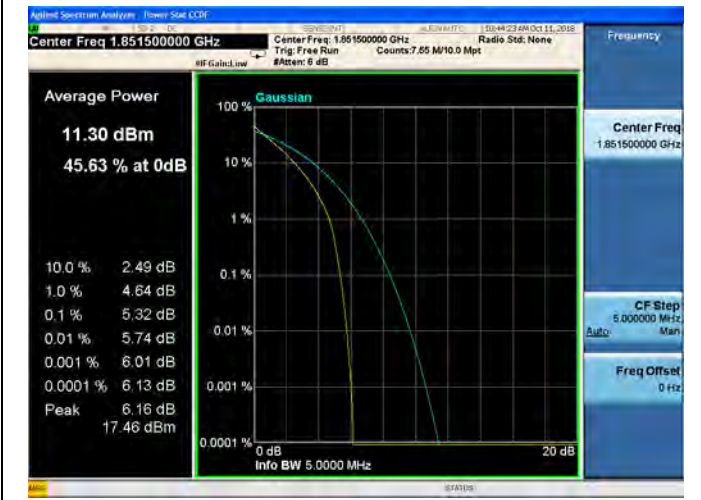




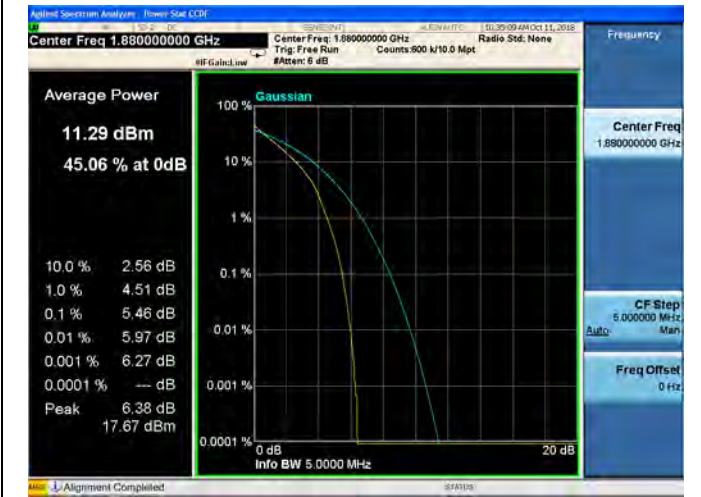
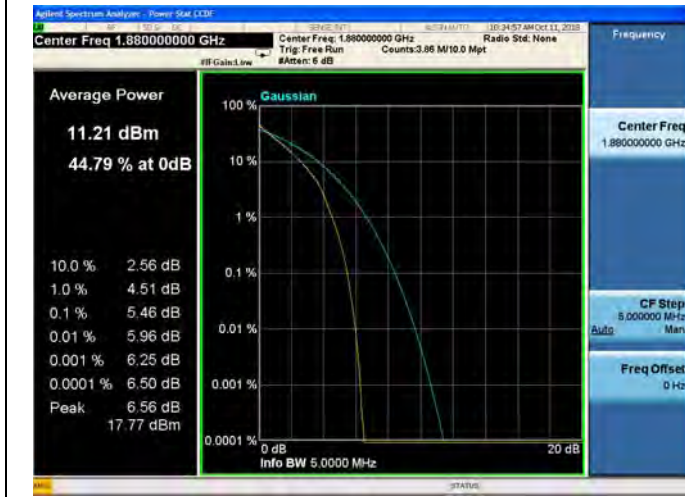
3MHz/QPSK/Low CH

3MHz/16QAM/Low CH



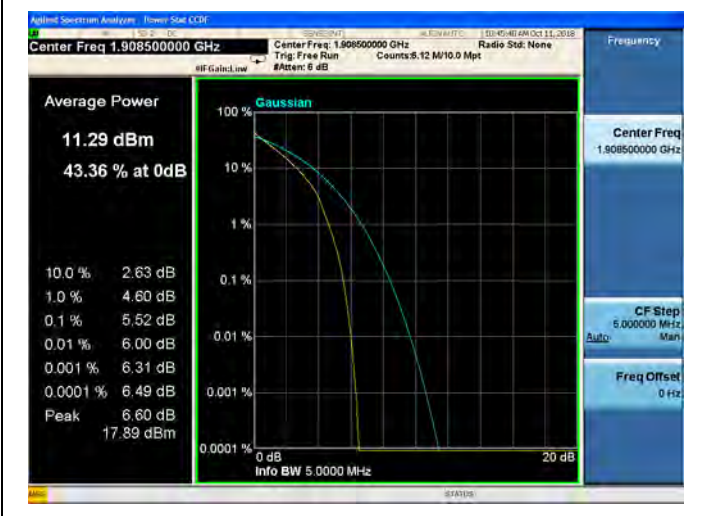
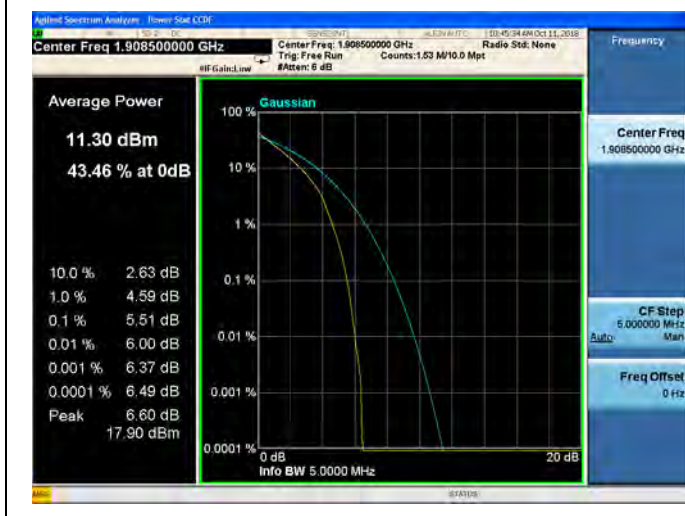
3MHz/QPSK/Mid CH

3MHz/16QAM/Mid CH



3MHz/QPSK/High CH

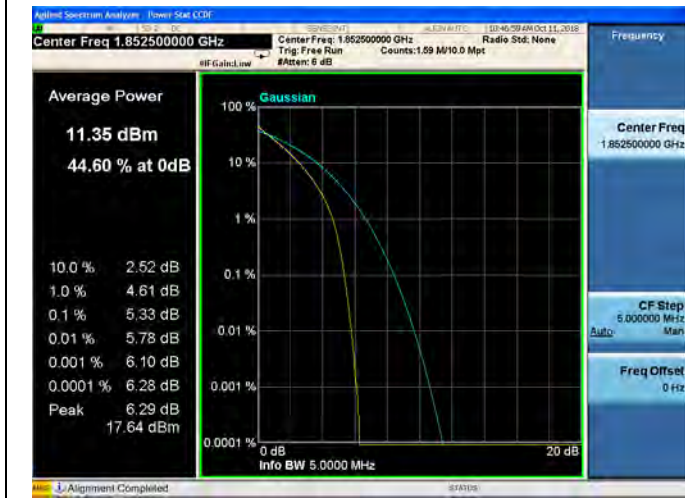
3MHz/16QAM/High CH





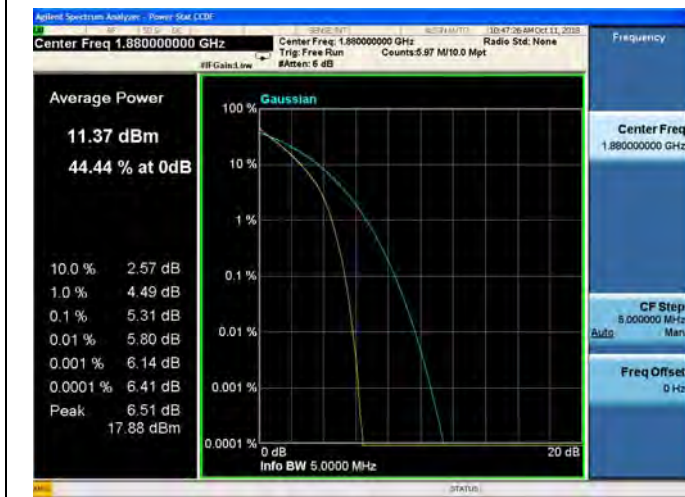
5MHz/QPSK/Low CH

5MHz/16QAM/Low CH



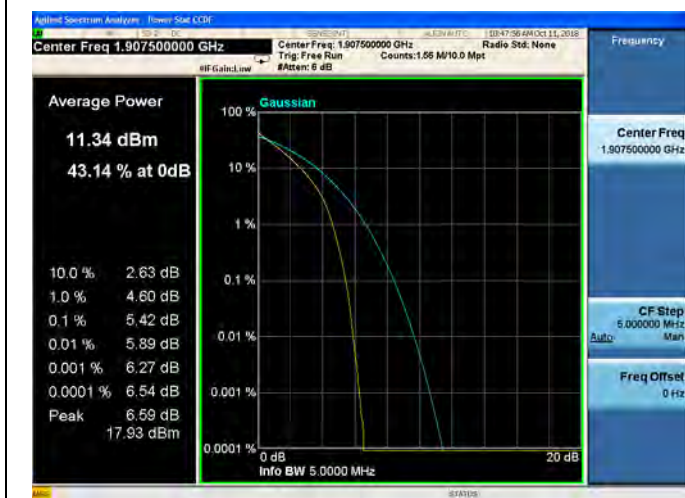
5MHz/QPSK/Mid CH

5MHz/16QAM/Mid CH



5MHz/QPSK/High CH

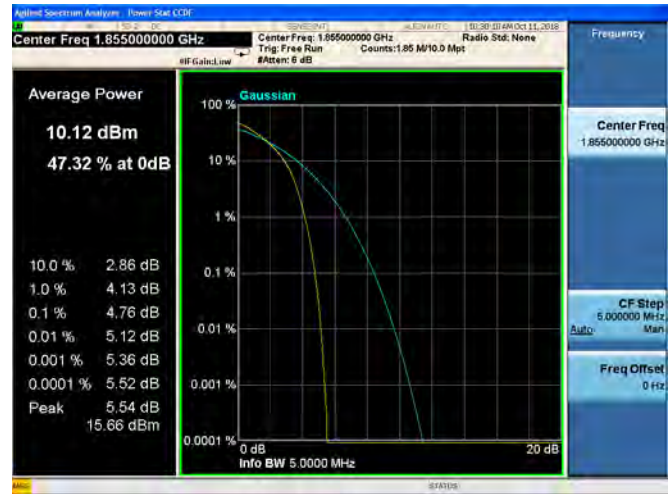
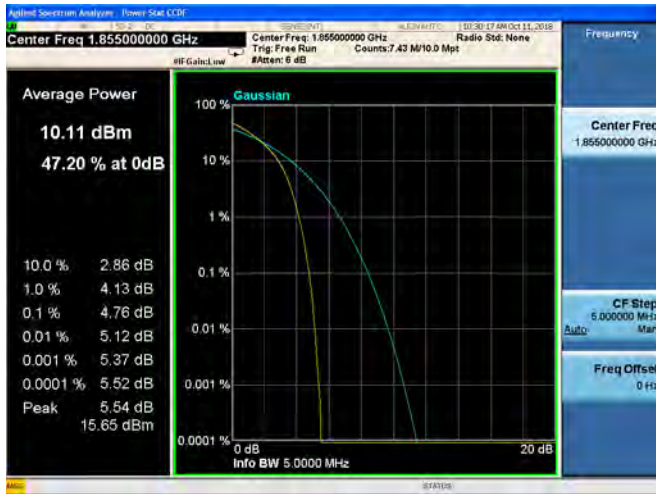
5MHz/16QAM/High CH





10MHz/QPSK/Low CH

10MHz/16QAM/Low CH



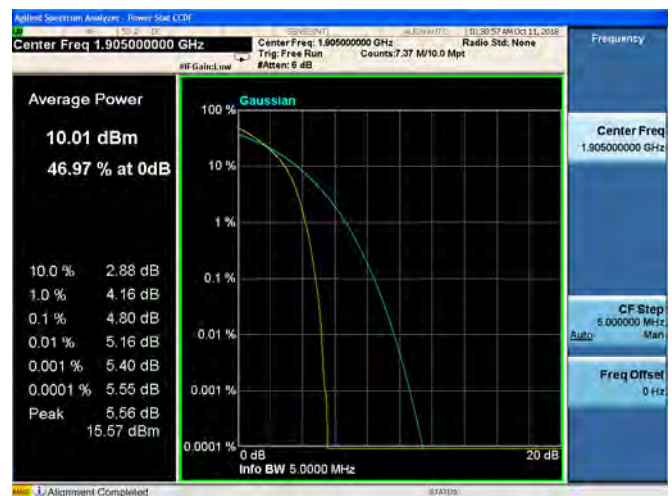
10MHz/QPSK/Mid CH

10MHz/16QAM/Mid CH



10MHz/QPSK/High CH

10MHz/16QAM/High CH





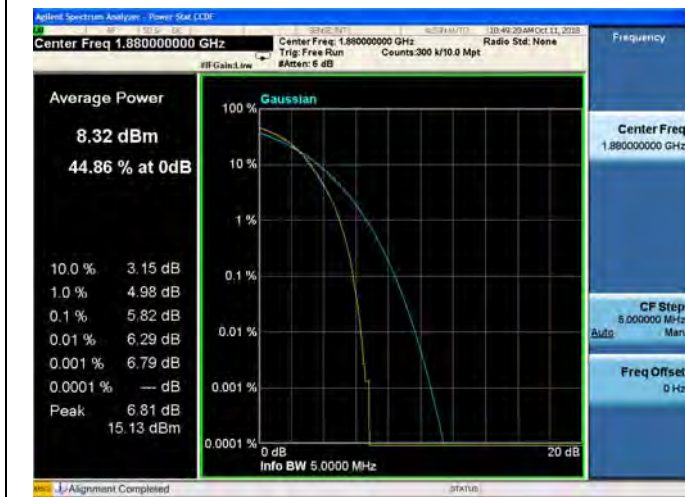
15MHz/QPSK/Low CH

15MHz/16QAM/Low CH



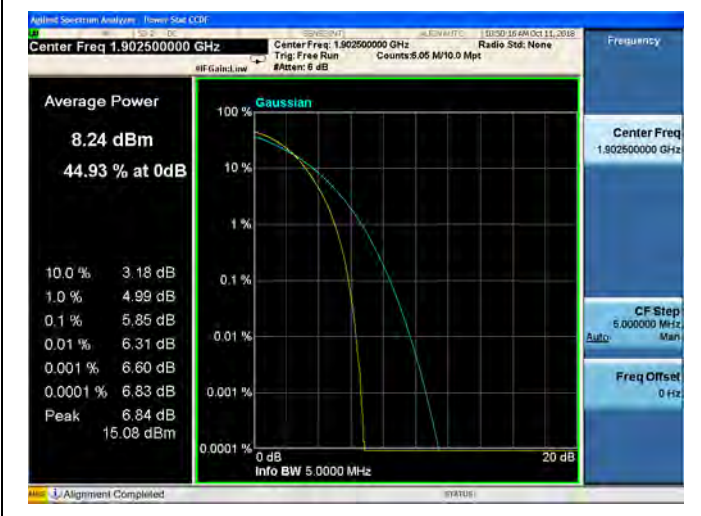
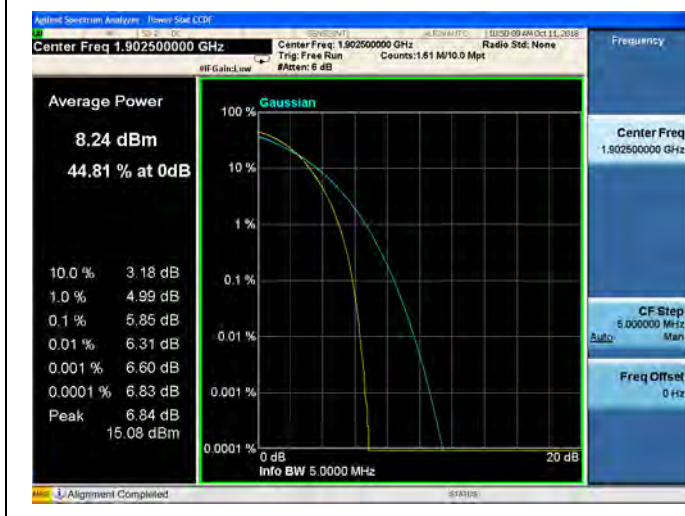
15MHz/QPSK/Mid CH

15MHz/16QAM/Mid CH



15MHz/QPSK/High CH

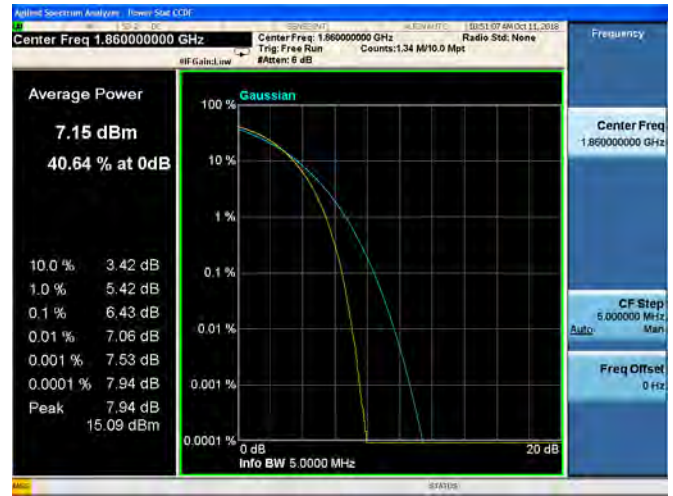
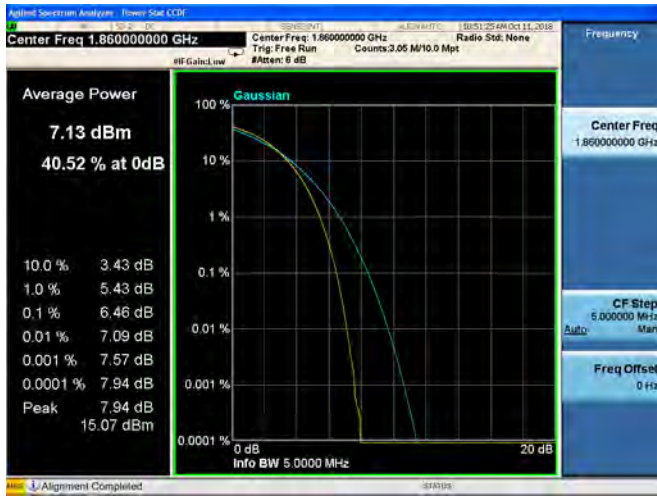
15MHz/16QAM/High CH





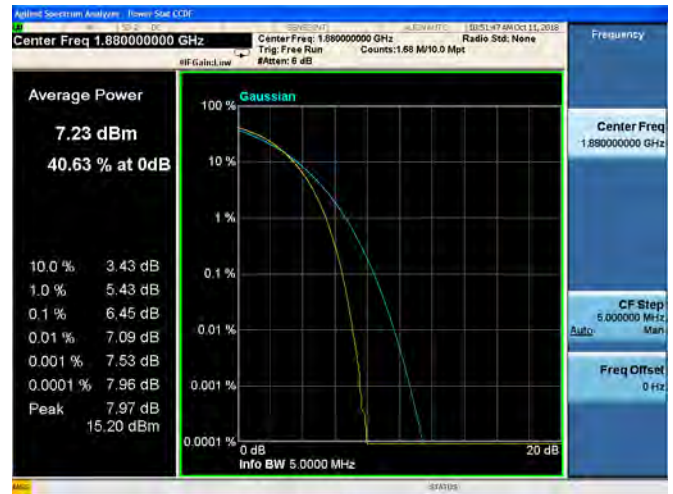
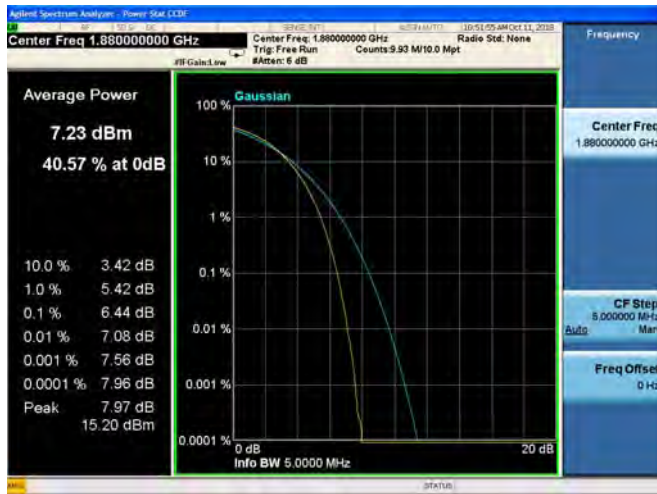
20MHz/QPSK/Low CH

20MHz/16QAM/Low CH



20MHz/QPSK/Mid CH

20MHz/16QAM/Mid CH



20MHz/QPSK/High CH

20MHz/16QAM/High CH



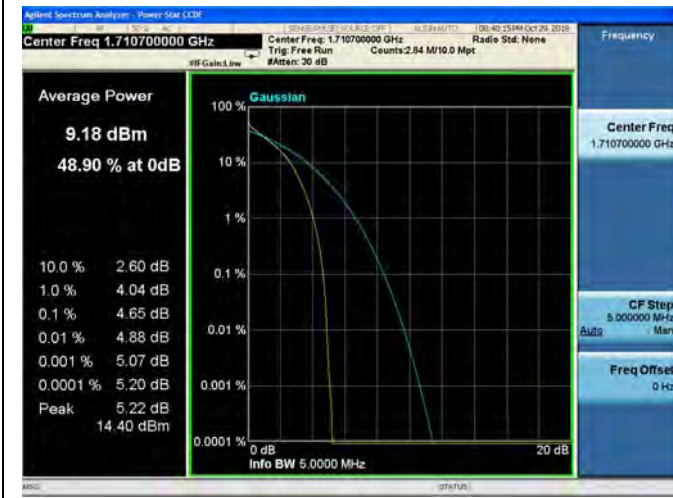


LTE Band 4, BW: 1.4MHz			
Channel	Frequency (MHz)	Peak to Average Ratio(dB)	
		QPSK	16QAM
18607	1850.7	4.65	5.49
18900	1880.0	4.91	5.74
19192	1909.2	4.60	4.60
LTE Band 4, BW: 3MHz			
Channel	Frequency (MHz)	Peak to Average Ratio(dB)	
		QPSK	16QAM
18615	1851.5	4.94	5.81
18900	1880.0	5.38	5.96
19184	1908.4	4.86	5.67
LTE Band 4, BW: 5MHz			
Channel	Frequency (MHz)	Peak to Average Ratio(dB)	
		QPSK	16QAM
18625	1852.5	5.38	6.09
18900	1880.0	5.40	6.17
19175	1907.5	5.29	5.94
LTE Band 4, BW: 10MHz			
Channel	Frequency (MHz)	Peak to Average Ratio(dB)	
		QPSK	16QAM
18650	1855.0	6.47	6.85
18900	1880.0	6.44	6.84
19150	1905.0	6.51	6.79
LTE Band 4, BW: 15MHz			
Channel	Frequency (MHz)	Peak to Average Ratio(dB)	
		QPSK	16QAM
18675	1857.5	6.70	6.81
18900	1880.0	7.22	7.27
19125	1902.5	7.25	7.26
LTE Band 4, BW: 20MHz			
Channel	Frequency (MHz)	Peak to Average Ratio(dB)	
		QPSK	16QAM
18700	1860.0	7.13	7.25
18900	1880.0	7.56	7.58
19100	1900.0	7.53	7.55

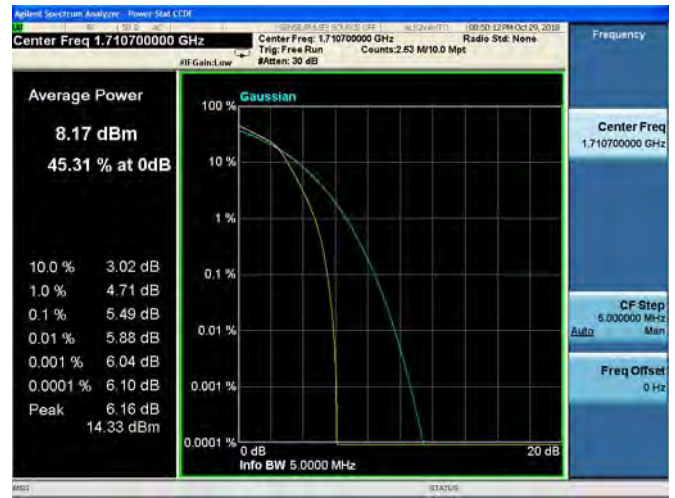


LTE Band 4 Peak to Average Ratio

1.4MHz/QPSK/Low CH



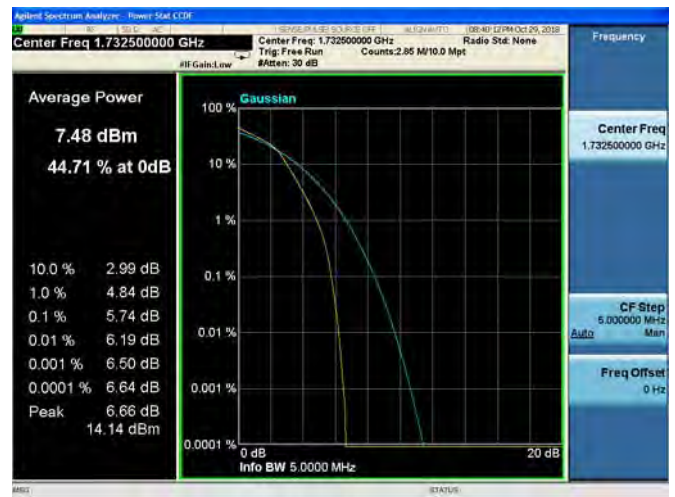
1.4MHz/16QAM/Low CH



1.4MHz/QPSK/Mid CH

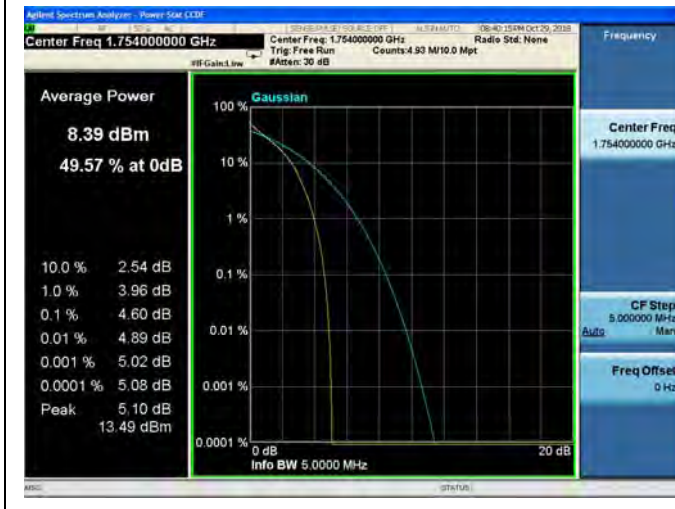


1.4MHz/16QAM/Mid CH

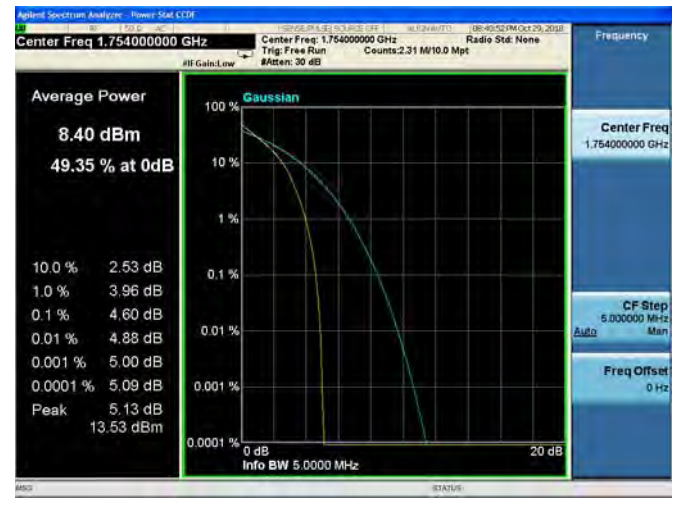




1.4MHz/QPSK/High CH

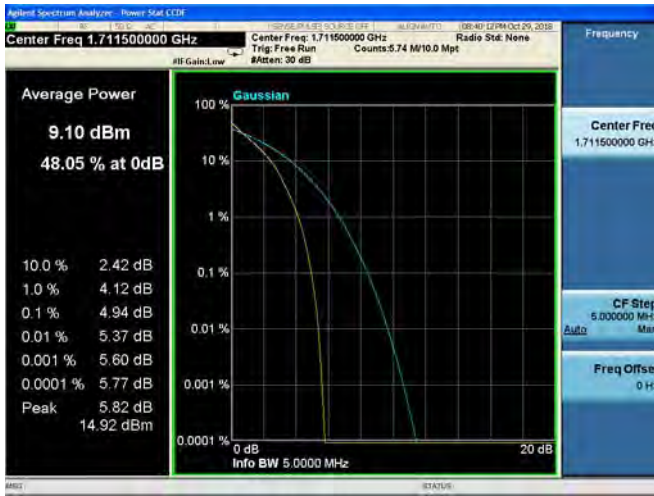


1.4MHz/16QAM/High CH

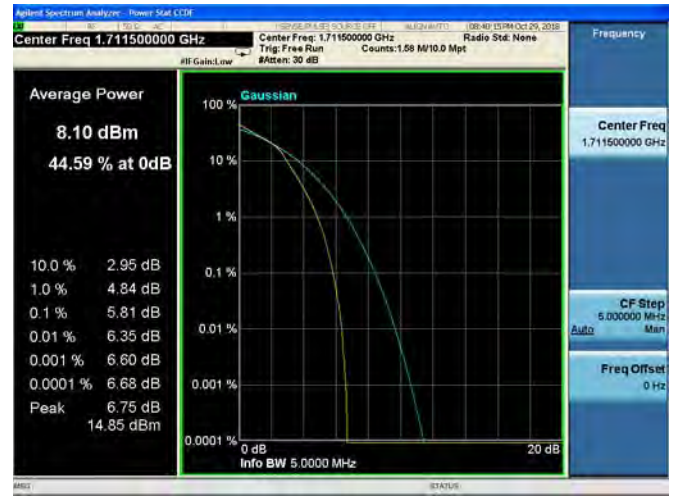




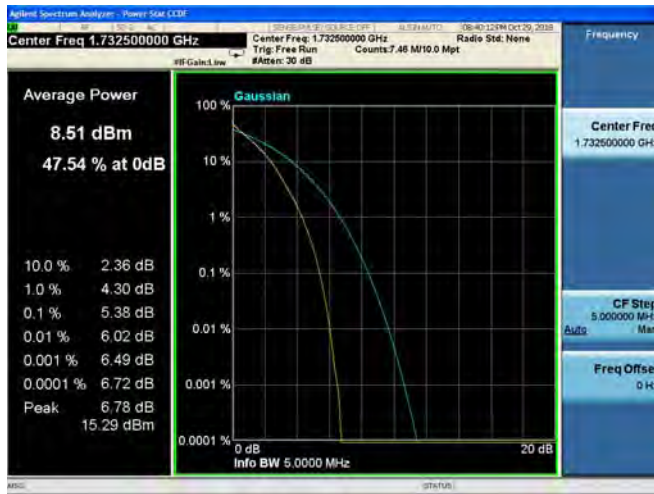
3MHz/QPSK/Low CH



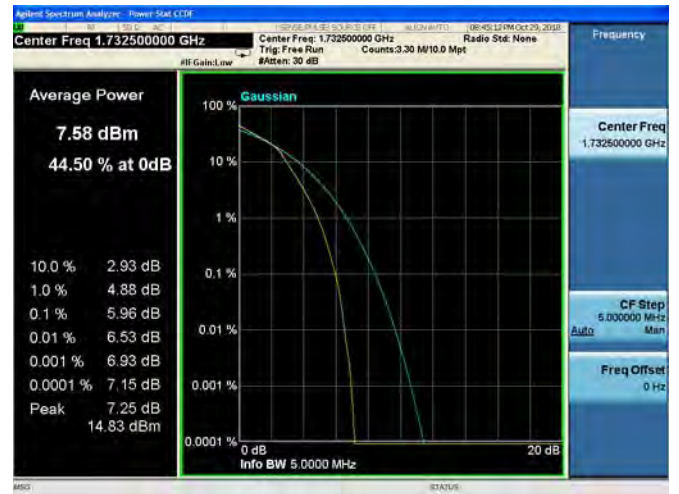
3MHz/16QAM/Low CH



3MHz/QPSK/Mid CH



3MHz/16QAM/Mid CH



3MHz/QPSK/High CH

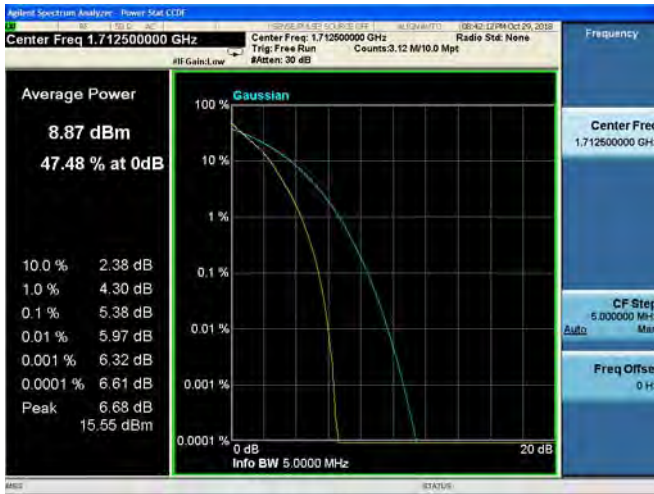


3MHz/16QAM/High CH

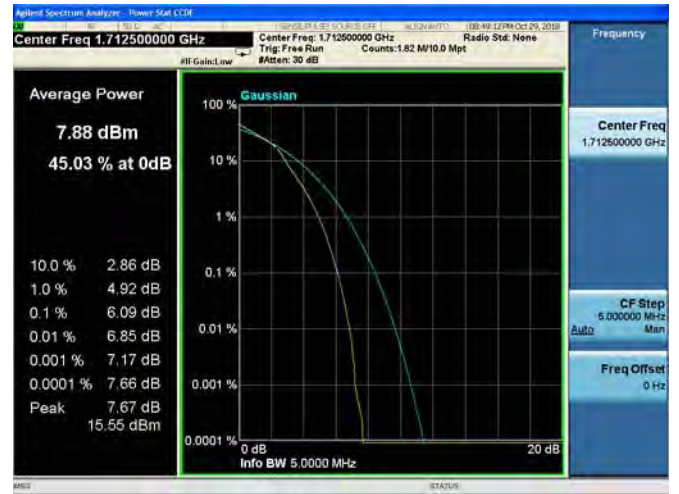




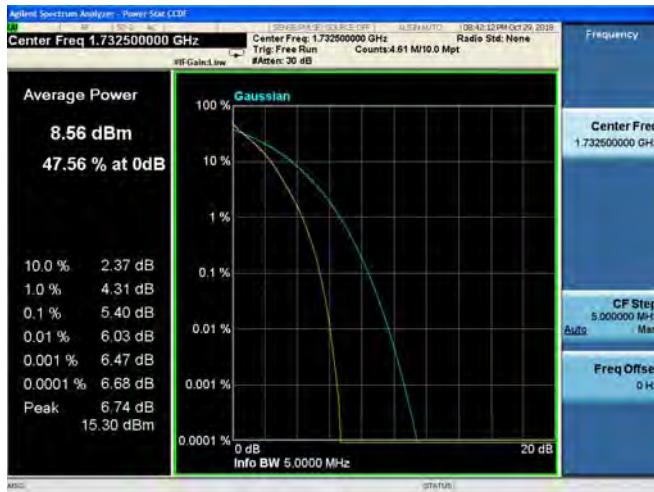
5MHz/QPSK/Low CH



5MHz/16QAM/Low CH



5MHz/QPSK/Mid CH



5MHz/16QAM/Mid CH



5MHz/QPSK/High CH



5MHz/16QAM/High CH

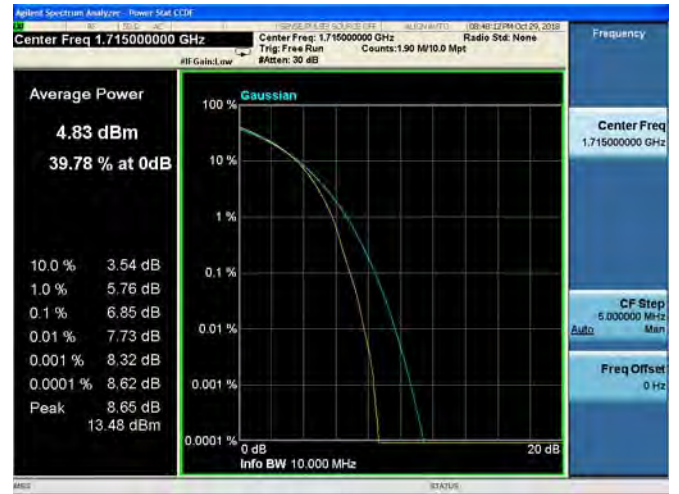




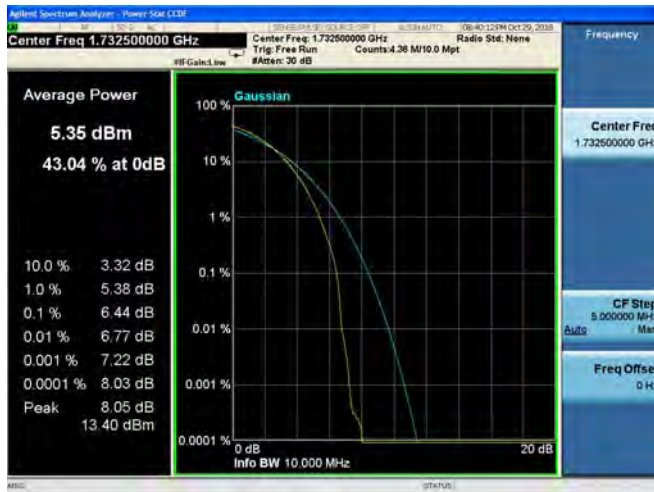
10MHz/QPSK/Low CH



10MHz/16QAM/Low CH



10MHz/QPSK/Mid CH



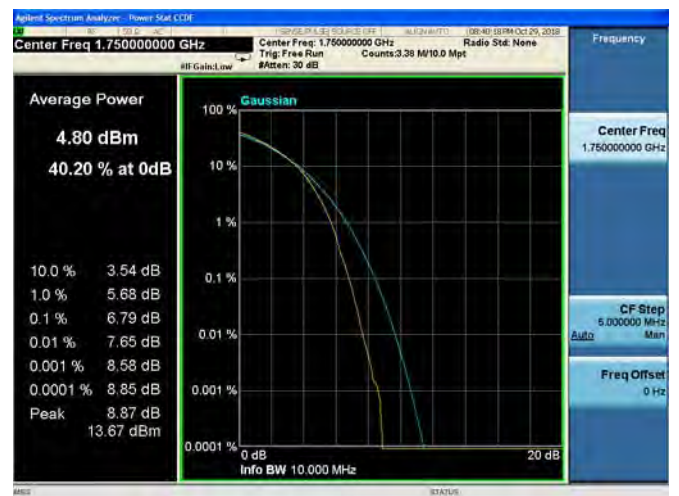
10MHz/16QAM/Mid CH



10MHz/QPSK/High CH



10MHz/16QAM/High CH

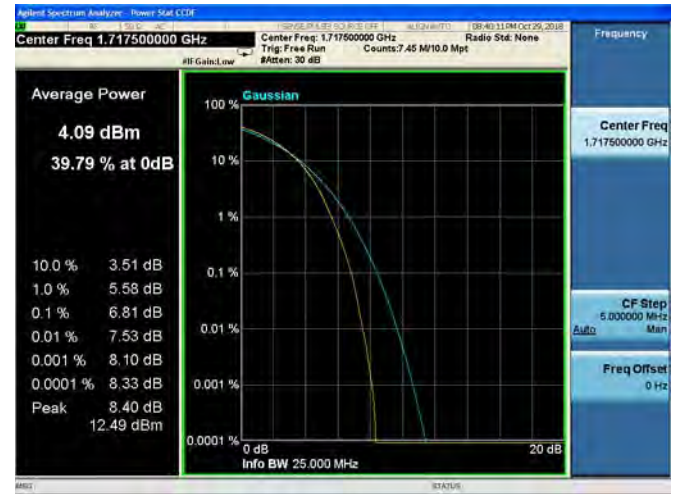




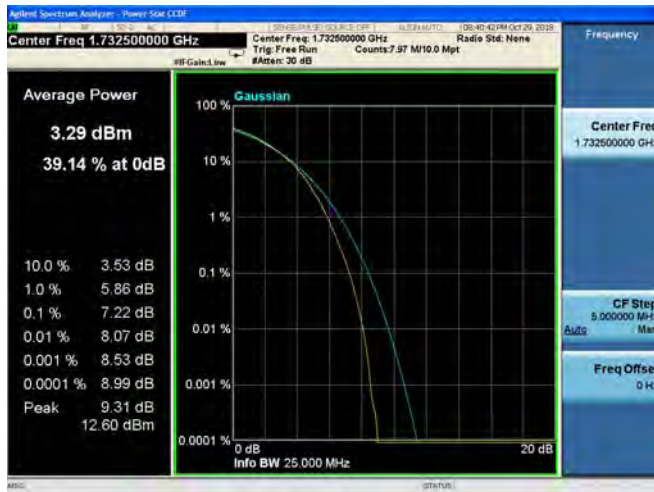
15MHz/QPSK/Low CH



15MHz/16QAM/Low CH



15MHz/QPSK/Mid CH



15MHz/16QAM/Mid CH



15MHz/QPSK/High CH



15MHz/16QAM/High CH

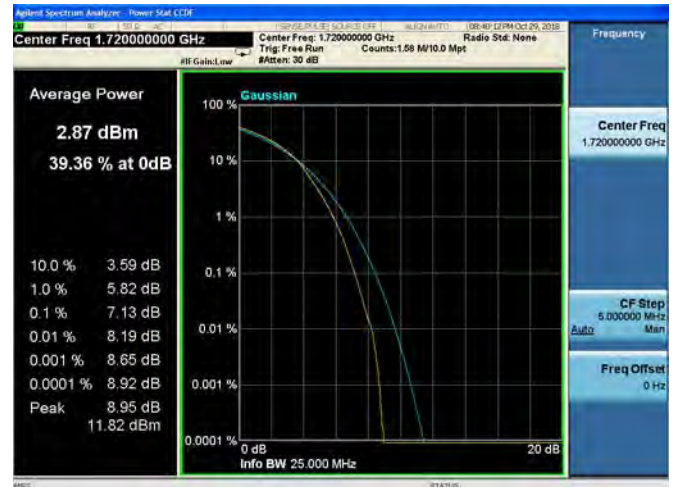




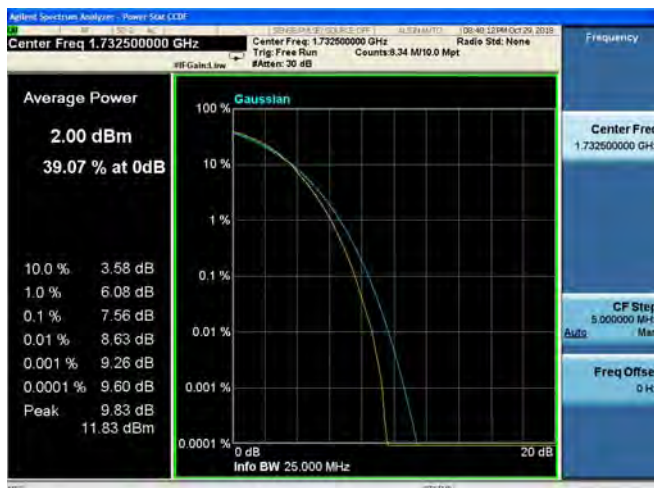
20MHz/QPSK/Low CH



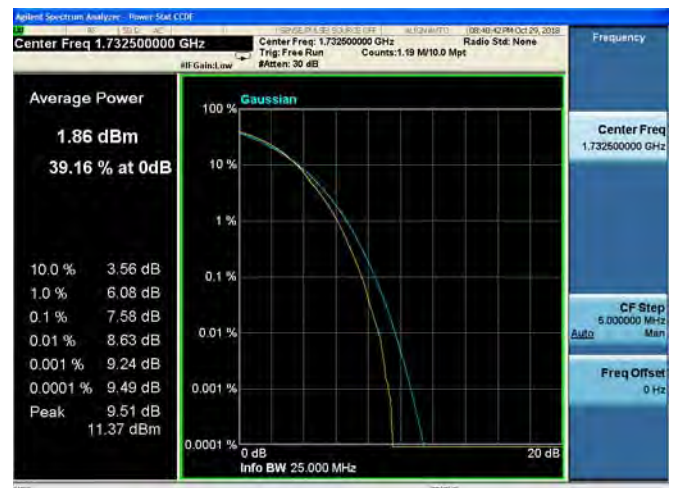
20MHz/16QAM/Low CH



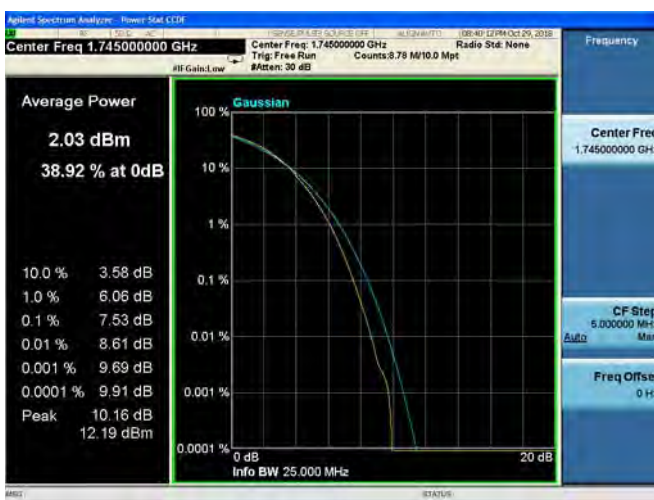
20MHz/QPSK/Mid CH



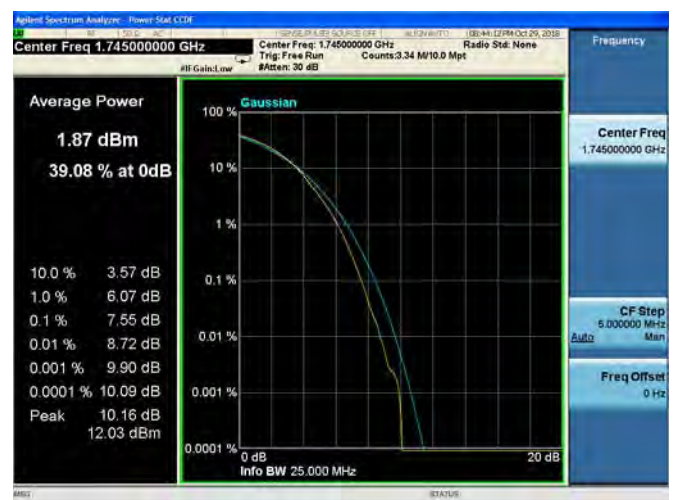
20MHz/16QAM/Mid CH



20MHz/QPSK/High CH



20MHz/16QAM/High CH



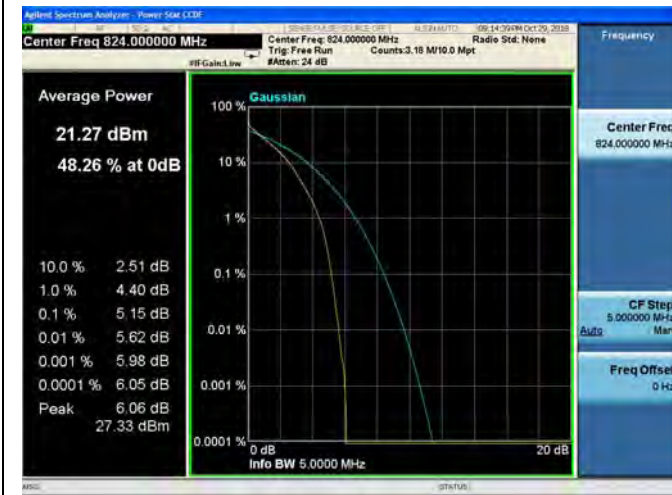


LTE Band 5, BW: 1.4MHz			
Channel	Frequency (MHz)	Peak to Average Ratio(dB)	
		QPSK	16QAM
20407	824.7	5.15	5.49
20525	836.5	5.59	6.45
20643	848.3	5.43	6.19
LTE Band 5, BW: 3MHz			
Channel	Frequency (MHz)	Peak to Average Ratio(dB)	
		QPSK	16QAM
20415	825.5	4.75	4.75
20525	836.5	4.83	4.80
20635	847.5	5.02	5.02
LTE Band 5, BW: 5MHz			
Channel	Frequency (MHz)	Peak to Average Ratio(dB)	
		QPSK	16QAM
20425	826.5	4.92	4.91
20525	836.5	4.92	4.92
20625	846.5	5.03	5.03
LTE Band 5, BW: 10MHz			
Channel	Frequency (MHz)	Peak to Average Ratio(dB)	
		QPSK	16QAM
20450	829.0	4.27	4.80
20525	836.5	5.42	4.78
20600	844.0	4.75	4.75



LTE Band 5 Peak to Average Ratio

1.4MHz/QPSK/Low CH



1.4MHz/16QAM/Low CH



1.4MHz/QPSK/Mid CH

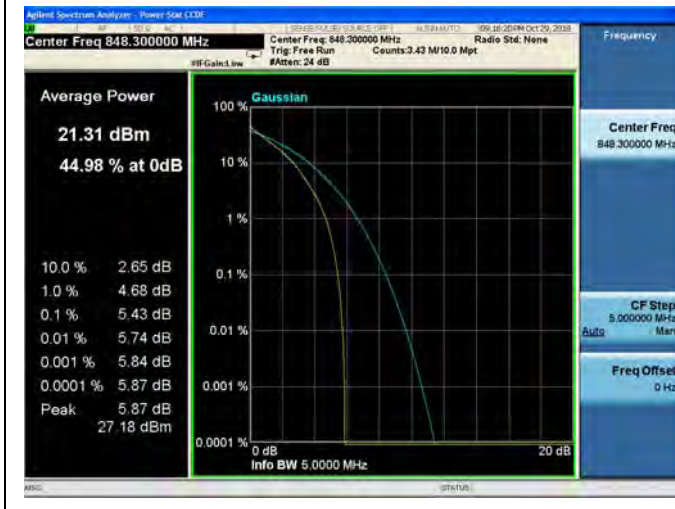


1.4MHz/16QAM/Mid CH





1.4MHz/QPSK/High CH



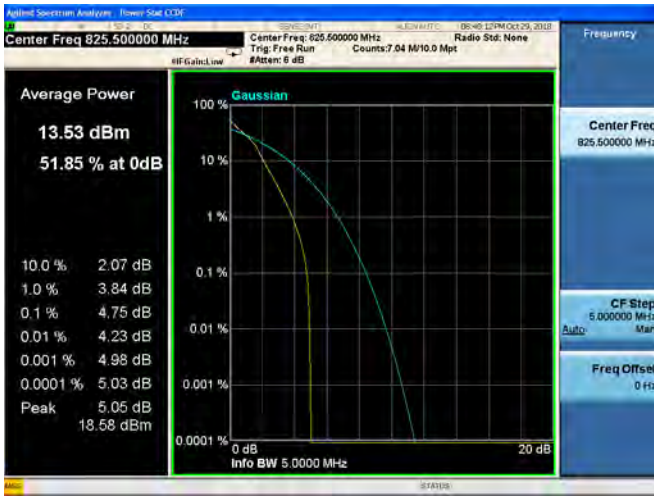
1.4MHz/16QAM/High CH





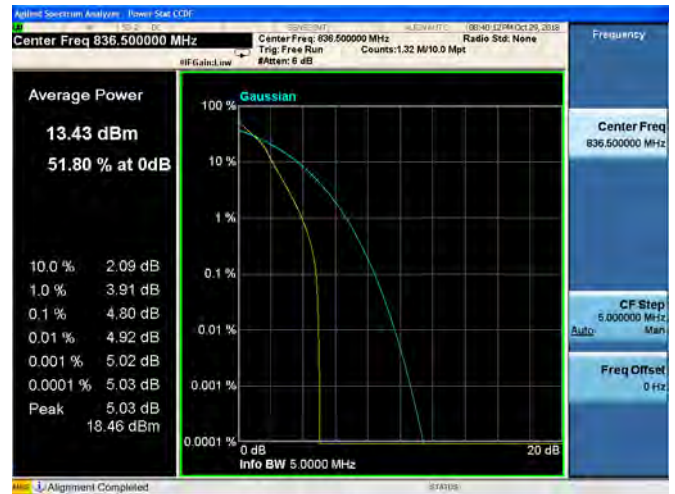
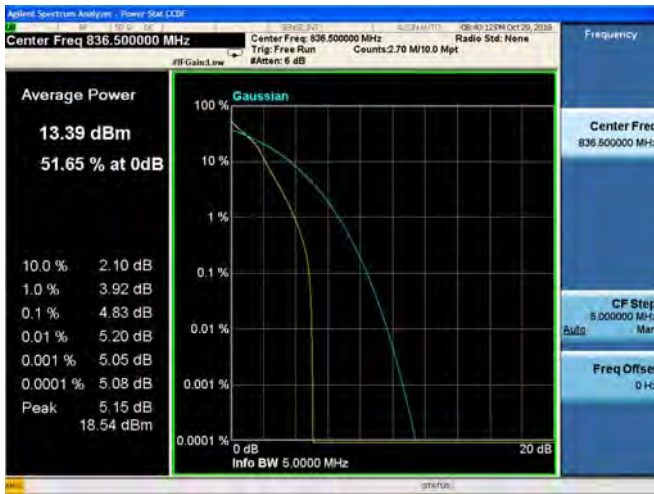
3MHz/QPSK/Low CH

3MHz/16QAM/Low CH



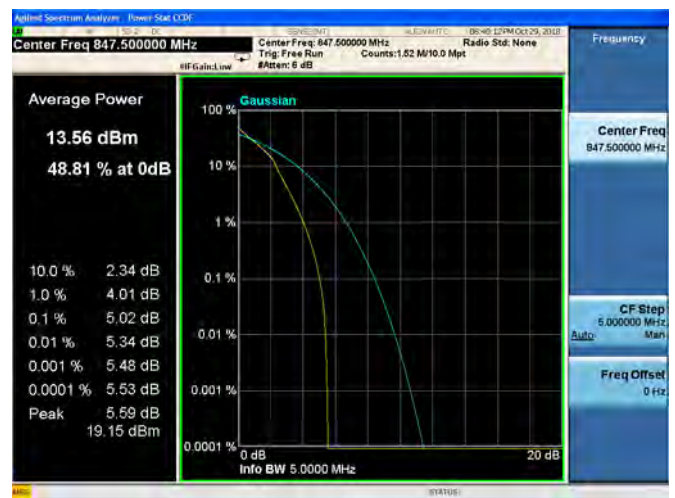
3MHz/QPSK/Mid CH

3MHz/16QAM/Mid CH



3MHz/QPSK/High CH

3MHz/16QAM/High CH





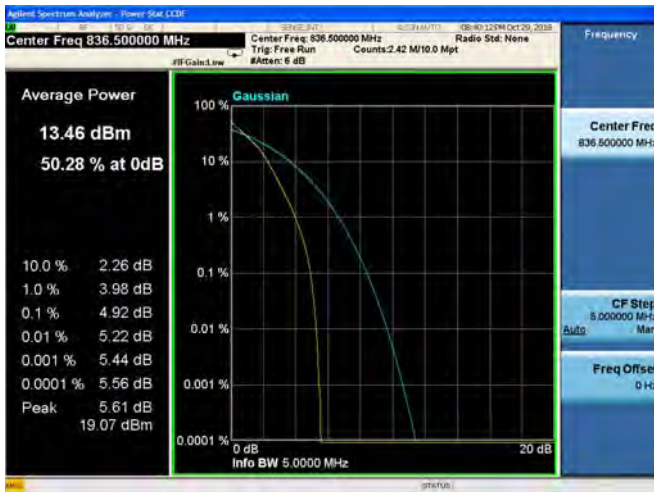
5MHz/QPSK/Low CH

5MHz/16QAM/Low CH



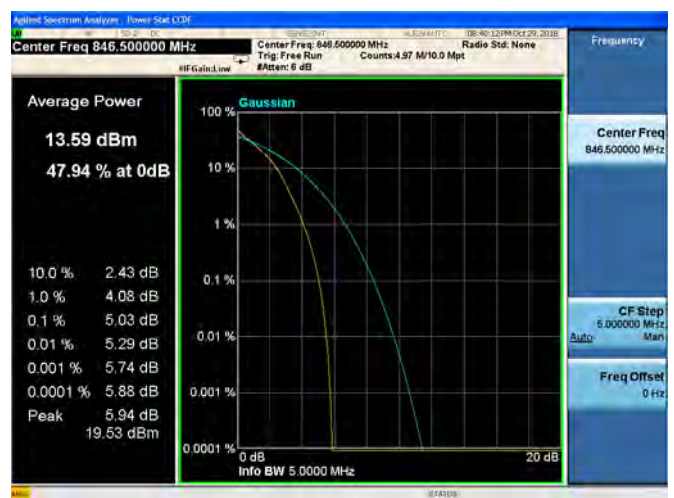
5MHz/QPSK/Mid CH

5MHz/16QAM/Mid CH



5MHz/QPSK/High CH

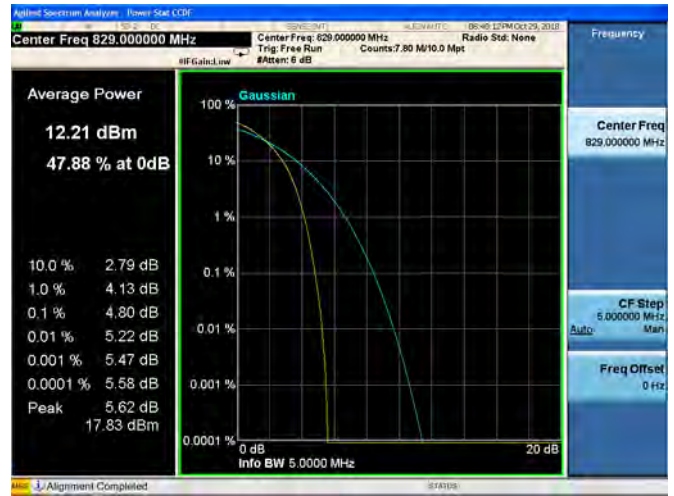
5MHz/16QAM/High CH





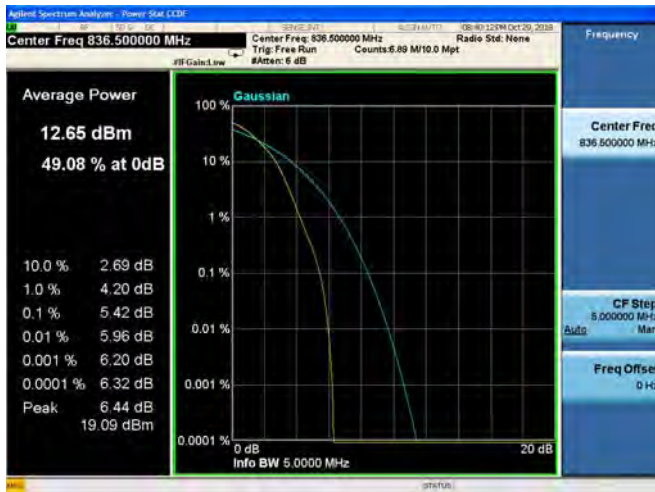
10MHz/QPSK/Low CH

10MHz/16QAM/Low CH



10MHz/QPSK/Mid CH

10MHz/16QAM/Mid CH



10MHz/QPSK/High CH

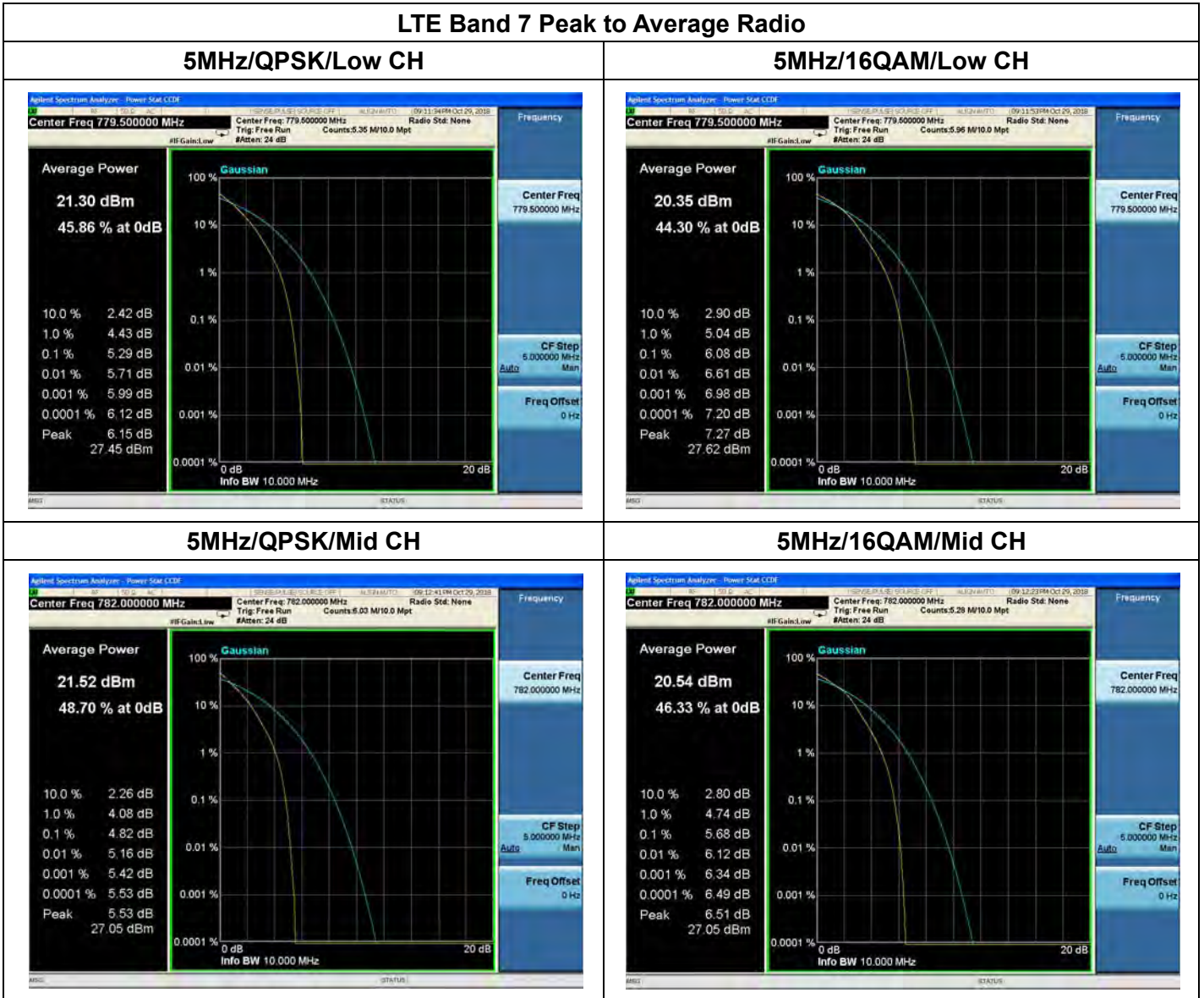
10MHz/16QAM/High CH





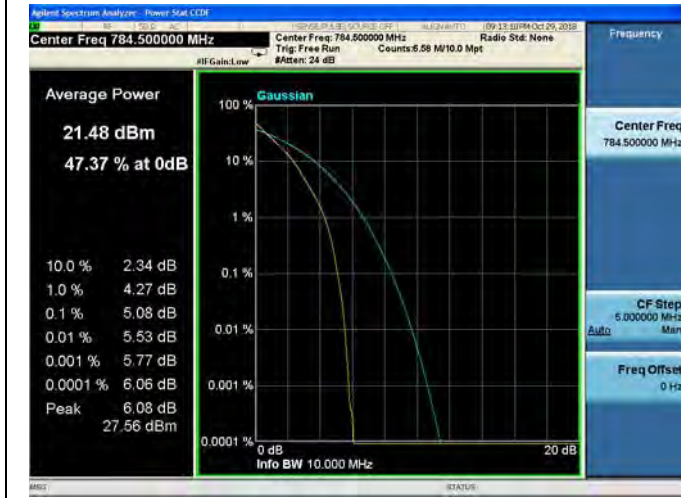
LTE Band 13, BW: 5MHz			
Channel	Frequency (MHz)	Peak to Average Ratio(dB)	
		QPSK	16QAM
23205	779.5	5.29	6.08
23230	782.0	4.82	5.68
23255	784.5	5.08	5.74

LTE Band 13, BW: 10MHz			
Channel	Frequency (MHz)	Peak to Average Ratio(dB)	
		QPSK	16QAM
23230	782.0	4.94	5.81

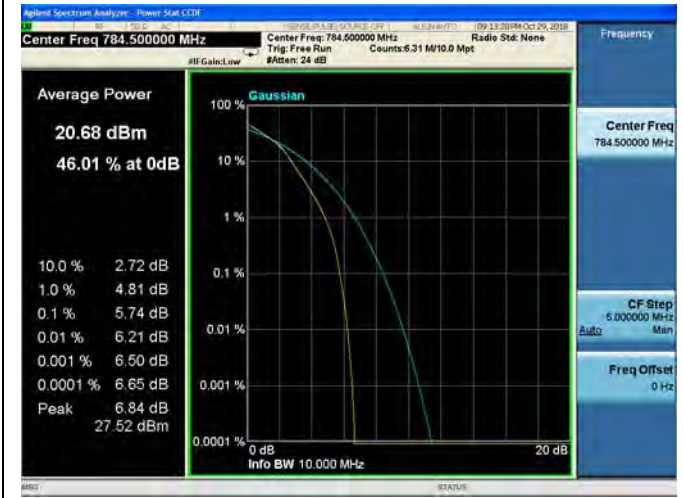




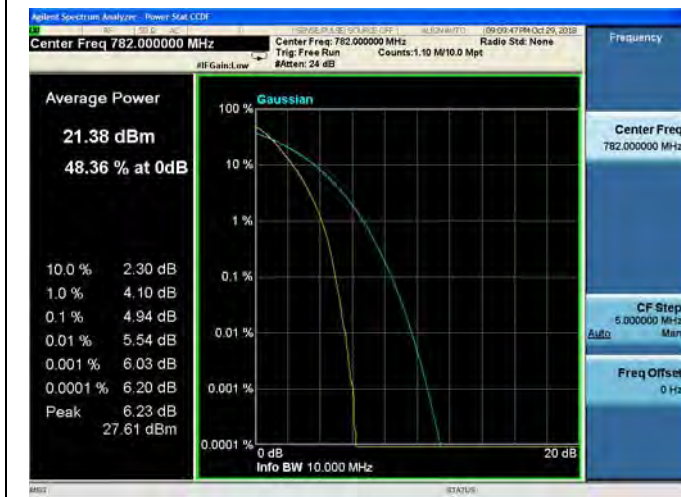
5MHz/QPSK/High CH



5MHz/16QAM/High CH



10MHz/QPSK/Low CH



10MHz/16QAM/Low CH

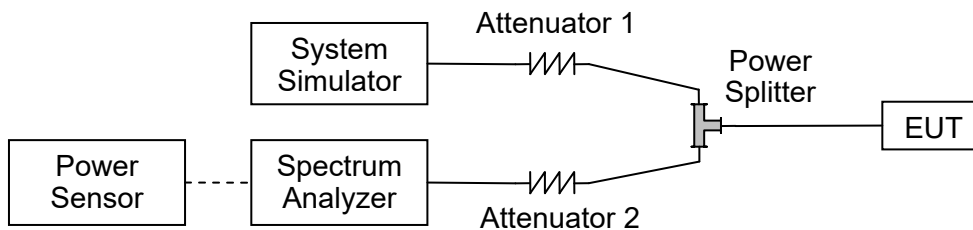


2.5. Conducted Spurious Emissions

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.

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

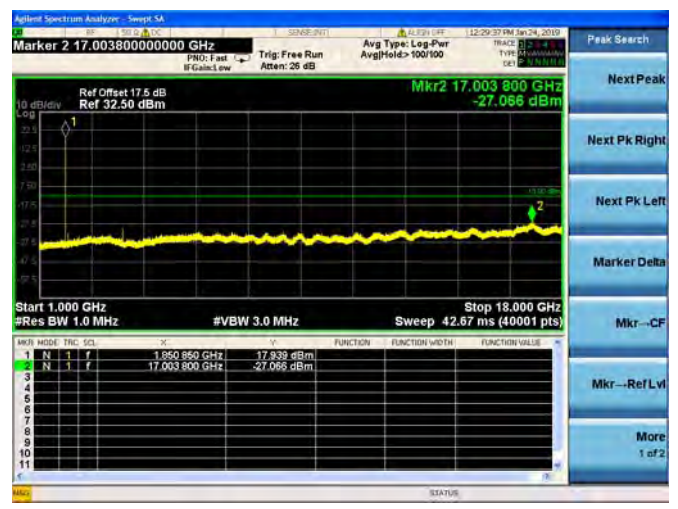
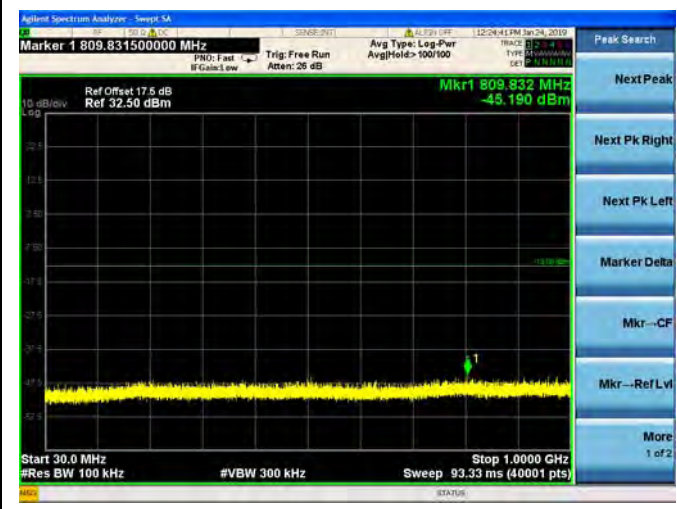
KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.5.4. Test Result

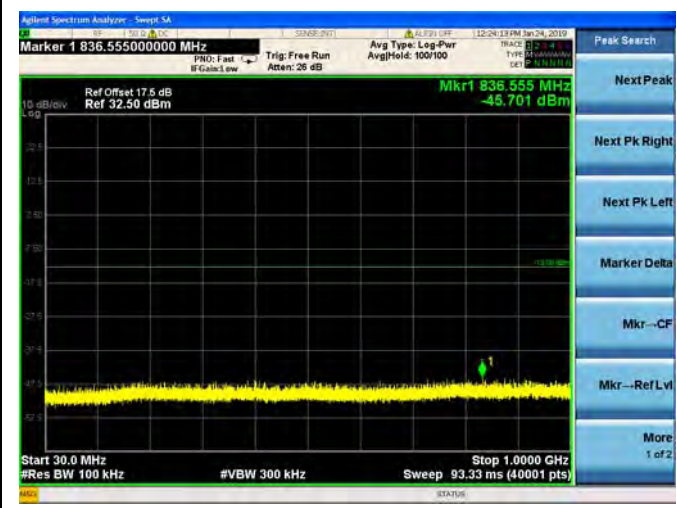


LTE Band 2 1.4MHz BW Low Channel

QPSK



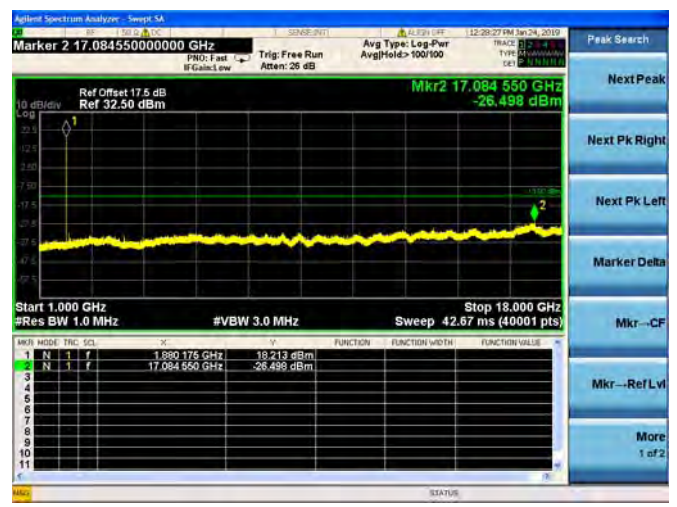
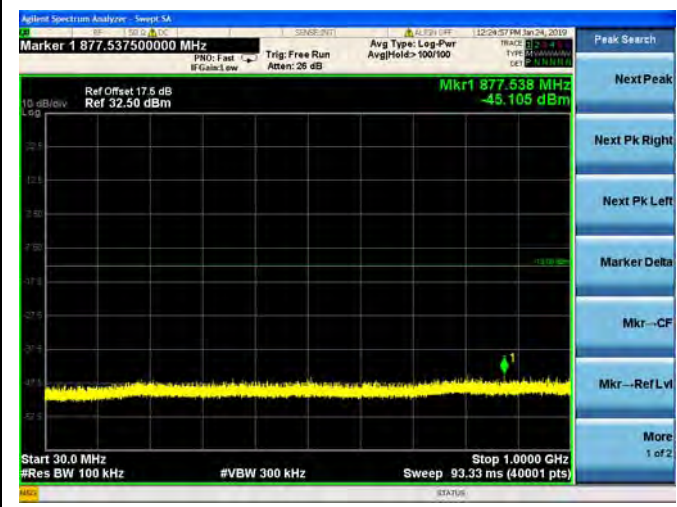
16QAM



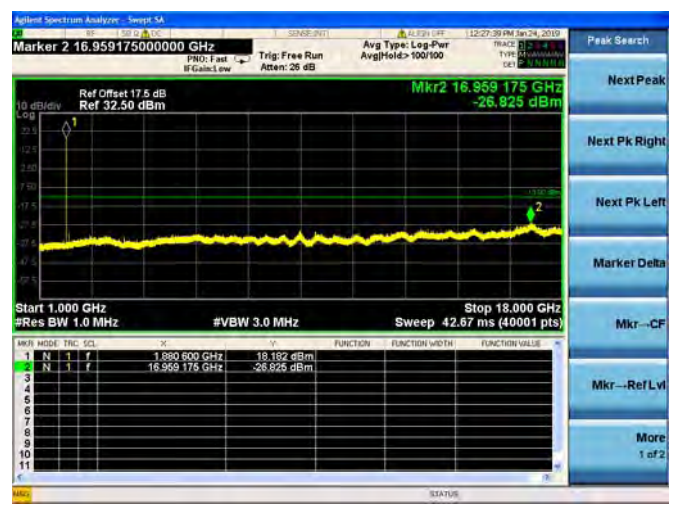
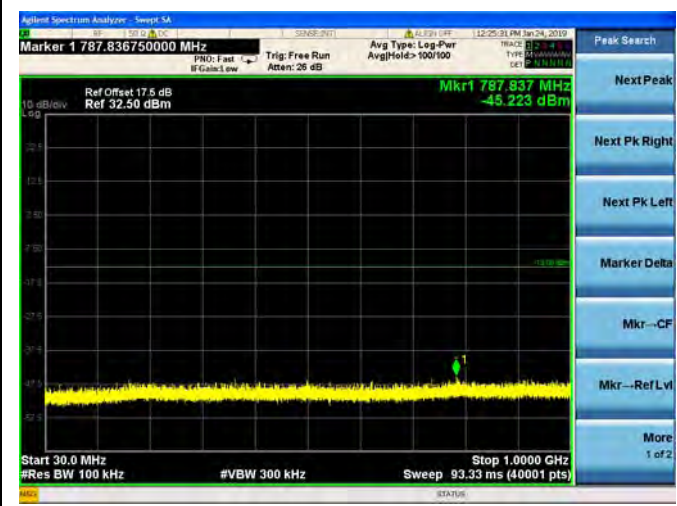


LTE Band 2 1.4MHz BW Mid Channel

QPSK



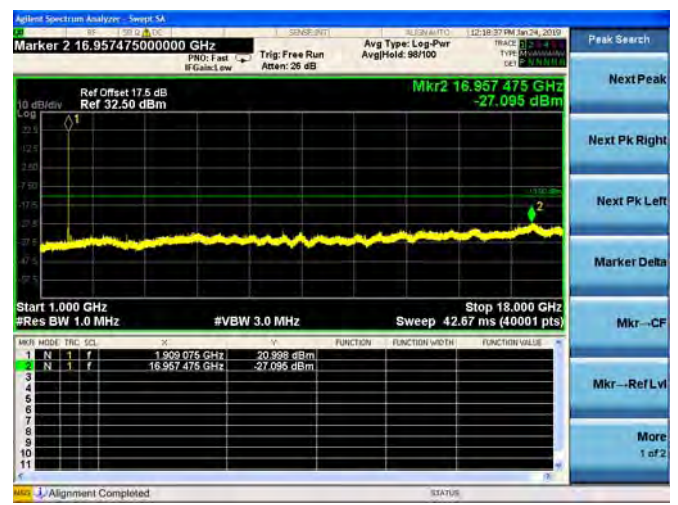
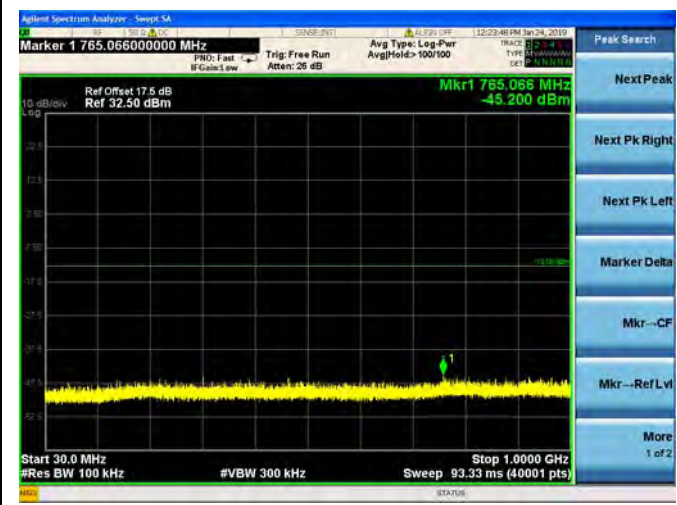
16QAM



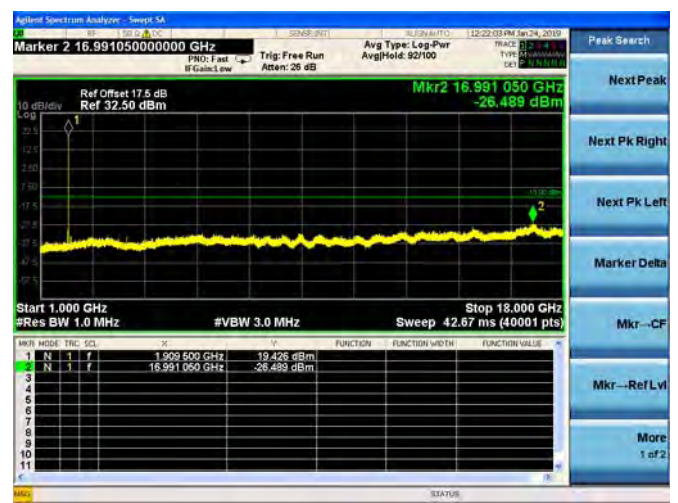
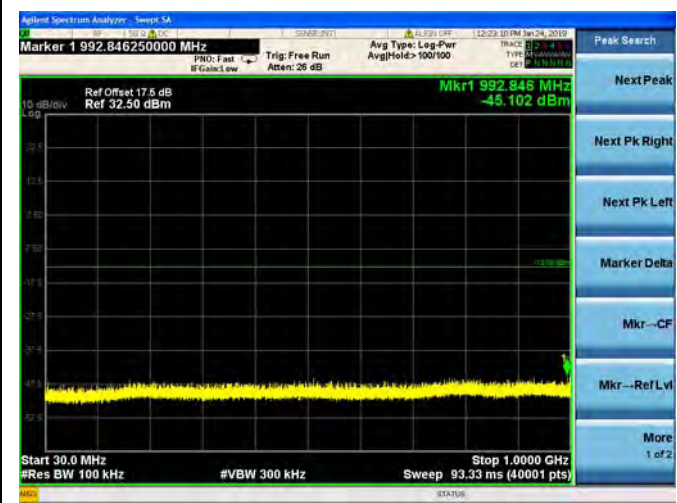


LTE Band 2 1.4MHz BW High Channel

QPSK



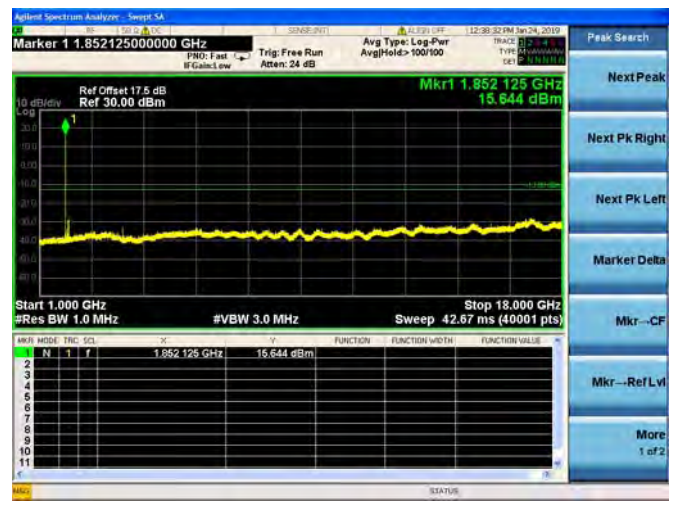
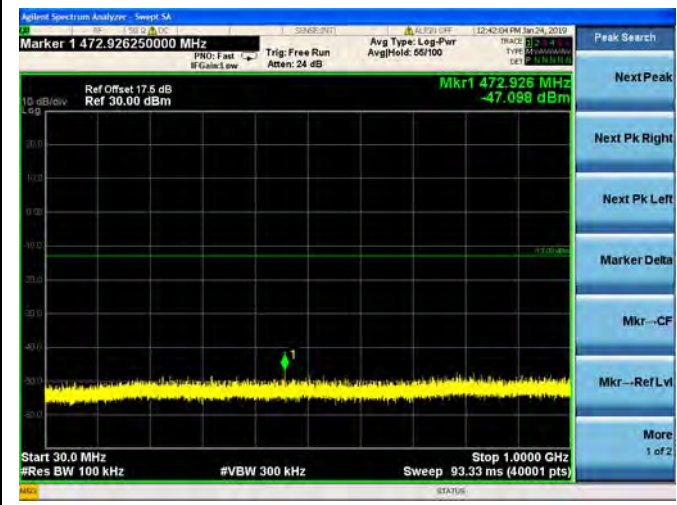
16QAM



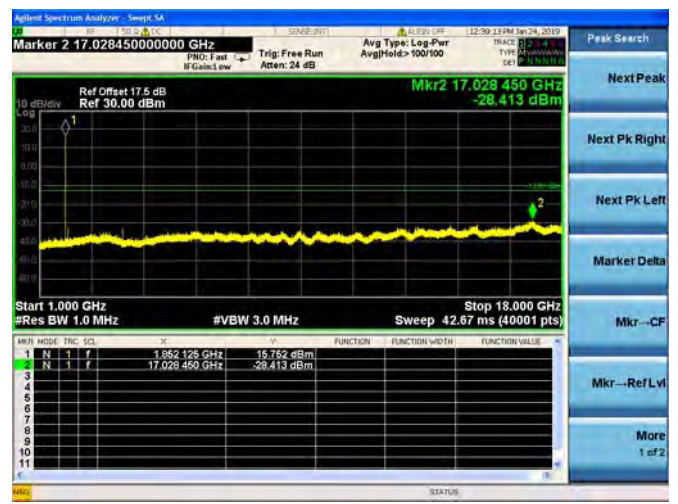
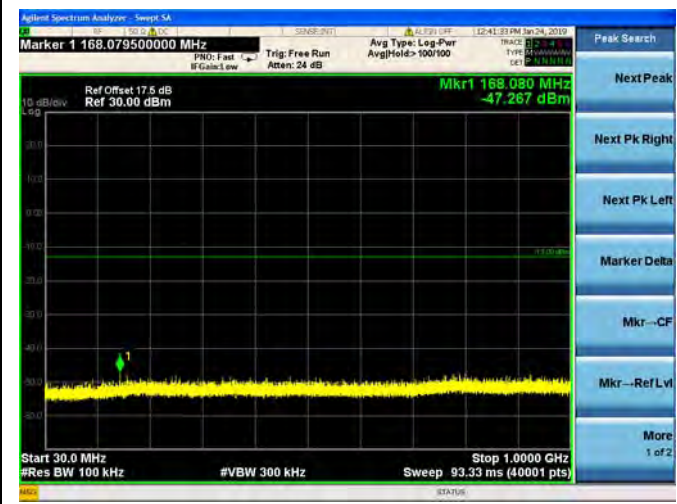


LTE Band 2 3MHz BW Low Channel

QPSK



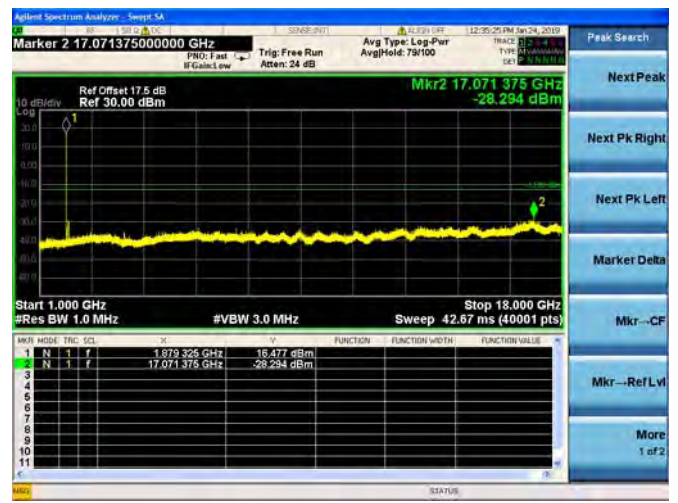
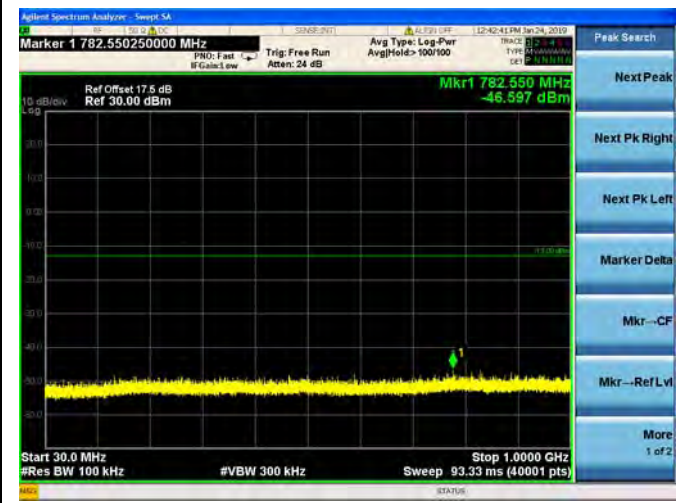
16QAM



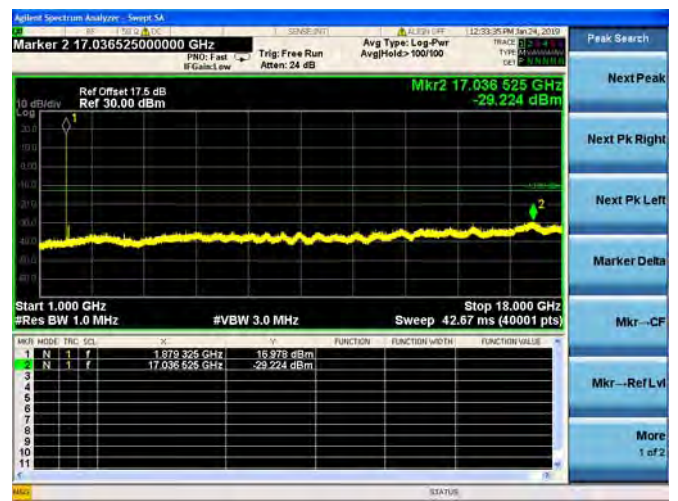
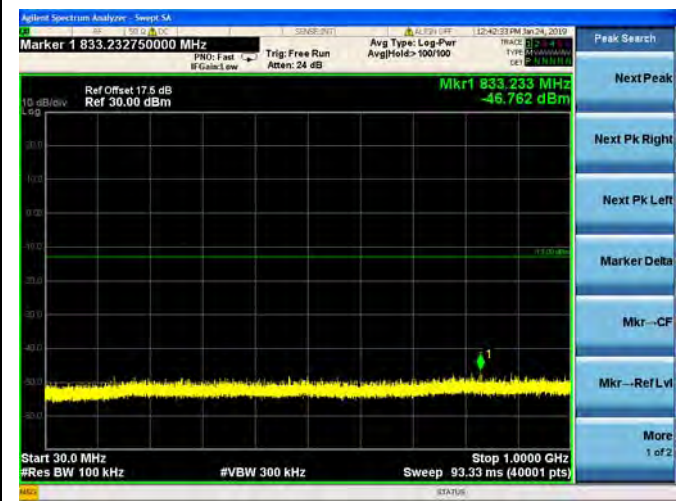


LTE Band 2 3MHz BW Mid Channel

QPSK

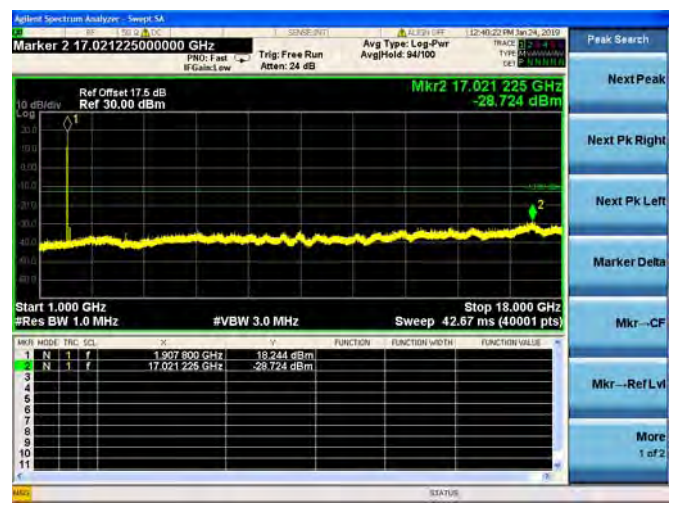
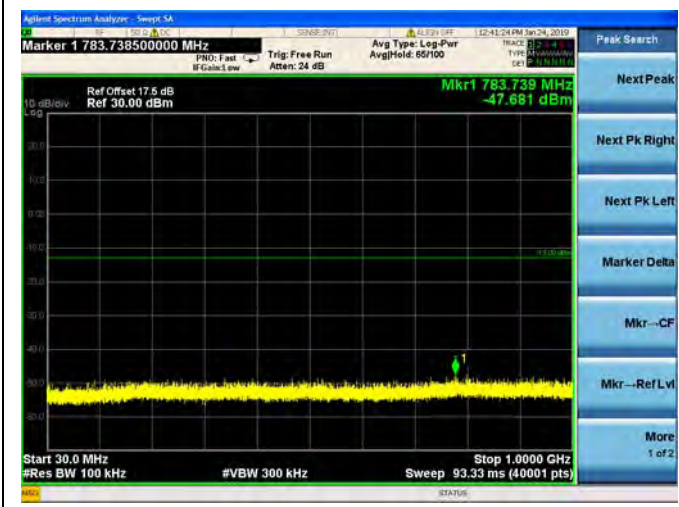


16QAM

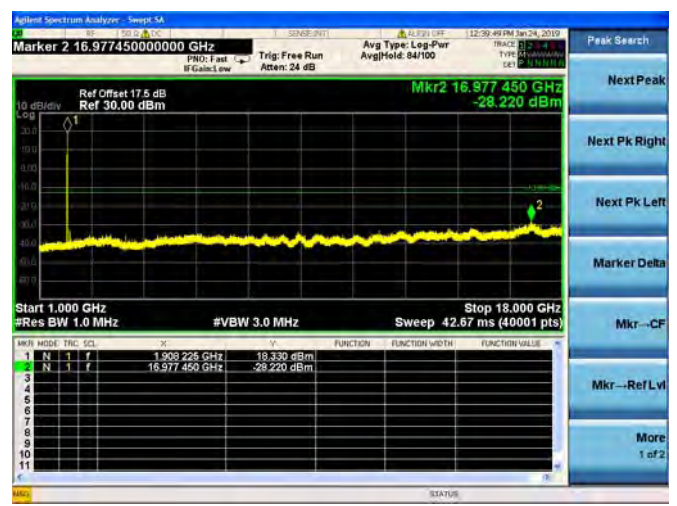
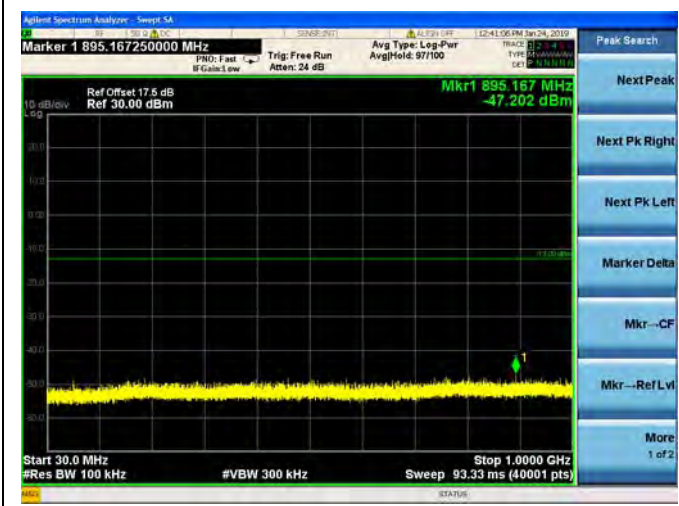




LTE Band 2 3MHz BW High Channel
QPSK



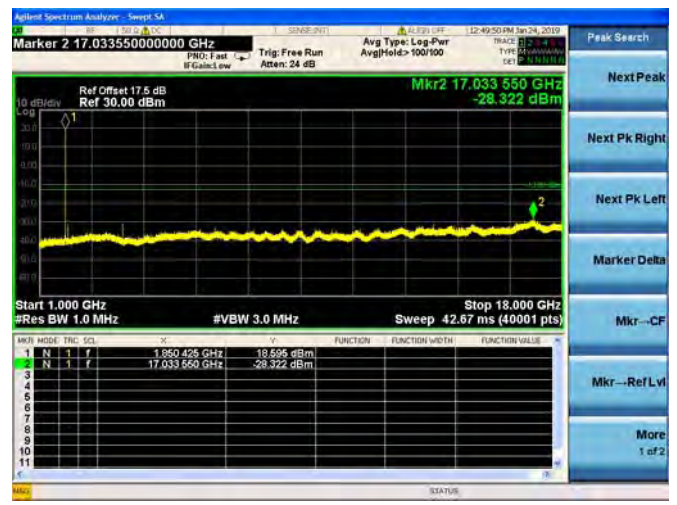
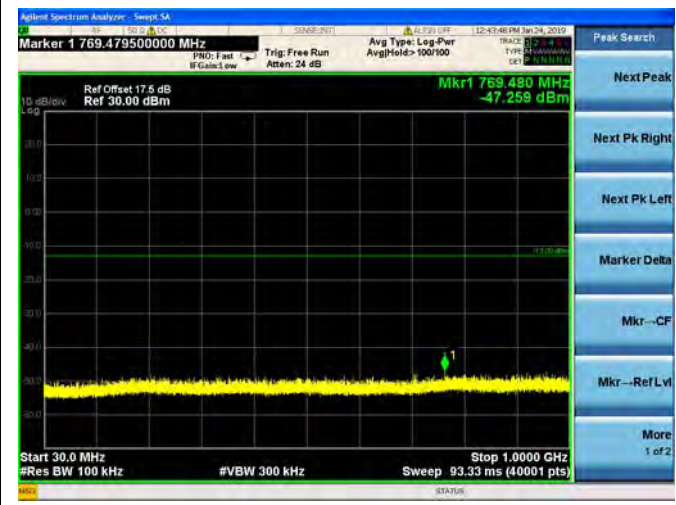
16QAM



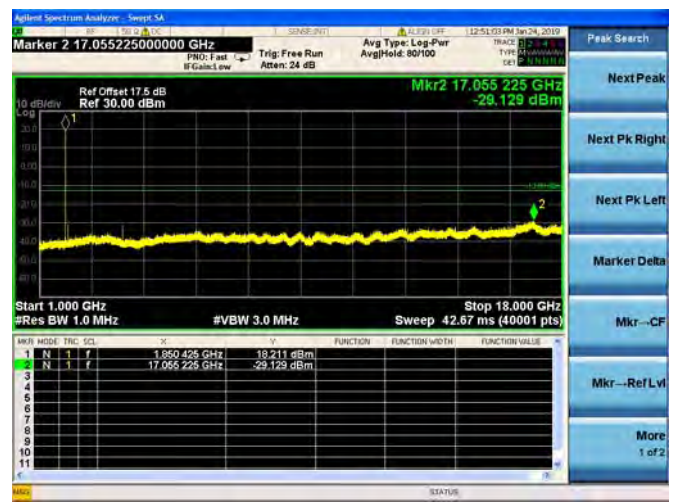
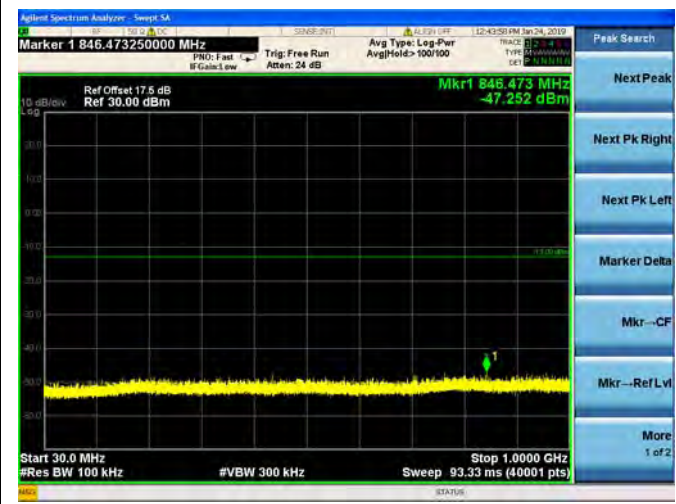


LTE Band 2 5MHz BW Low Channel

QPSK



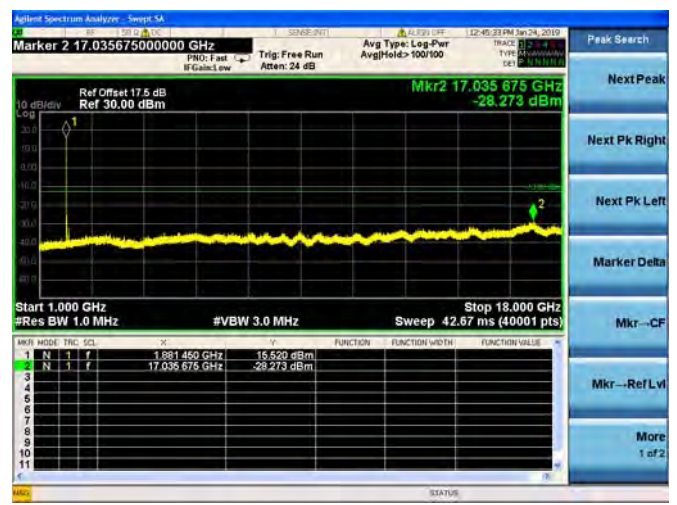
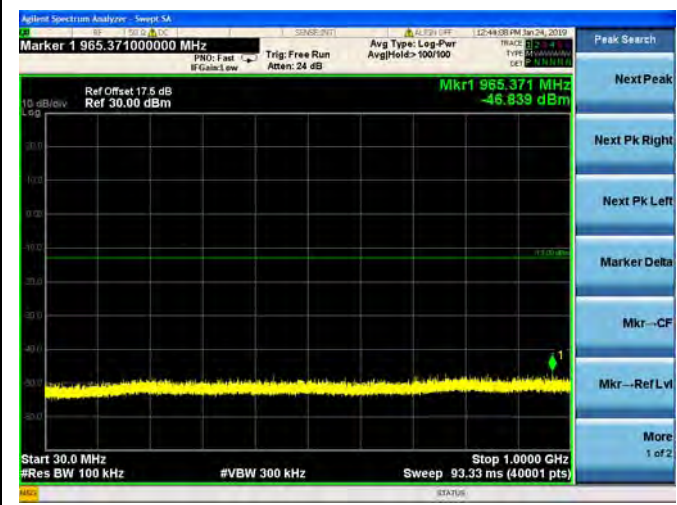
16QAM



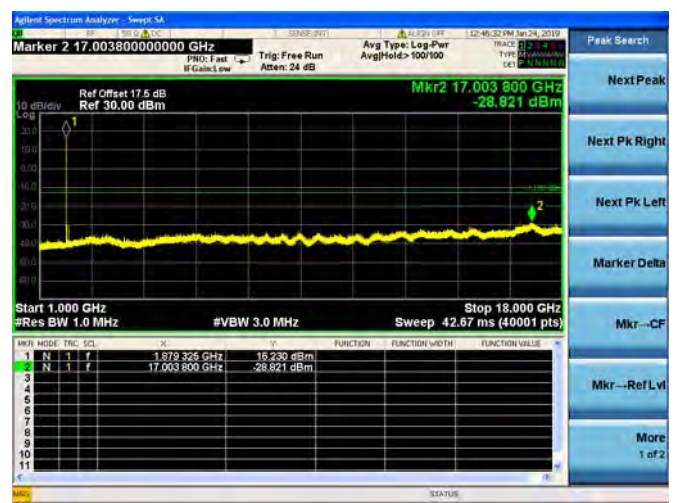
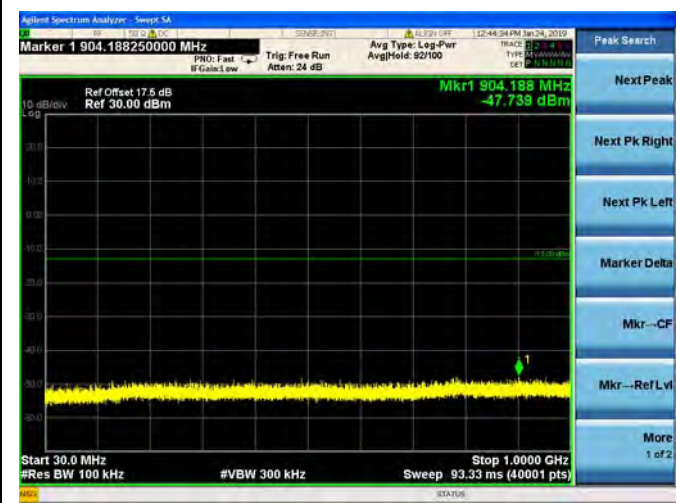


LTE Band 2 5MHz BW Mid Channel

QPSK



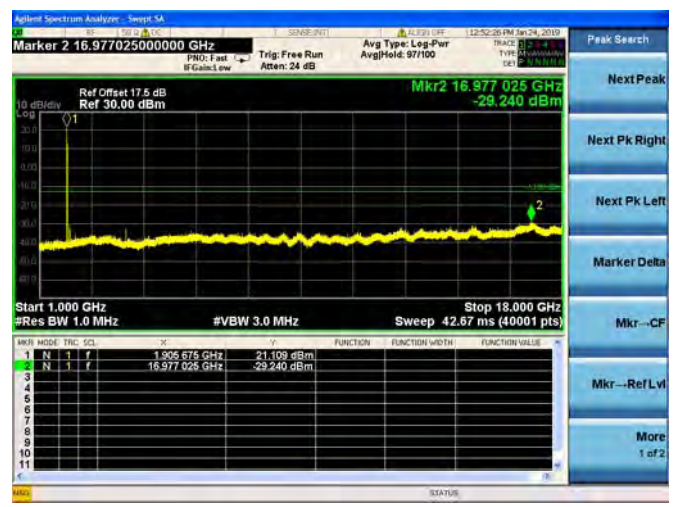
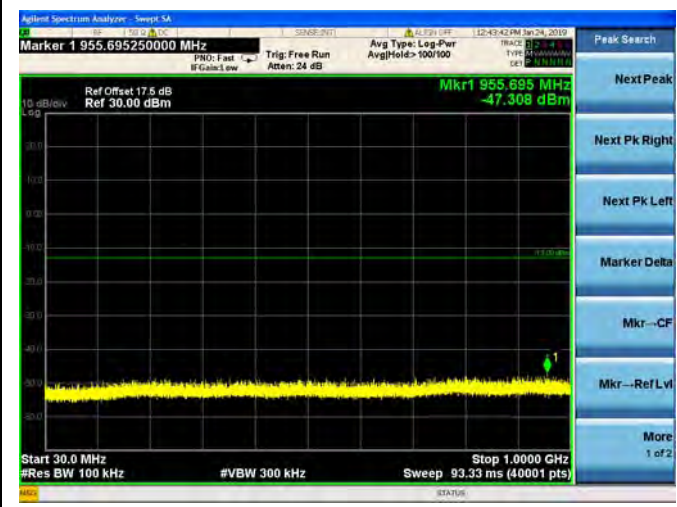
16QAM



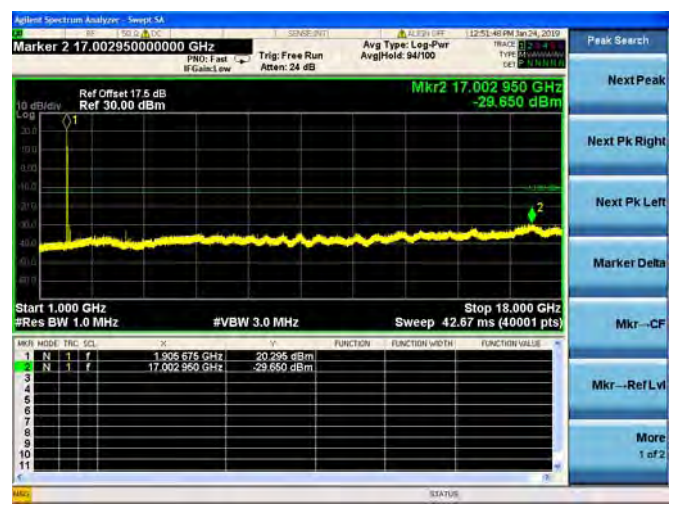
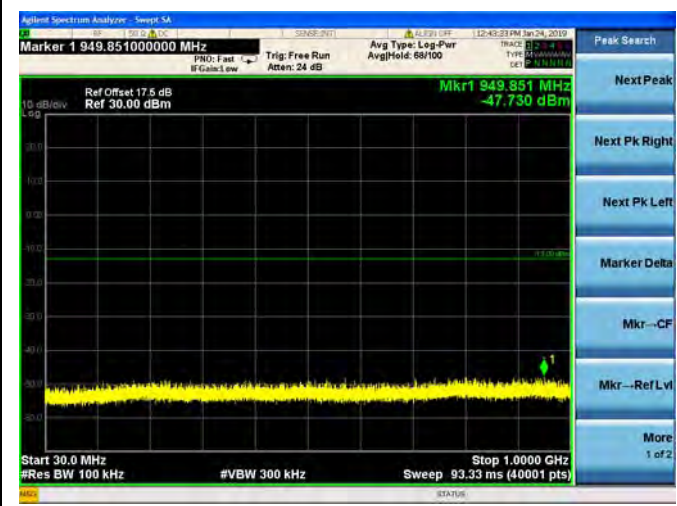


LTE Band 2 5MHz BW High Channel

QPSK



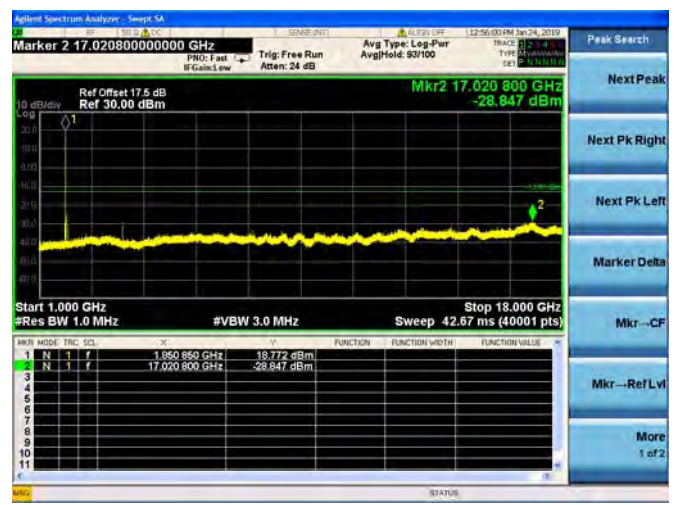
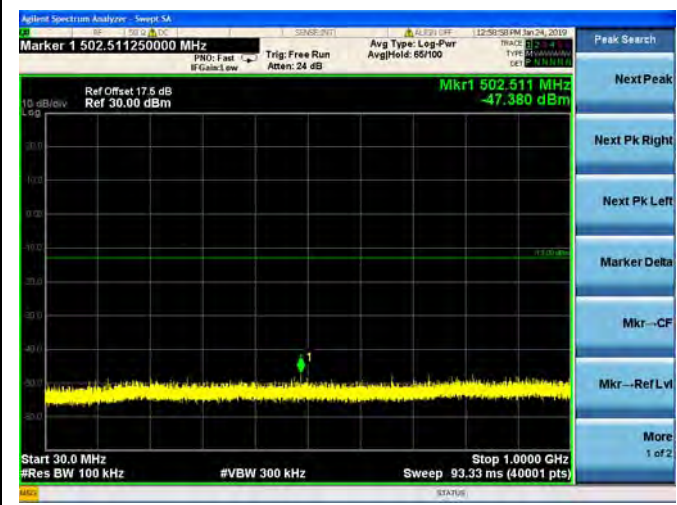
16QAM



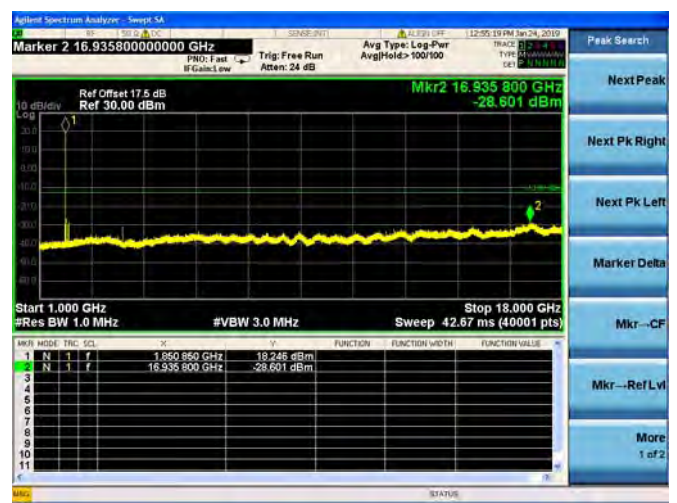
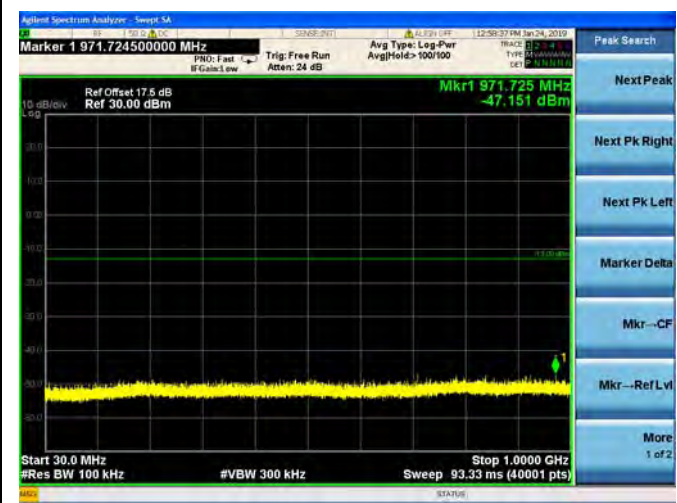


LTE Band 2 10MHz BW Low Channel

QPSK



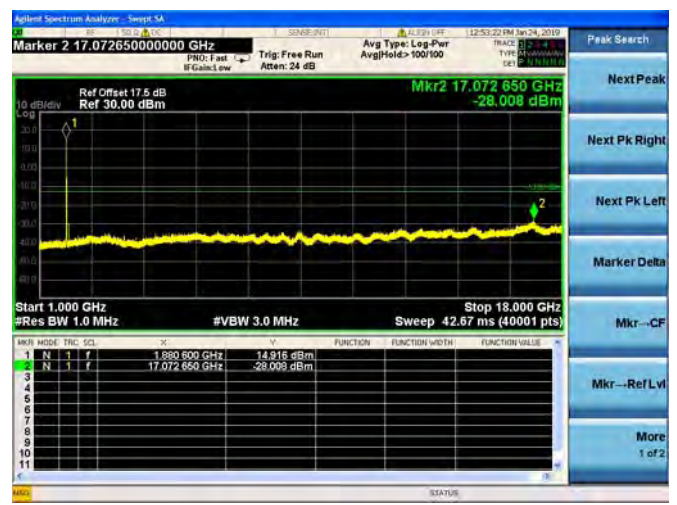
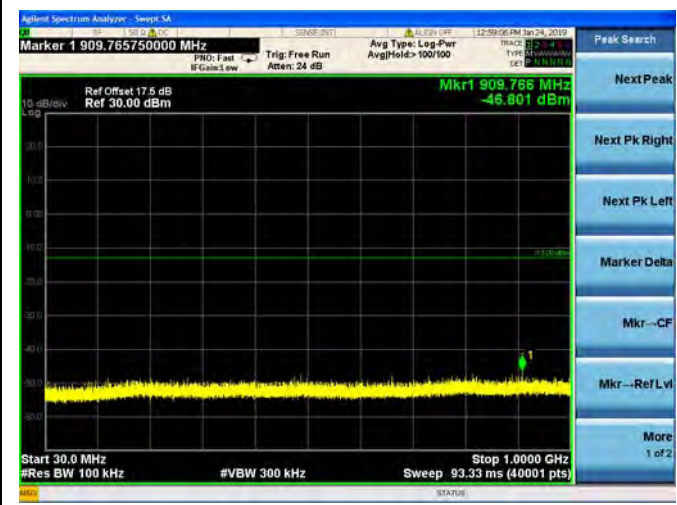
16QAM



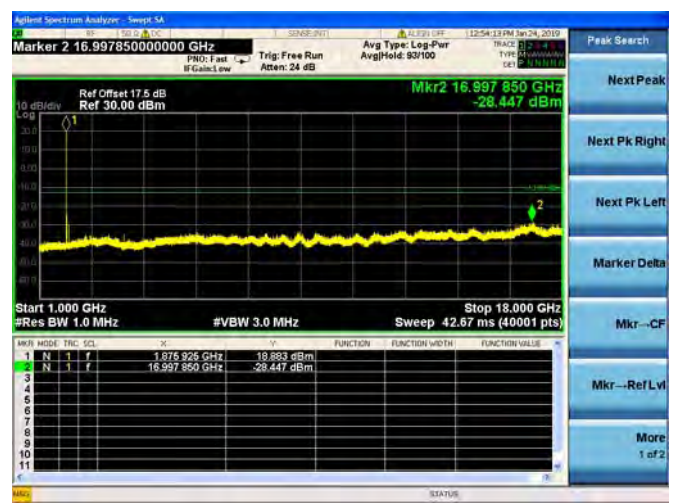
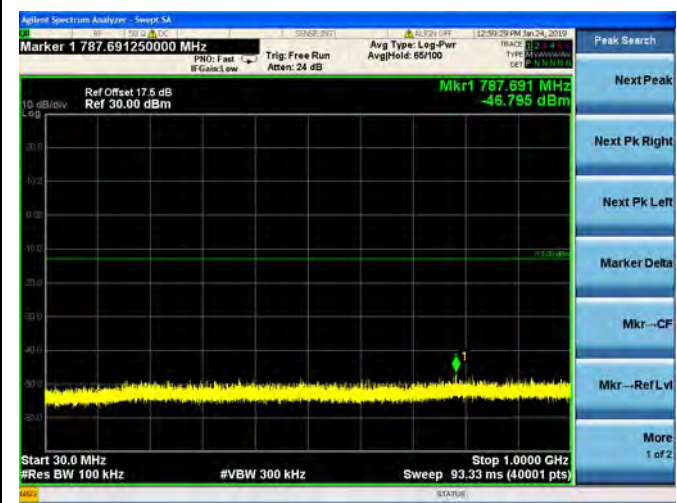


LTE Band 2 10MHz BW Mid Channel

QPSK



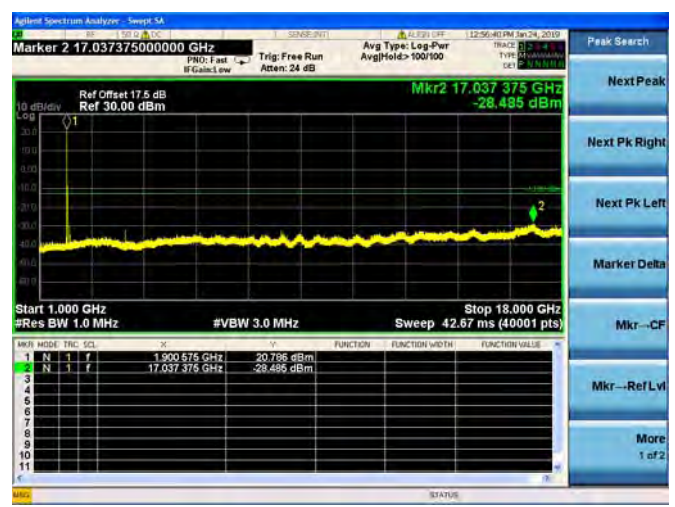
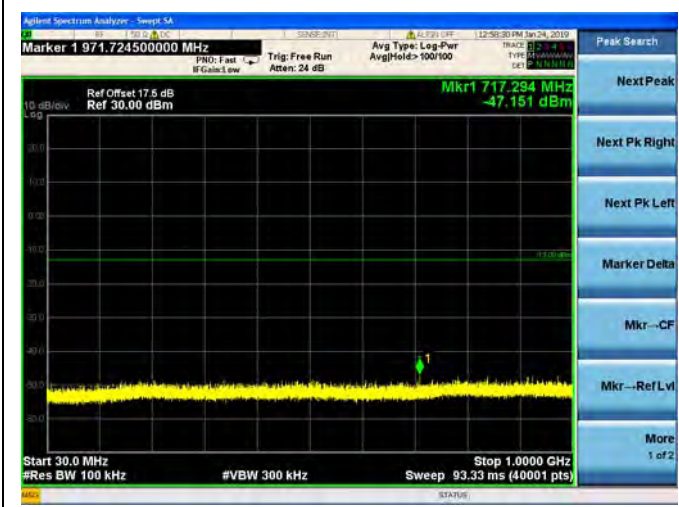
16QAM



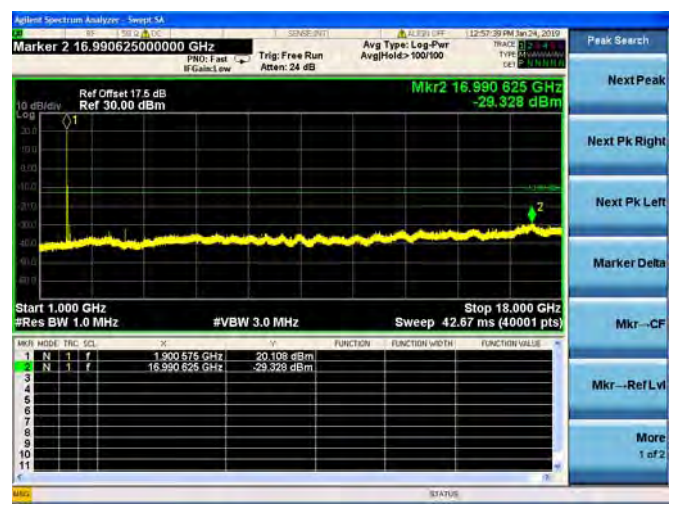
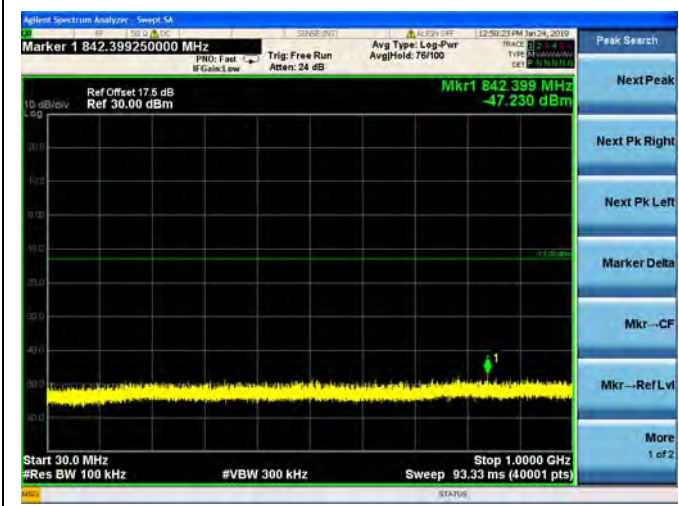


LTE Band 2 10MHz BW High Channel

QPSK



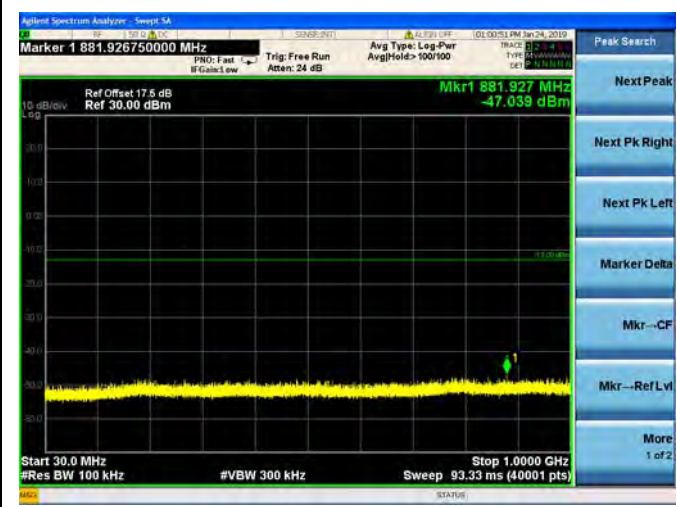
16QAM



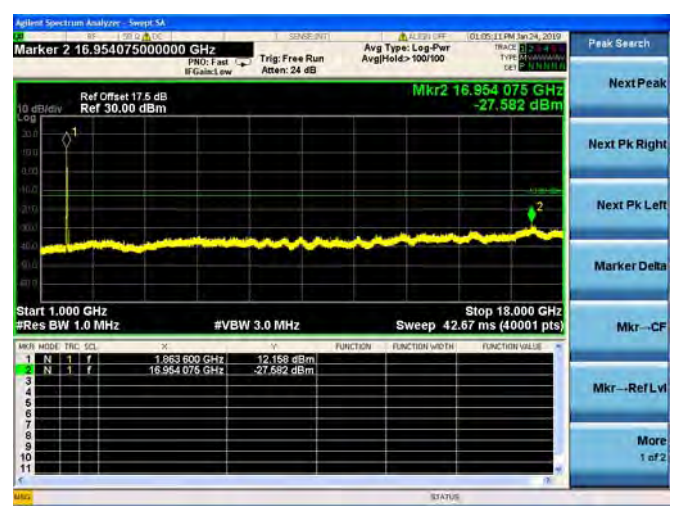
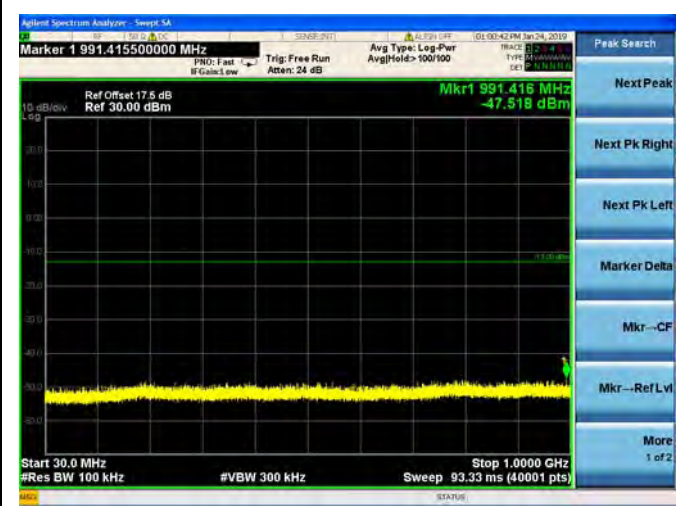


LTE Band 2 15MHz BW Low Channel

QPSK



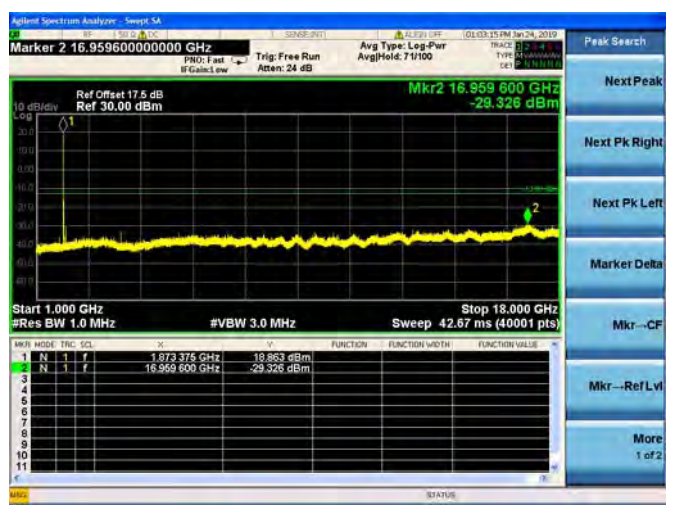
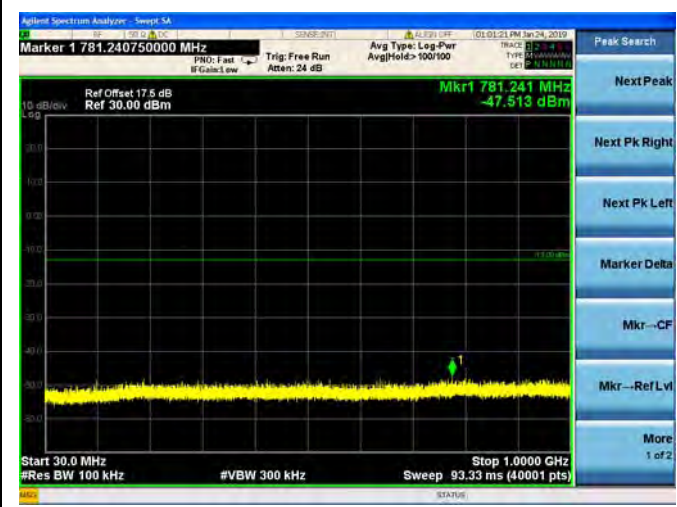
16QAM



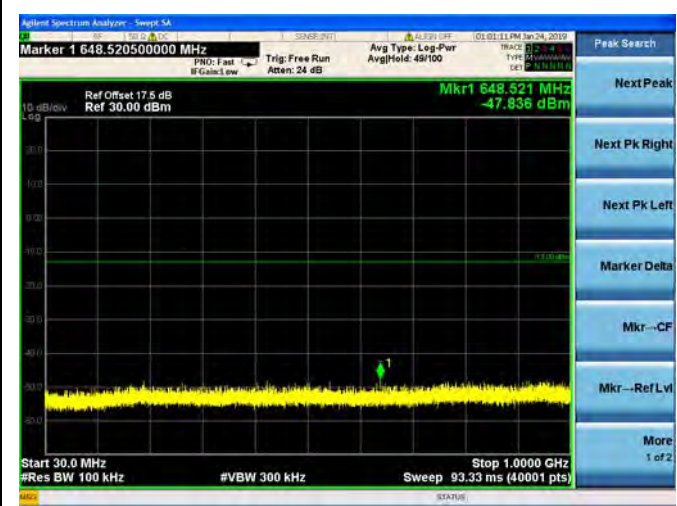


LTE Band 2 15MHz BW Mid Channel

QPSK



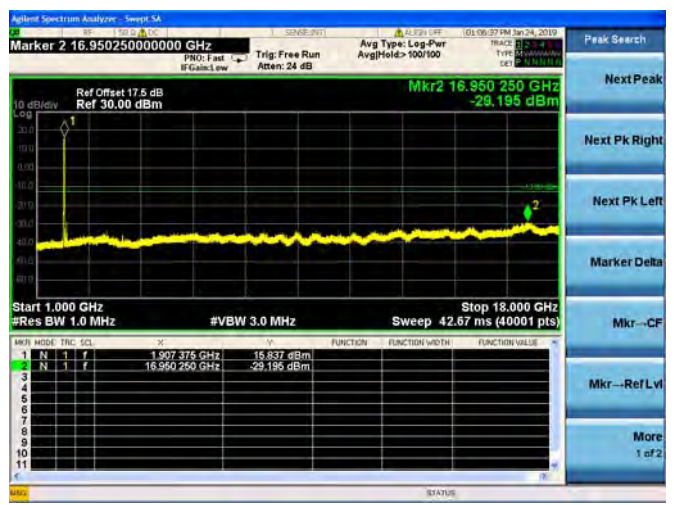
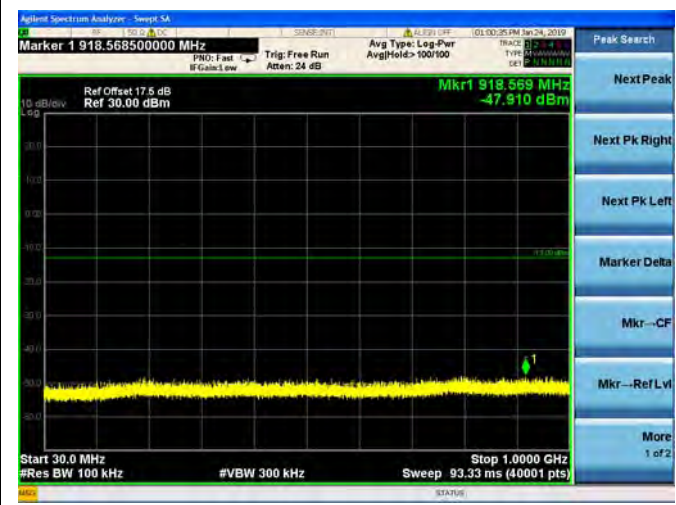
16QAM



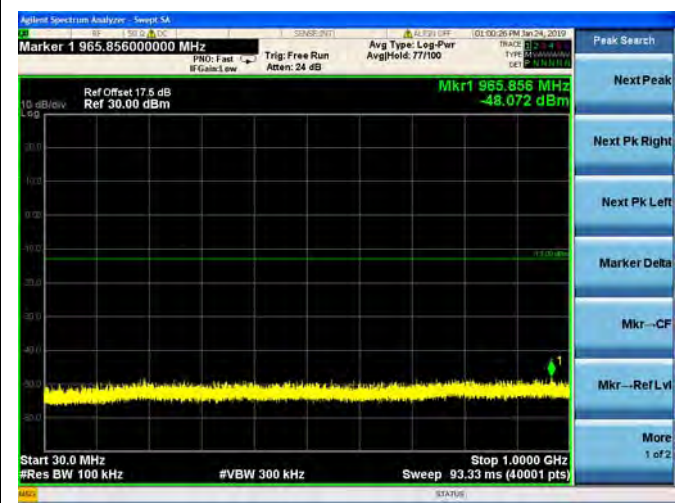


LTE Band 2 15MHz BW High Channel

QPSK



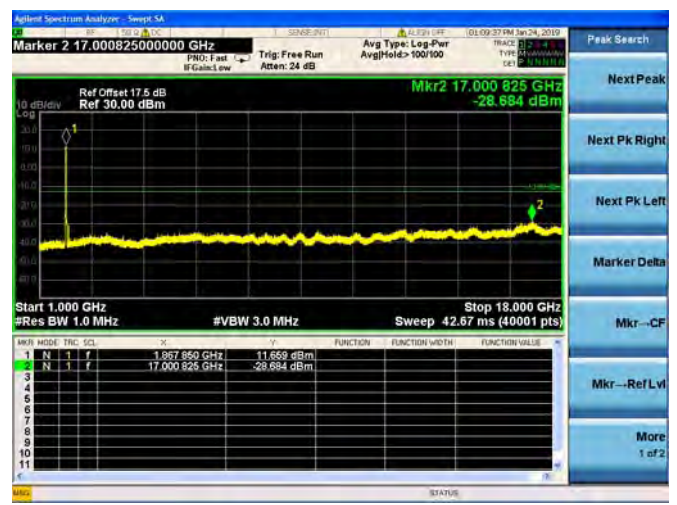
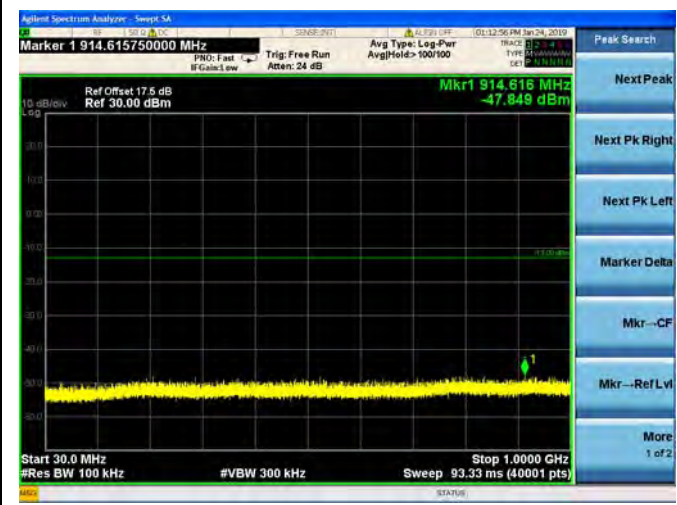
16QAM



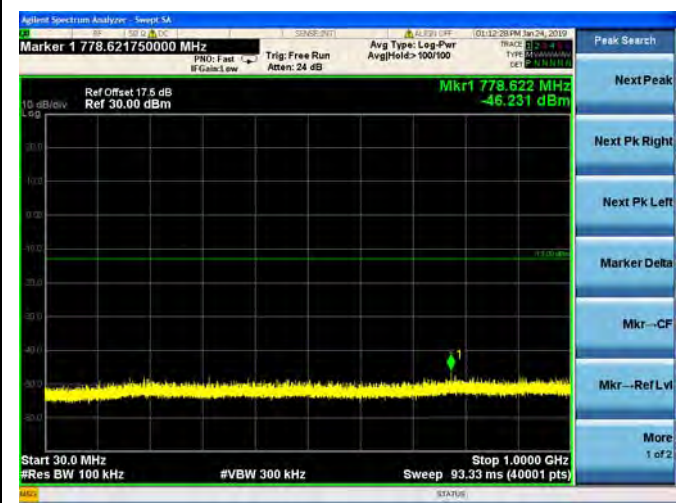


LTE Band 2 20MHz BW Low Channel

QPSK



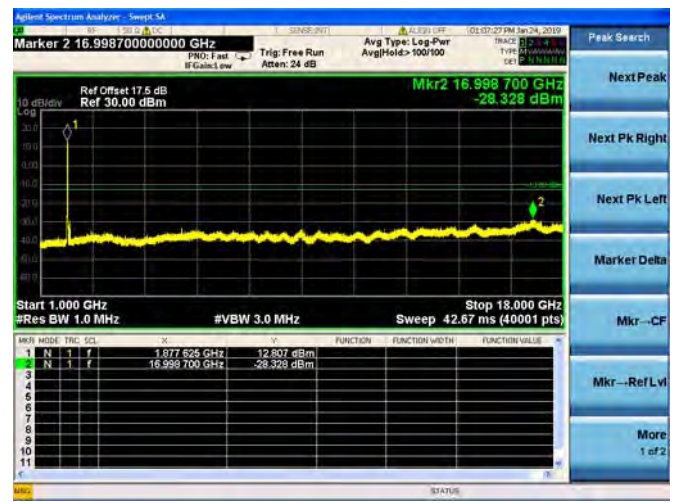
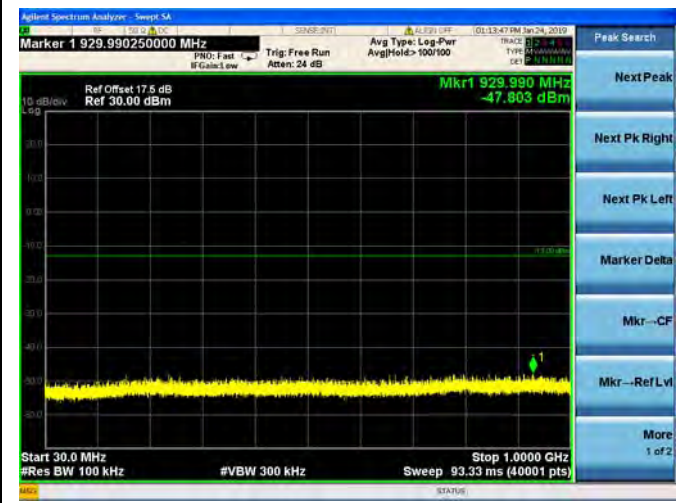
16QAM



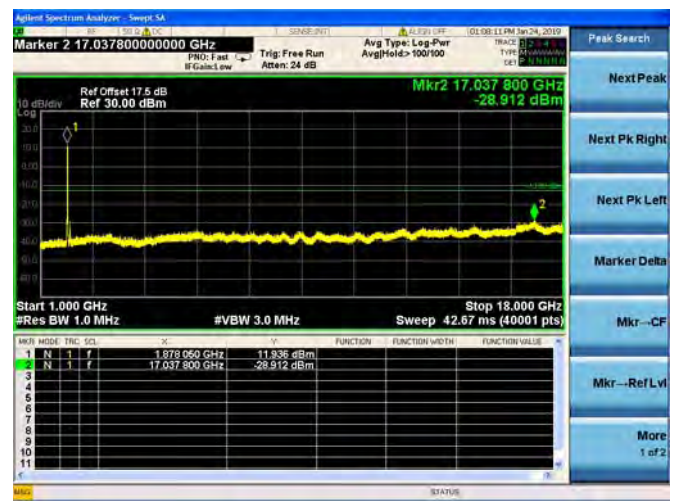
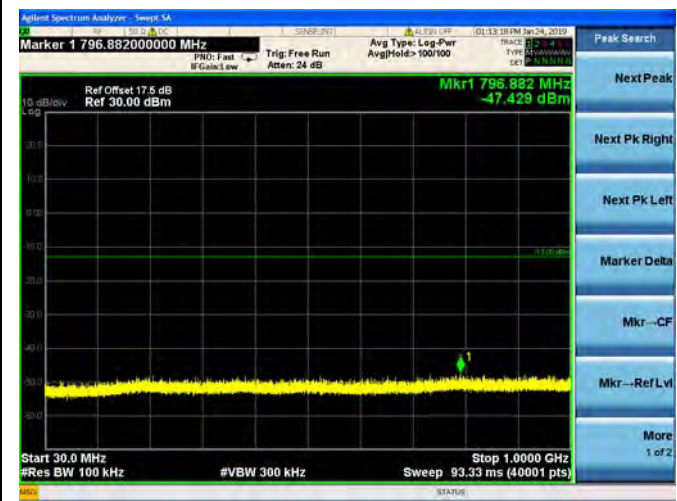


LTE Band 2 20MHz BW Mid Channel

QPSK



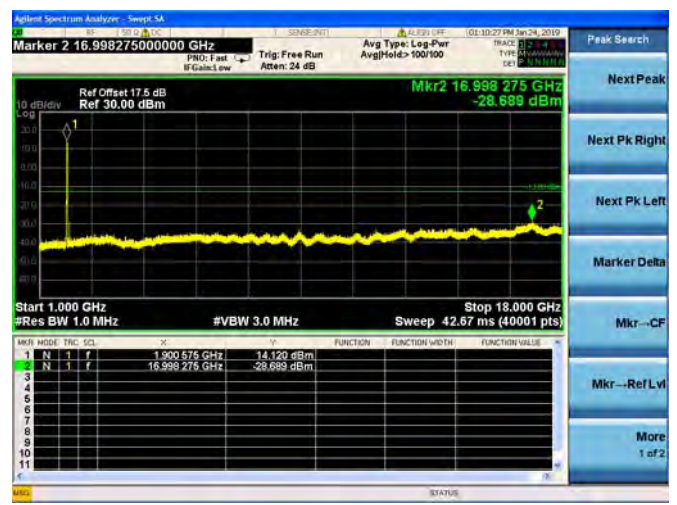
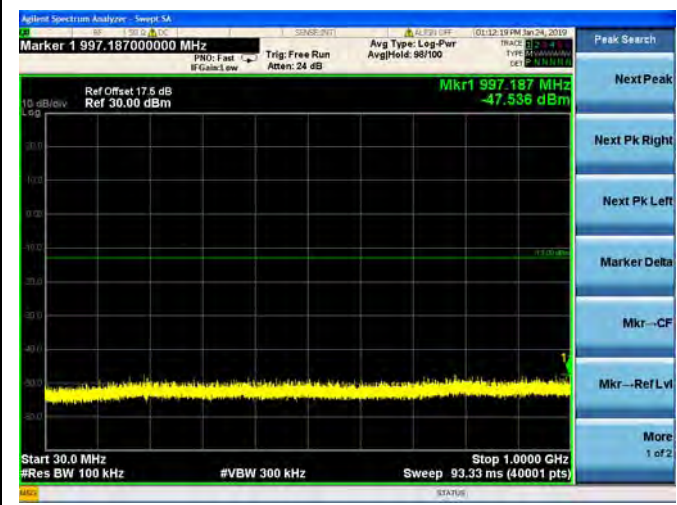
16QAM



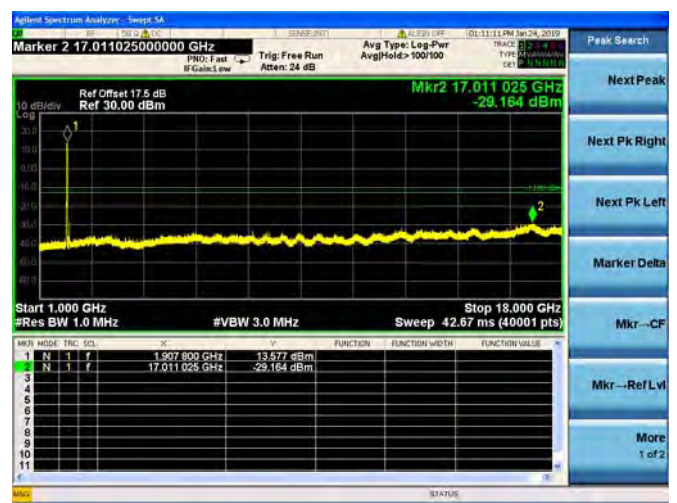
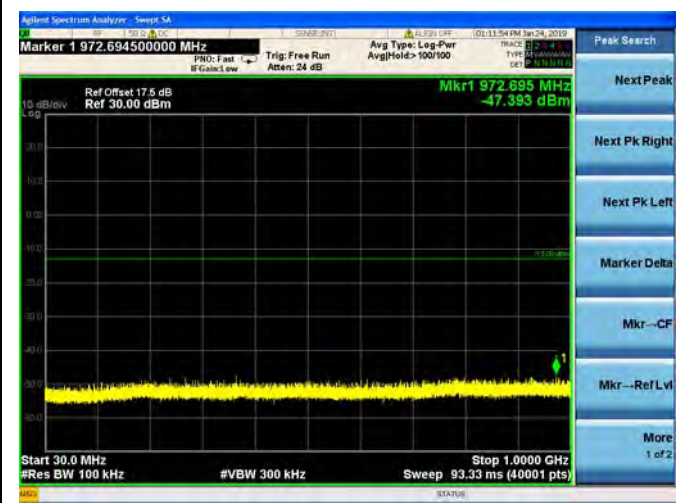


LTE Band 2 20MHz BW High Channel

QPSK



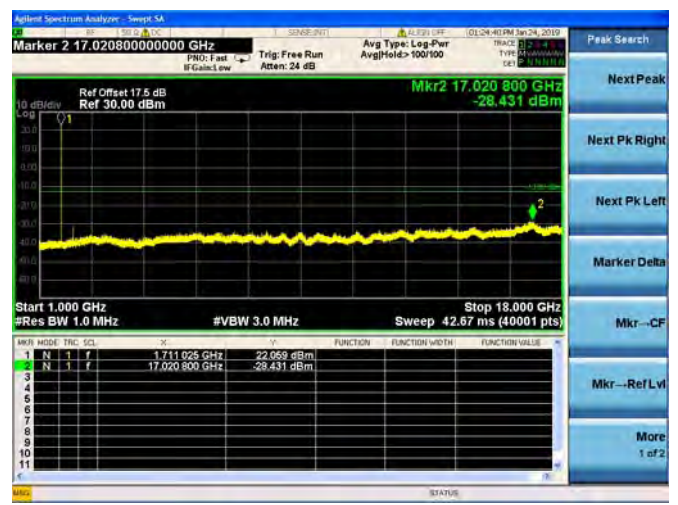
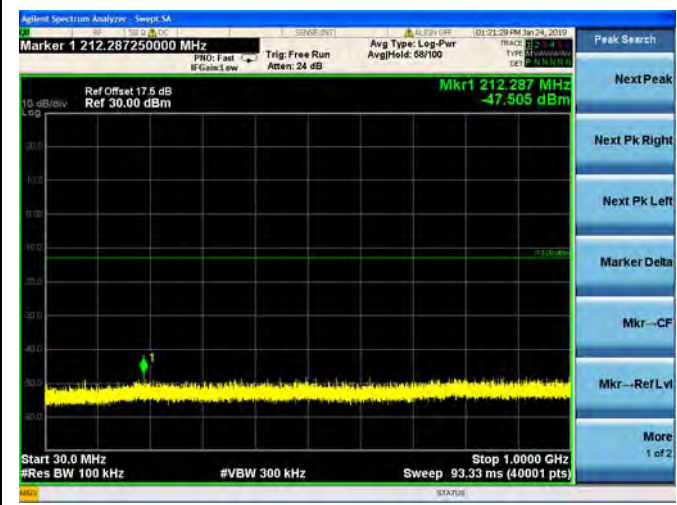
16QAM



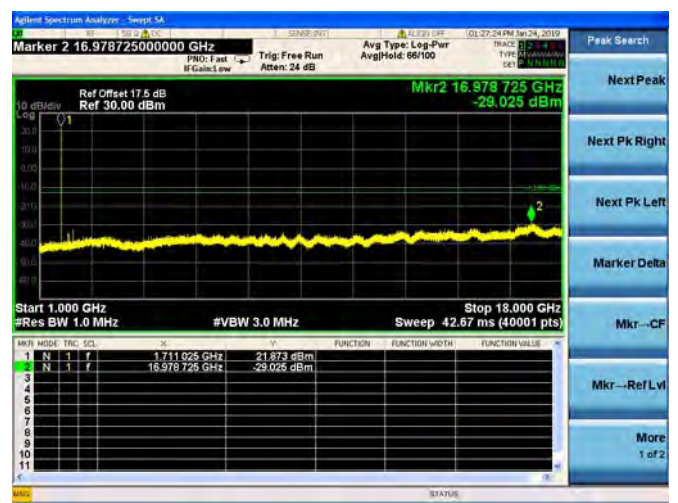
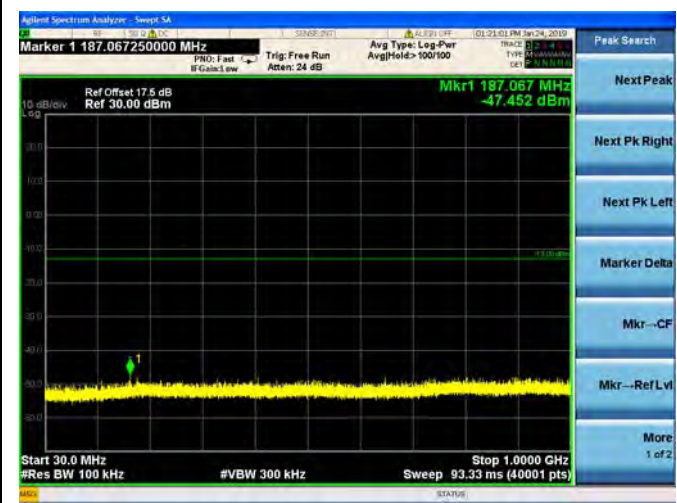


LTE Band 4 1.4MHz BW Low Channel

QPSK



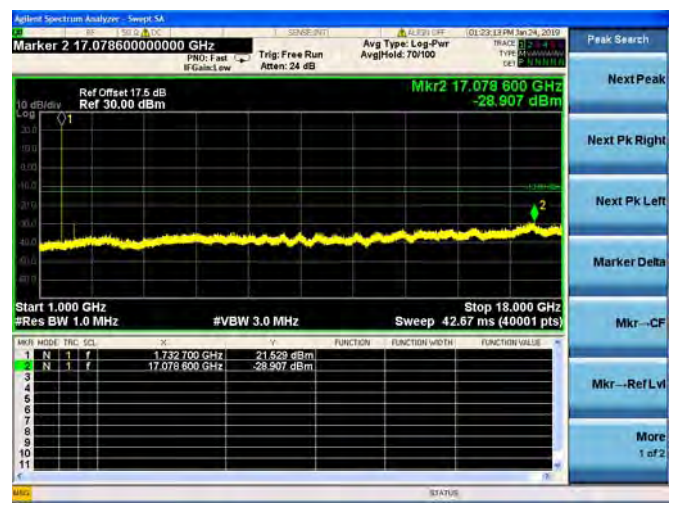
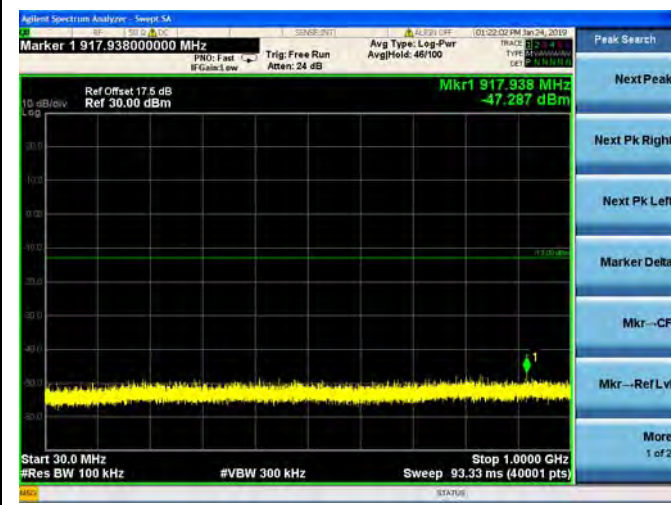
16QAM



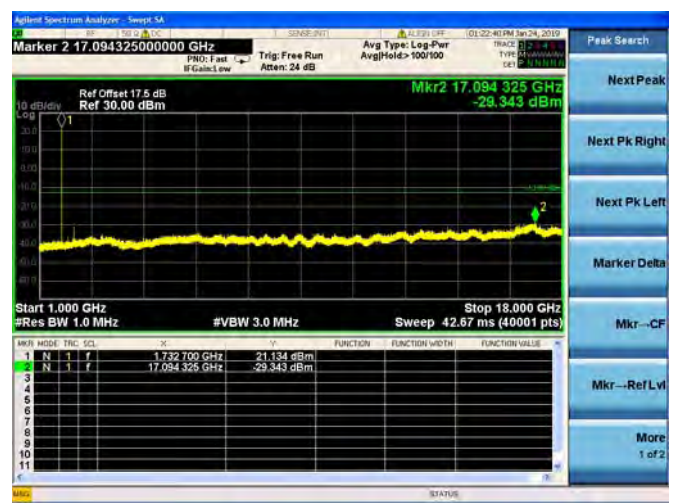
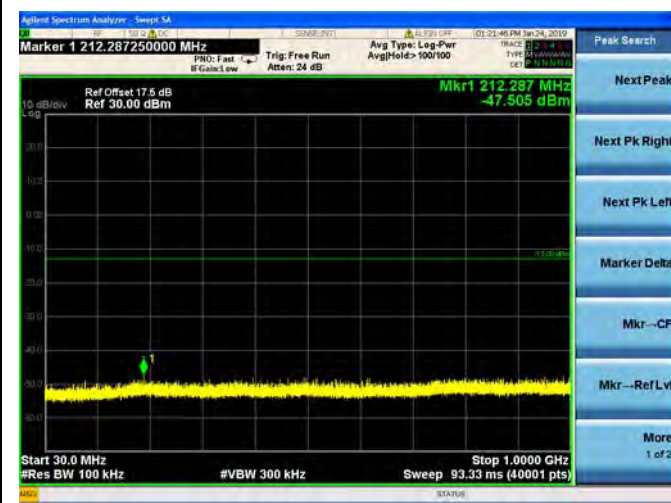


LTE Band 4 1.4MHz BW Mid Channel

QPSK



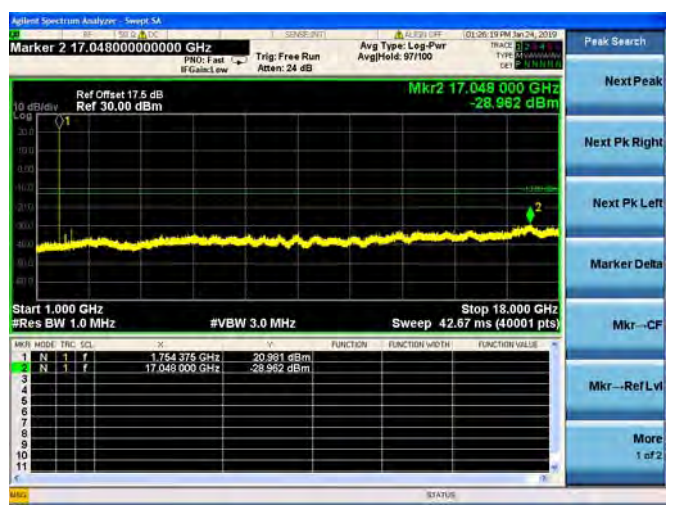
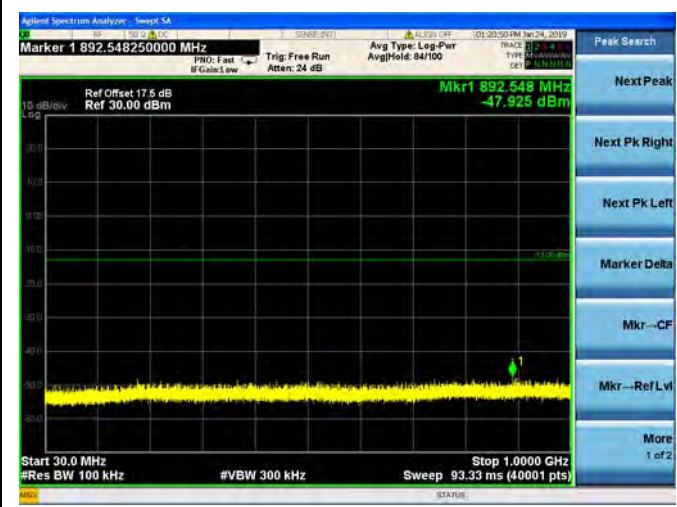
16QAM



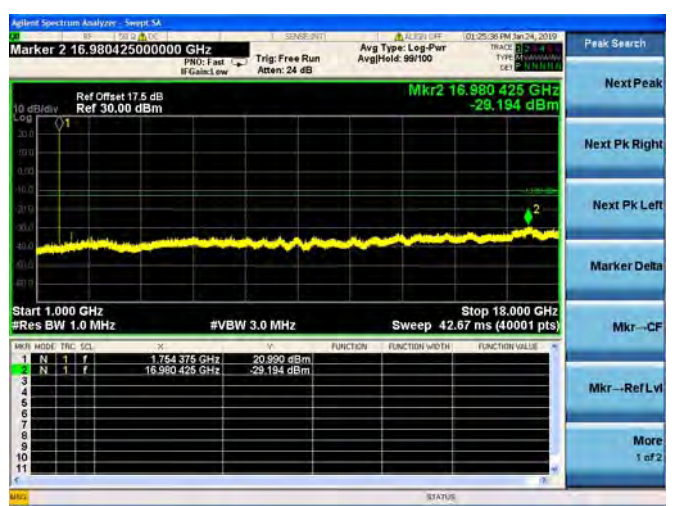
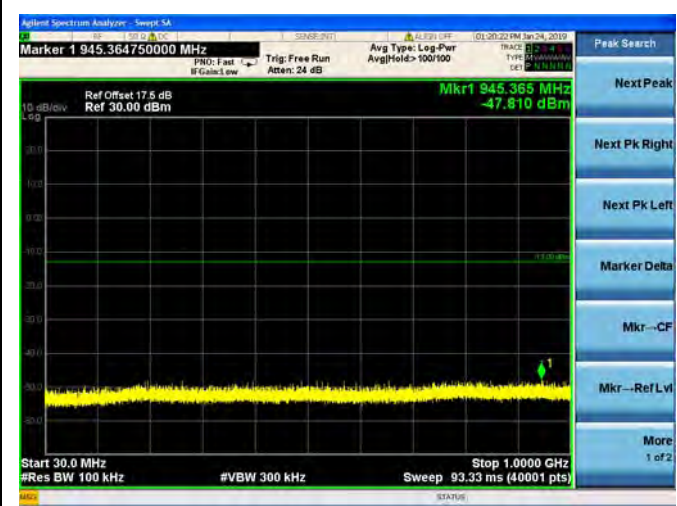


LTE Band 4 1.4MHz BW High Channel

QPSK



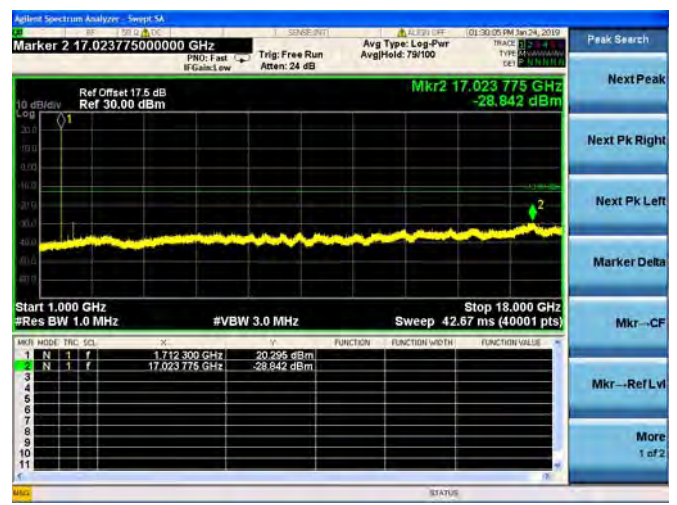
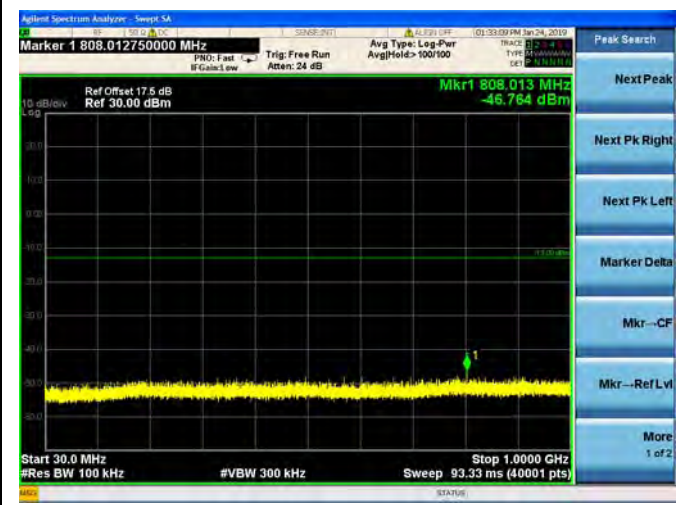
16QAM



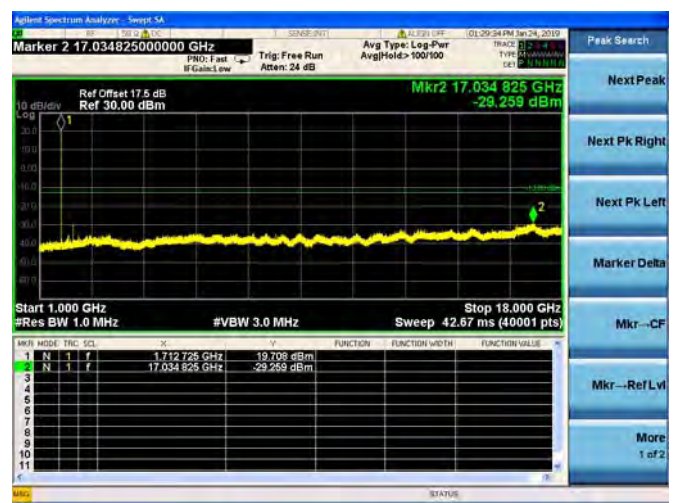
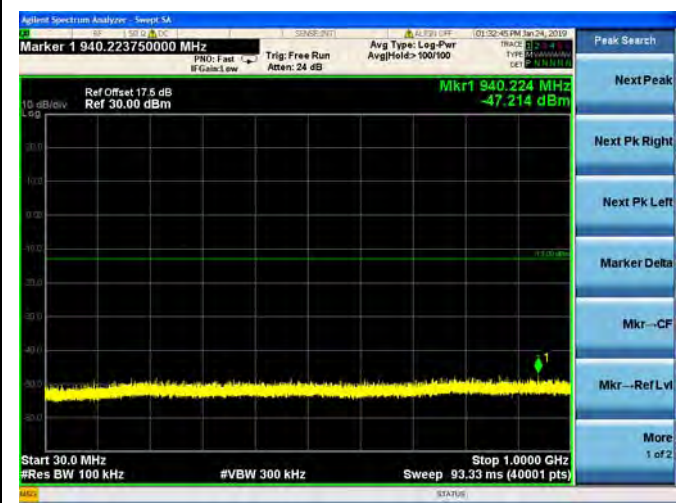


LTE Band 4 3MHz BW Low Channel

QPSK



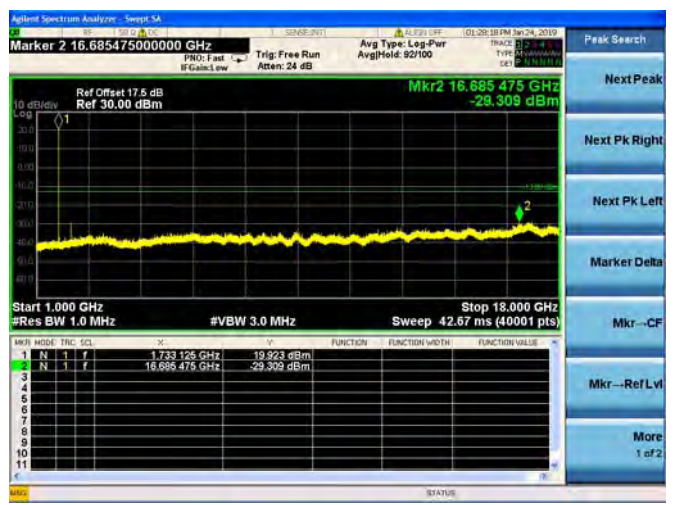
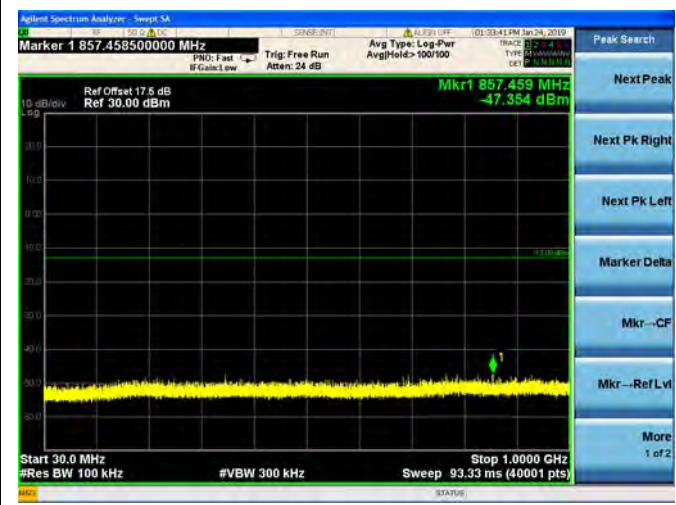
16QAM



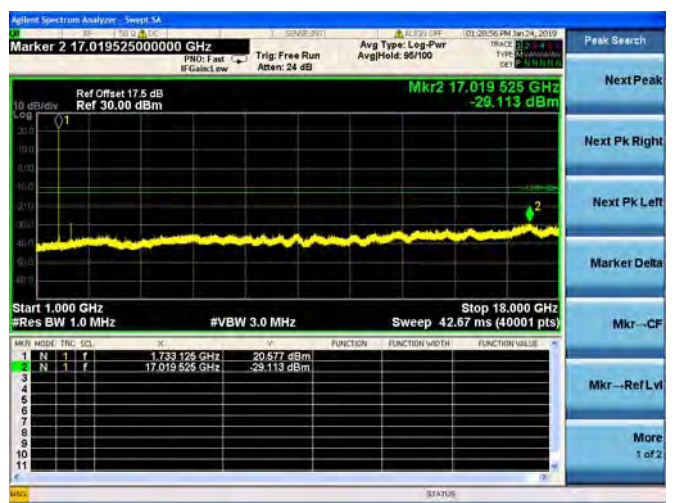
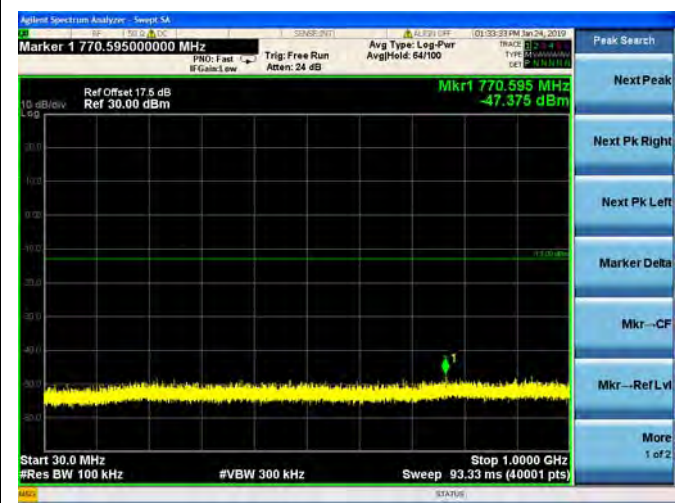


LTE Band 4 3MHz BW Mid Channel

QPSK



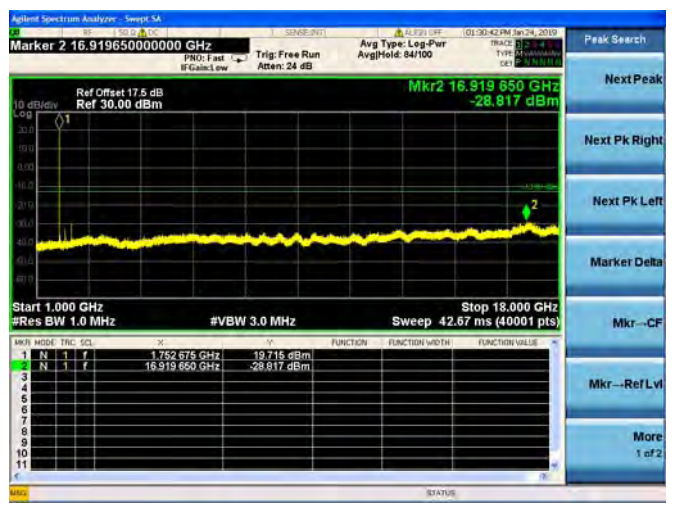
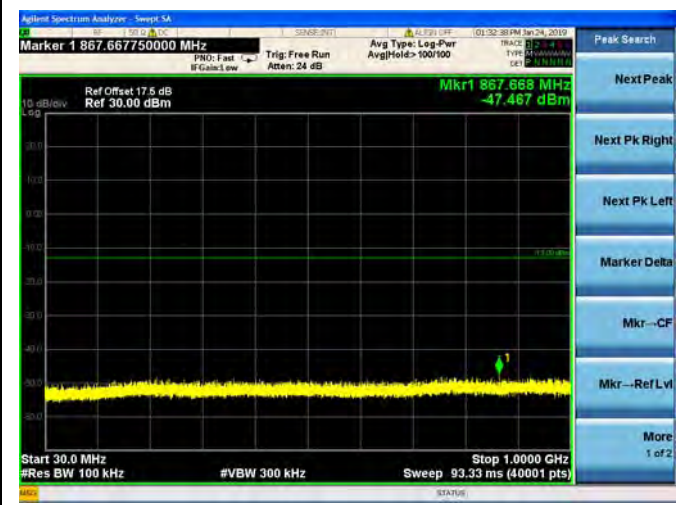
16QAM



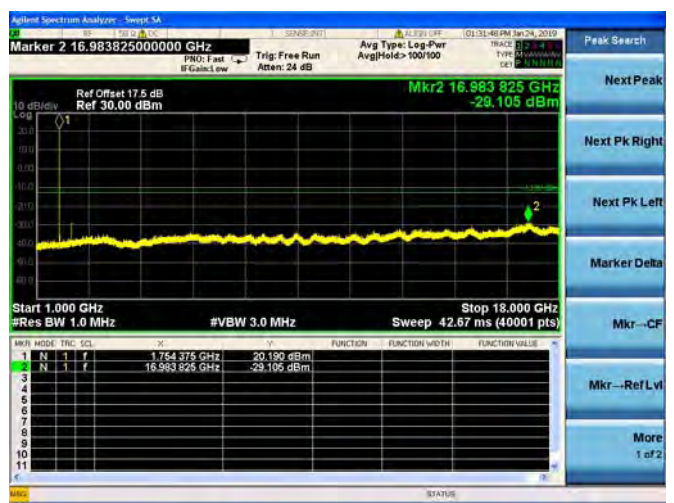
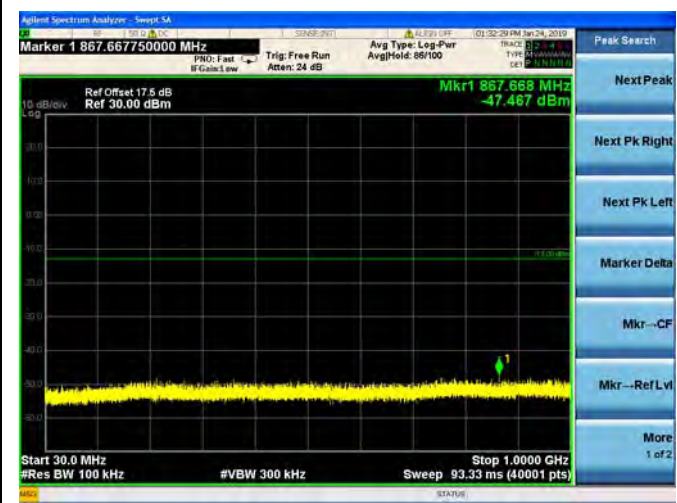


LTE Band 4 3MHz BW High Channel

QPSK



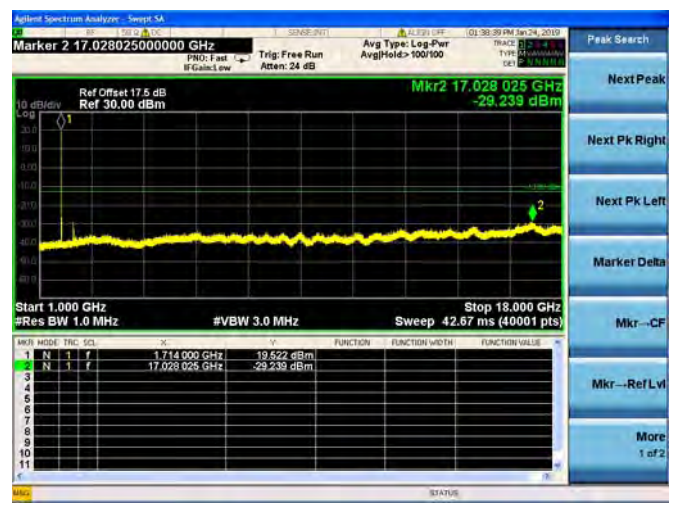
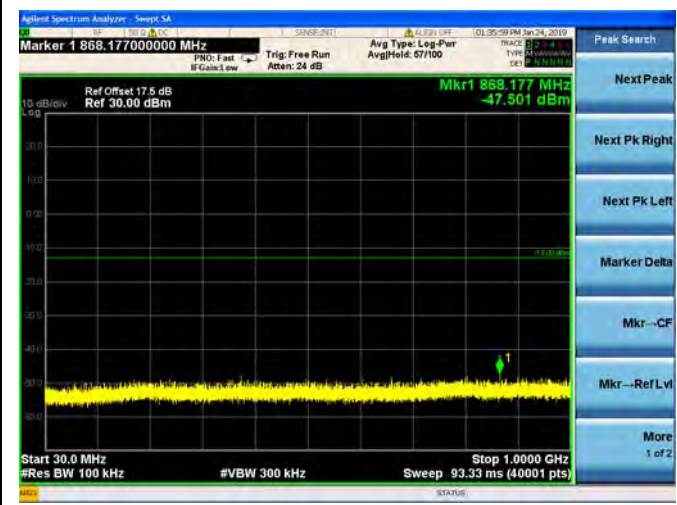
16QAM



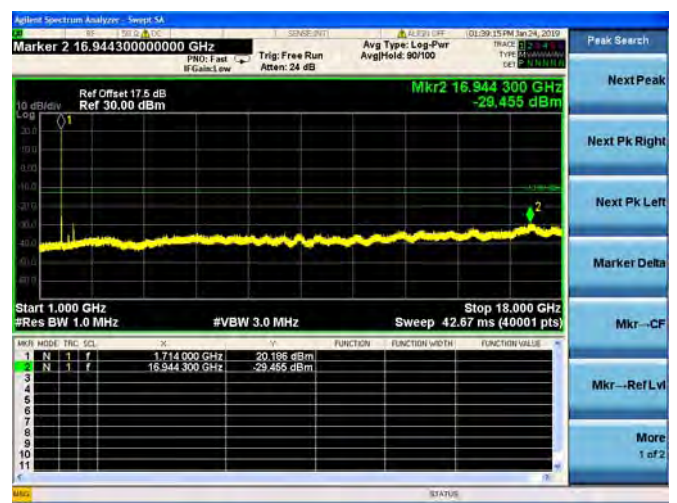
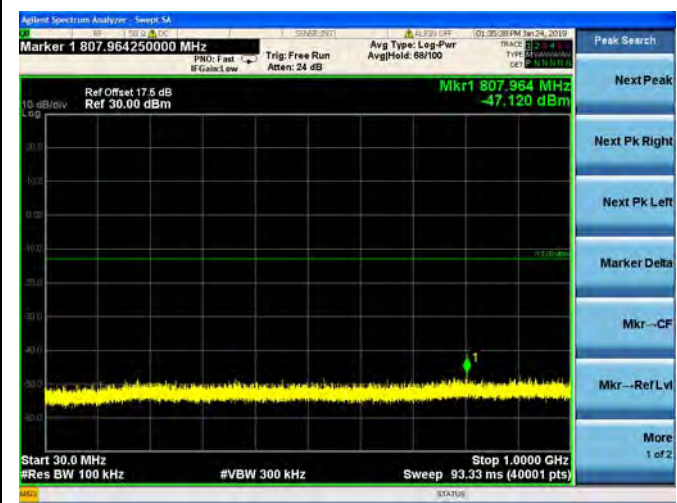


LTE Band 4 5MHz BW Low Channel

QPSK



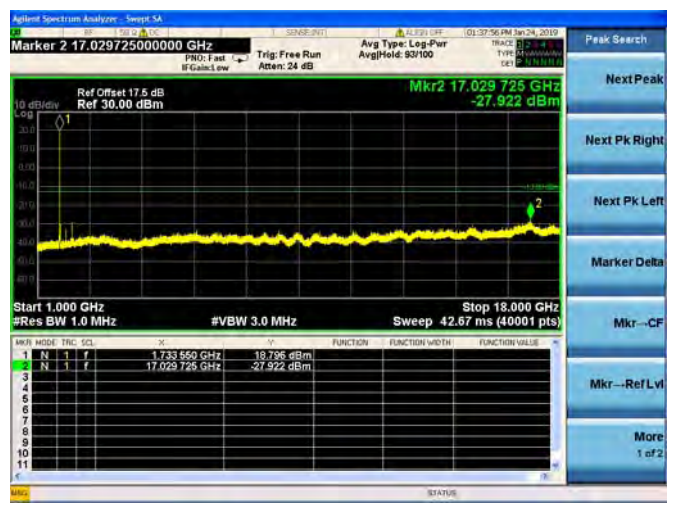
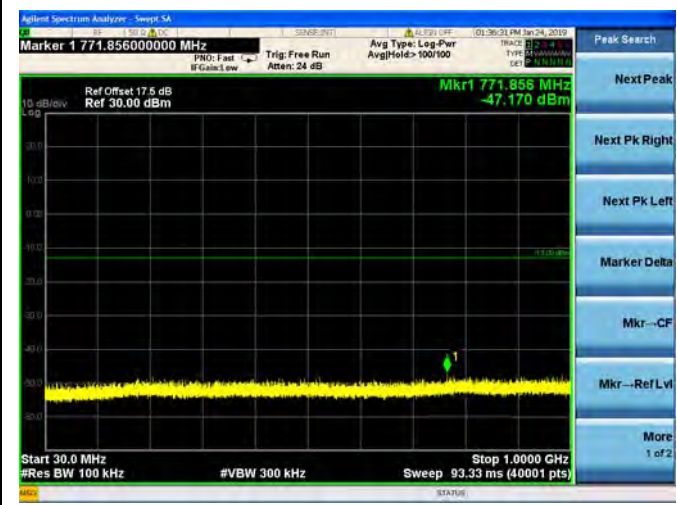
16QAM



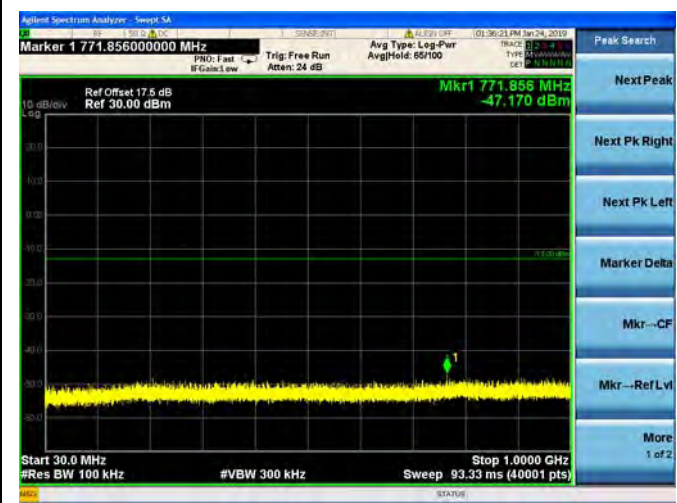


LTE Band 4 5MHz BW Mid Channel

QPSK

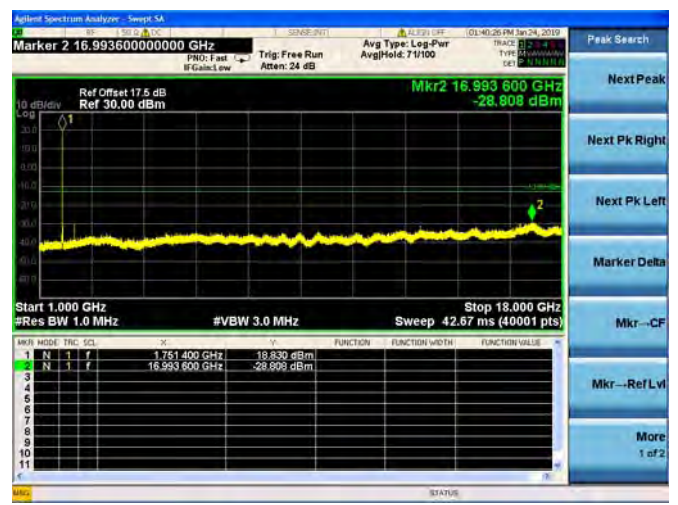
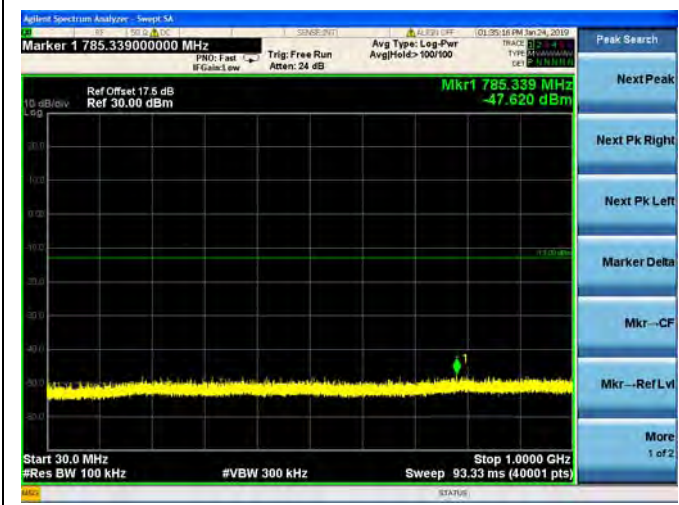


16QAM

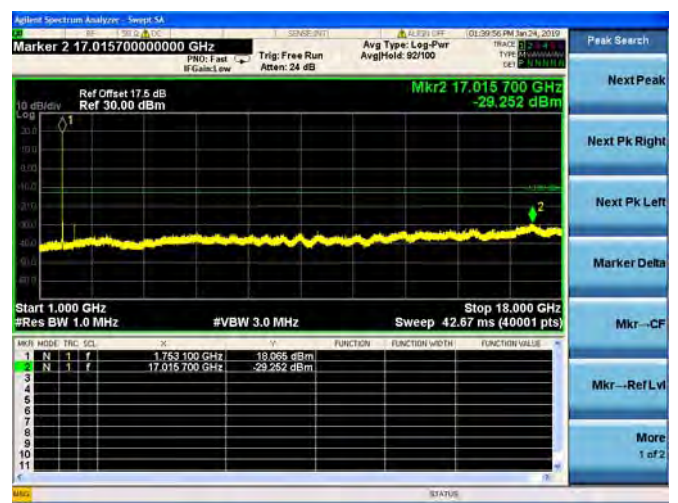
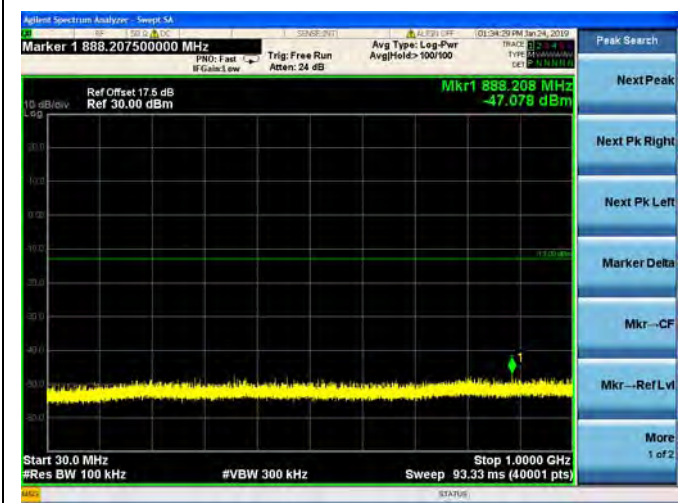




LTE Band 4 5MHz BW High Channel
QPSK



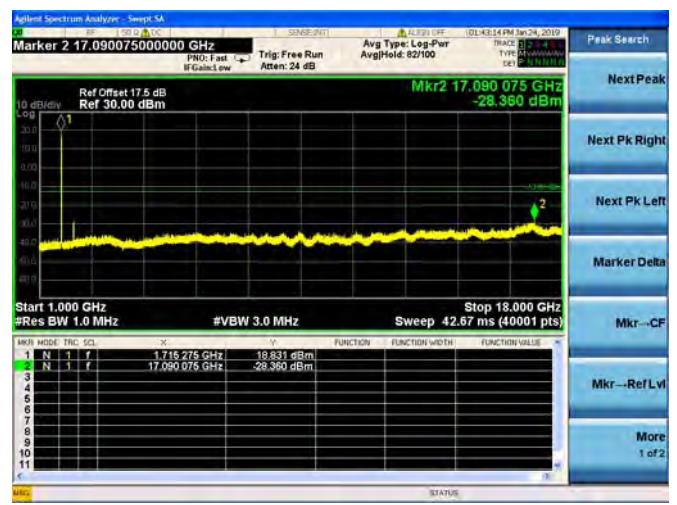
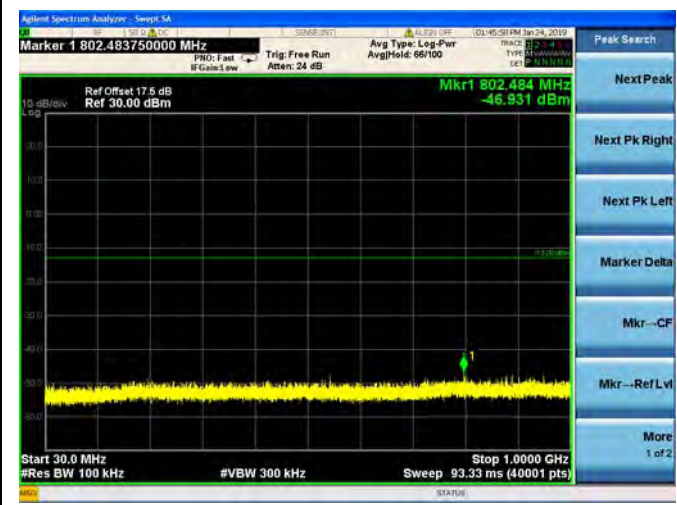
16QAM



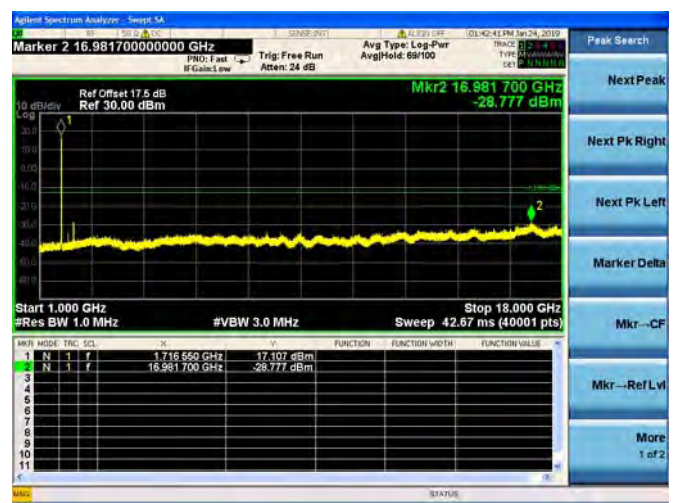
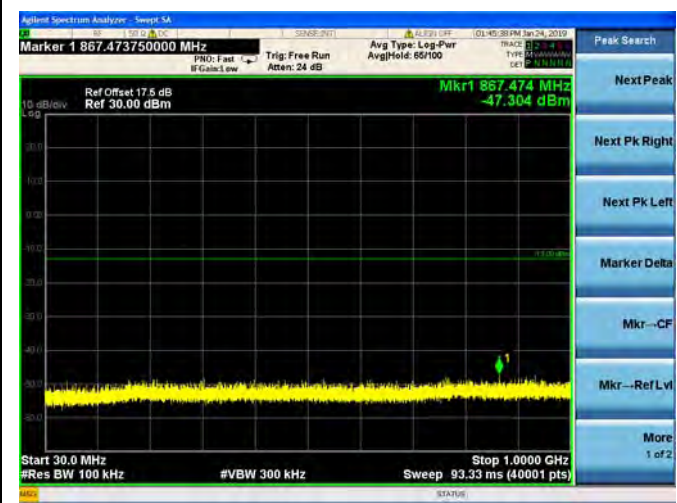


LTE Band 4 10MHz BW Low Channel

QPSK



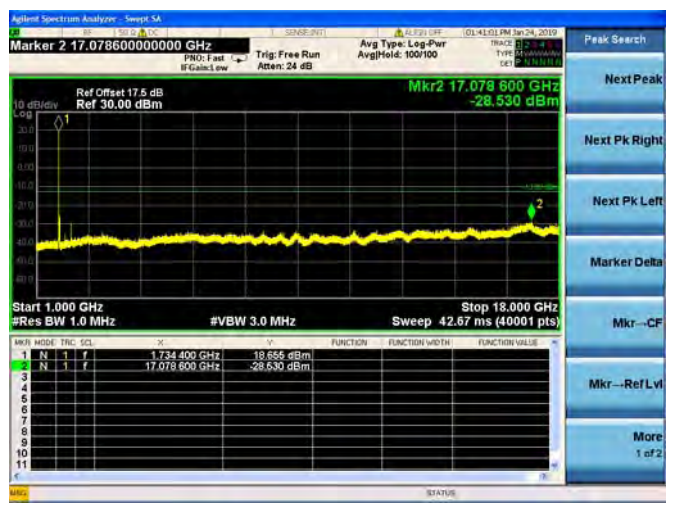
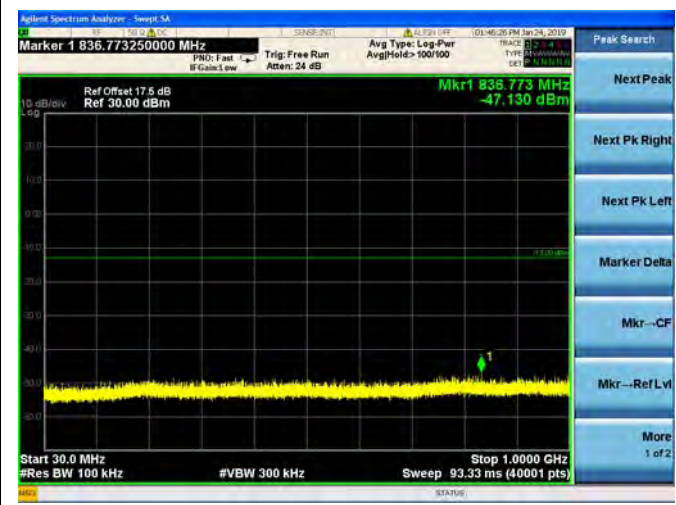
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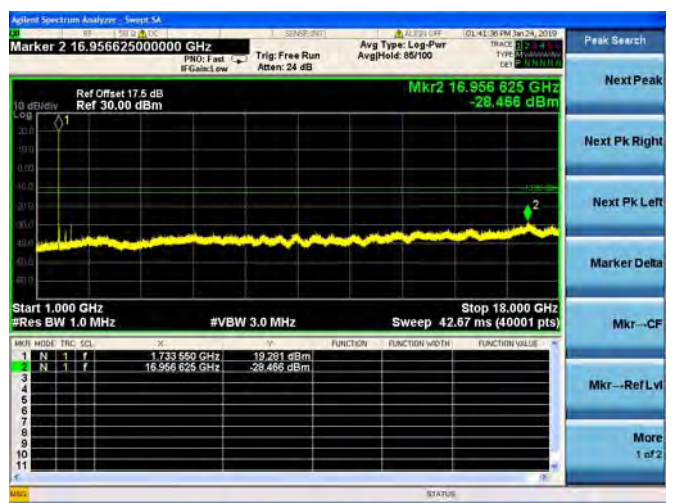
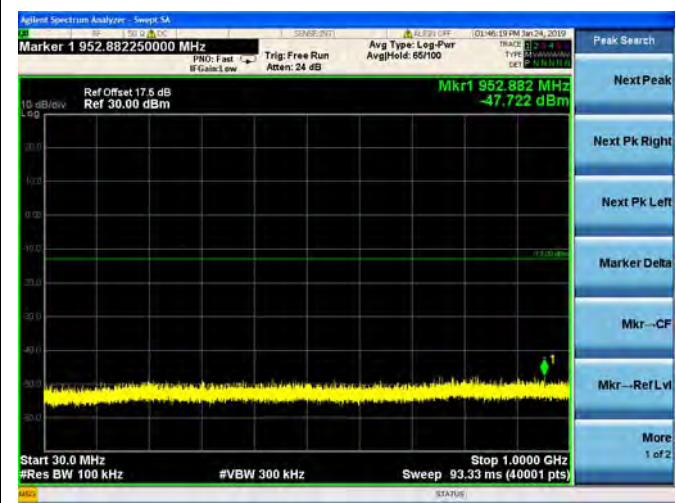


LTE Band 4 10MHz BW Mid Channel

QPSK



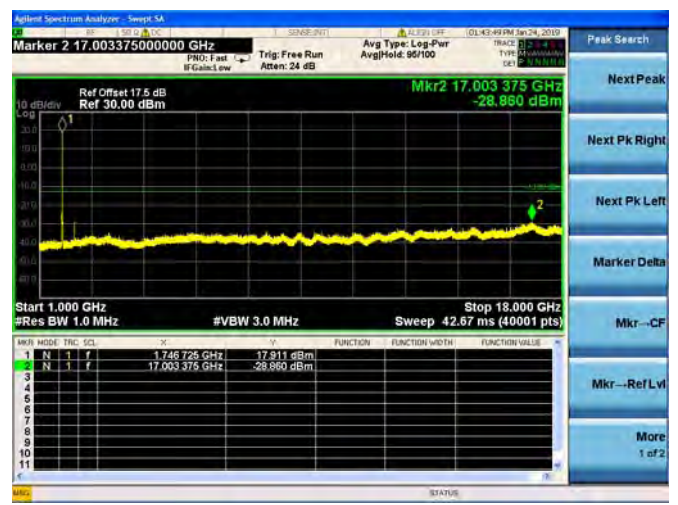
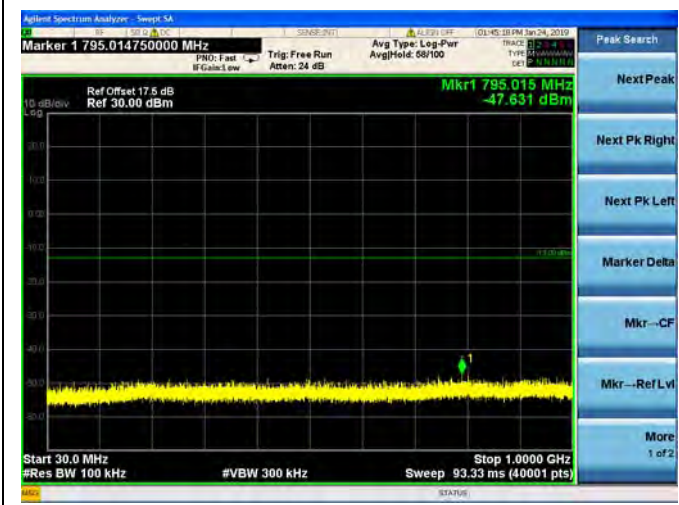
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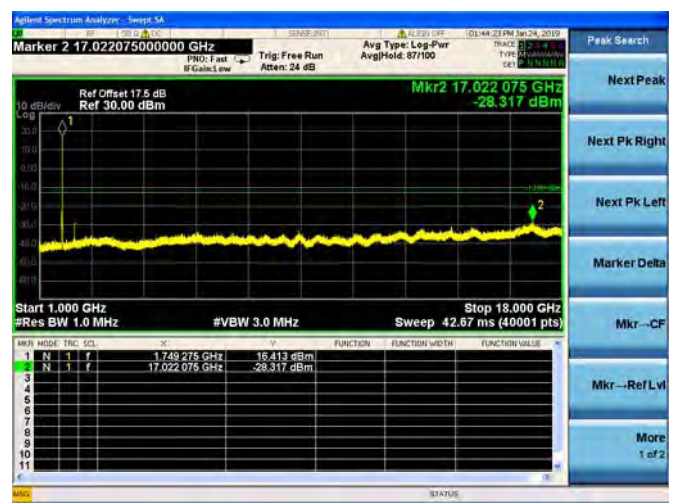
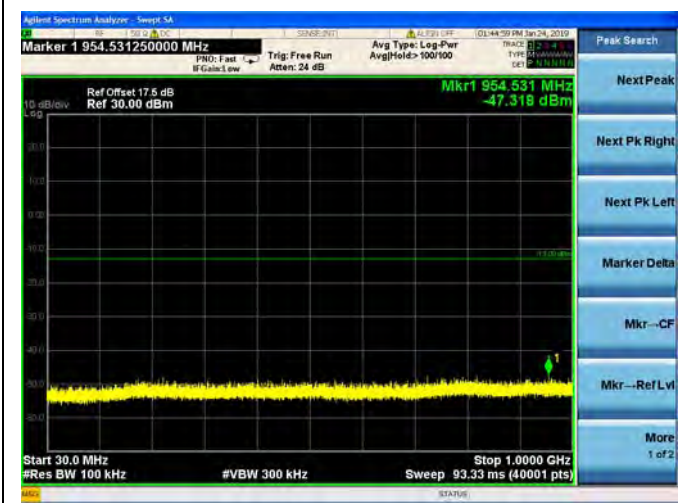


LTE Band 4 10MHz BW High Channel

QPSK



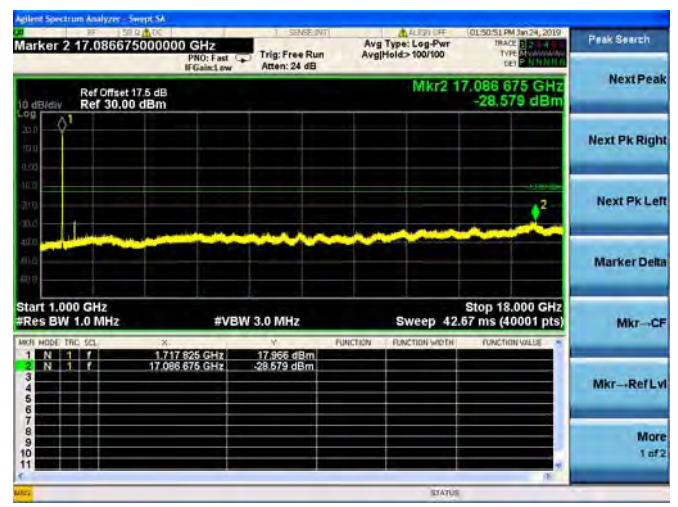
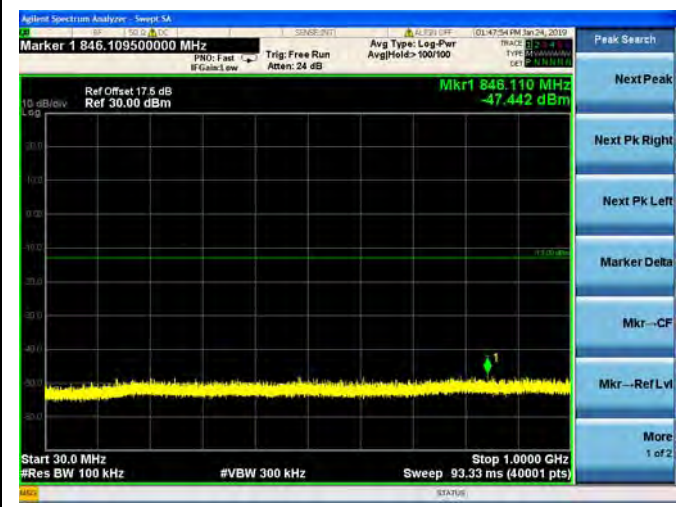
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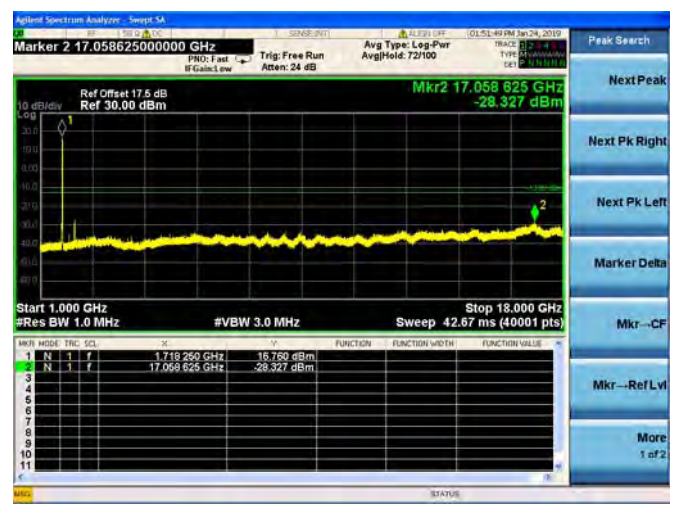
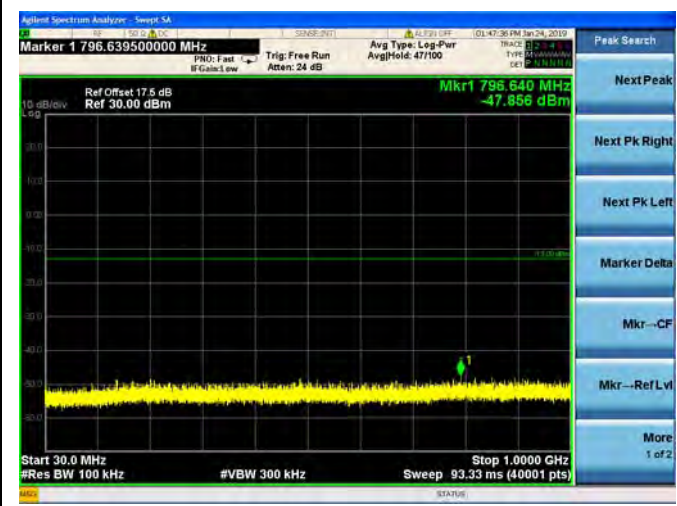


LTE Band 4 15MHz BW Low Channel

QPSK



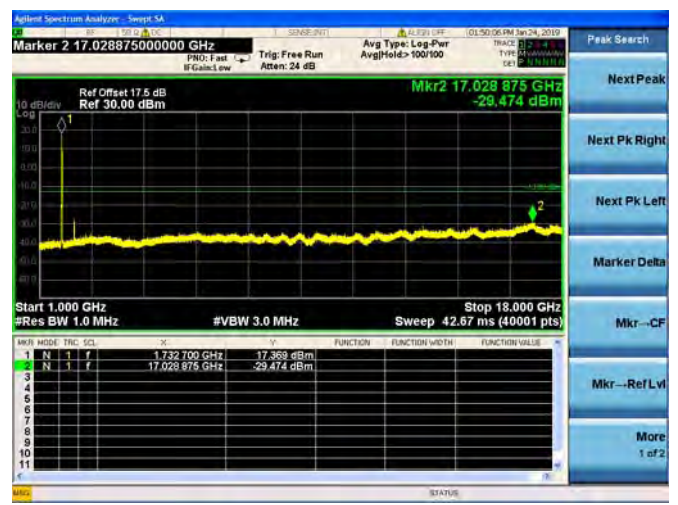
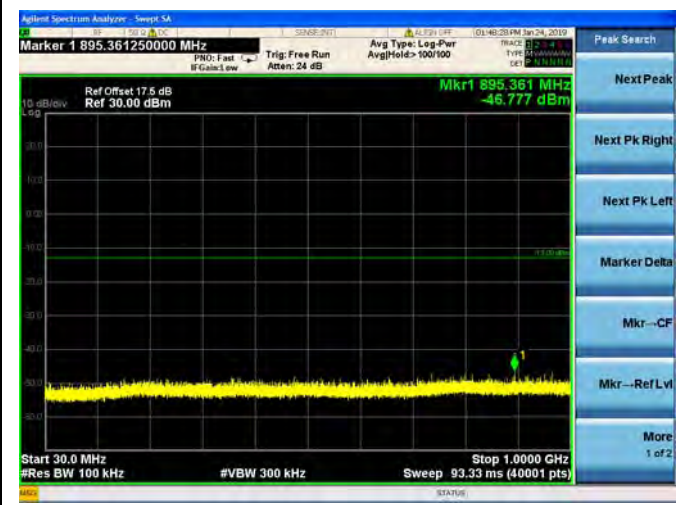
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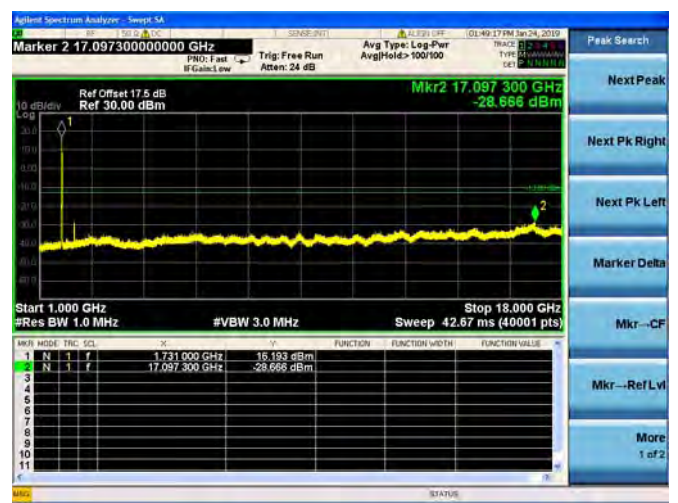
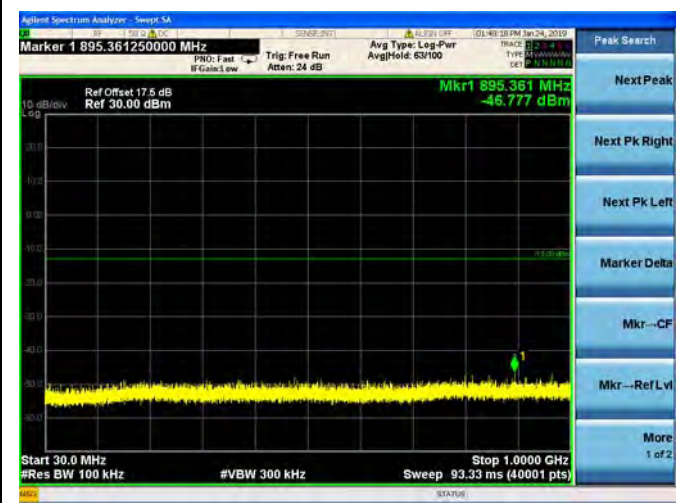


LTE Band 4 15MHz BW Mid Channel

QPSK



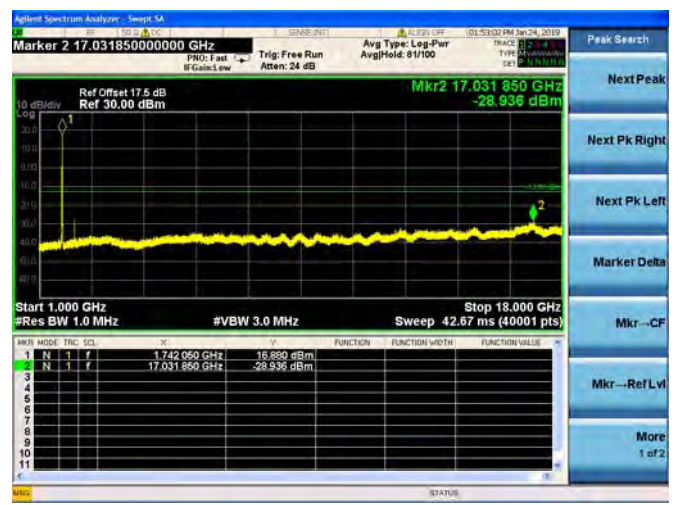
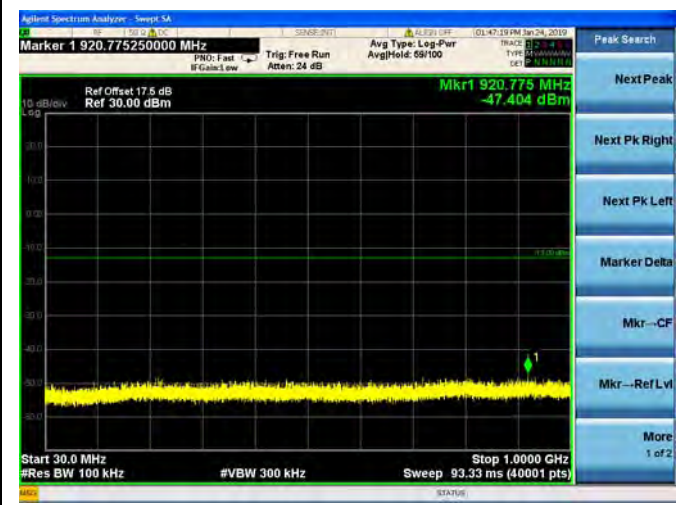
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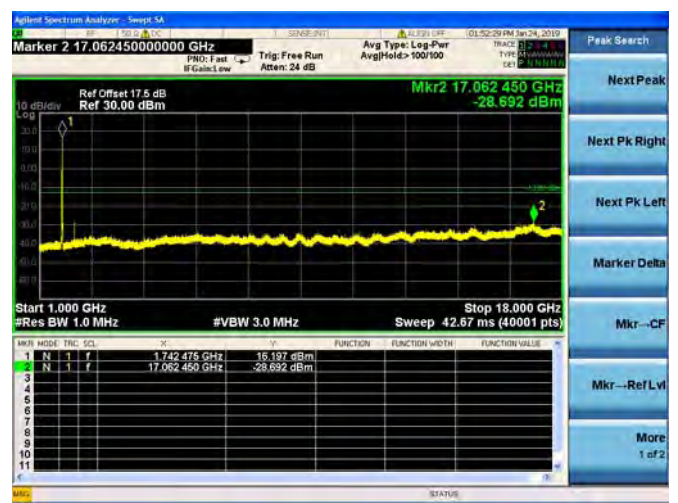
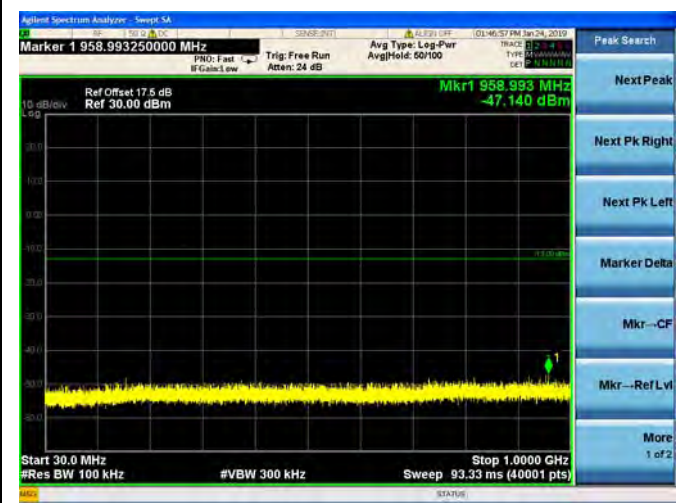


LTE Band 4 15MHz BW High Channel

QPSK



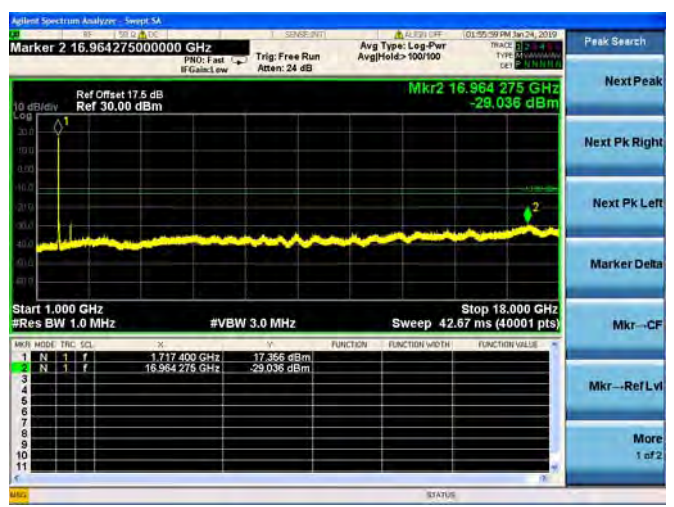
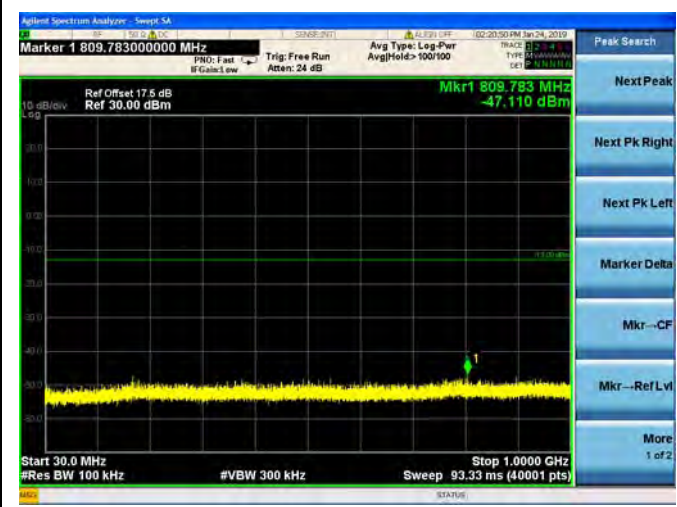
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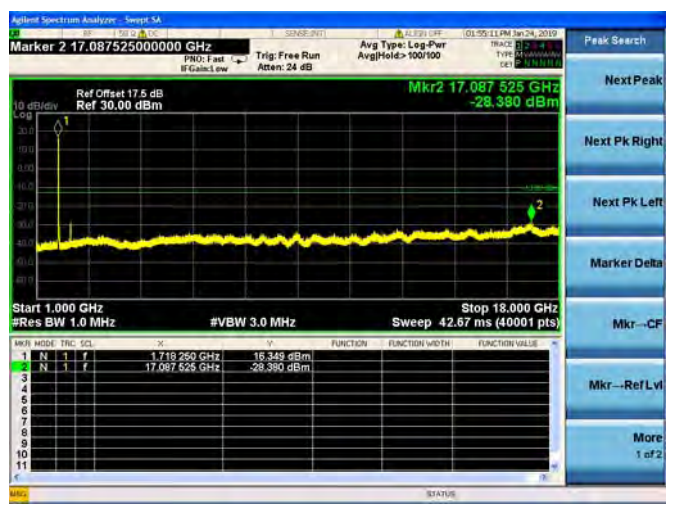
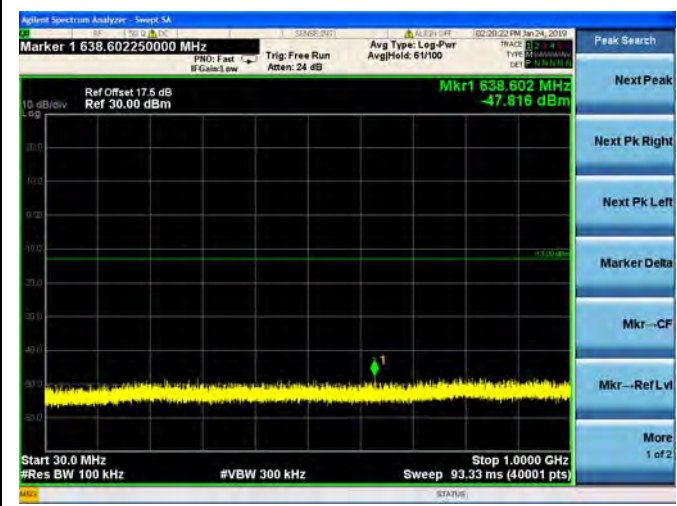


LTE Band 4 20MHz BW Low Channel

QPSK



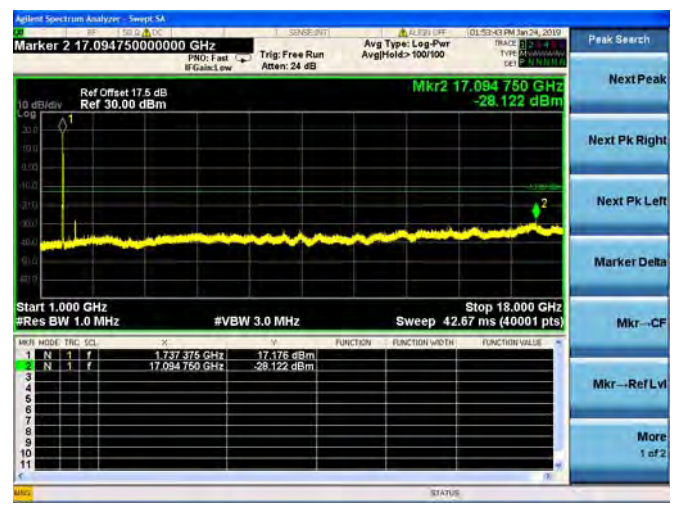
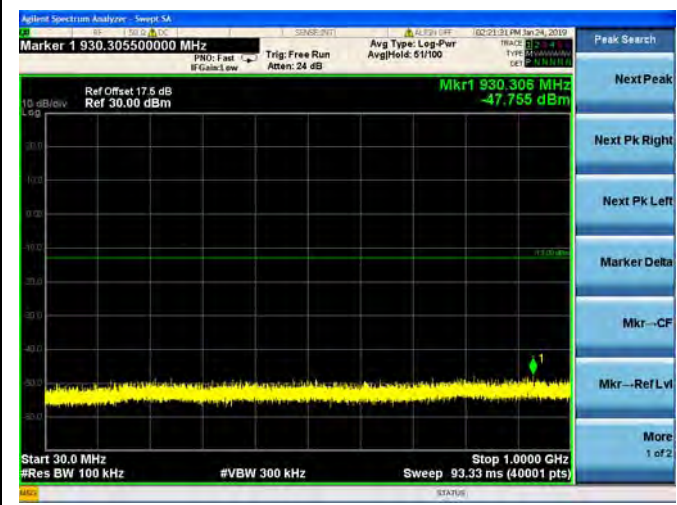
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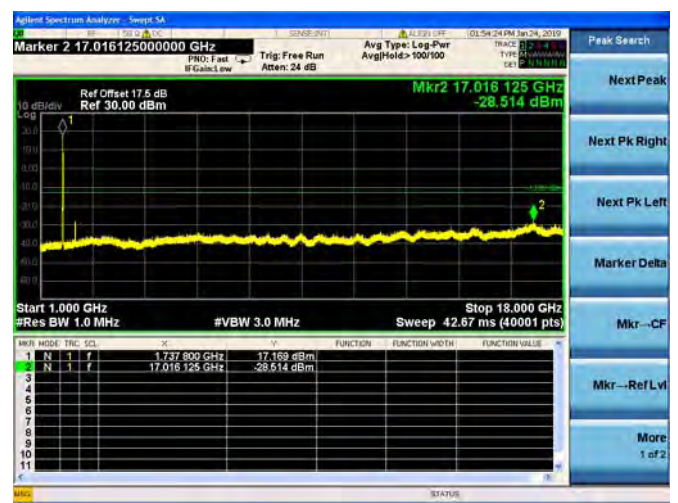
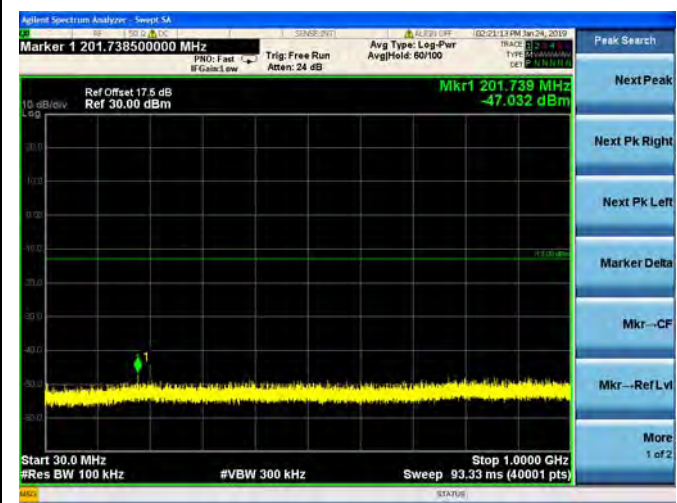


LTE Band 4 20MHz BW Mid Channel

QPSK



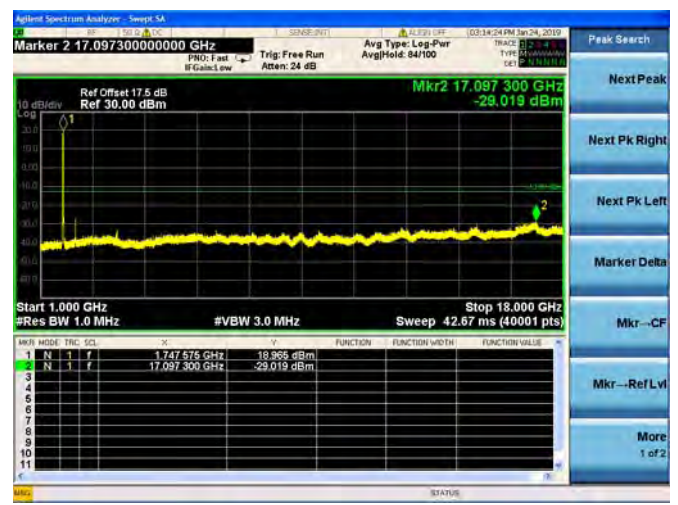
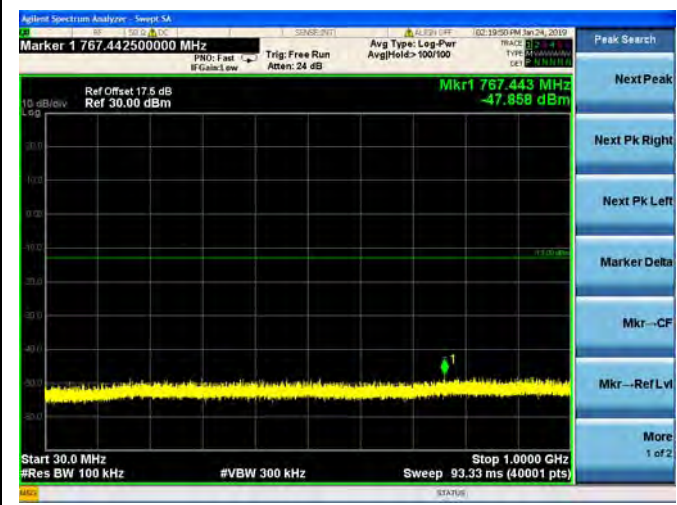
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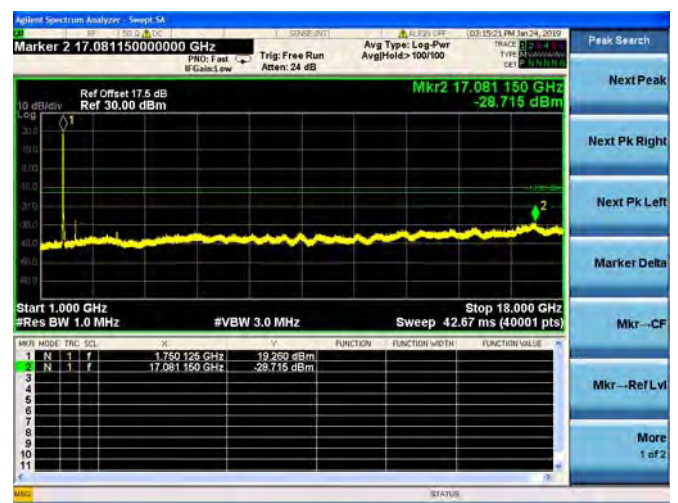
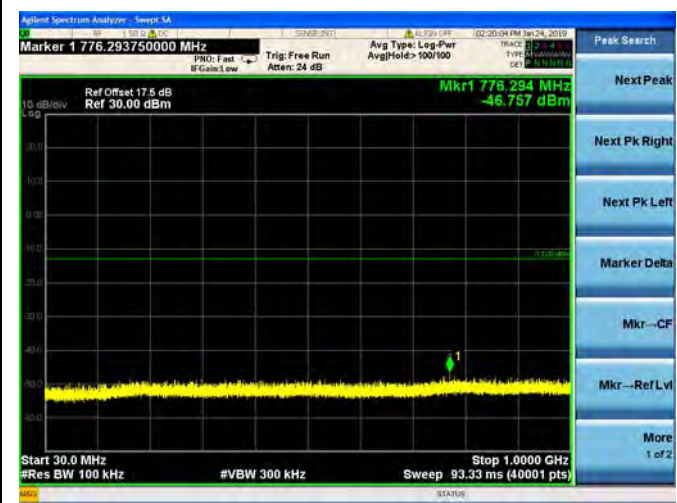


LTE Band 4 20MHz BW High Channel

QPSK



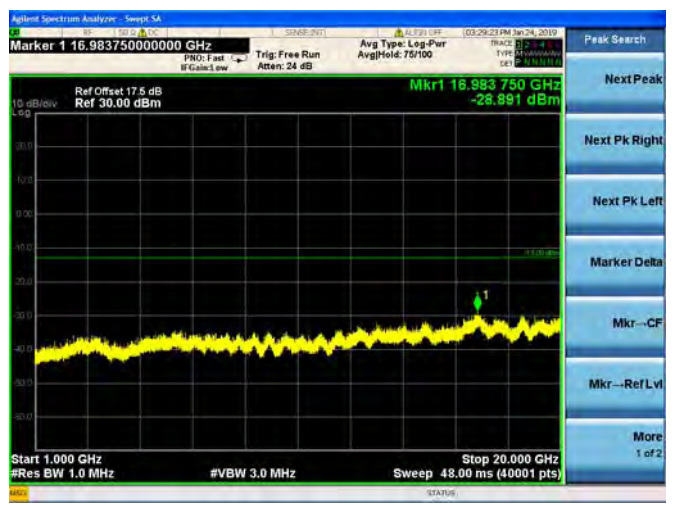
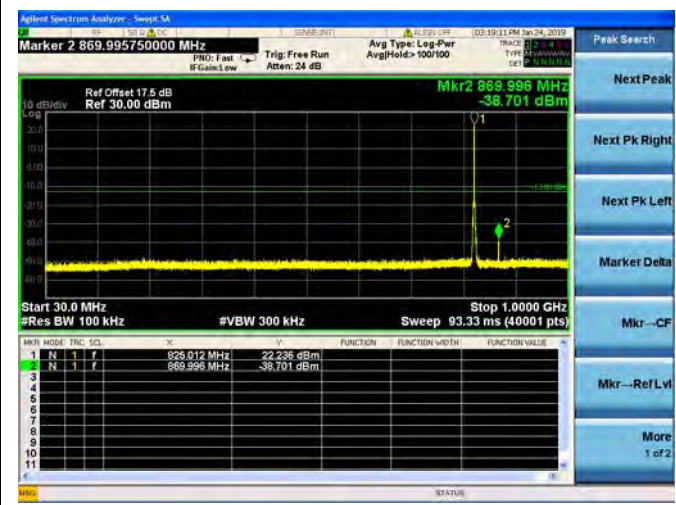
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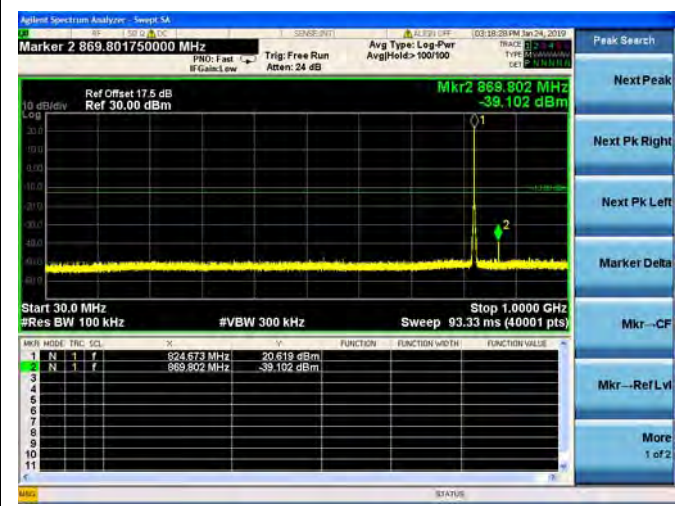


LTE Band 5 1.4MHz BW Low Channel

QPSK



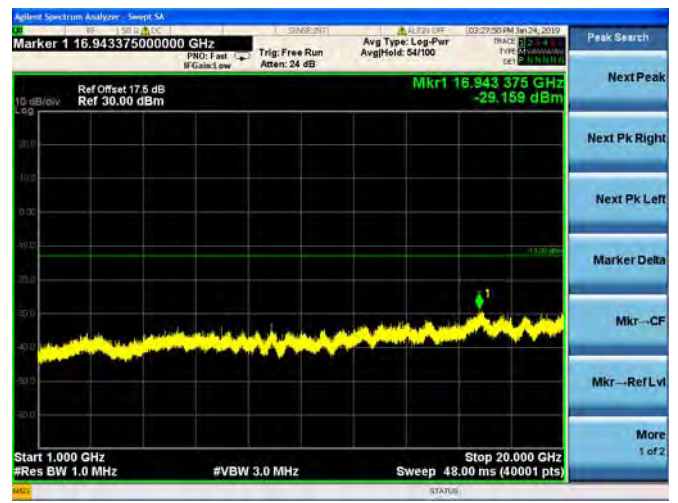
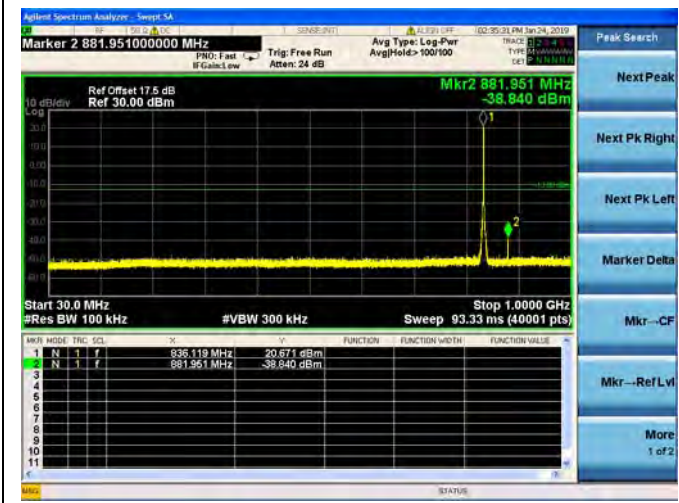
16QAM





LTE Band 5 1.4MHz BW Mid Channel

QPSK



16QAM

