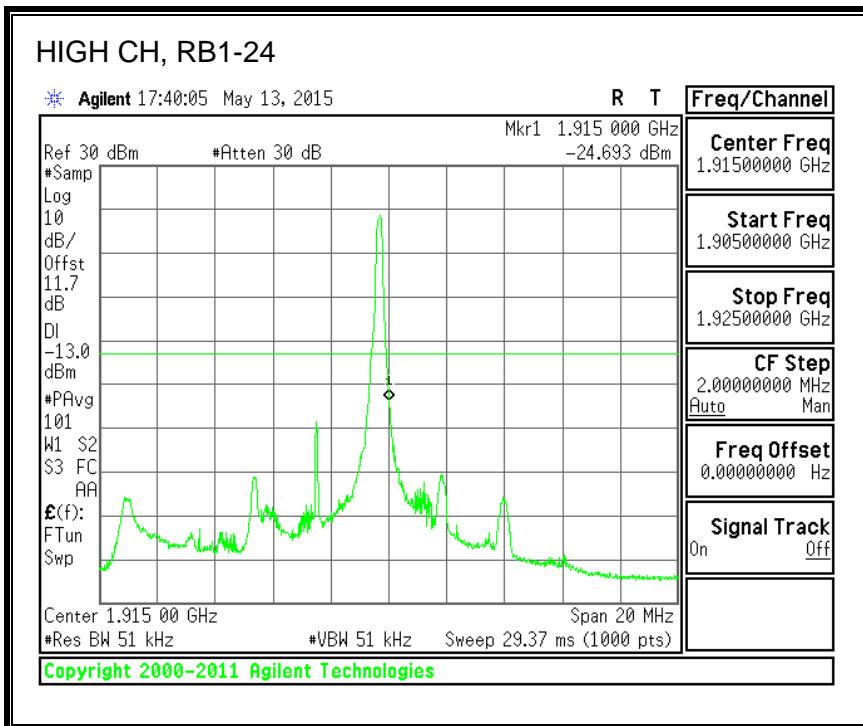
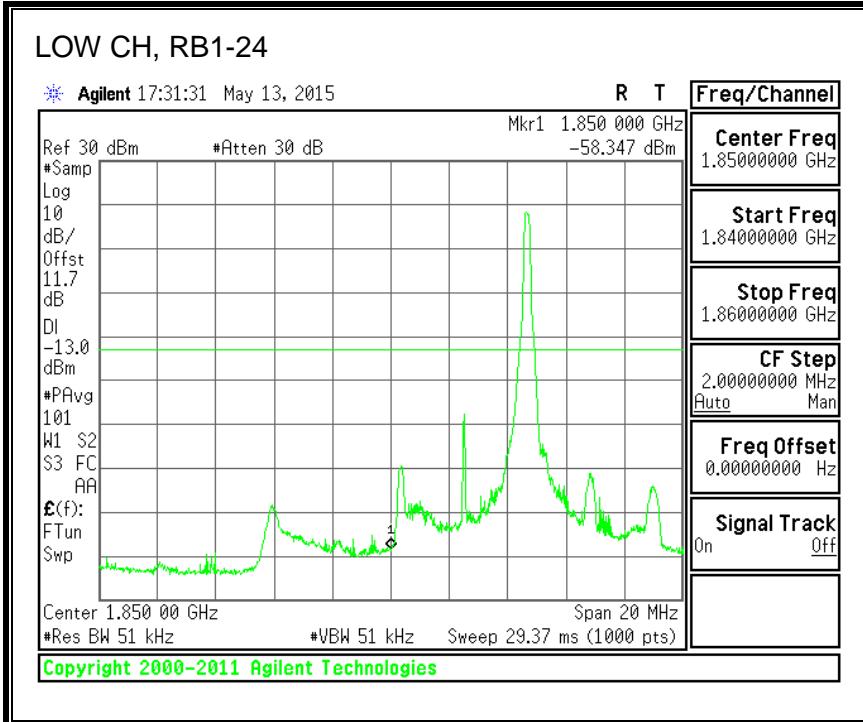
**QPSK, (5.0 MHz BAND WIDTH)**

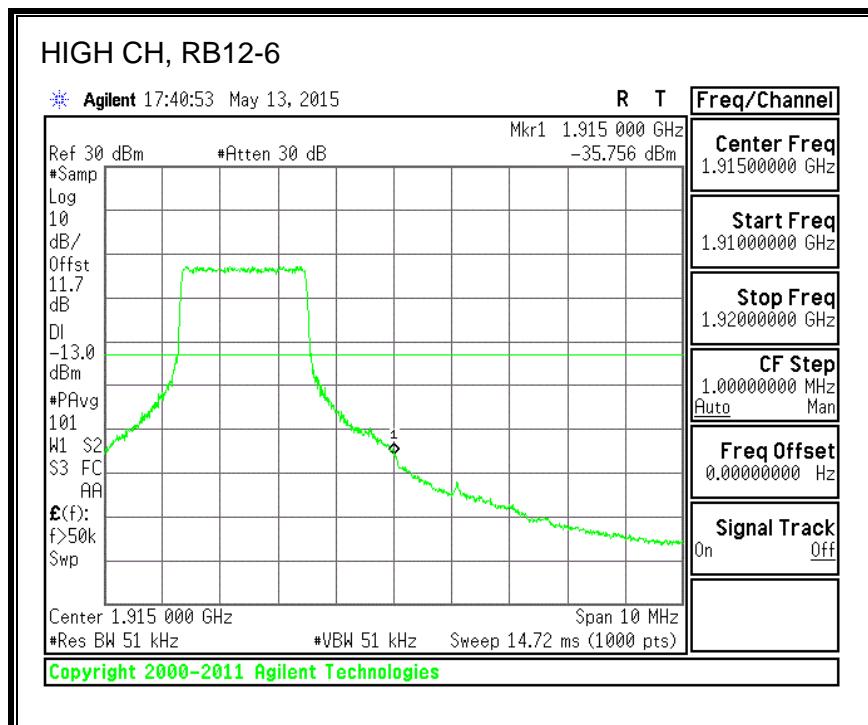
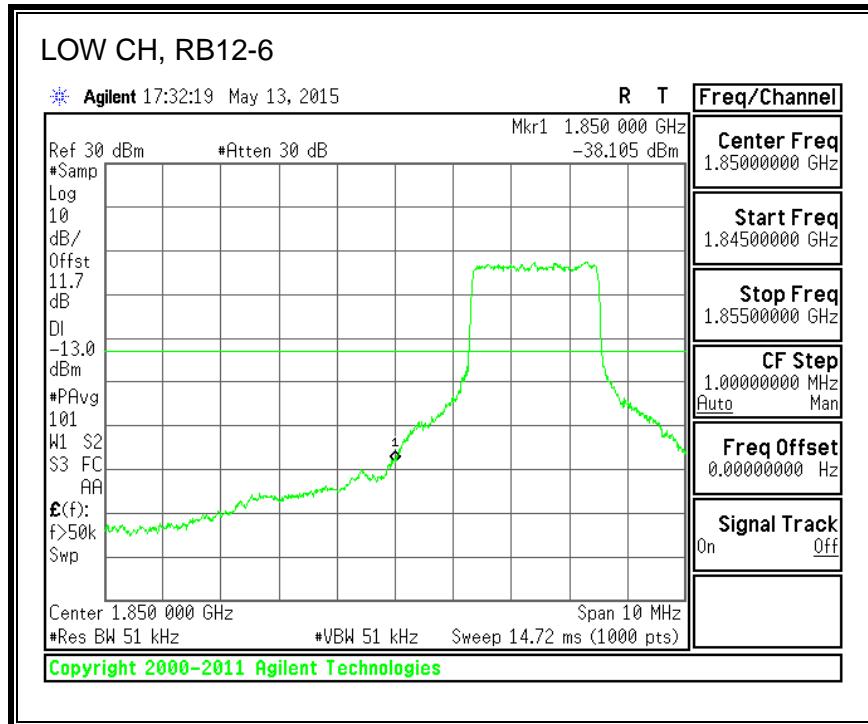


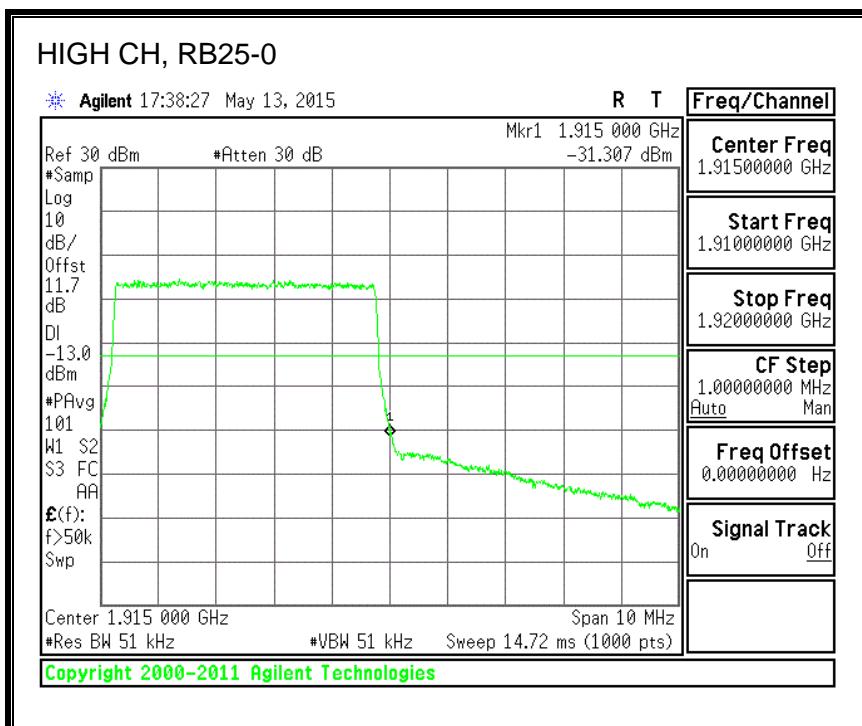
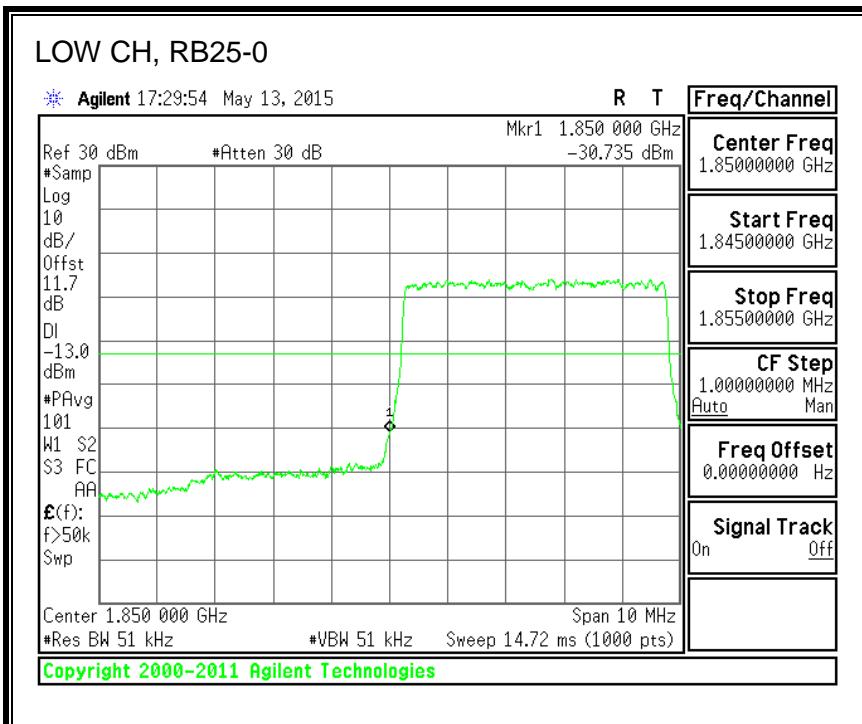


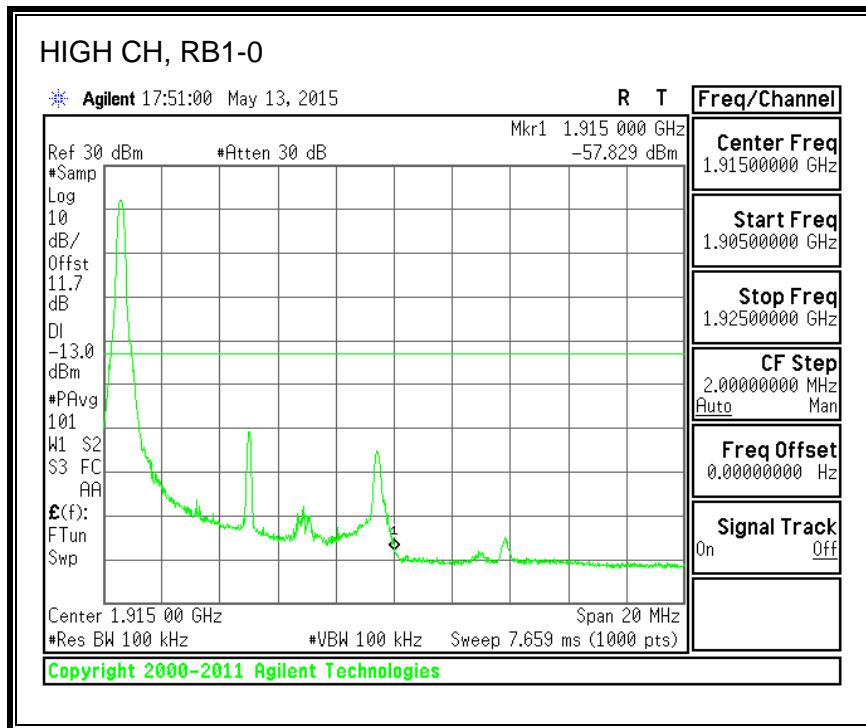
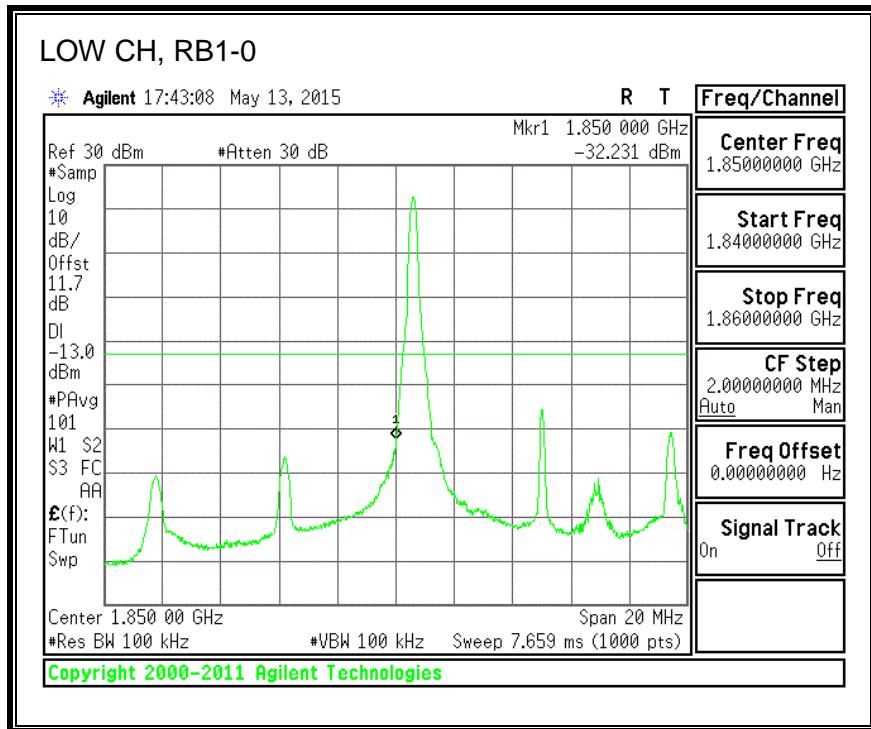


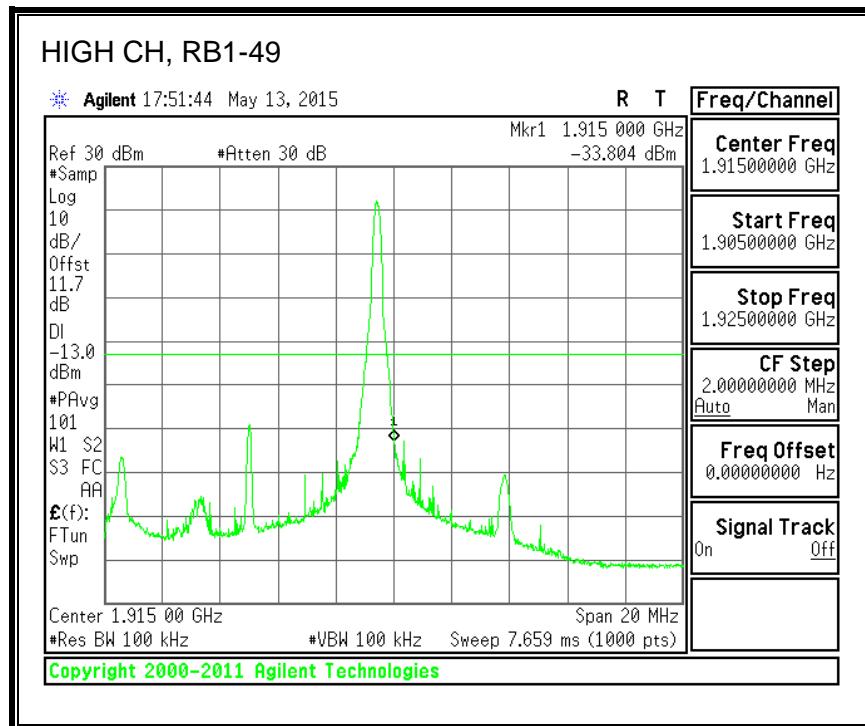
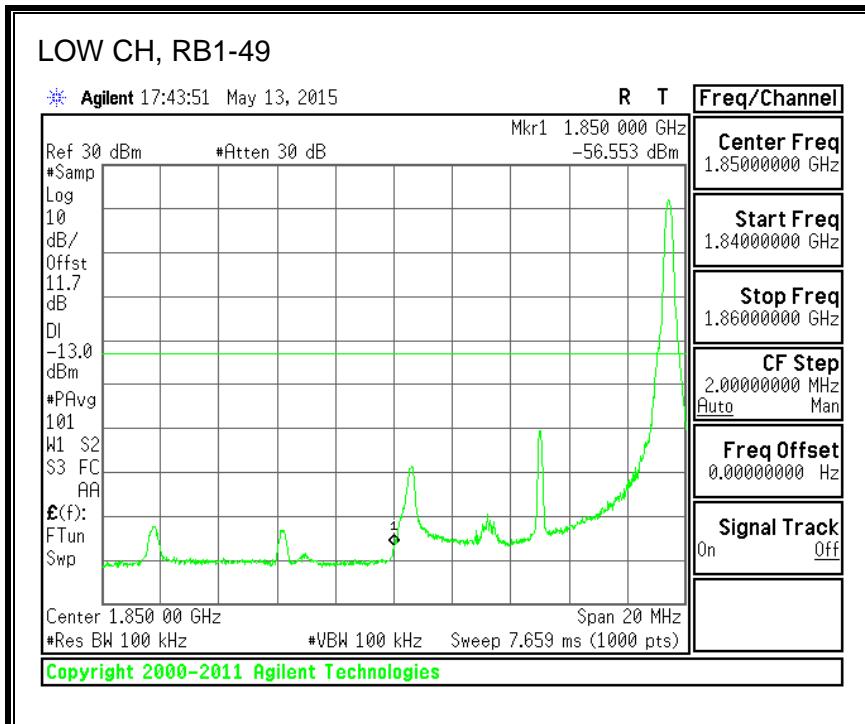
**16QAM, (5.0 MHz BAND WIDTH)**

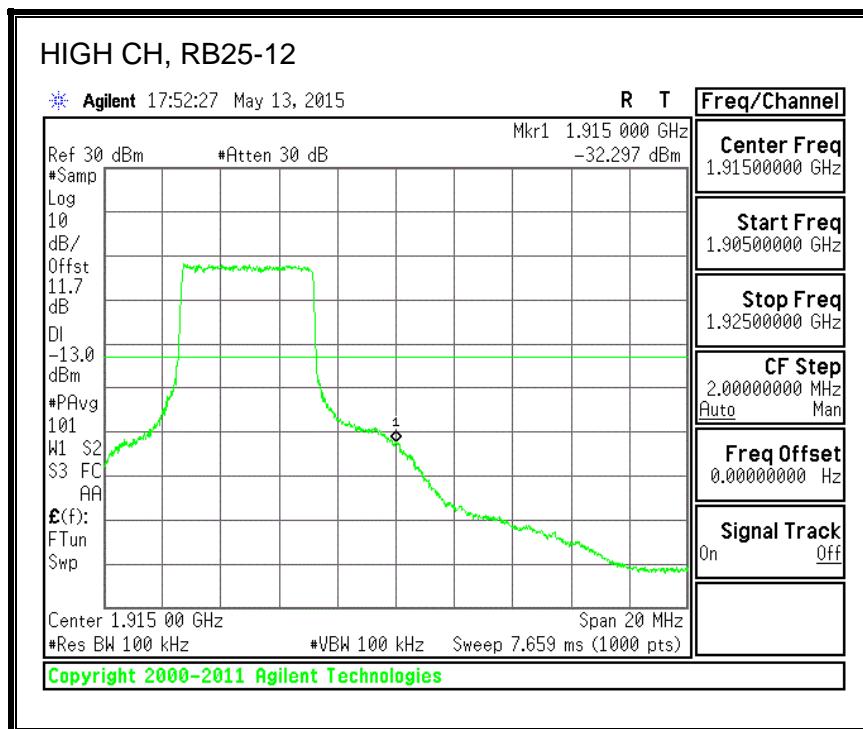
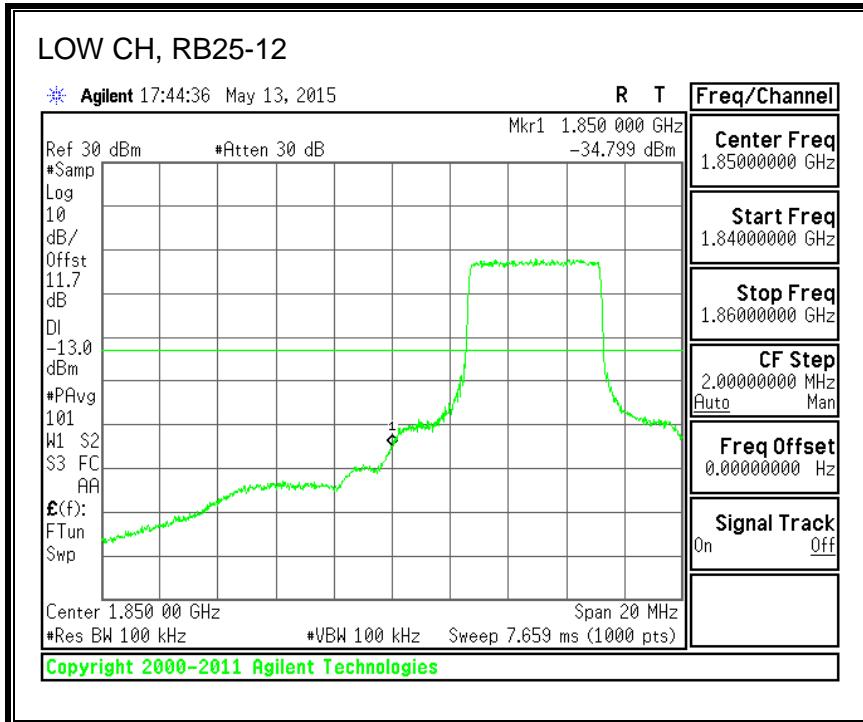


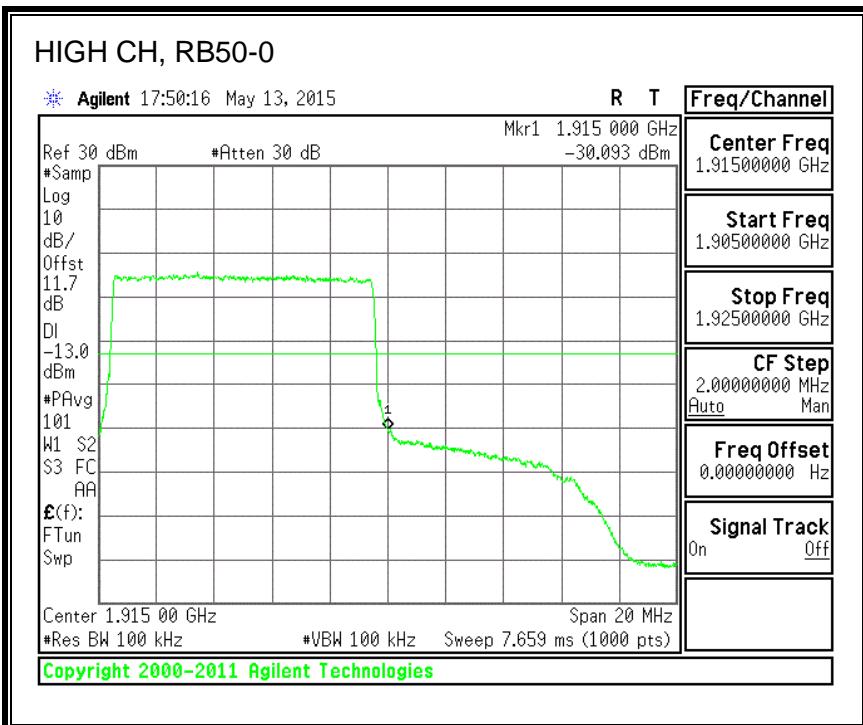
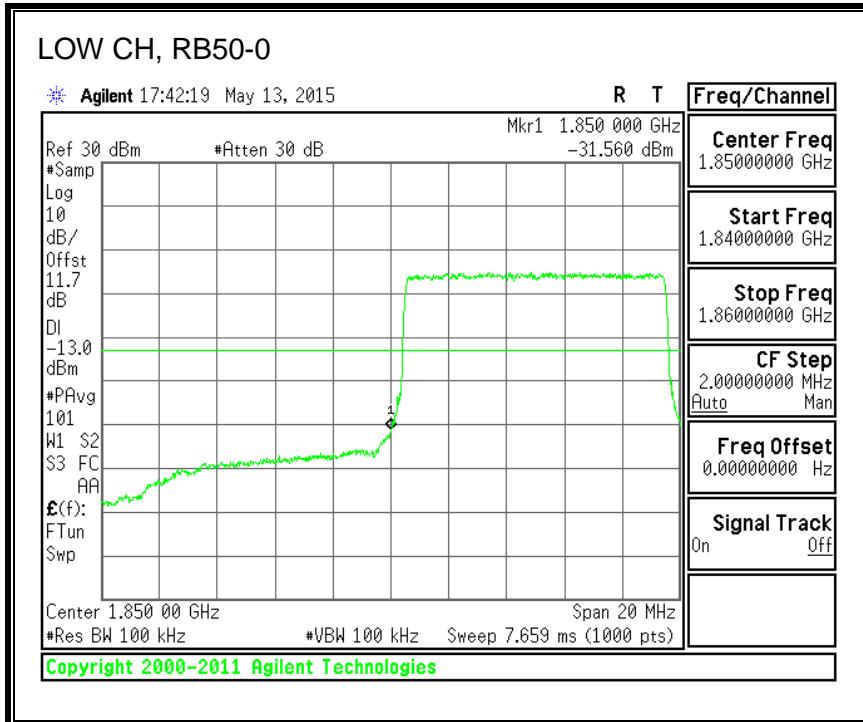


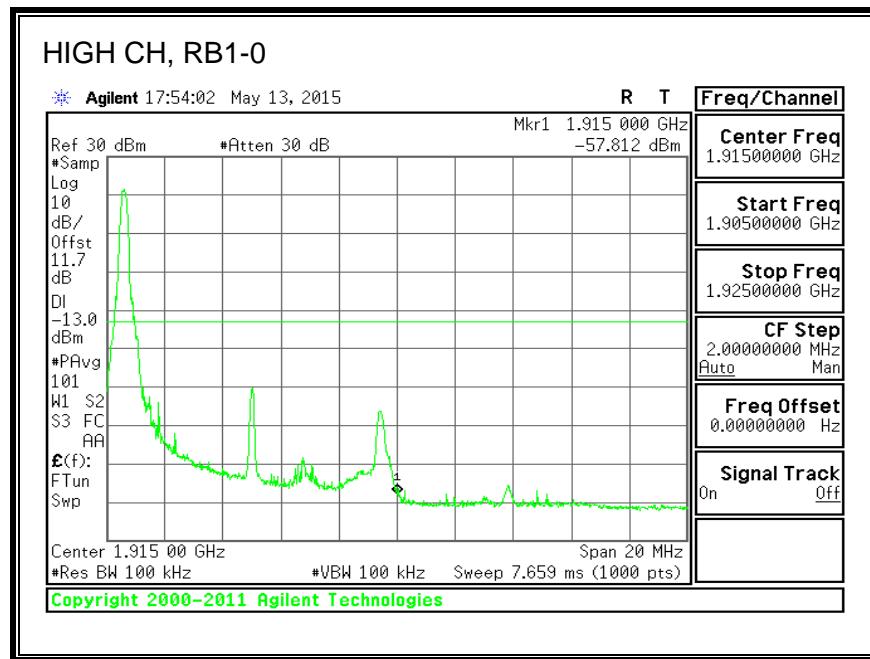
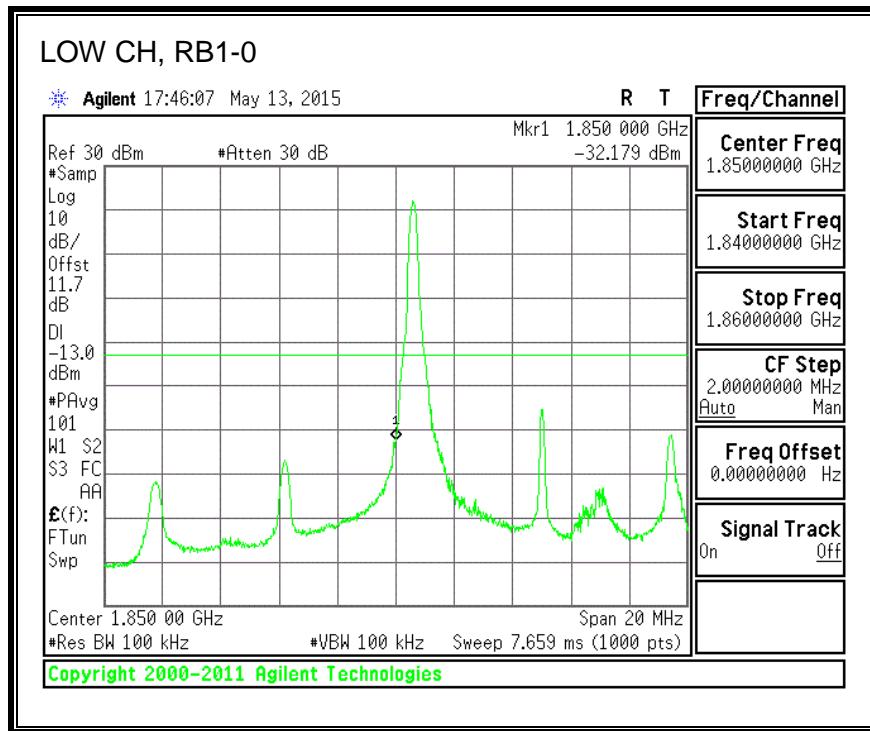


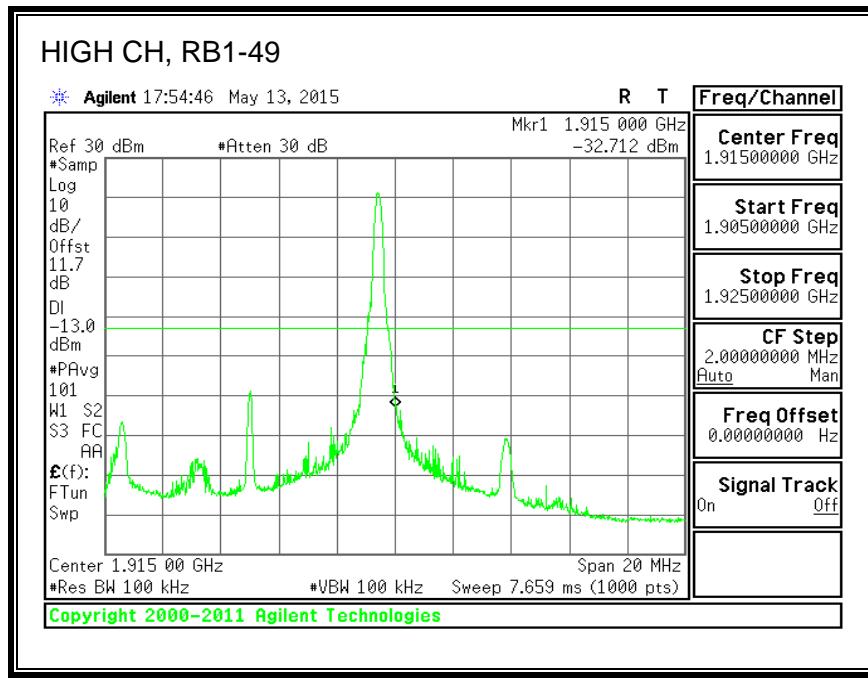
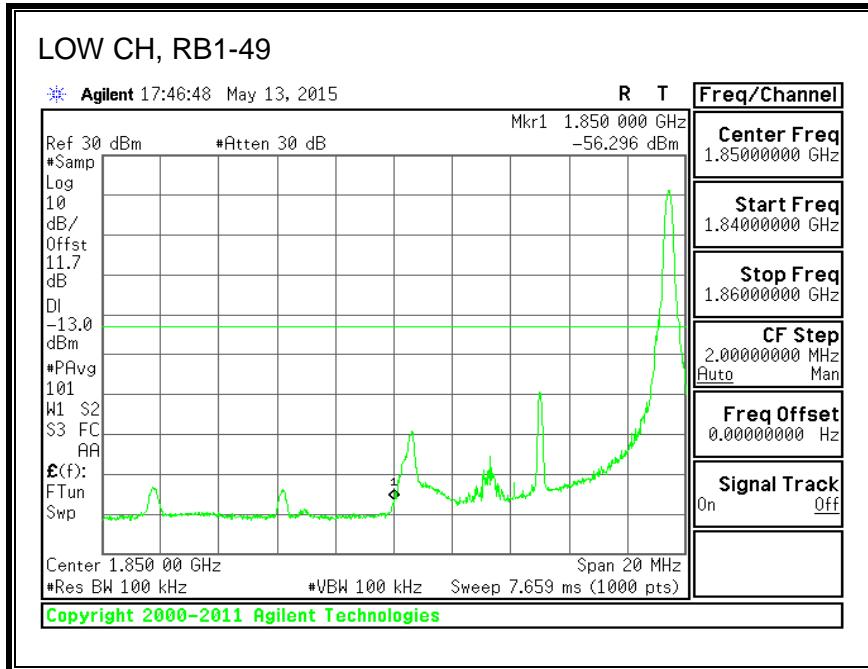
**QPSK, (10.0 MHz BAND WIDTH)**

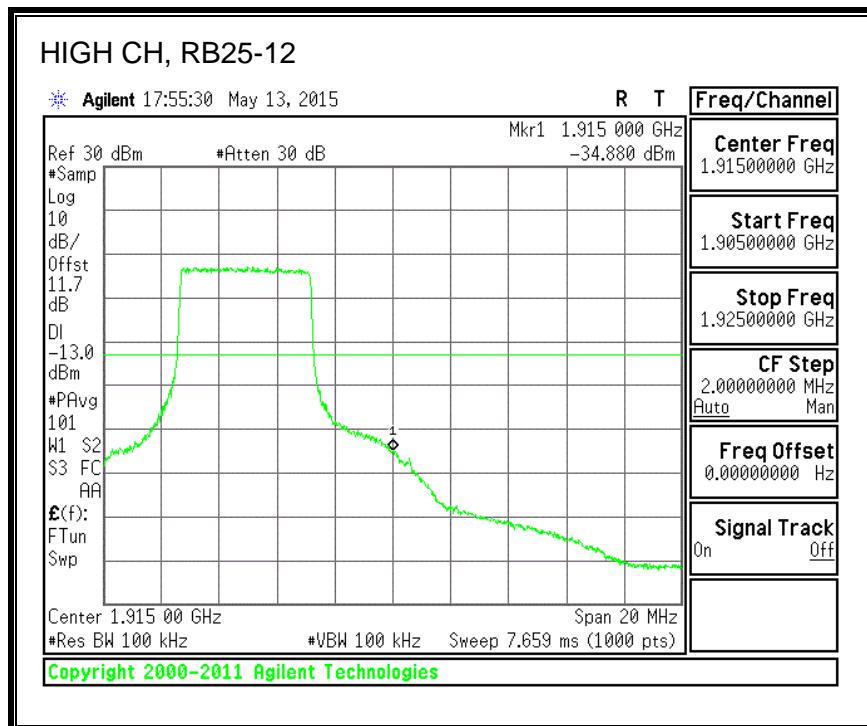
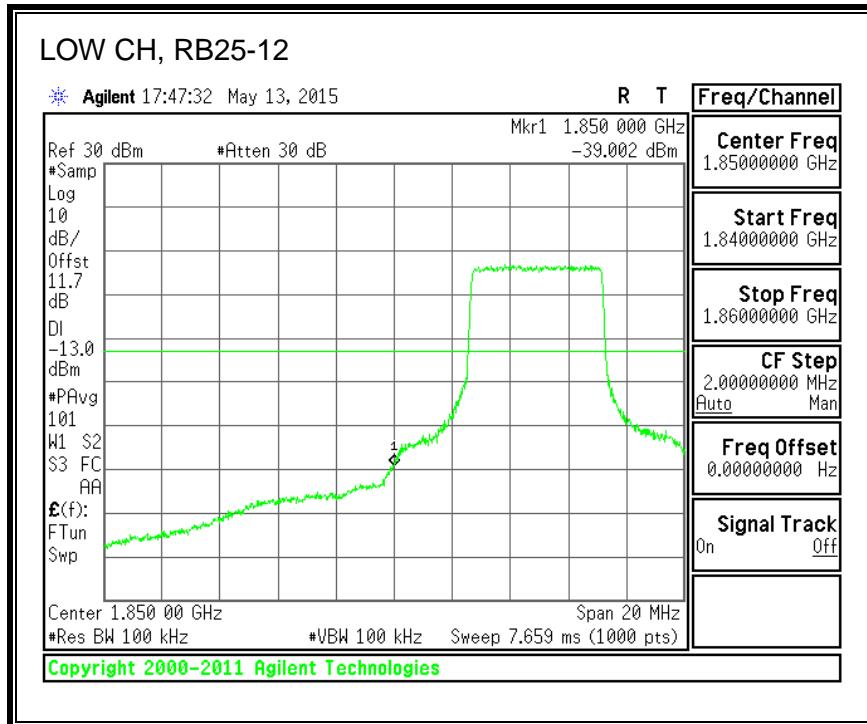


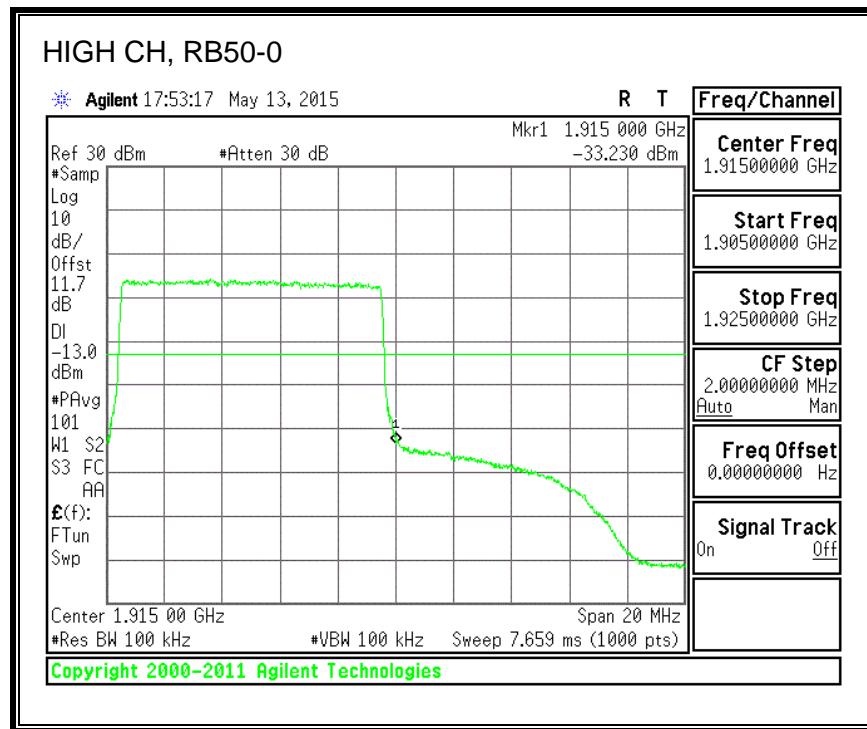
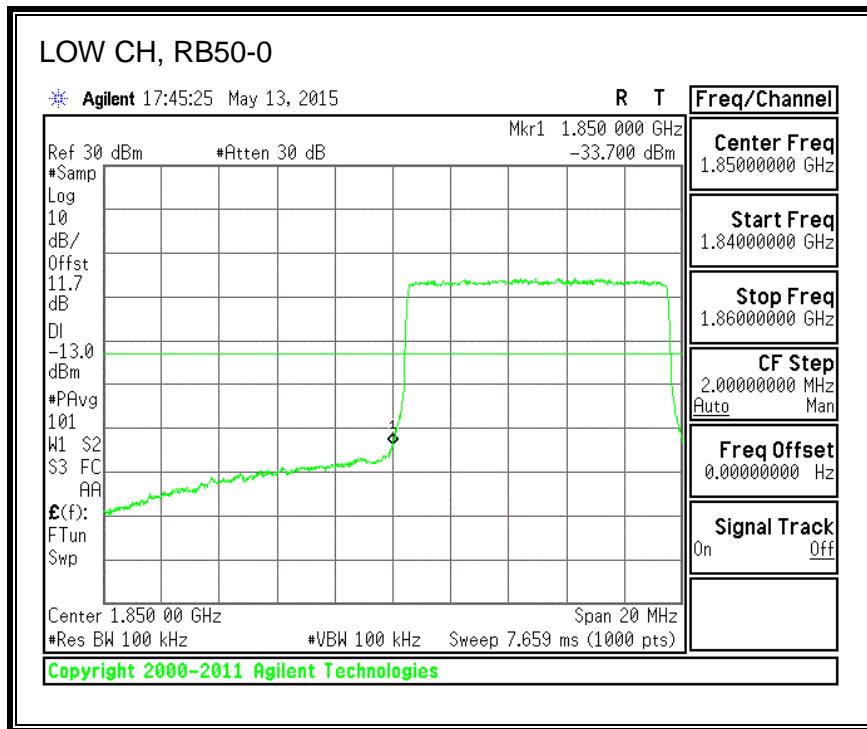


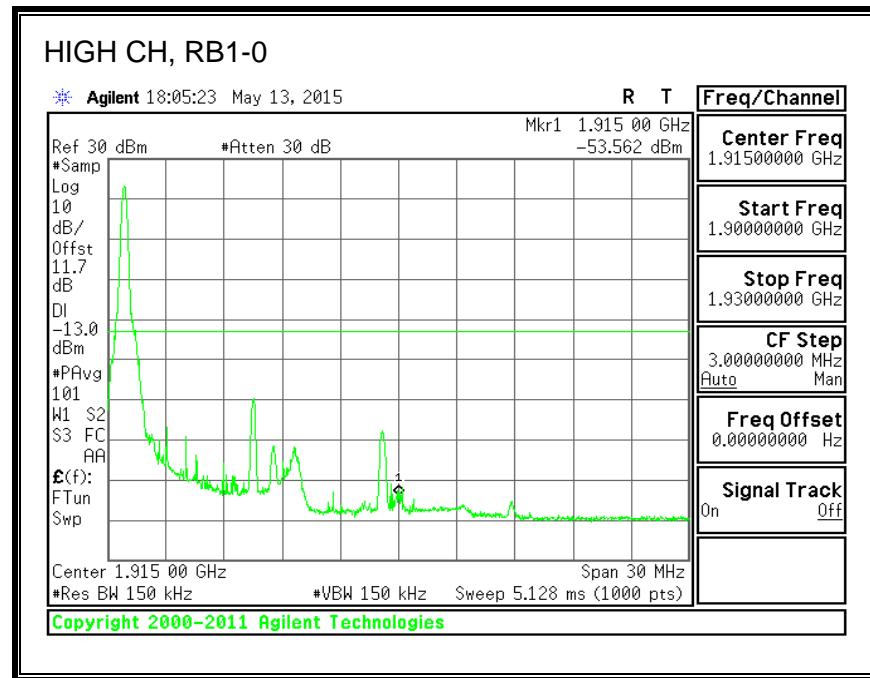
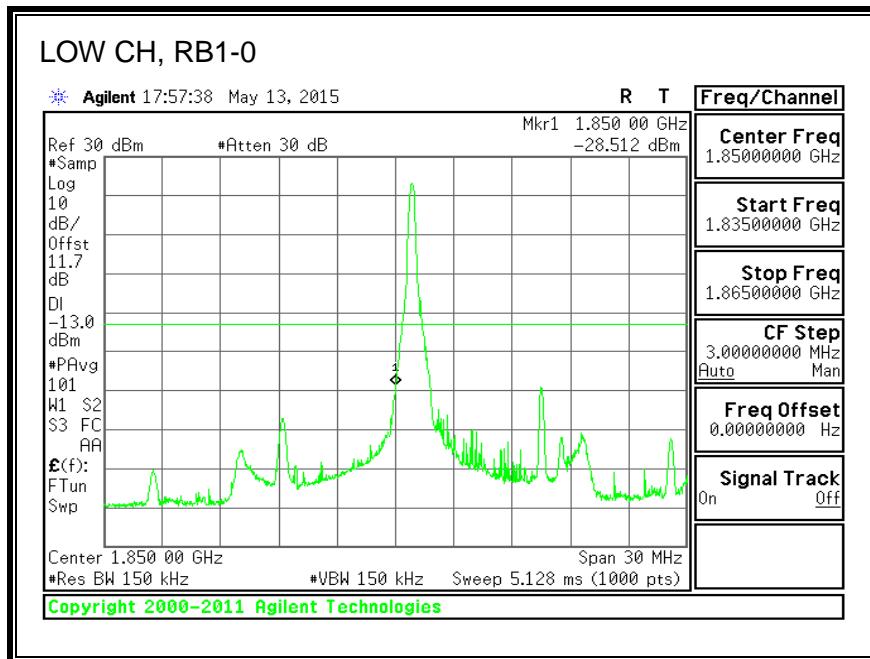


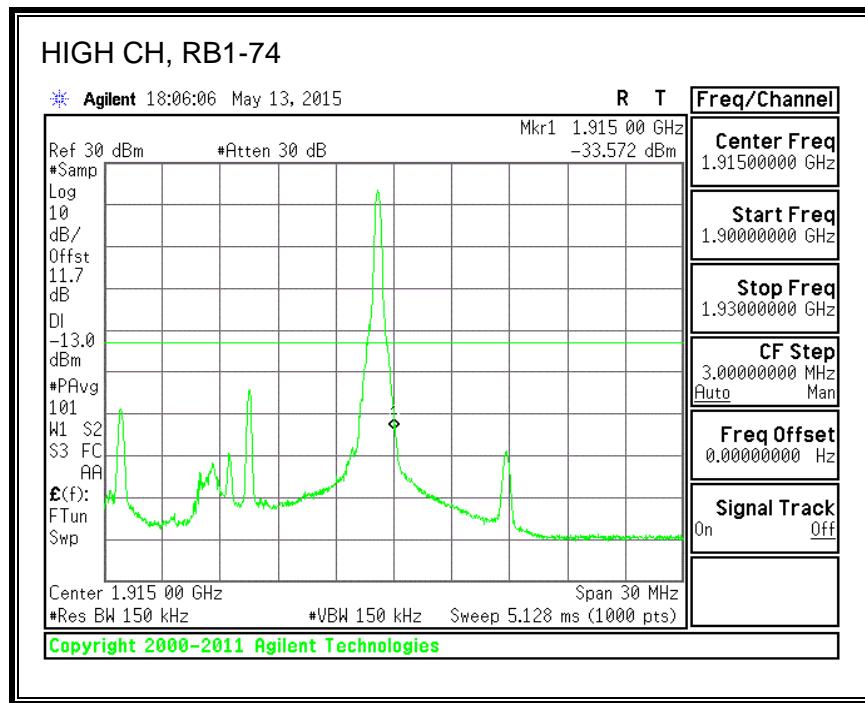
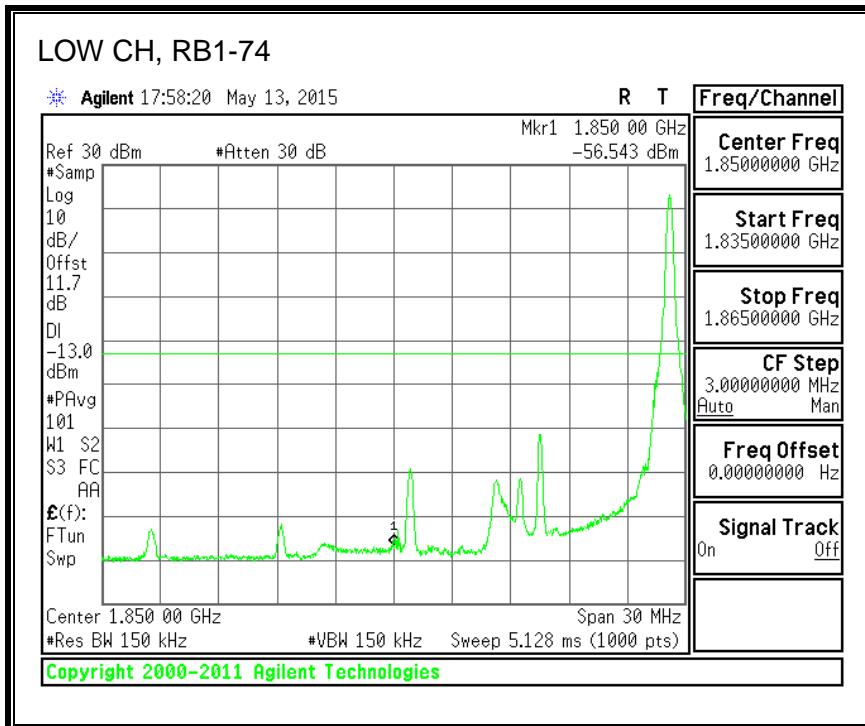
**16QAM, (10.0 MHz BAND WIDTH)**

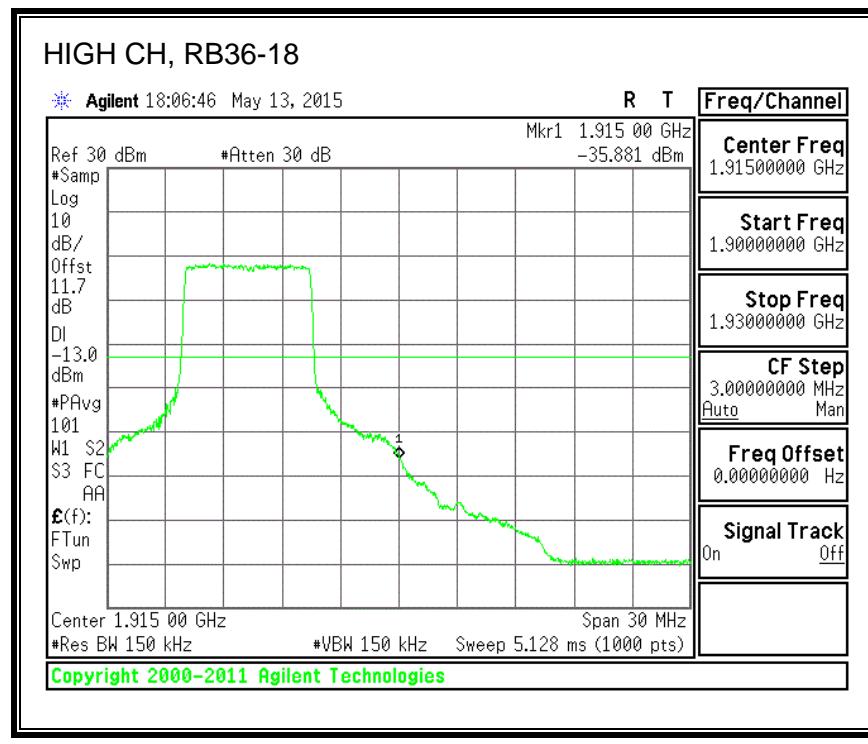
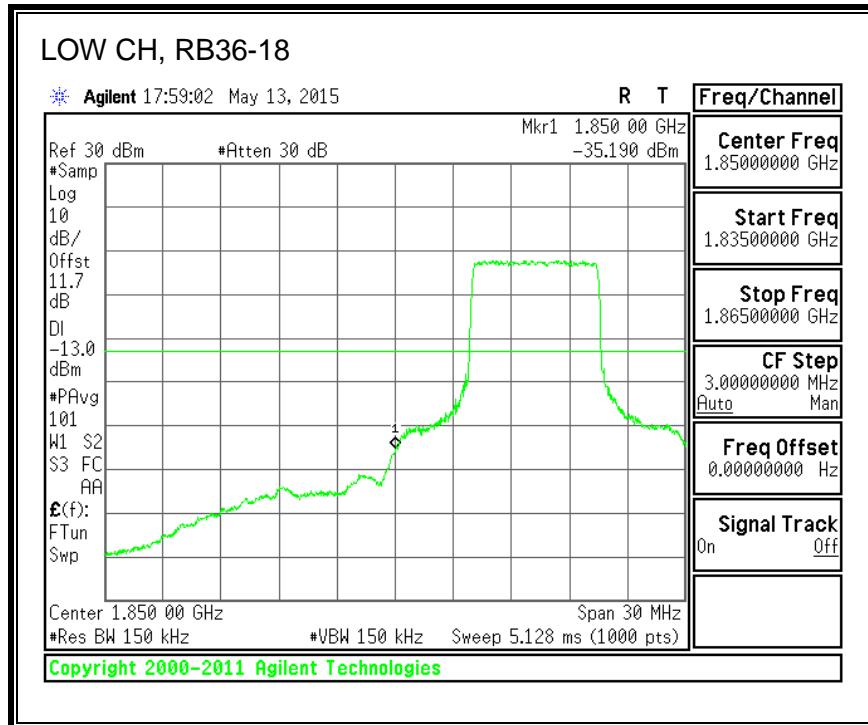


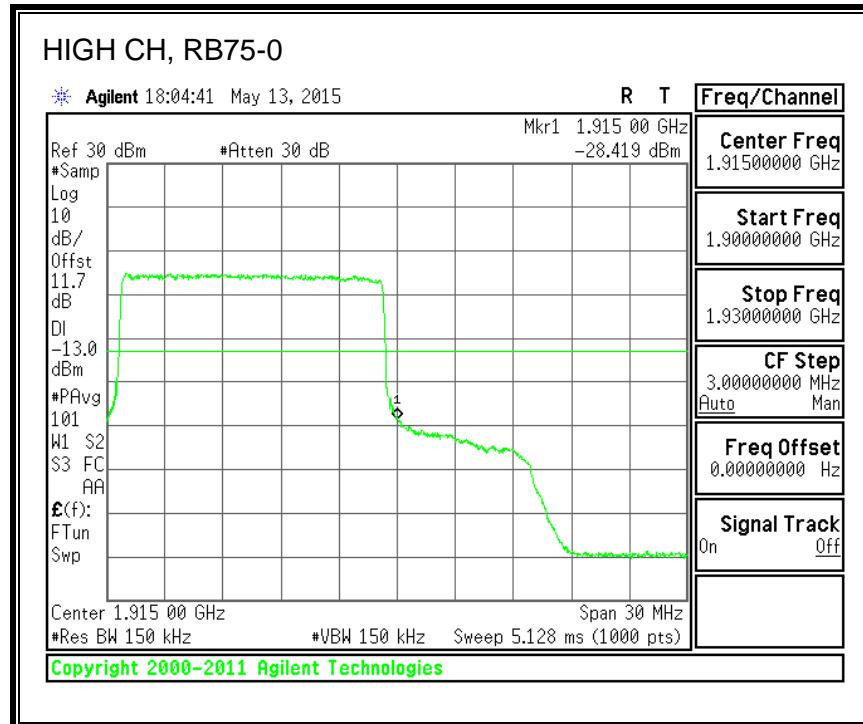
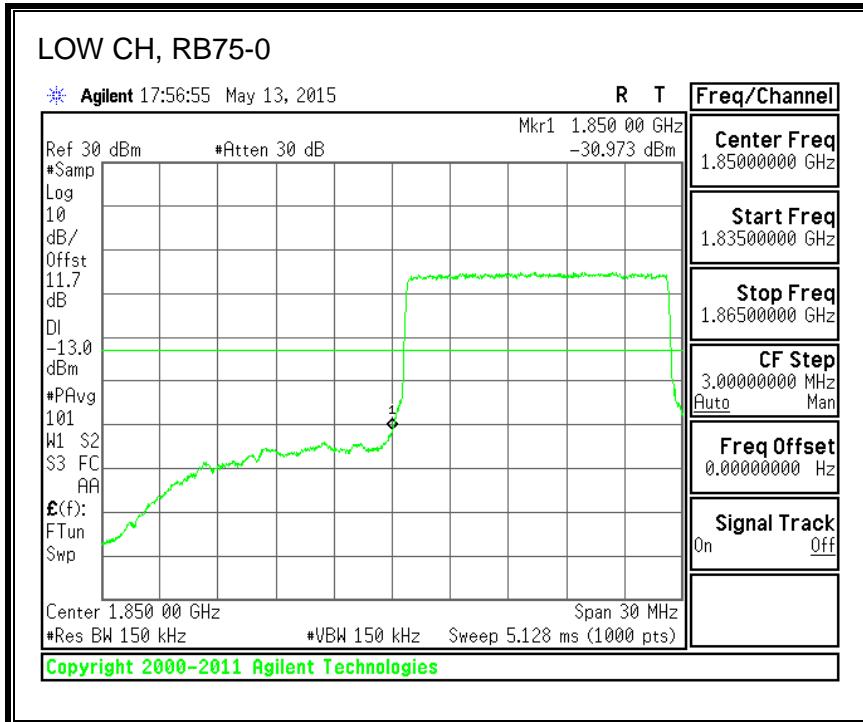


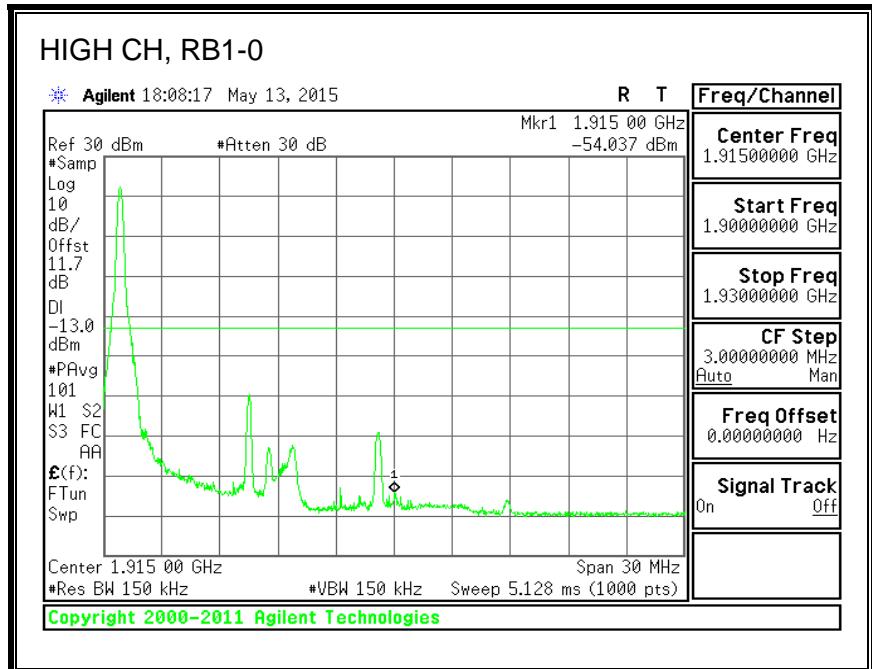
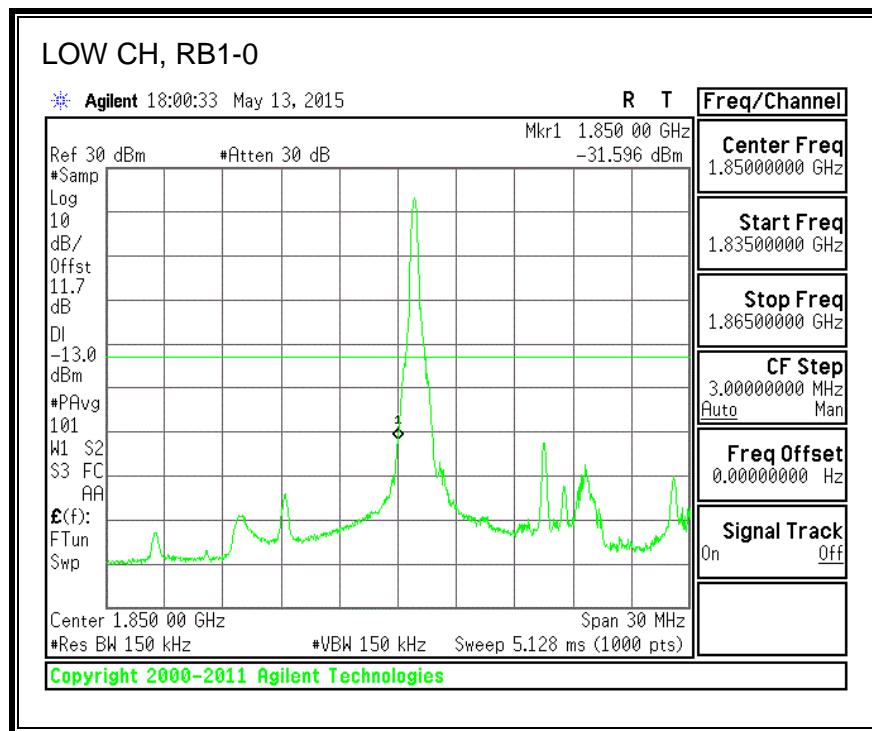


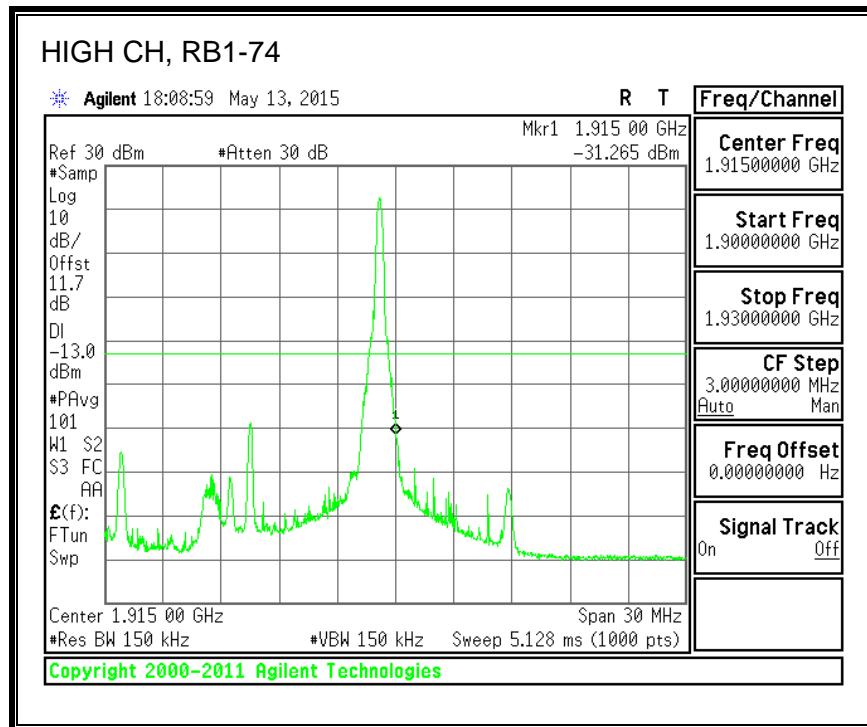
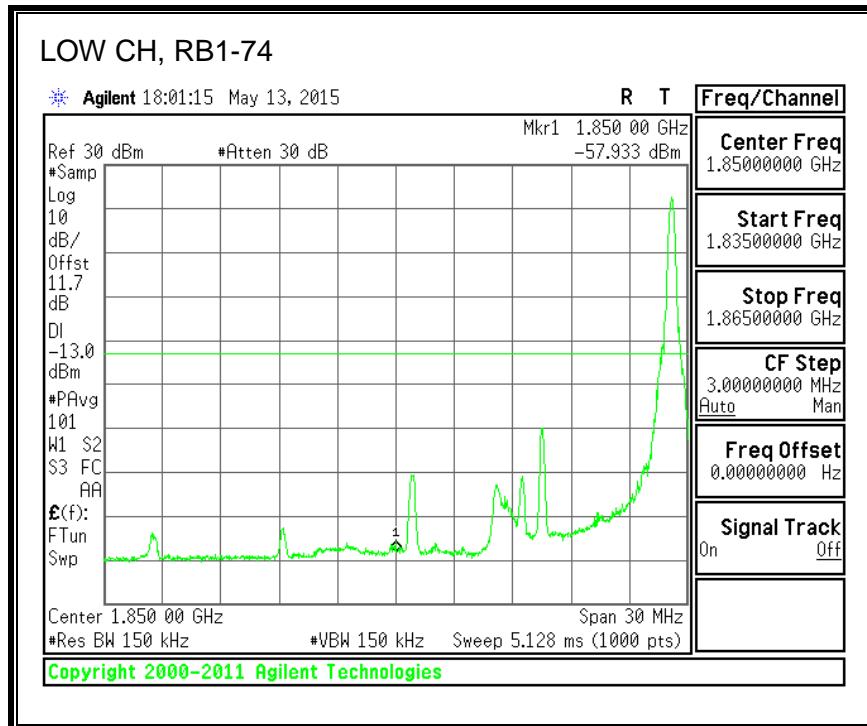
**QPSK, (15.0 MHz BAND WIDTH)**

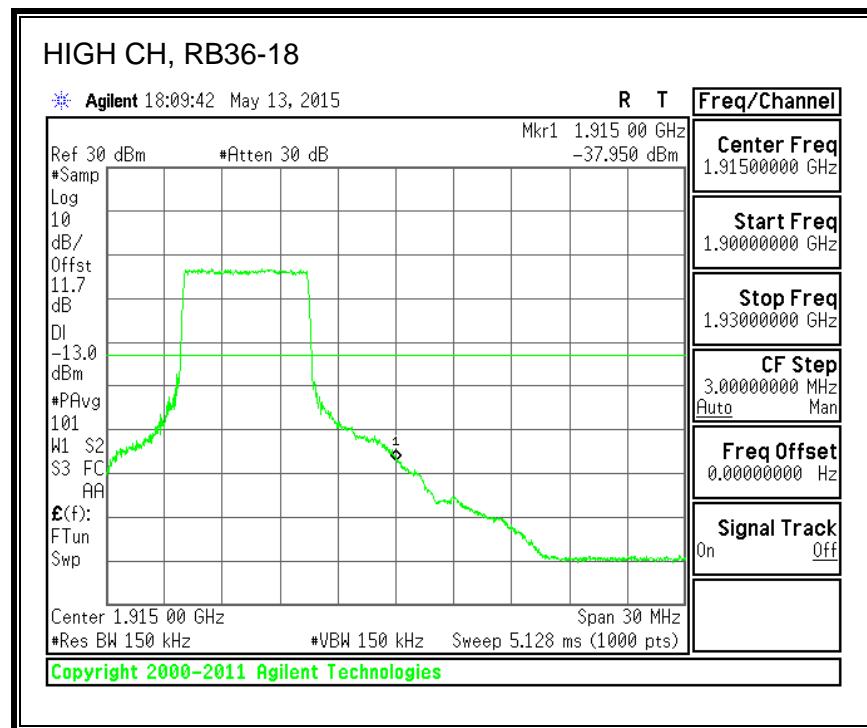
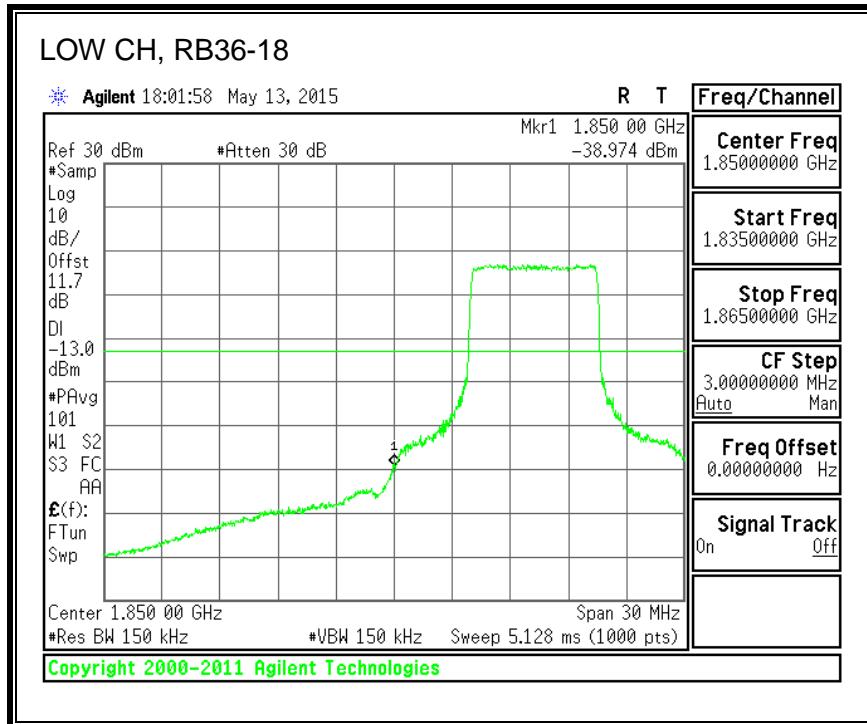






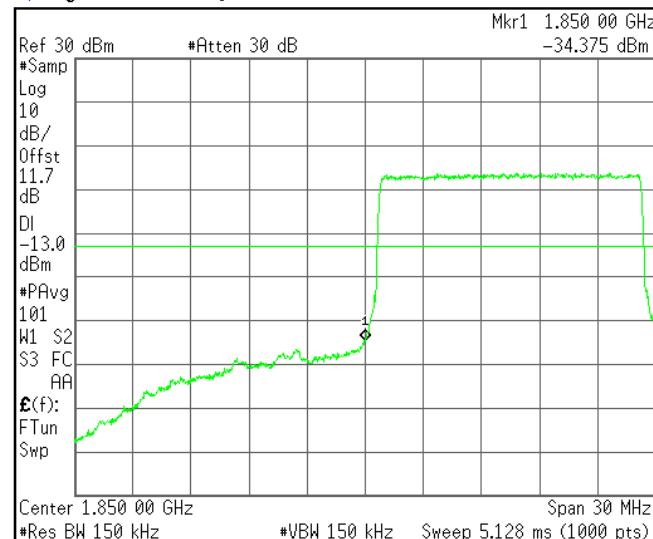
**16QAM, (15.0 MHz BAND WIDTH)**





## LOW CH, RB75-0

\* Agilent 17:59:50 May 13, 2015



R T

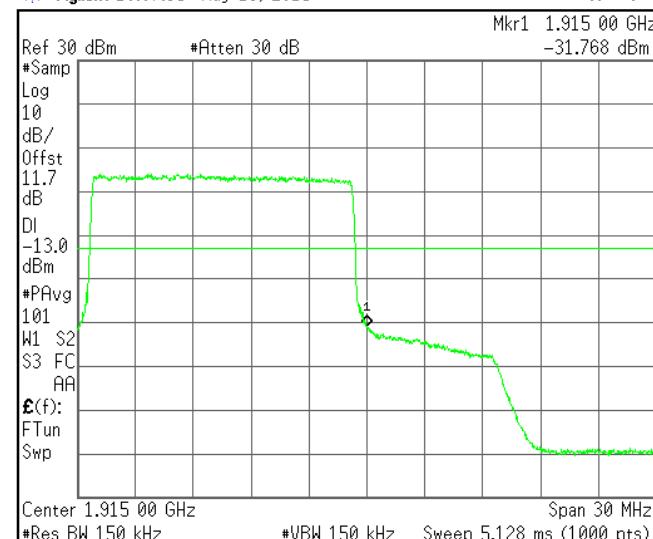
Freq/Channel

Center Freq  
1.85000000 GHzStart Freq  
1.83500000 GHzStop Freq  
1.86500000 GHzCF Step  
3.00000000 MHz  
Auto ManFreq Offset  
0.00000000 HzSignal Track  
On Off

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## HIGH CH, RB75-0

\* Agilent 18:07:35 May 13, 2015

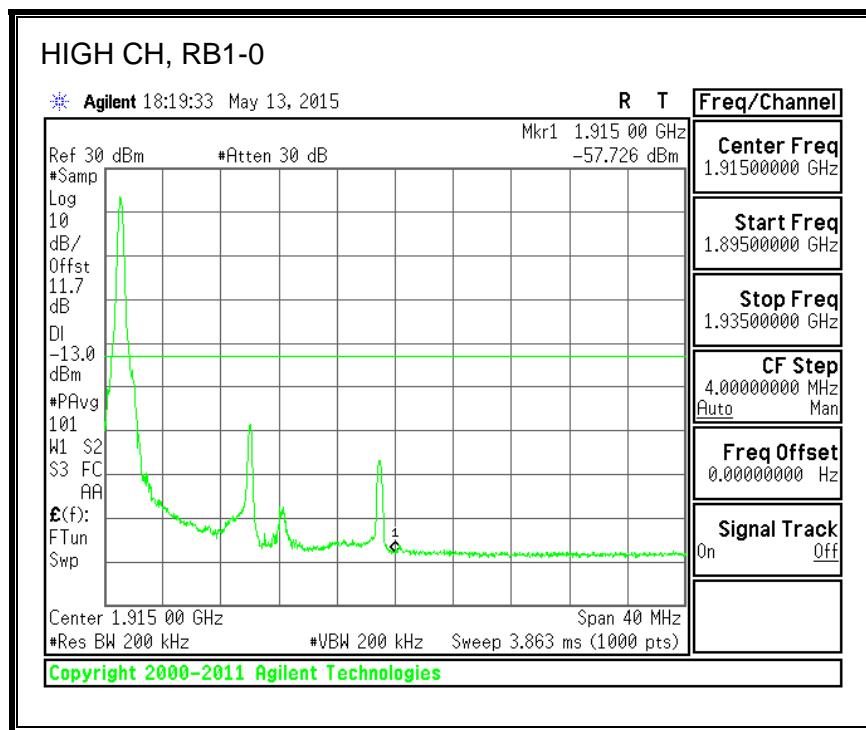
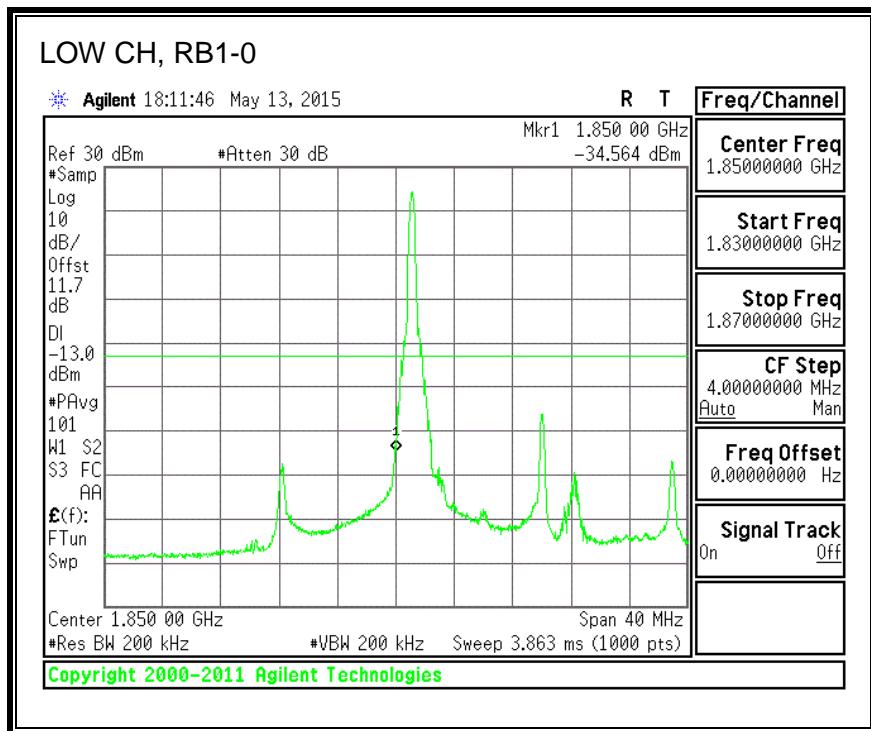


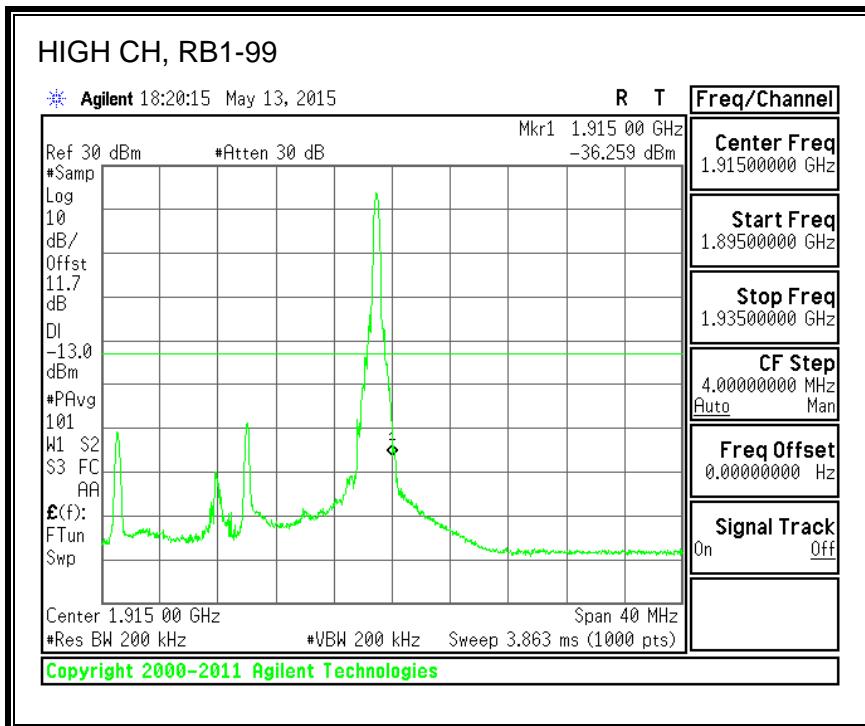
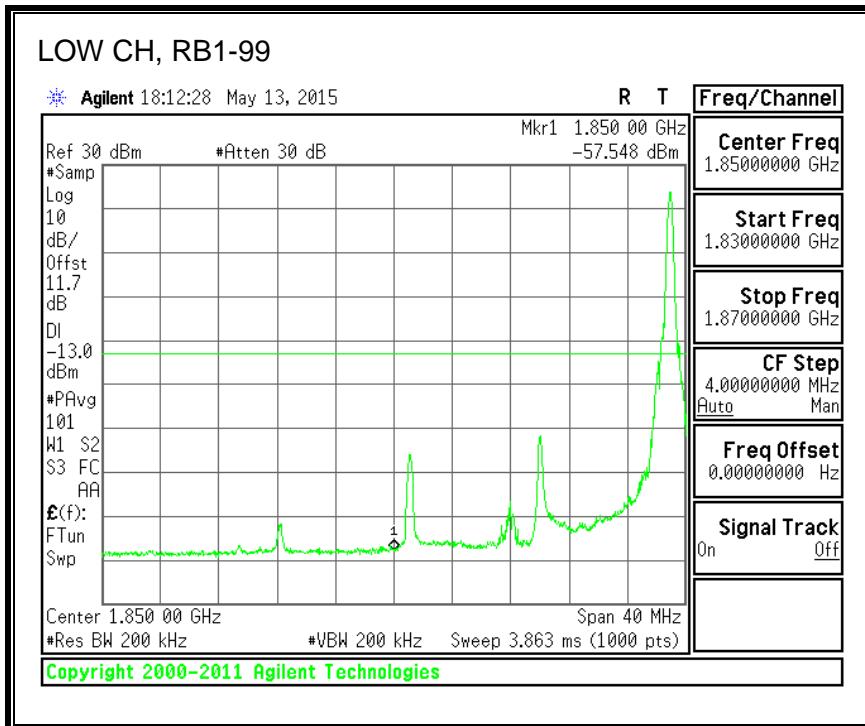
R T

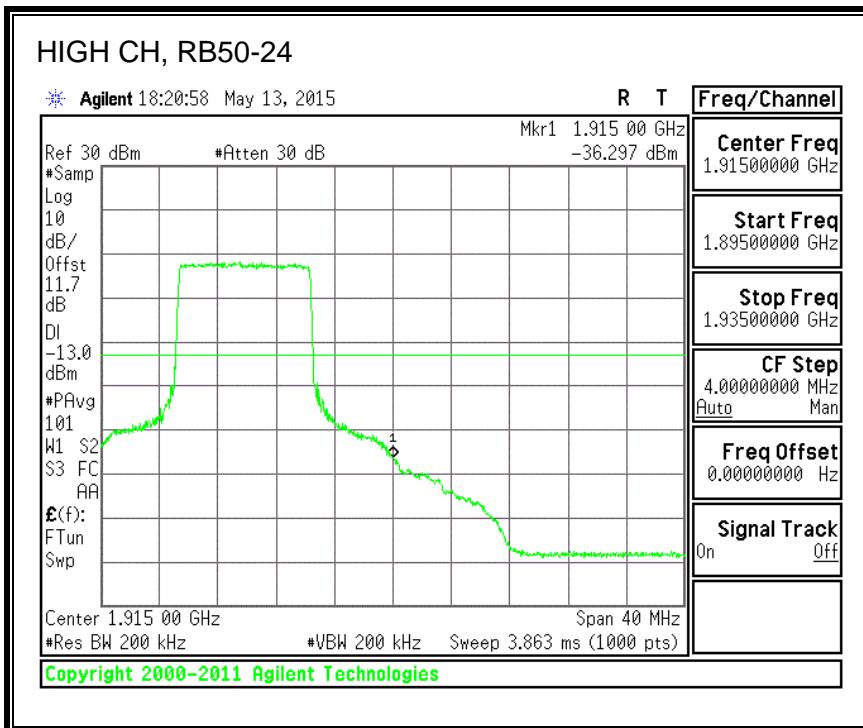
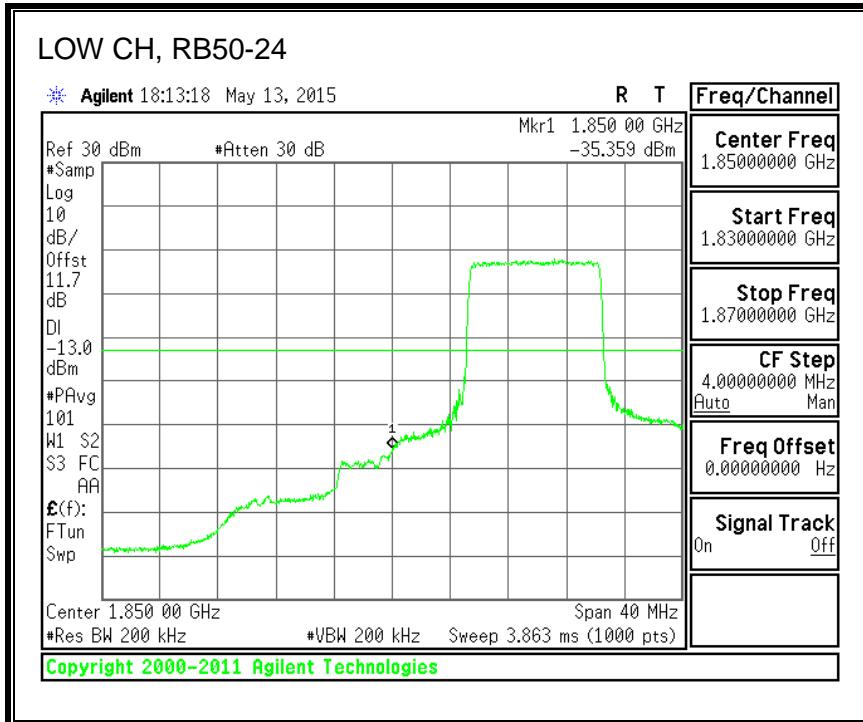
Freq/Channel

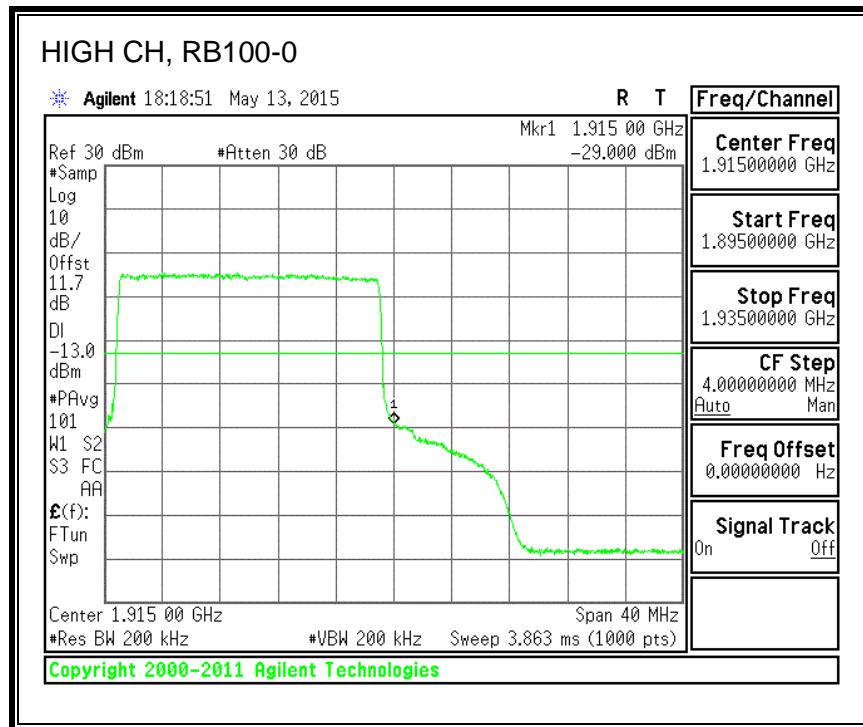
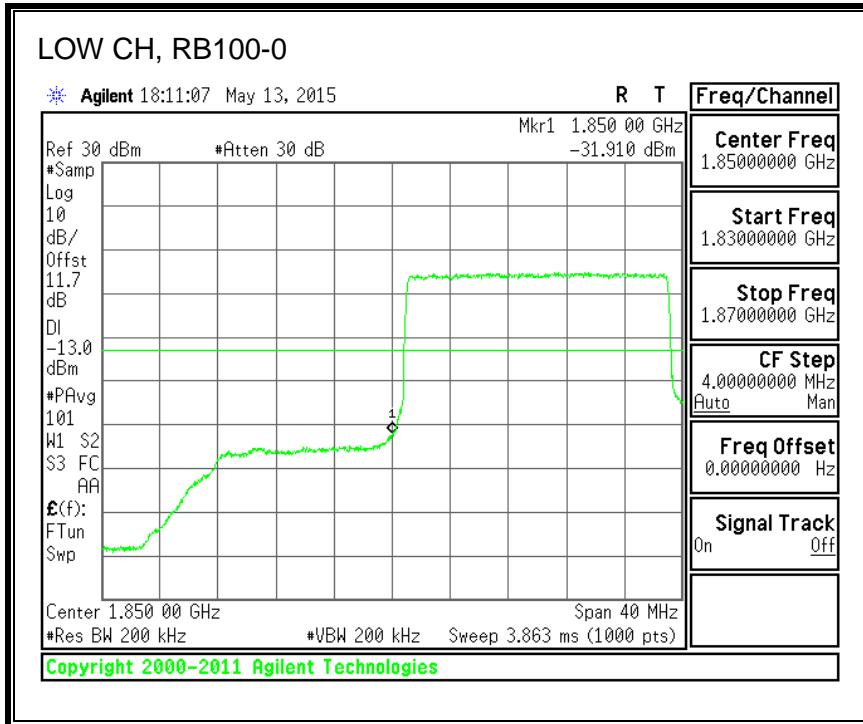
Center Freq  
1.91500000 GHzStart Freq  
1.90000000 GHzStop Freq  
1.93000000 GHzCF Step  
3.00000000 MHz  
Auto ManFreq Offset  
0.00000000 HzSignal Track  
On Off

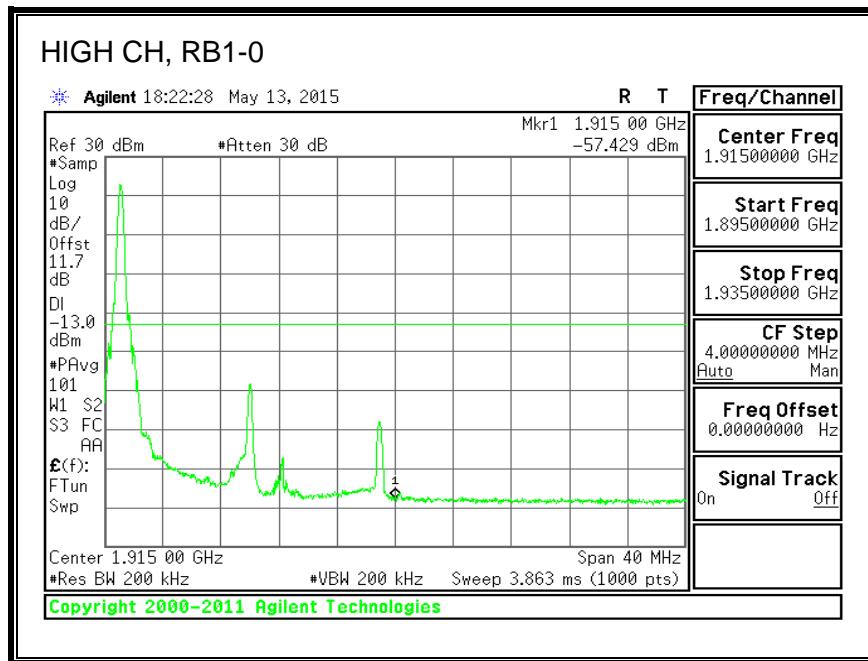
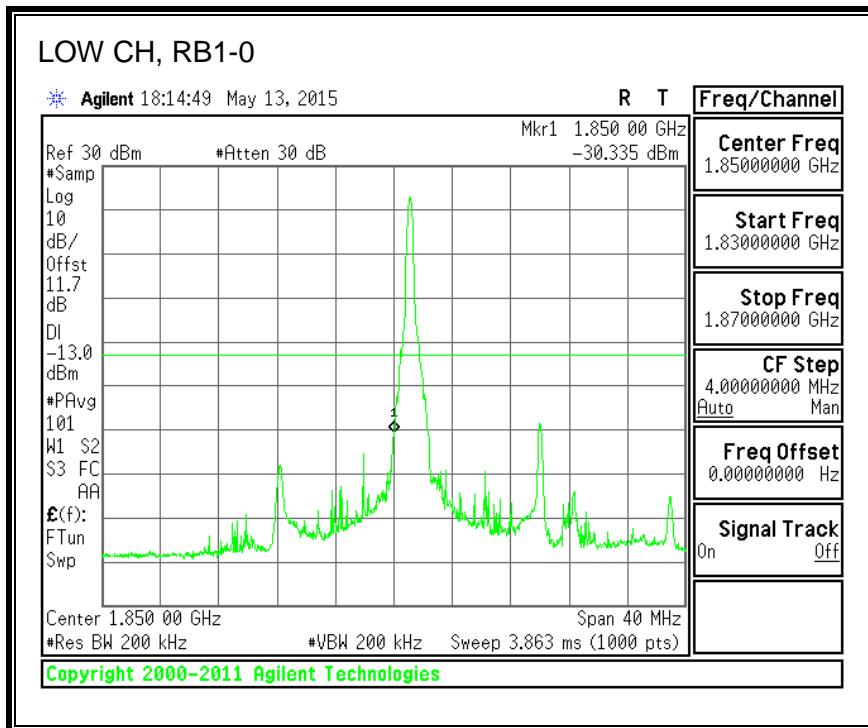
Copyright 2000-2011 Agilent Technologies

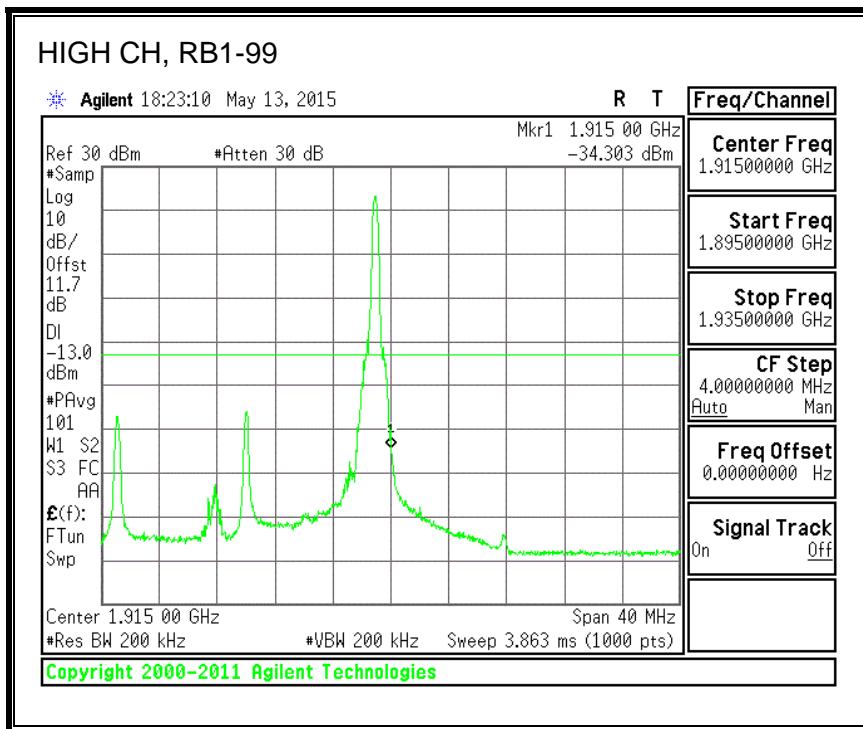
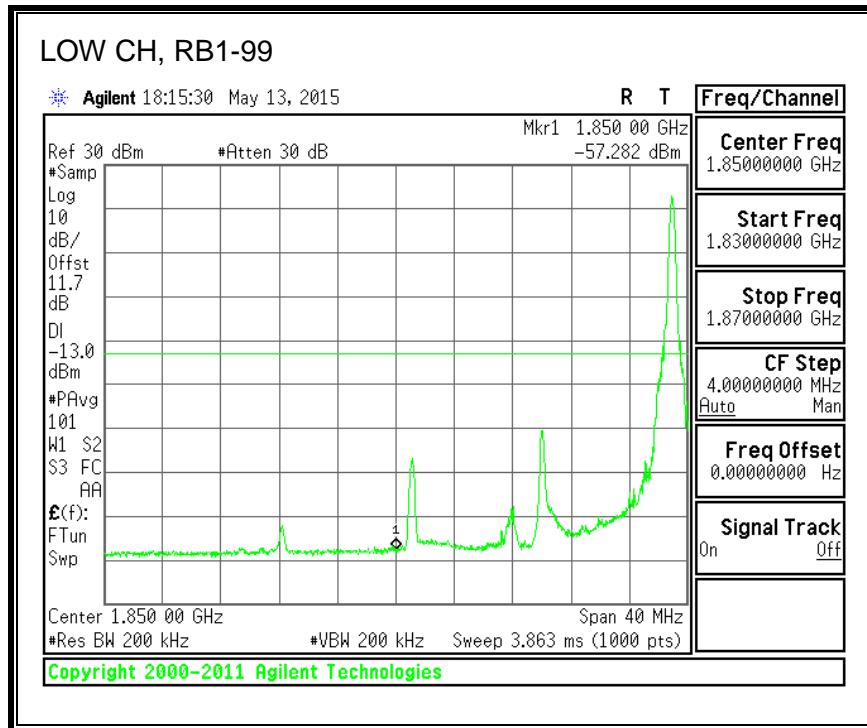
**QPSK, (20.0 MHz BAND WIDTH)**

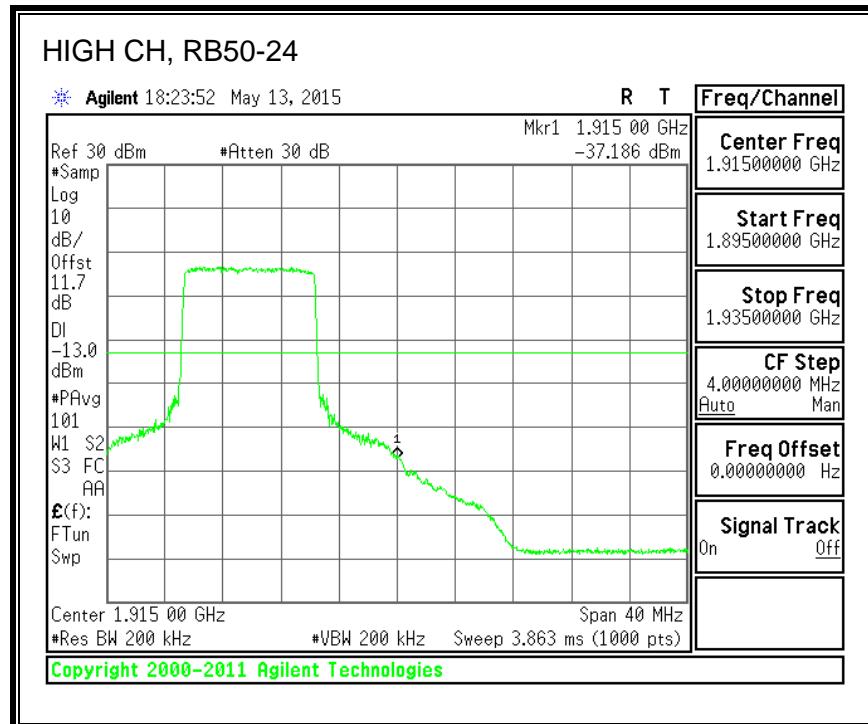
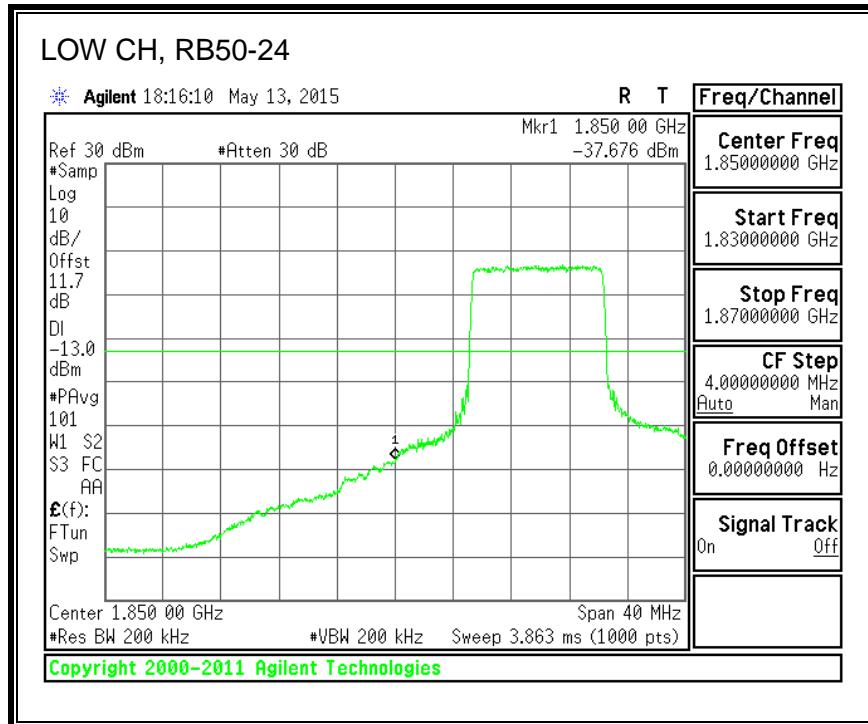


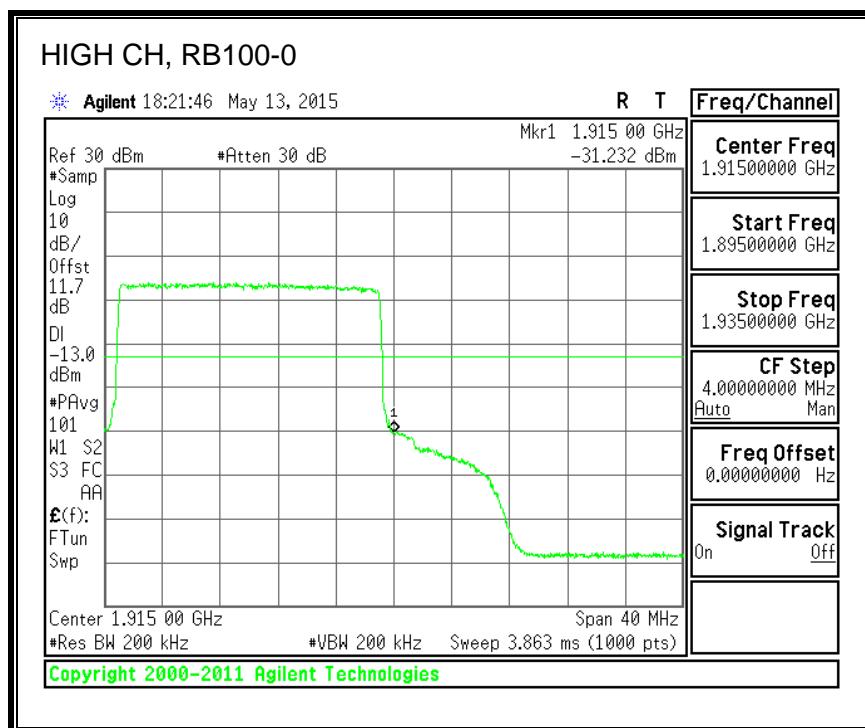
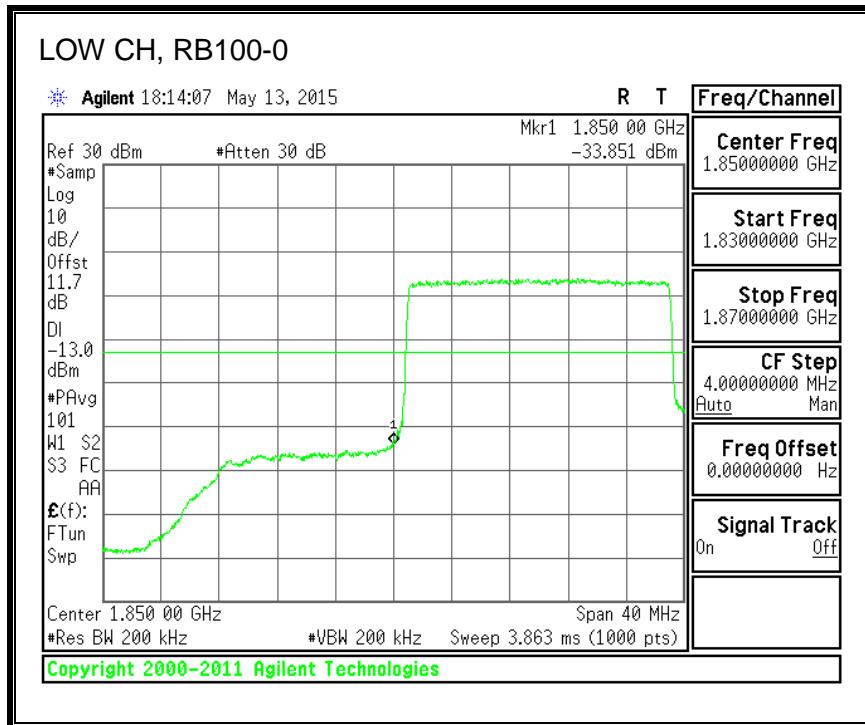




**16QAM, (20.0 MHz BAND WIDTH)**

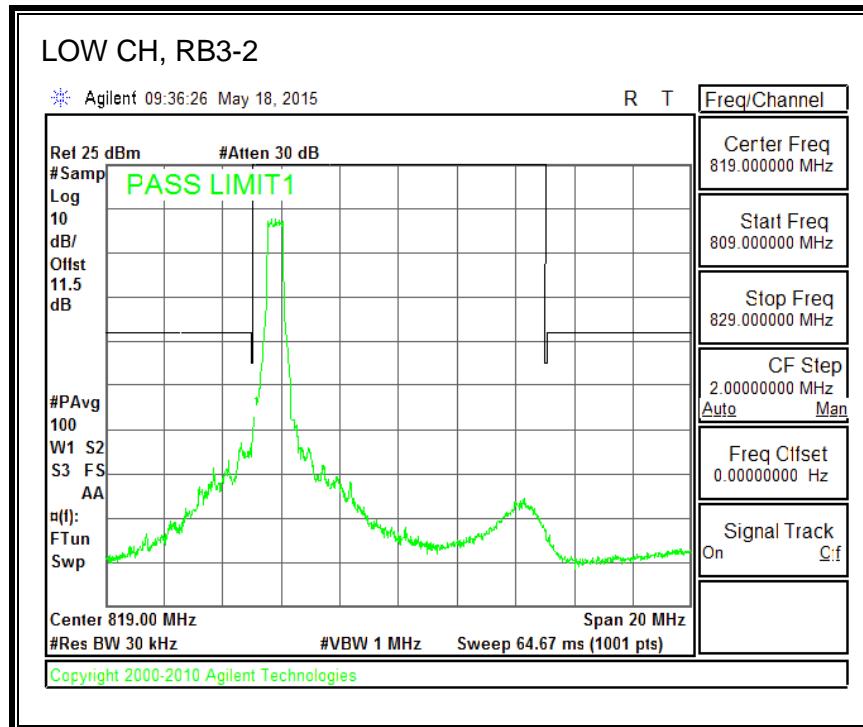
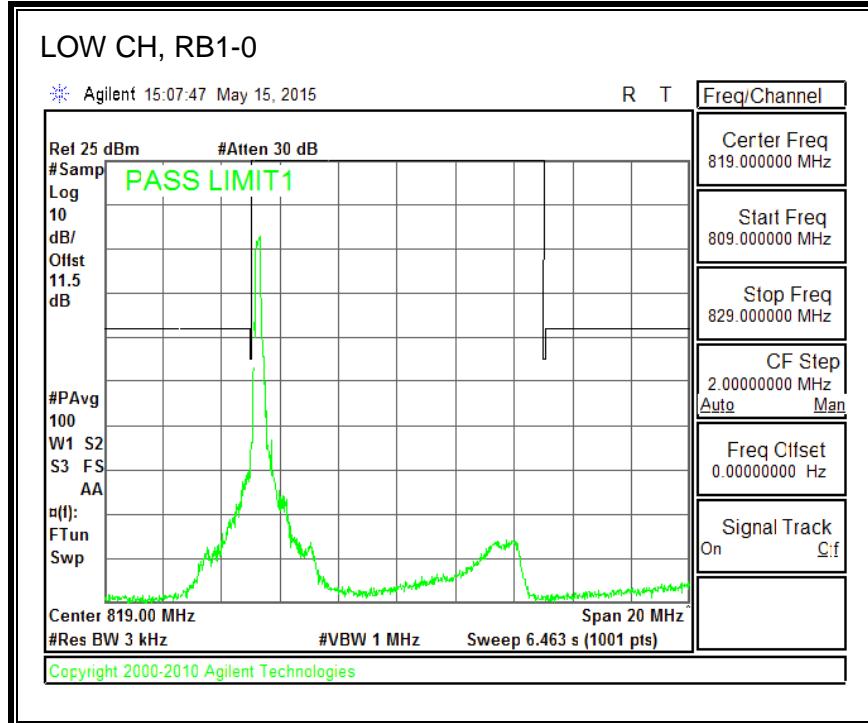


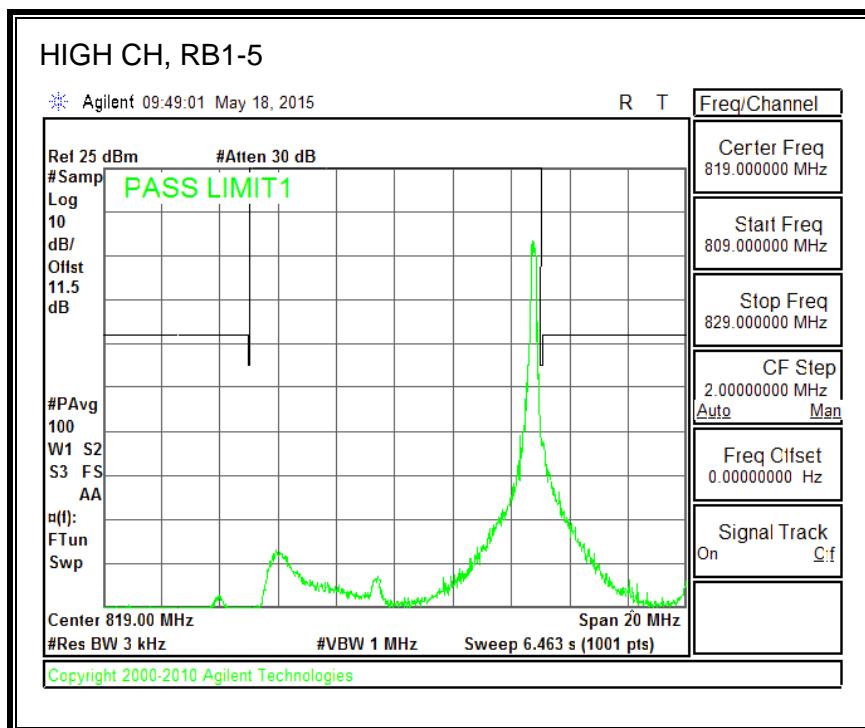
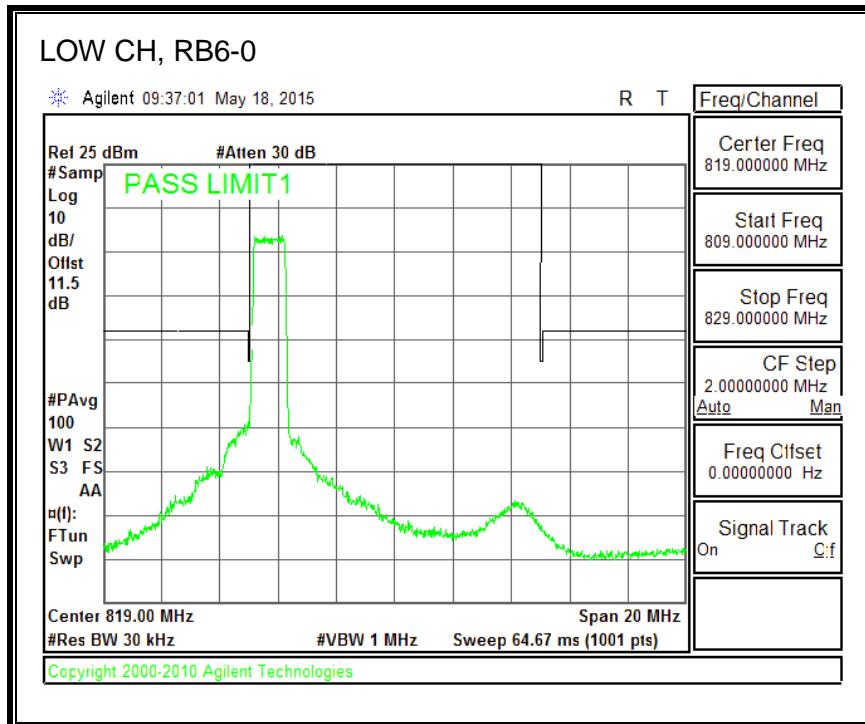


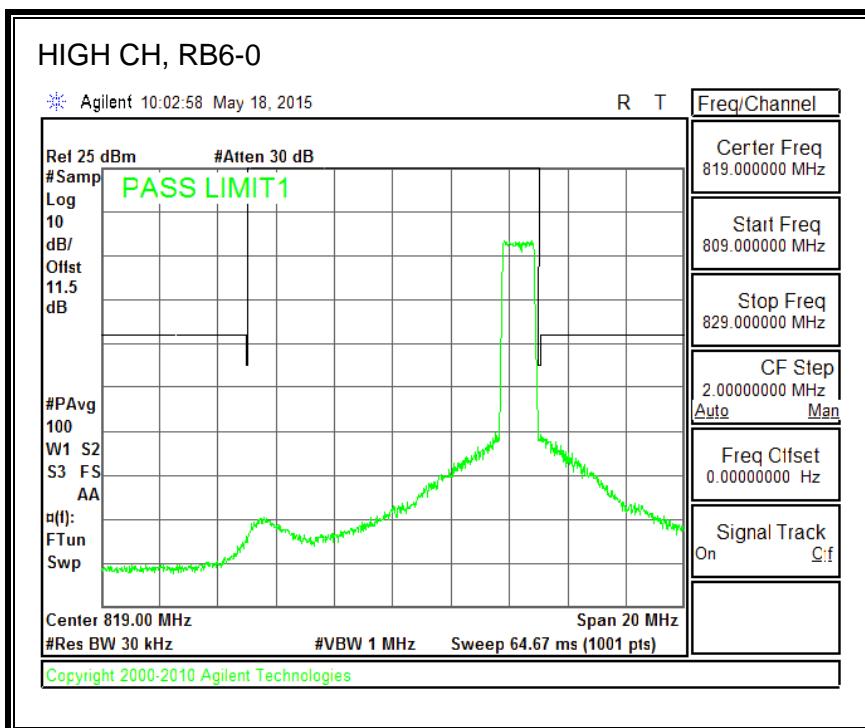
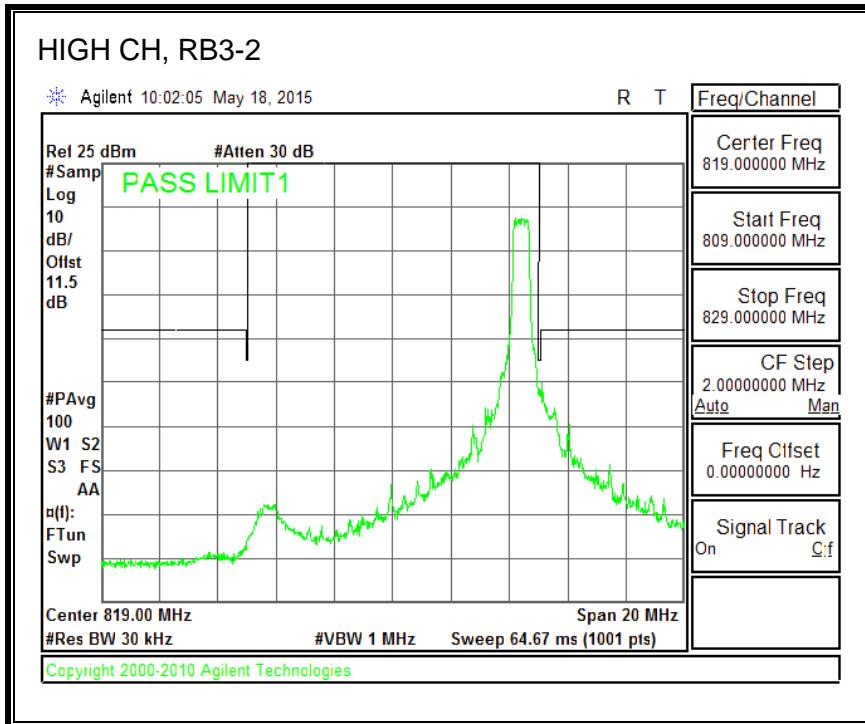


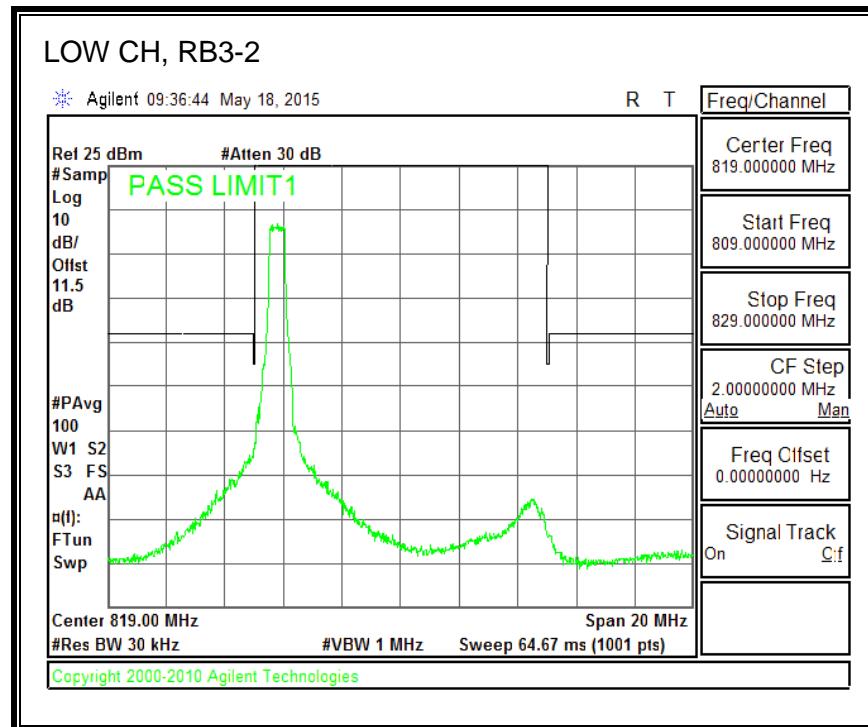
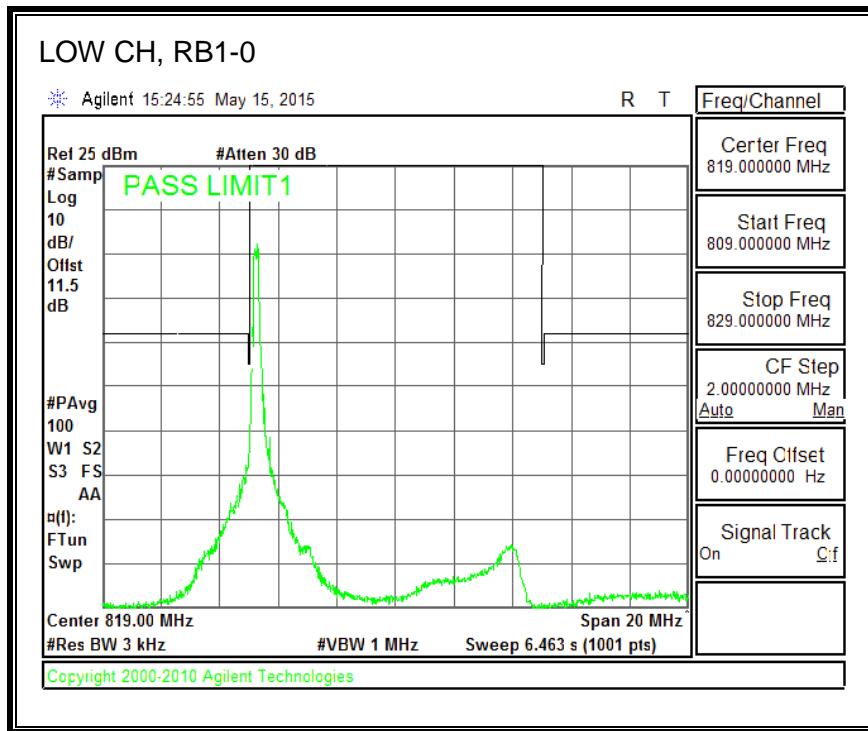
### 8.4.9. LTE BAND 26 EMISSION MASK

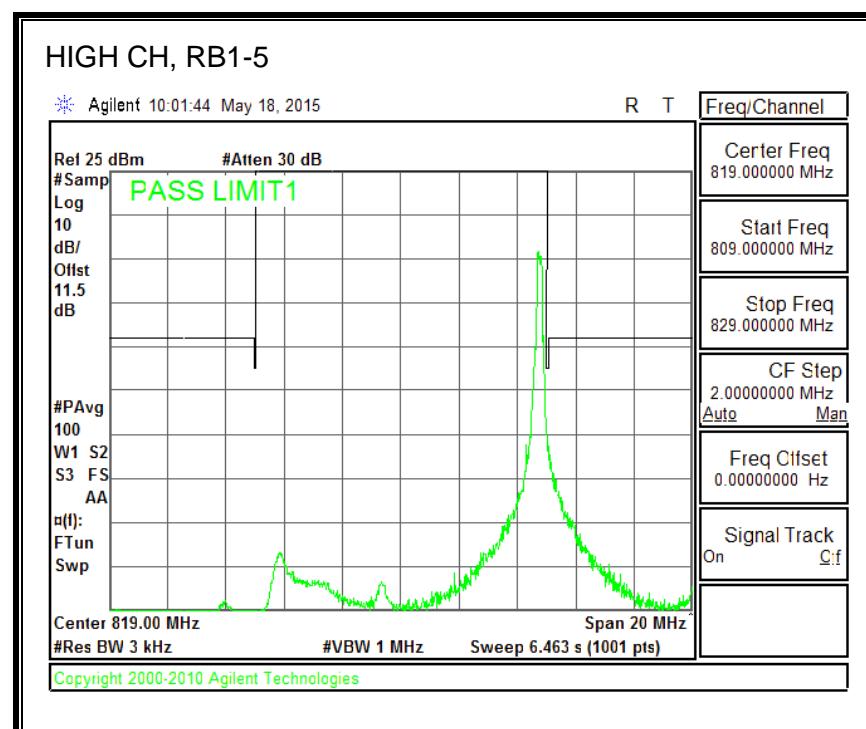
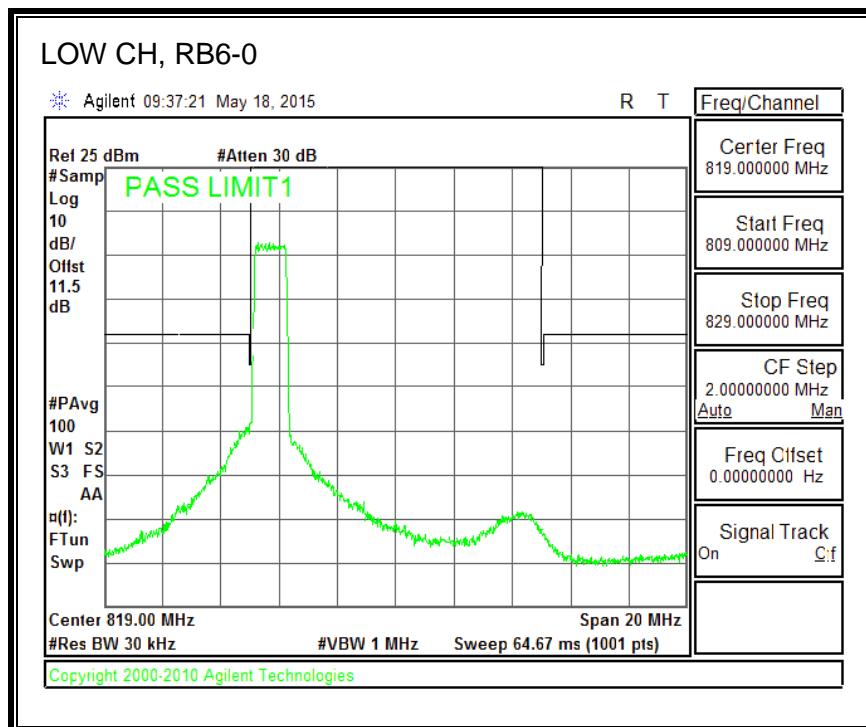
#### QPSK, (1.4 MHz BAND WIDTH)



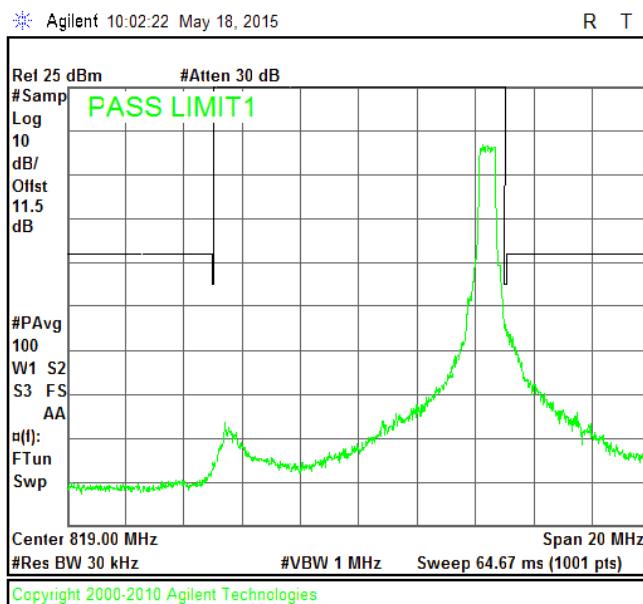




**16QAM, (1.4 MHz BAND WIDTH)**



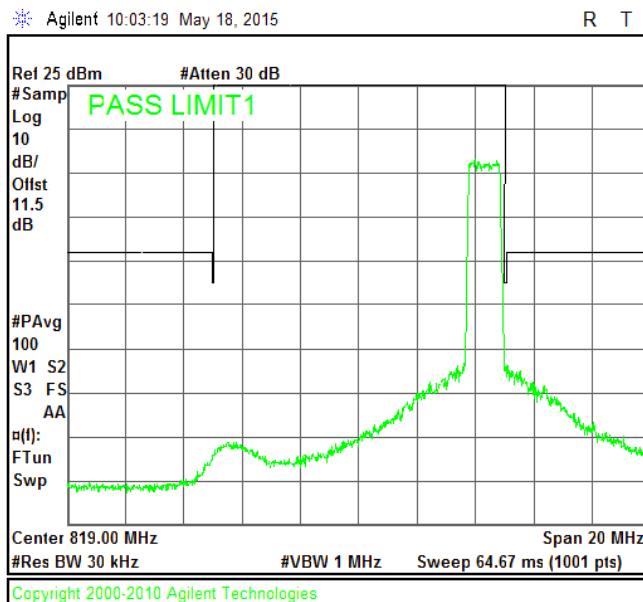
## HIGH CH, RB3-2



R T

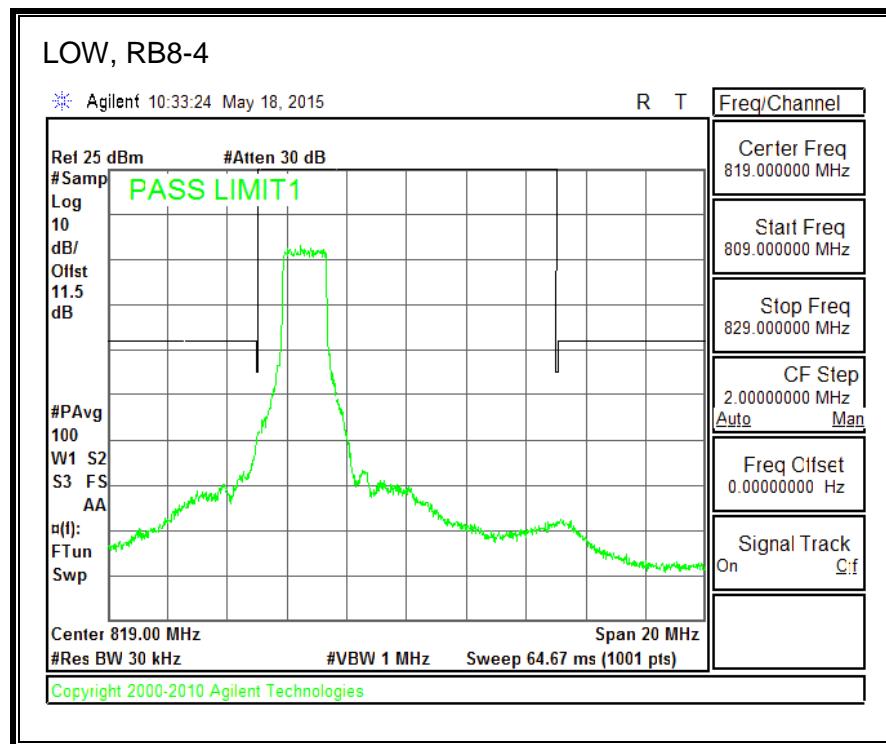
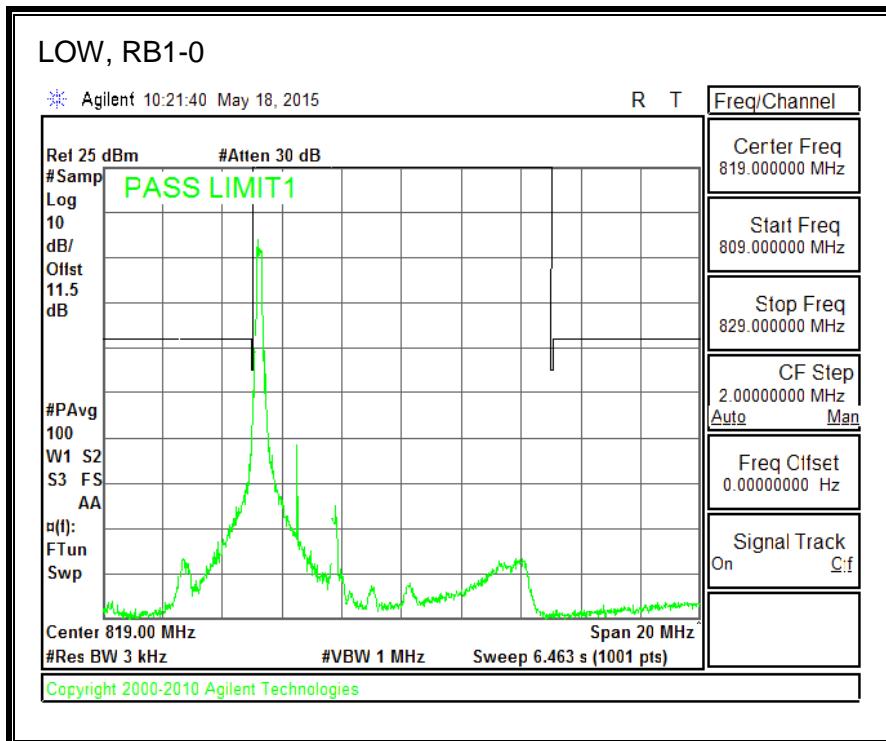
Freq/Channel	
Center Freq	819.000000 MHz
Start Freq	809.000000 MHz
Stop Freq	829.000000 MHz
CF Step	2.00000000 MHz
Auto	Man
Freq Clsif	0.00000000 Hz
Signal Track	On Cf

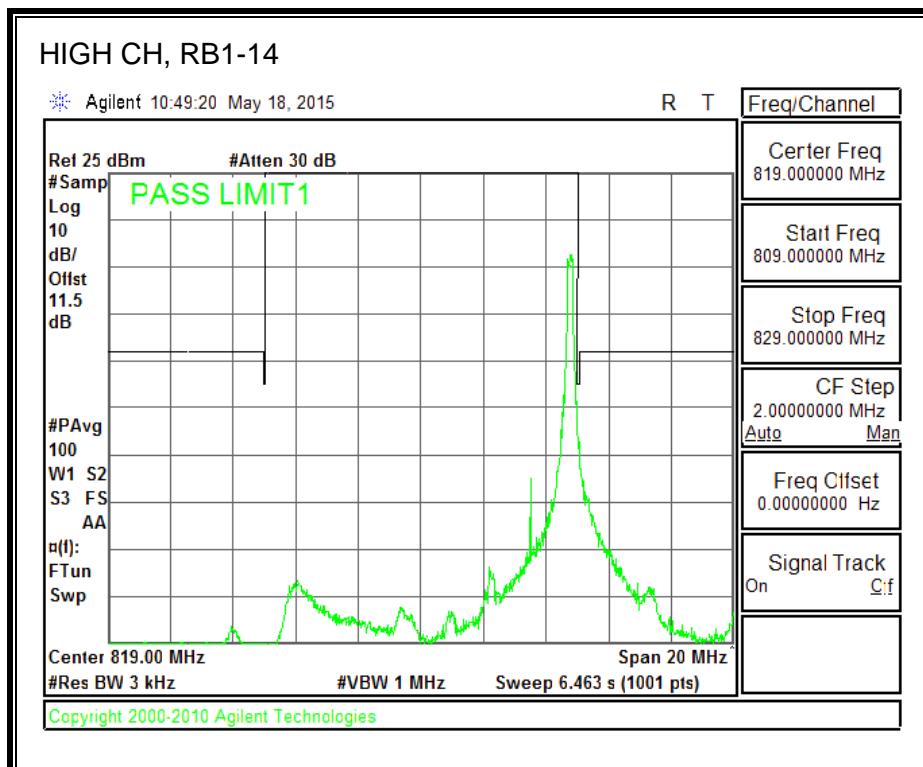
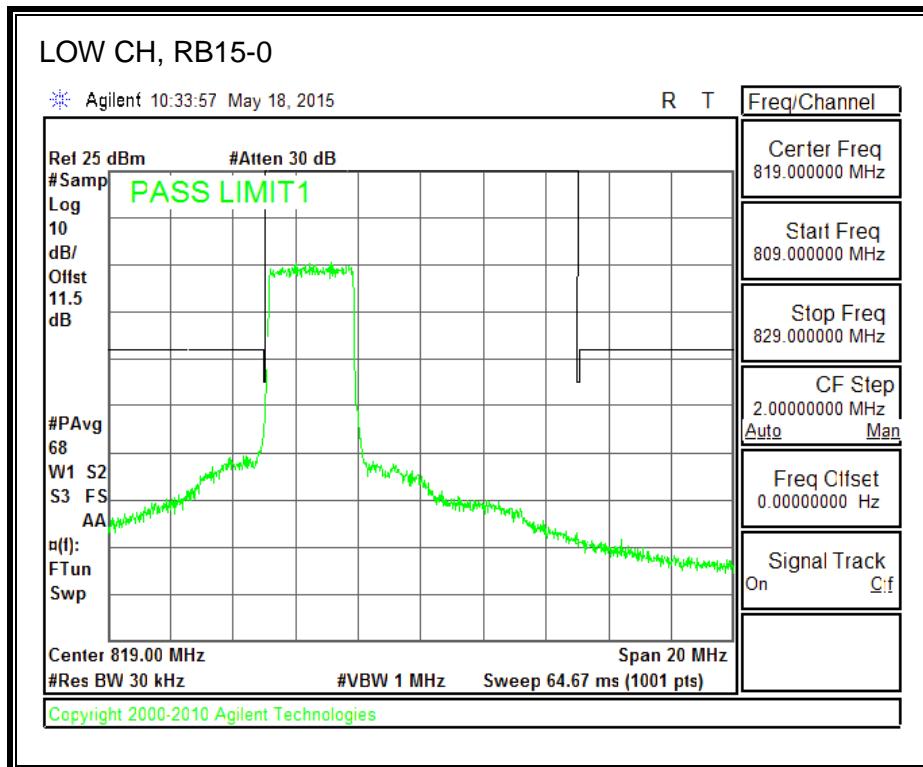
## HIGH CH, RB6-0

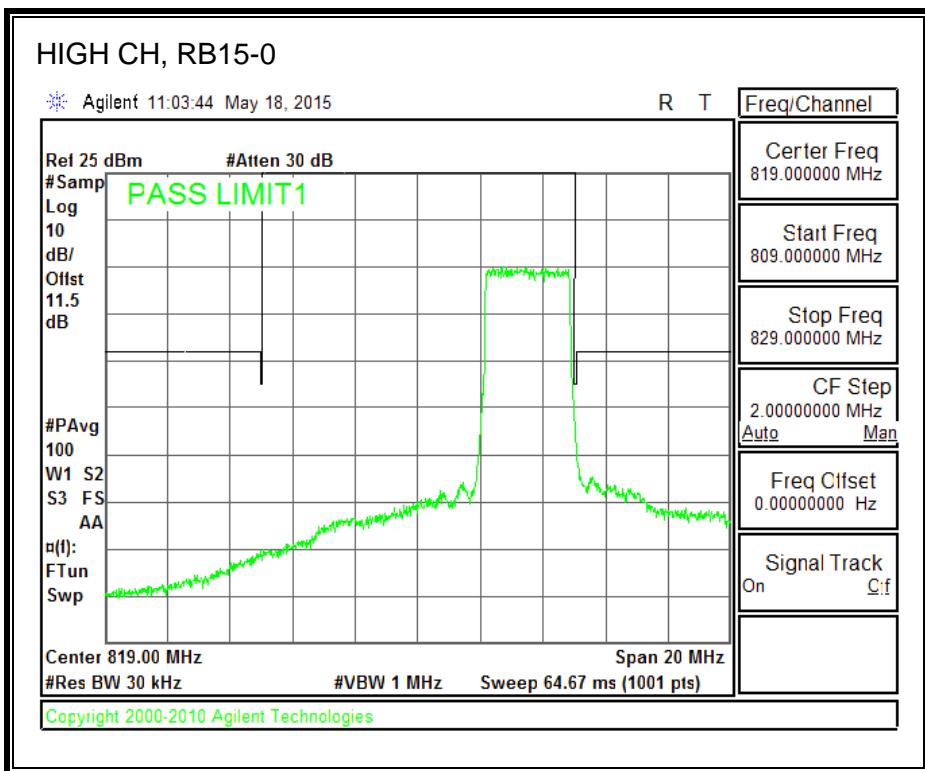
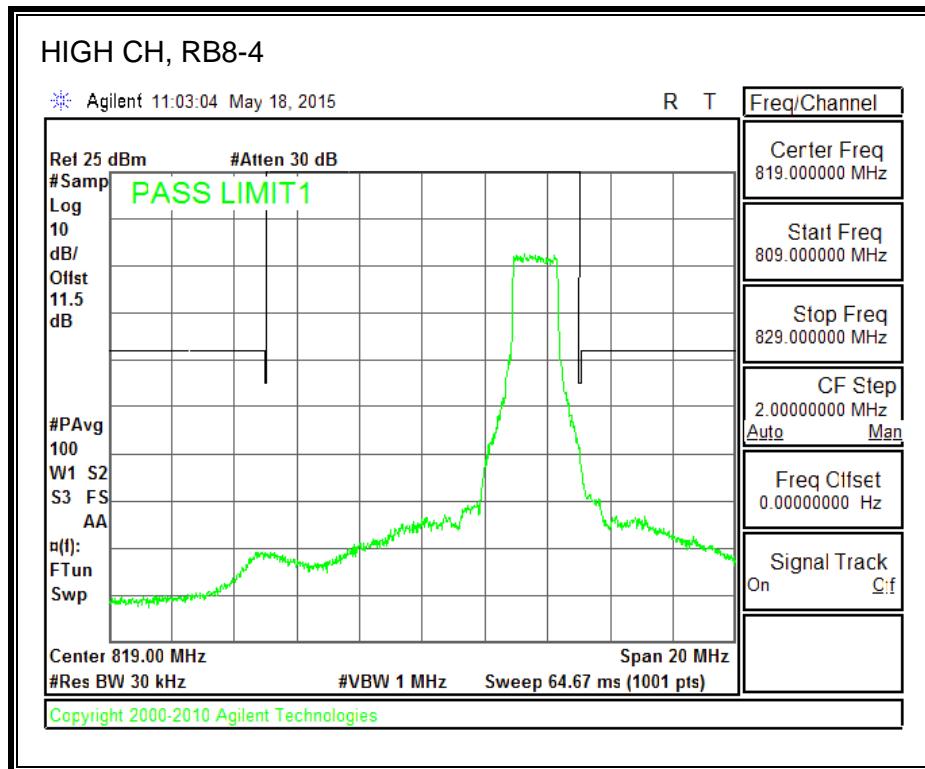


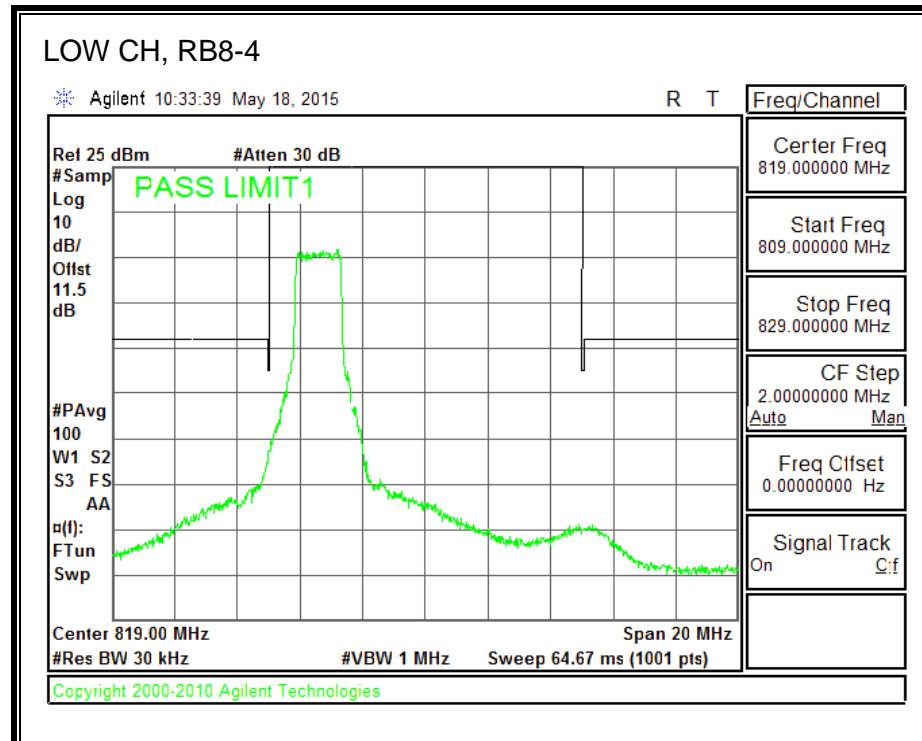
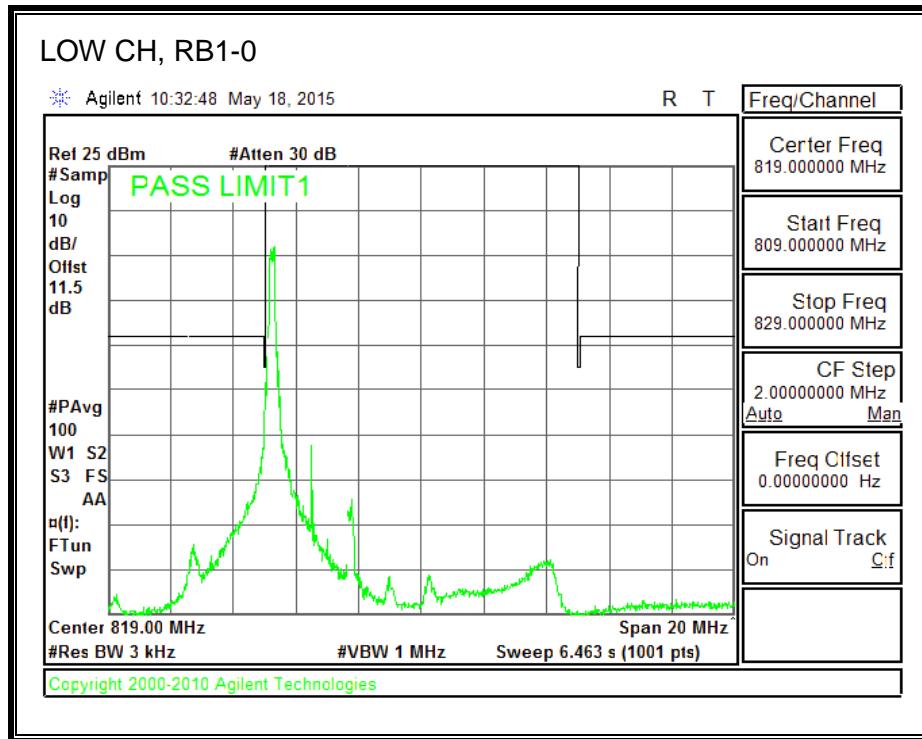
R T

Freq/Channel	
Center Freq	819.000000 MHz
Start Freq	809.000000 MHz
Stop Freq	829.000000 MHz
CF Step	2.00000000 MHz
Auto	Man
Freq Clsif	0.00000000 Hz
Signal Track	On Cf

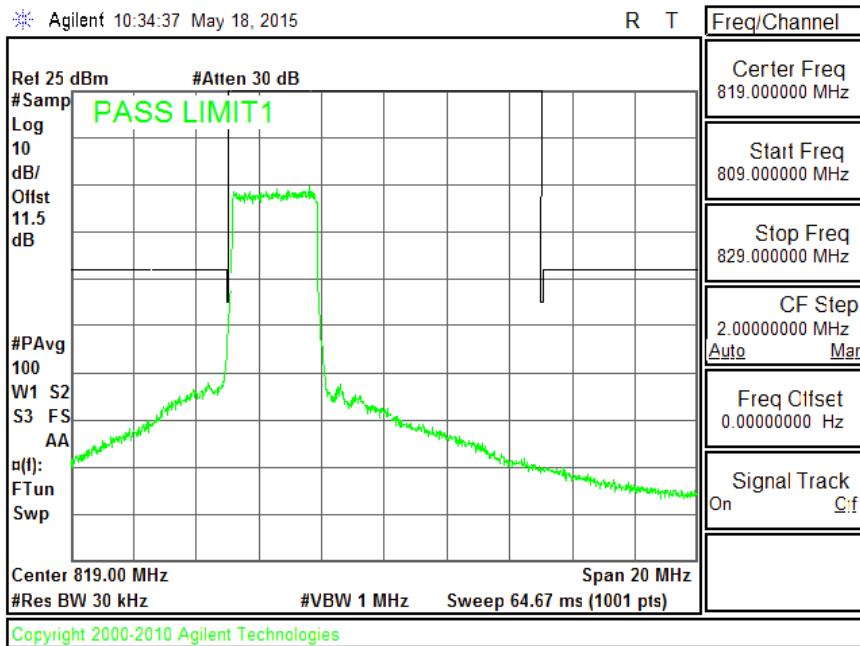
**QPSK, (3.0 MHz BAND WIDTH)**



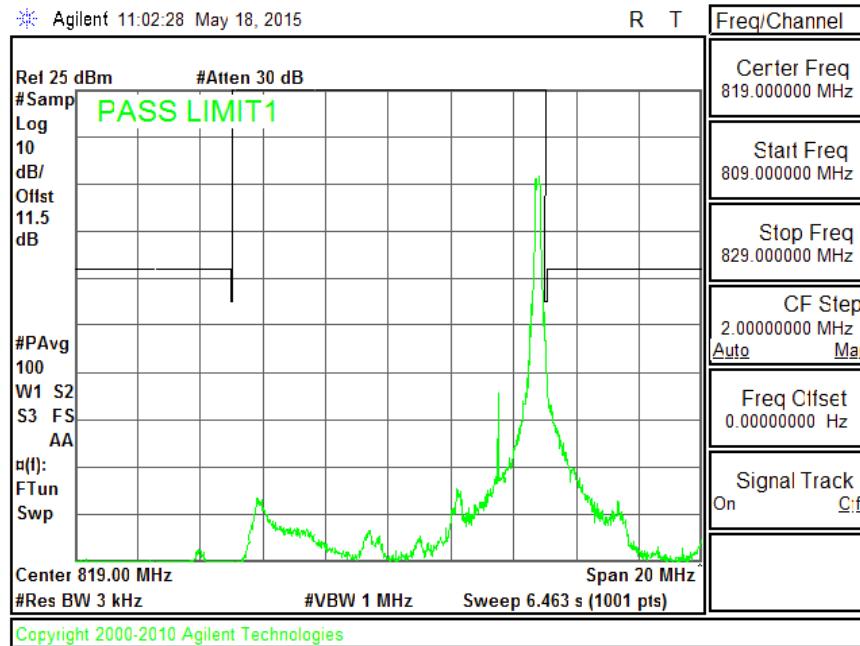


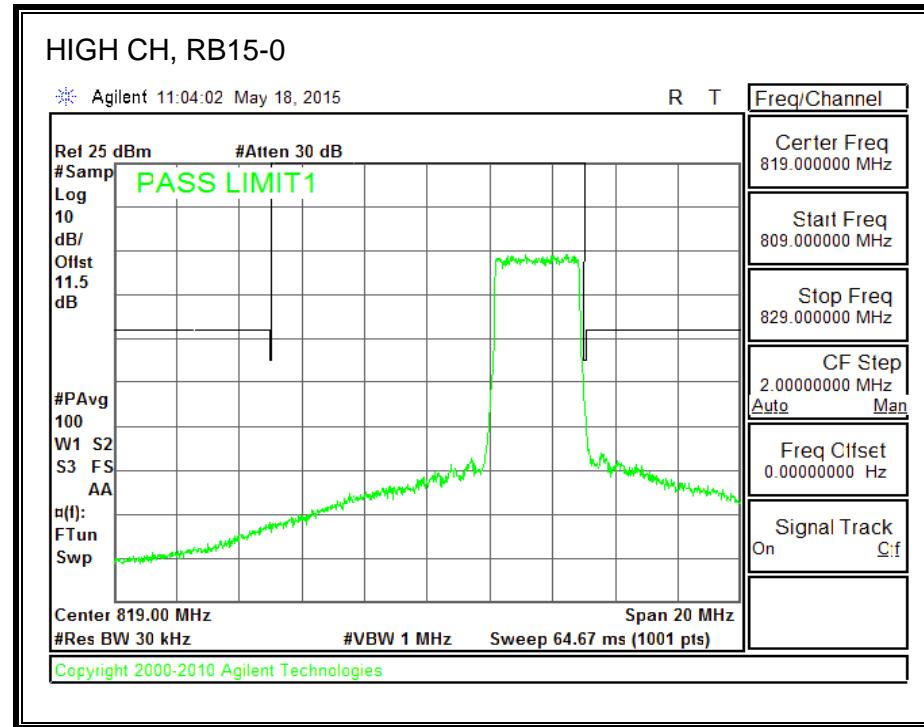
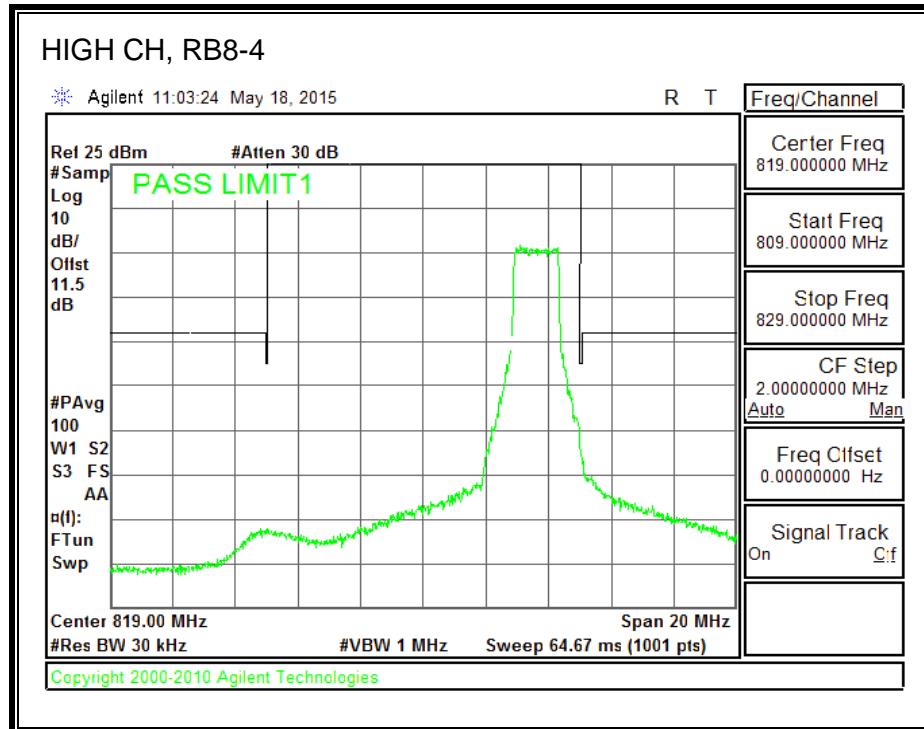
**16QAM, (3.0 MHz BAND WIDTH)**

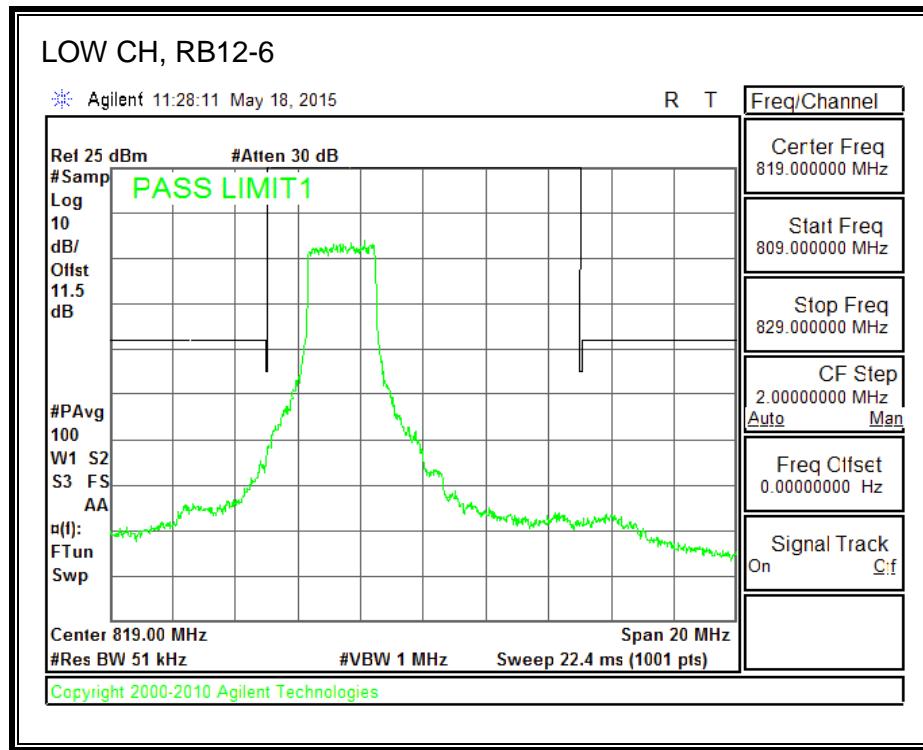
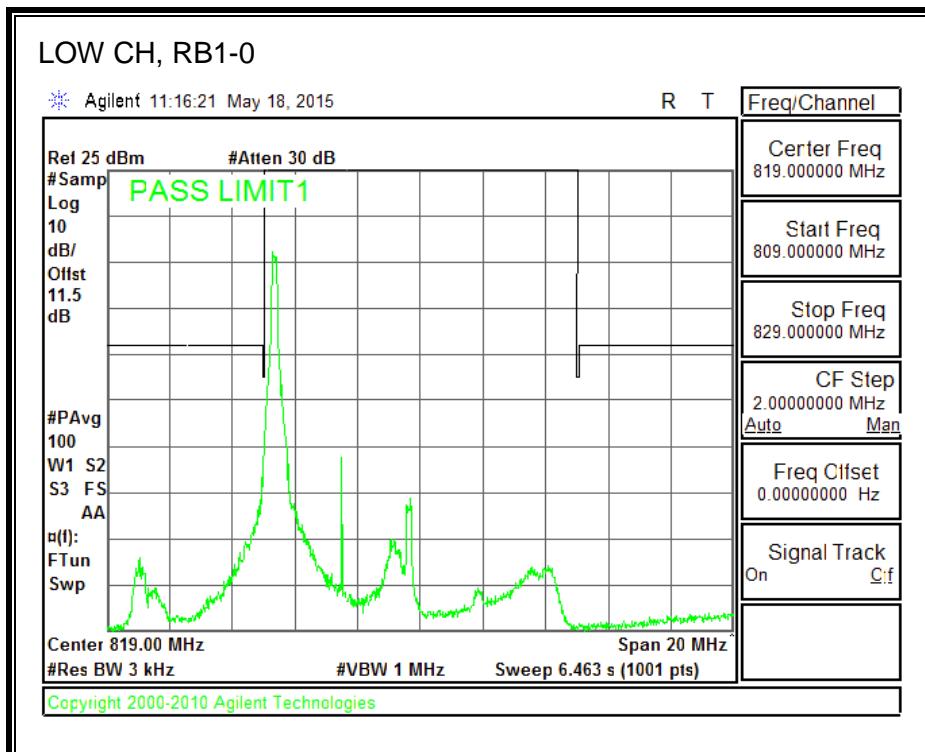
## LOW CH, RB15-0

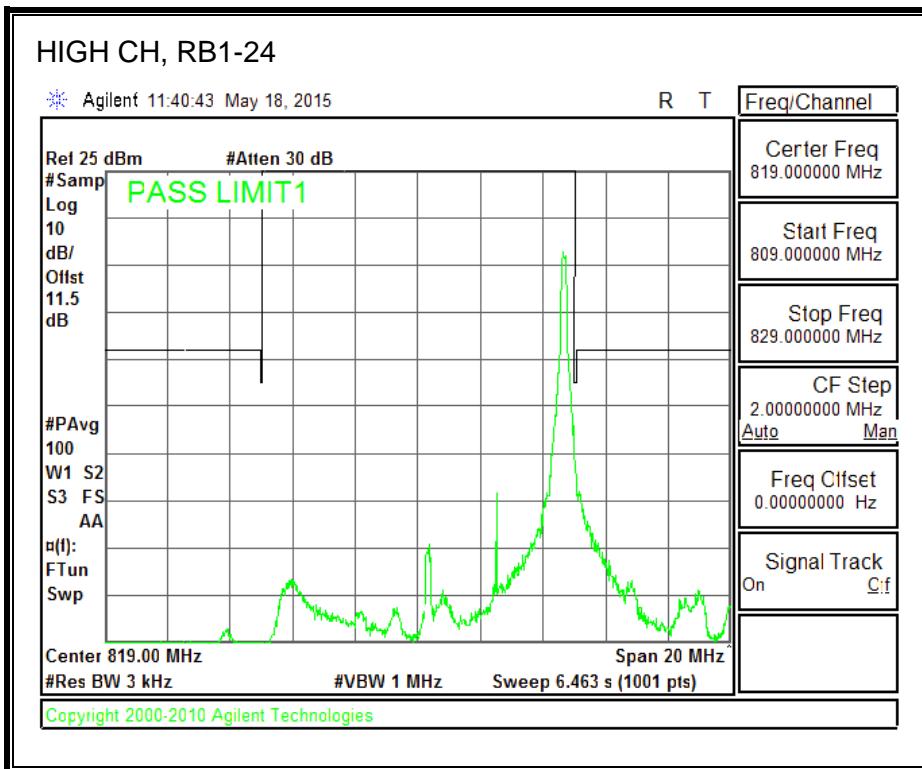
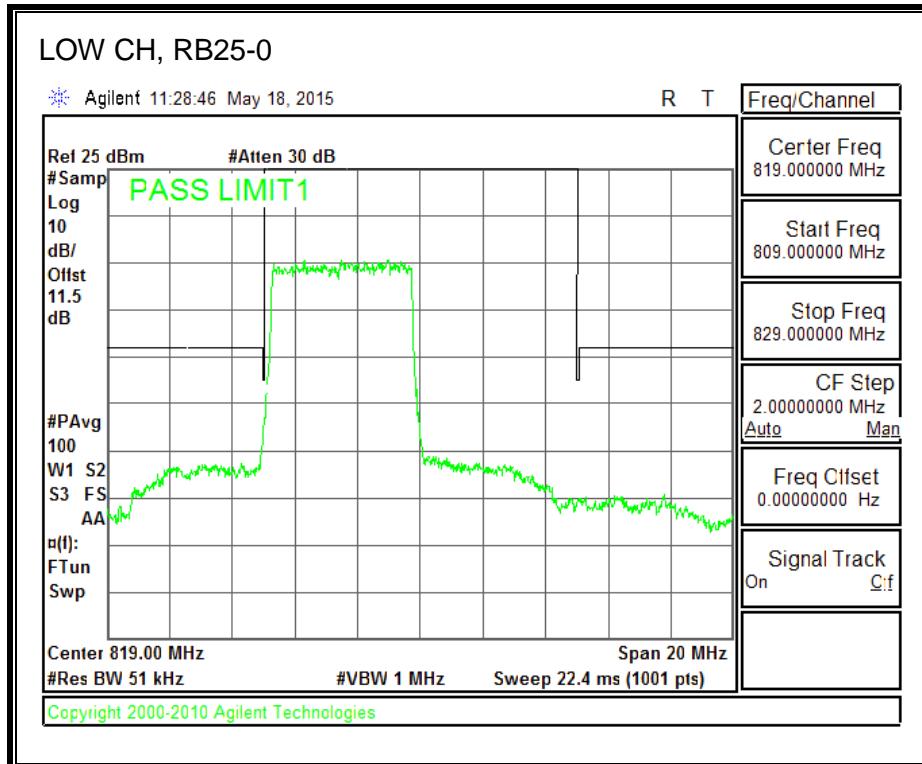


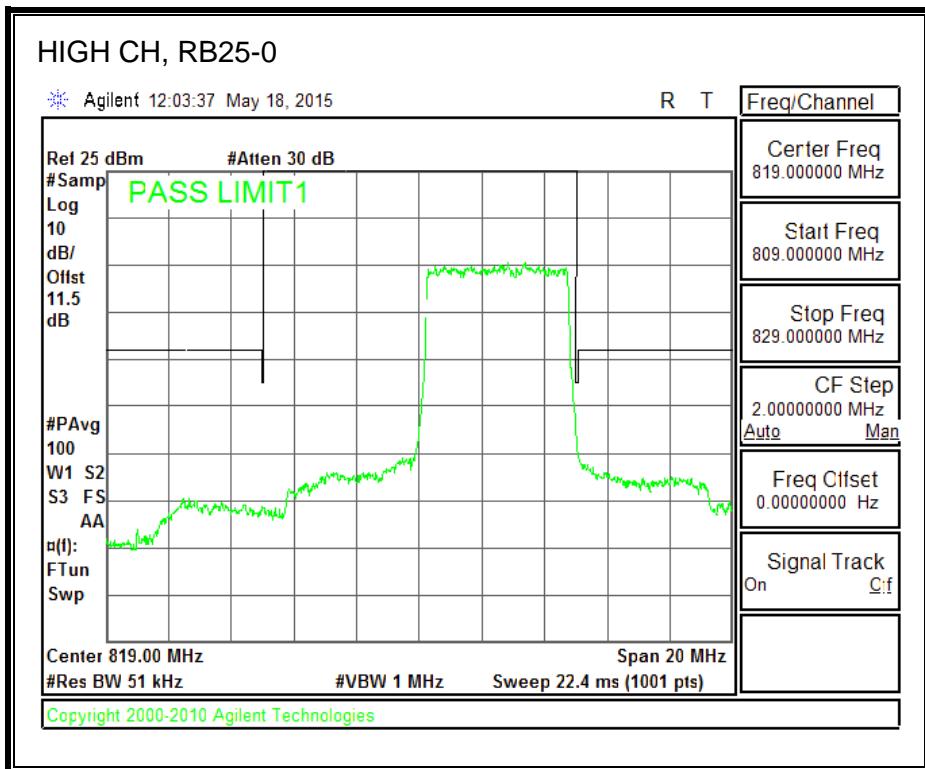
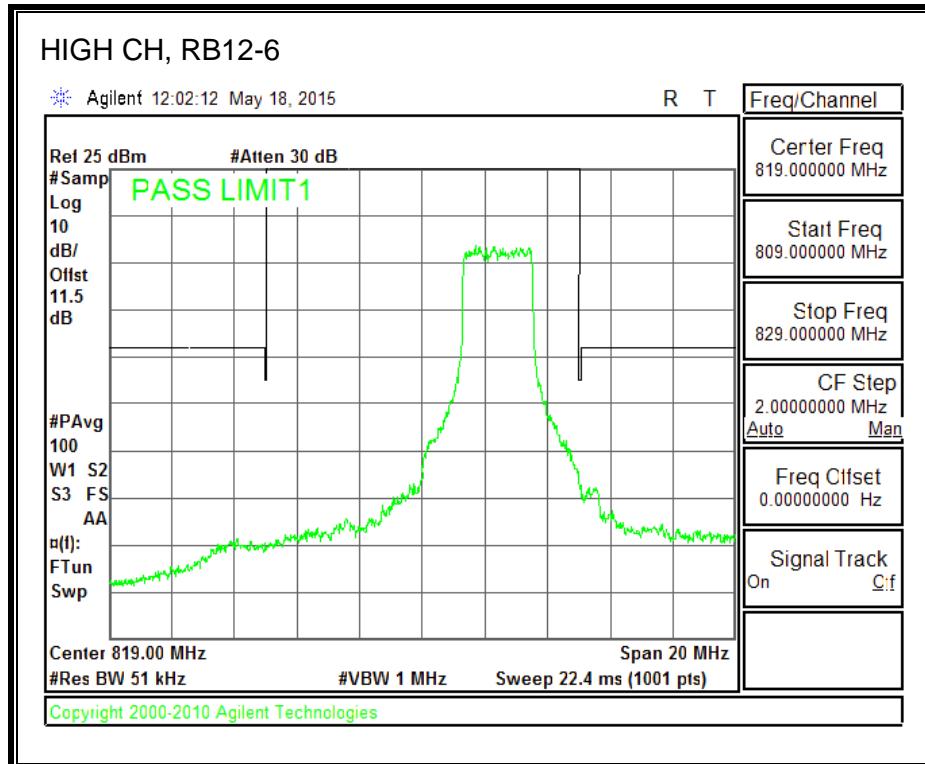
## HIGH CH, RB1-14

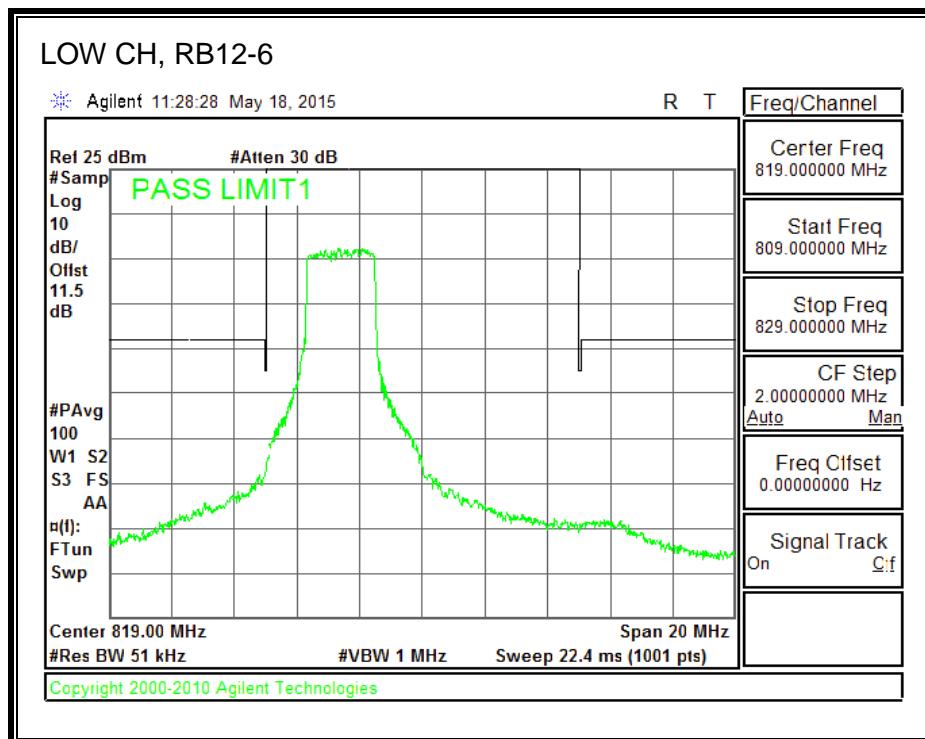
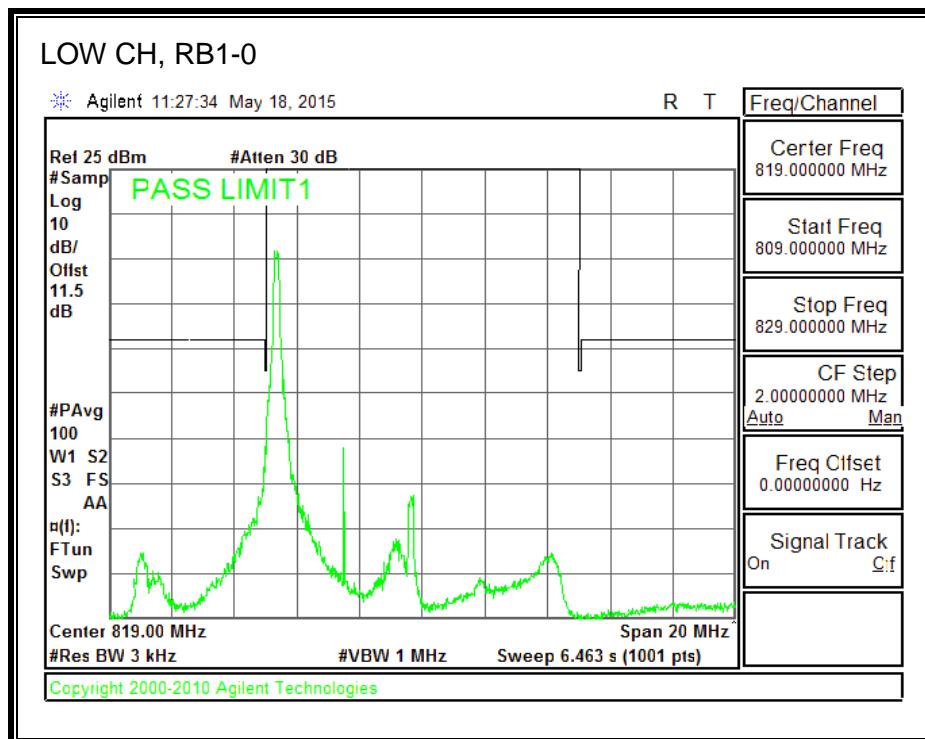


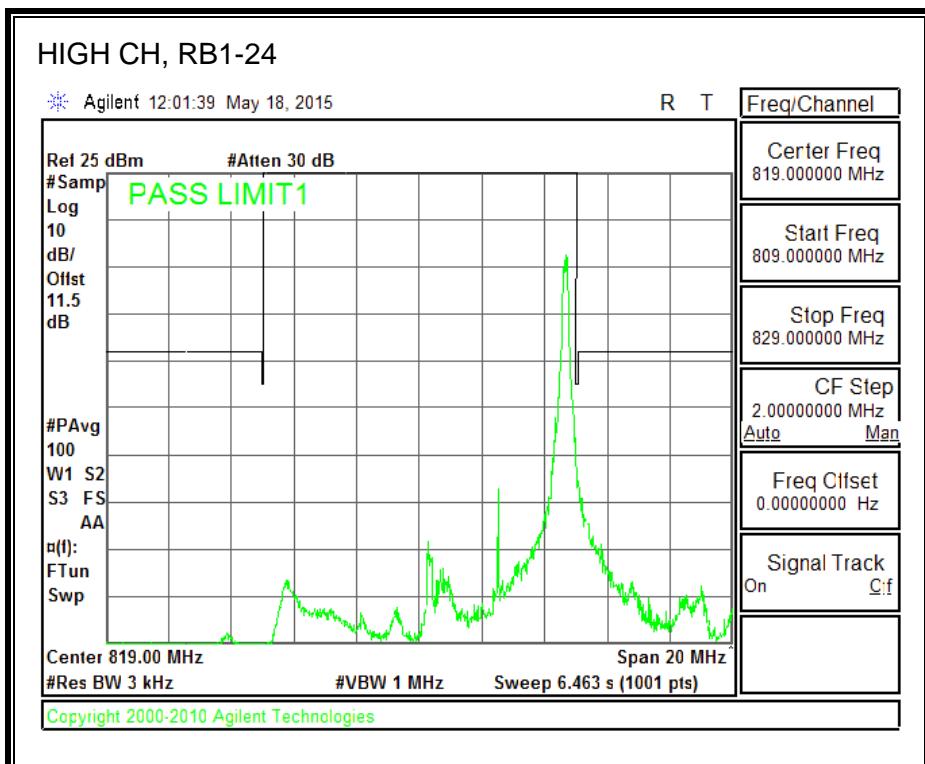
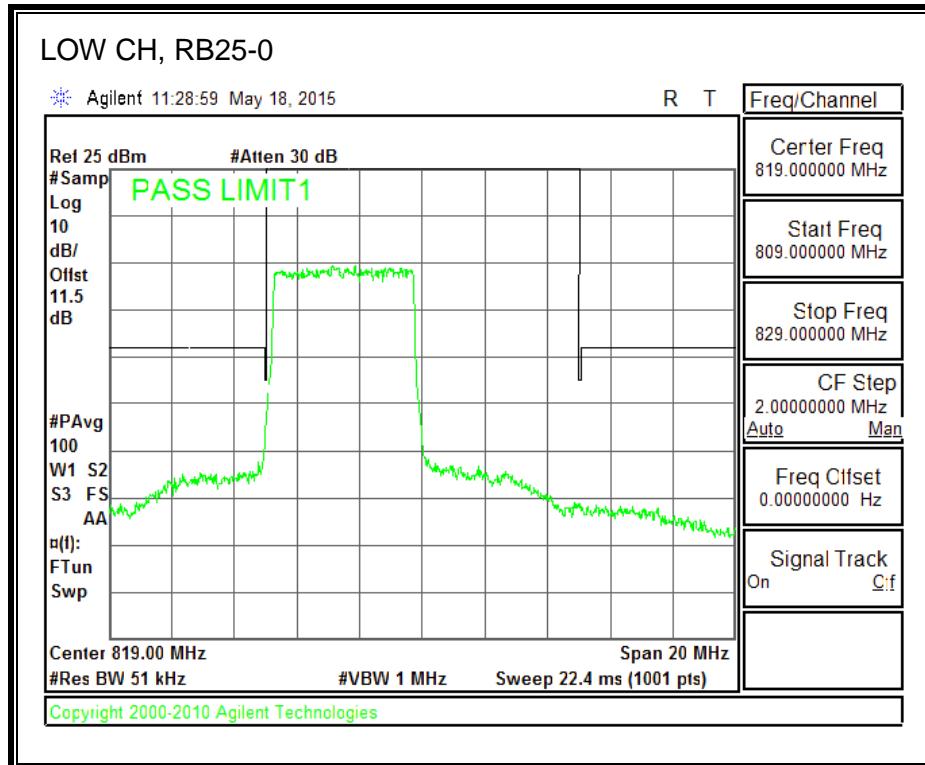


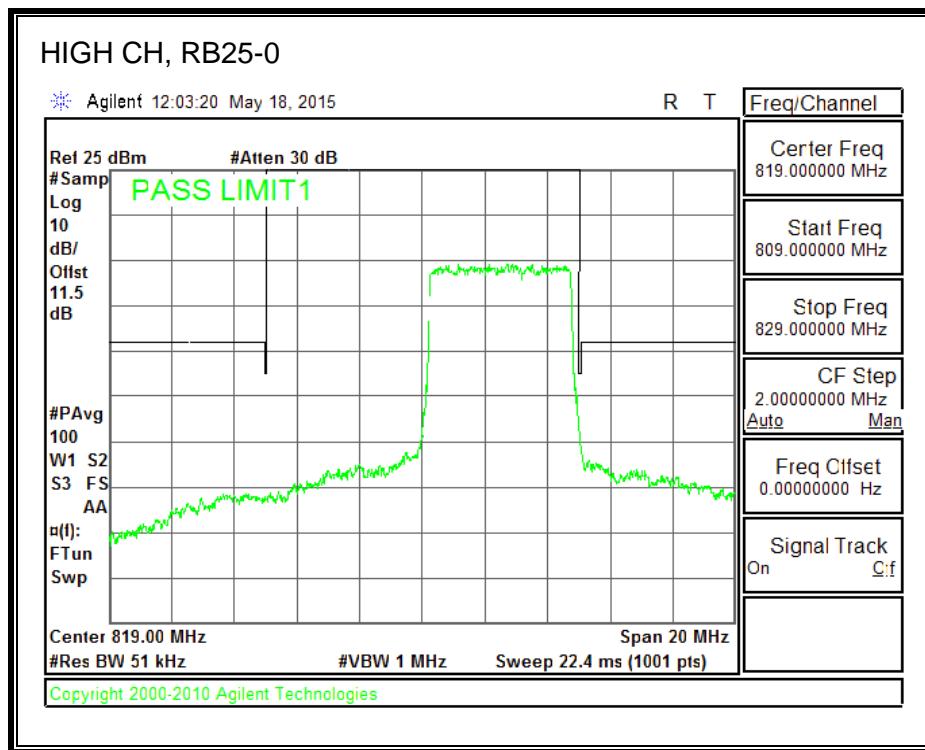
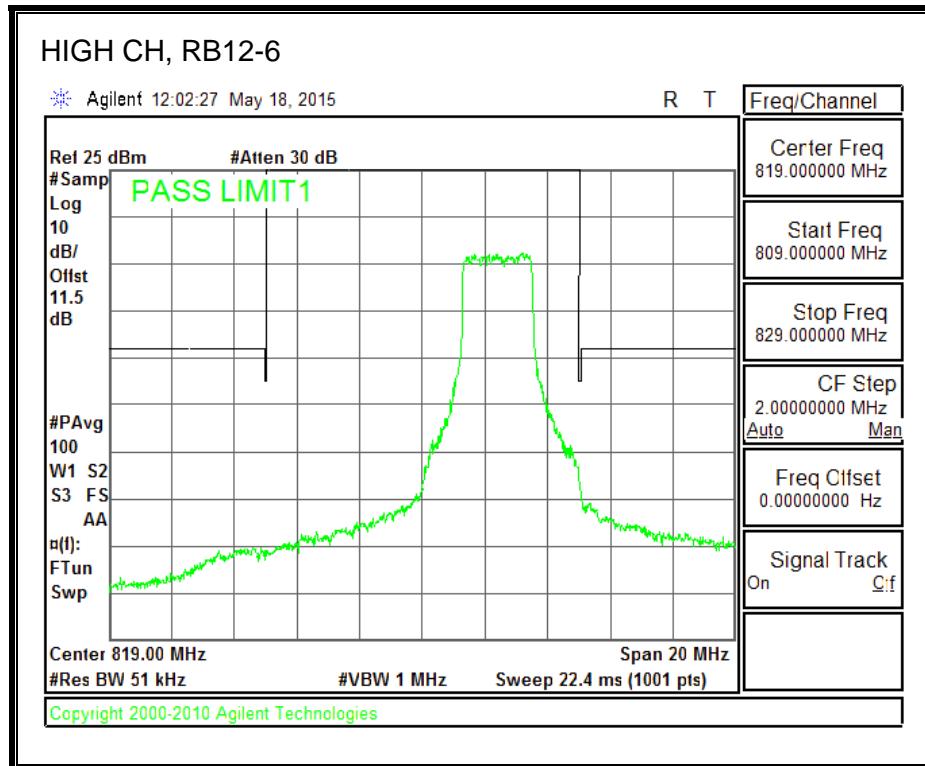
**QPSK, (5.0 MHz BAND WIDTH)**

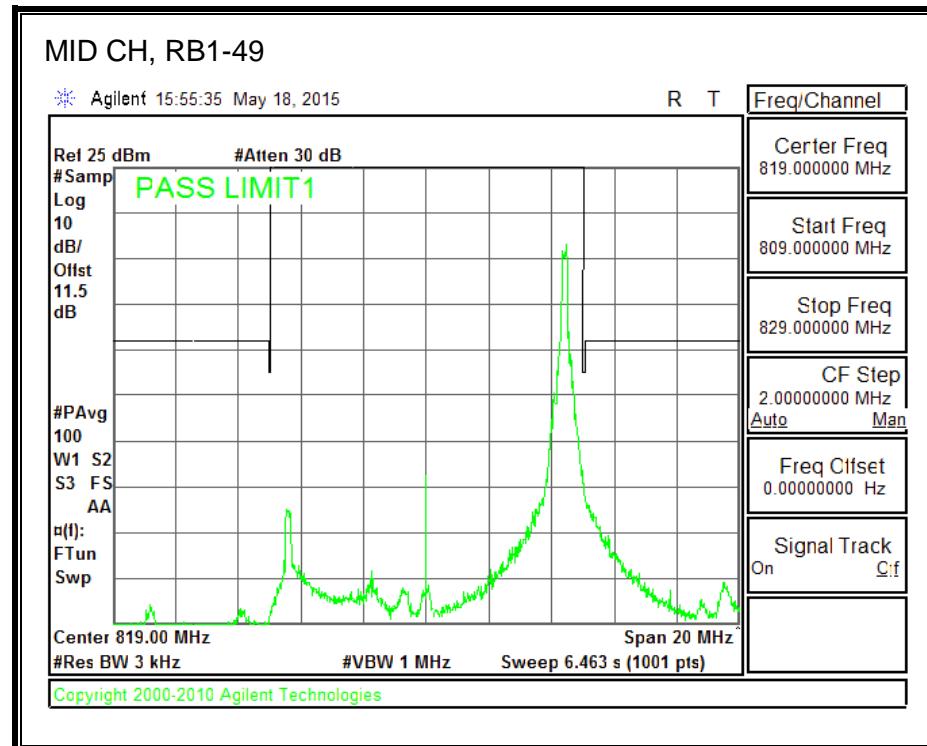
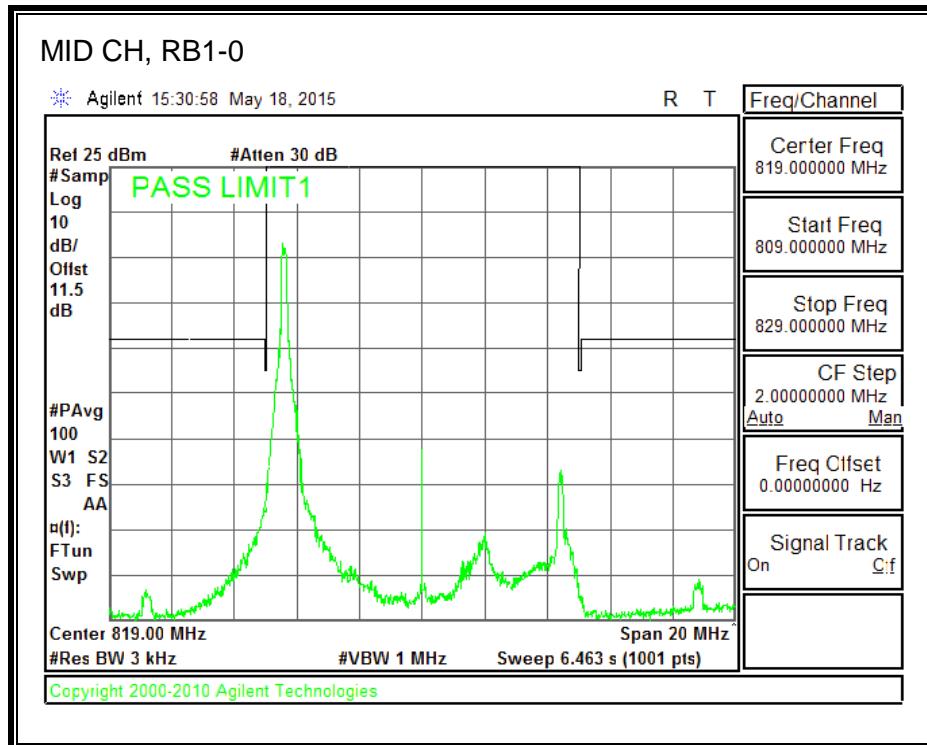


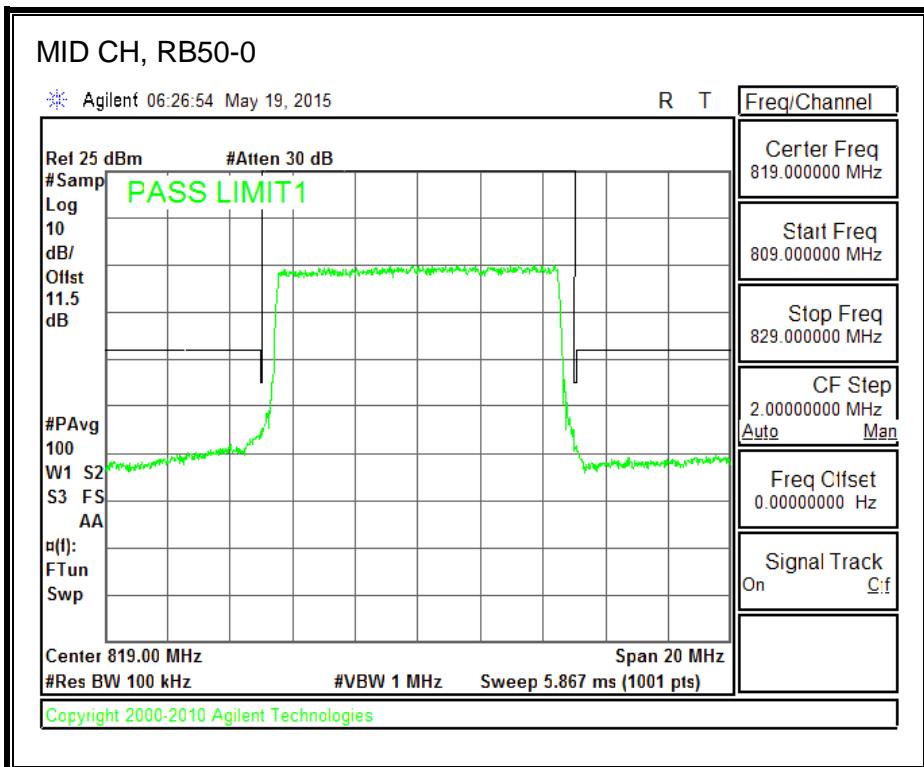
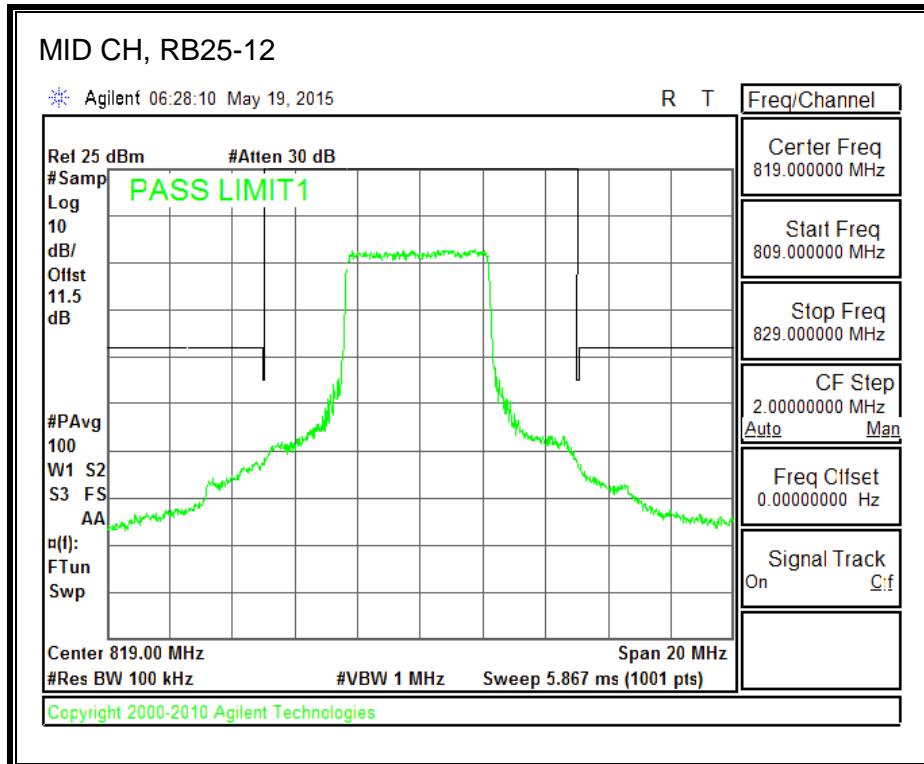


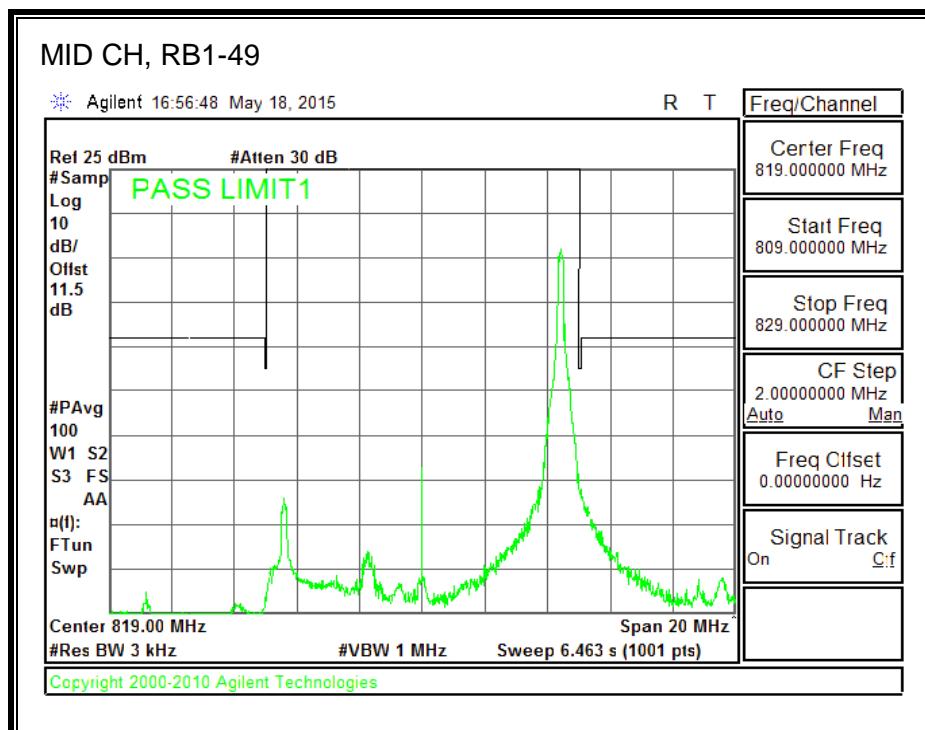
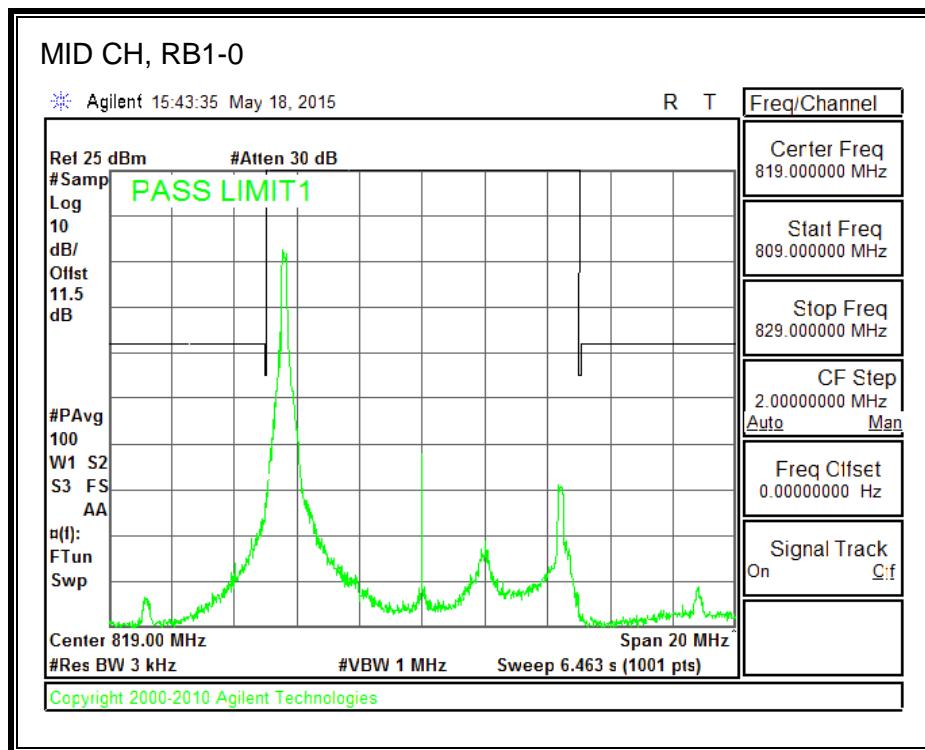
**16QAM, (5.0 MHz BAND WIDTH)**

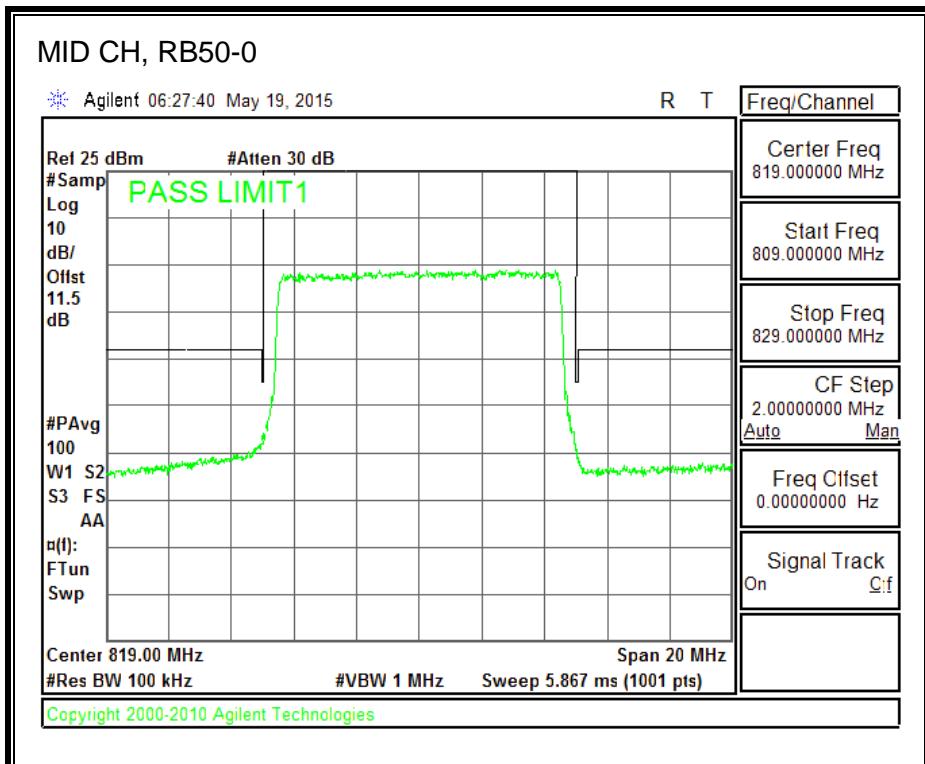
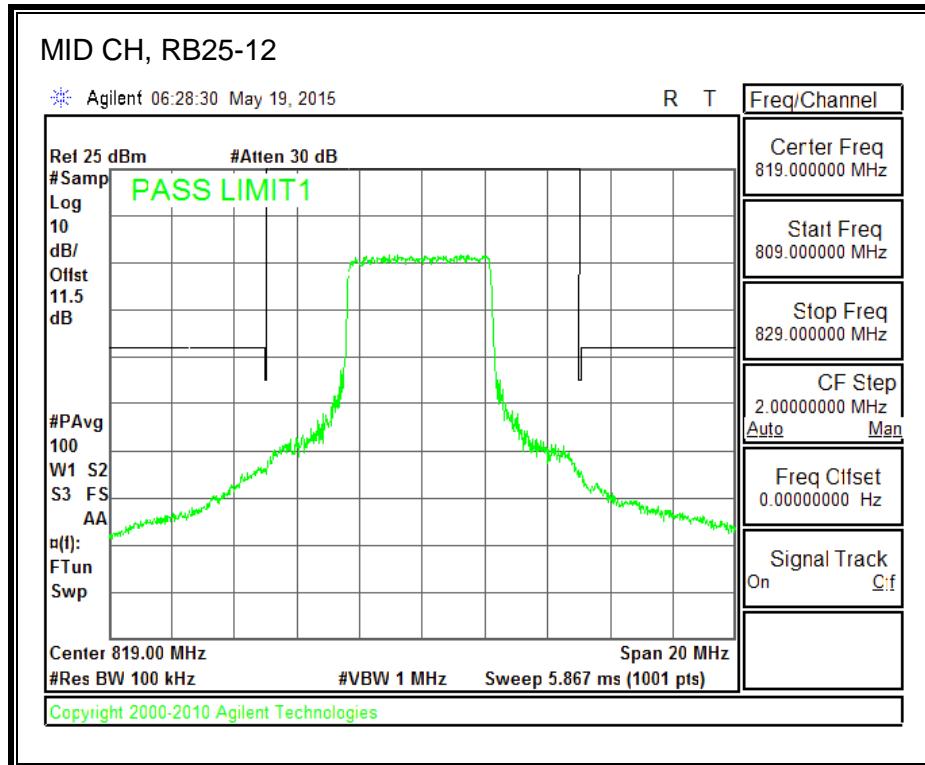




**QPSK, (10.0 MHz BAND WIDTH)**

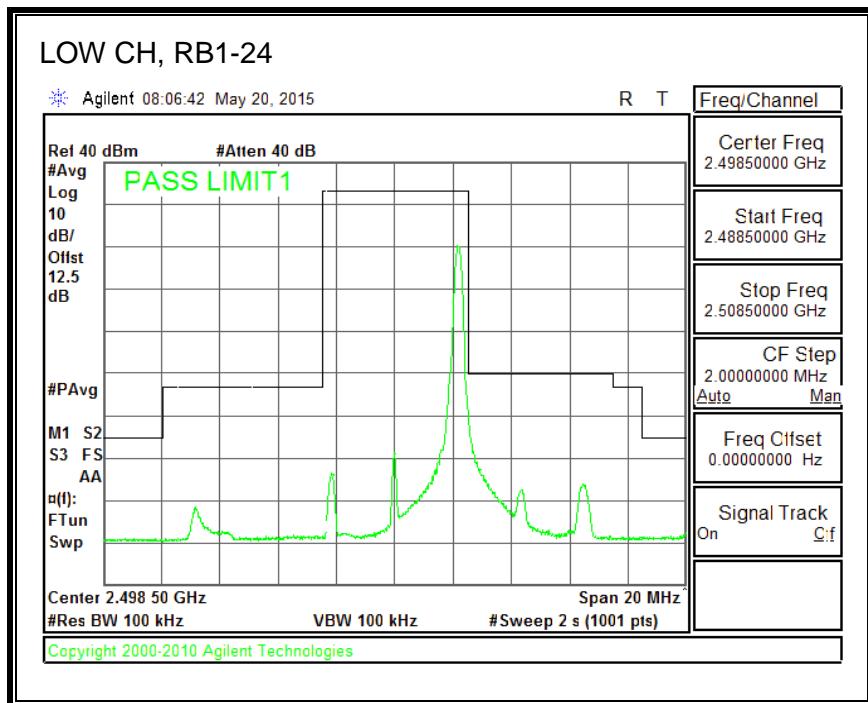
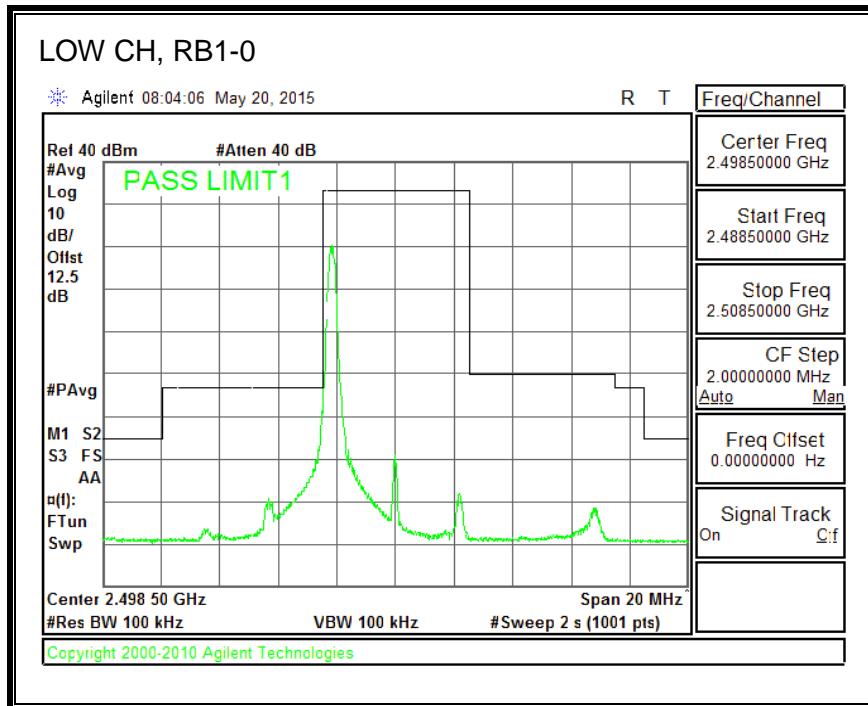


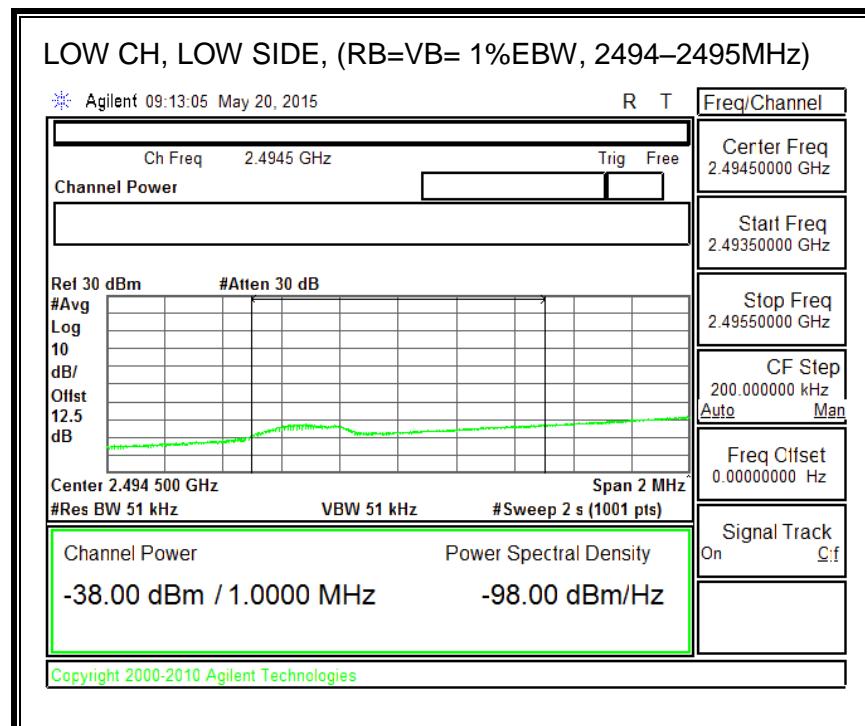
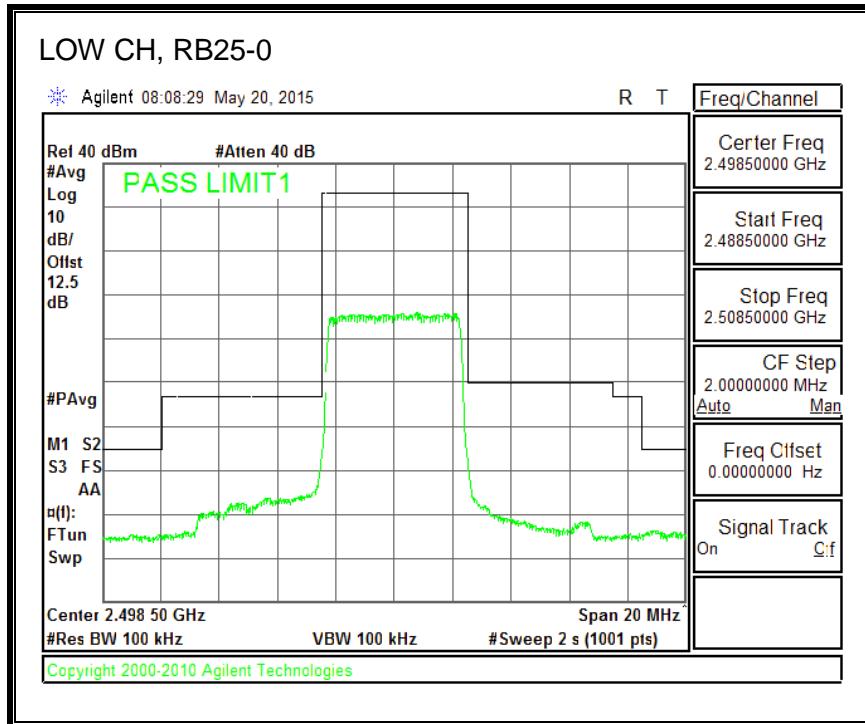
**16QAM, (10.0 MHz BAND WIDTH)**

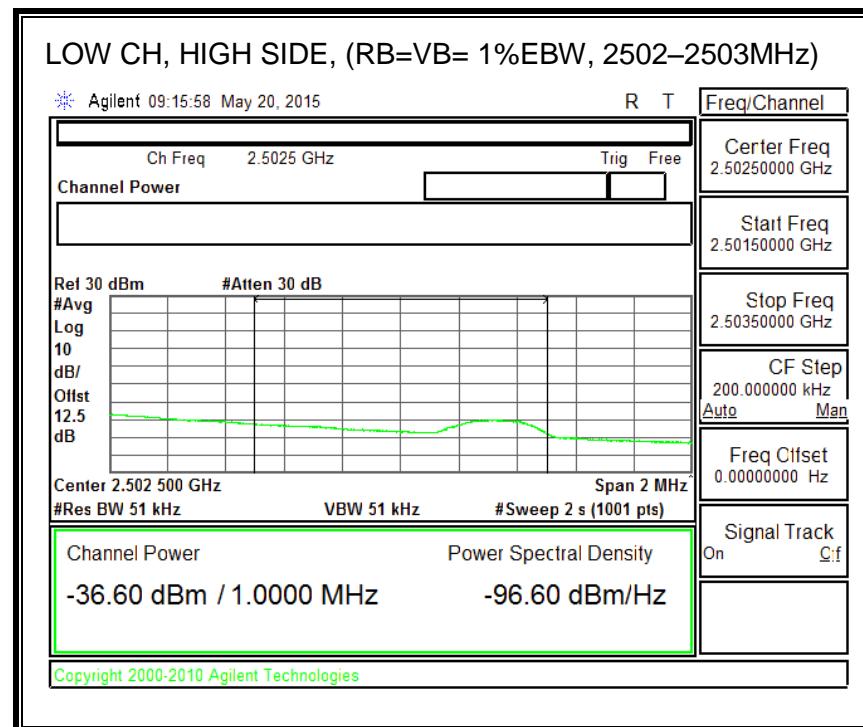
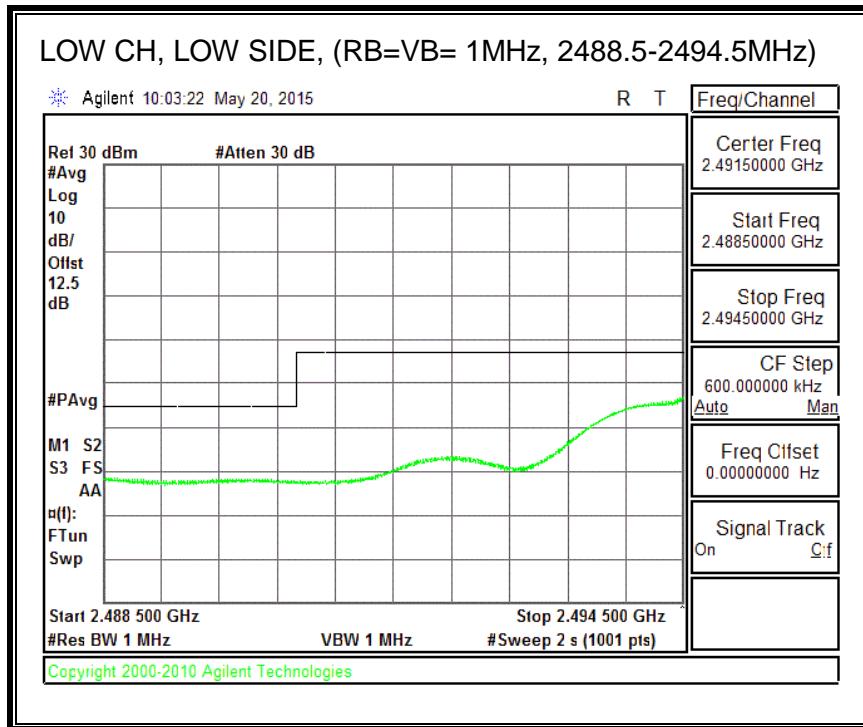


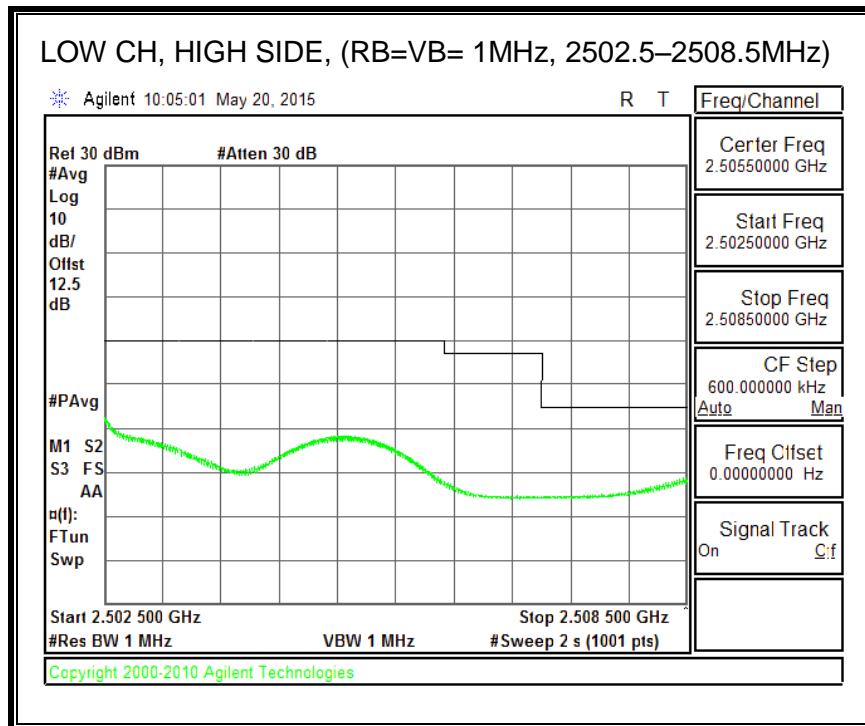
### 8.4.10. LTE BAND 41 EMISSION MASK

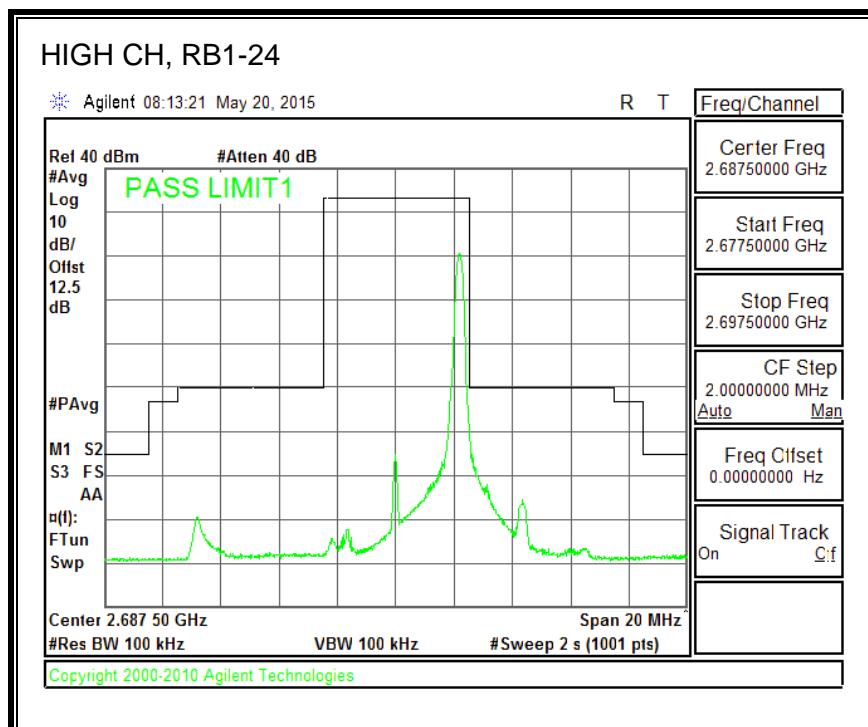
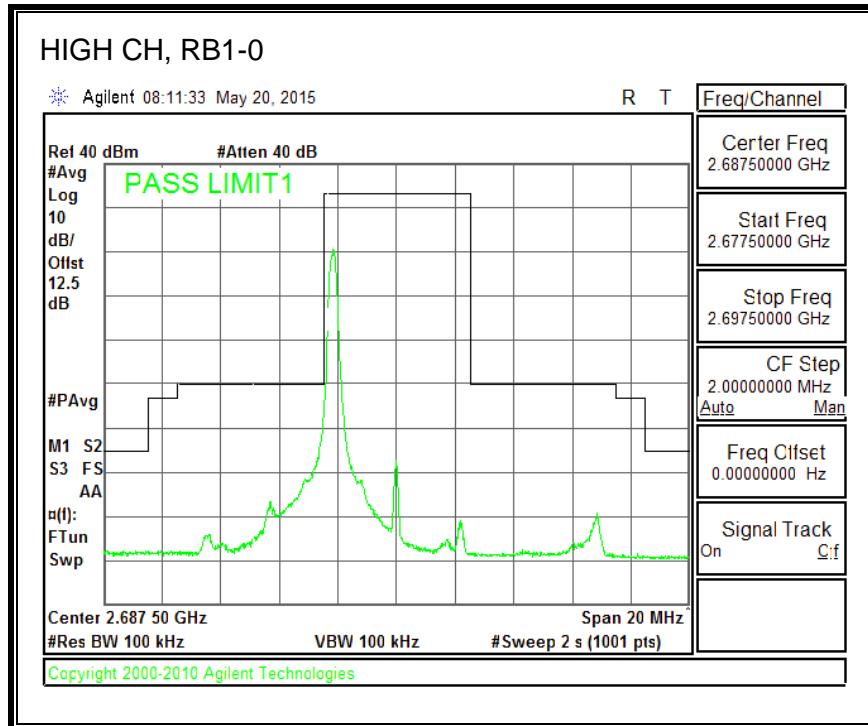
#### QPSK, (5.0 MHz BAND WIDTH)

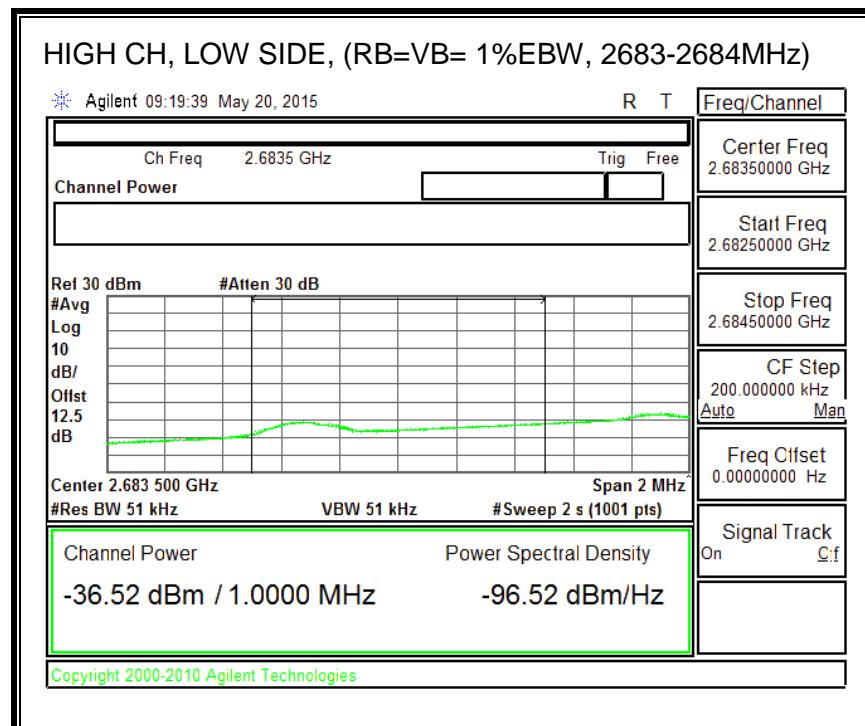
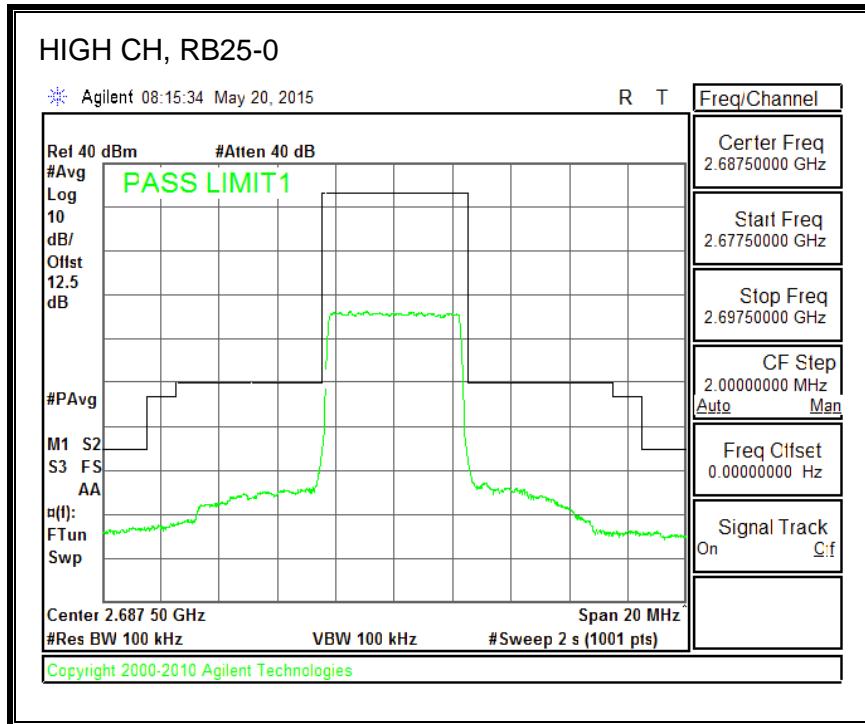


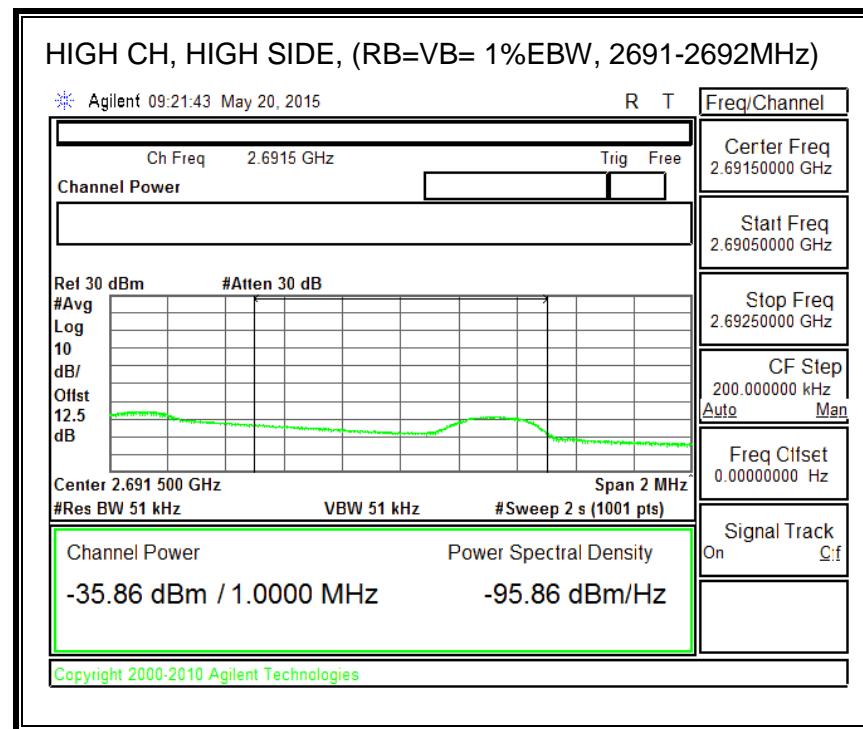
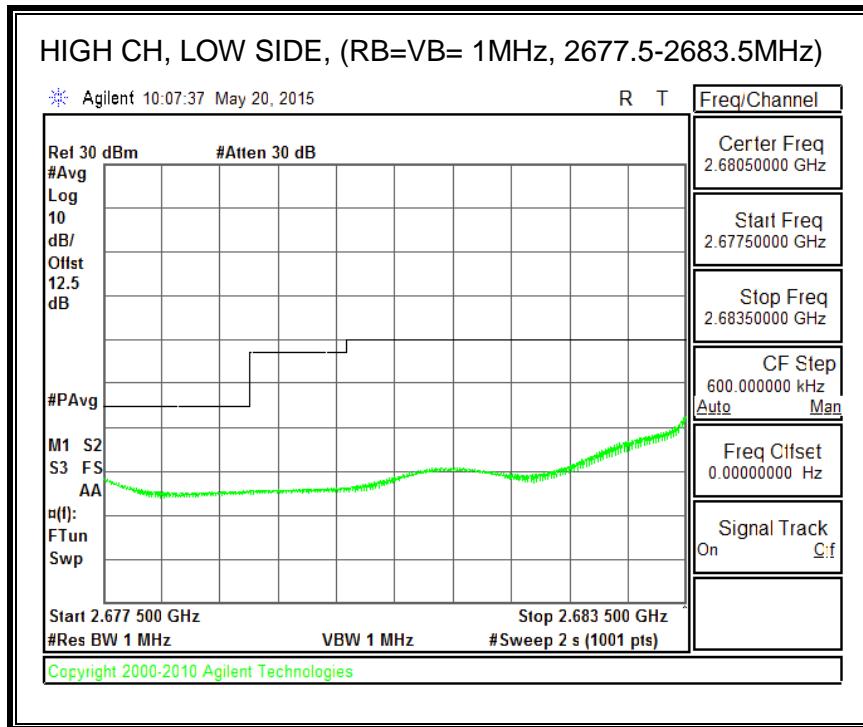


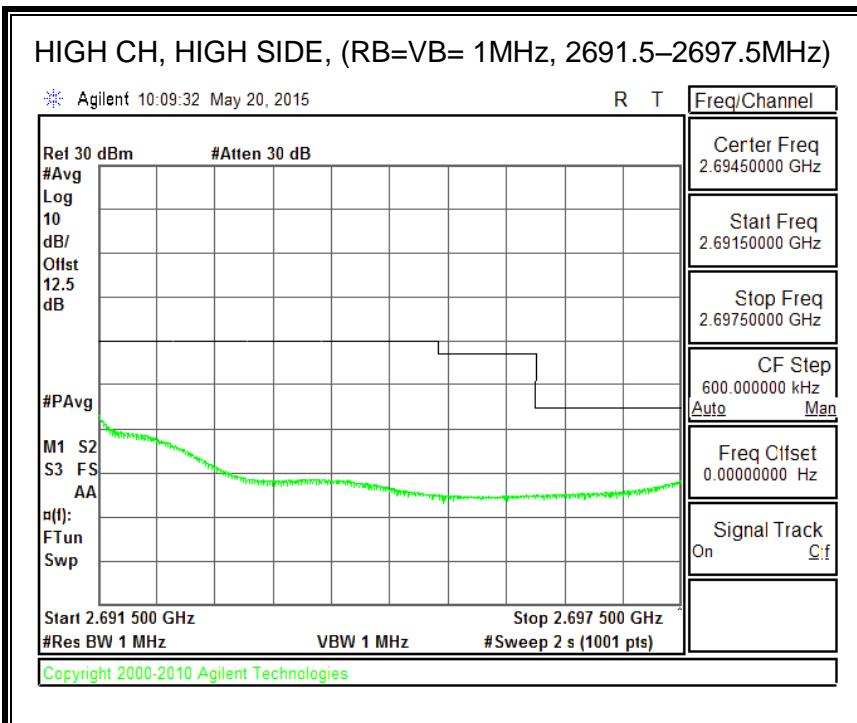


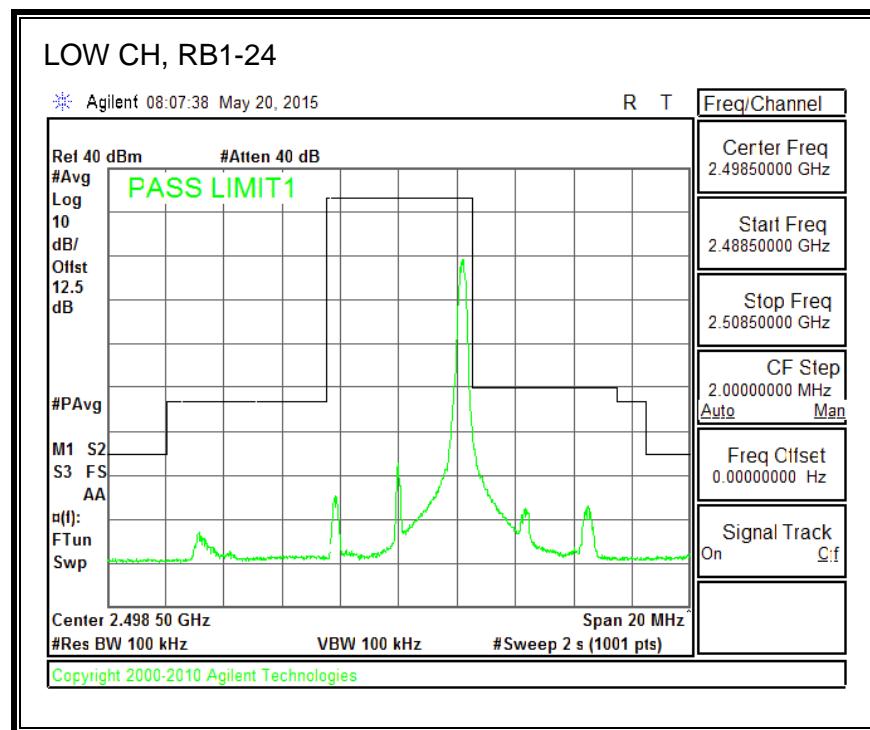
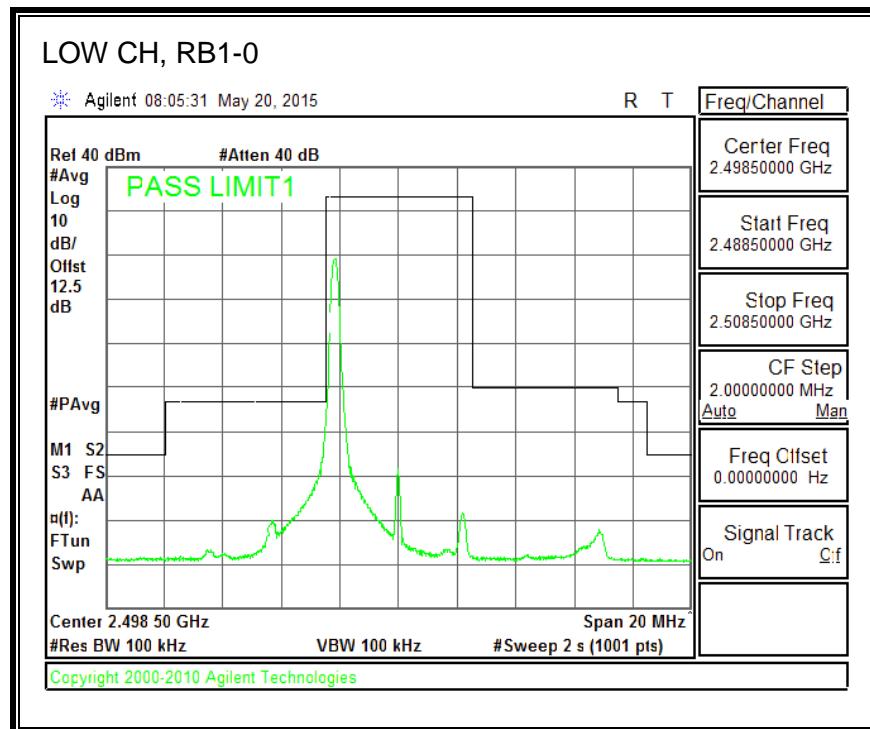


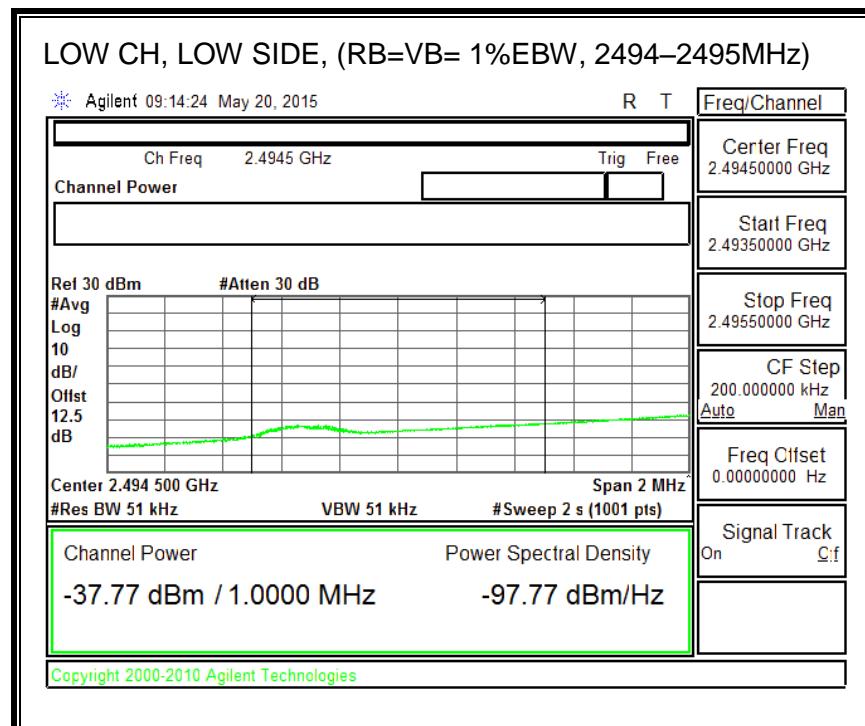
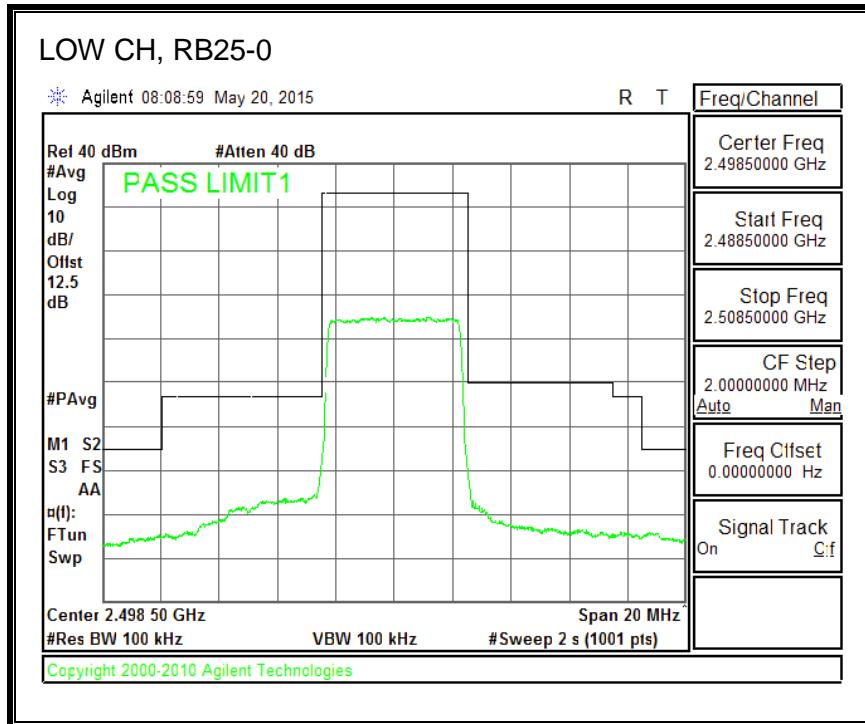


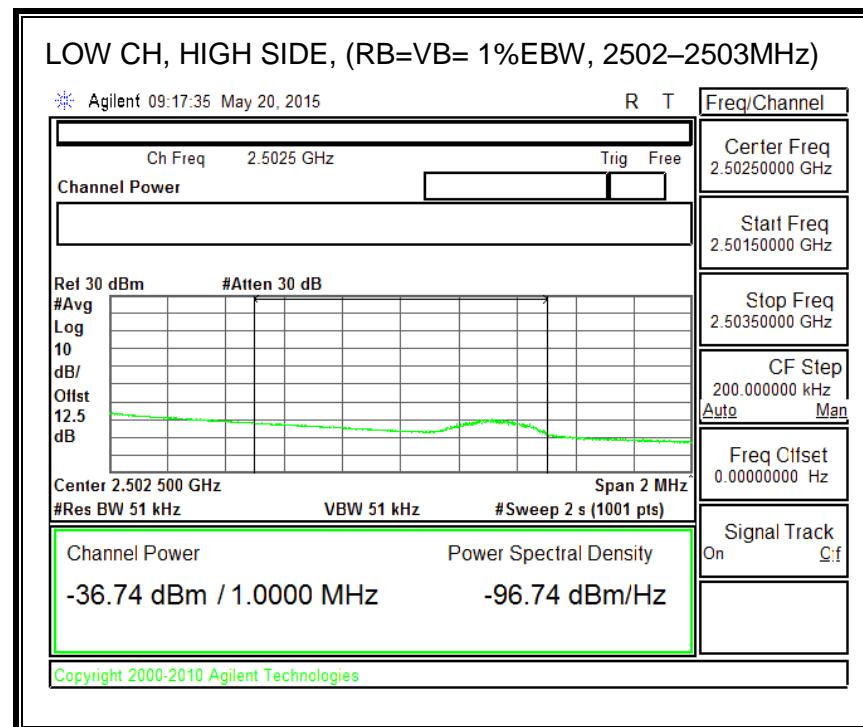
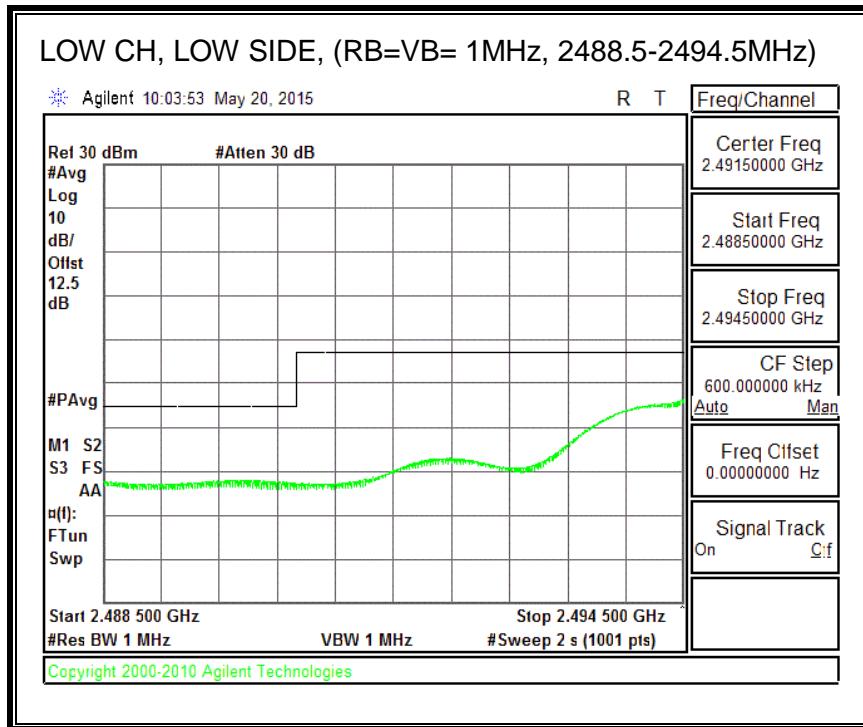


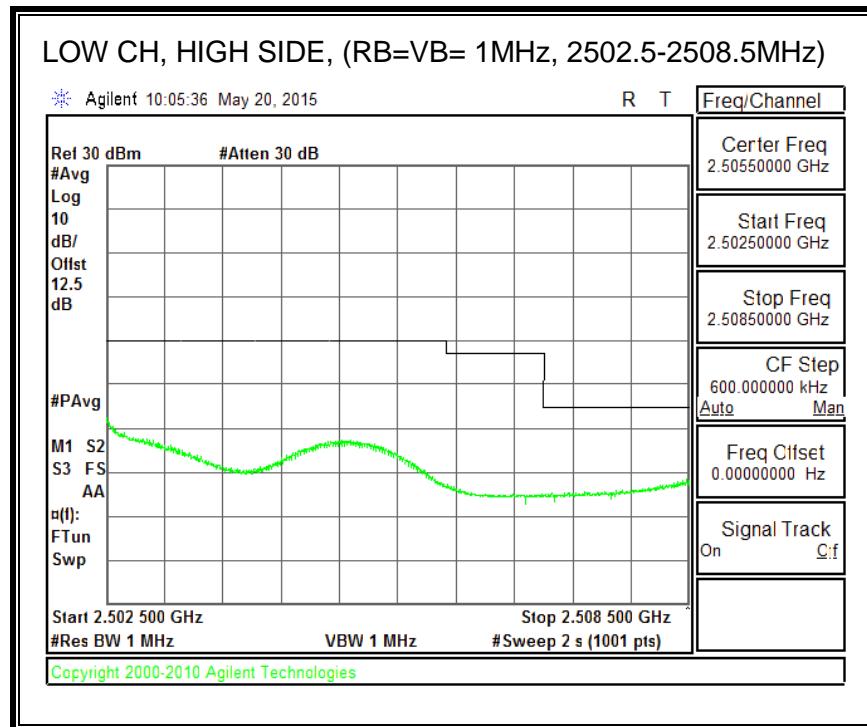


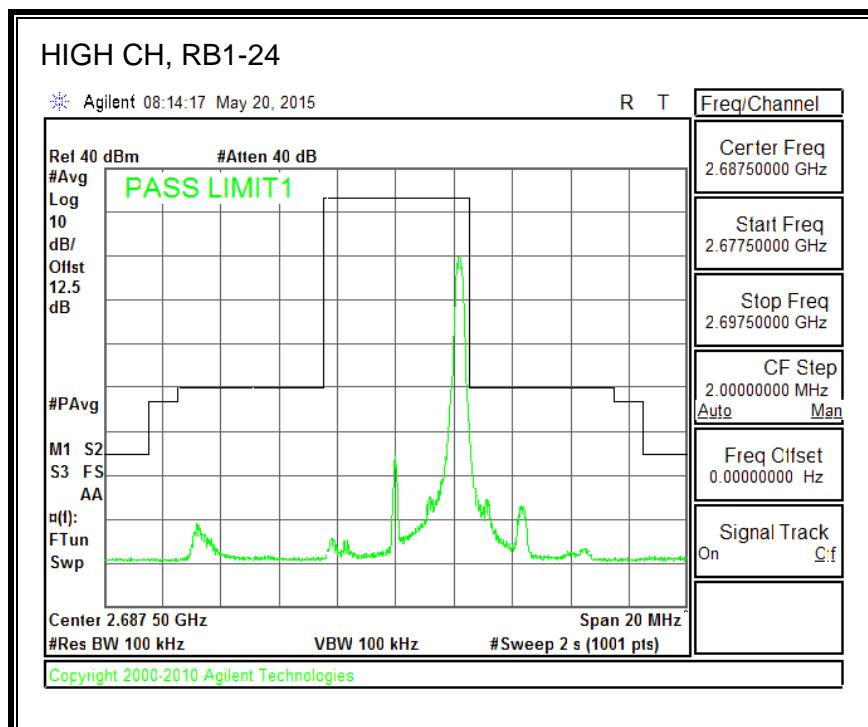
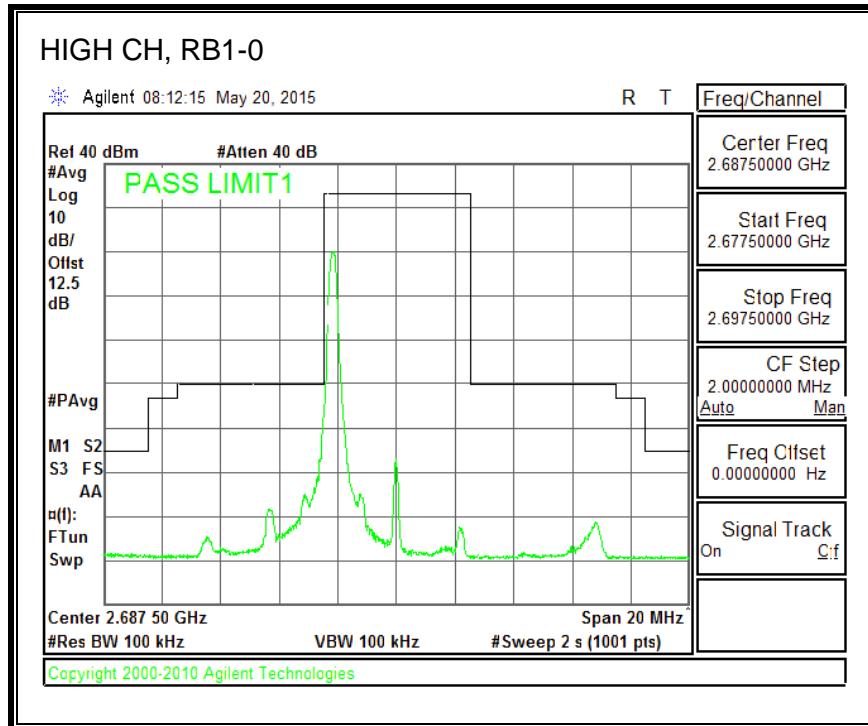


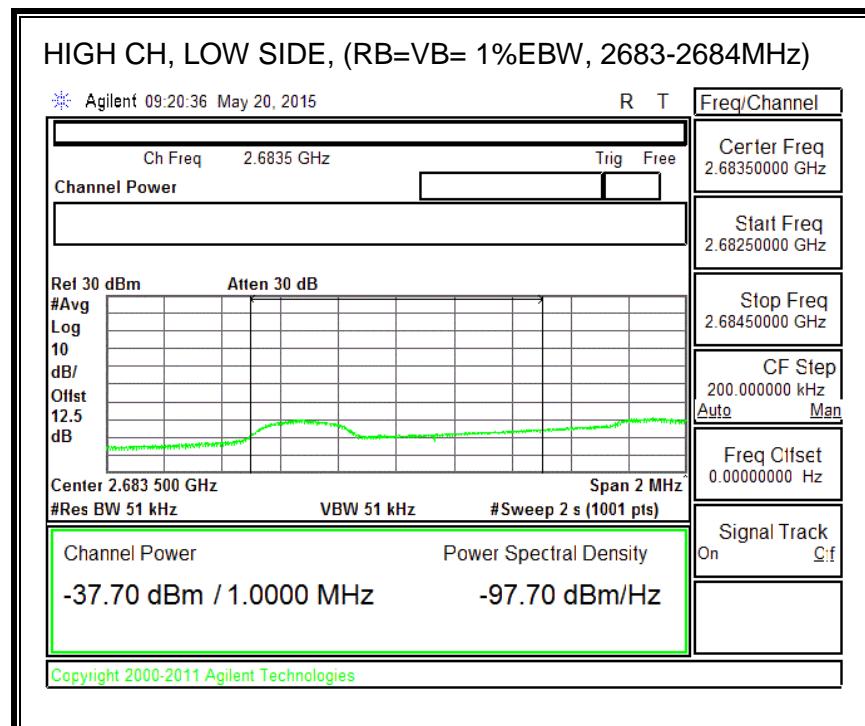
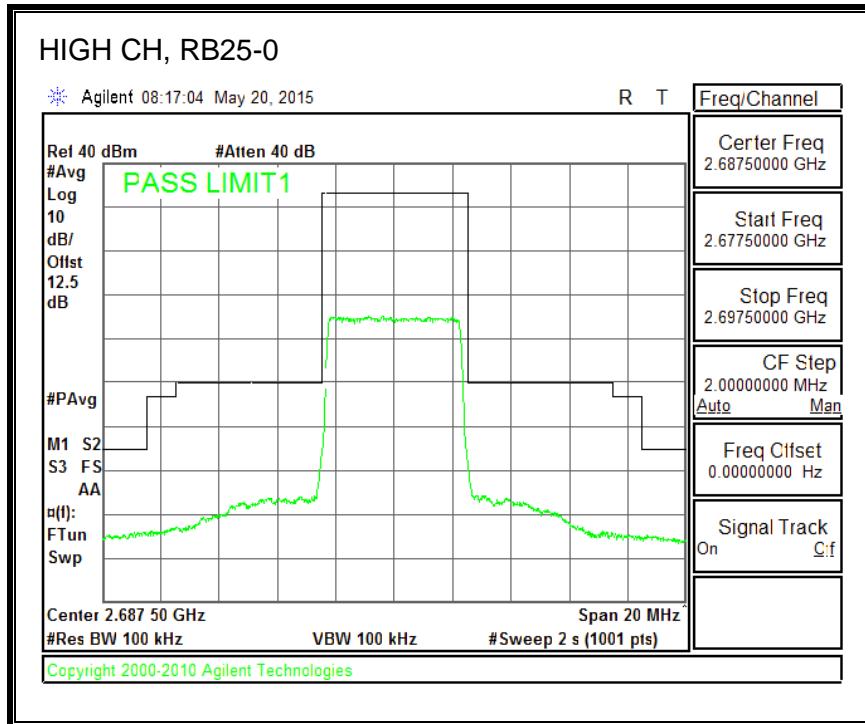
**16QAM, (5.0 MHz BAND WIDTH)**

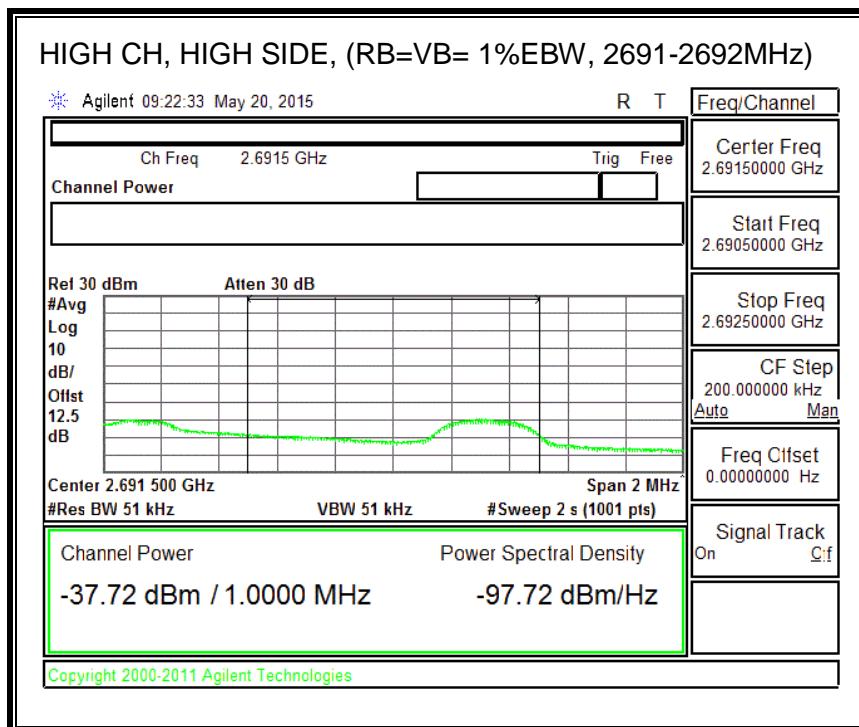
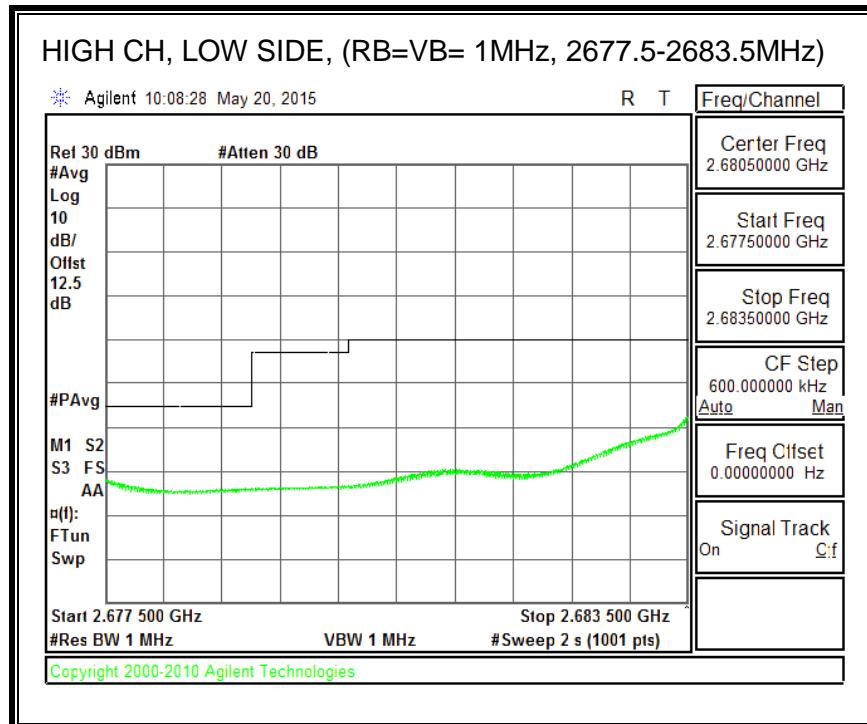


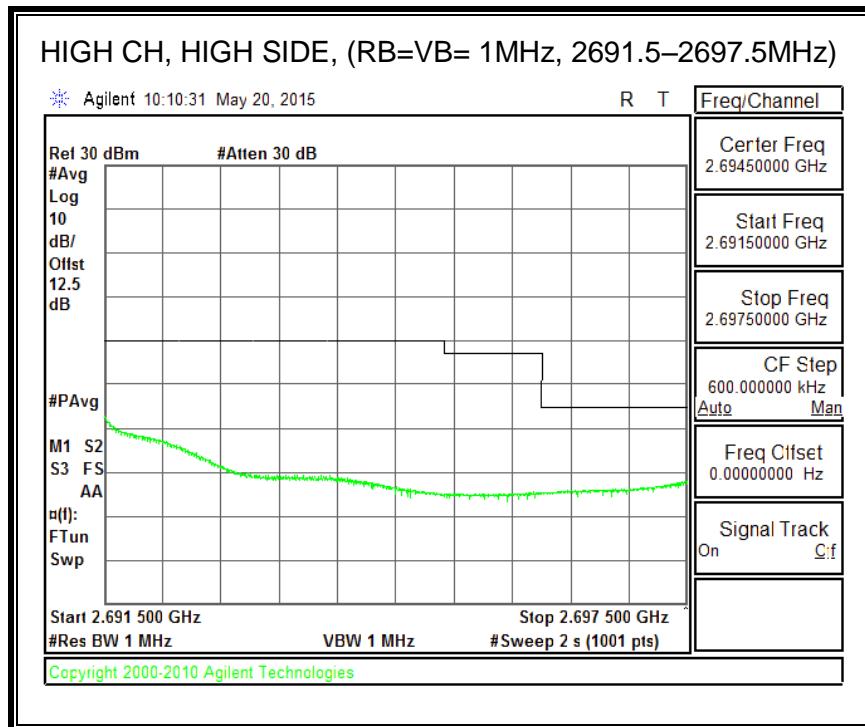


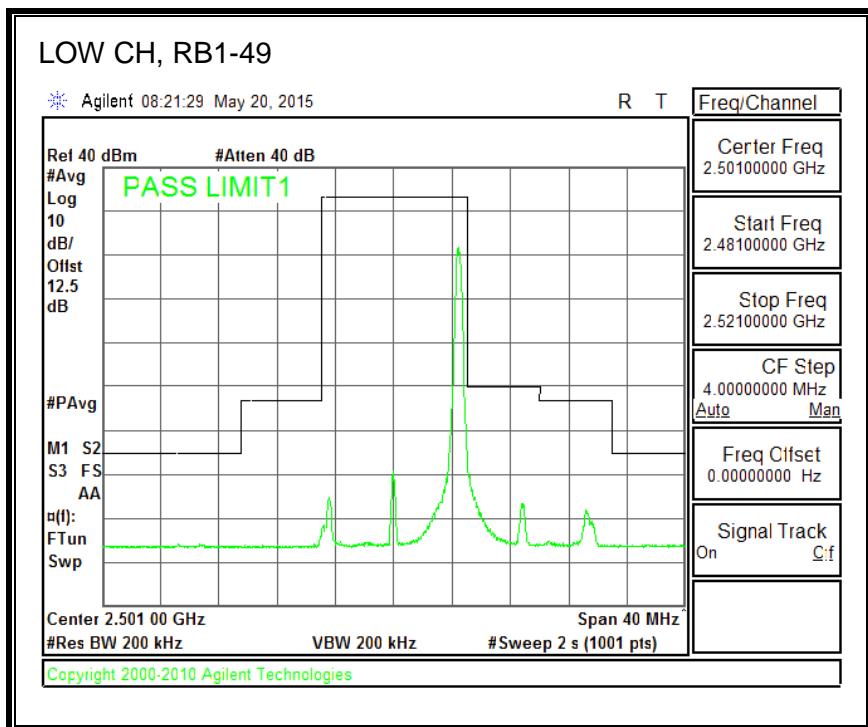
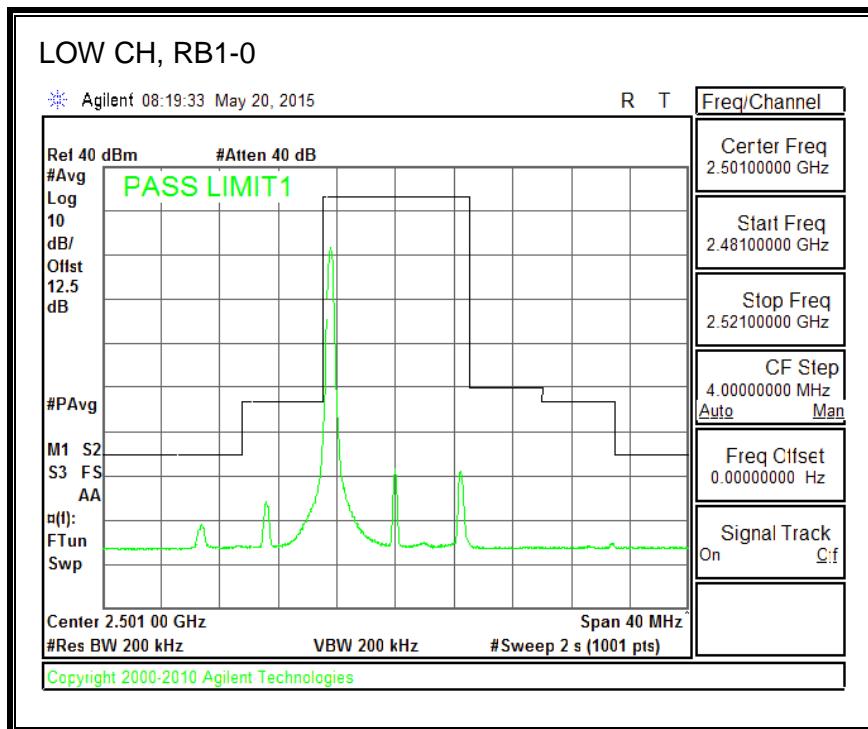


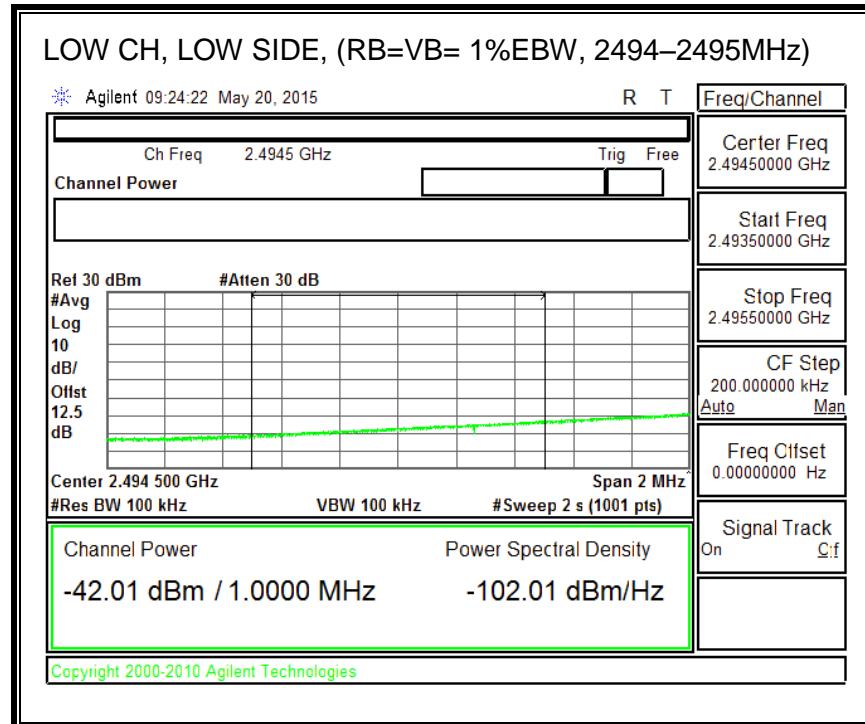
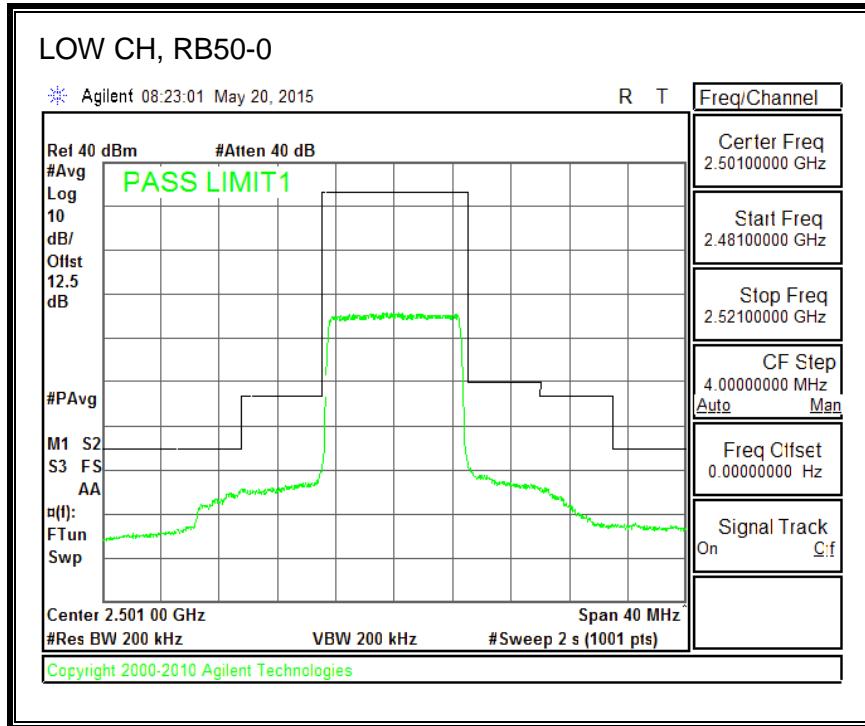


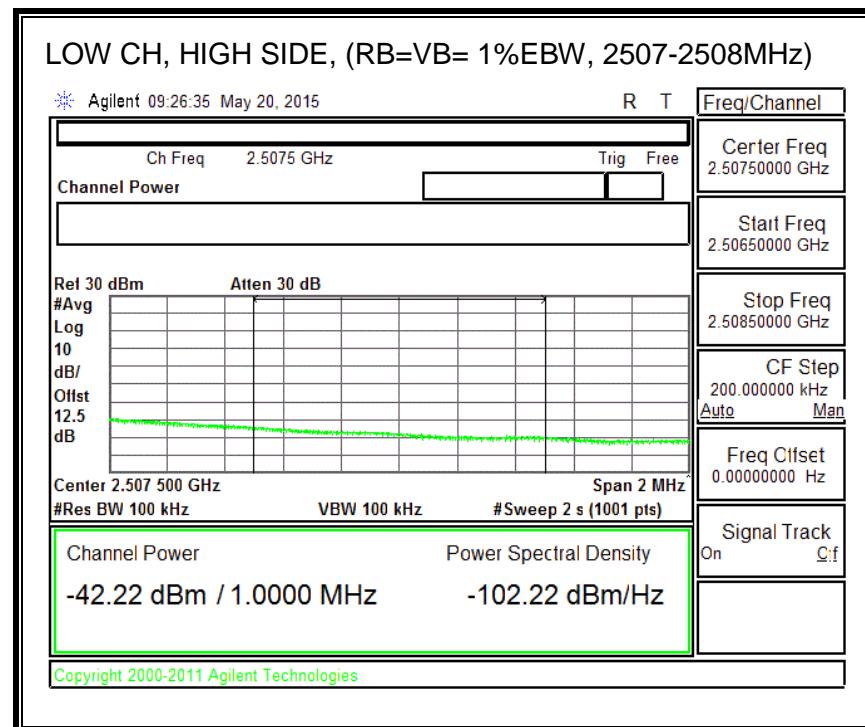
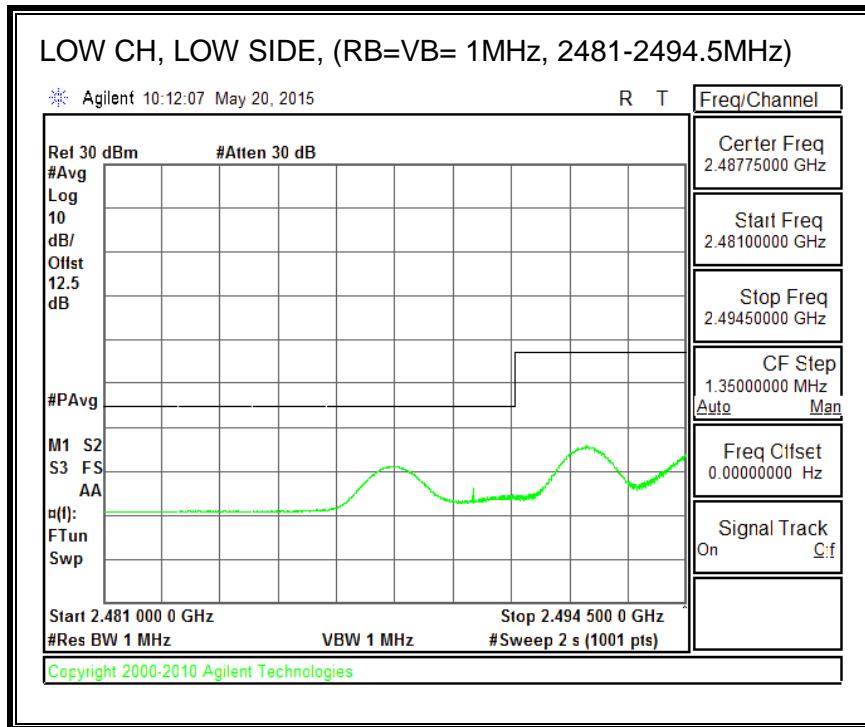


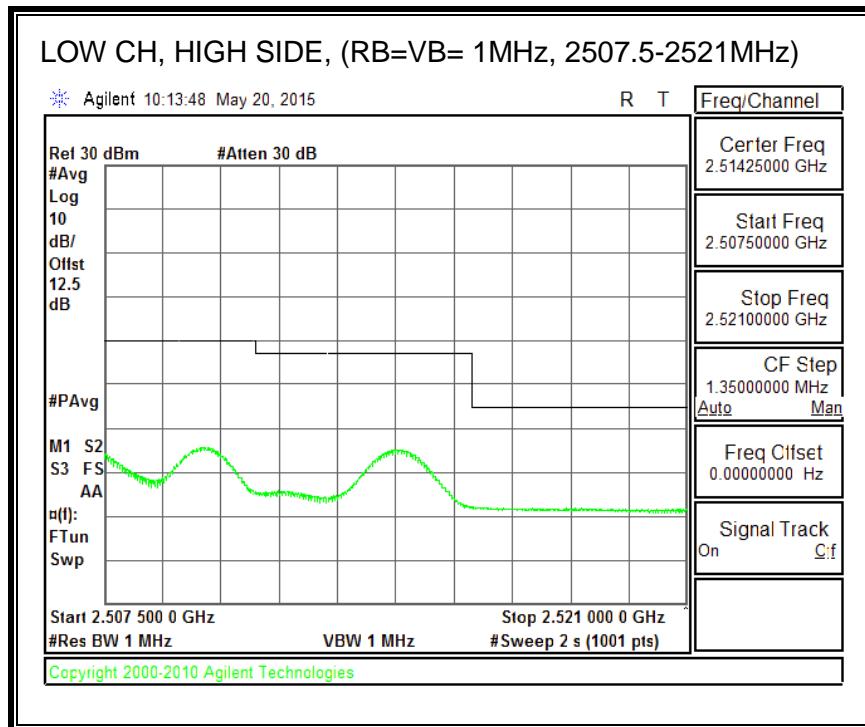


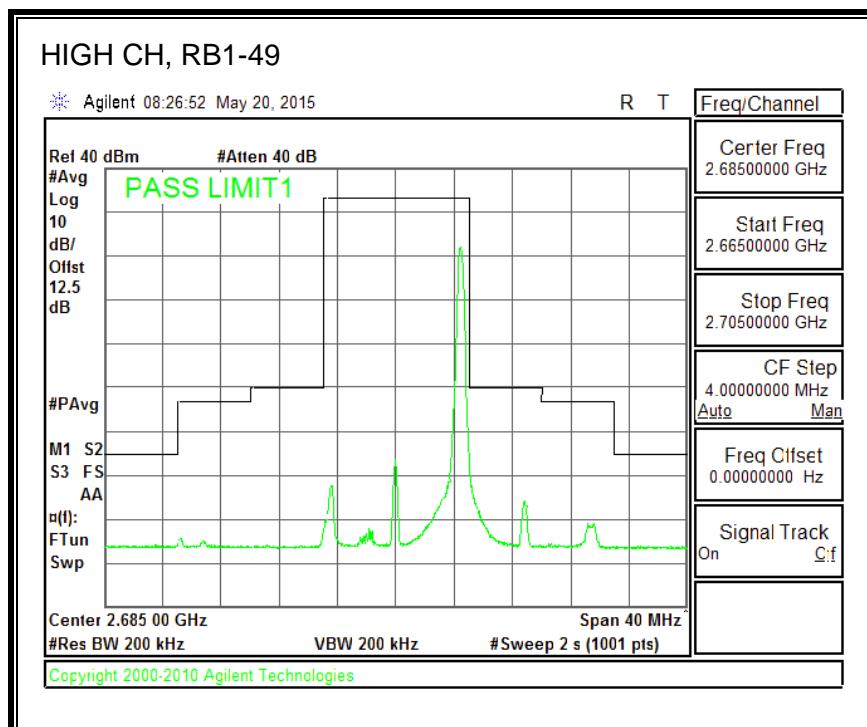
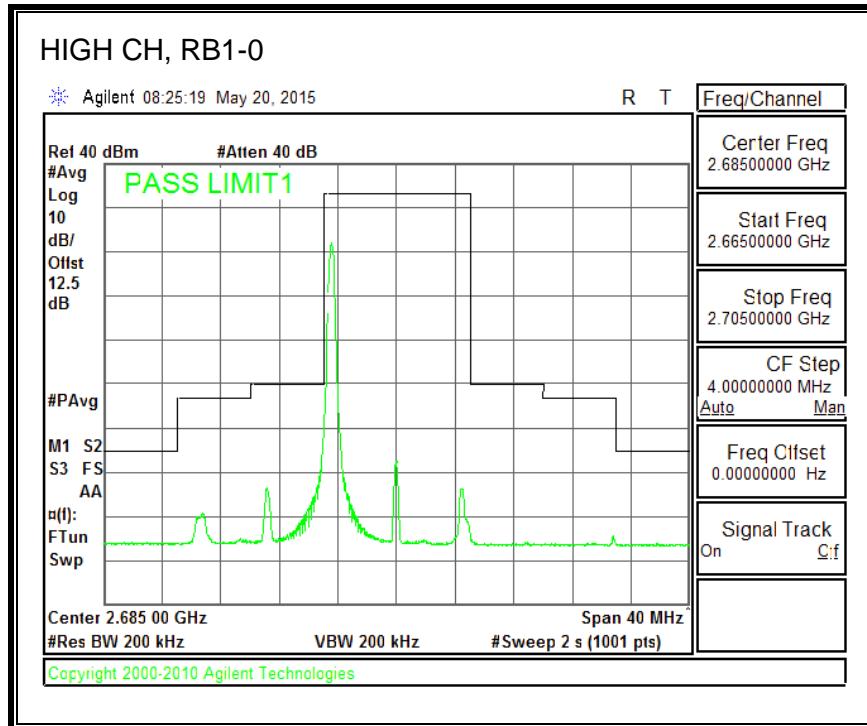


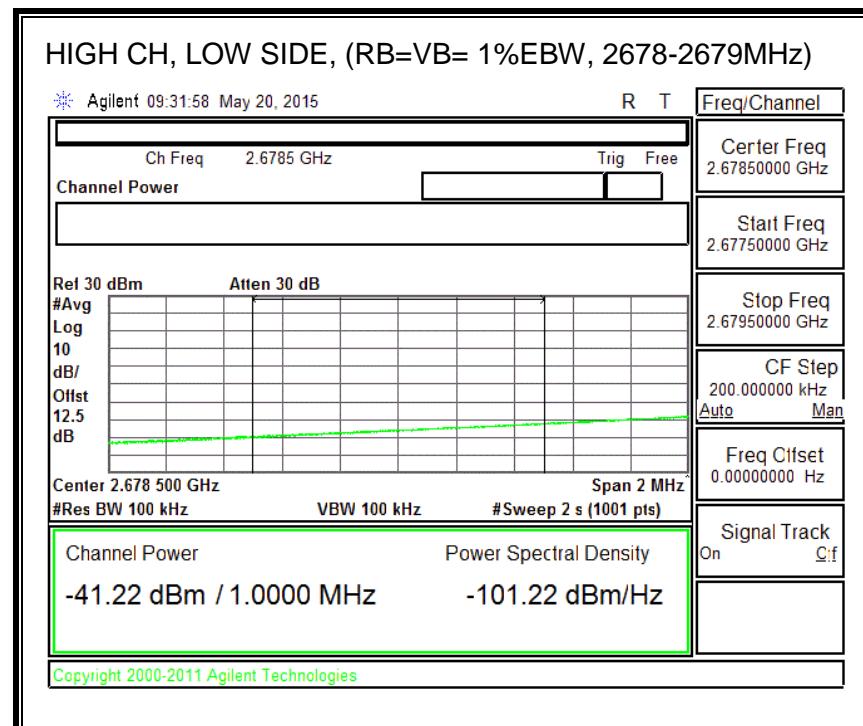
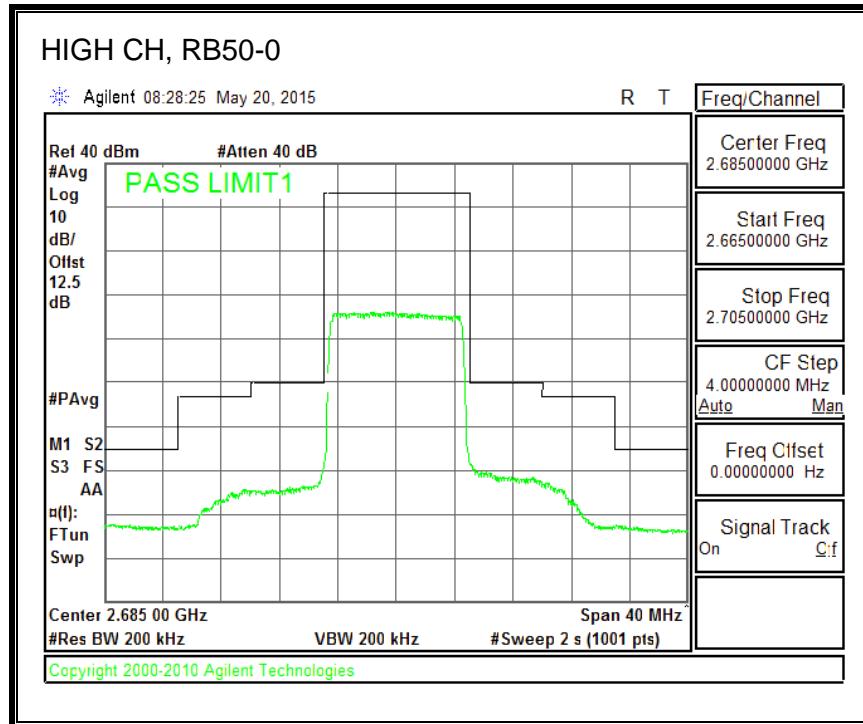
**QPSK, (10.0 MHz BAND WIDTH)**

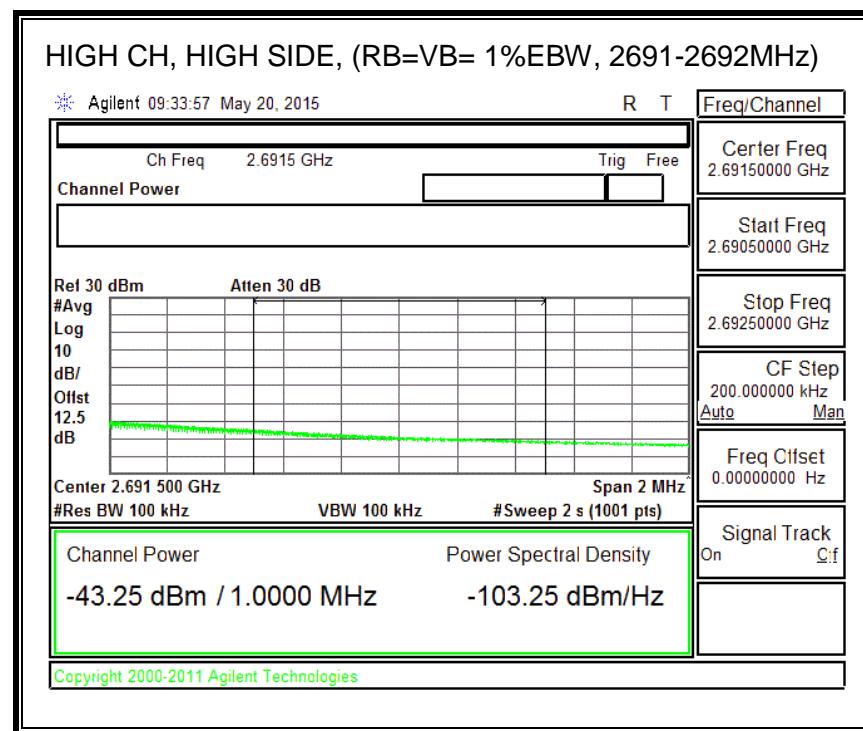
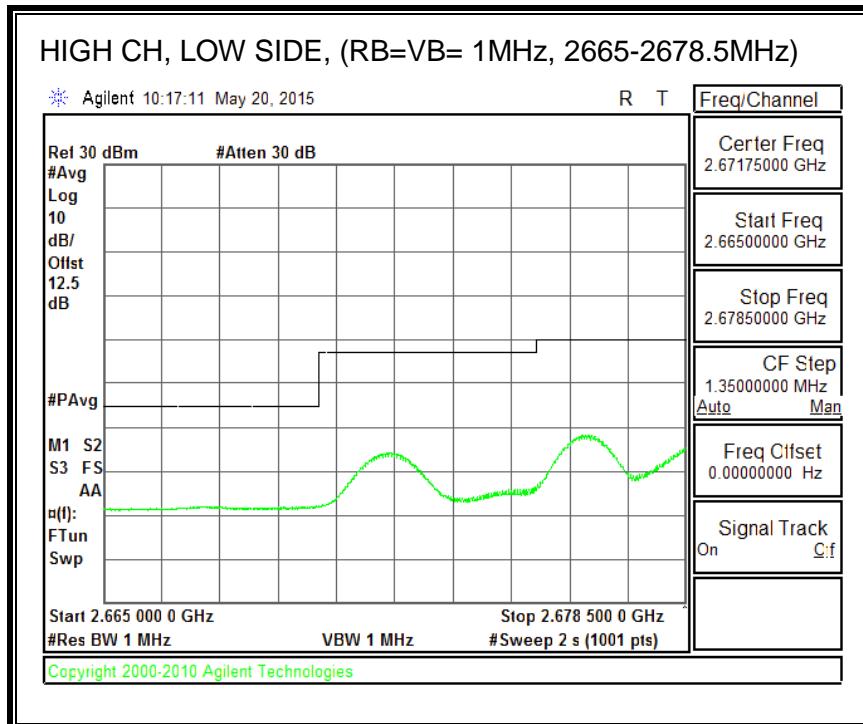


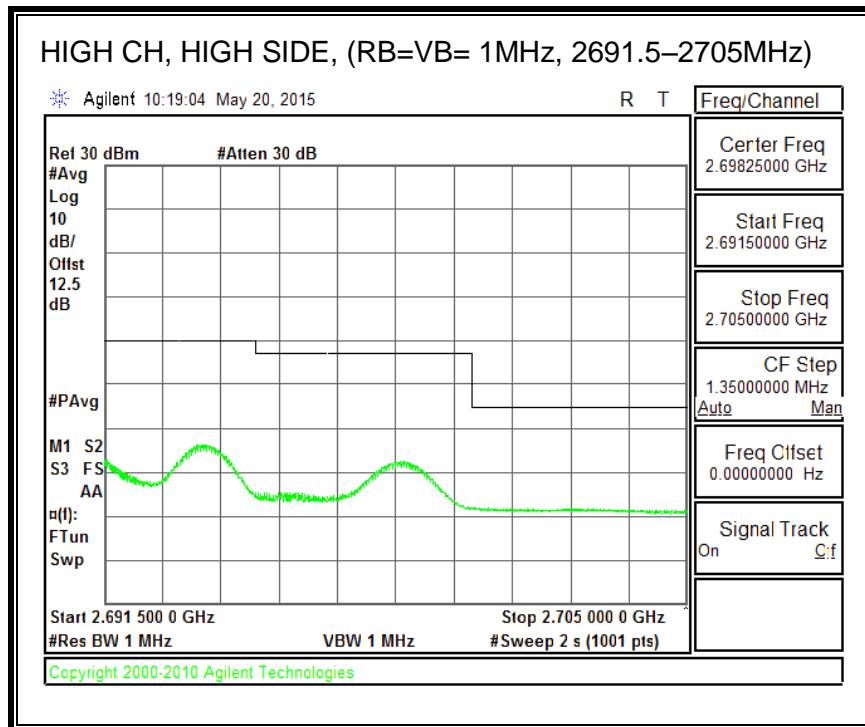


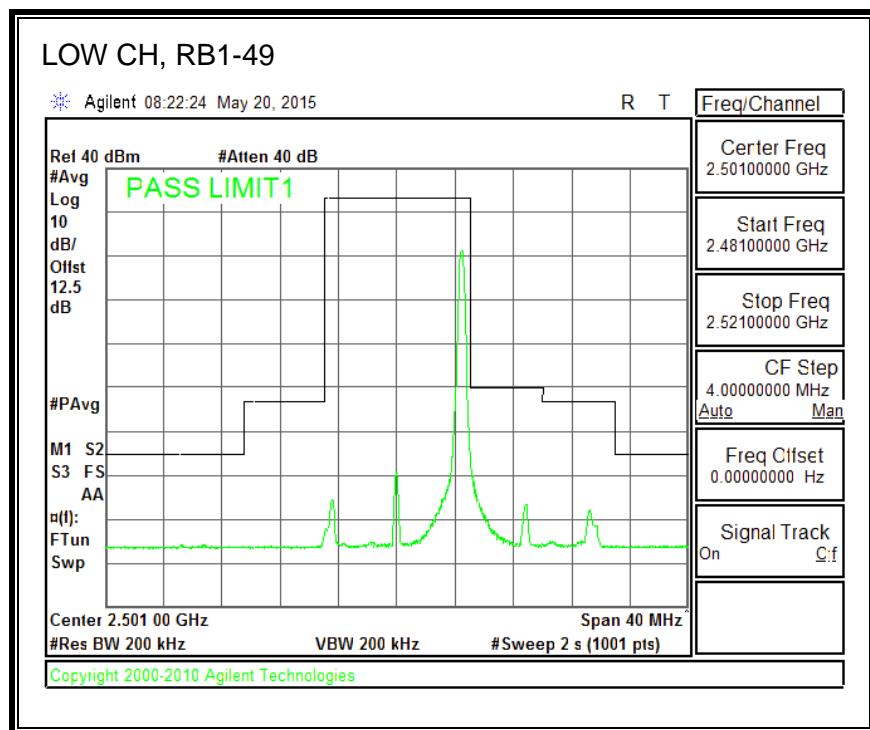
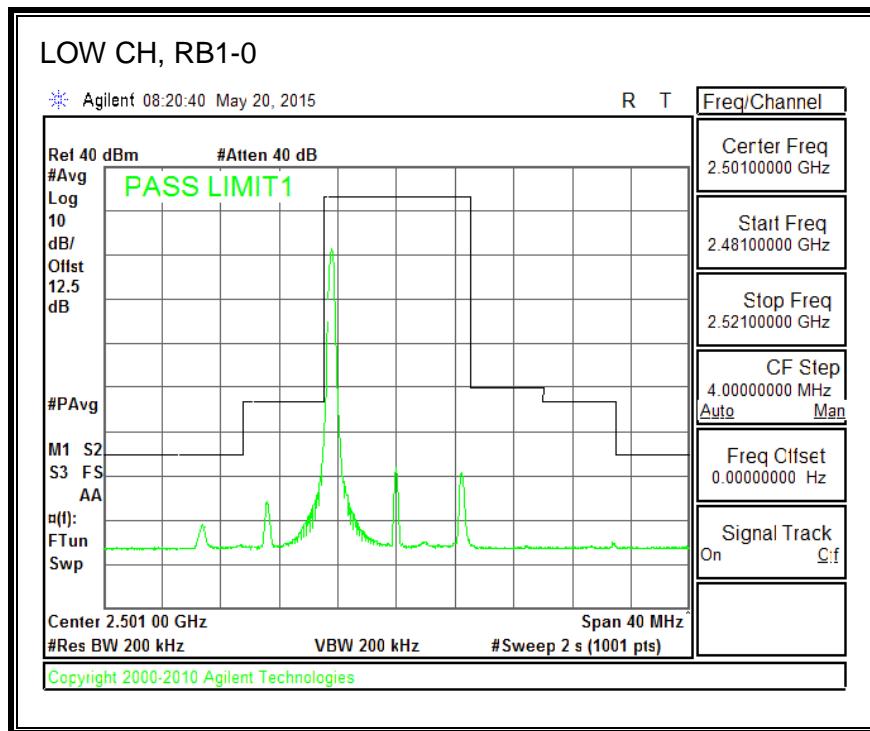


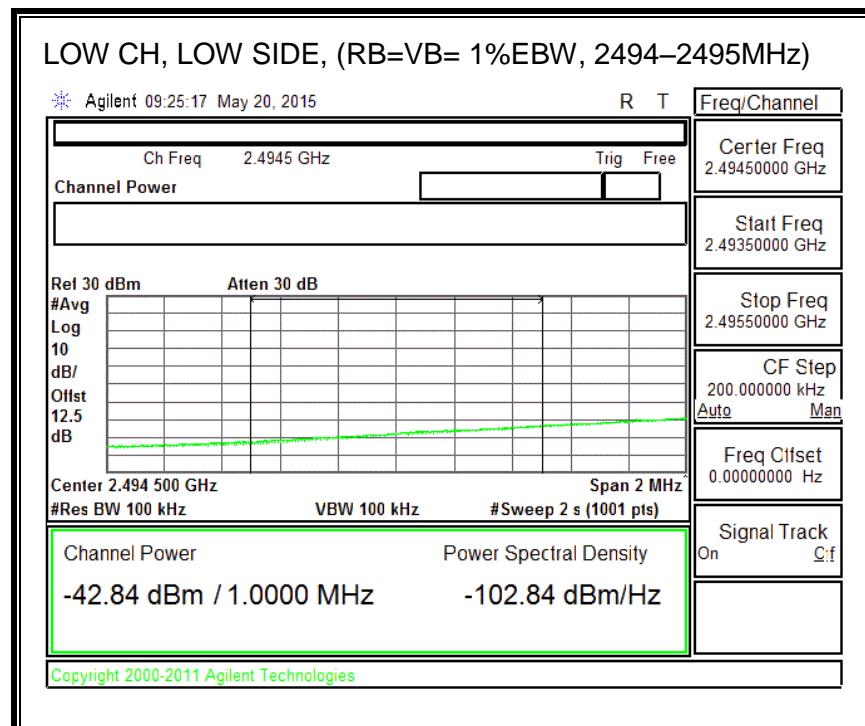
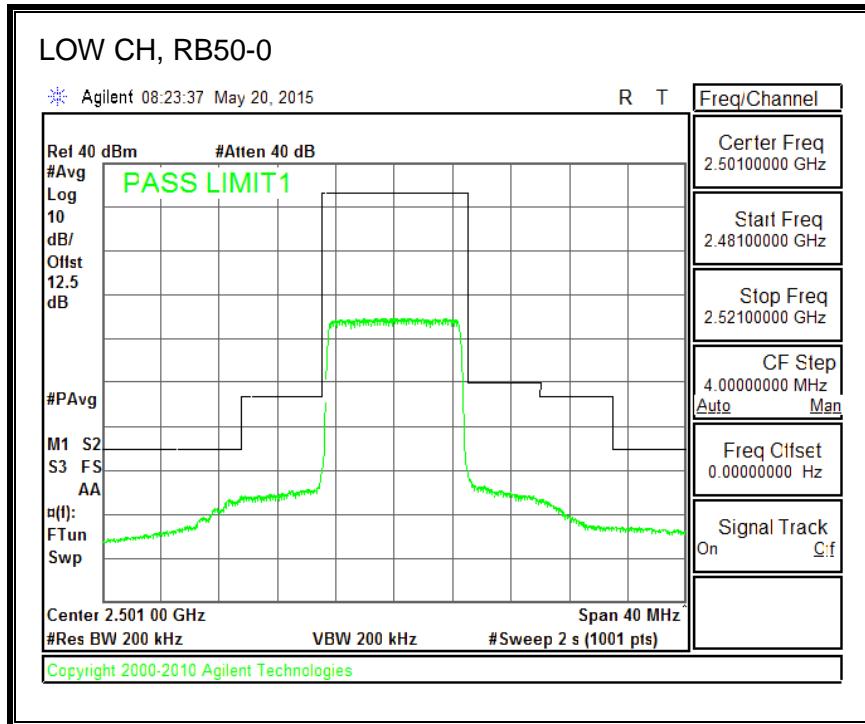


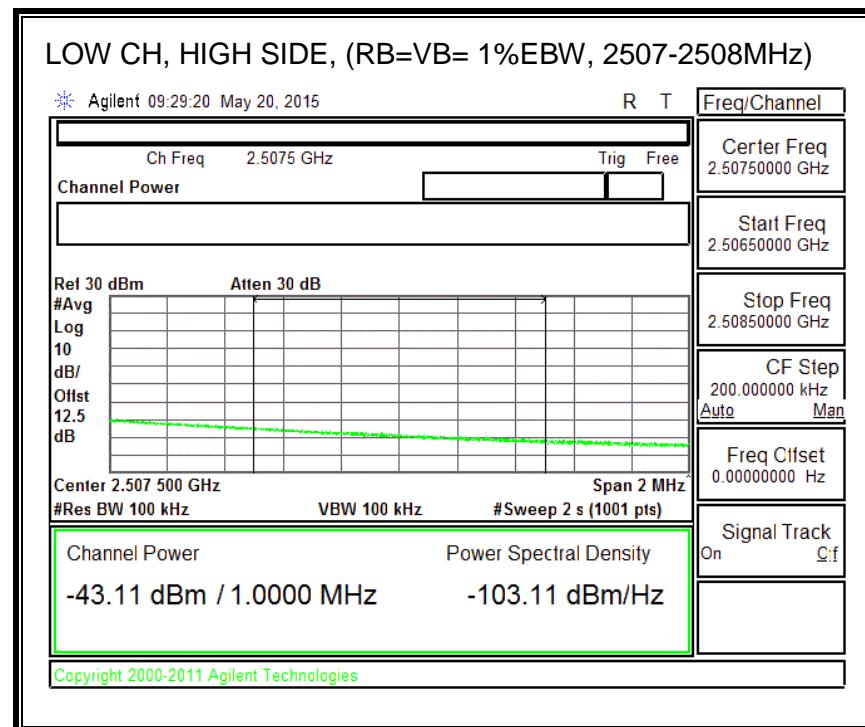
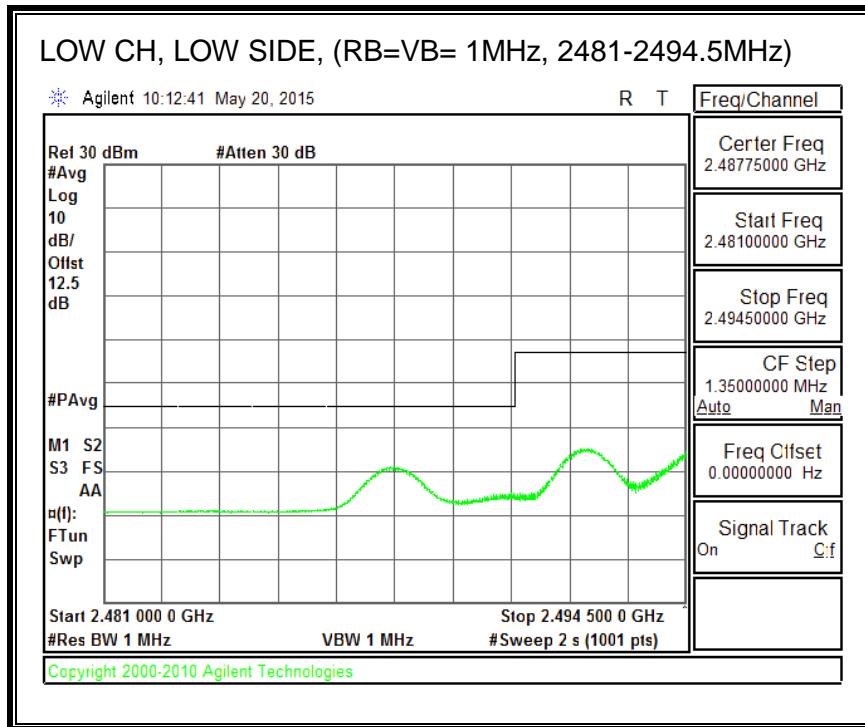


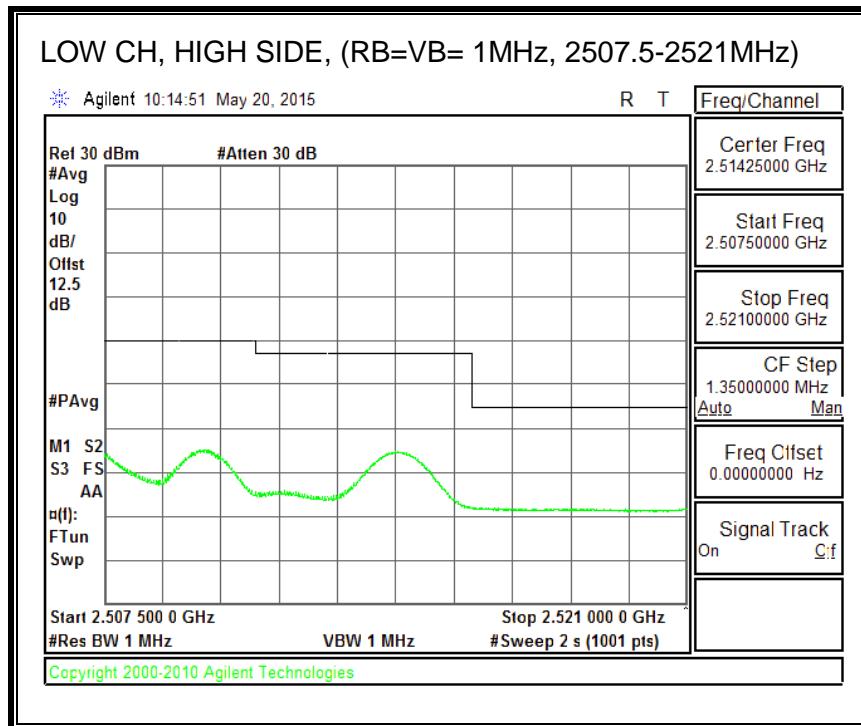


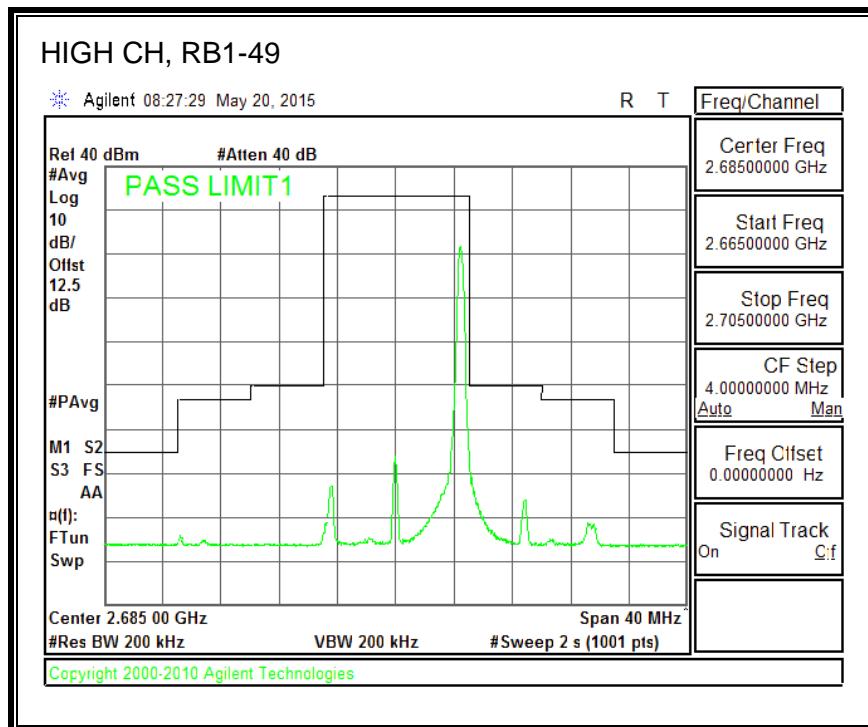
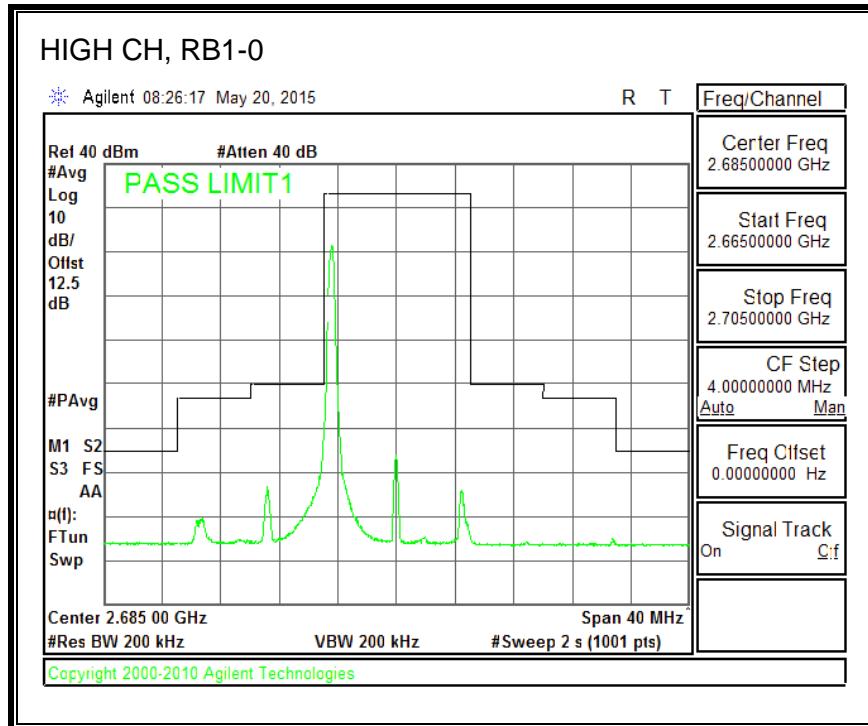


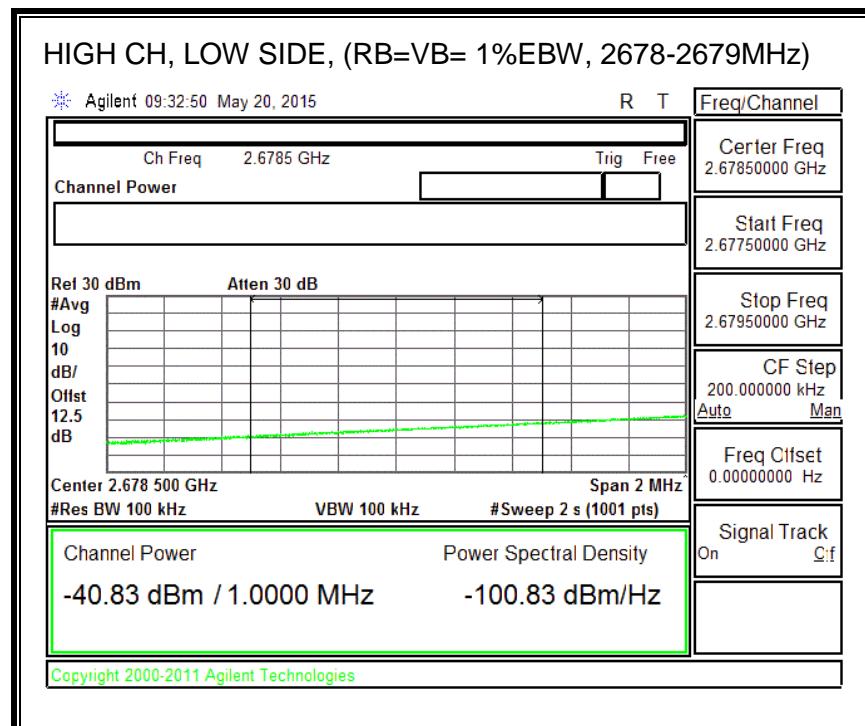
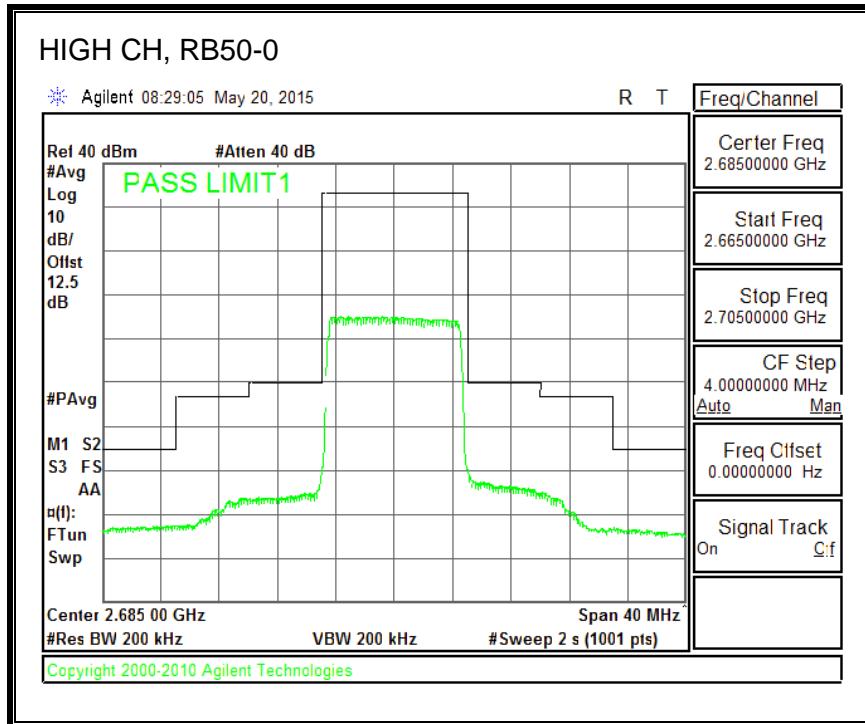
**16QAM, (10.0 MHz BAND WIDTH)**

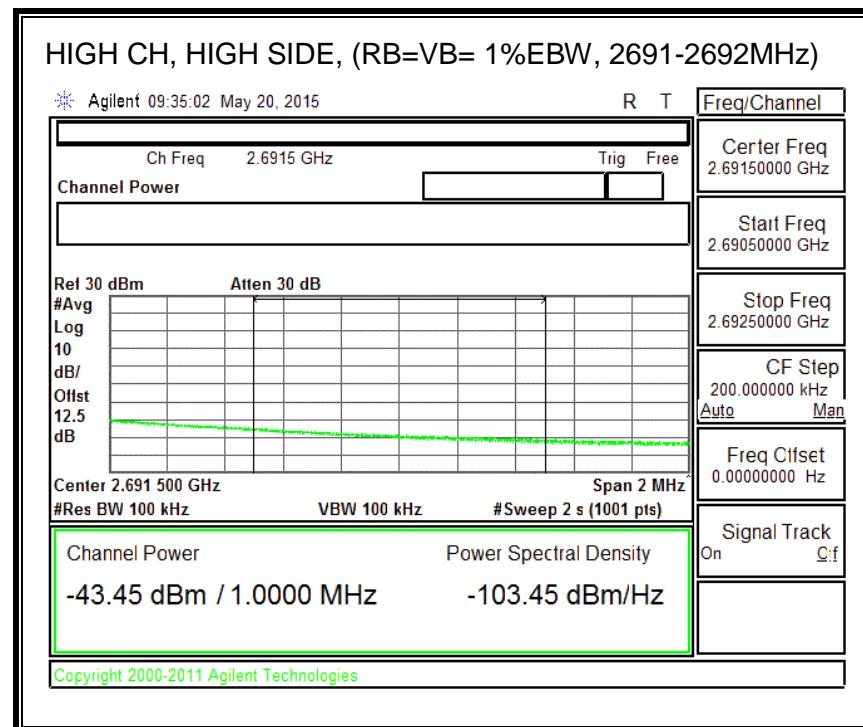
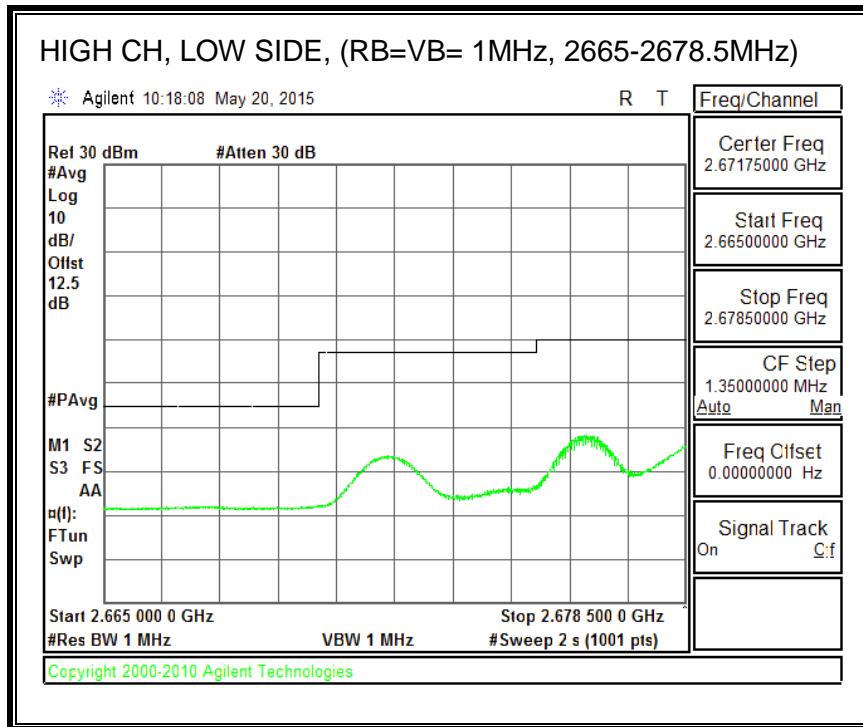


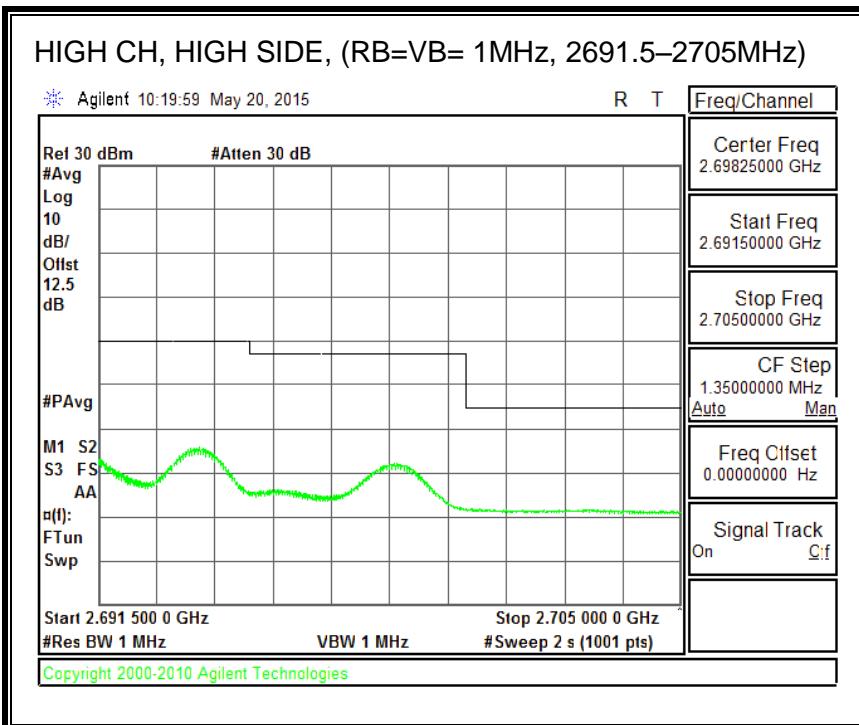


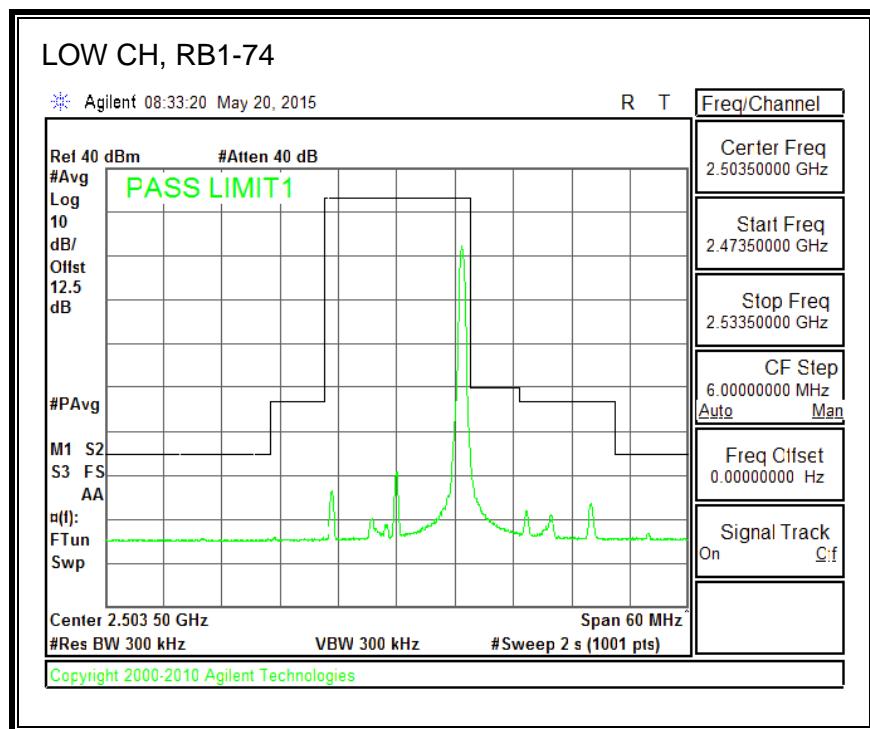
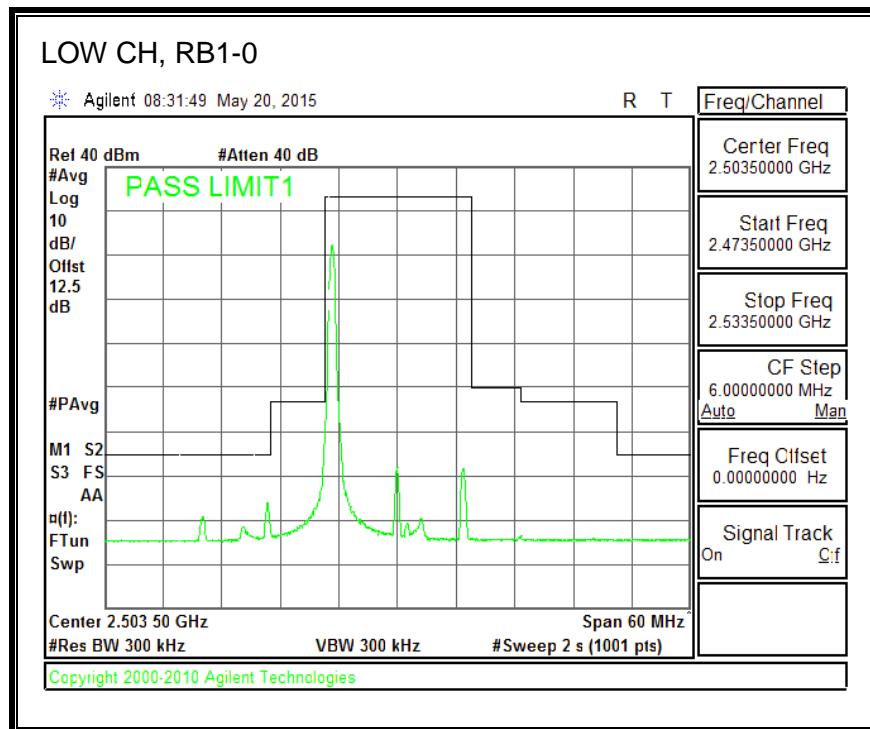


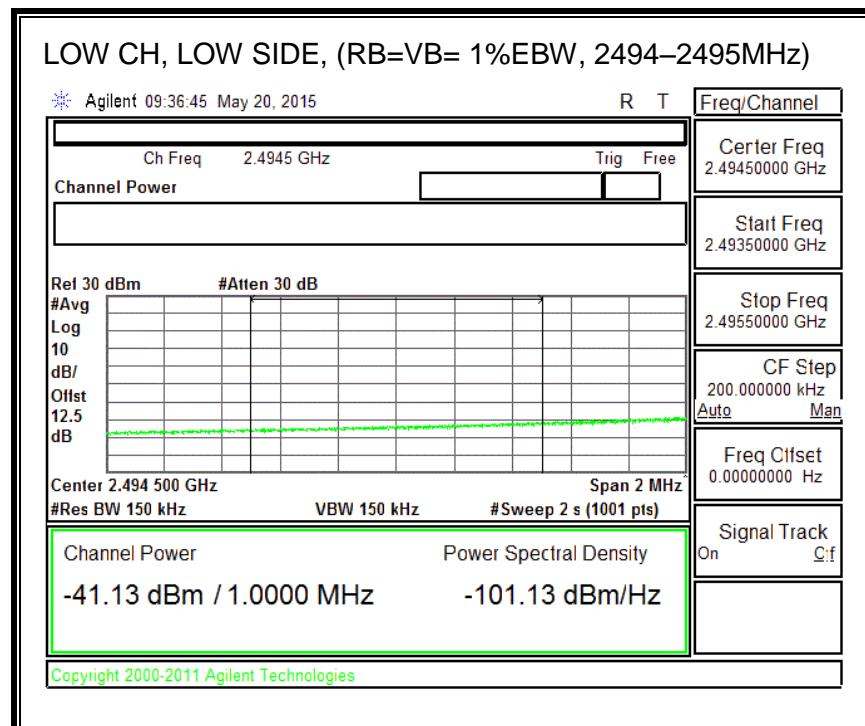
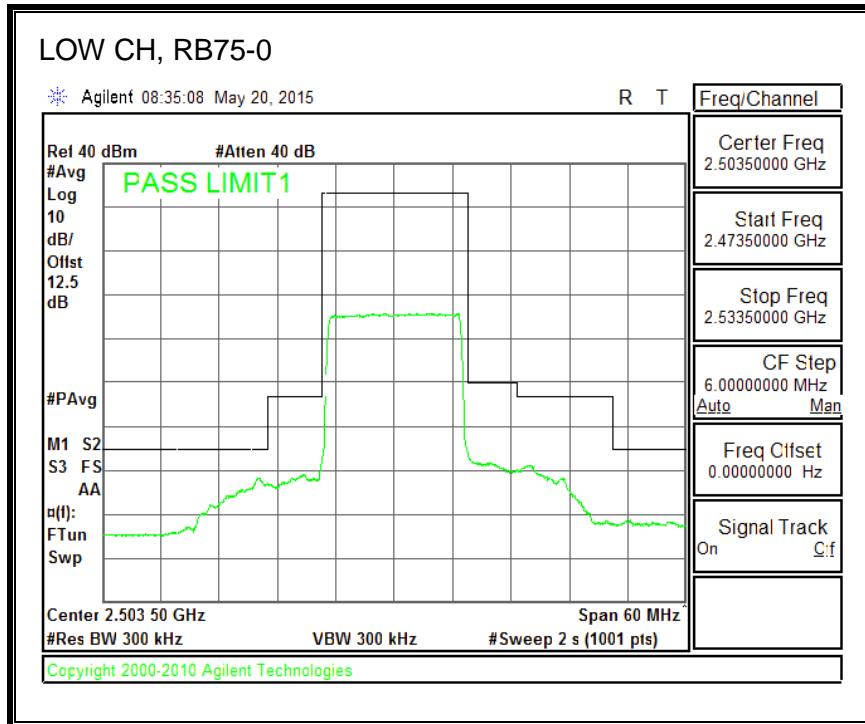


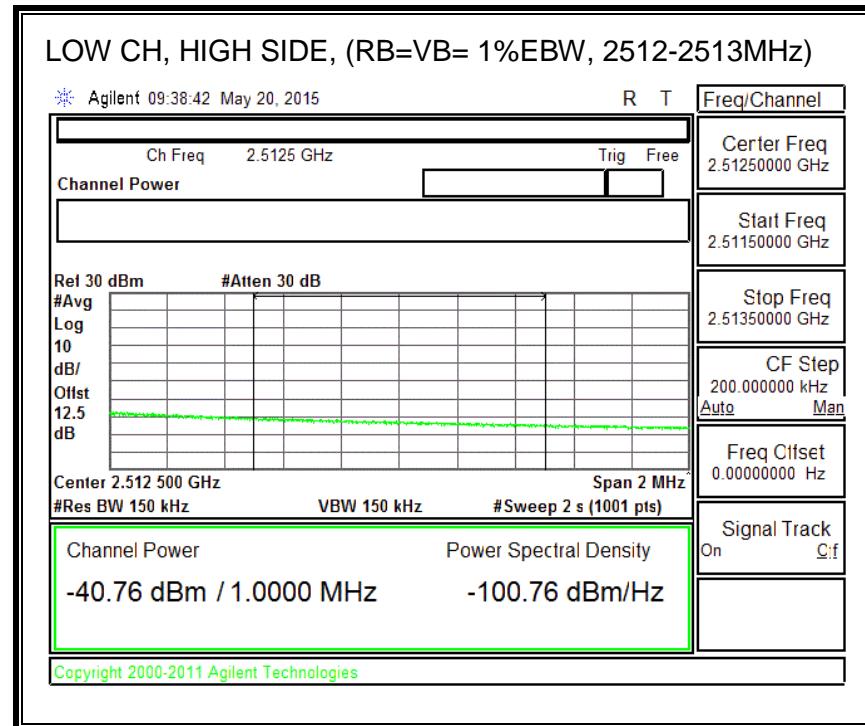
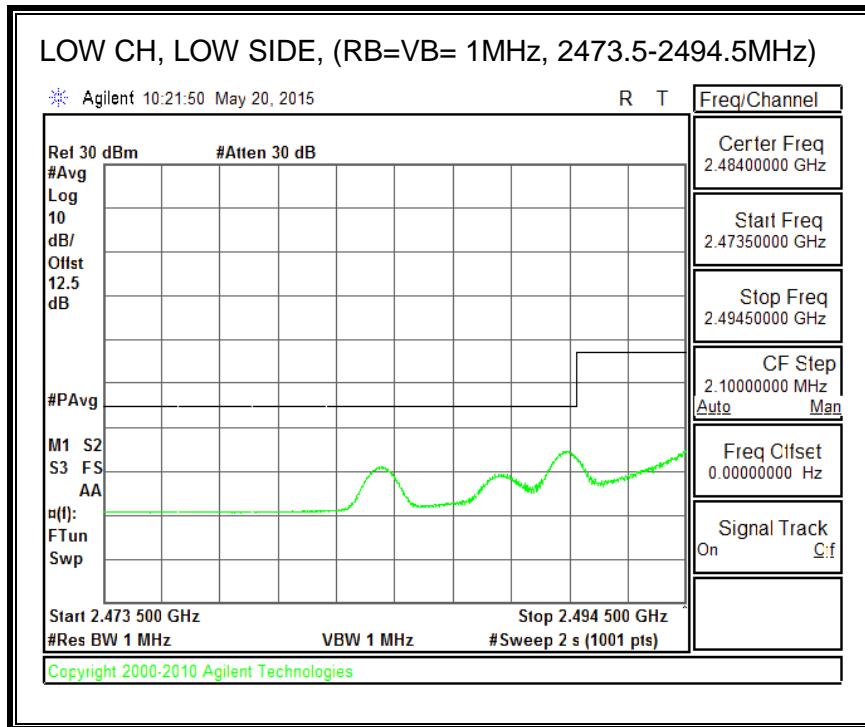


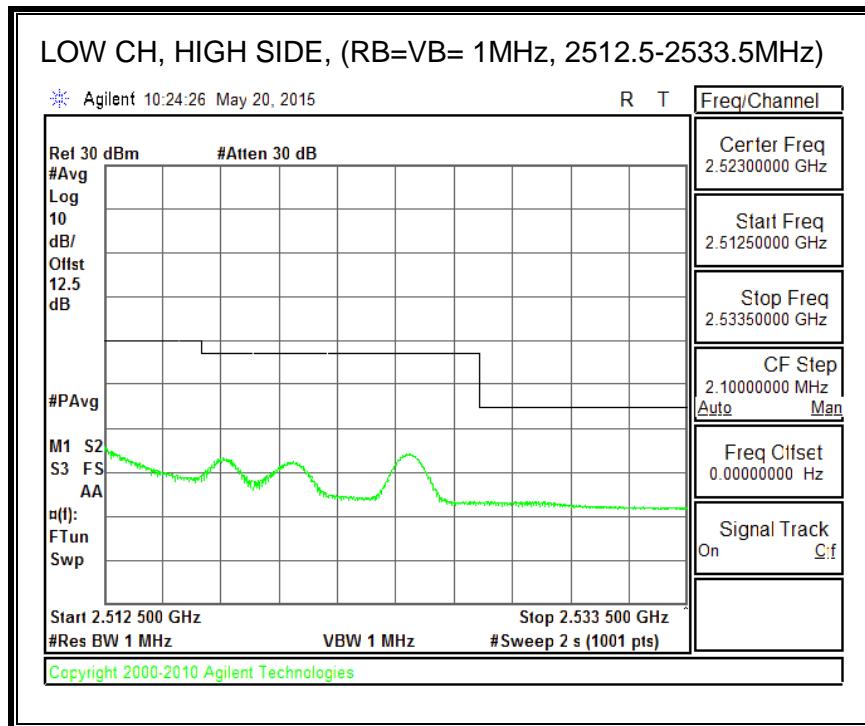


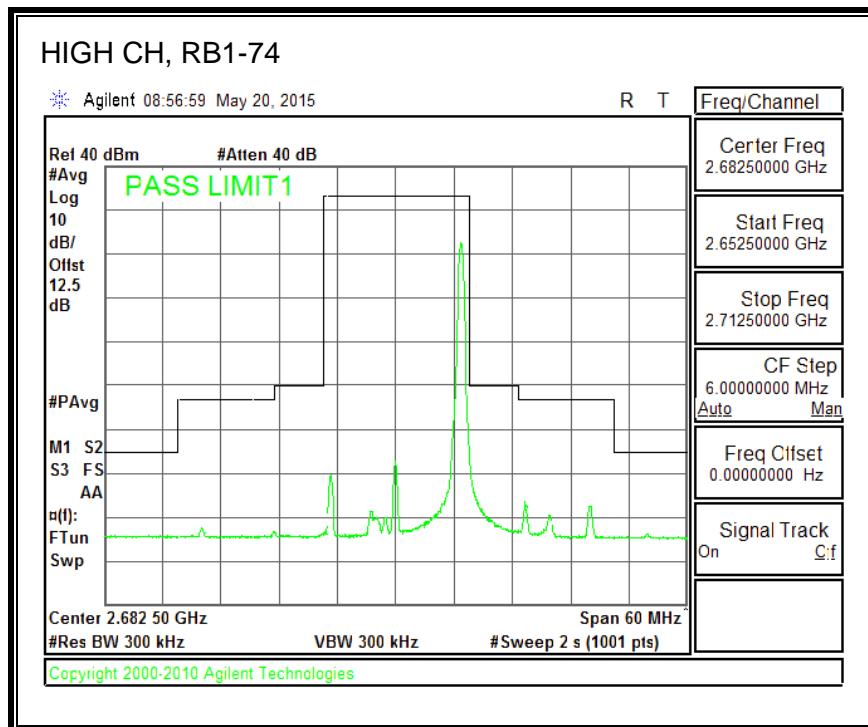
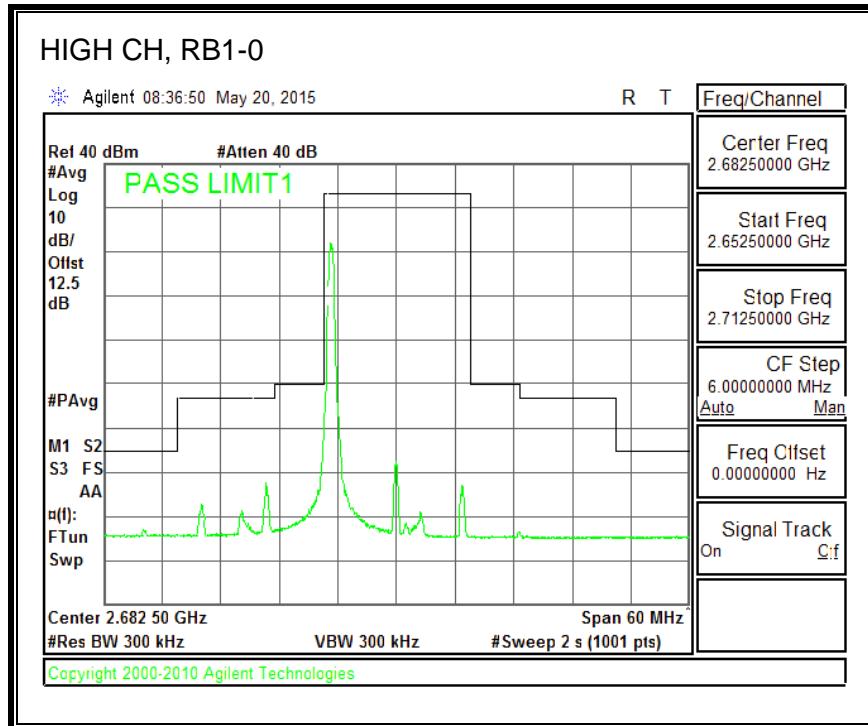


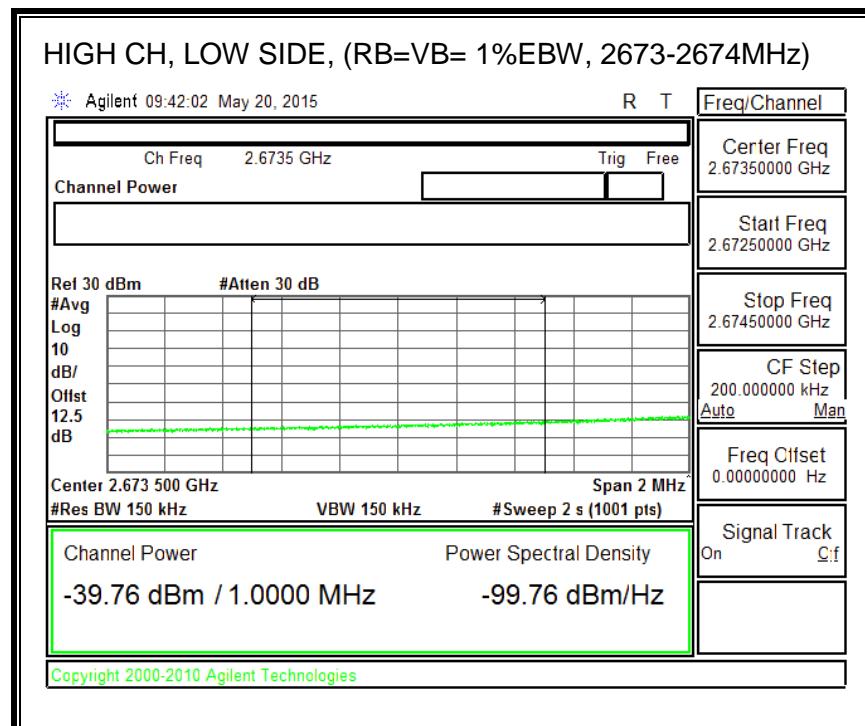
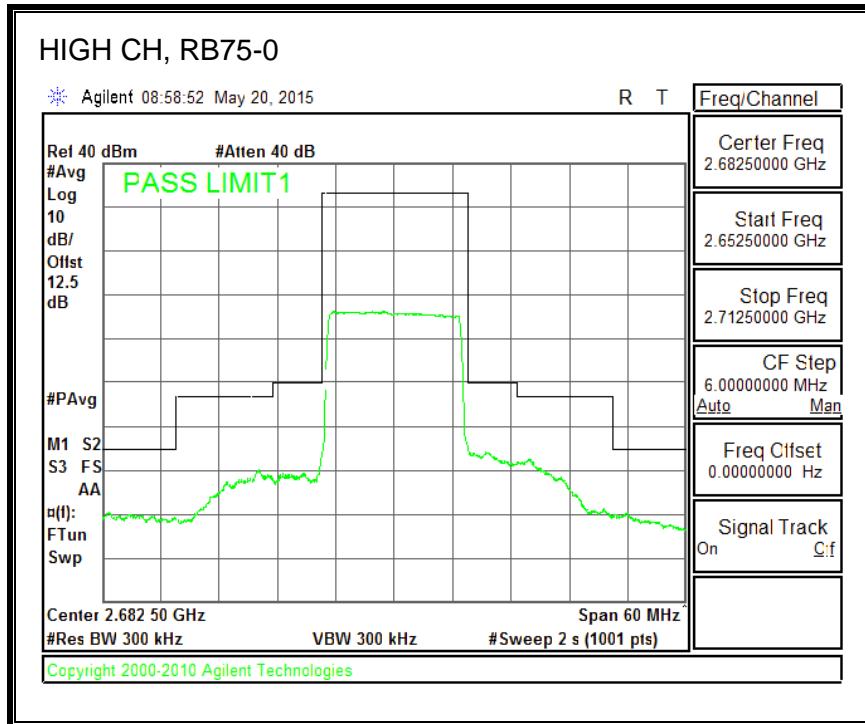
**QPSK, (15.0 MHz BAND WIDTH)**

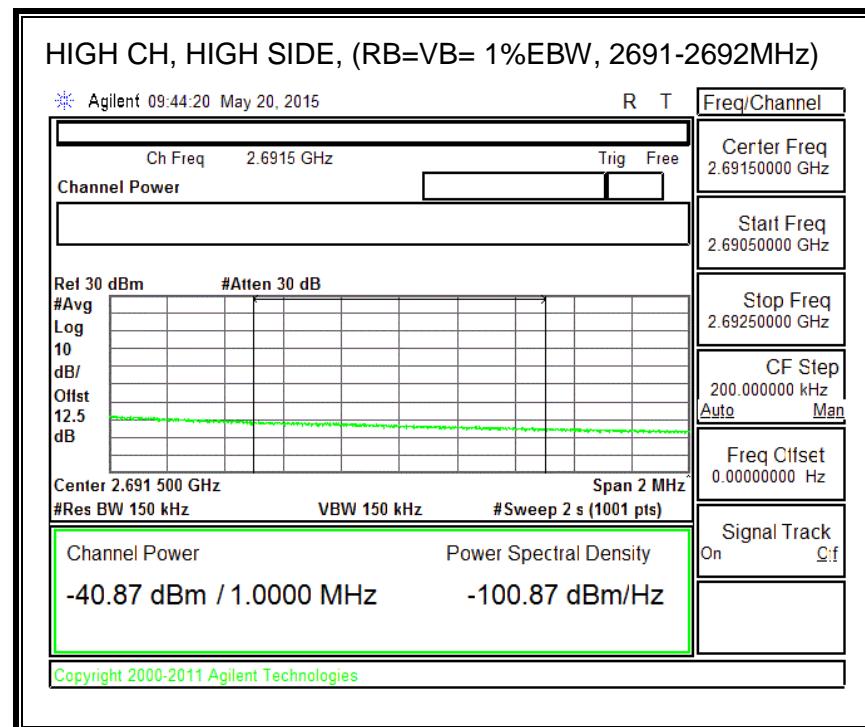
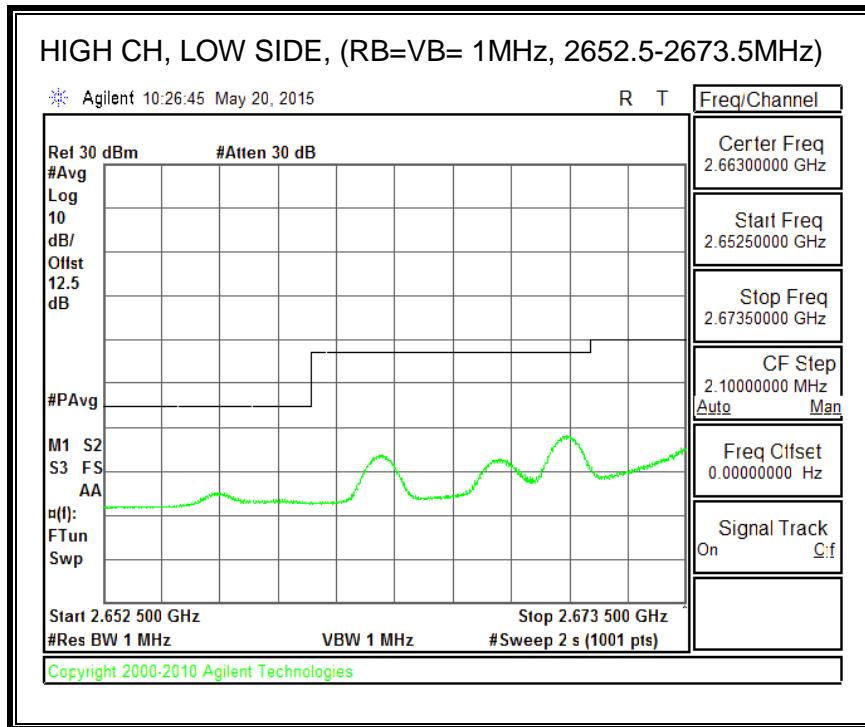


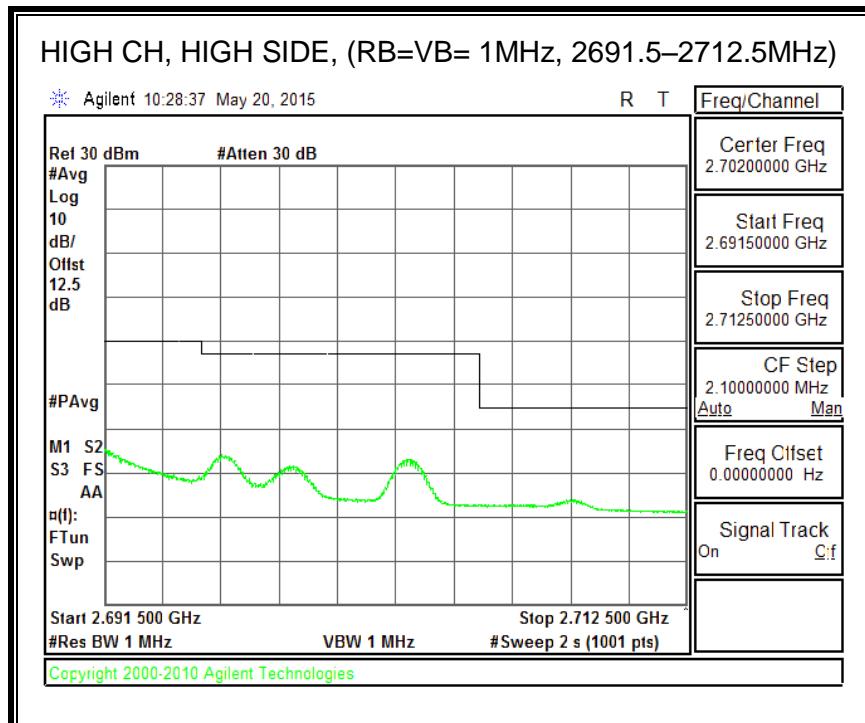


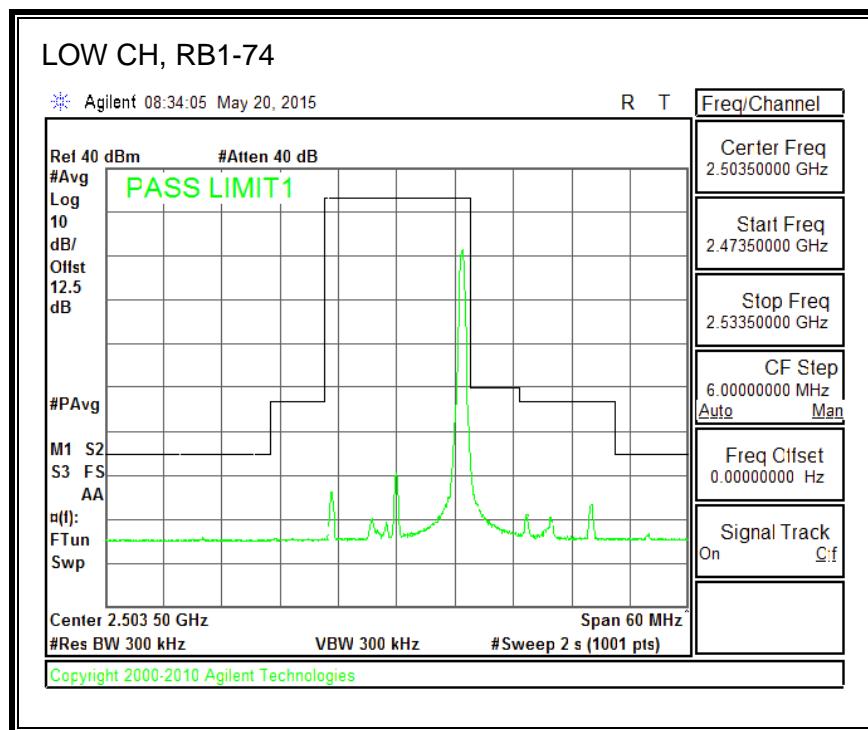
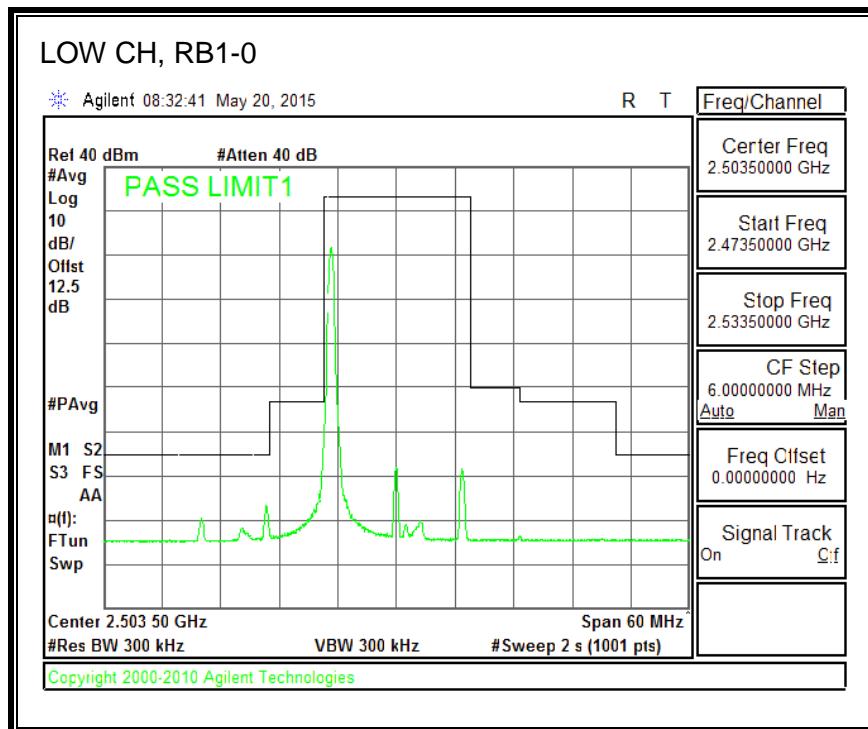


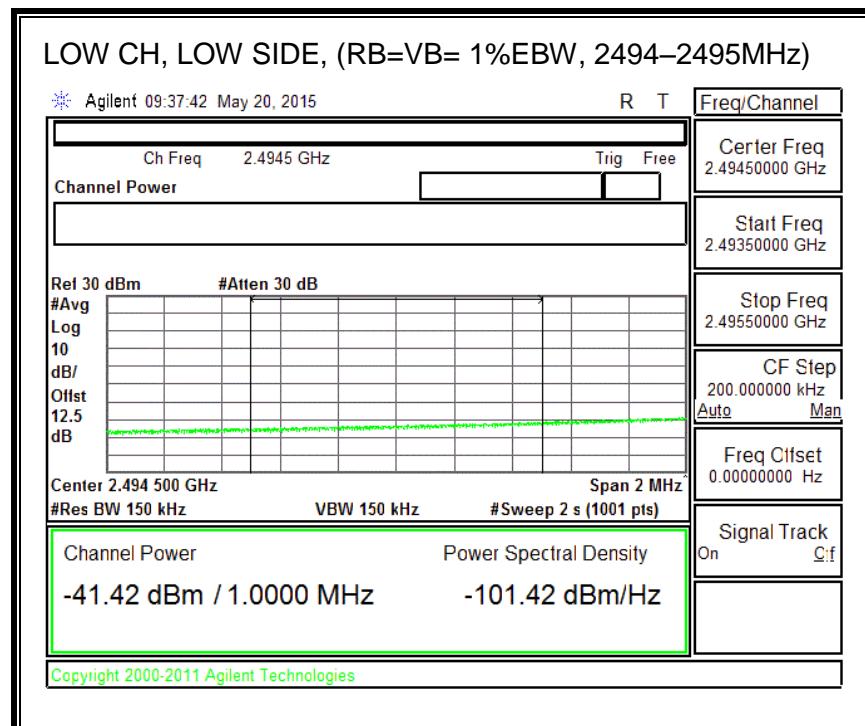
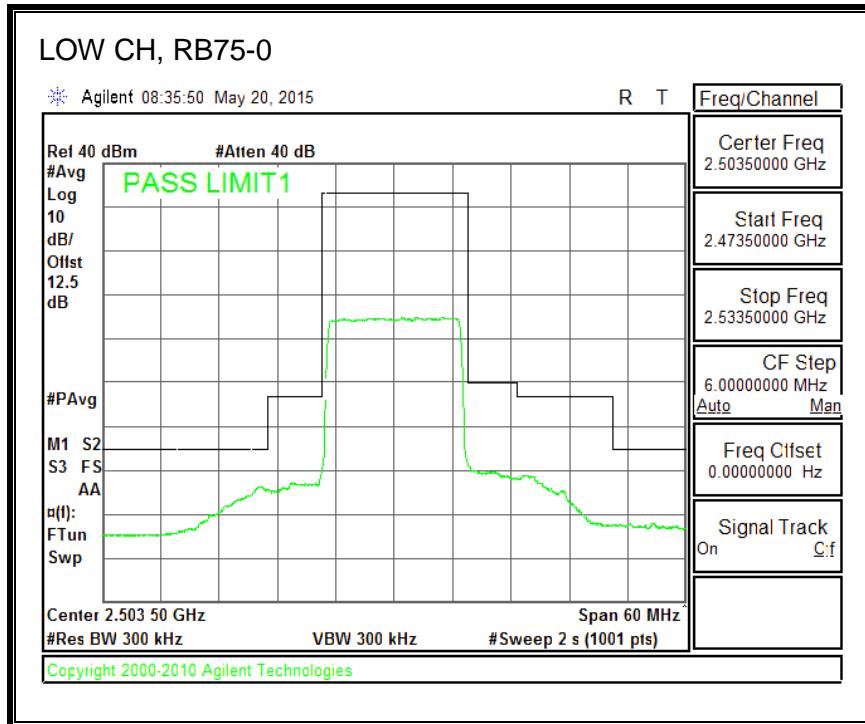


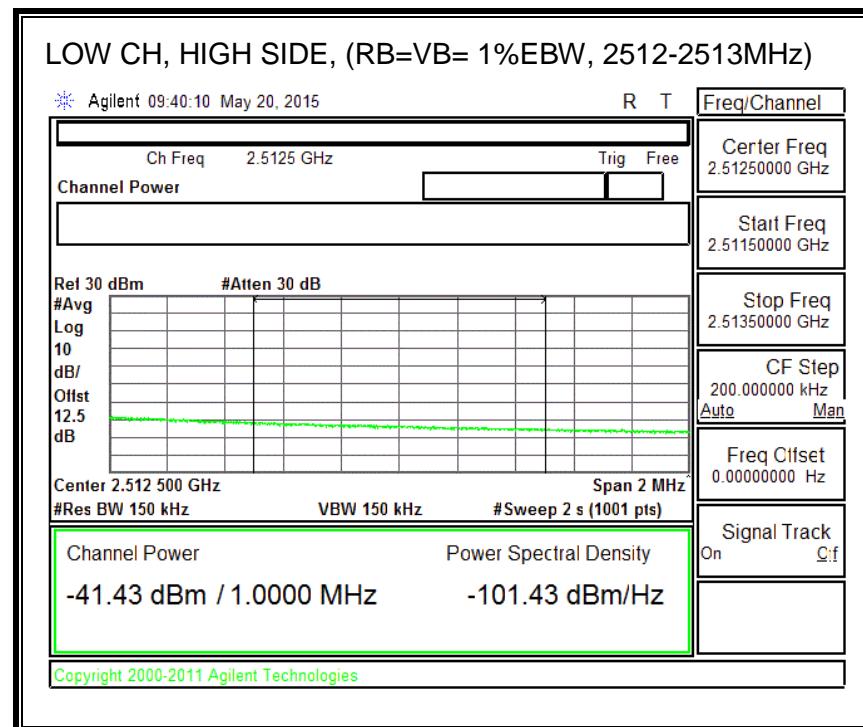
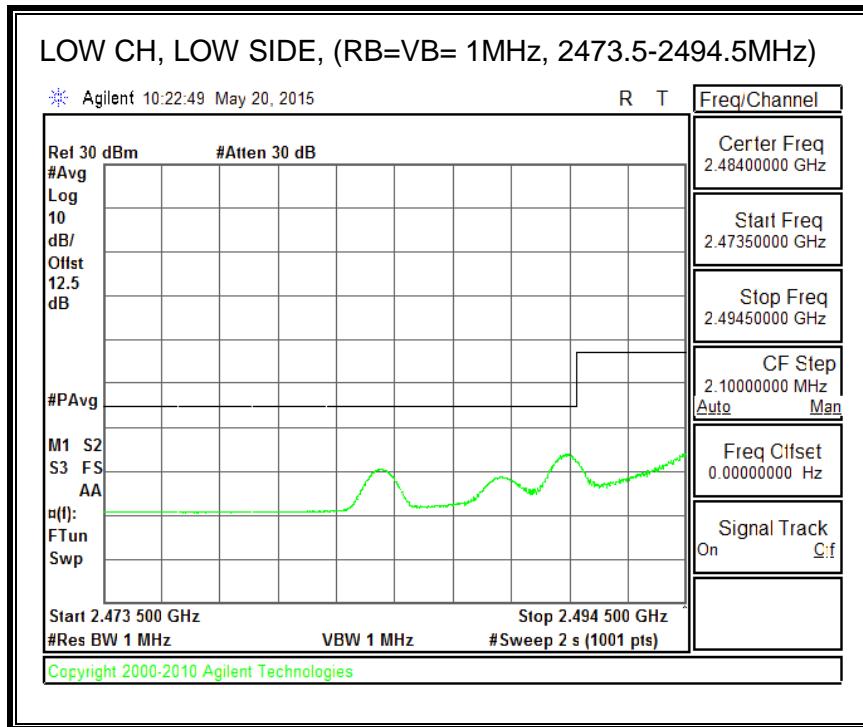


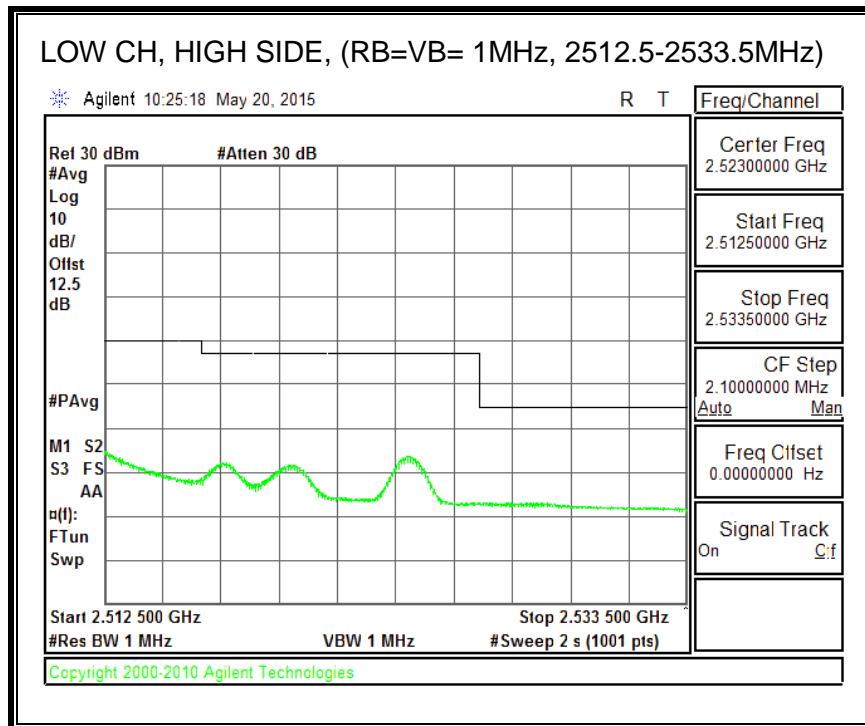


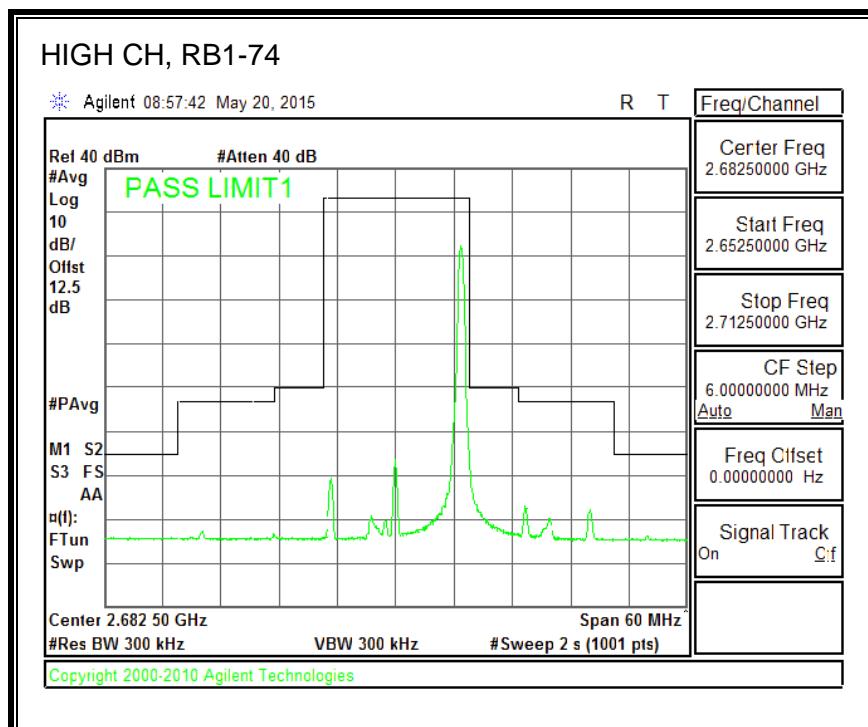
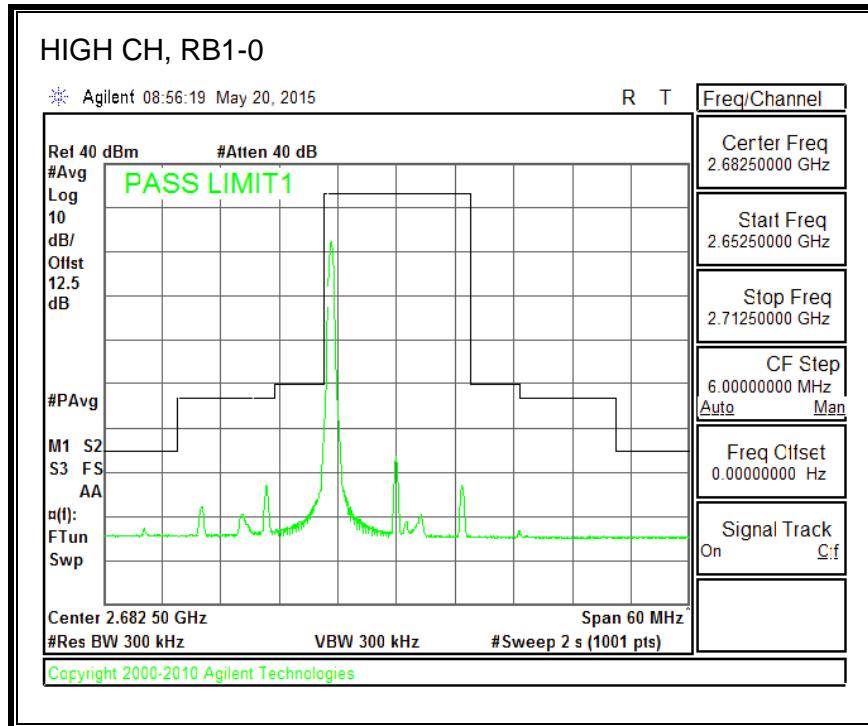


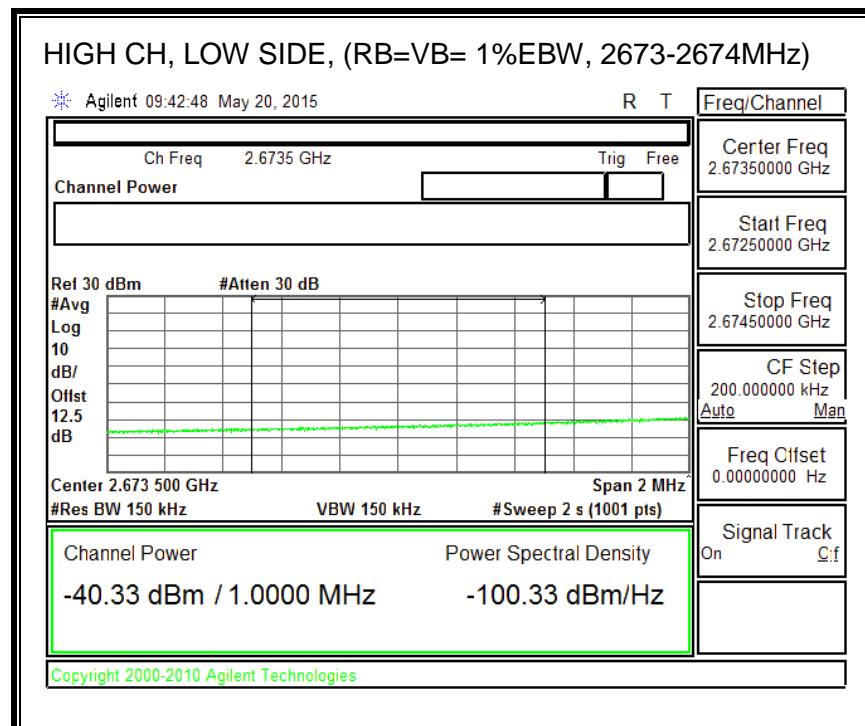
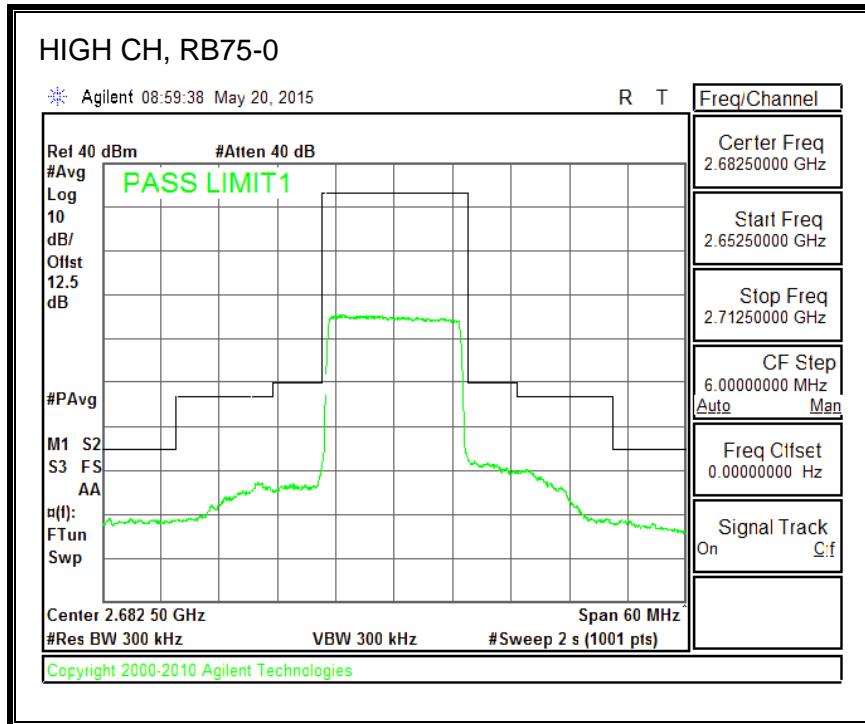
**16QAM, (15.0 MHz BAND WIDTH)**

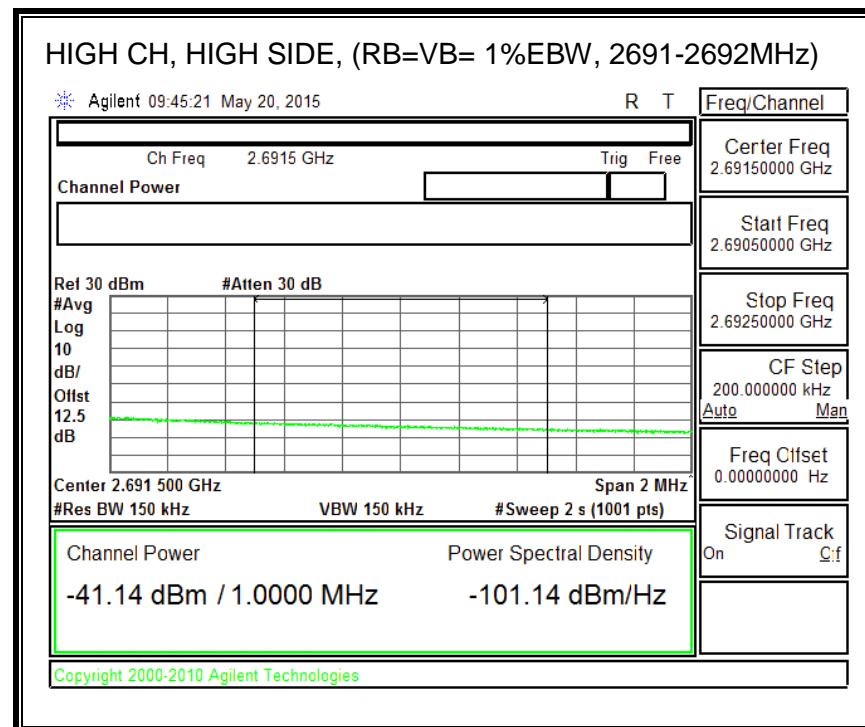
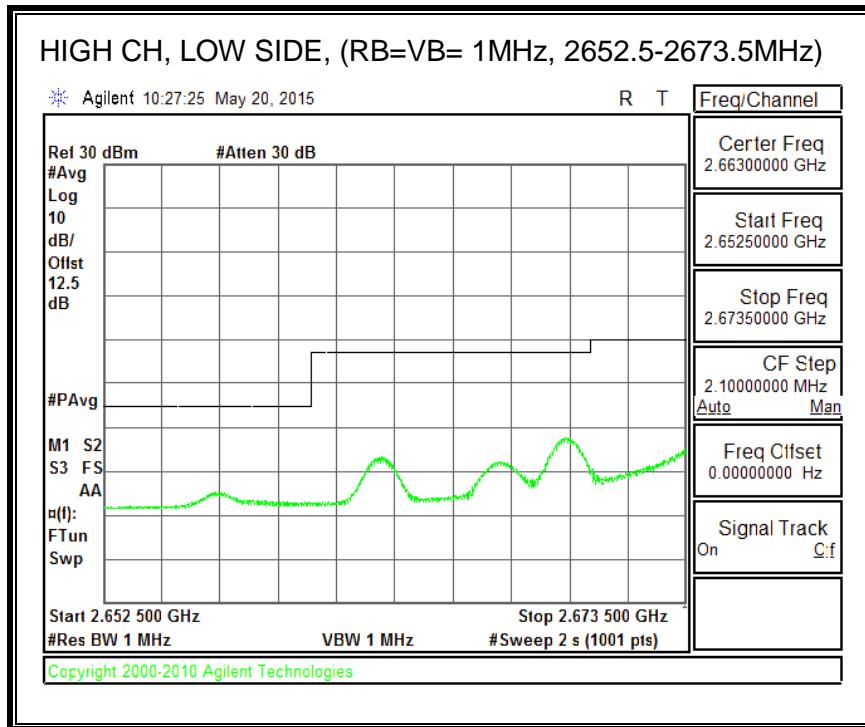


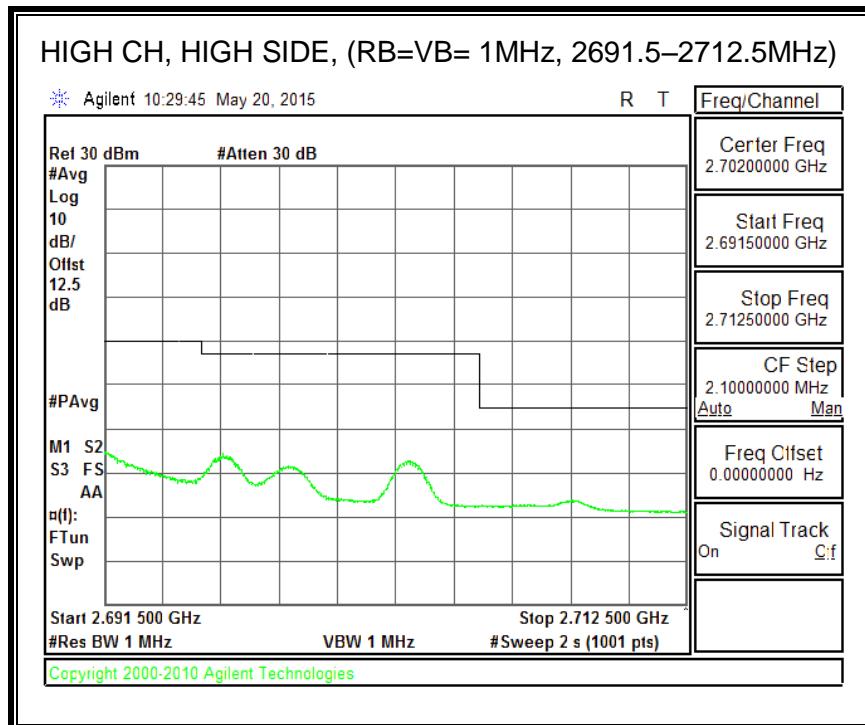


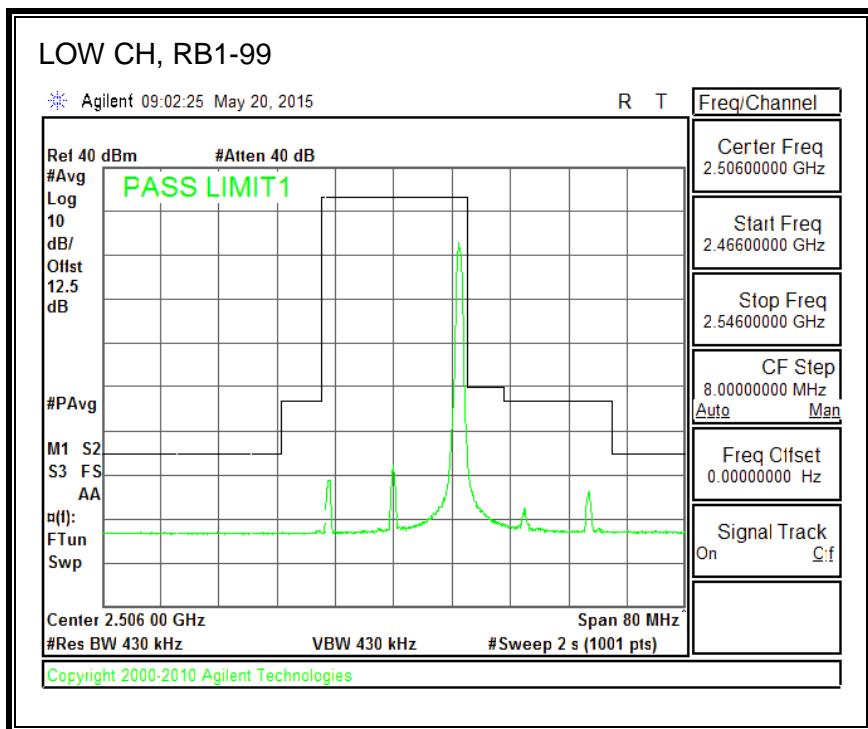
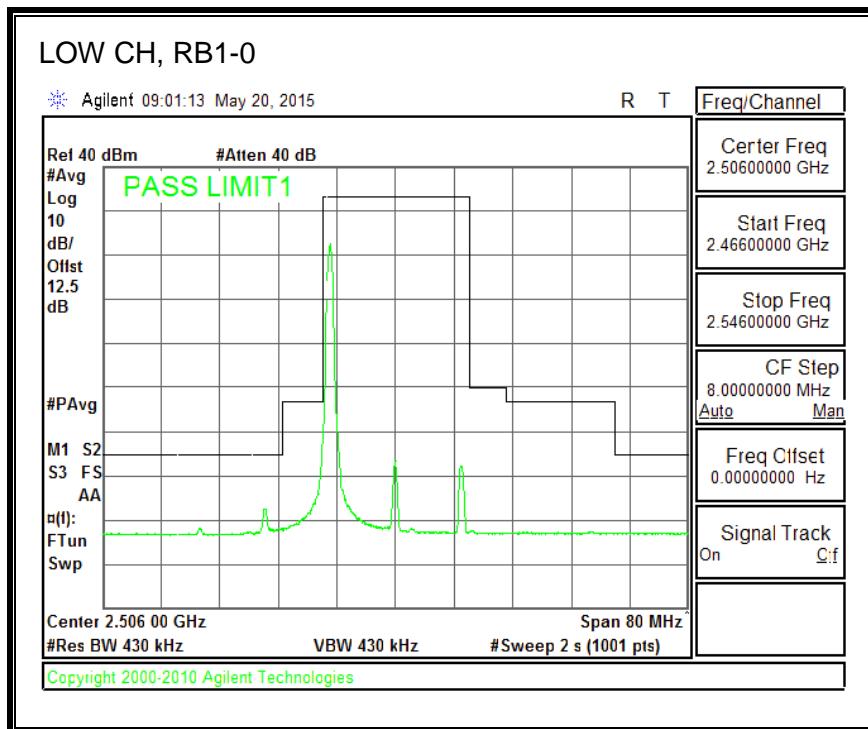


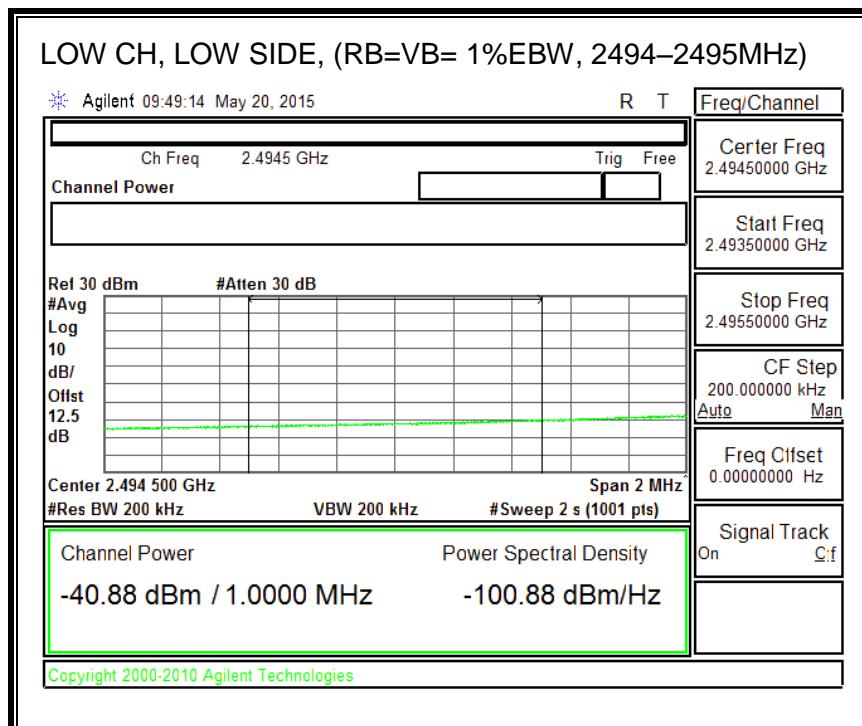
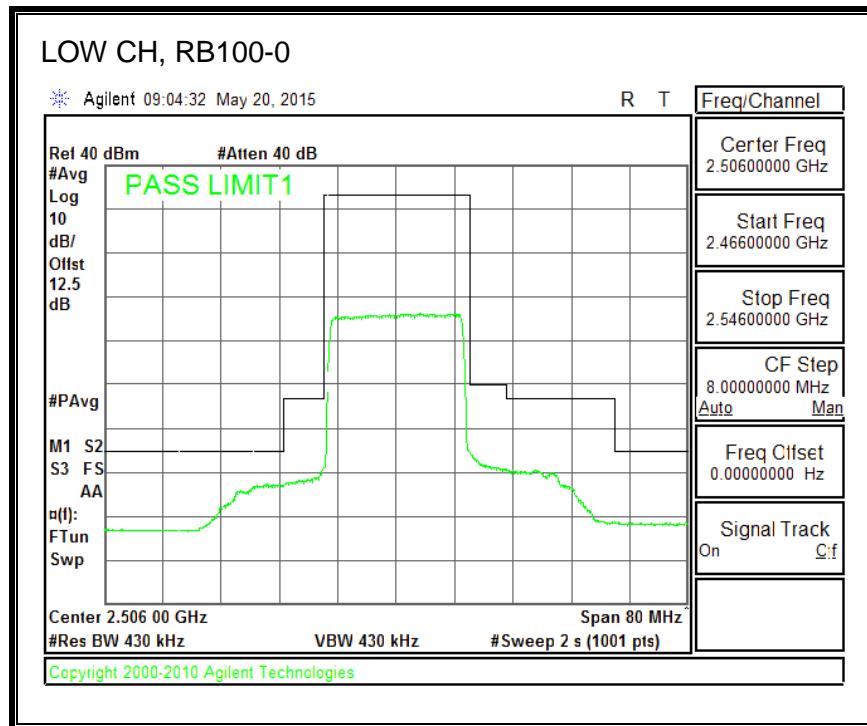


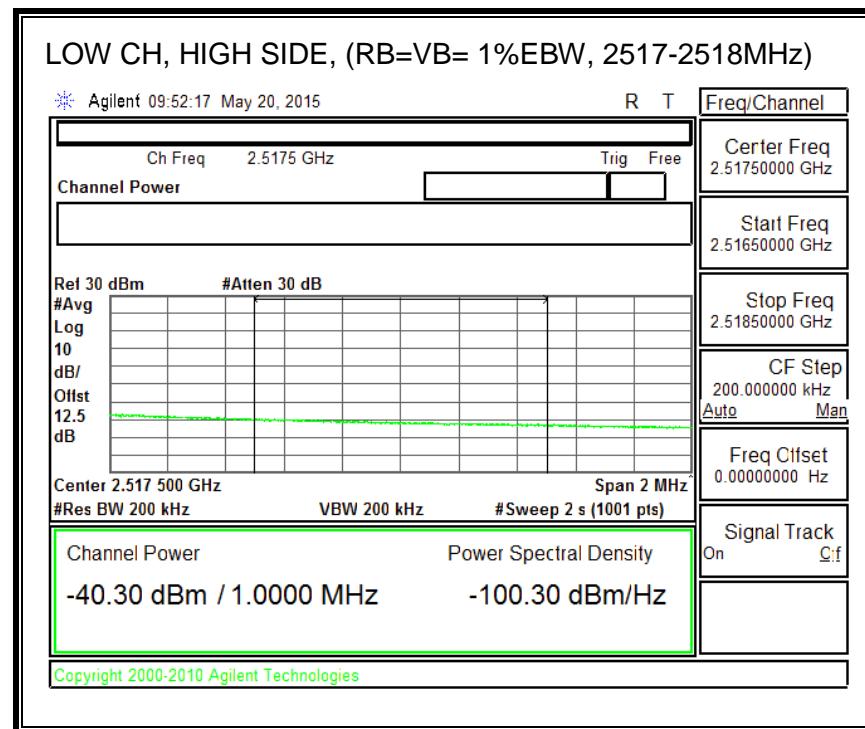
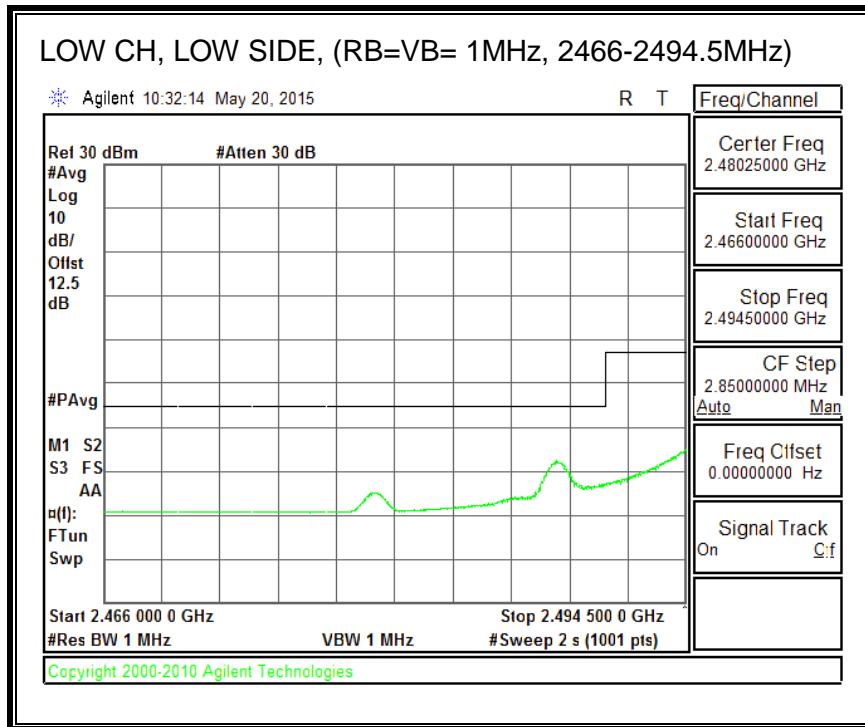


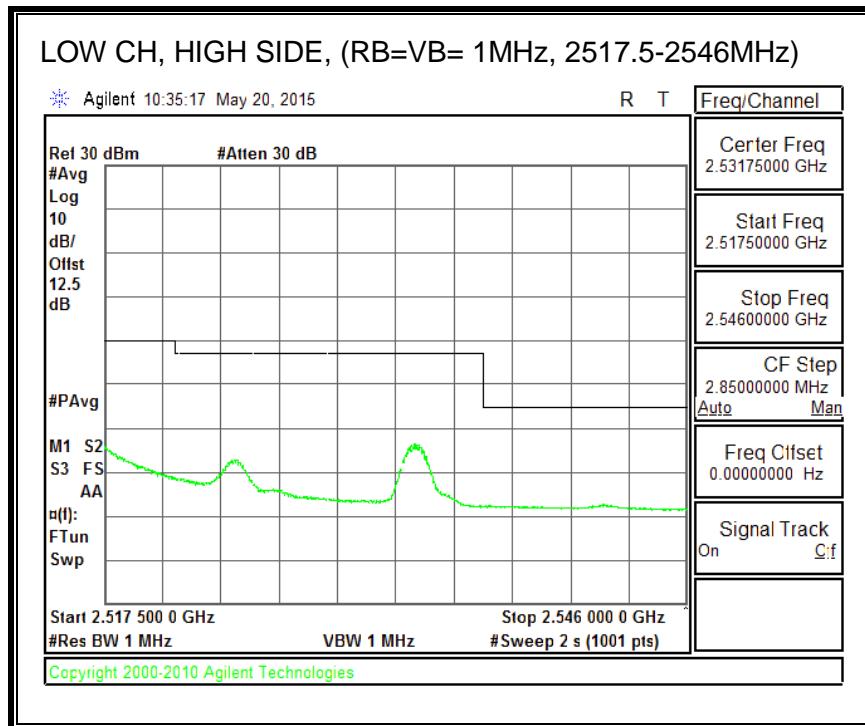


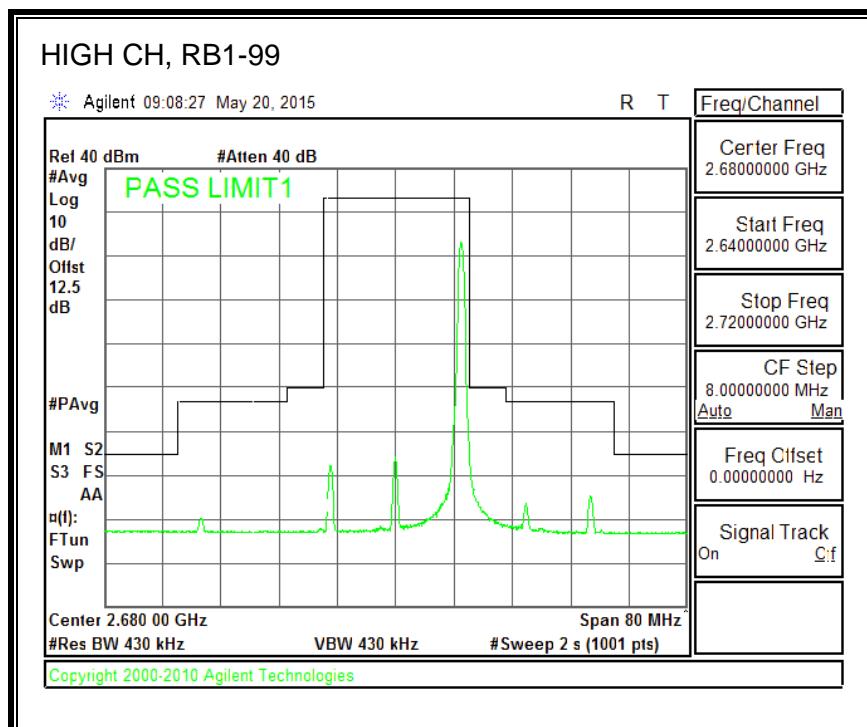
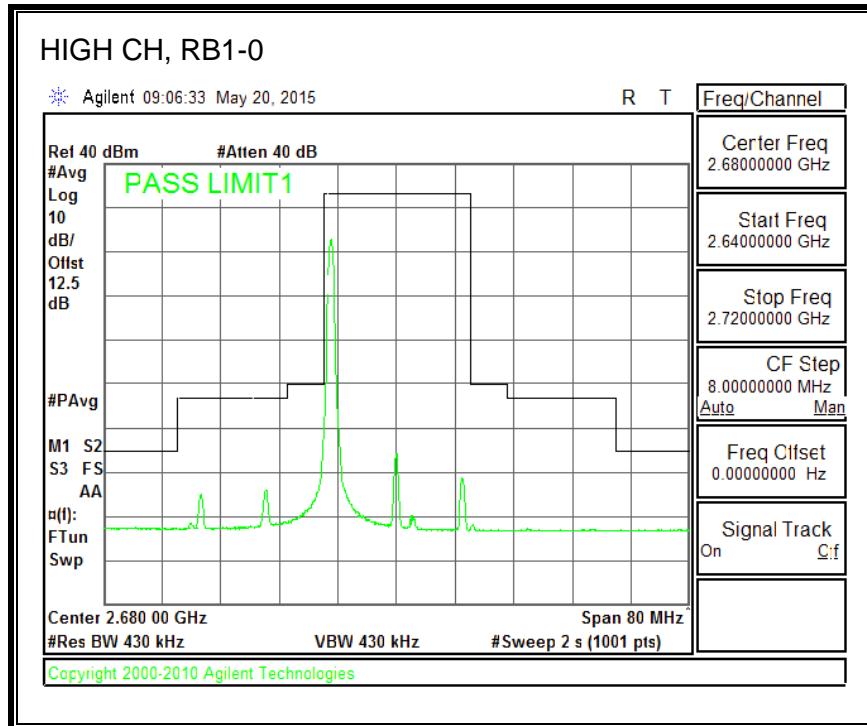


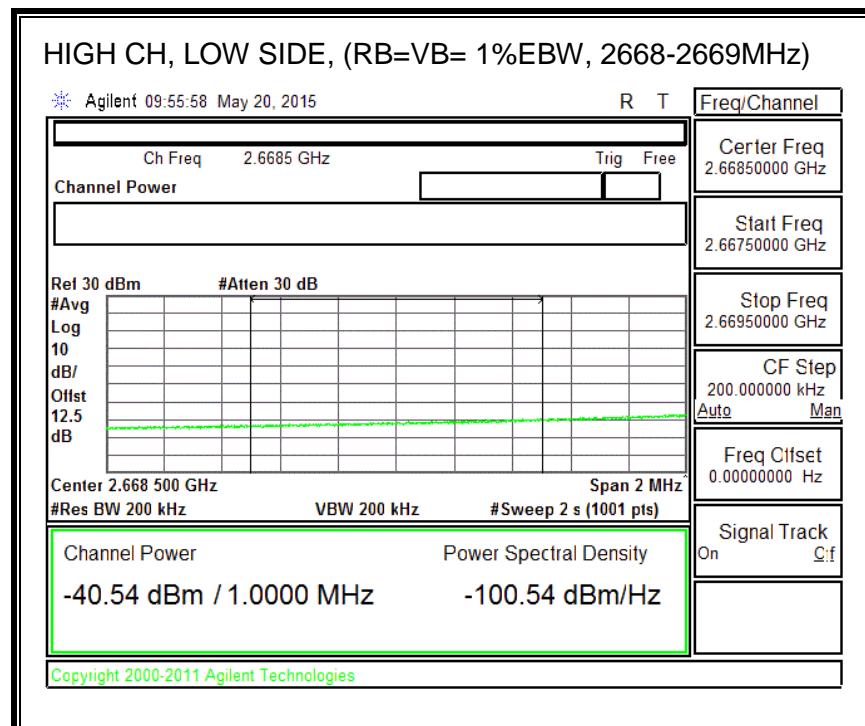
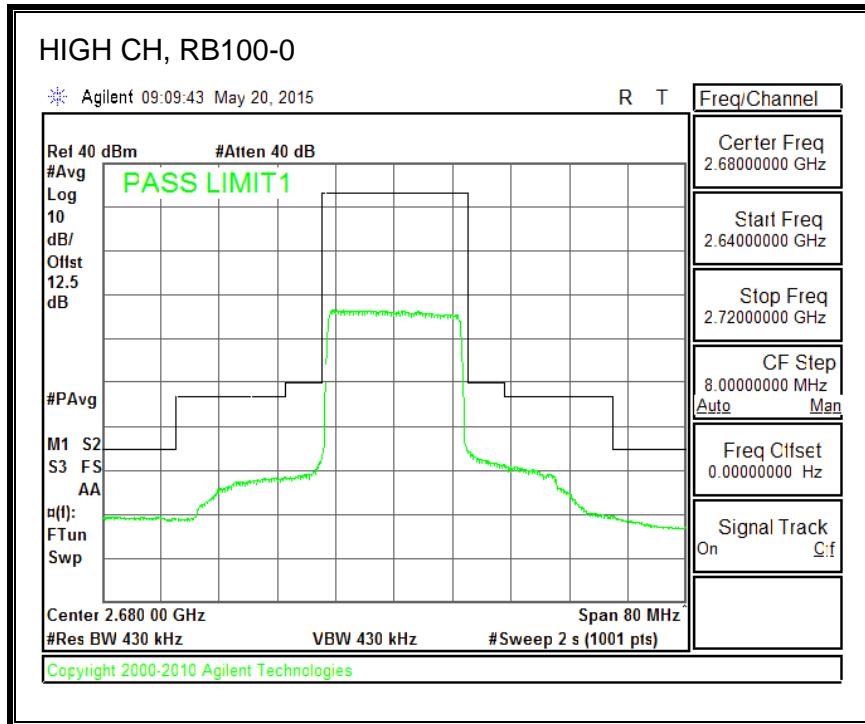
**QPSK, (20.0 MHz BAND WIDTH)**

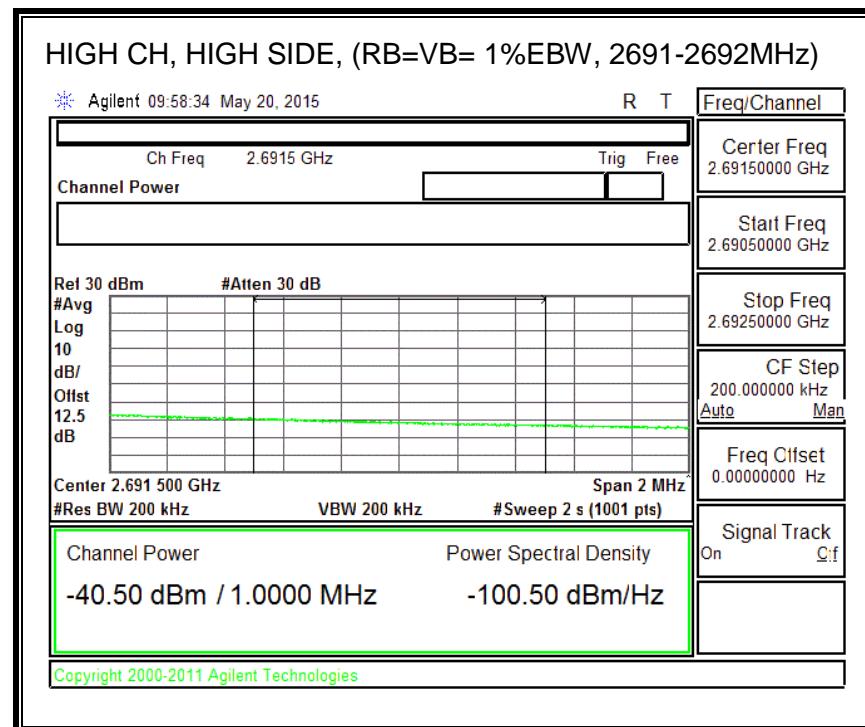
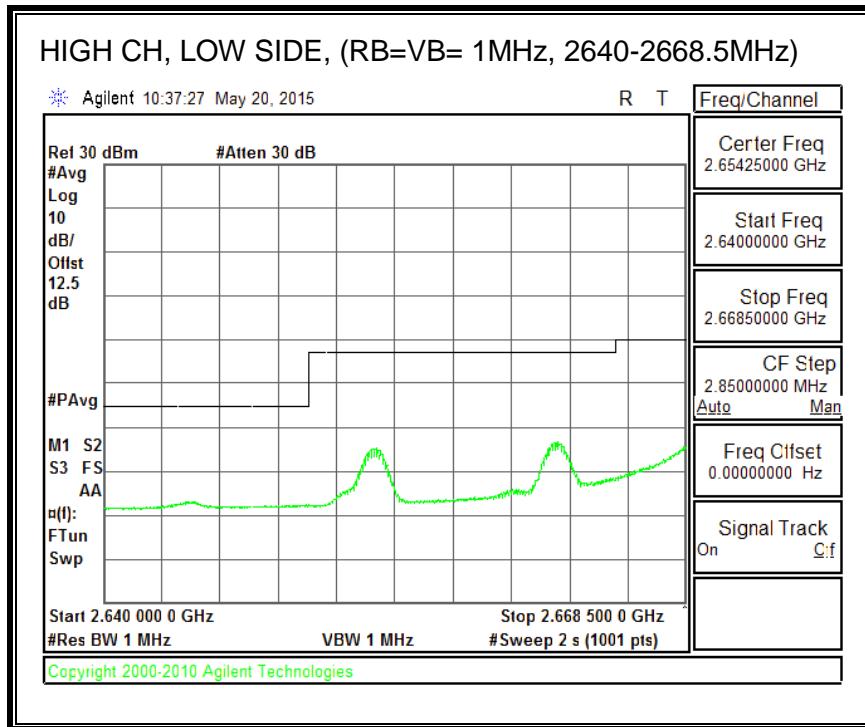


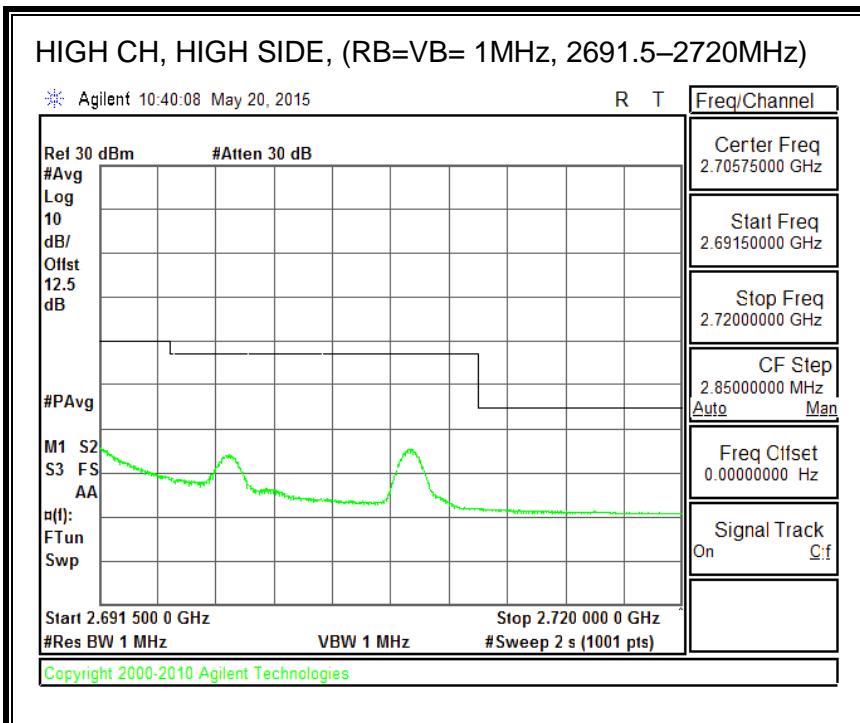


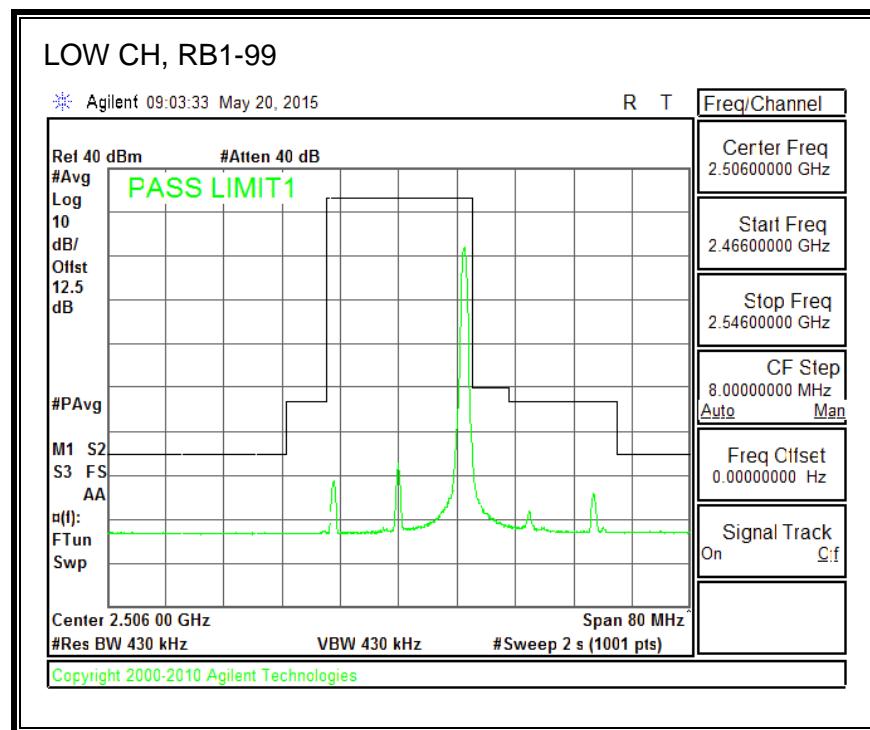
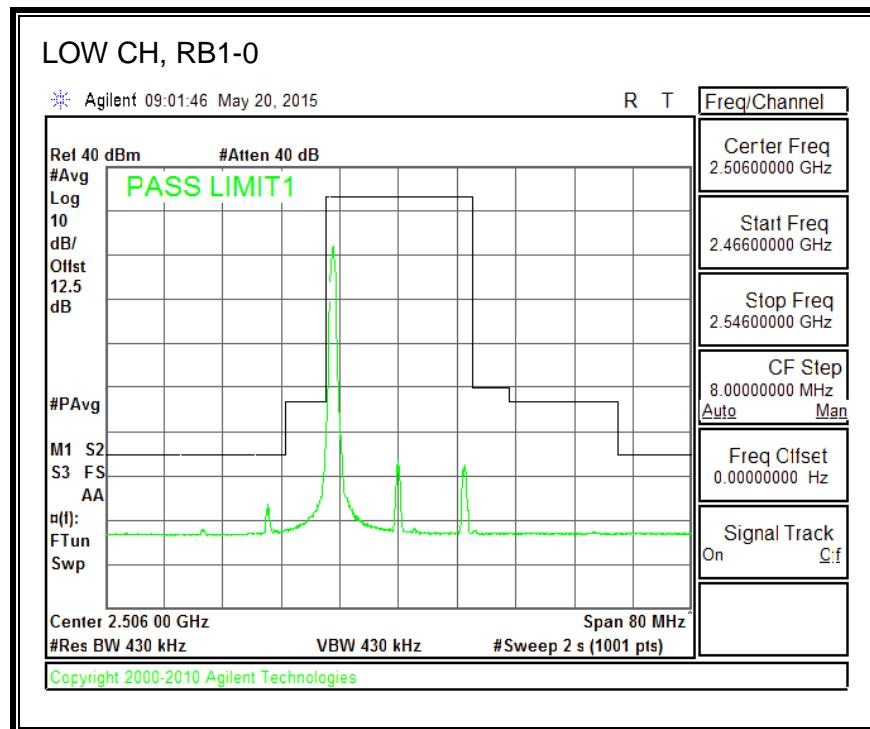


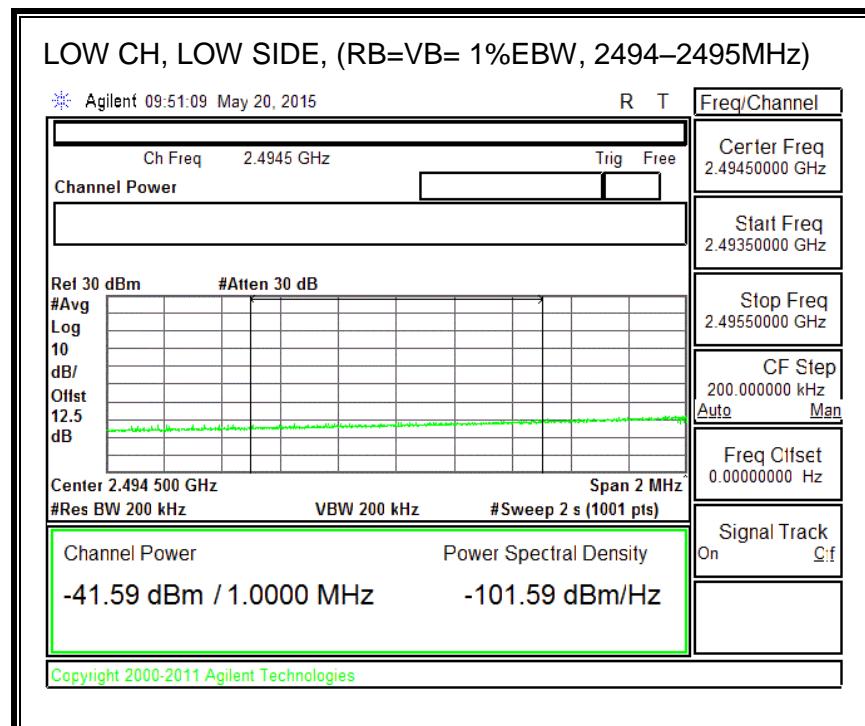
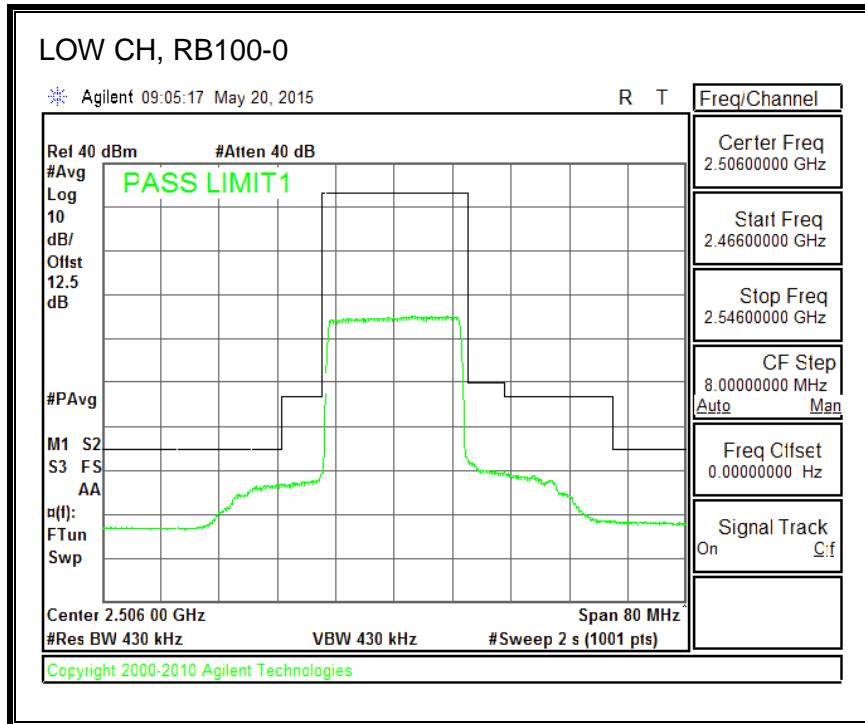


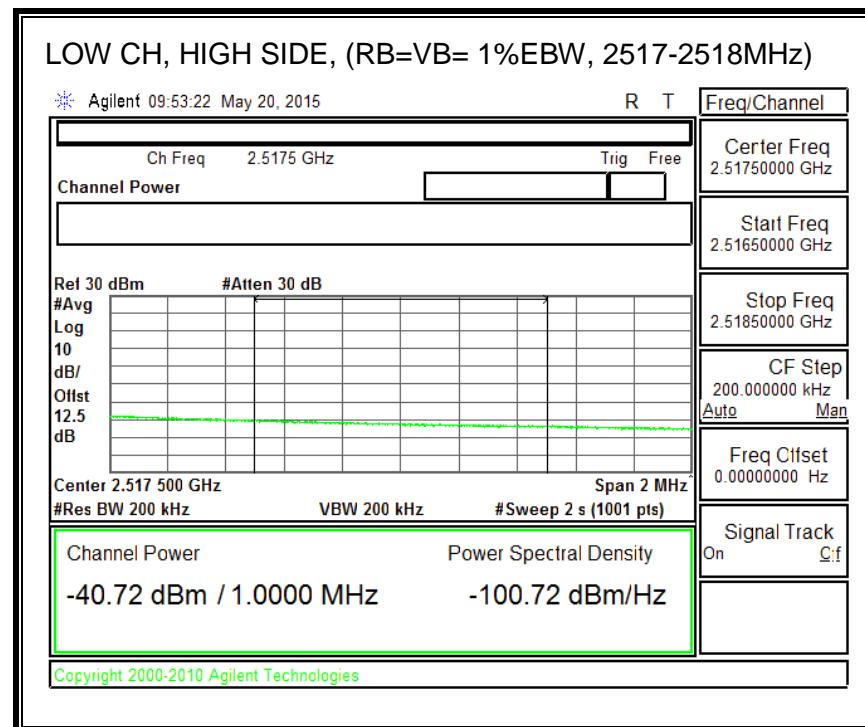
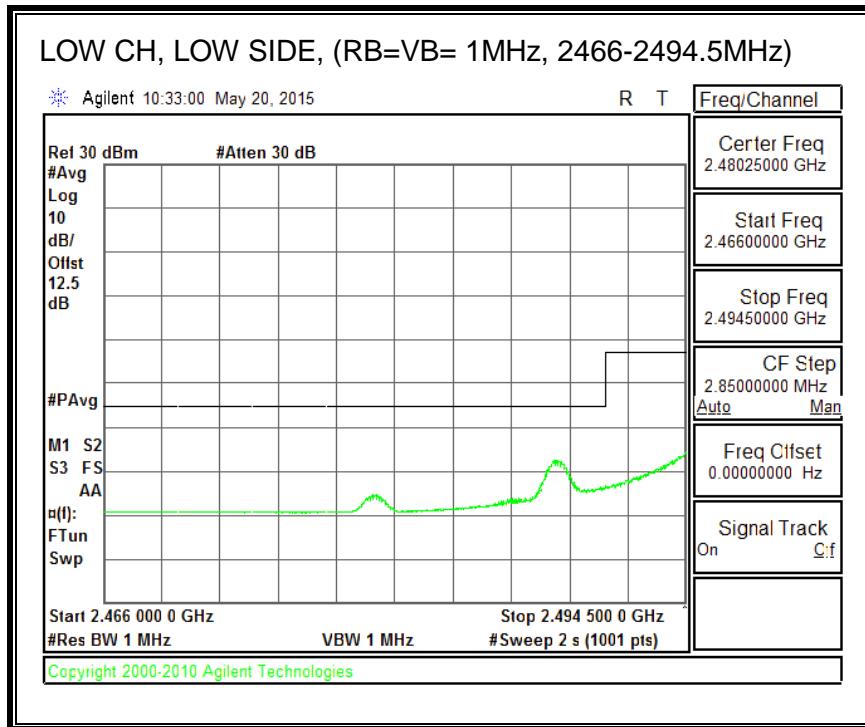


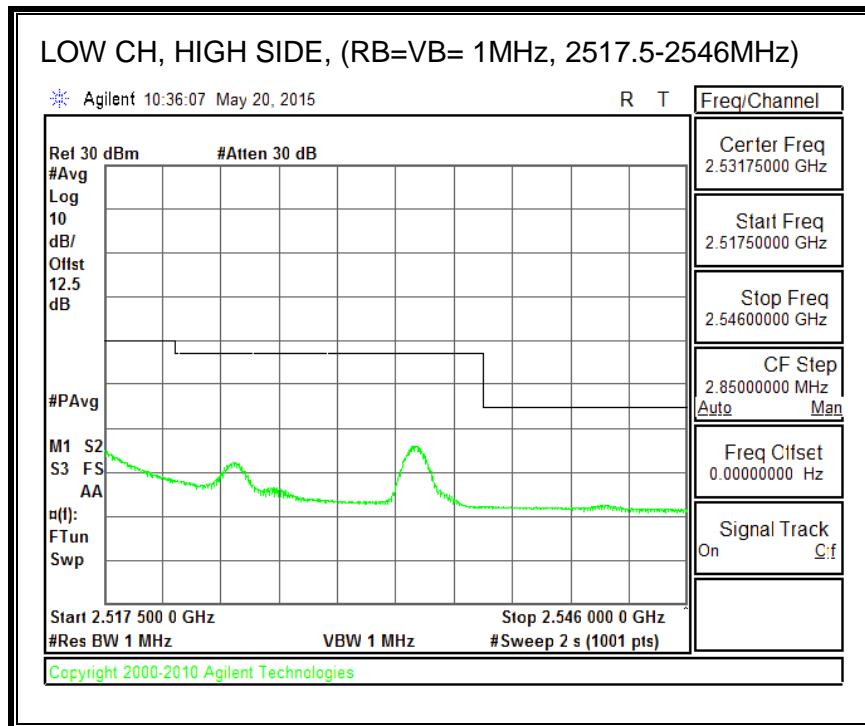


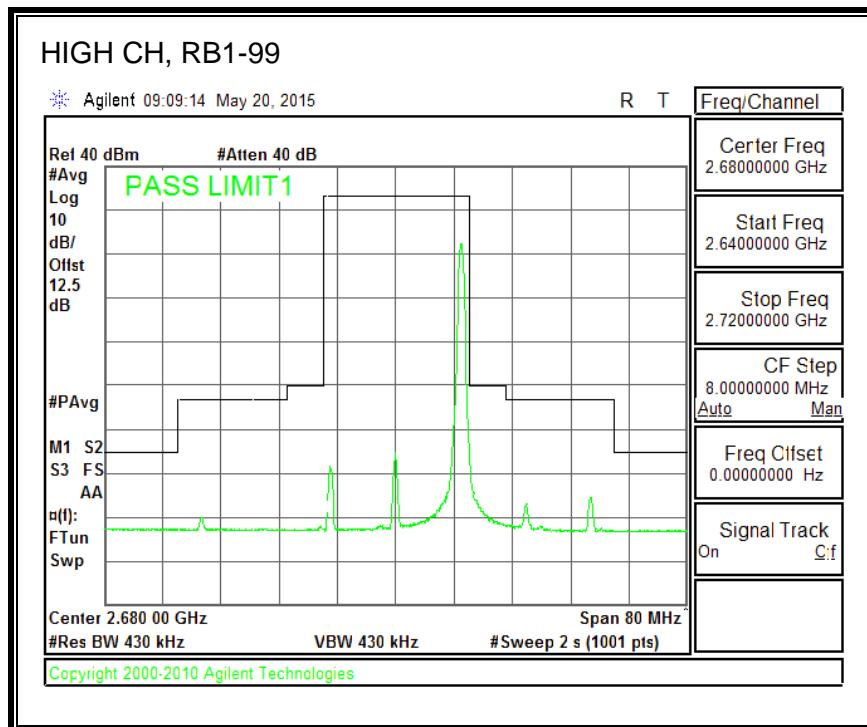
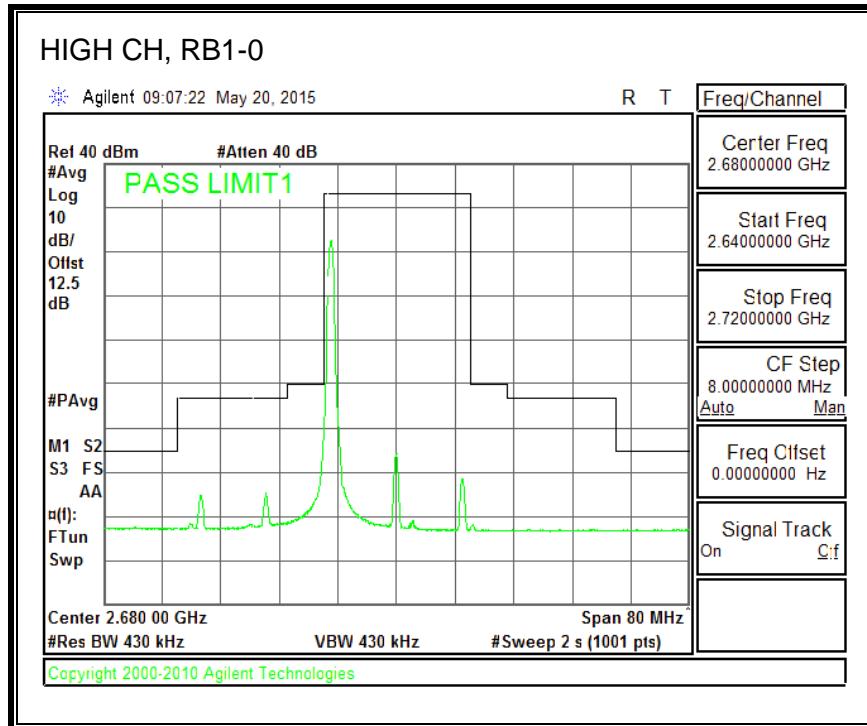


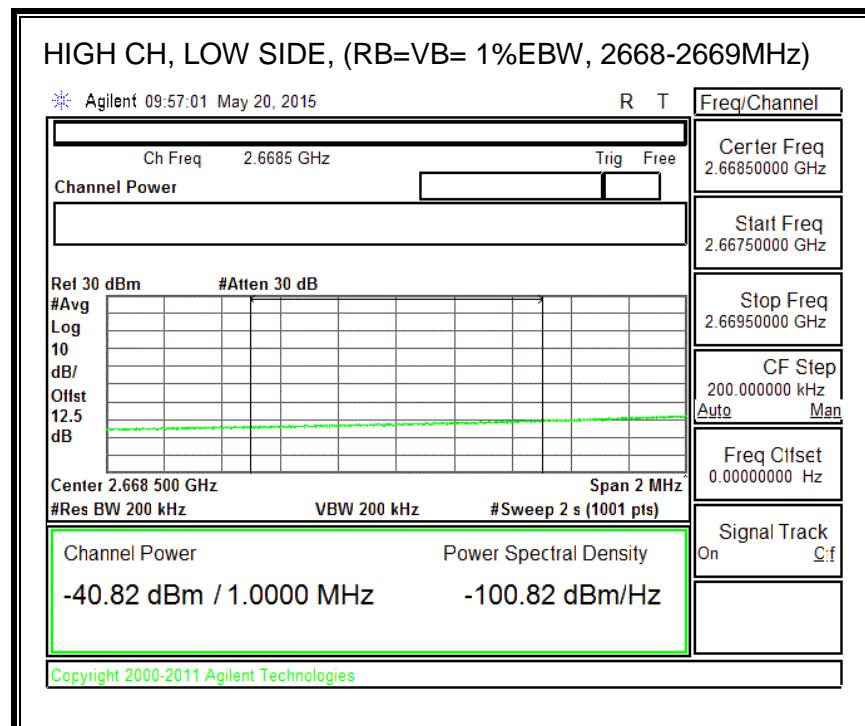
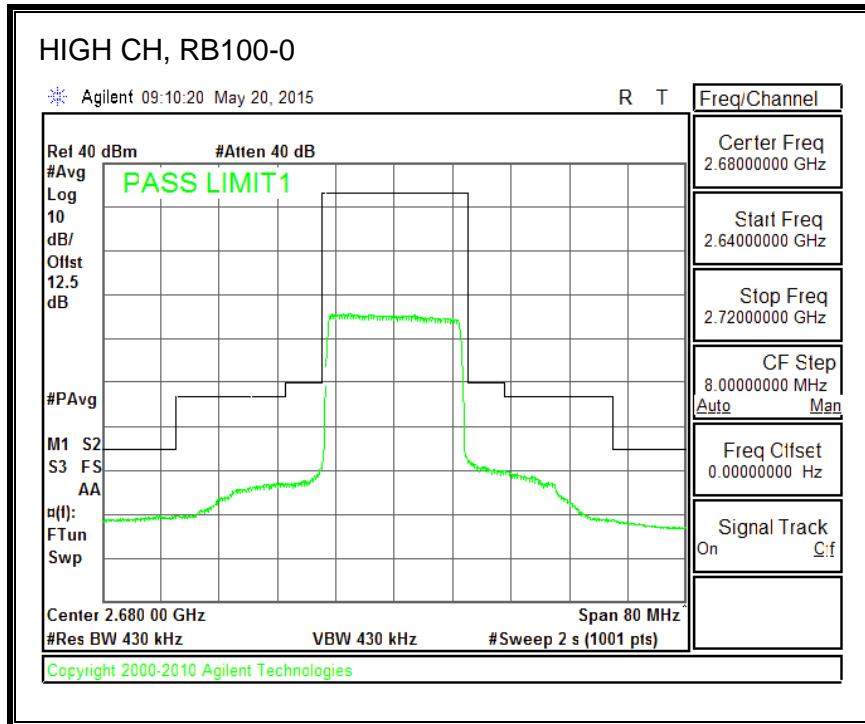
**16QAM, (20.0 MHz BAND WIDTH)**

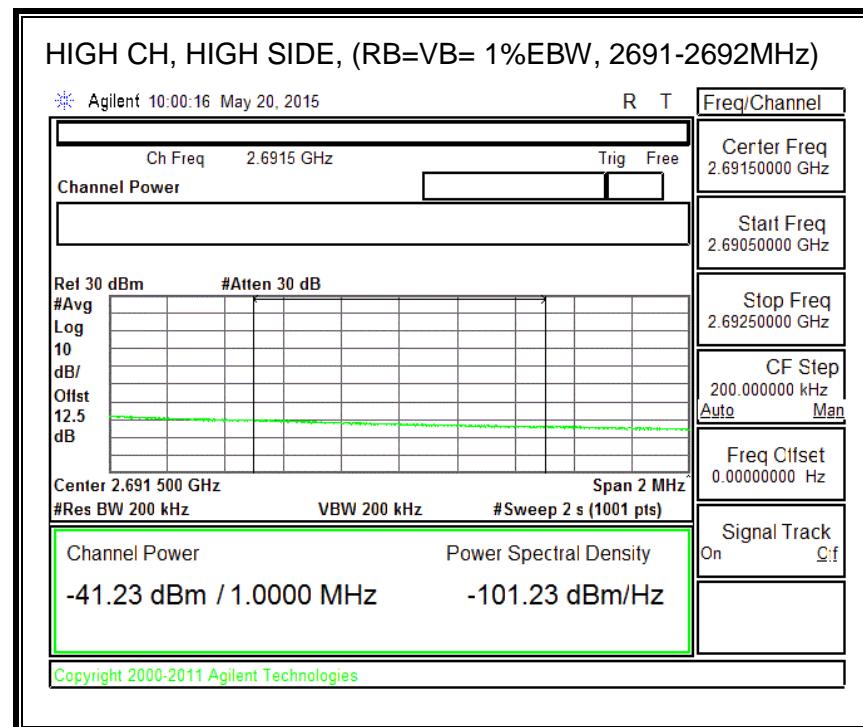
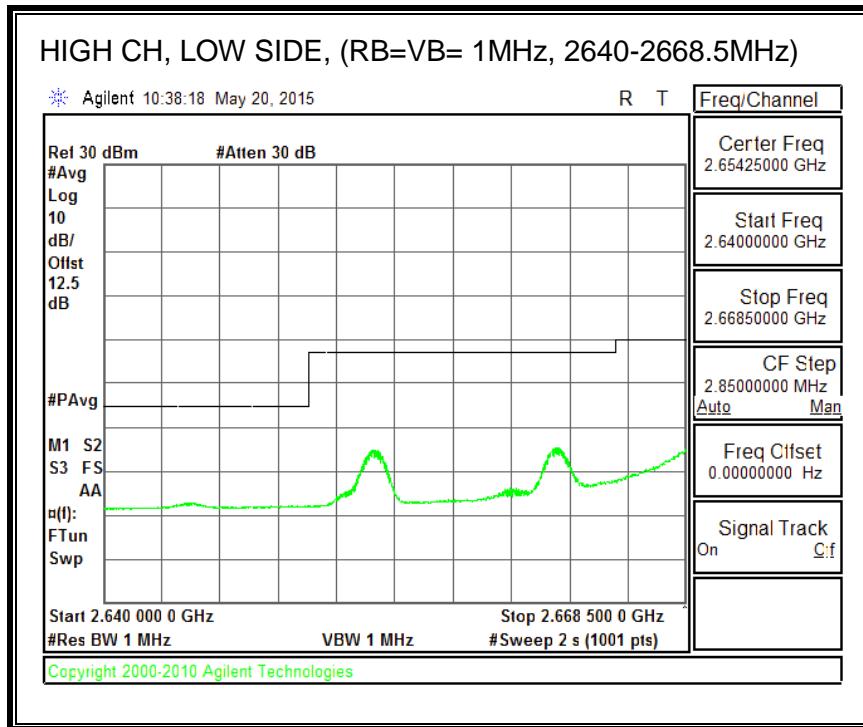


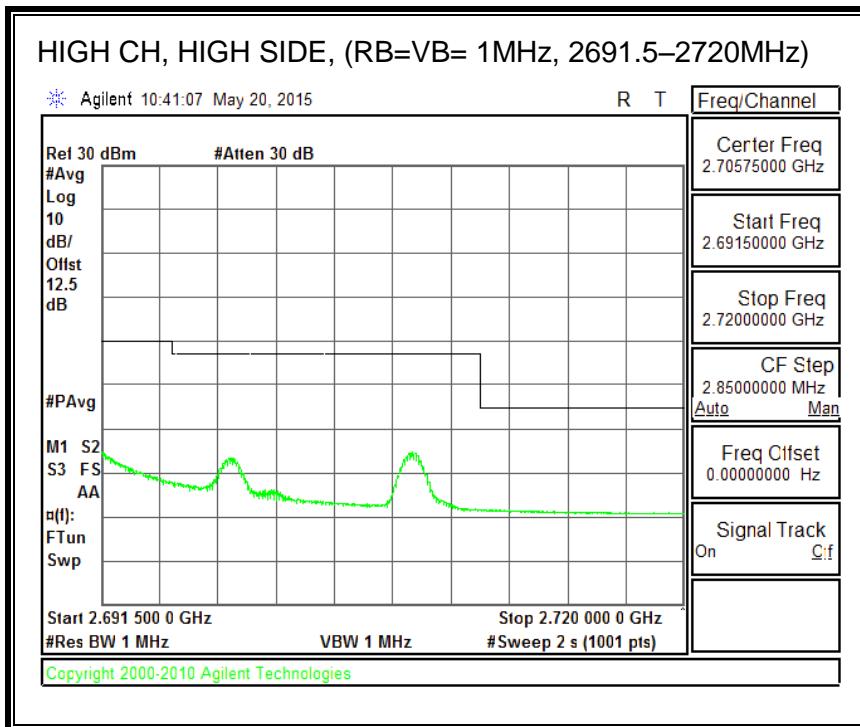












## 8.5. OUT OF BAND EMISSIONS (MODEL: A1633)

### RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238 and §27.53

### LIMITS

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

### TEST PROCEDURE

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

For each out of band emissions measurement:

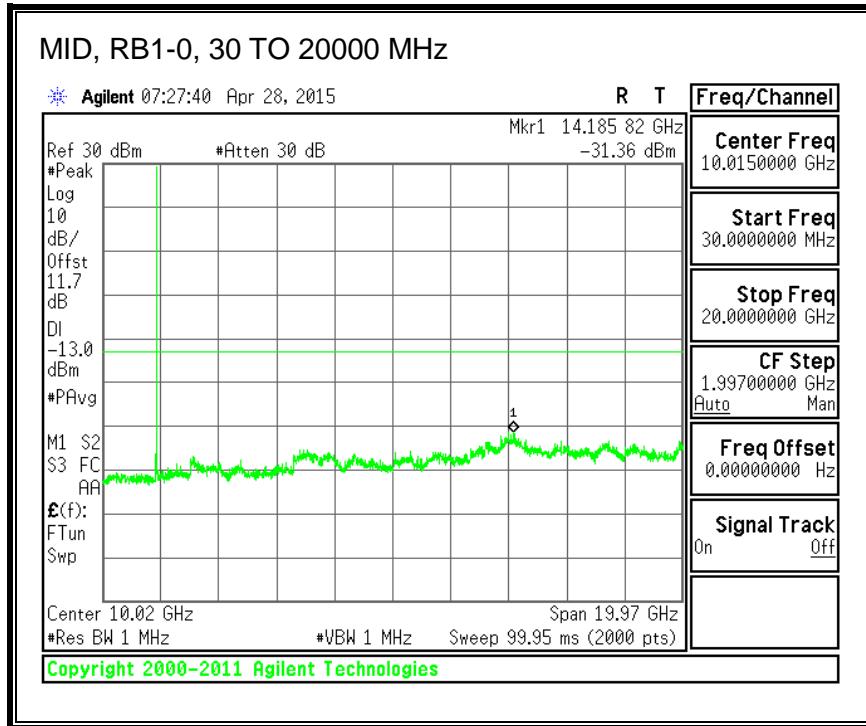
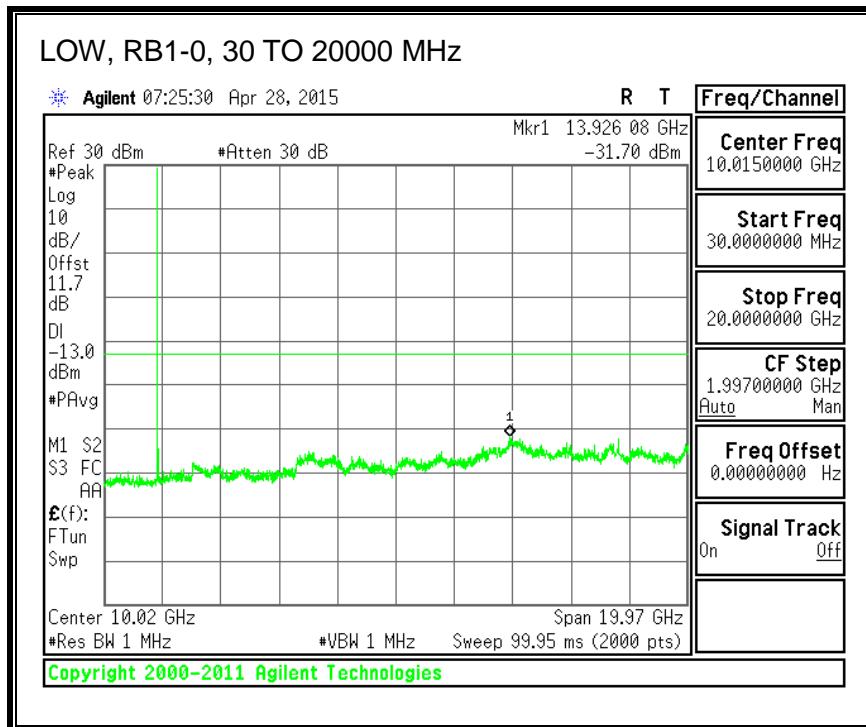
- Set display line at -13 dBm
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

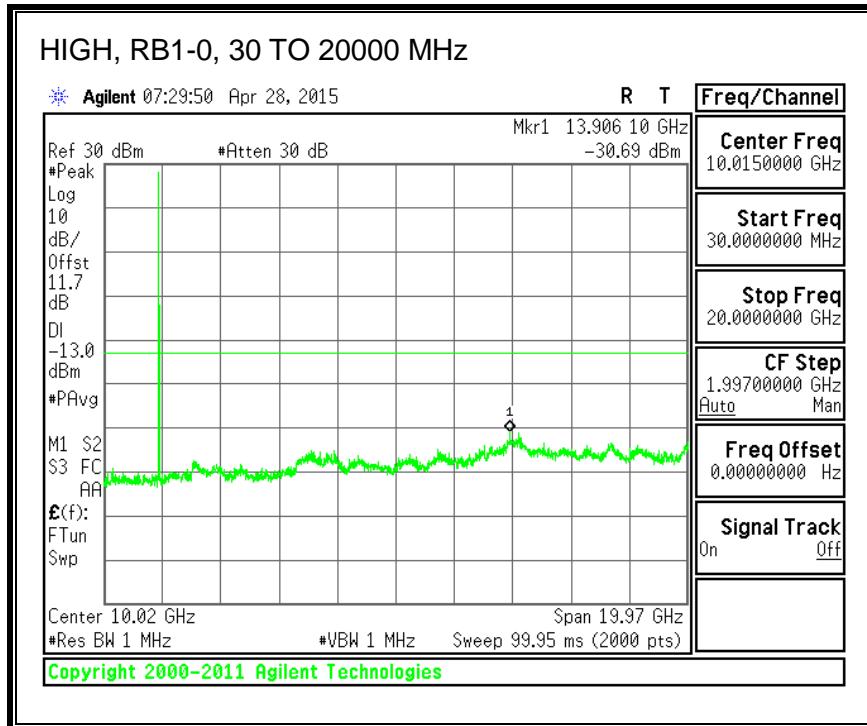
### MODES TESTED

- LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 13
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 30
- LTE Band 41

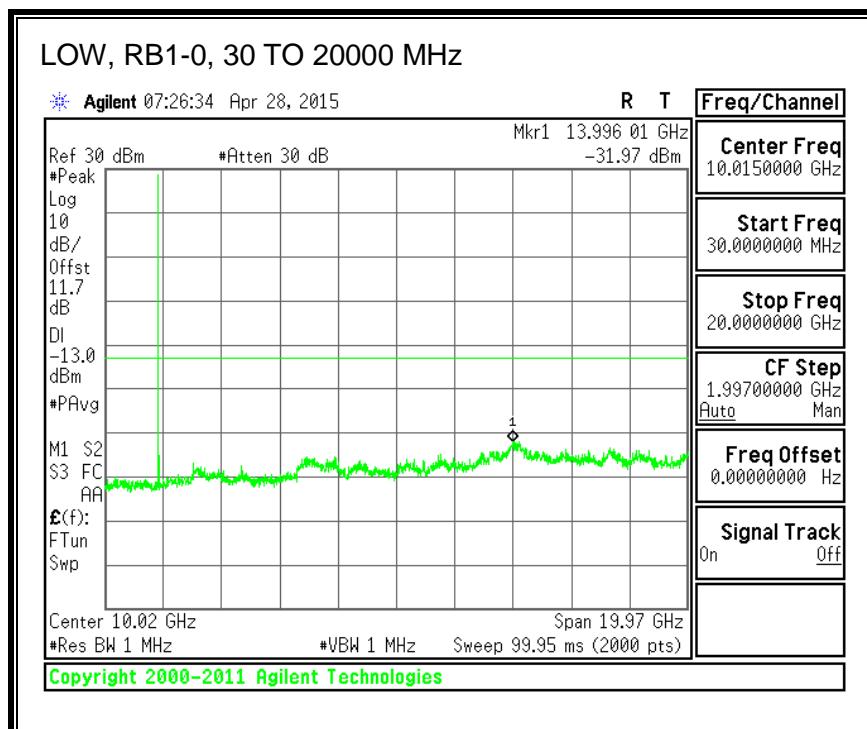
### 8.5.1. LTE BAND 2

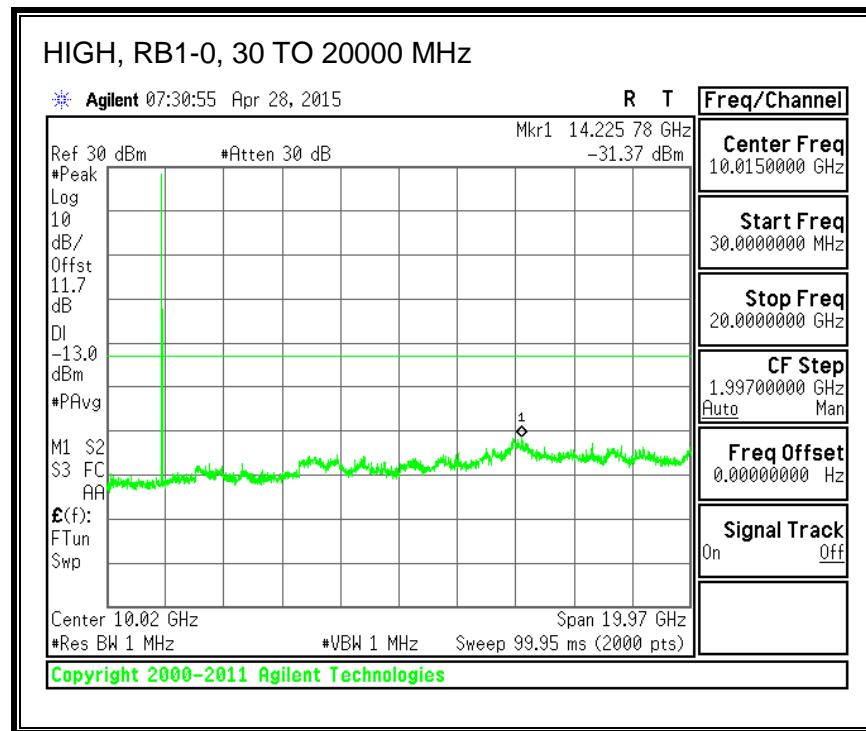
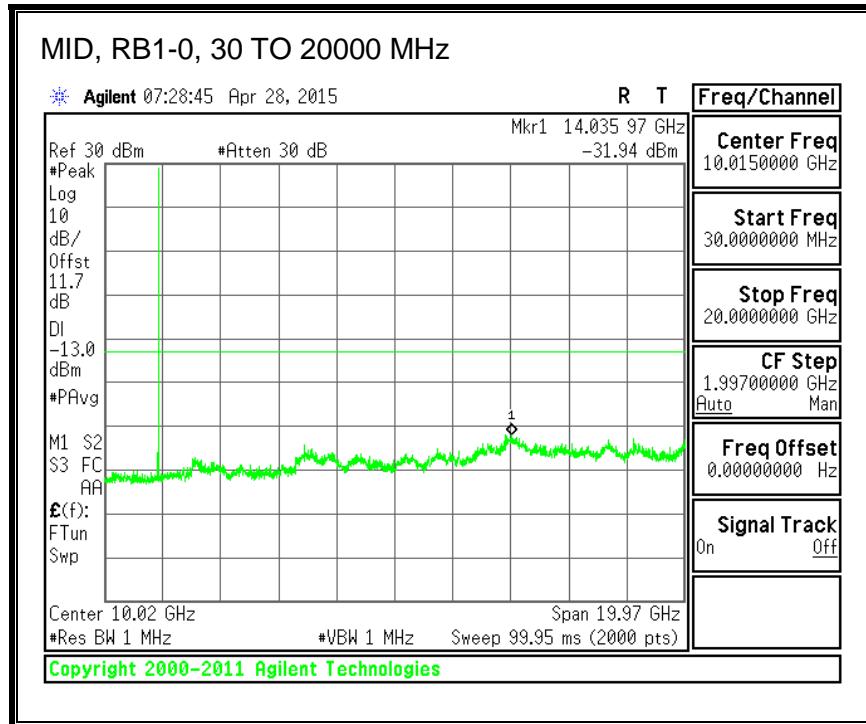
#### QPSK, (1.4 MHz BAND WIDTH)

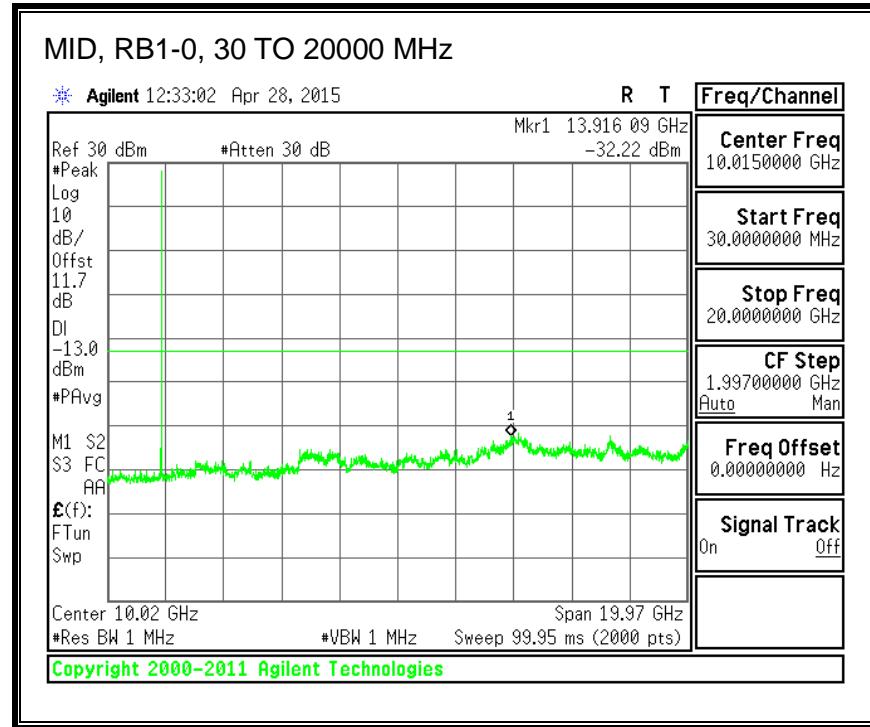
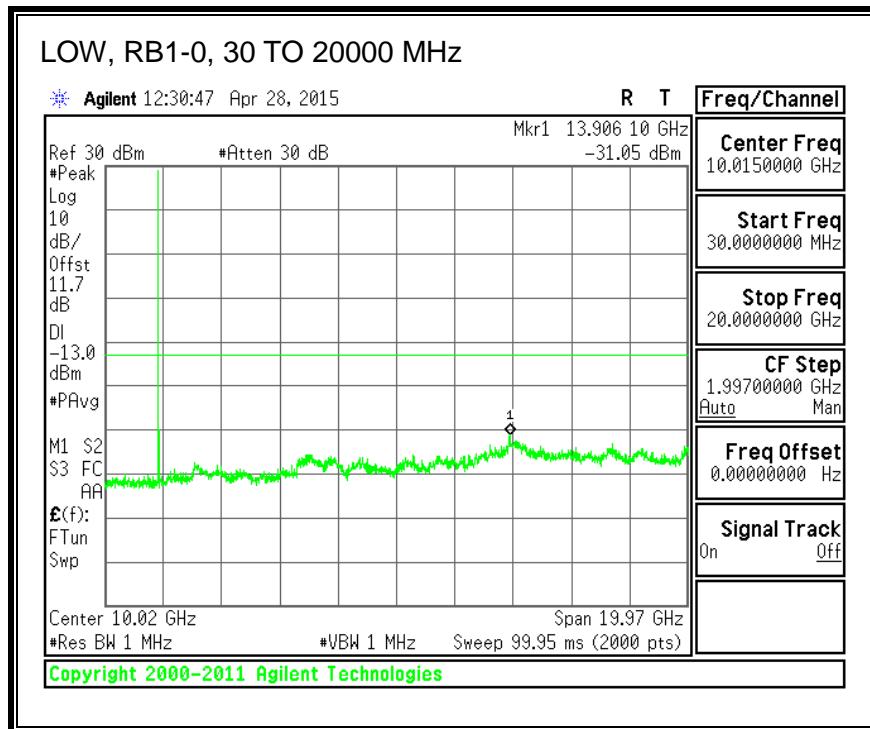


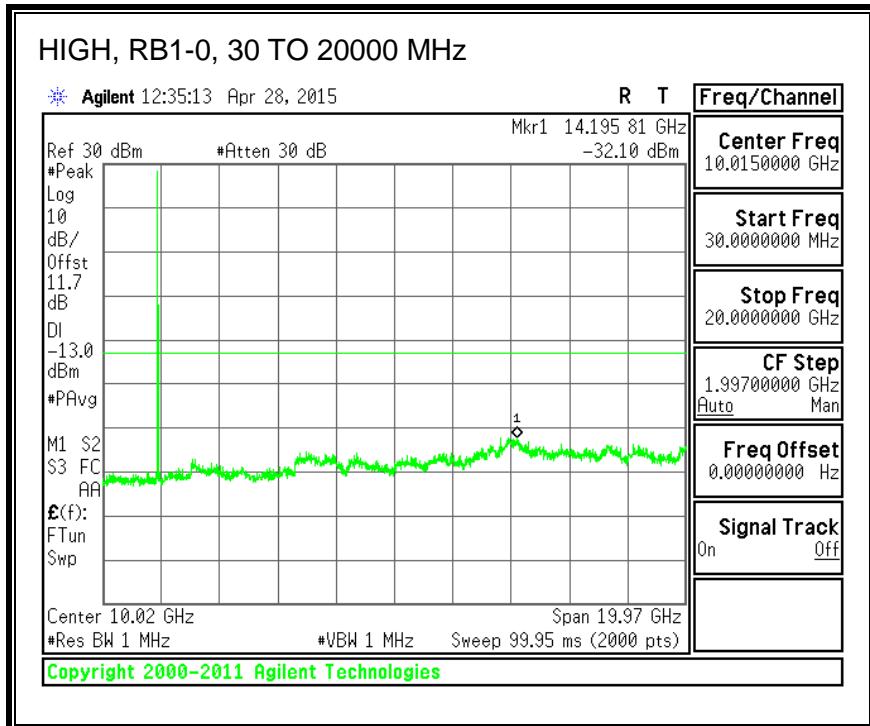
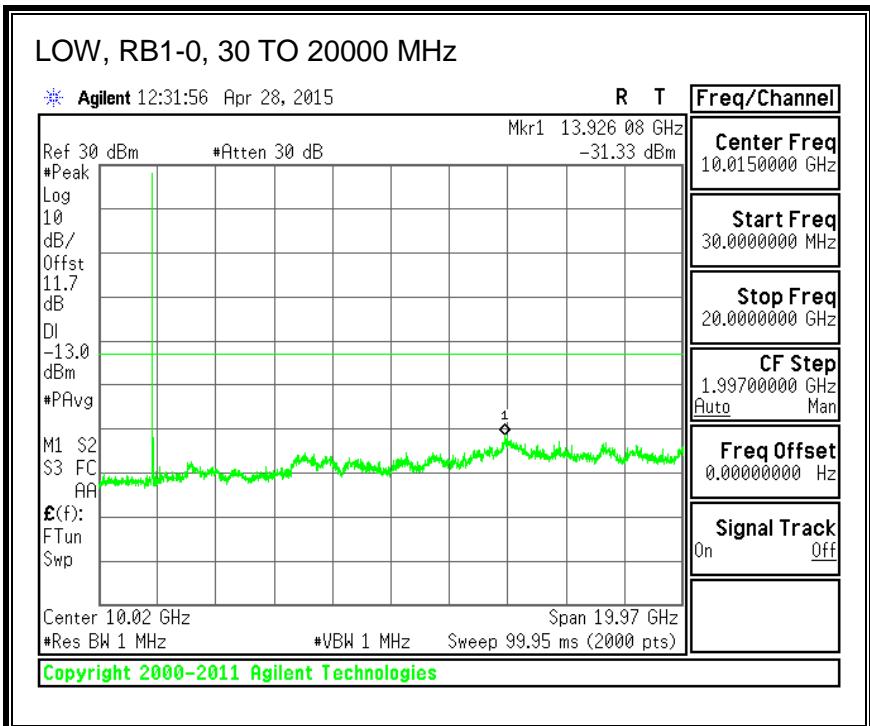


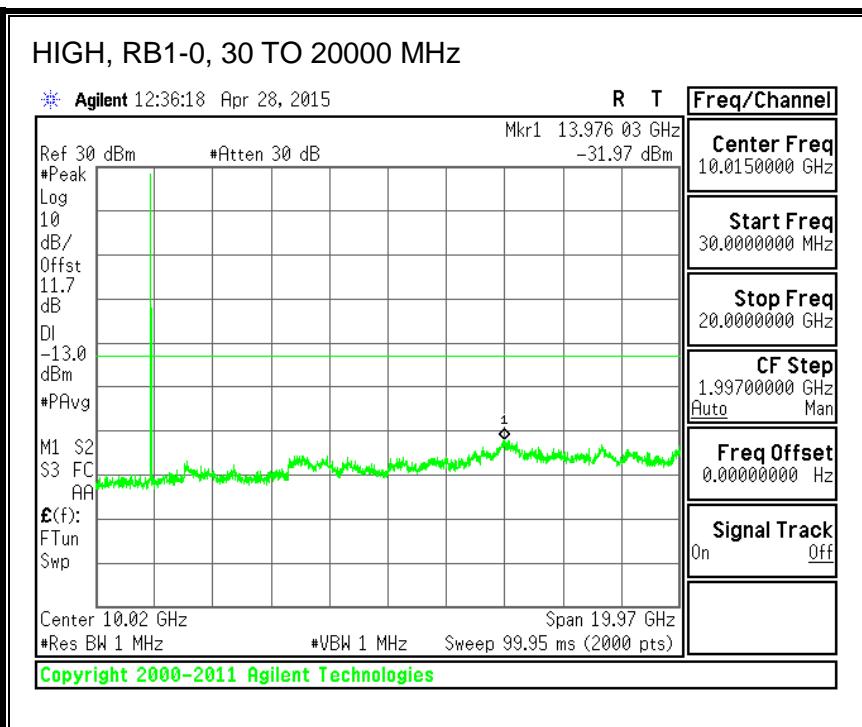
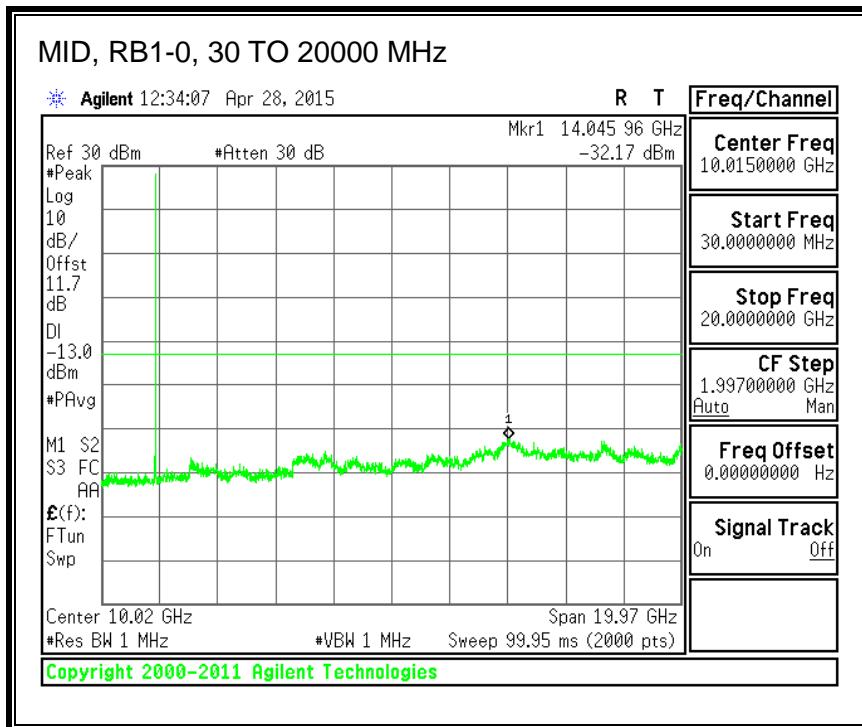
### 16QAM, (1.4 MHz BAND WIDTH)

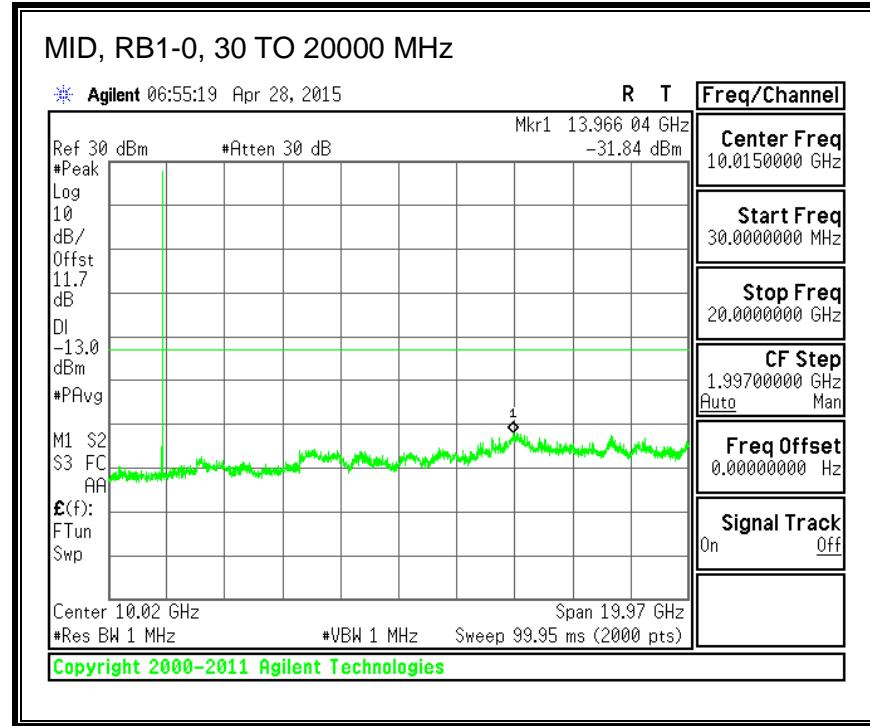
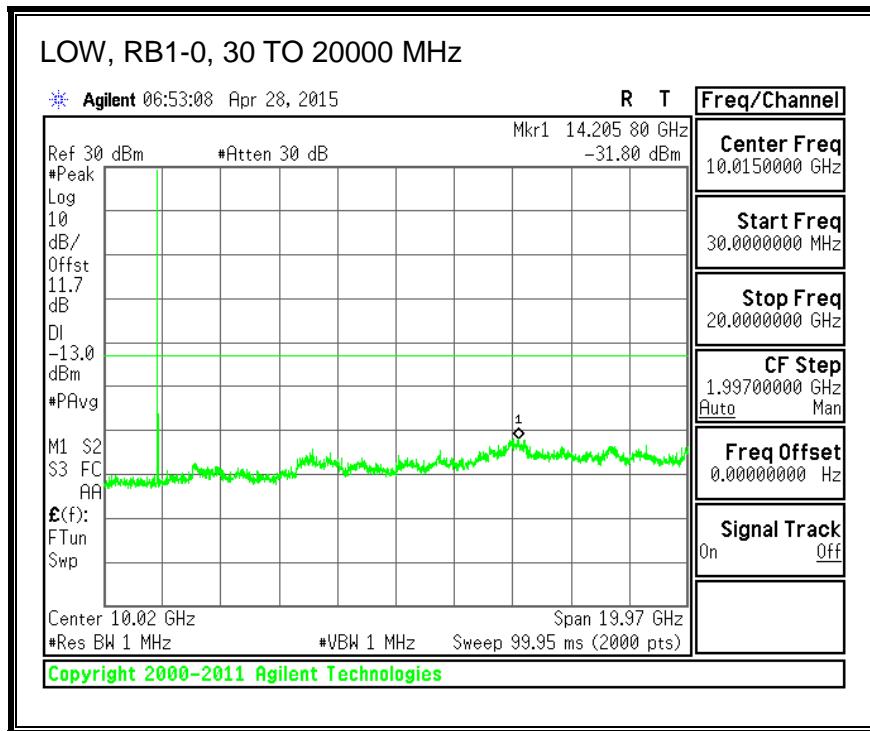


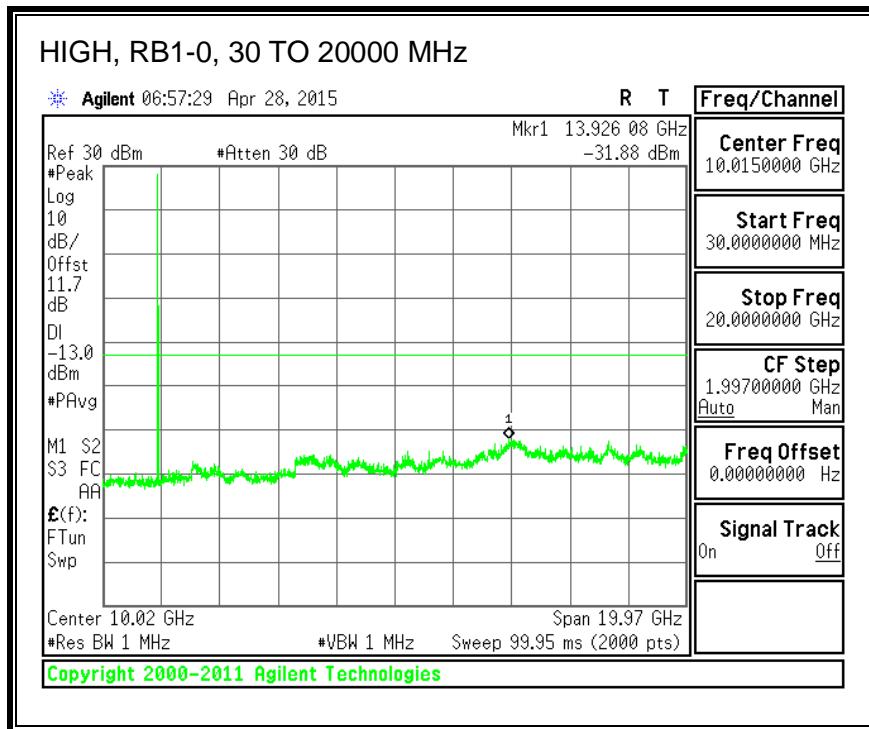
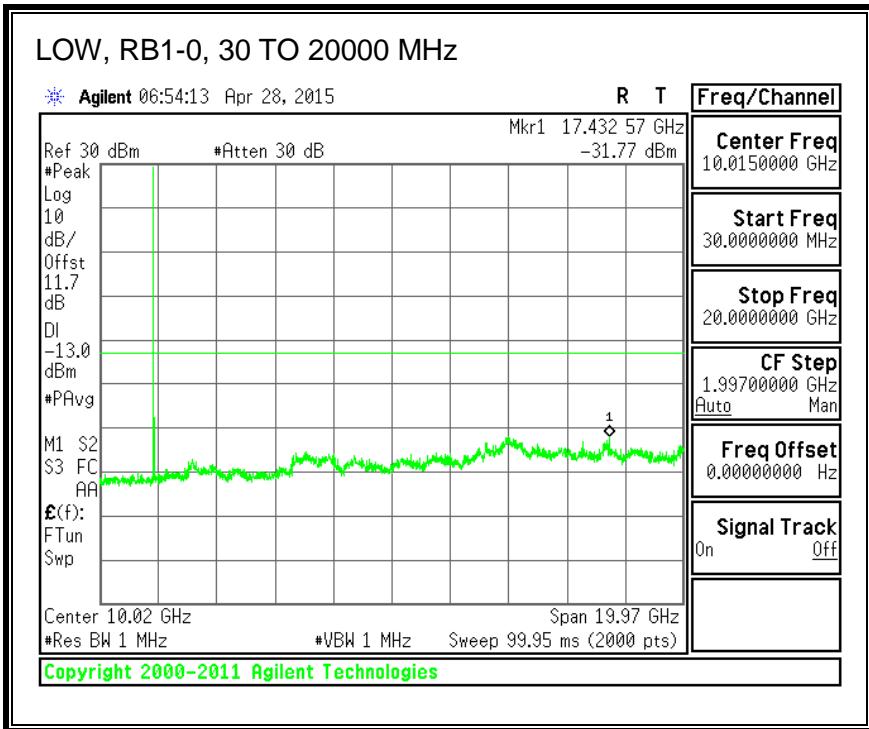


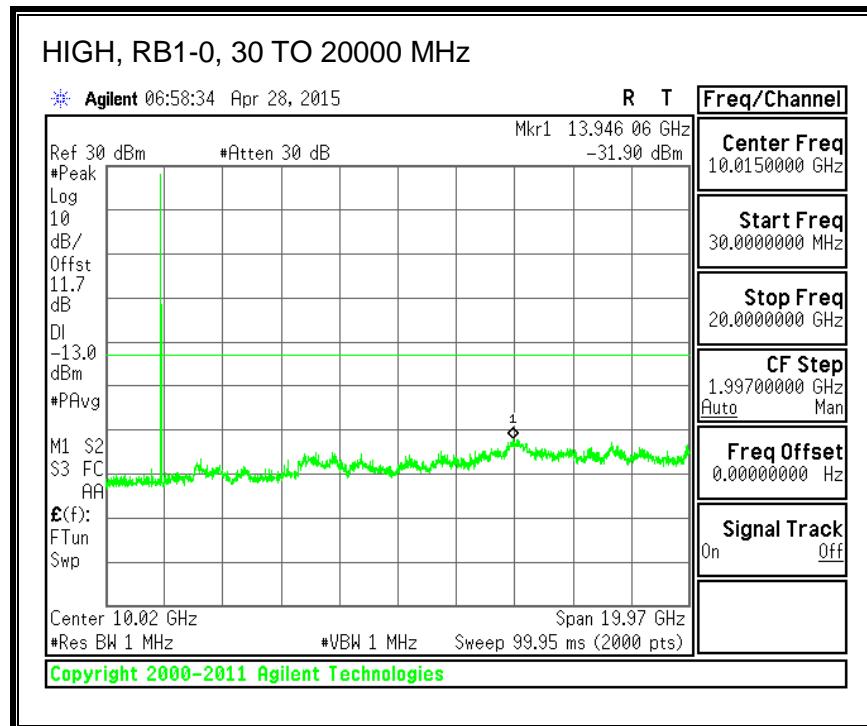
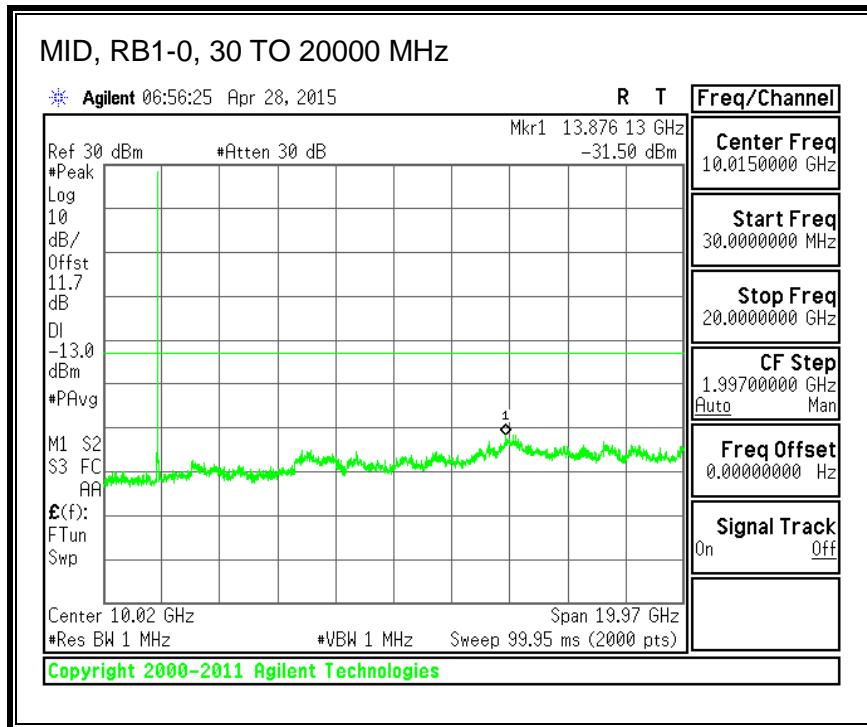
**QPSK, (3.0 MHz BAND WIDTH)**

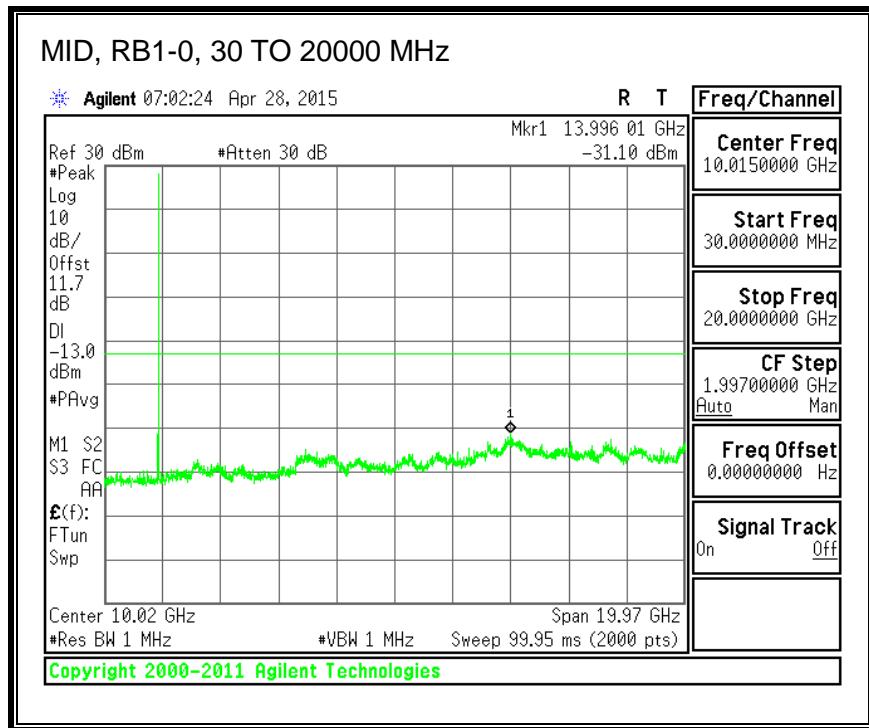
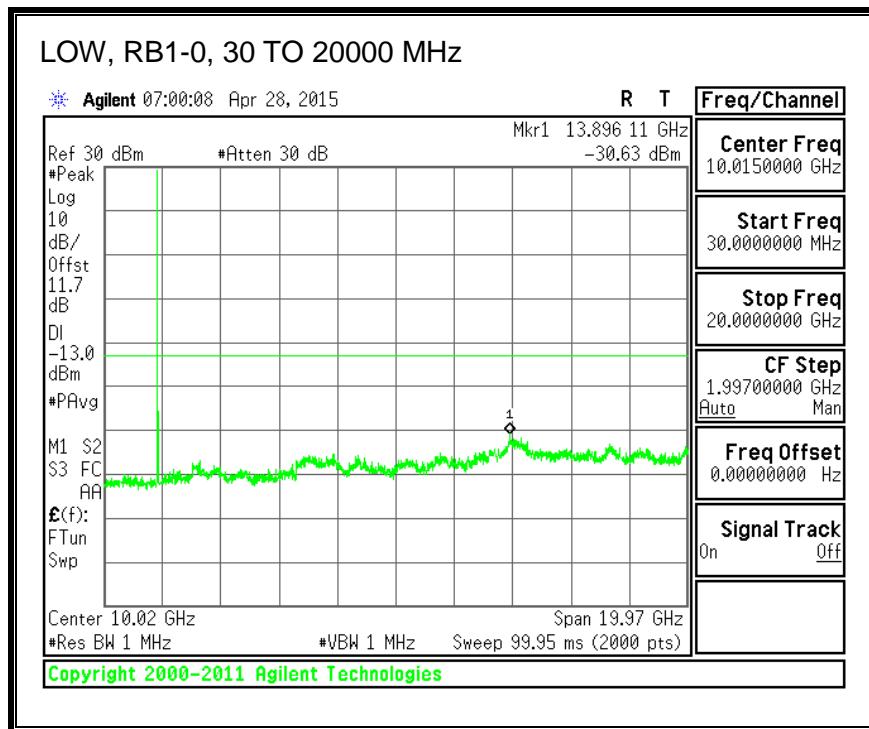
**16QAM, (3.0 MHz BAND WIDTH)**



**QPSK, (5.0 MHz BAND WIDTH)**

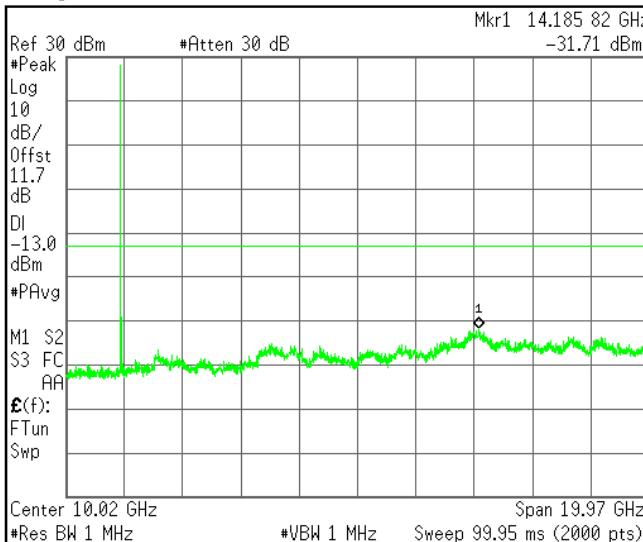
**16QAM, (5.0 MHz BAND WIDTH)**



**QPSK, (10.0 MHz BAND WIDTH)**

## HIGH, RB1-0, 30 TO 20000 MHz

\* Agilent 07:04:36 Apr 28, 2015



R T Freq/Channel

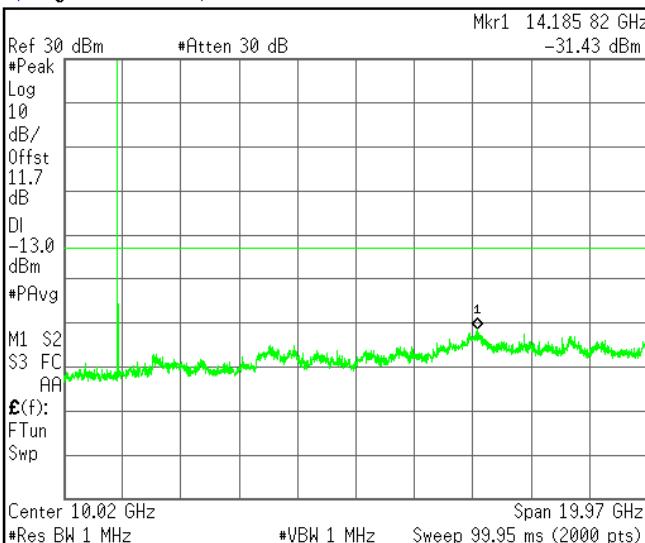
Center Freq  
10.0150000 GHzStart Freq  
30.0000000 MHzStop Freq  
20.0000000 GHzCF Step  
1.99700000 GHz  
Auto ManFreq Offset  
0.00000000 HzSignal Track  
On Off

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16QAM, (10.0 MHz BAND WIDTH)

## LOW, RB1-0, 30 TO 20000 MHz

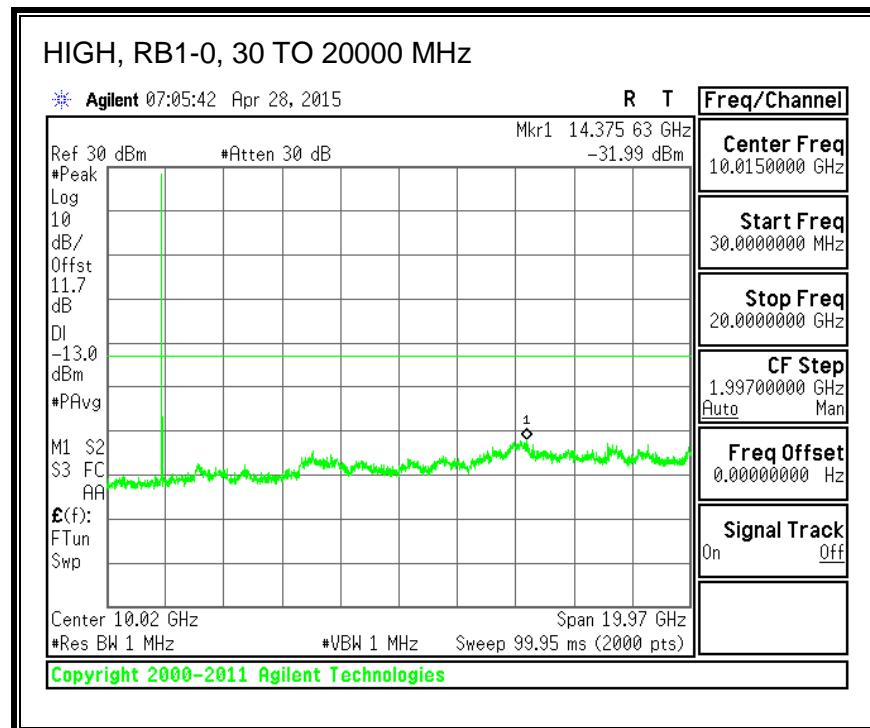
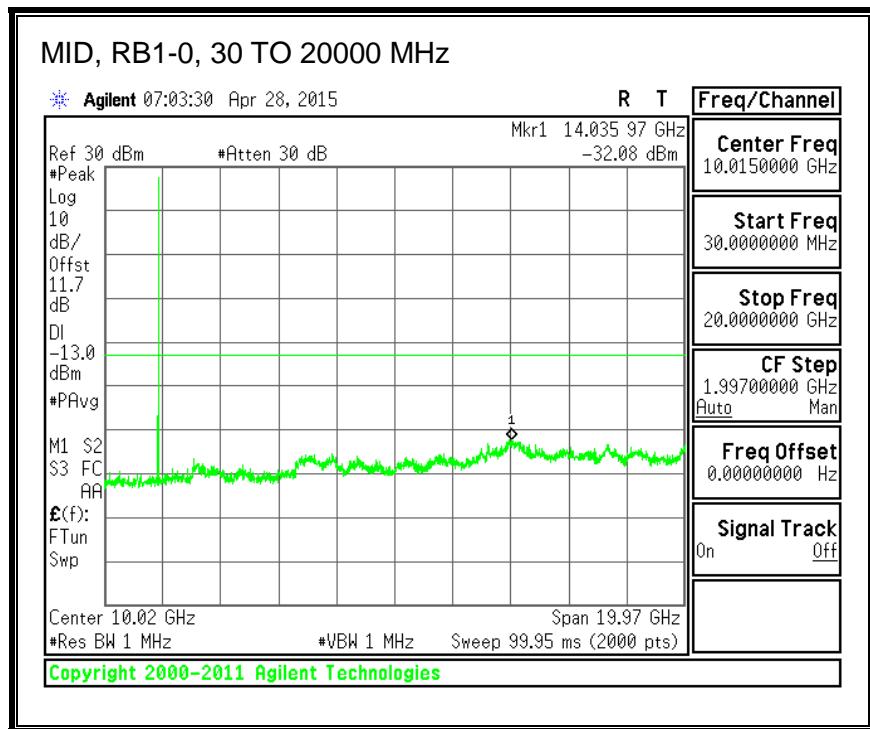
\* Agilent 07:01:18 Apr 28, 2015

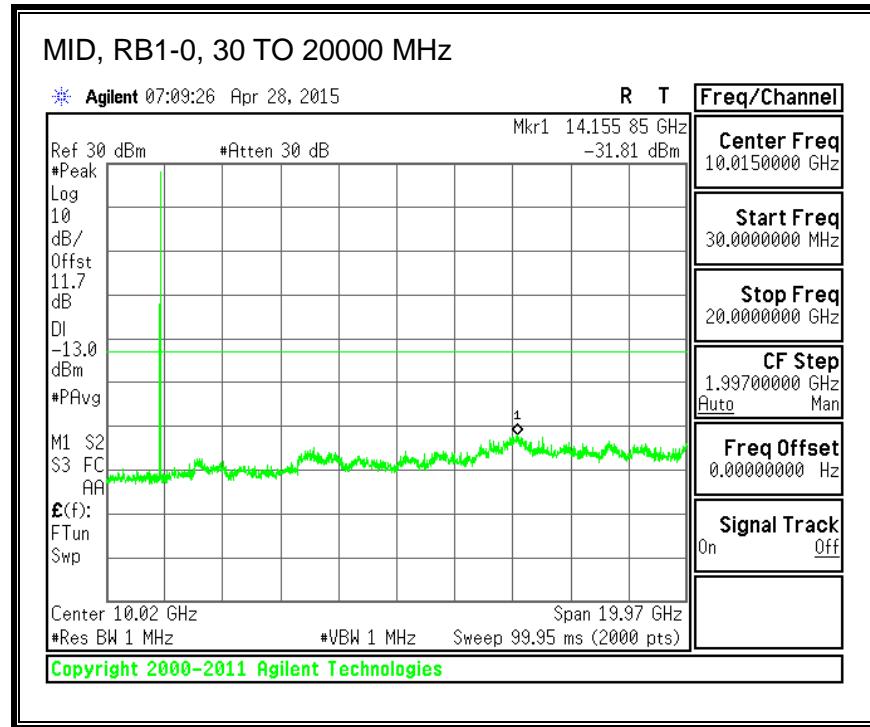
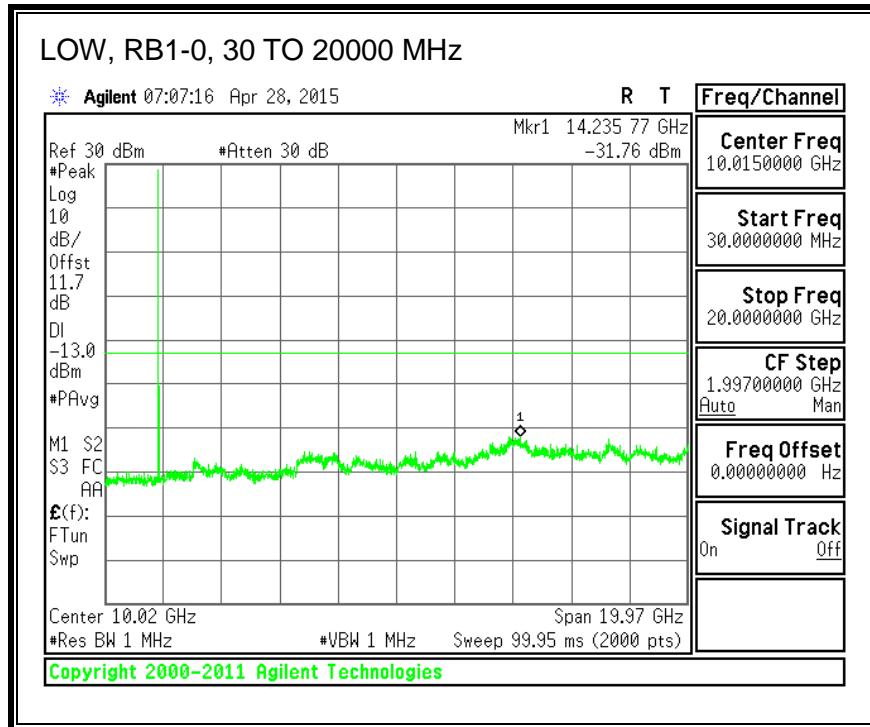


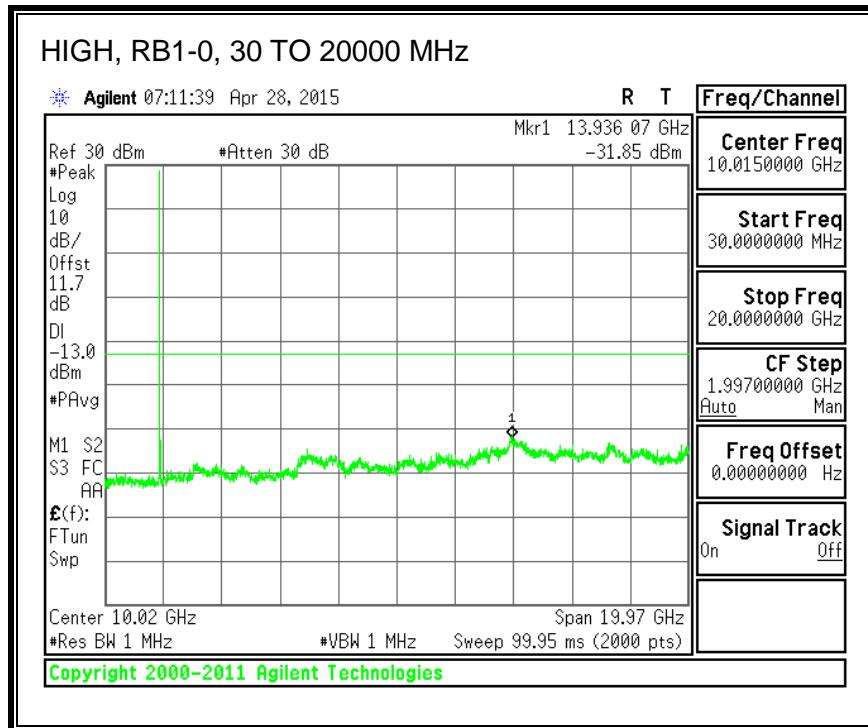
R T Freq/Channel

Center Freq  
10.0150000 GHzStart Freq  
30.0000000 MHzStop Freq  
20.0000000 GHzCF Step  
1.99700000 GHz  
Auto ManFreq Offset  
0.00000000 HzSignal Track  
On Off

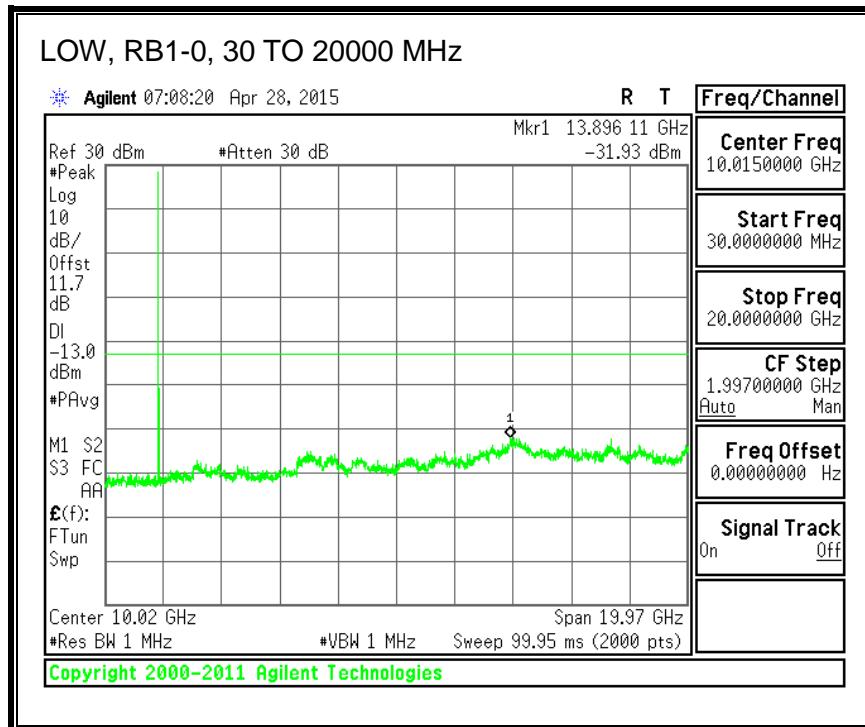
Copyright 2000-2011 Agilent Technologies

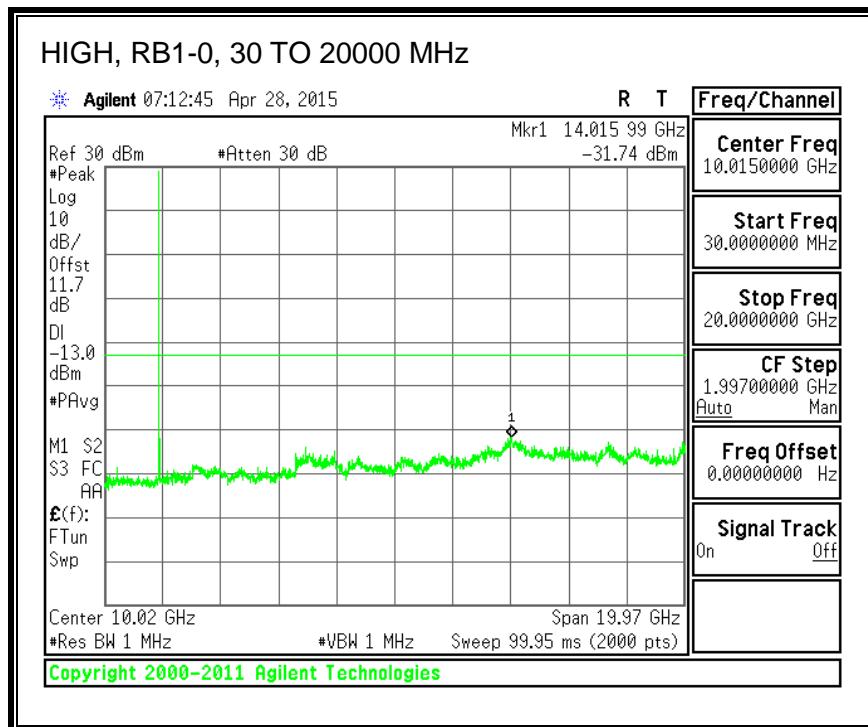
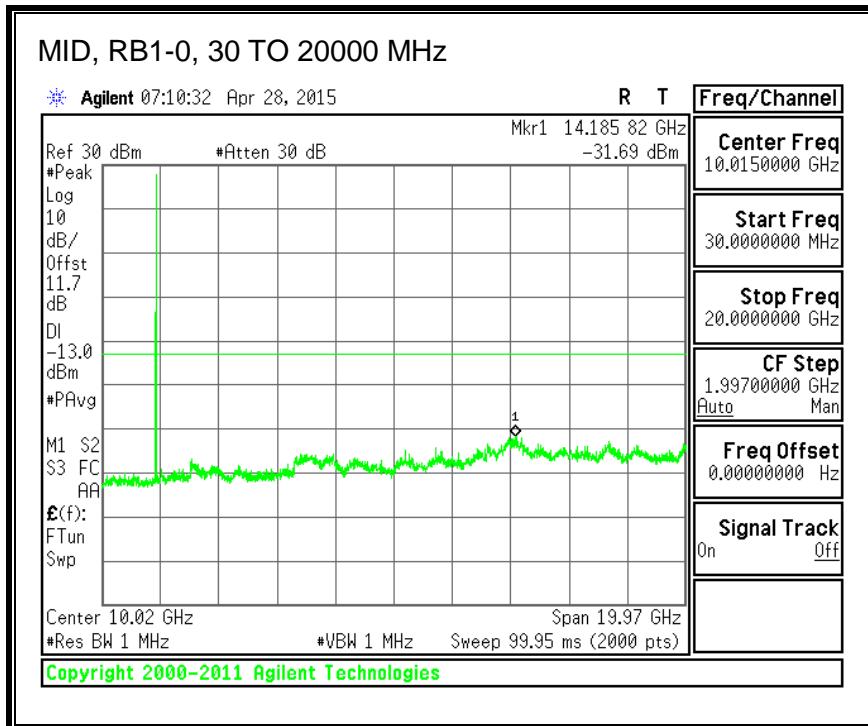


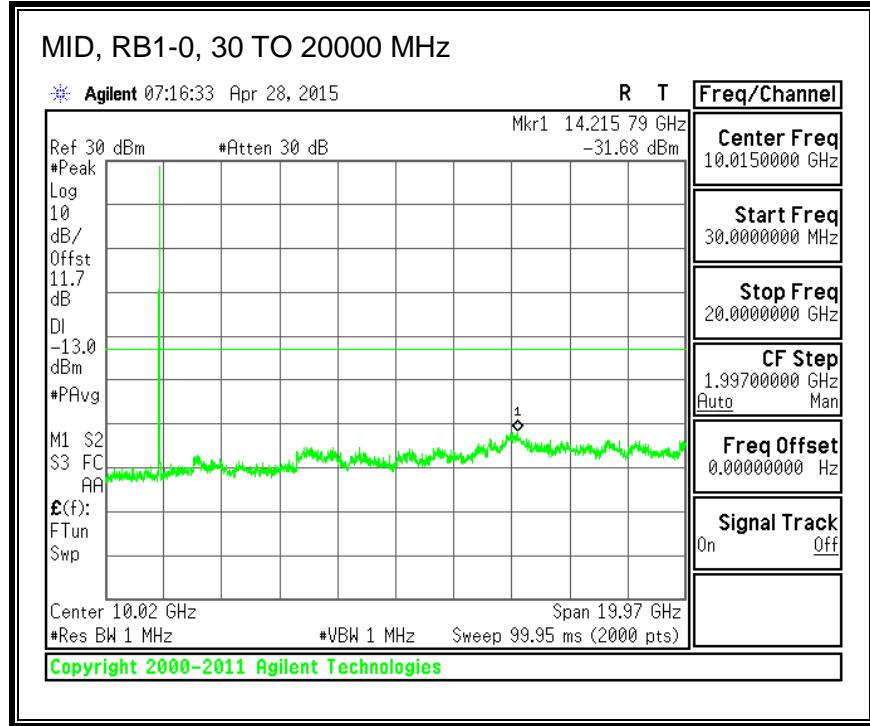
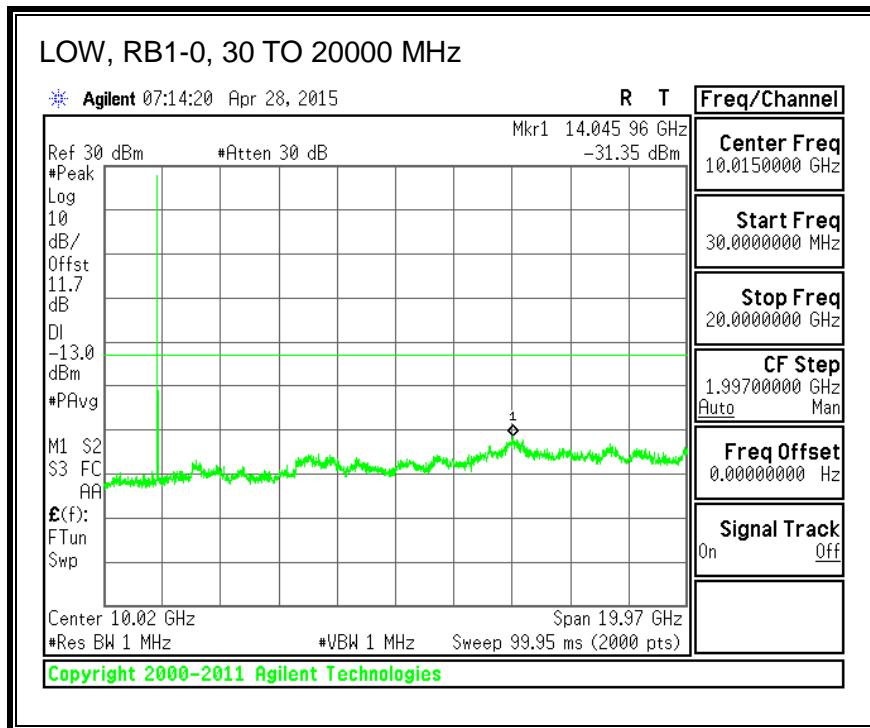
**QPSK, (15.0 MHz BAND WIDTH)**

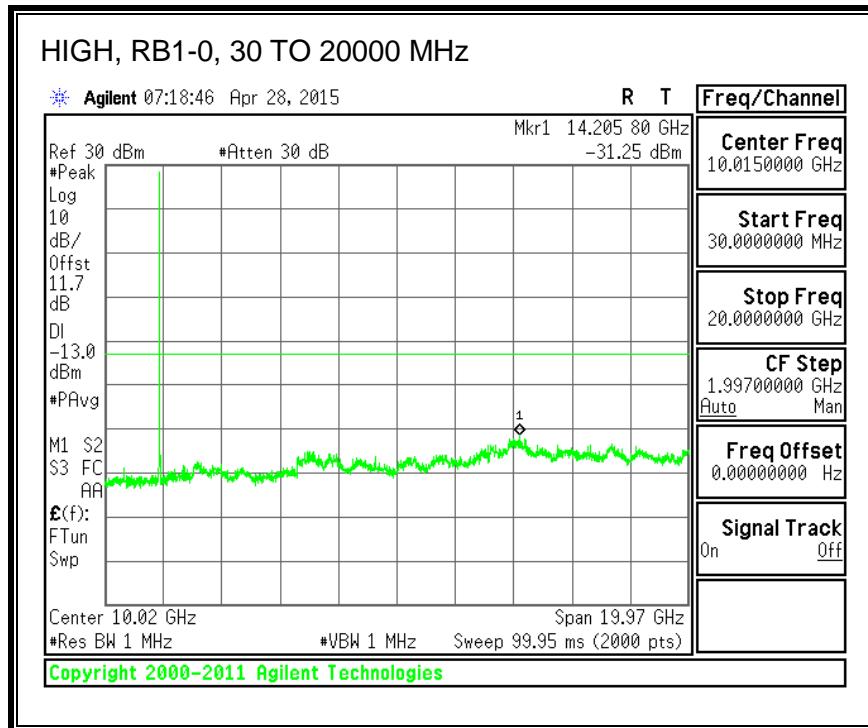


### 16QAM, (15.0 MHz BAND WIDTH)

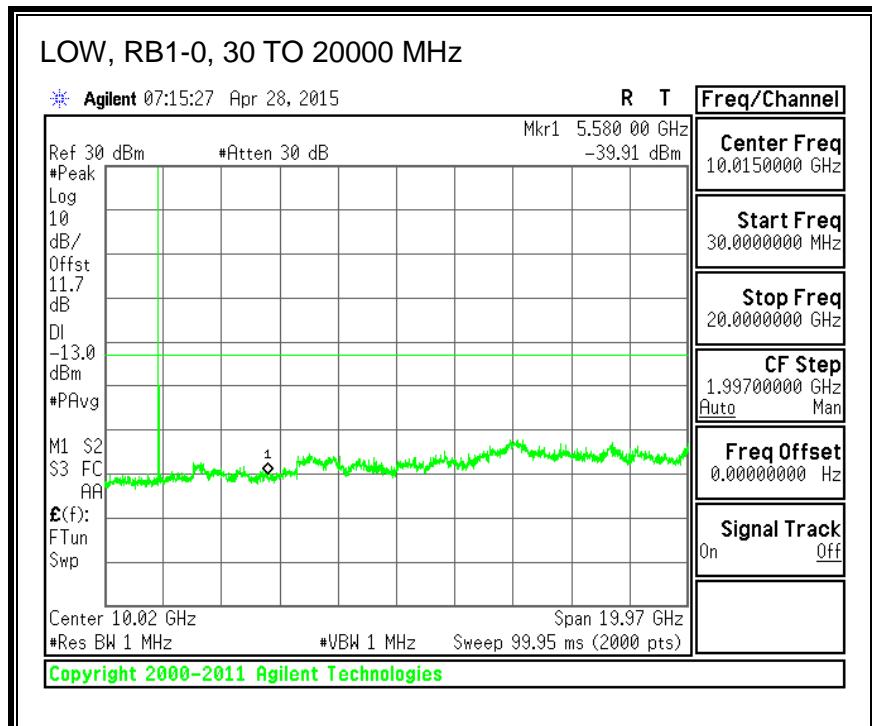


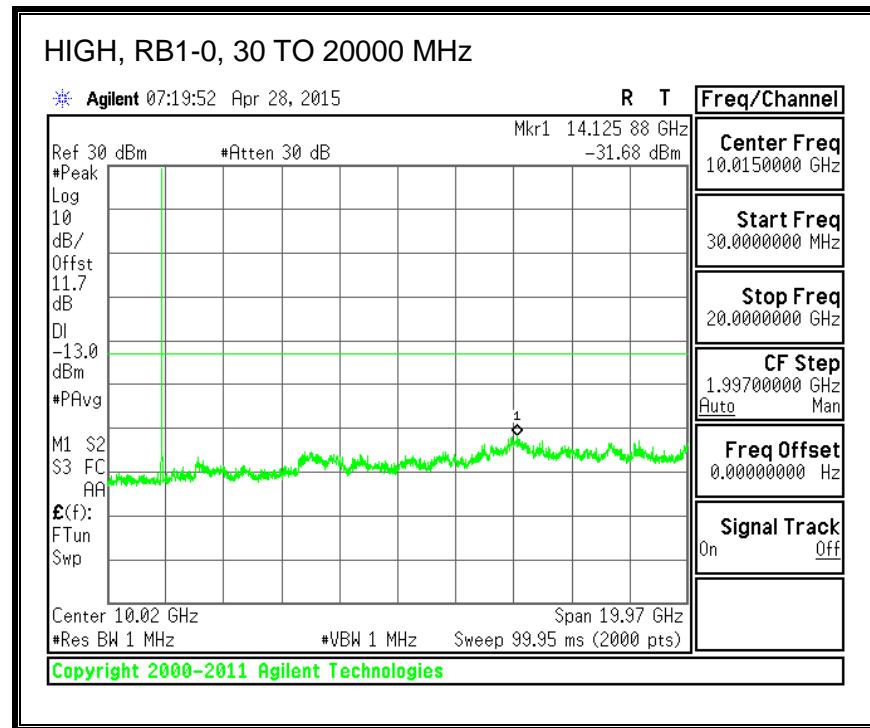
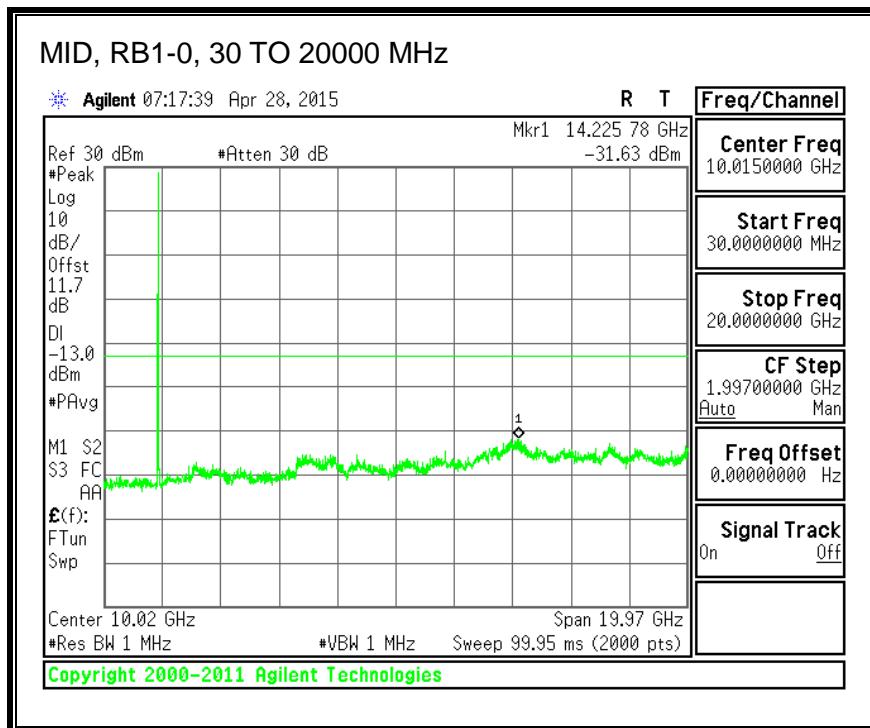


**QPSK, (20.0 MHz BAND WIDTH)**



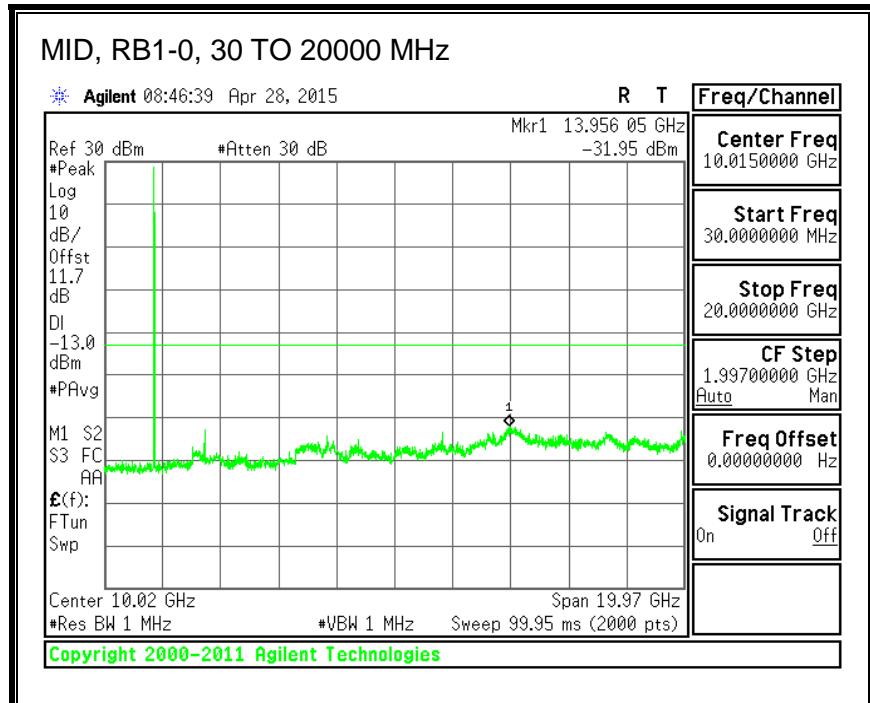
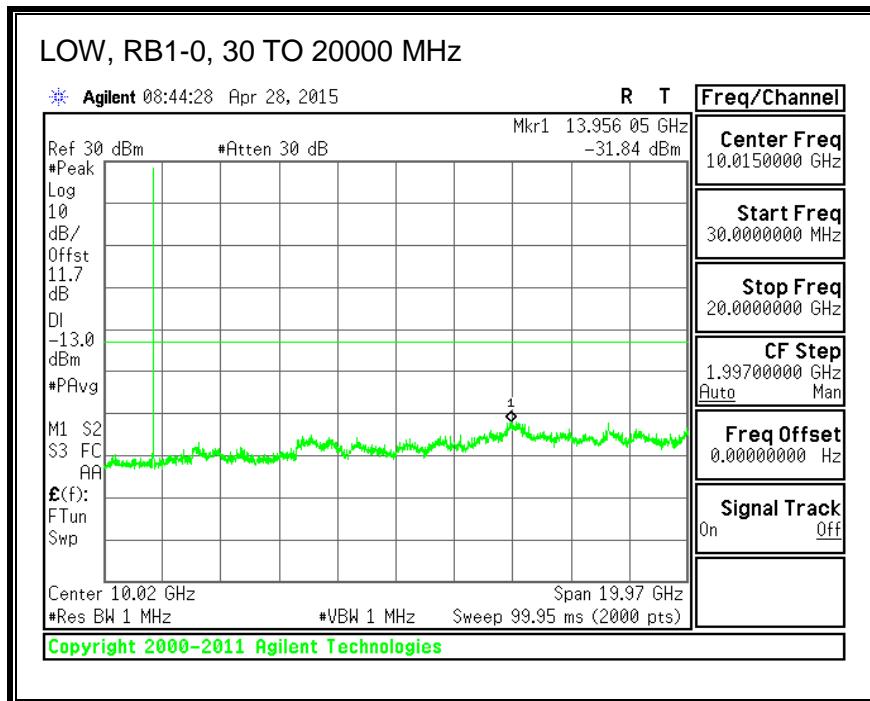
### 16QAM, (20.0 MHz BAND WIDTH)

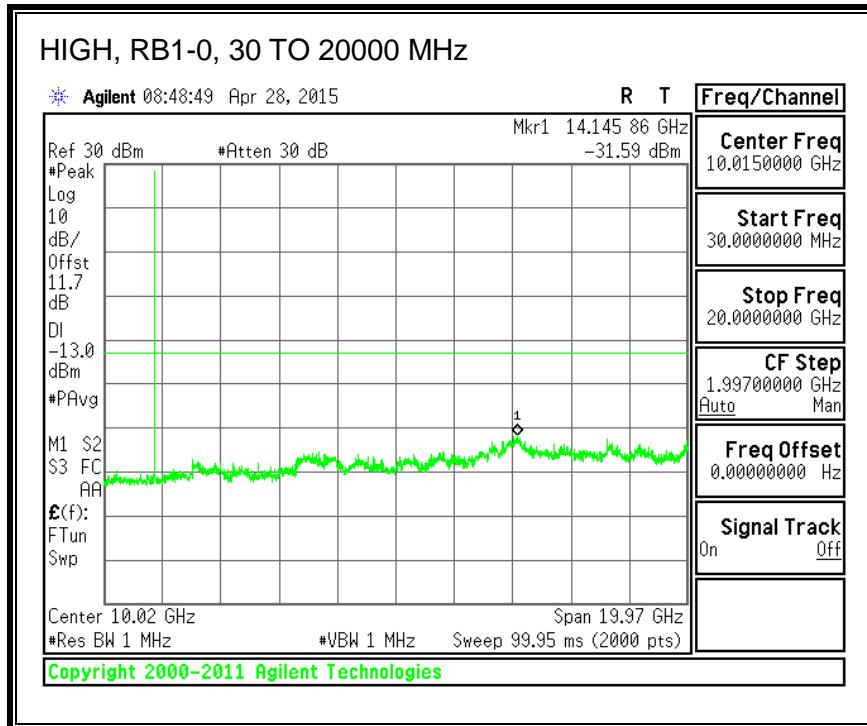




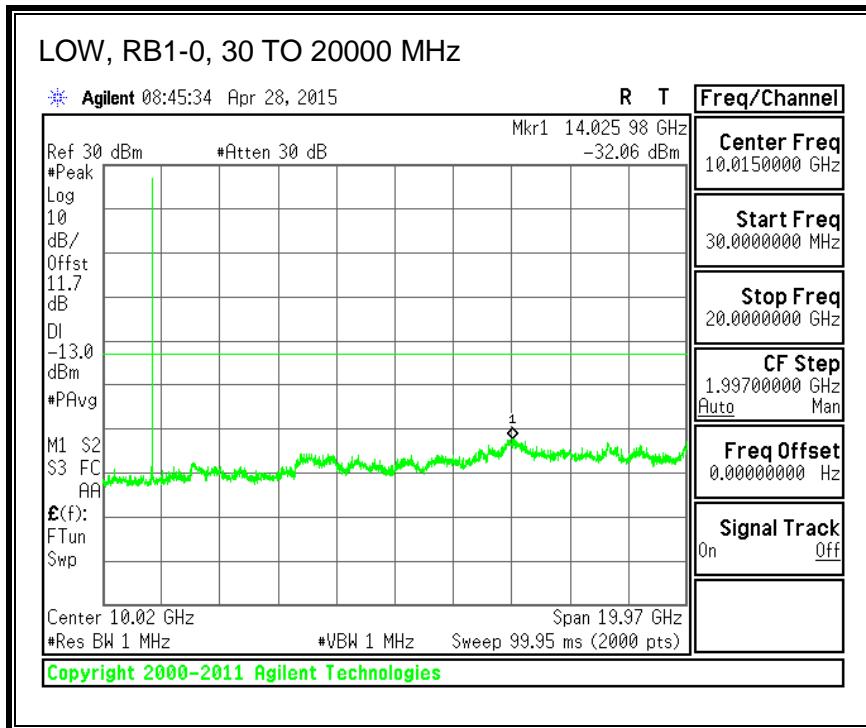
### 8.5.2. LTE BAND 4

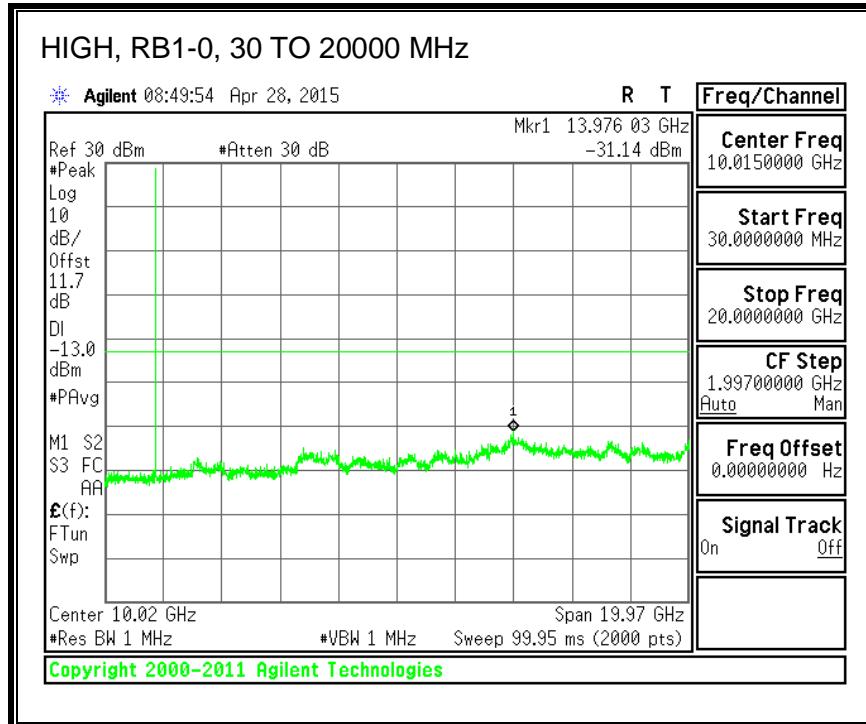
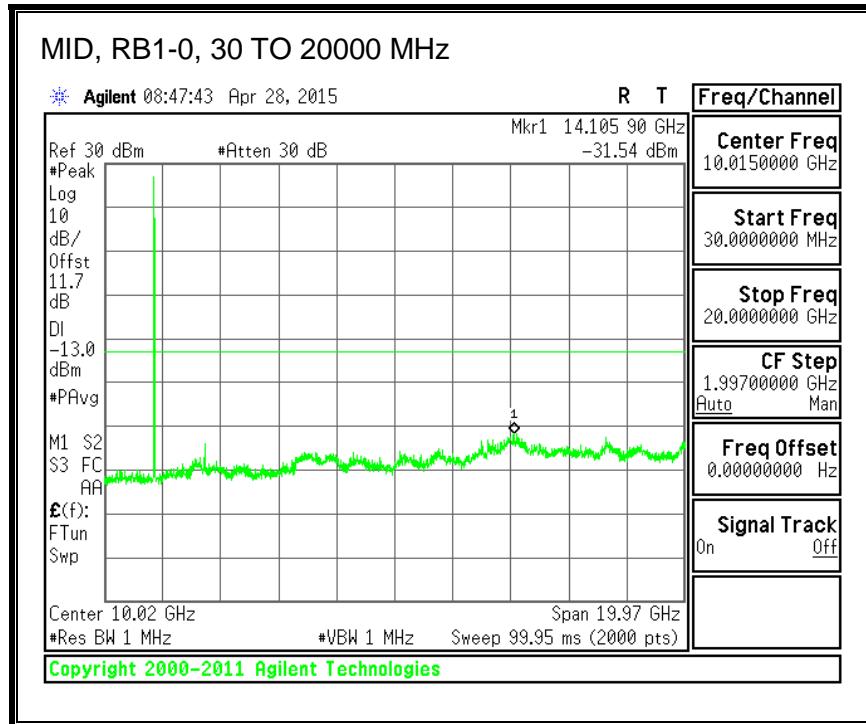
#### QPSK, (1.4 MHz BAND WIDTH)

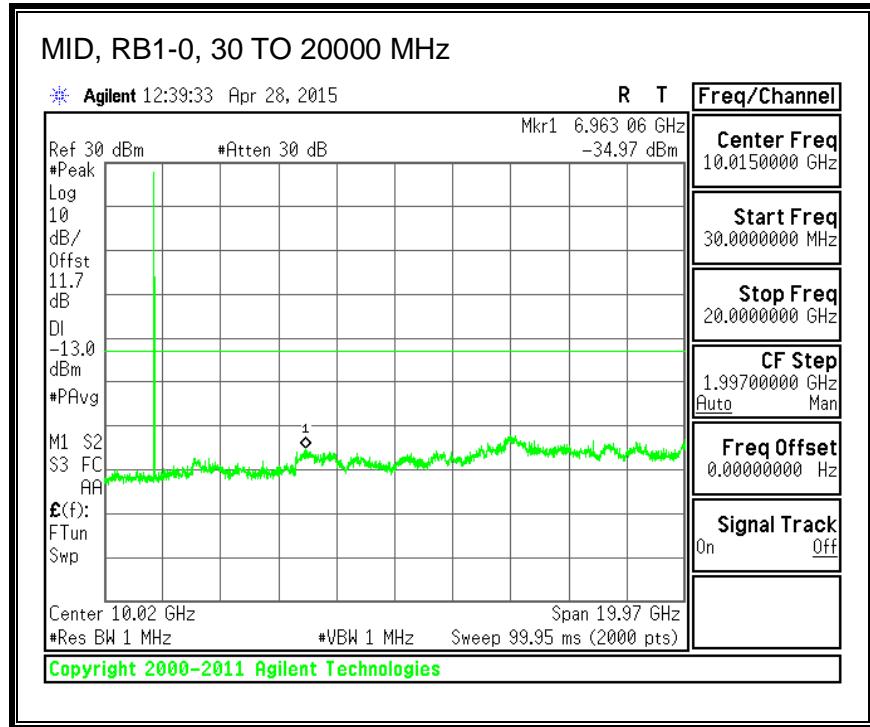
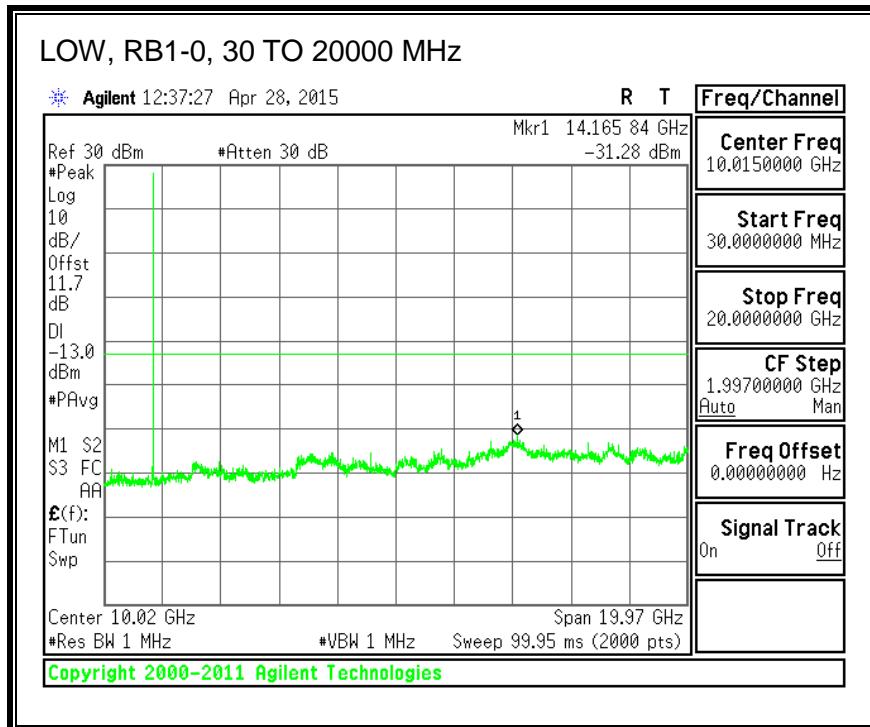


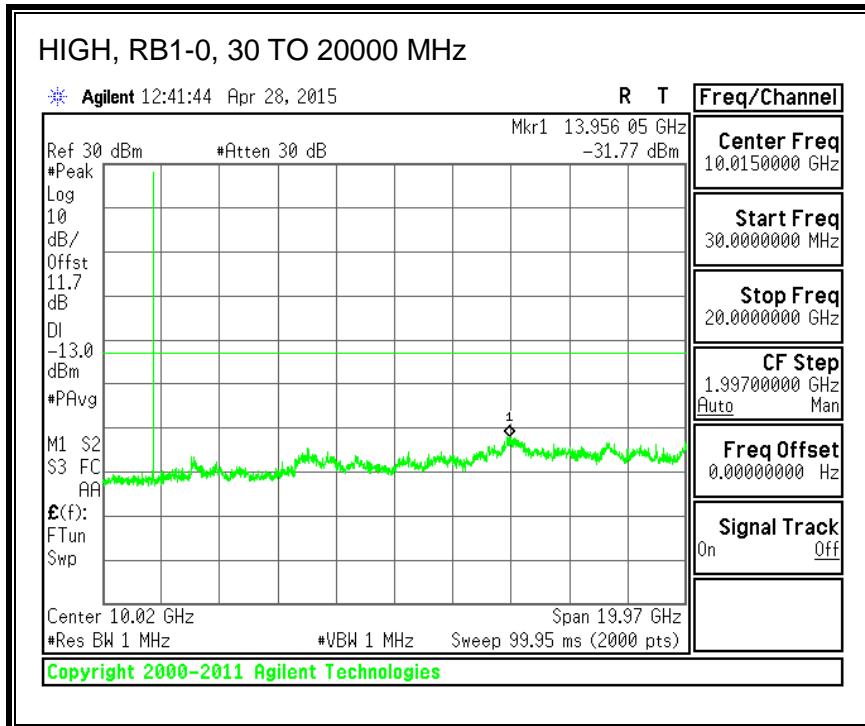
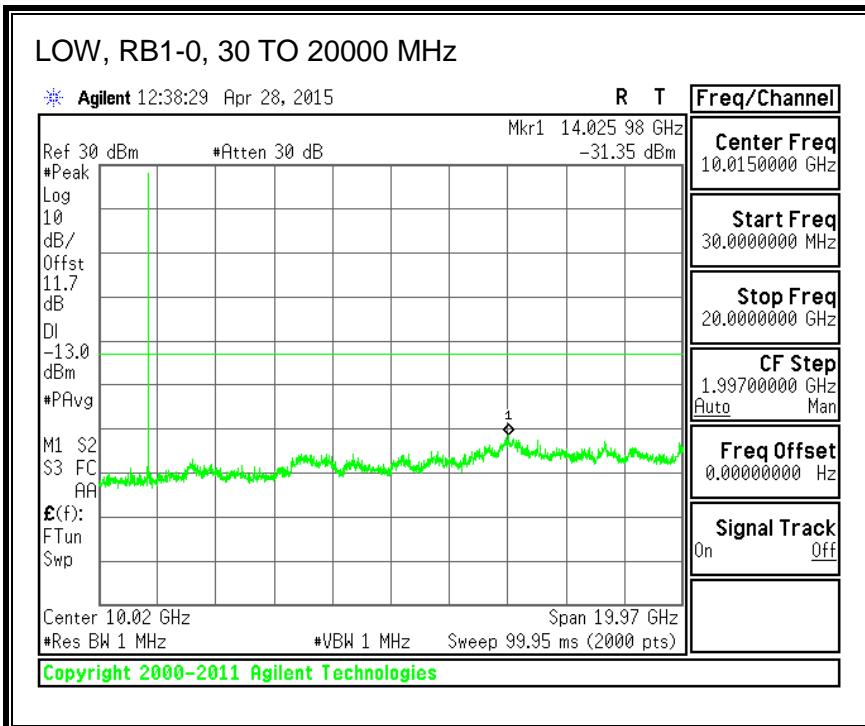


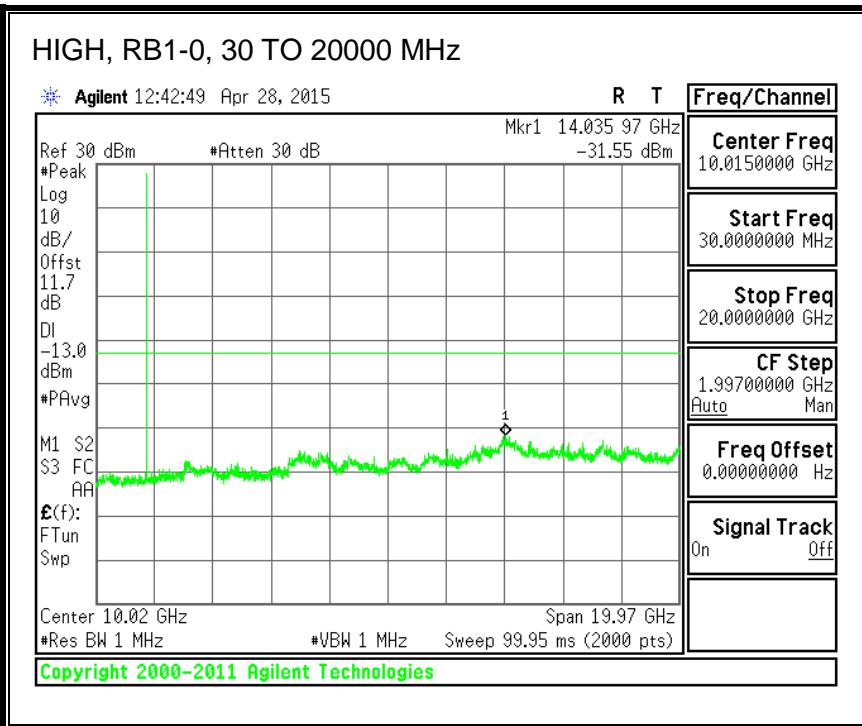
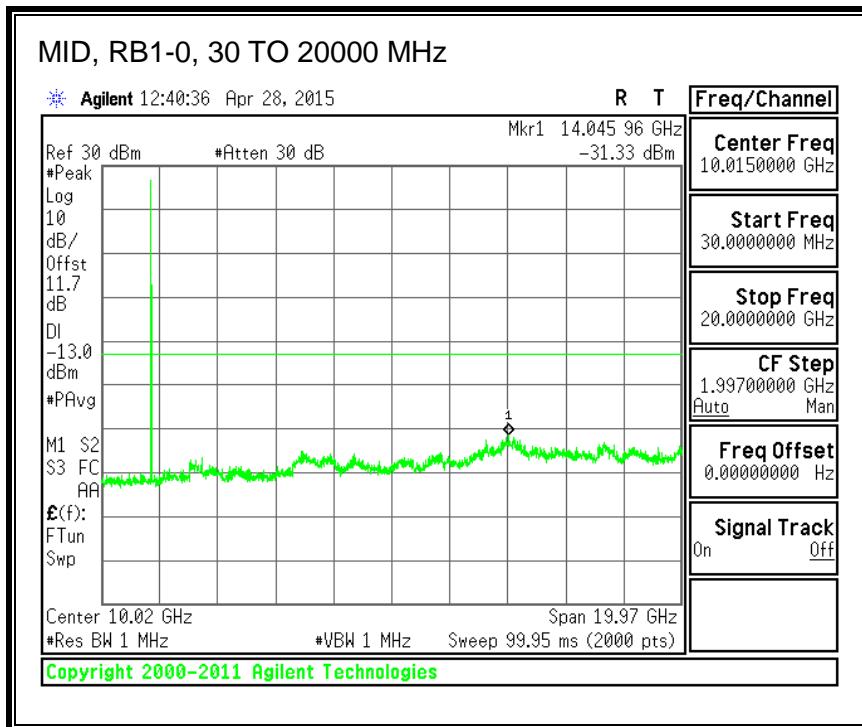
### 16QAM, (1.4 MHz BAND WIDTH)

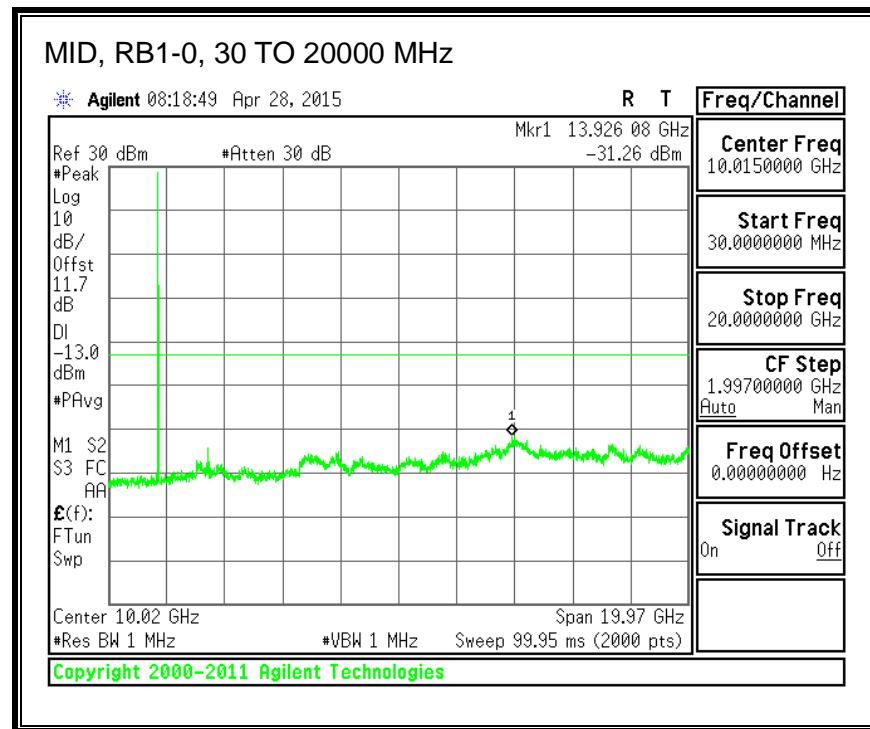
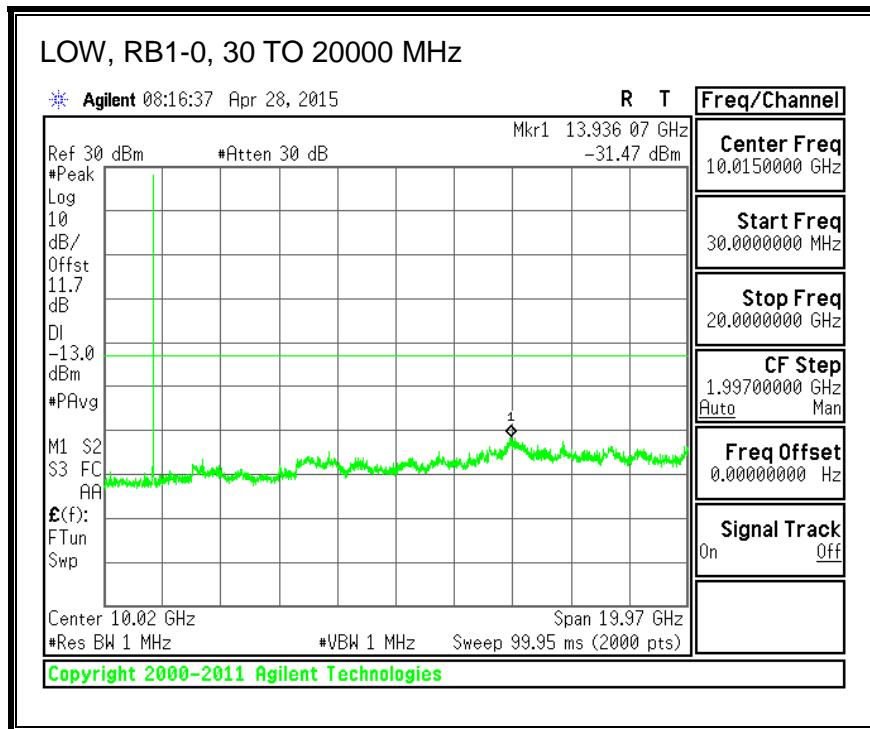


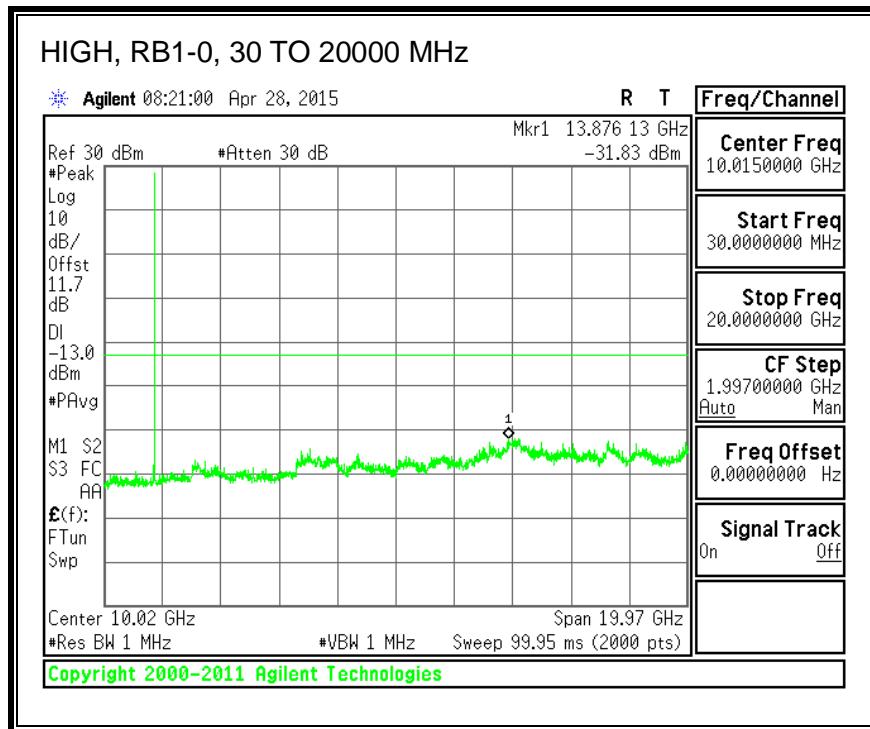
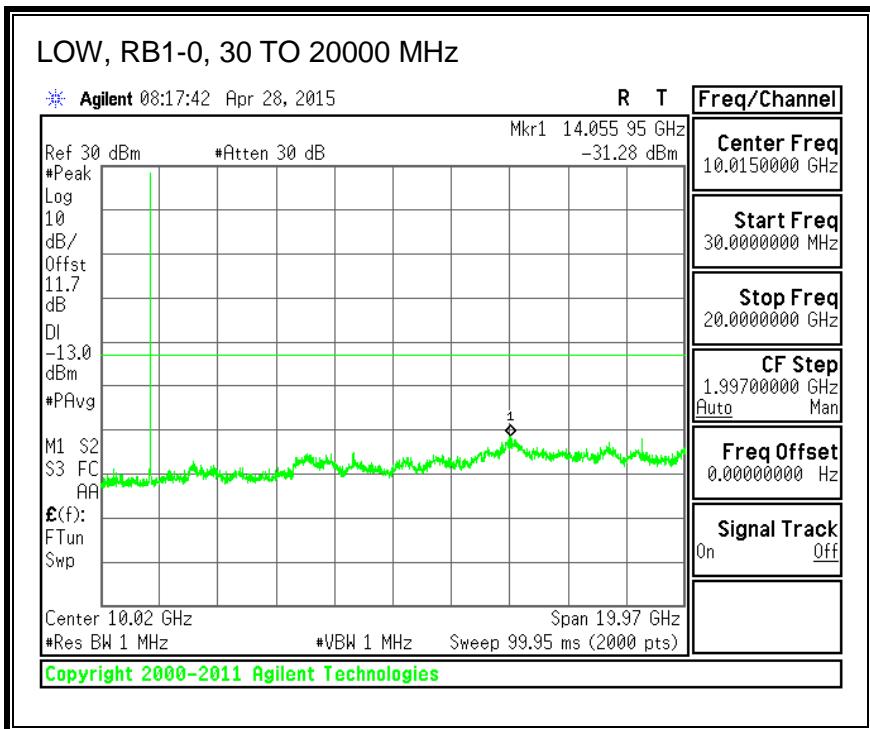


**QPSK, (3.0 MHz BAND WIDTH)**

**16QAM, (3.0 MHz BAND WIDTH)**



**QPSK, (5.0 MHz BAND WIDTH)**

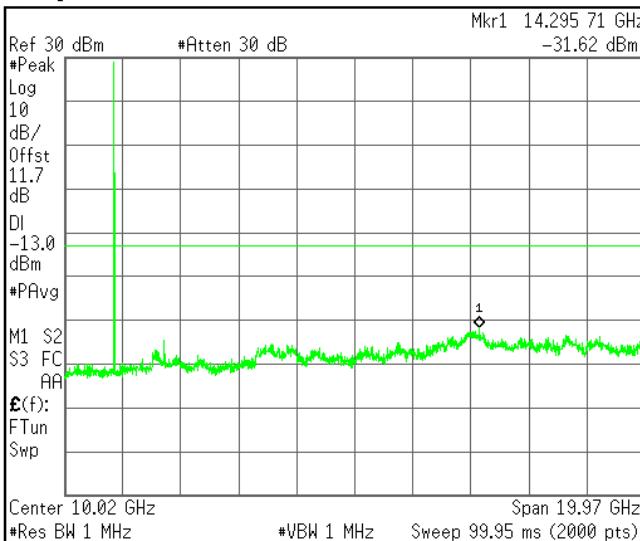
**16QAM, (5.0 MHz BAND WIDTH)**

## MID, RB1-0, 30 TO 20000 MHz

Agilent 08:19:54 Apr 28, 2015

R

T



## Freq/Channel

Center Freq  
10.0150000 GHzStart Freq  
30.0000000 MHzStop Freq  
20.0000000 GHzCF Step  
1.99700000 GHz  
Auto ManFreq Offset  
0.00000000 HzSignal Track  
On Off

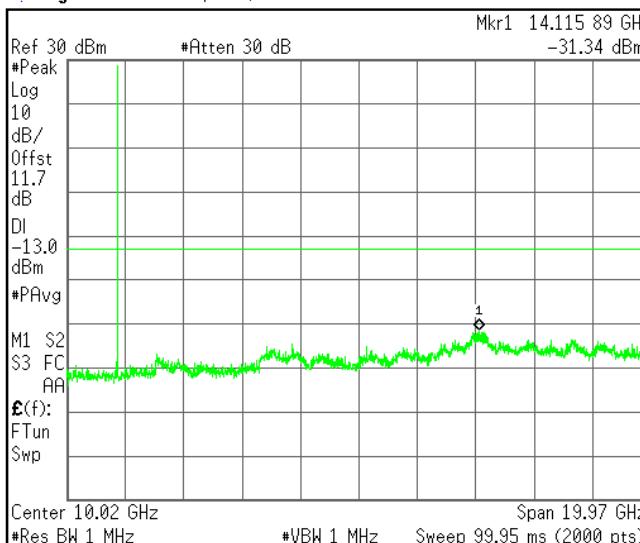
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## HIGH, RB1-0, 30 TO 20000 MHz

Agilent 08:22:05 Apr 28, 2015

R

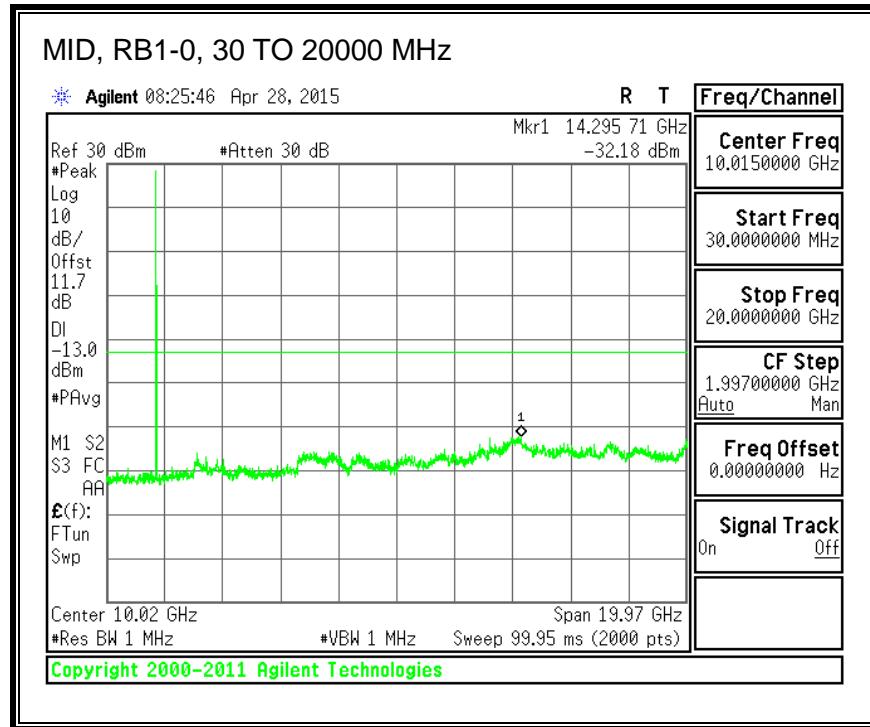
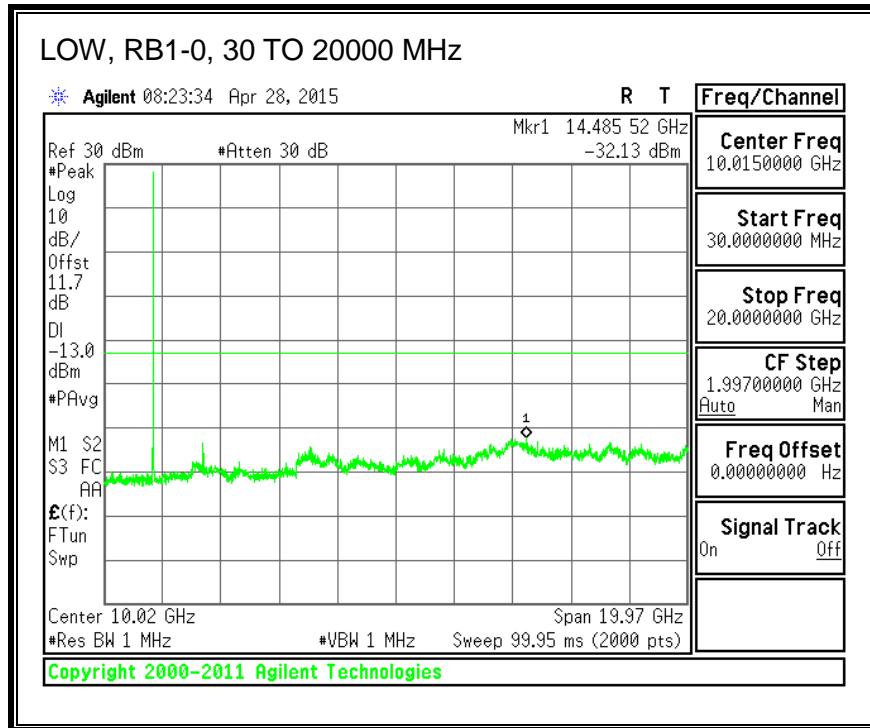
T



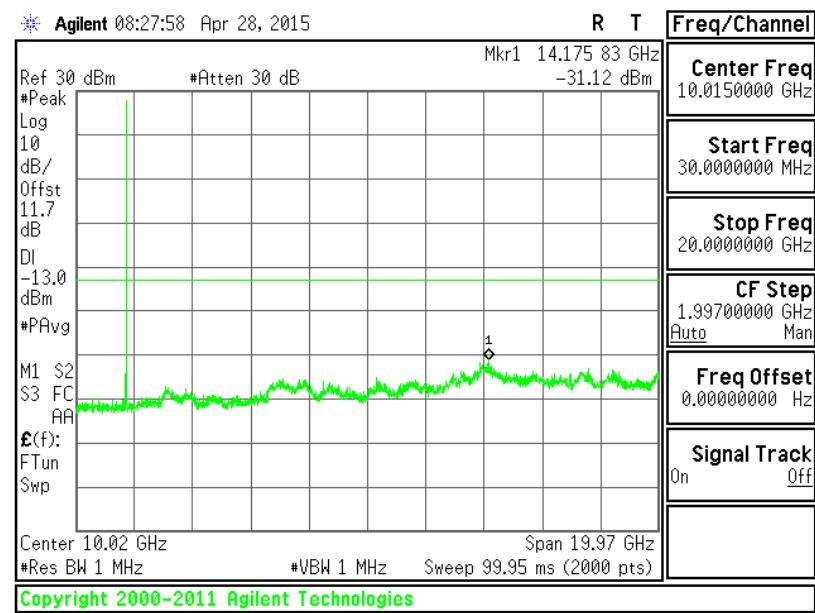
## Freq/Channel

Center Freq  
10.0150000 GHzStart Freq  
30.0000000 MHzStop Freq  
20.0000000 GHzCF Step  
1.99700000 GHz  
Auto ManFreq Offset  
0.00000000 HzSignal Track  
On Off

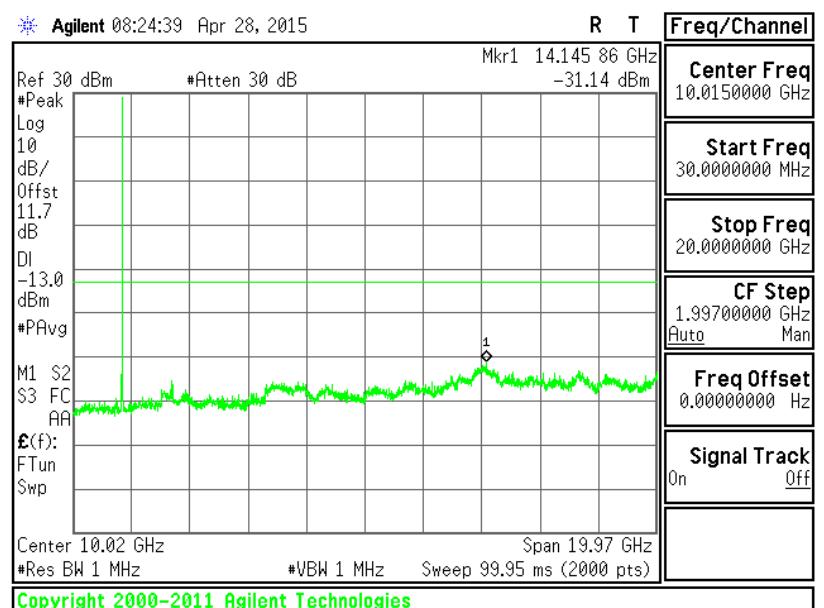
Copyright 2000-2011 Agilent Technologies

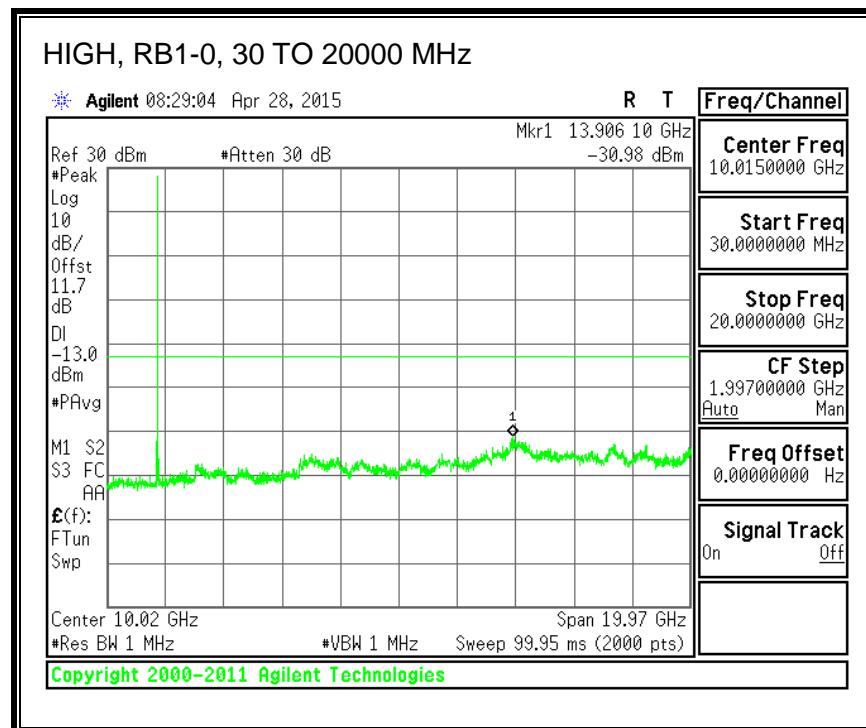
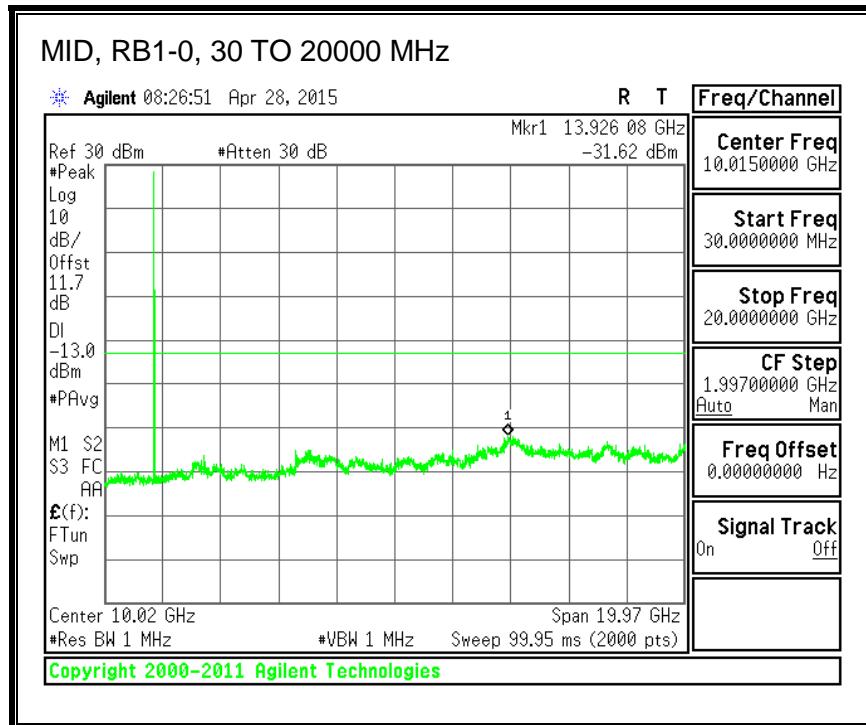
**QPSK, (10.0 MHz BAND WIDTH)**

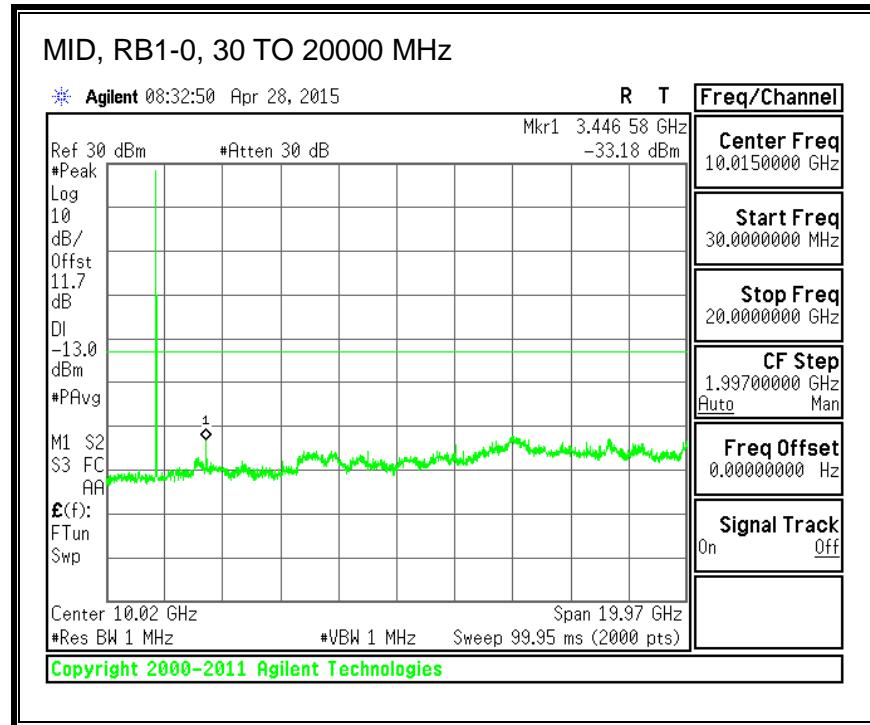
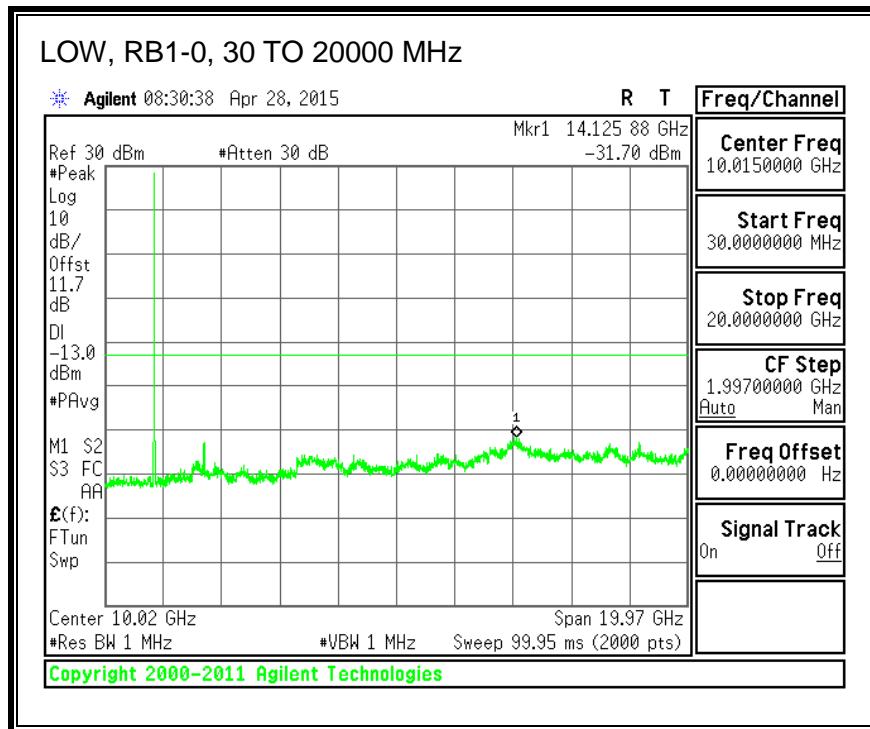
## HIGH, RB1-0, 30 TO 20000 MHz

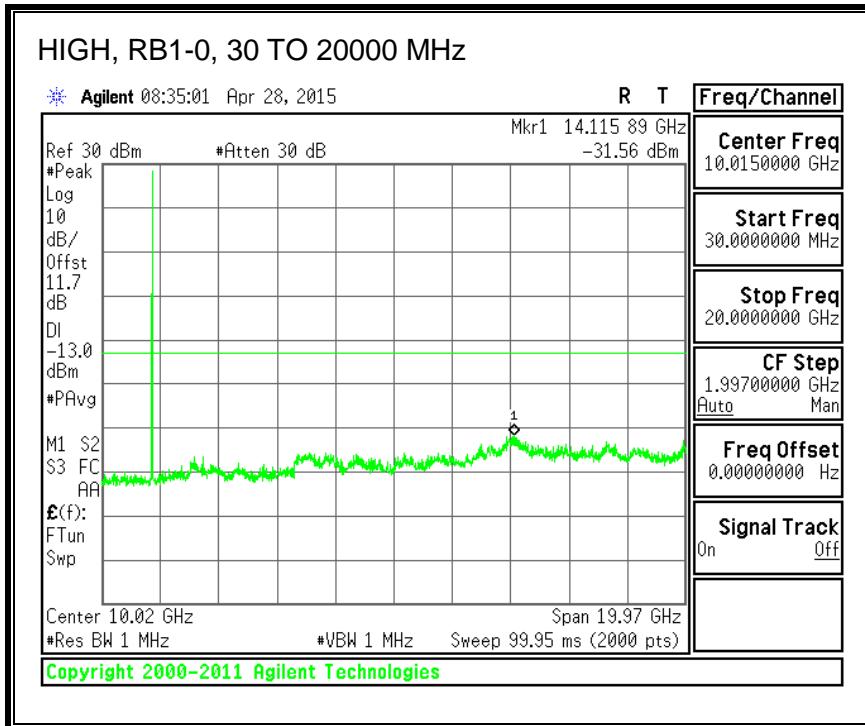
16QAM, (10.0 MHz BAND WIDTH)

## LOW, RB1-0, 30 TO 20000 MHz

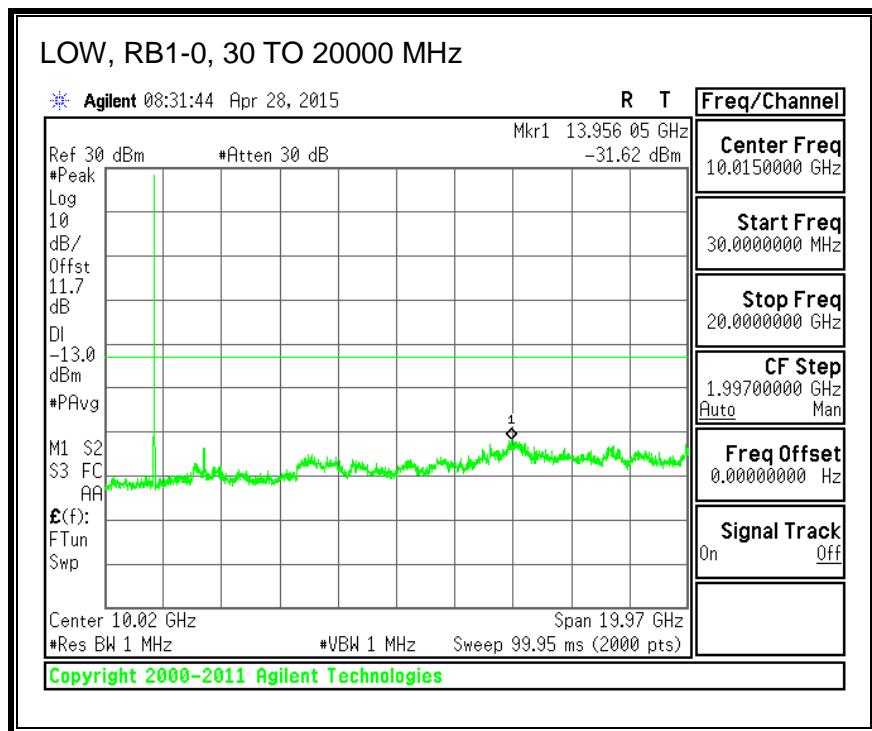


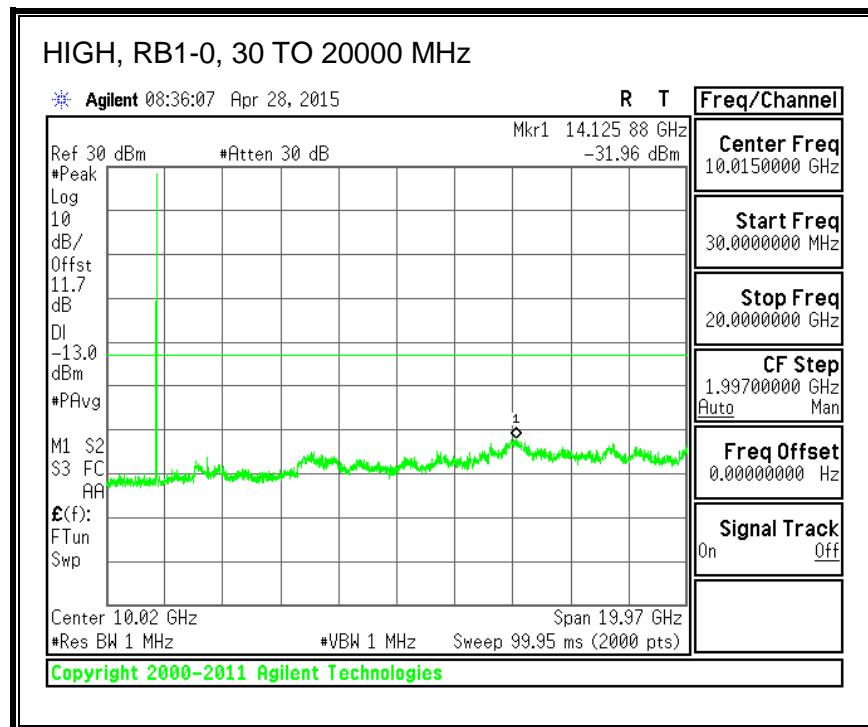
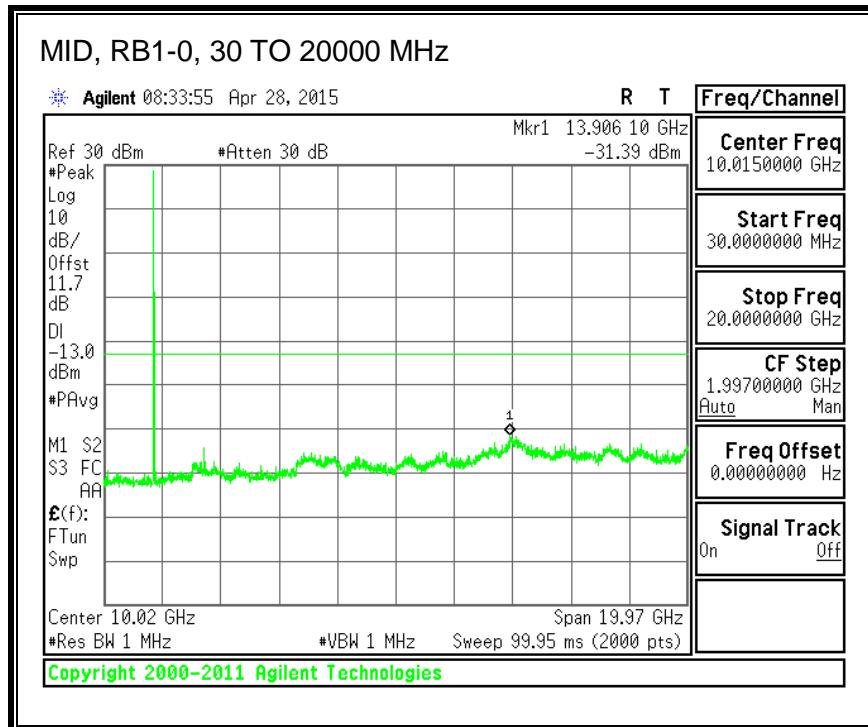


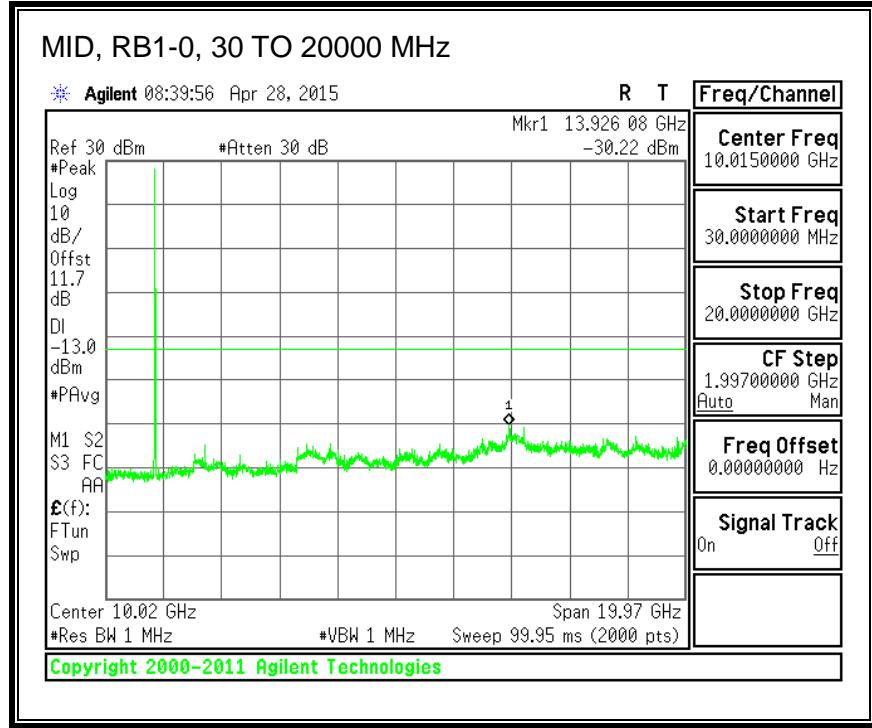
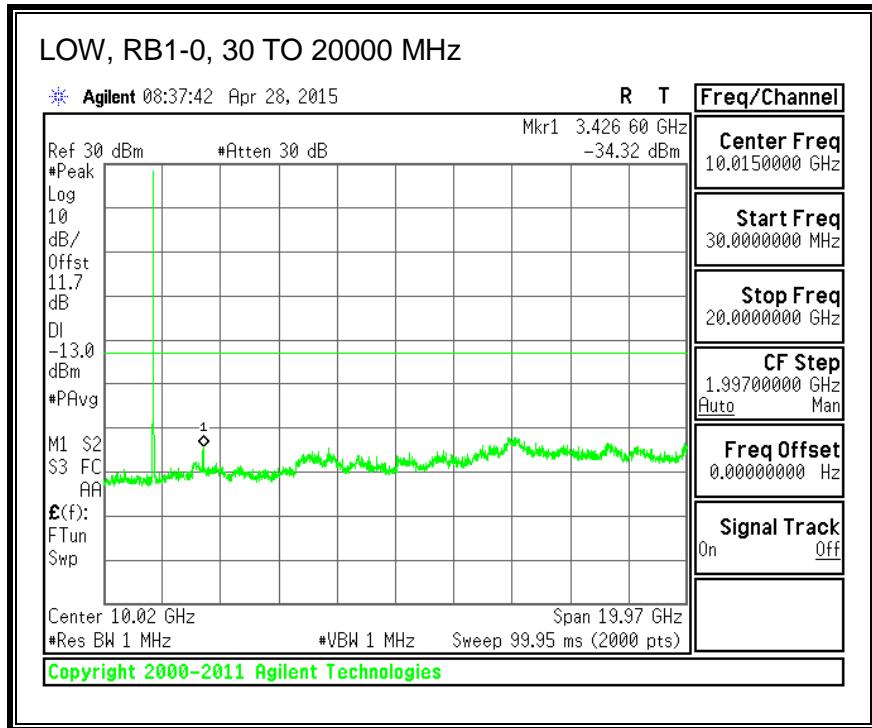
**QPSK, (15.0 MHz BAND WIDTH)**

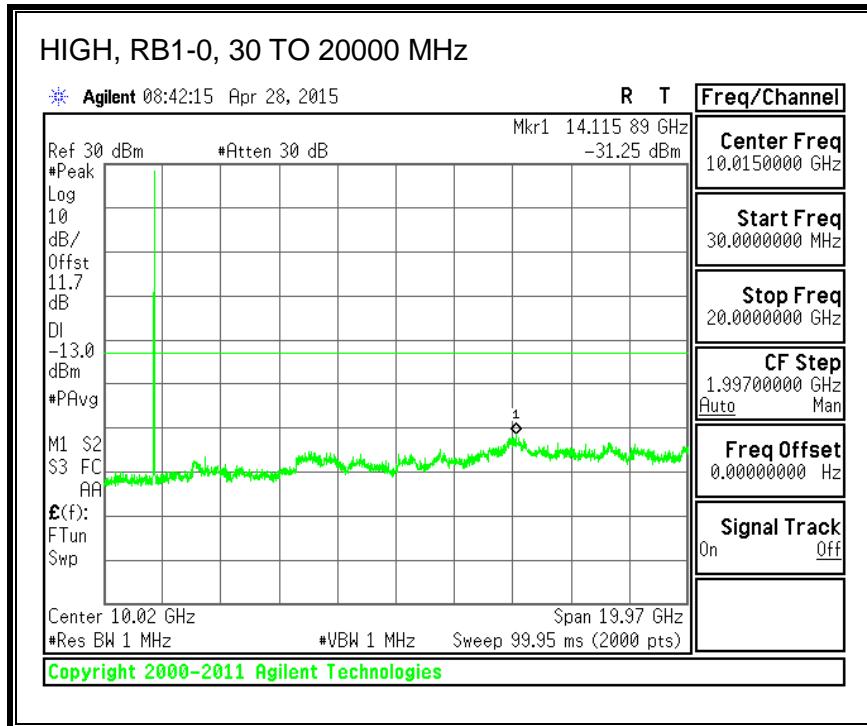


### 16QAM, (15.0 MHz BAND WIDTH)

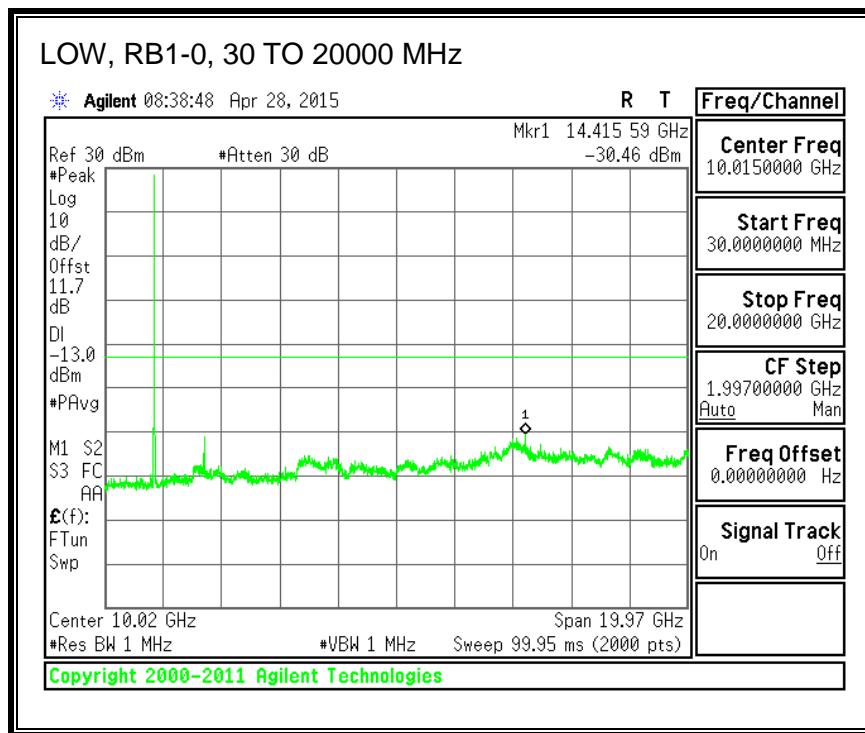


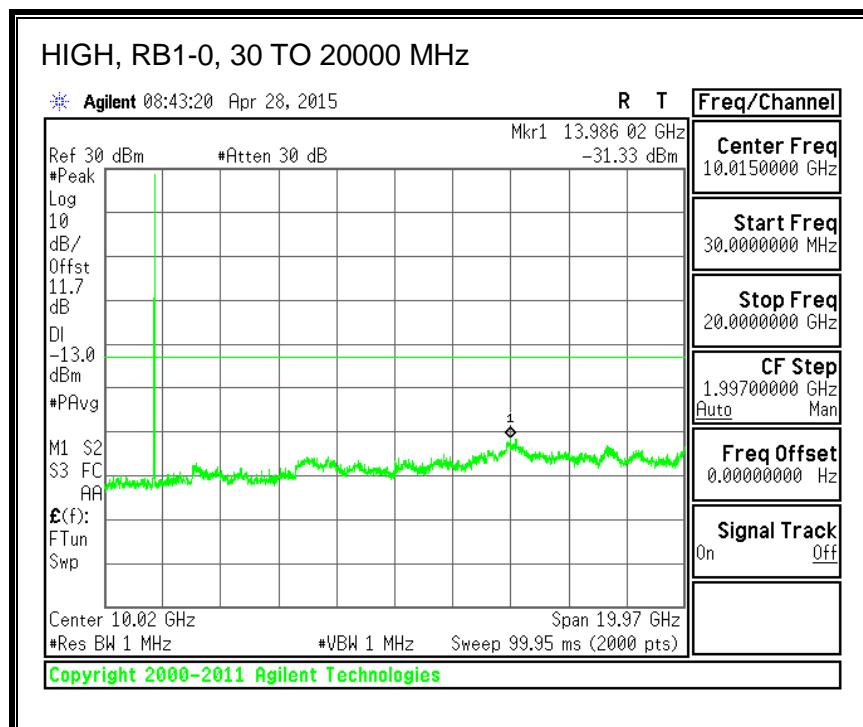
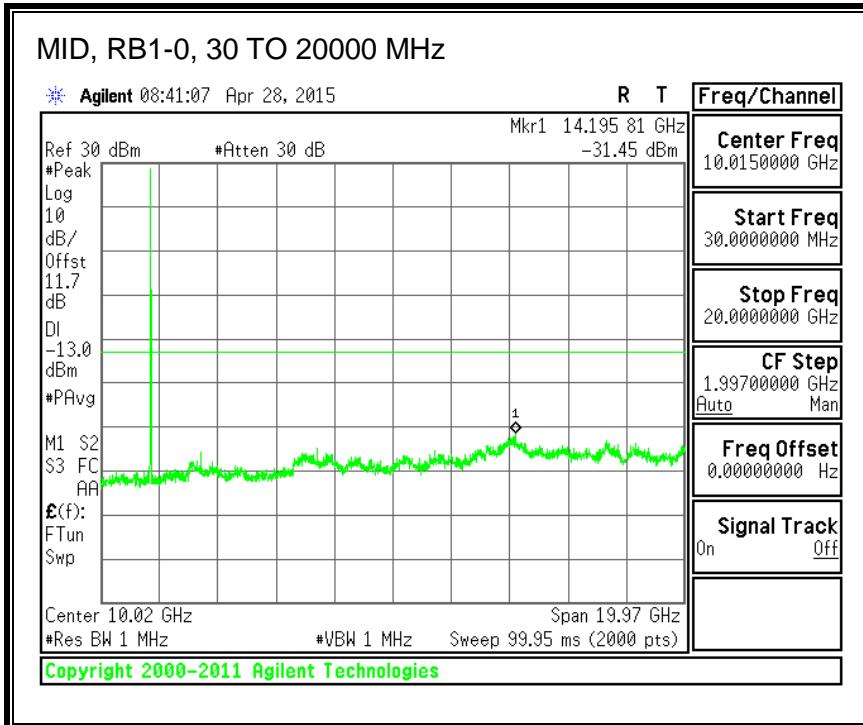


**QPSK, (20.0 MHz BAND WIDTH)**



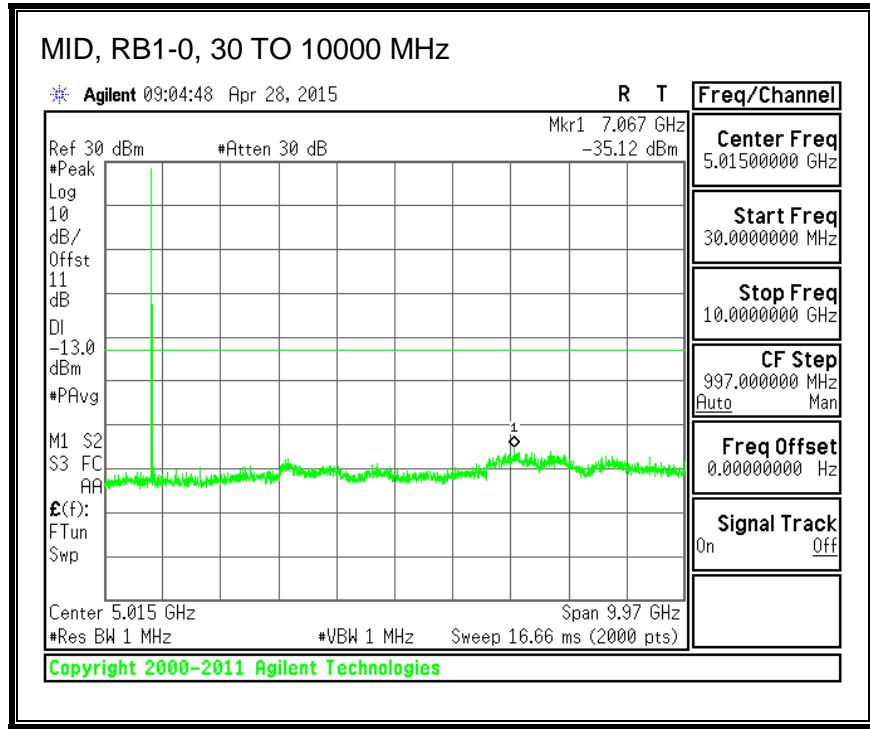
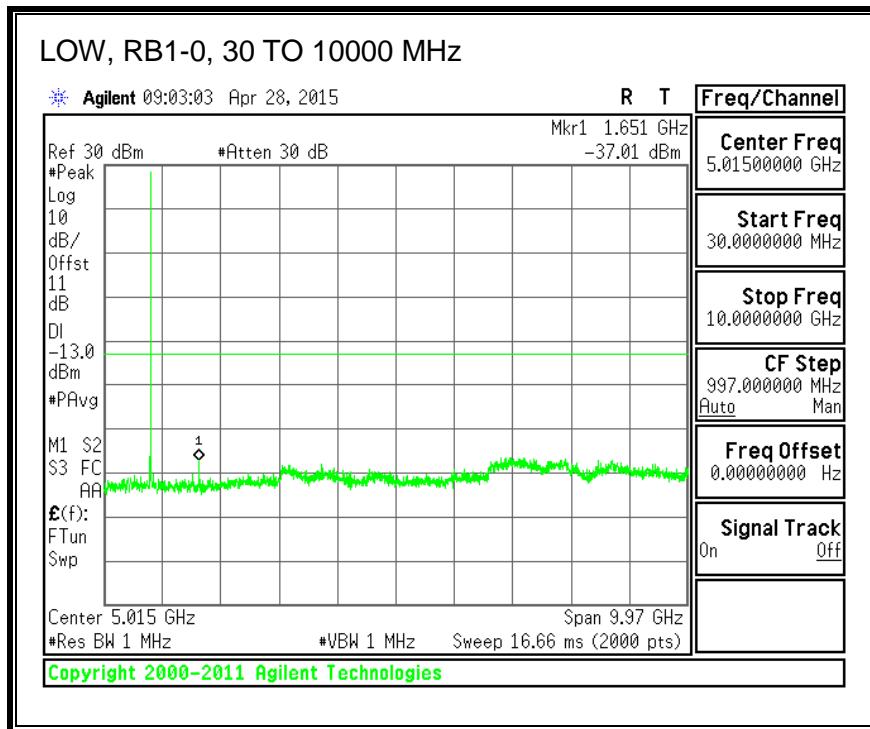
### 16QAM, (20.0 MHz BAND WIDTH)

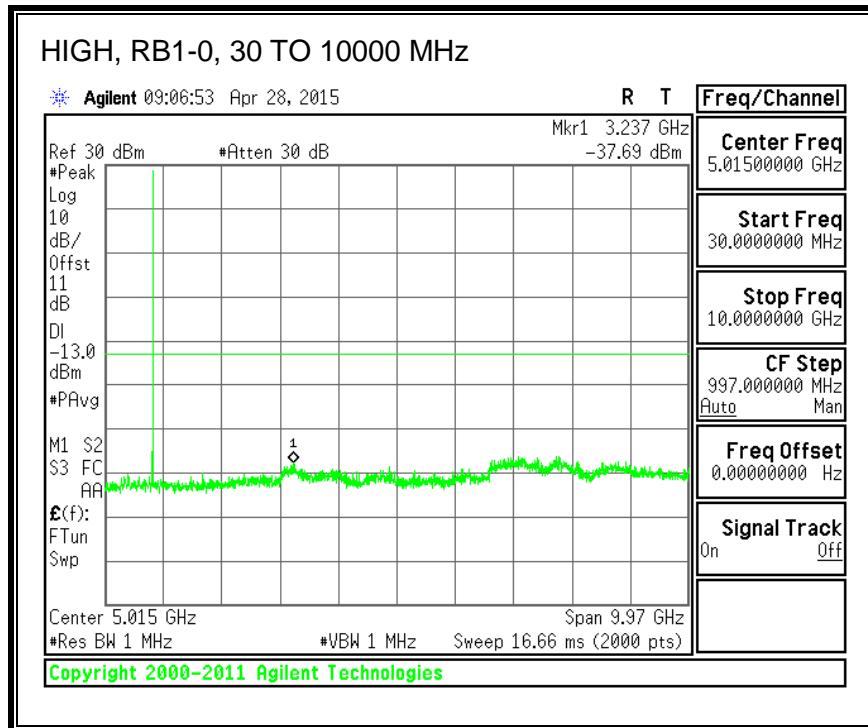




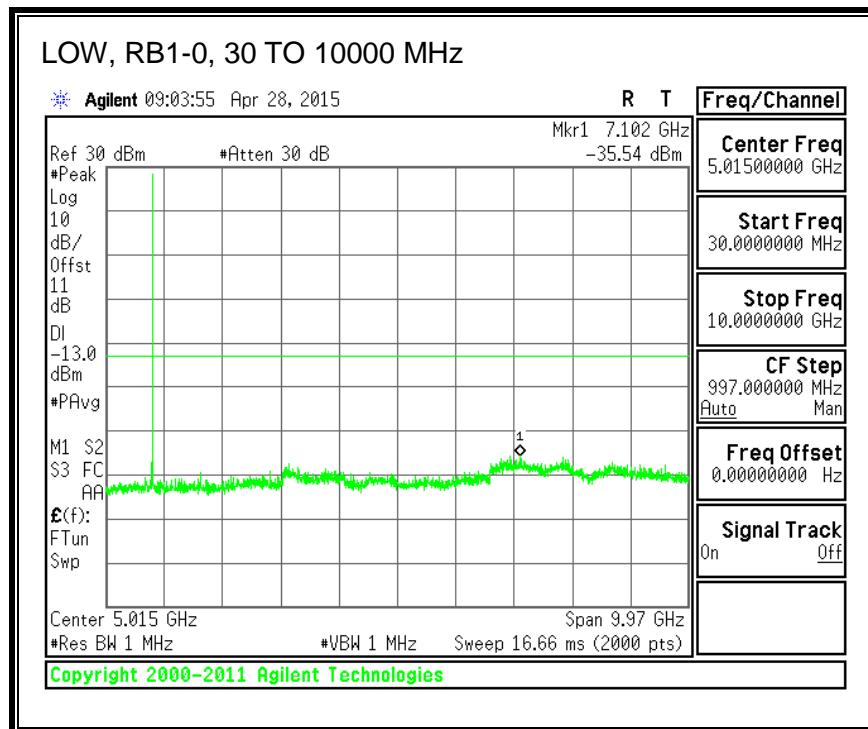
### 8.5.3. LTE BAND 5

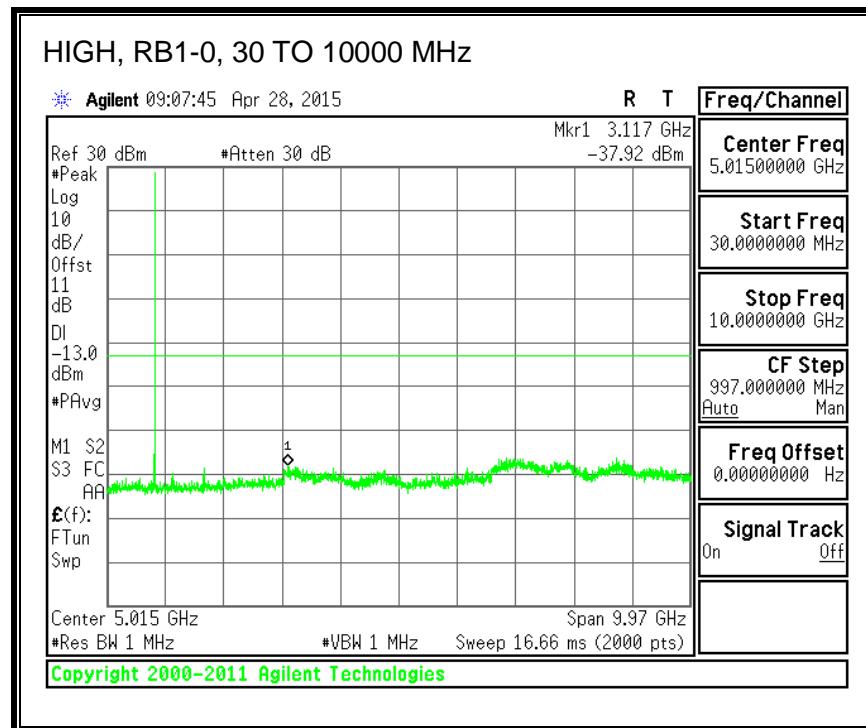
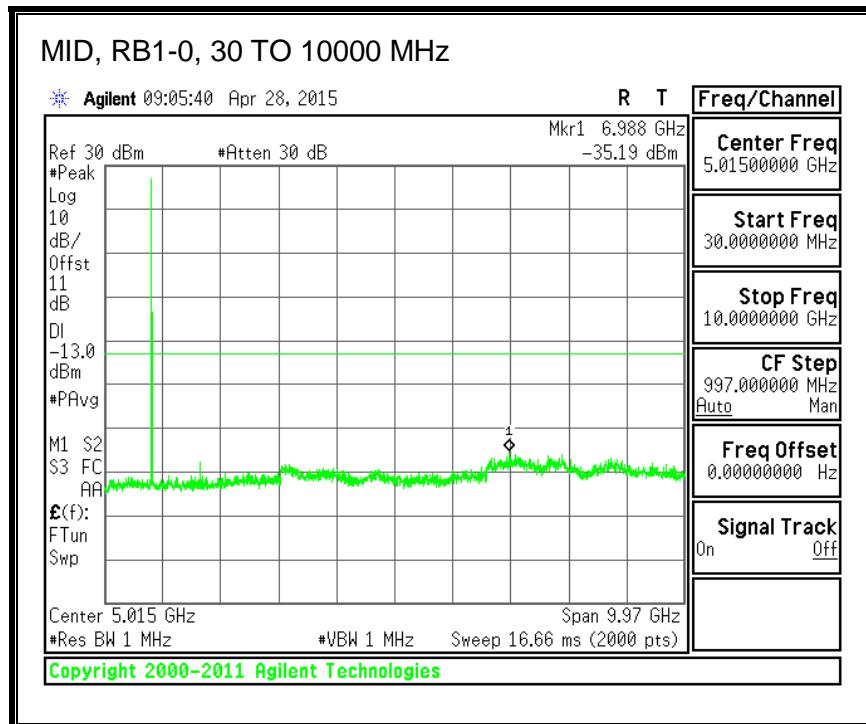
#### QPSK, (1.4 MHz BAND WIDTH)

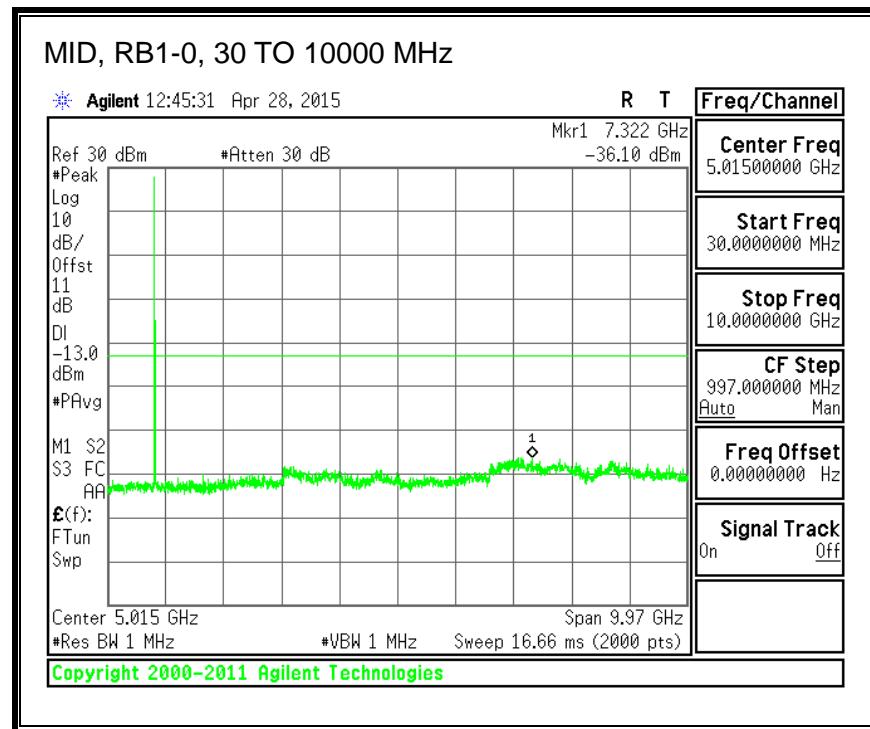
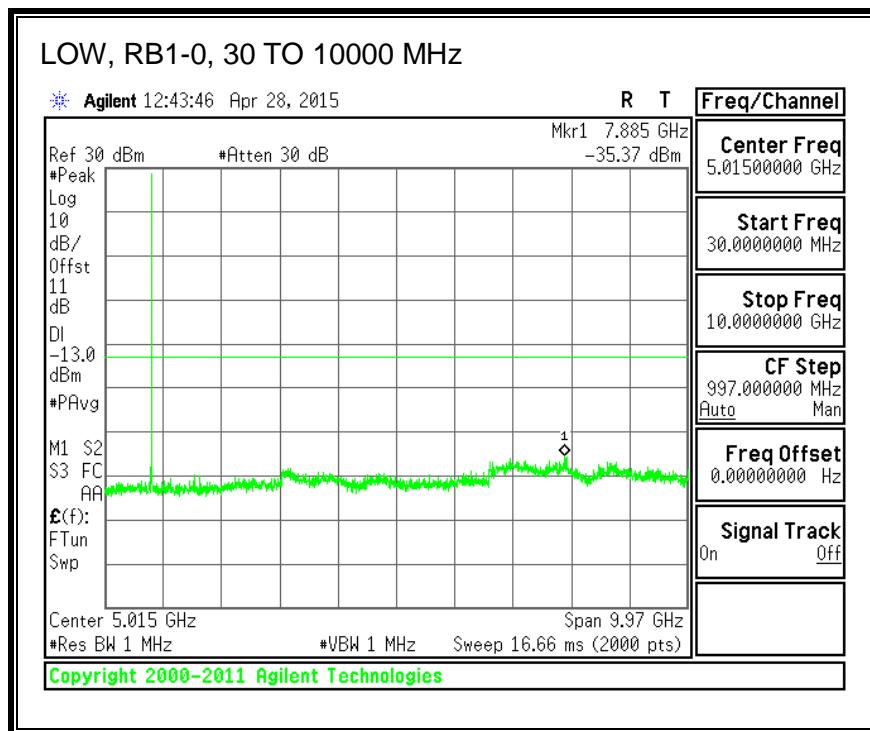


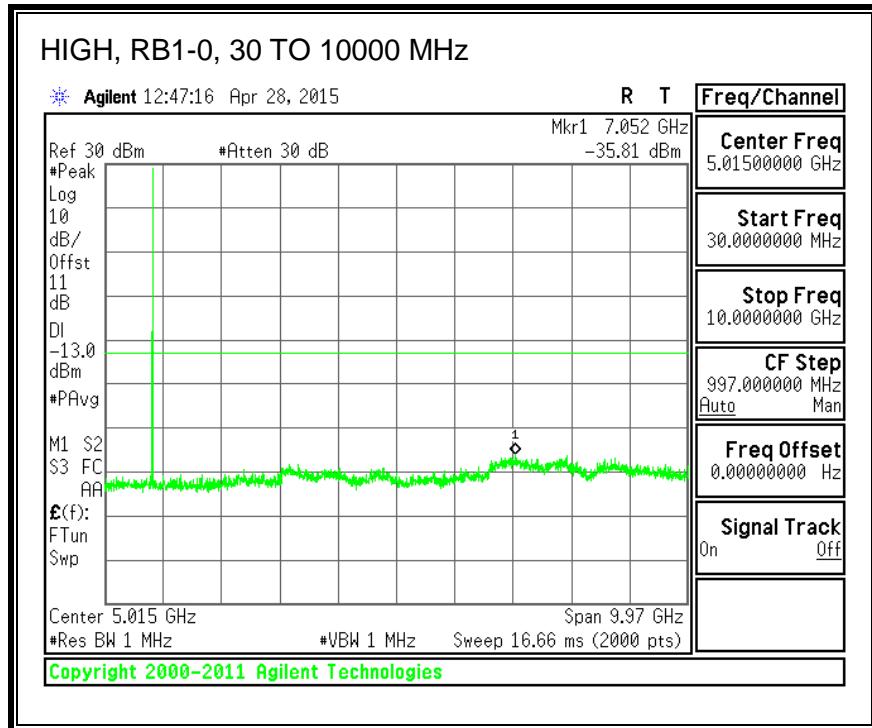
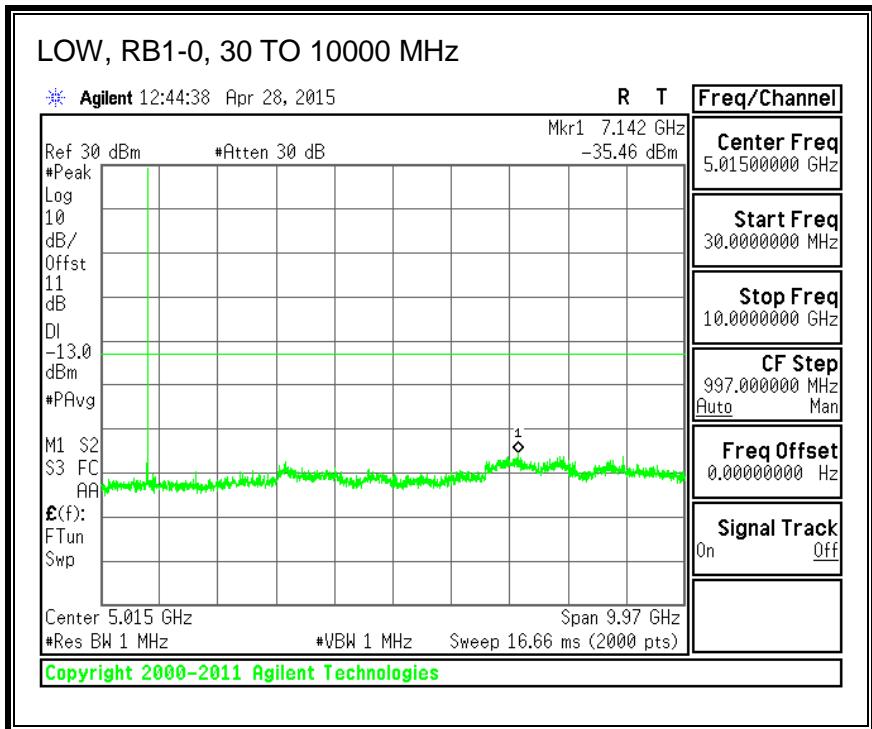


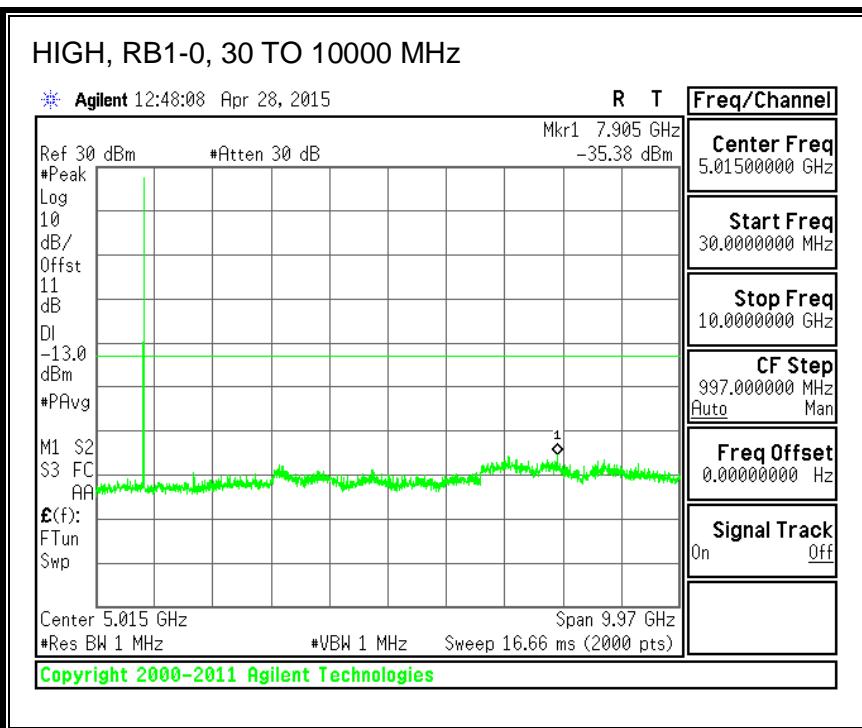
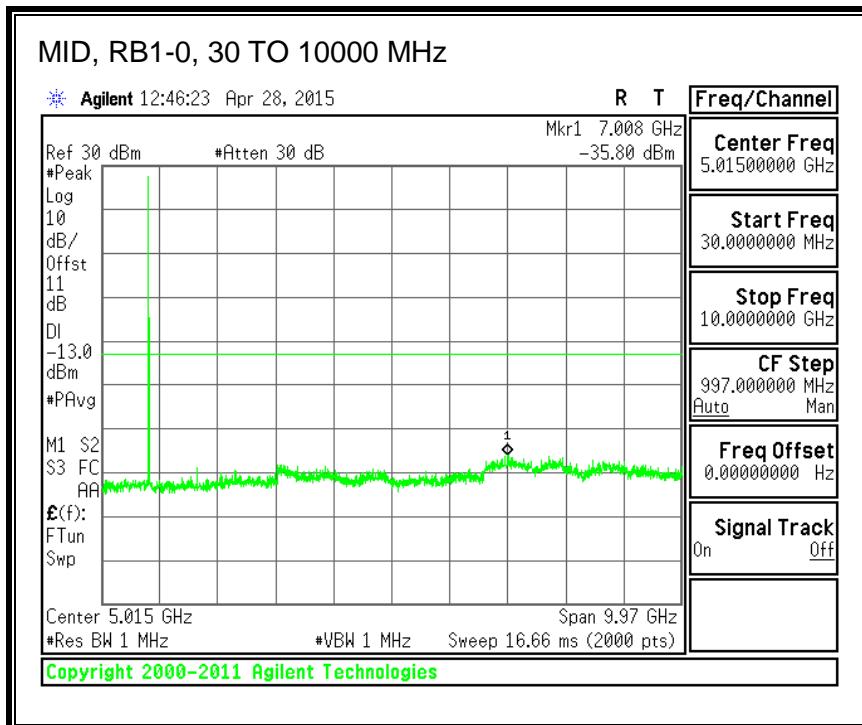
### 16QAM, (1.4 MHz BAND WIDTH)

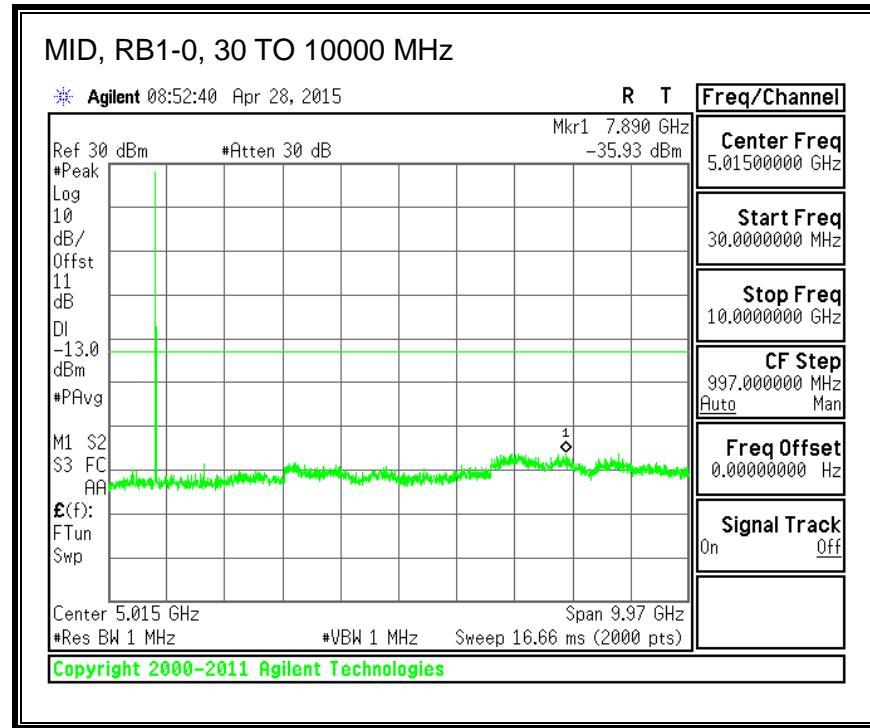
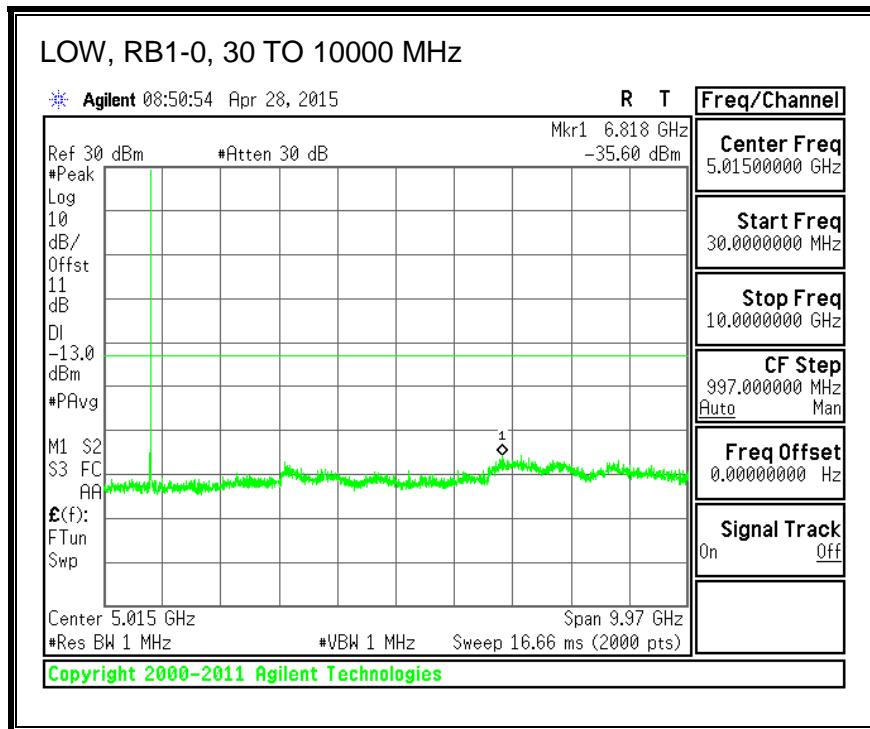


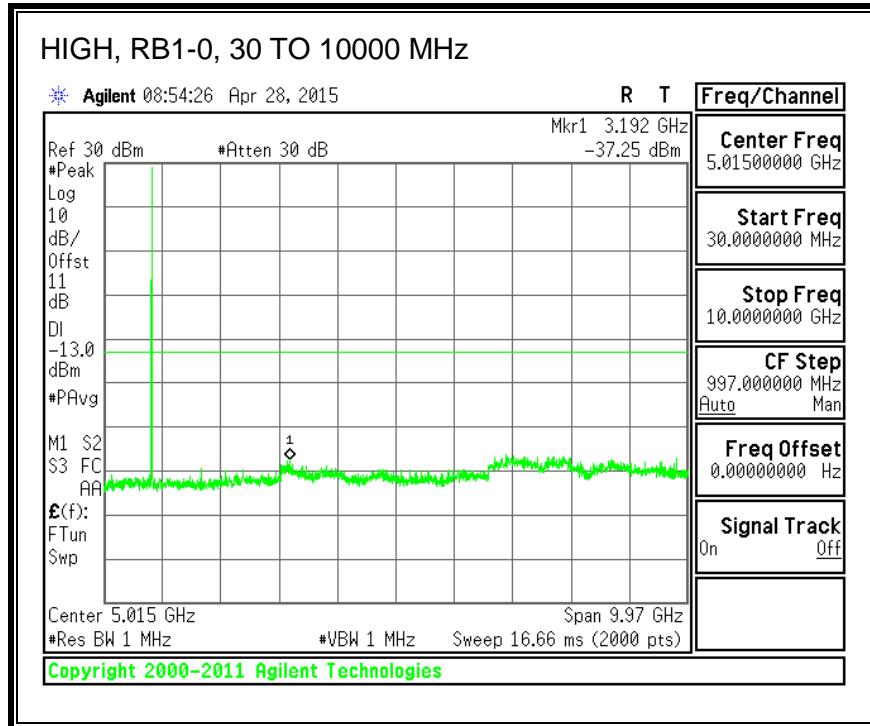
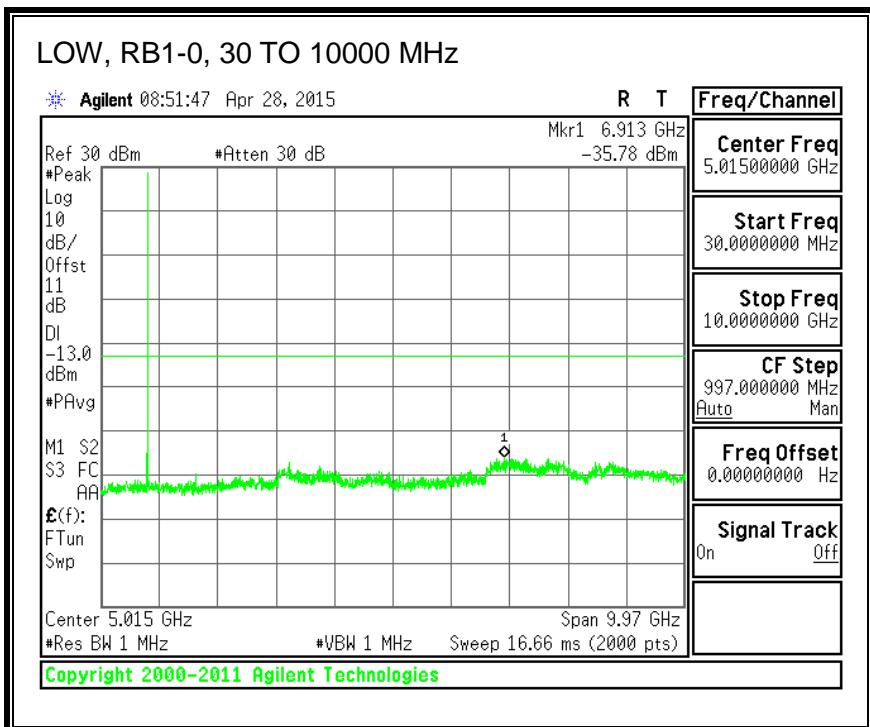


**QPSK, (3.0 MHz BAND WIDTH)**

**16QAM, (3.0 MHz BAND WIDTH)**

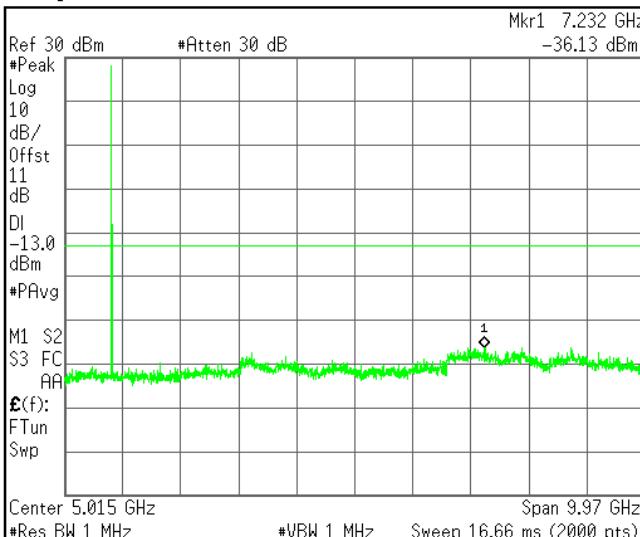


**QPSK, (5.0 MHz BAND WIDTH)**

**16QAM, (5.0 MHz BAND WIDTH)**

## MID, RB1-0, 30 TO 10000 MHz

Agilent 08:53:31 Apr 28, 2015



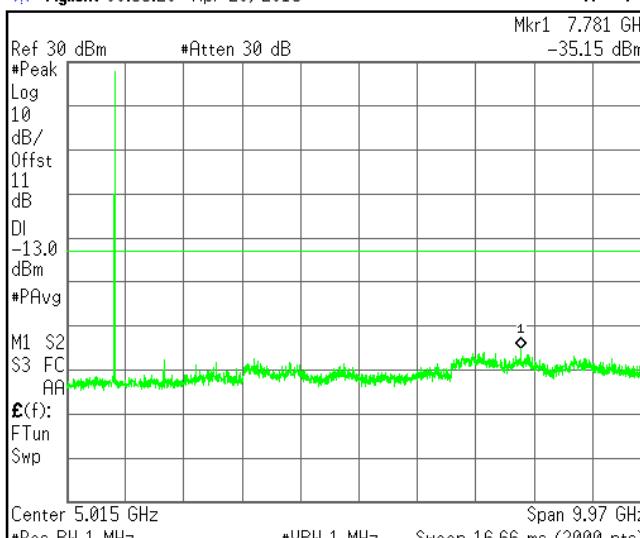
R T Freq/Channel

Center Freq	5.01500000 GHz
Start Freq	30.0000000 MHz
Stop Freq	10.0000000 GHz
CF Step	997.0000000 MHz
Auto	Man
Freq Offset	0.00000000 Hz
Signal Track	On Off

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## HIGH, RB1-0, 30 TO 10000 MHz

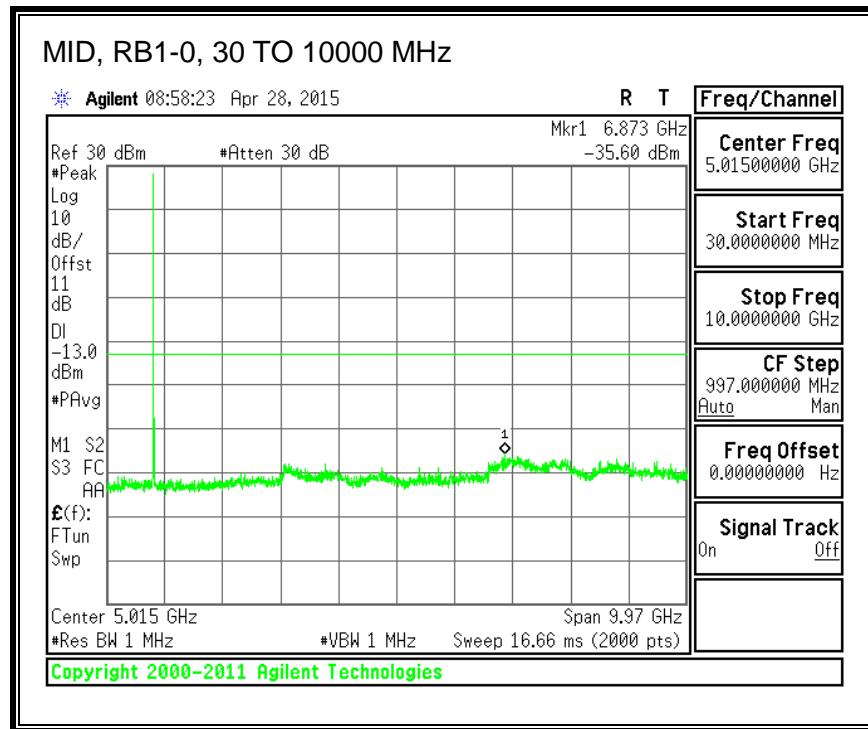
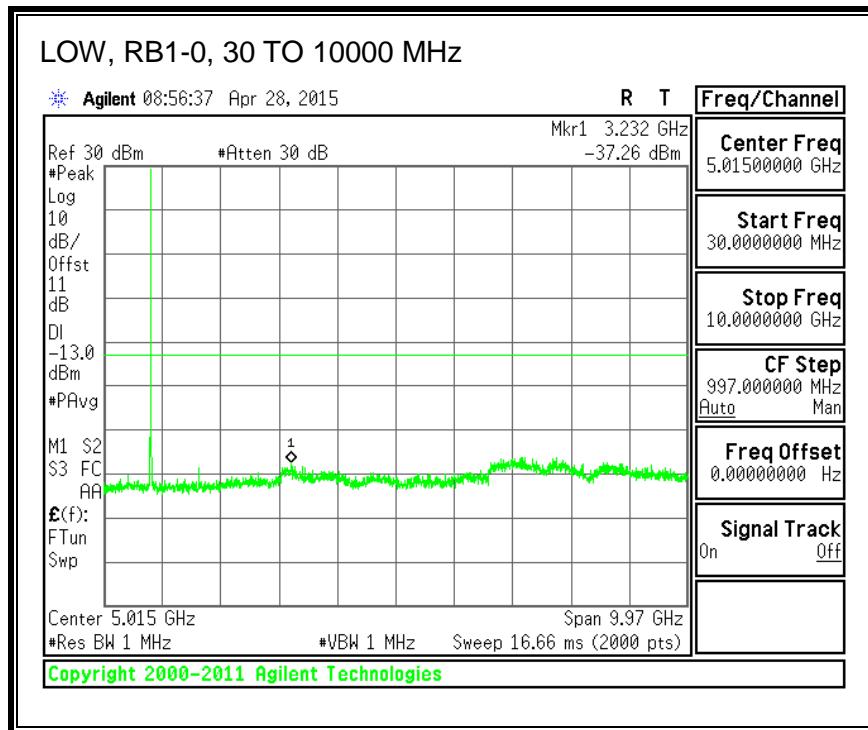
Agilent 08:55:20 Apr 28, 2015



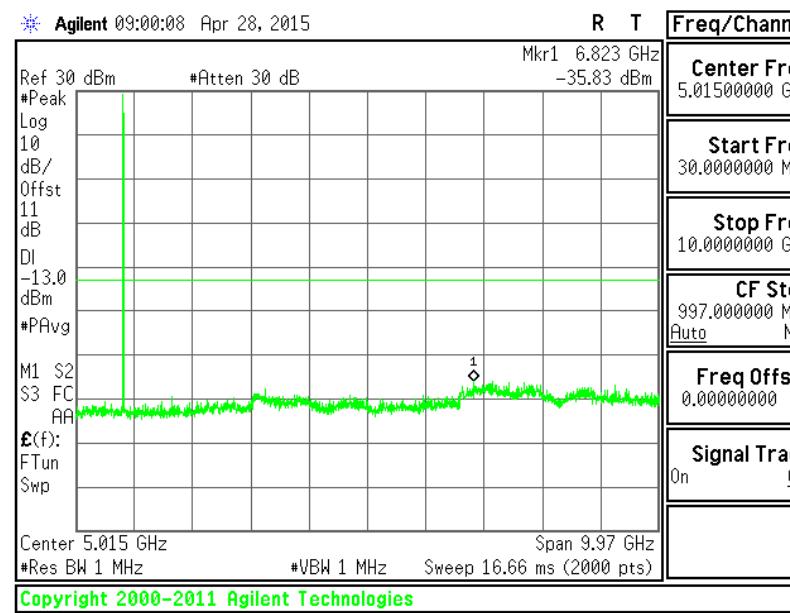
R T Freq/Channel

Center Freq	5.01500000 GHz
Start Freq	30.0000000 MHz
Stop Freq	10.0000000 GHz
CF Step	997.0000000 MHz
Auto	Man
Freq Offset	0.00000000 Hz
Signal Track	On Off

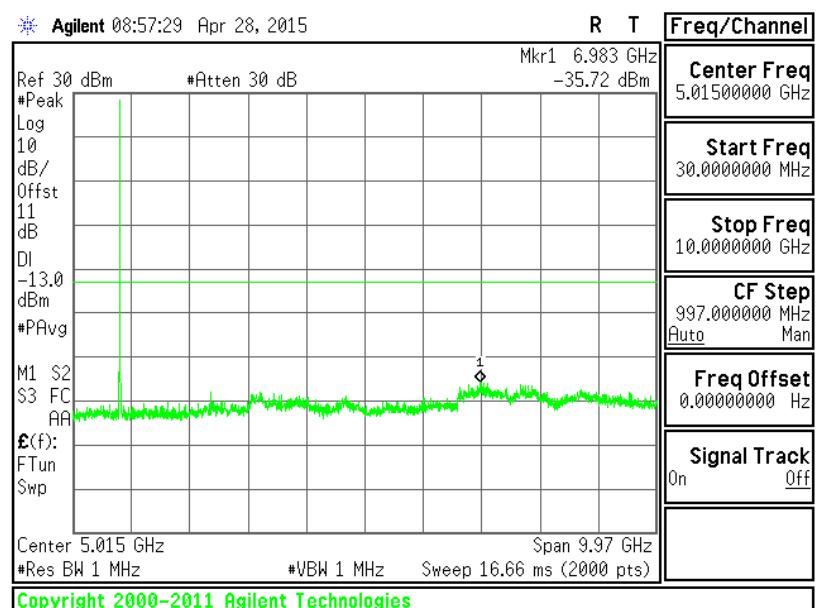
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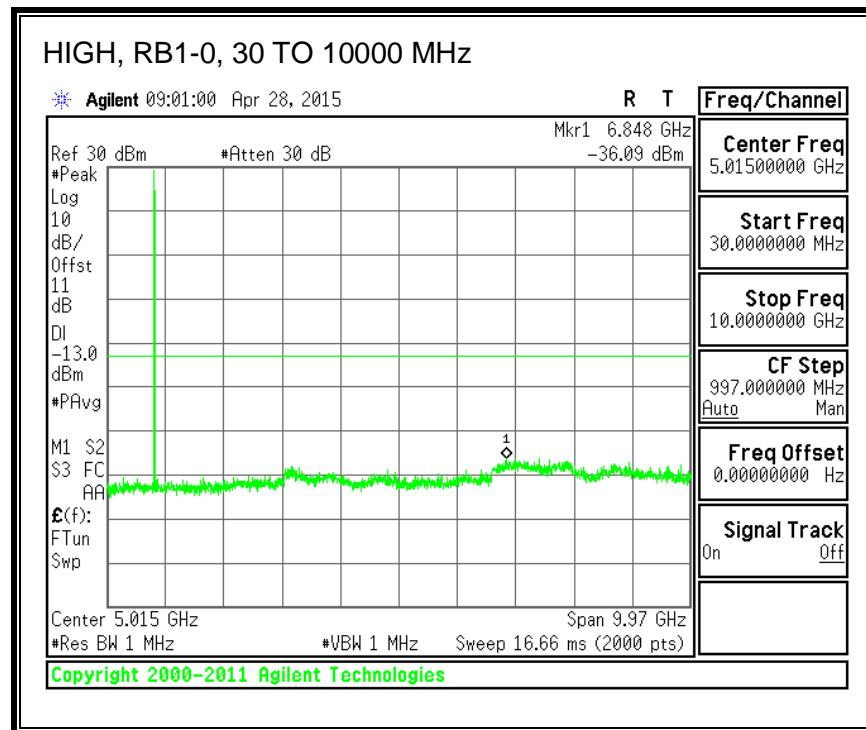
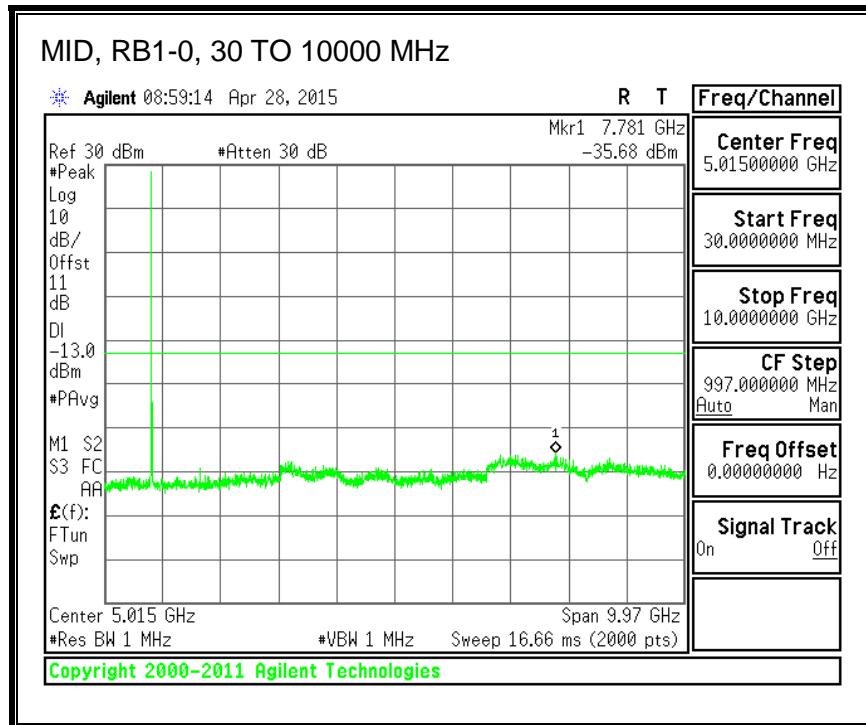
**QPSK, (10.0 MHz BAND WIDTH)**

## HIGH, RB1-0, 30 TO 10000 MHz

16QAM, (10.0 MHz BAND WIDTH)

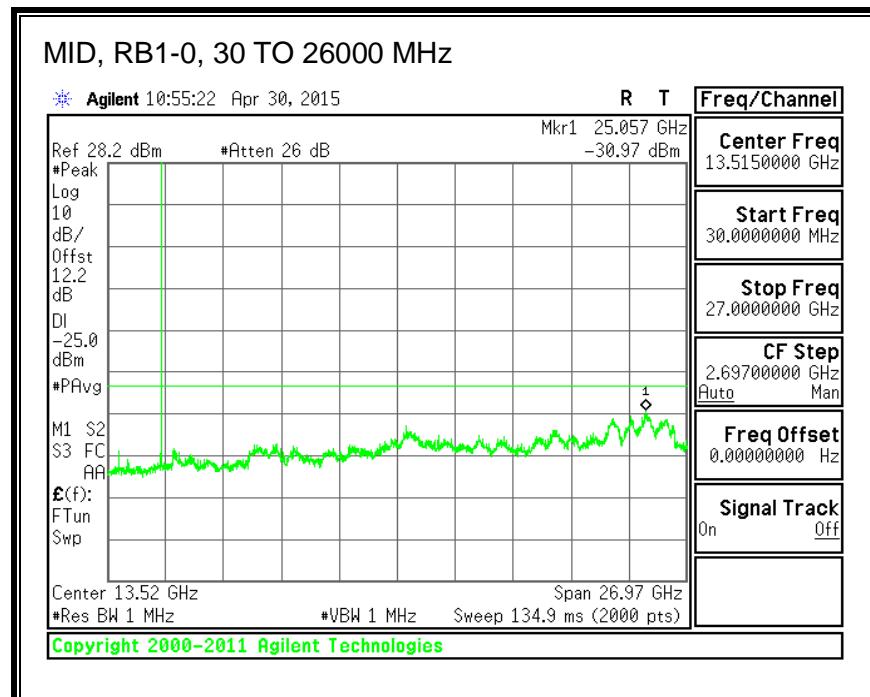
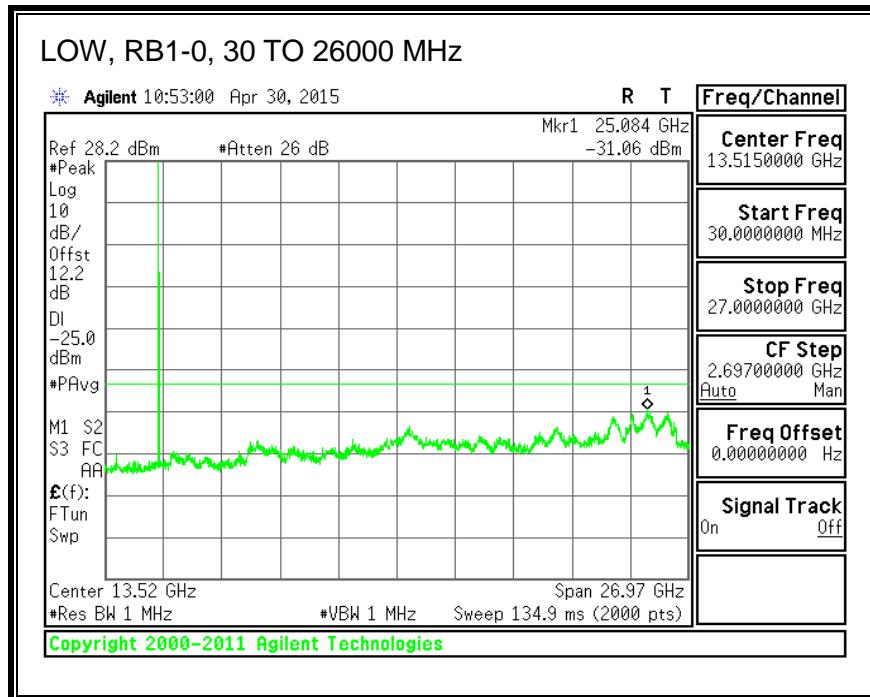
## LOW, RB1-0, 30 TO 10000 MHz

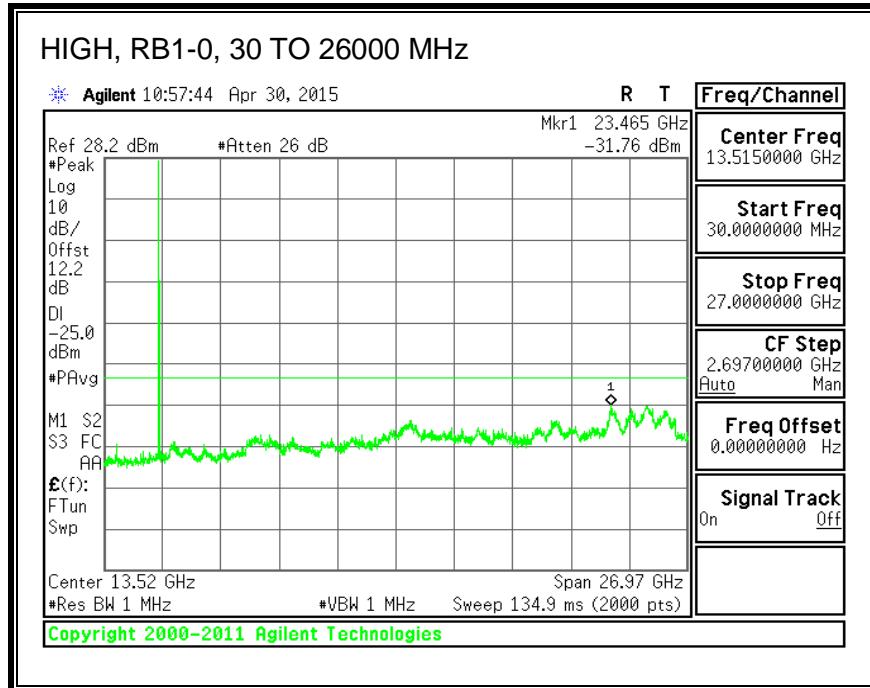




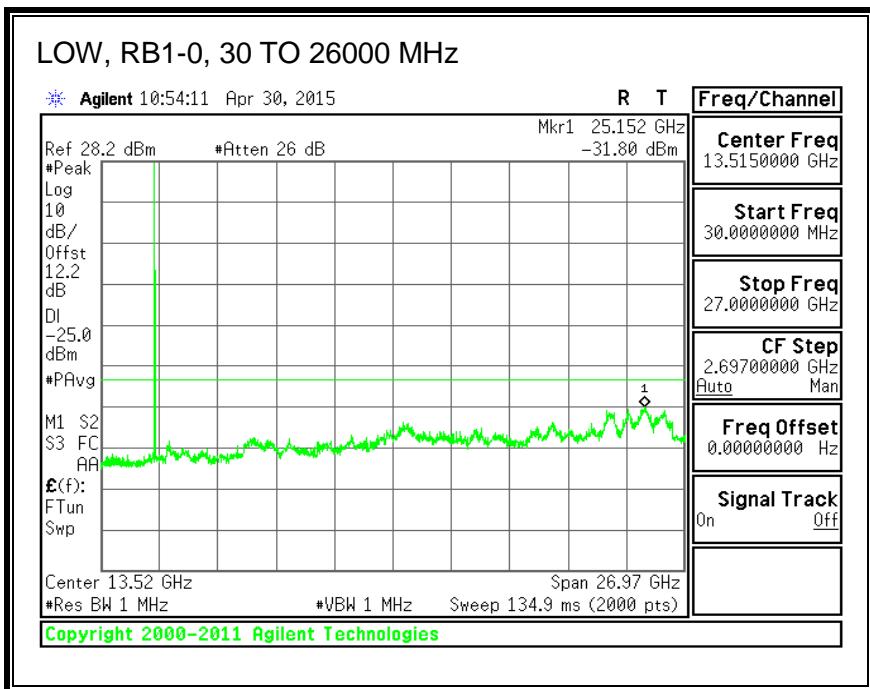
### 8.5.4. LTE BAND 7

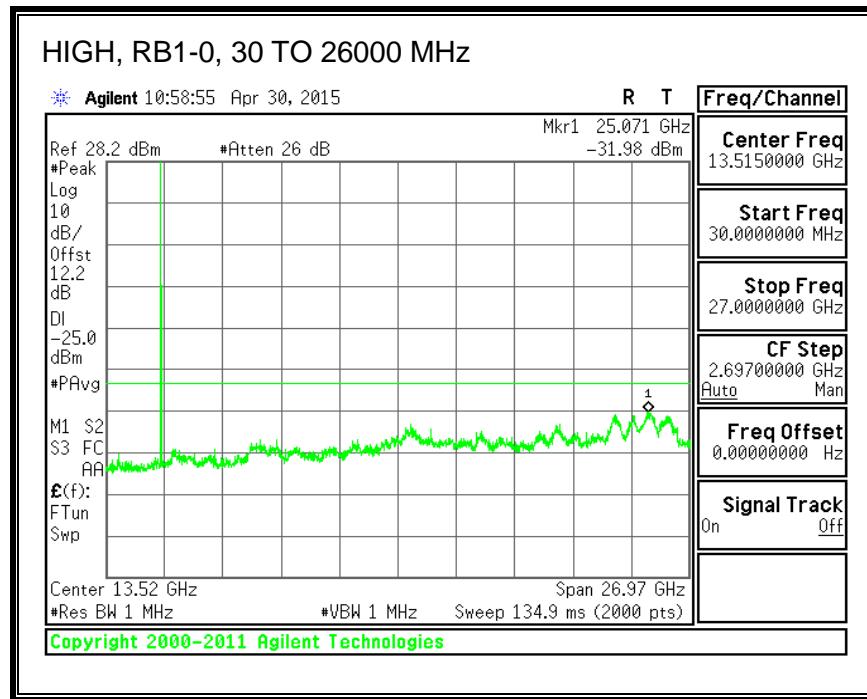
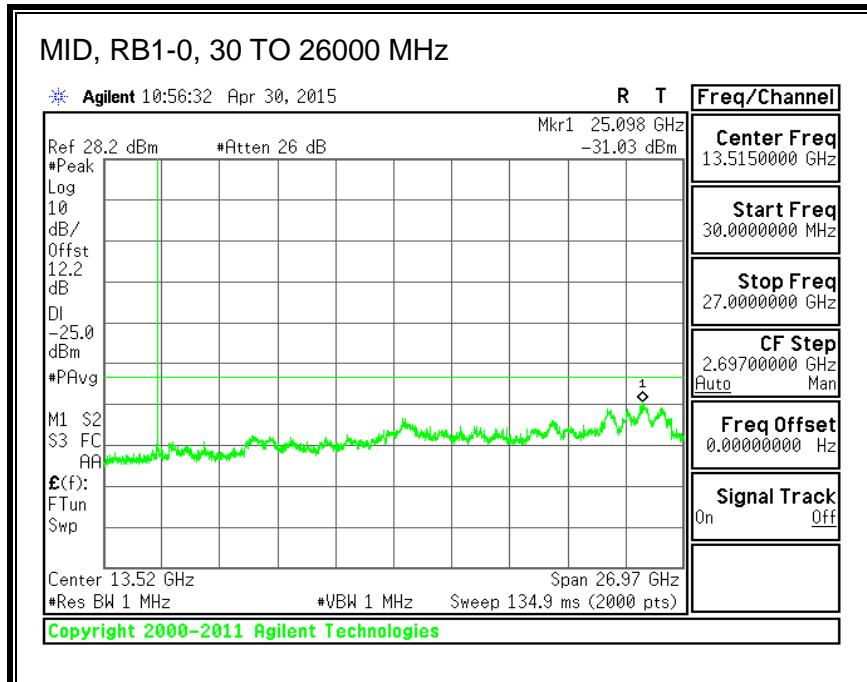
#### QPSK, (5.0 MHz BAND WIDTH)

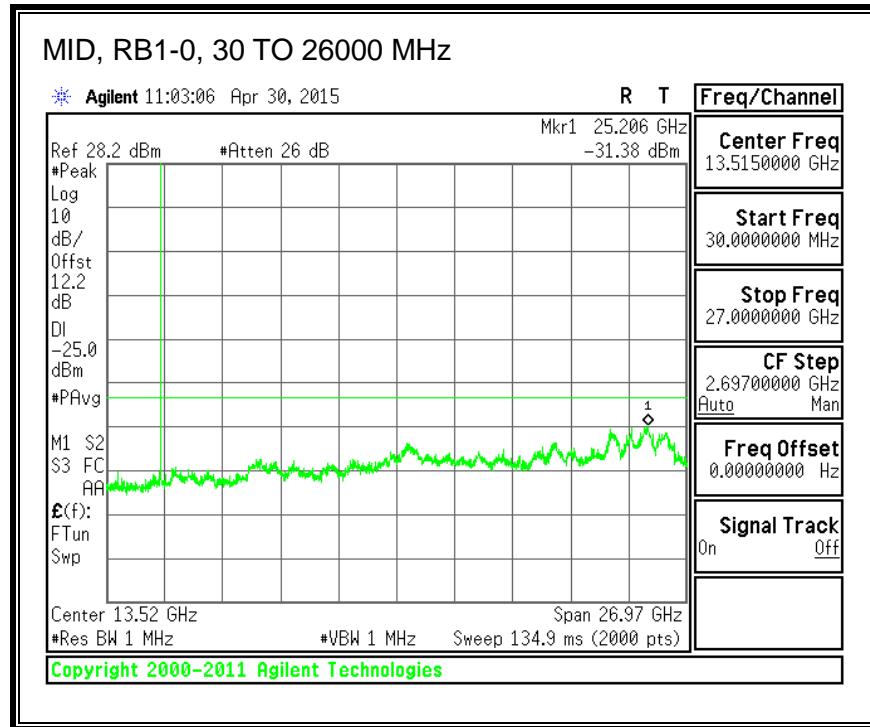
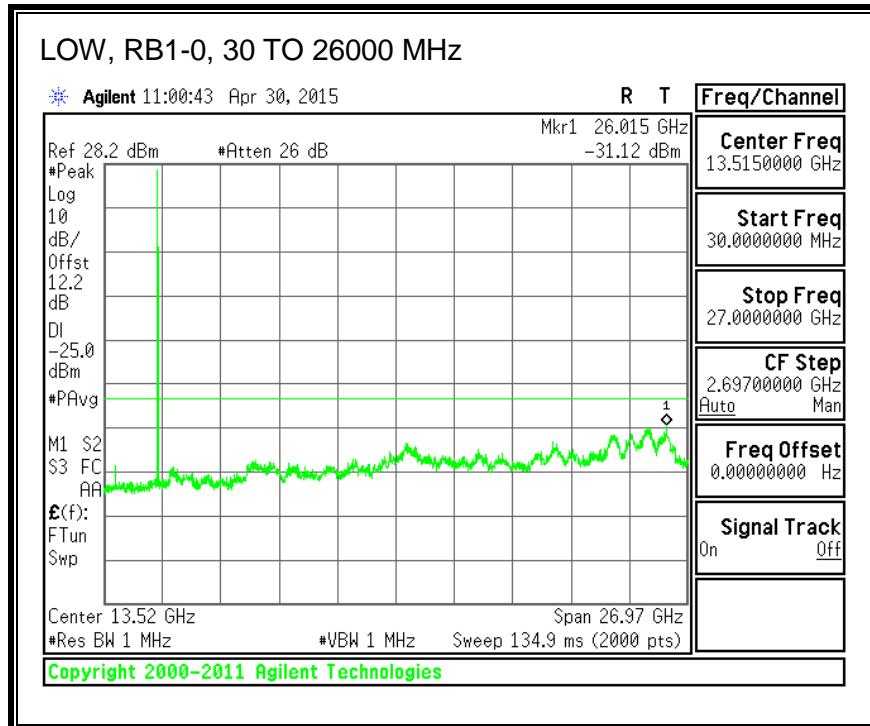




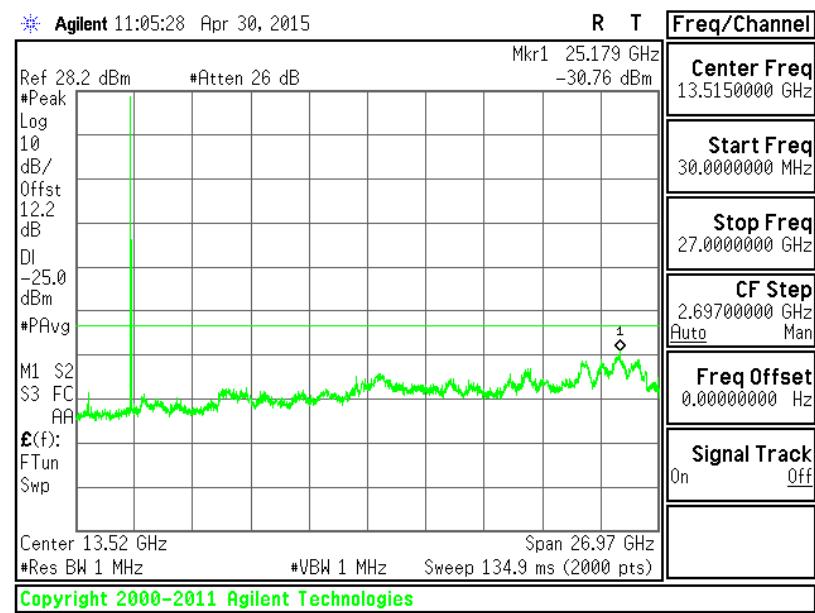
### 16QAM, (5.0 MHz BAND WIDTH)



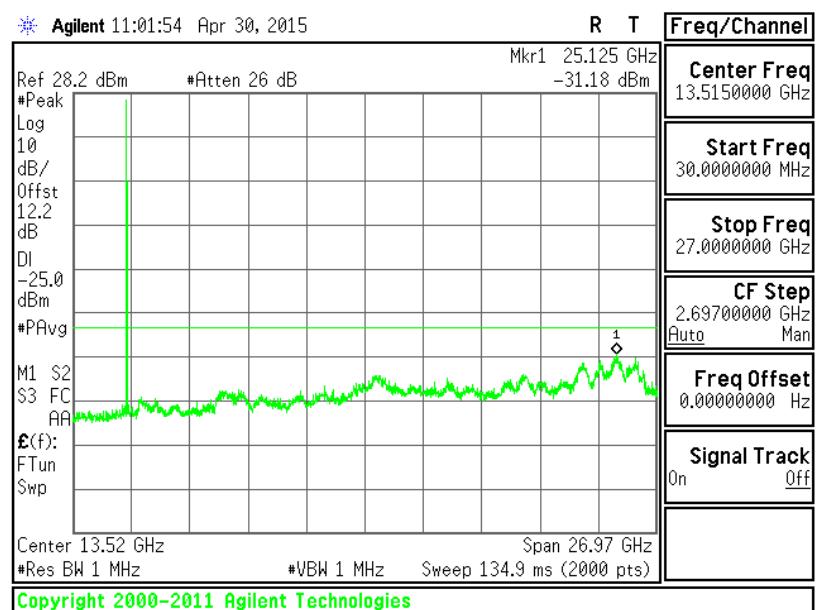


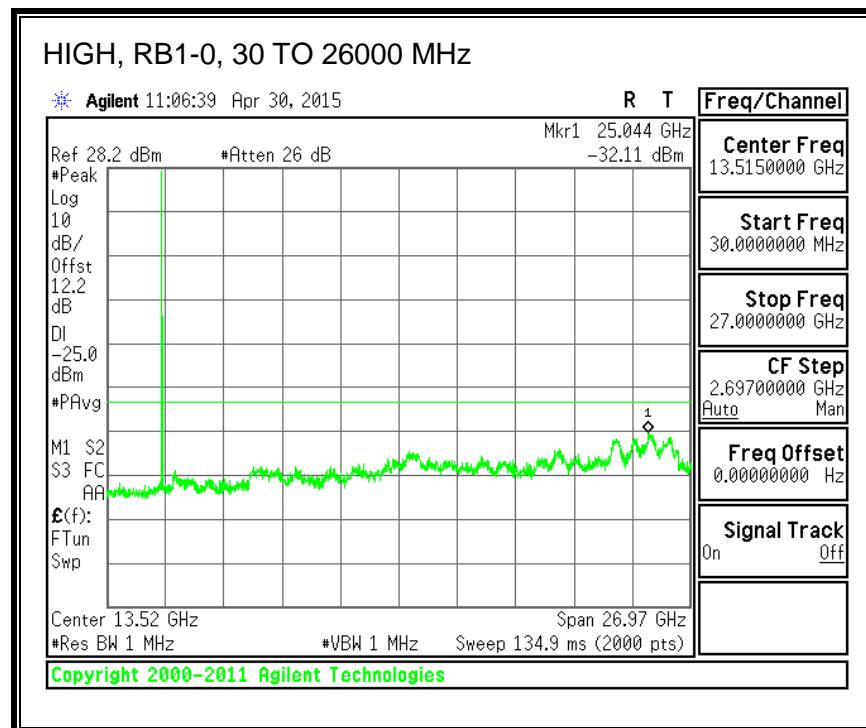
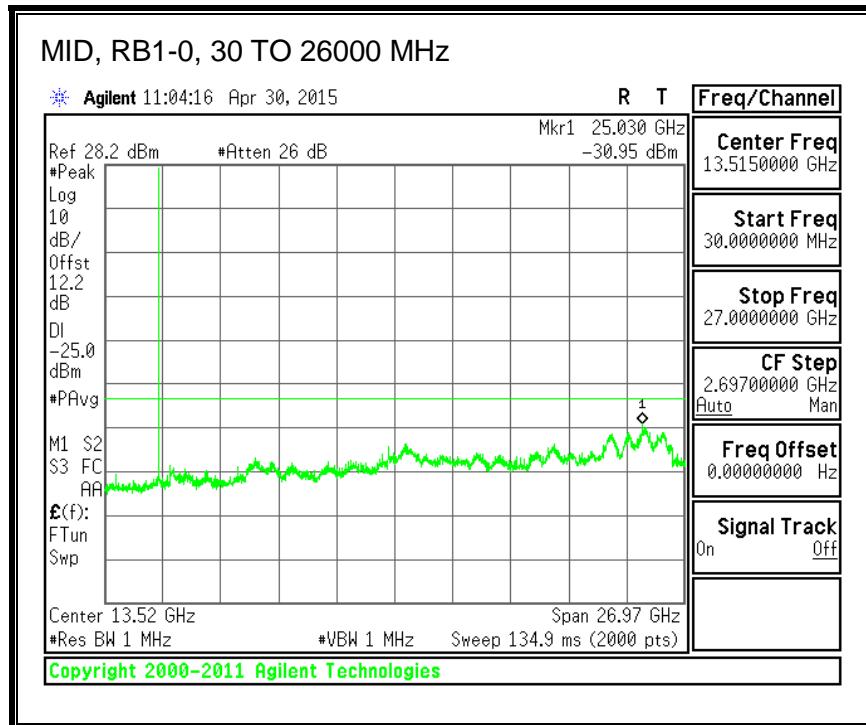
**QPSK, (10.0 MHz BAND WIDTH)**

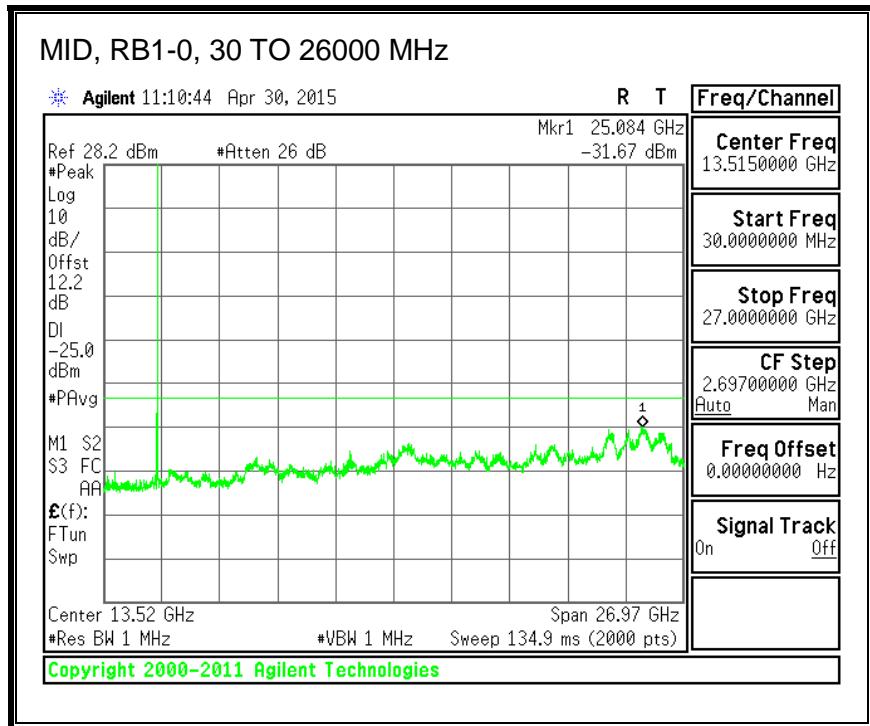
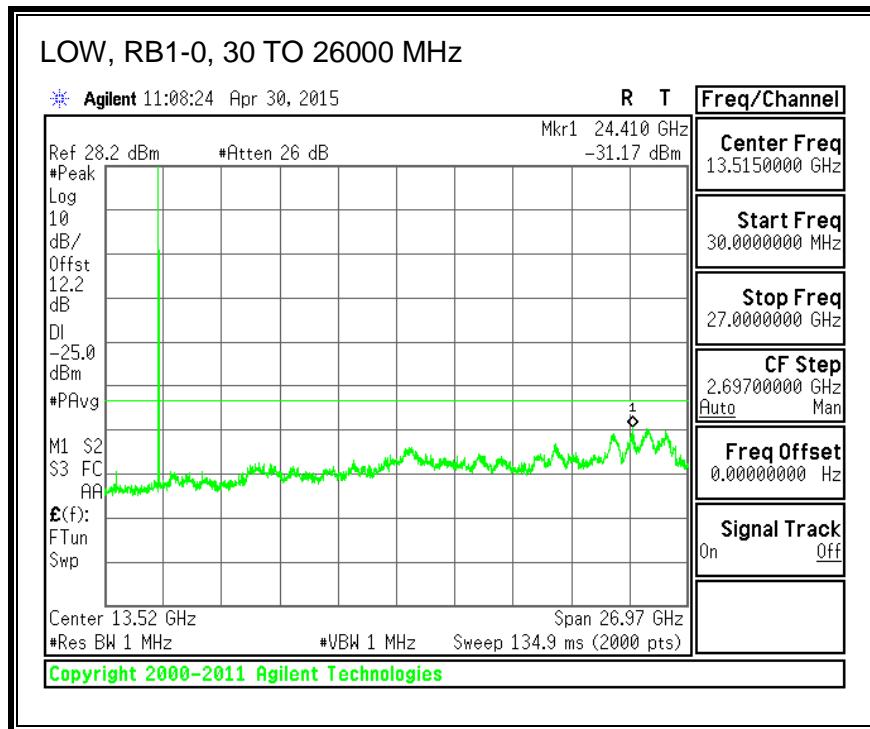
## HIGH, RB1-0, 30 TO 26000 MHz

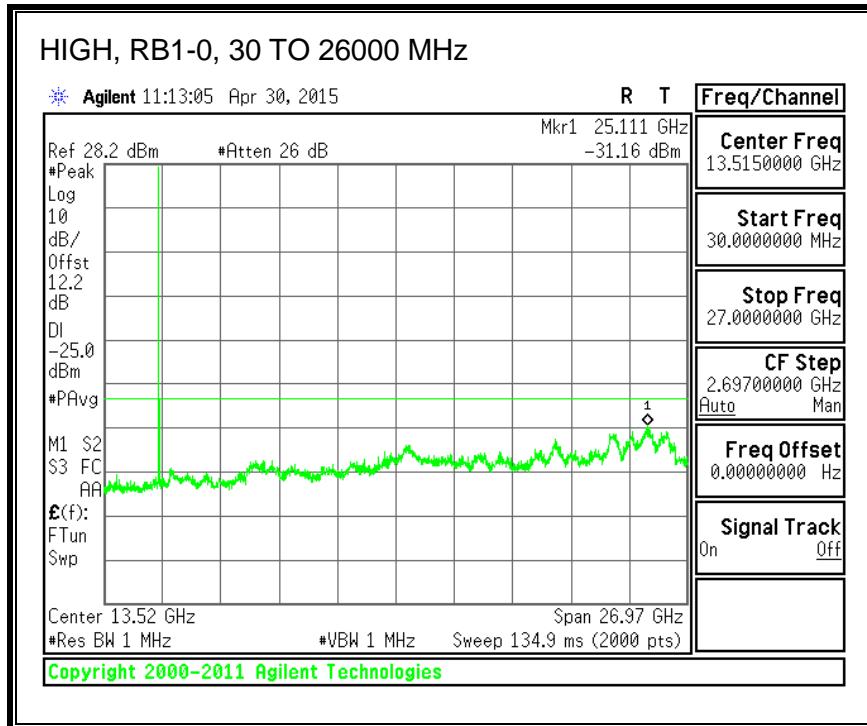
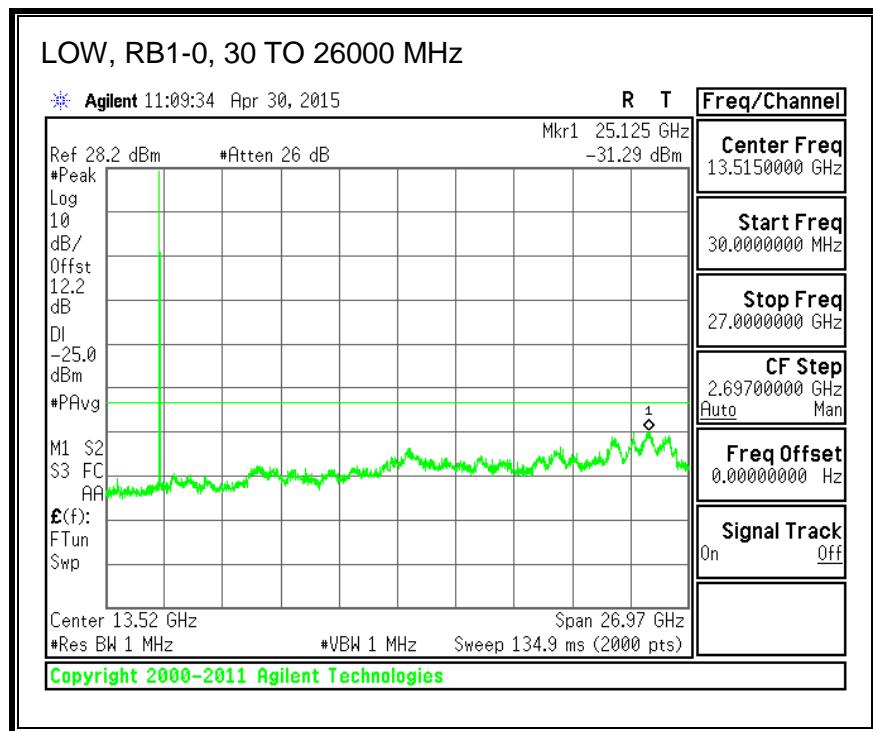
16QAM, (10.0 MHz BAND WIDTH)

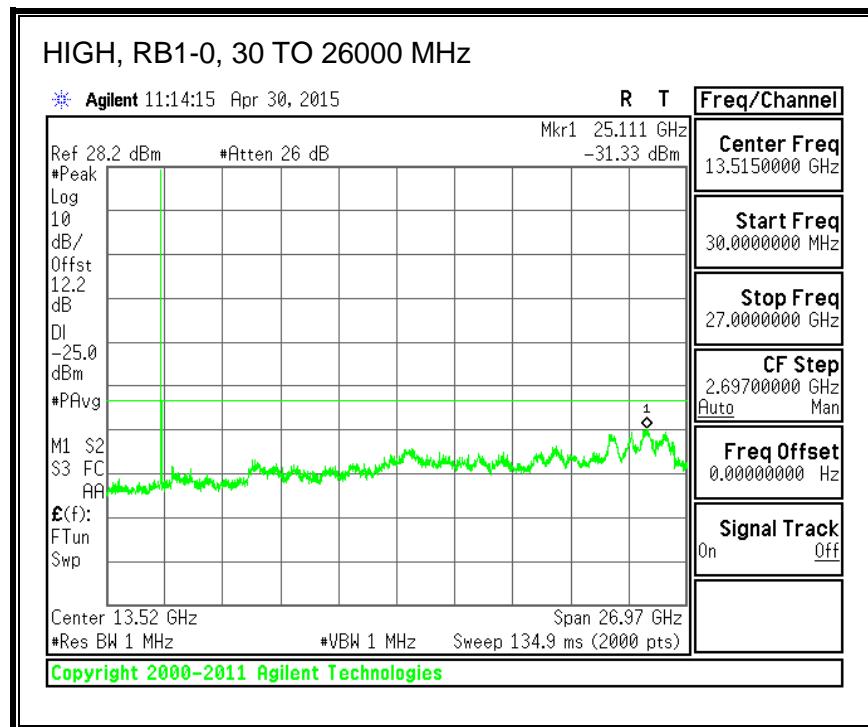
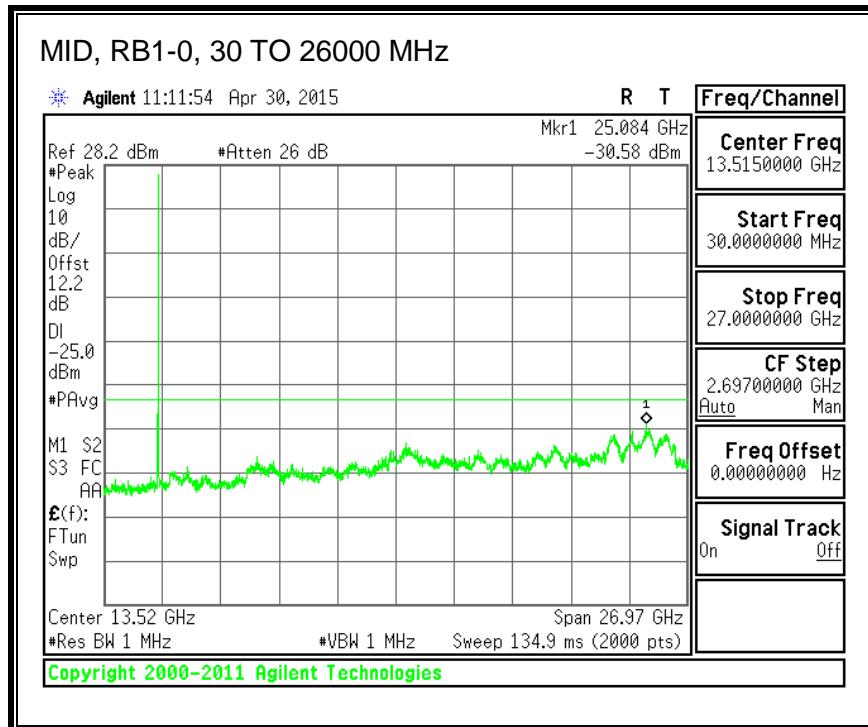
## LOW, RB1-0, 30 TO 26000 MHz

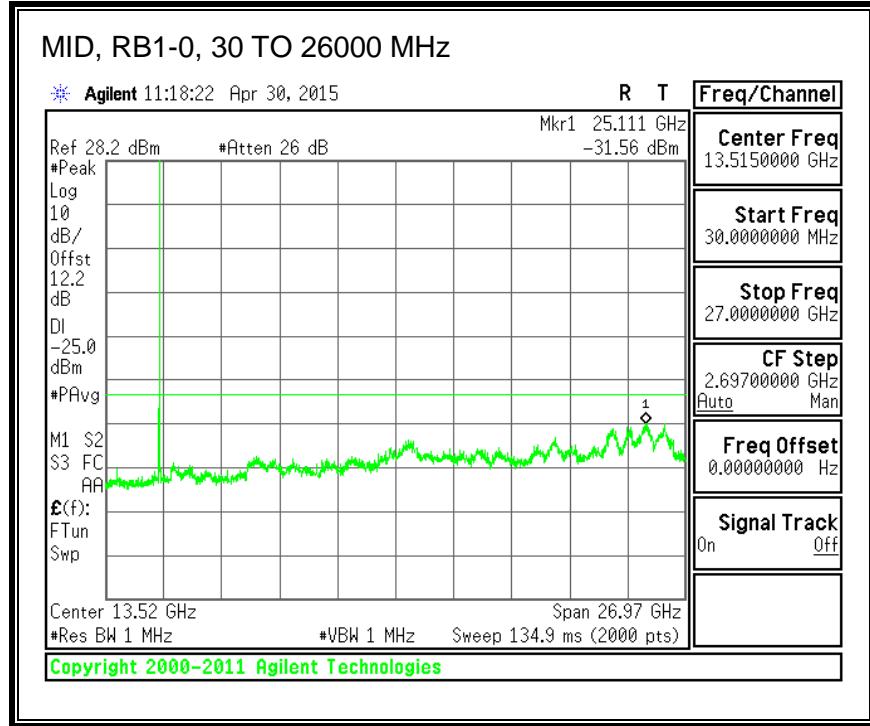
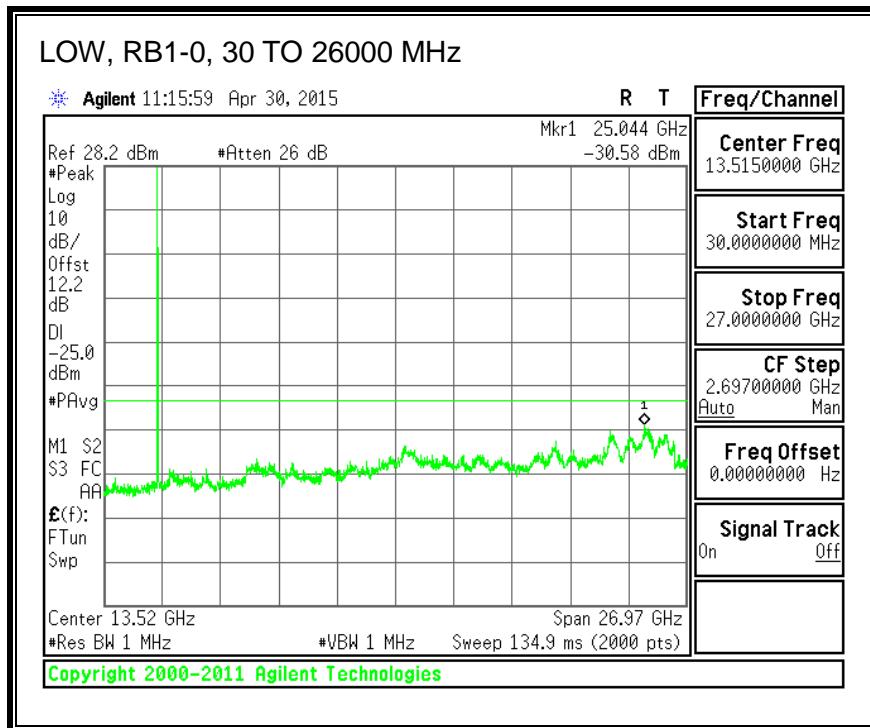


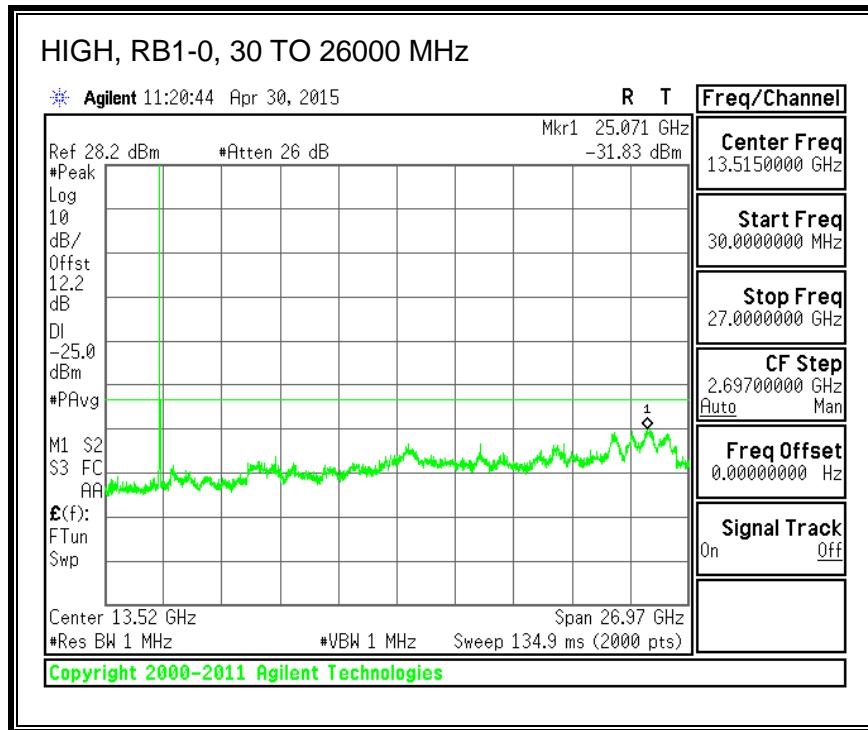


**QPSK, (15.0 MHz BAND WIDTH)**

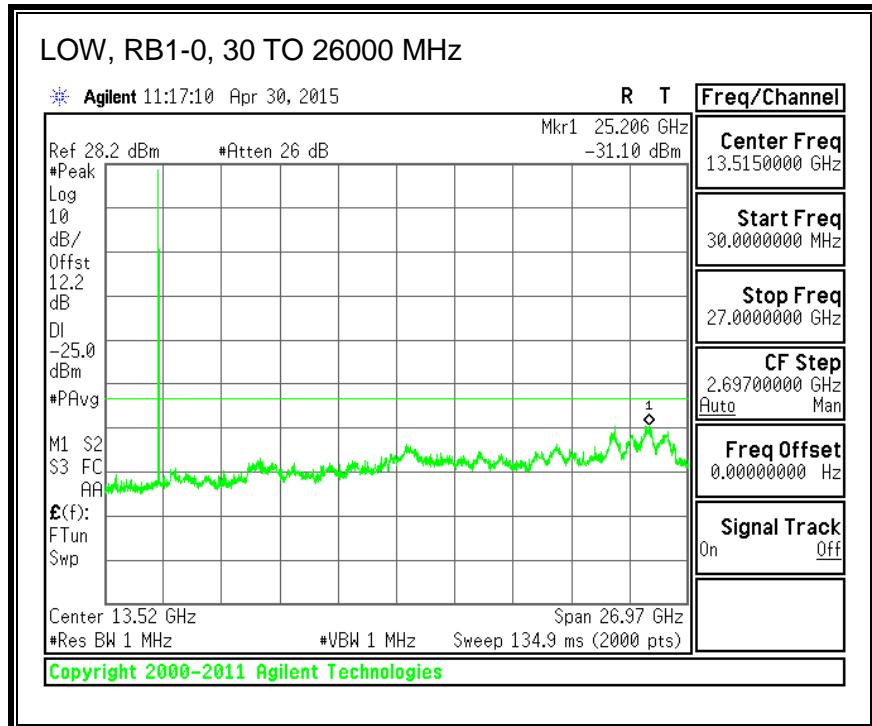
**16QAM, (15.0 MHz BAND WIDTH)**

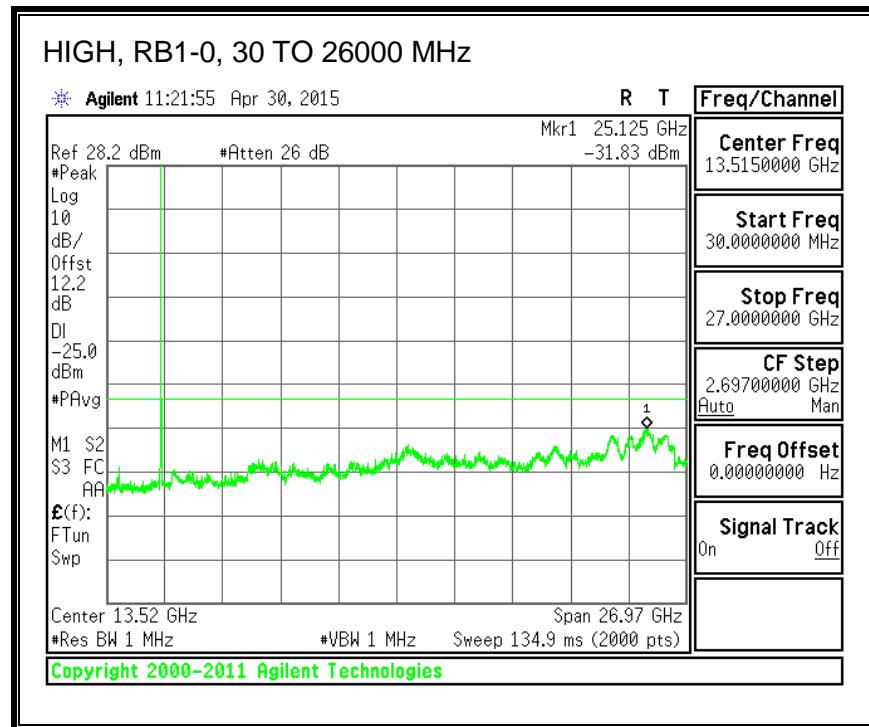
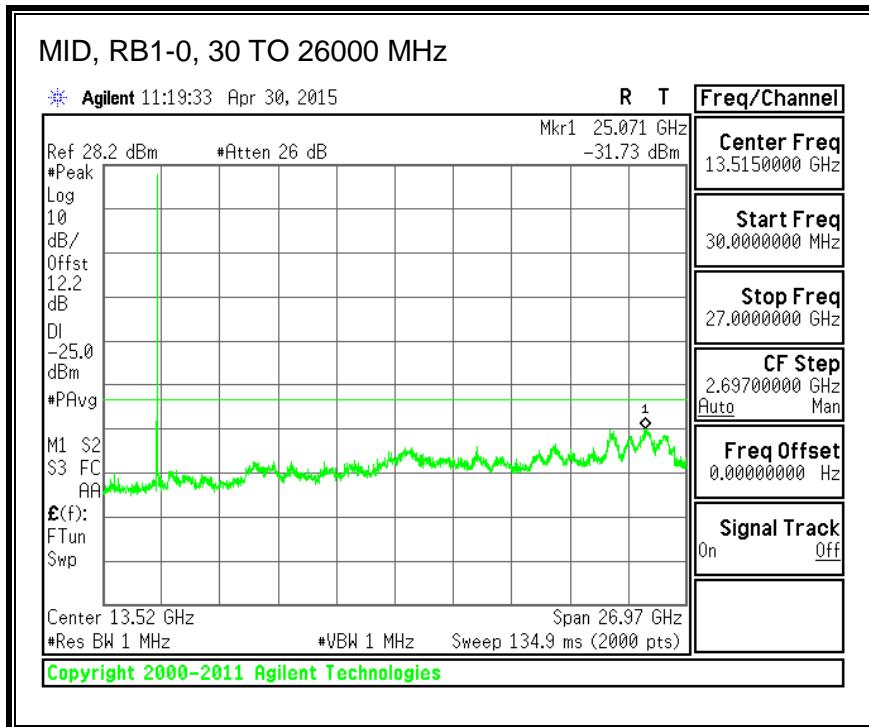


**QPSK, (20.0 MHz BAND WIDTH)**



### 16QAM, (20.0 MHz BAND WIDTH)





**8.5.5. LTE BAND 12****QPSK, (1.4 MHz BAND WIDTH)**