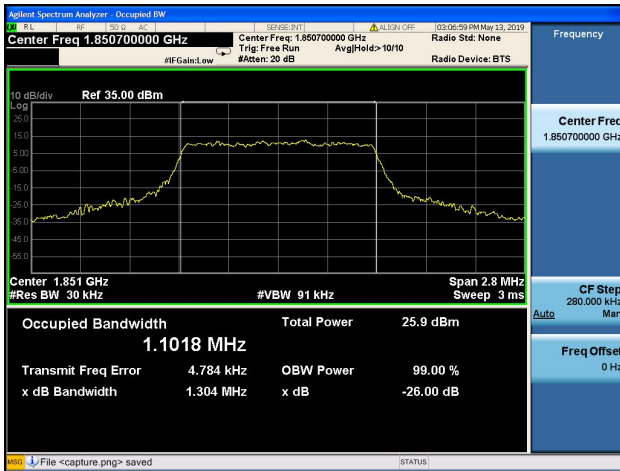




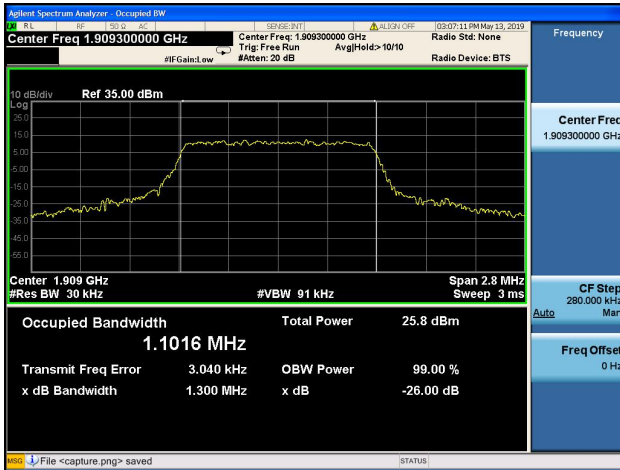
1.4MHz/64QAM/Low CH



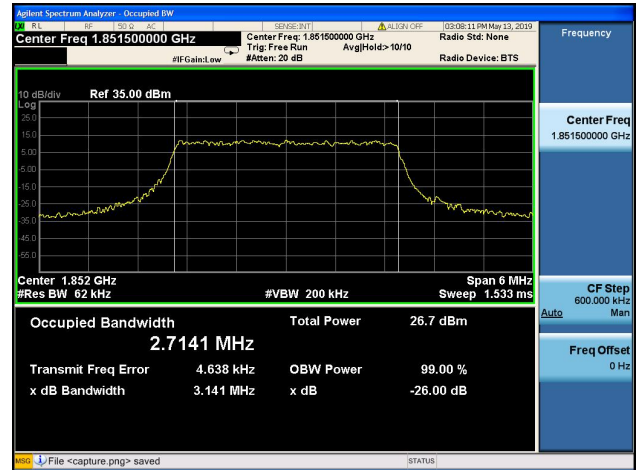
1.4MHz/64QAM/Mid CH



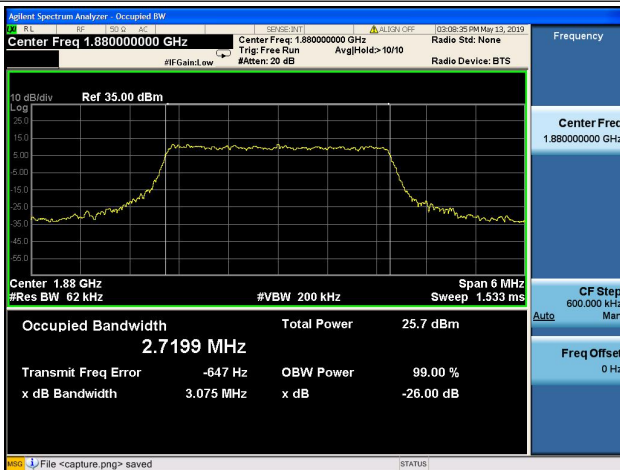
1.4MHz/64QAM/High CH



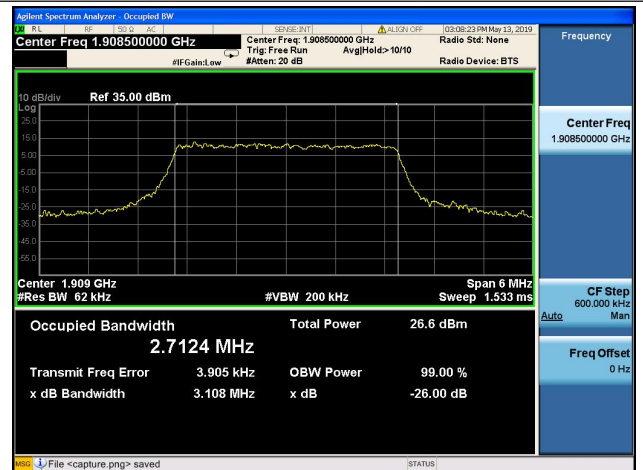
3MHz/64QAM/Low CH



3MHz/64QAM/Mid CH



3MHz/64QAM/High CH





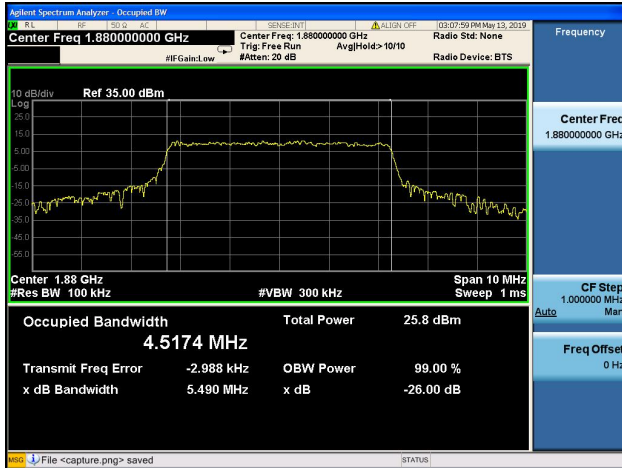
5MHz/64QAM/Low CH



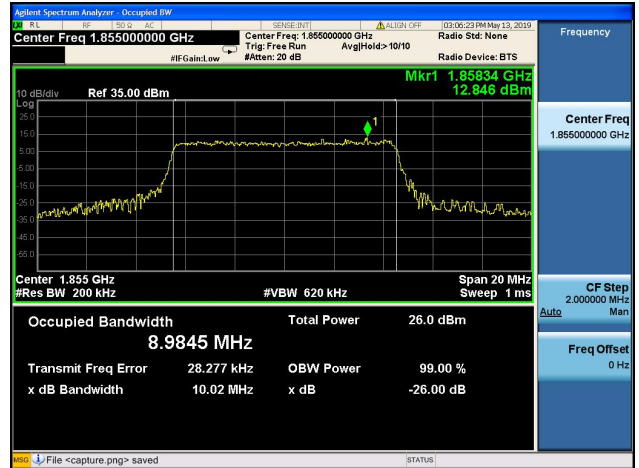
5MHz/64QAM/Mid CH



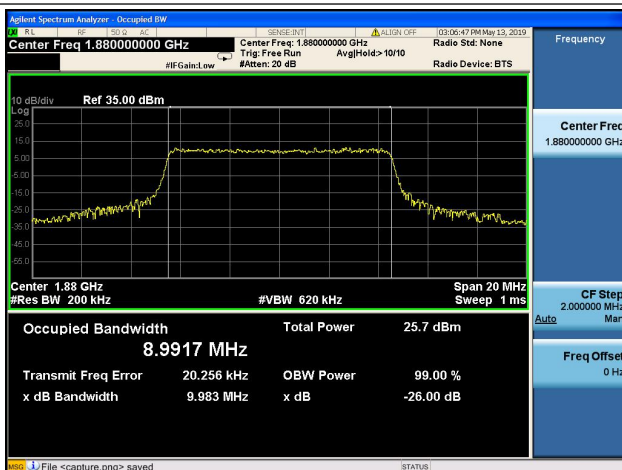
5MHz/64QAM/High CH



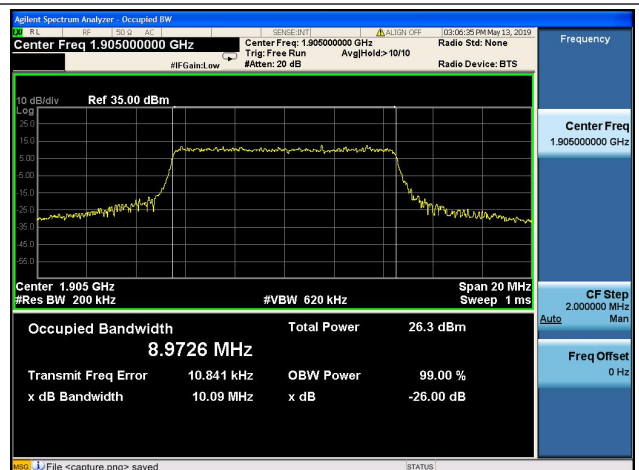
10MHz/64QAM/Low CH

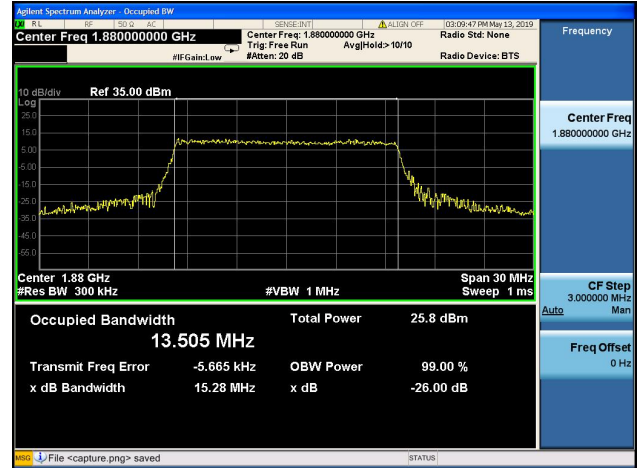
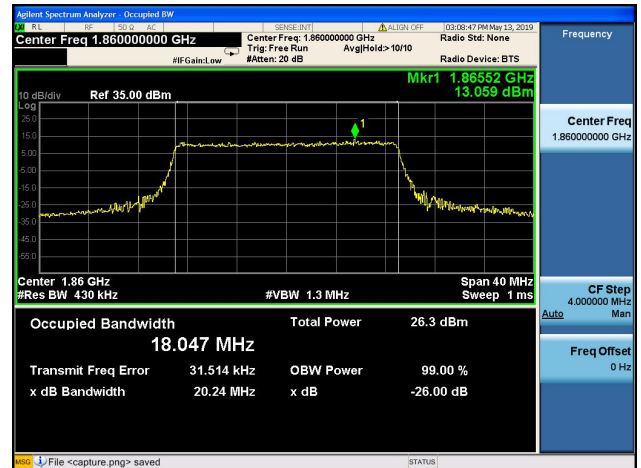
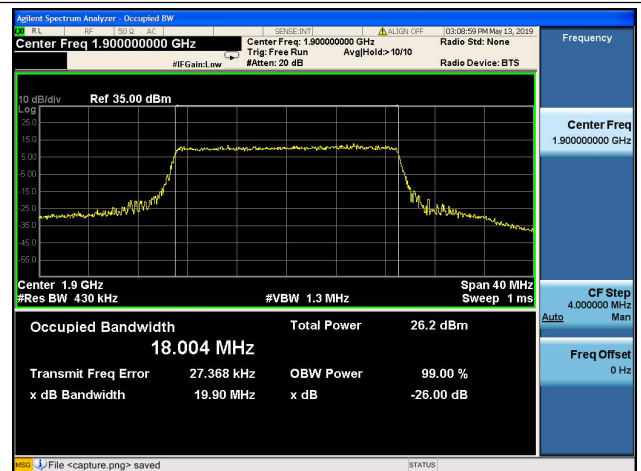


10MHz/64QAM/Mid CH



10MHz/64QAM/High CH



**15MHz/64QAM/Low CH****15MHz/64QAM/Mid CH****15MHz/64QAM/High CH****20MHz/64QAM/Low CH****20MHz/64QAM/Mid CH****20MHz/64QAM/High CH**



LTE Band 4,BW: 1.4MHz					
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
19957	1710.7	1.10	1.30	1.10	1.31
20175	1732.5	1.10	1.30	1.10	1.30
20392	1754.2	1.10	1.27	1.10	1.30
LTE Band 4,BW: 3MHz					
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
19965	1711.5	2.72	3.04	2.72	3.11
20175	1732.5	2.72	3.04	2.71	3.14
20384	1753.4	2.72	3.07	2.72	3.15
LTE Band 4,BW: 5MHz					
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
19975	1712.5	4.51	5.44	4.51	5.42
20175	1732.5	4.52	5.39	4.51	5.41
20375	1752.5	4.51	5.55	4.51	5.31
LTE Band 4,BW: 10MHz					
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
20000	1715.0	9.04	10.13	8.98	10.05
20175	1732.5	9.03	10.20	8.98	10.09
20350	1750.0	9.03	10.13	8.98	9.87
LTE Band 4,BW: 15MHz					
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
20025	1717.5	13.47	15.40	13.48	15.17
20175	1732.5	13.50	15.30	13.51	15.20
20325	1747.5	13.51	15.41	13.50	15.36

**LTE Band 4,BW: 20MHz**

Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
20050	1720.0	17.98	20.24	18.03	19.90
20175	1732.5	18.05	20.42	18.07	20.25
20300	1745.0	18.01	20.10	18.03	20.14

LTE Band 4,BW: 1.4MHz

Channel	Frequency (MHz)	64QAM			
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
19957	1710.7	1.10	1.29		
20175	1732.5	1.10	1.30		
20392	1754.2	1.10	1.31		

LTE Band 4,BW: 3MHz

Channel	Frequency (MHz)	64QAM			
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
19965	1711.5	2.72	3.10		
20175	1732.5	2.72	3.14		
20384	1753.4	2.71	3.12		

LTE Band 4,BW: 5MHz

Channel	Frequency (MHz)	64QAM			
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
19975	1712.5	4.51	5.29		
20175	1732.5	4.52	5.25		
20375	1752.5	4.52	5.51		

LTE Band 4,BW: 10MHz

Channel	Frequency (MHz)	64QAM			
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
20000	1715.0	8.98	10.08		
20175	1732.5	8.98	10.14		
20350	1750.0	8.98	10.05		

LTE Band 4,BW: 15MHz

Channel	Frequency	64QAM			
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	(MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
20025	1717.5	13.50	15.36		
20175	1732.5	13.52	15.50		
20325	1747.5	13.49	15.39		

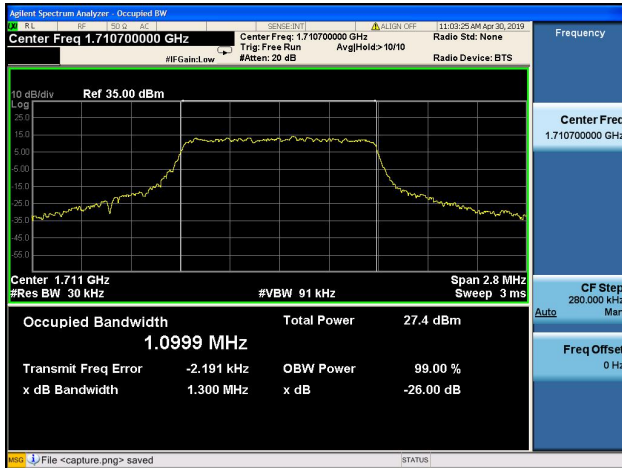
LTE Band 4,BW: 20MHz

Channel	Frequency (MHz)	64QAM			
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
20050	1720.0	18.02	19.95		
20175	1732.5	18.08	20.48		
20300	1745.0	18.07	20.37		

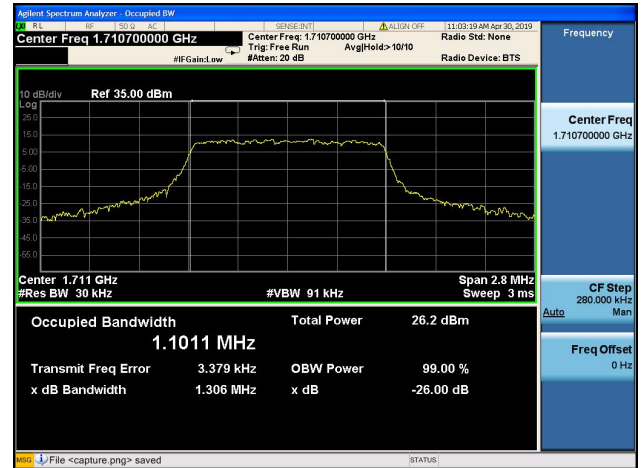


LTE Band 4 99%&26dB Bandwidth

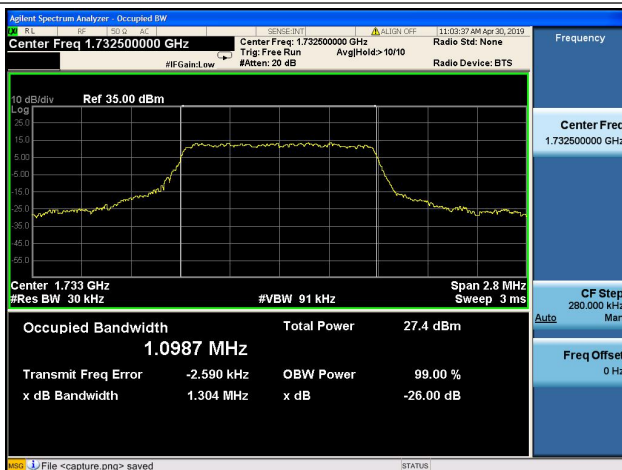
1.4MHz/QPSK/Low CH



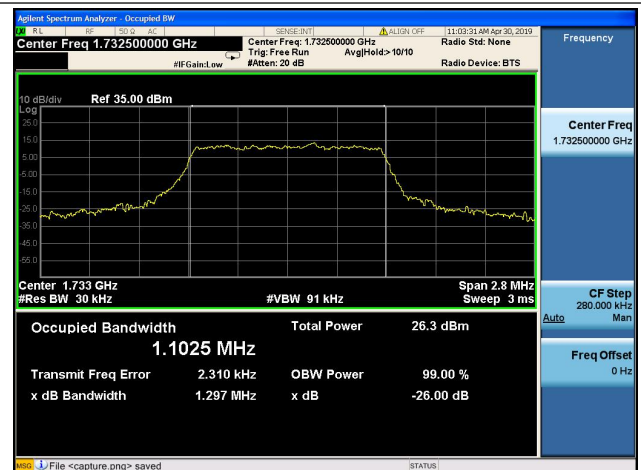
1.4MHz/16QAM/Low CH



1.4MHz/QPSK/Mid CH



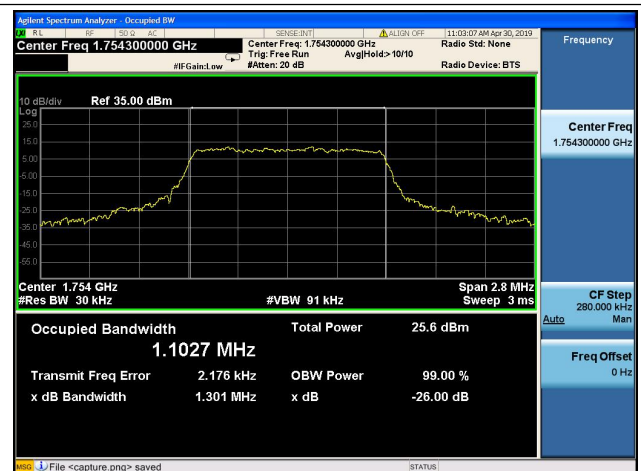
1.4MHz/16QAM/Mid CH



1.4MHz/QPSK/High CH



1.4MHz/16QAM/High CH

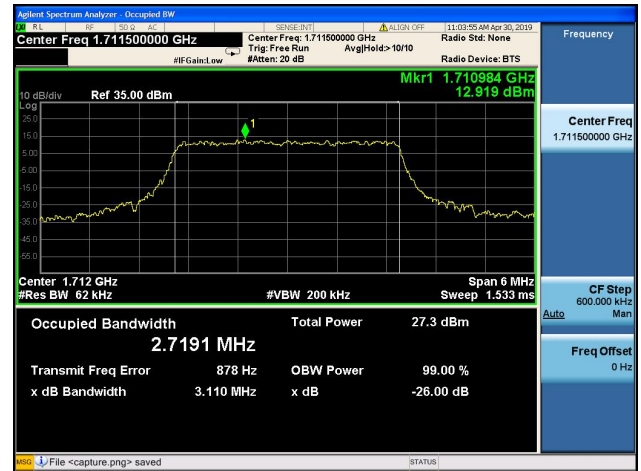




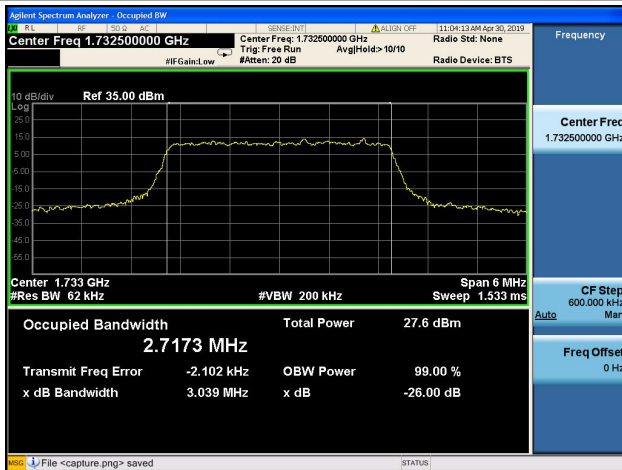
3MHz/QPSK/Low CH



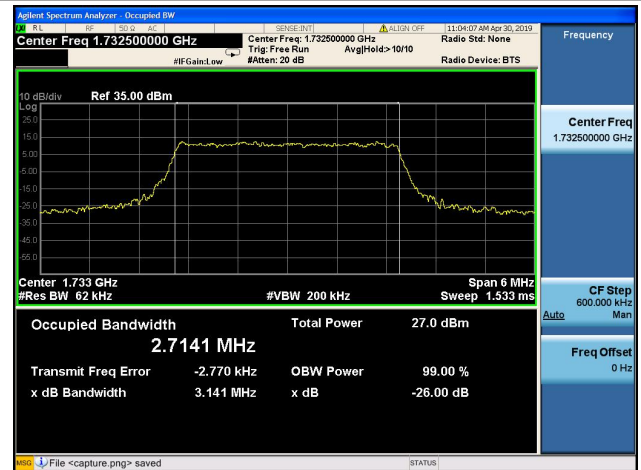
3MHz/16QAM/Low CH



3MHz/QPSK/Mid CH



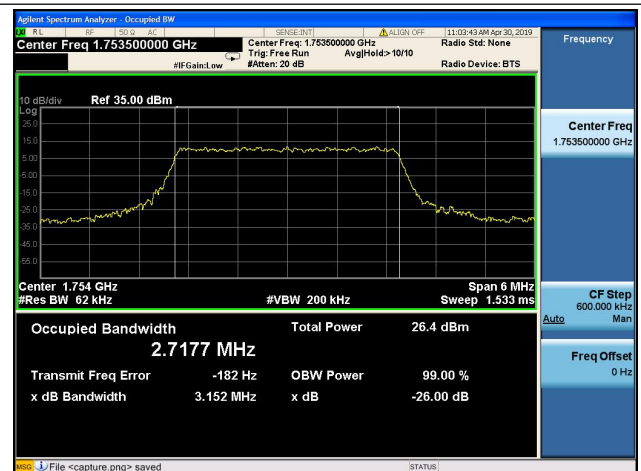
3MHz/16QAM/Mid CH

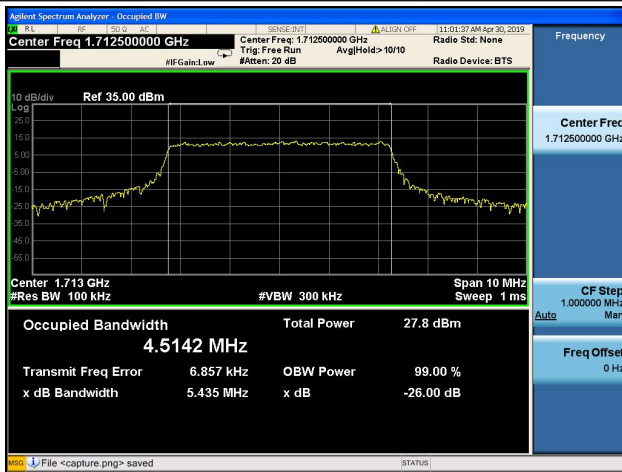
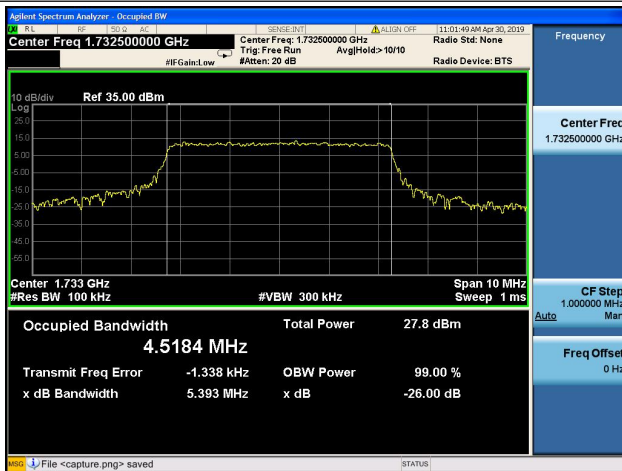
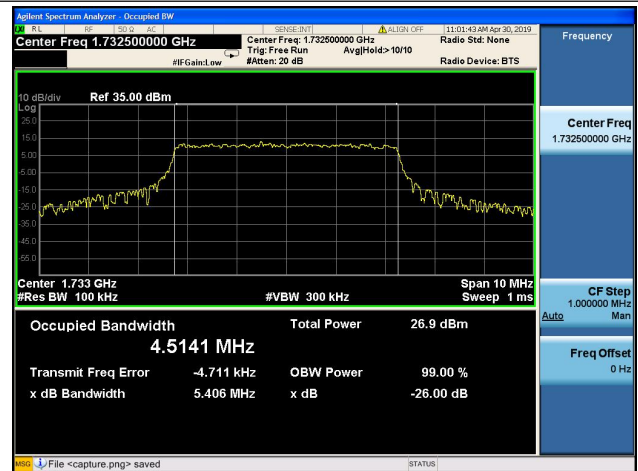


3MHz/QPSK/High CH



3MHz/16QAM/High CH



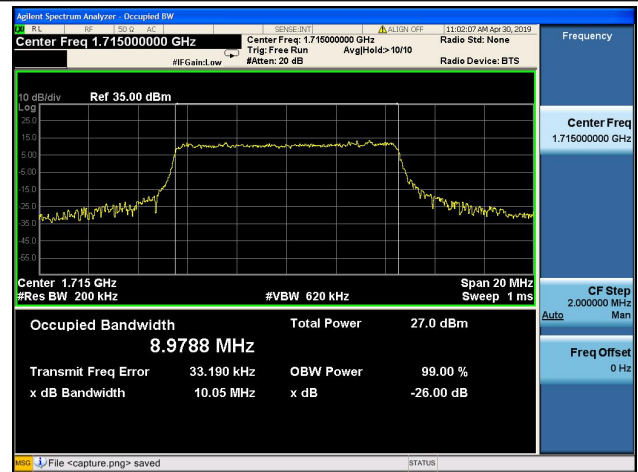
**5MHz/QPSK/Low CH****5MHz/16QAM/Low CH****5MHz/QPSK/Mid CH****5MHz/16QAM/Mid CH****5MHz/QPSK/High CH****5MHz/16QAM/High CH**



10MHz/QPSK/Low CH



10MHz/16QAM/Low CH



10MHz/QPSK/Mid CH



10MHz/16QAM/Mid CH



10MHz/QPSK/High CH



10MHz/16QAM/High CH

