



**Middle channel:**

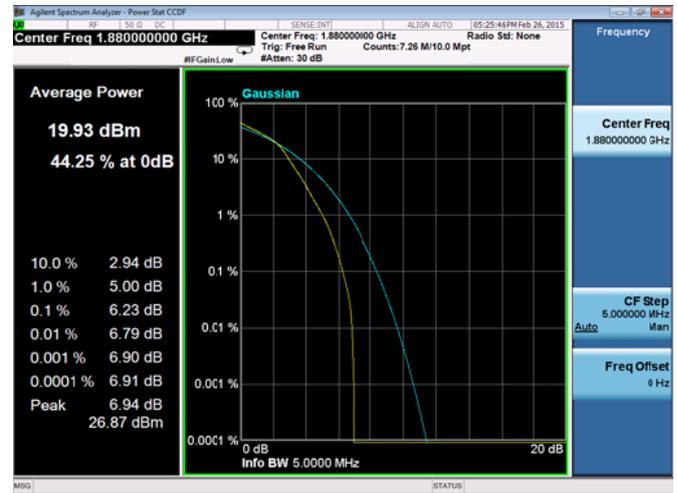
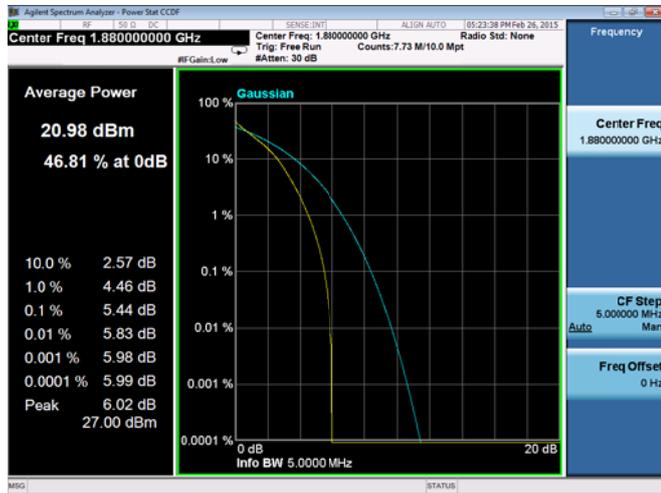
<b>Channel Bandwidth: 1.4MHz</b>				<b>Channel Bandwidth: 3MHz</b>			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18900	1880.0	5.44	6.23	18900	1880.0	5.42	6.27
<b>Channel Bandwidth: 5MHz</b>				<b>Channel Bandwidth: 10MHz</b>			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18900	1880.0	5.52	6.30	18900	1880.0	4.61	6.06
<b>Channel Bandwidth: 15MHz</b>				<b>Channel Bandwidth: 20MHz</b>			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18900	1880.0	5.74	6.67	18900	1880.0	6.46	7.11



**Spectrum Plot of Worst Value**

**1.4MHz/QPSK**

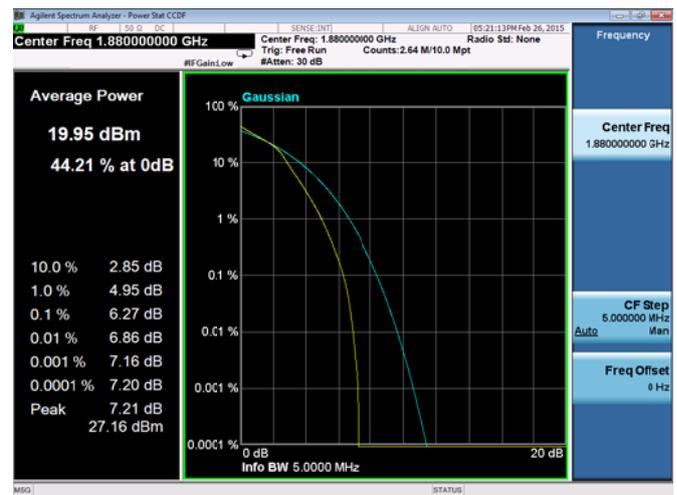
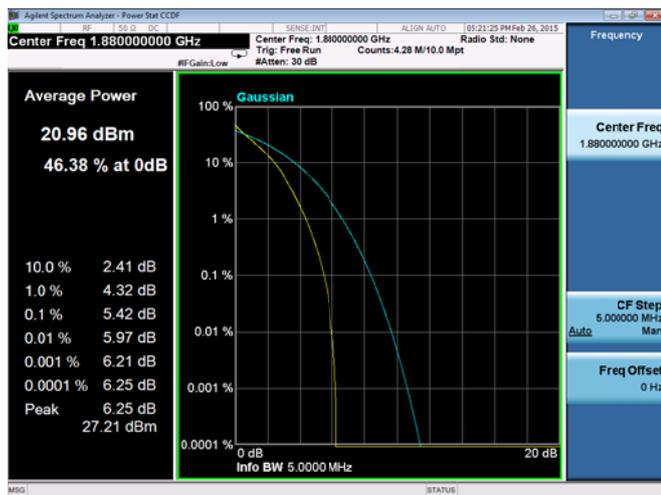
**1.4MHz/16QAM**



**Spectrum Plot of Worst Value**

**3MHz/QPSK**

**3MHz/16QAM**

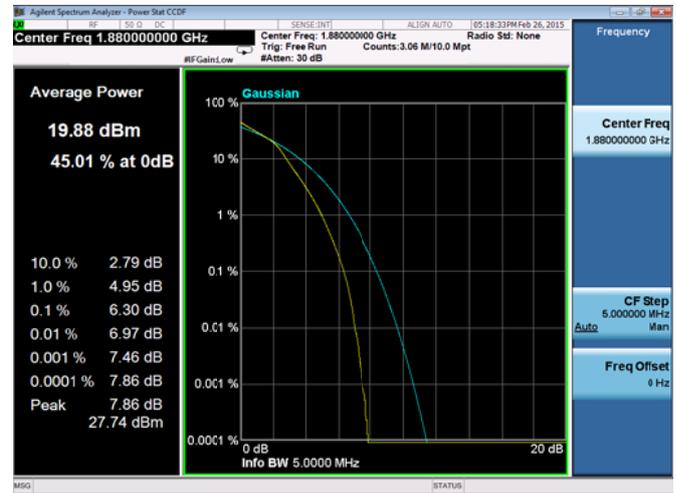
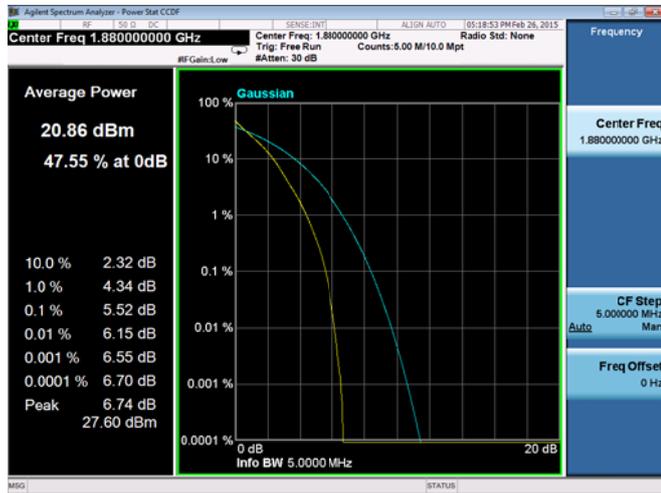




**Spectrum Plot of Worst Value**

**5MHz/QPSK**

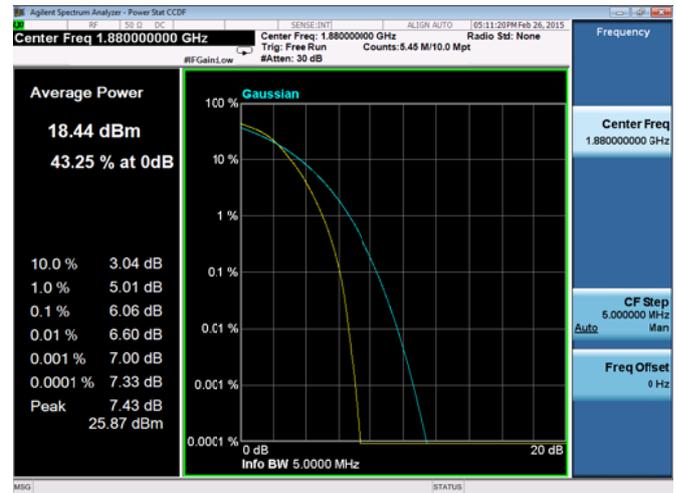
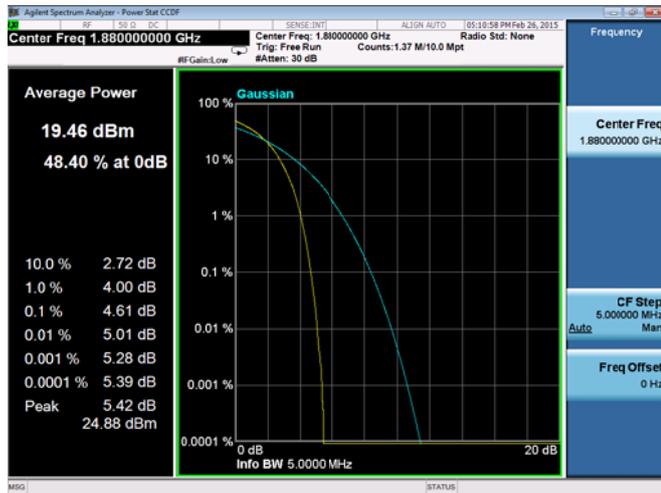
**5MHz/16QAM**



**Spectrum Plot of Worst Value**

**10MHz/QPSK**

**10MHz/16QAM**

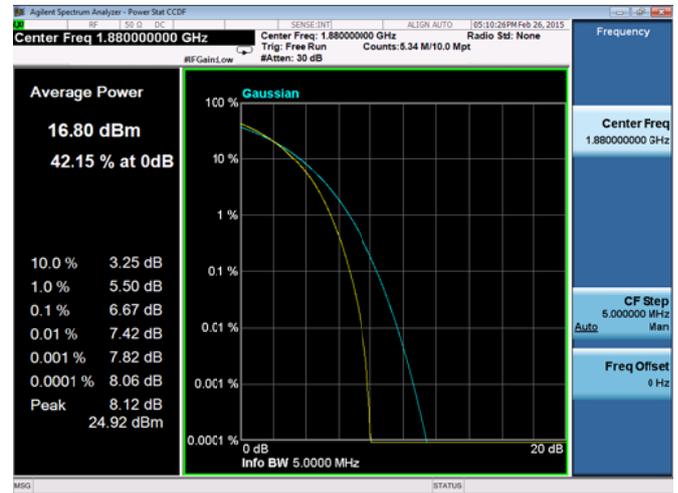
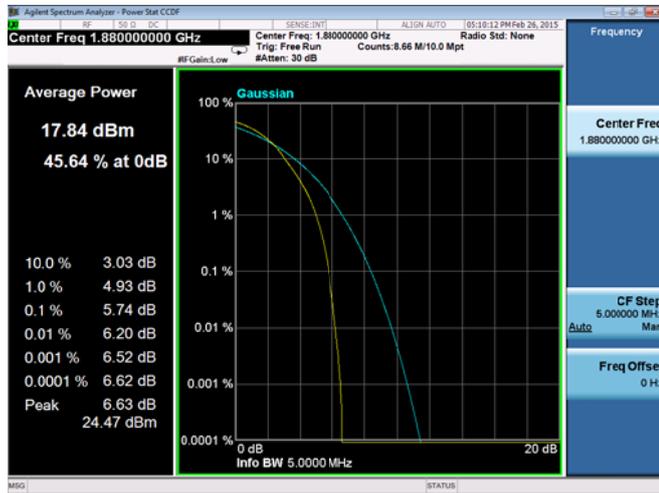




**Spectrum Plot of Worst Value**

**15MHz/QPSK**

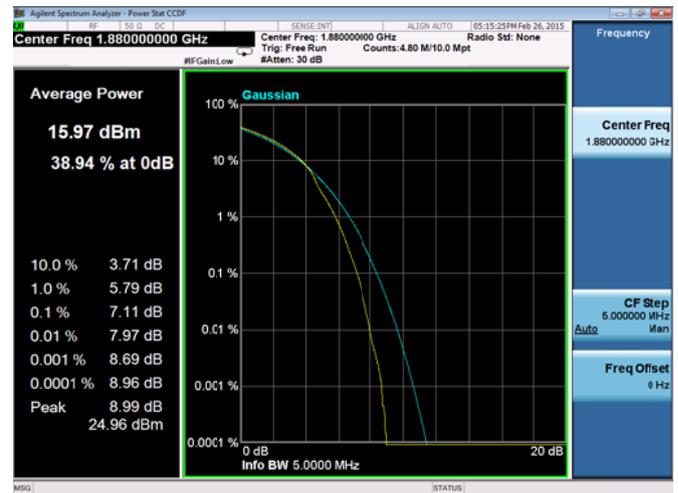
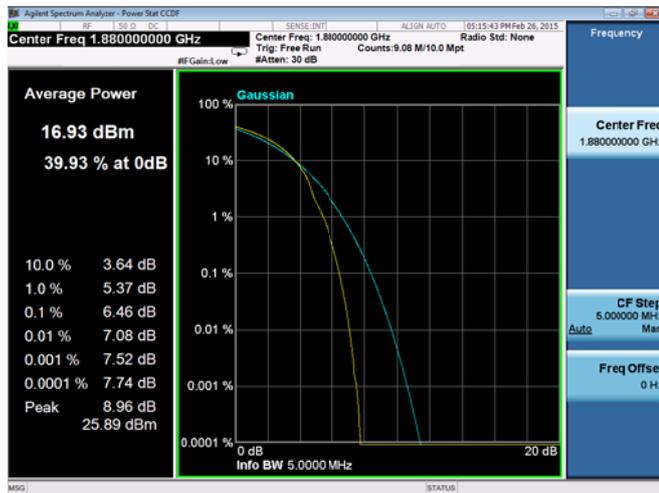
**15MHz/16QAM**



**Spectrum Plot of Worst Value**

**20MHz/QPSK**

**20MHz/16QAM**





**High channel:**

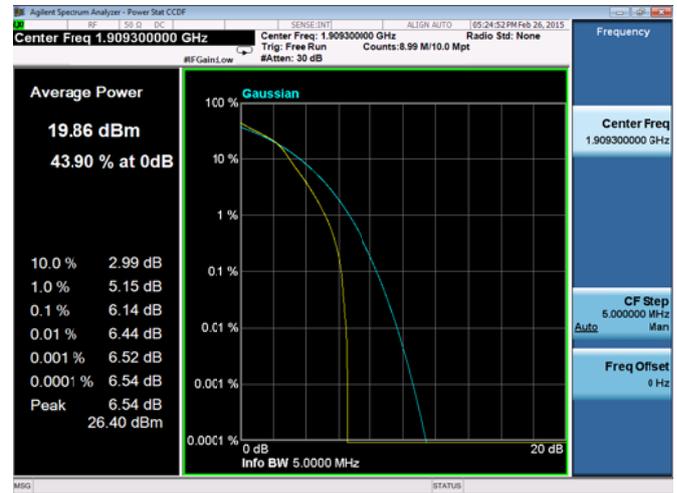
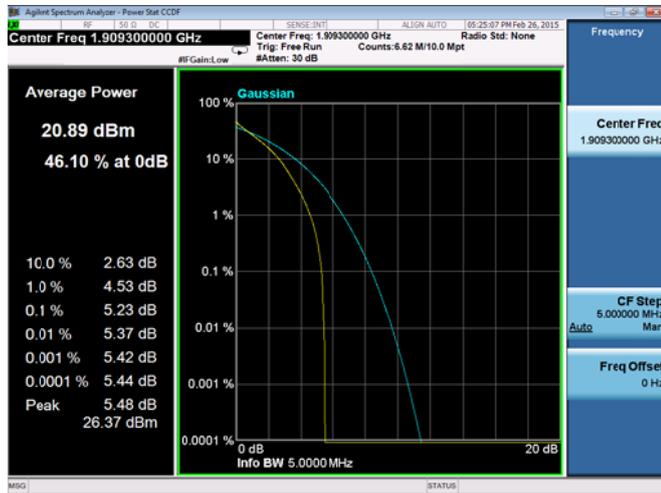
<b>Channel Bandwidth: 1.4MHz</b>				<b>Channel Bandwidth: 3MHz</b>			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
19192	1909.2	5.23	6.14	19184	1908.4	5.33	6.23
<b>Channel Bandwidth: 5MHz</b>				<b>Channel Bandwidth: 10MHz</b>			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
19175	1907.5	5.50	6.25	19150	1905.0	4.57	5.78
<b>Channel Bandwidth: 15MHz</b>				<b>Channel Bandwidth: 20MHz</b>			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
19125	1902.5	5.75	6.79	19100	1900.0	6.44	7.13



Spectrum Plot of Worst Value

1.4MHz/QPSK

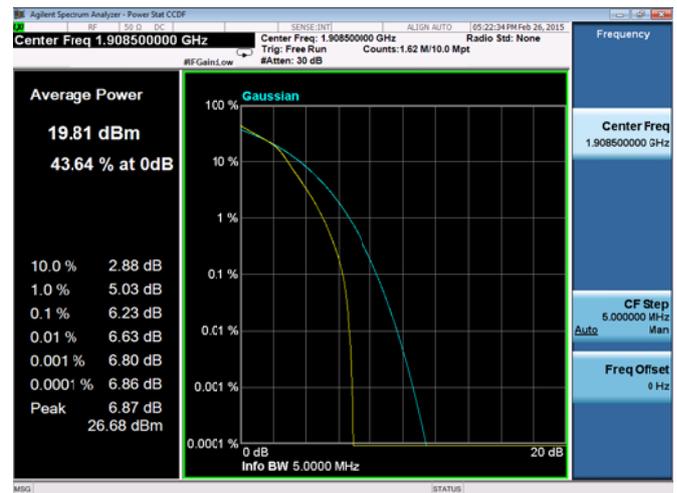
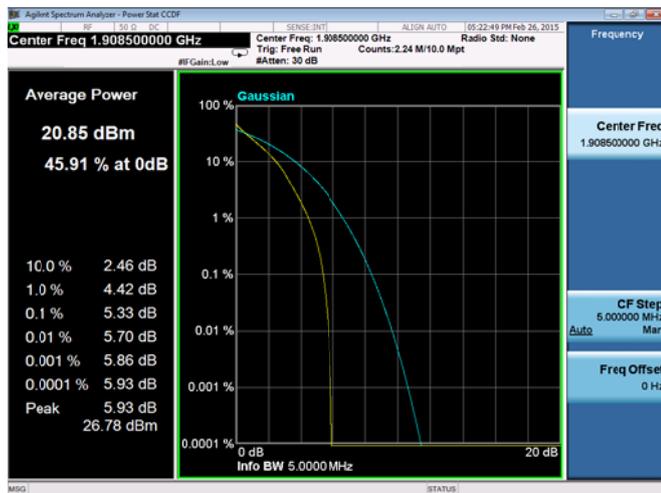
1.4MHz/16QAM



Spectrum Plot of Worst Value

3MHz/QPSK

3MHz/16QAM

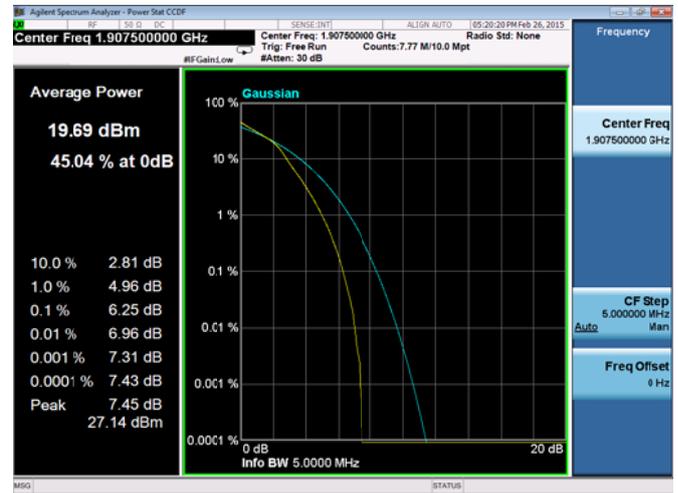
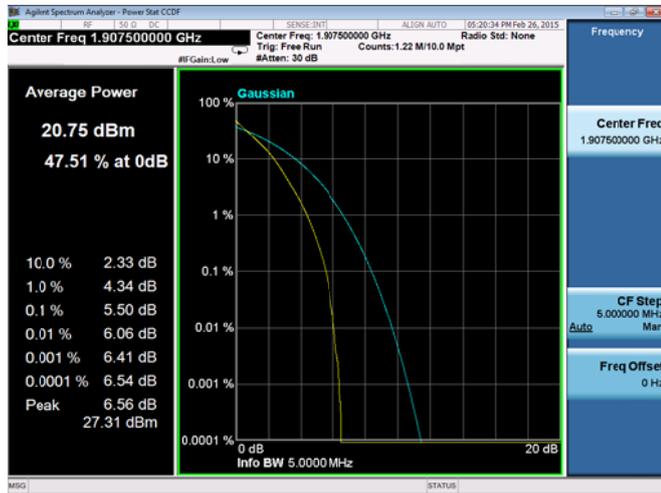




Spectrum Plot of Worst Value

5MHz/QPSK

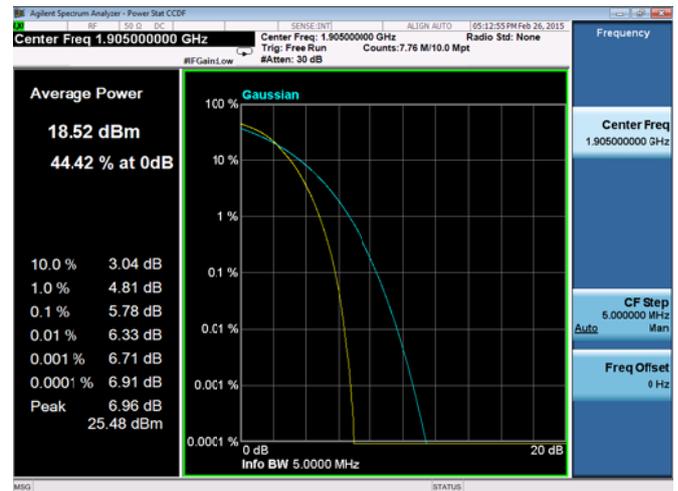
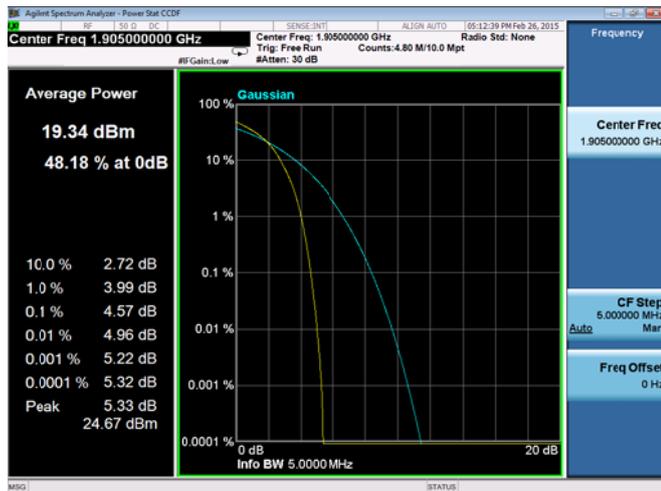
5MHz/16QAM



Spectrum Plot of Worst Value

10MHz/QPSK

10MHz/16QAM

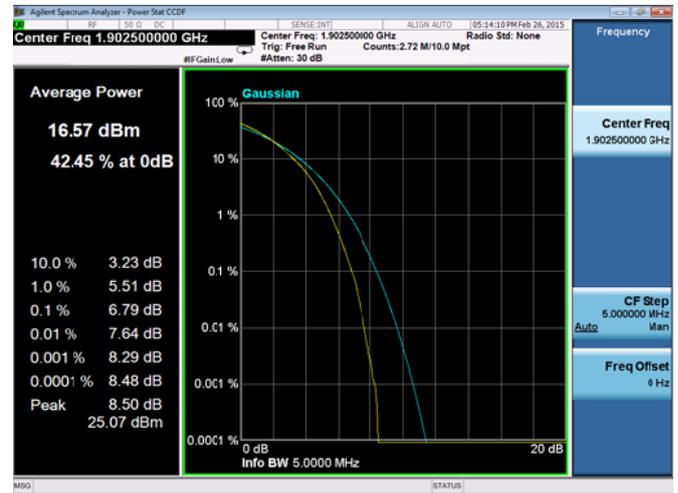
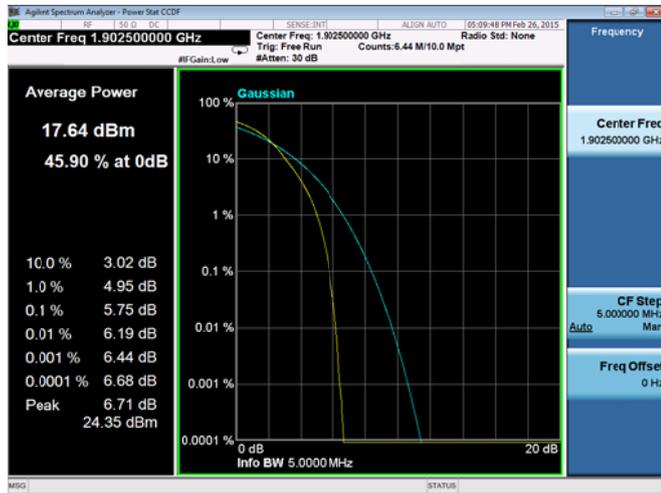




Spectrum Plot of Worst Value

15MHz/QPSK

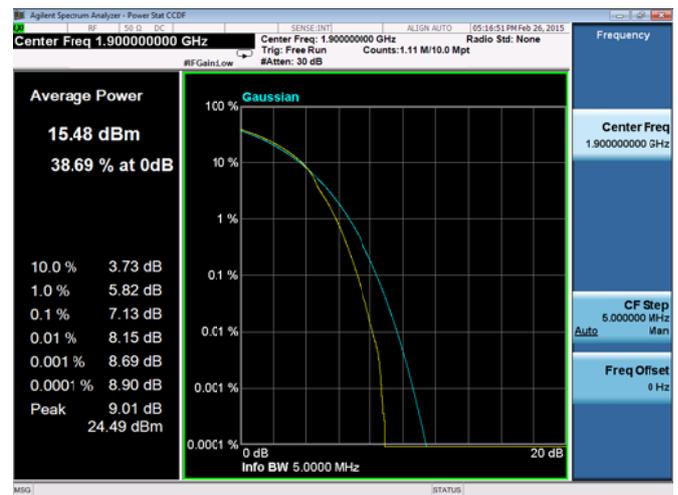
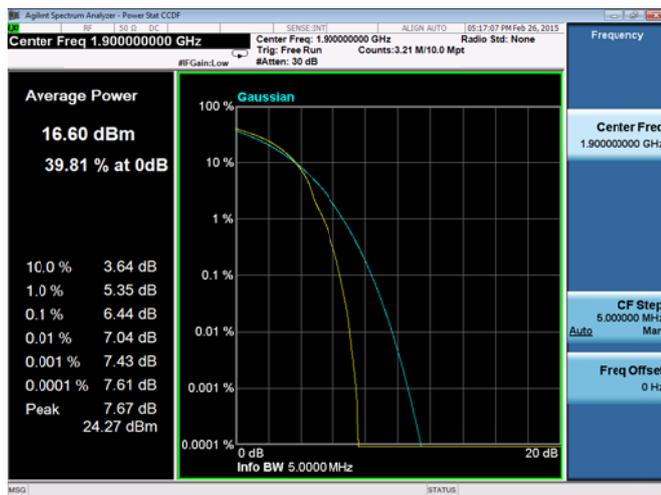
15MHz/16QAM



Spectrum Plot of Worst Value

20MHz/QPSK

20MHz/16QAM





## **4. Conducted Spurious Emissions**

### **1.4.1 Test Requirement**

According to FCC section 2.1051 and 24.238, 27.53(g), 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. This calculated to be -13dBm.

### **1.4.2 Test Procedure**

See section 2.1.2 of this report.

Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

### **1.4.3 Test Result**

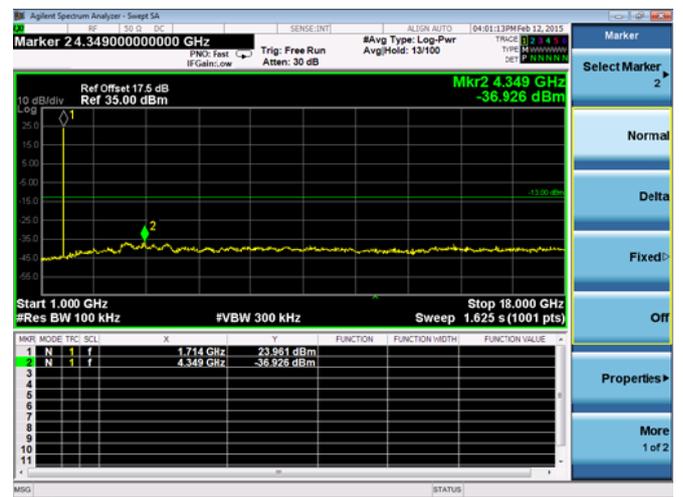
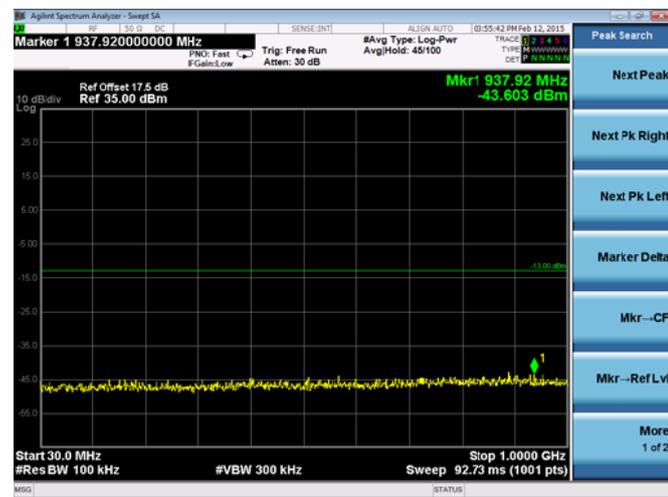
Compliant. See attached pots.



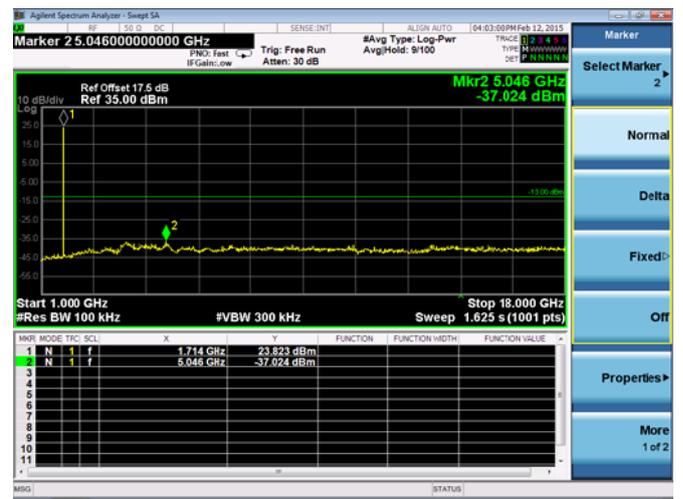
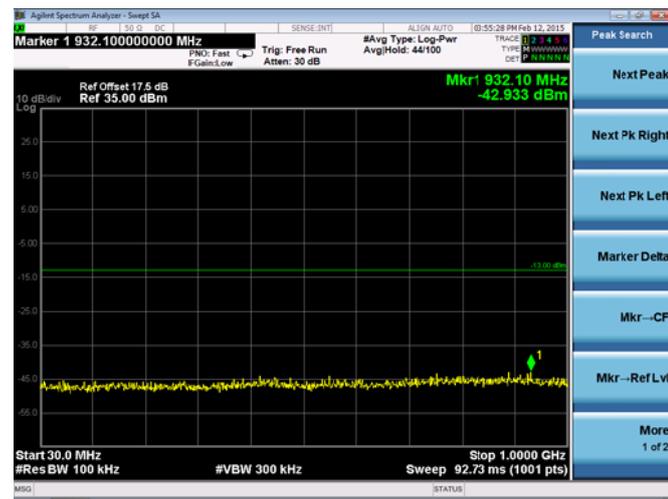
LTE Band 4  
Low channel:

LTE Band 4 1.4MHz BW, Low Channel

QPSK



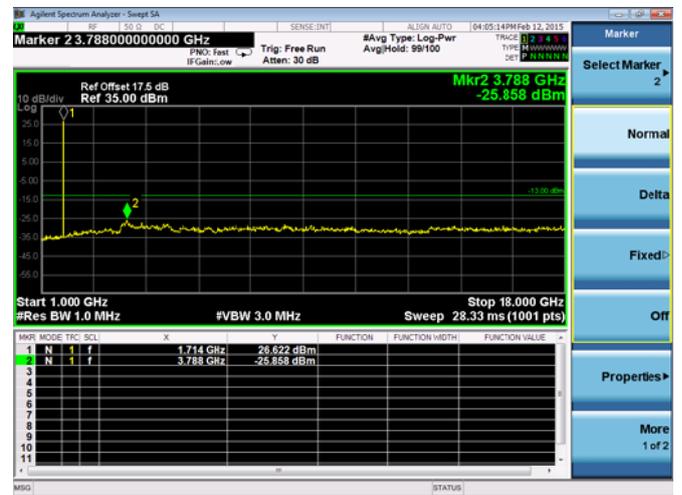
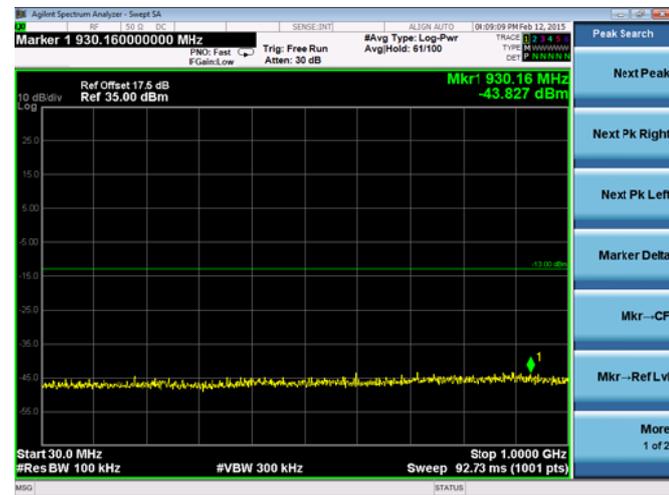
16QAM



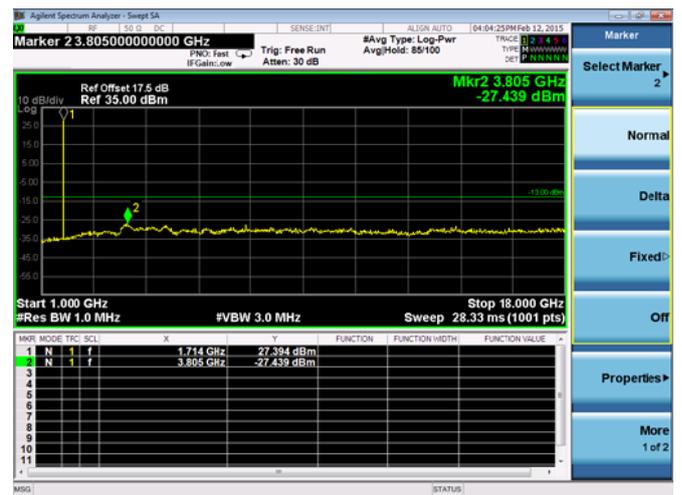
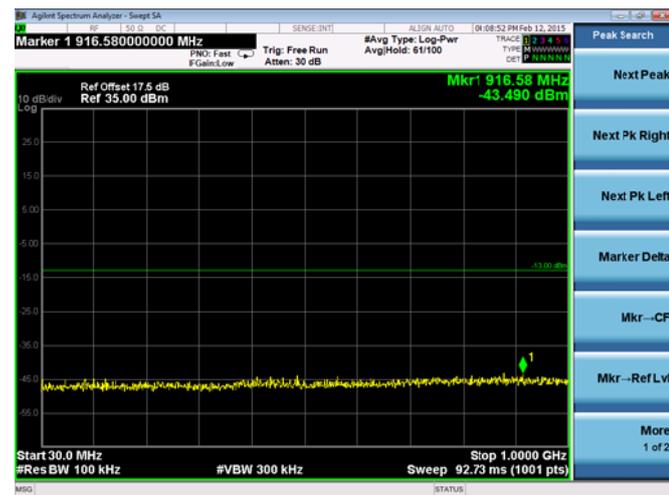


LTE Band 4 3MHz BW, Low Channel

QPSK



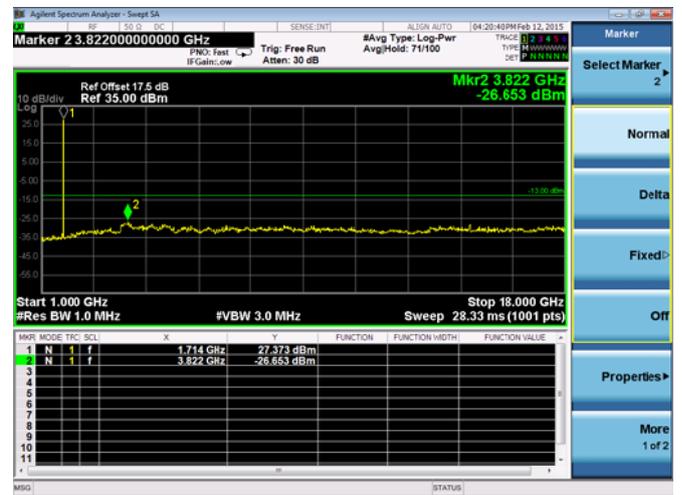
16QAM



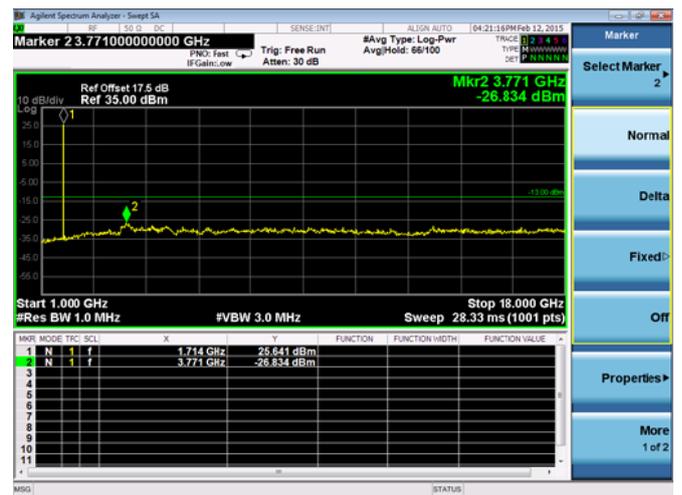
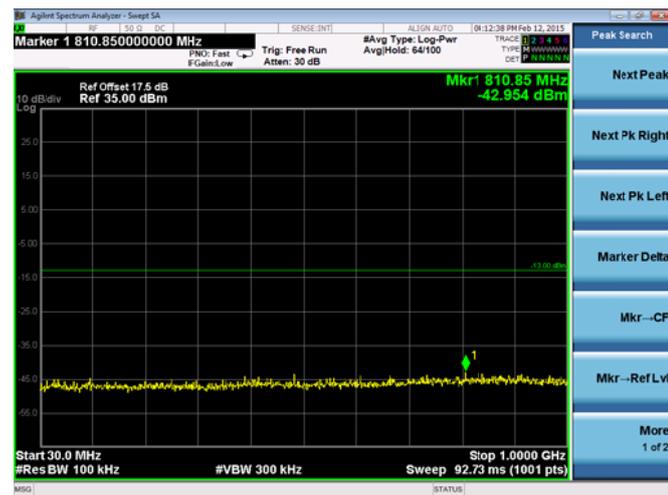


### LTE Band 4 5MHz BW, Low Channel

#### QPSK



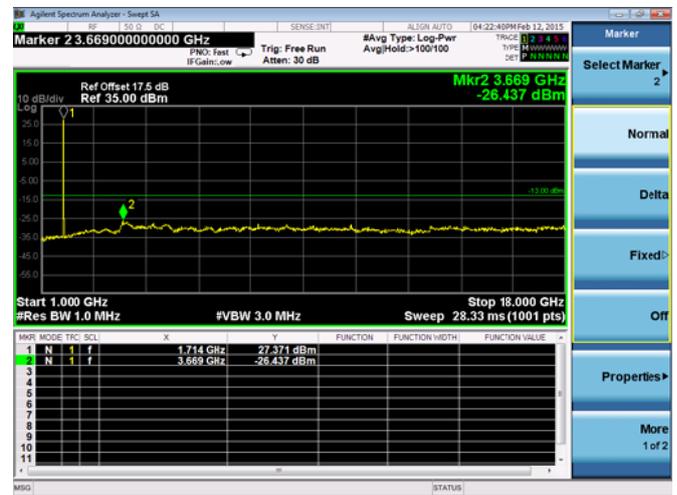
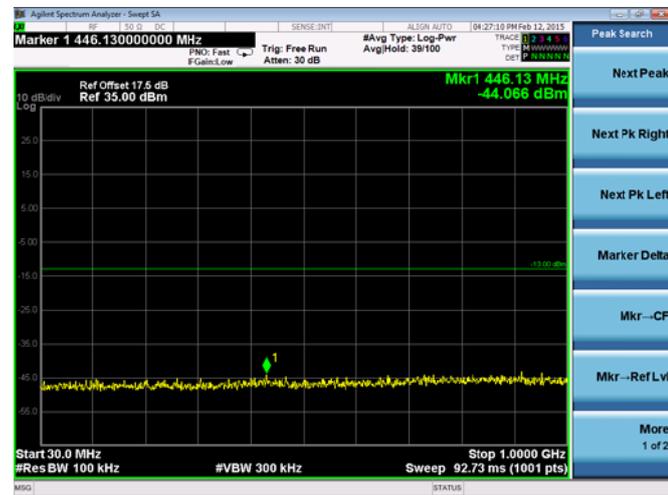
#### 16QAM



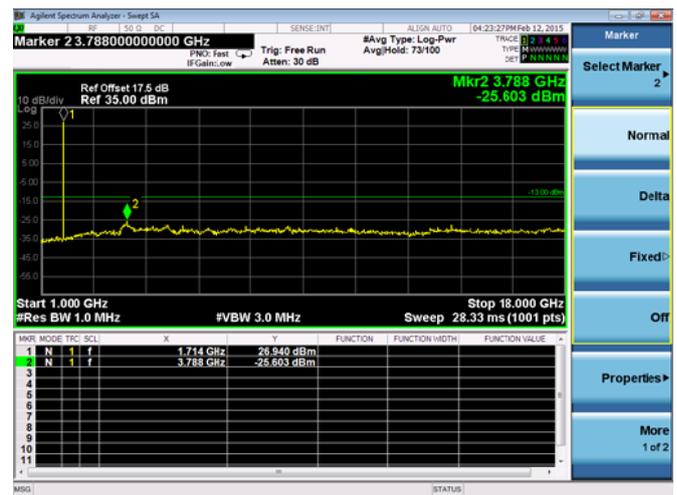
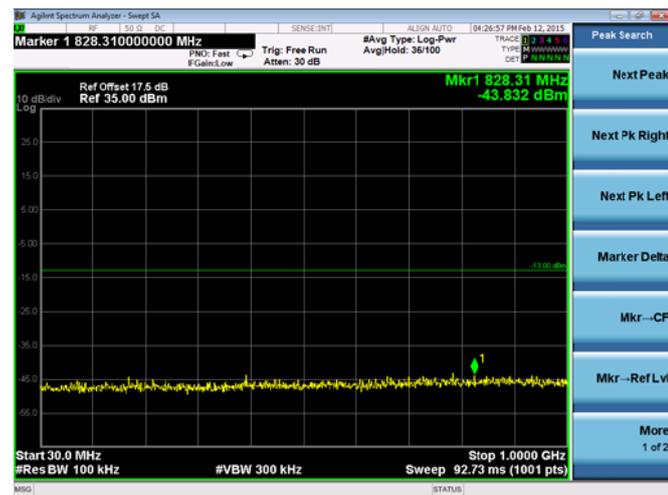


LTE Band 4 10MHz BW, Low Channel

QPSK



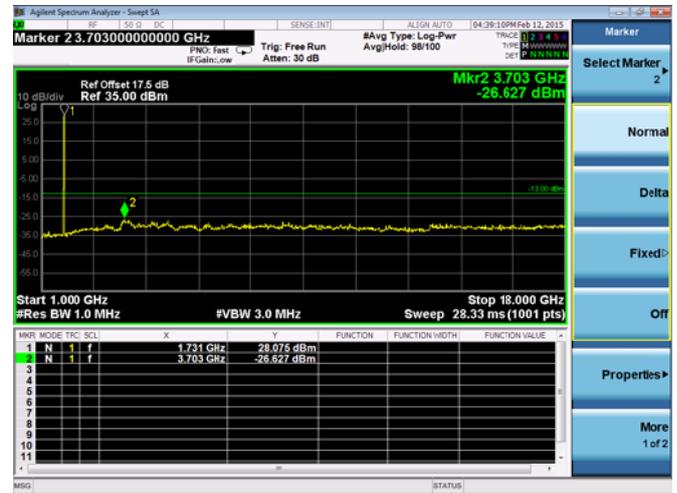
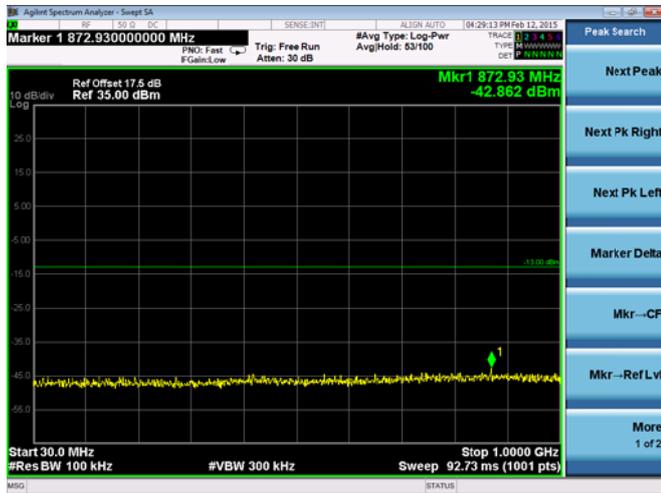
16QAM



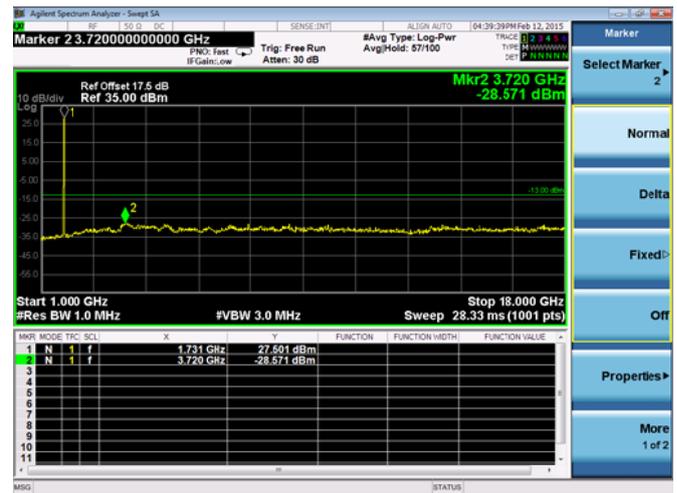
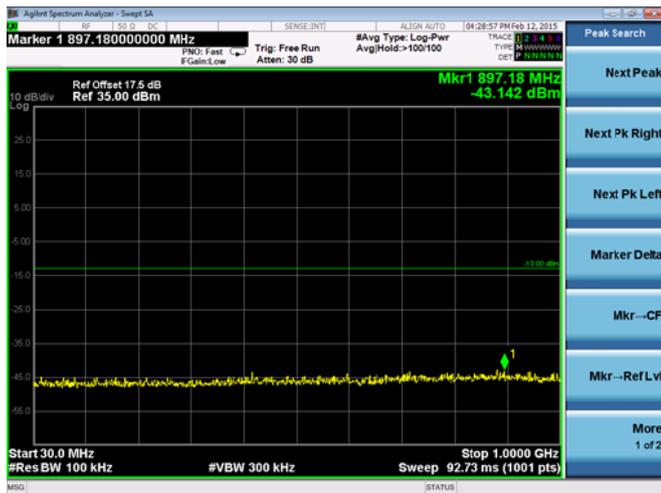


LTE Band 4 15MHz BW, Low Channel

QPSK



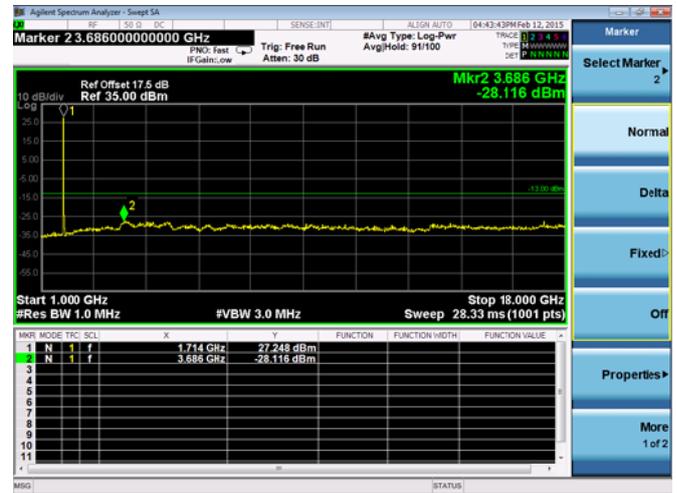
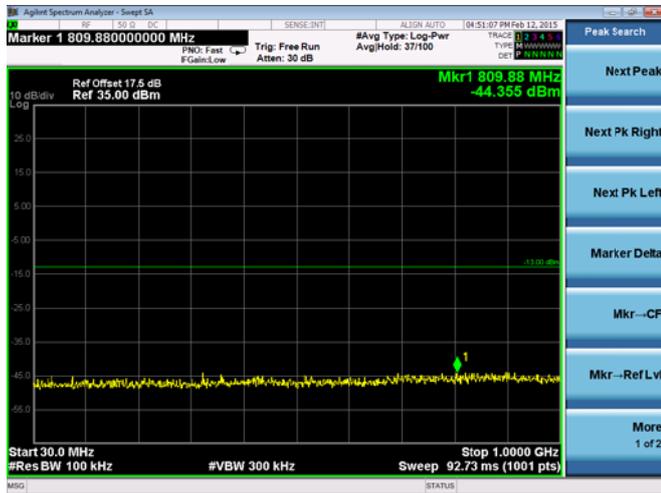
16QAM



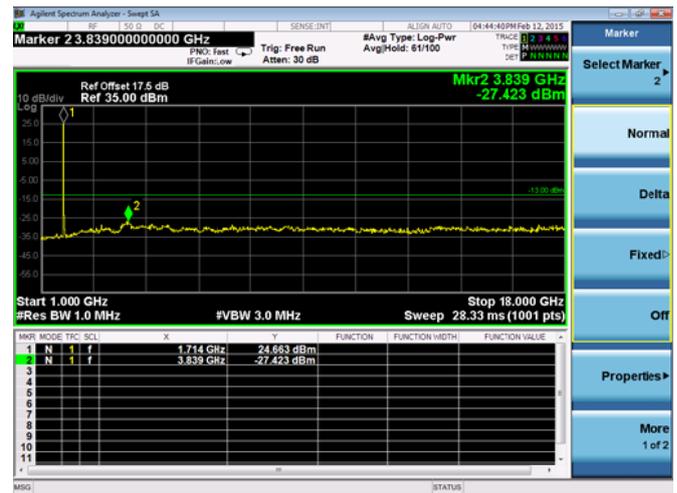
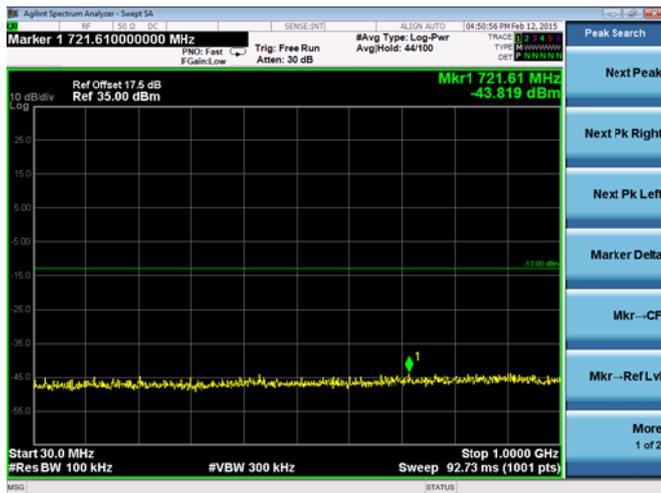


LTE Band 4 20MHz BW, Low Channel

QPSK



16QAM

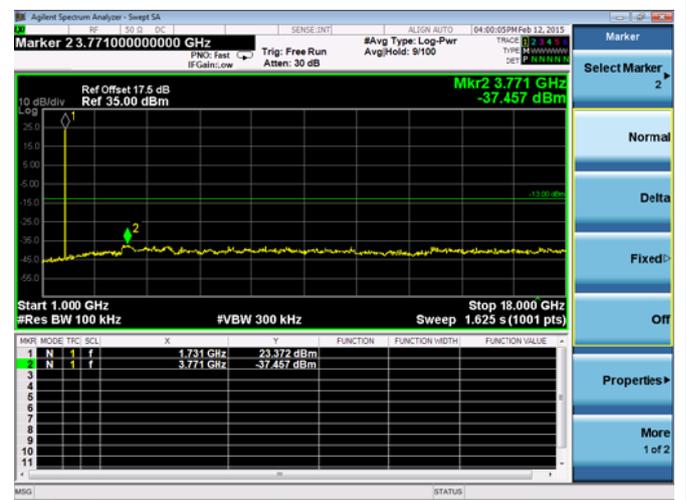
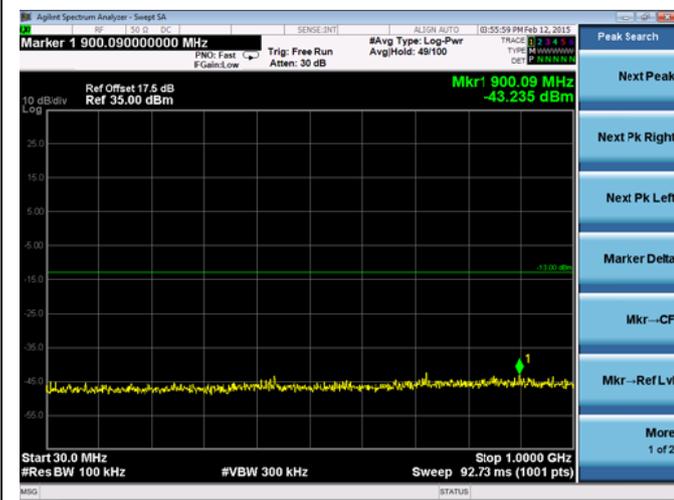




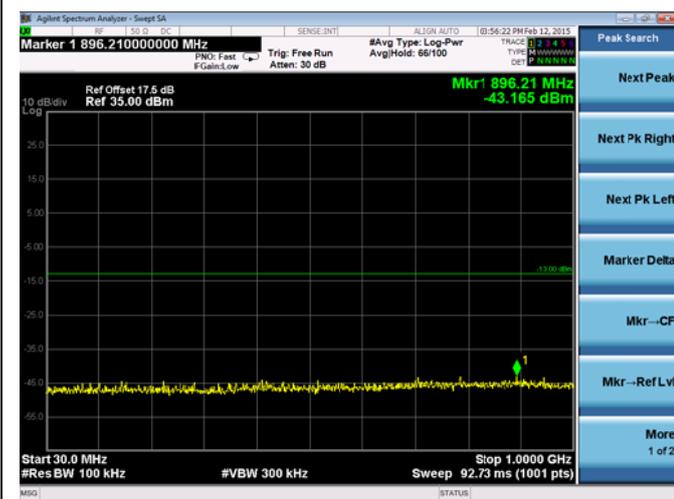
Middle channel:

LTE Band 4 1.4MHz BW, Mid Channel

QPSK



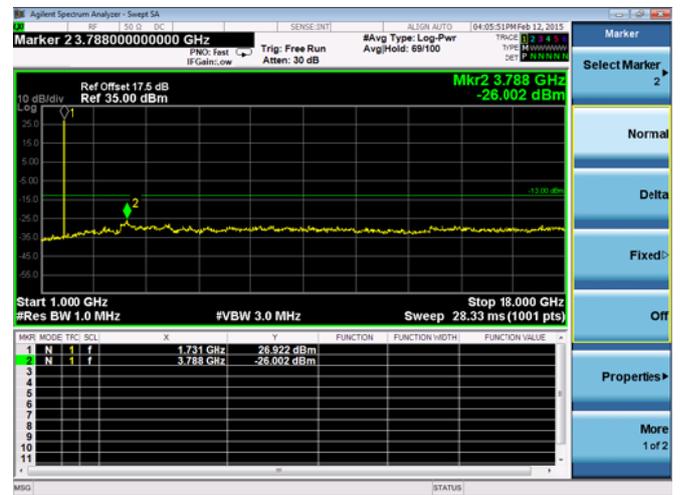
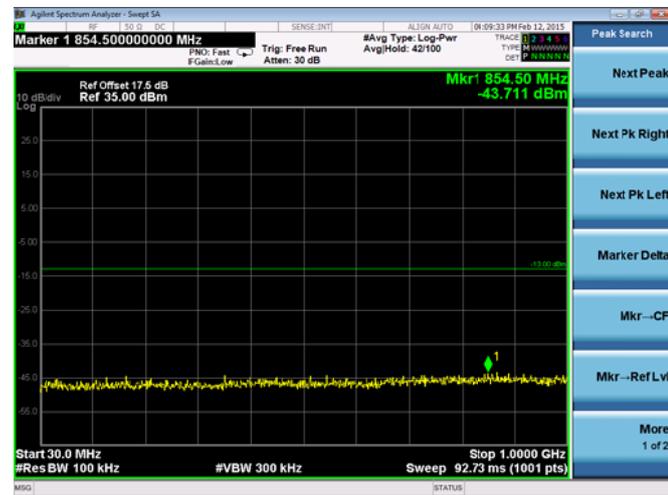
16QAM



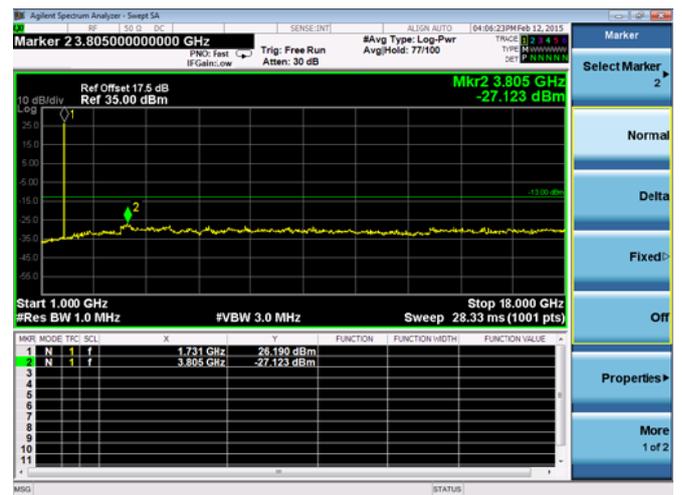
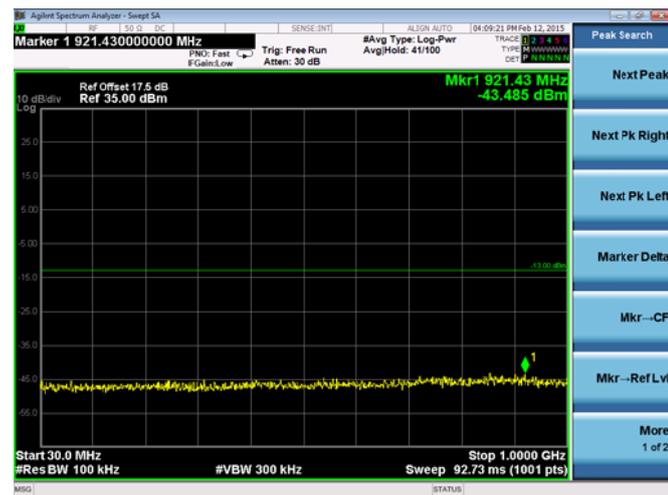


LTE Band 4 3MHz BW, Mid Channel

QPSK



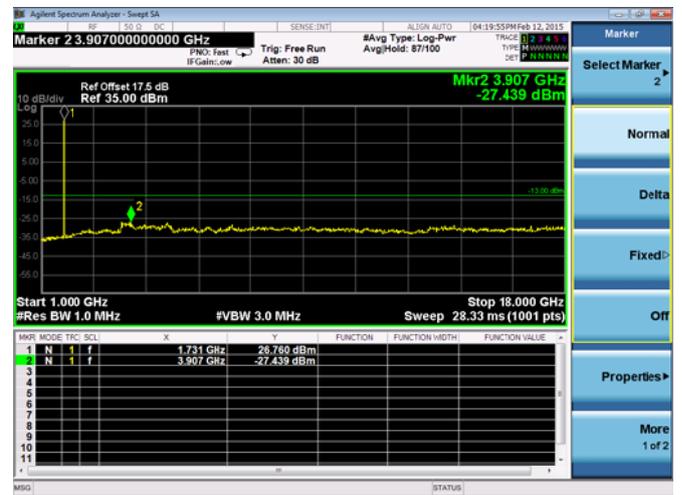
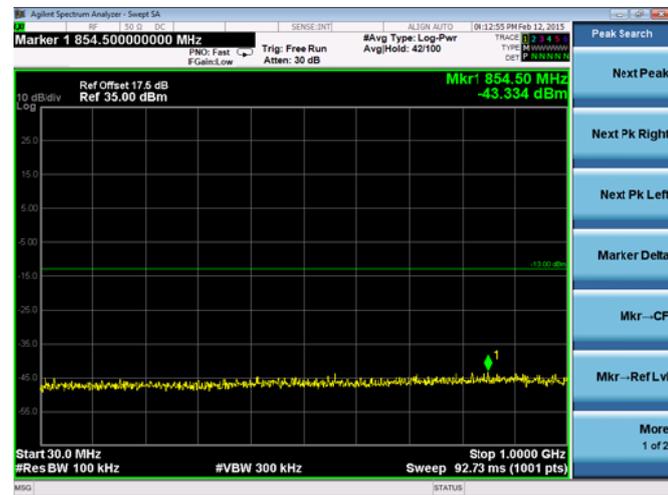
16QAM



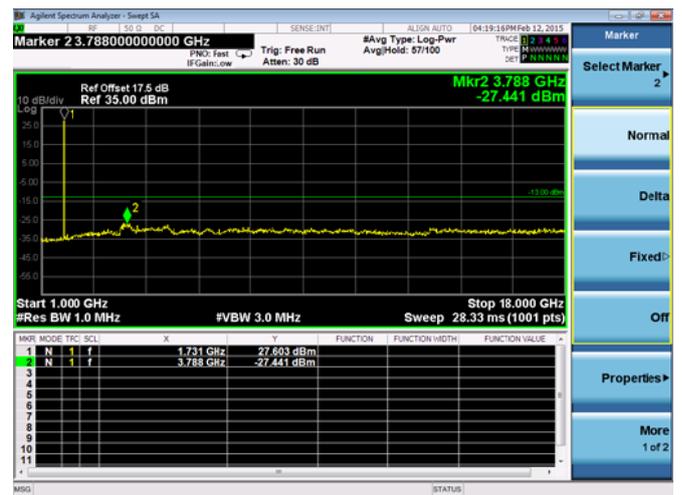
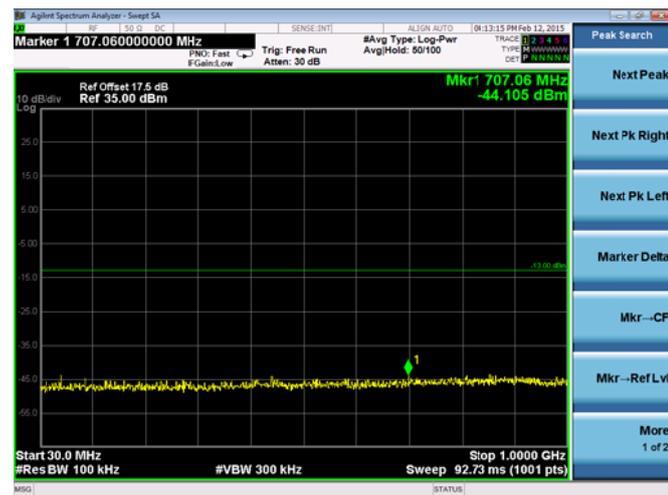


LTE Band 4 5MHz BW, Mid Channel

QPSK



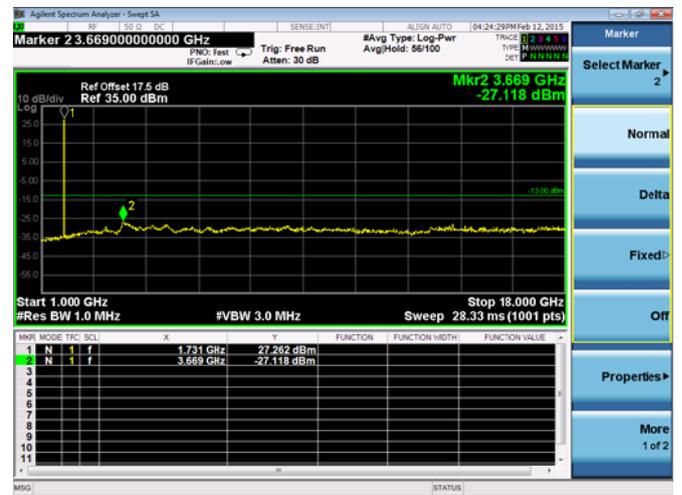
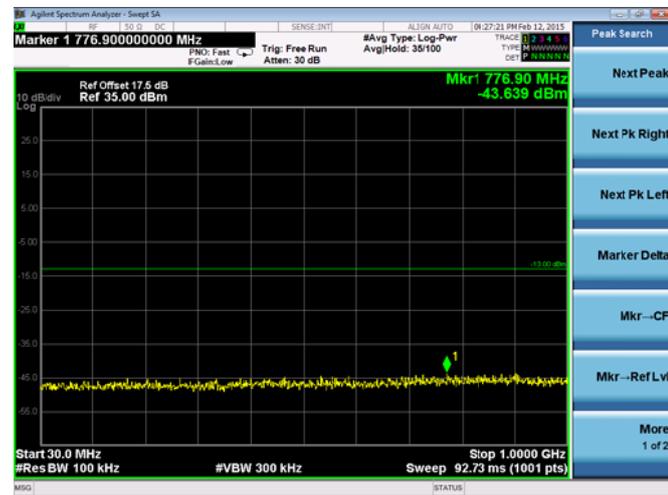
16QAM



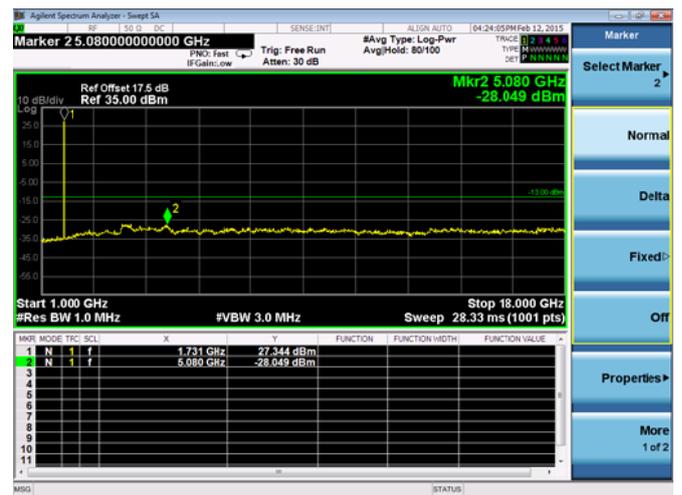
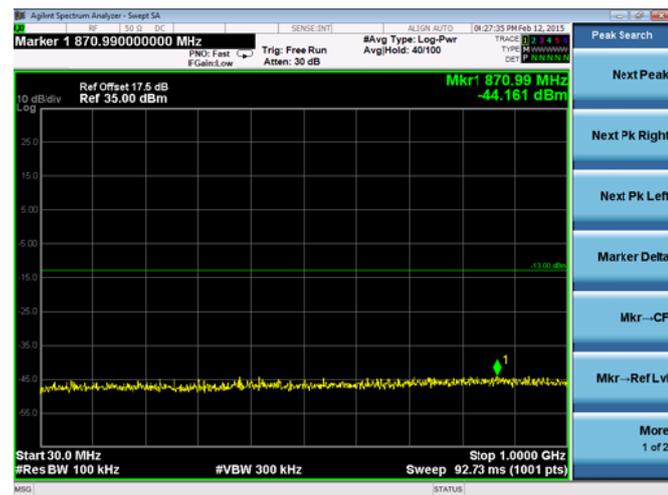


LTE Band 4 10MHz BW, Mid Channel

QPSK



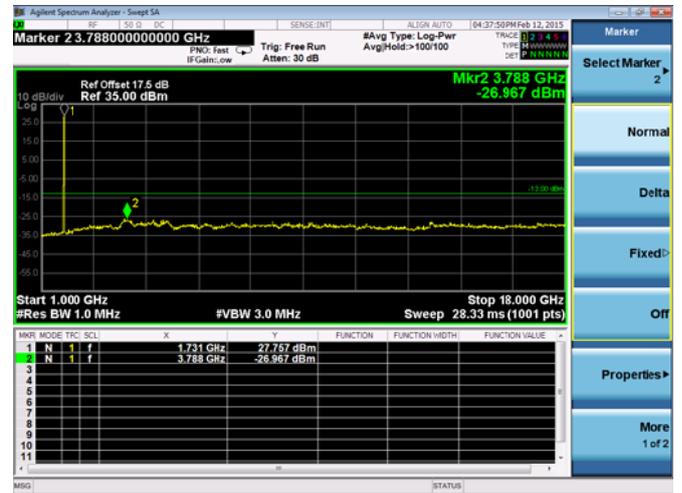
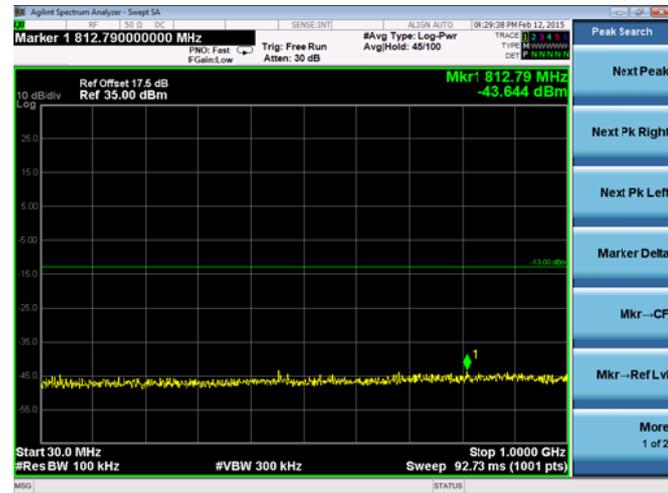
16QAM



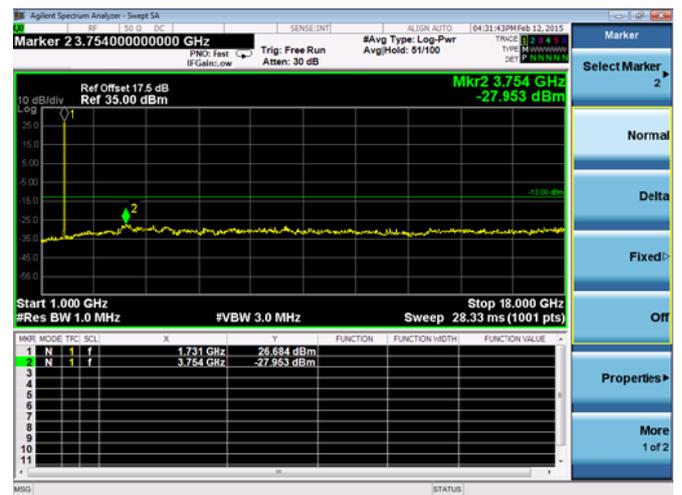
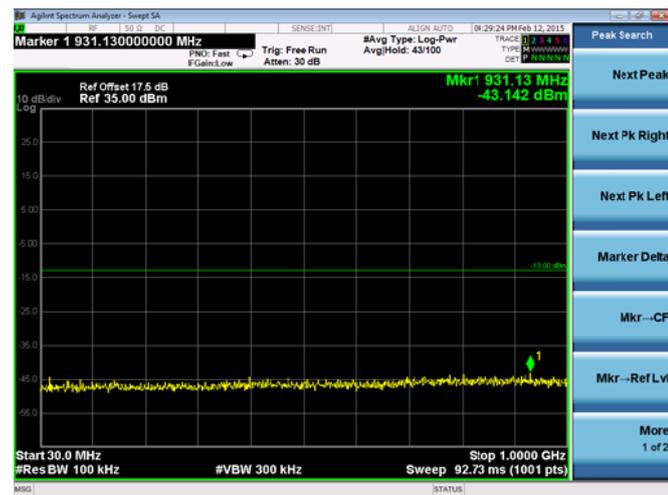


LTE Band 4 15MHz BW, Mid Channel

QPSK



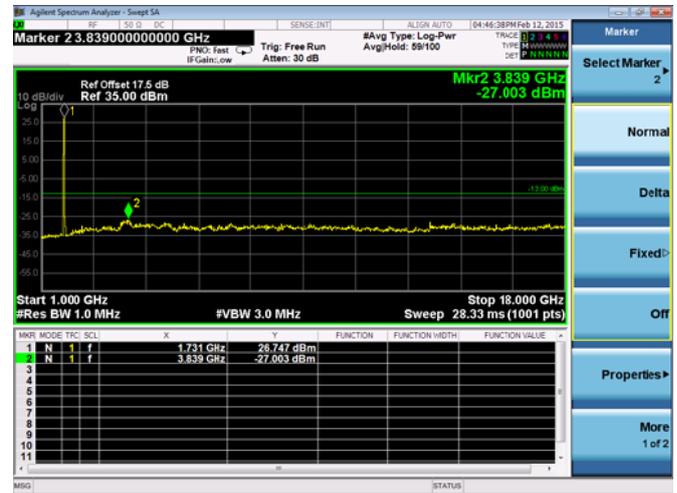
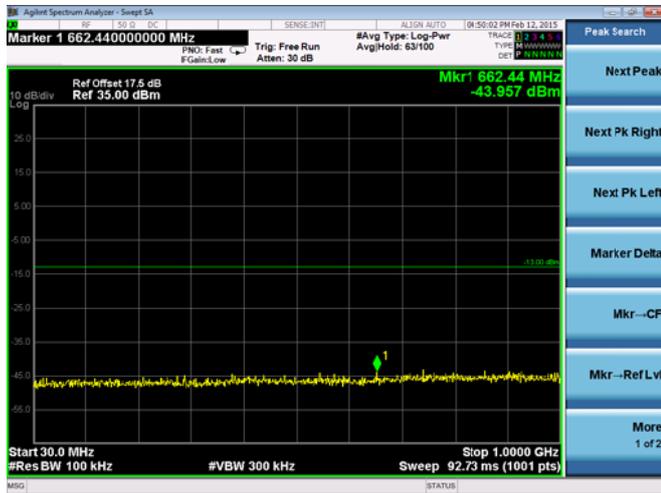
16QAM





LTE Band 4 20MHz BW, Mid Channel

QPSK



16QAM

