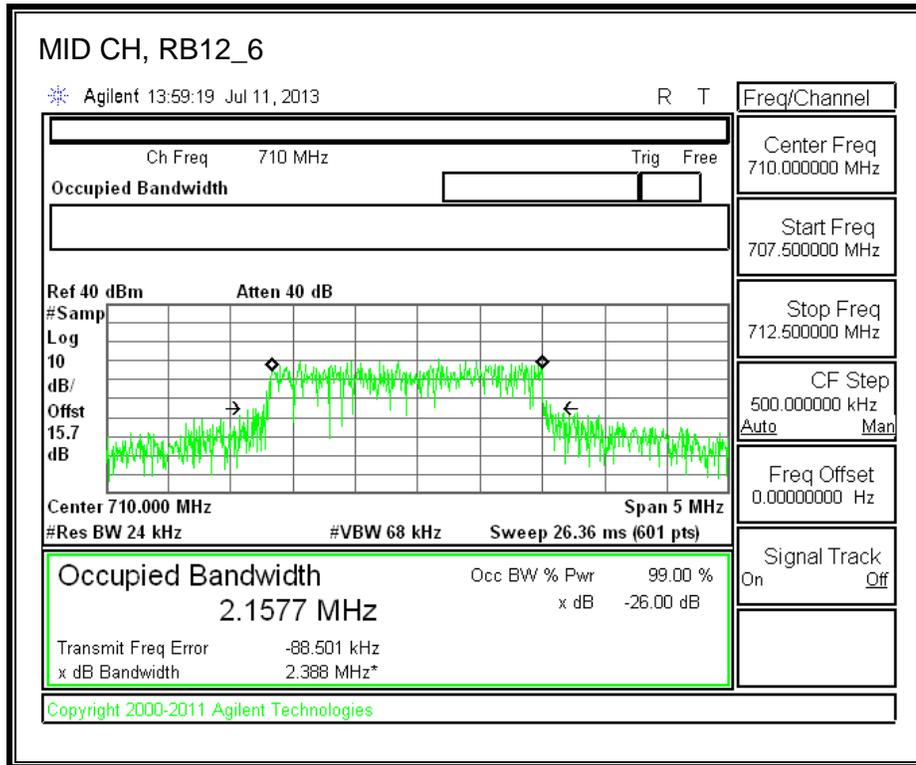
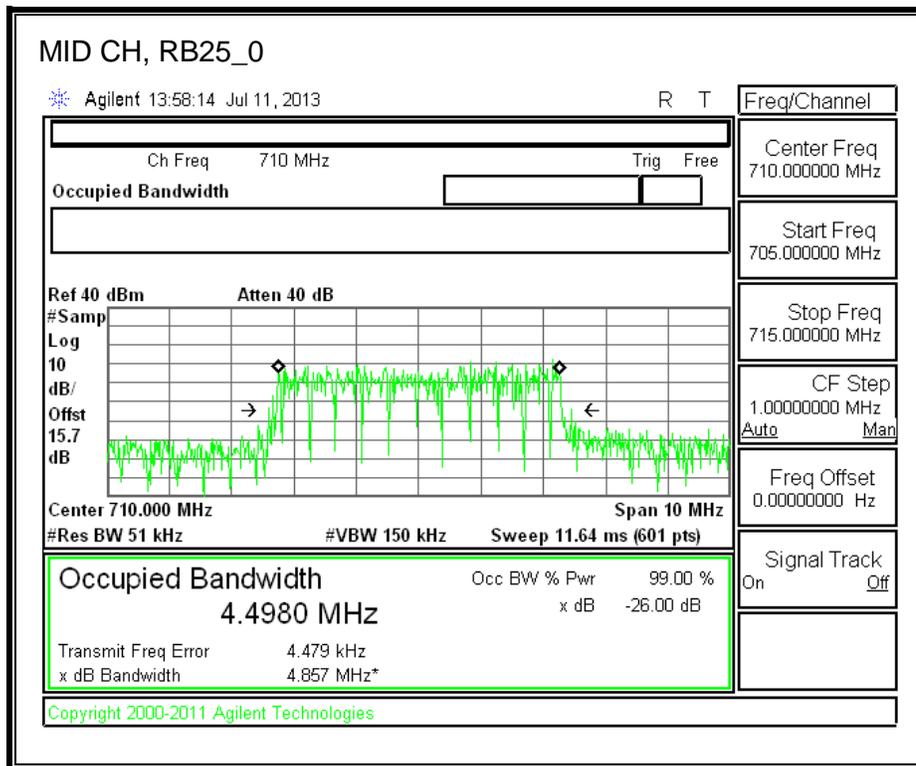
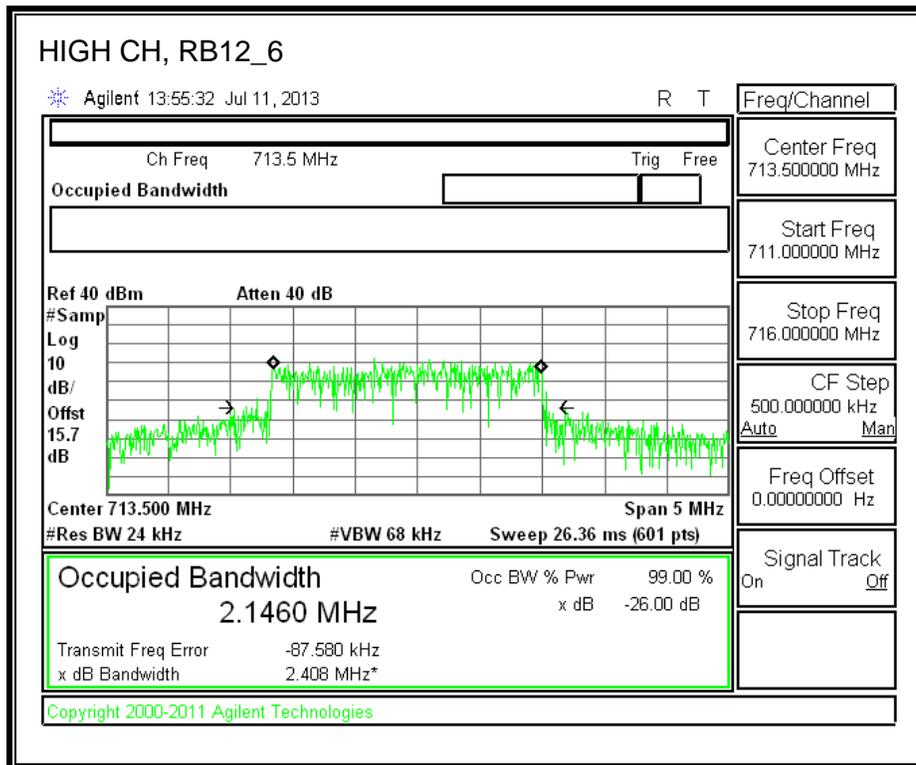


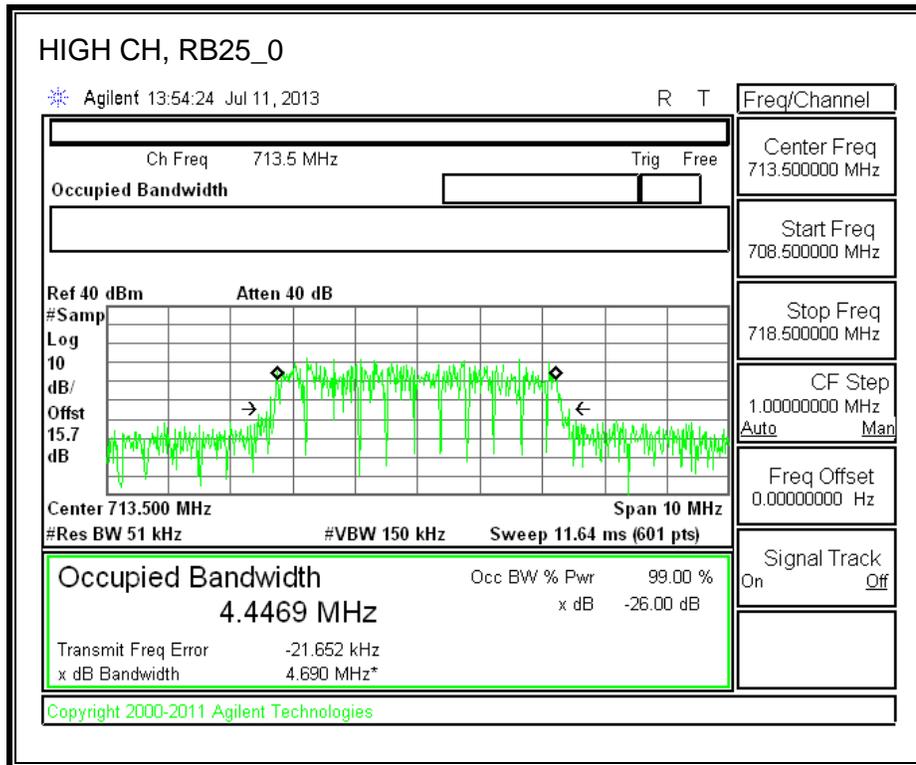
**MID-16QAM**



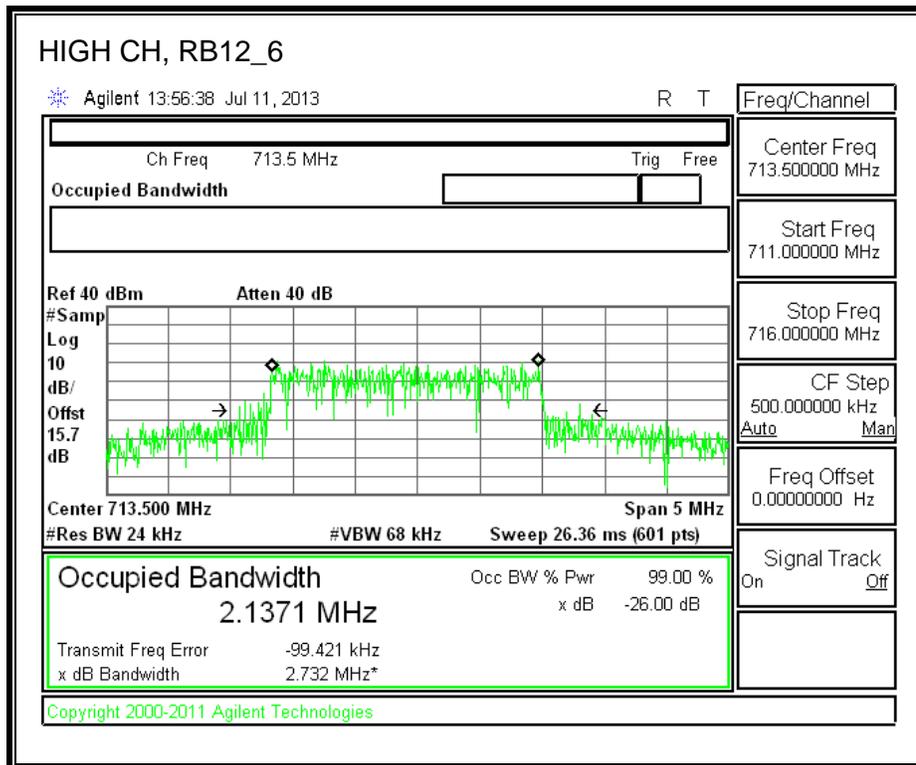


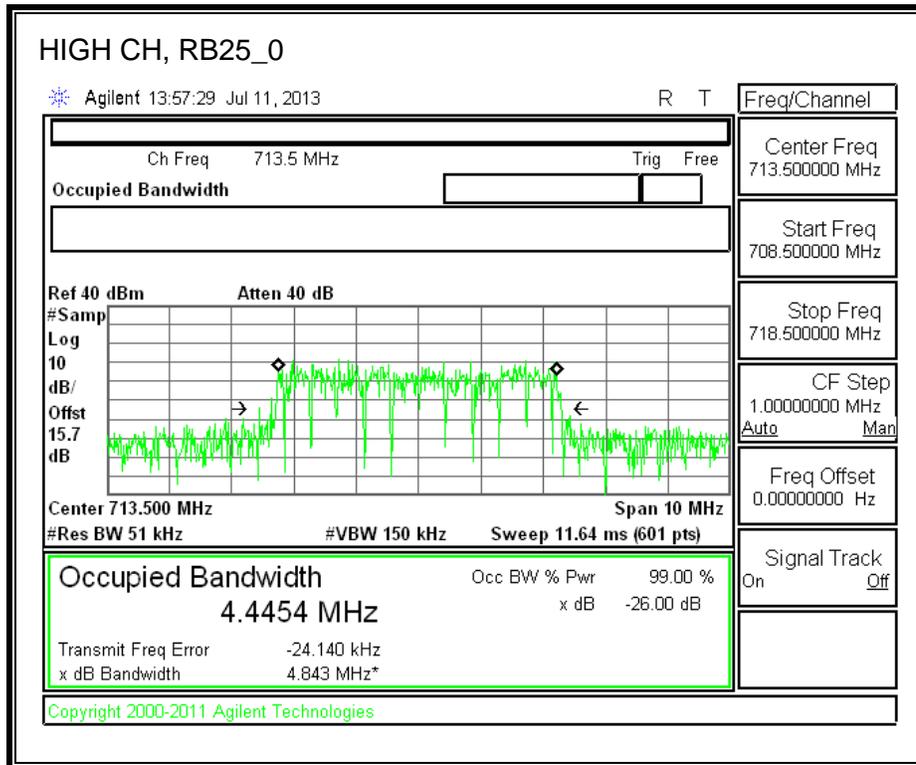
**HIGH-QPSK**





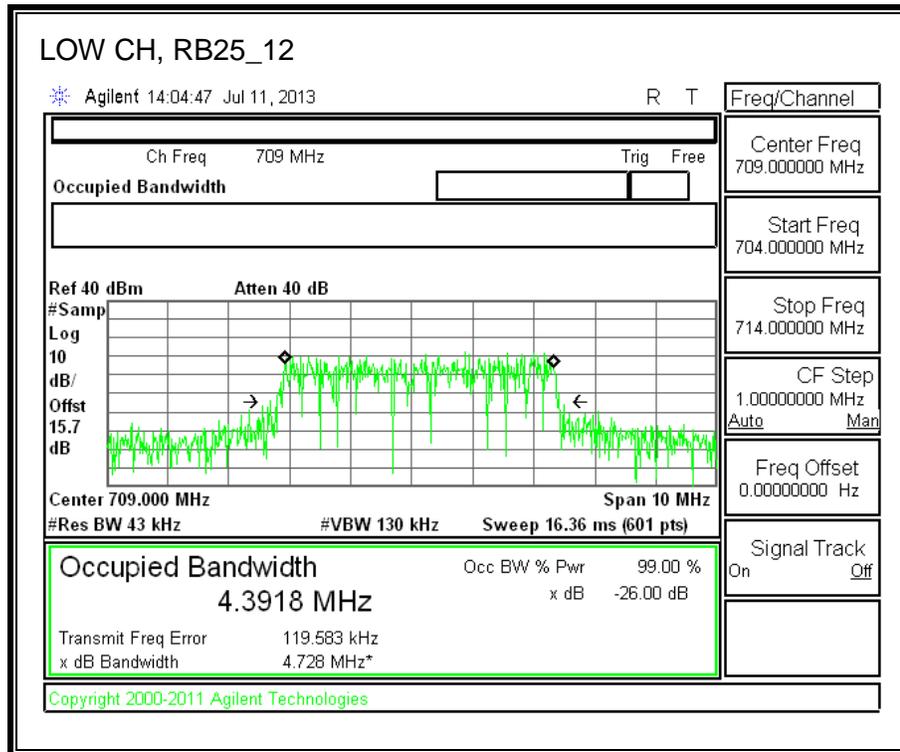
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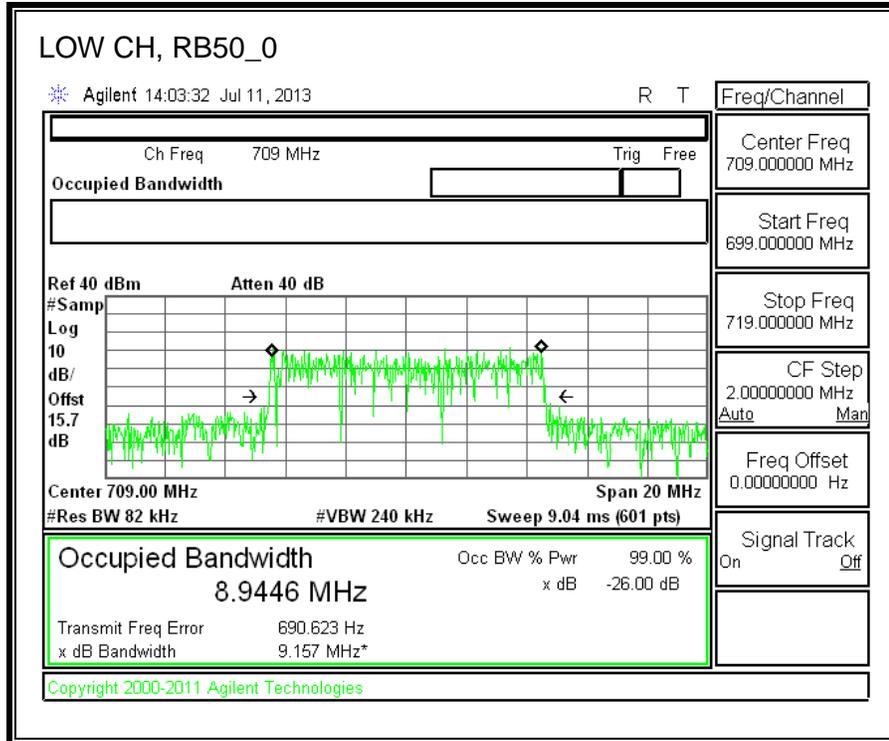




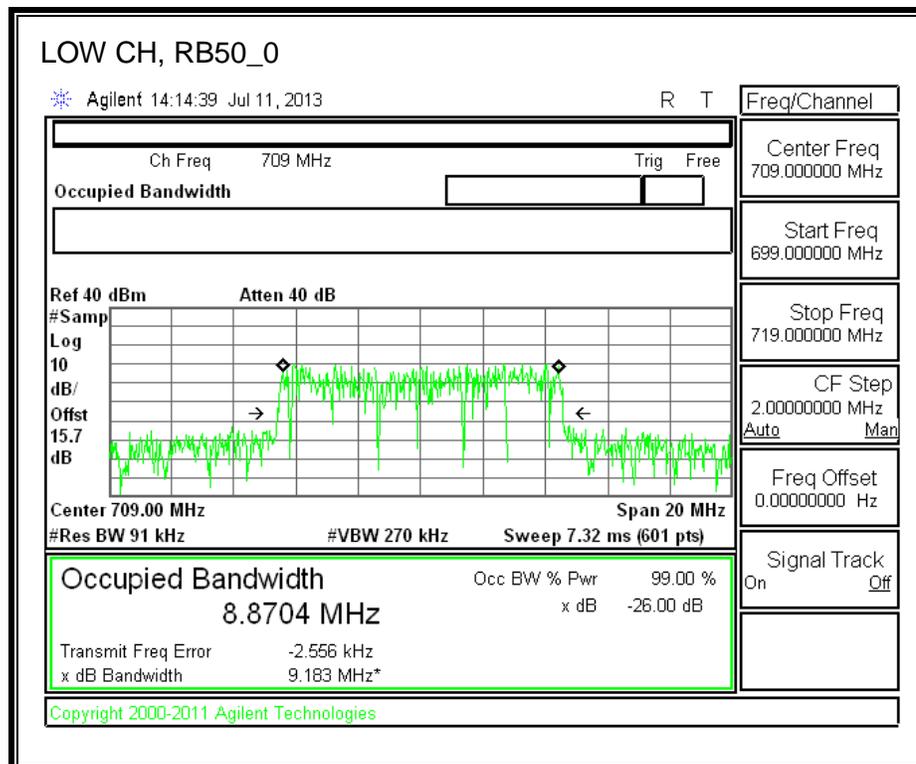
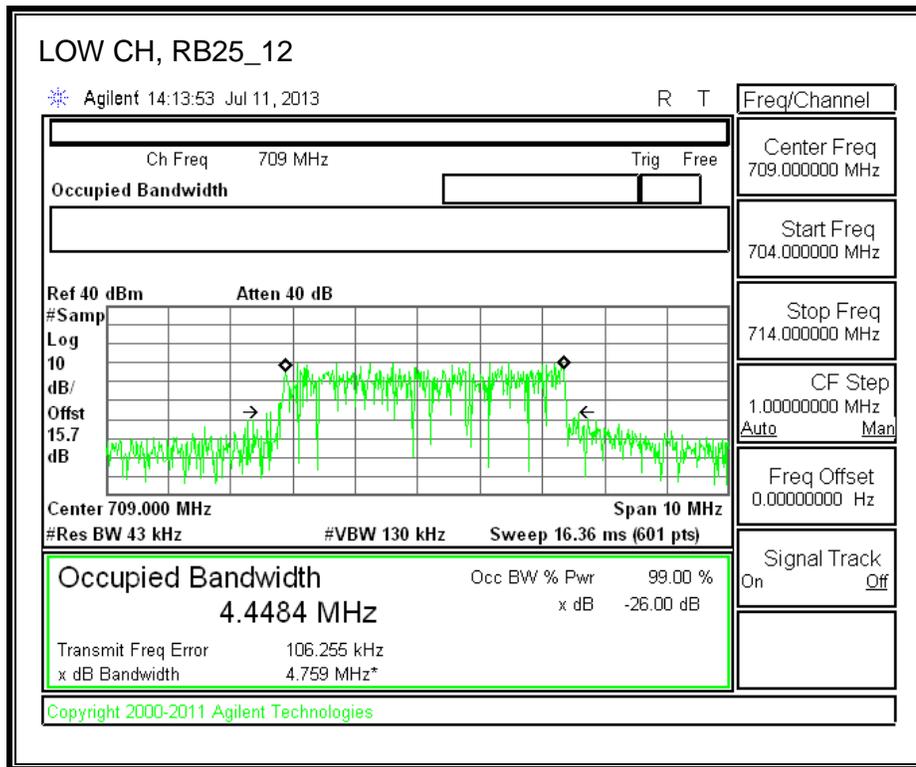
### 10.1.2. LTE BAND 17-10MHz BANDWIDTH

#### LOW-QPSK

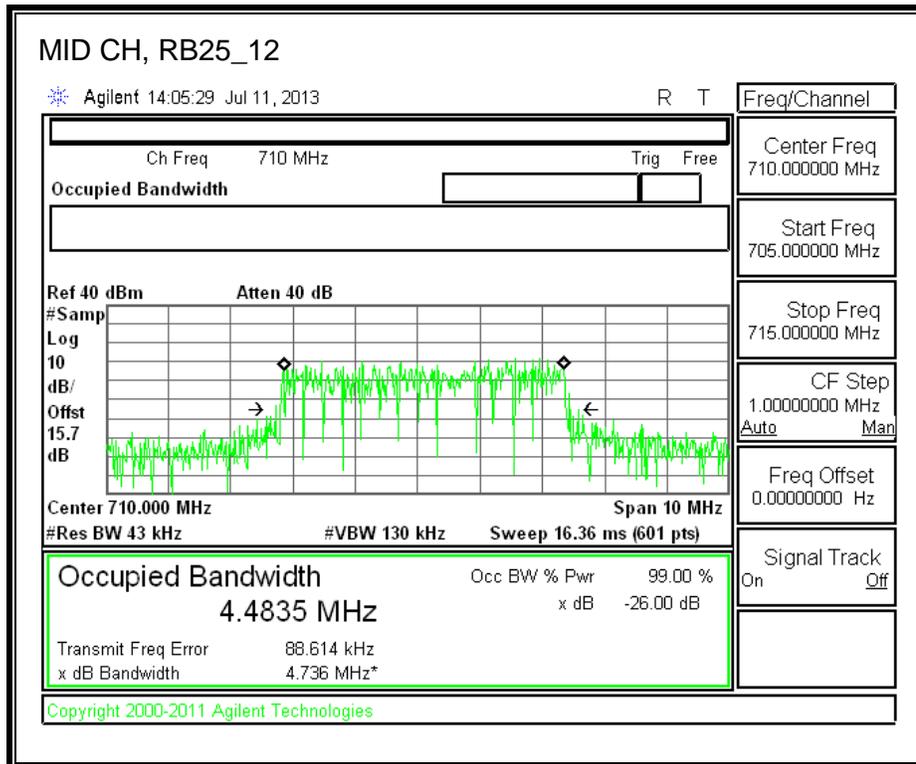


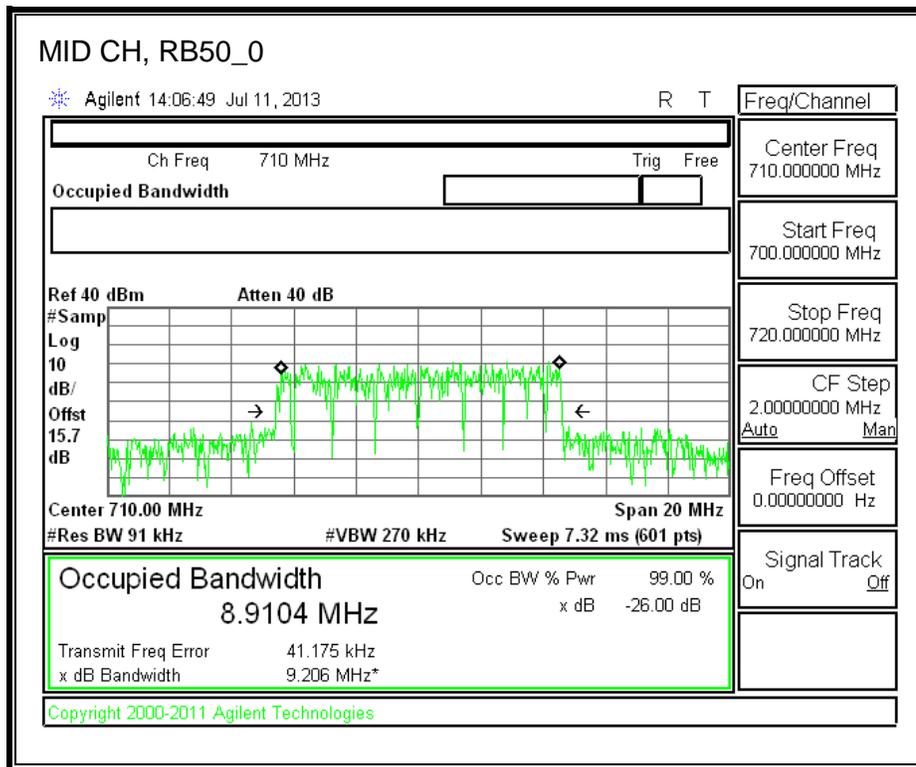


**LOW-16QAM**

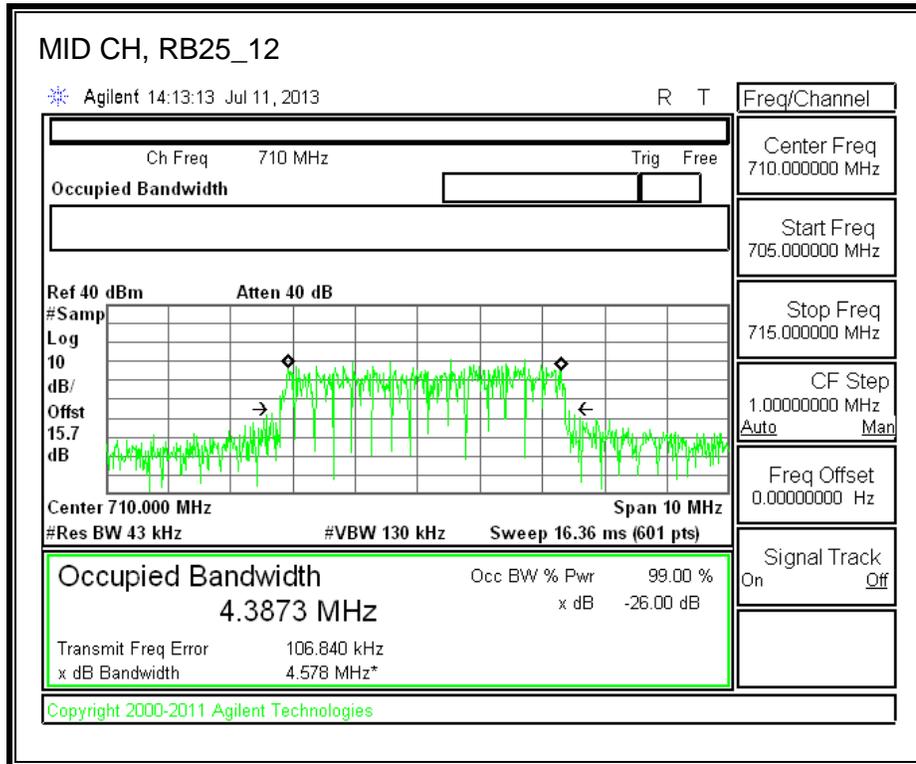


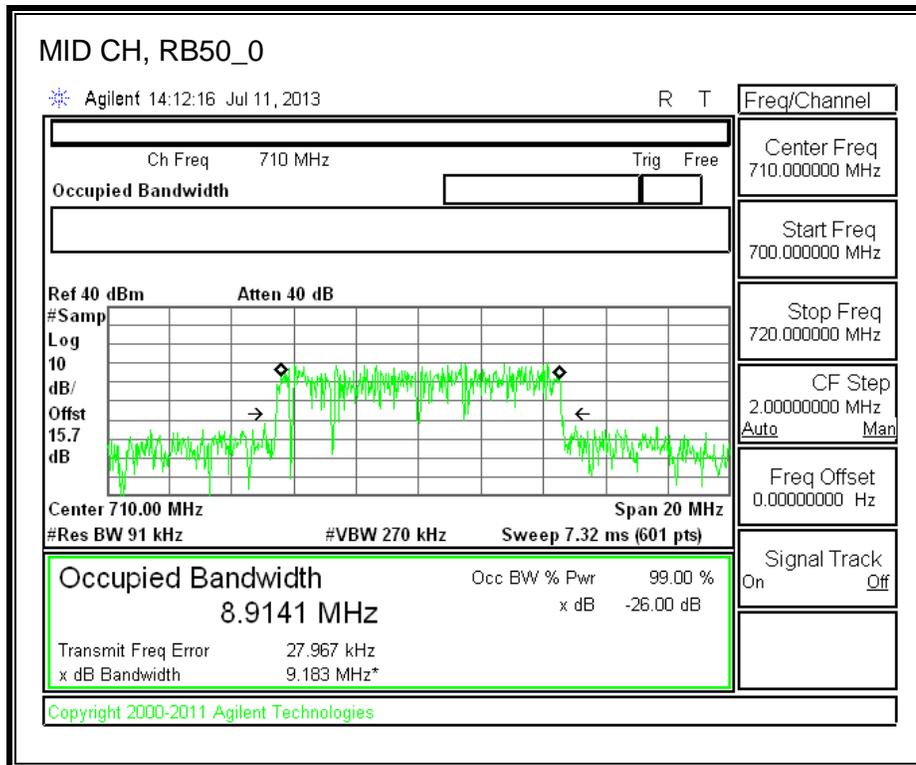
**MID-QPSK**



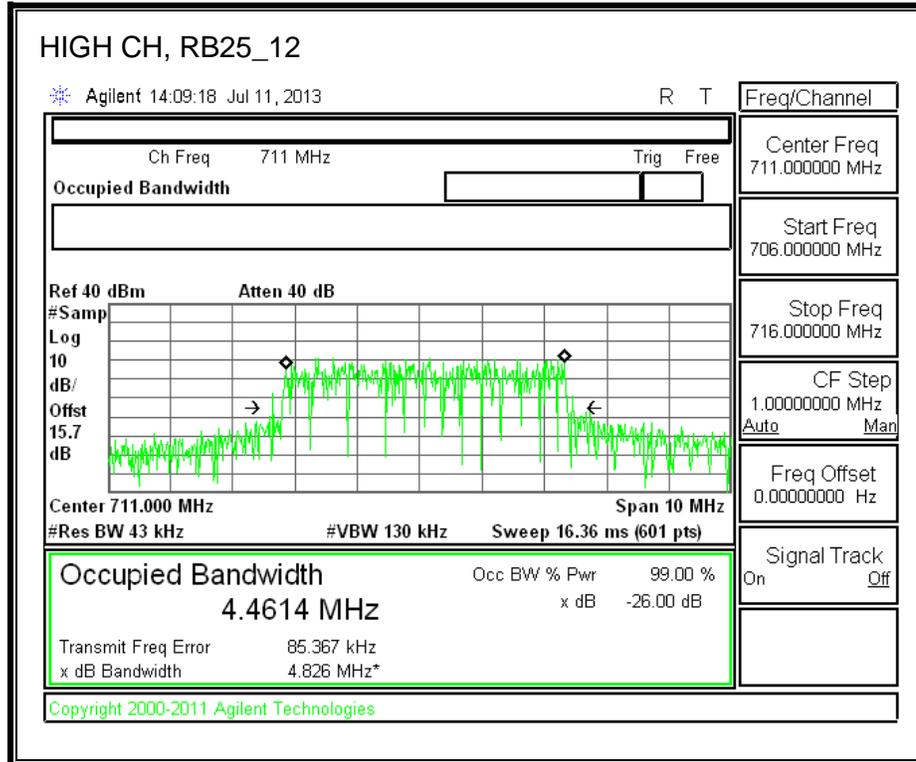


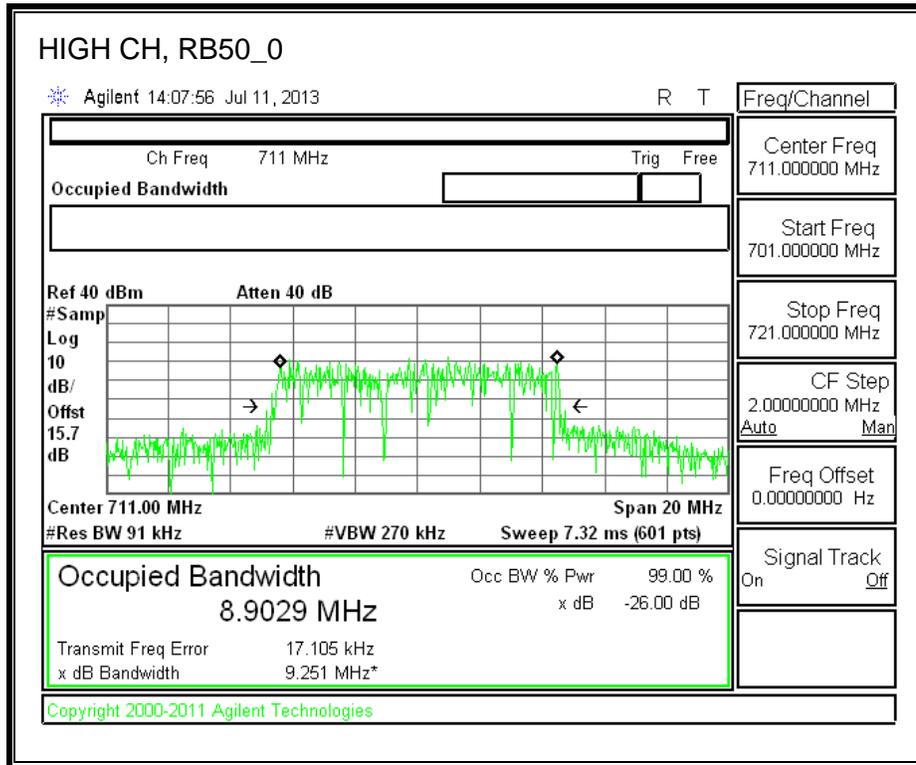
**MID-16QAM**



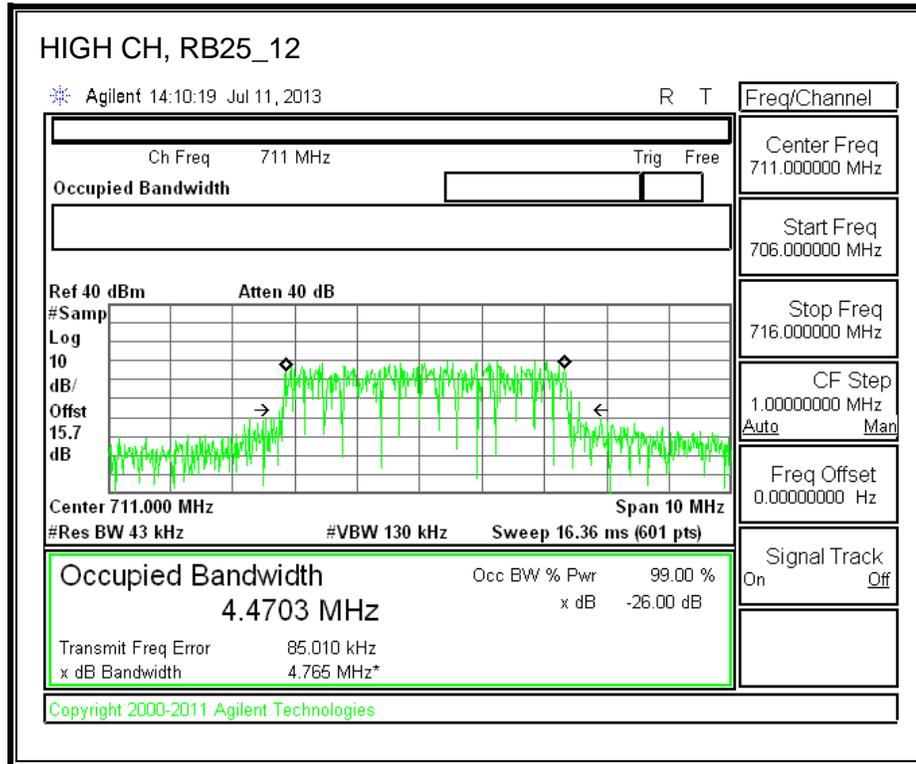


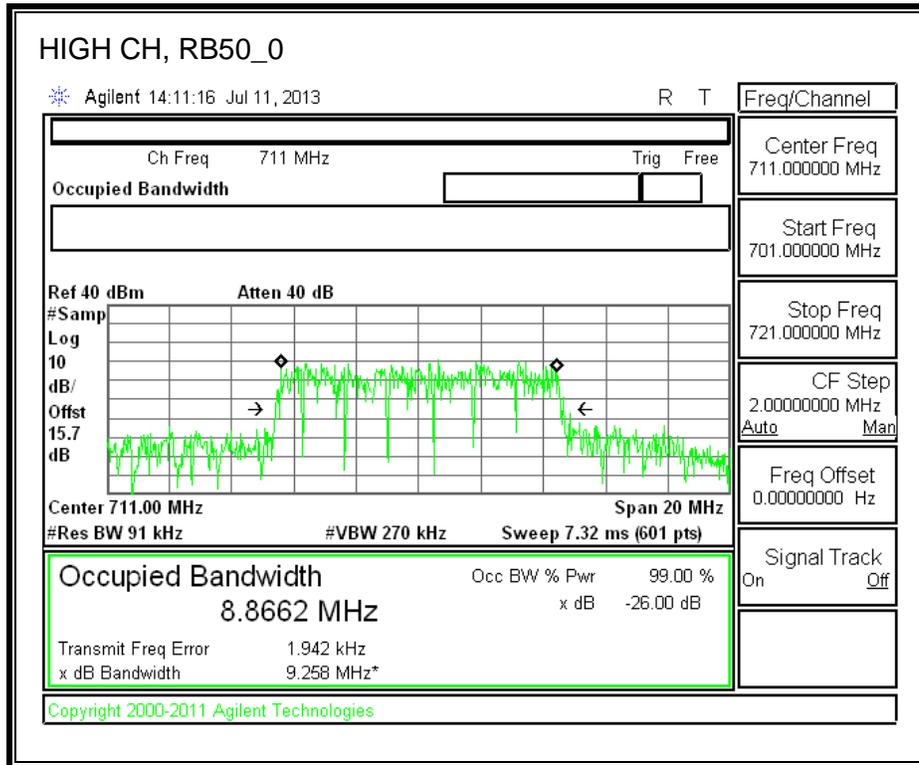
**HIGH-QPSK**





**HIGH-16QAM**

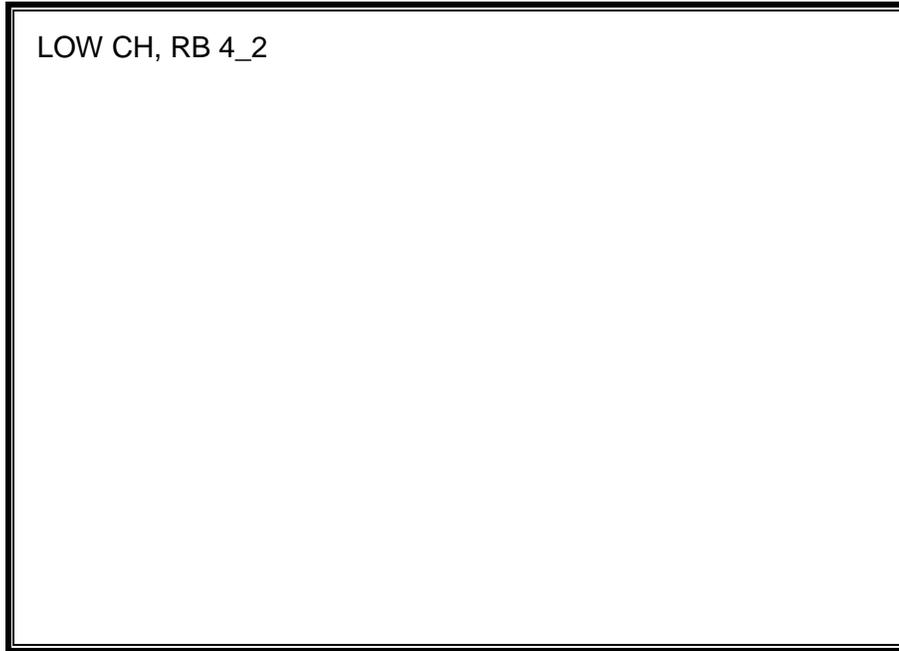


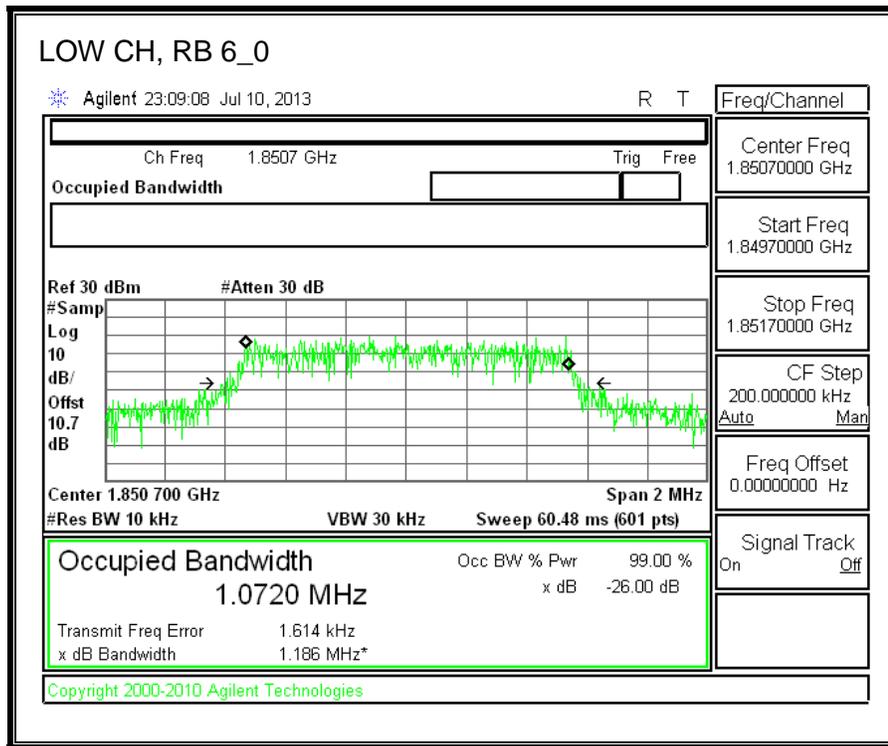


## 10.2. LTE Band 25

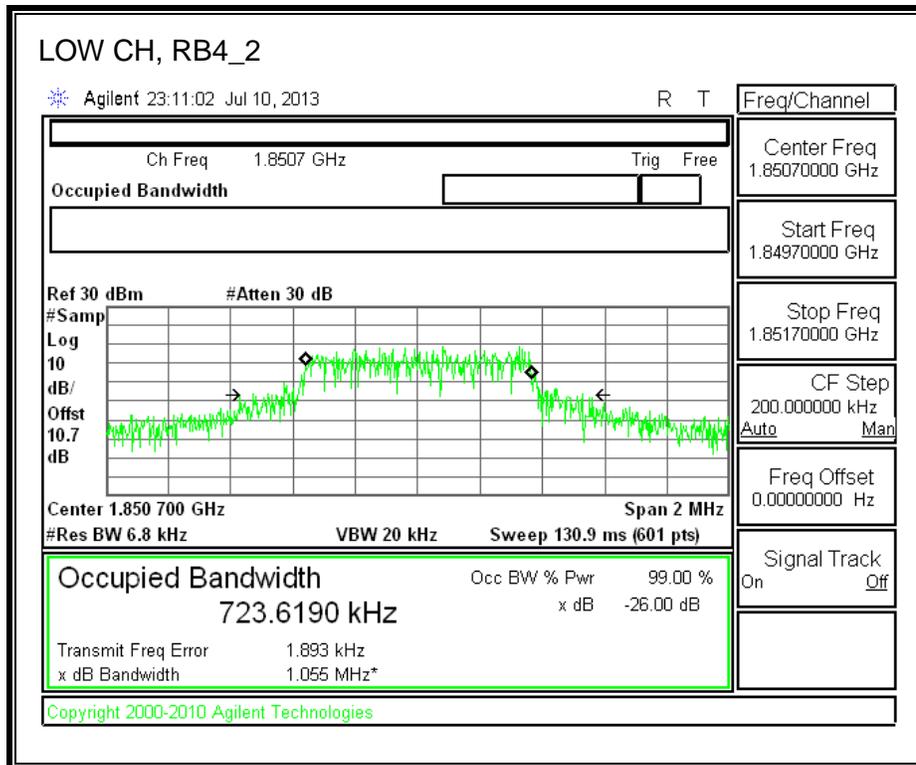
### 10.2.1. LTE BAND 25-1.4MHz BANDWIDTH

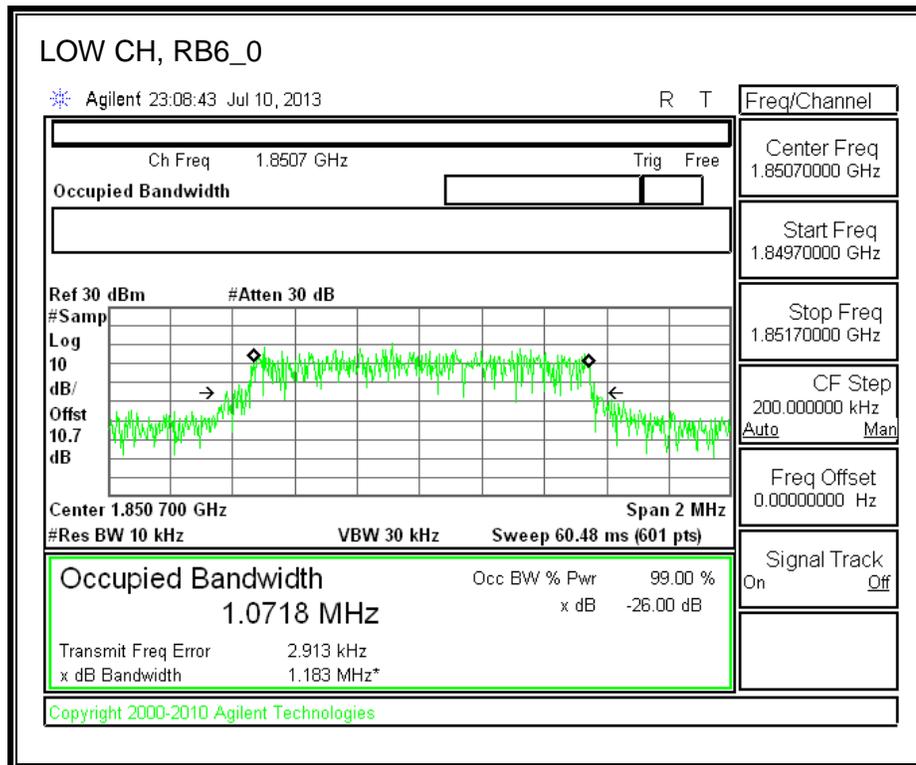
#### LOW-QPSK



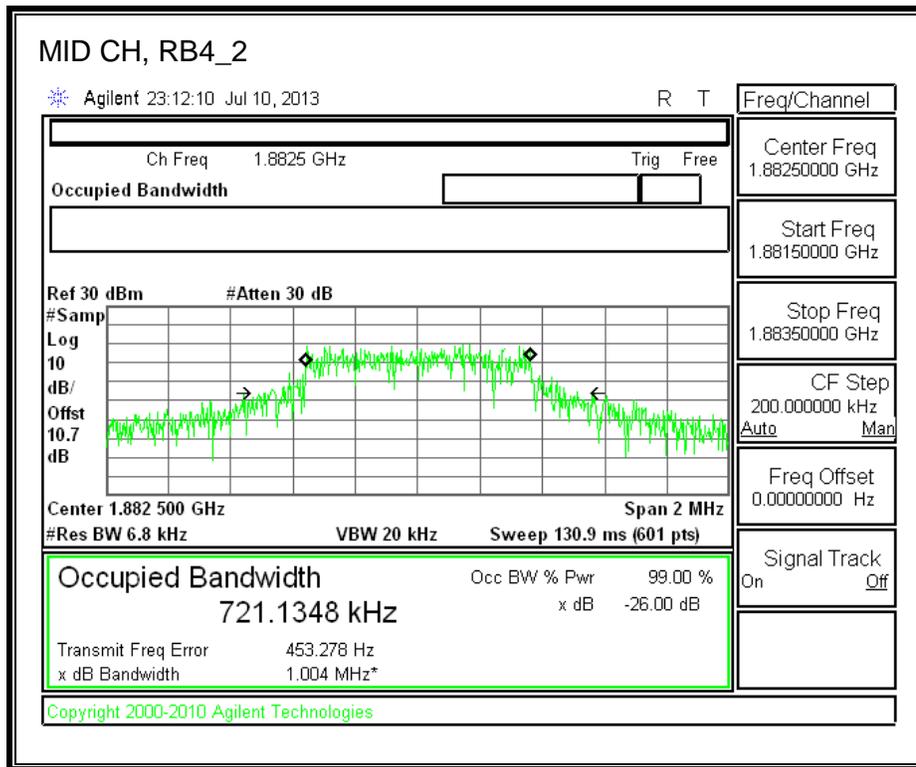


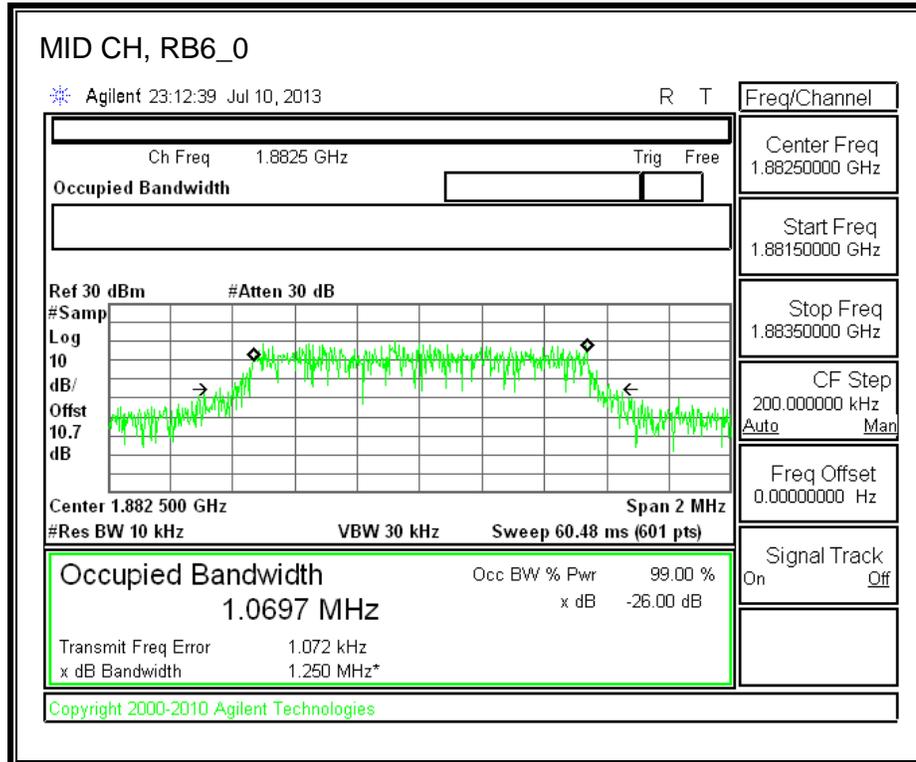
**LOW-16QAM**



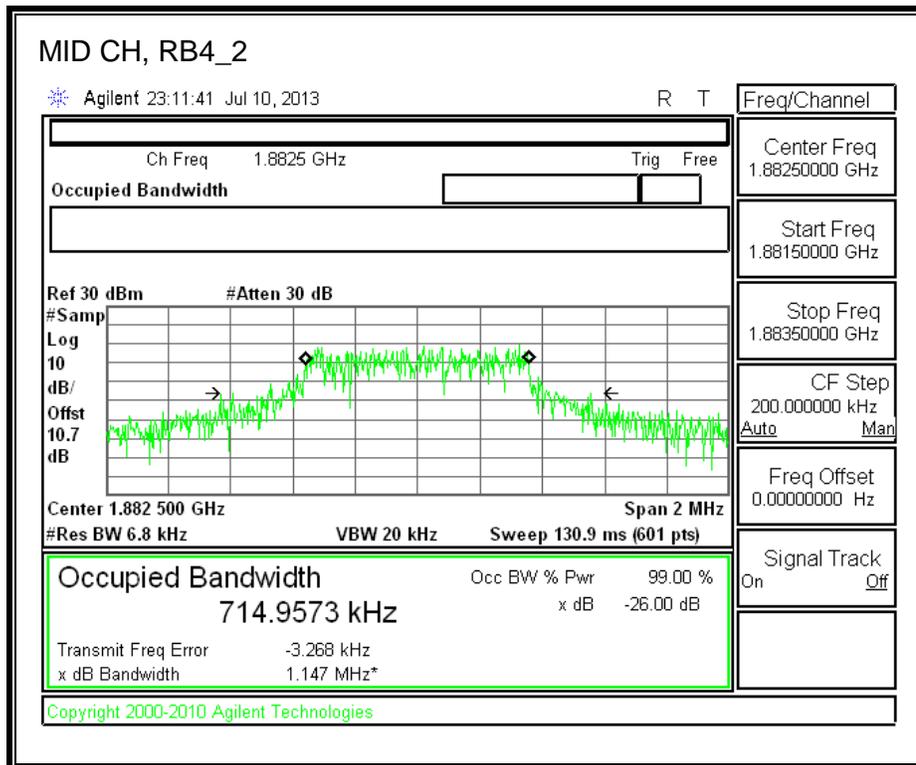


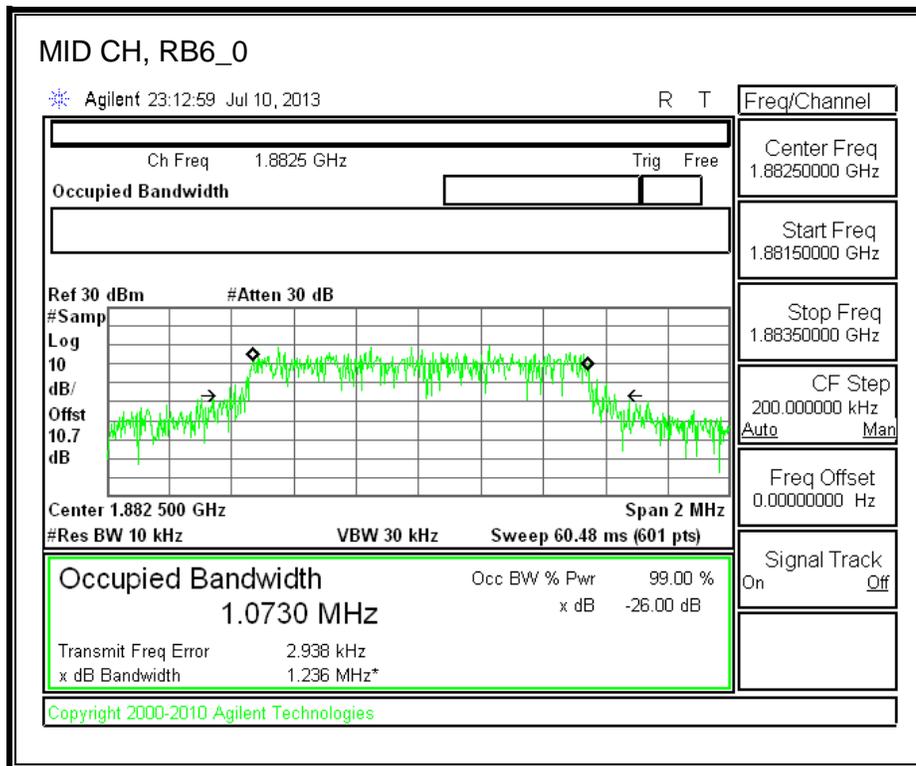
**MID-QPSK**



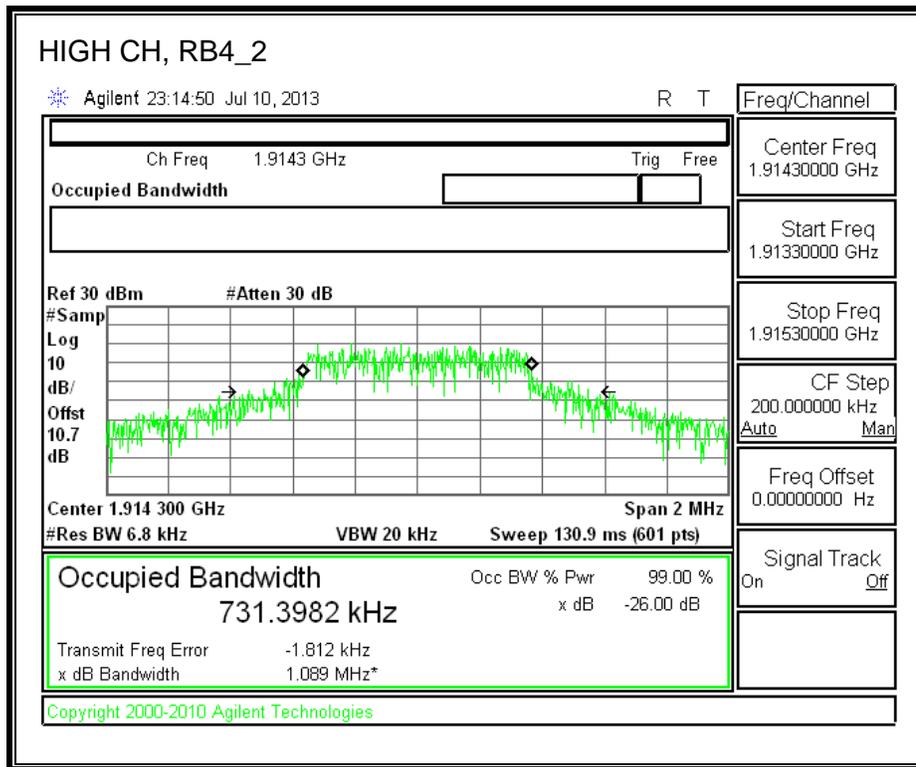


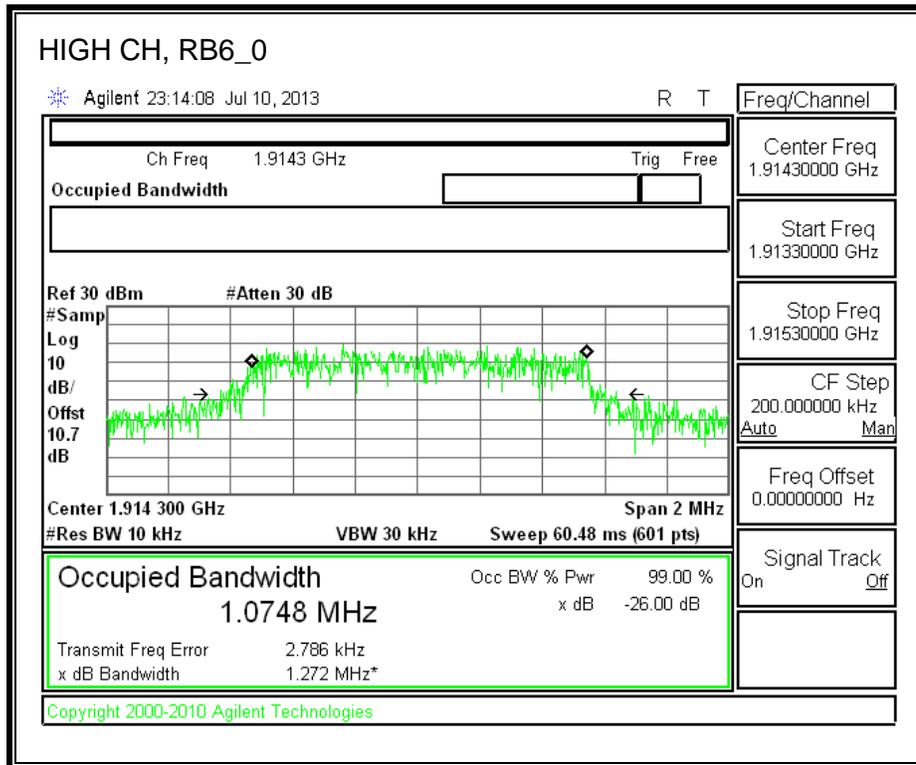
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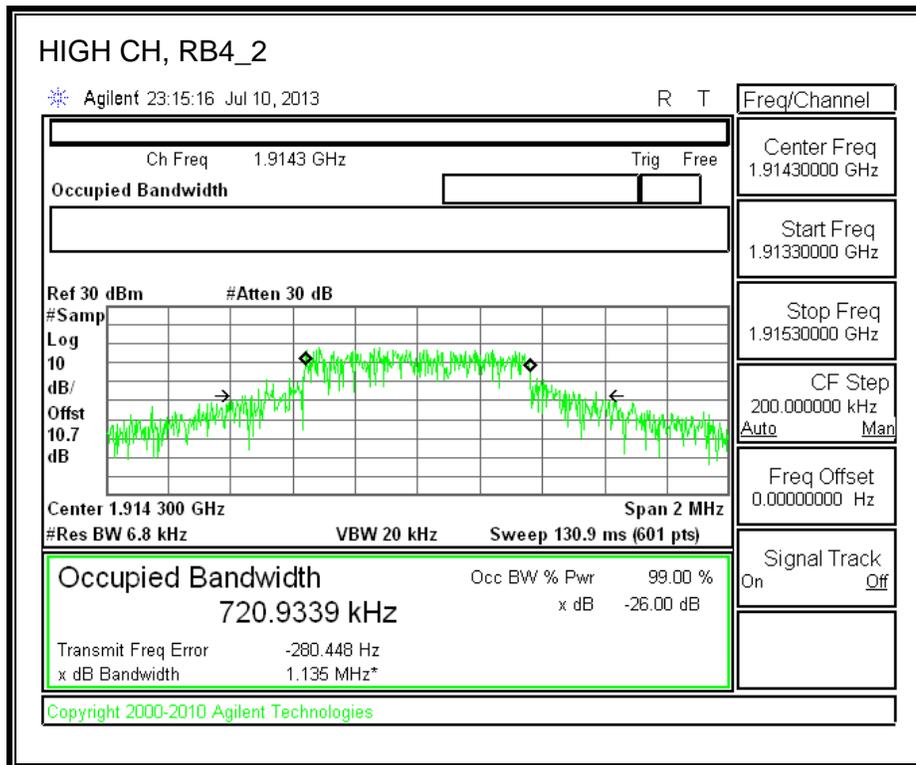


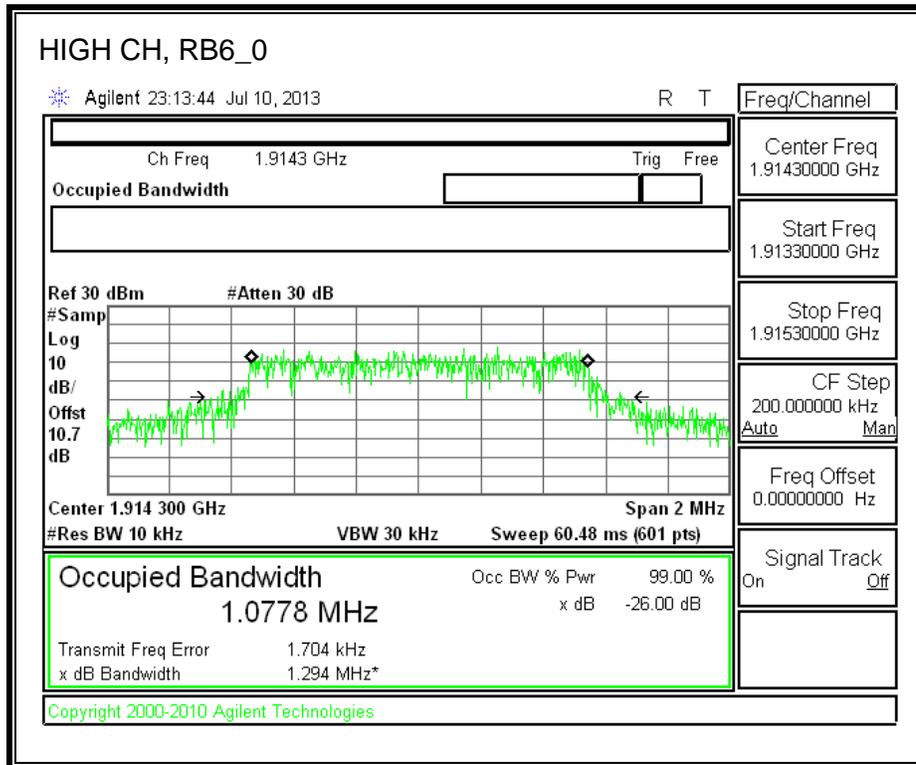
**HIGH-QPSK**





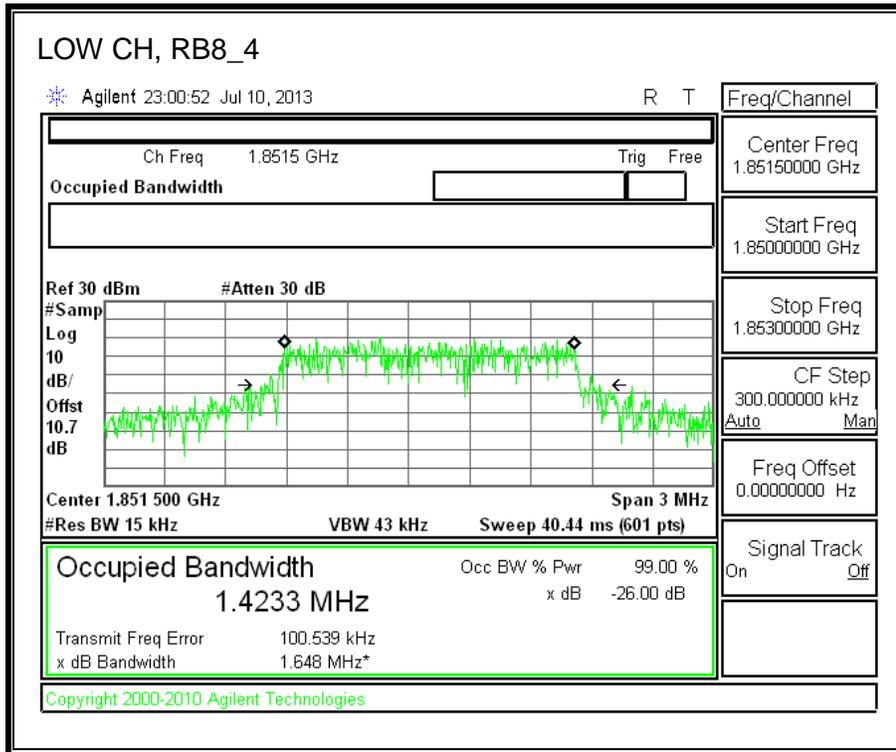
**HIGH-16QAM**

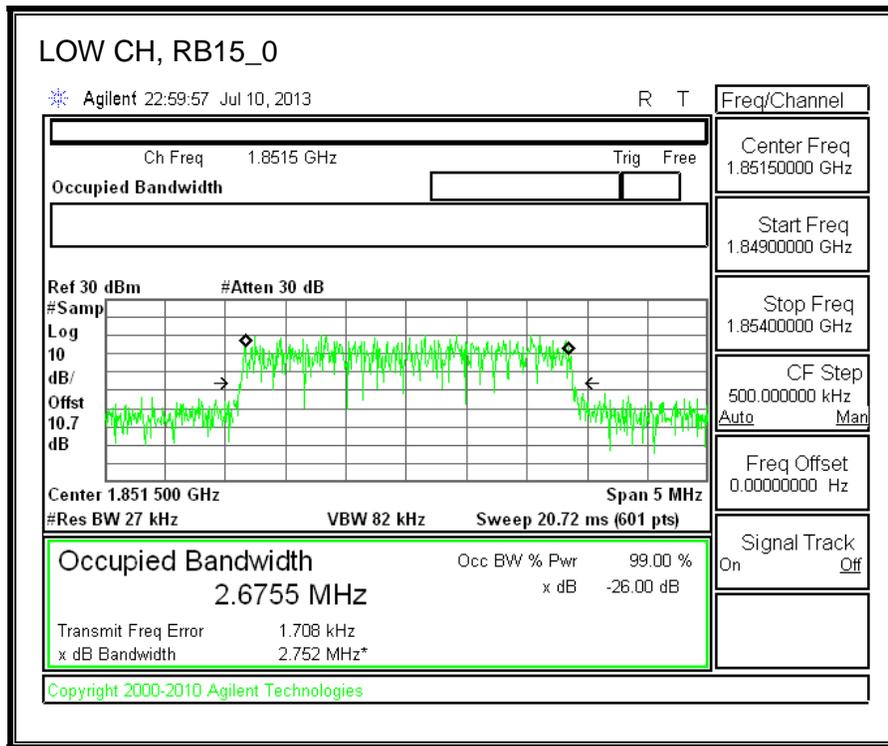




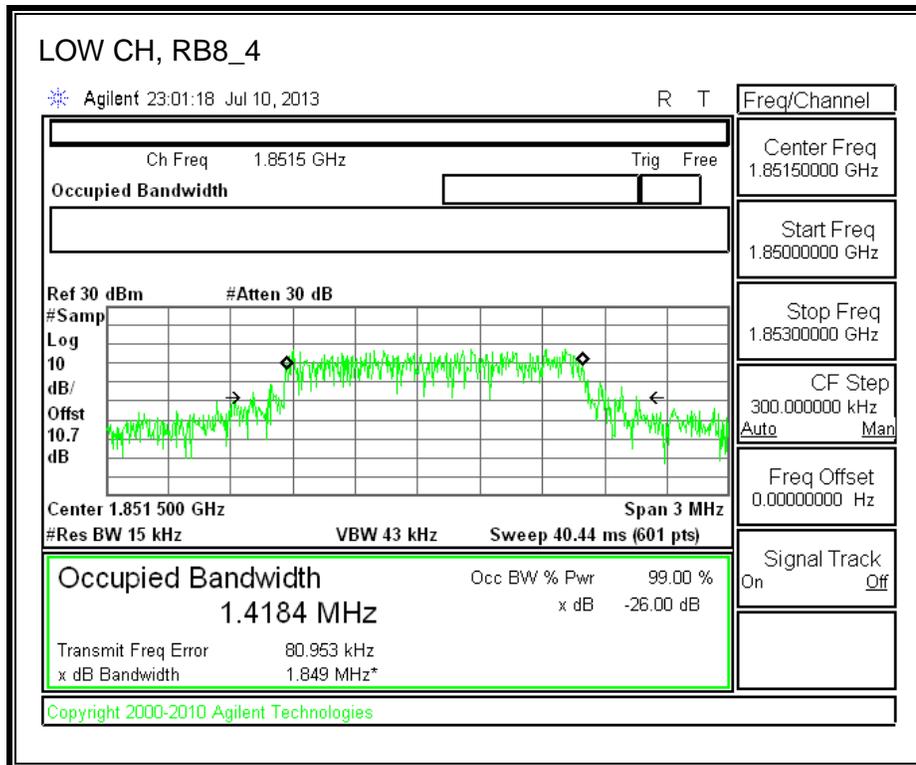
### 10.2.2. LTE BAND 25-3MHz BANDWIDTH

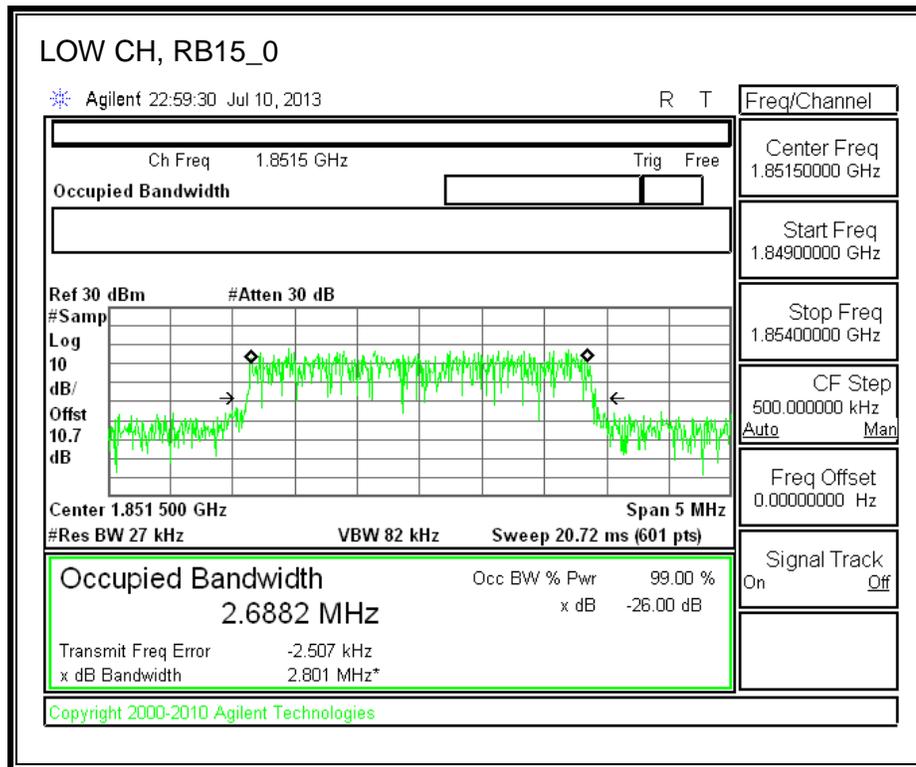
#### LOW-QPSK



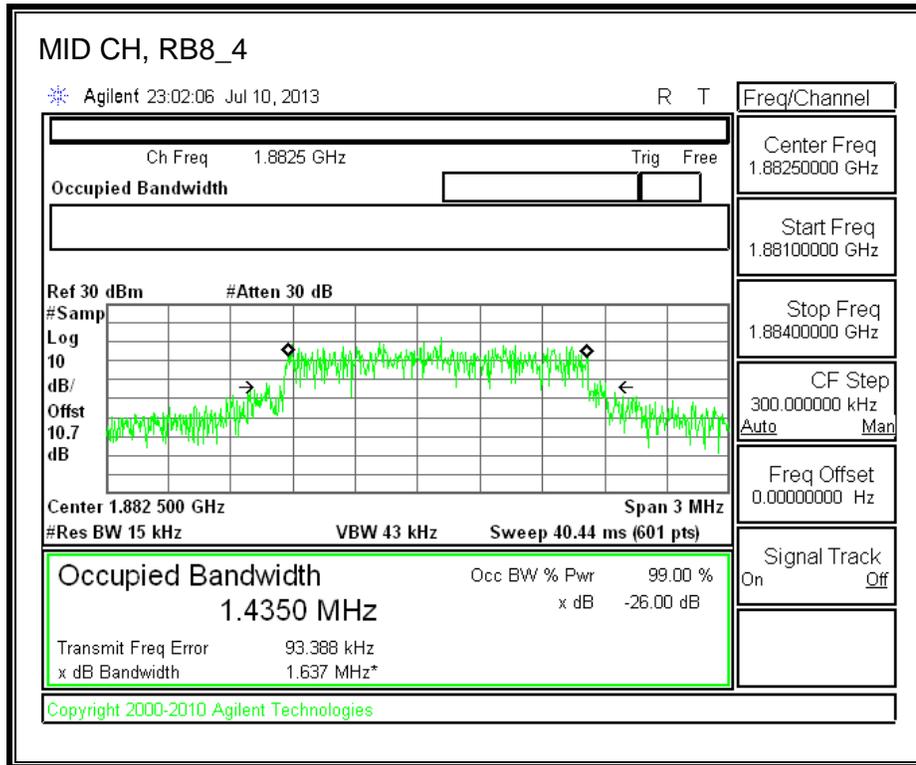


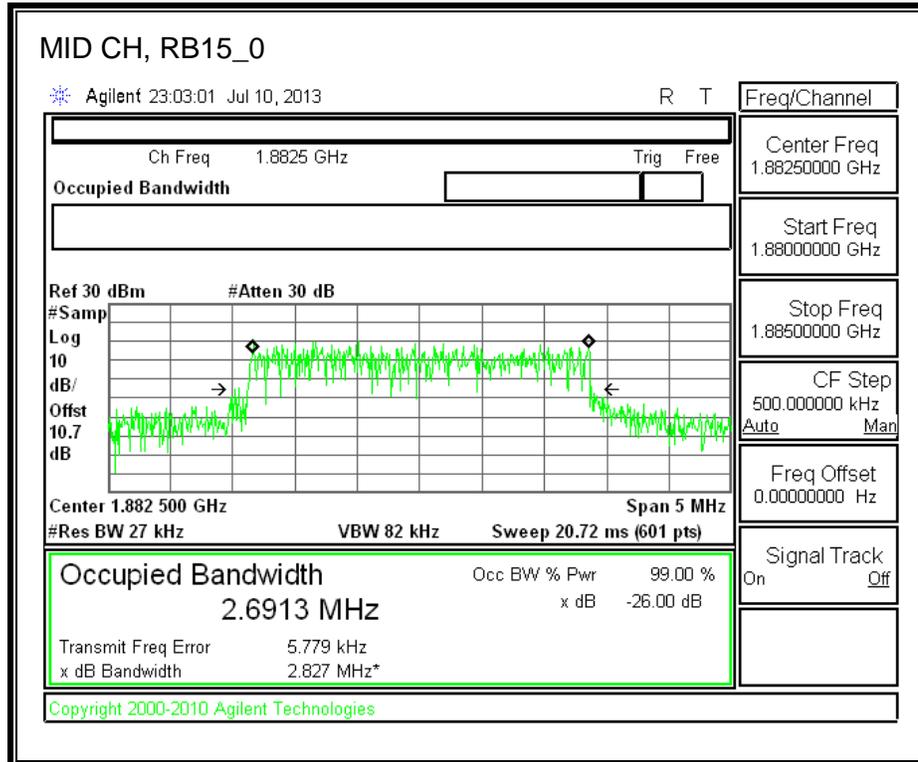
**LOW-16QAM**



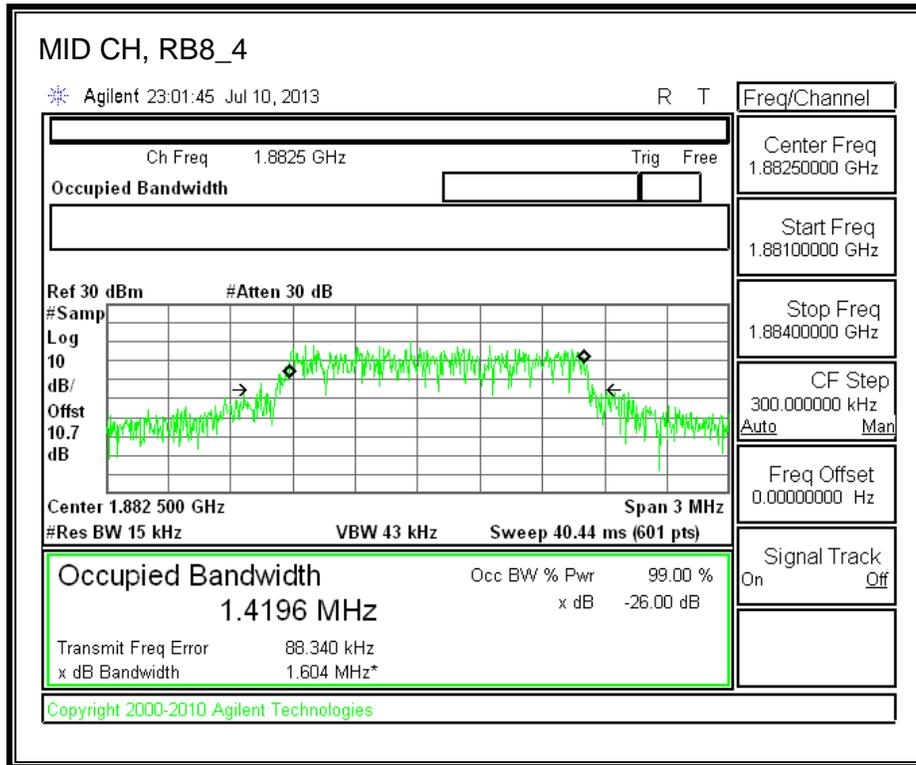


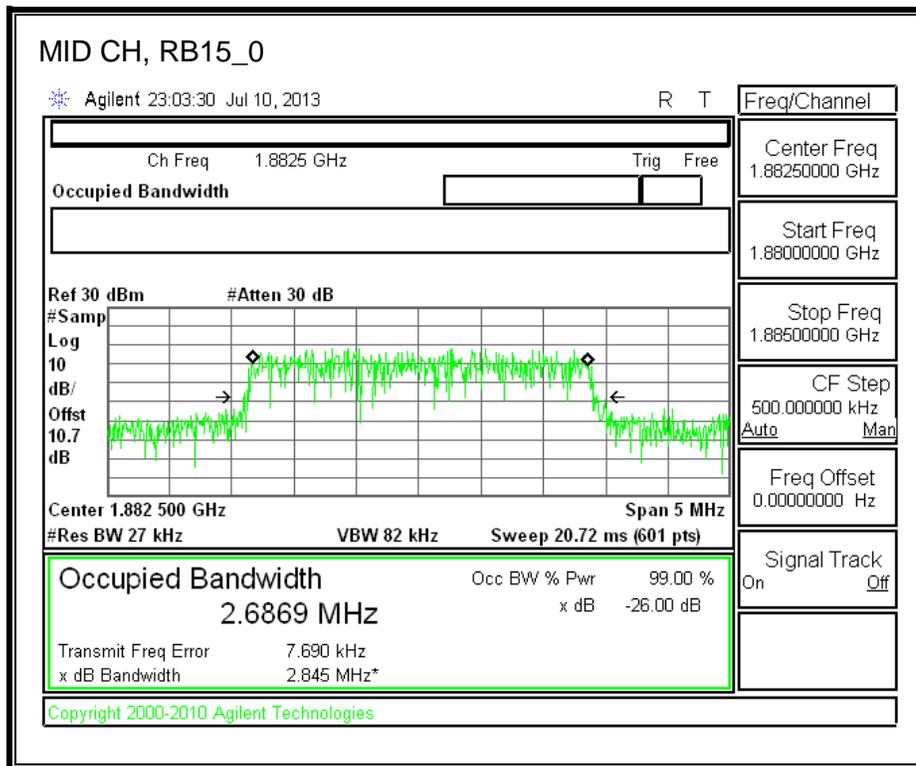
**MID-QPSK**



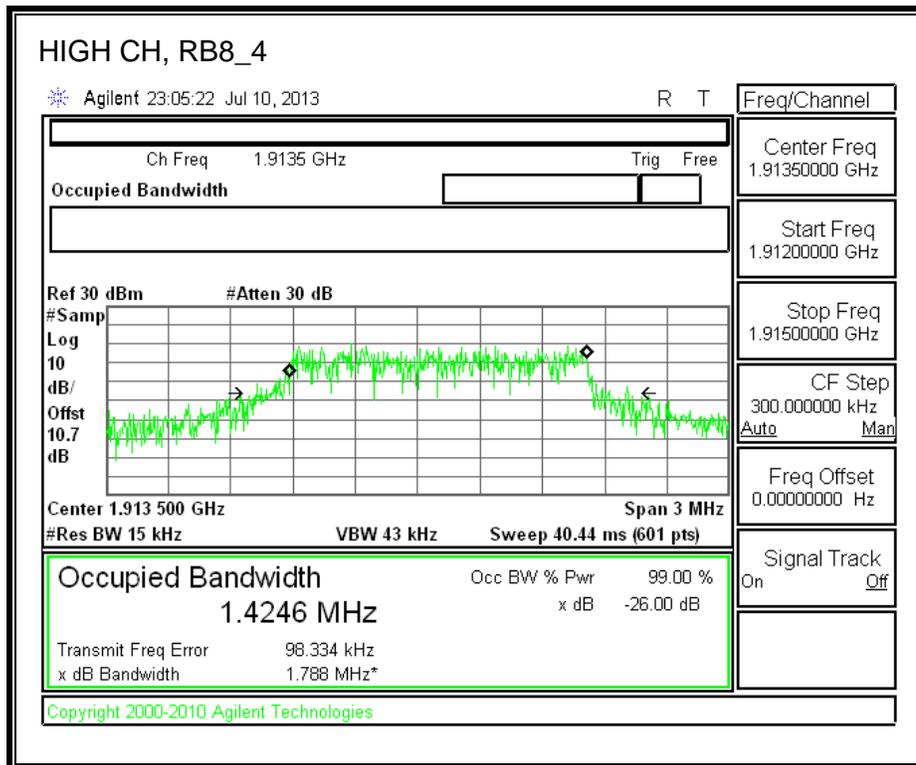


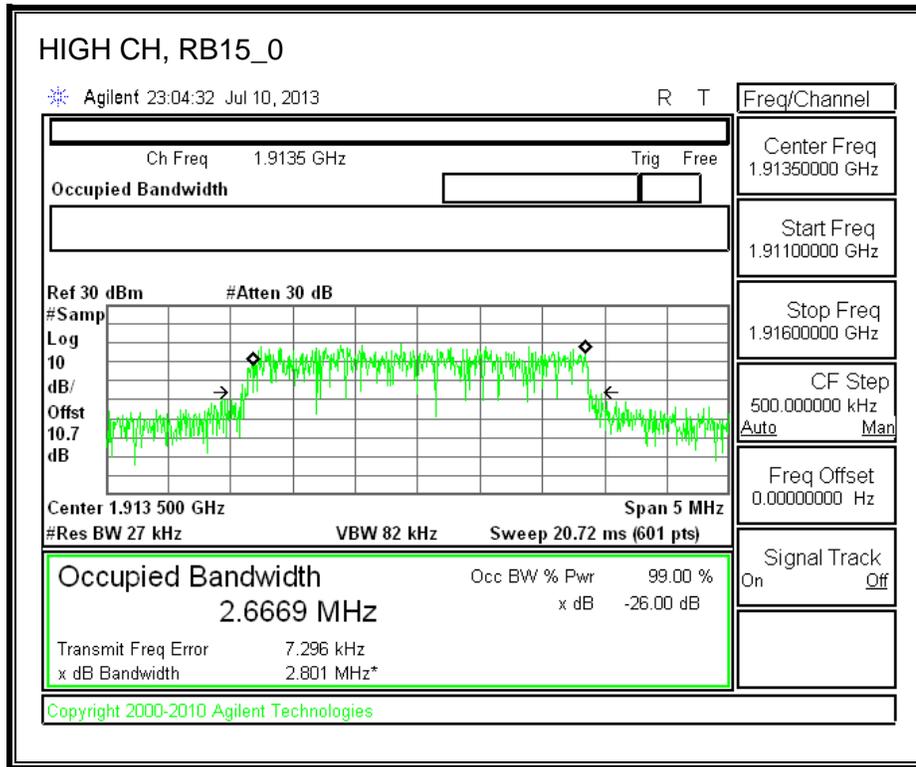
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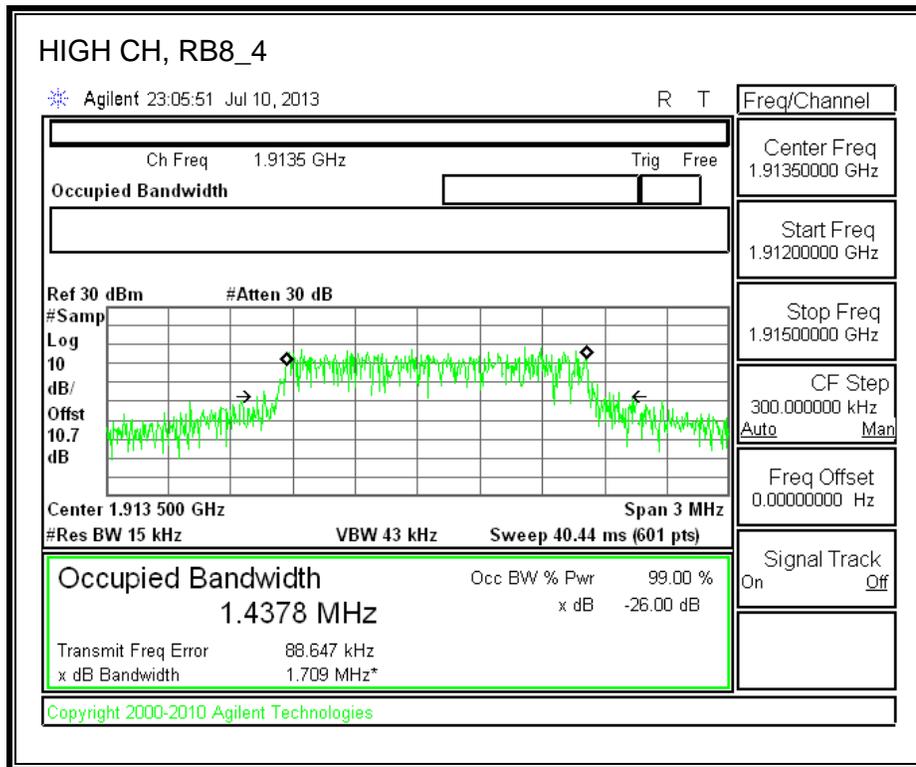


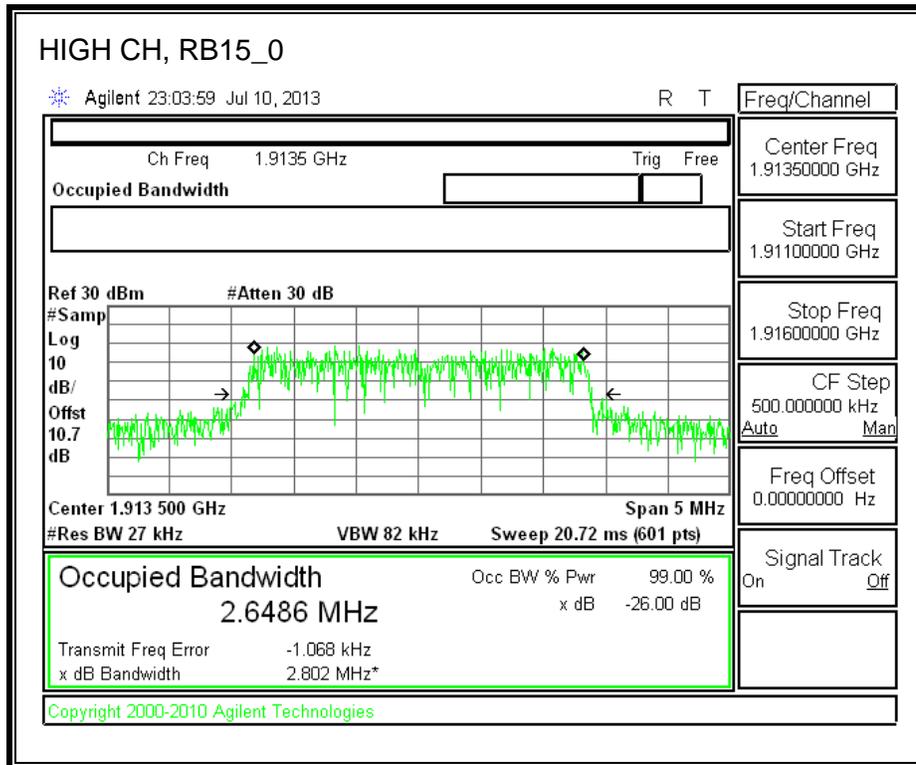
**HIGH-QPSK**





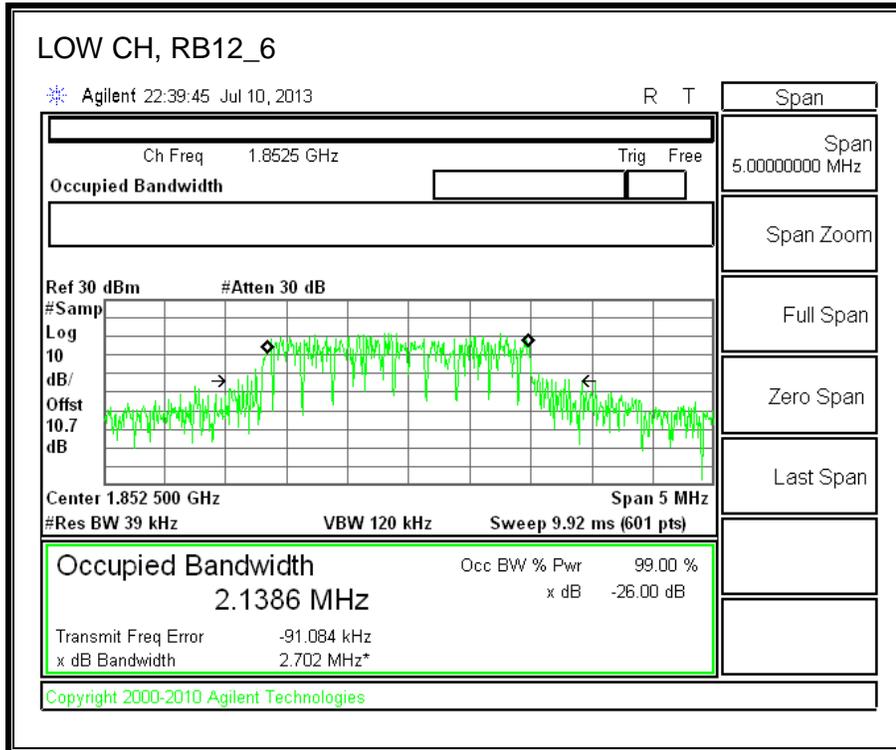
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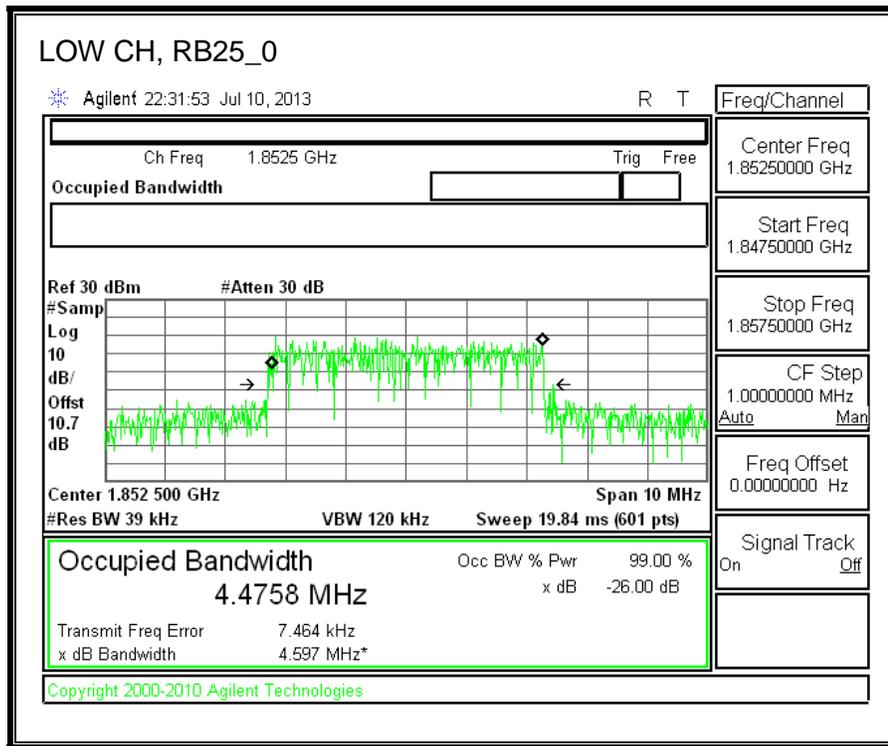




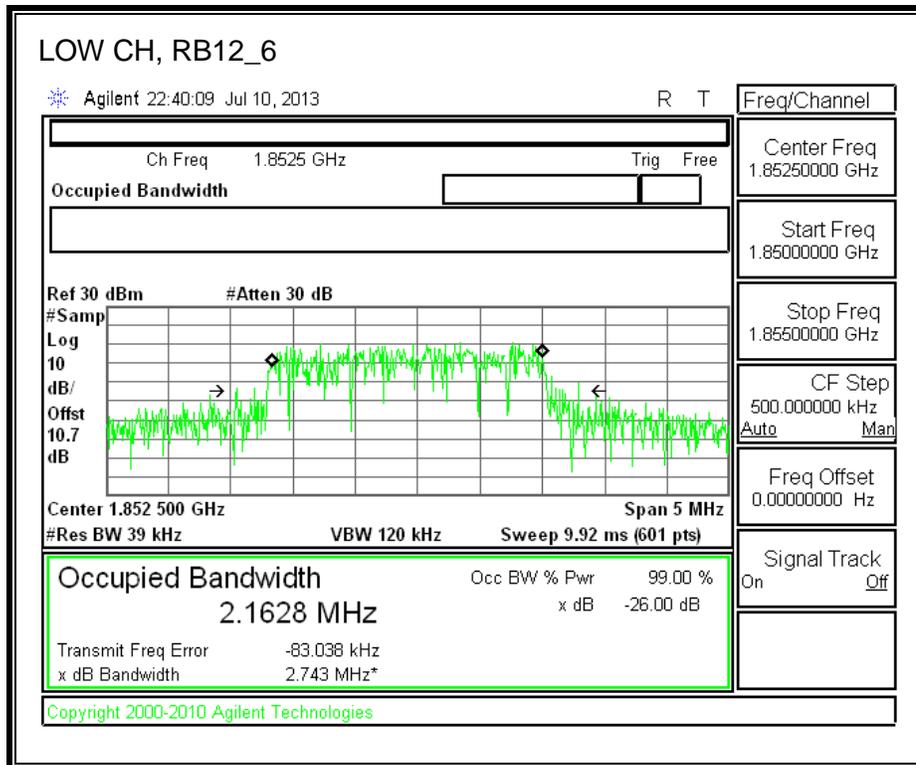
### 10.2.3. LTE BAND 25-5MHz BANDWIDTH

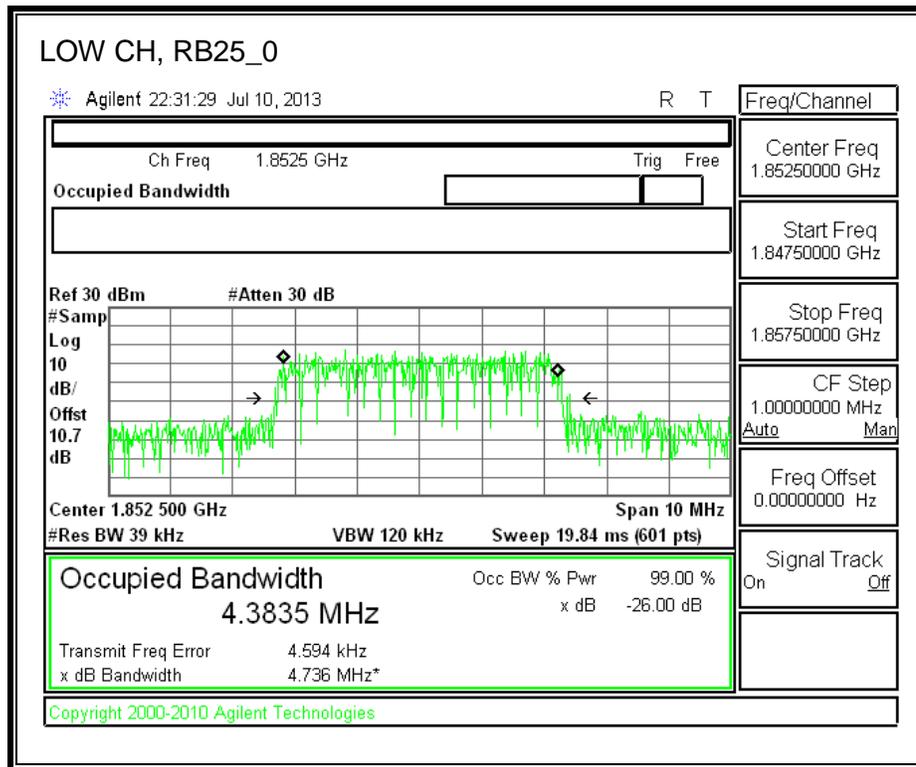
#### LOW-QPSK



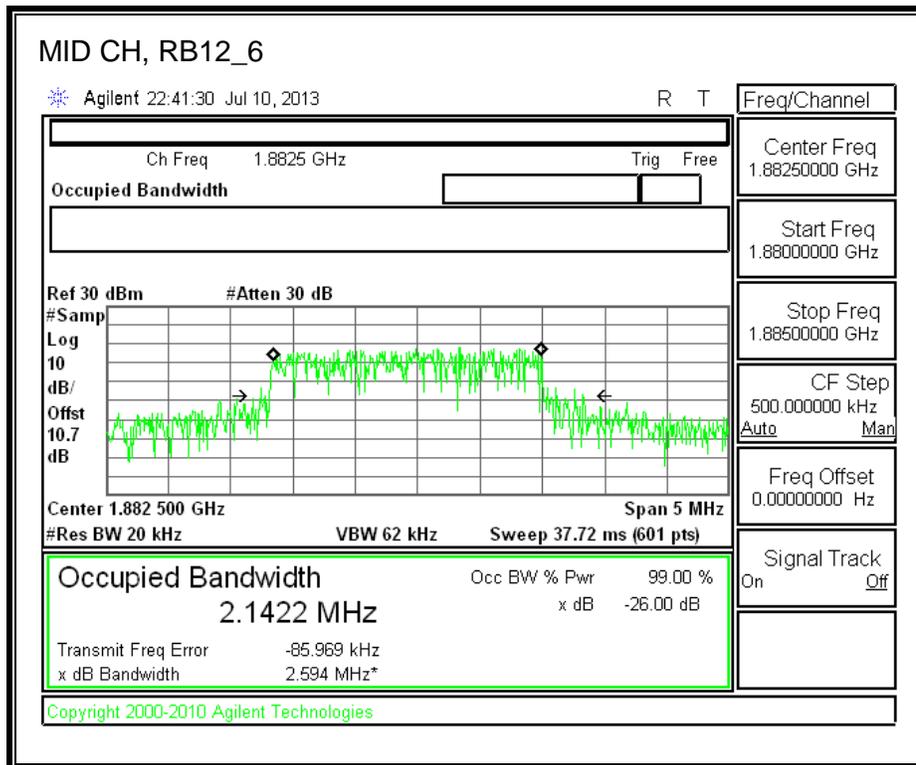


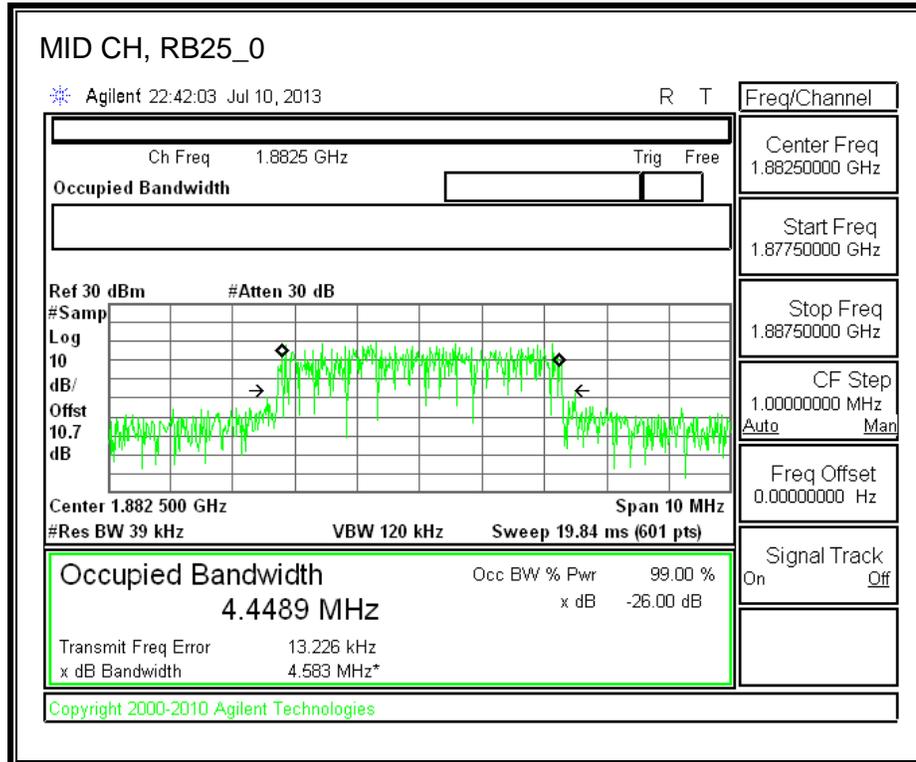
**LOW-16QAM**



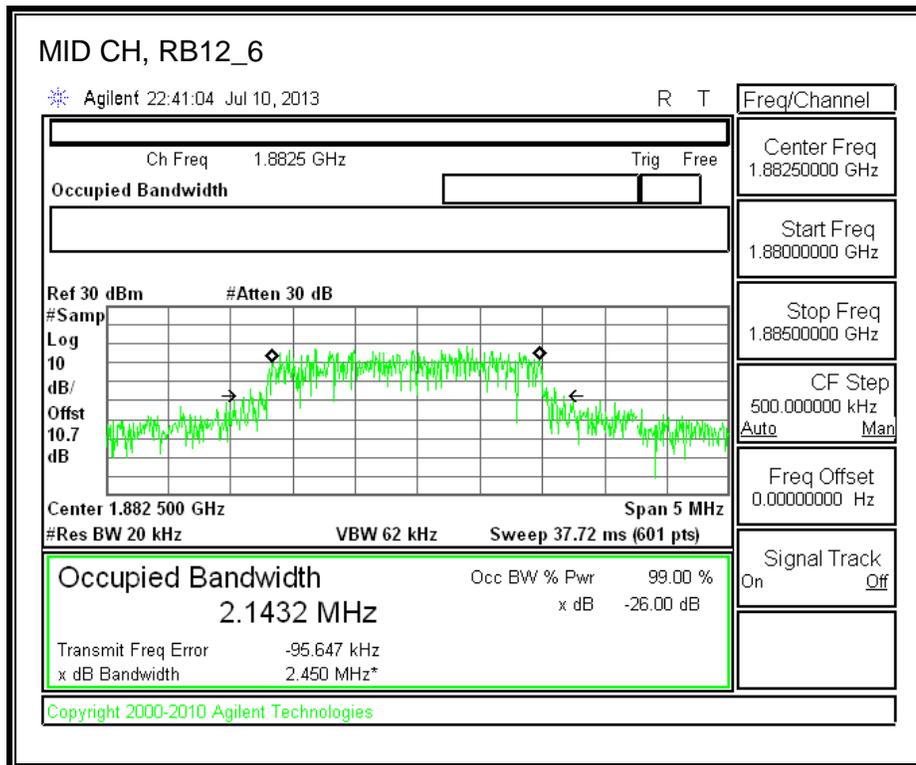


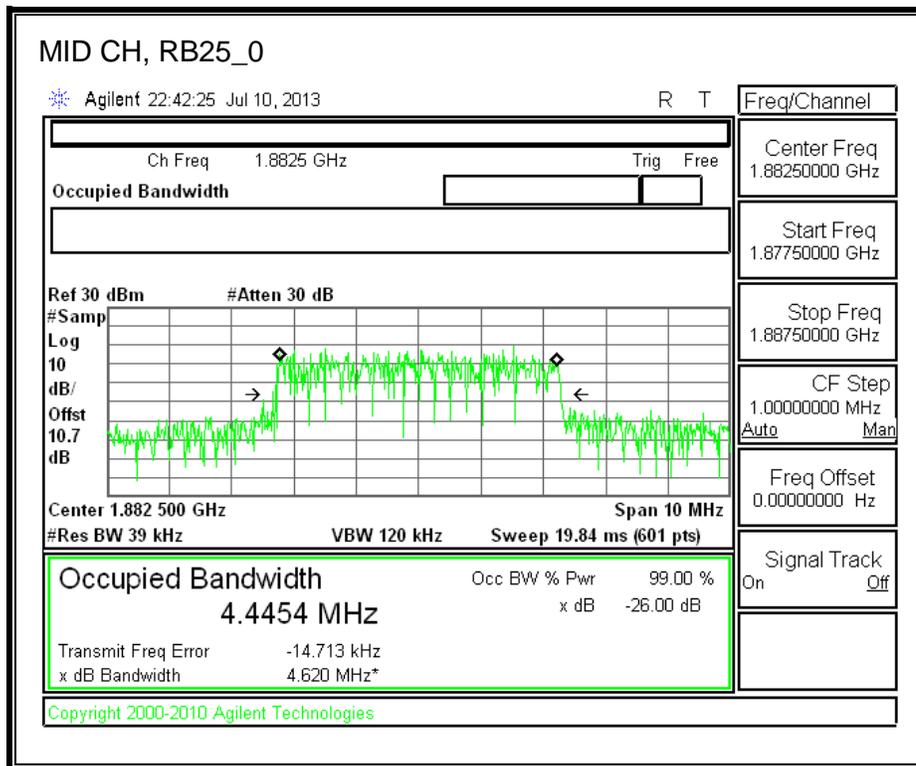
**MID-QPSK**



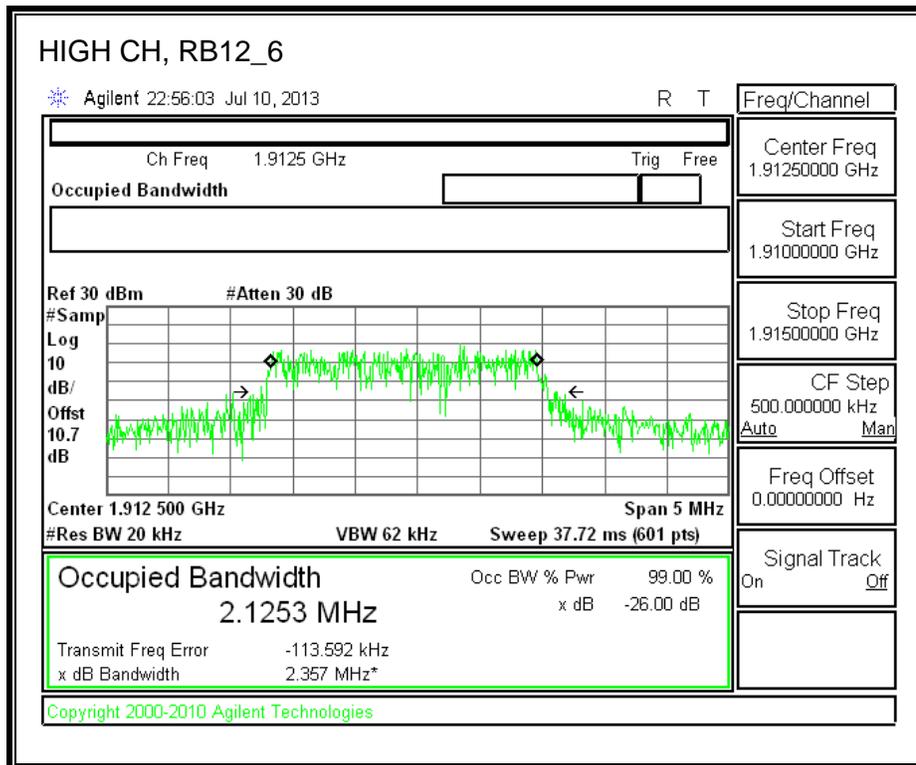


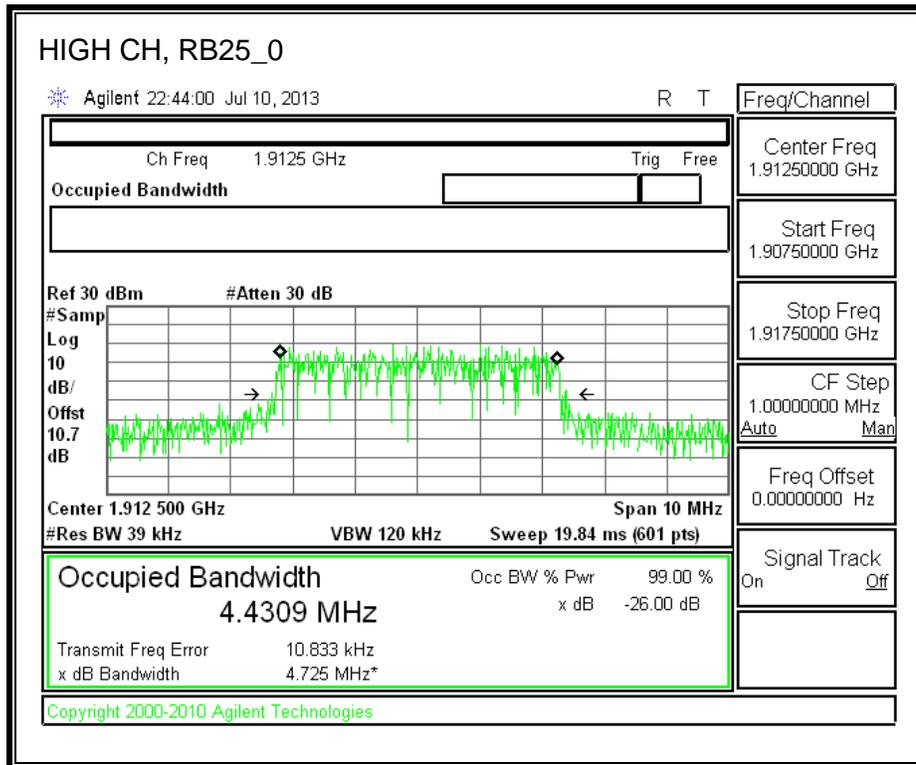
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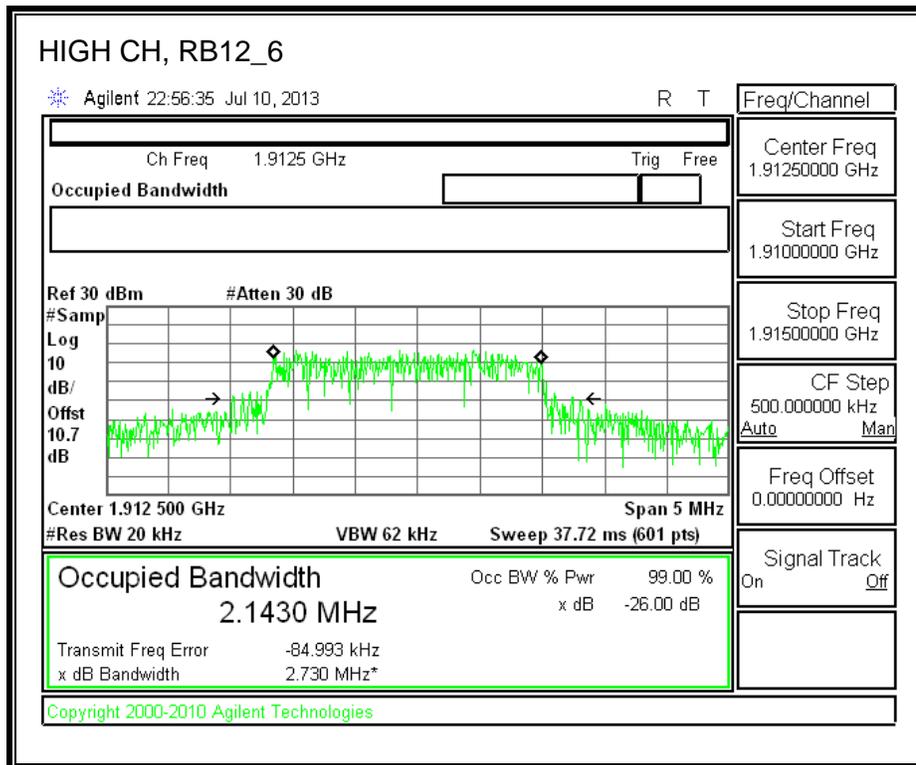


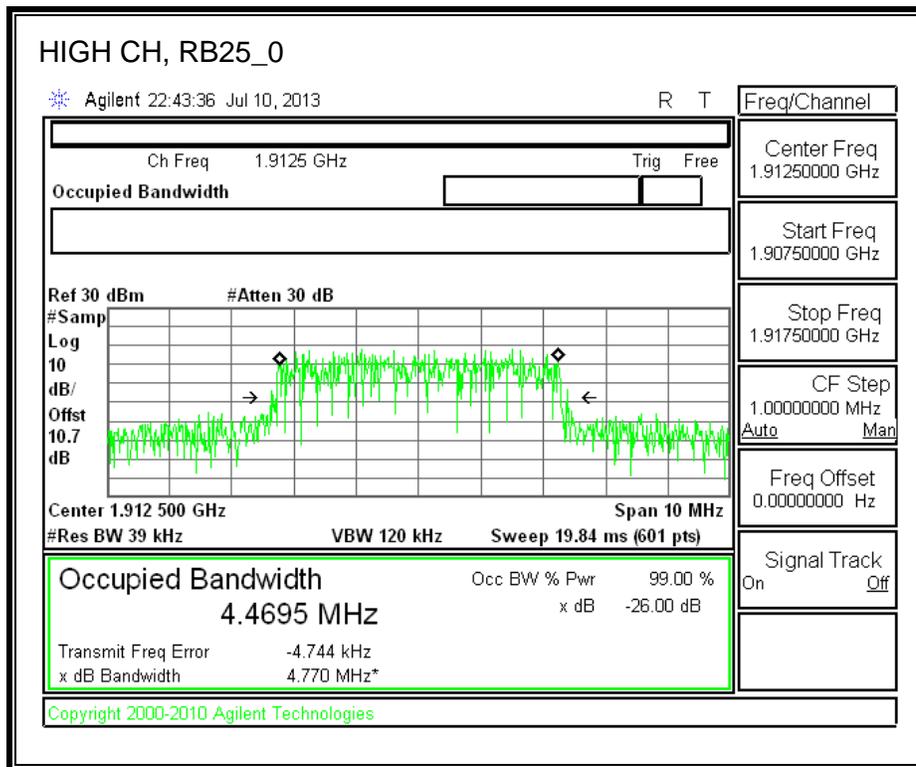
**HIGH-QPSK**





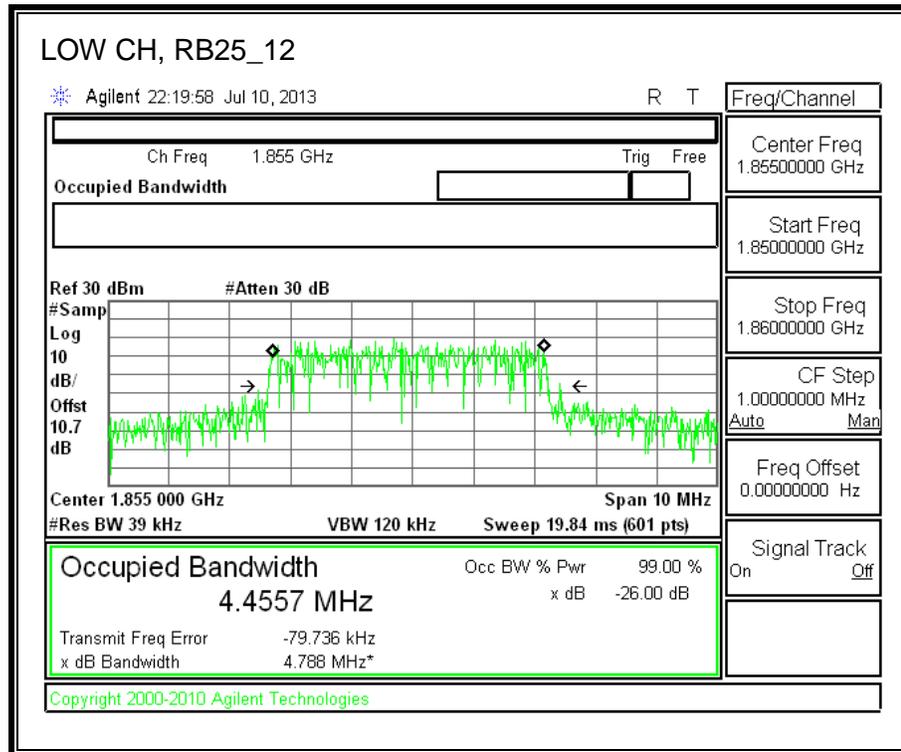
**HIGH-16QAM**

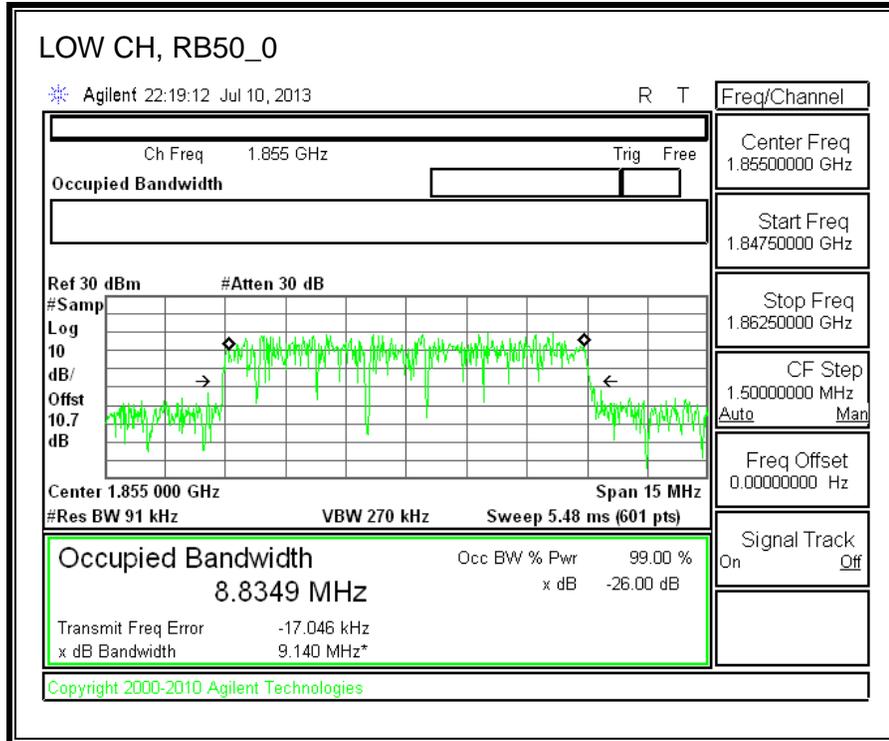




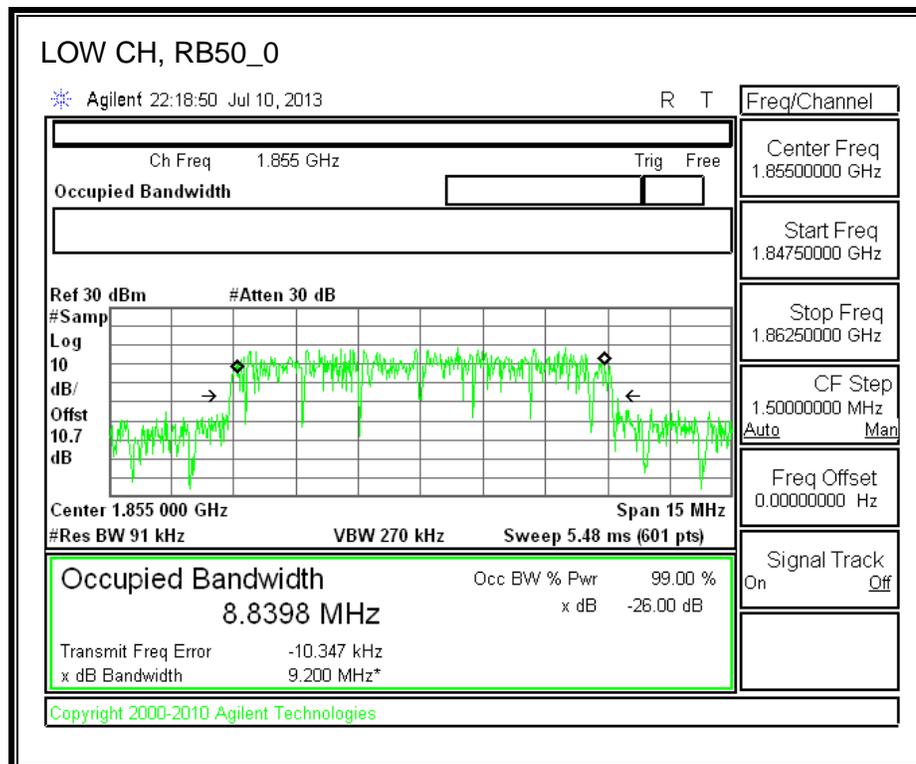
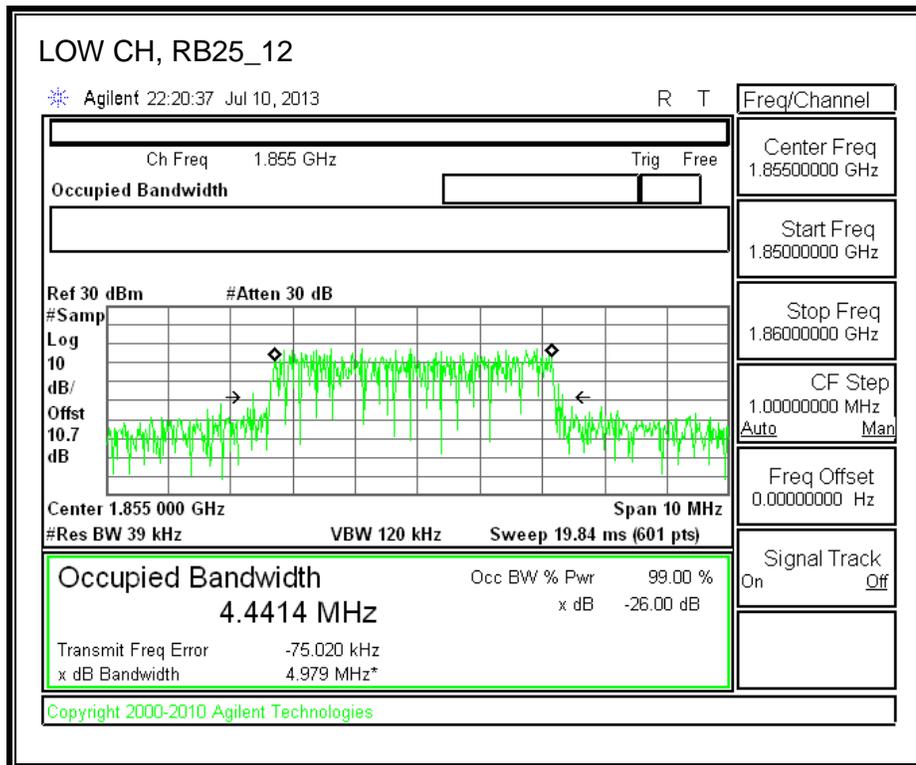
### 10.2.4. LTE BAND 25-10MHz BANDWIDTH

#### LOW-QPSK

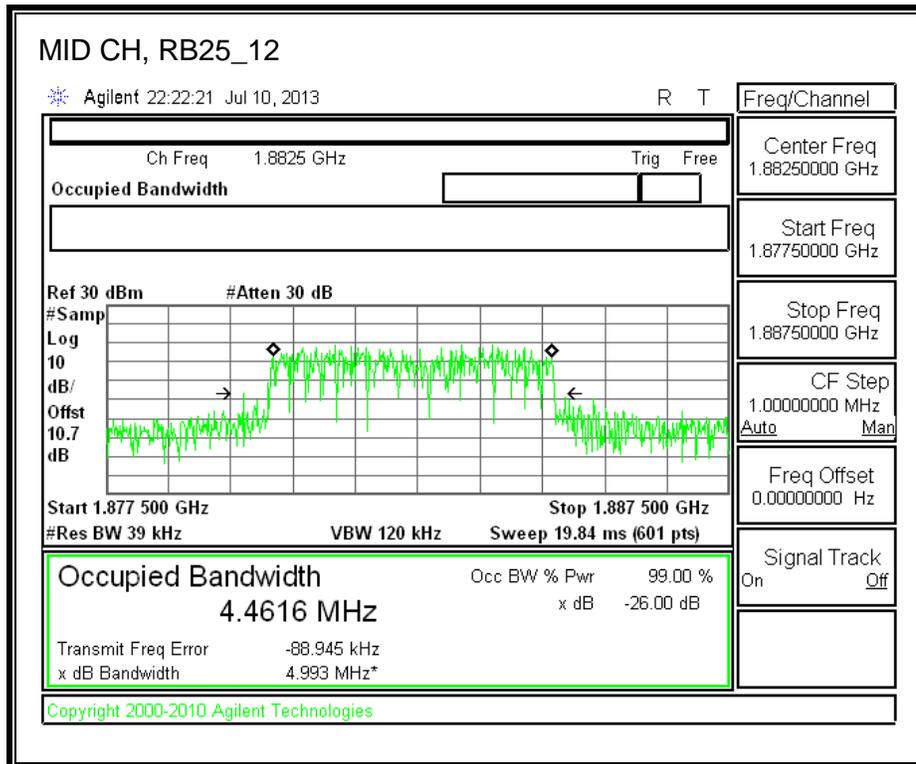


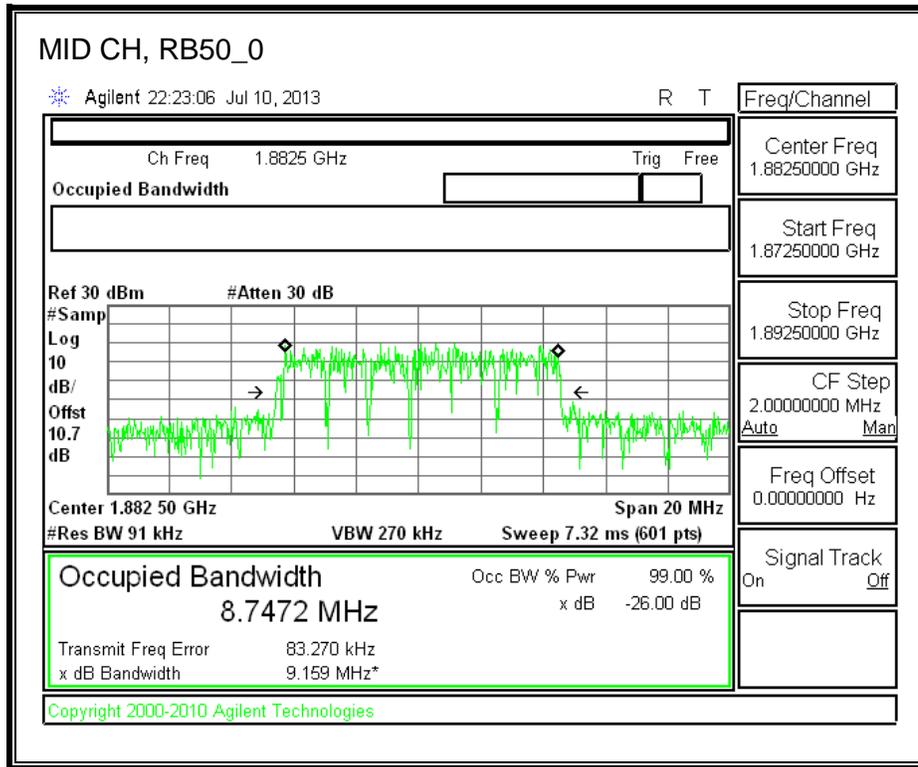


**LOW-16QAM**

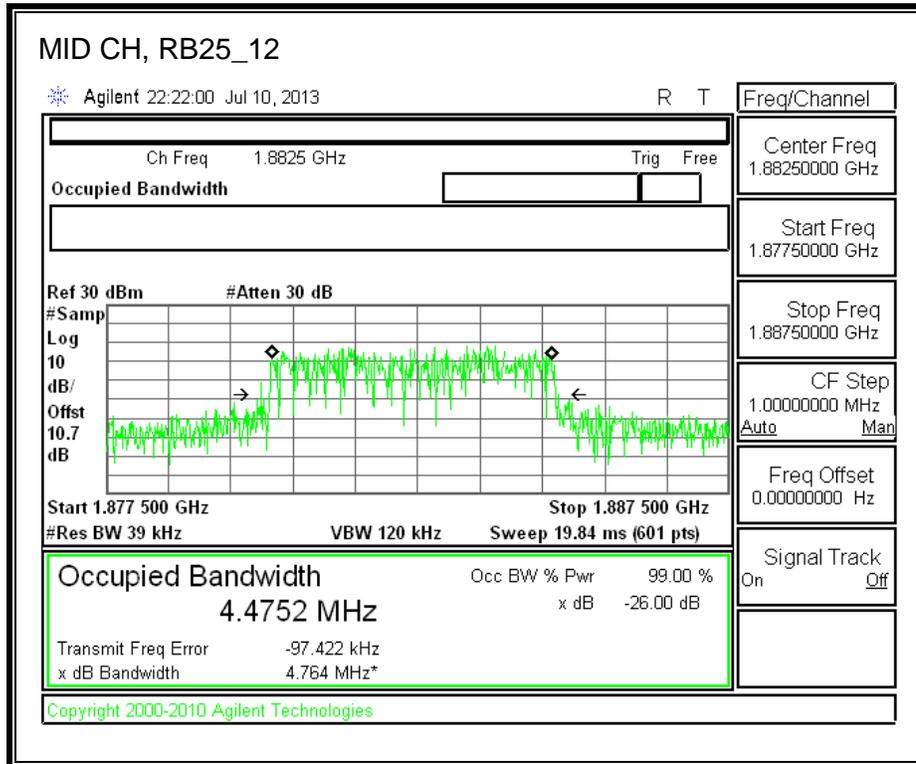


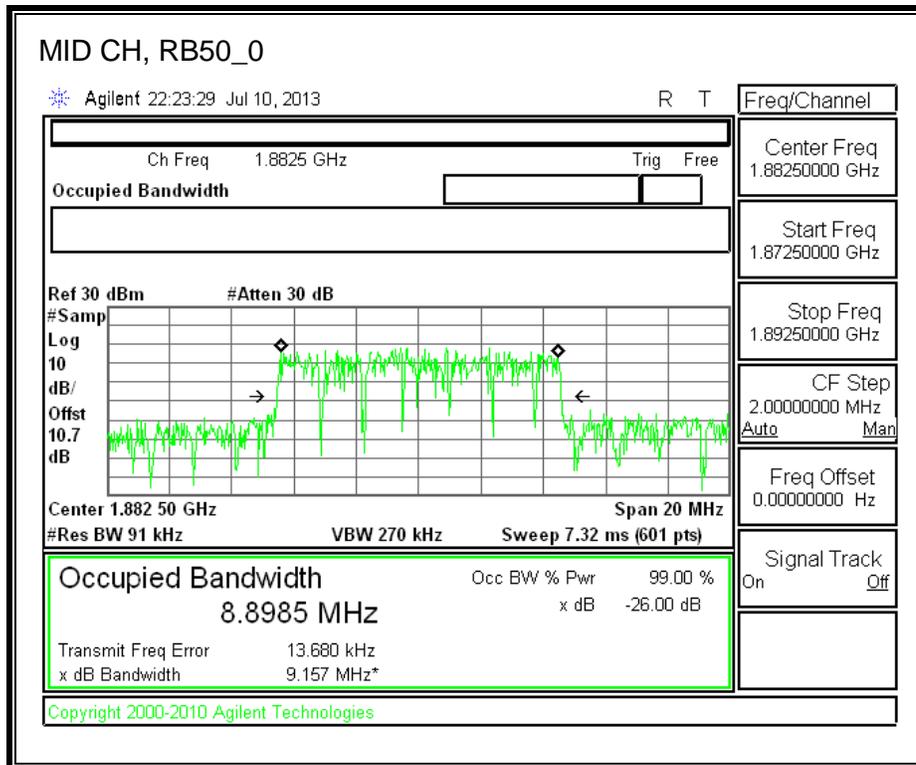
**MID-QPSK**



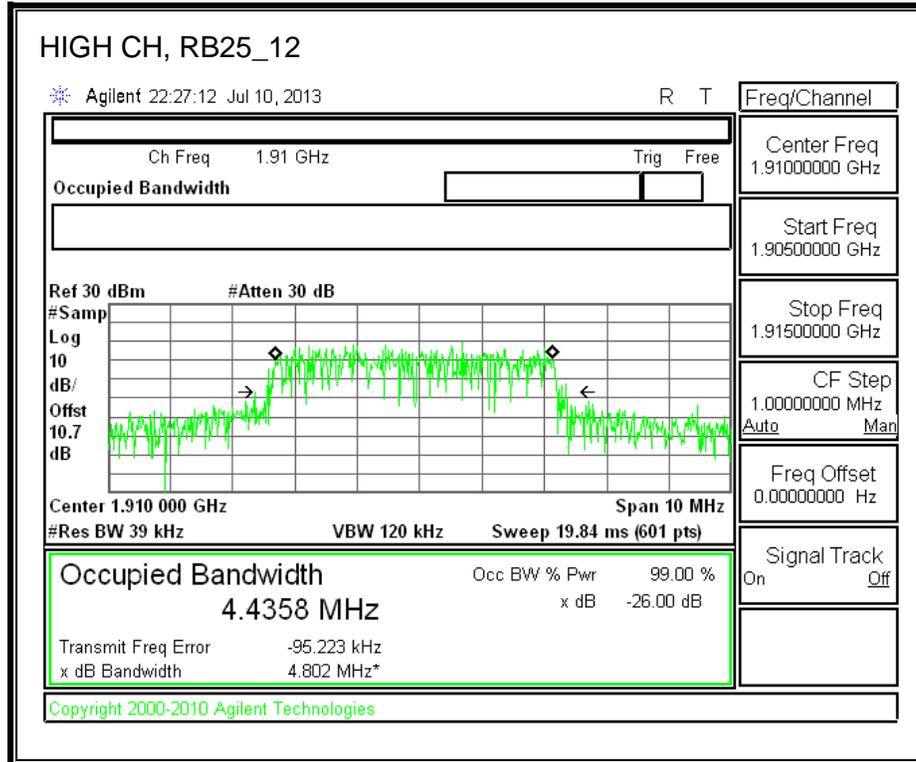


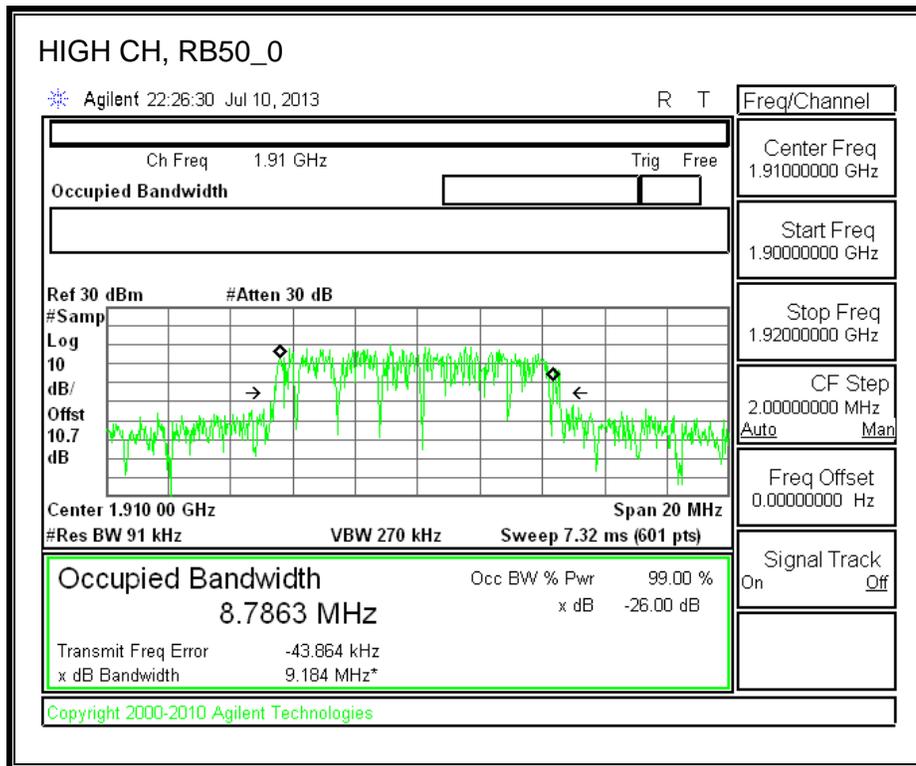
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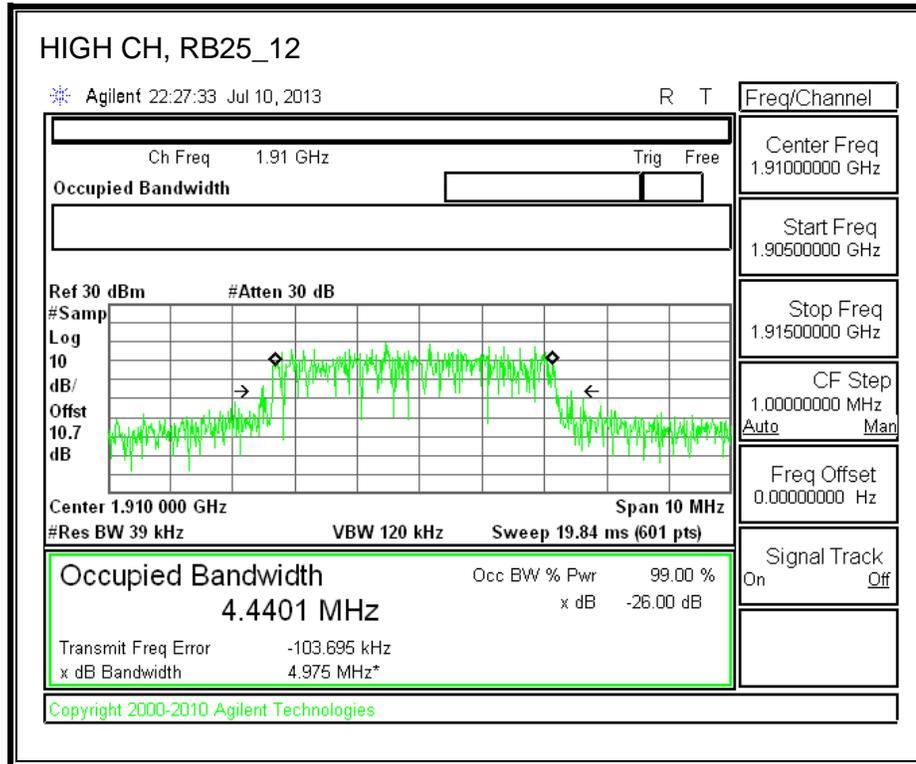


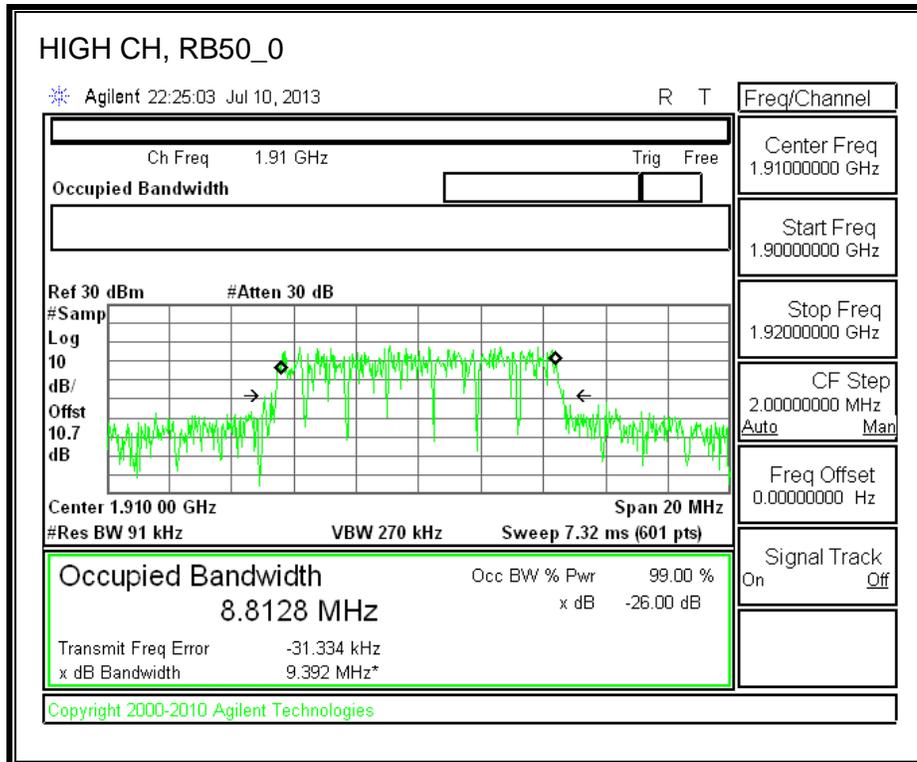
**HIGH-QPSK**





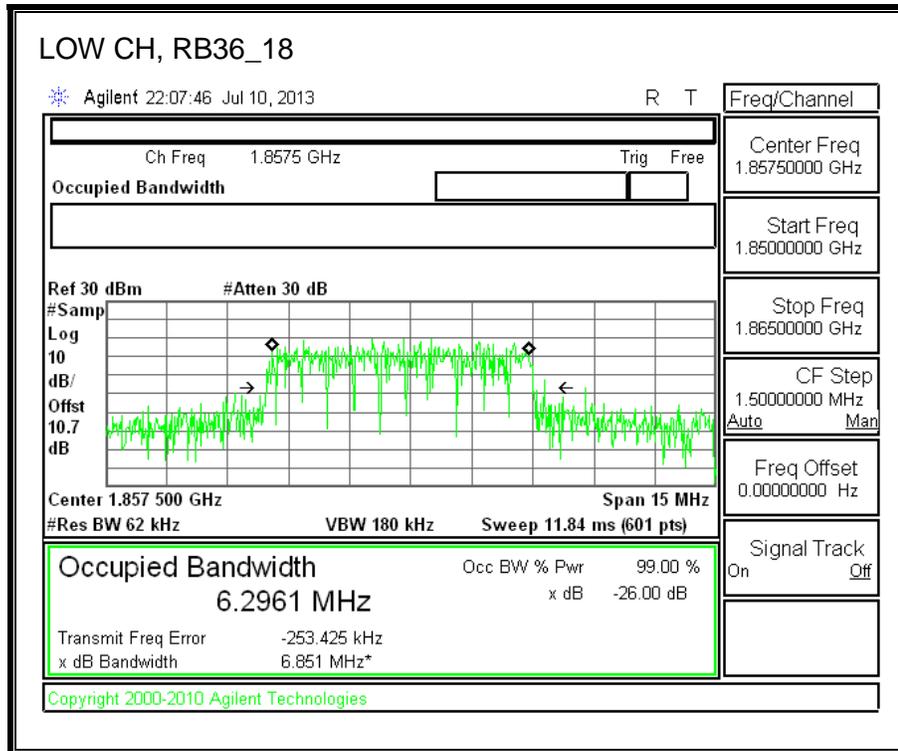
**HIGH-16QAM**

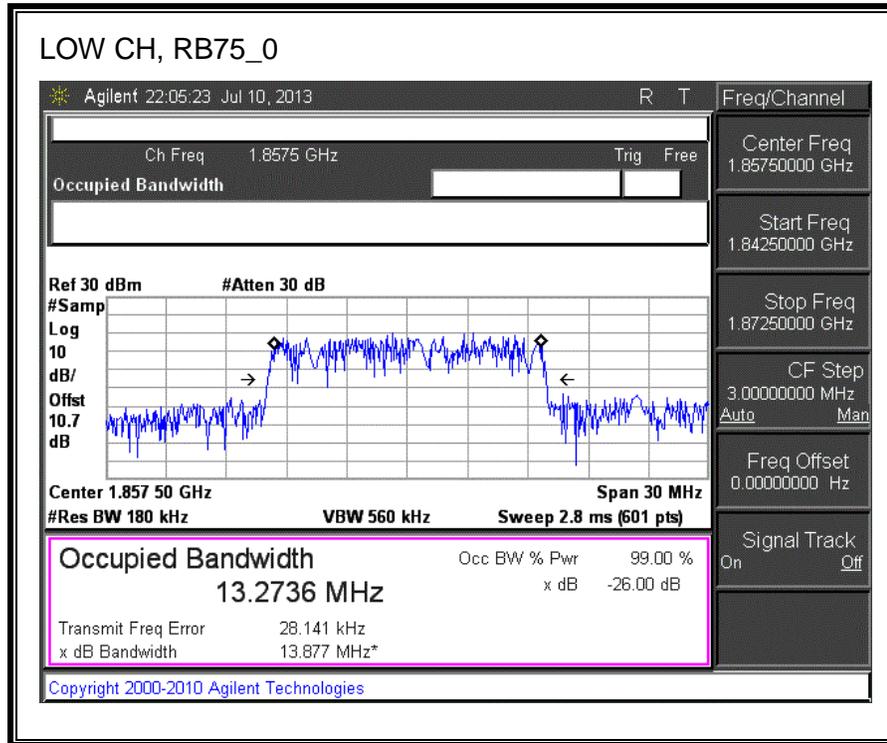




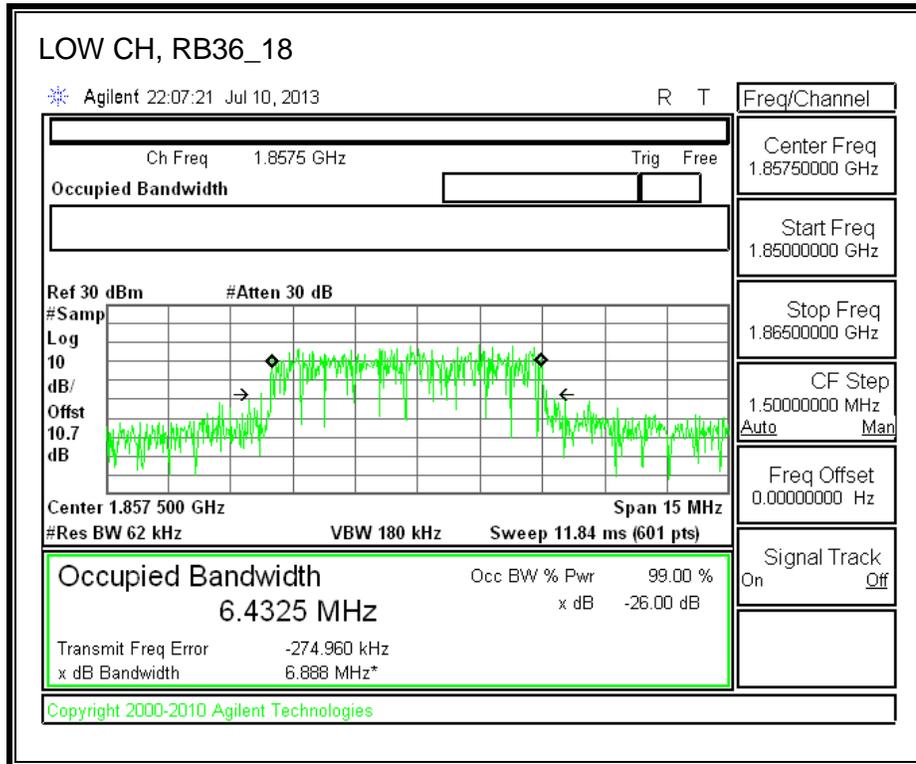
### 10.2.5. LTE BAND 25-15MHz BANDWIDTH

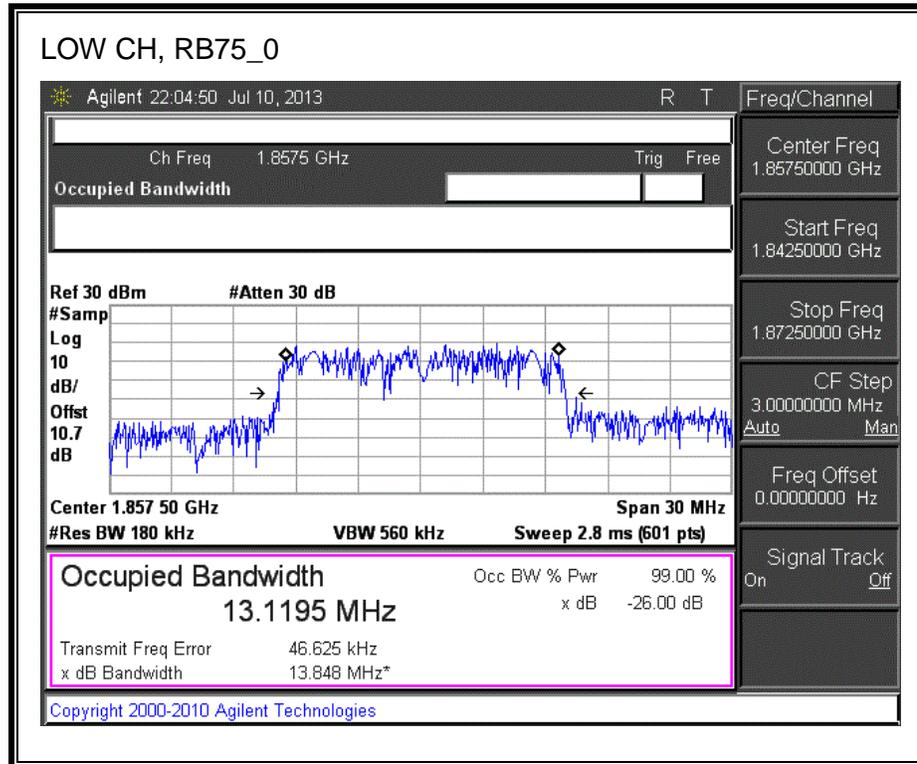
#### LOW-QPSK



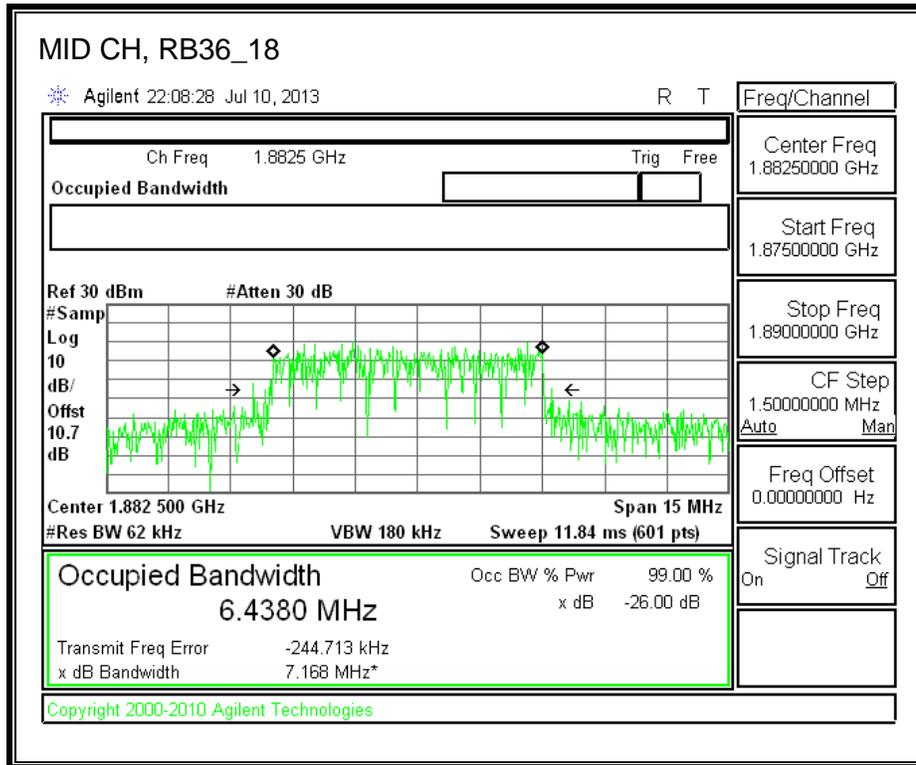


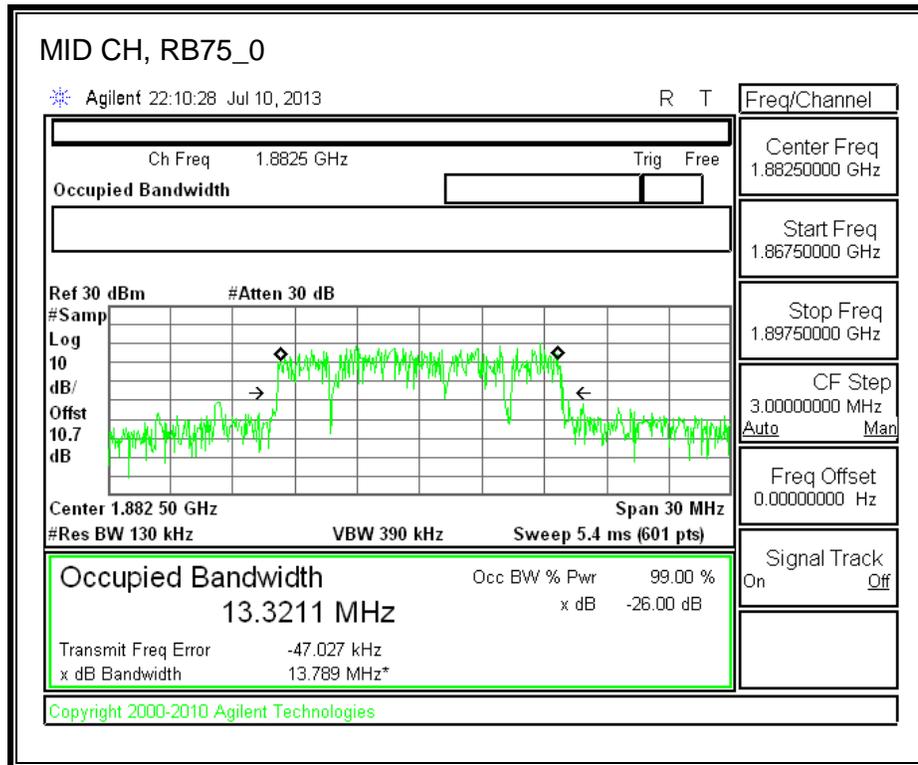
**LOW-16QAM**



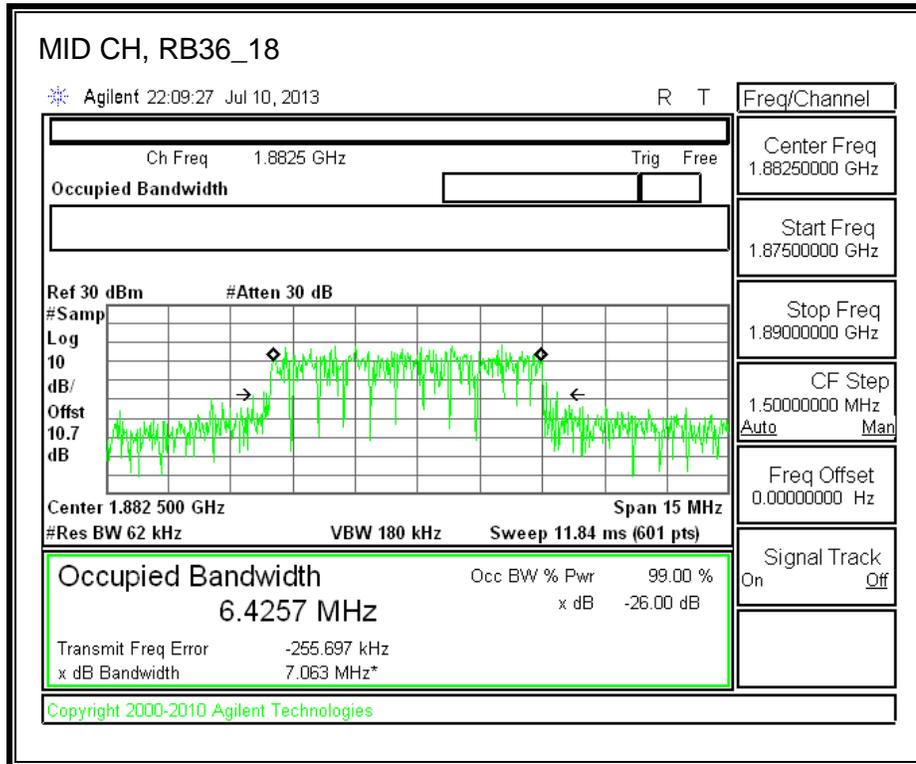


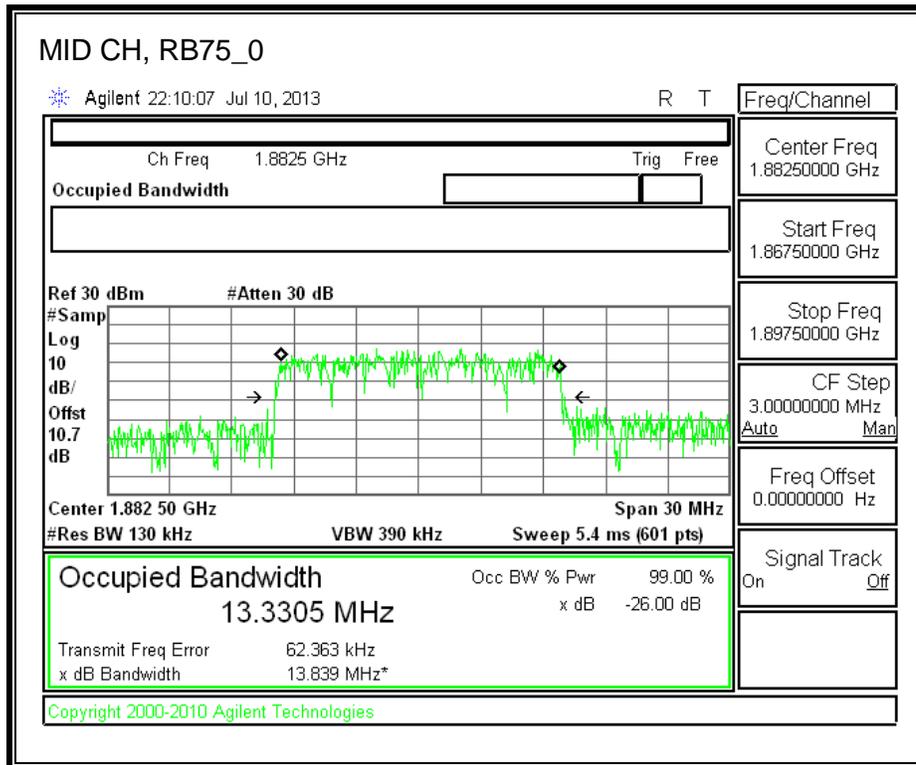
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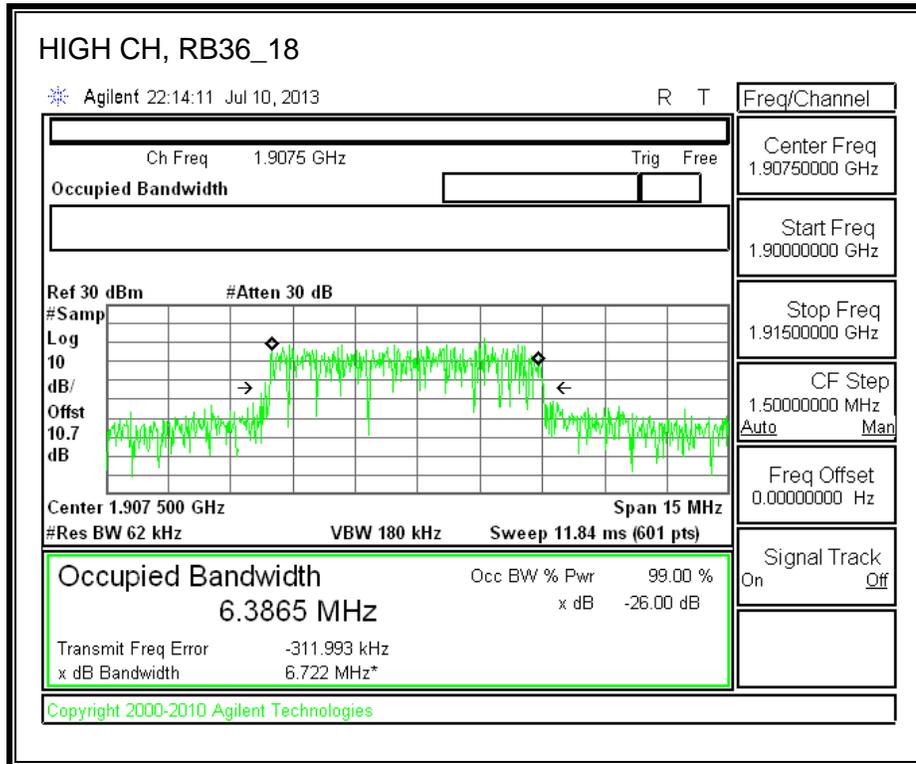


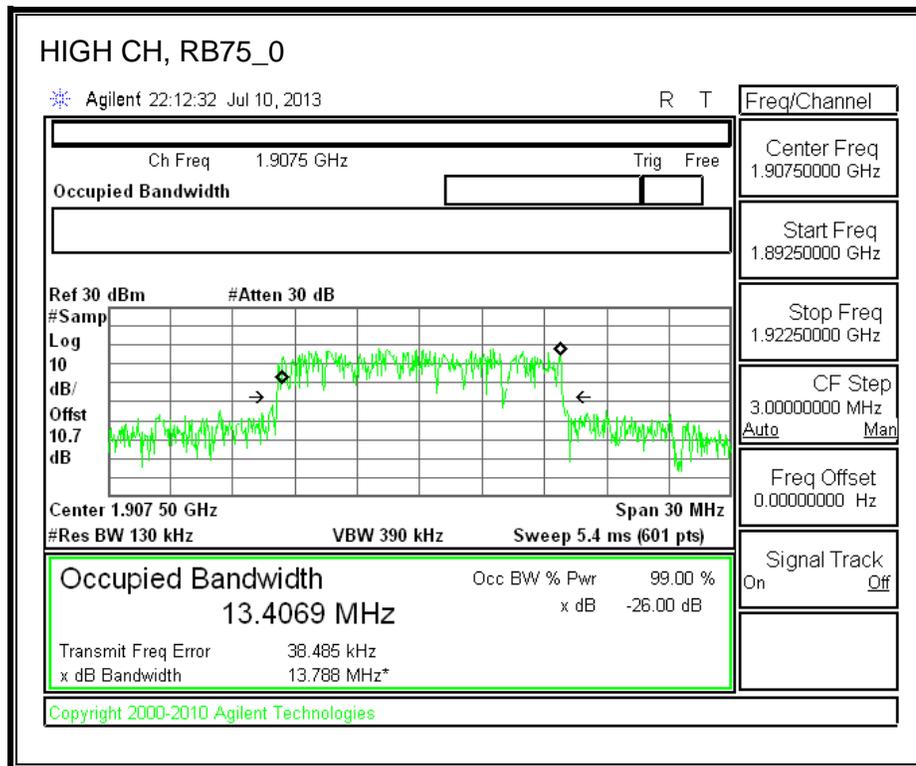
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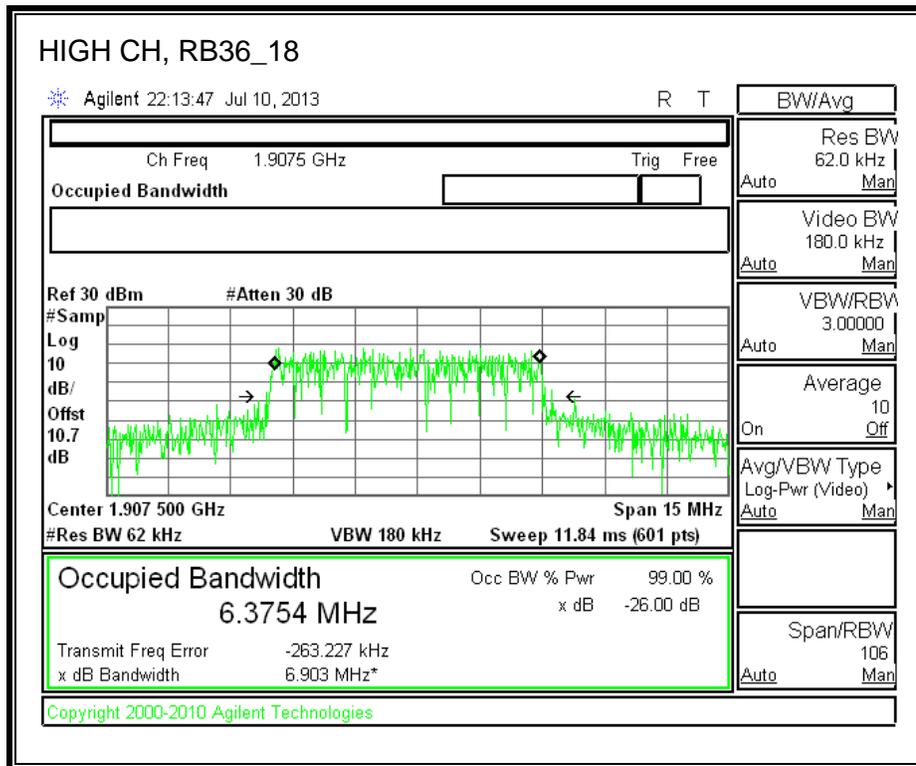


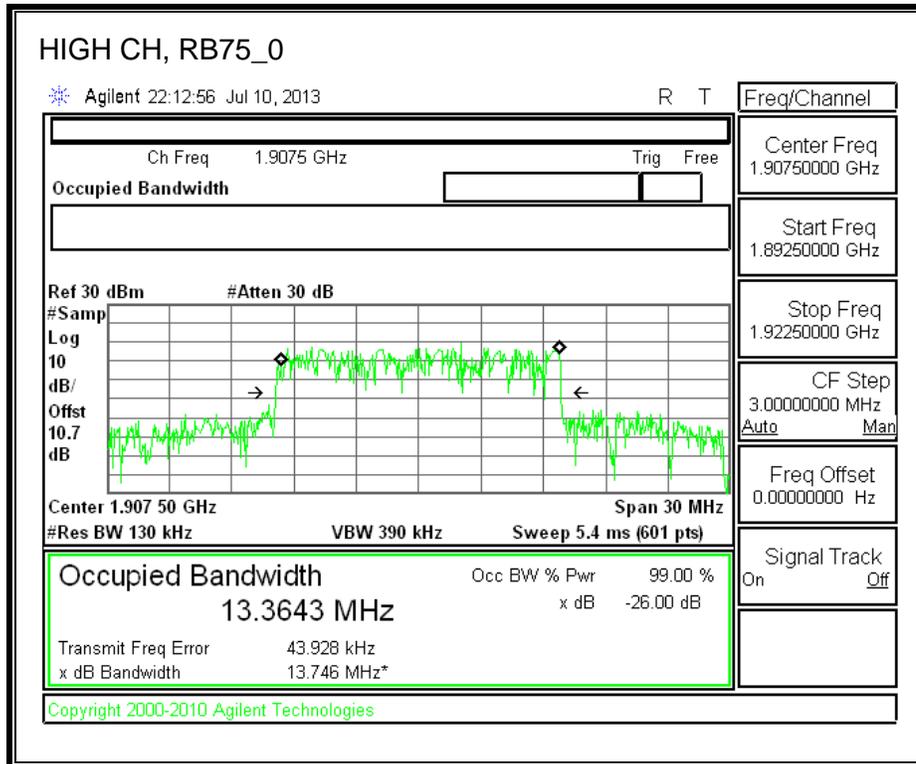
**HIGH-QPSK**





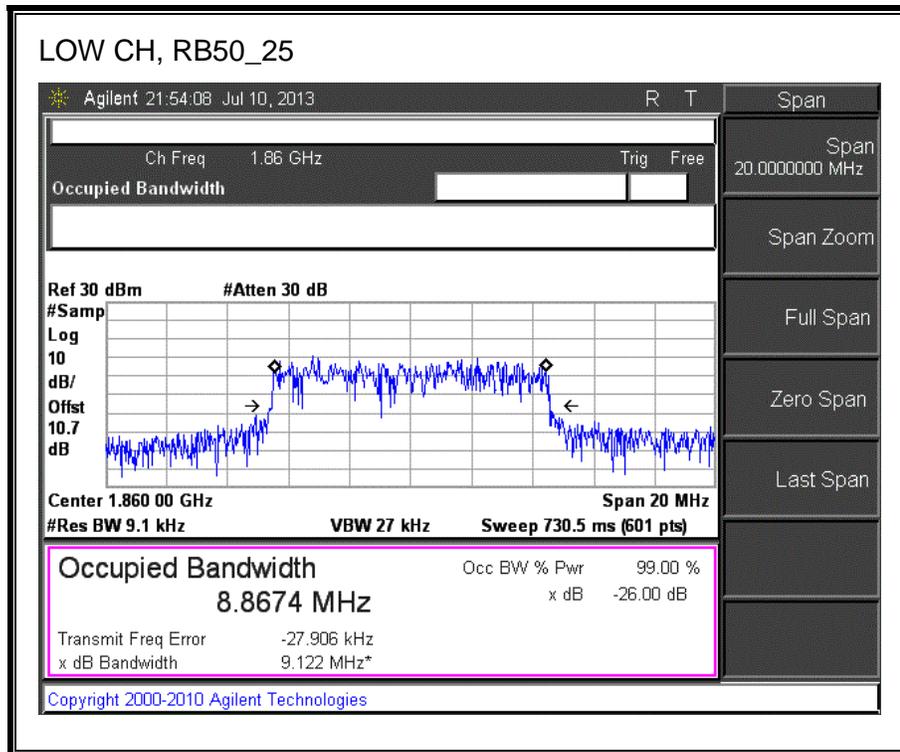
**HIGH-16QAM**





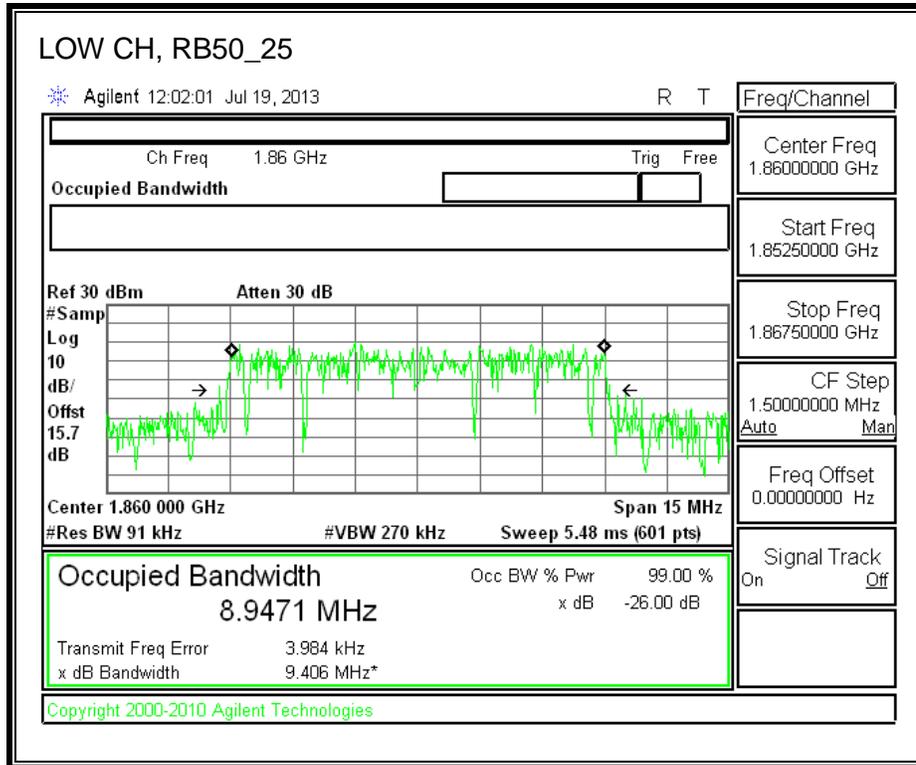
### 10.2.6. LTE BAND 25-20MHz BANDWIDTH

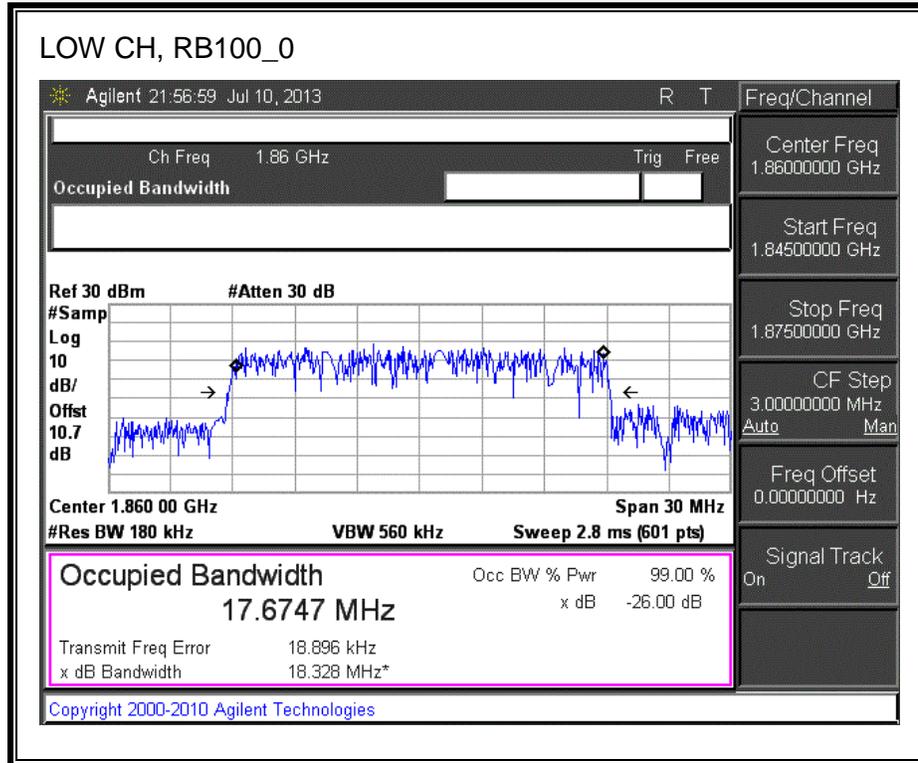
#### LOW-QPSK



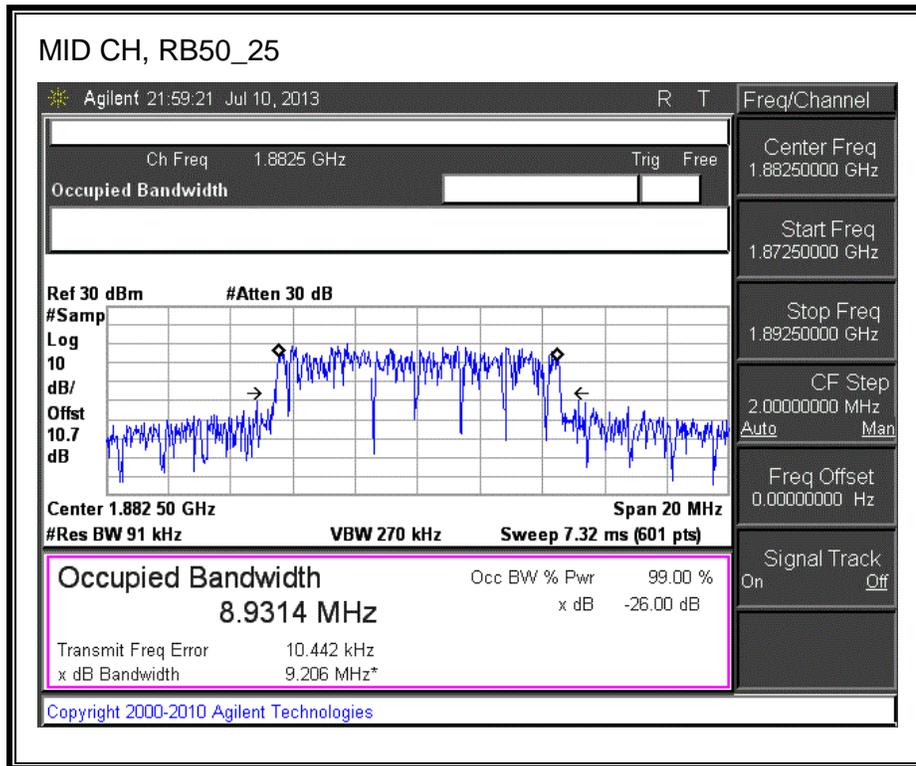


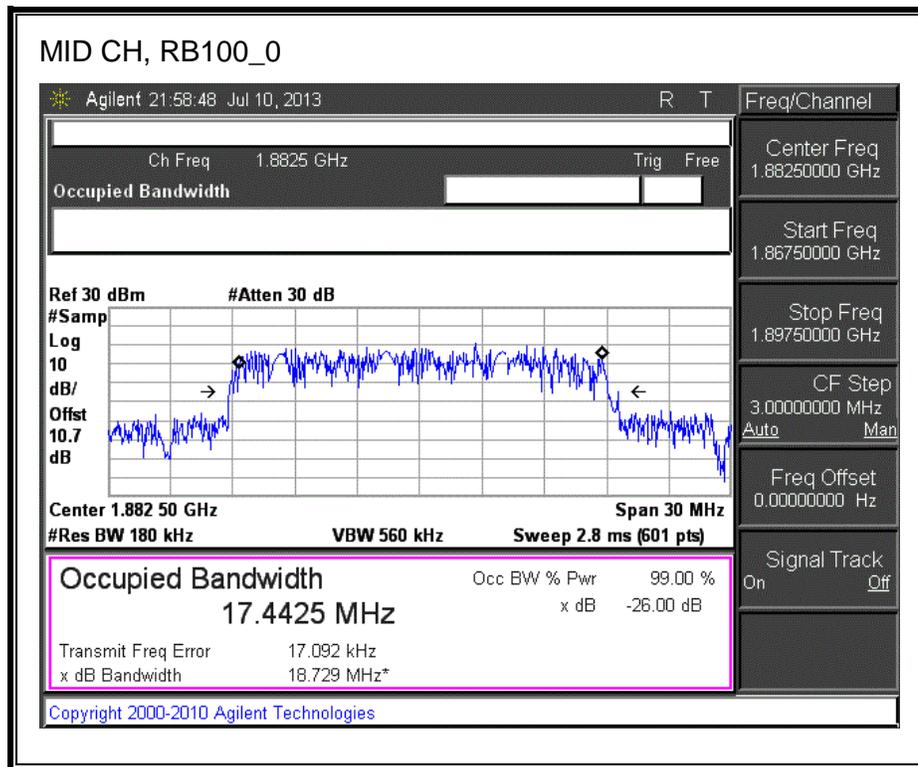
**LOW-16QAM**



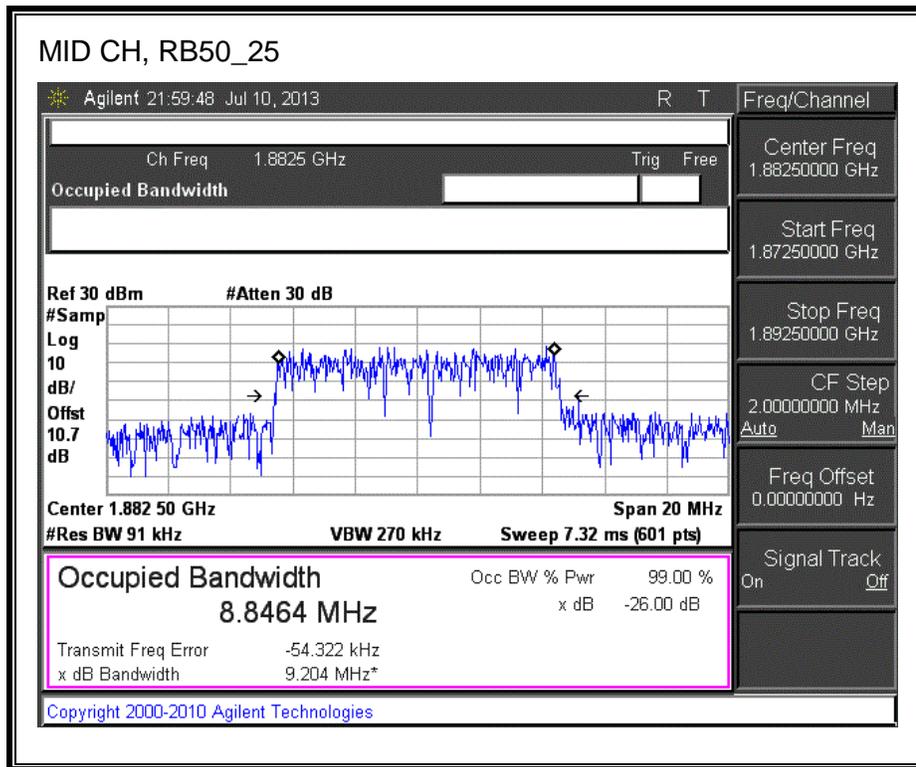


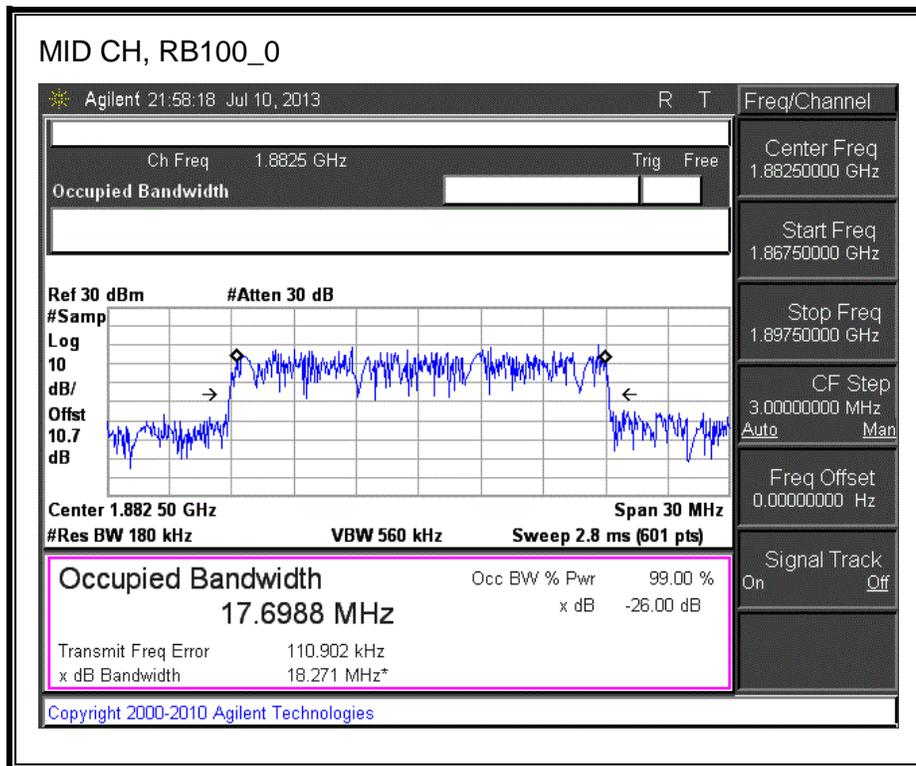
**MID-QPSK**



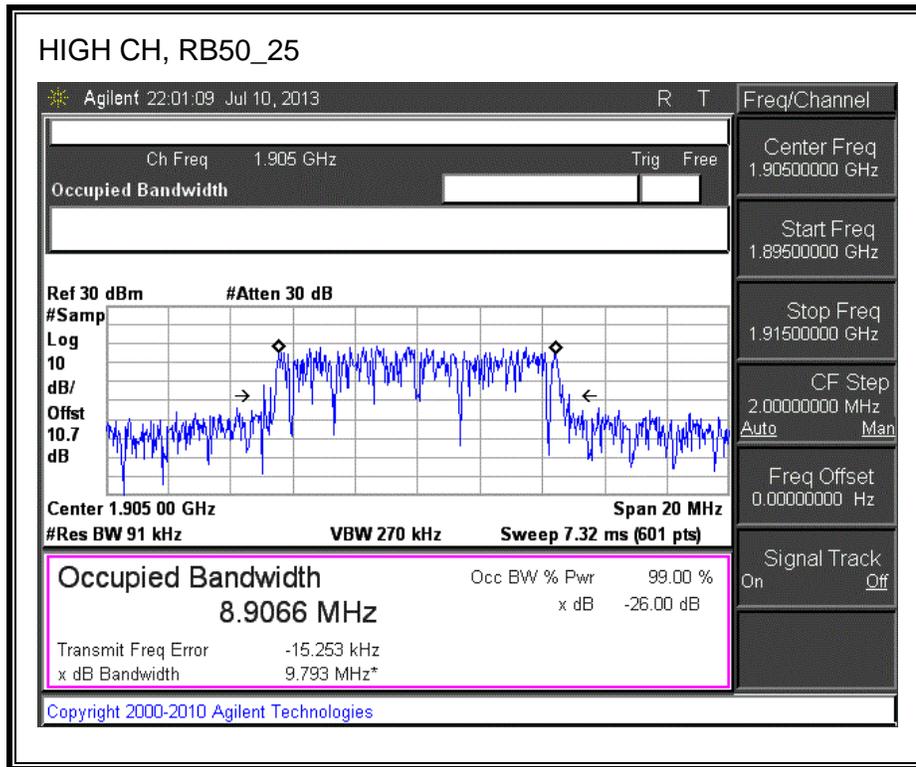


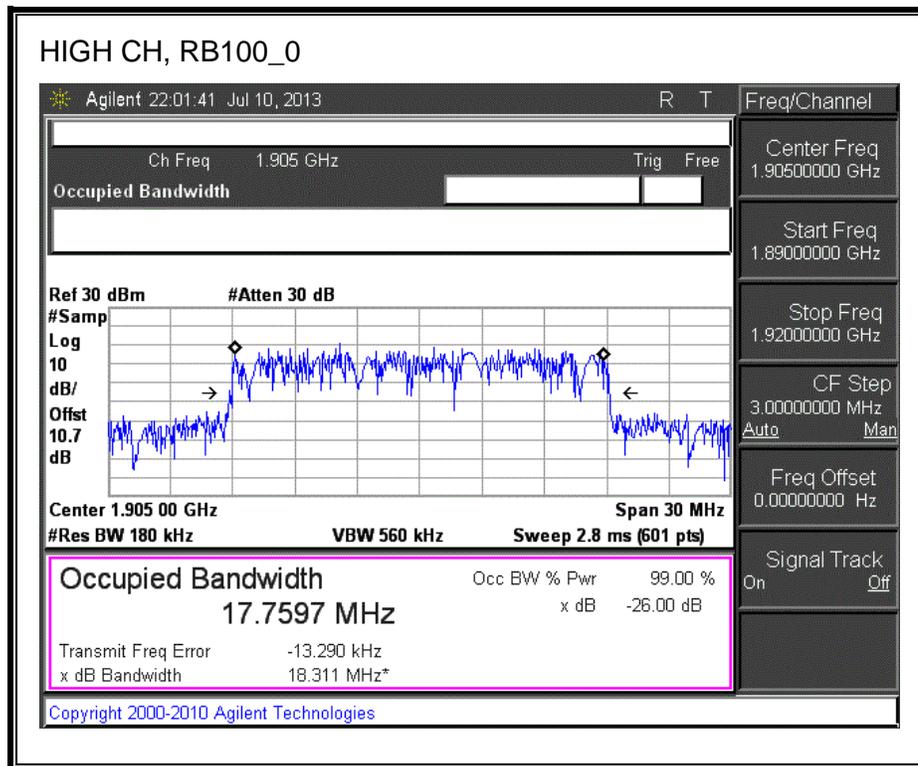
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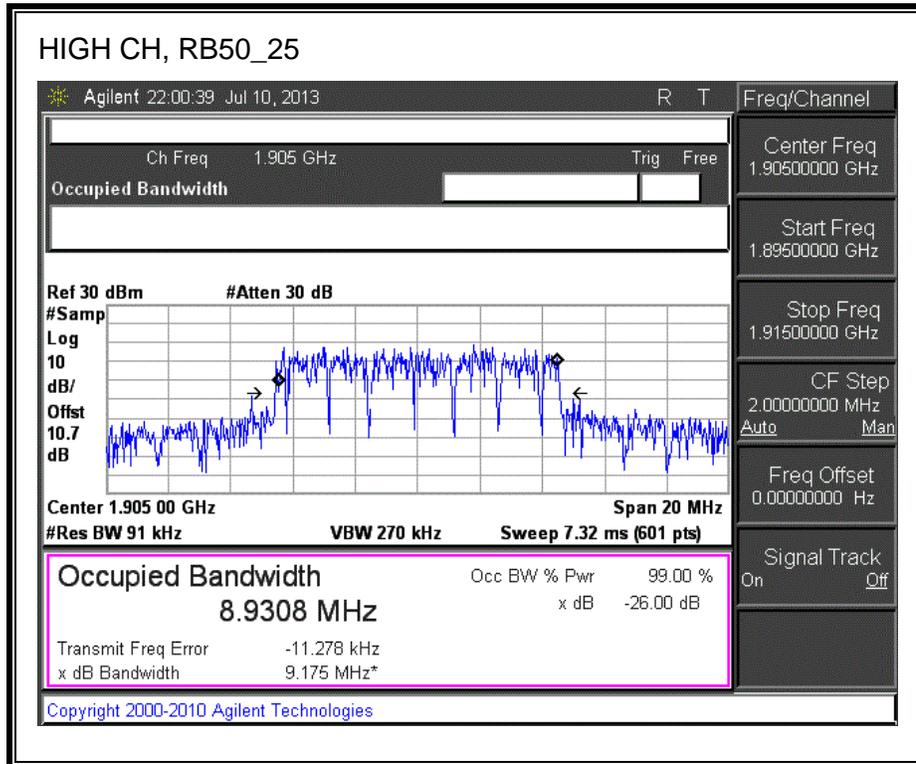


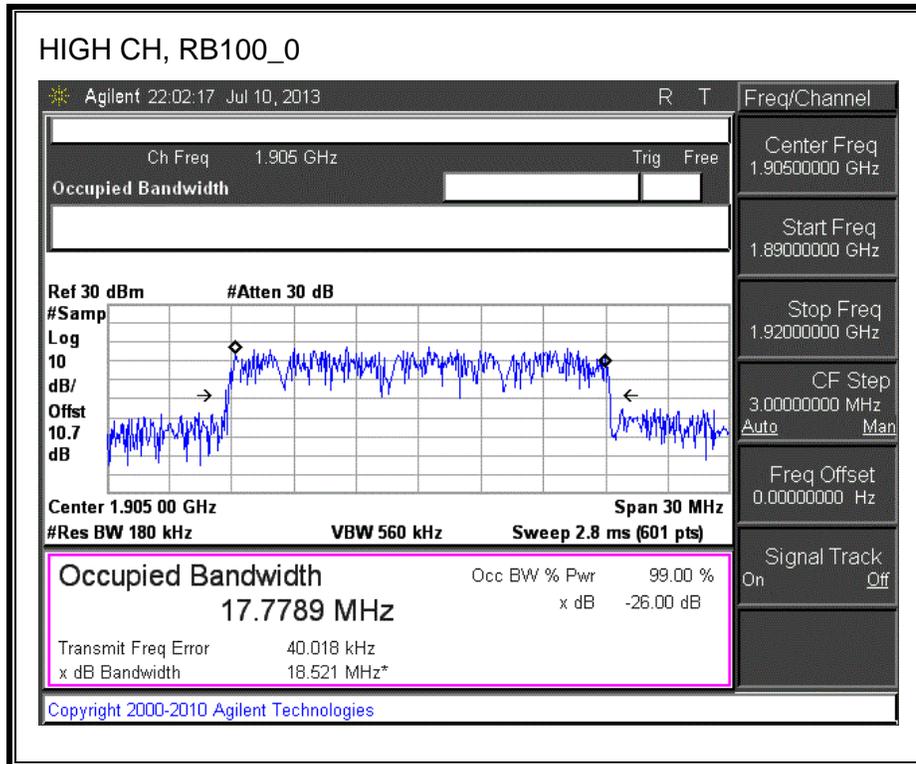
**HIGH-QPSK**





**HIGH-16QAM**

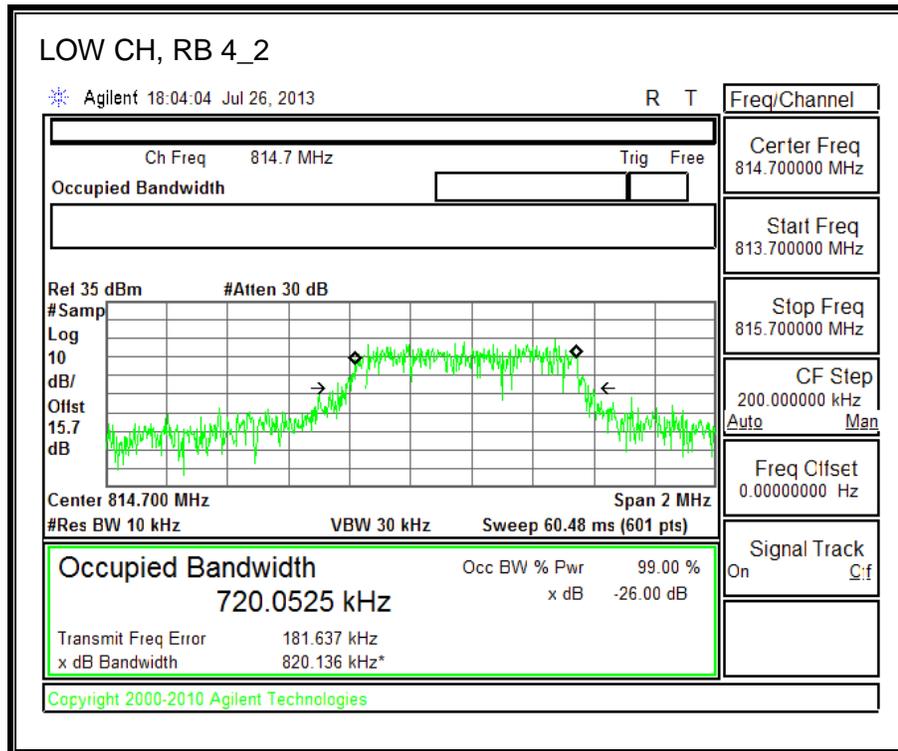


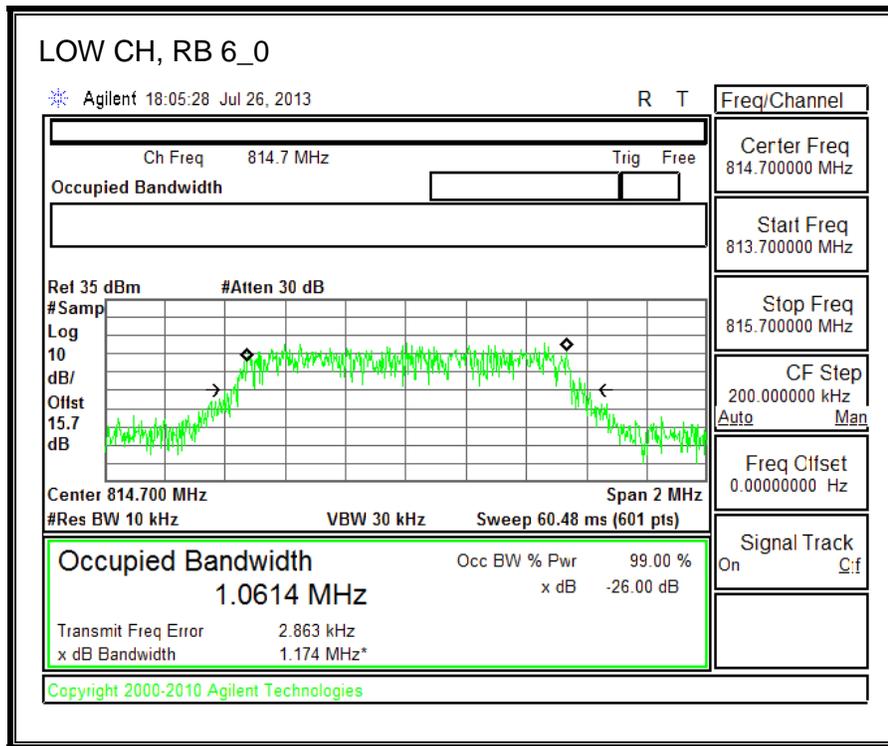


### 10.3. LTE Band 26

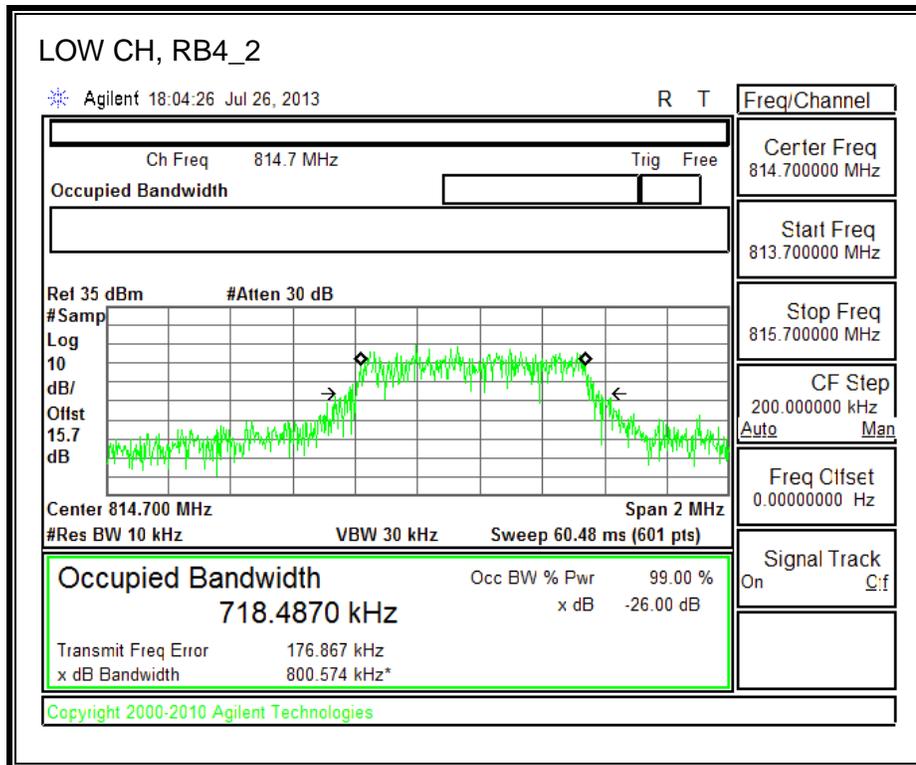
#### 10.3.1. LTE BAND 25-1.4MHz BANDWIDTH

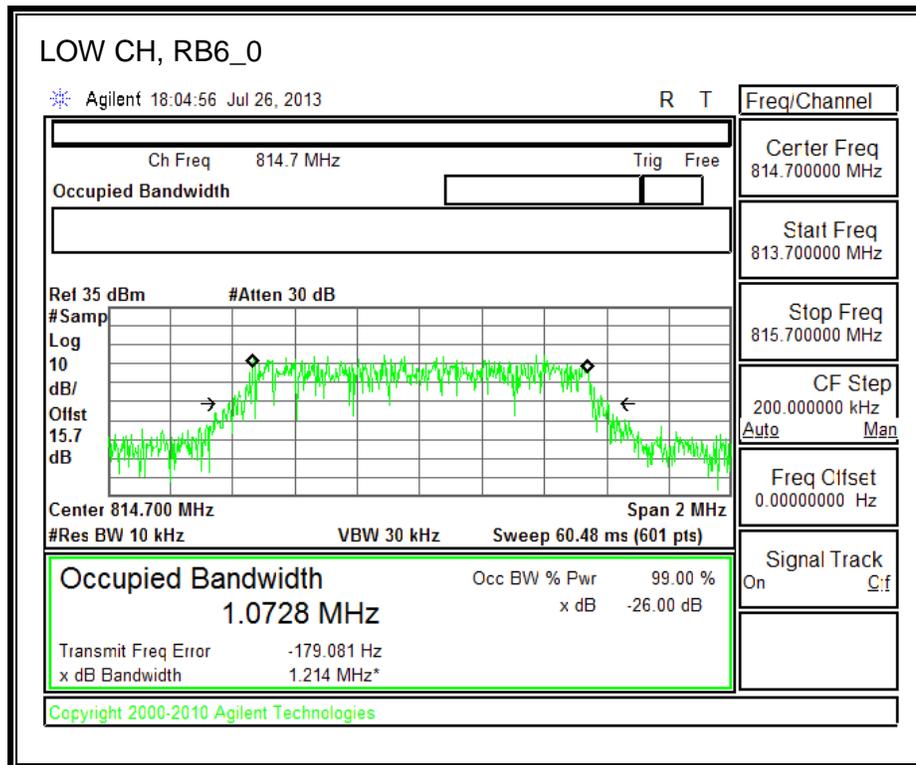
##### LOW-QPSK



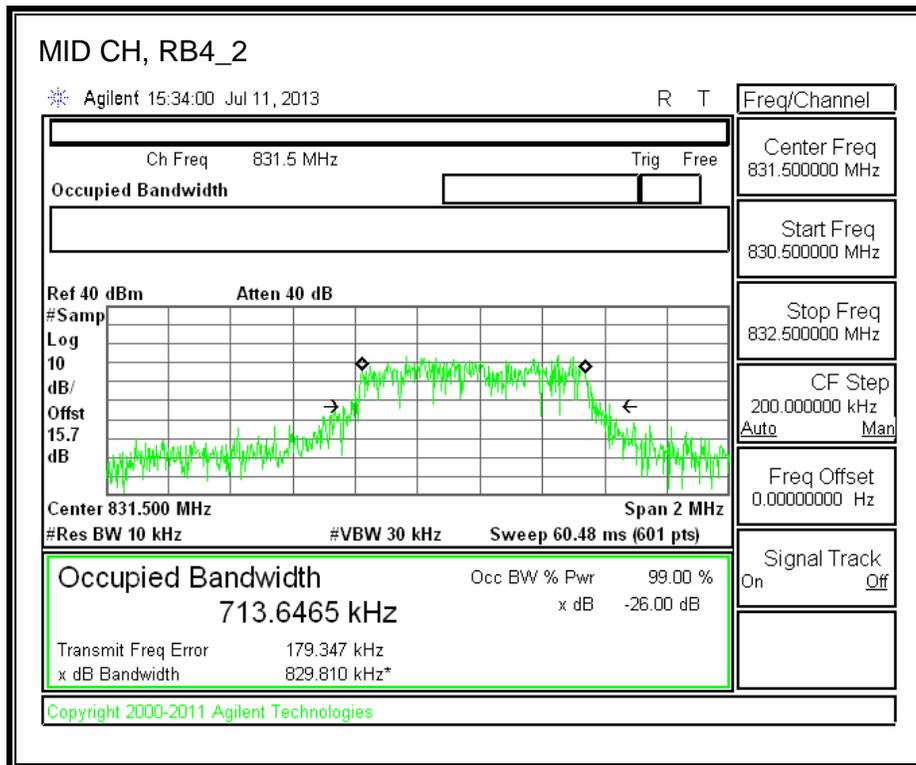


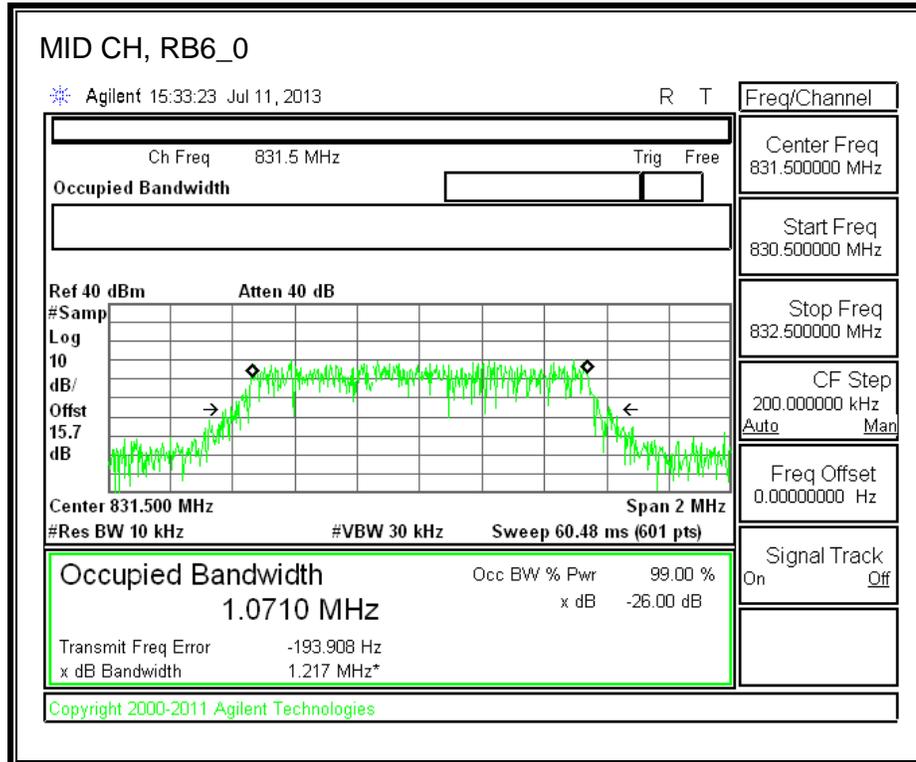
**LOW-16QAM**



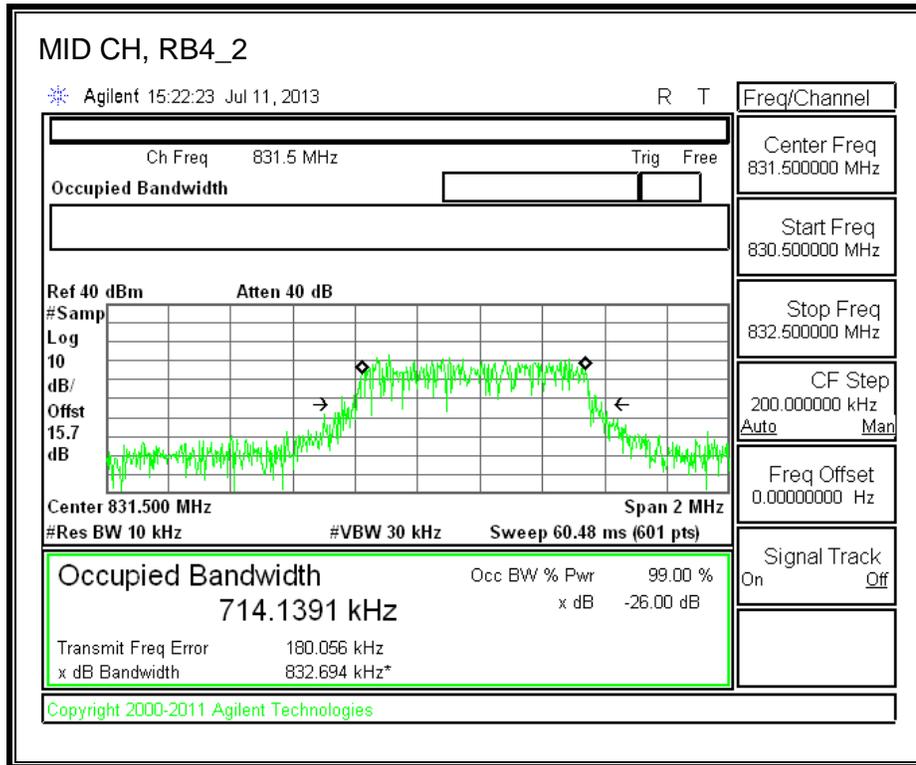


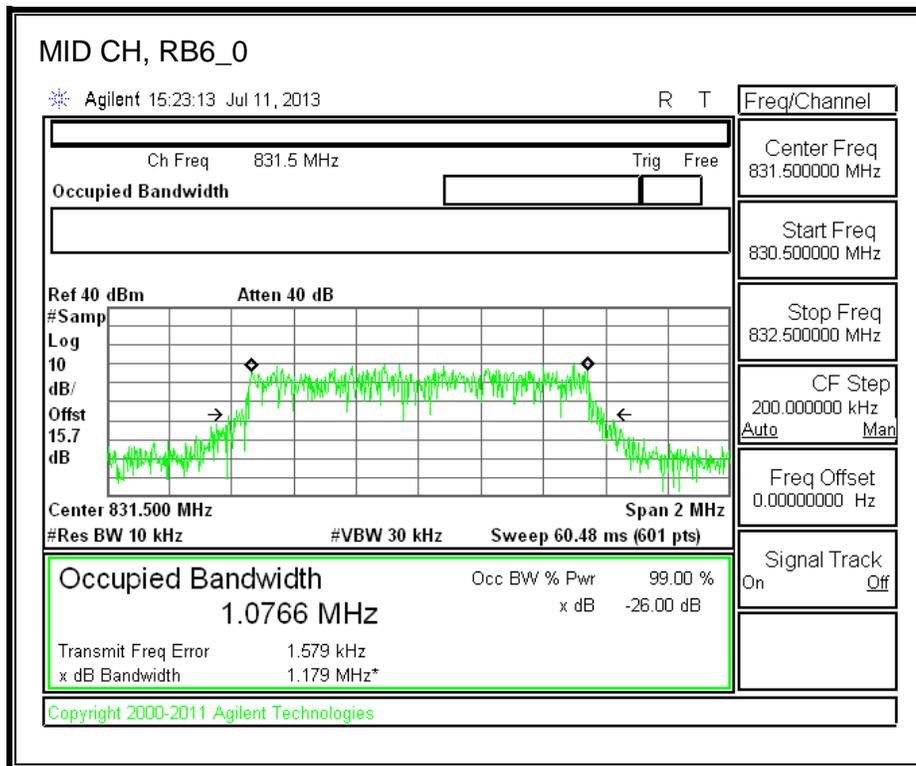
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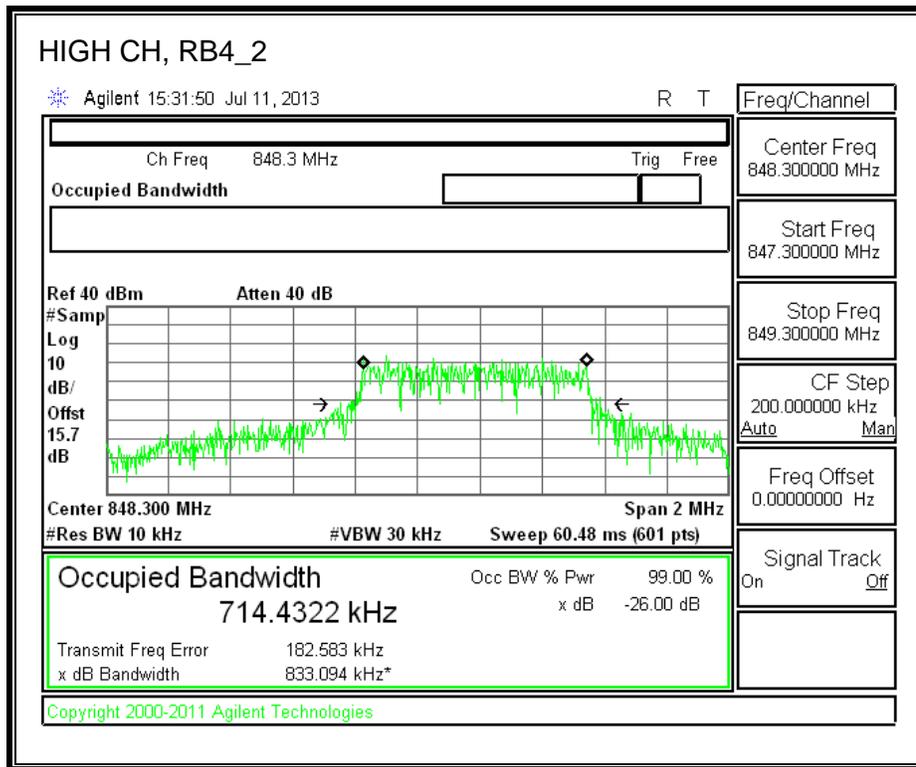


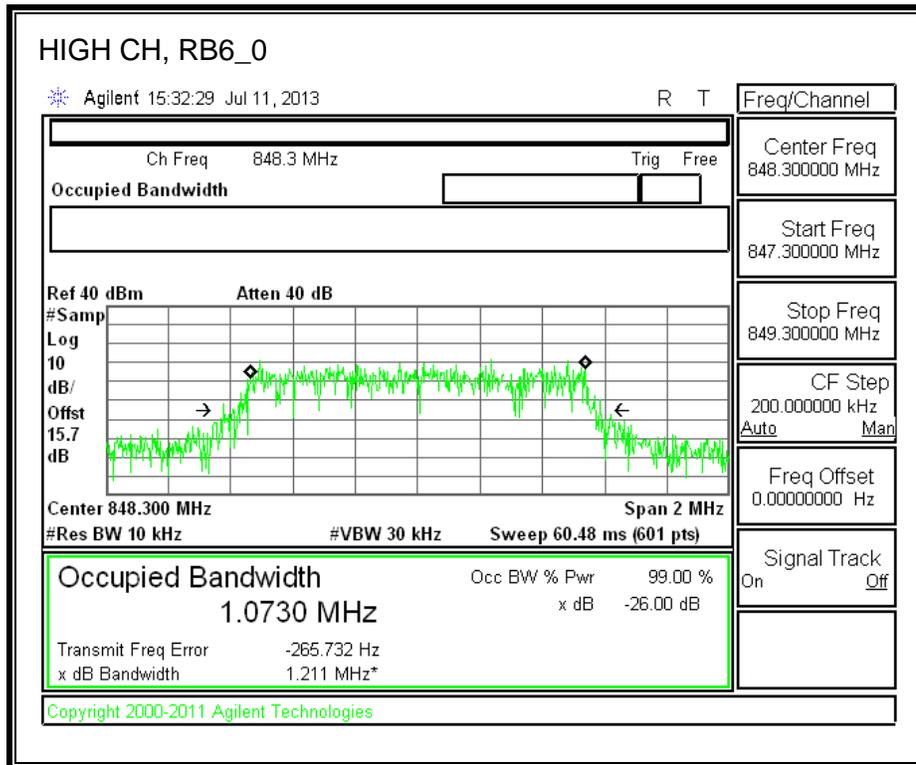
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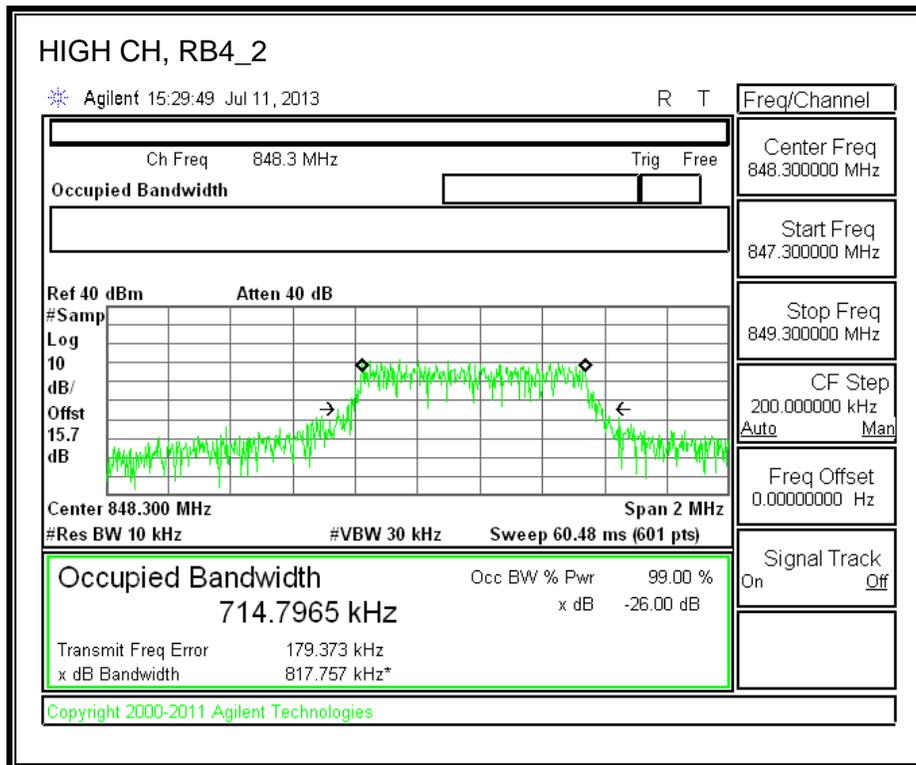


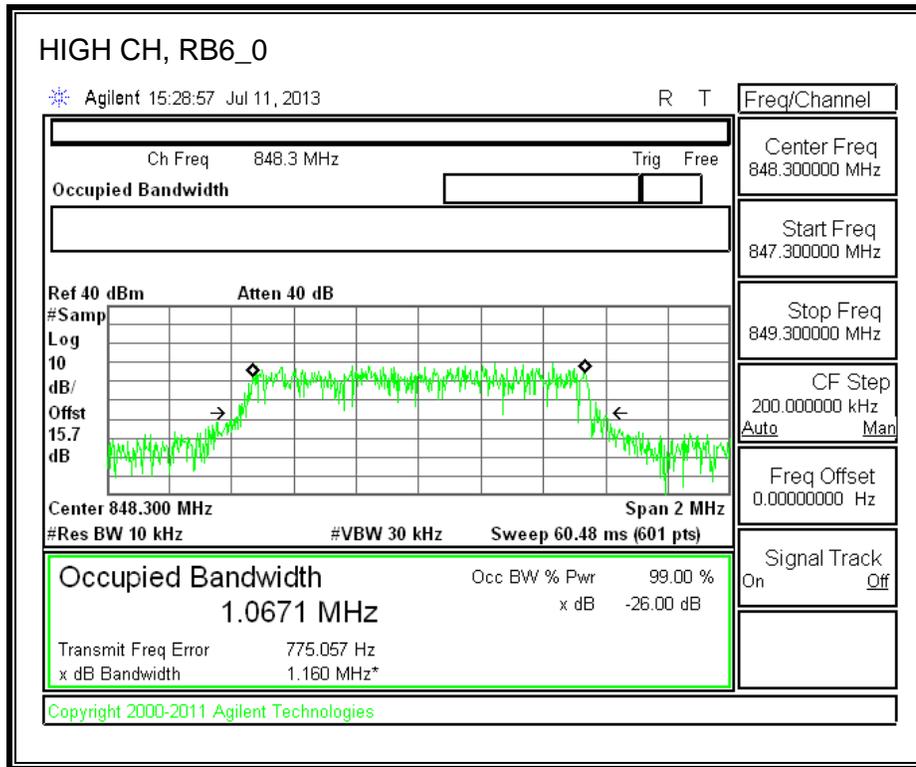
**HIGH-QPSK**





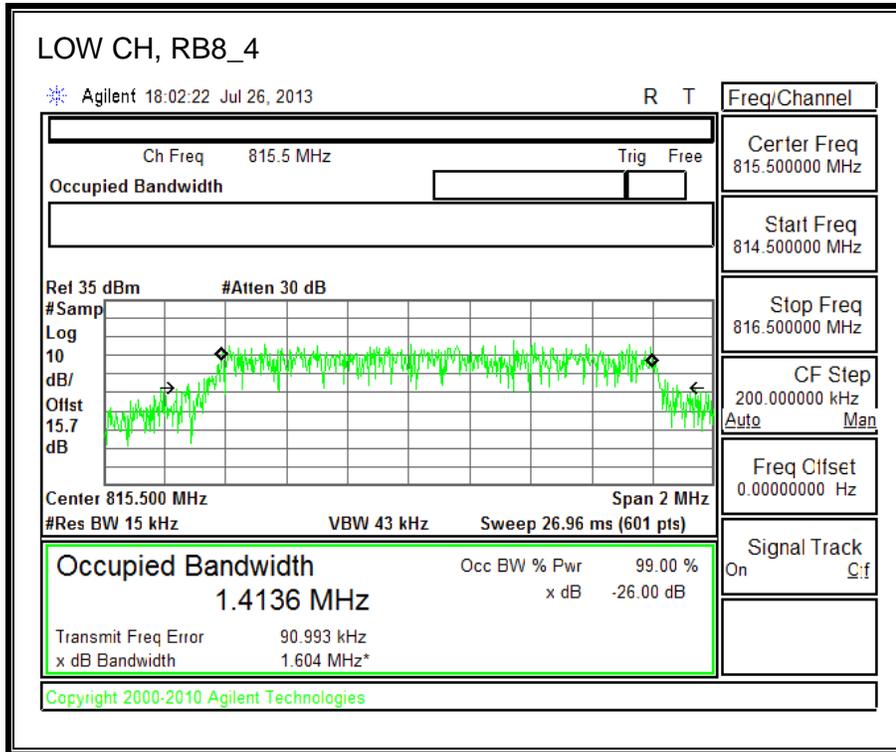
**HIGH-16QAM**

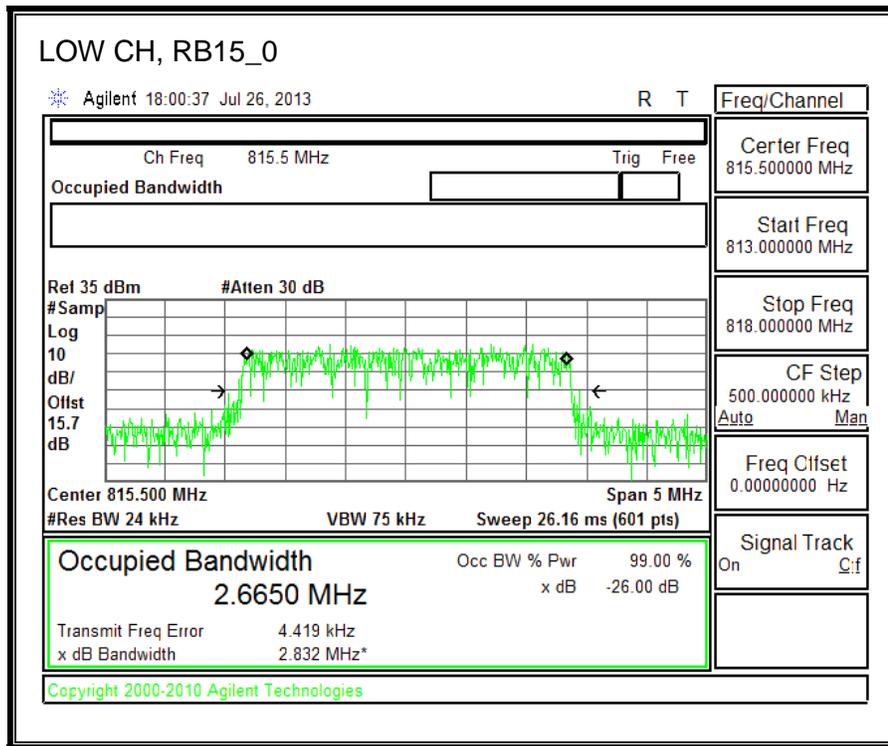




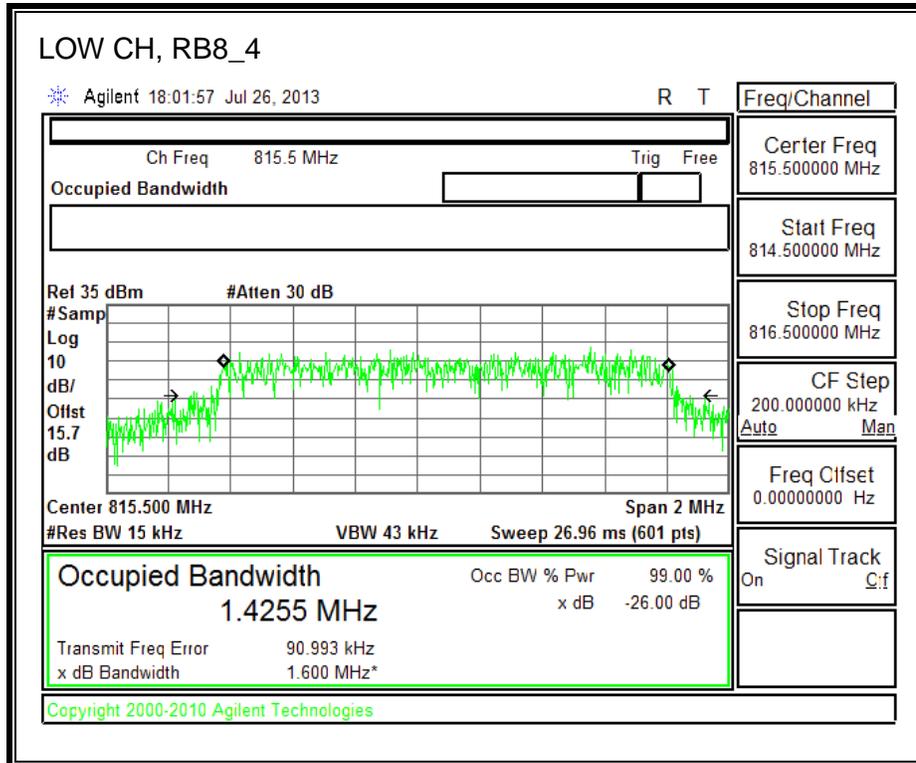
### 10.3.2. LTE BAND 25-3MHz BANDWIDTH

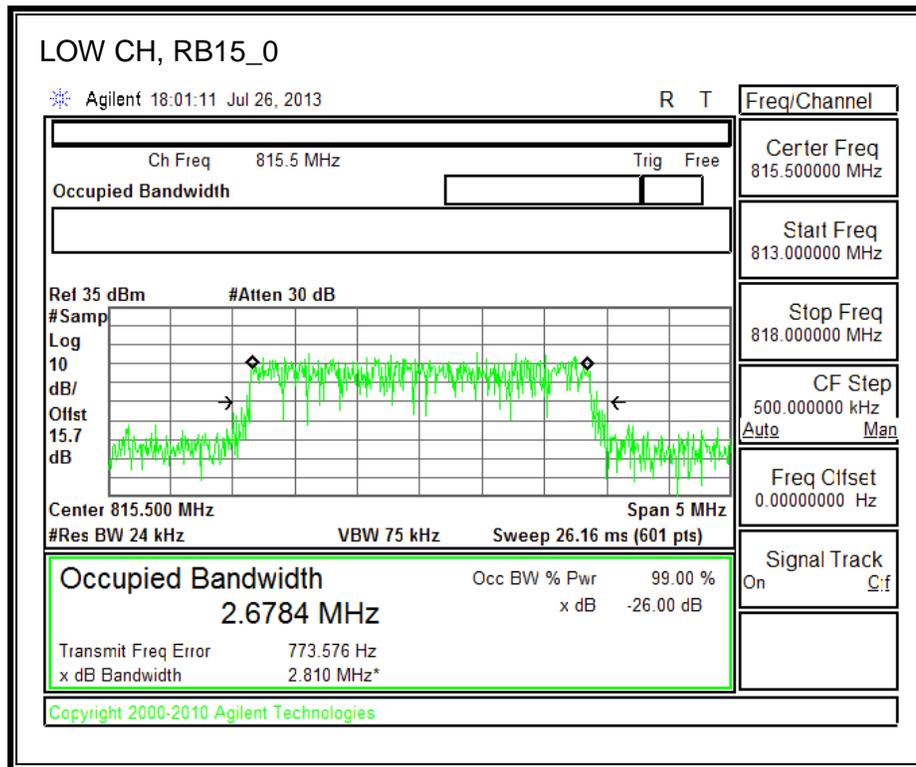
#### LOW-QPSK



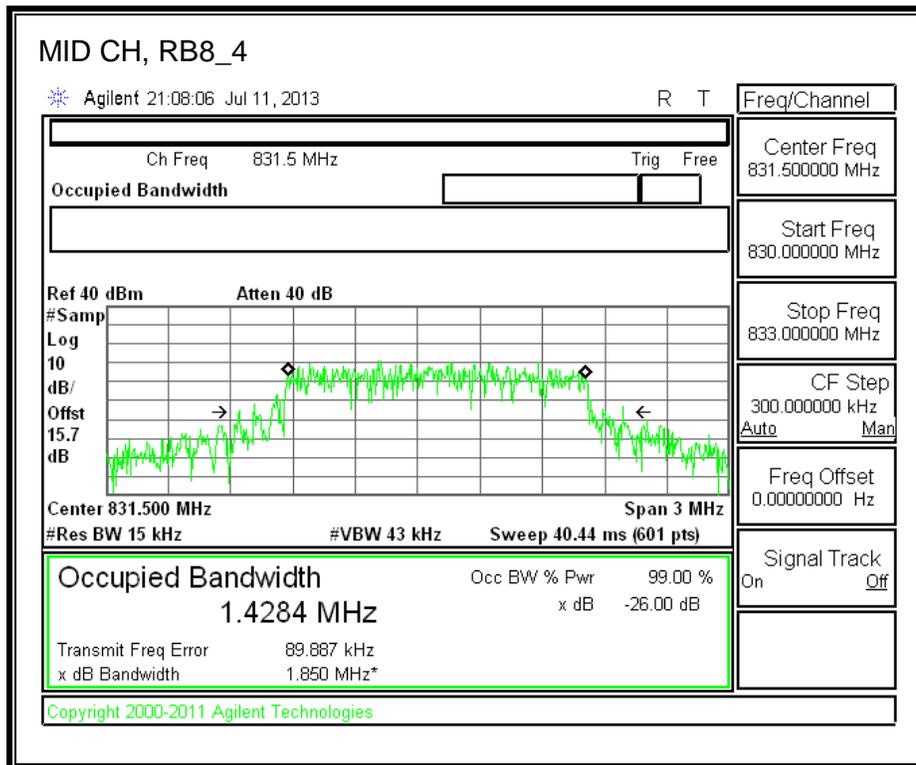


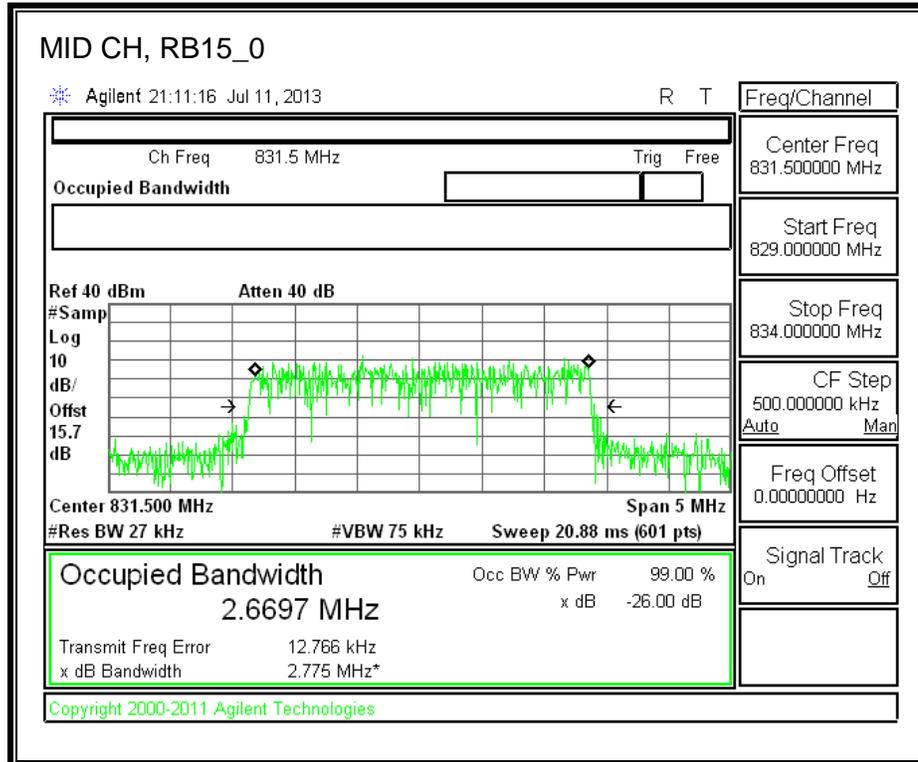
**LOW-16QAM**



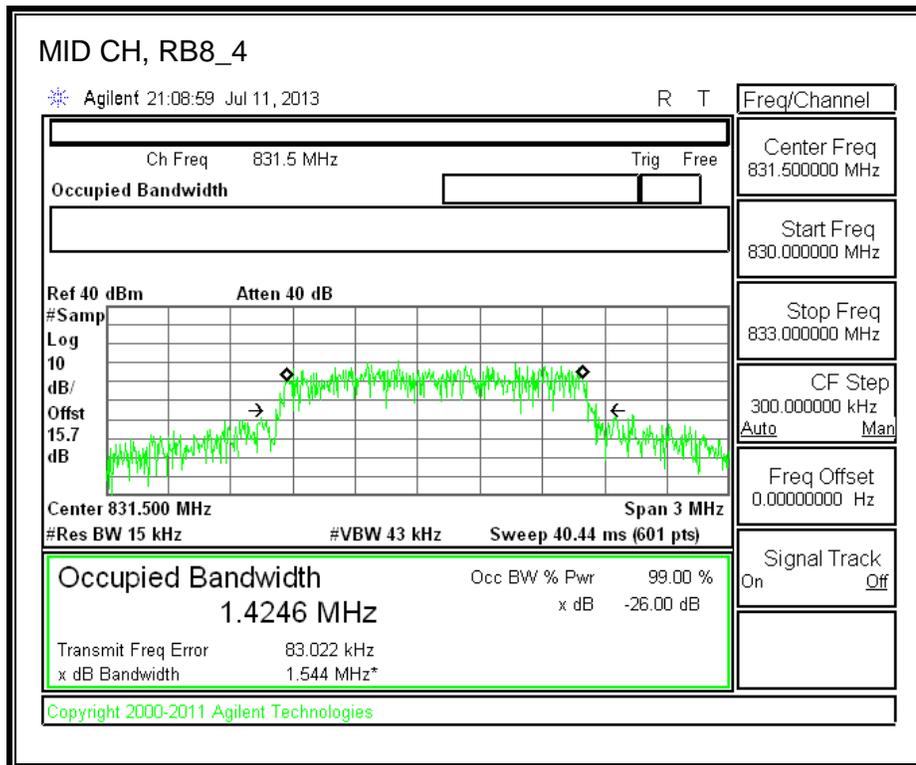


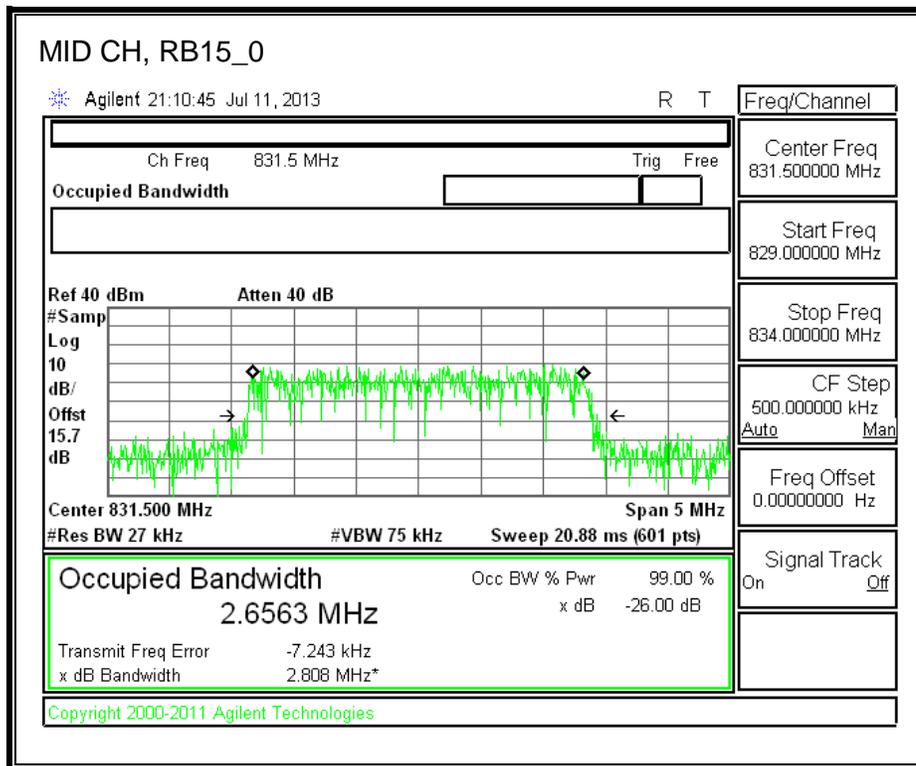
**MID-QPSK**



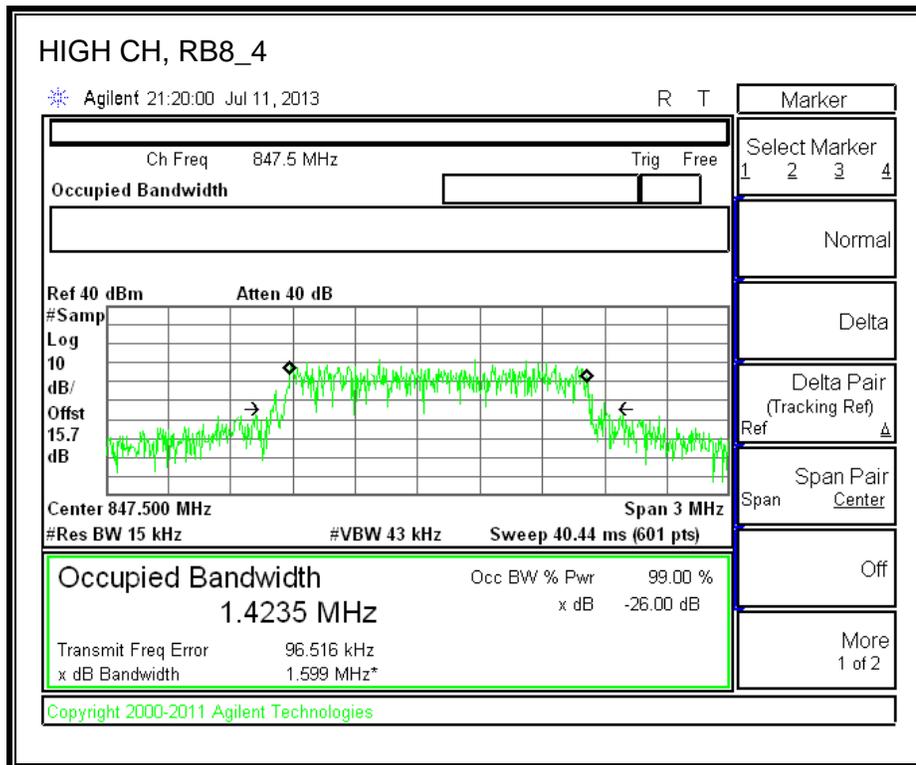


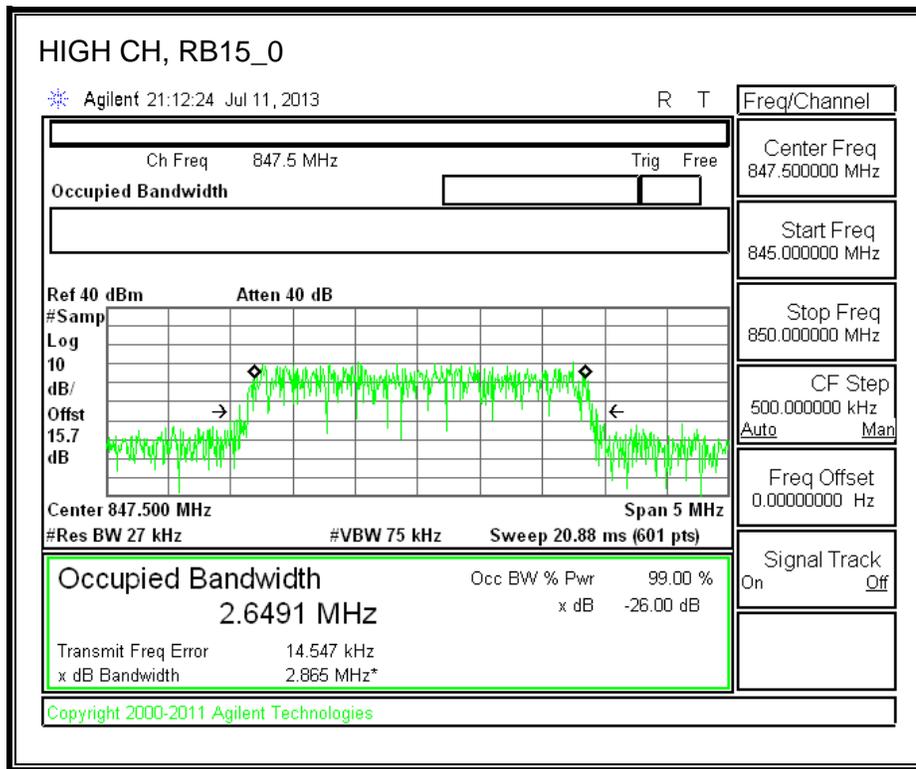
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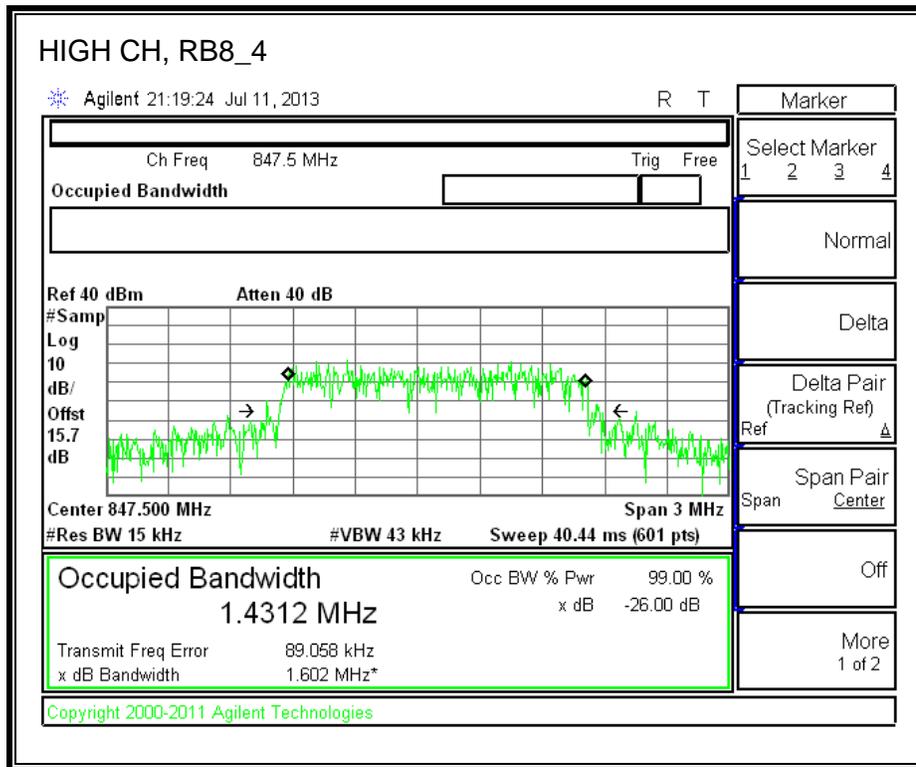


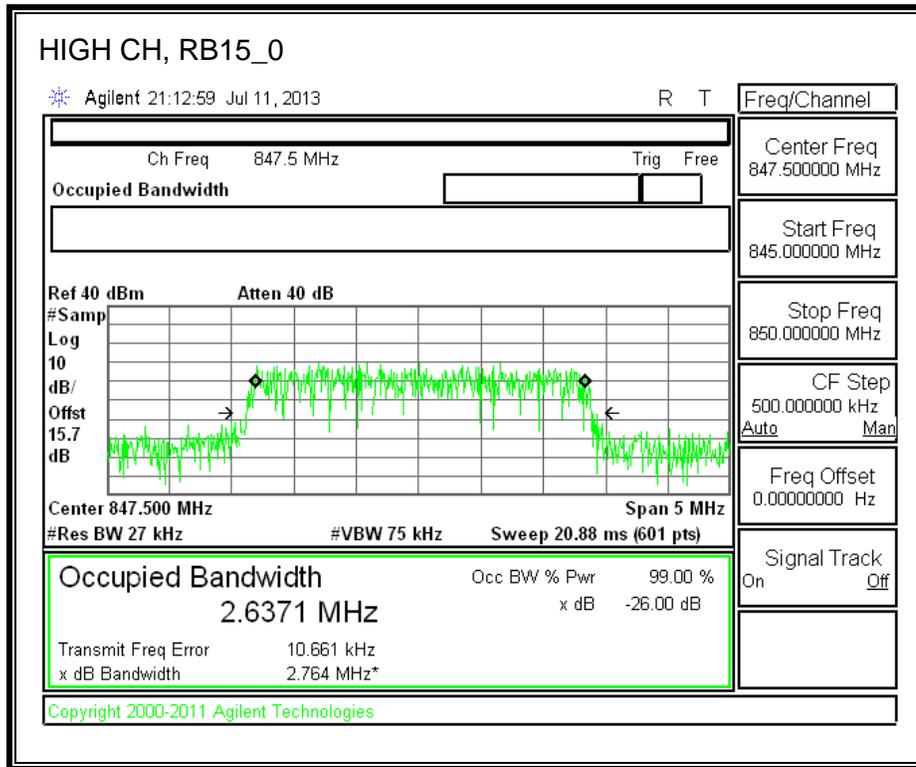
**HIGH-QPSK**





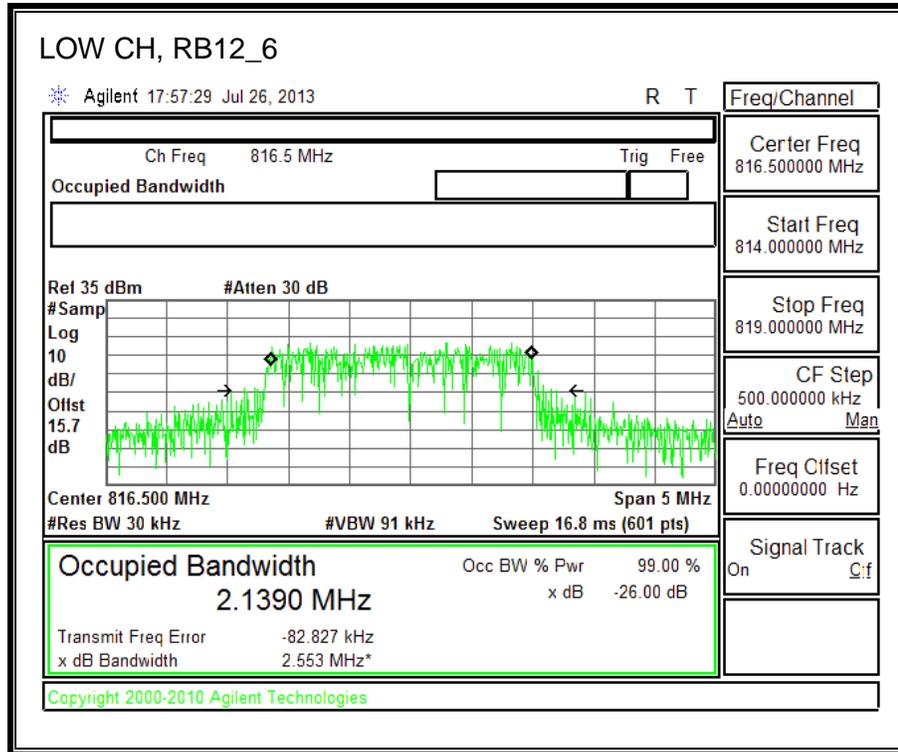
**HIGH-16QAM**

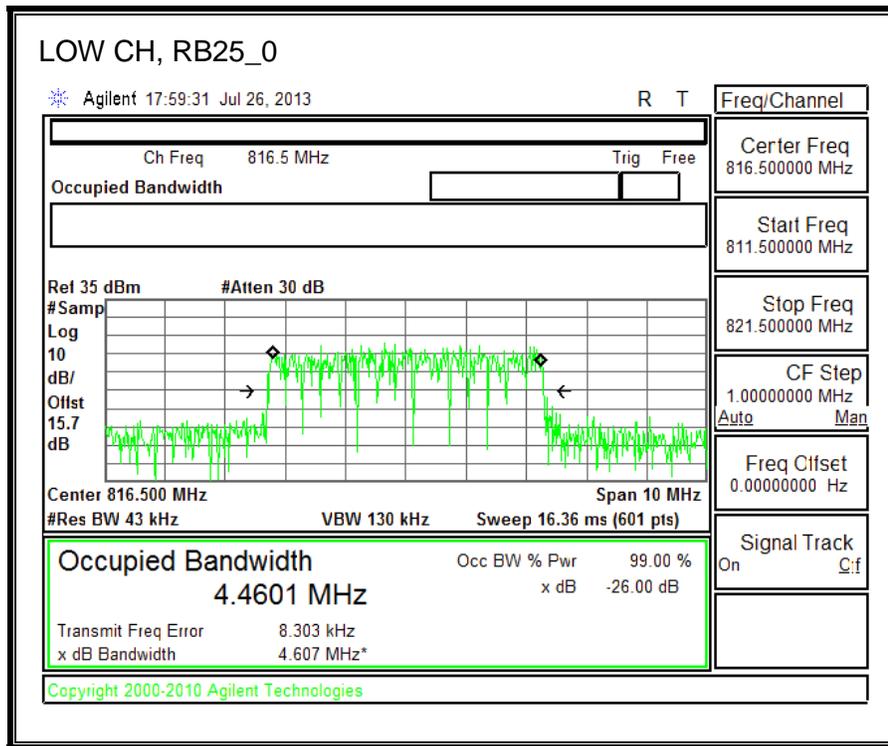




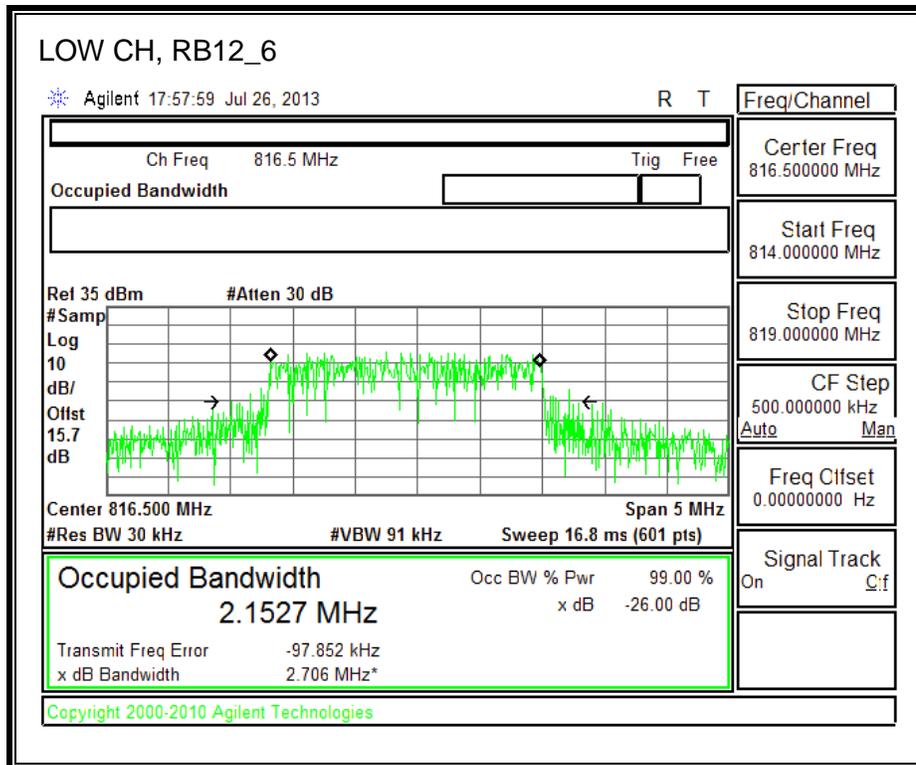
### 10.3.3. LTE BAND 26-5MHz BANDWIDTH

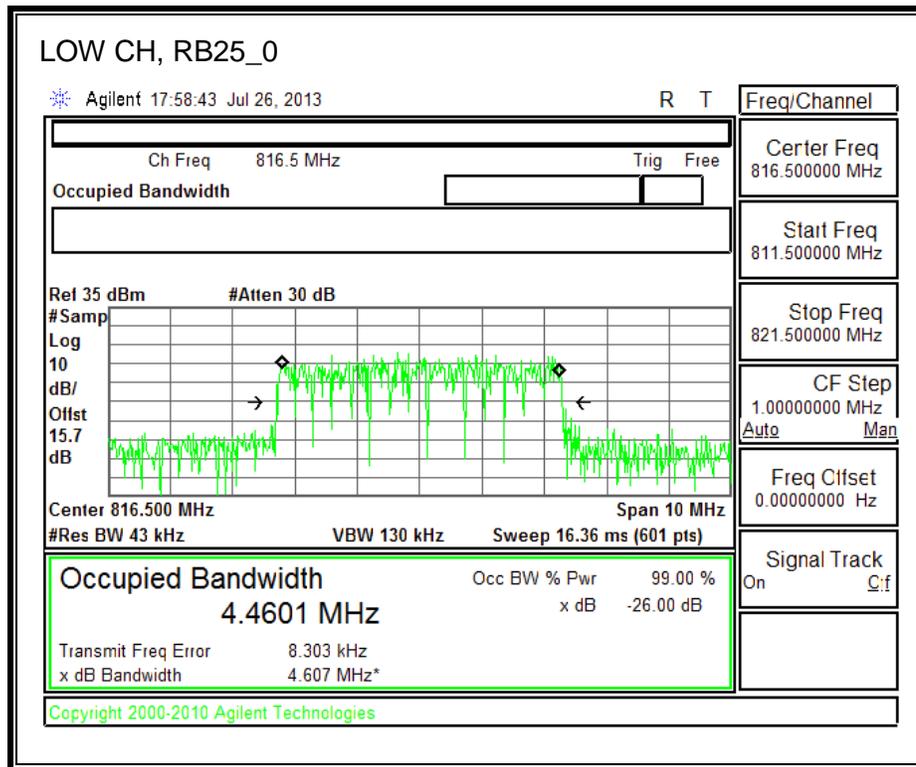
#### LOW-QPSK



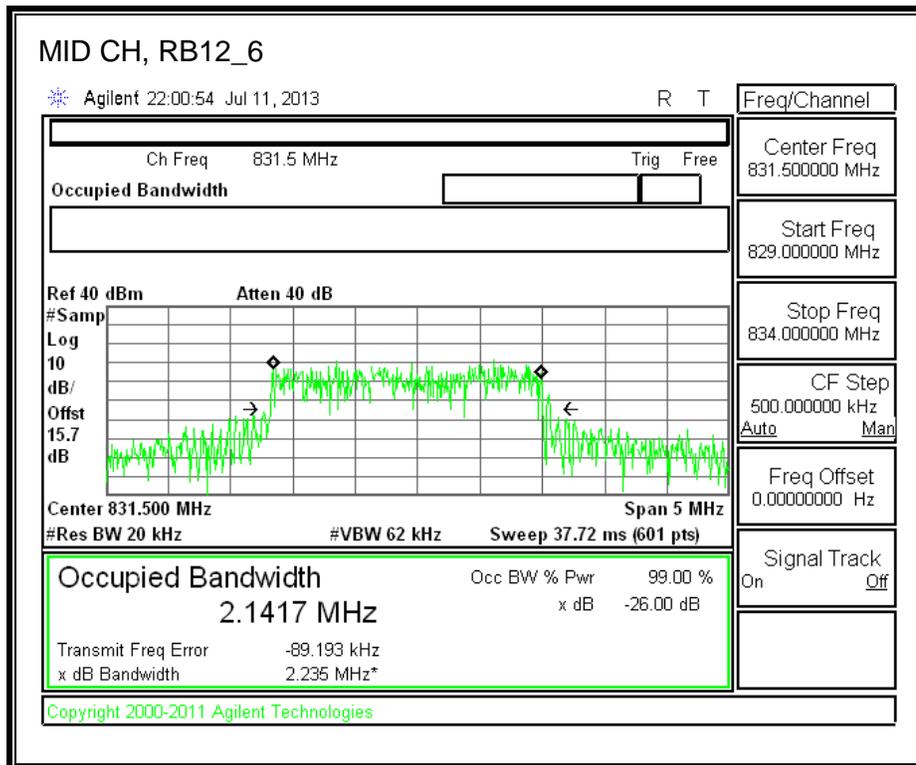


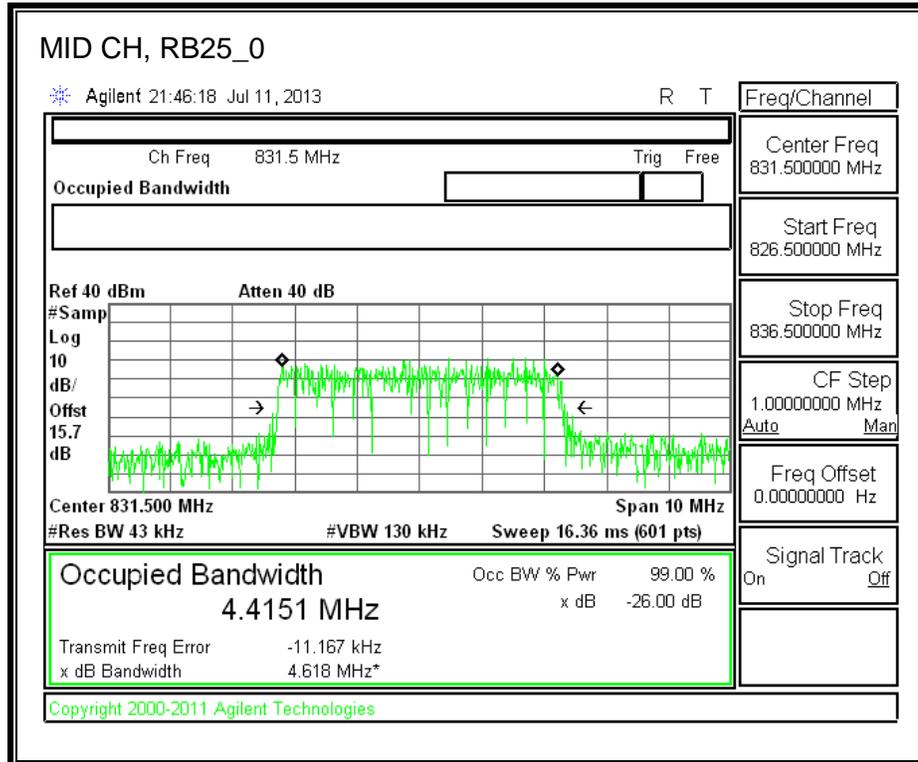
**LOW-16QAM**



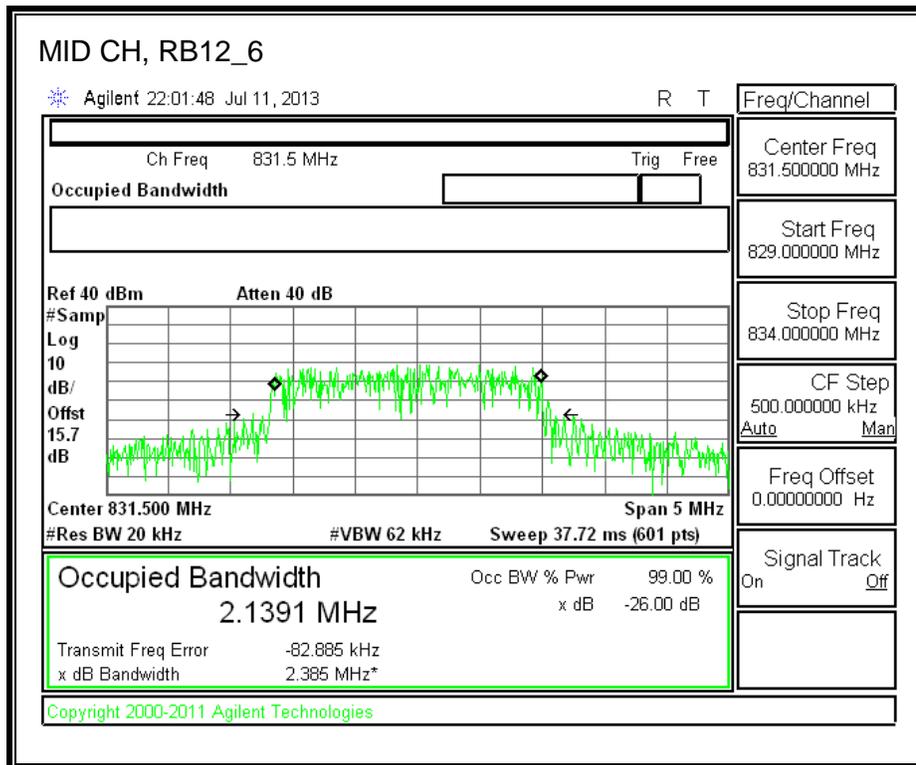


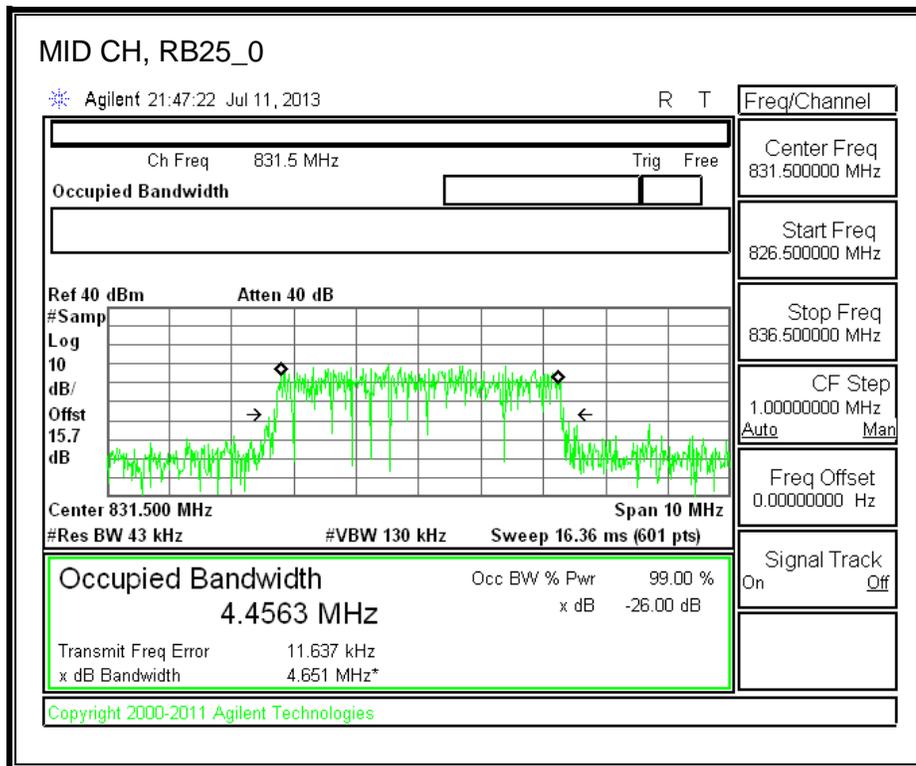
**MID-QPSK**



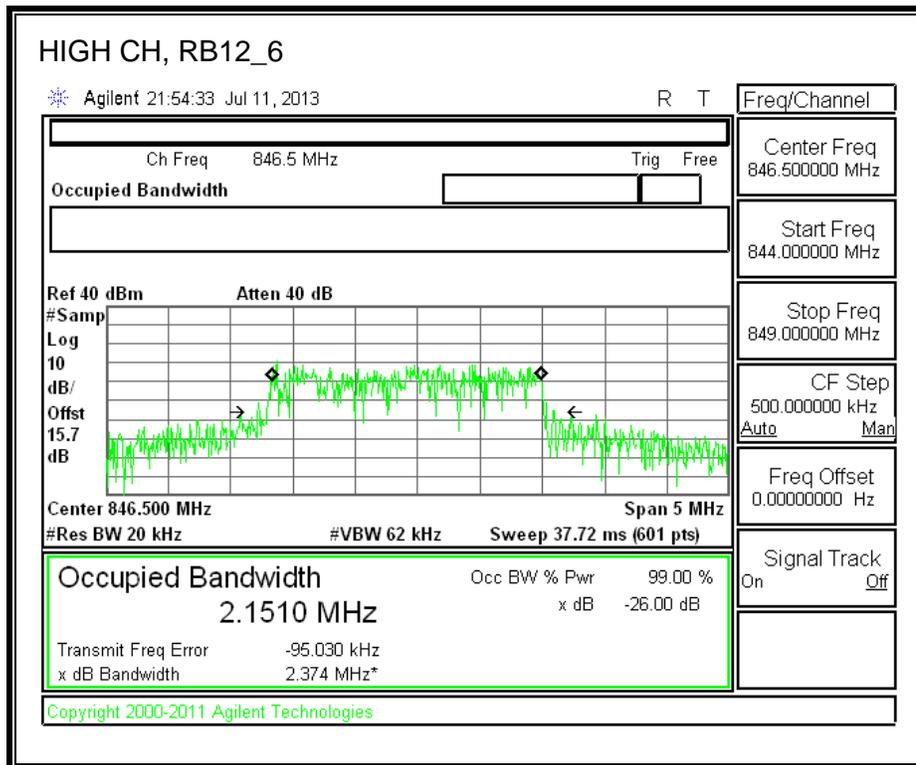


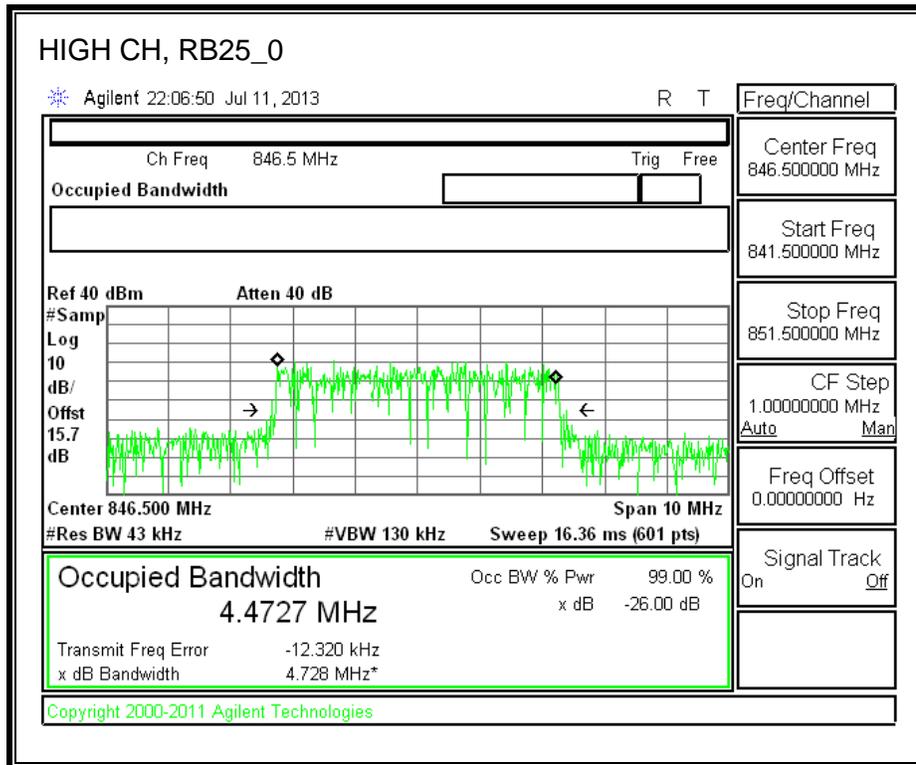
**MID-16QAM**



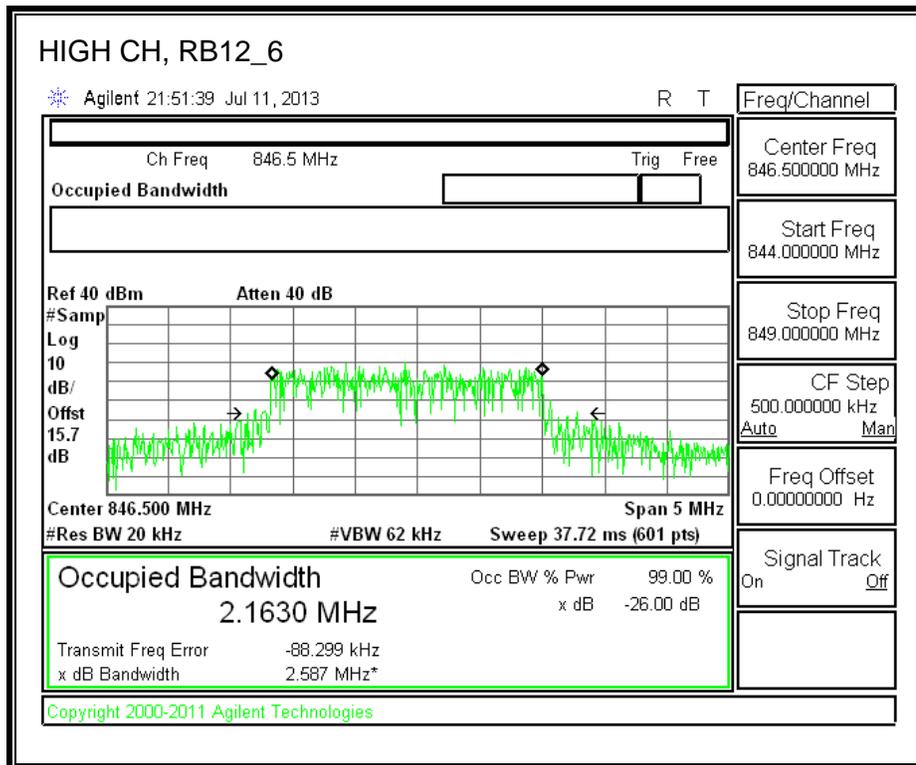


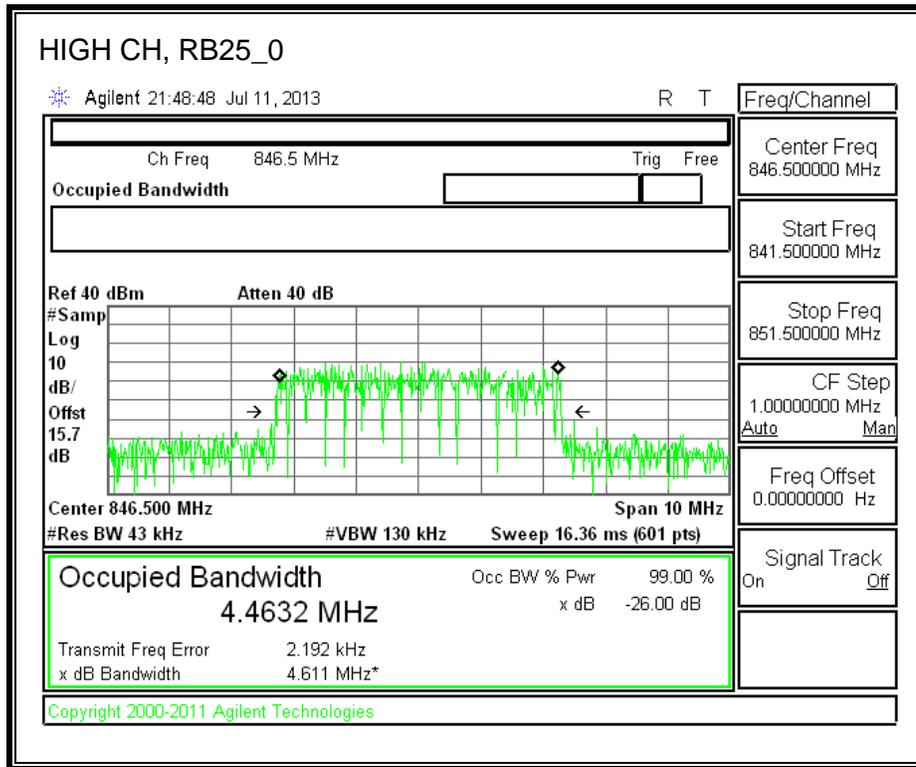
**HIGH-QPSK**





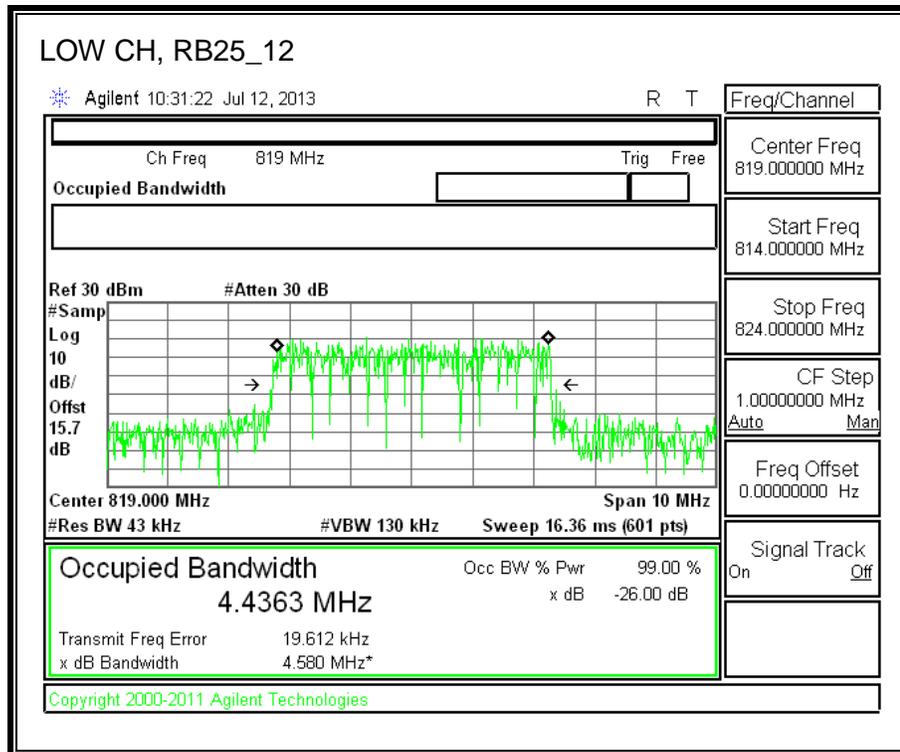
**HIGH-16QAM**

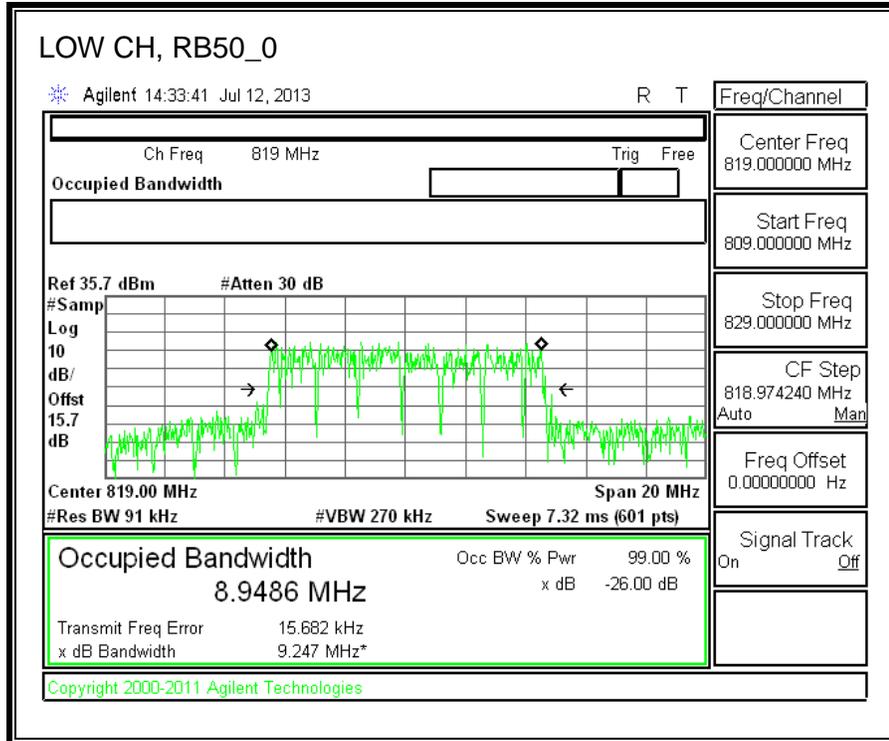




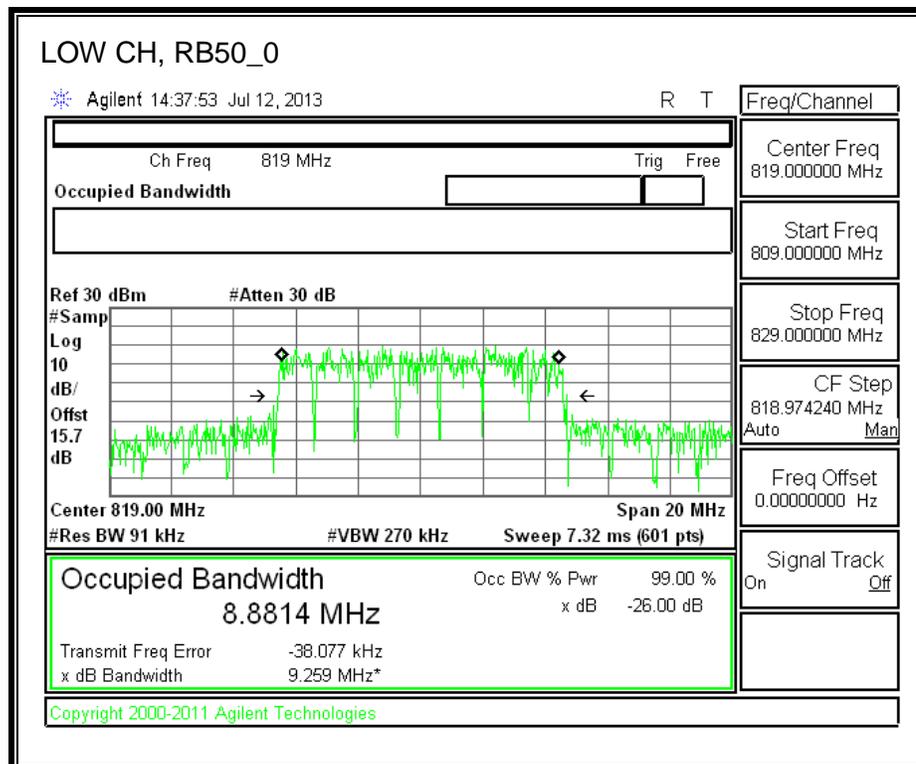
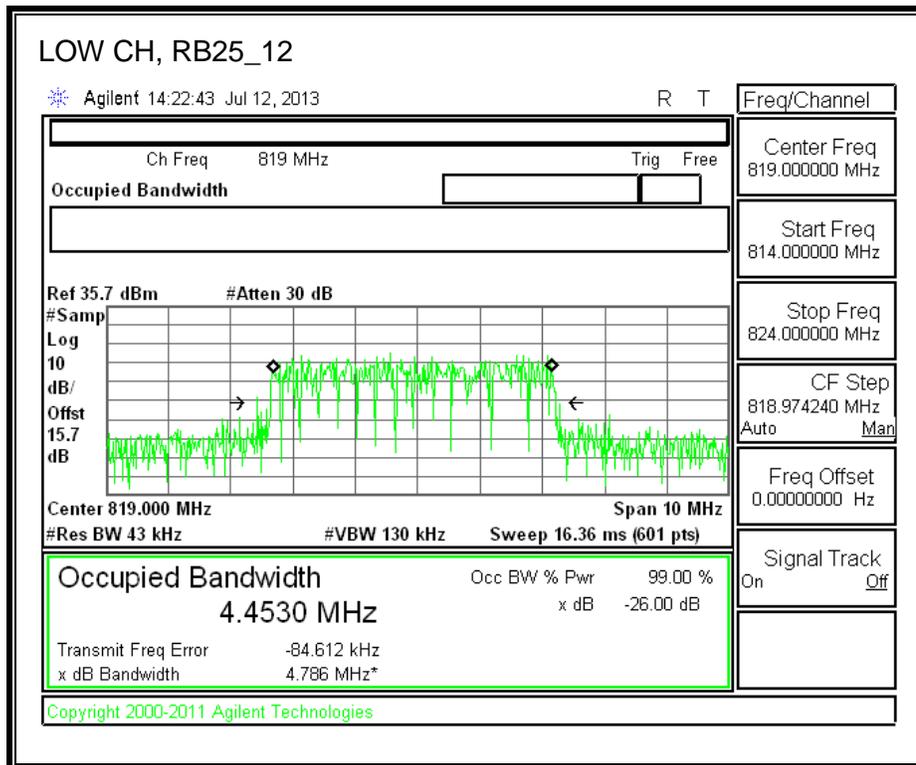
### 10.3.4. LTE BAND 26-10MHz BANDWIDTH

#### LOW-QPSK

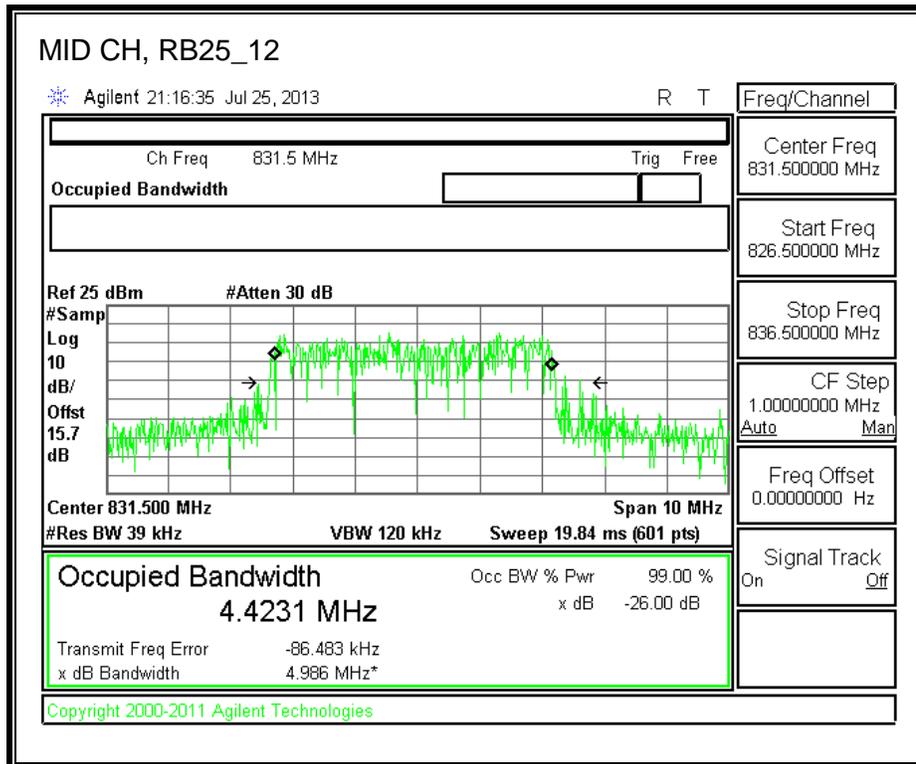


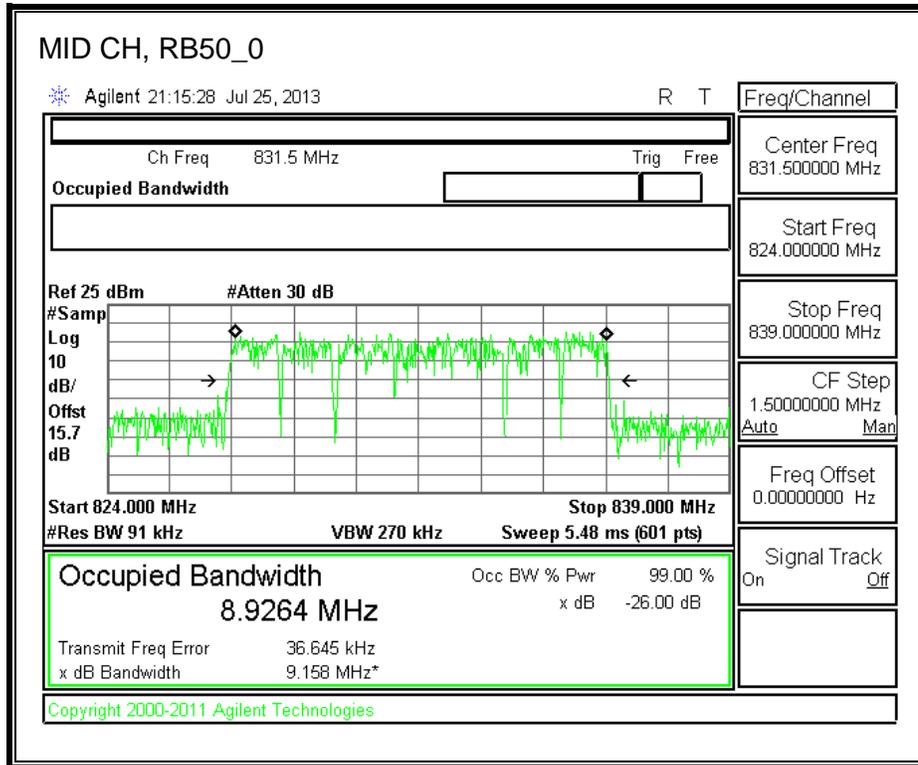


**LOW-16QAM**

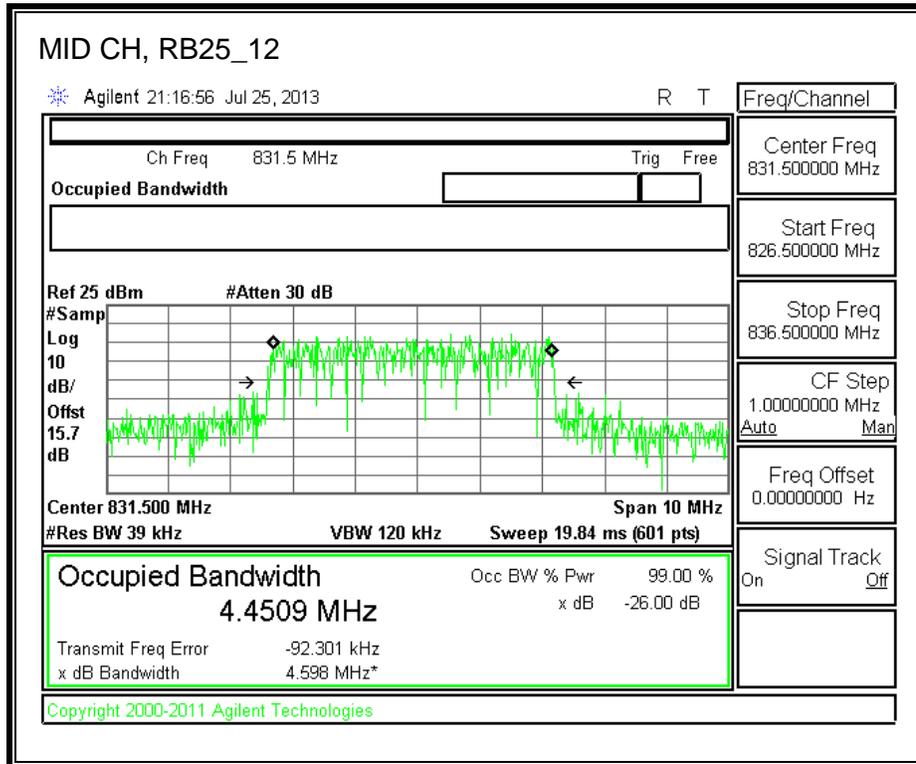


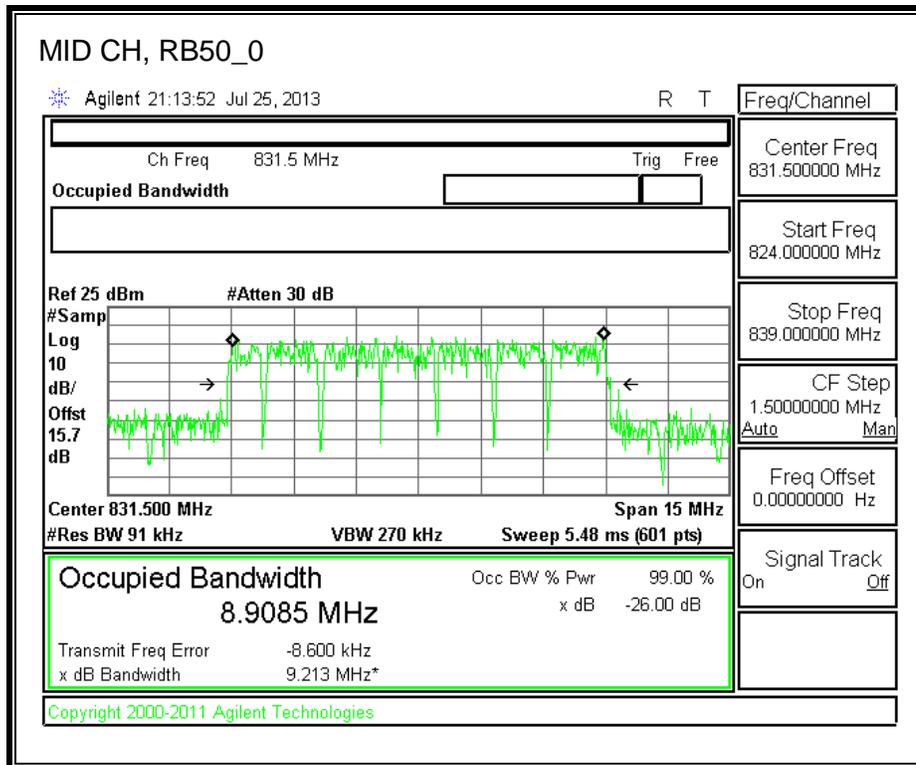
**MID-QPSK**



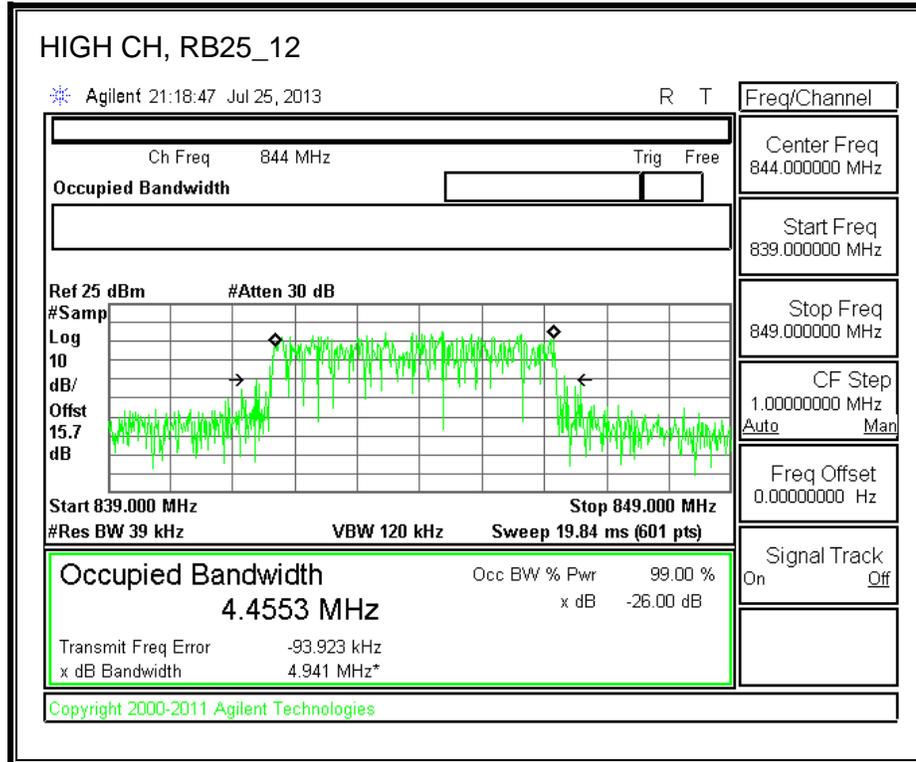


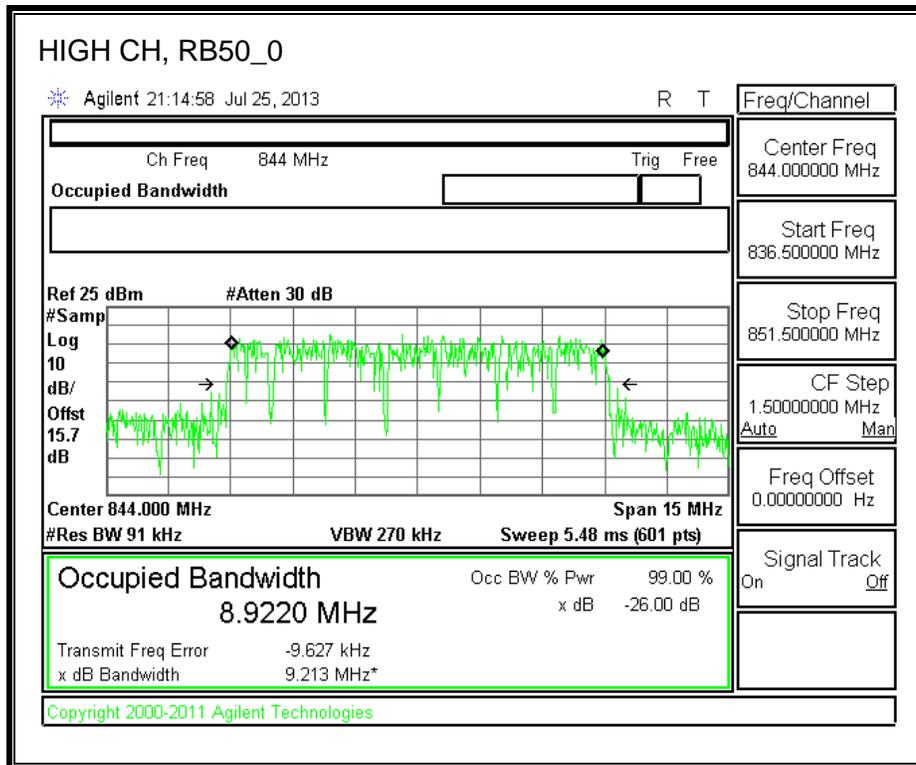
**MID-16QAM**



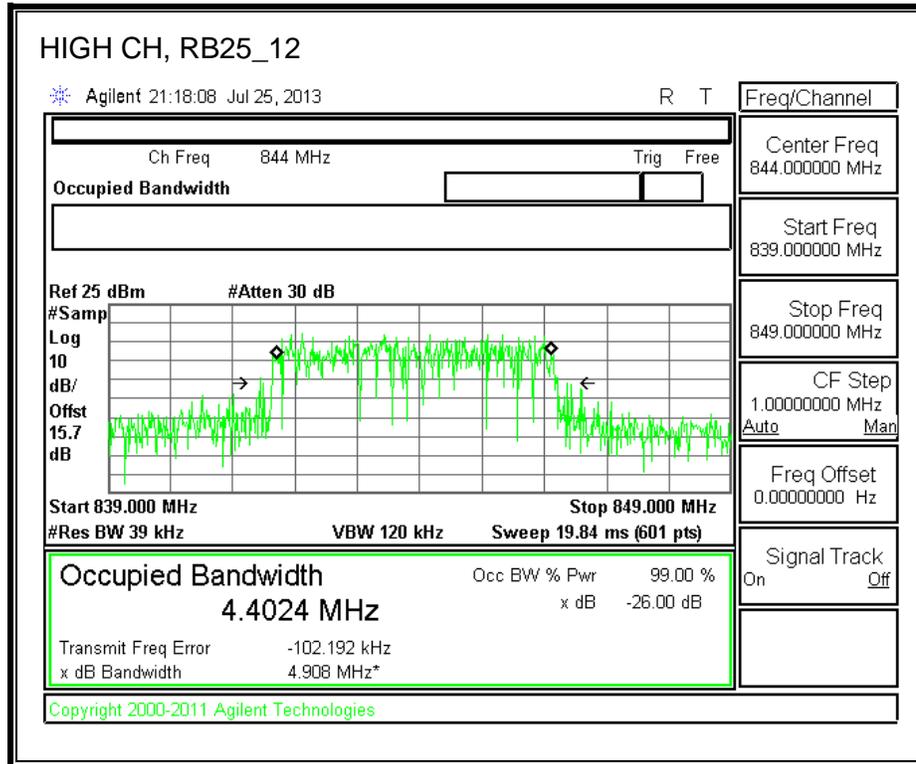


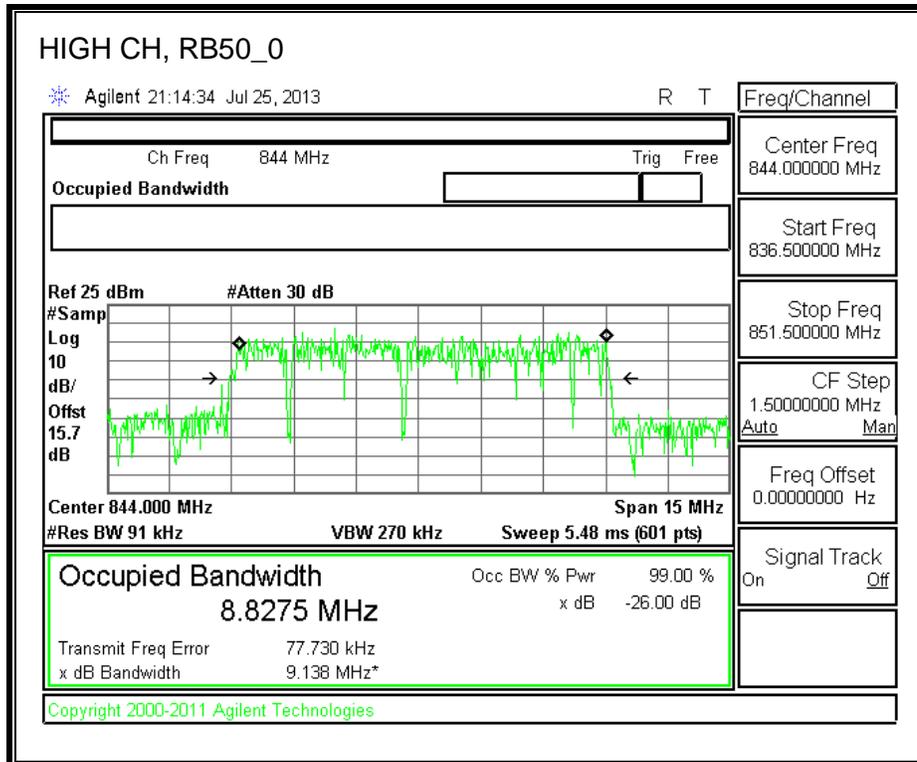
**HIGH-QPSK**





**HIGH-16QAM**

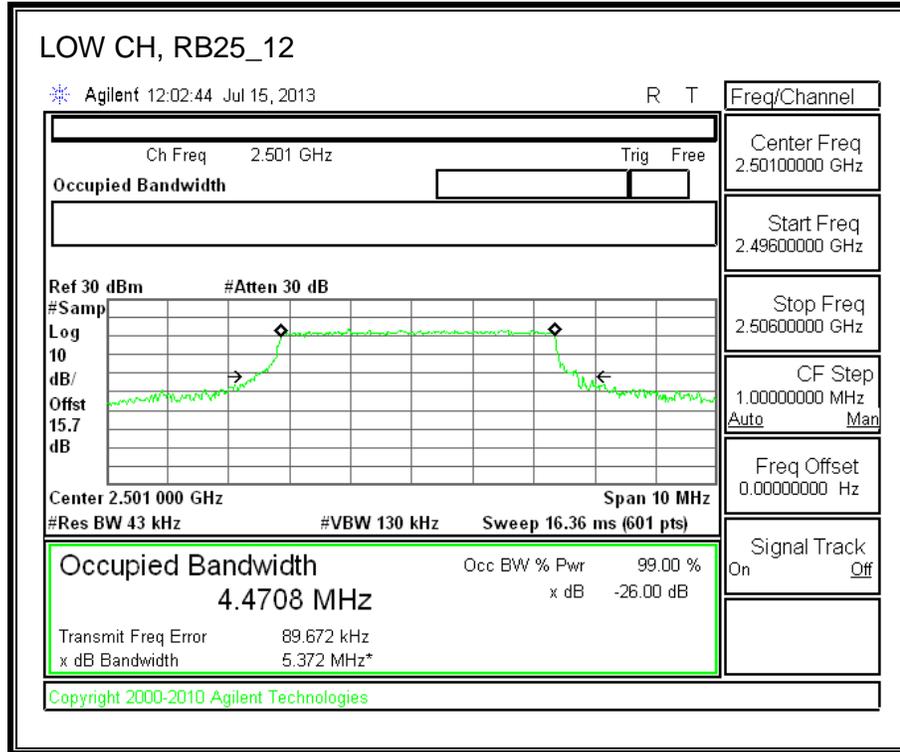


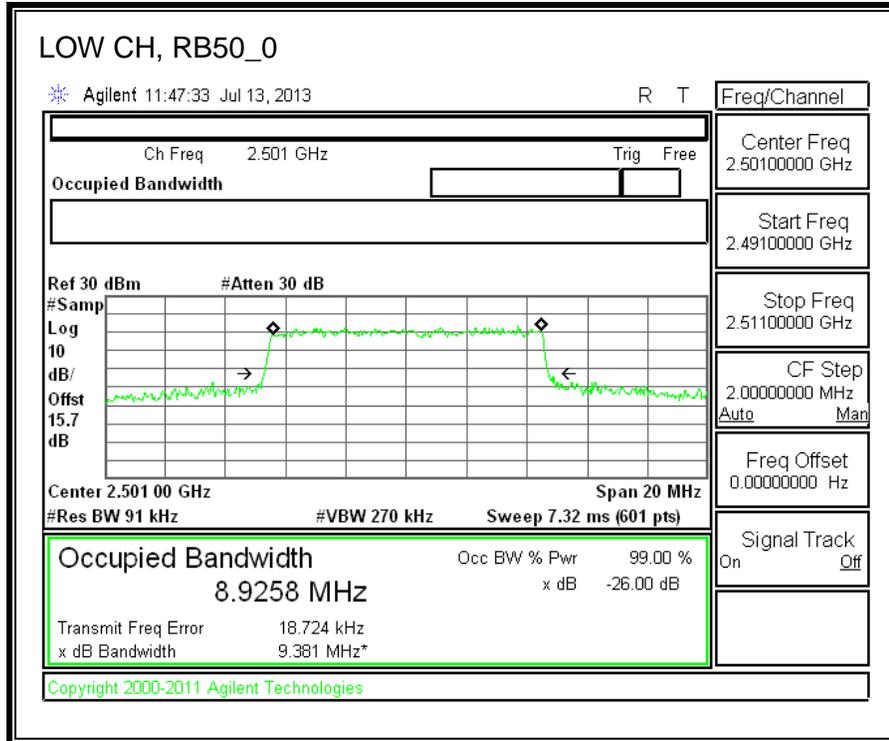


## 10.4. LTE Band 41

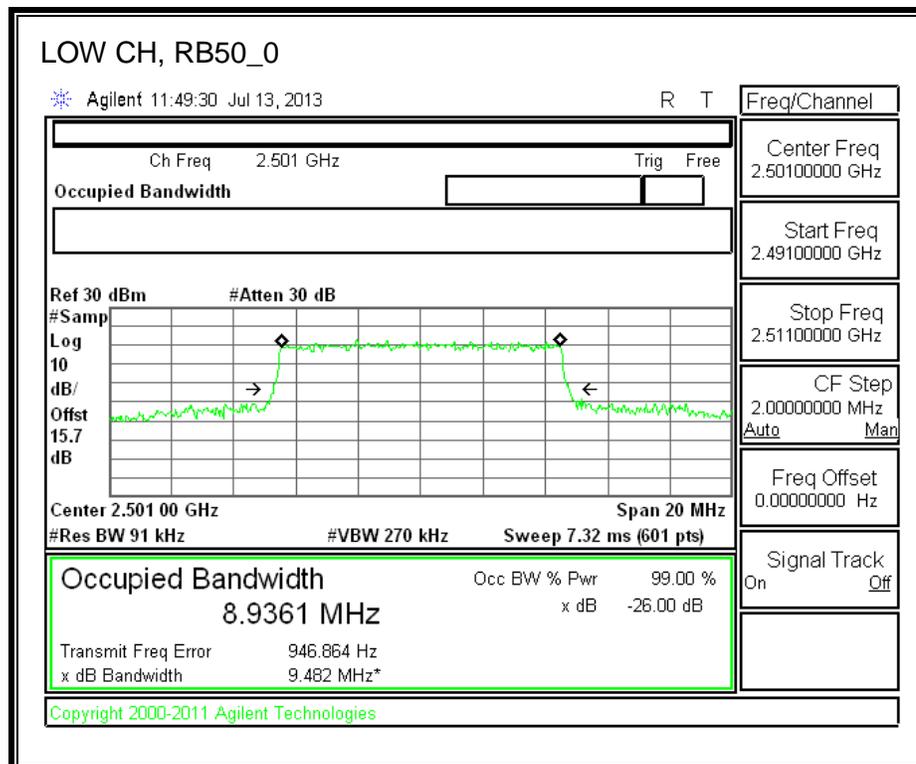
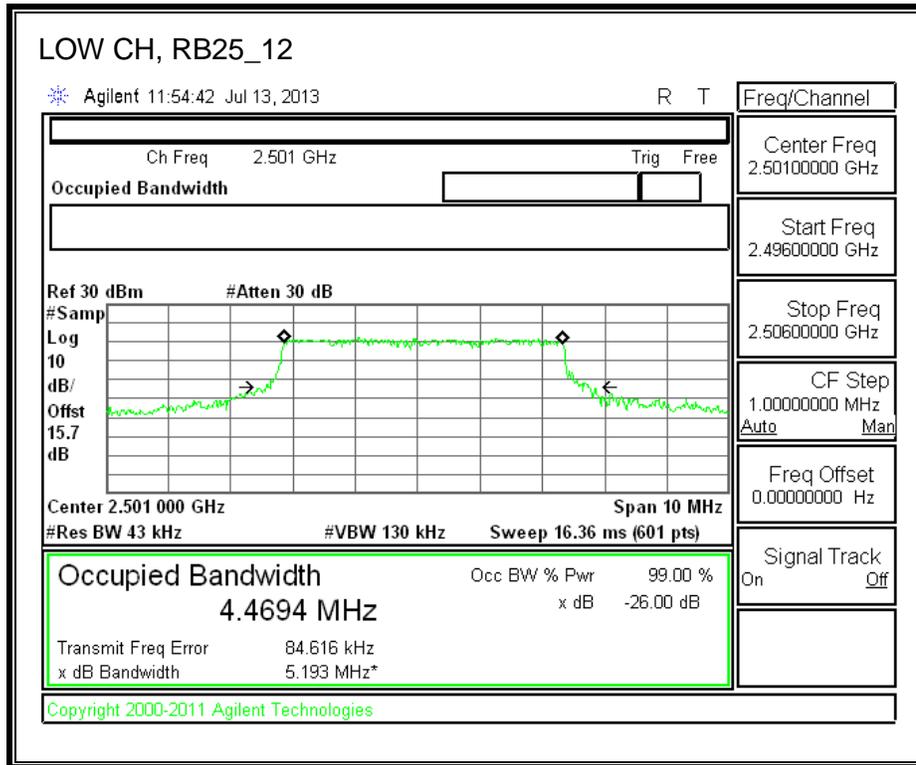
### 10.4.1. LTE BAND 41-10MHz BANDWIDTH

#### LOW-QPSK

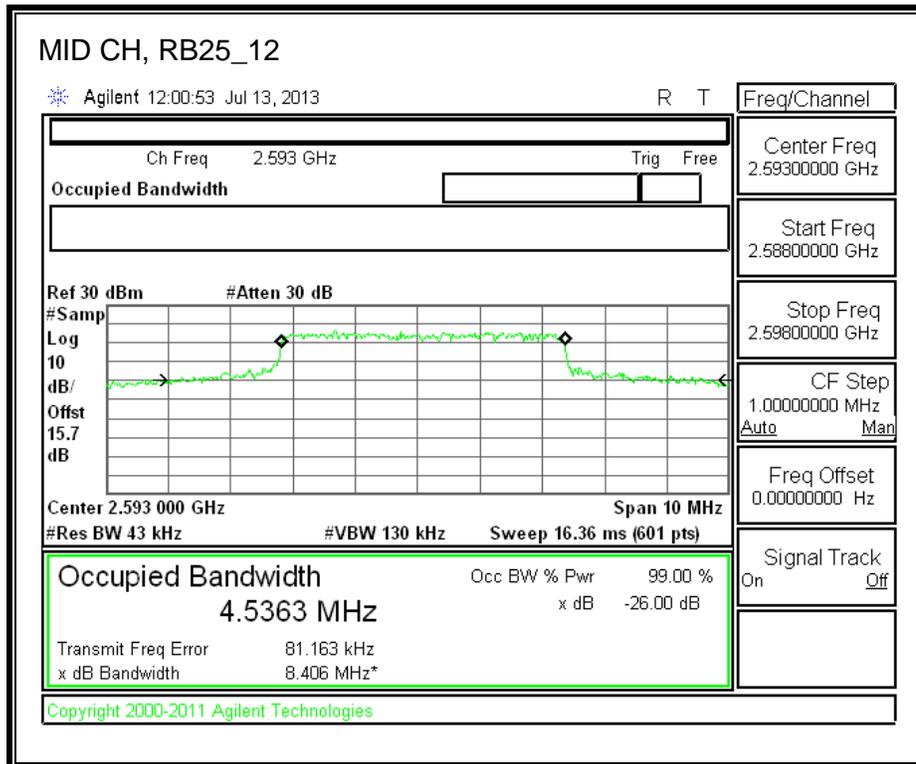


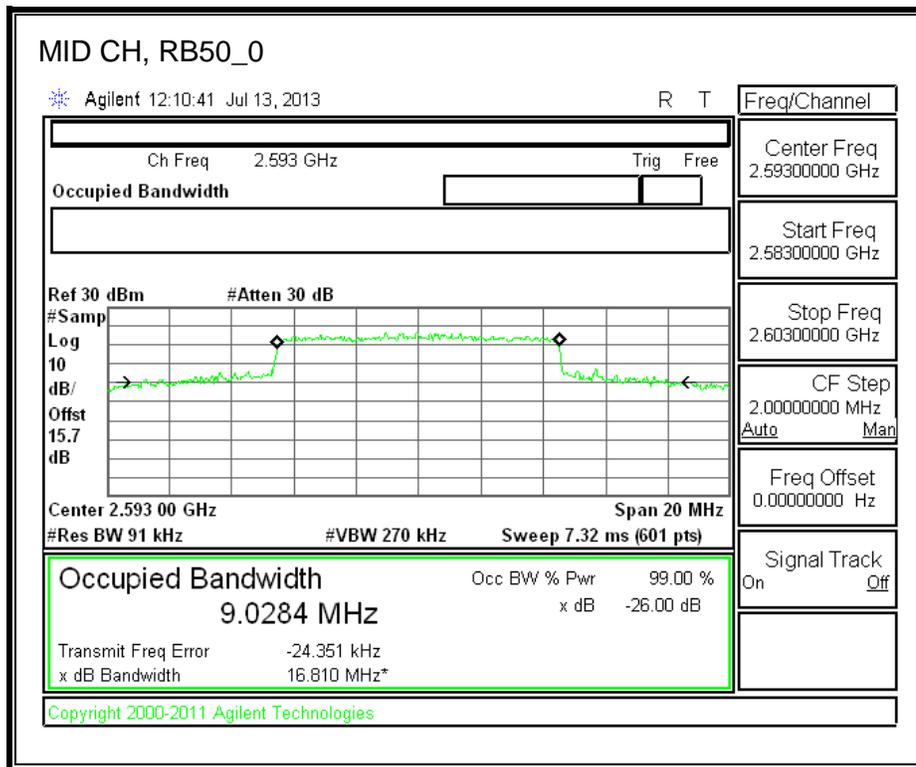


**LOW-16QAM**

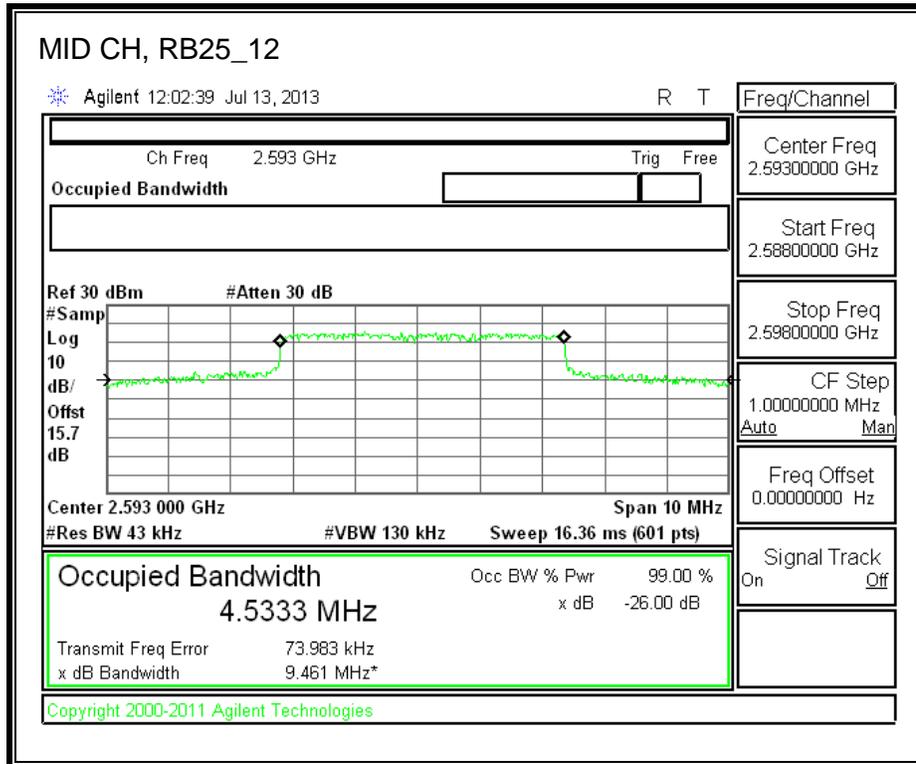


**MID-QPSK**



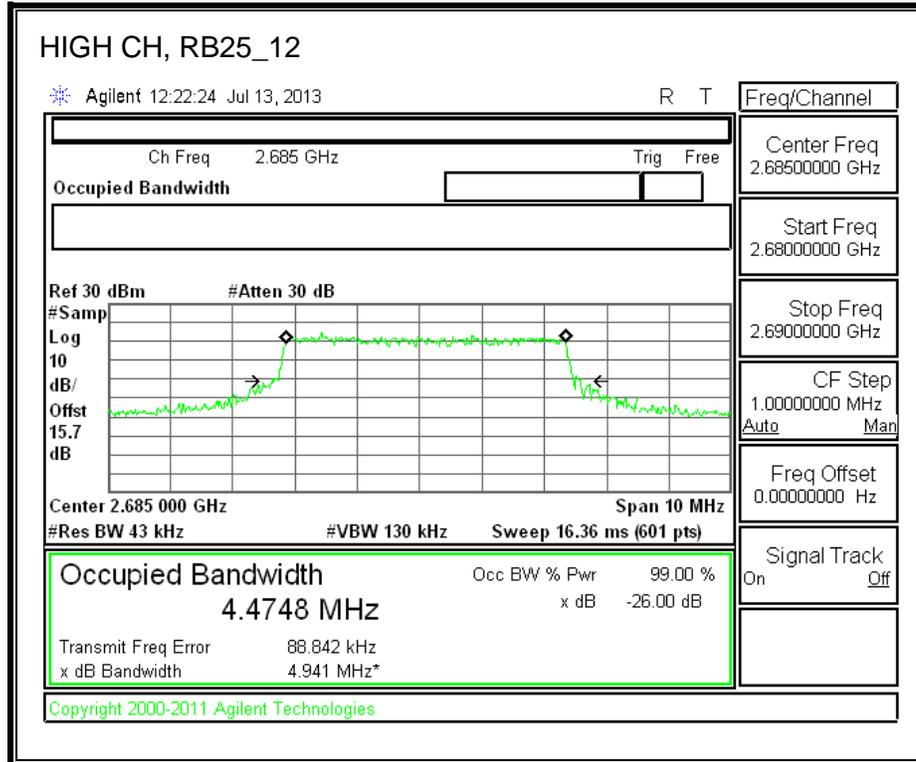


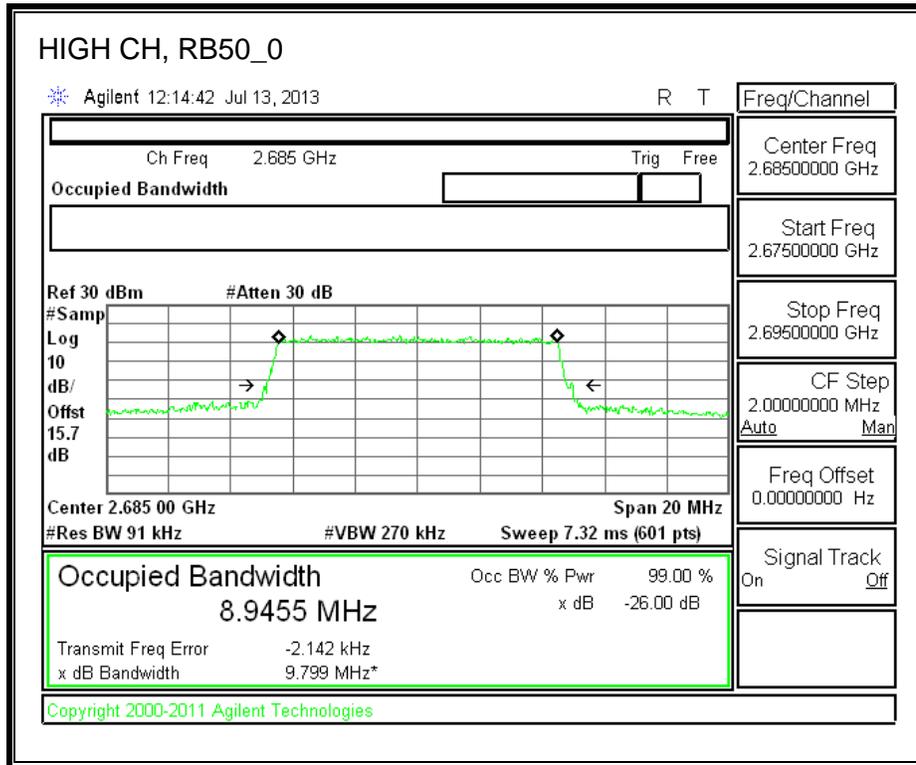
**MID-16QAM**



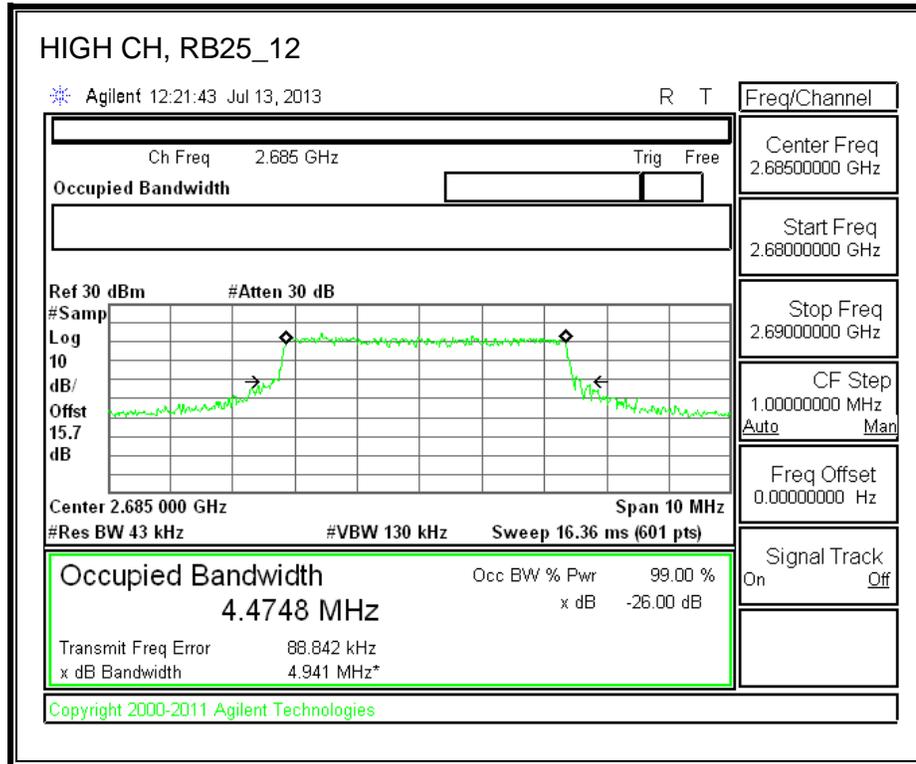


**HIGH-QPSK**





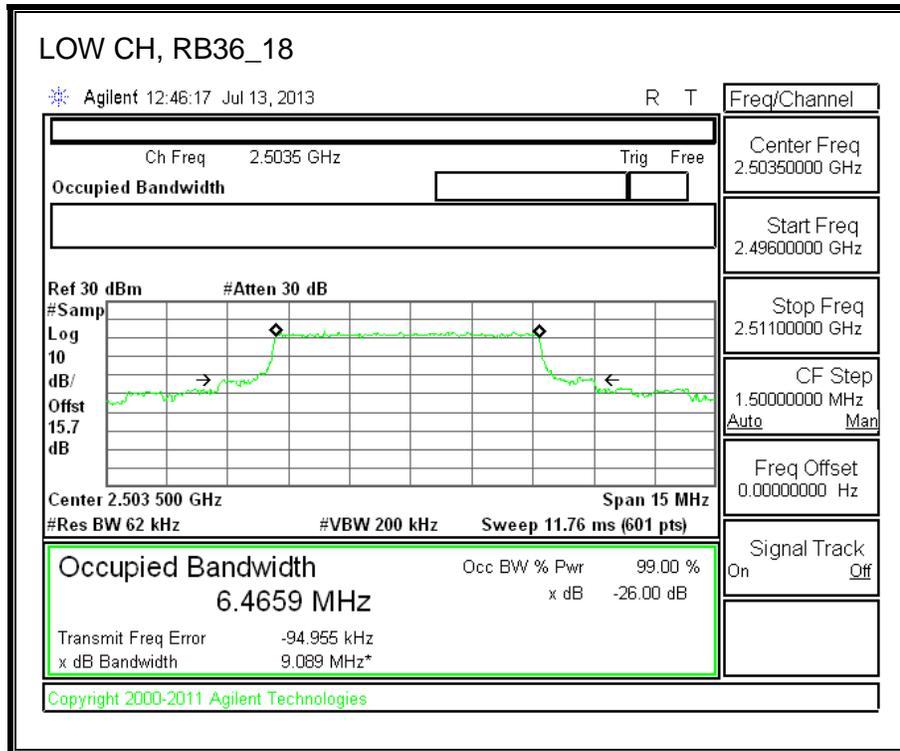
**HIGH-16QAM**

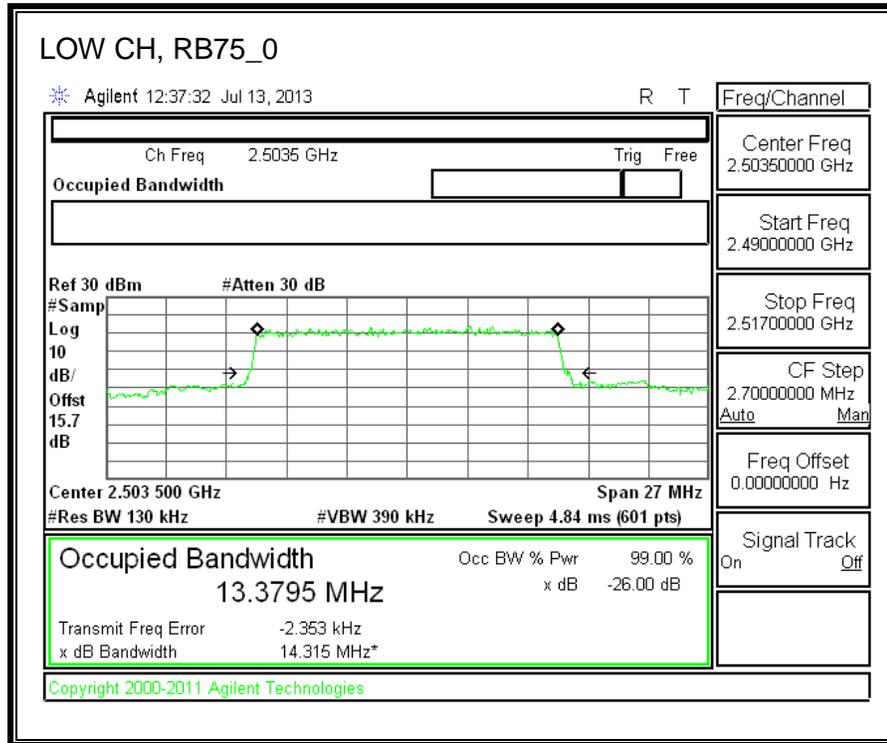




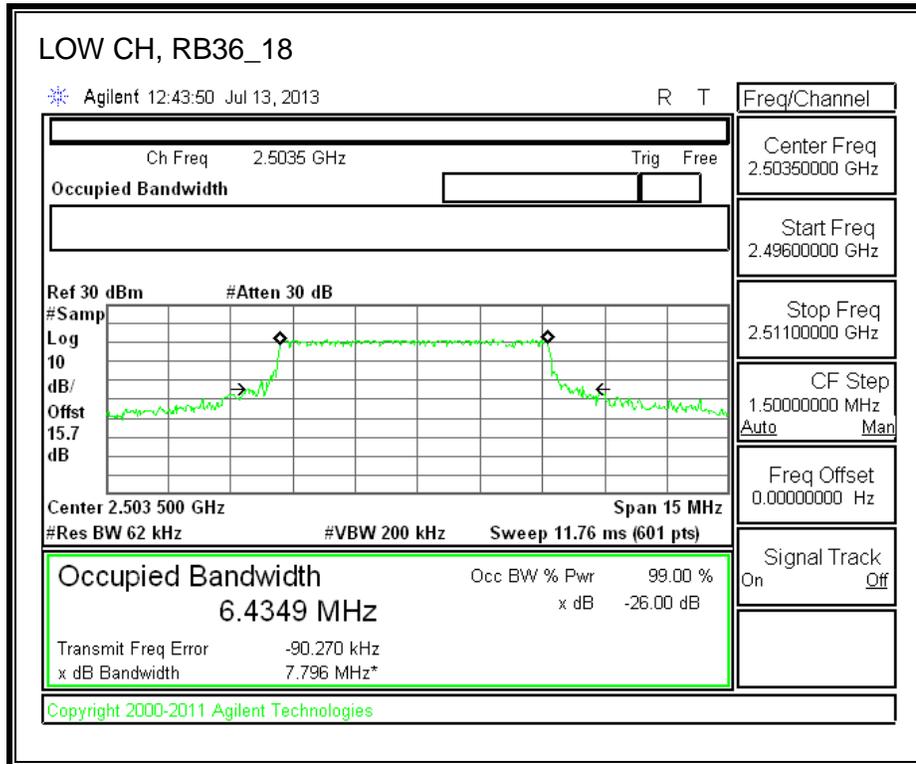
### 10.4.2. LTE BAND 41-15MHz BANDWIDTH

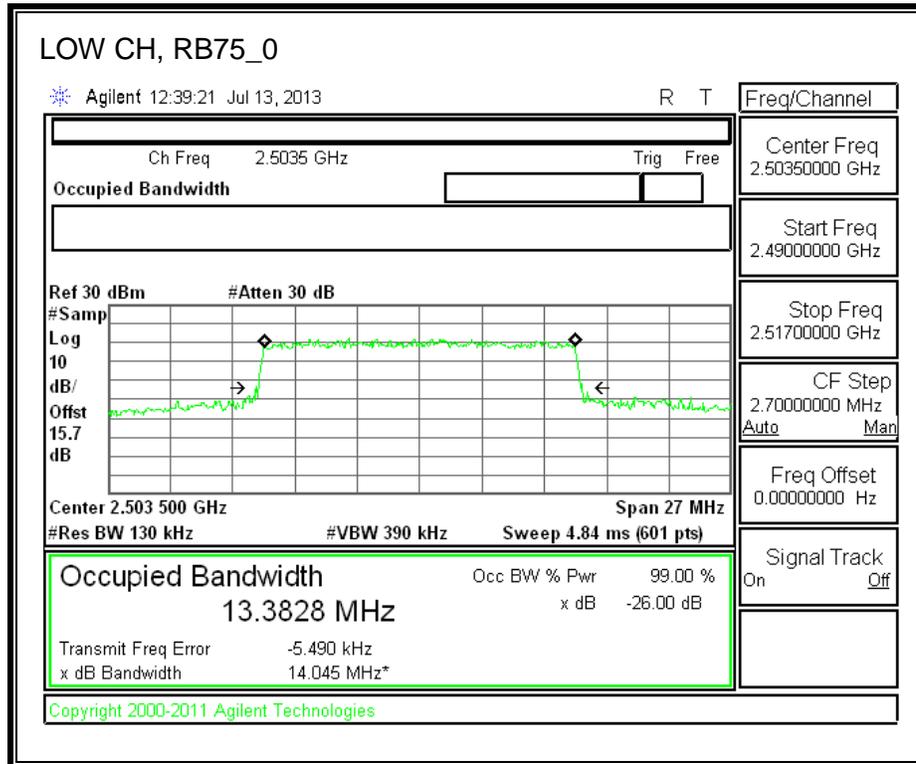
#### LOW-QPSK



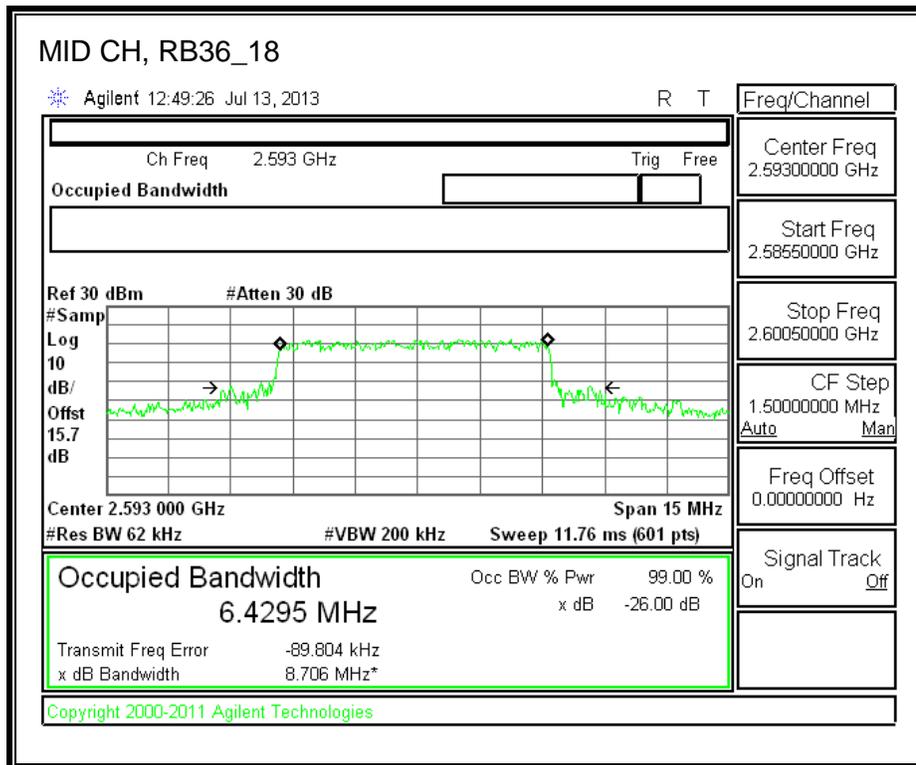


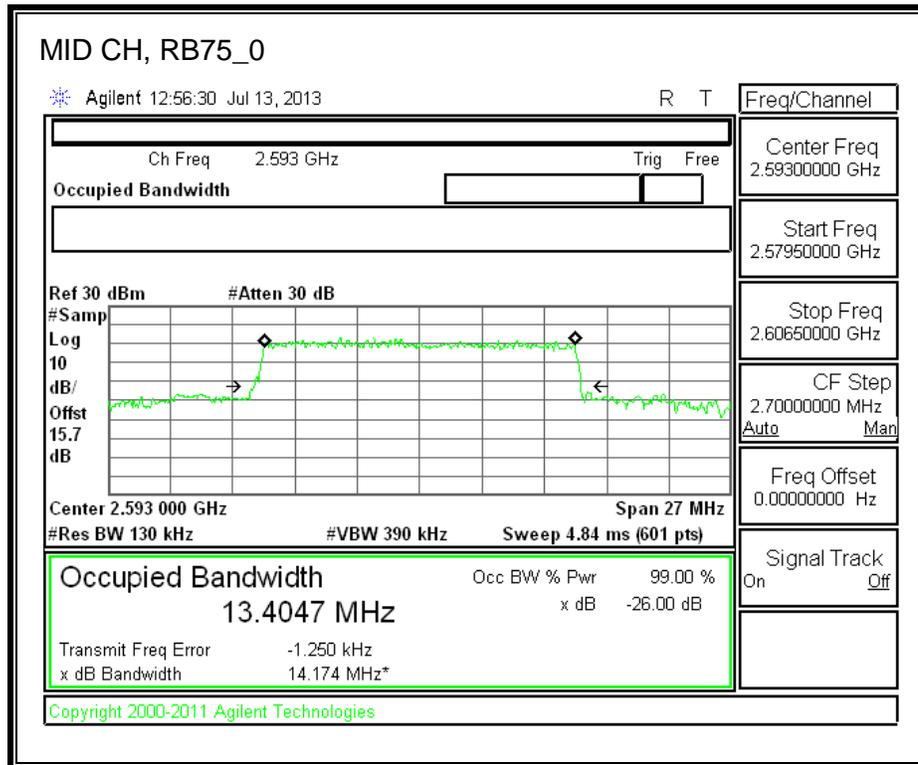
**LOW-16QAM**



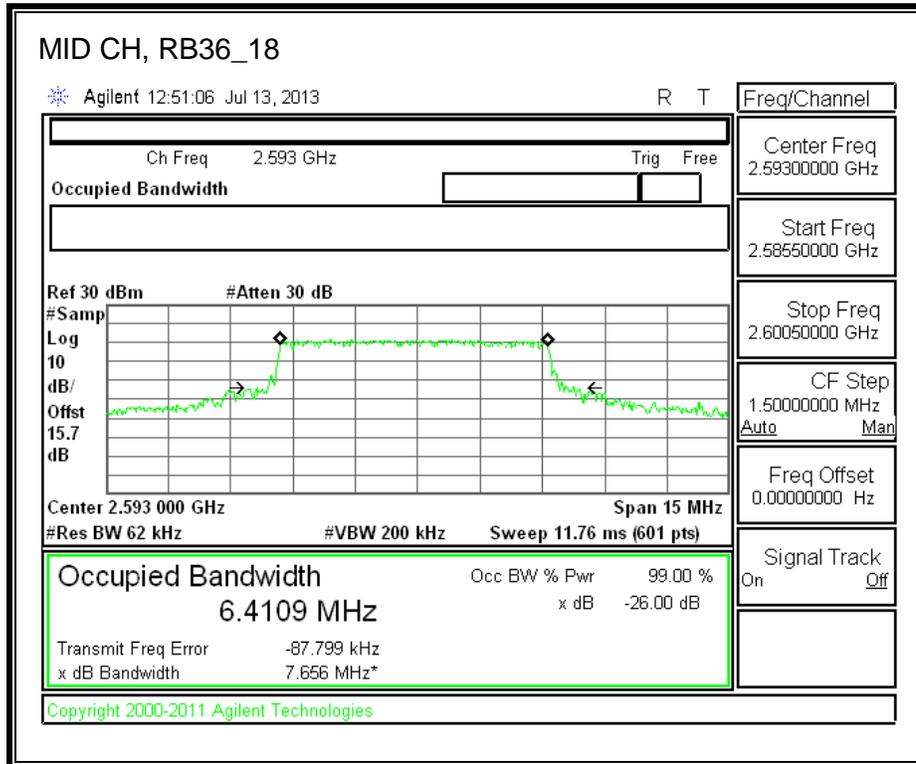


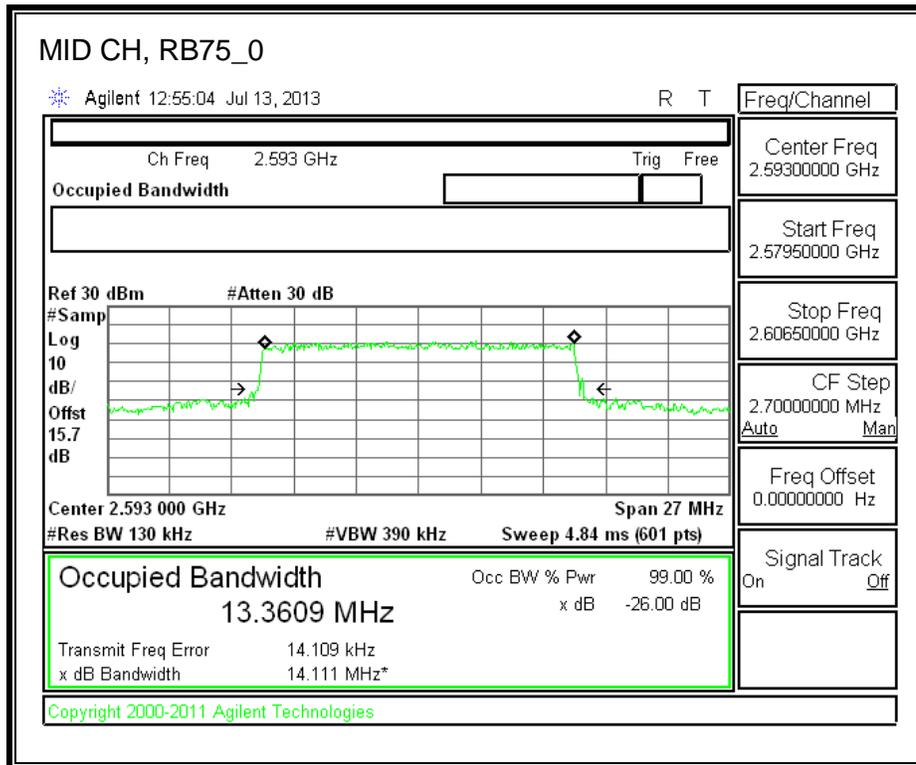
**MID-QPSK**



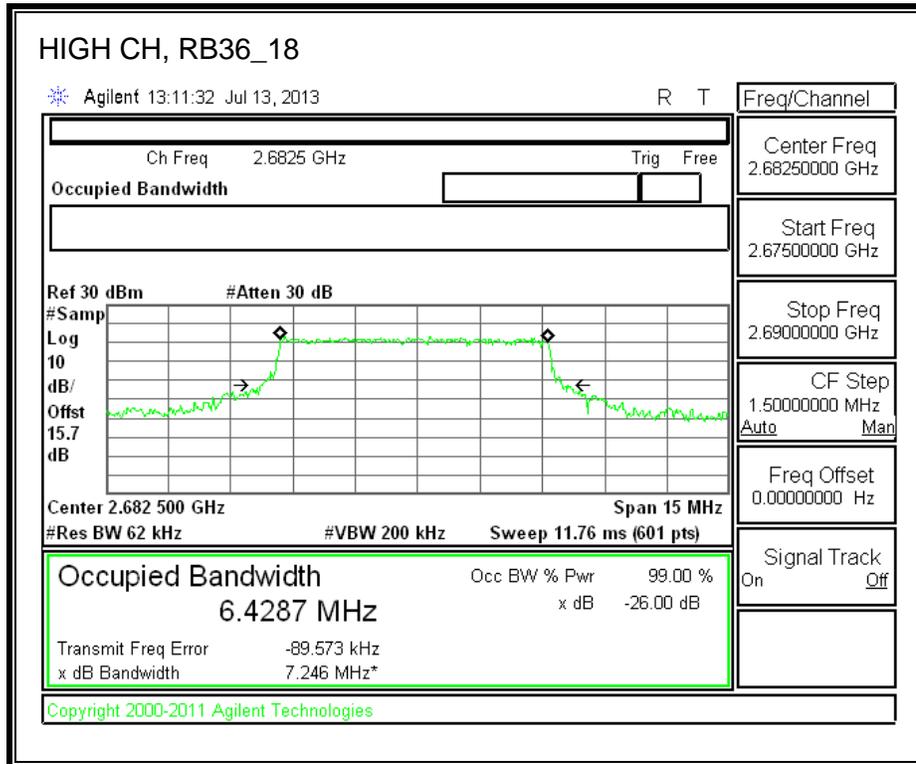


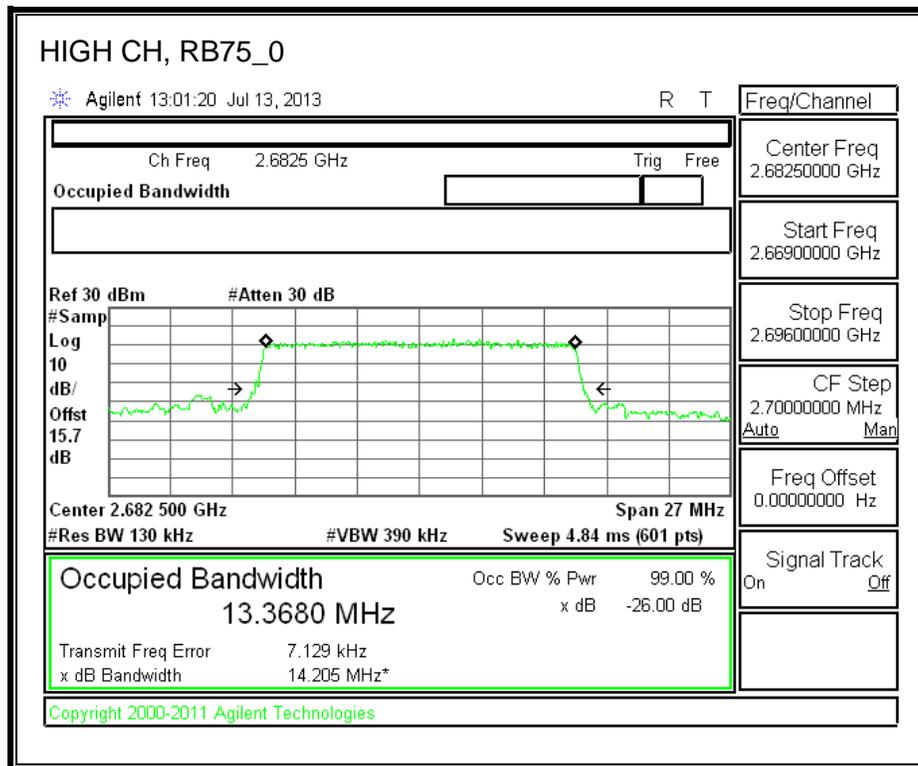
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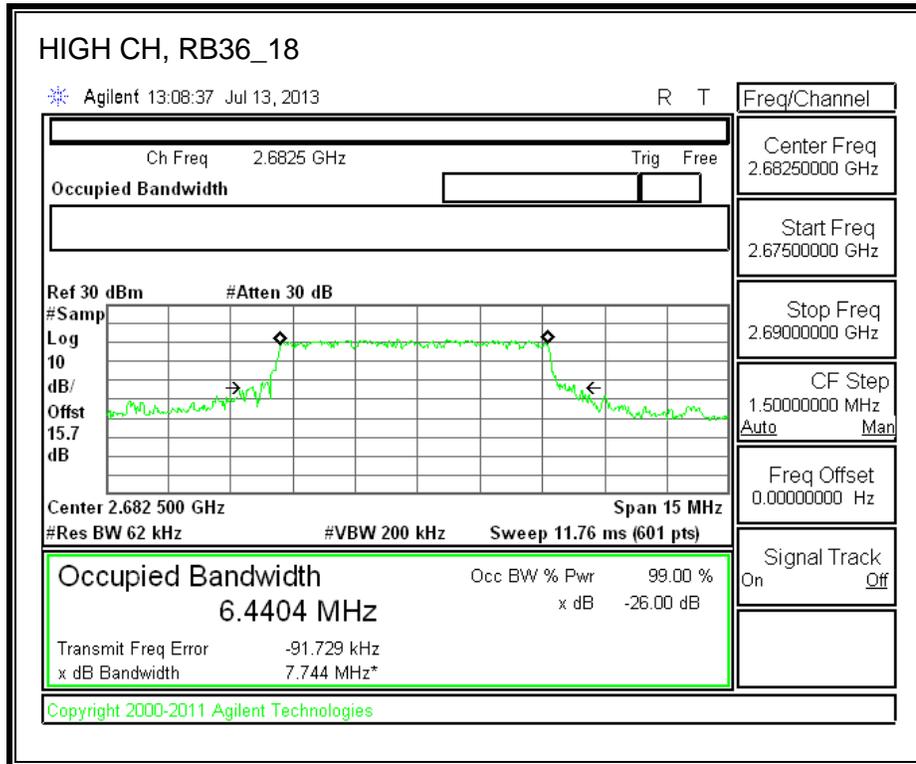


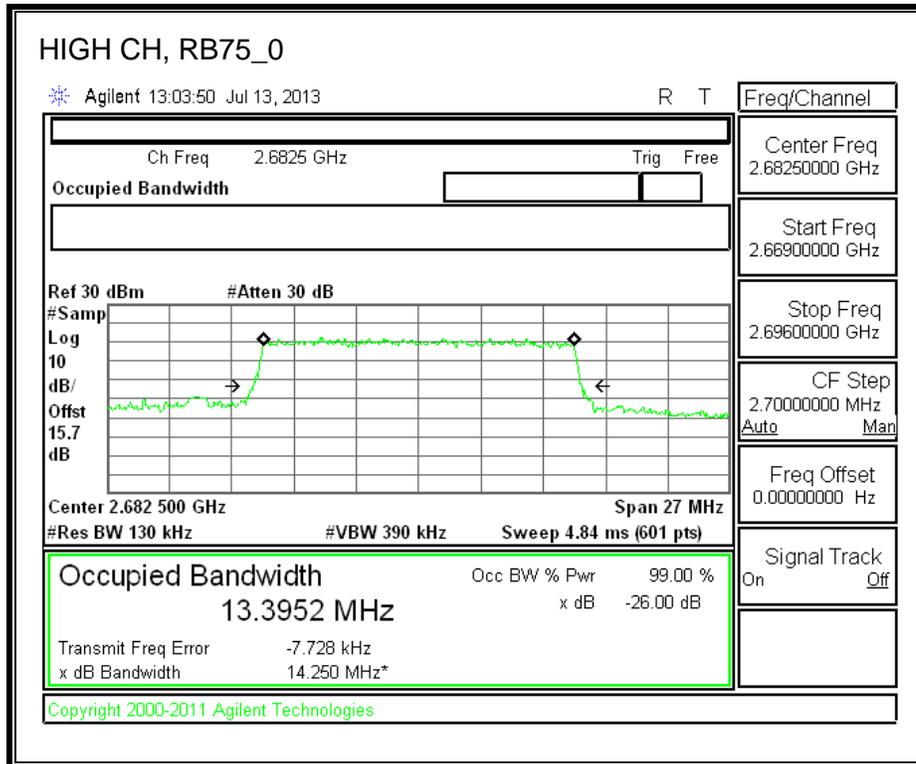
**HIGH-QPSK**





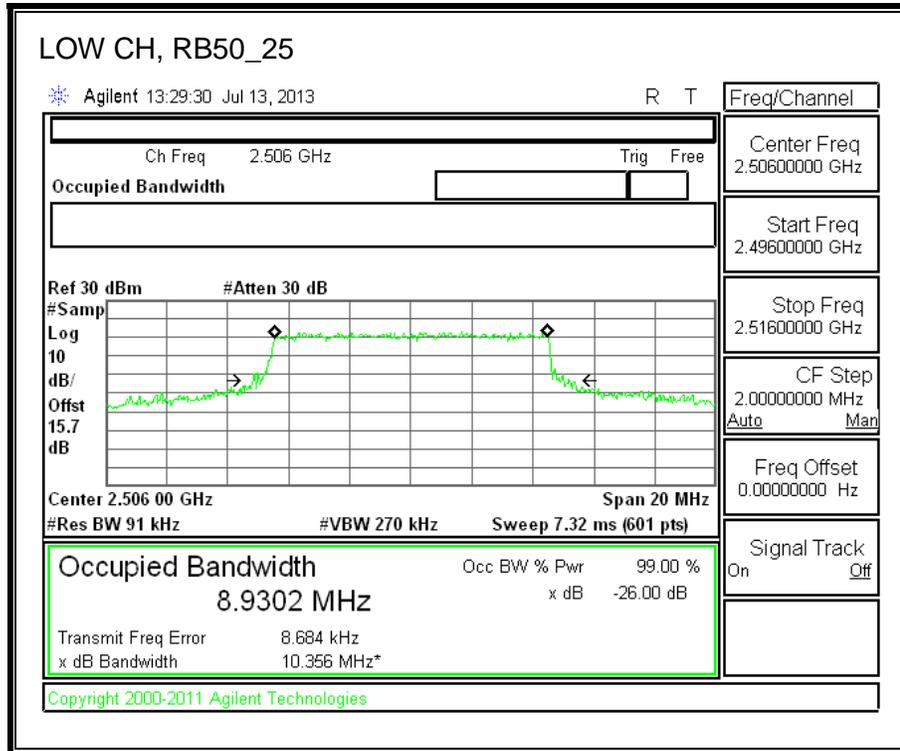
**HIGH-16QAM**

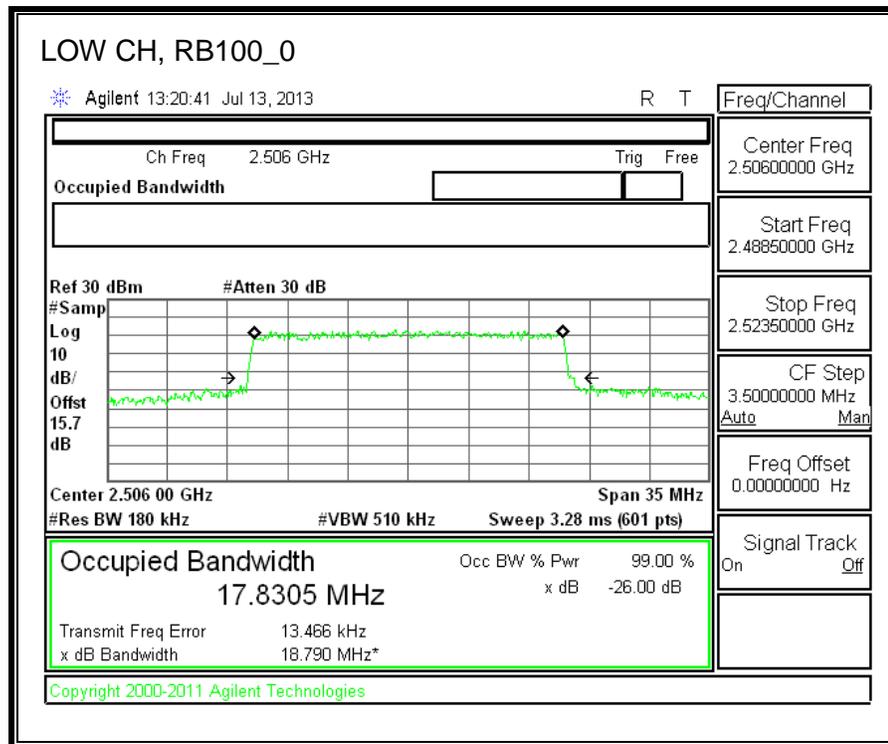




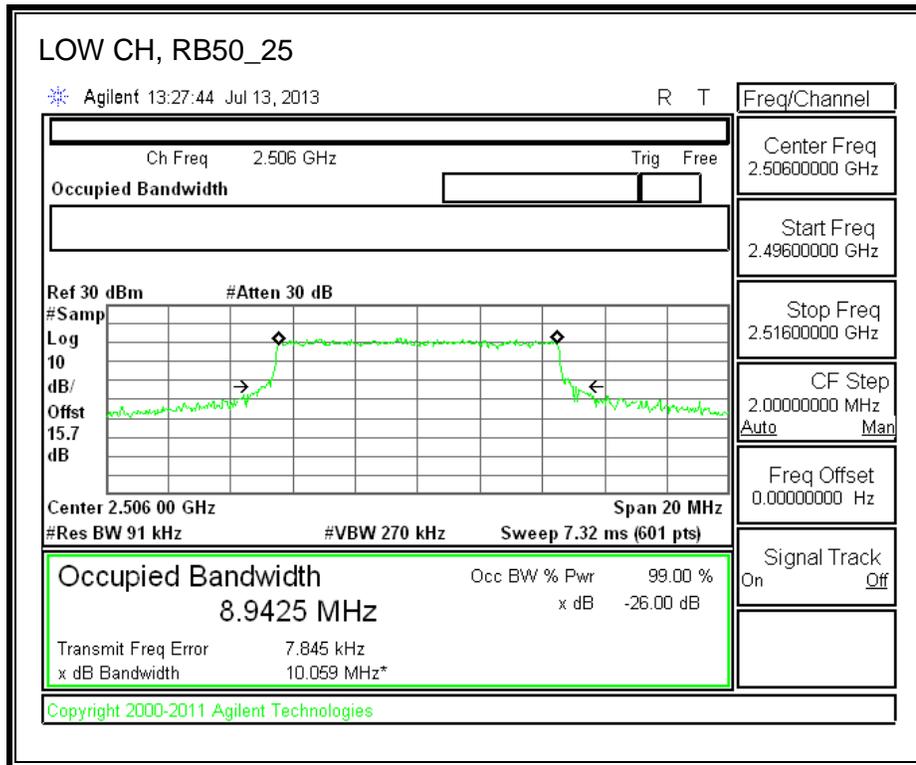
### 10.4.3. LTE BAND 41-20MHz BANDWIDTH

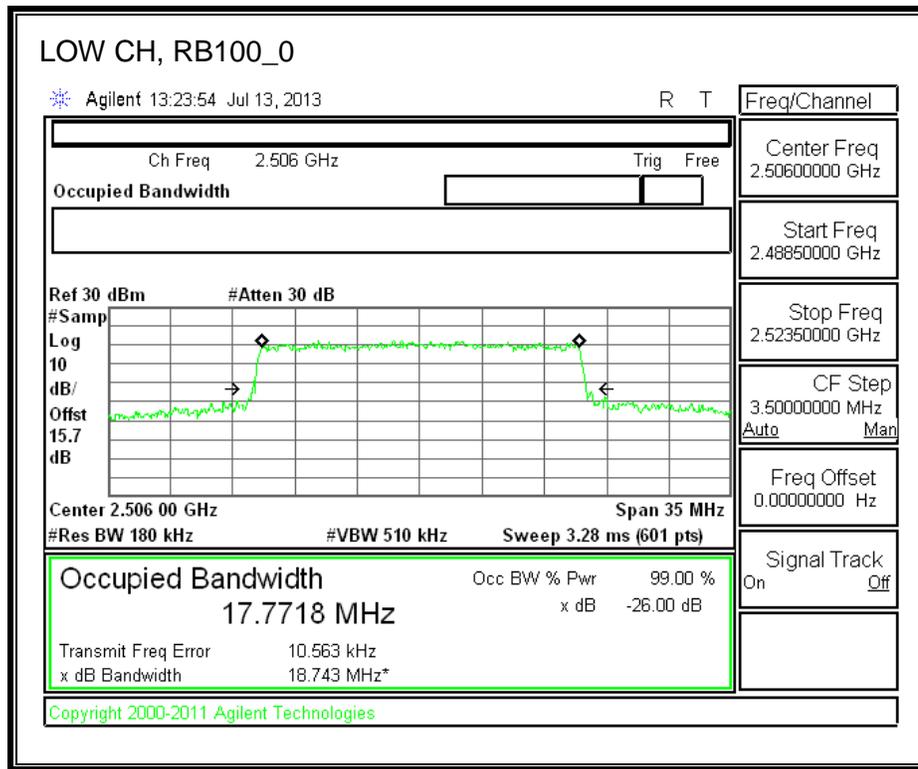
#### LOW-QPSK



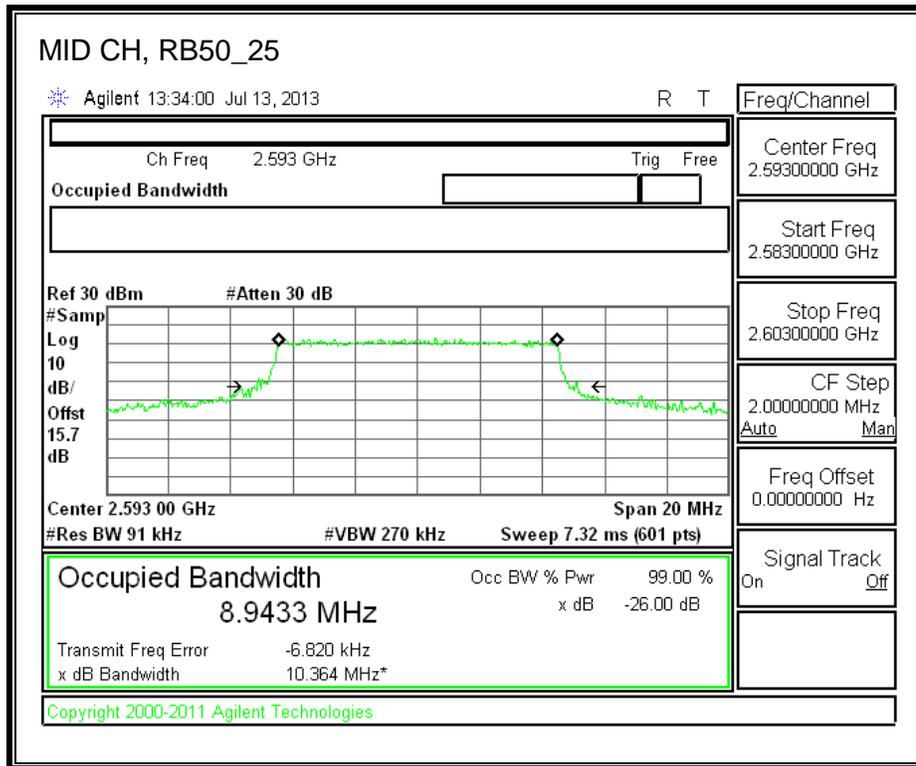


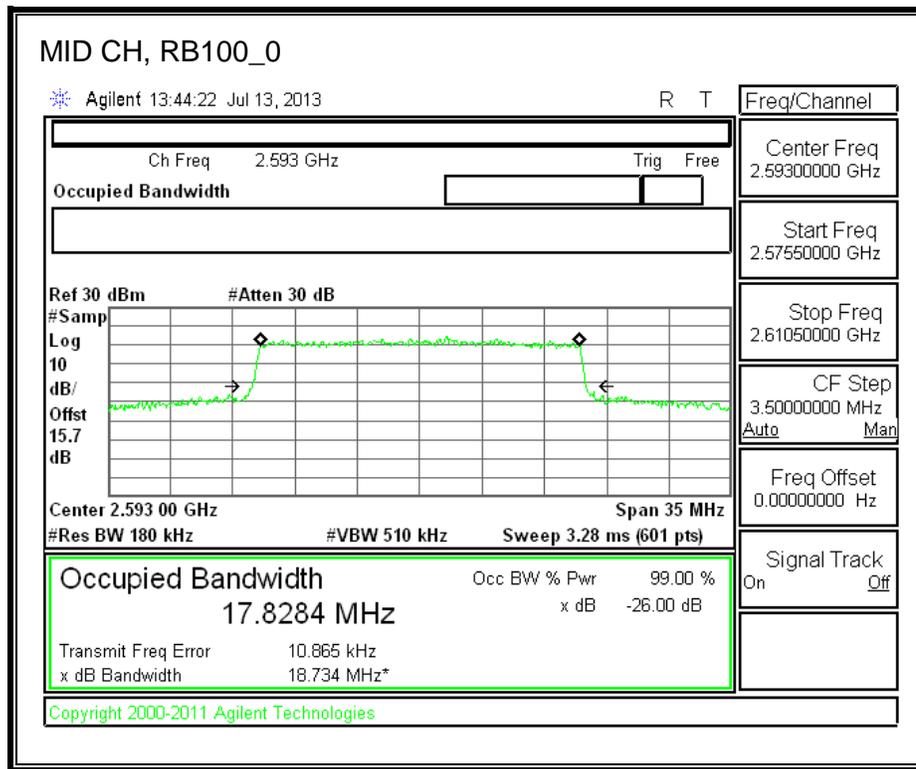
**LOW-16QAM**



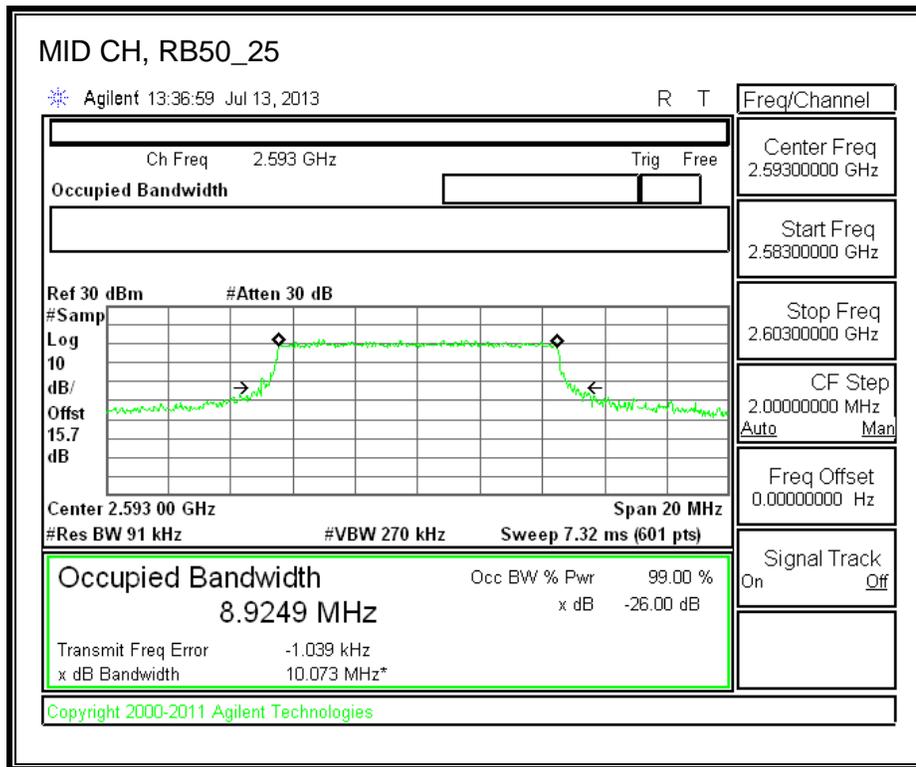


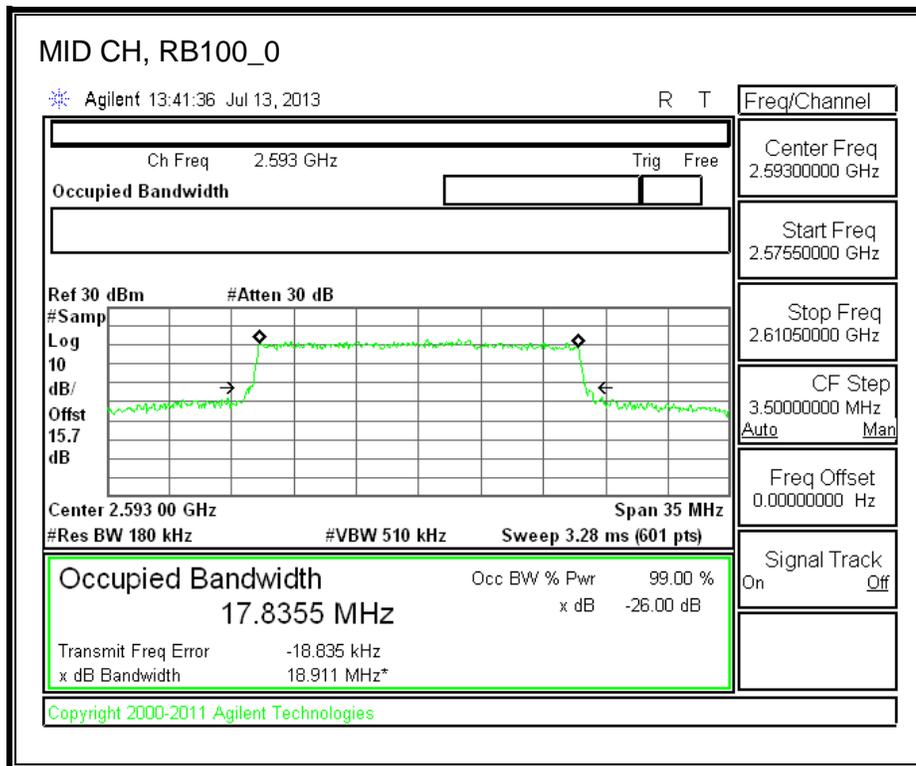
**MID-QPSK**



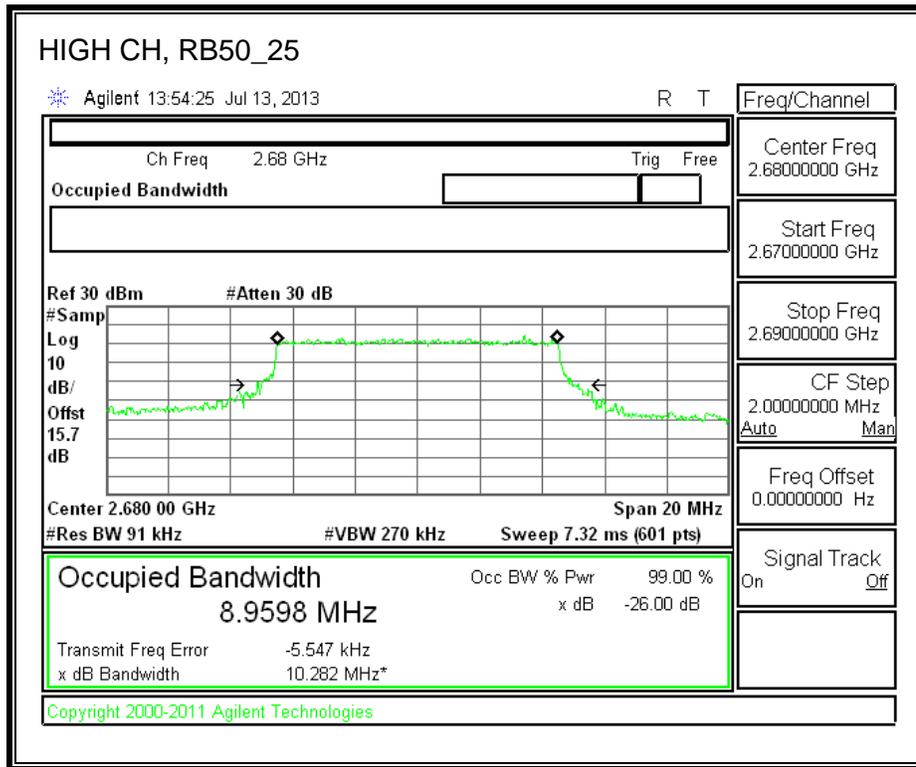


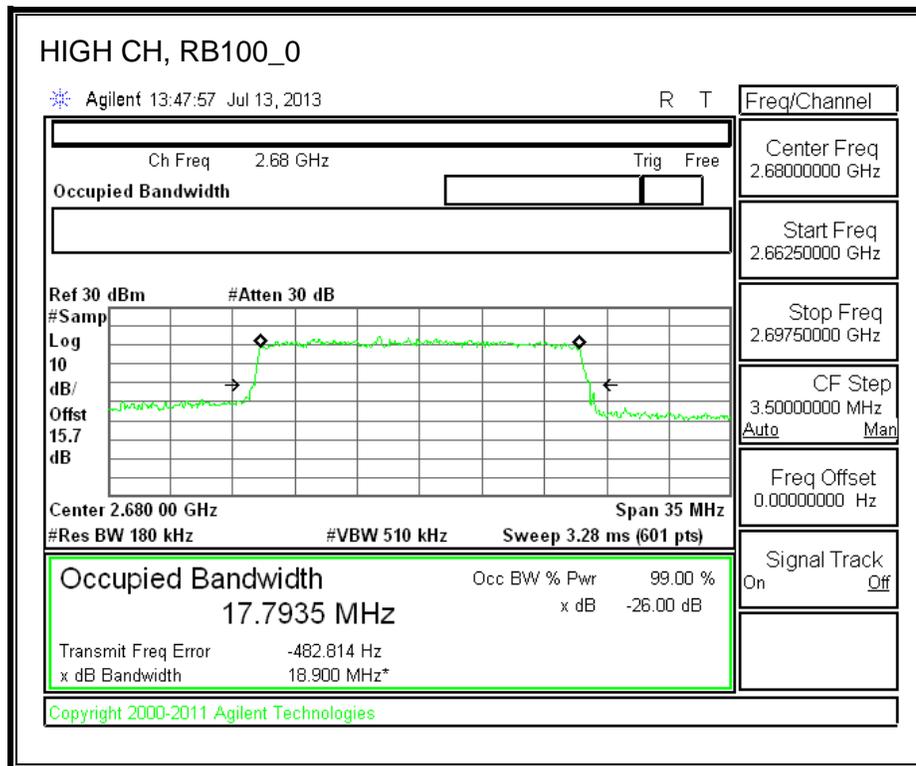
**MID-16QAM**



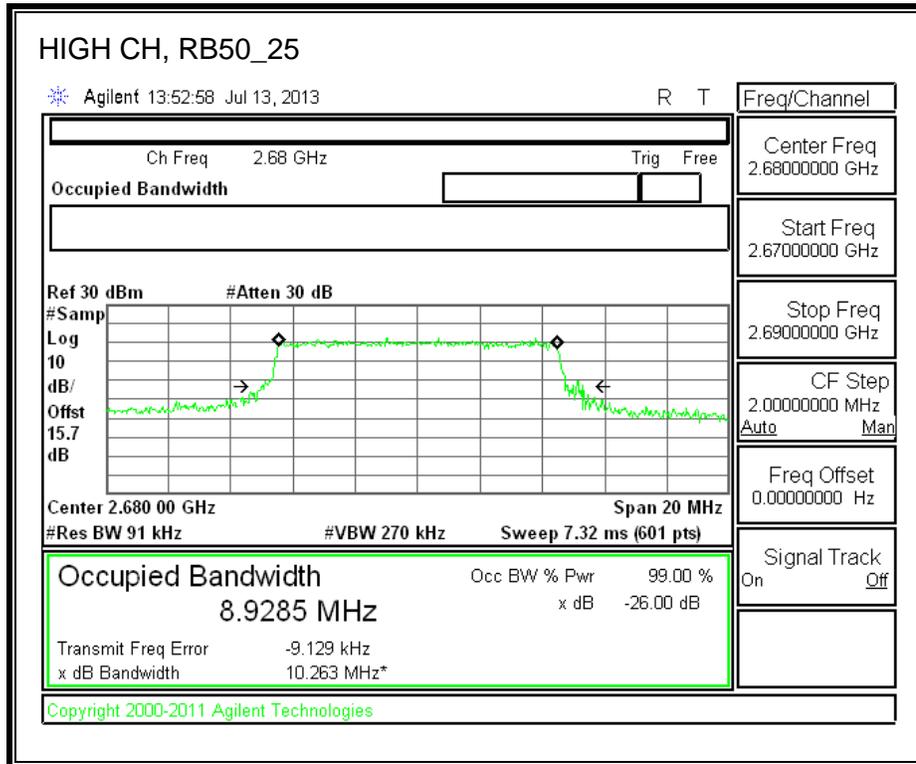


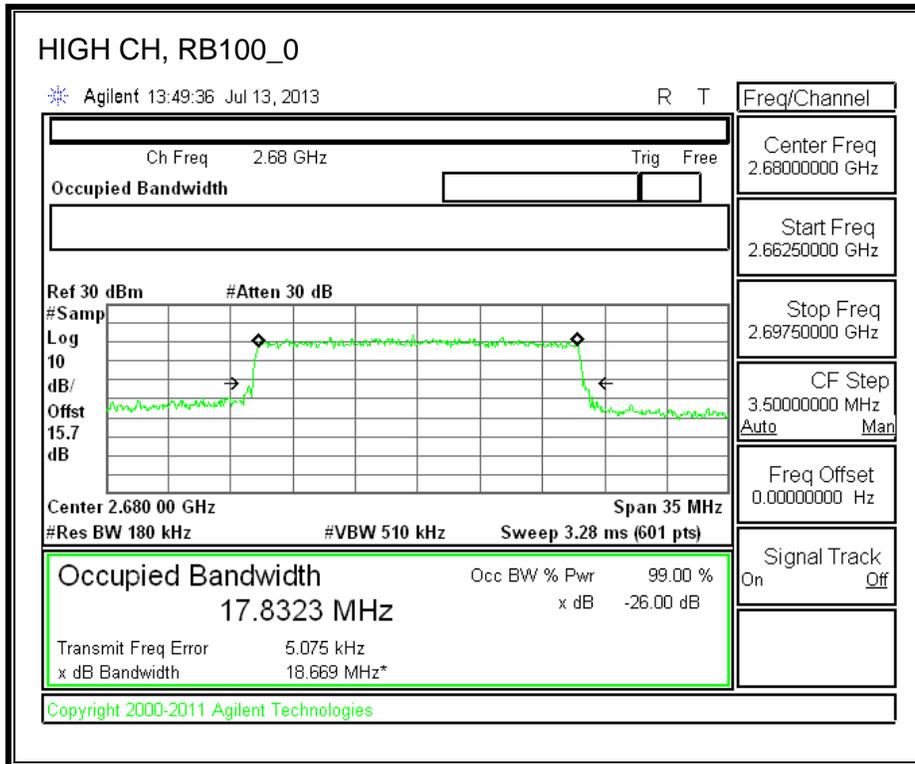
**HIGH-QPSK**





**HIGH-16QAM**





## 11. BAND EDGE

### RULE PART(S)

FCC: §22.359, 24.238

### 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 transmitter output was connected to a Agilent 8960 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

- Set the spectrum analyzer span to include the block edge frequency (824, 848, 1850, 1910MHz)
- Set a marker to point the corresponding band edge frequency in each test case.
- Set display line at -13 dBm
- Set resolution bandwidth to at least 1% of emission bandwidth.

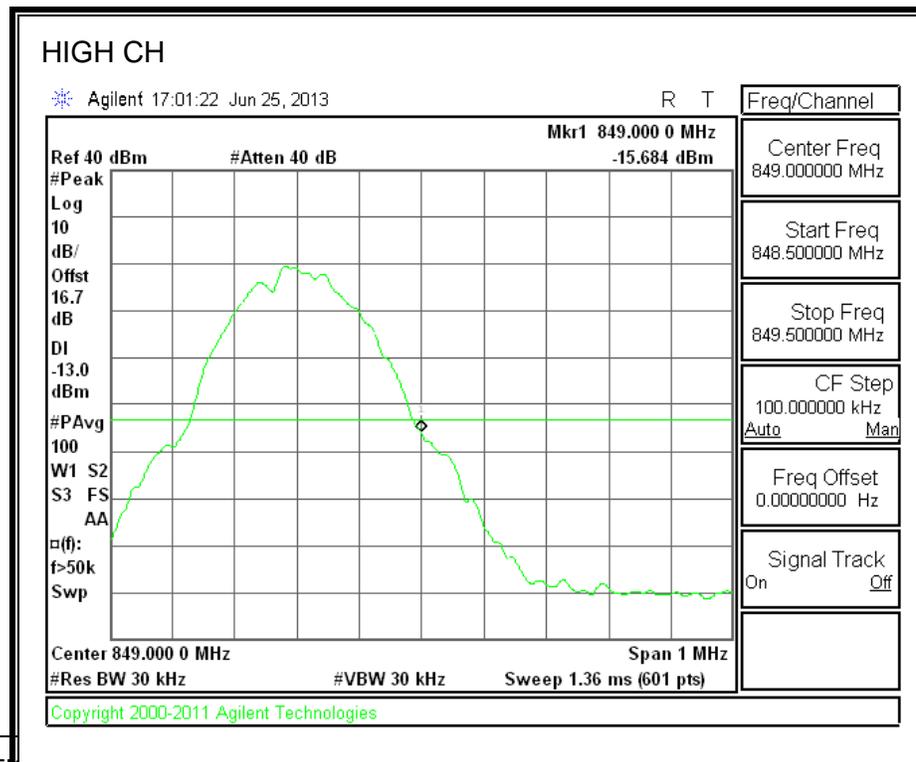
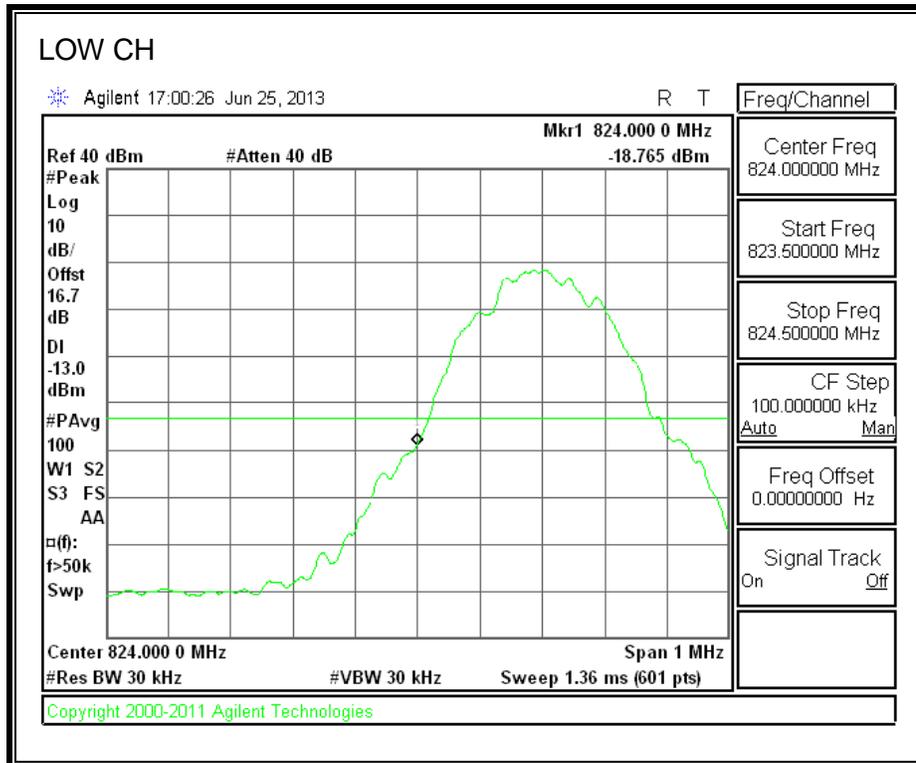
### MODES TESTED

- GPRS
- UMTS REL 99, and HSUPA

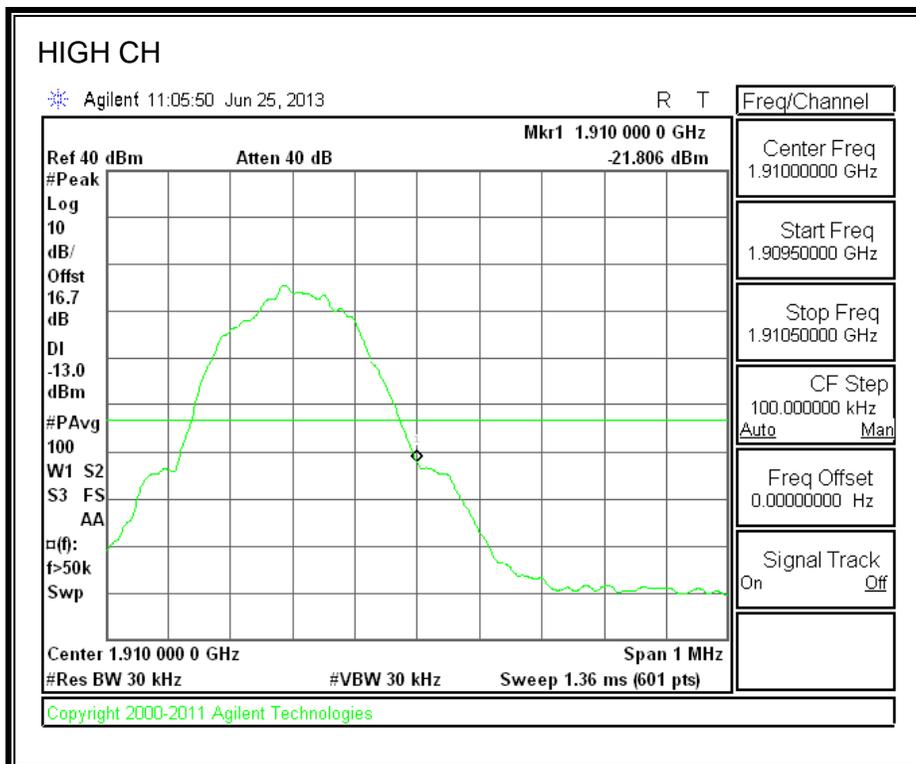
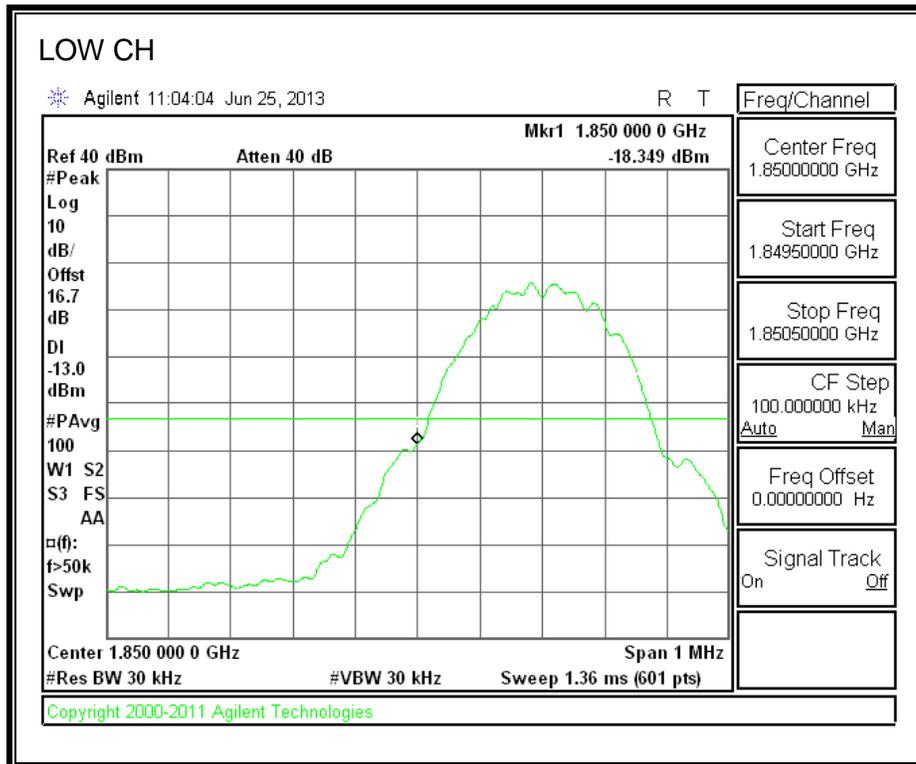
### RESULTS

### 11.1.1. GPRS MODE

#### CELL BAND

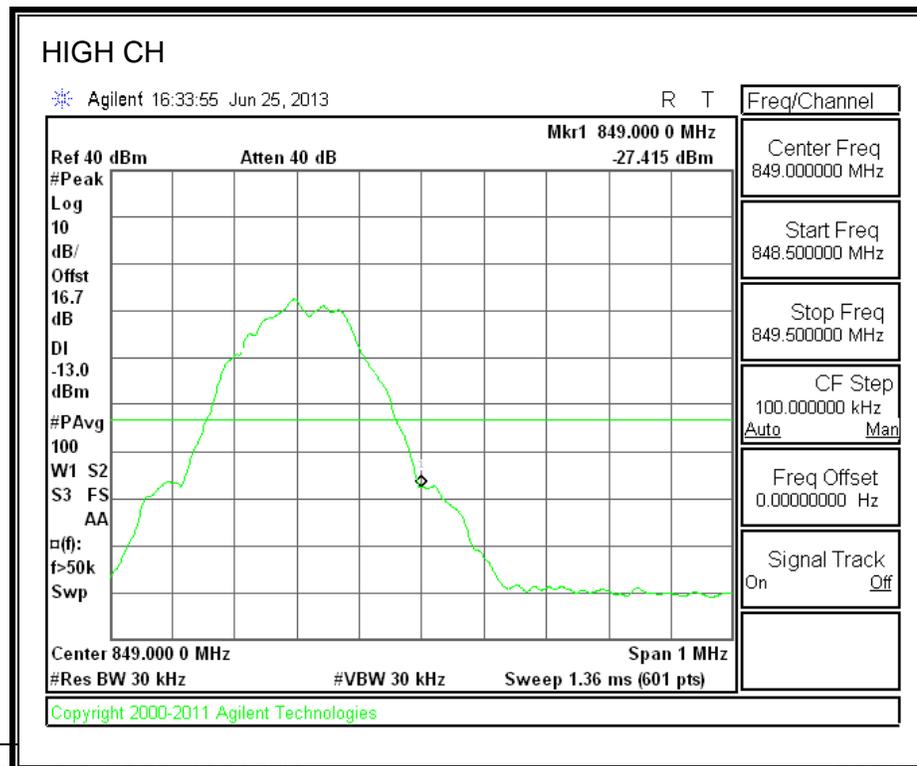
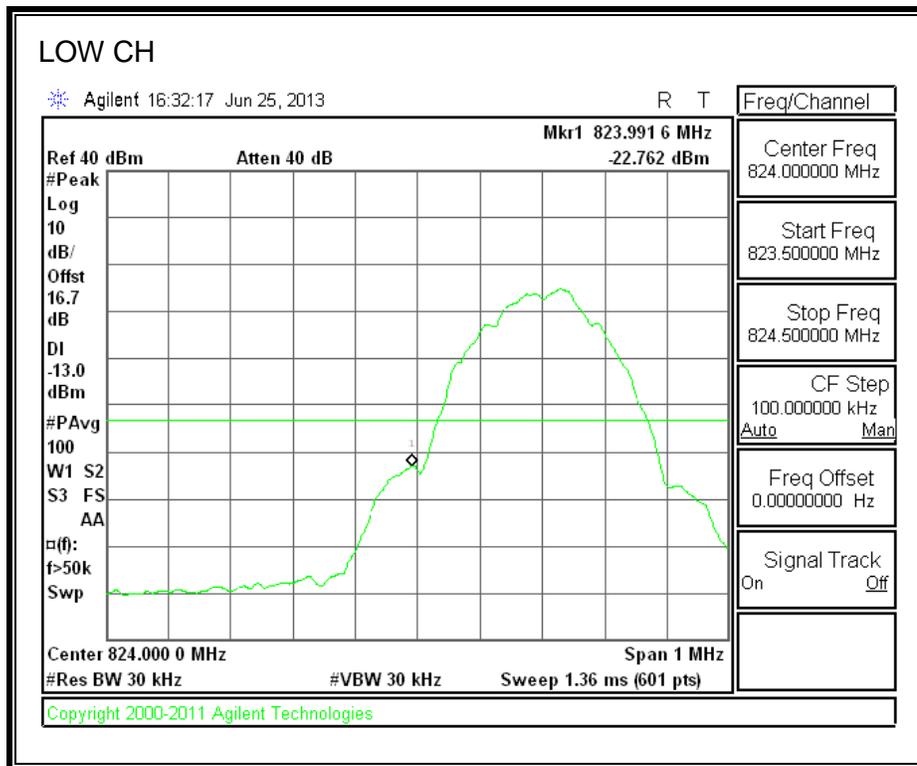


**PCS BAND**

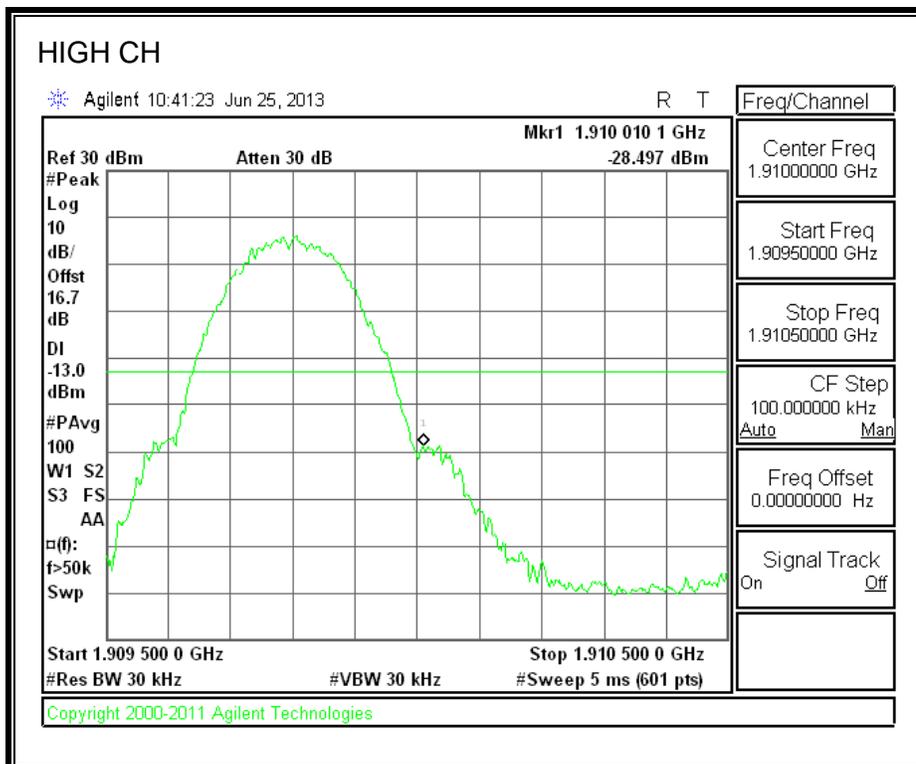
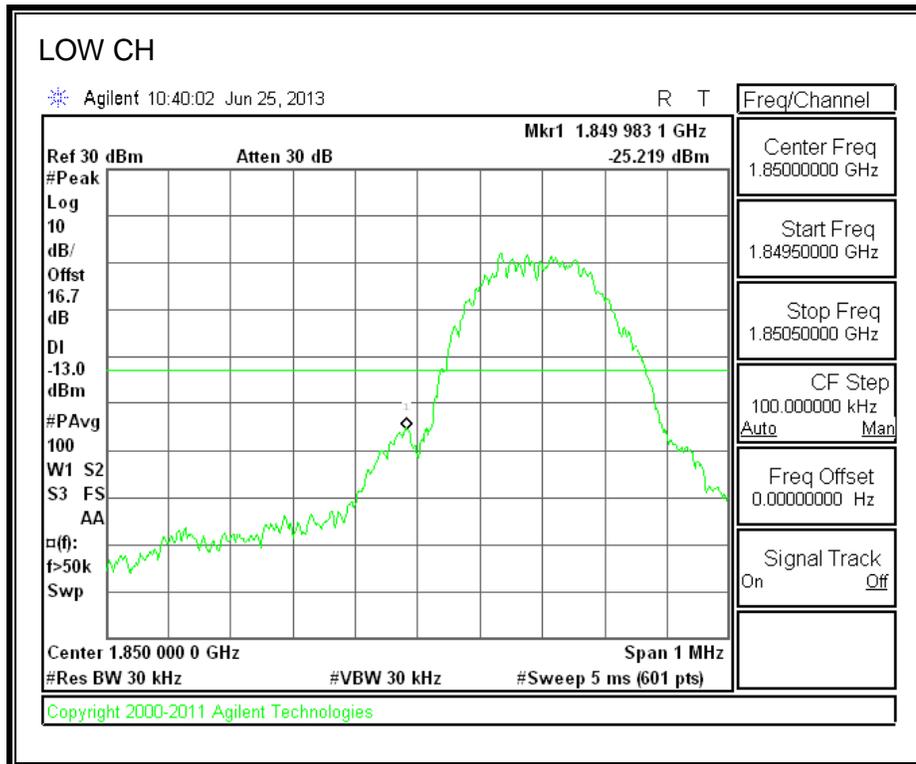


### 11.1.1. EGPRS MODE

#### CELL BAND

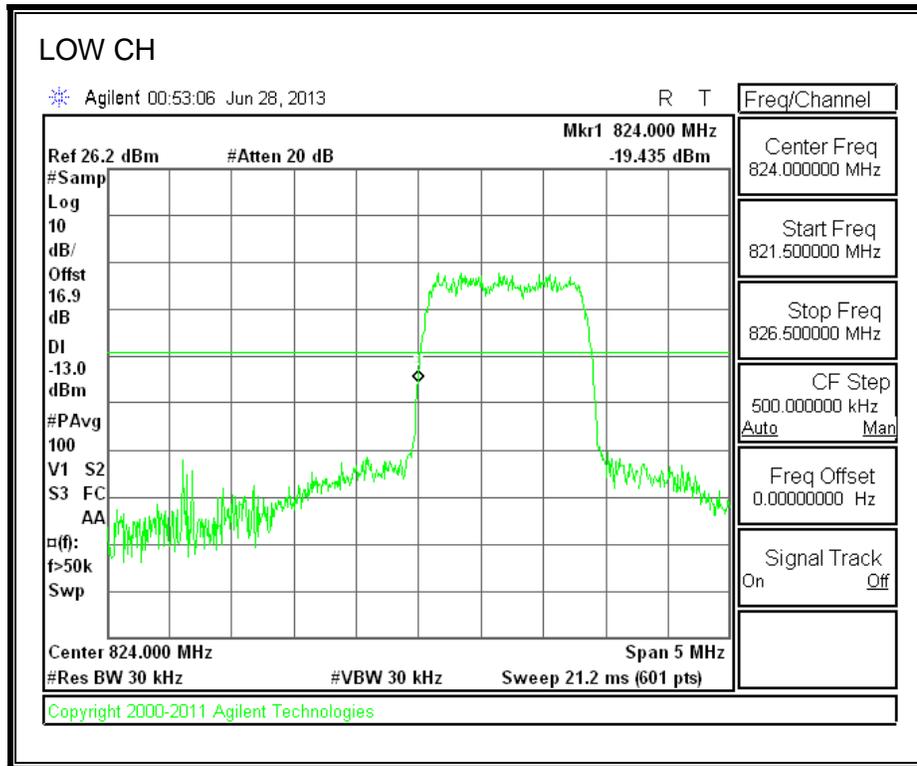


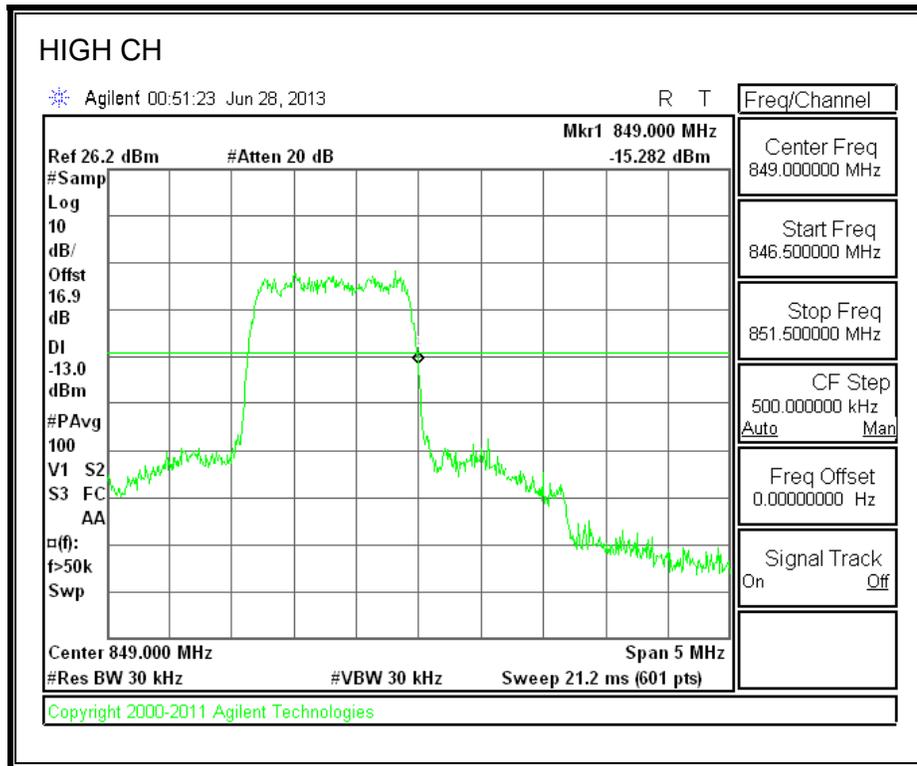
**PCS BAND**



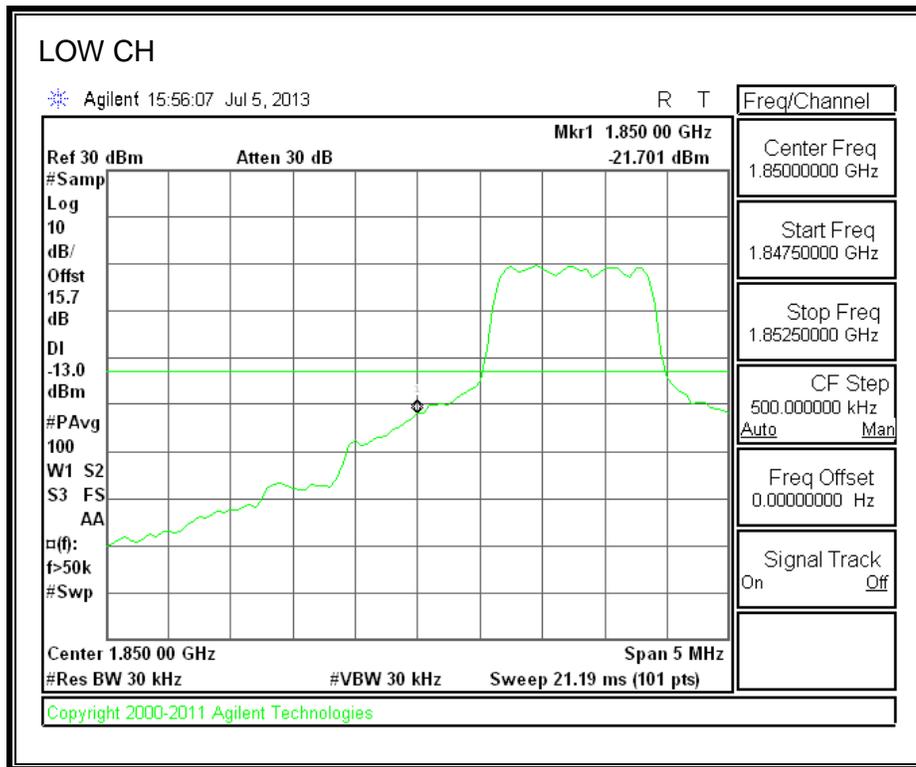
### 11.1.1. CDMA 1xRTT

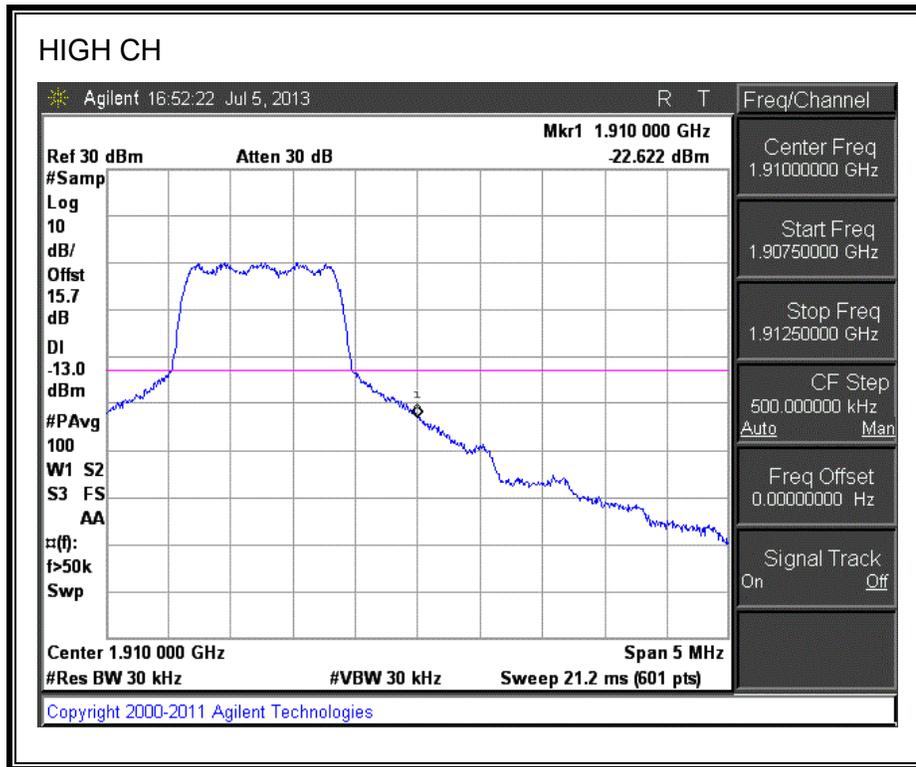
#### BCO BAND



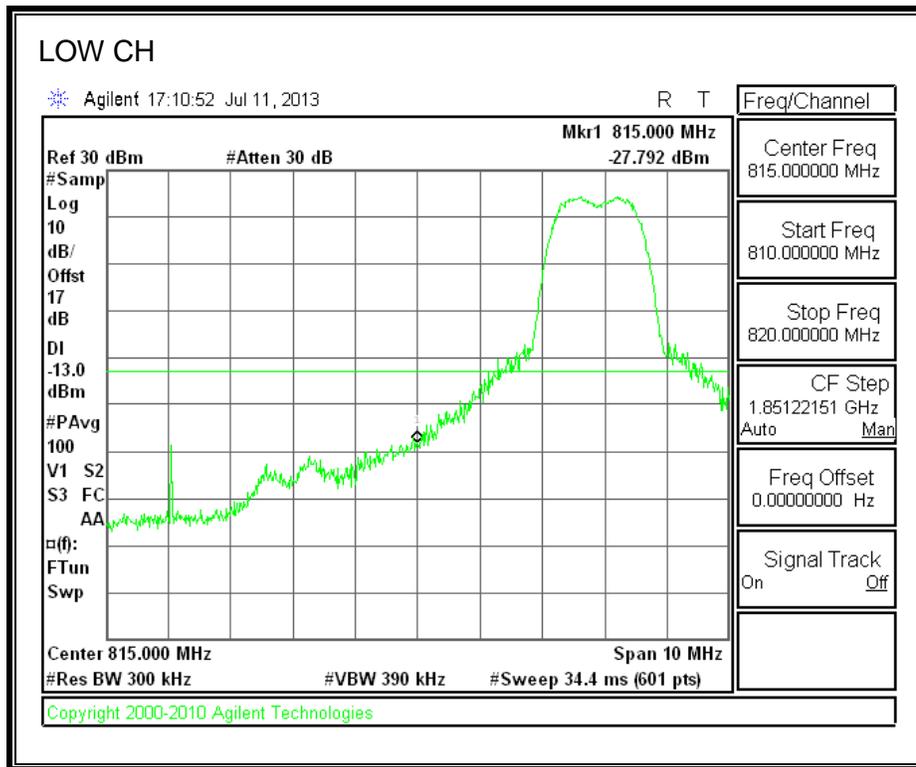


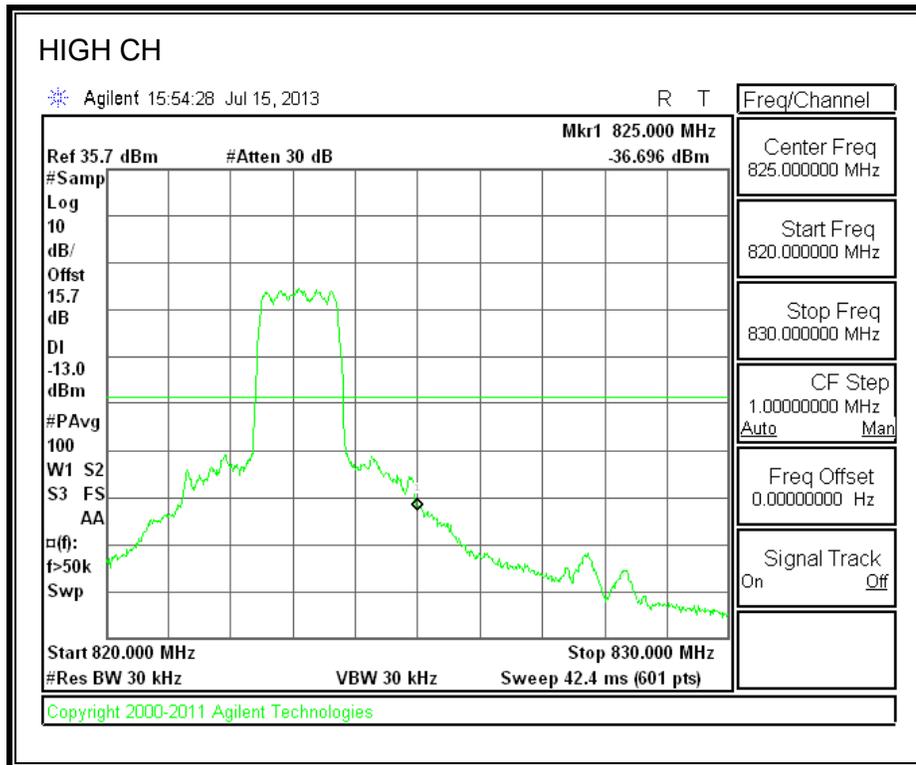
**BC1 Band**





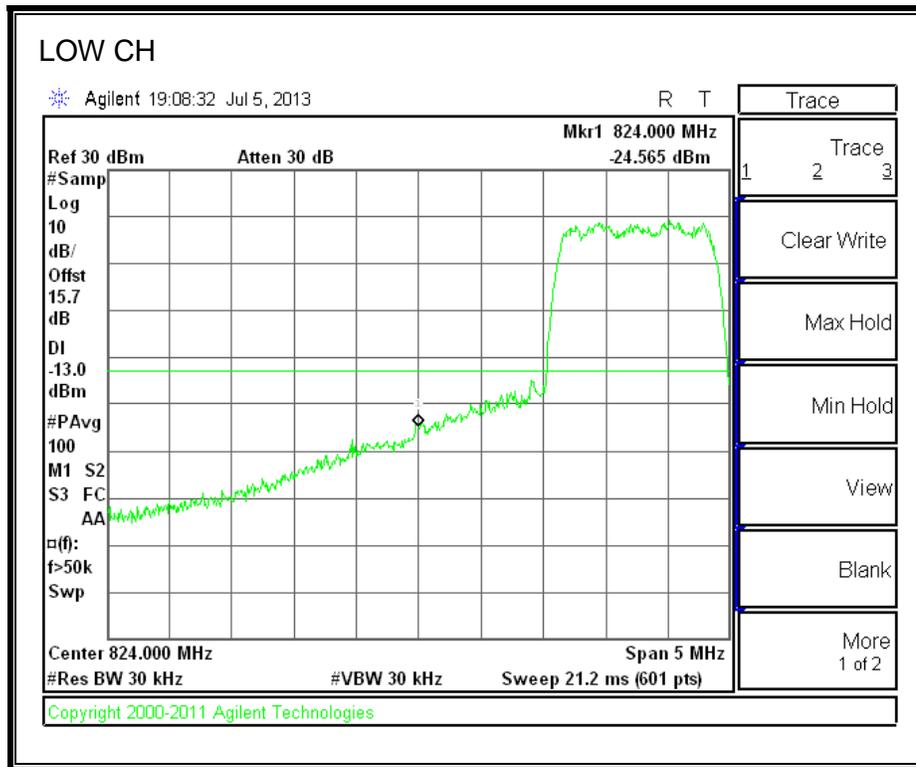
**BC10 Band**

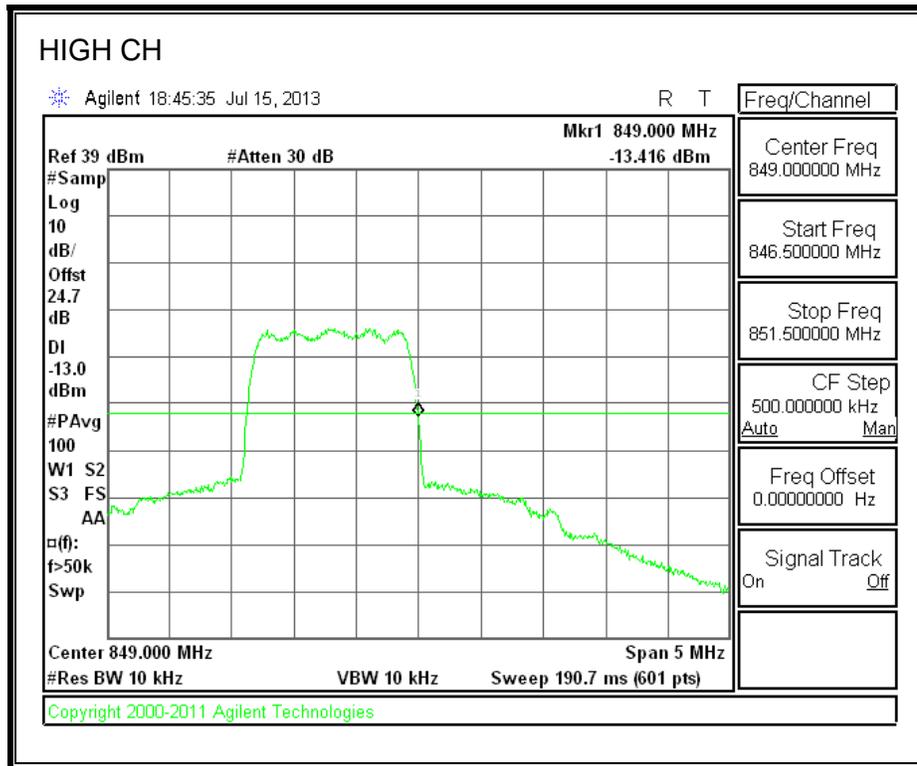




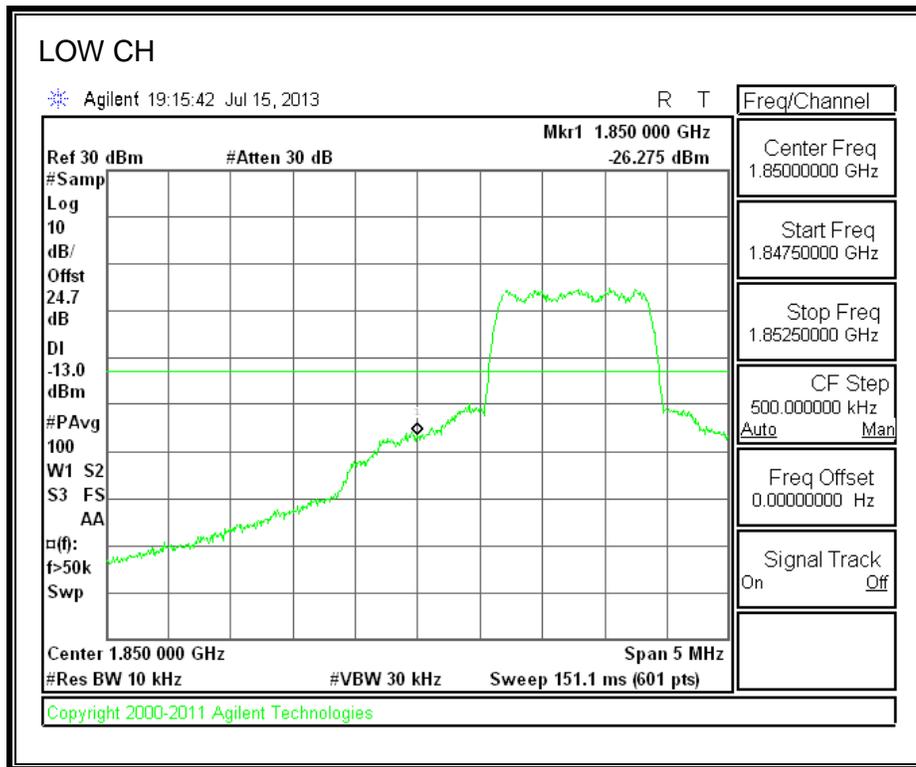
### 11.1.1. CDMA EV-DO

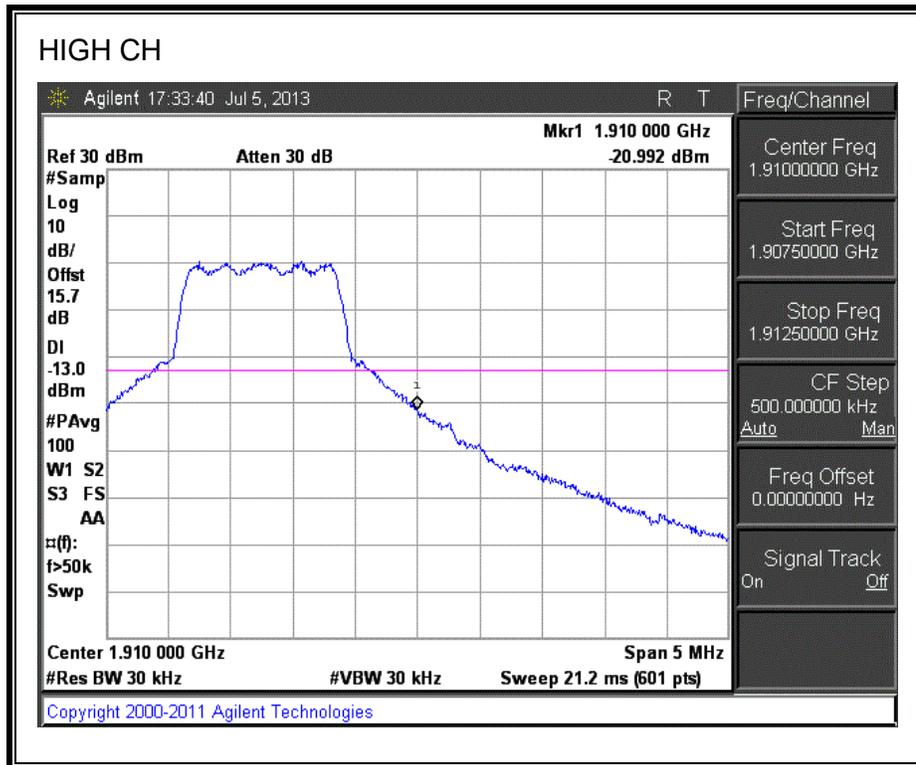
#### BCO BAND



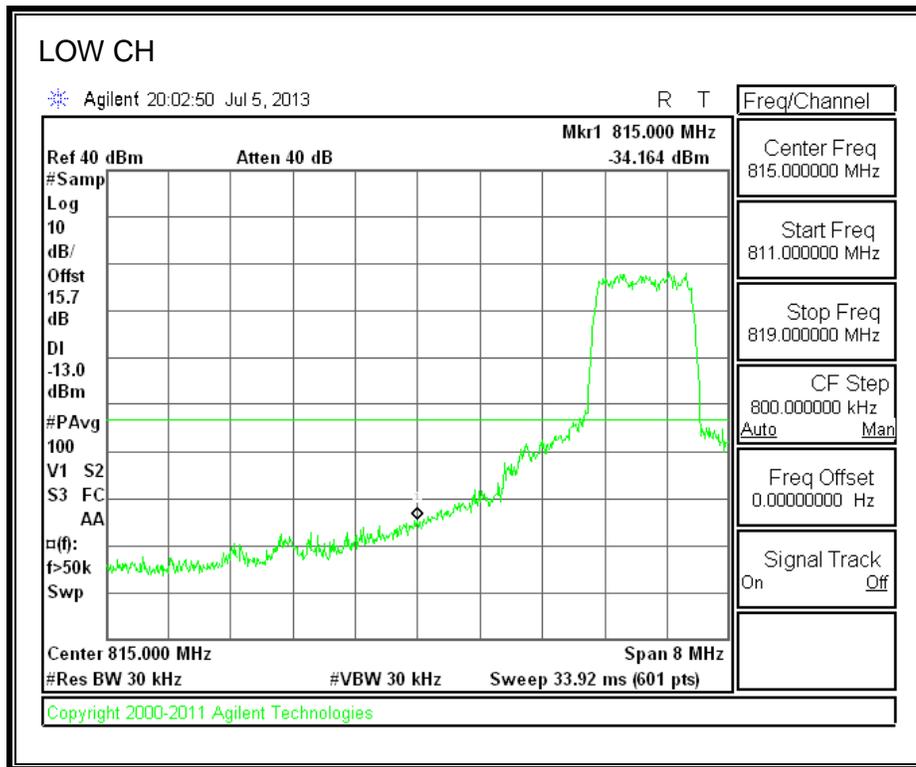


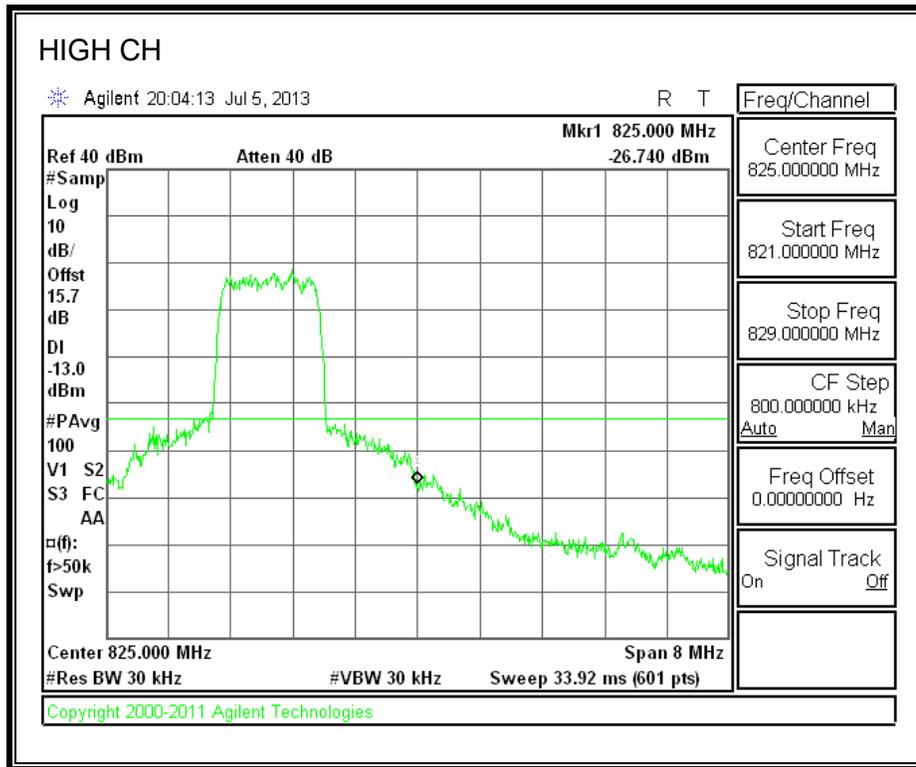
**BC1 Band**





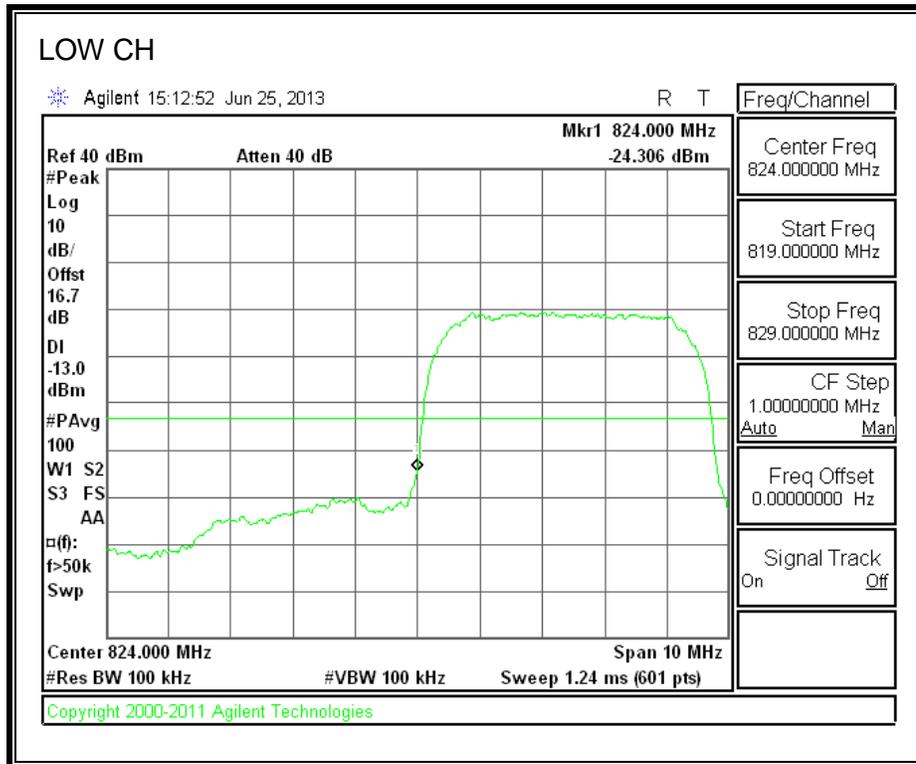
**BC10 Band**

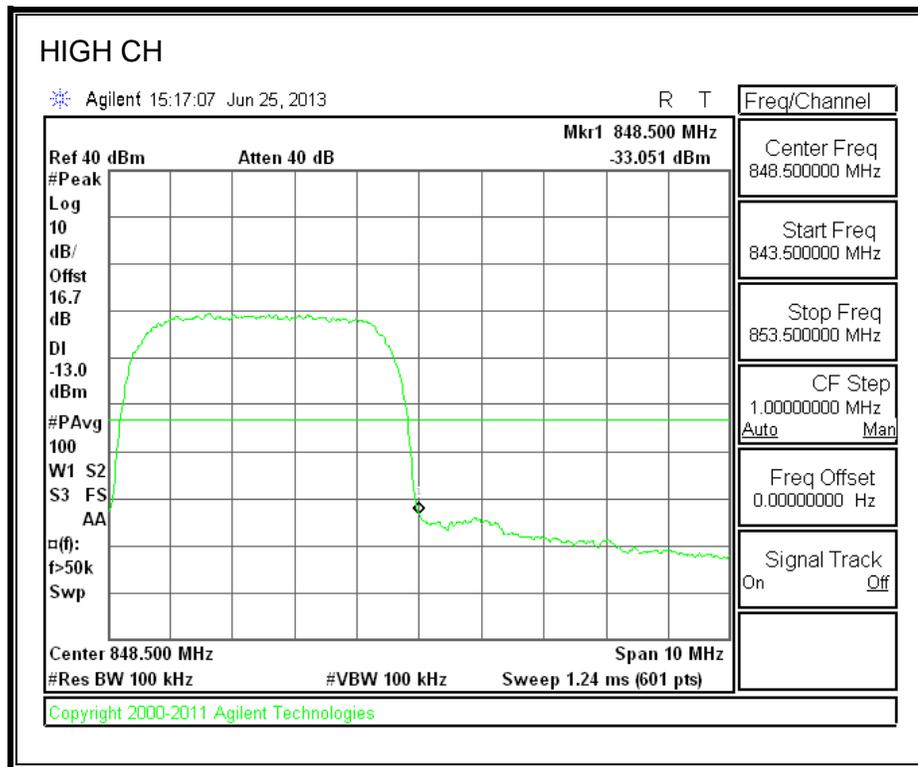




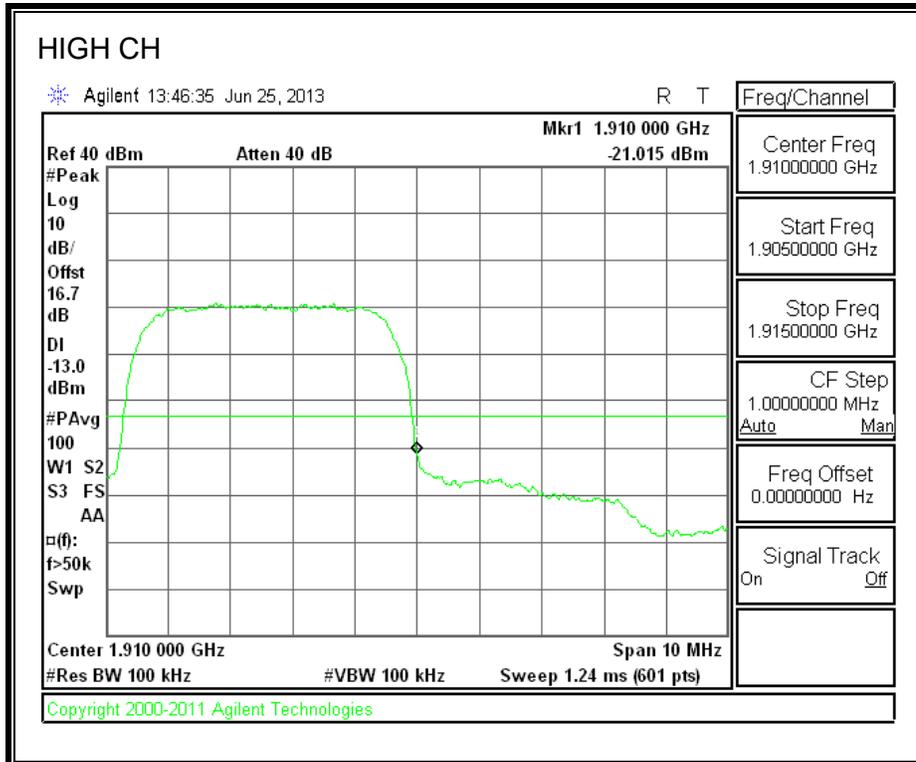
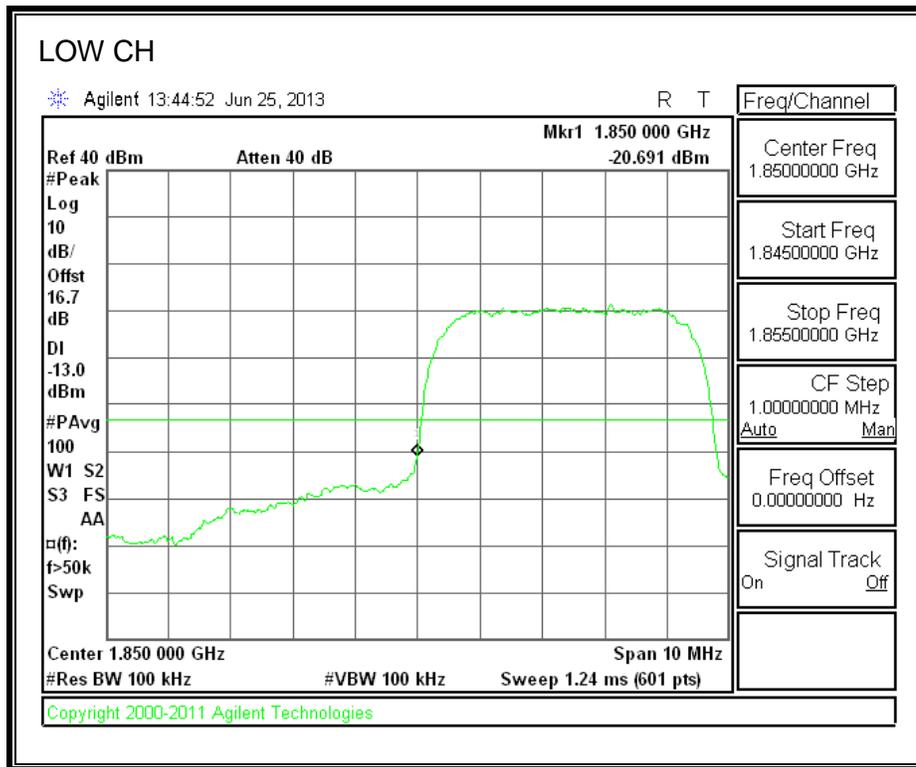
### 11.1.2. UMTS REL 99 MODE

#### BAND 5





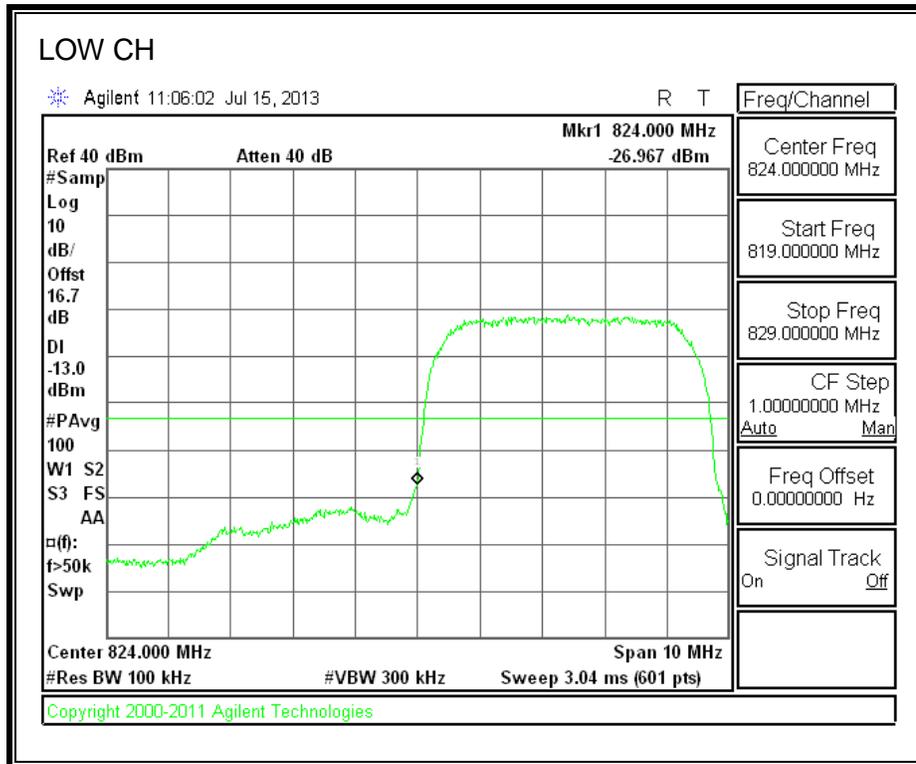
**BAND 2**

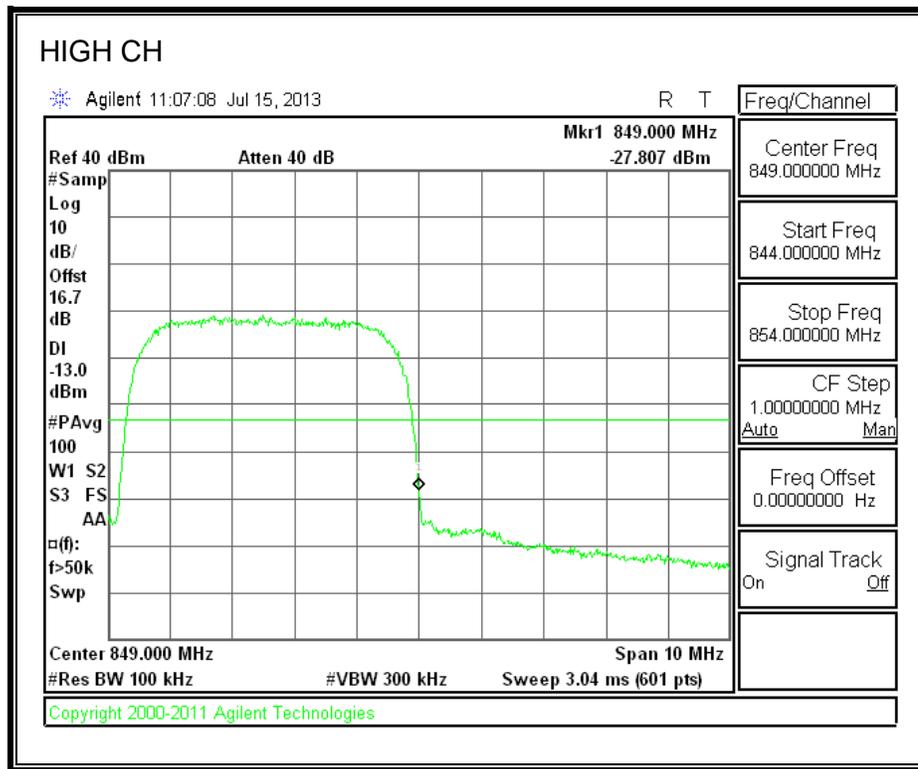




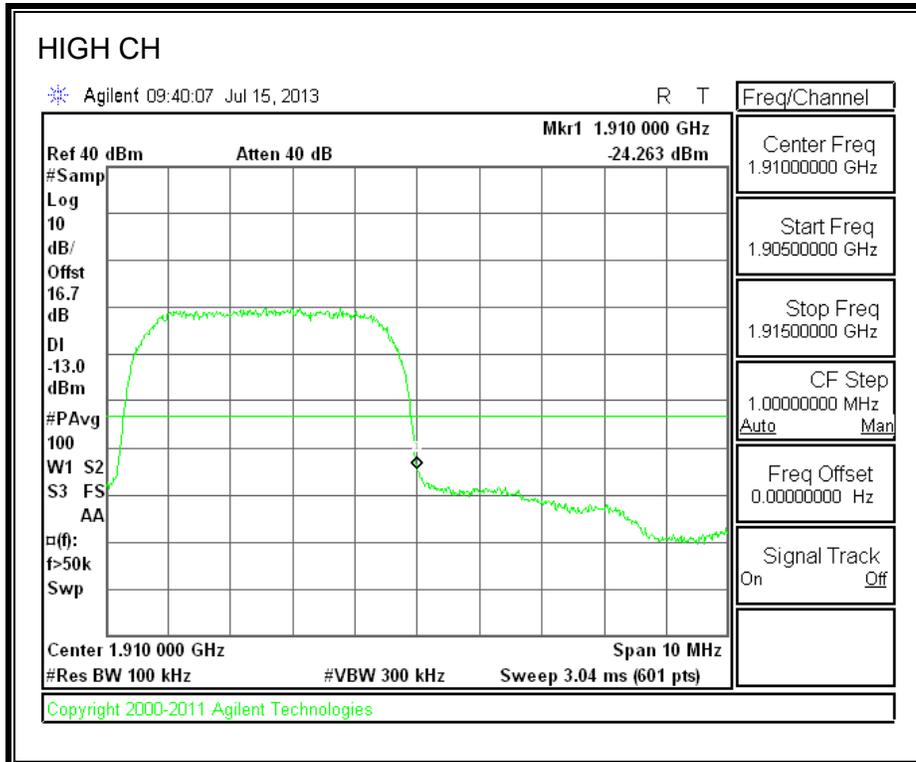
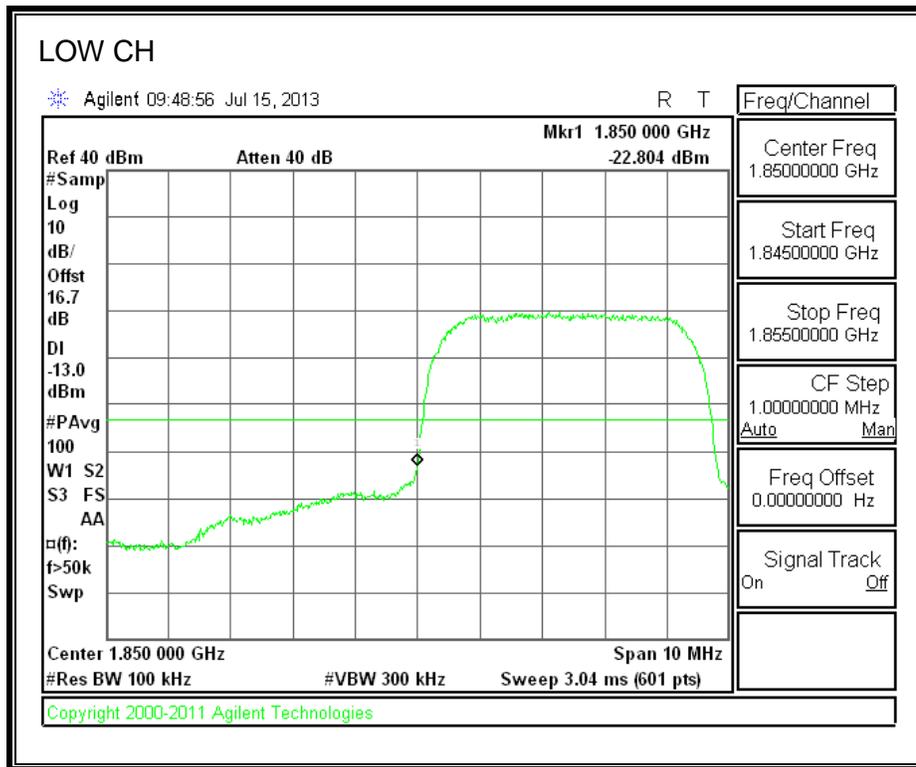
### 11.1.3. UMTS HSDPA MODE

#### BAND 5

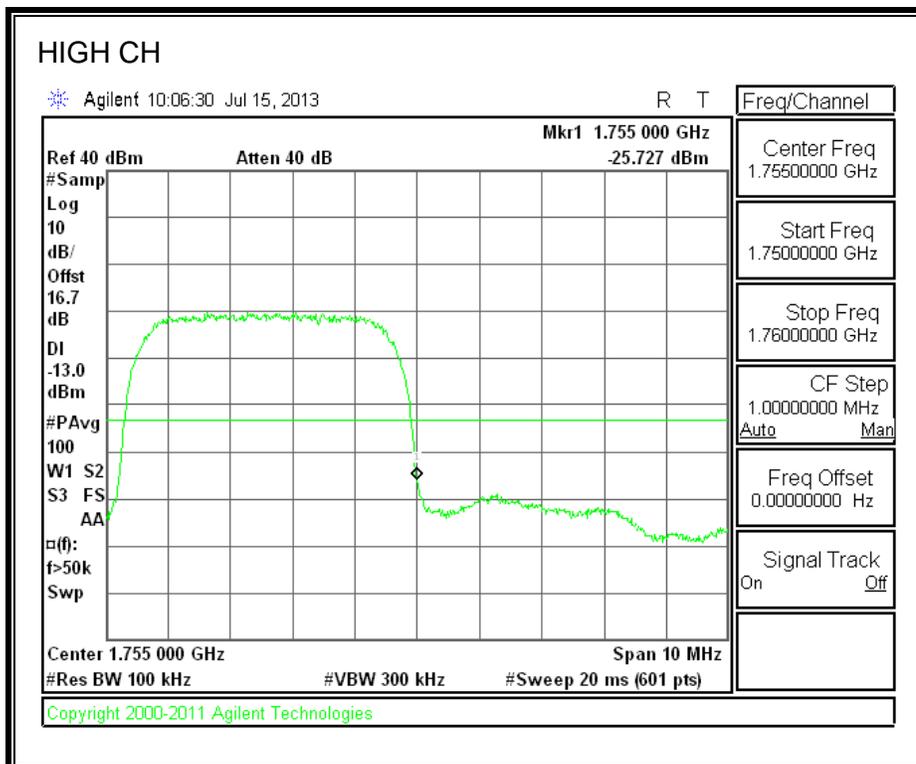
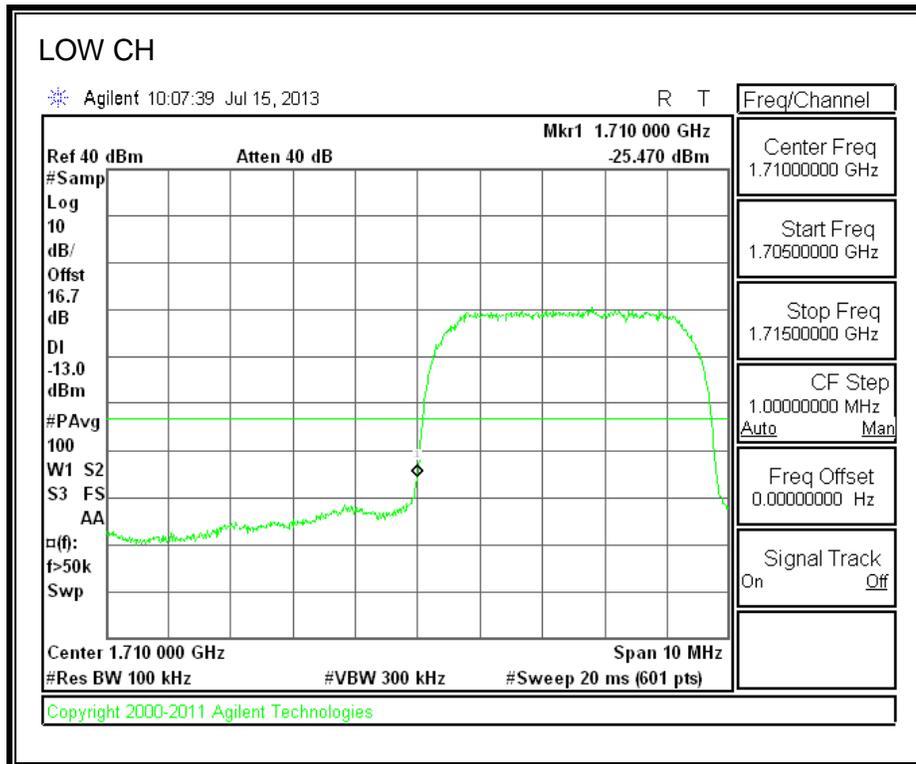




**BAND 2**



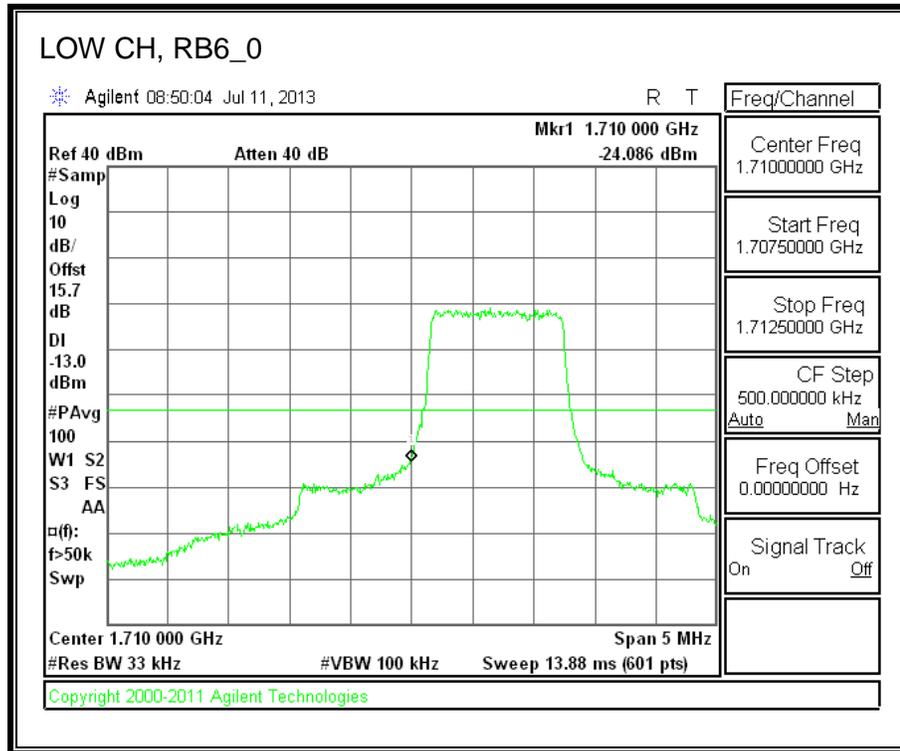
**BAND 4**

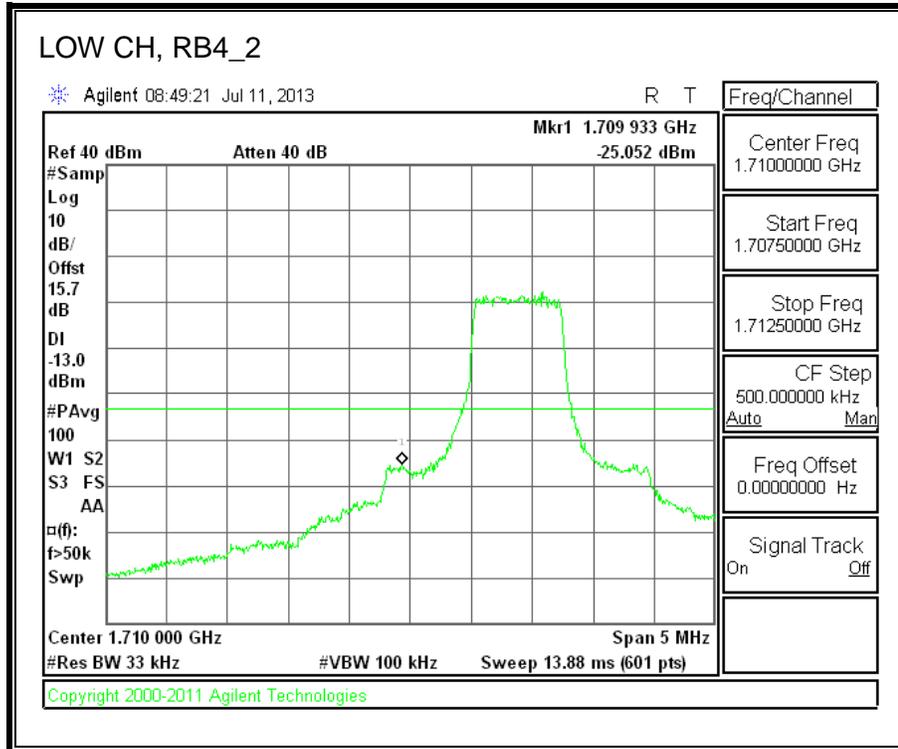


## 11.2. LTE BAND 4

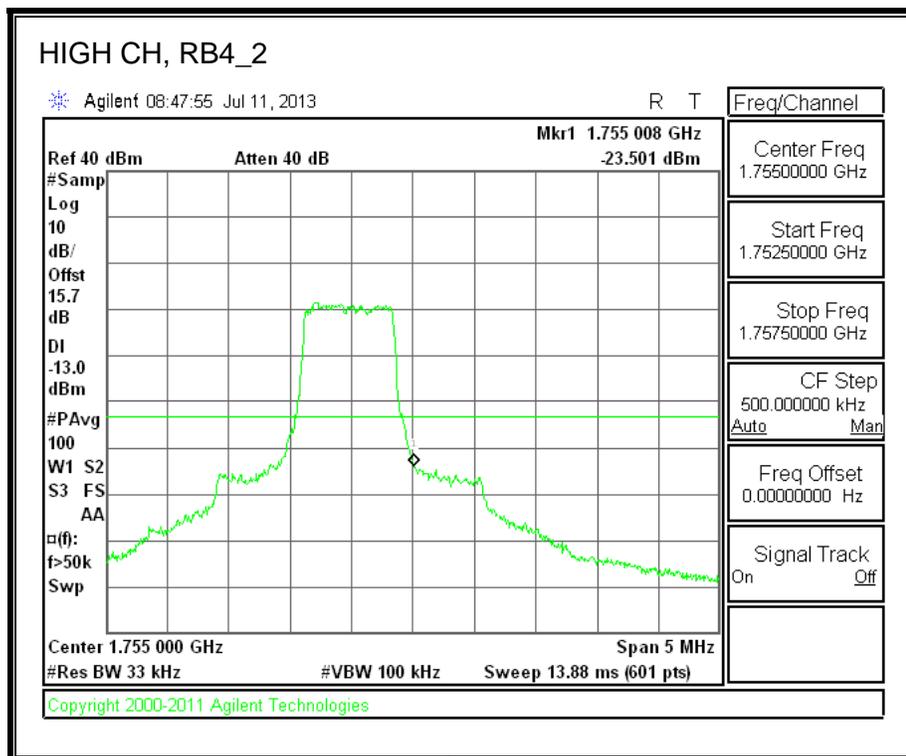
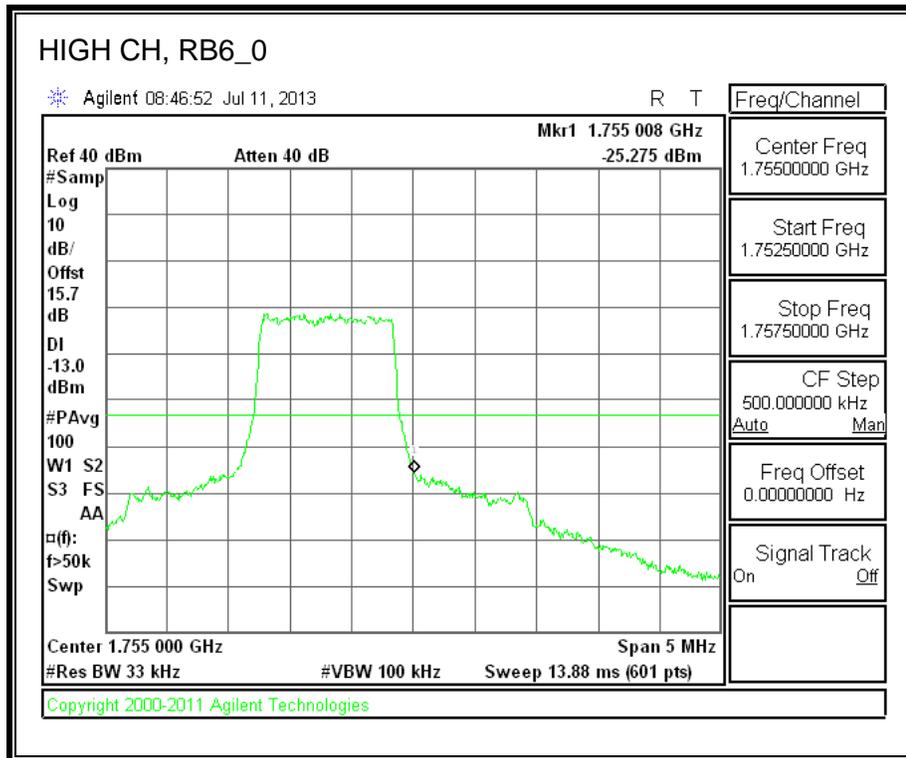
### 11.2.1. LTE BAND 4-1.4MHZ BANDWIDTH

#### LOW-QPSK

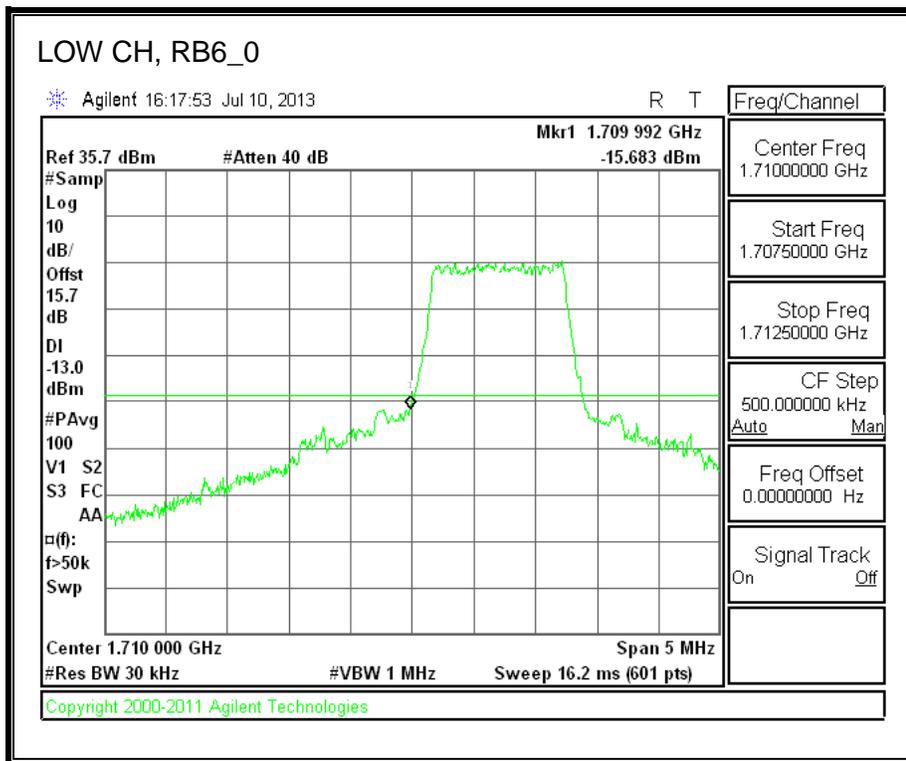




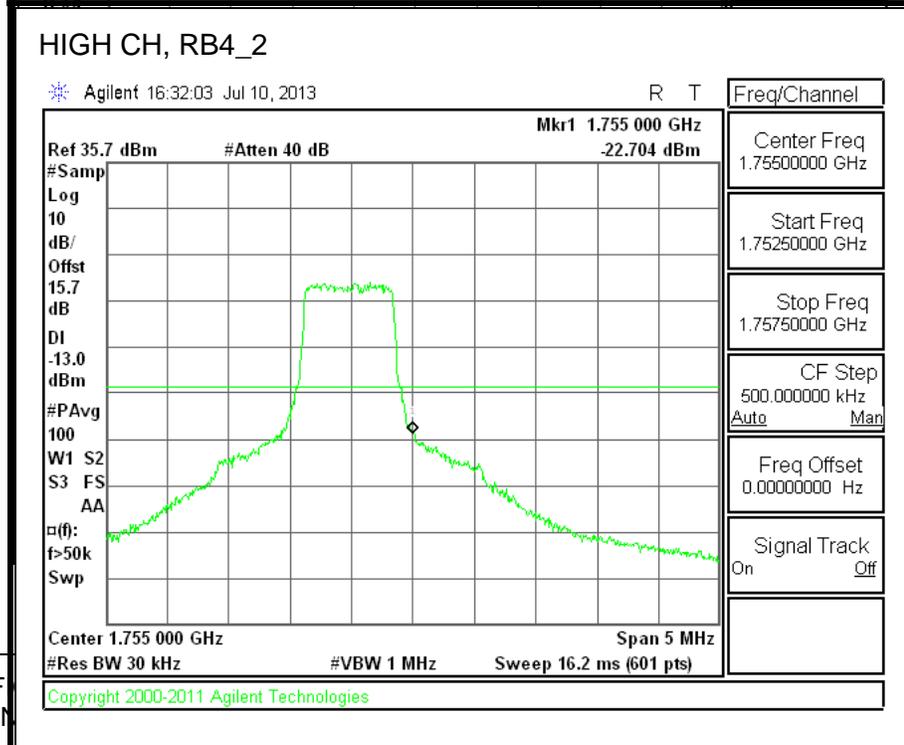
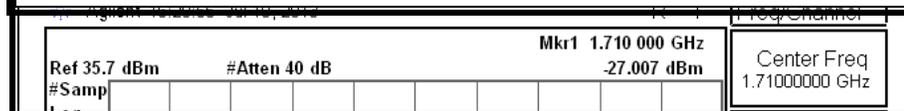
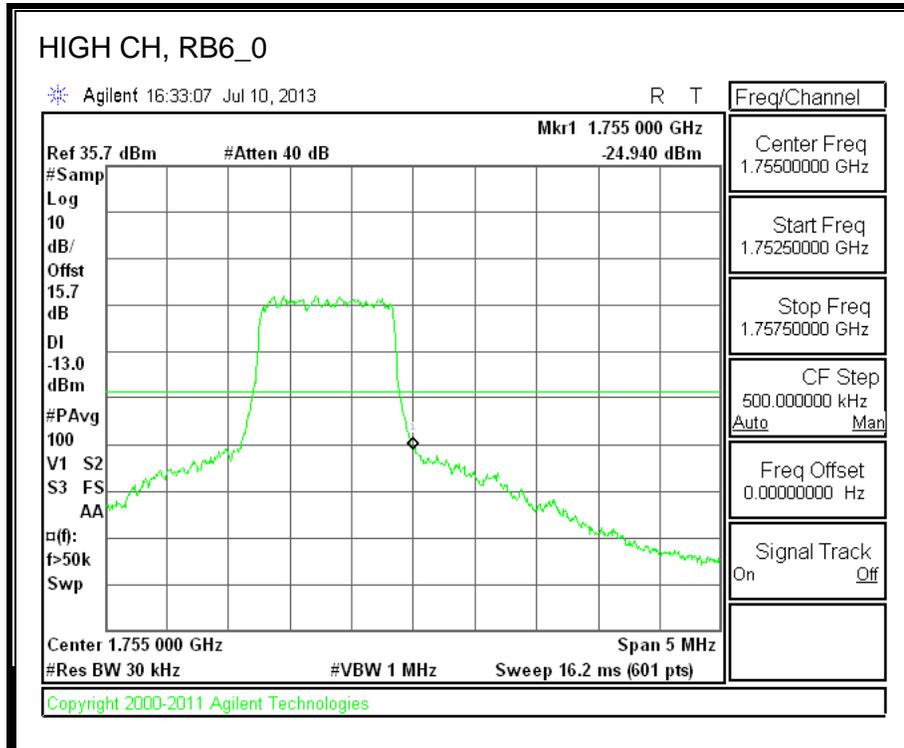
**HIGH-QPSK**



**LOW-16QAM**



**HIGH-16QAM**

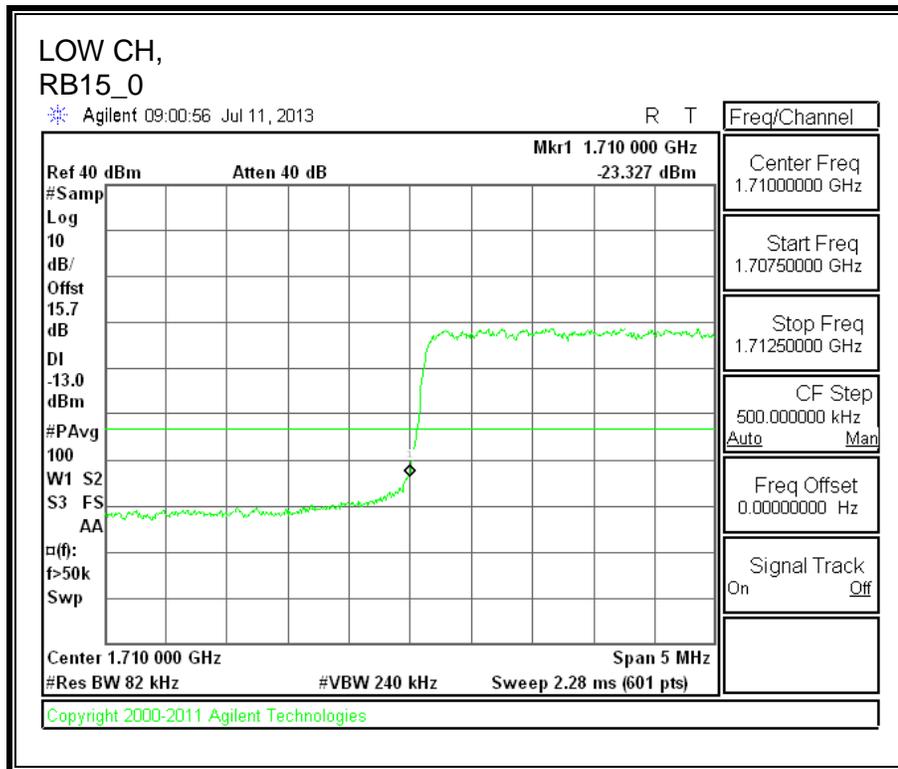


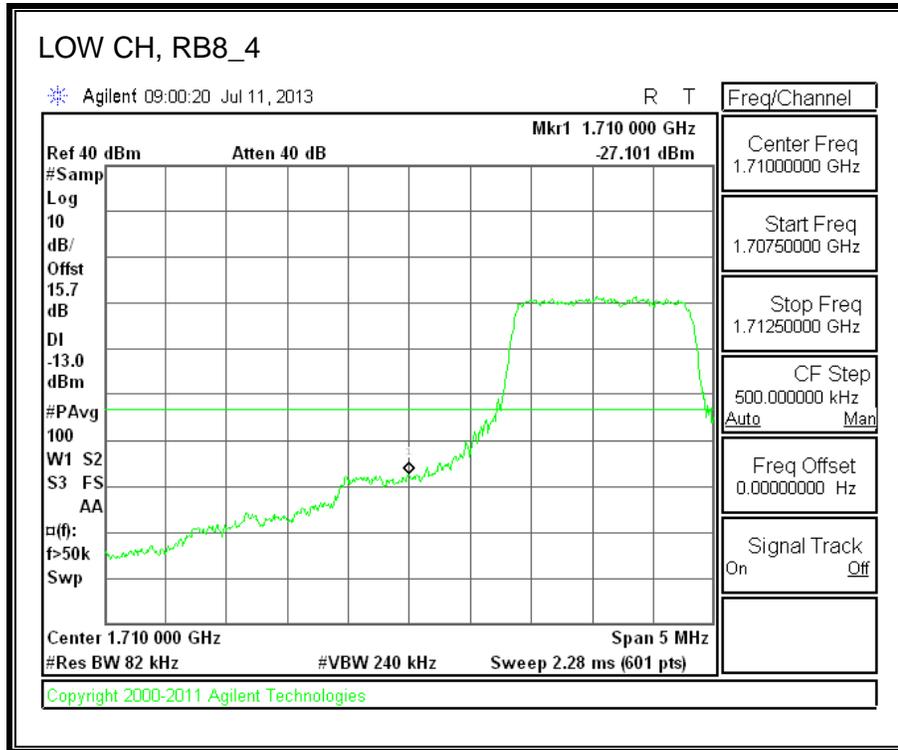
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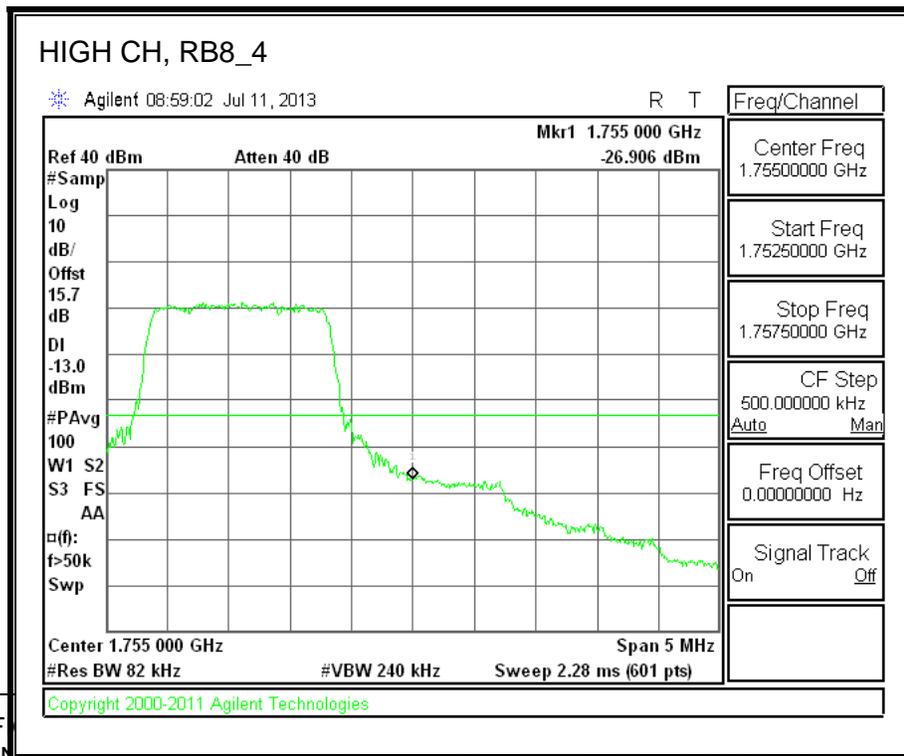
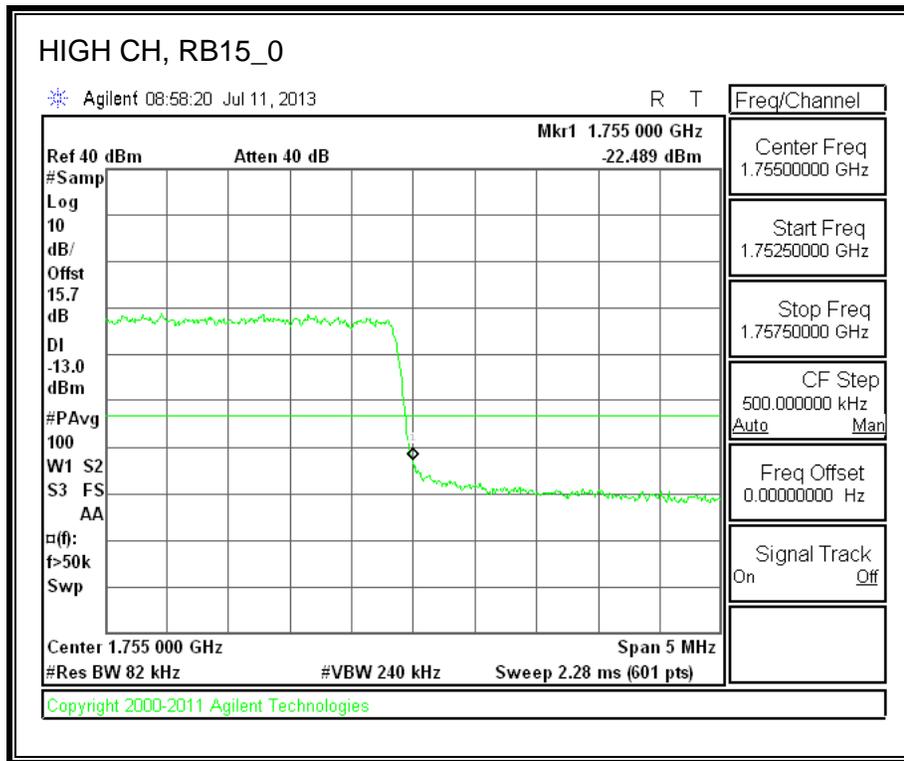
### 11.2.2. LTE BAND 4-3MHZ BANDWIDTH

#### LOW-QPSK

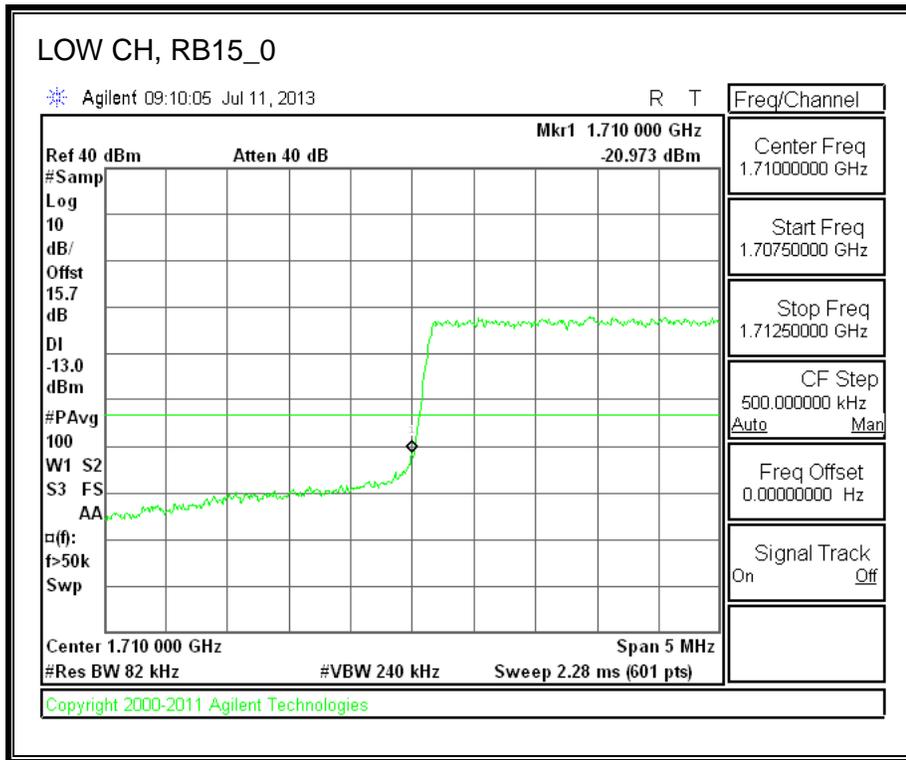


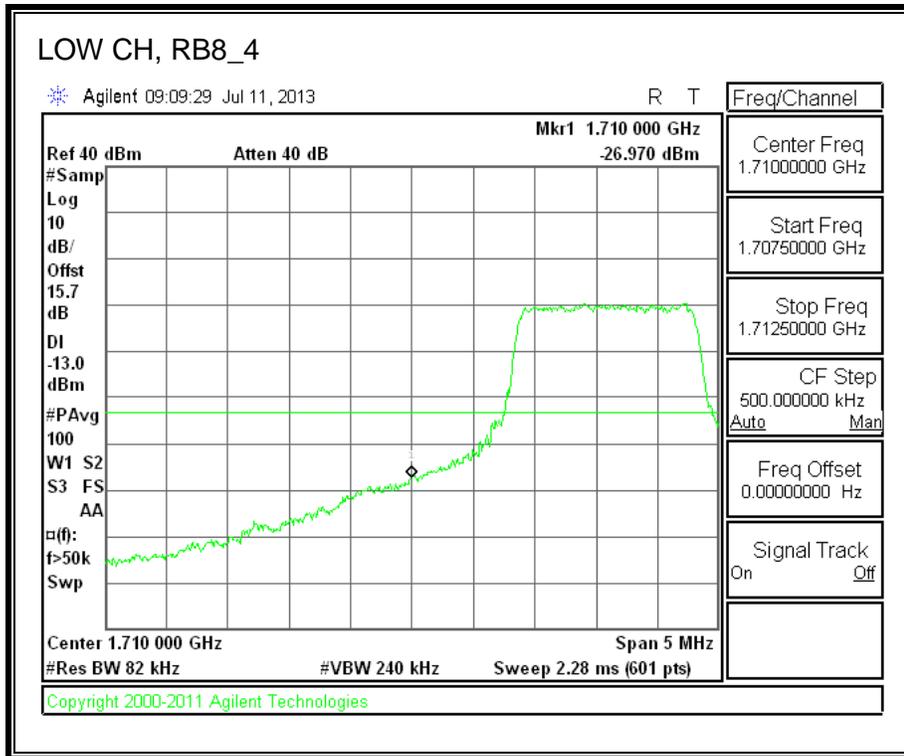


**HIGH-QPSK**

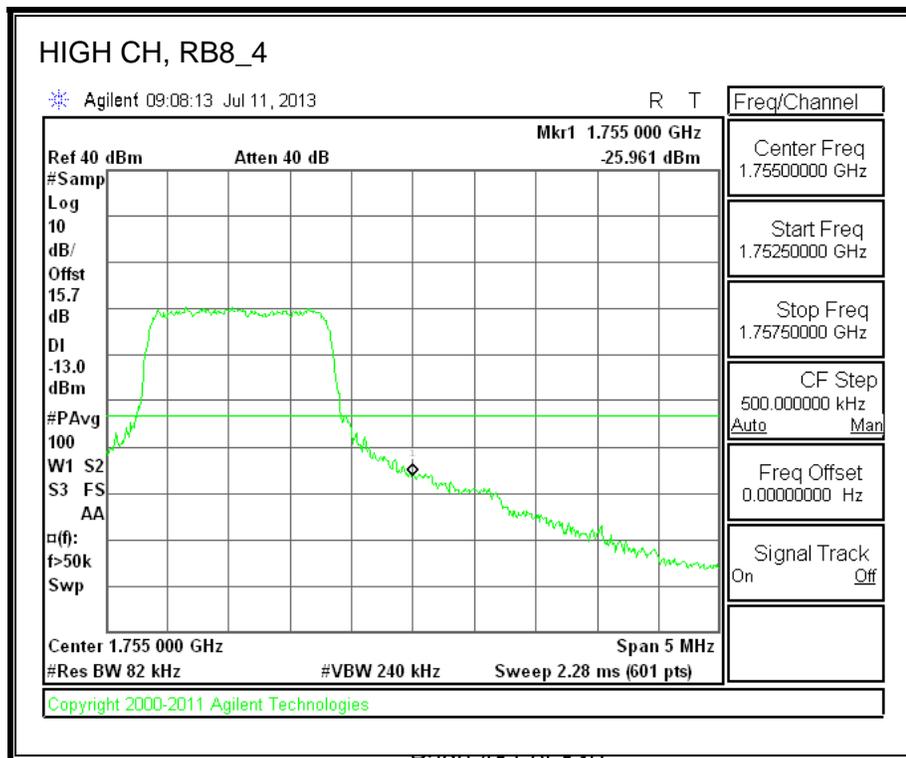
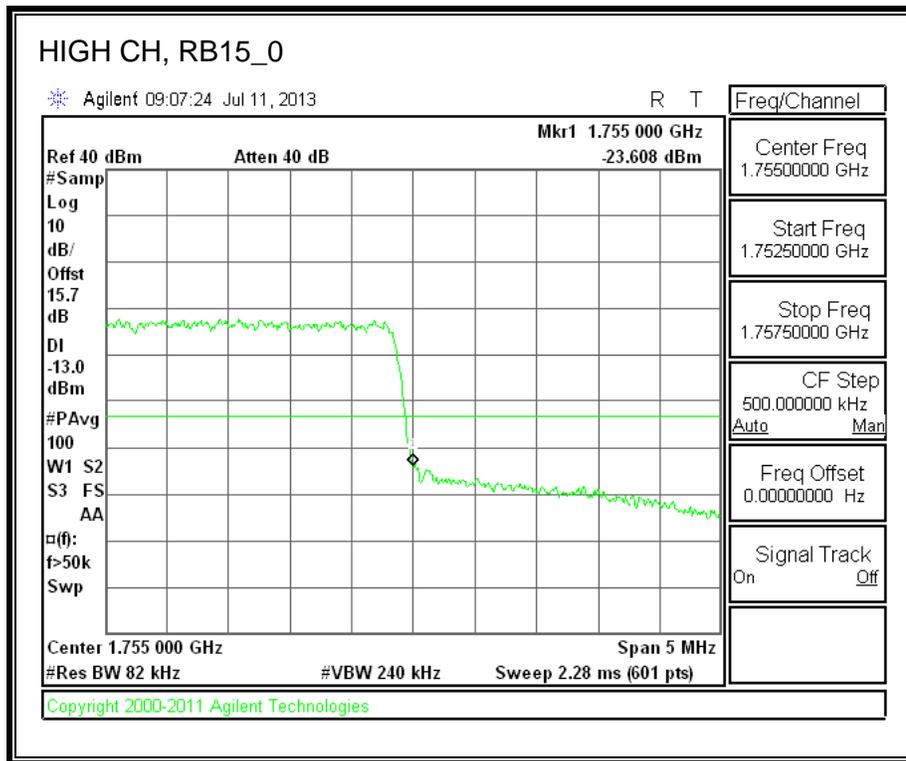


**LOW-16QAM**

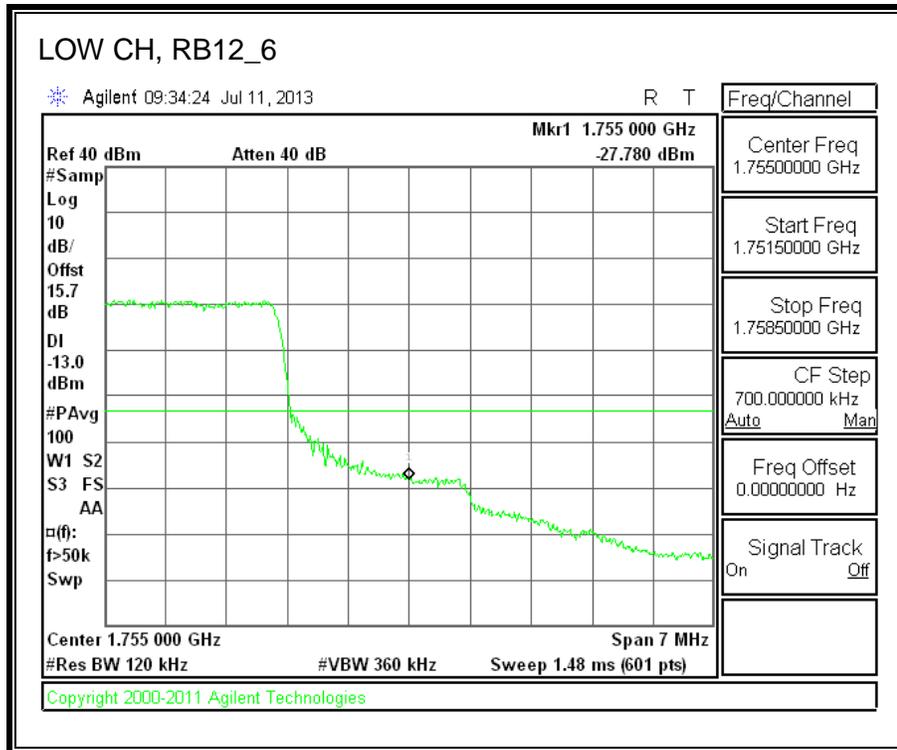




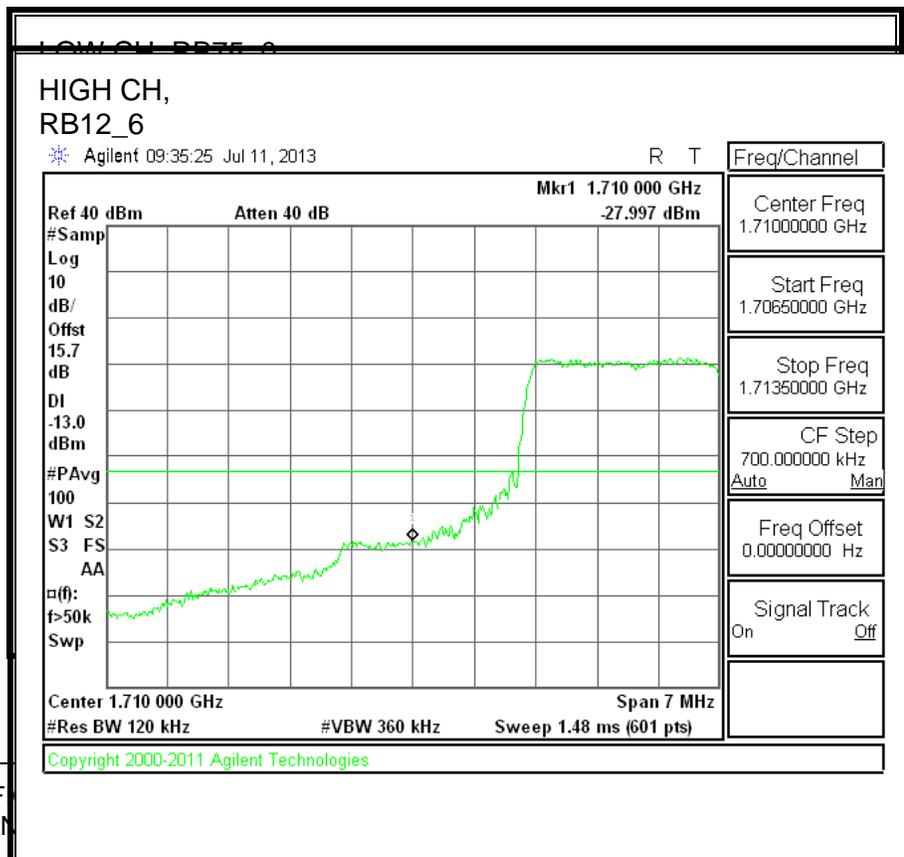
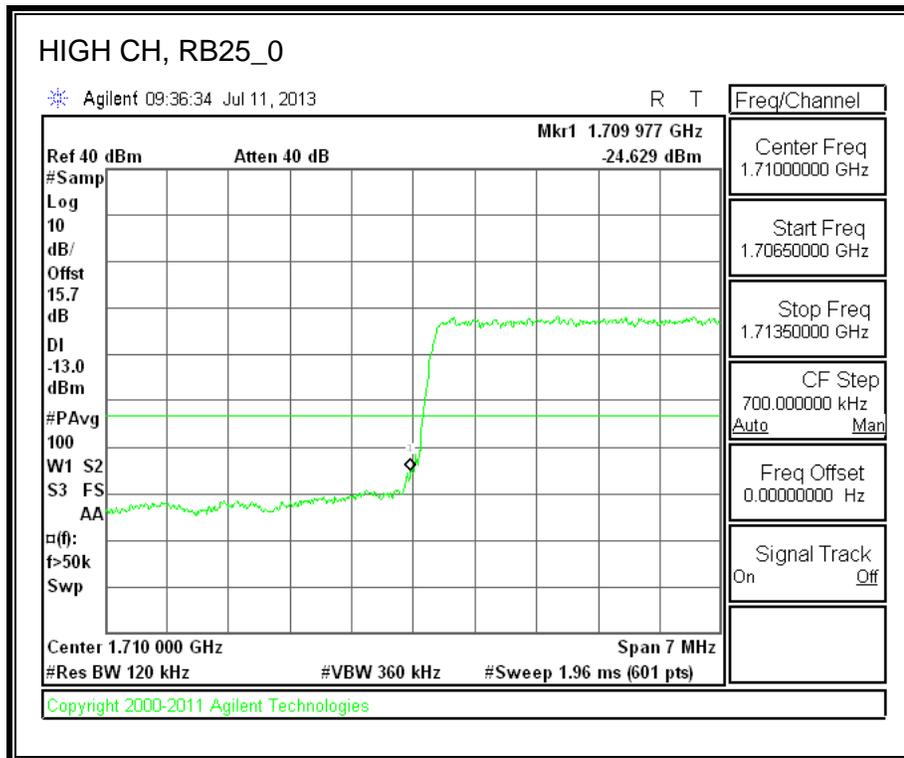
**HIGH-16QAM**







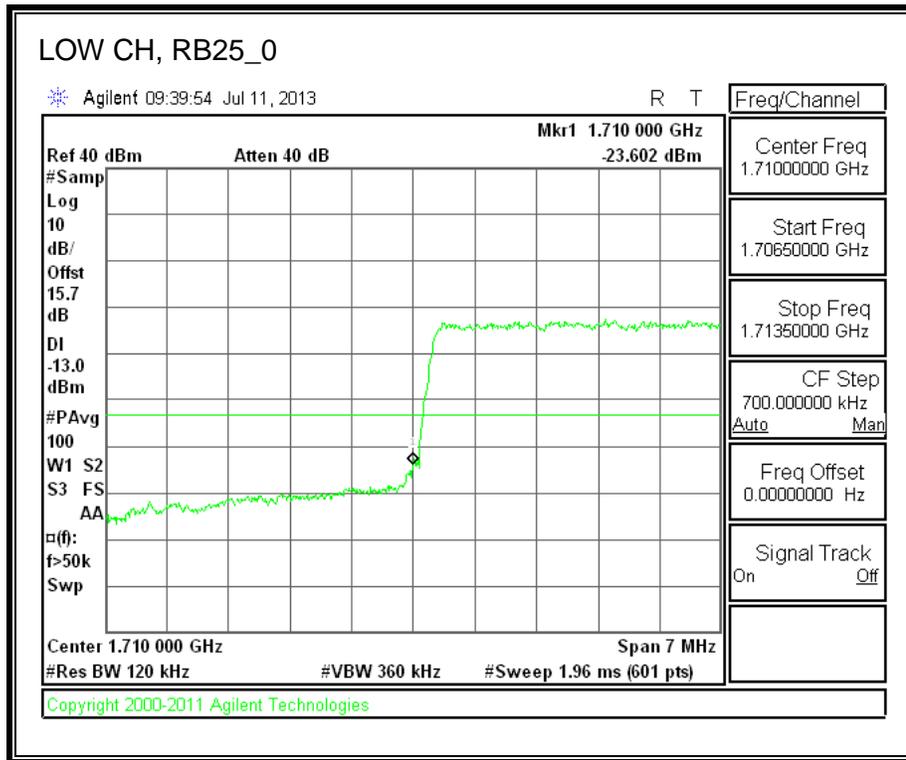
**HIGH-QPSK**

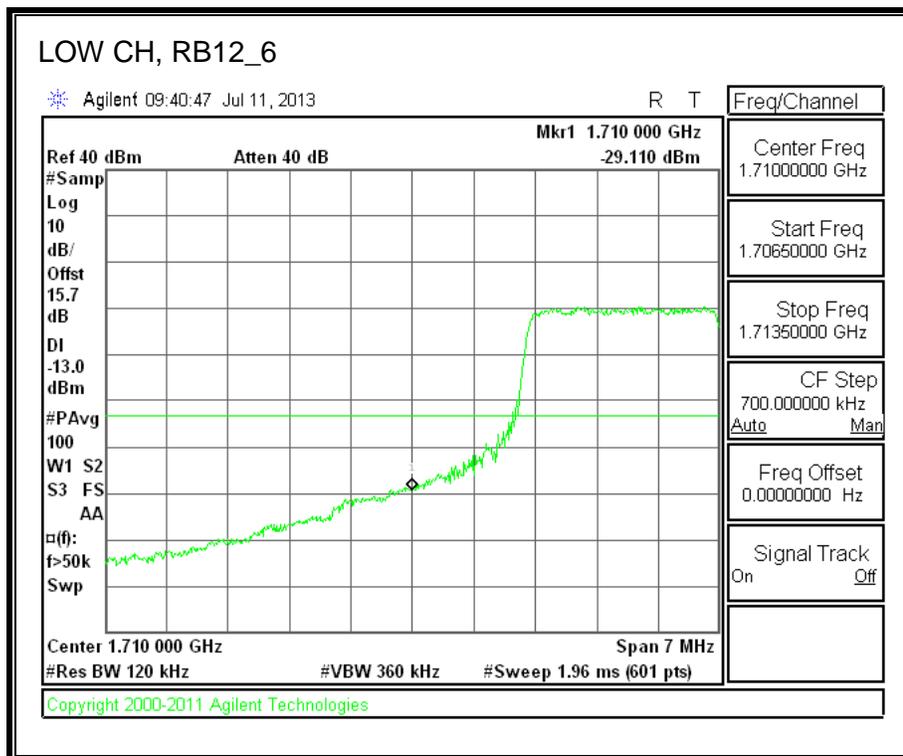


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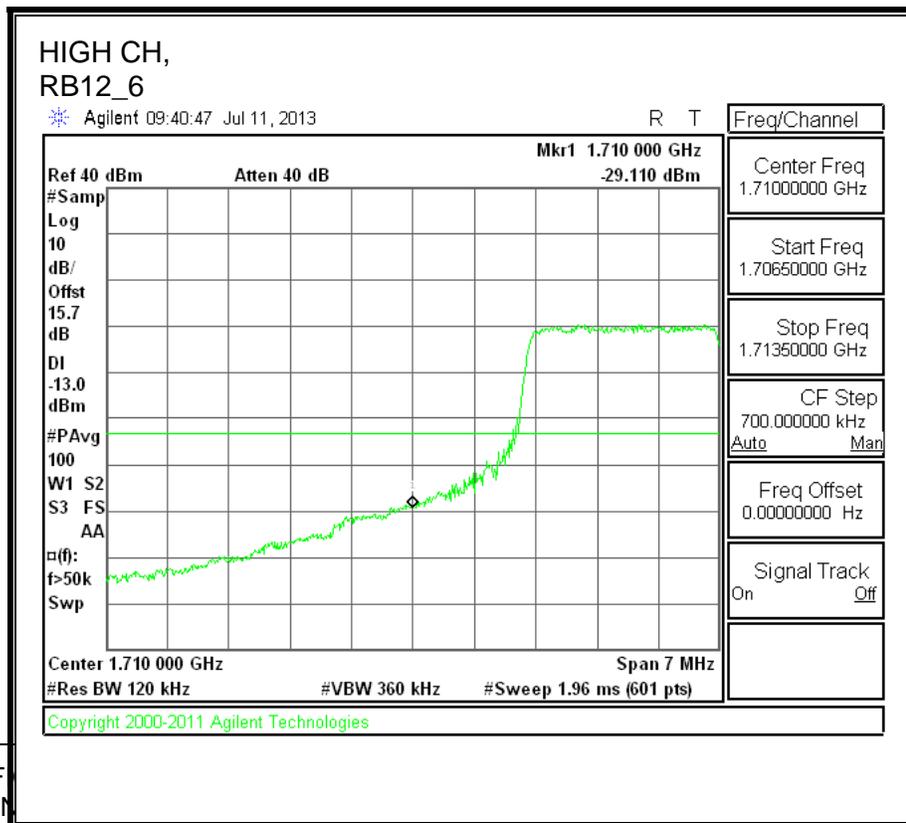
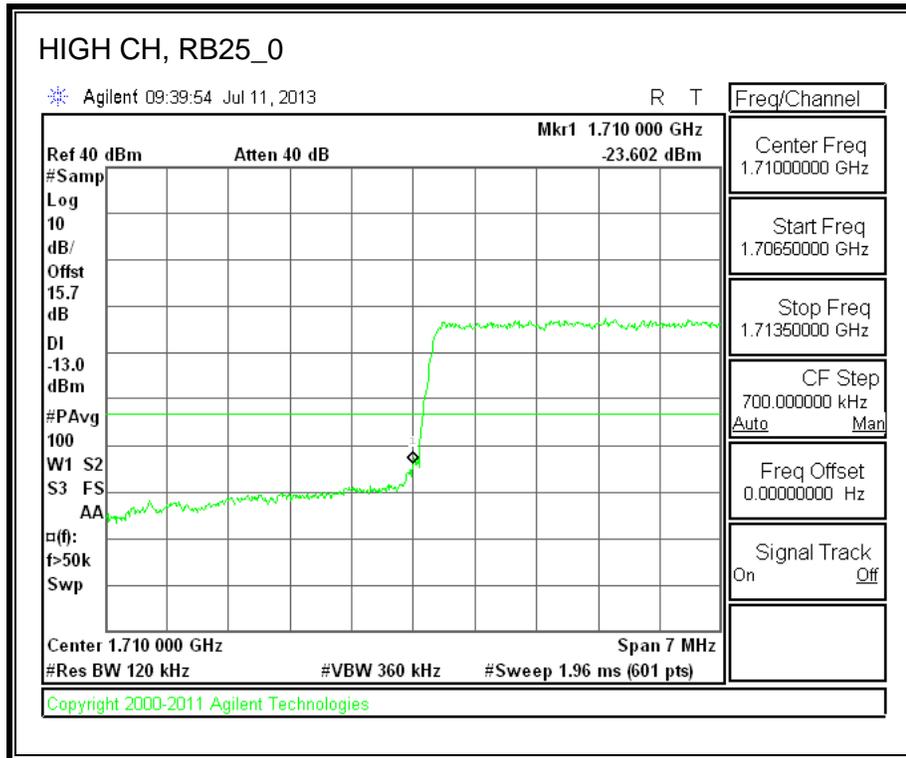
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**LOW-16QAM**



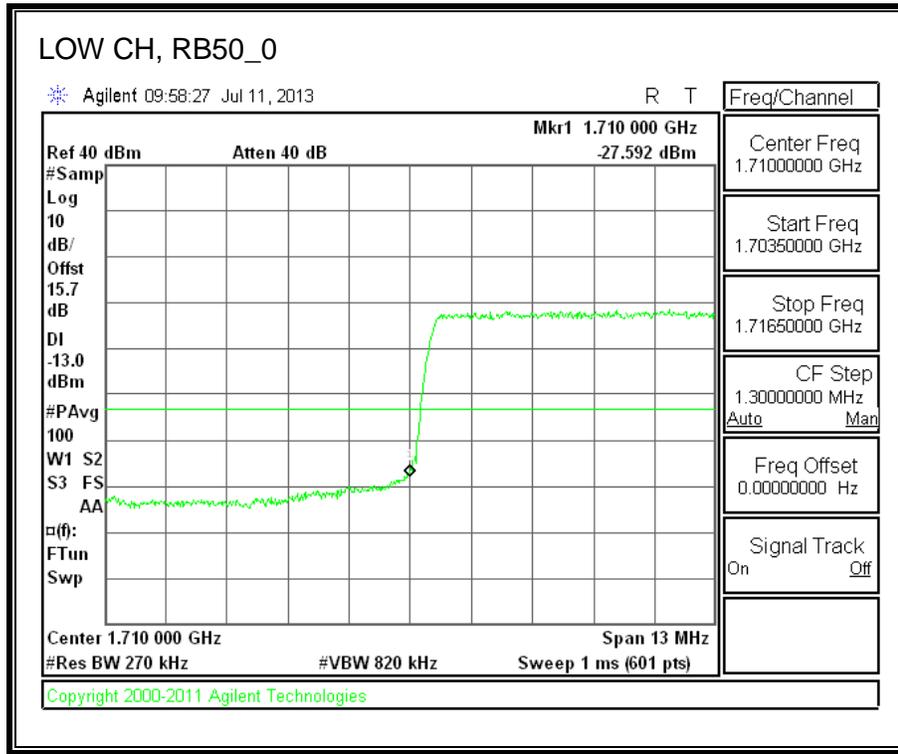


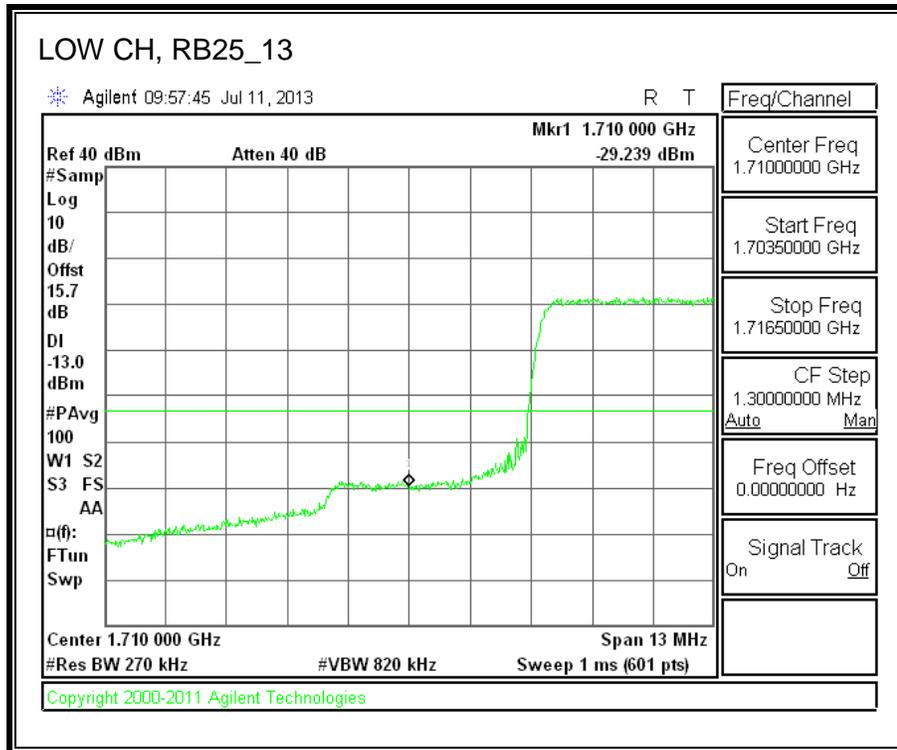
**HIGH-16QAM**



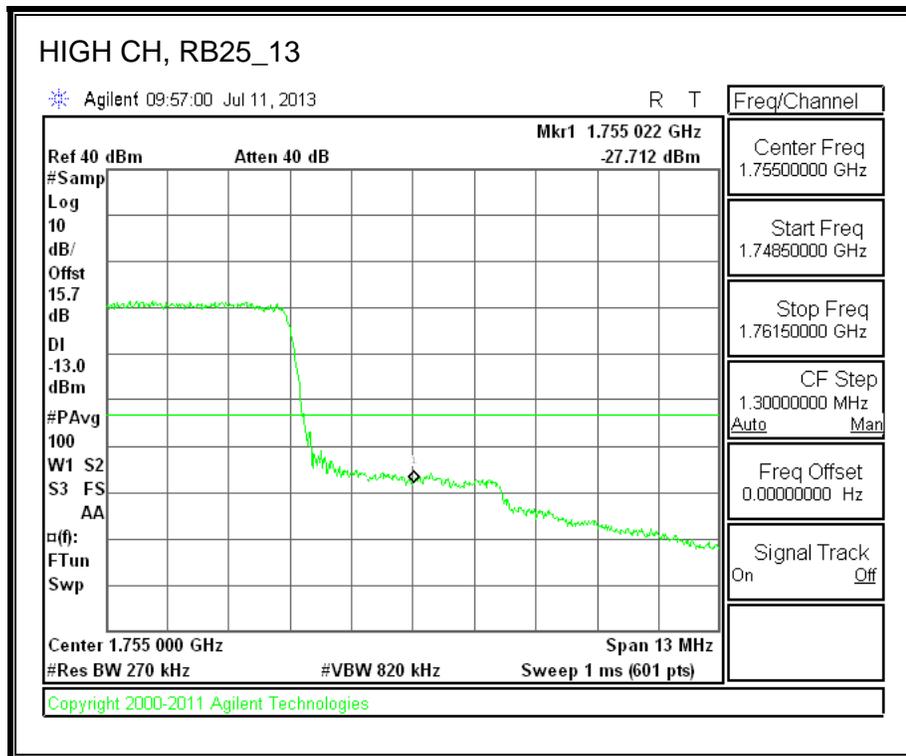
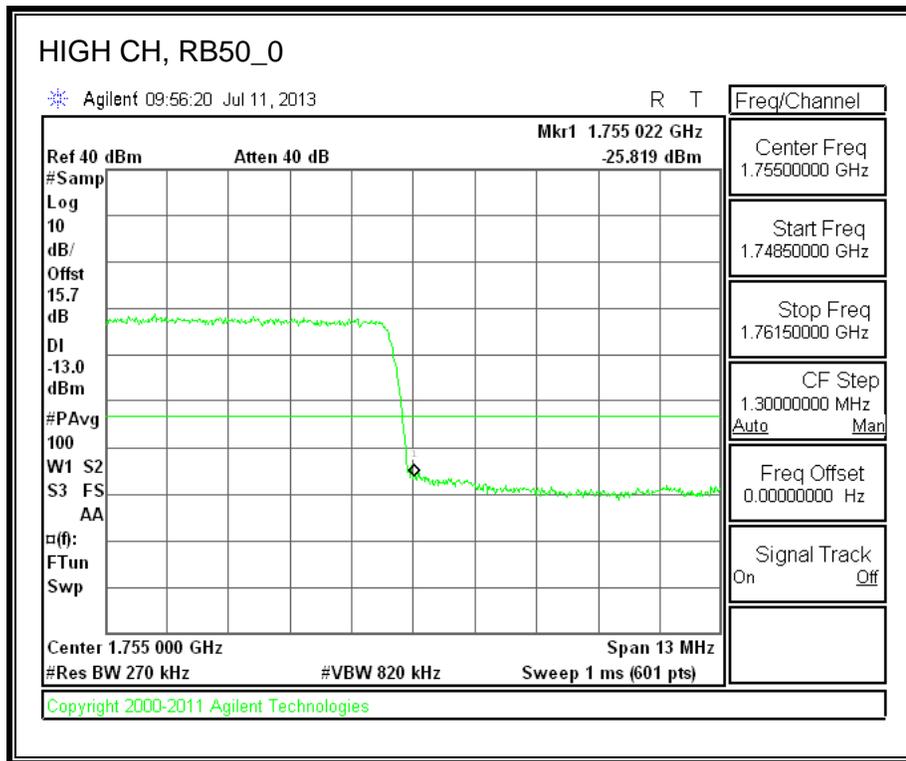
### 11.2.4. LTE BAND 4-10MHZ BANDWIDTH

#### LOW-QPSK

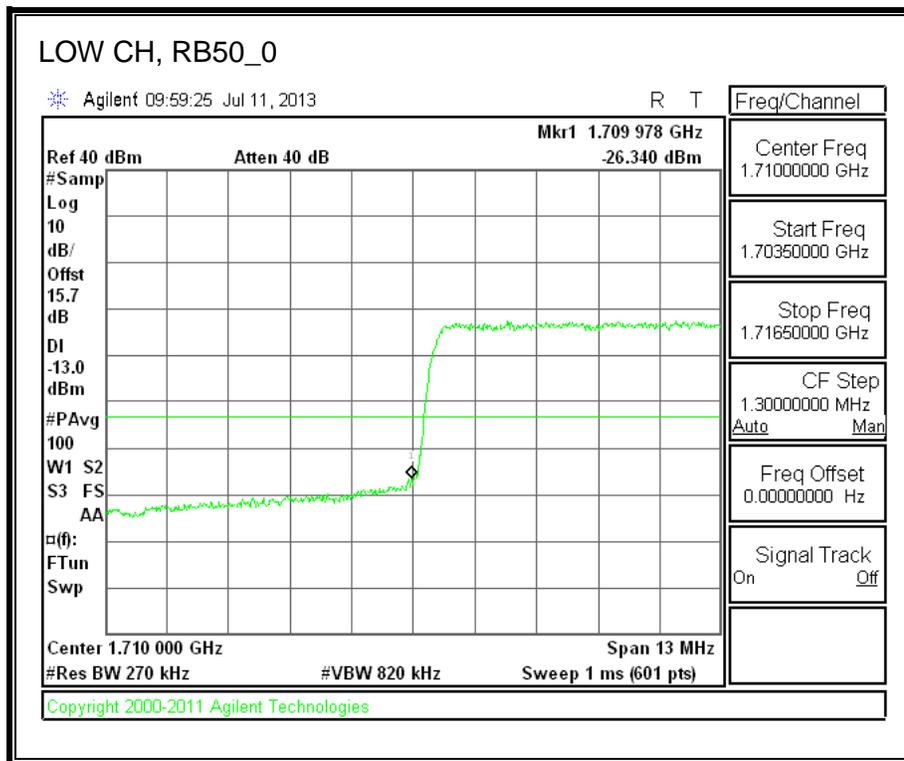




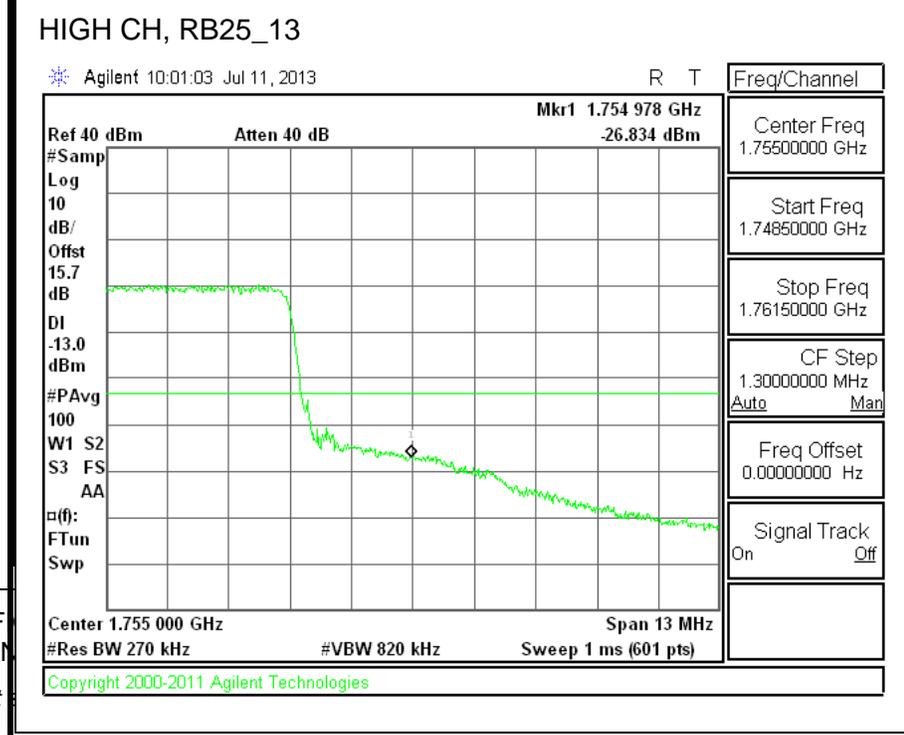
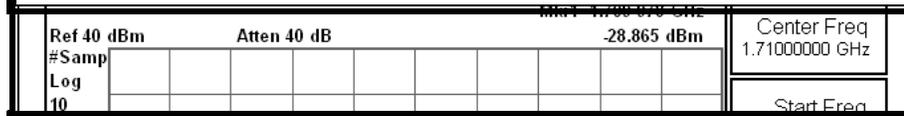
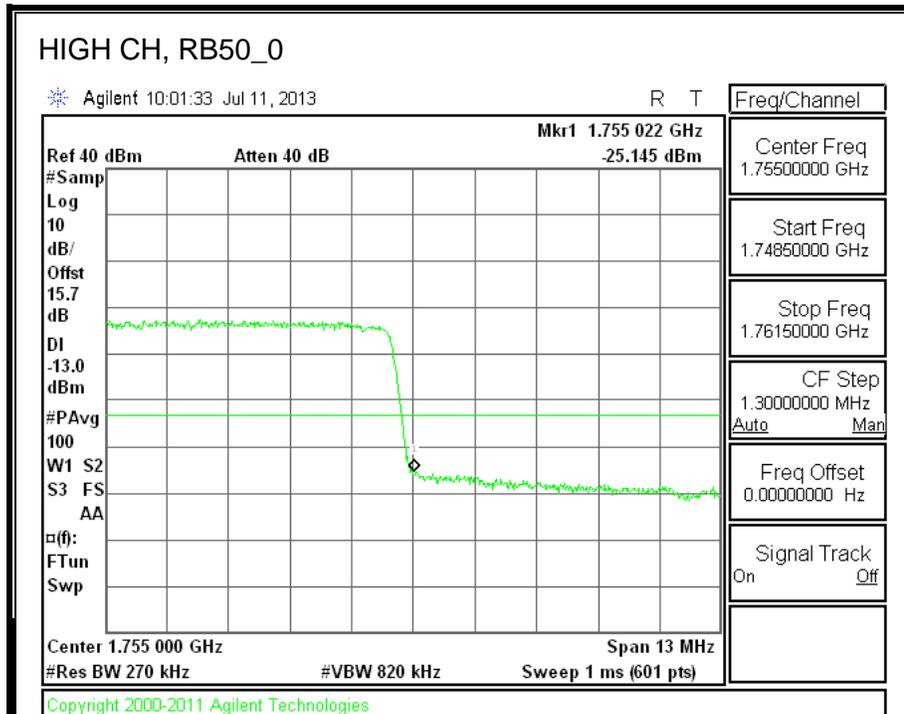
**HIGH-QPSK**



**LOW-16QAM**

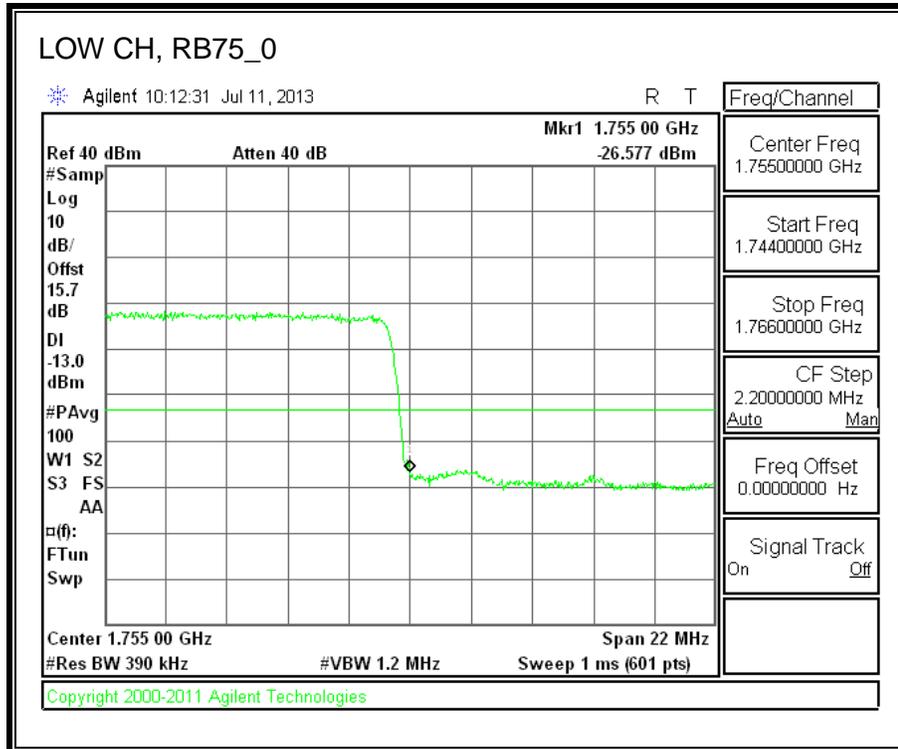


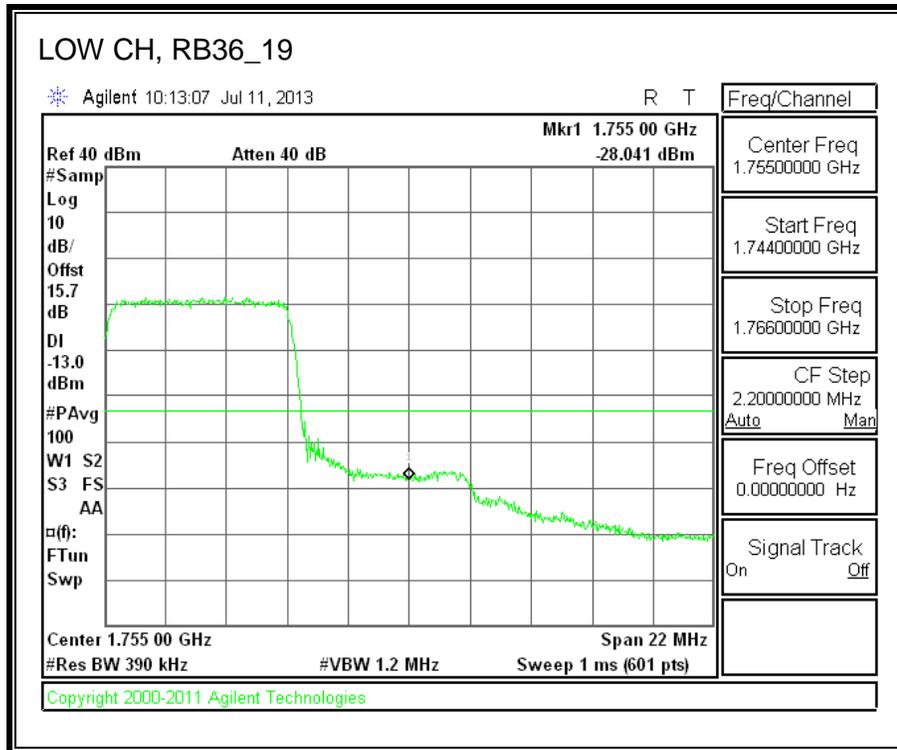
**HIGH-16QAM**



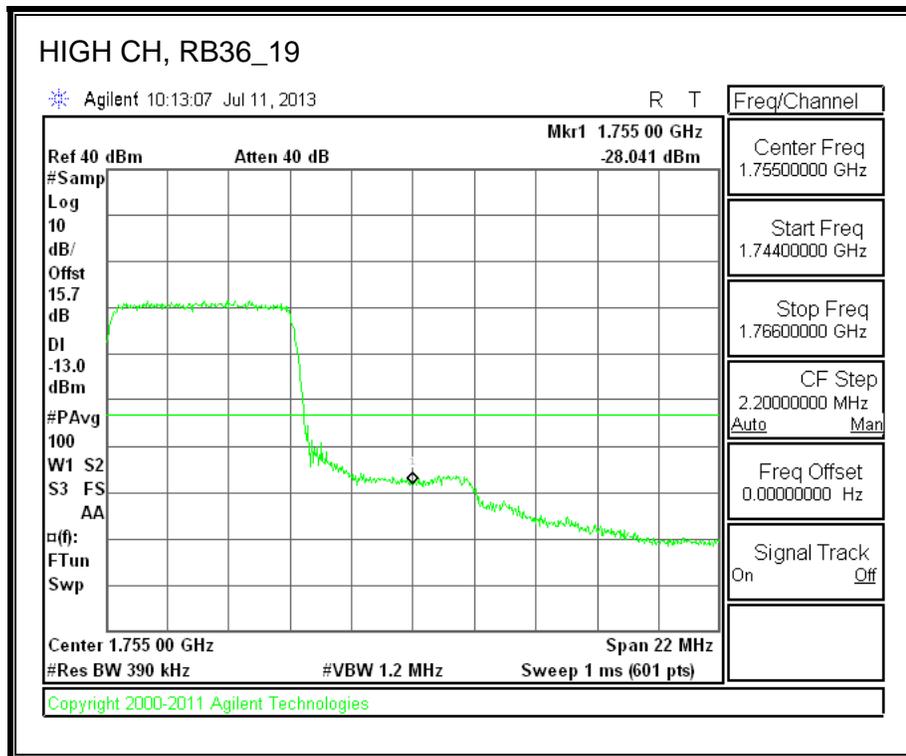
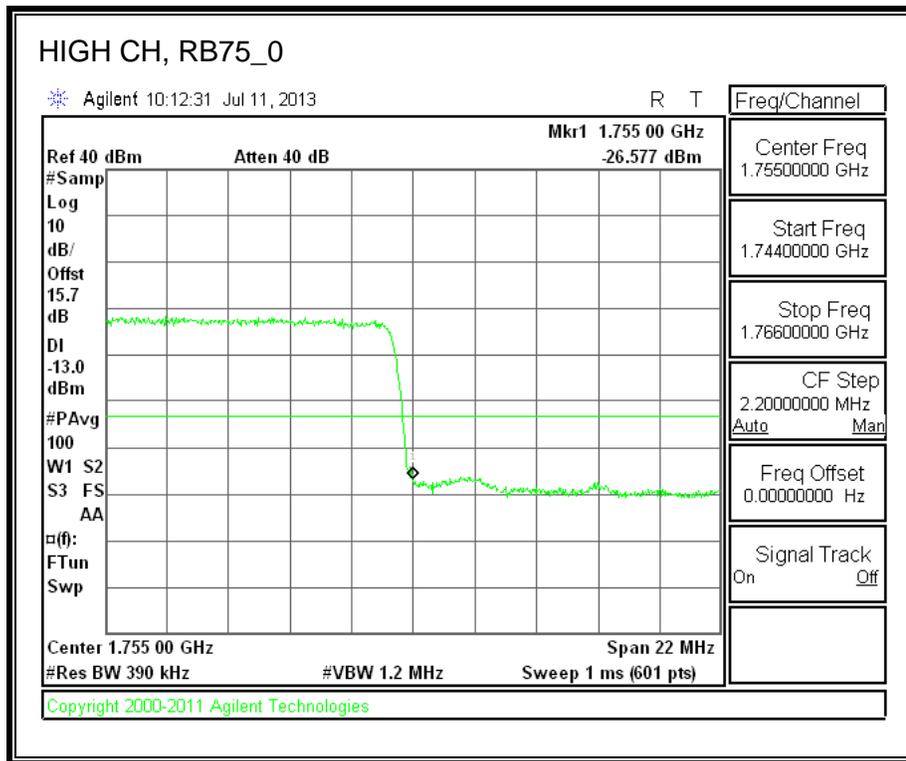
### 11.2.5. LTE BAND 4-15MHZ BANDWIDTH

#### LOW-QPSK

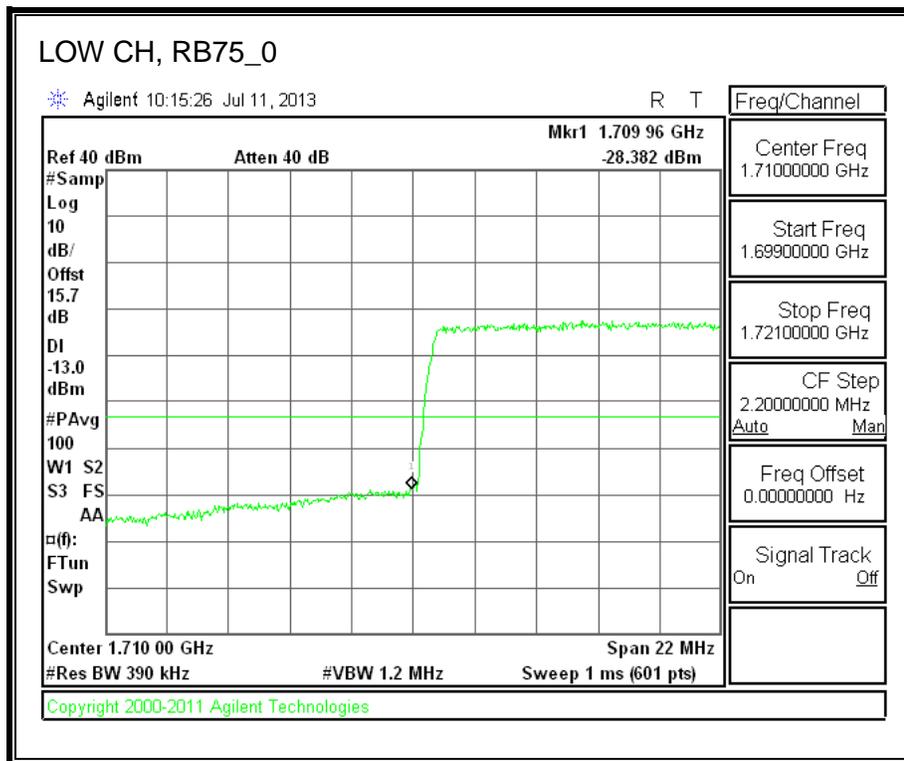




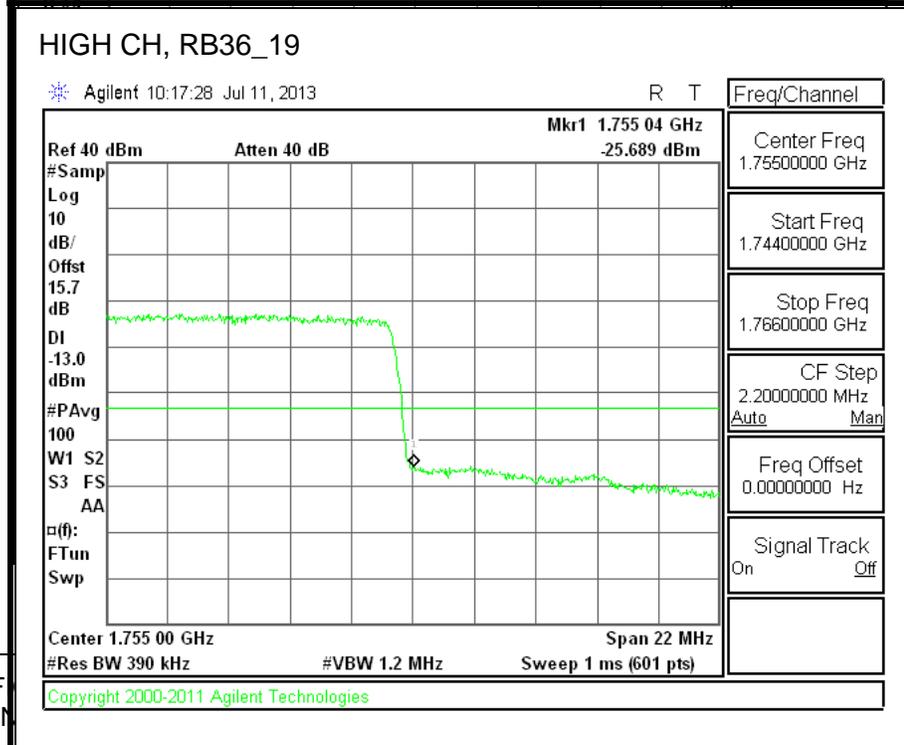
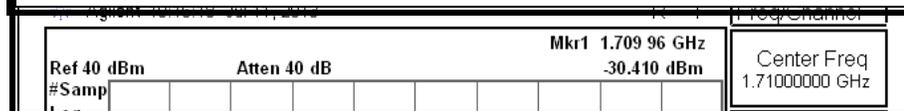
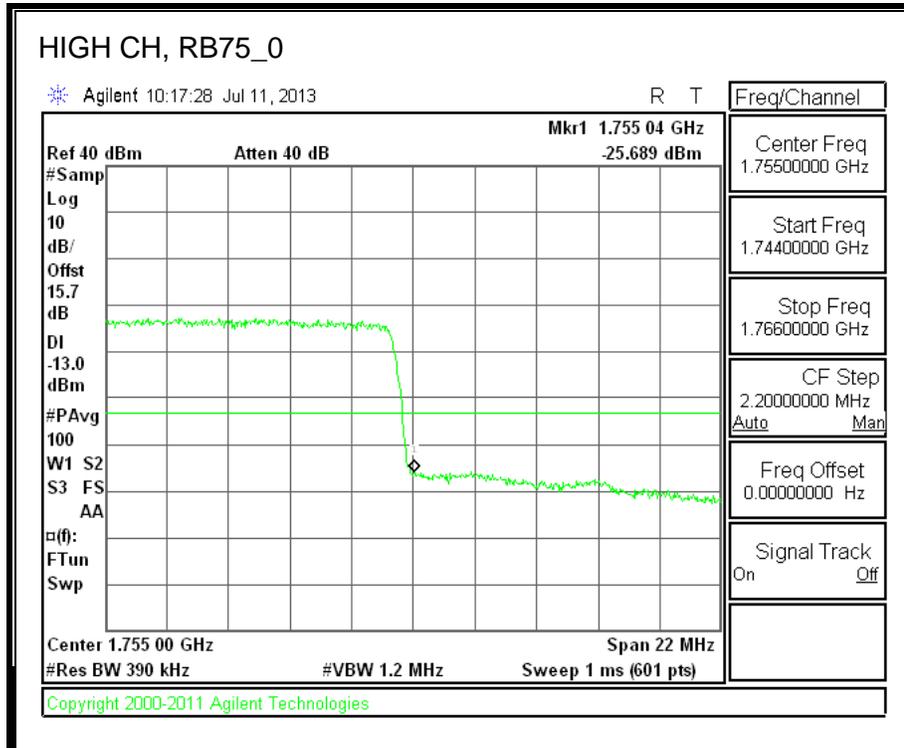
**HIGH-QPSK**



**LOW-16QAM**



**HIGH-16QAM**

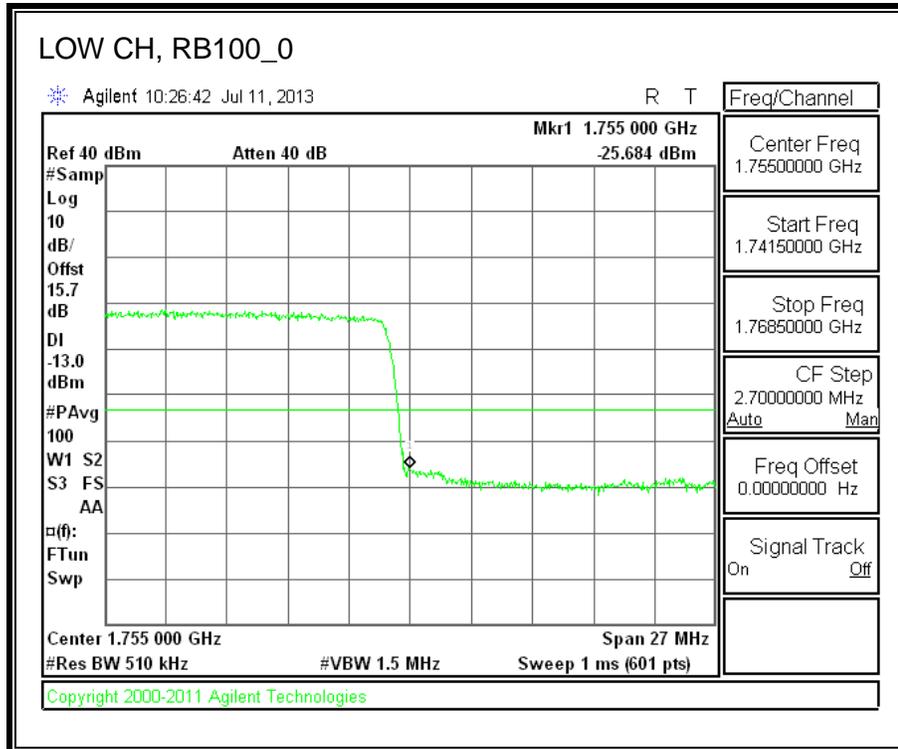


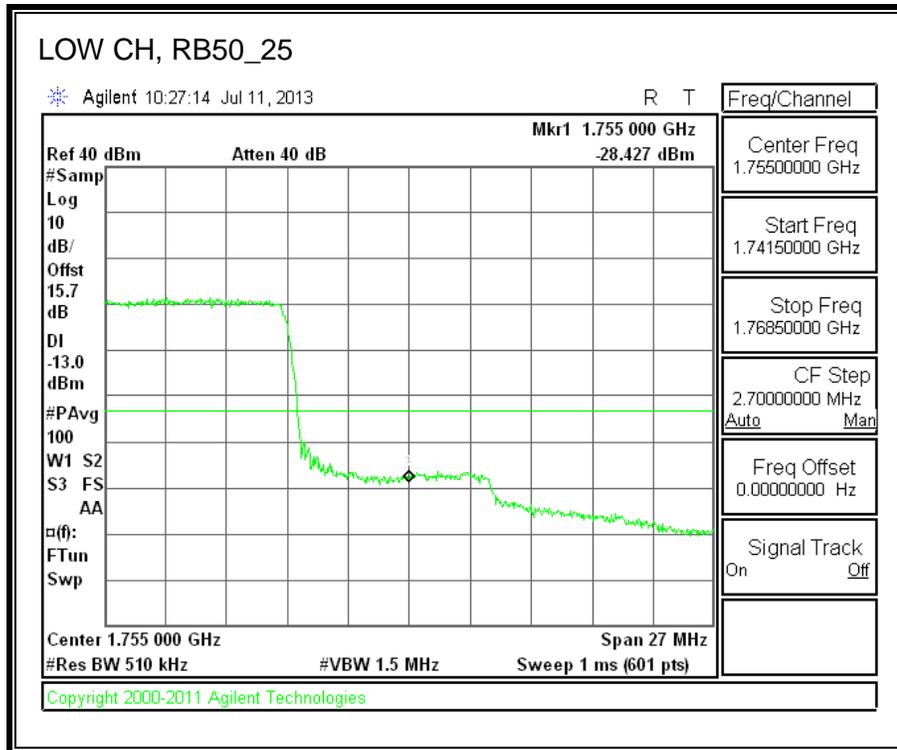
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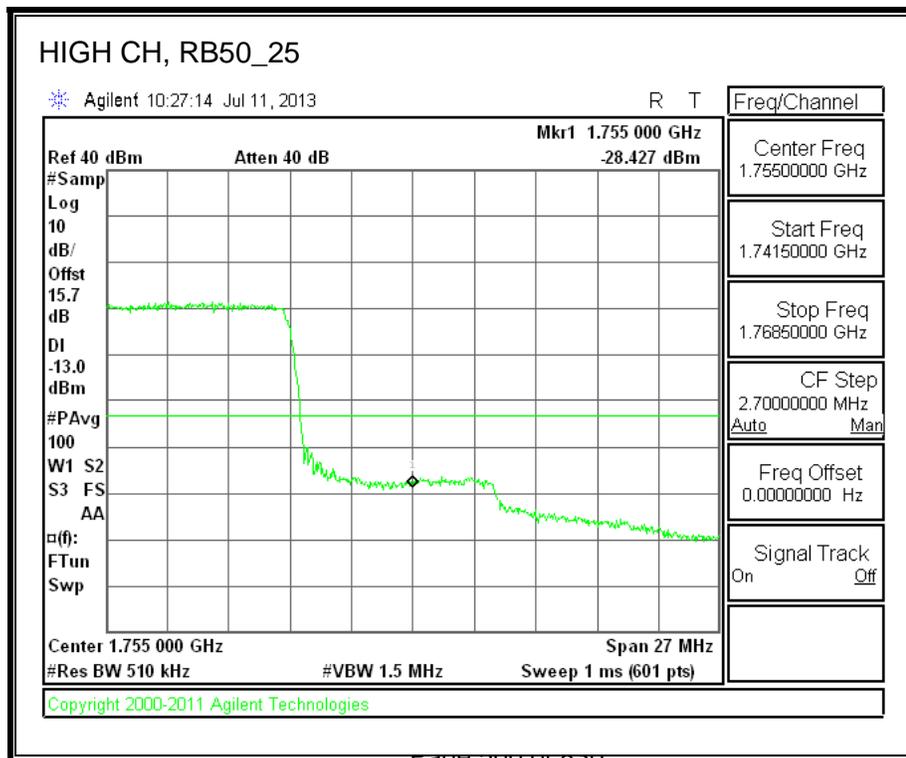
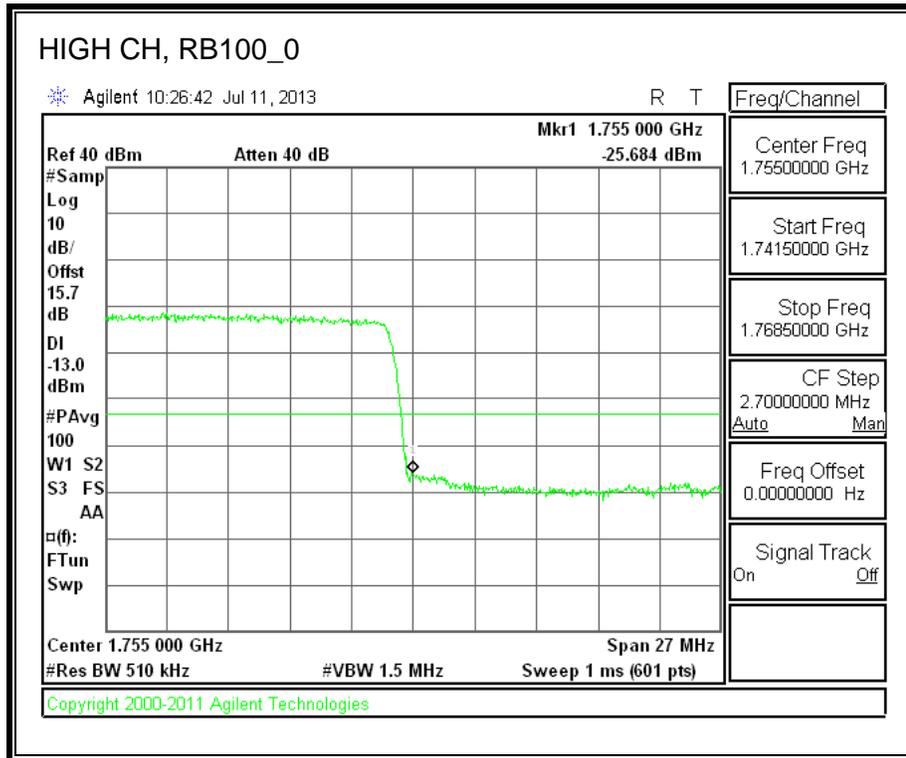
### 11.2.6. LTE BAND 4-20MHZ BANDWIDTH

#### LOW-QPSK

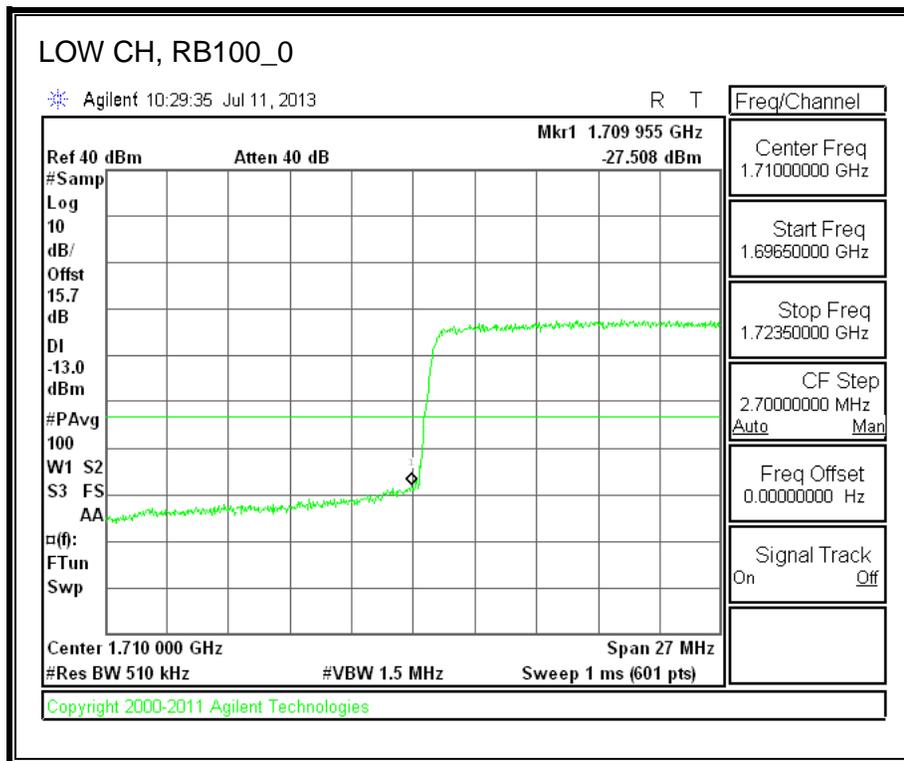




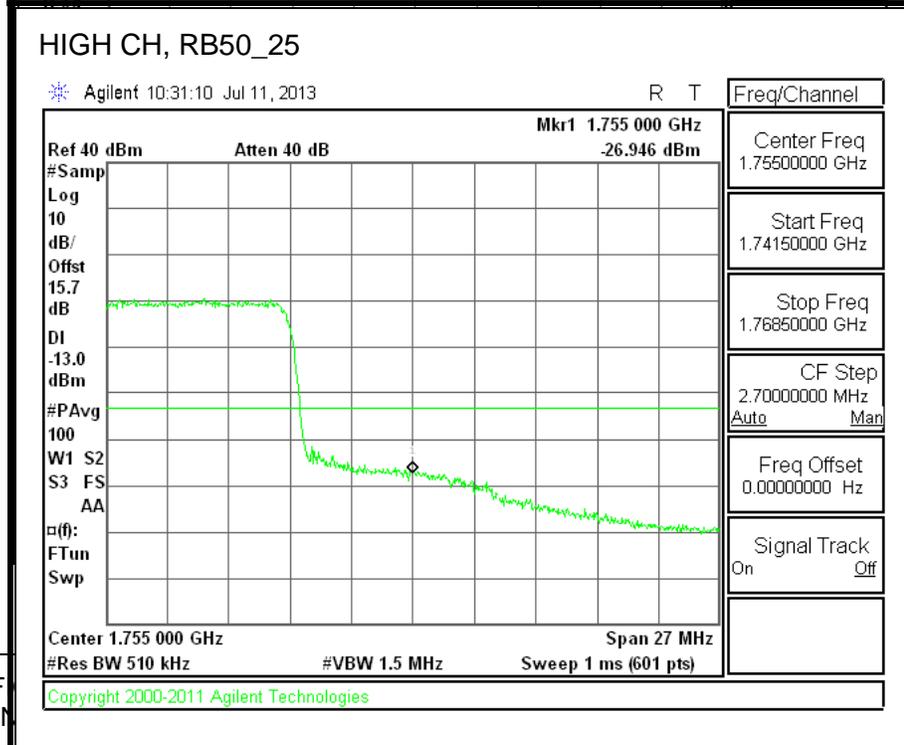
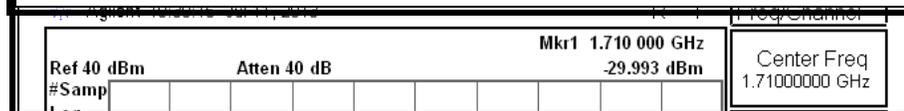
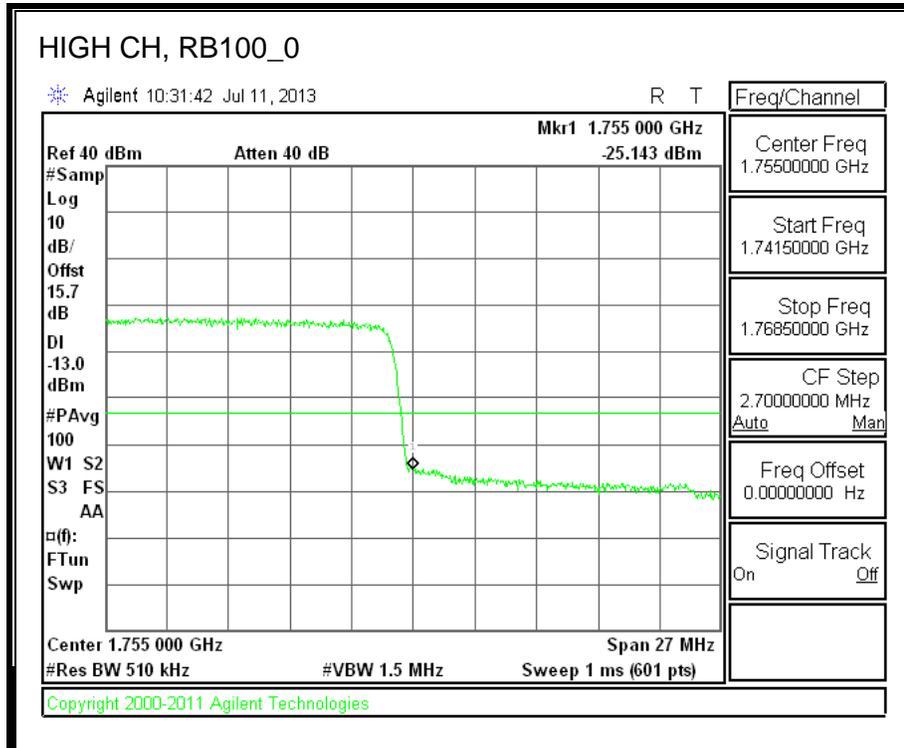
**HIGH-QPSK**



**LOW-16QAM**



**HIGH-16QAM**



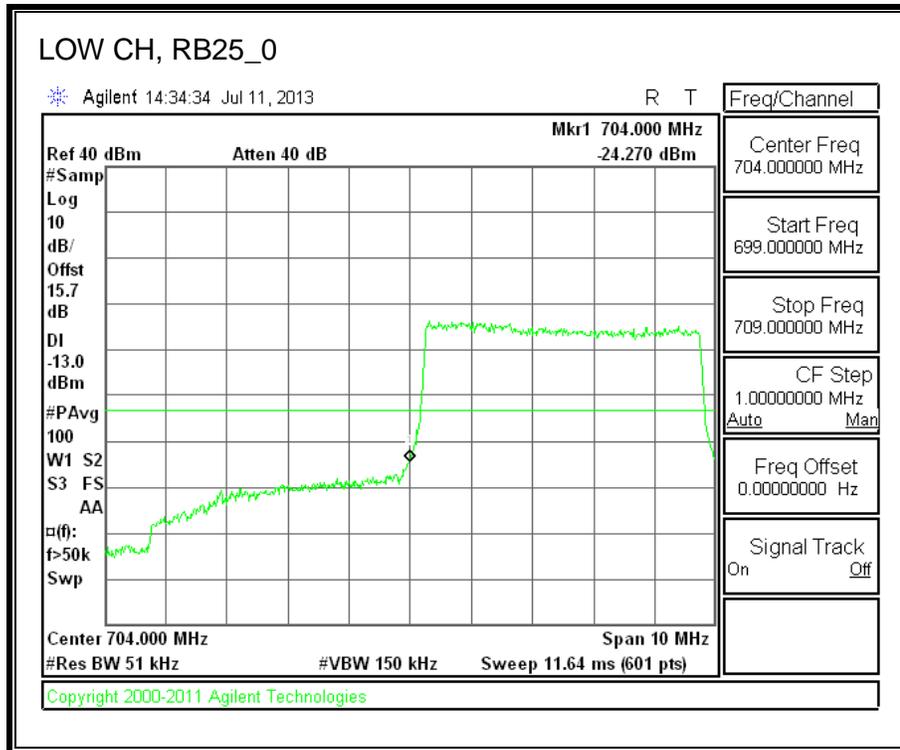
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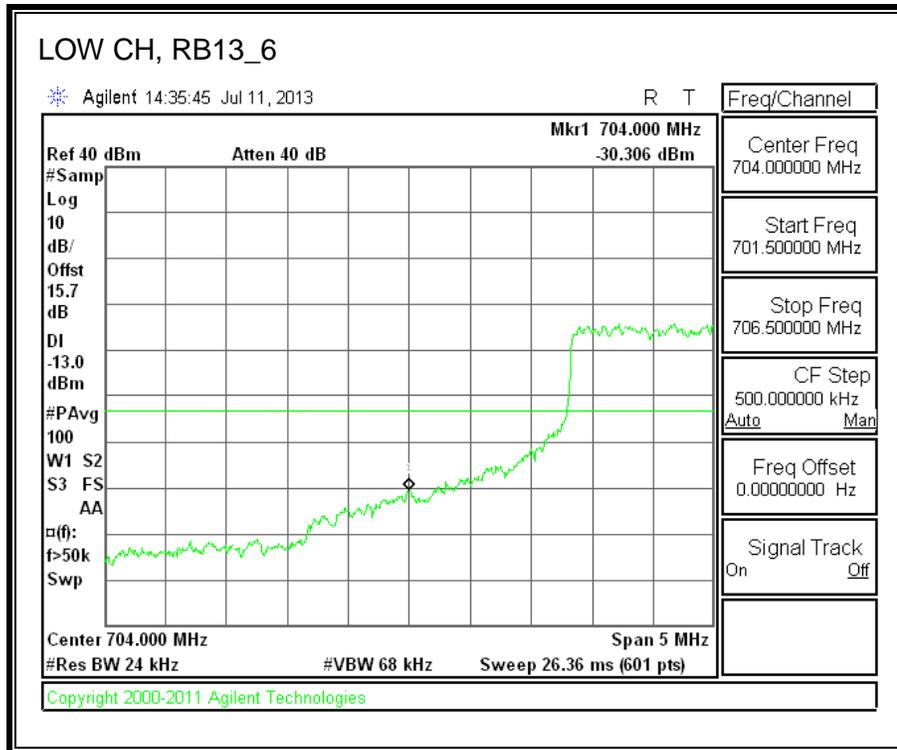
NO: CCSUP47011  
 X: (510) 661-0888

### 11.3. LTE BAND 17

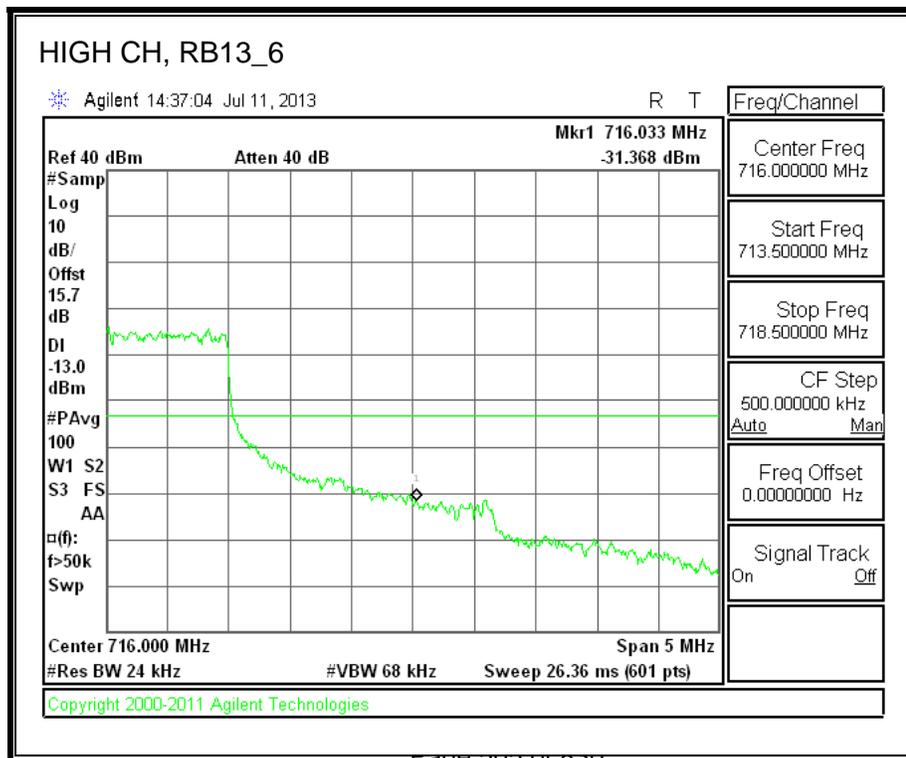
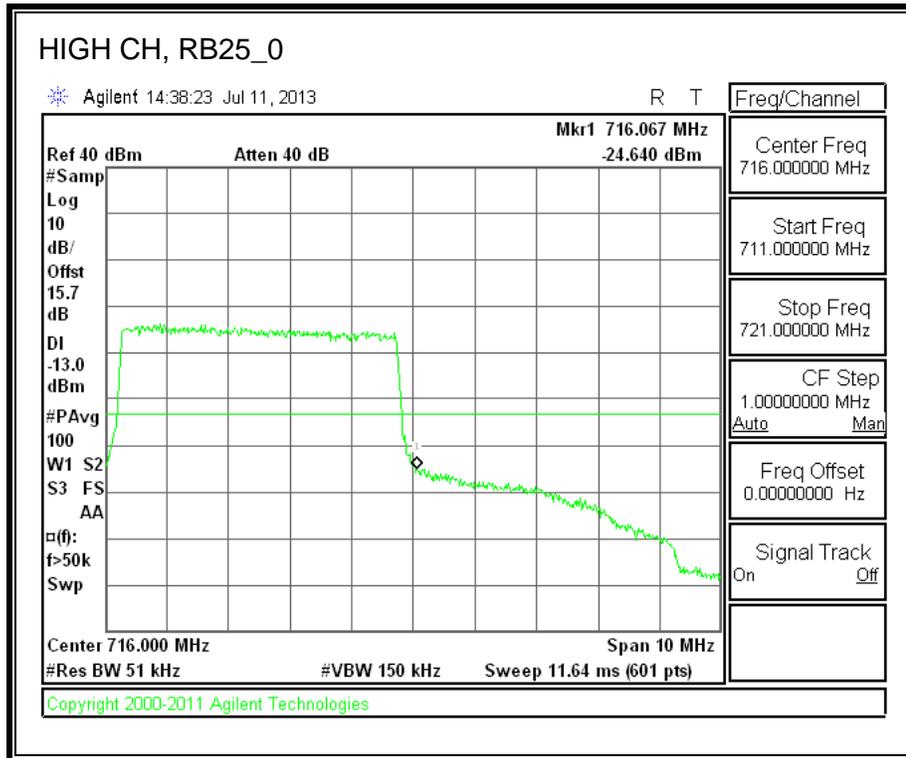
#### 11.3.1. LTE BAND 17-5MHz BANDWIDTH

##### LOW-QPSK

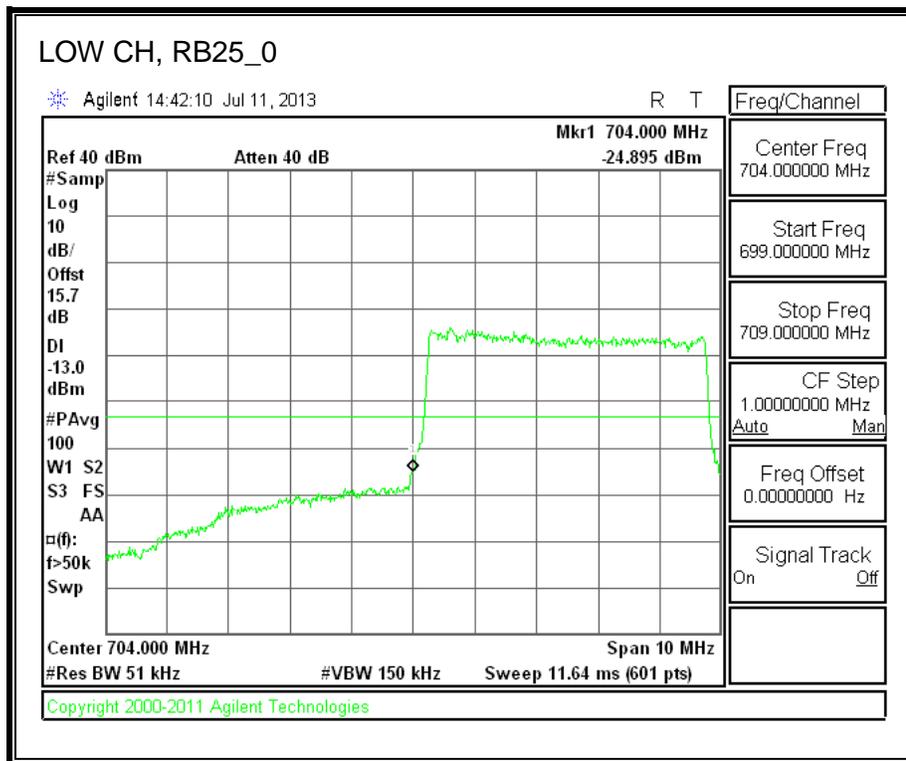




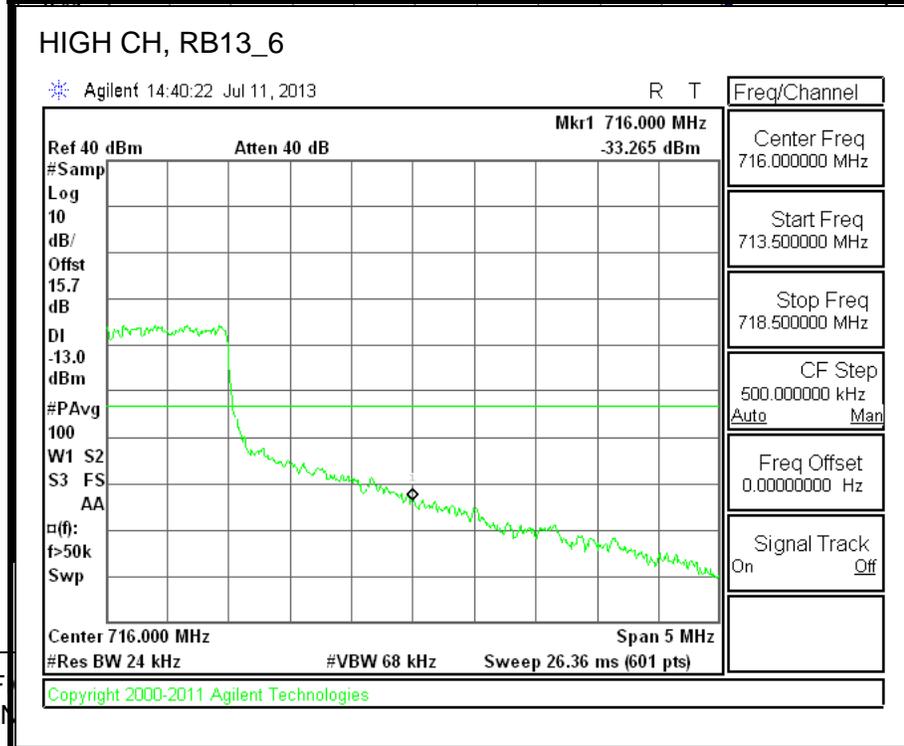
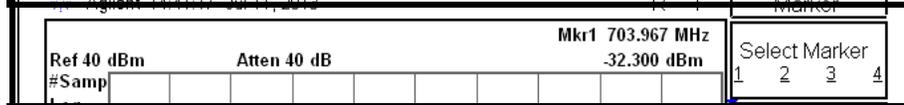
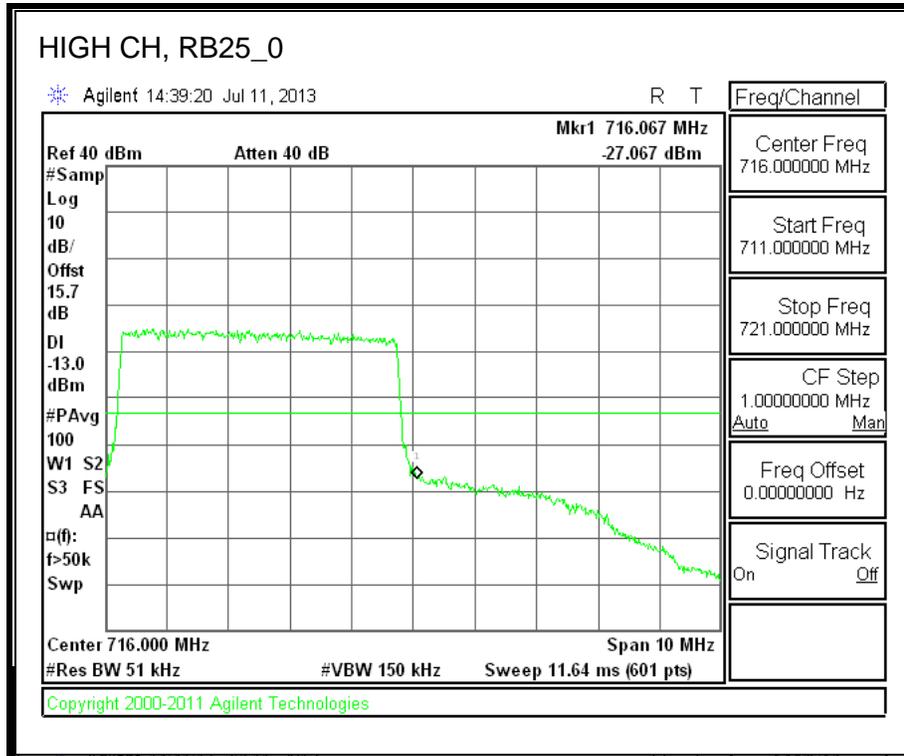
**HIGH-QPSK**



**LOW-16QAM**



**HIGH-16QAM**

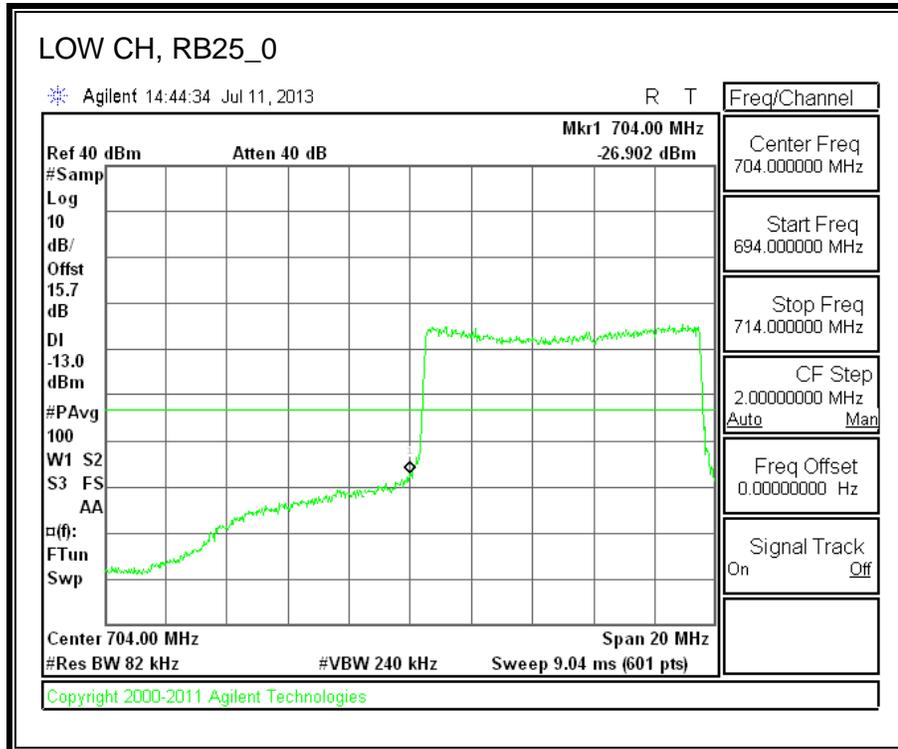


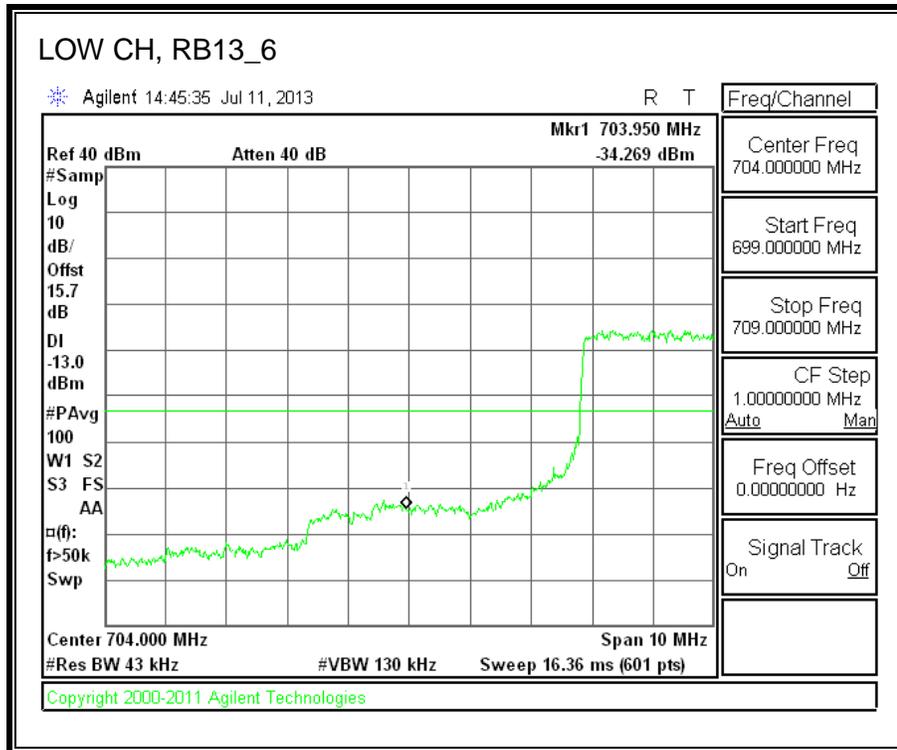
UL VERIF  
 47173 BEN

NO: CCSUP47011  
 X: (510) 661-0888

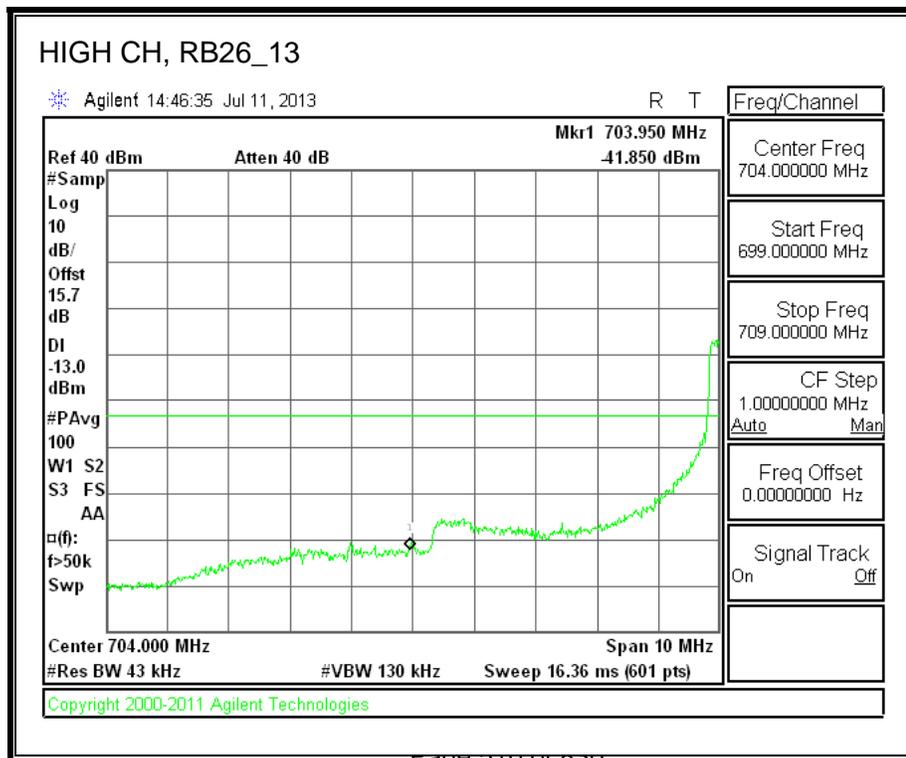
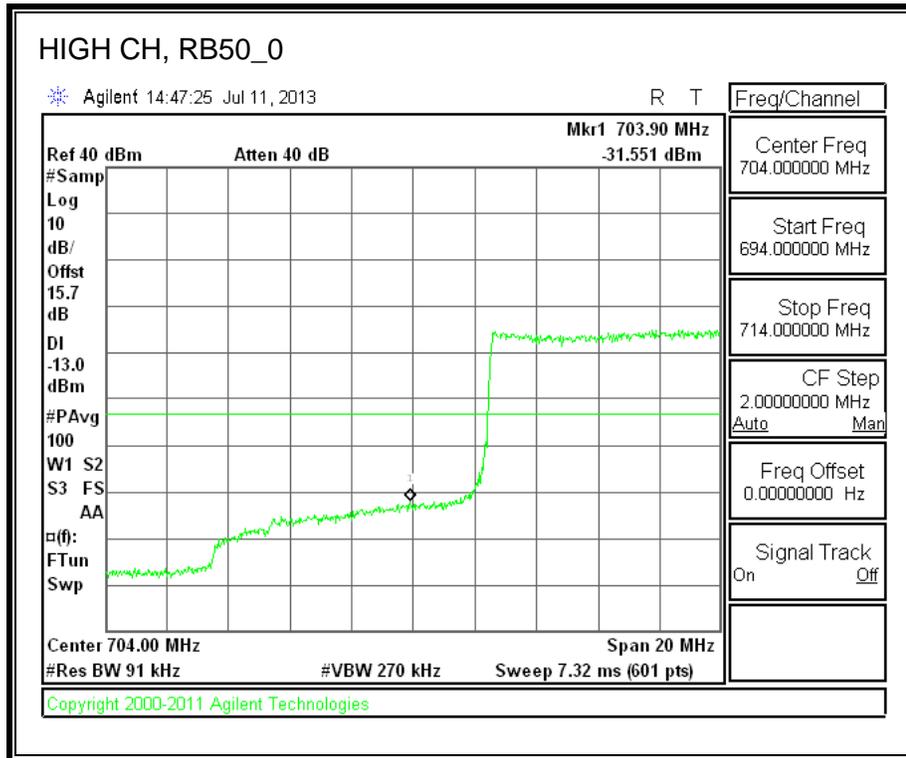
### 11.3.2. LTE BAND 17-10MHz BANDWIDTH

#### LOW-QPSK

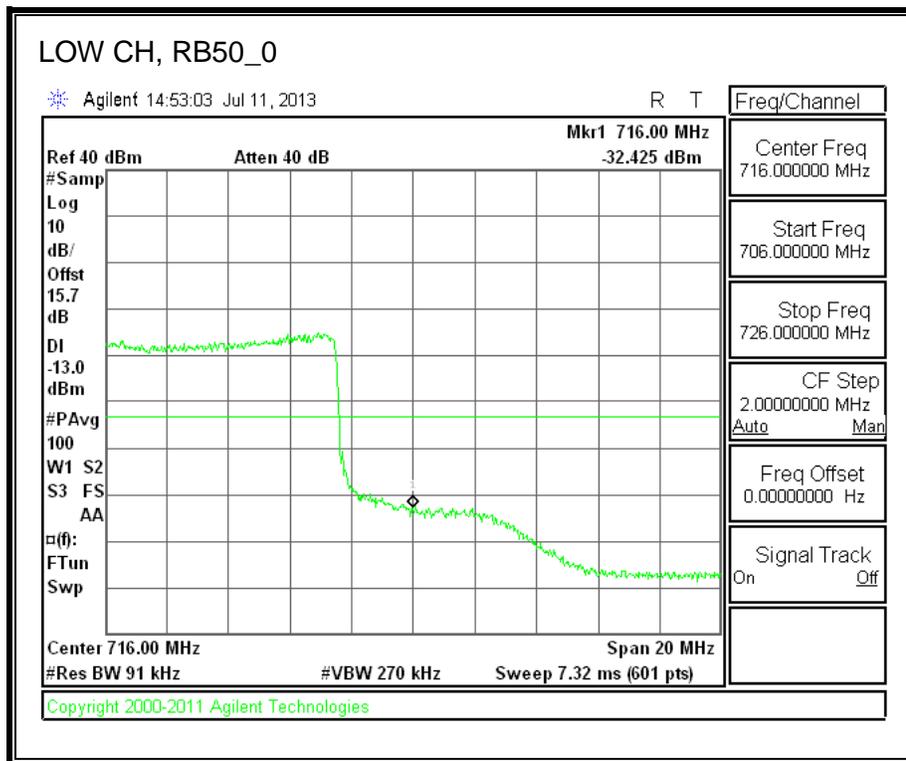




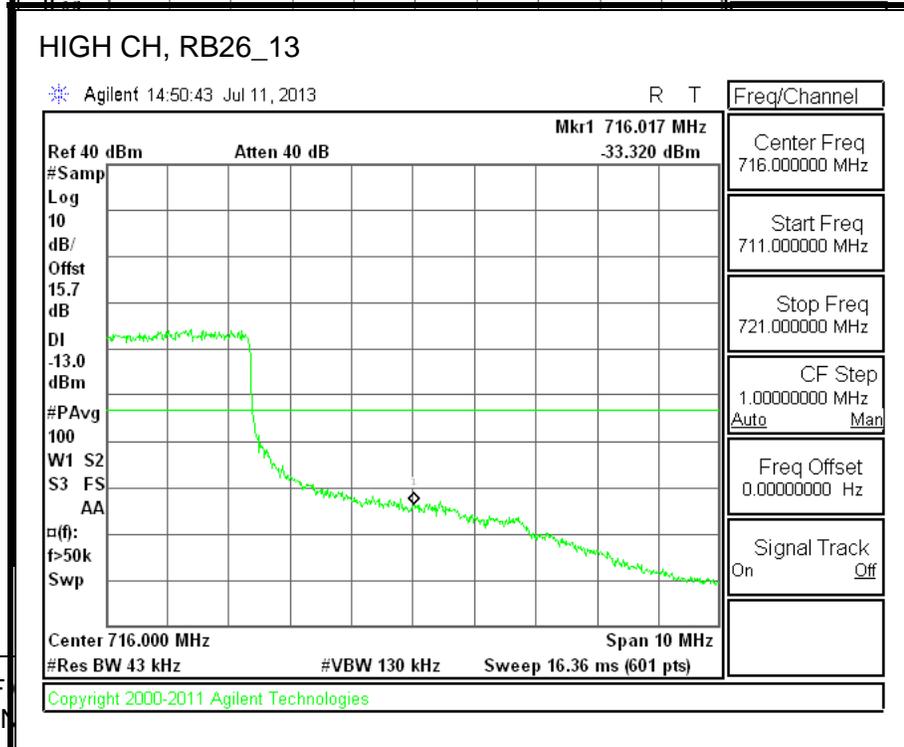
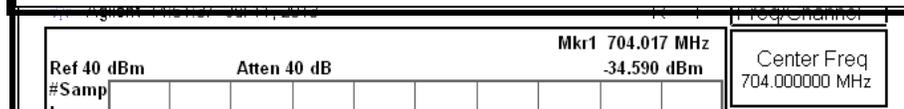
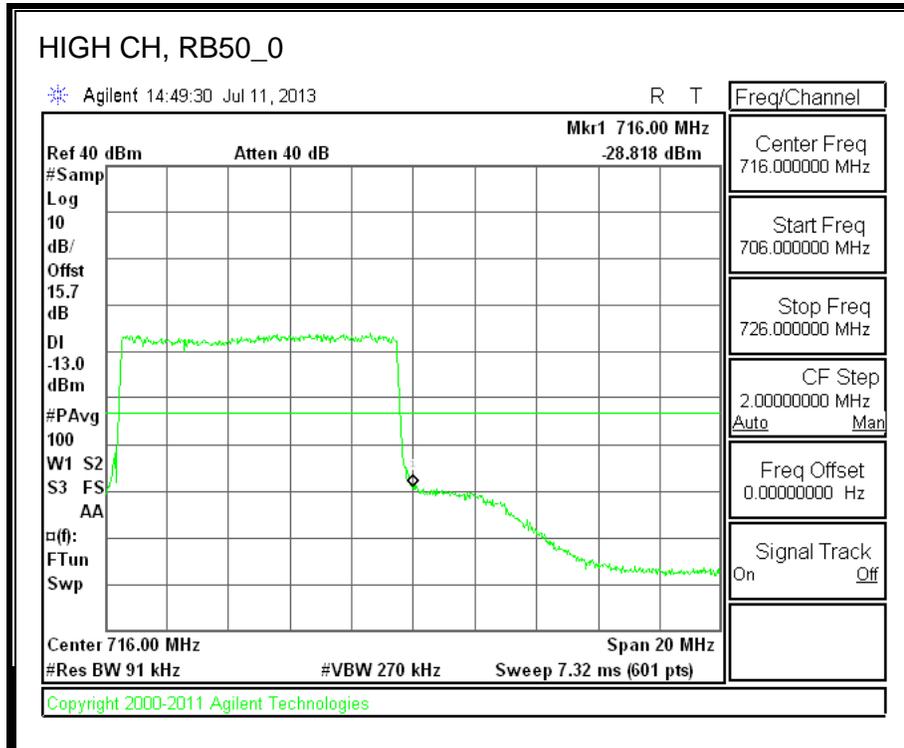
**HIGH-QPSK**



**LOW-16QAM**



**HIGH-16QAM**



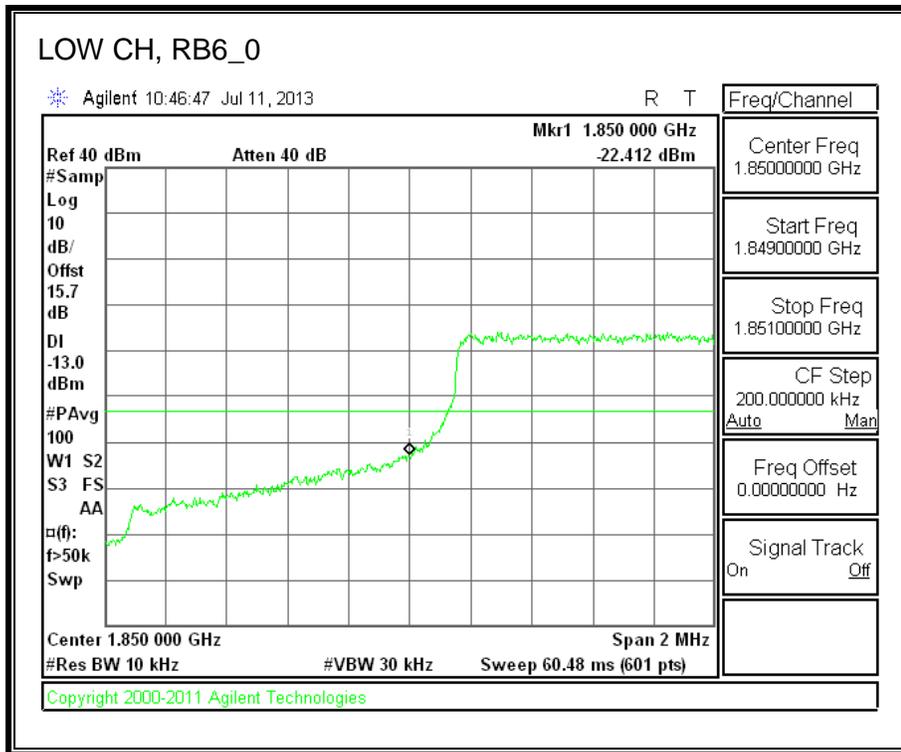
UL VERIF  
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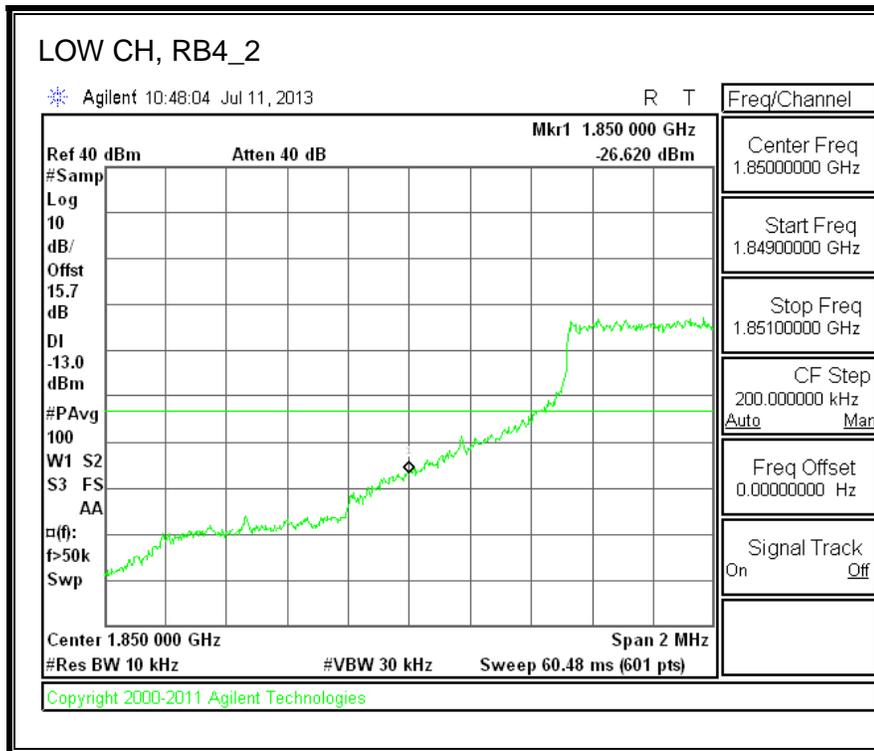
NO: CCSUP47011  
 X: (510) 661-0888

## 11.4. LTE BAND 25

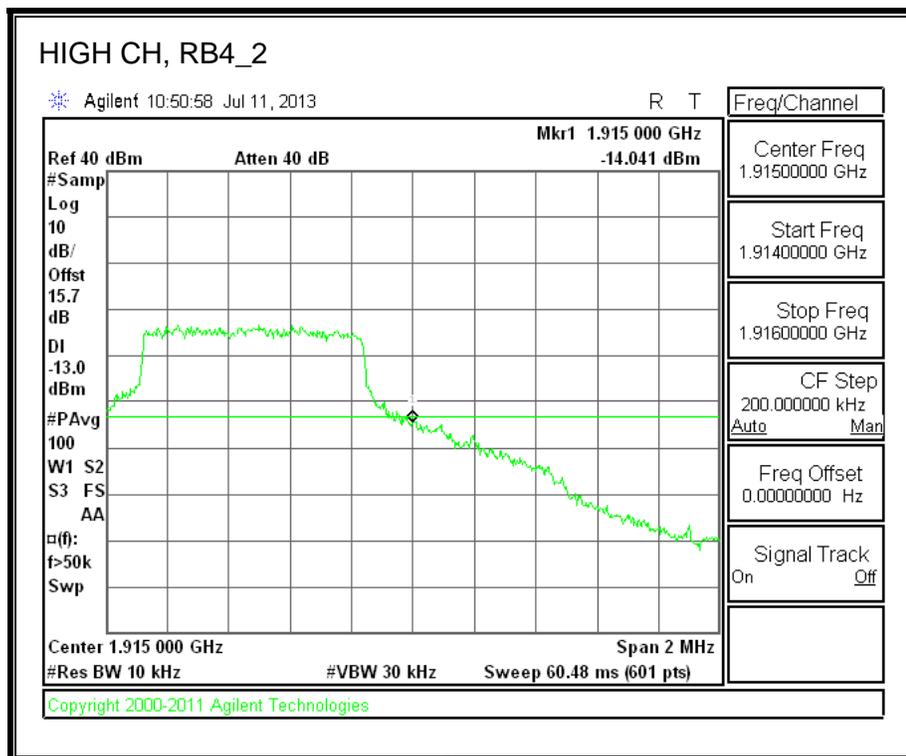
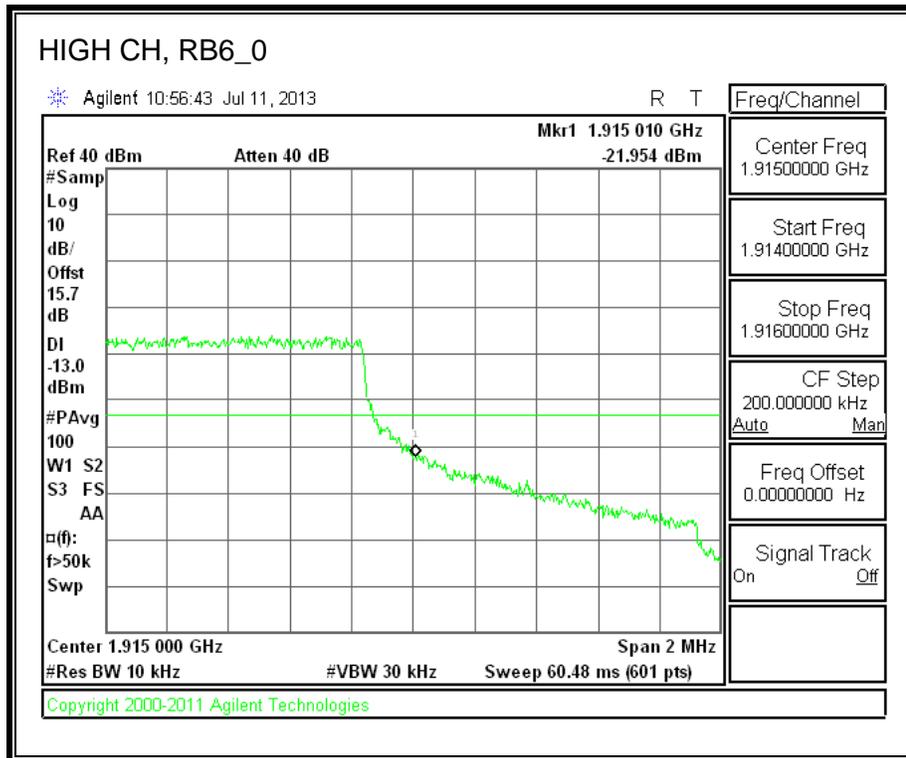
### 11.4.1. LTE BAND 25-1.4MHZ BANDWIDTH

#### LOW-QPSK

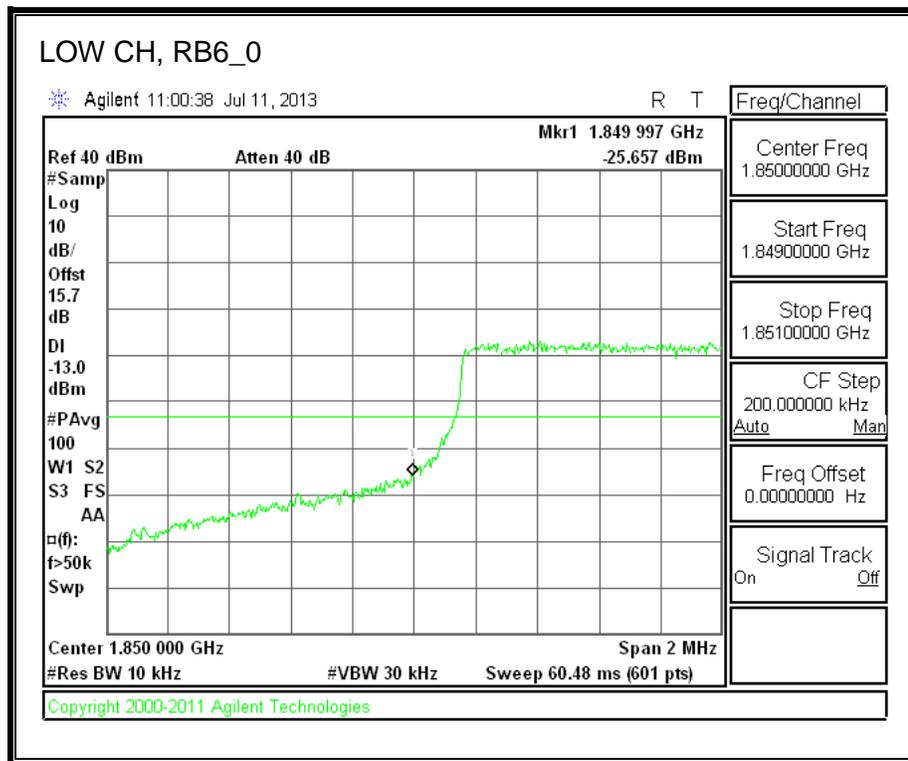




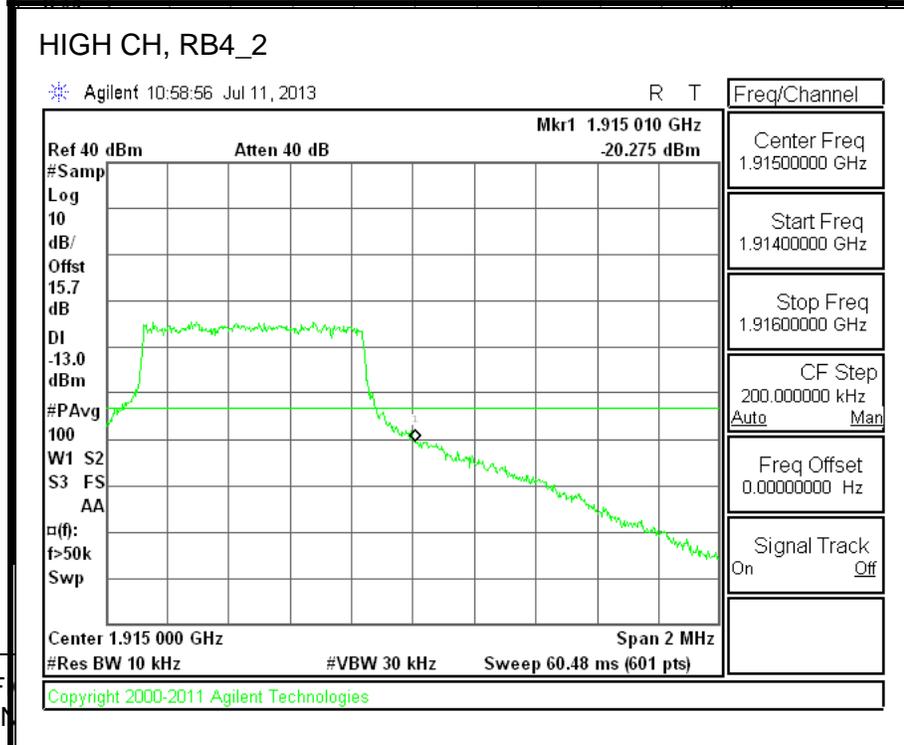
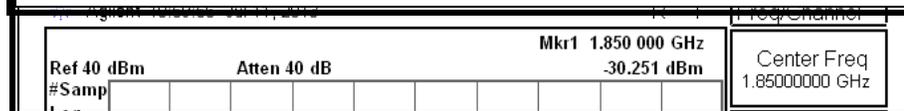
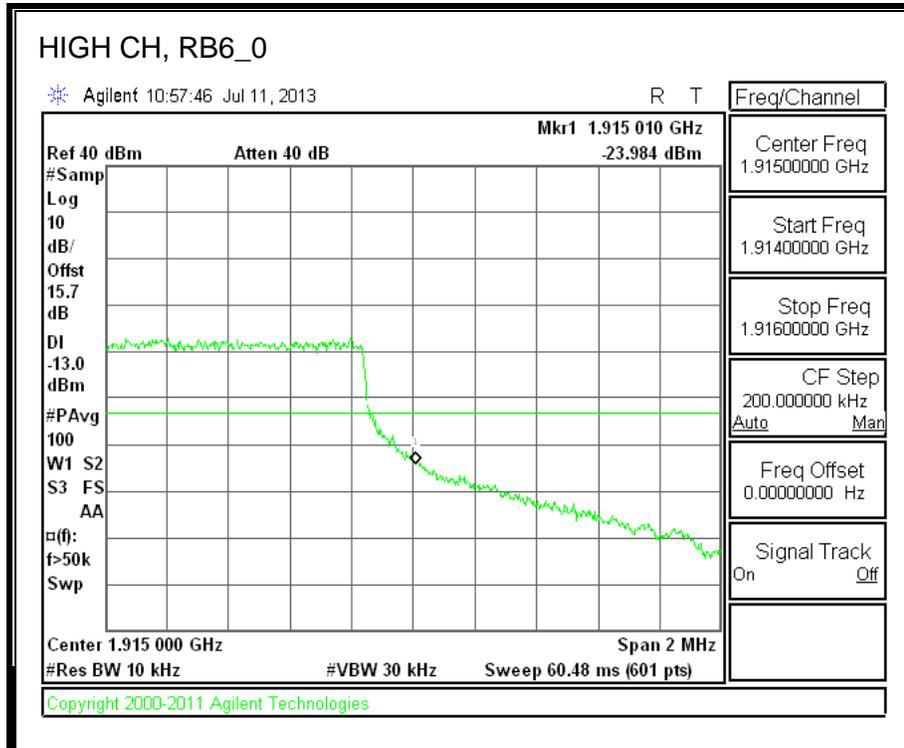
**HIGH-QPSK**



**LOW-16QAM**



**HIGH-16QAM**

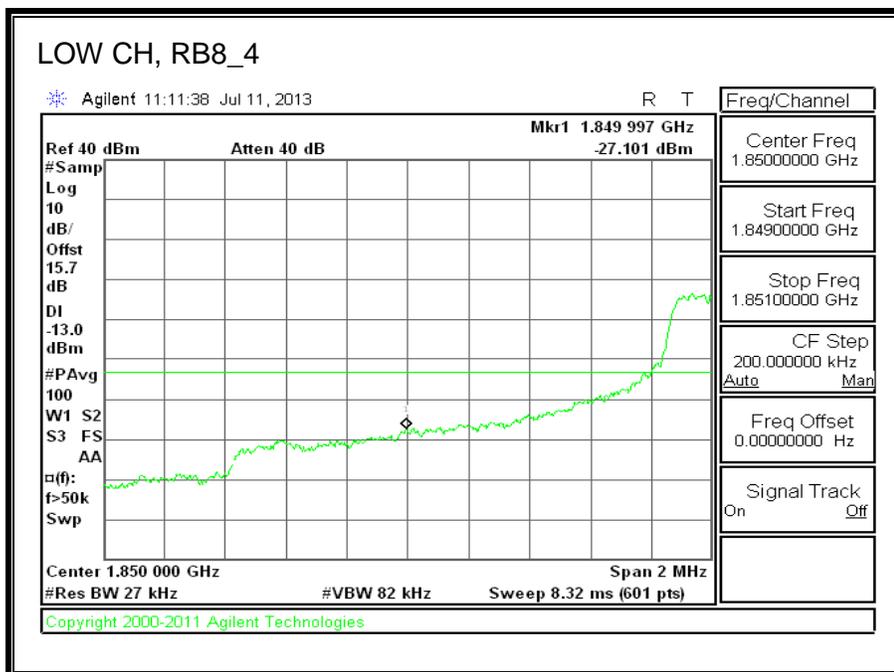
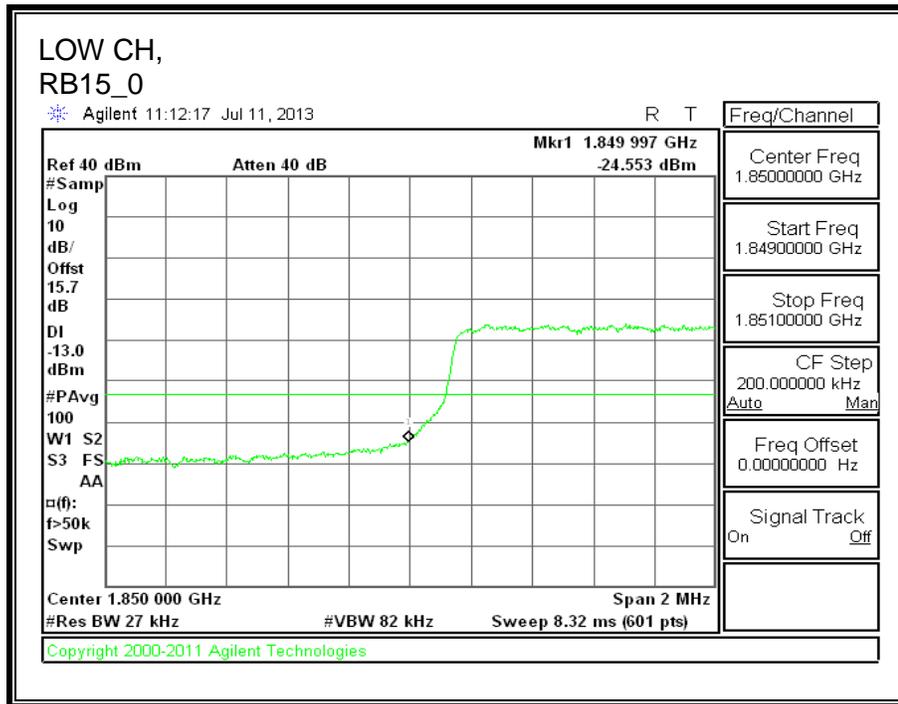


UL VERIF  
 47173 BEN

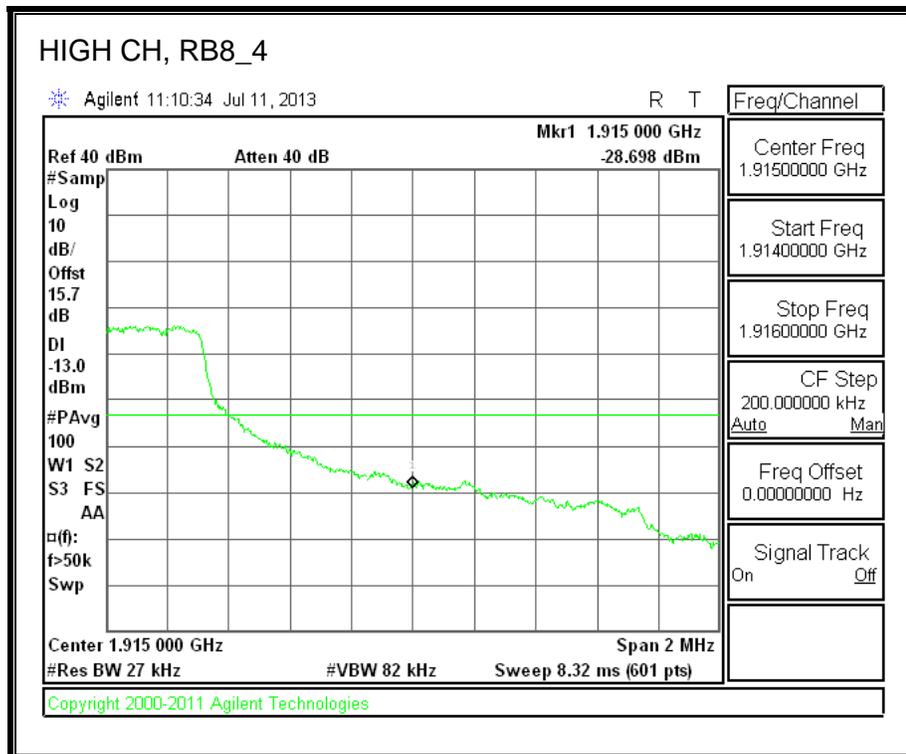
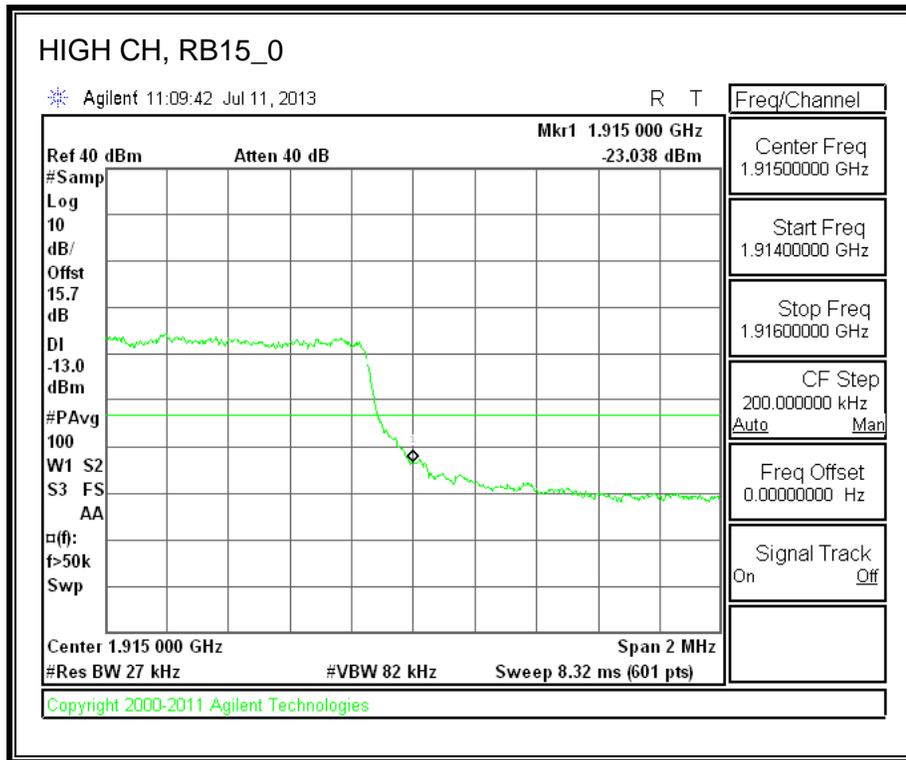
NO: CCSUP47011  
 X: (510) 661-0888

### 11.4.2. LTE BAND 25-3MHZ BANDWIDTH

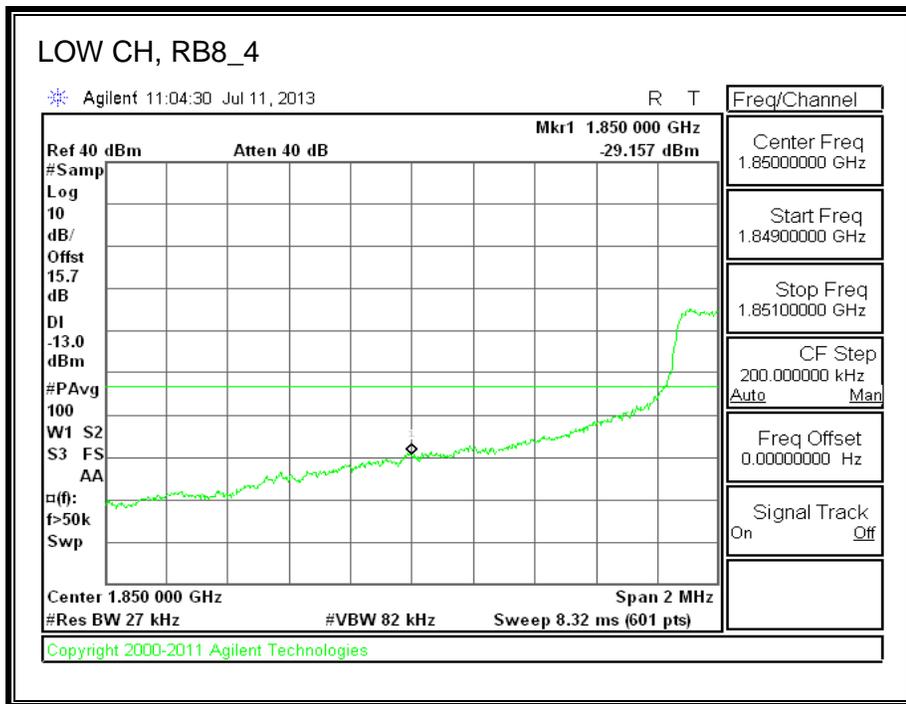
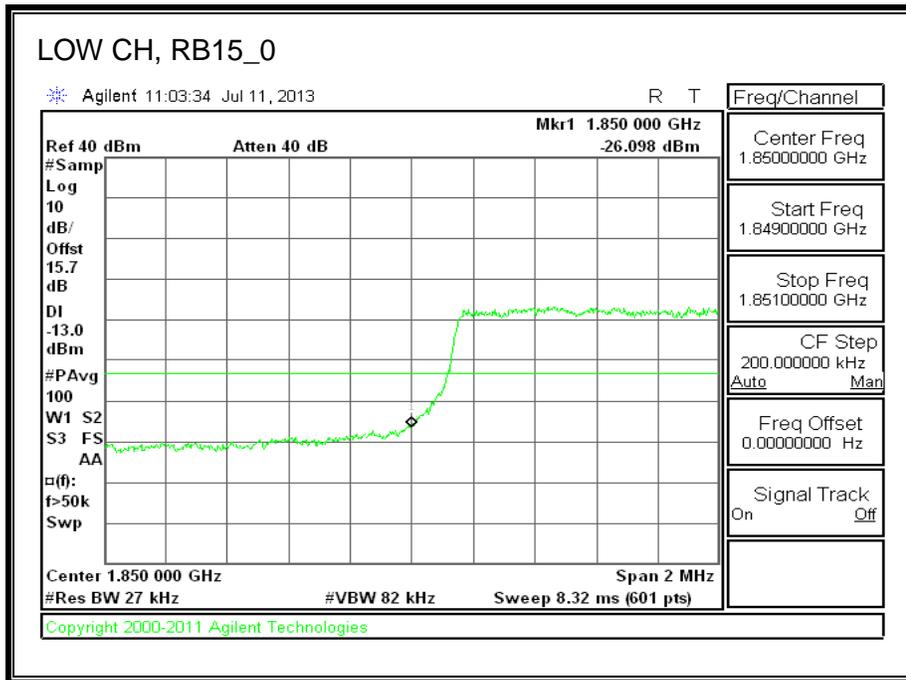
#### LOW-QPSK



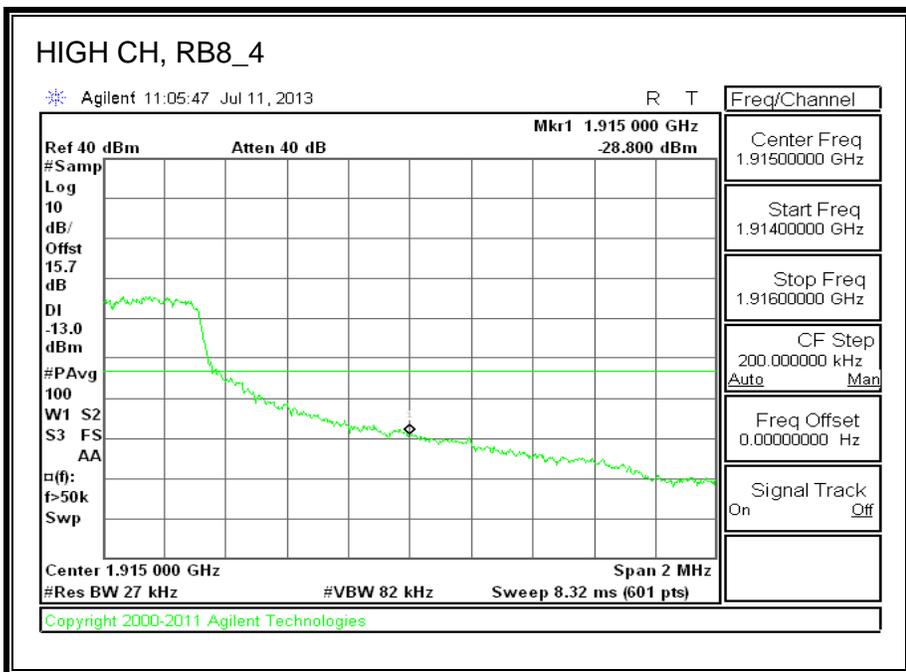
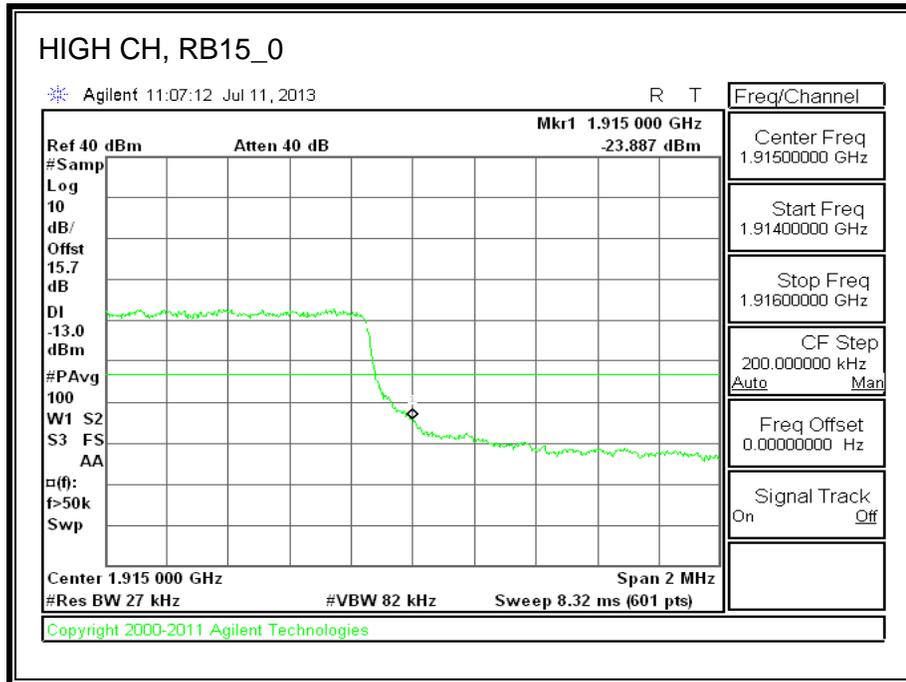
**HIGH-QPSK**



**LOW-16QAM**

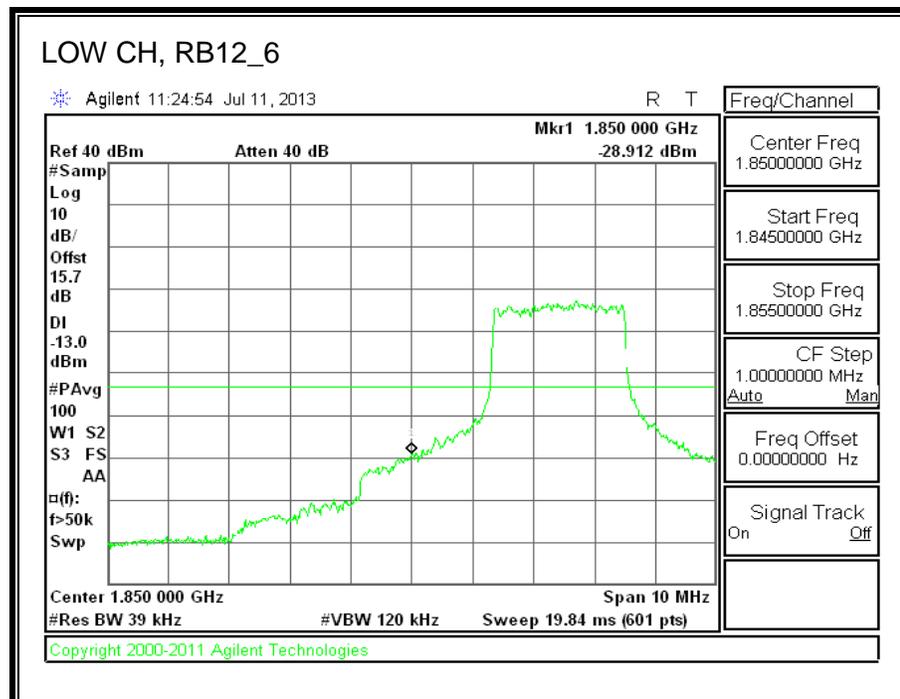
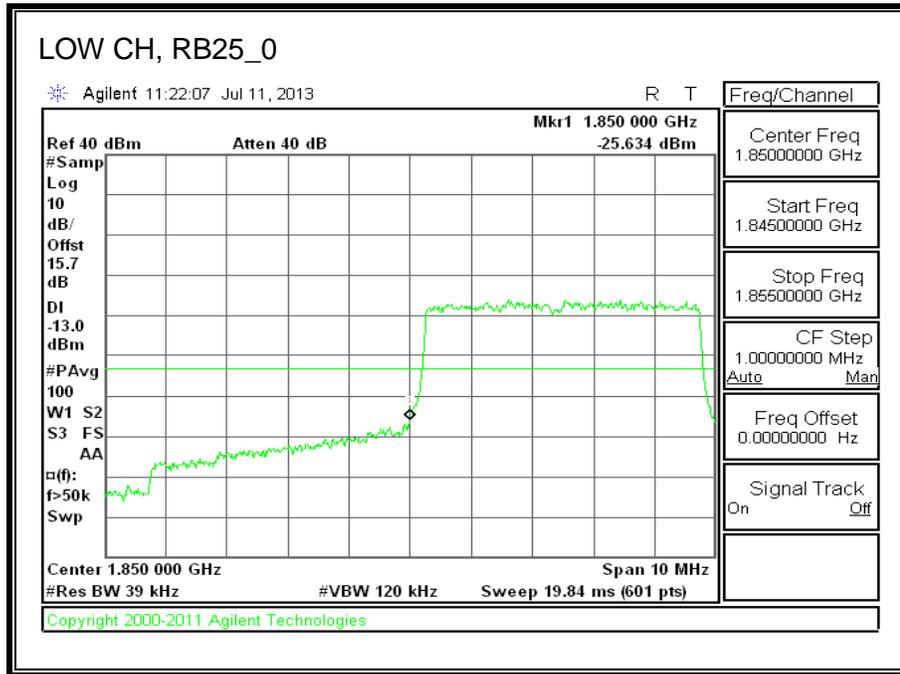


**HIGH-16QAM**

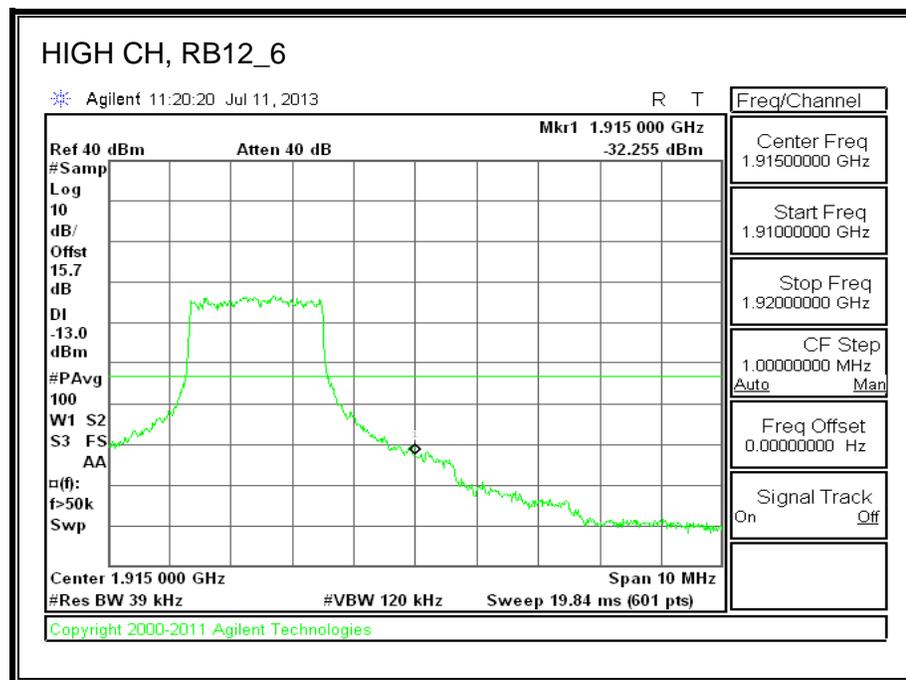
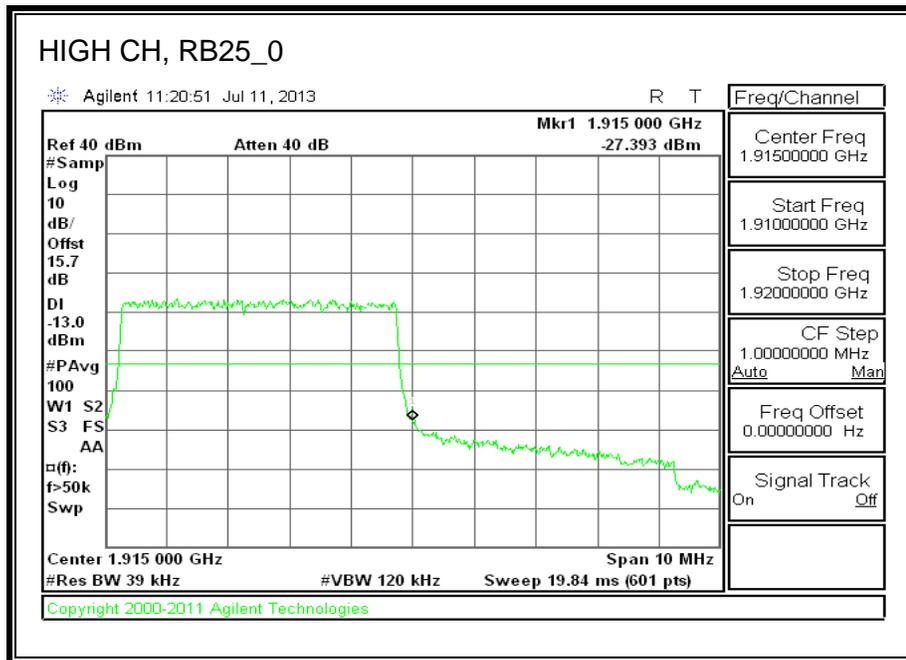


### 11.4.3. LTE BAND 25-5MHZ BANDWIDTH

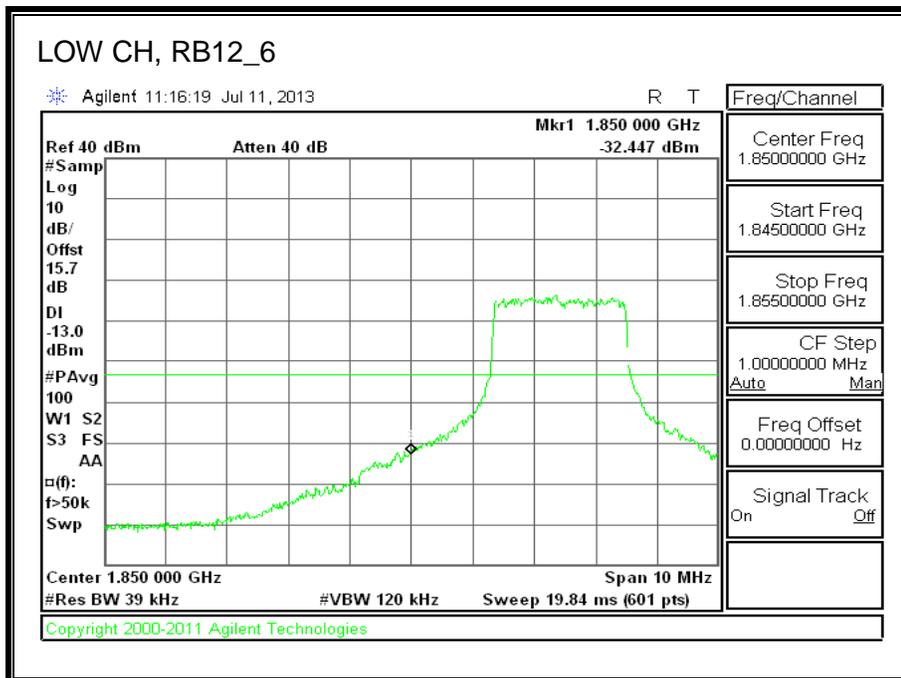
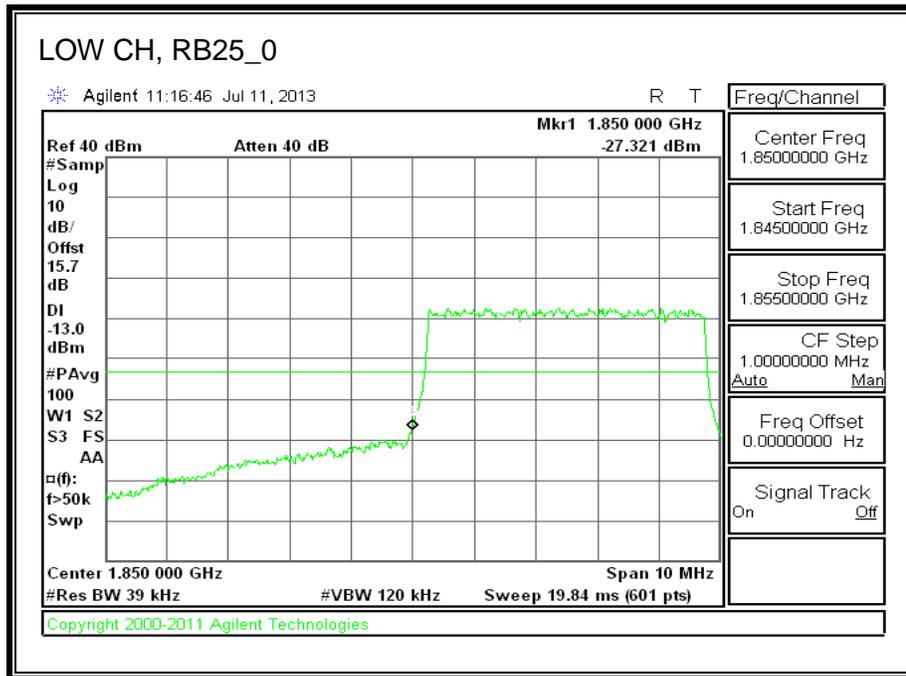
#### LOW-QPSK



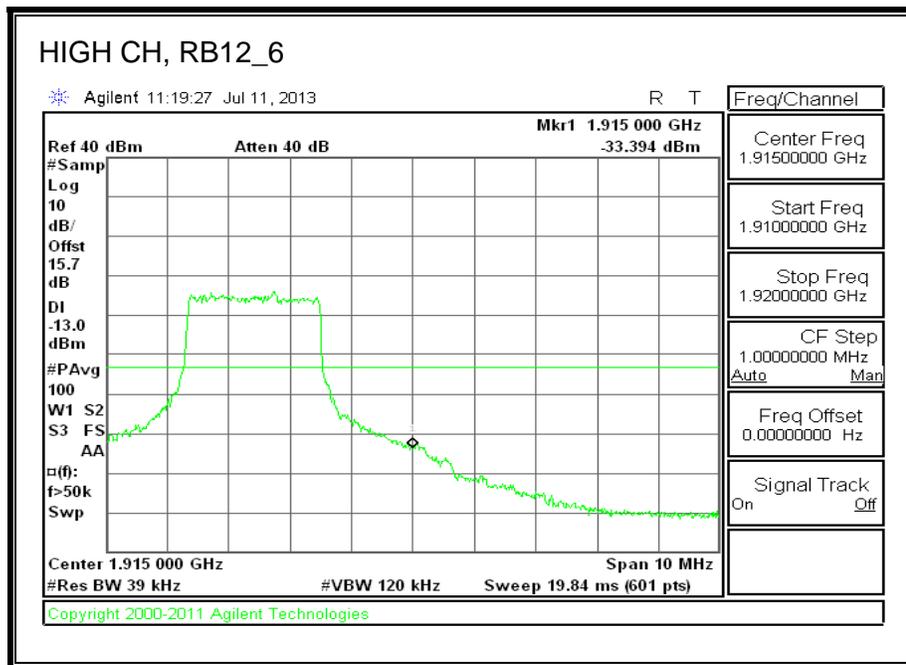
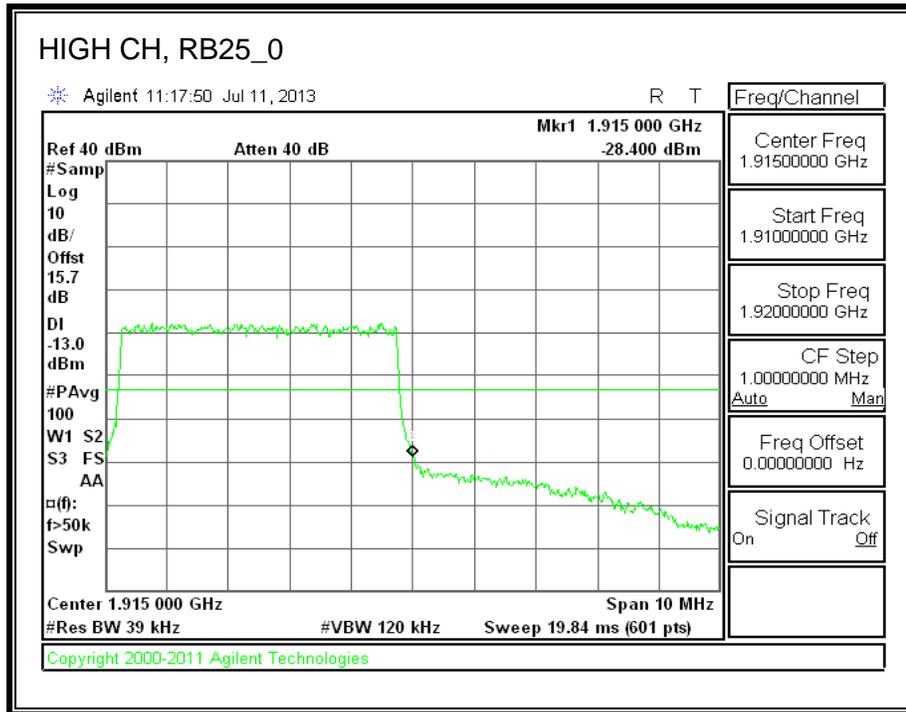
**HIGH-QPSK**



**LOW-16QAM**

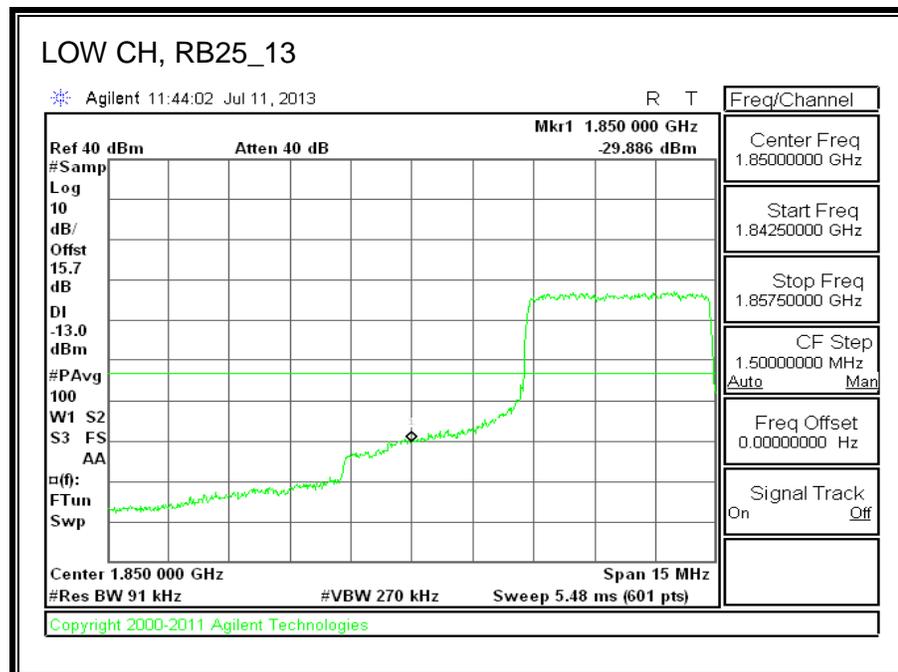
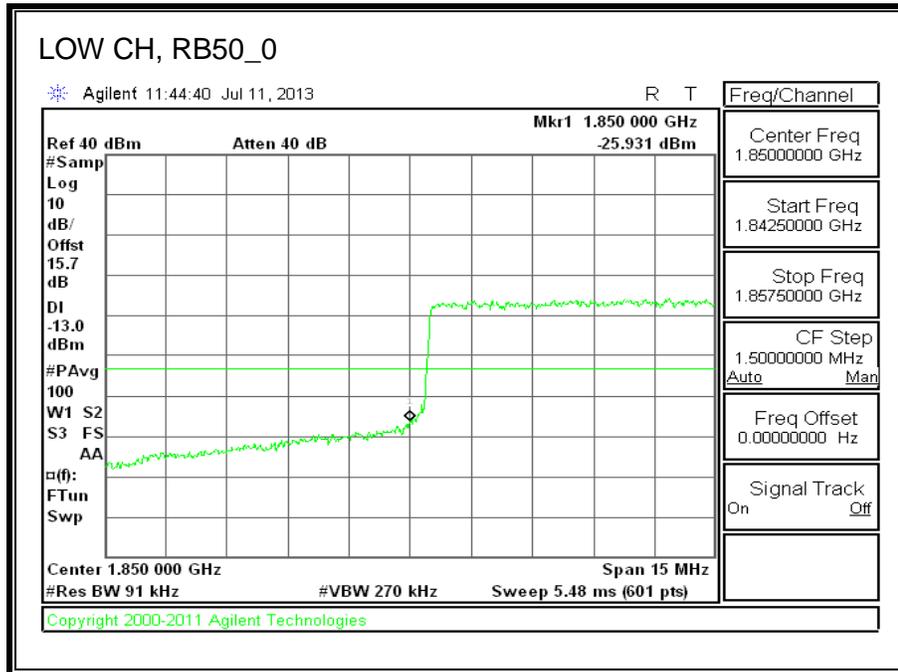


**HIGH-16QAM**

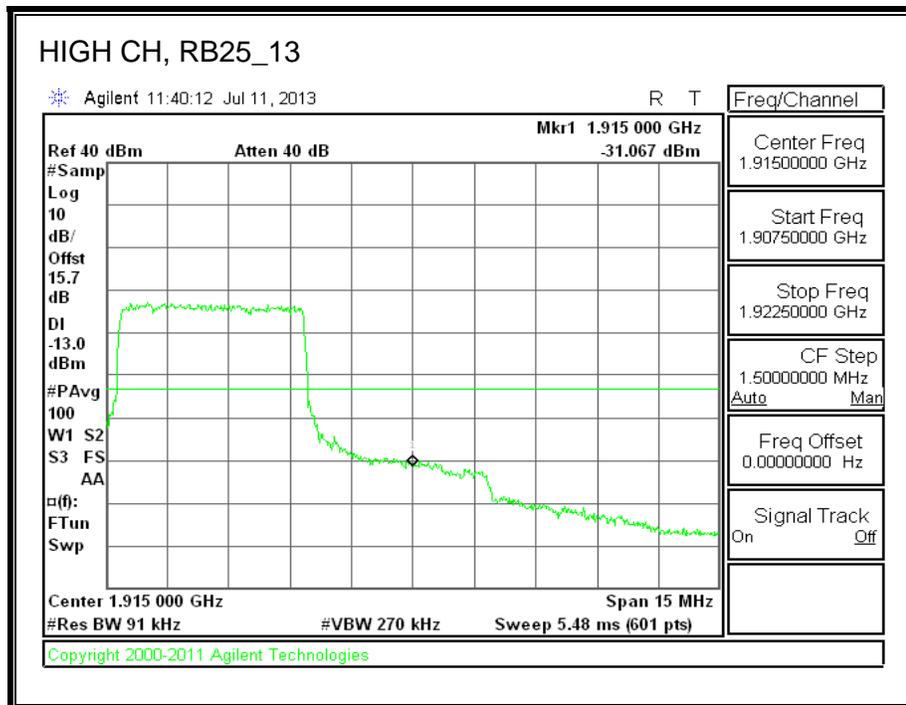
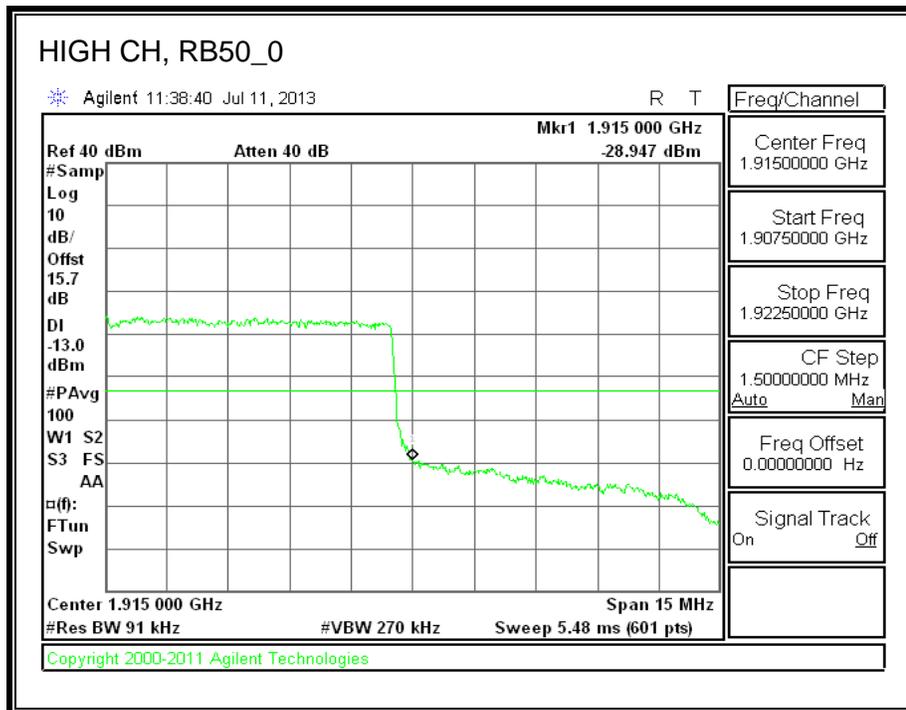


### 11.4.4. LTE BAND 25-10MHZ BANDWIDTH

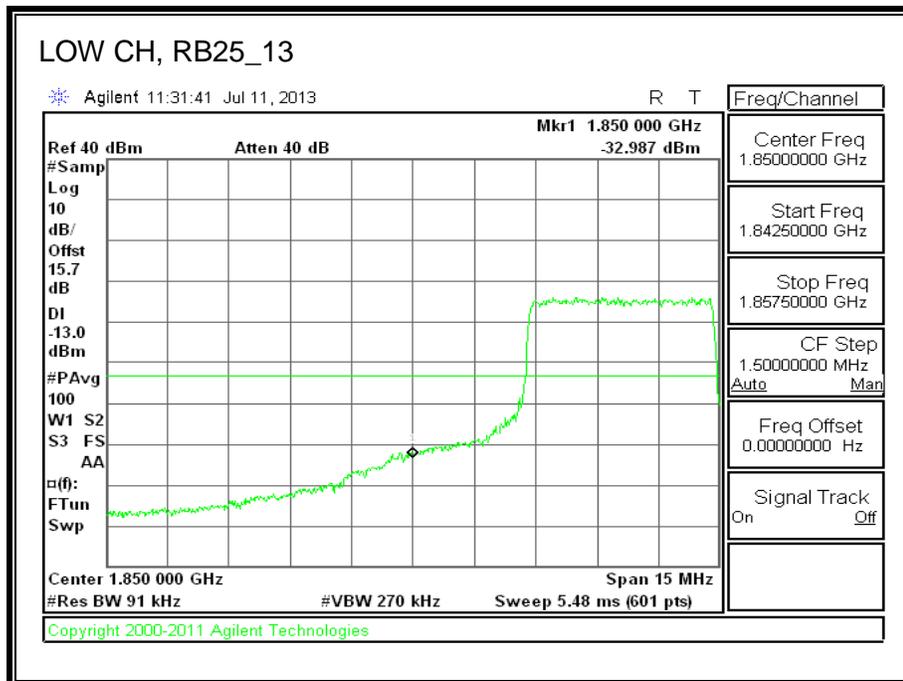
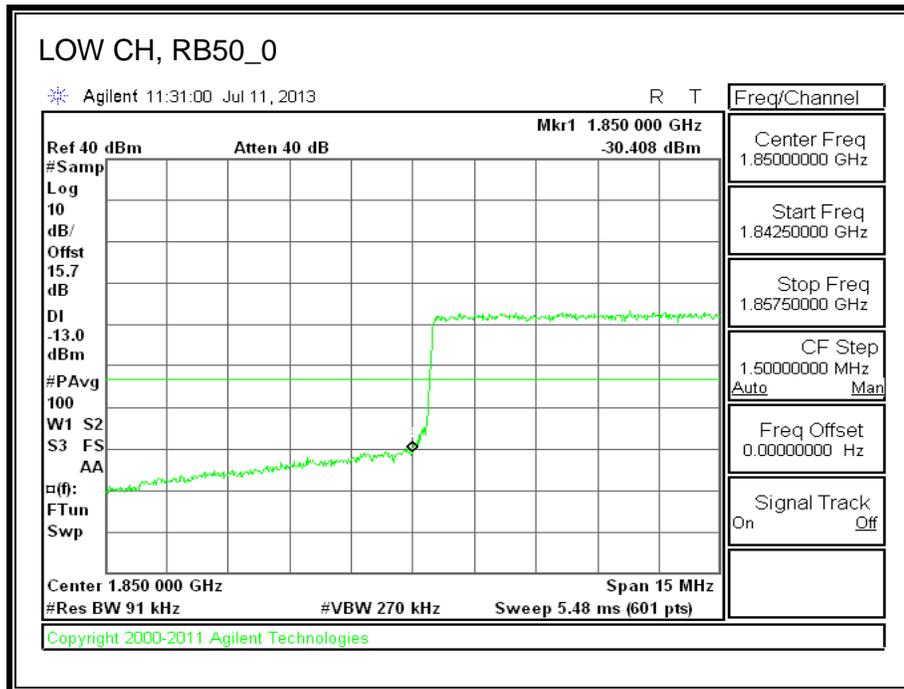
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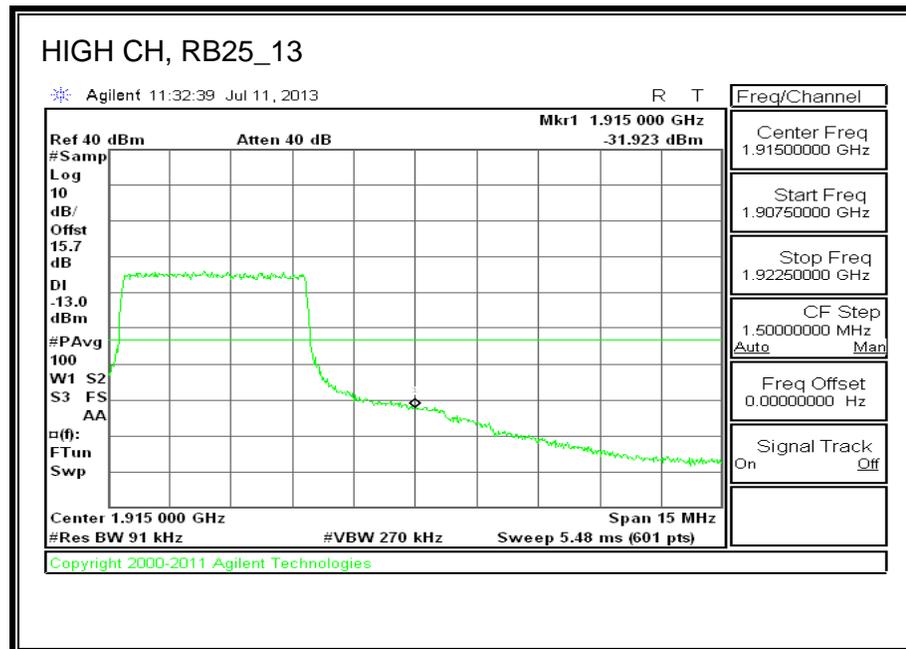
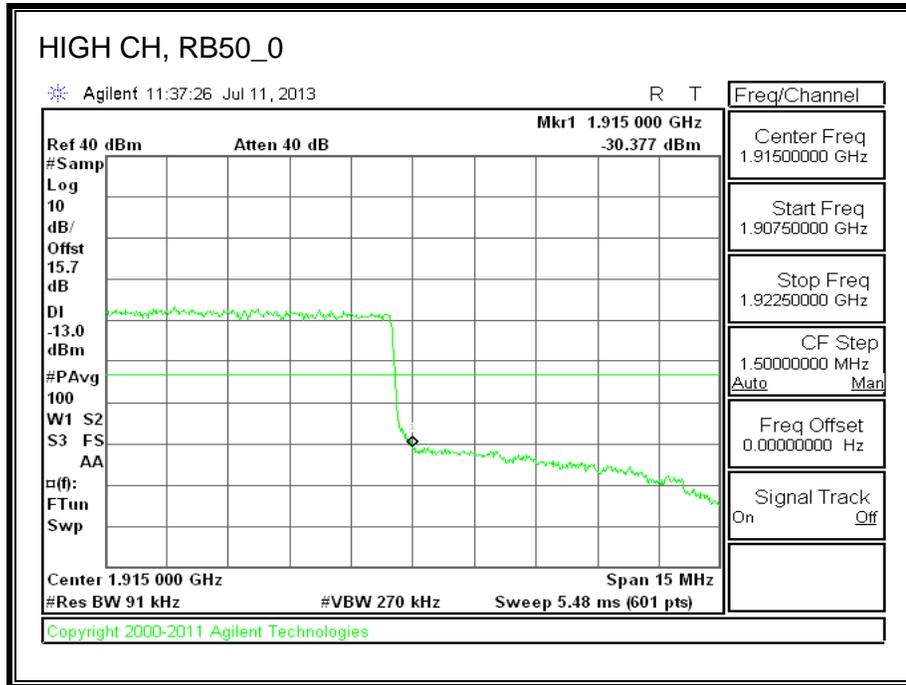
**HIGH-QPSK**



**LOW-16QAM**

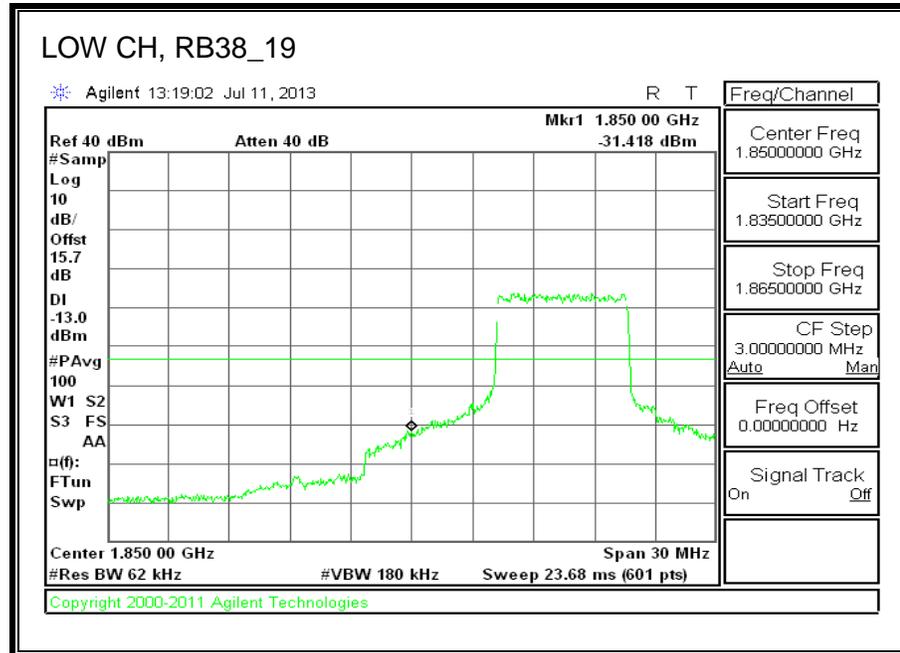
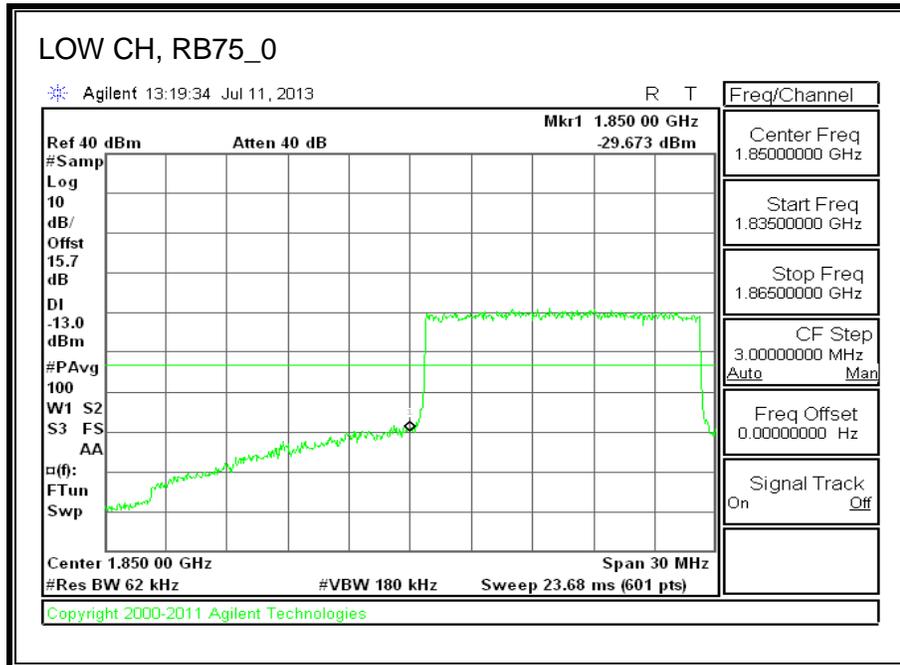


**HIGH-16QAM**

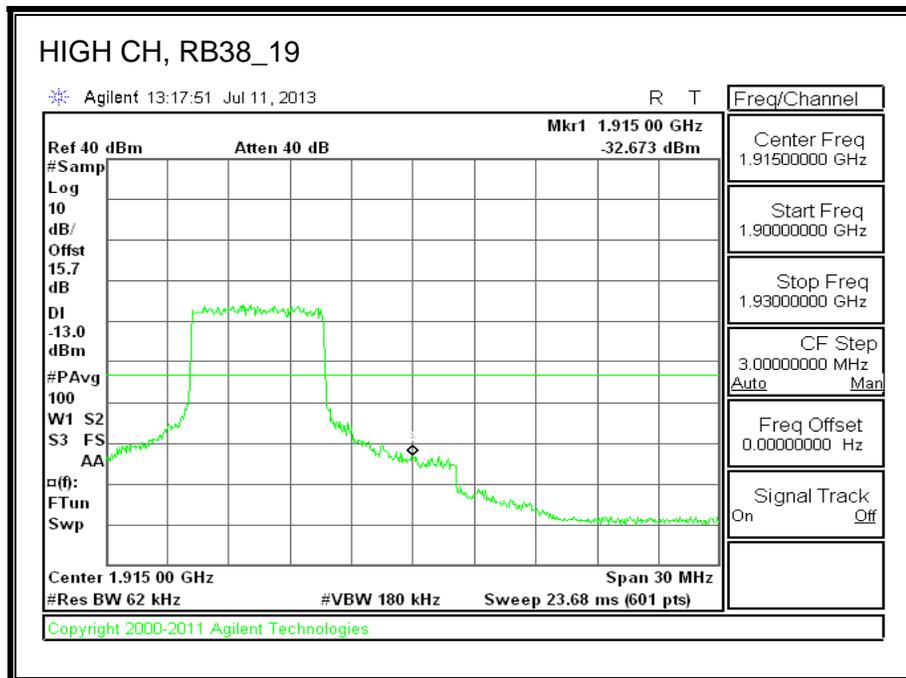
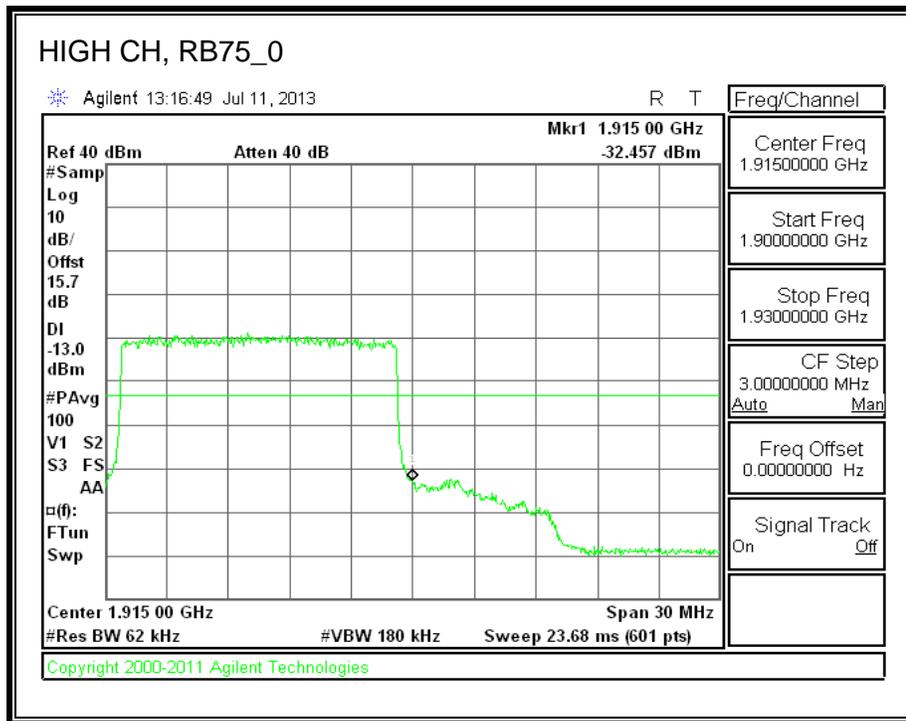


### 11.4.5. LTE BAND 25-15MHZ BANDWIDTH

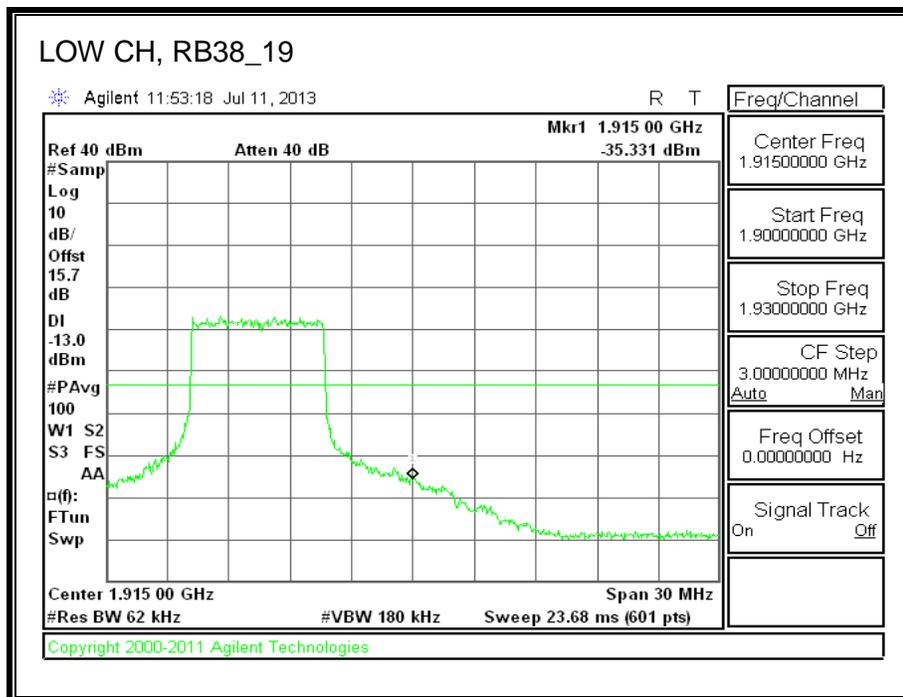
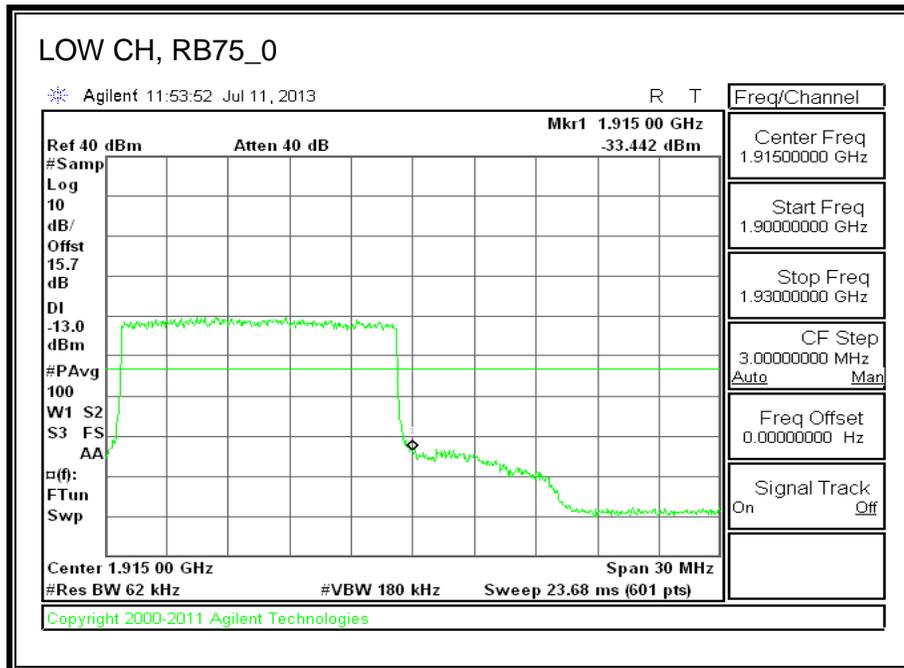
#### LOW-QPSK



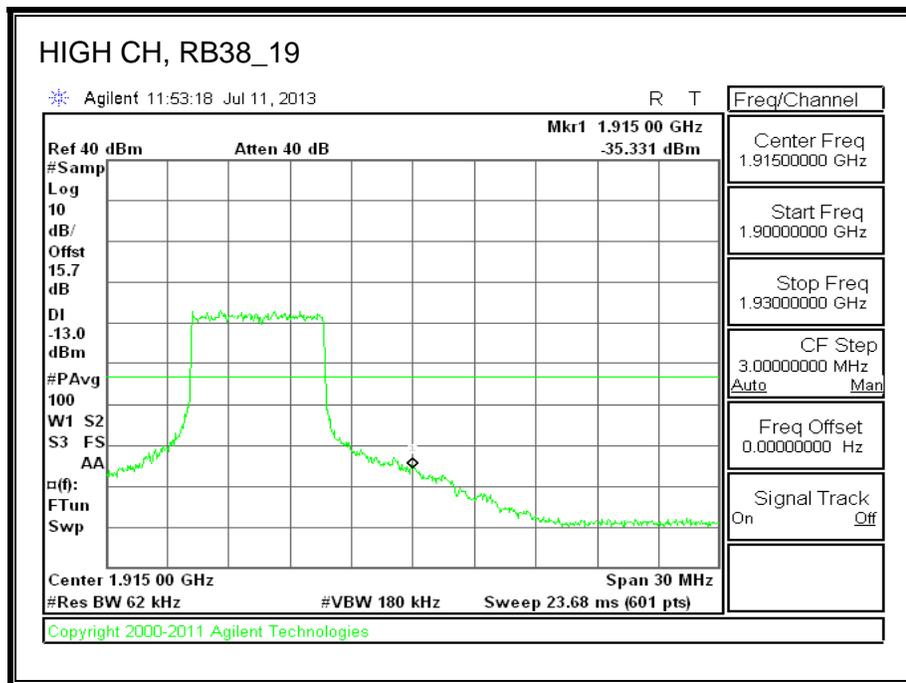
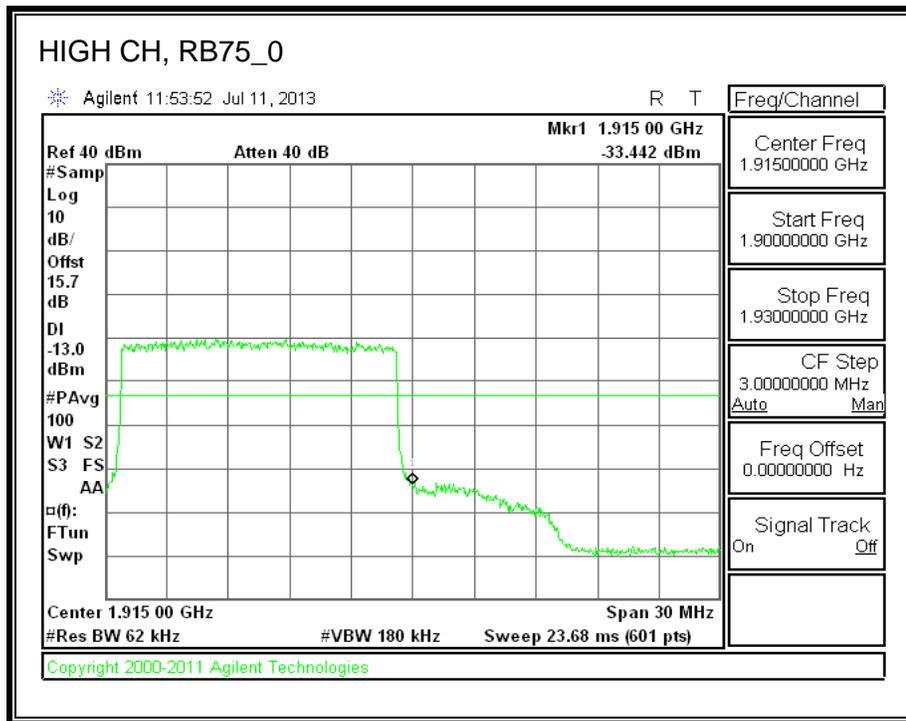
**HIGH-QPSK**



**LOW-16QAM**

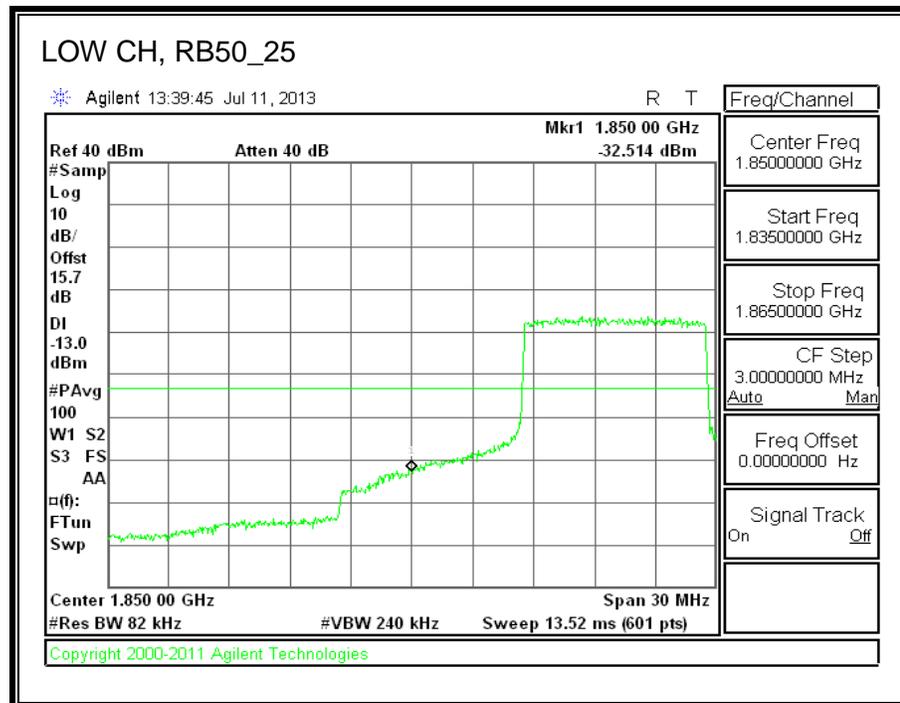
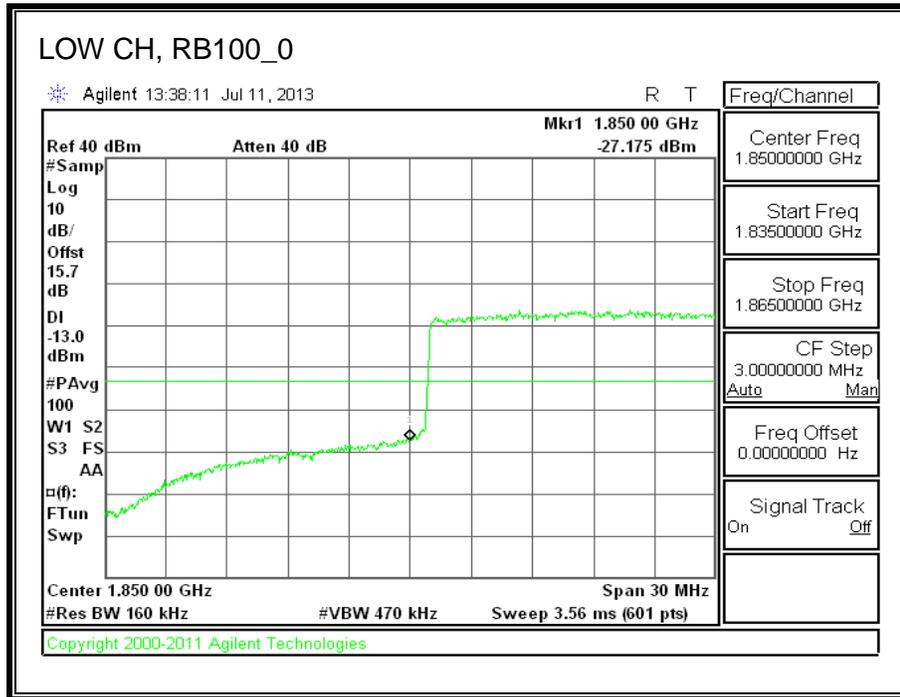


**HIGH-16QAM**

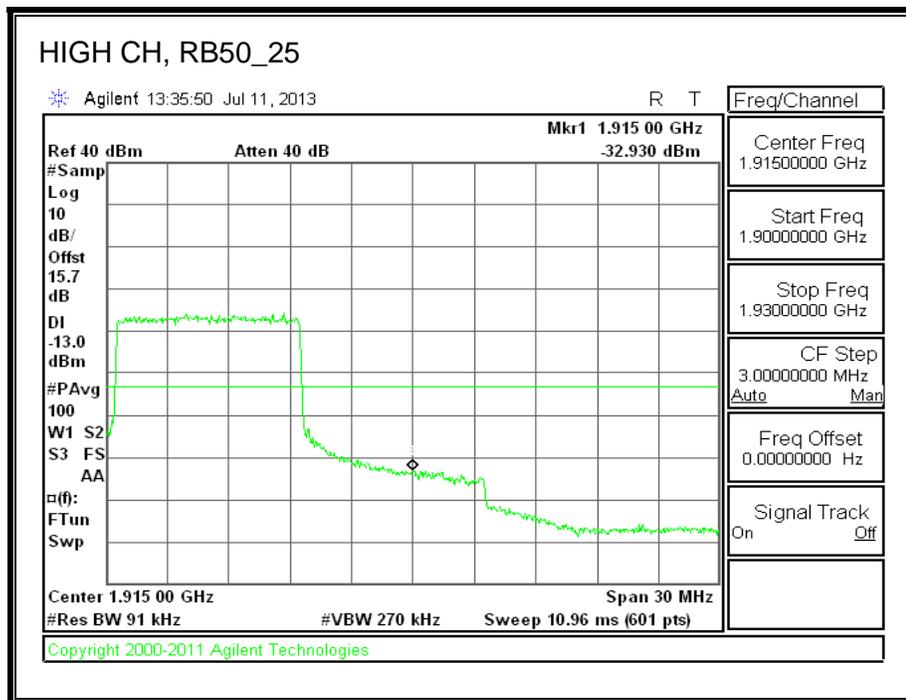
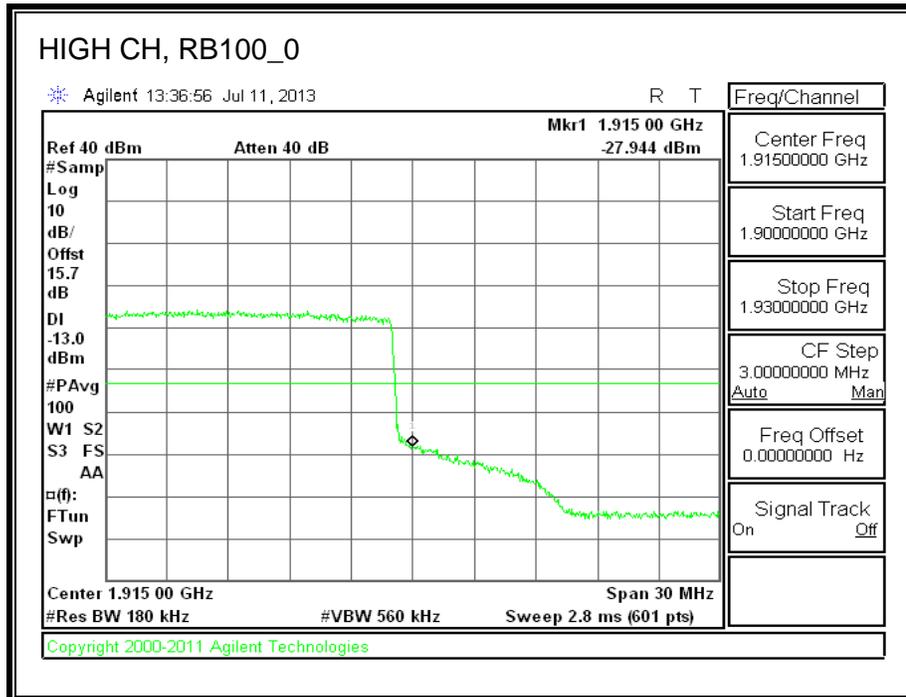


### 11.4.6. LTE BAND 25-20MHZ BANDWIDTH

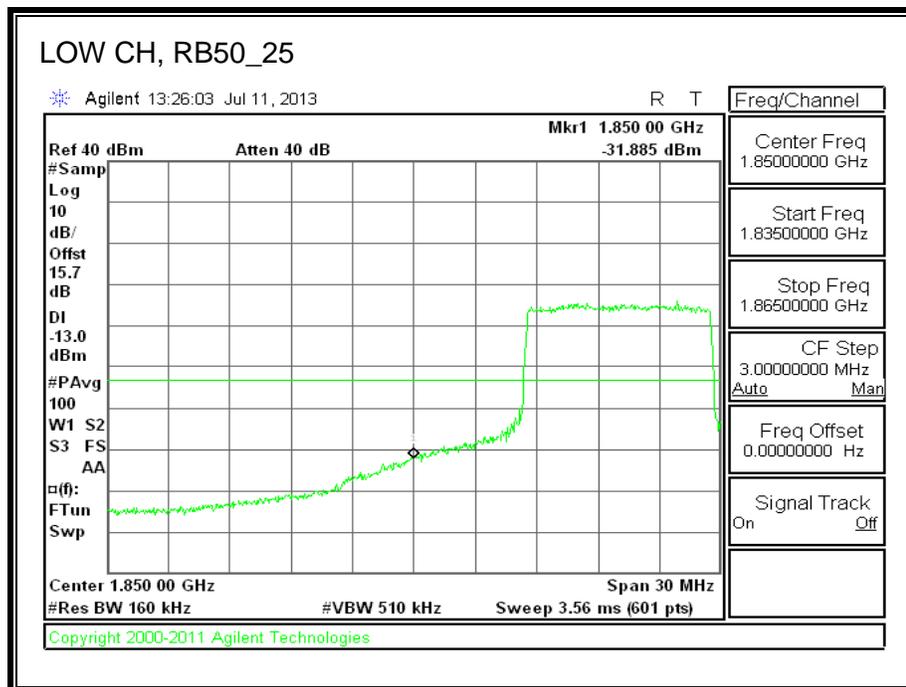
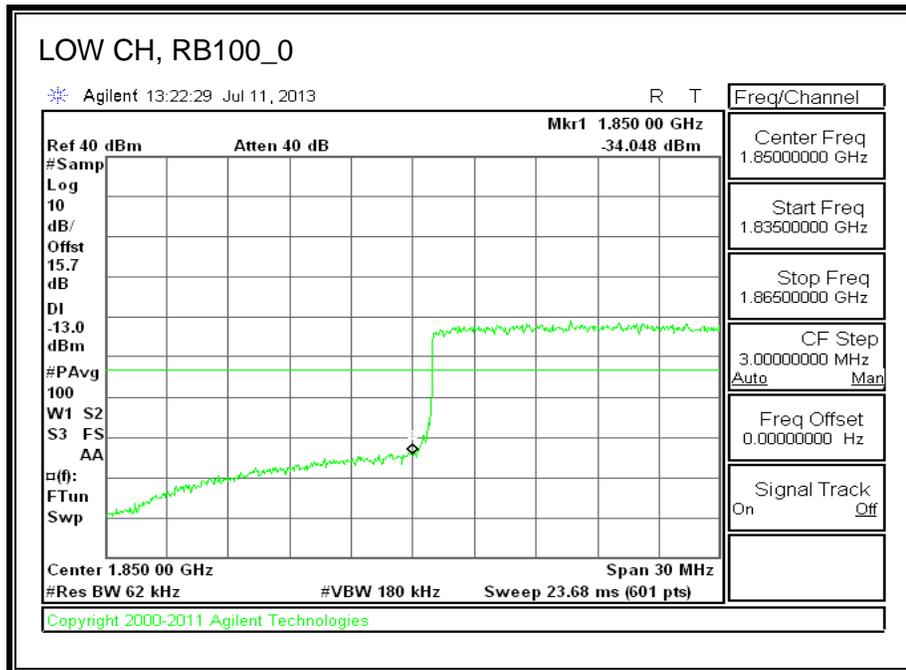
#### LOW-QPSK



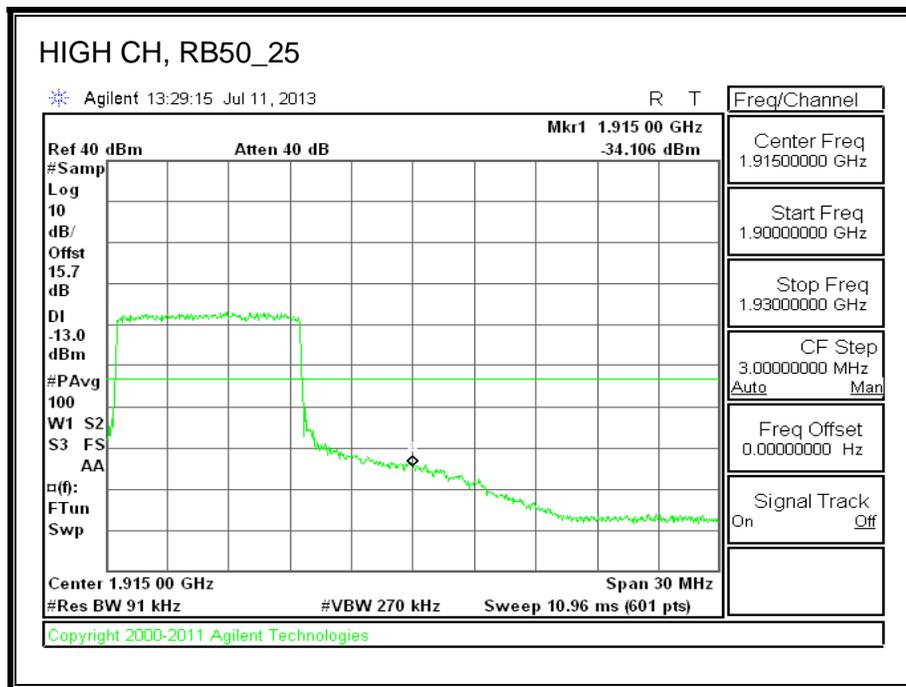
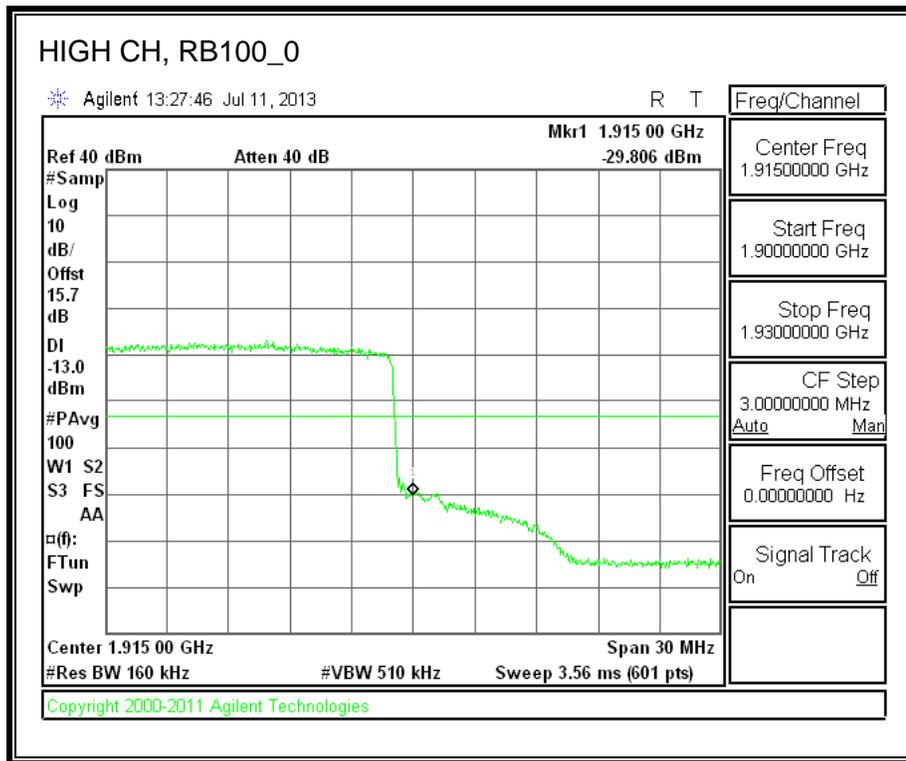
**HIGH-QPSK**



**LOW-16QAM**



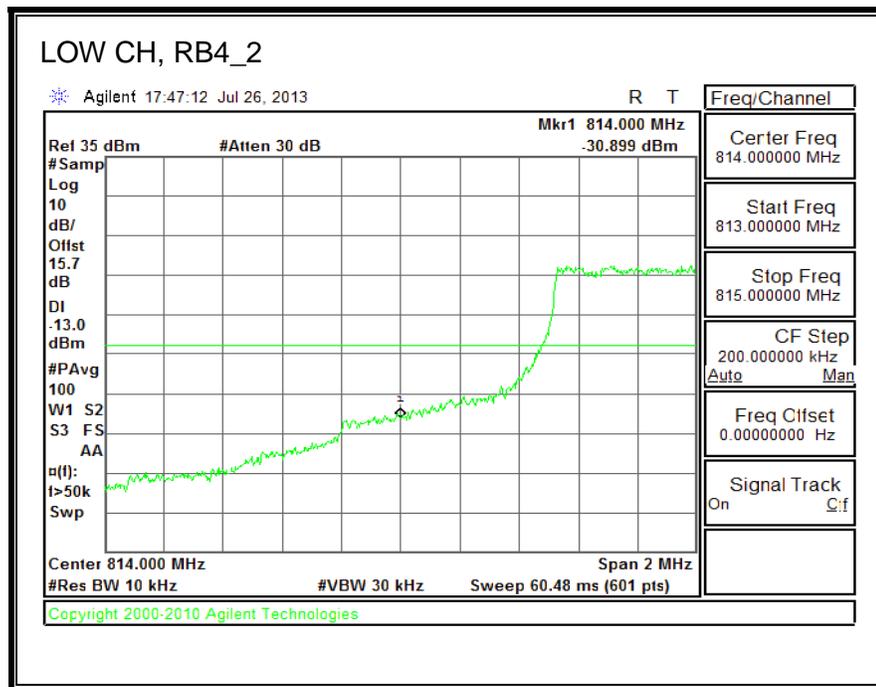
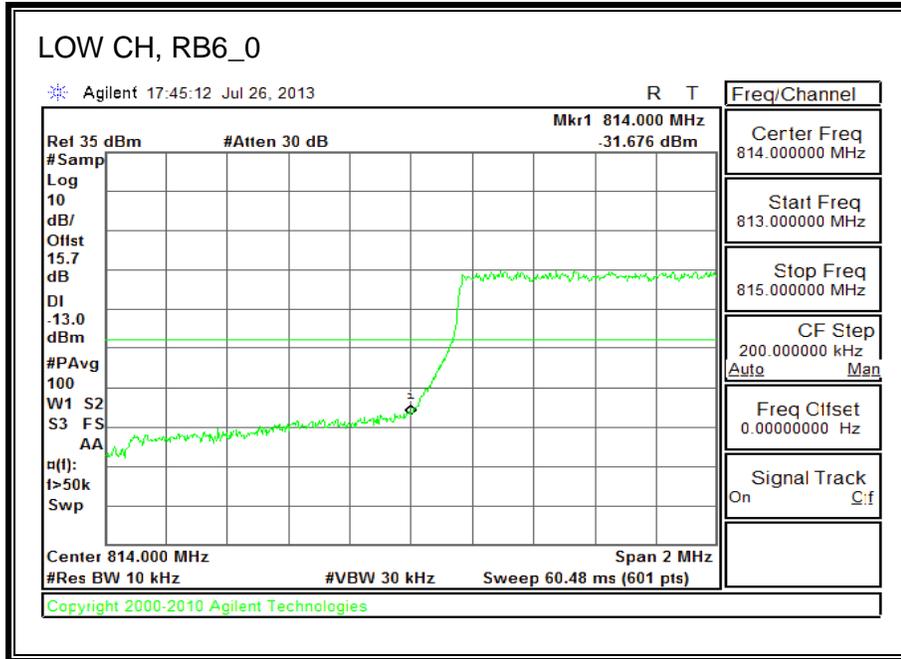
**HIGH-16QAM**



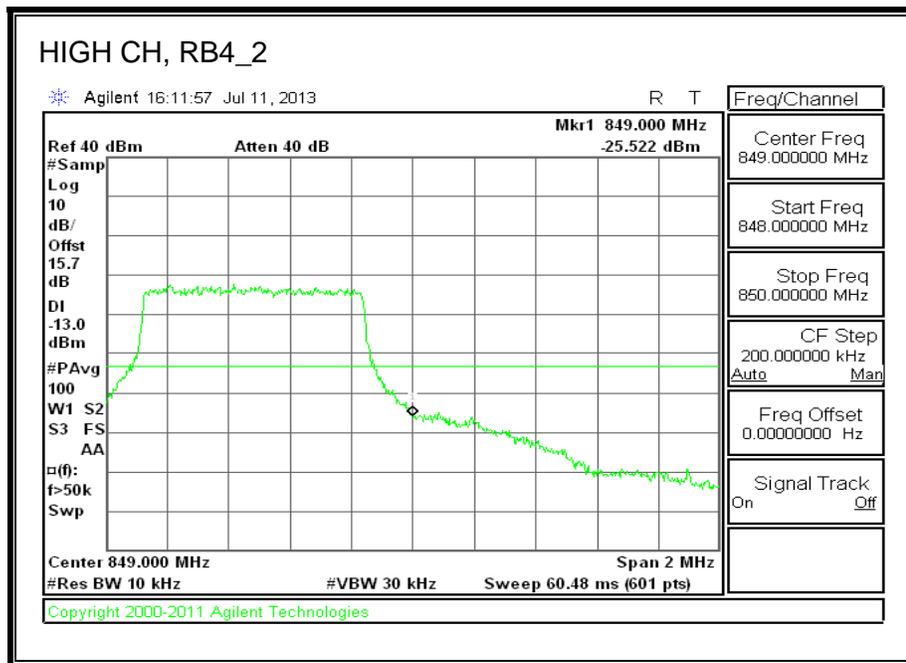
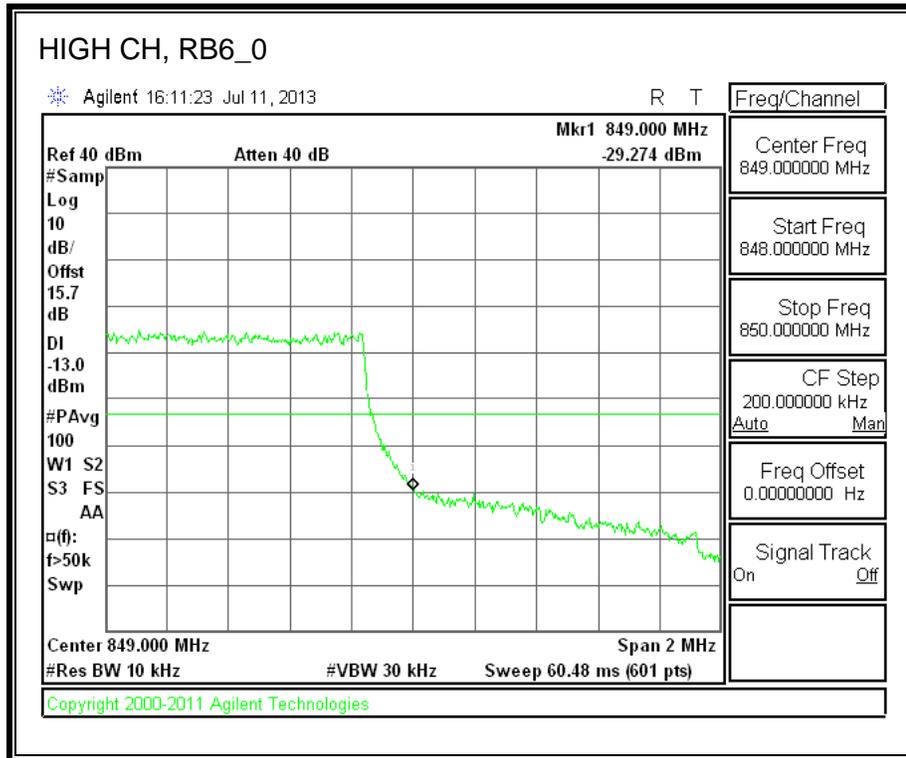
## 11.5. LTE BAND 26

### 11.5.1. LTE BAND 26-1.4MHZ BANDWIDTH

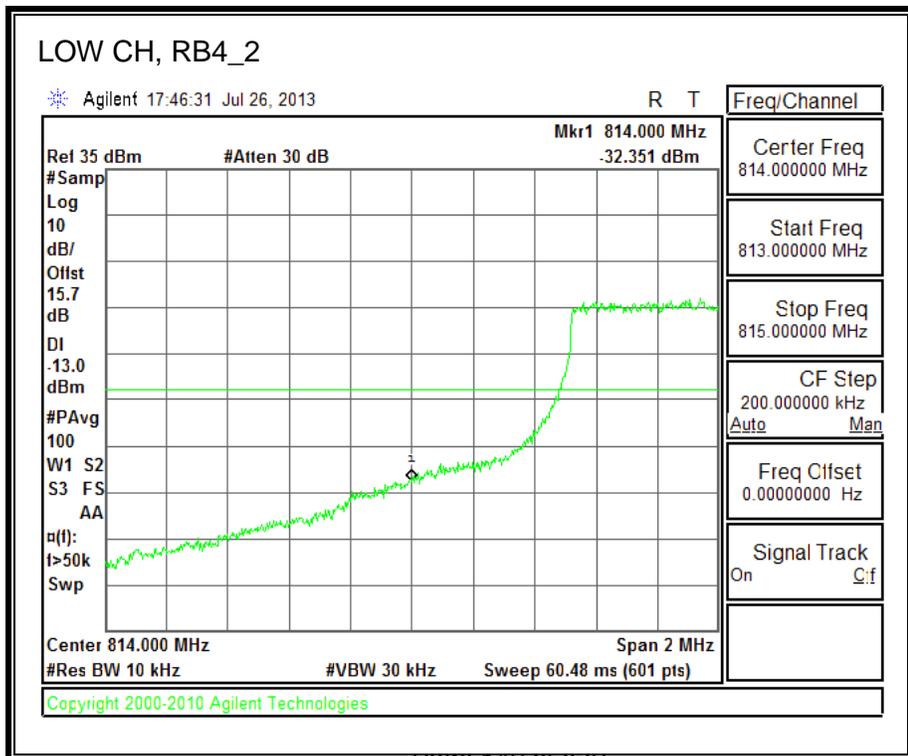
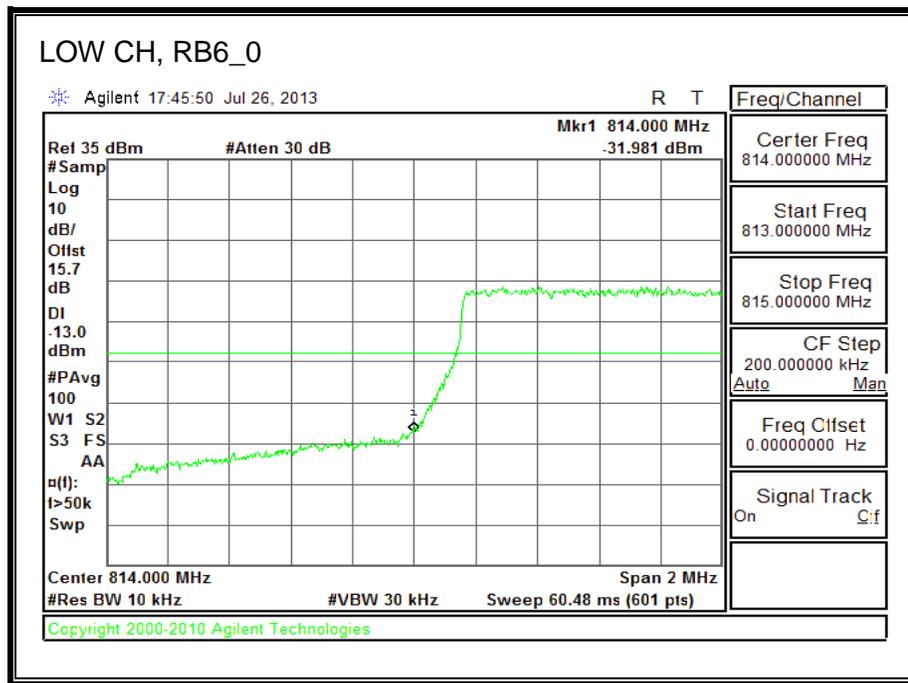
#### LOW-QPSK



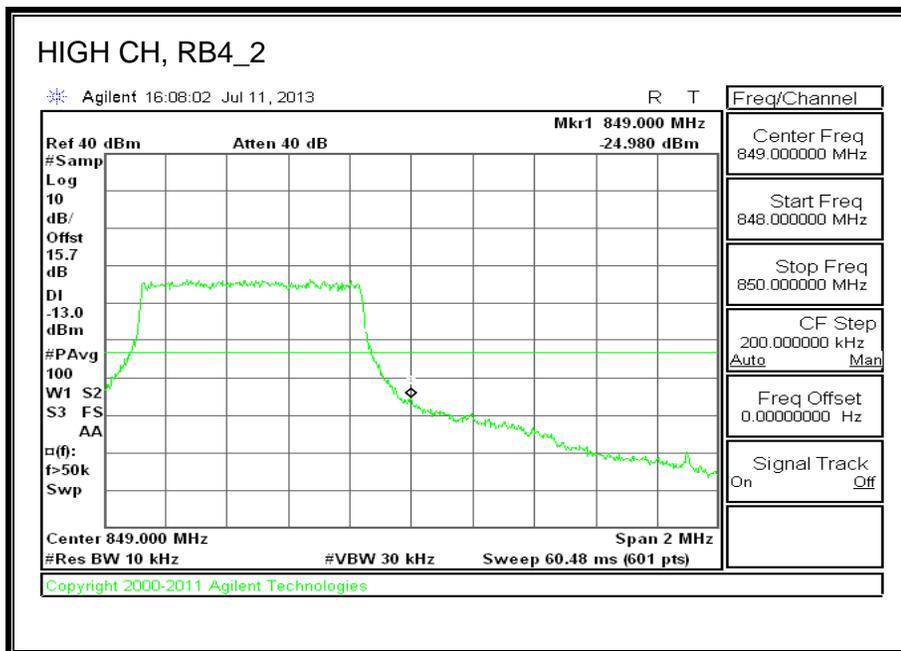
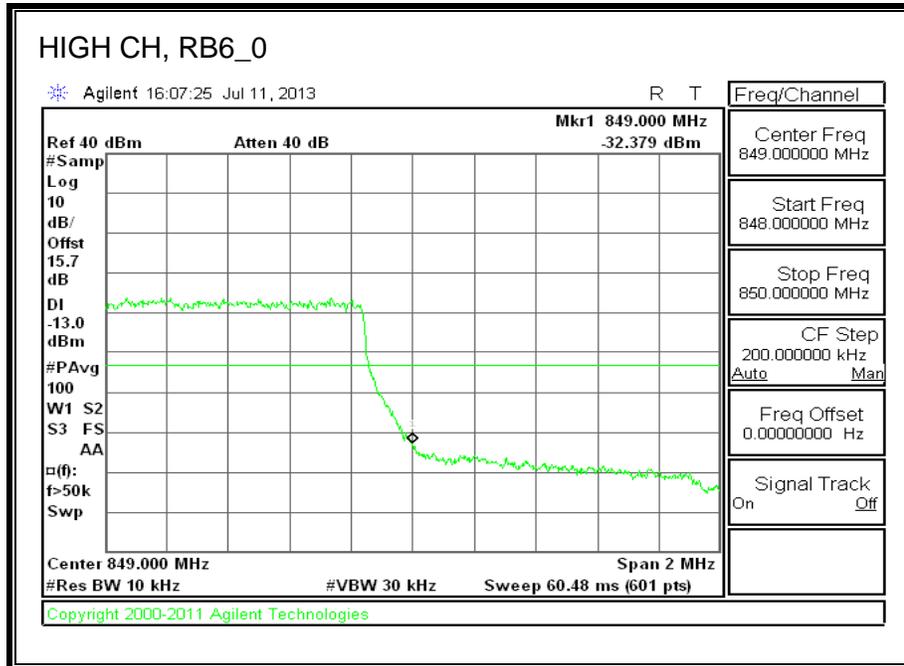
**HIGH-QPSK**



**LOW-16QAM**

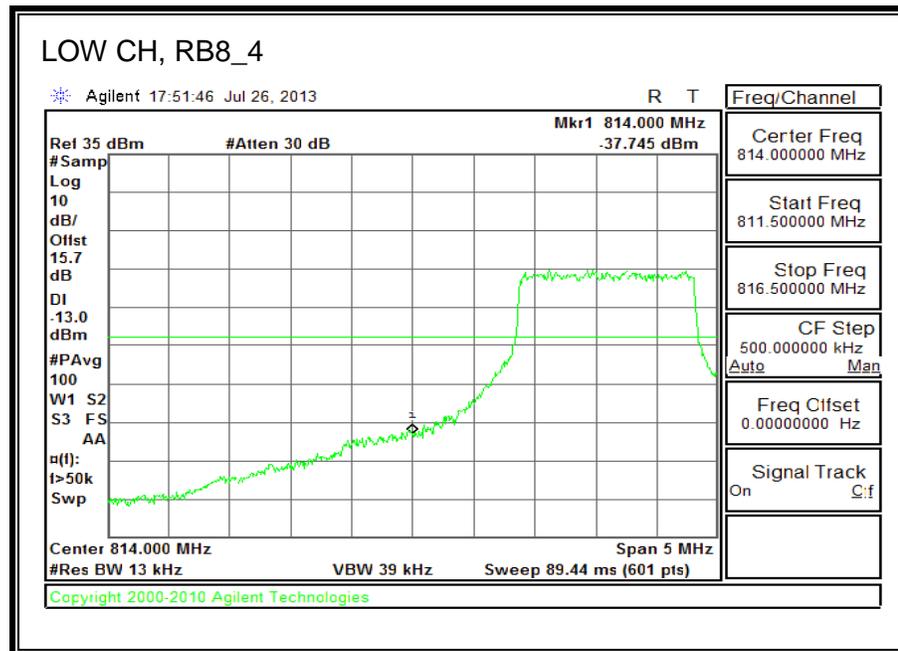
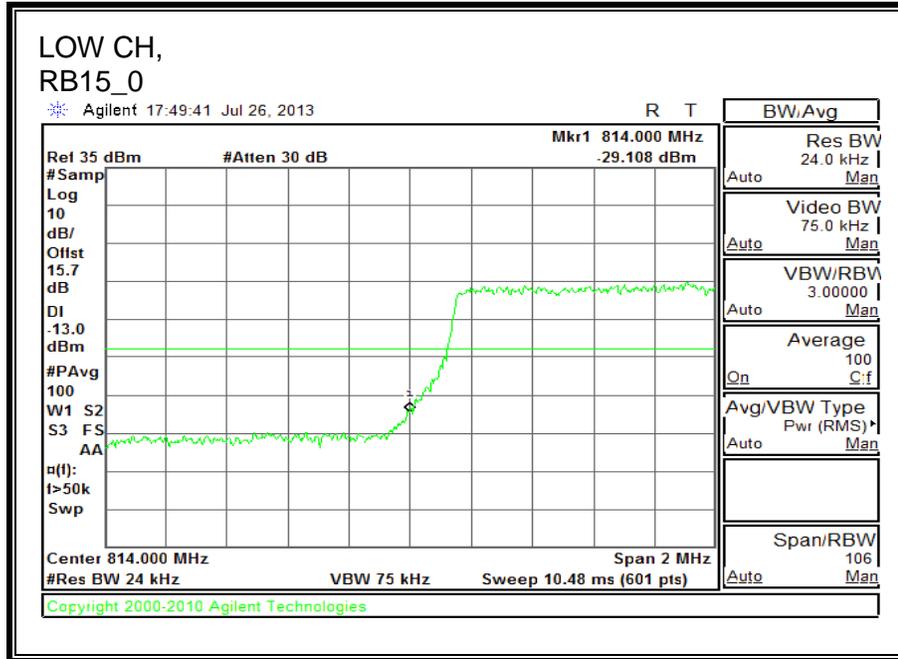


**HIGH-16QAM**

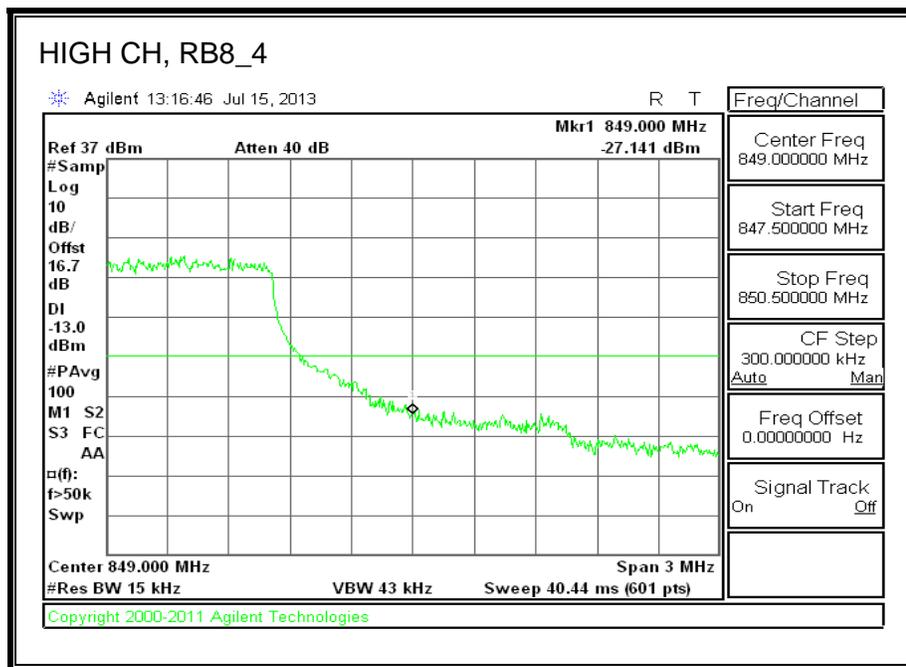
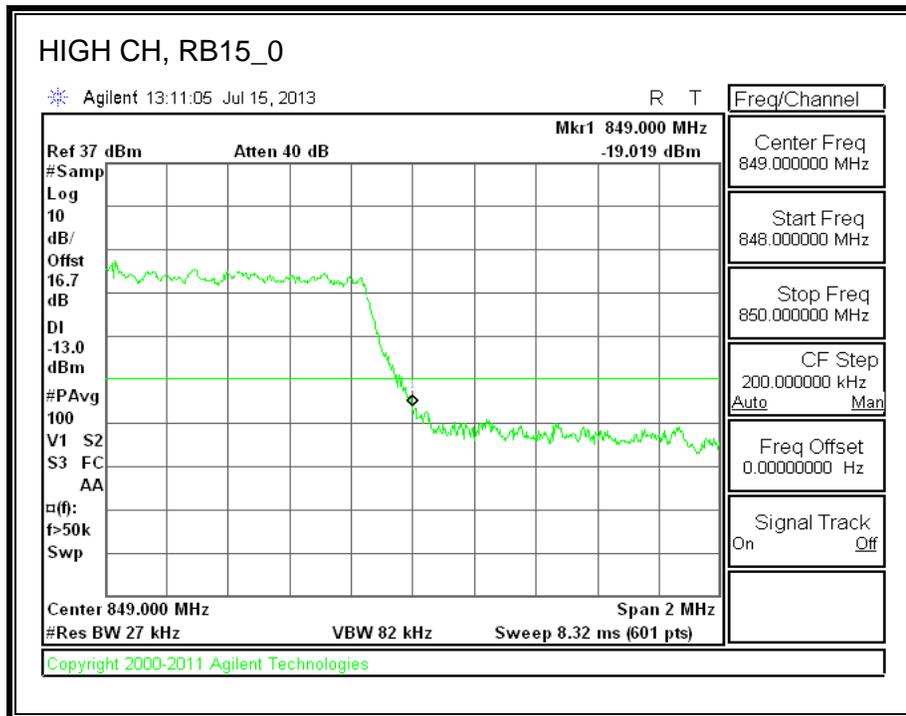


### 11.5.2. LTE BAND 26-3MHZ BANDWIDTH

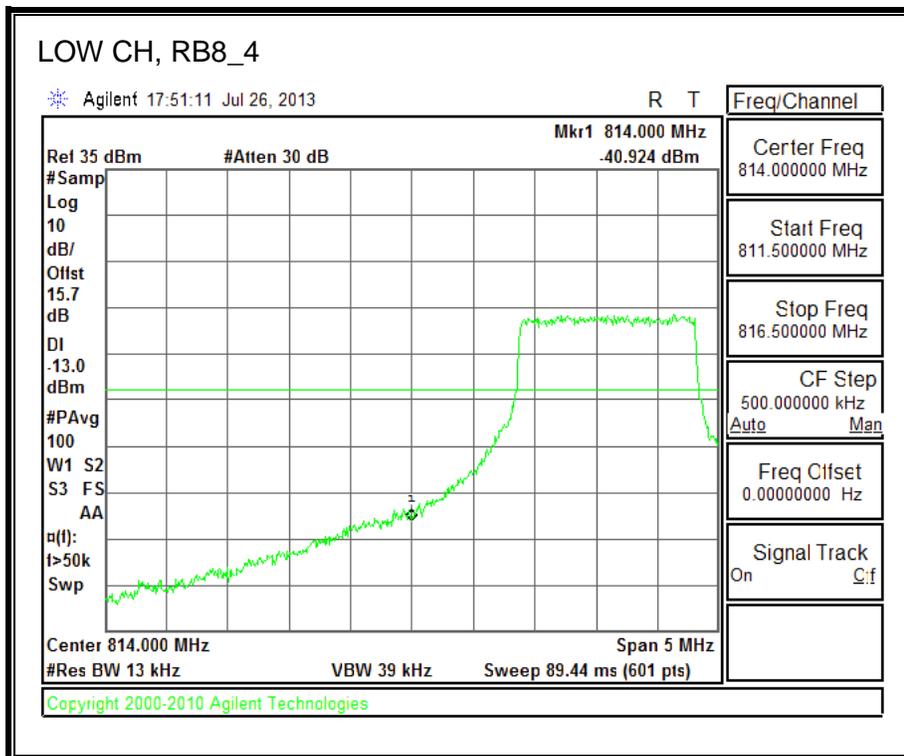
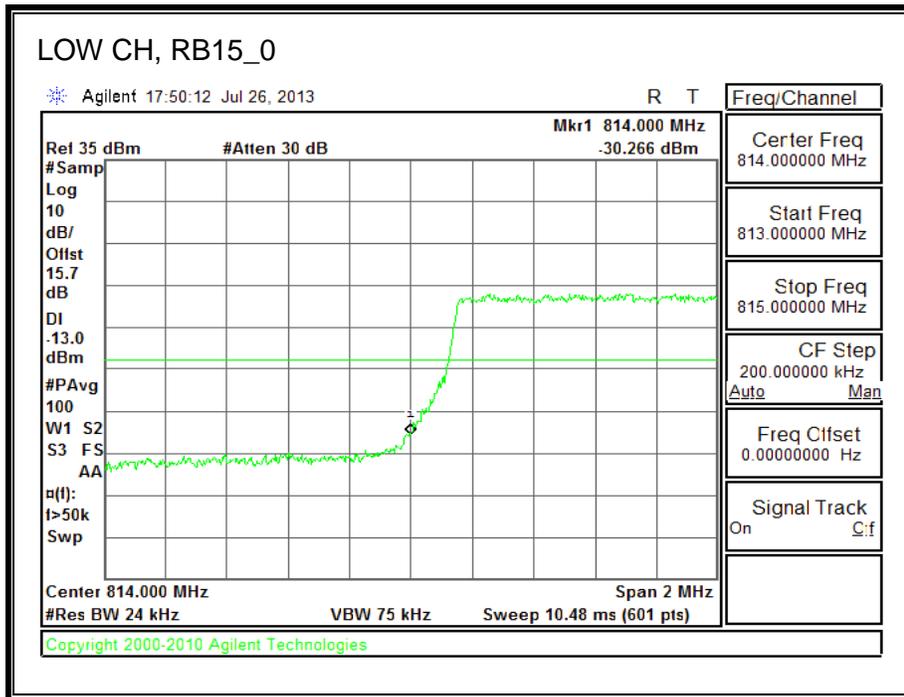
#### LOW-QPSK



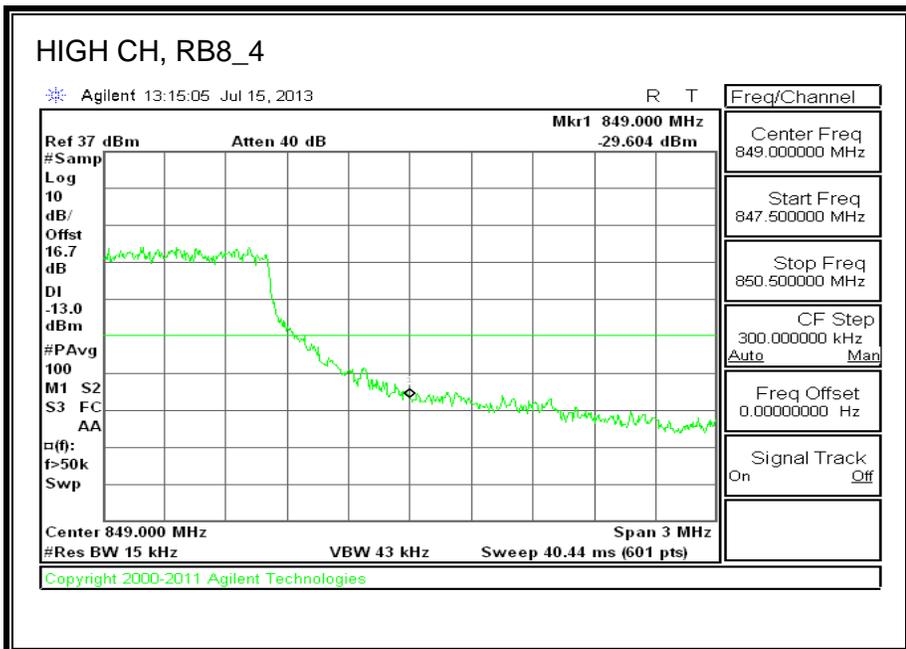
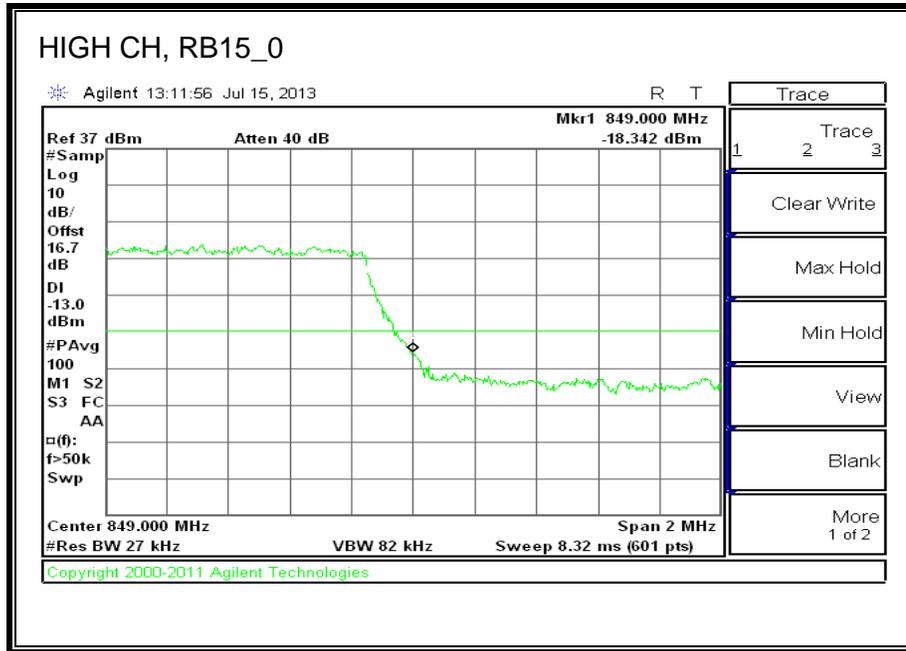
**HIGH-QPSK**



**LOW-16QAM**

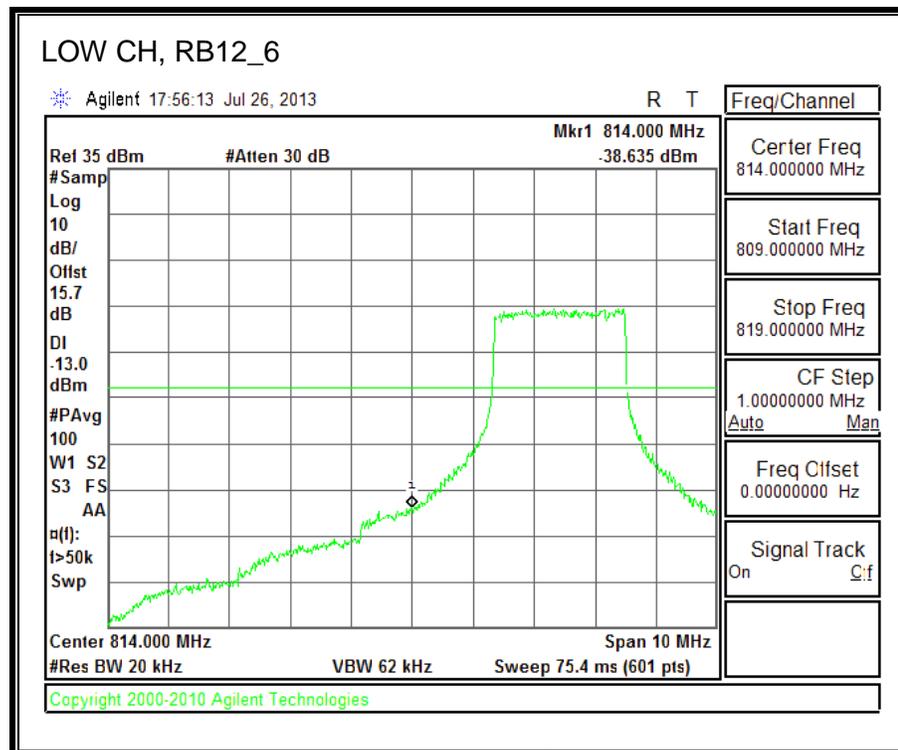
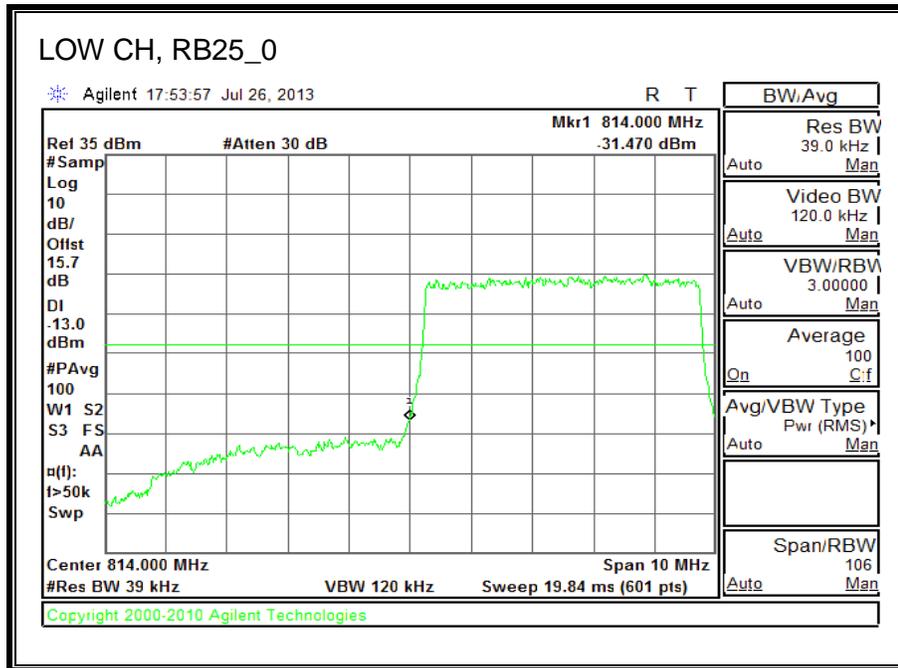


**HIGH-16QAM**

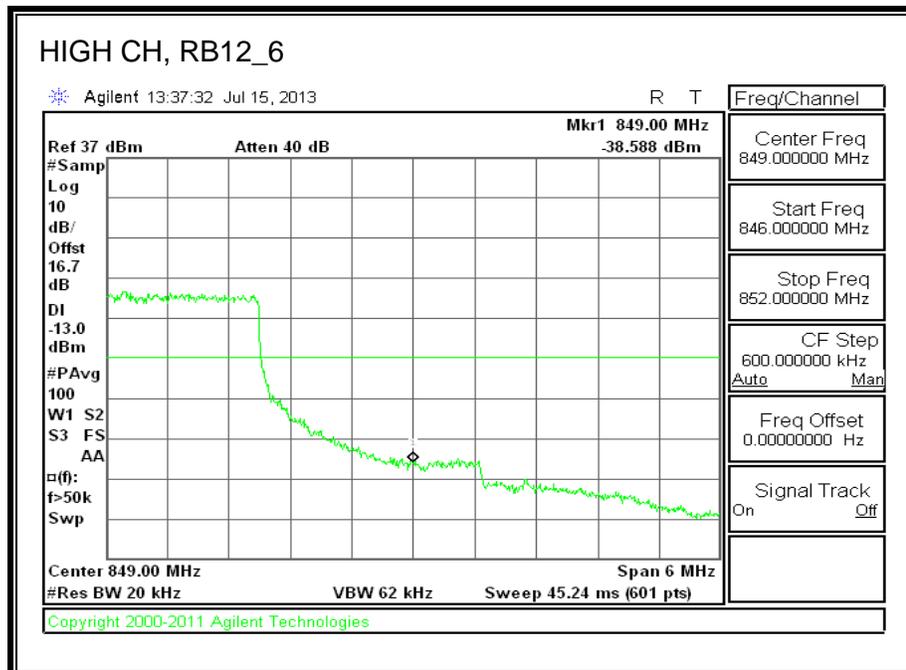
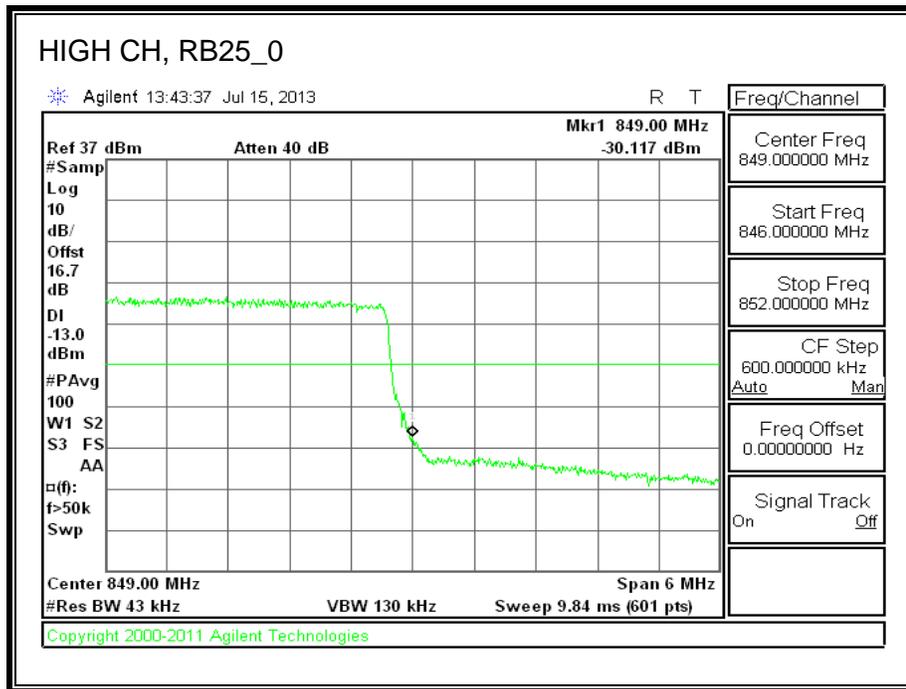


### 11.5.3. LTE BAND 26-5MHZ BANDWIDTH

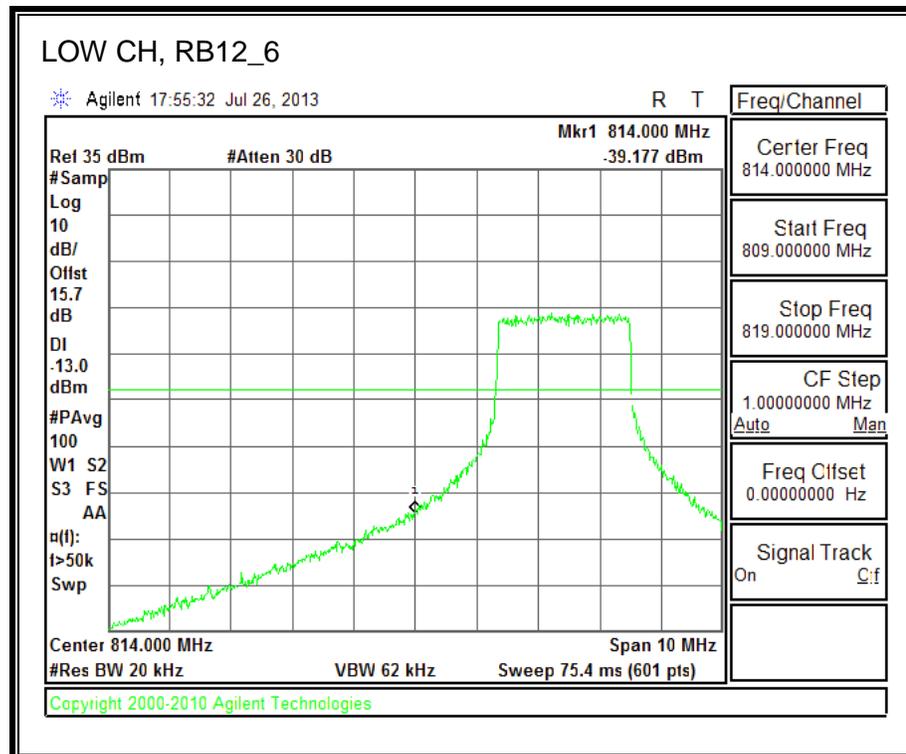
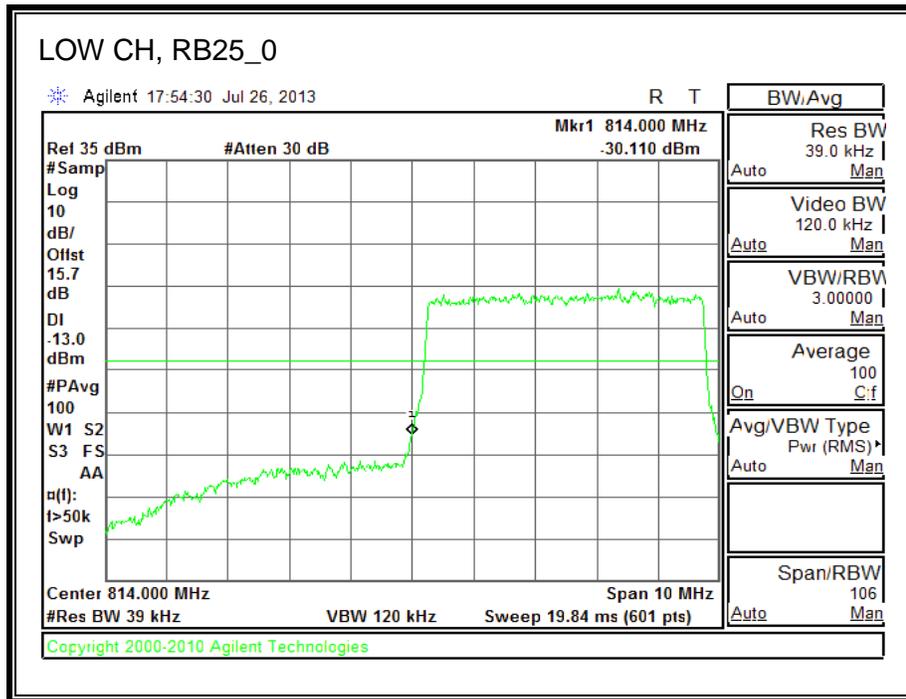
#### LOW-QPSK



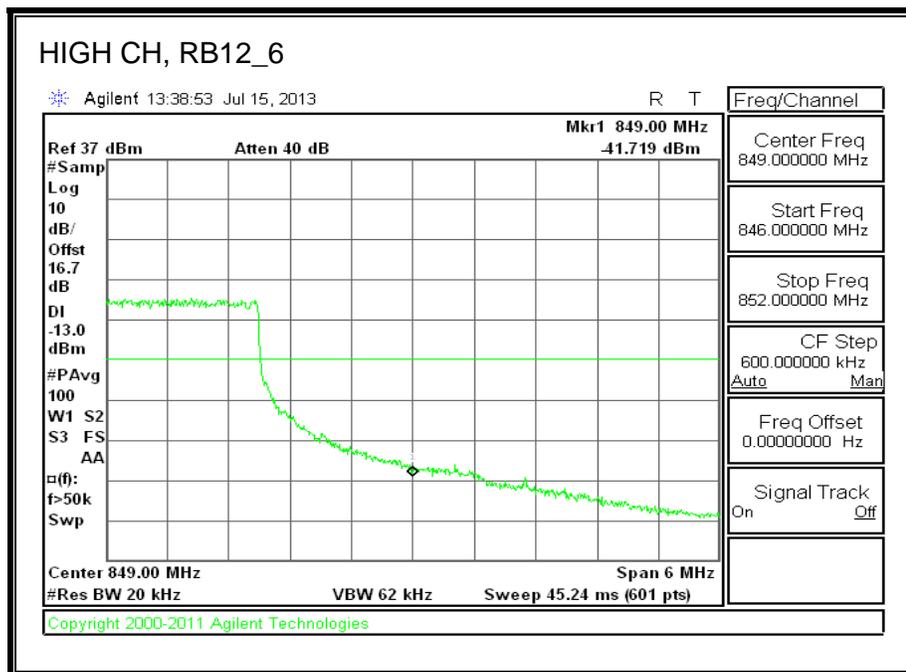
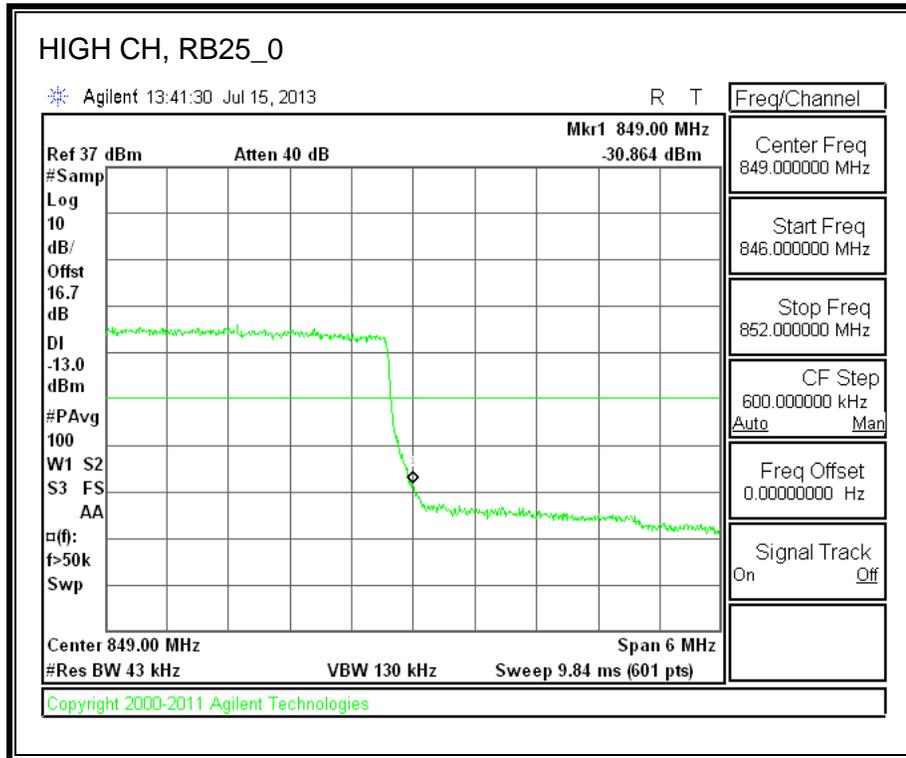
**HIGH-QPSK**



**LOW-16QAM**



**HIGH-16QAM**



### 11.5.4. LTE BAND 26-10MHZ BANDWIDTH

#### LOW-QPSK

