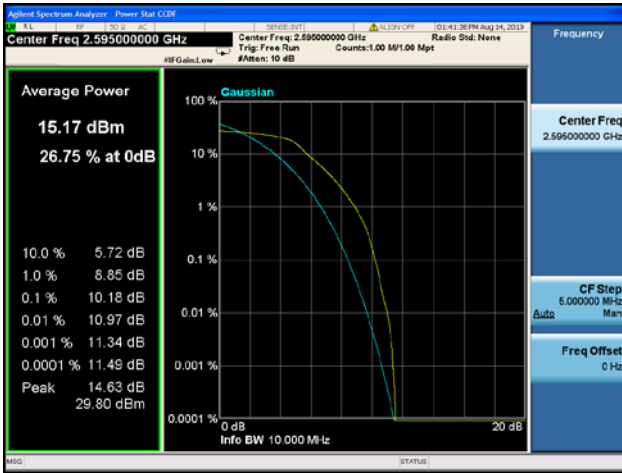
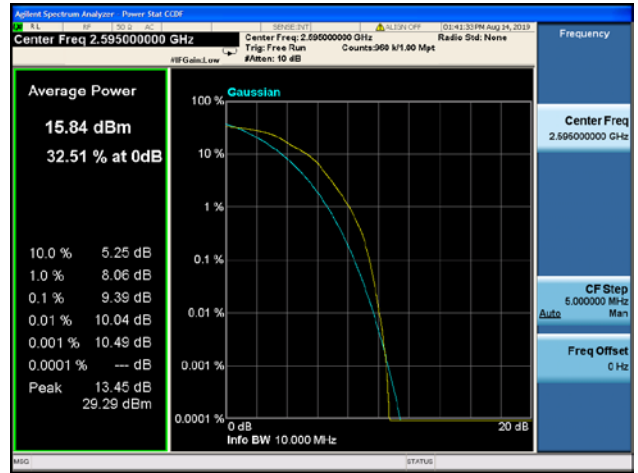




10MHz/QPSK/Mid CH



10MHz/16QAM/Mid CH



10MHz/64QAM/Mid CH



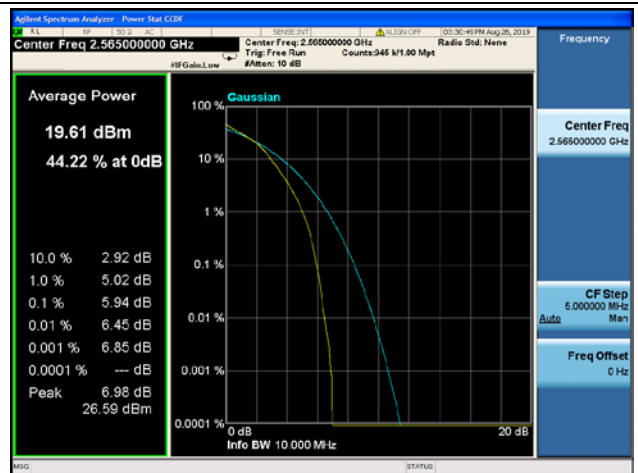
10MHz/QPSK/High CH



10MHz/16QAM/High CH

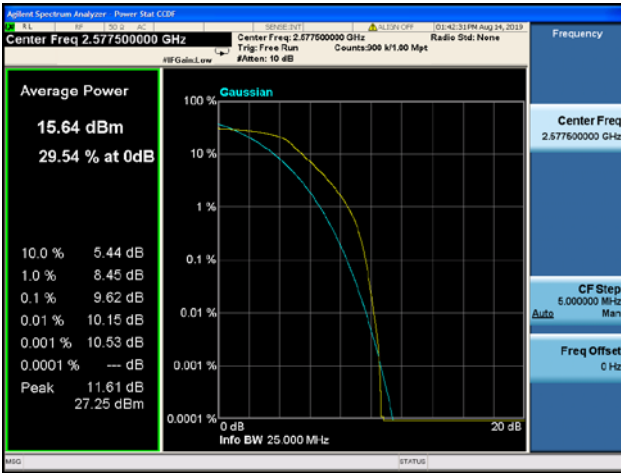


10MHz/64QAM/High CH

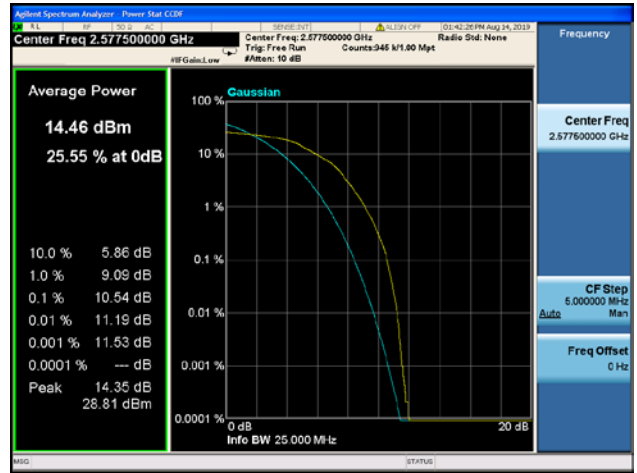




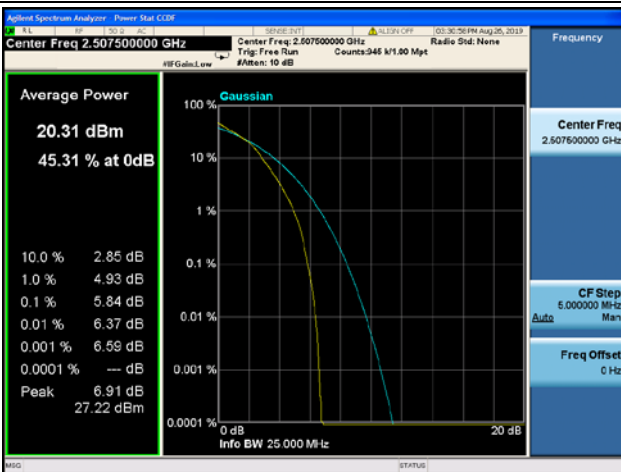
15MHz/QPSK/Low CH



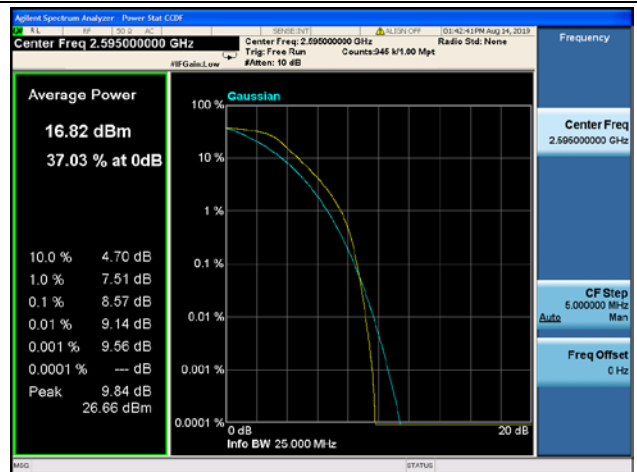
15MHz/16QAM/Low CH



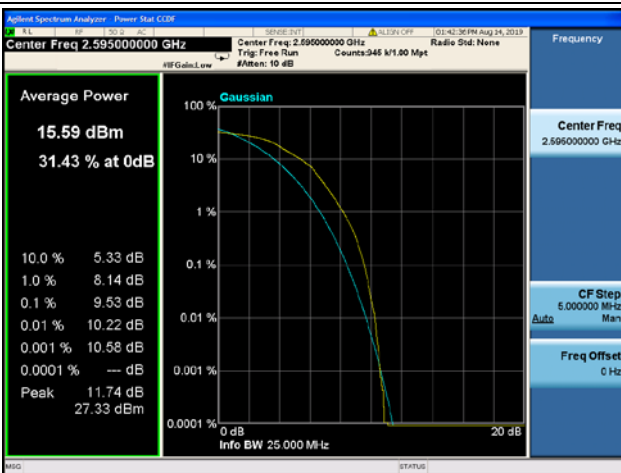
15MHz/64QAM/Low CH



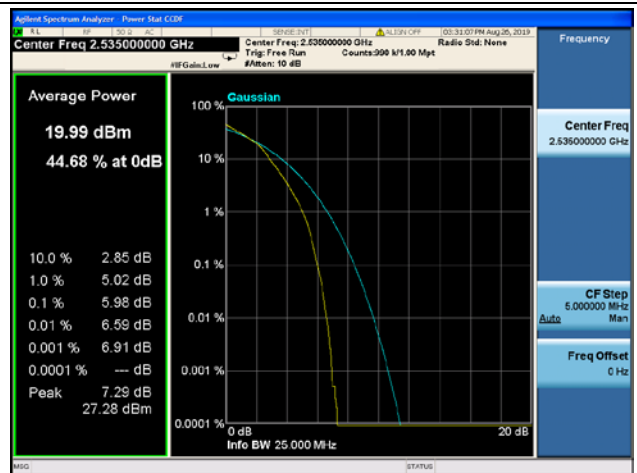
15MHz/QPSK/Mid CH



15MHz/16QAM/Mid CH

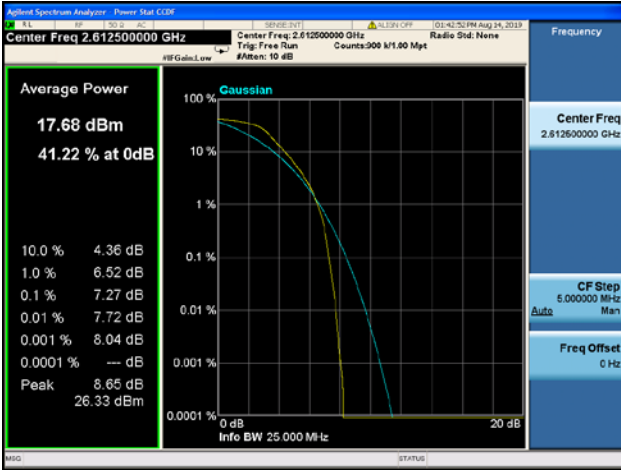


15MHz/64QAM/Mid CH

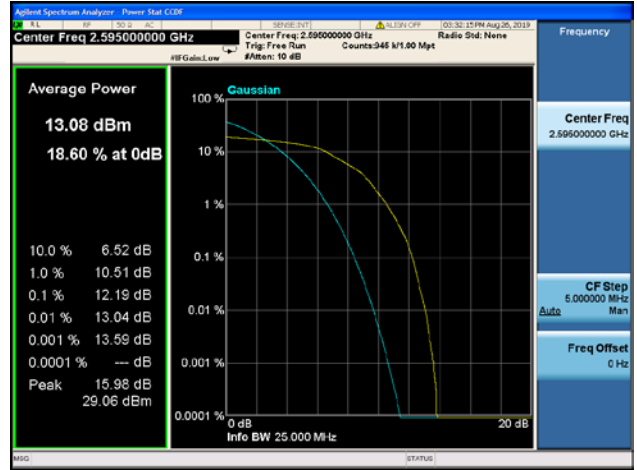




**15MHz/QPSK/High CH**



**15MHz/16QAM/High CH**



**15MHz/64QAM/High CH**



**20MHz/QPSK/Low CH**



**20MHz/16QAM/Low CH**

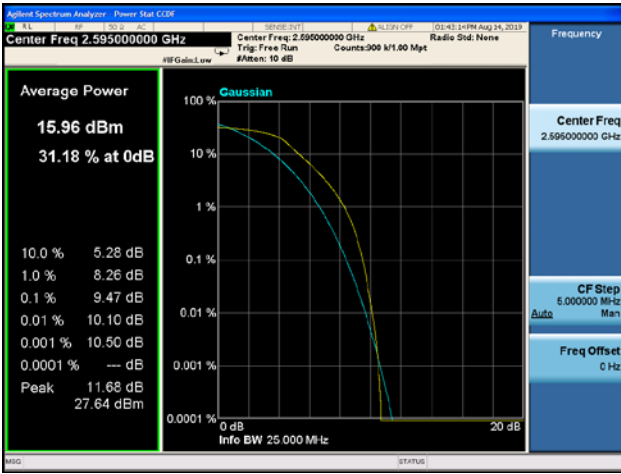


**20MHz/64QAM/Low CH**

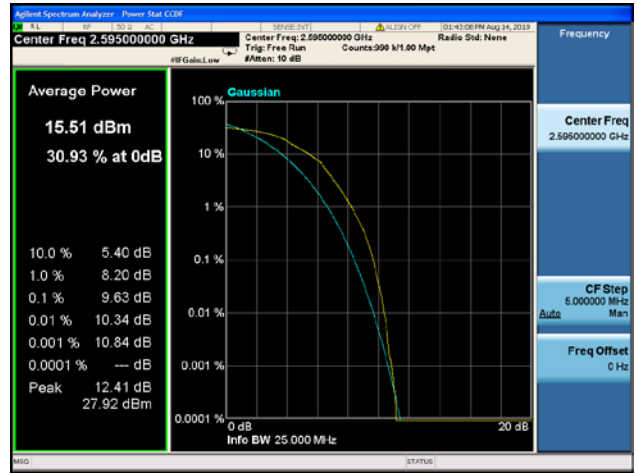




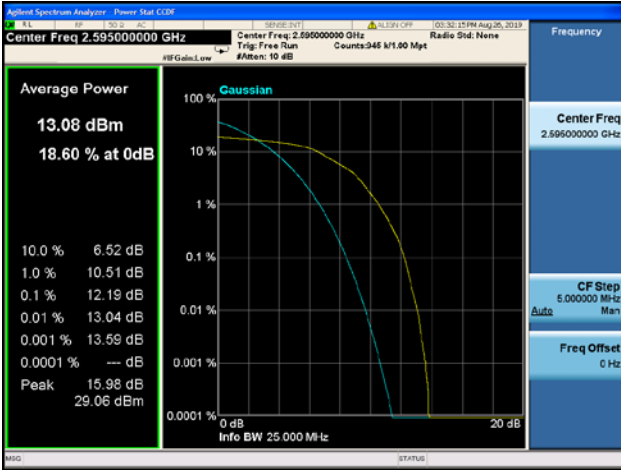
**20MHz/QPSK/Mid CH**



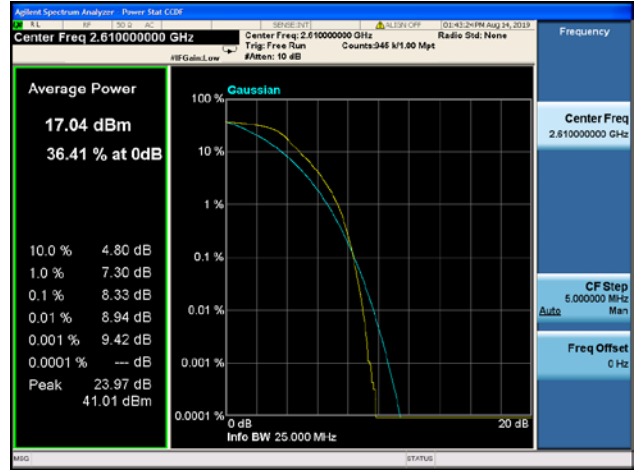
**20MHz/16QAM/Mid CH**



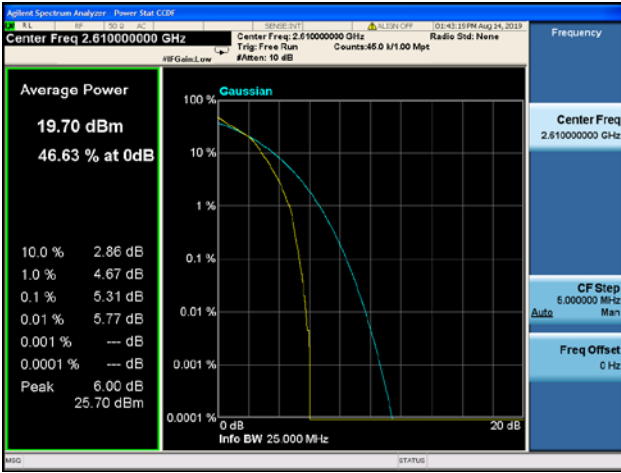
**20MHz/64QAM/Mid CH**



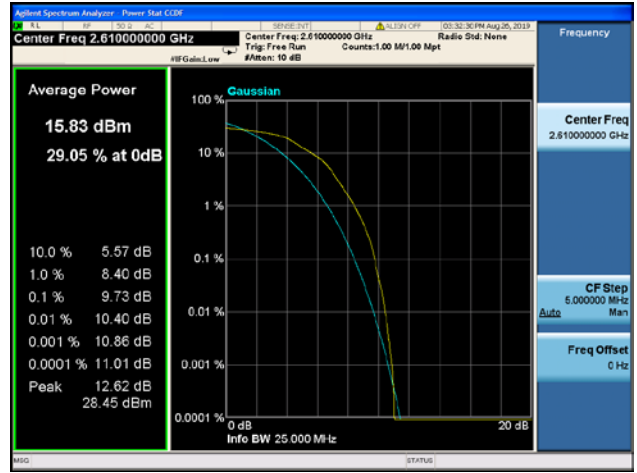
**20MHz/QPSK/High CH**



**20MHz/16QAM/High CH**



**20MHz/64QAM/High CH**





<b>LTE Band 40 (2305MHz ~ 2315MHz),BW: 5MHz</b>				
Channel	Frequency (MHz)	Peak to Average Ratio(dB)		
		QPSK	16QAM	64QAM
38750	2307.5	9.05	9.73	9.54
38750	2310	9.20	9.33	10.19
38775	2312.5	8.95	9.51	10.11

<b>LTE Band 40 (2305MHz ~ 2315MHz),BW: 10MHz</b>				
Channel	Frequency (MHz)	Peak to Average Ratio(dB)		
		QPSK	16QAM	64QAM
/	/	/	/	/
38750	2310	9.92	10.21	9.63
/	/	/	/	/

<b>LTE Band 40(2350MHz ~ 2360MHz),BW: 5MHz</b>				
Channel	Frequency (MHz)	Peak to Average Ratio(dB)		
		QPSK	16QAM	64QAM
39175	2342.5	9.34	9.51	9.53
39200	2355	9.44	9.61	9.52
39225	2357.5	9.16	9.32	9.65

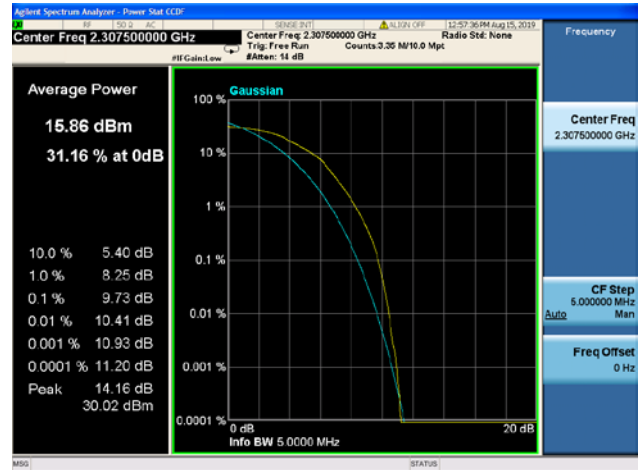
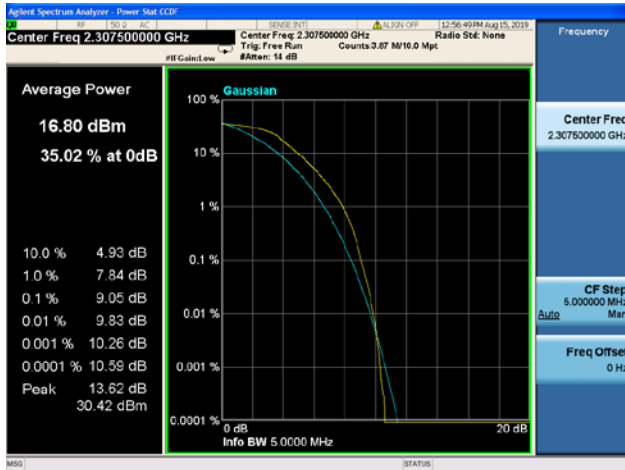
<b>LTE Band 40(2350MHz ~ 2360MHz),BW: 10MHz</b>				
Channel	Frequency (MHz)	Peak to Average Ratio(dB)		
		QPSK	16QAM	64QAM
/	/	/	/	/
39200	2355	8.46	9.10	9.55
/	/	/	/	/



LTE Band 40(2305MHz ~ 2315MHz) Peak to Average Ratio

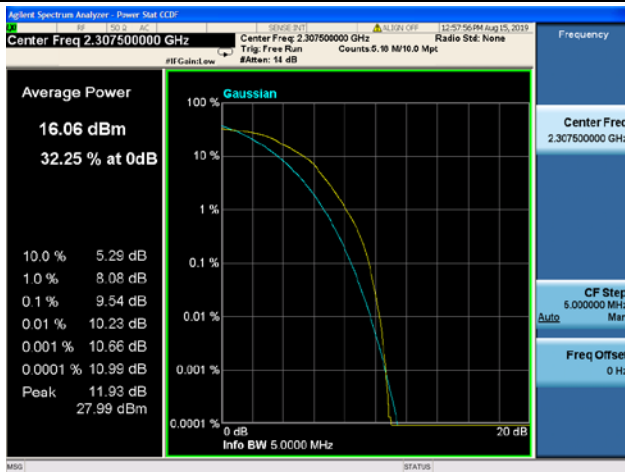
5MHz/QPSK/Low CH

5MHz/16QAM/Low CH



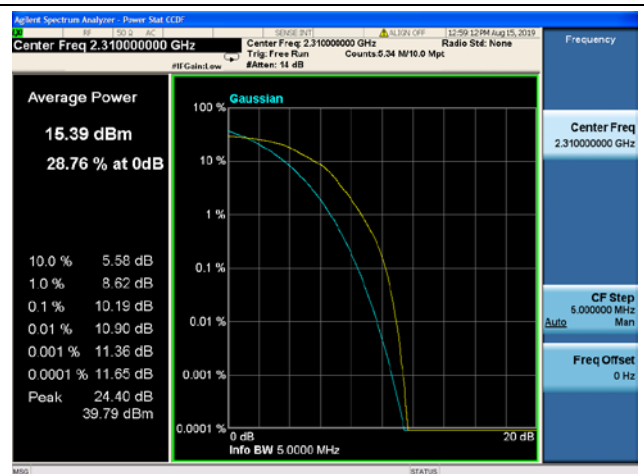
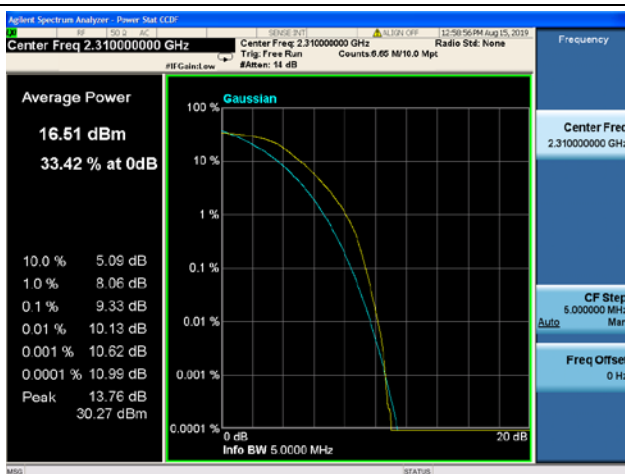
5MHz/64QAM/Low CH

5MHz/QPSK/Mid CH



5MHz/16QAM/Mid CH

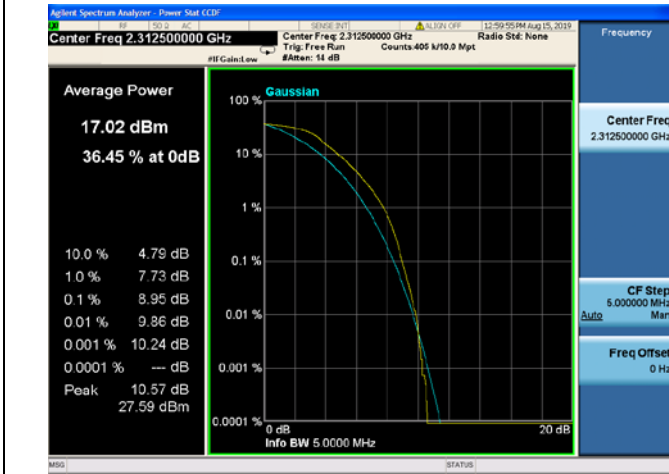
5MHz/64QAM/Mid CH



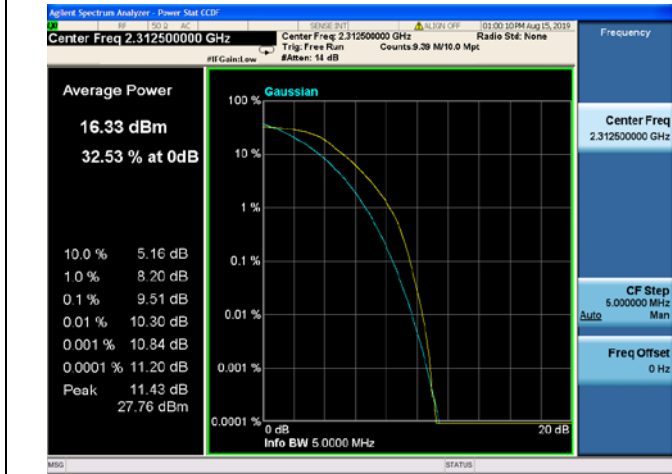




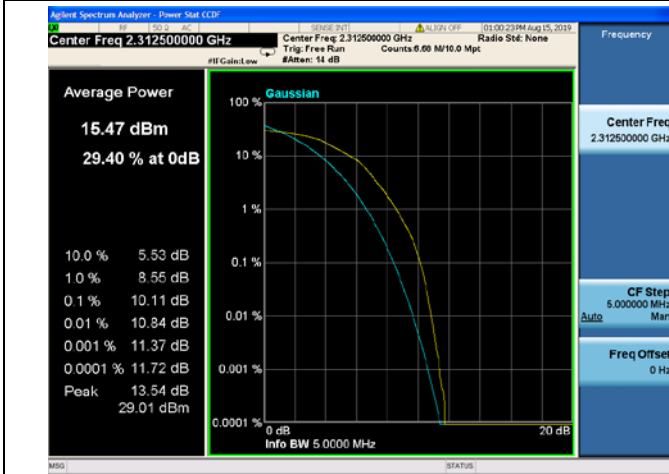
**5MHz/QPSK/High CH**



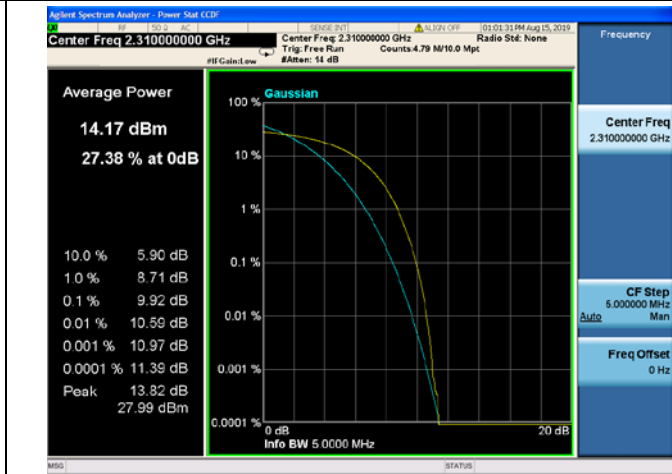
**5MHz/16QAM/High CH**



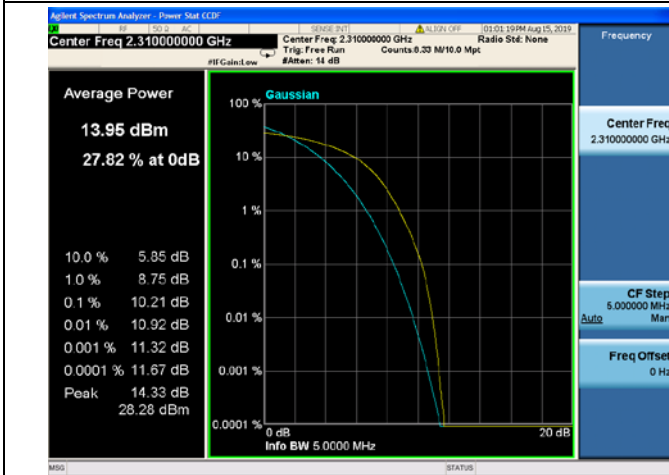
**5MHz/64QAM/High CH**



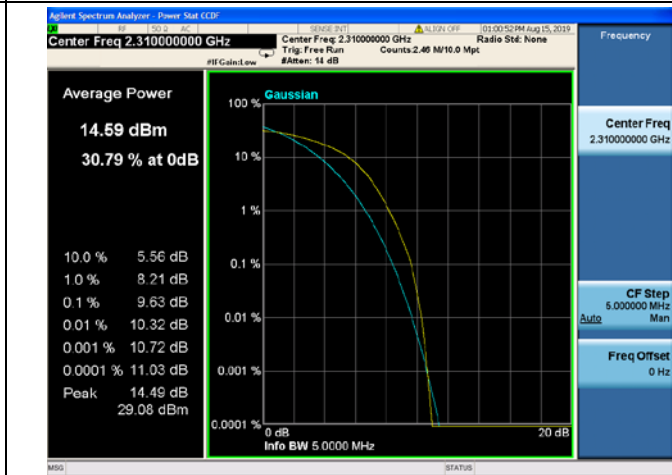
**10MHz/QPSK/Mid CH**



**10MHz/16QAM/Mid CH**



**10MHz/64QAM/Mid CH**

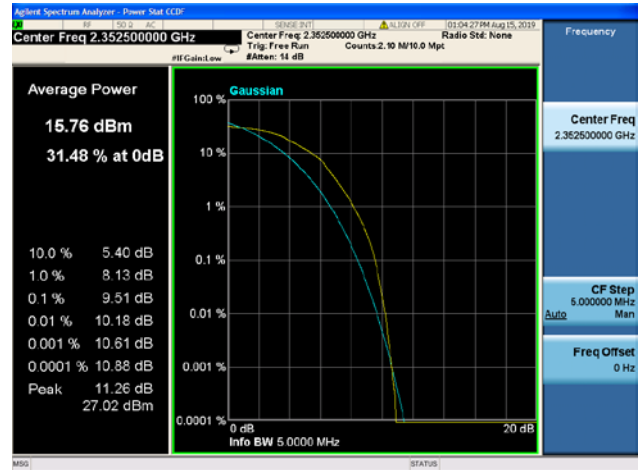
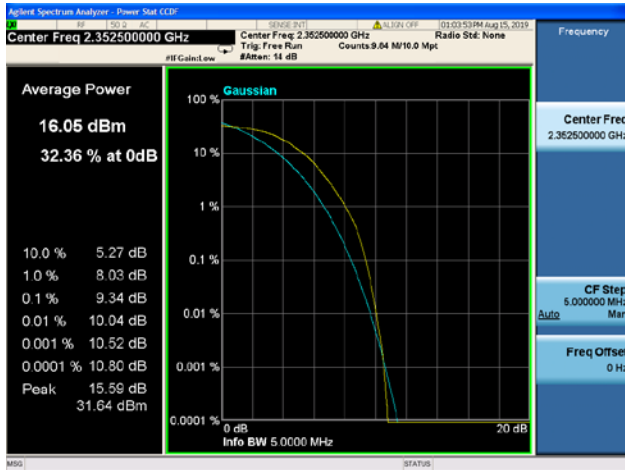




LTE Band 40(2305MHz ~ 2315MHz) Peak to Average Ratio

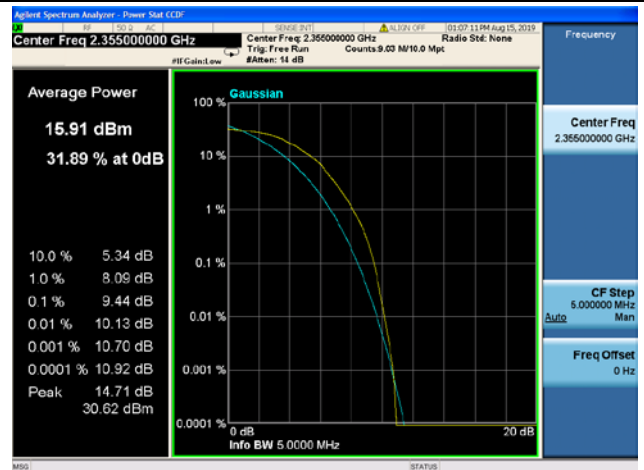
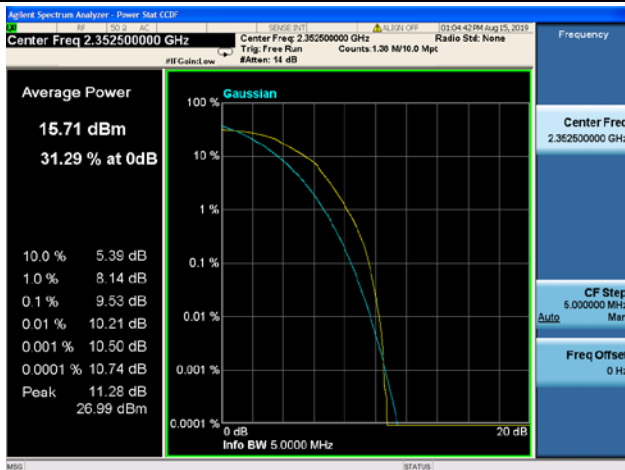
5MHz/QPSK/Low CH

5MHz/16QAM/Low CH



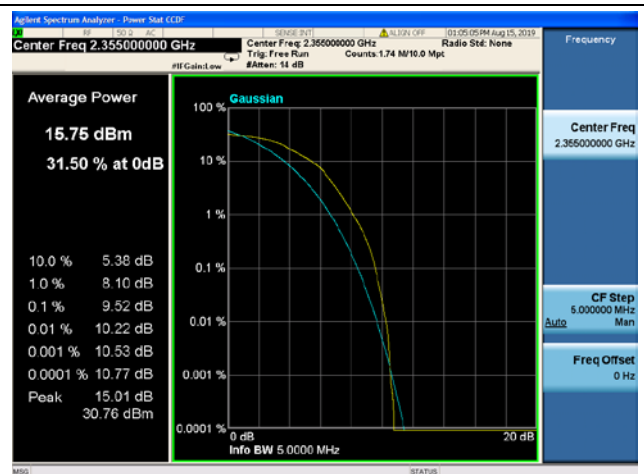
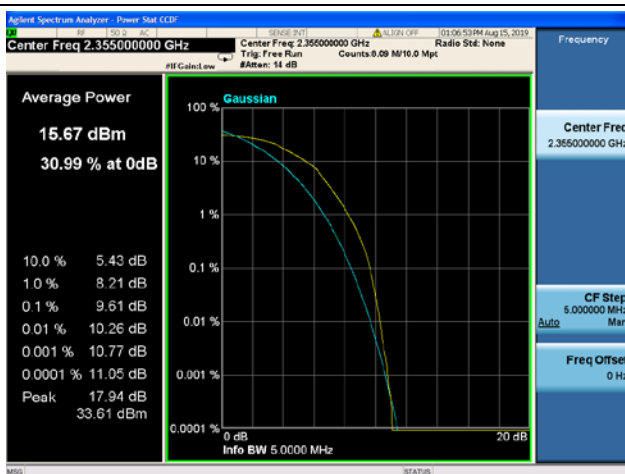
5MHz/64QAM/Low CH

5MHz/QPSK/Mid CH



5MHz/16QAM/Mid CH

5MHz/64QAM/Mid CH

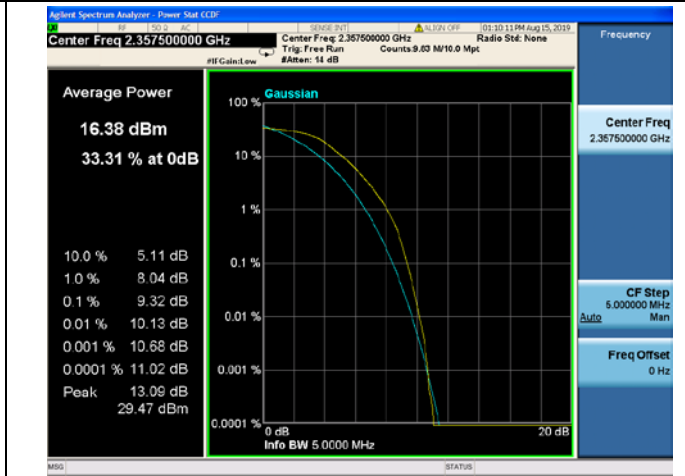
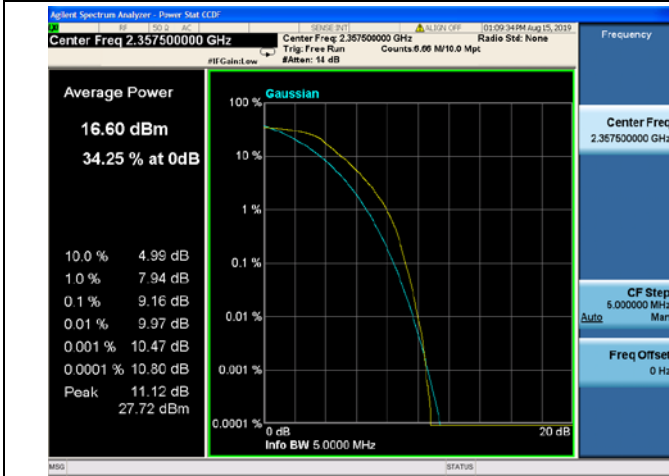






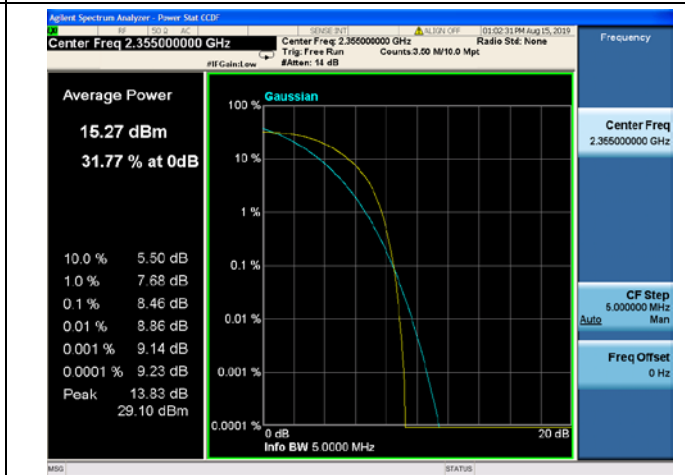
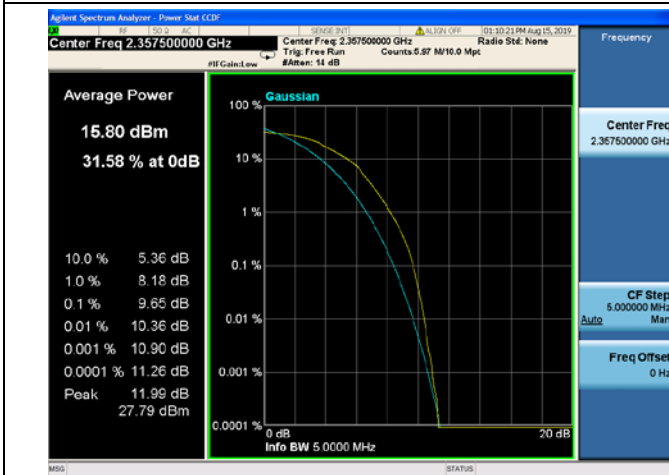
**5MHz/QPSK/High CH**

**5MHz/16QAM/High CH**



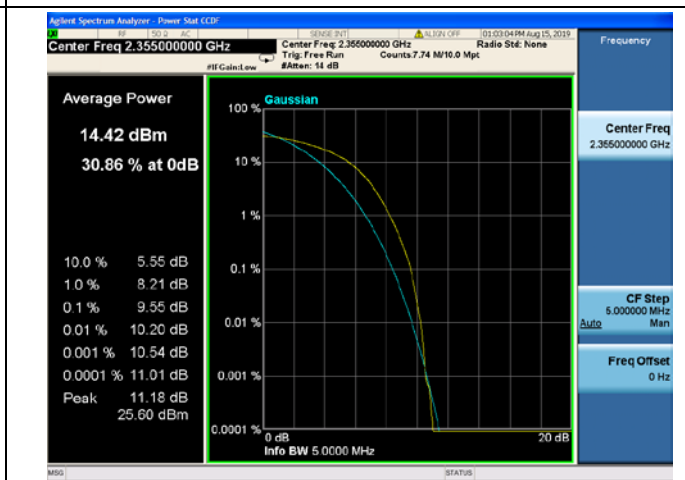
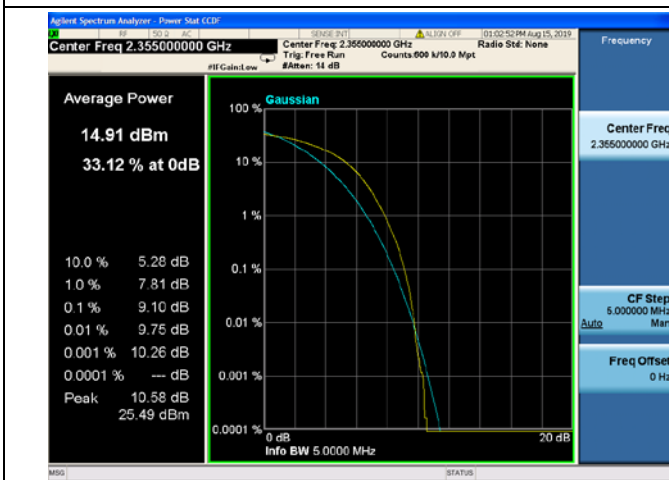
**5MHz/64QAM/High CH**

**10MHz/QPSK/Mid CH**



**10MHz/16QAM/Mid CH**

**10MHz/64QAM/Mid CH**



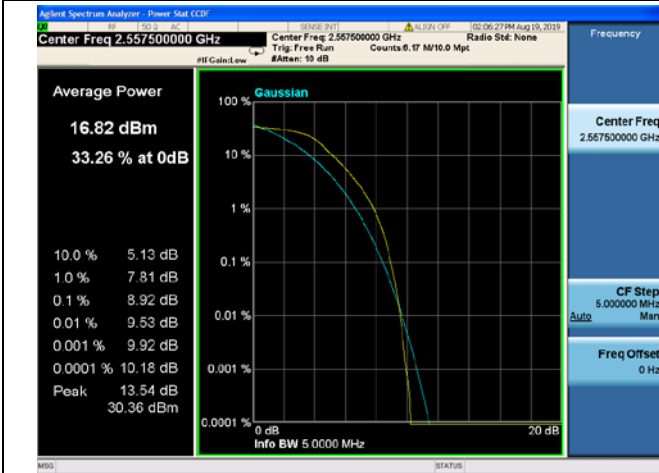


<b>LTE Band 41,BW: 5MHz</b>				
Channel	Frequency (MHz)	Peak to Average Radio(dB)		
		QPSK	16QAM	64QAM
40265	2557.5	8.92	9.89	9.75
40740	2605	9.16	9.46	9.52
41215	2652.5	8.93	9.51	9.56
<b>LTE Band 41,BW: 10MHz</b>				
Channel	Frequency (MHz)	Peak to Average Radio(dB)		
		QPSK	16QAM	64QAM
40290	2550	8.32	9.54	9.51
40740	2605	8.44	8.71	10.01
41190	2650	8.42	9.63	10.21
<b>LTE Band 41,BW: 15MHz</b>				
Channel	Frequency (MHz)	Peak to Average Radio(dB)		
		QPSK	16QAM	64QAM
40315	2562.5	9.63	9.83	10.30
40740	2605	9.43	9.78	10.40
41165	2647.5	9.62	9.09	10.28
<b>LTE Band 41,BW: 20MHz</b>				
Channel	Frequency (MHz)	Peak to Average Radio(dB)		
		QPSK	16QAM	64QAM
40340	2565	10.08	10.32	10.26
40740	2605	10.05	10.56	10.50
41140	2645	10.02	10.35	10.50

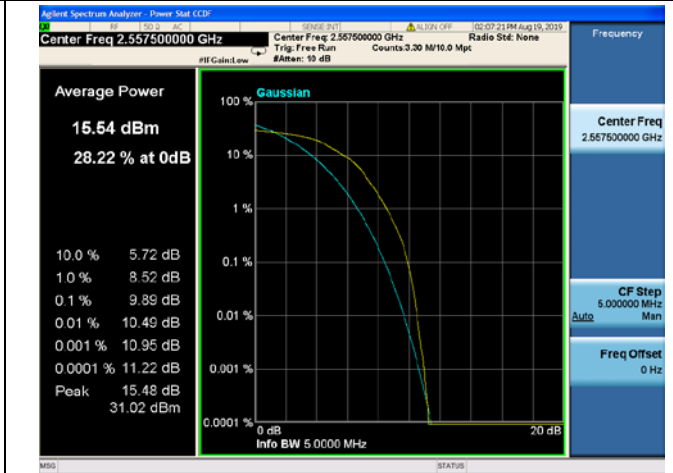


LTE Band 41 Peak to Average Ratio

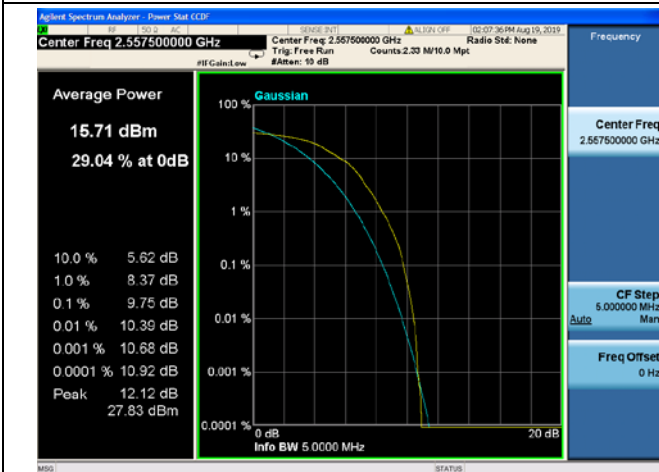
5MHz/QPSK/Low CH



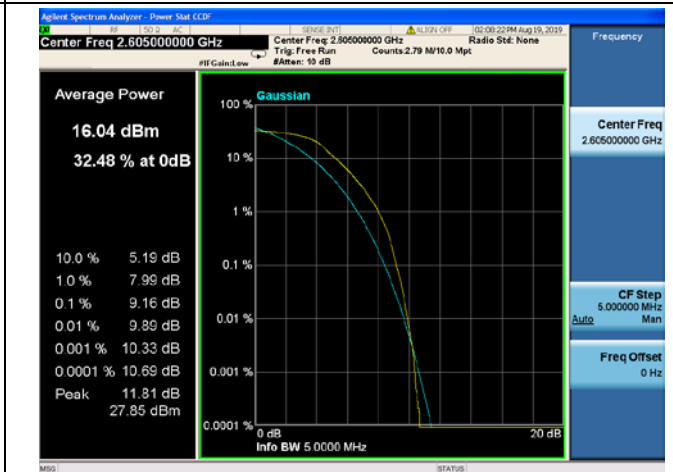
5MHz/16QAM/Low CH



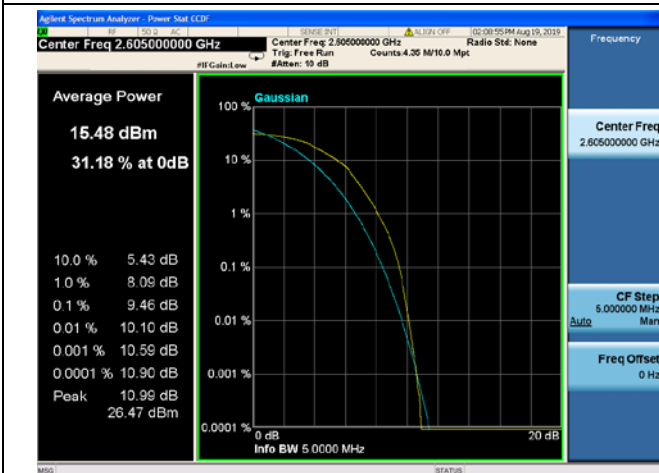
5MHz/64QAM/Low CH



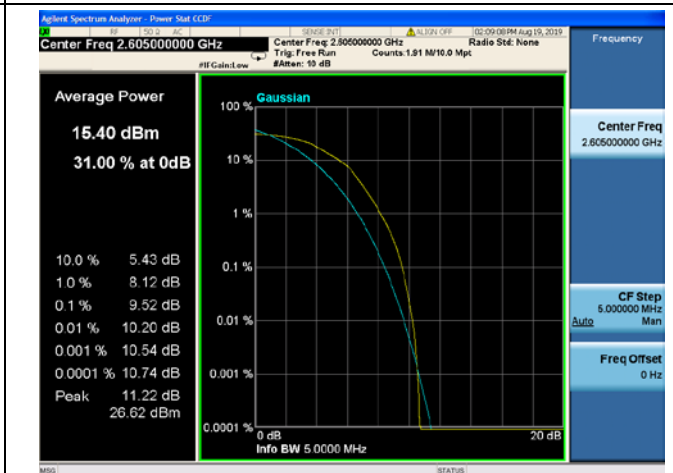
5MHz/QPSK/Mid CH



5MHz/16QAM/Mid CH

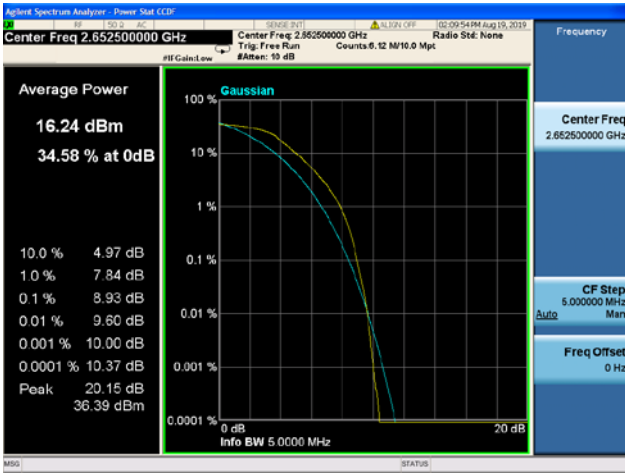


5MHz/64QAM/Mid CH

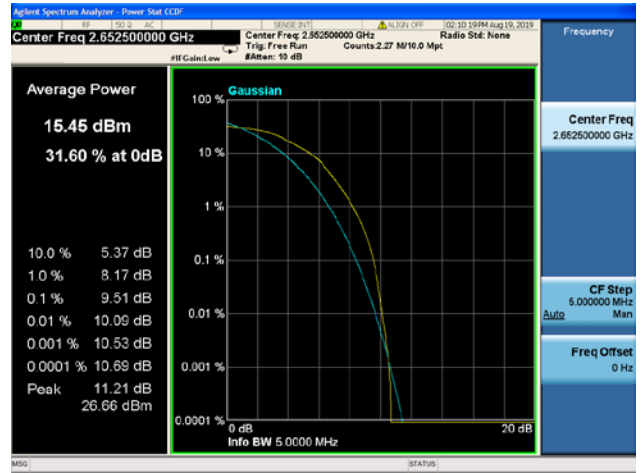




**5MHz/QPSK/High CH**



**5MHz/16QAM/High CH**



**5MHz/64QAM/High CH**



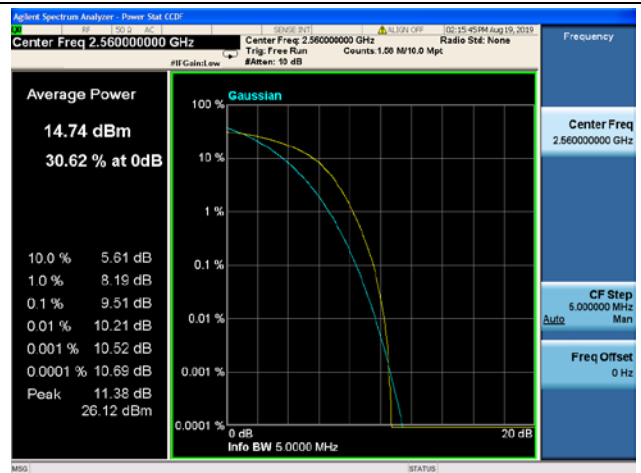
**10MHz/QPSK/Low CH**



**10MHz/16QAM/Low CH**

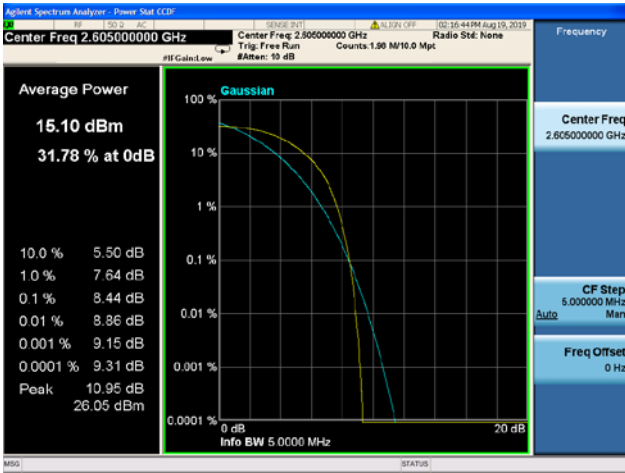


**10MHz/64QAM/Low CH**

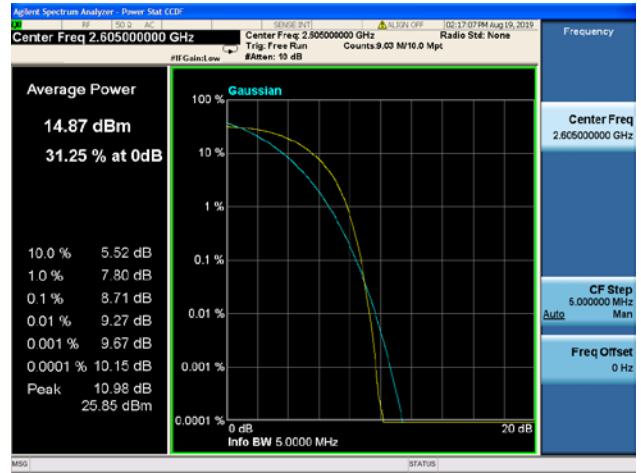




**10MHz/QPSK/Mid CH**



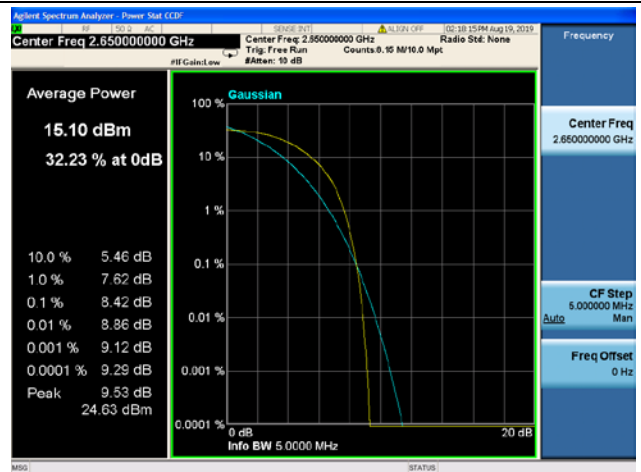
**10MHz/16QAM/Mid CH**



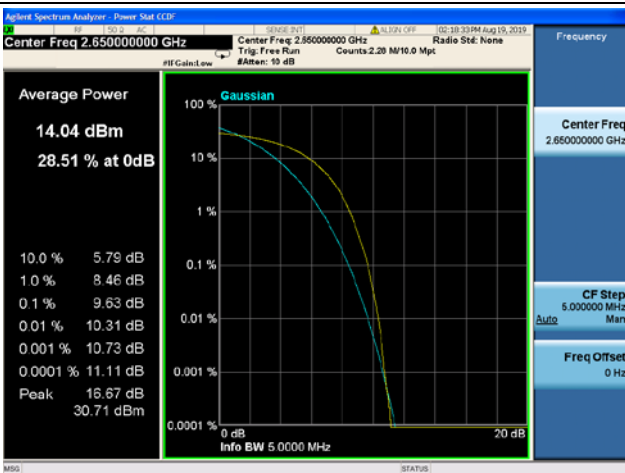
**10MHz/64QAM/Mid CH**



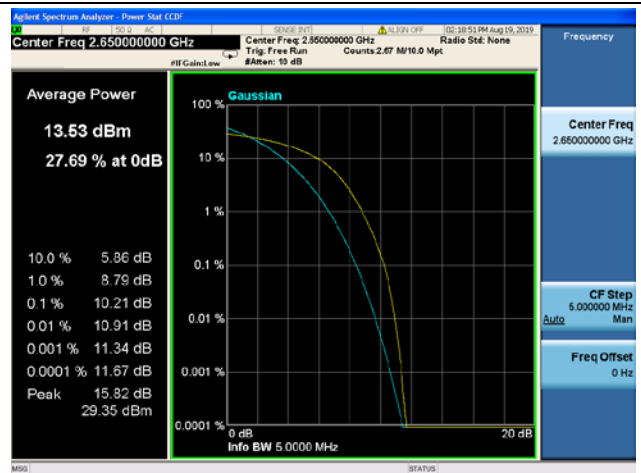
**10MHz/QPSK/High CH**



**10MHz/16QAM/High CH**

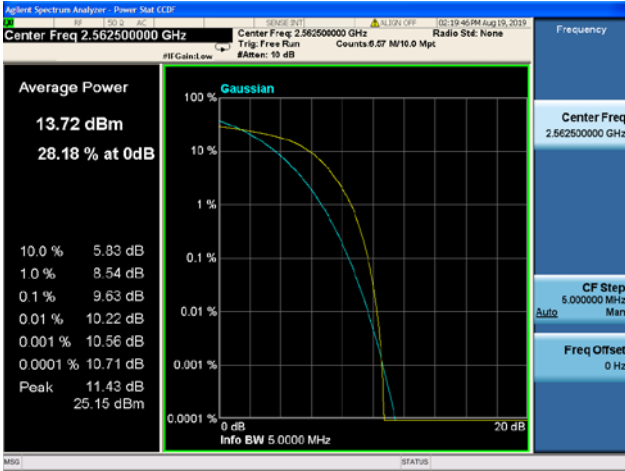


**10MHz/64QAM/High CH**

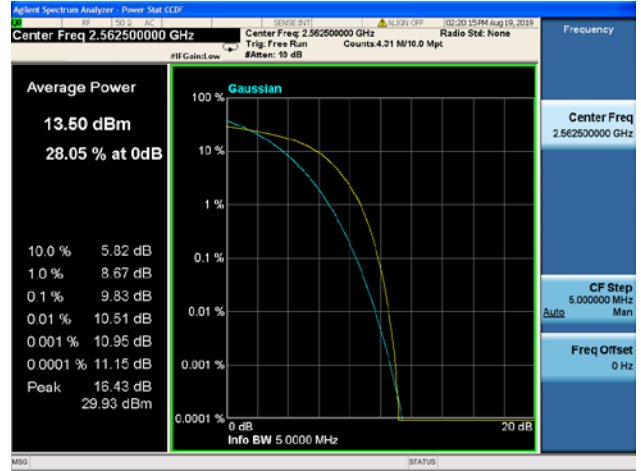




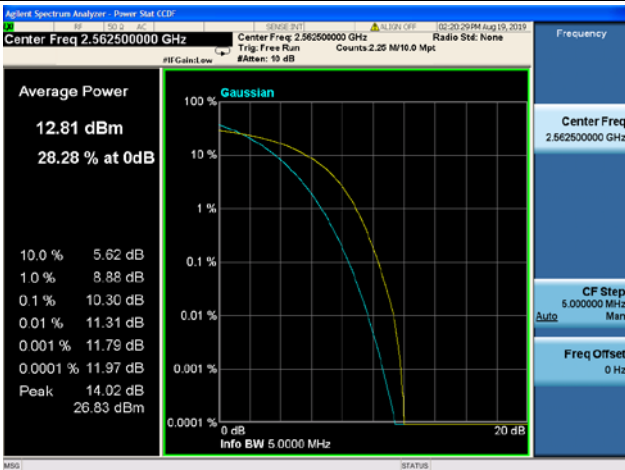
**15MHz/QPSK/Low CH**



**15MHz/16QAM/Low CH**



**15MHz/64QAM/Low CH**



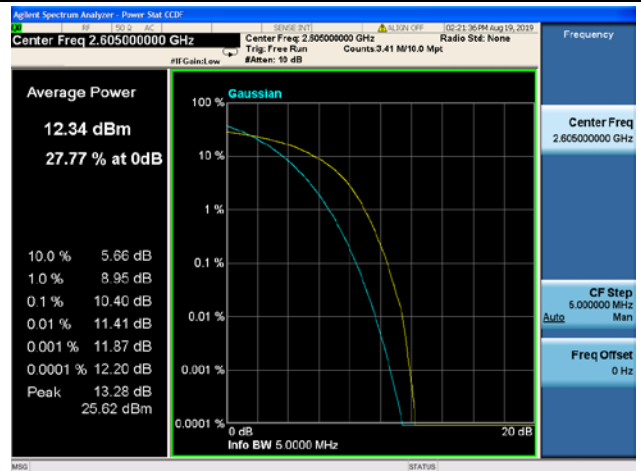
**15MHz/QPSK/Mid CH**



**15MHz/16QAM/Mid CH**



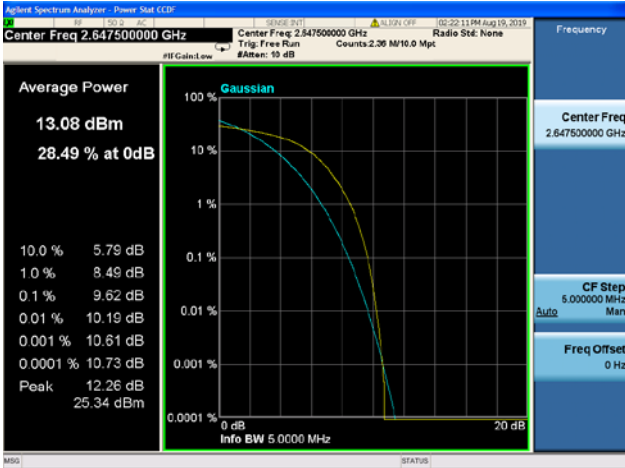
**15MHz/64QAM/Mid CH**



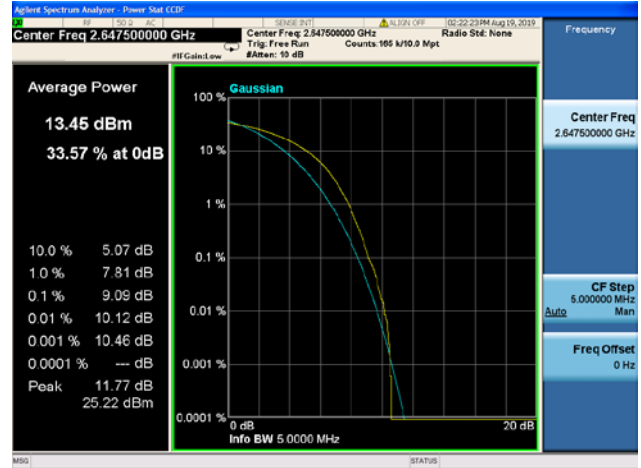




**15MHz/QPSK/High CH**



**15MHz/16QAM/High CH**



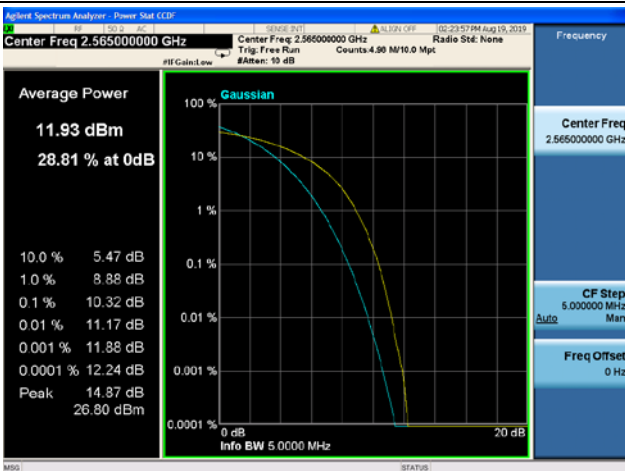
**15MHz/64QAM/High CH**



**20MHz/QPSK/Low CH**



**20MHz/16QAM/Low CH**

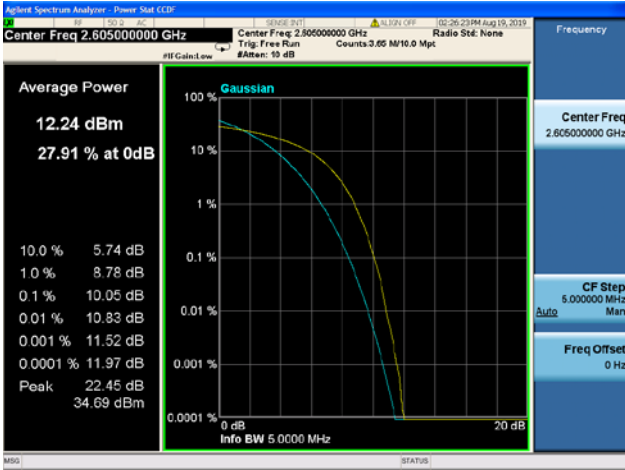


**20MHz/64QAM/Low CH**

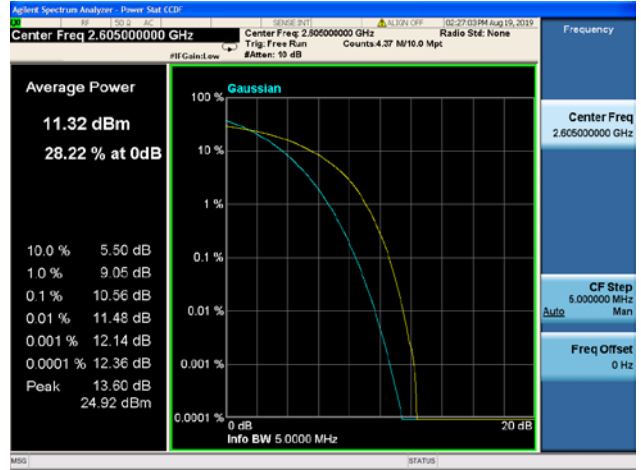




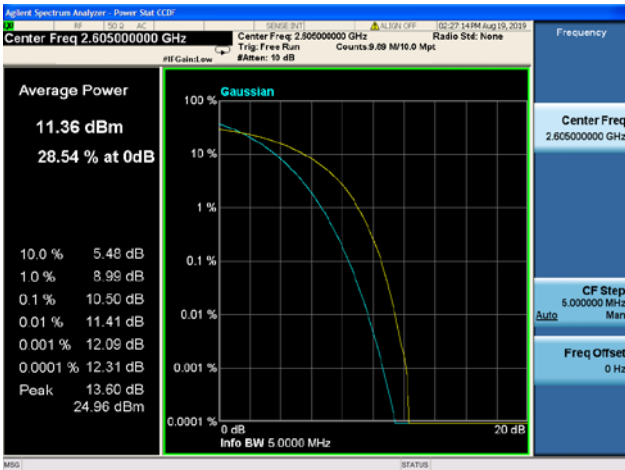
**20MHz/QPSK/Mid CH**



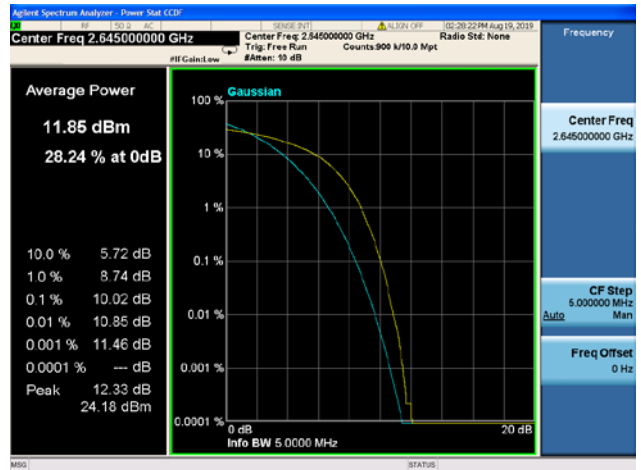
**20MHz/16QAM/Mid CH**



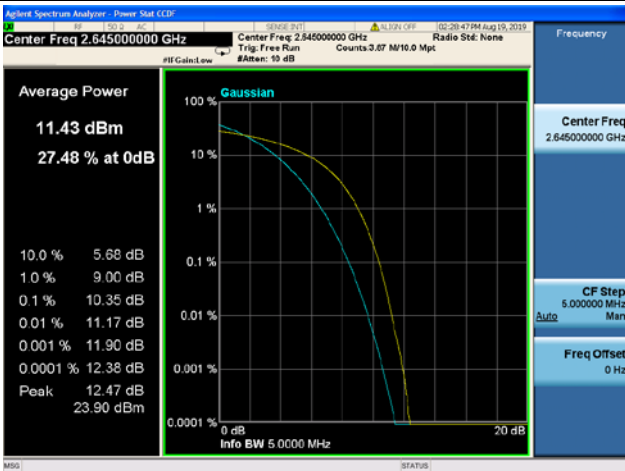
**20MHz/64QAM/Mid CH**



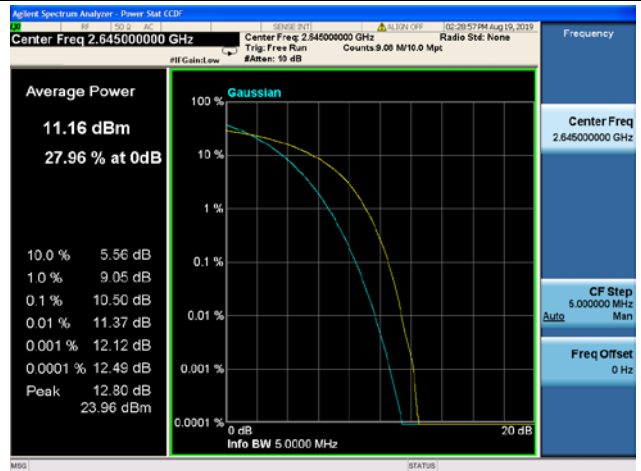
**20MHz/QPSK/High CH**



**20MHz/16QAM/High CH**



**20MHz/64QAM/High CH**



## 2.5. Conducted Spurious Emissions

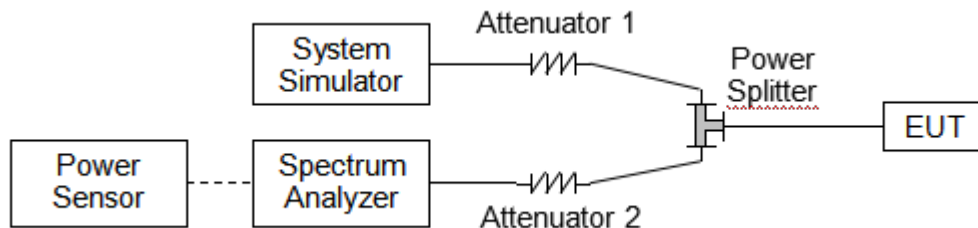
### 2.5.1. Requirement

According to FCC section 2.1051, 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.

Additional requirement for LTE Band 7:

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  $55 + 10 \log(P)$  dB. This calculated to be -25dBm.

### 2.5.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

### 2.5.3. Test procedure

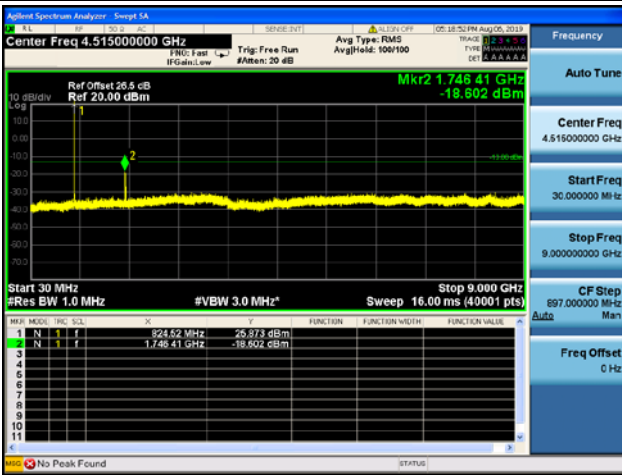
KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

### 2.5.4. Test Result



LTE Band 5 CSE

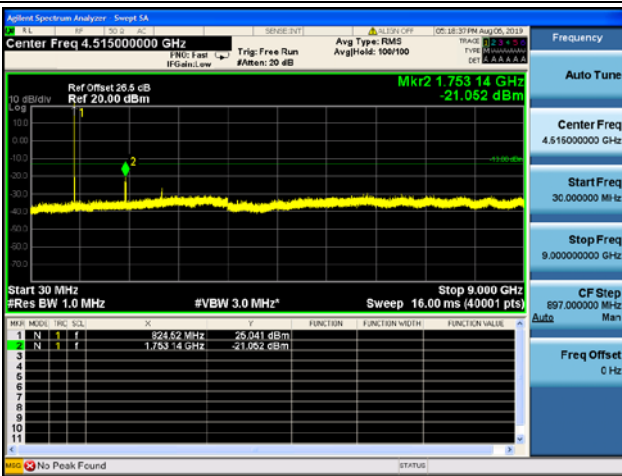
1.4MHz/QPSK/Low CH



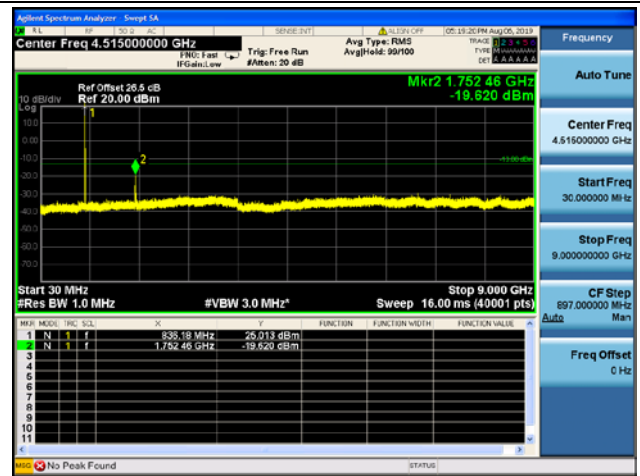
1.4MHz/16QAM/Low CH



1.4MHz/64QAM/Low CH



1.4MHz/QPSK/Mid CH



1.4MHz/16QAM/Mid CH



1.4MHz/64QAM/Mid CH