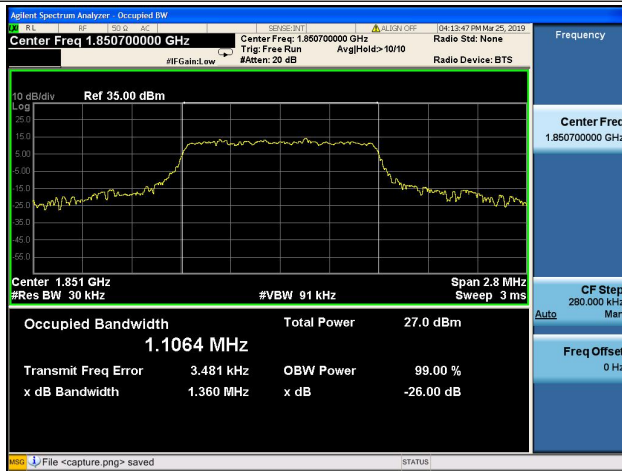
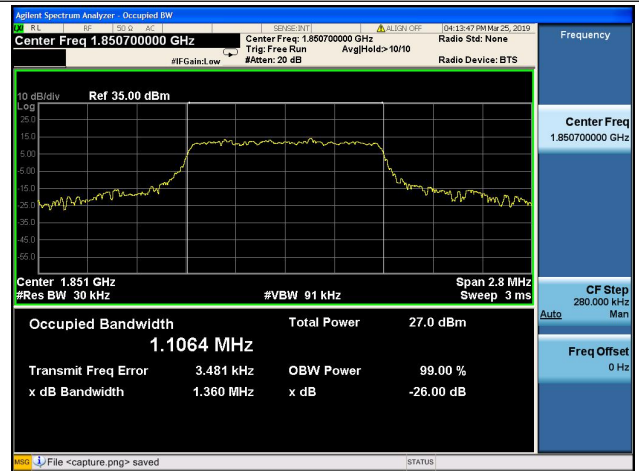




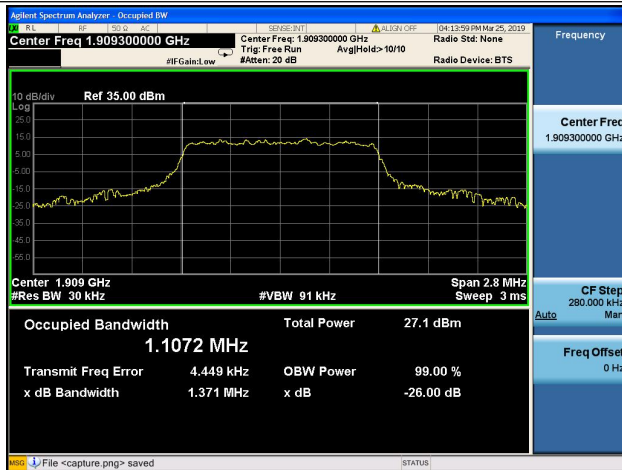
1.4MHz/64QAM/Low CH



1.4MHz/64QAM/Mid CH



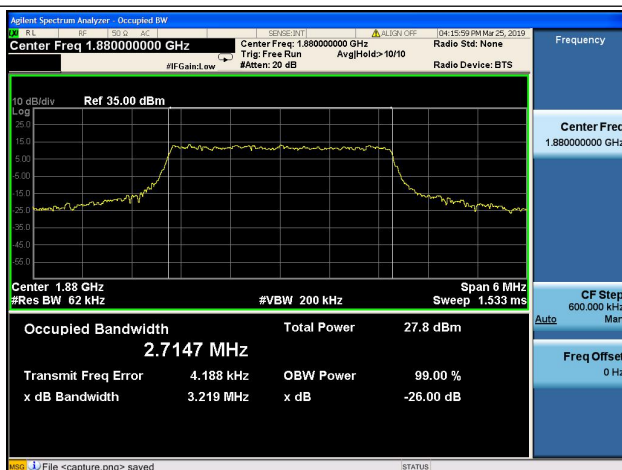
1.4MHz/64QAM/High CH



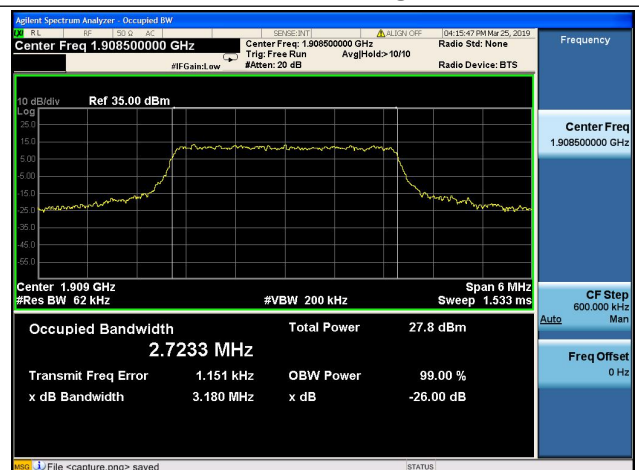
3MHz/64QAM/Low CH



3MHz/64QAM/Mid CH



3MHz/64QAM/High CH





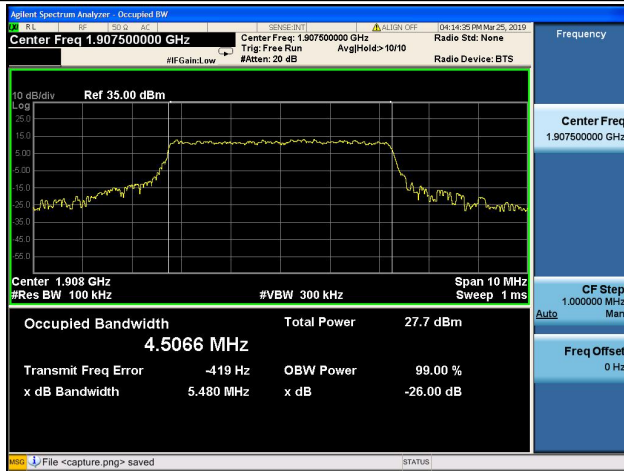
5MHz/64QAM/Low CH



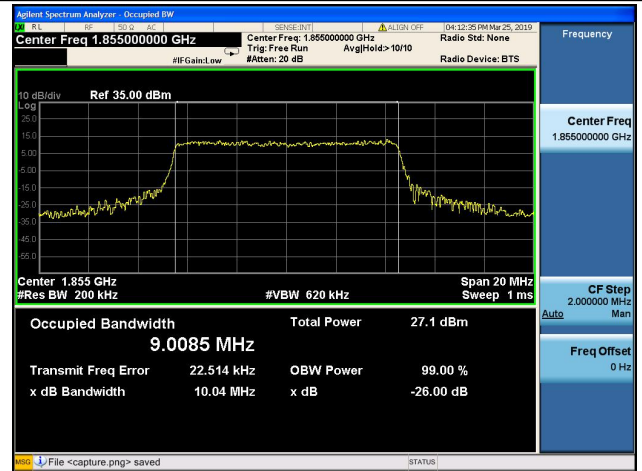
5MHz/64QAM/Mid CH



5MHz/64QAM/High CH



10MHz/64QAM/Low CH



10MHz/64QAM/Mid CH

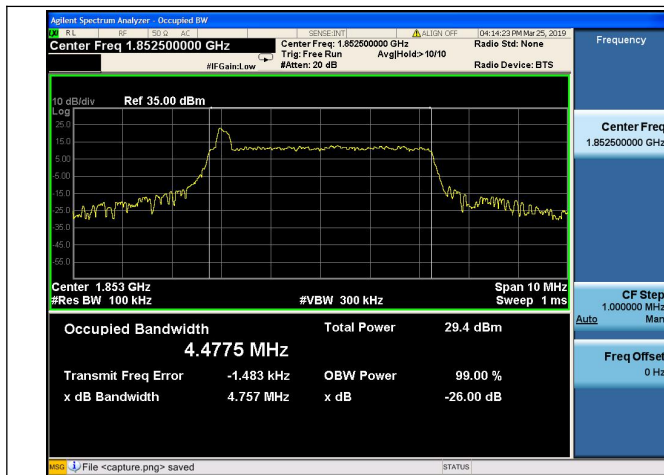


10MHz/64QAM/High CH



5MHz/64QAM/Low CH

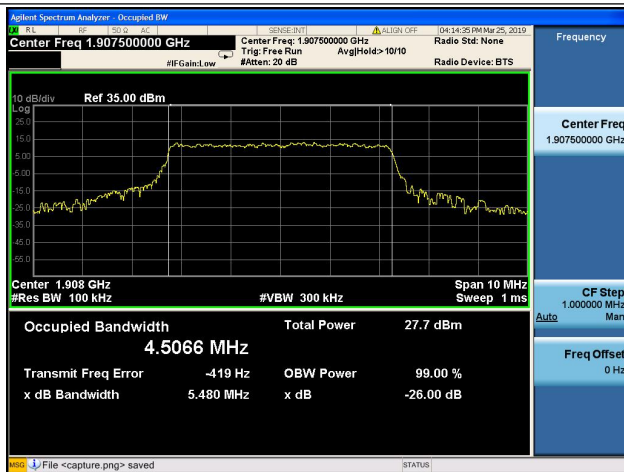
5MHz/64QAM/Mid CH



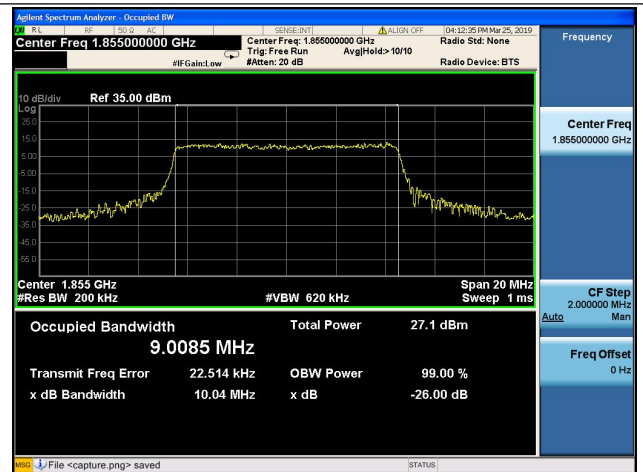
5MHz/64QAM/High CH



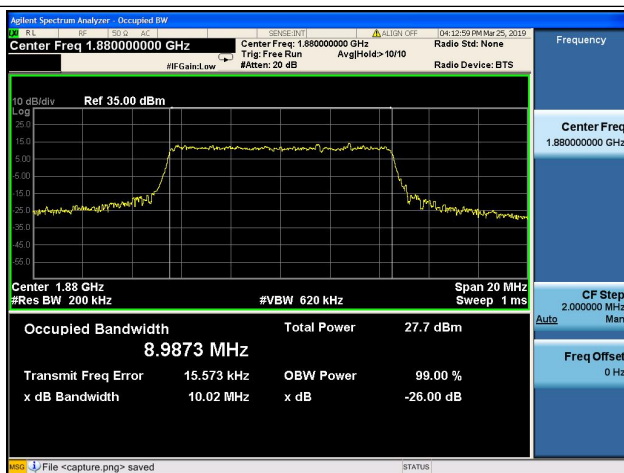
10MHz/64QAM/Low CH



10MHz/64QAM/Mid CH



10MHz/64QAM/High CH



15MHz/64QAM/Low CH



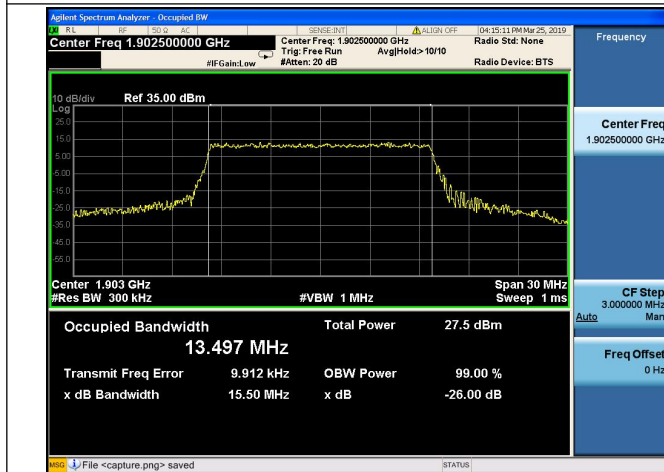
15MHz/64QAM/Mid CH



15MHz/64QAM/High CH



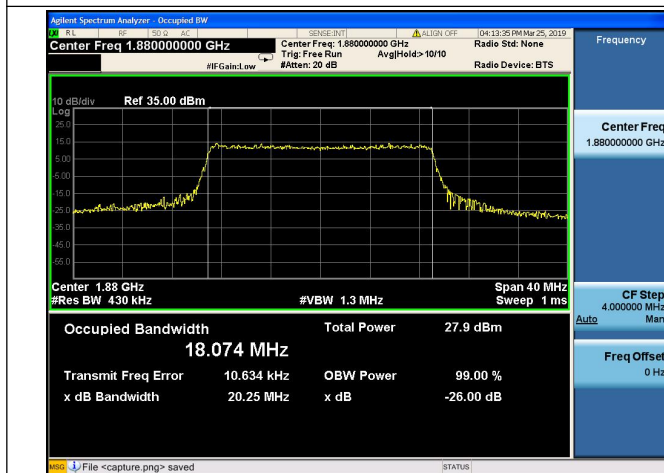
20MHz/64QAM/Low CH



20MHz/64QAM/Mid CH



20MHz/64QAM/High CH



LTE Band 4, BW: 1.4MHz

Channel	Frequency	QPSK	16QAM
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		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
19957	1710.7	1.1	1.35	1.11	1.34
20175	1732.5	1.11	1.38	1.11	1.38
20392	1754.2	1.1	1.31	1.11	1.35

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	3.14	2.73	3.24
20175	1732.5	2.72	3.21	2.72	3.23
20384	1753.4	2.72	3.24	2.72	3.2

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	5.4
20175	1732.5	4.51	5.26	4.52	5.44
20375	1752.5	4.51	5.3	4.52	5.42

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	9.02	10.24	8.99	9.99
20175	1732.5	9.02	10.98	8.99	9.96
20350	1750.0	9.04	10.22	8.99	10.14

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	13.51	15.47	13.49	14.95
20175	1732.5	13.5	15.32	13.51	15.55
20325	1747.5	13.46	15.17	13.51	15.29

LTE Band 4, BW: 20MHz

Channel	Frequency	QPSK	16QAM
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		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
20050	1720.0	18.0	20.41	18.04	20.1
20175	1732.5	18.01	20.0	18.07	20.45
20300	1745.0	18.02	20.41	18.06	20.1

LTE Band 4, BW: 1.4MHz

Channel	Frequency (MHz)	64QAM			
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
19957	1710.7	1.11	1.35		
20175	1732.5	1.11	1.37		
20392	1754.2	1.11	1.35		

LTE Band 4, BW: 3MHz

Channel	Frequency (MHz)	64QAM			
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
19965	1711.5	2.72	3.25		
20175	1732.5	2.73	3.25		
20384	1753.4	2.72	3.22		

LTE Band 4, BW: 5MHz

Channel	Frequency (MHz)	64QAM			
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
19975	1712.5	4.51	5.31		
20175	1732.5	4.52	5.33		
20375	1752.5	4.52	5.43		

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	8.93	9.44		
20350	1750.0	8.98	10.09		

LTE Band 4, BW: 15MHz

Channel	Frequency (MHz)	64QAM			
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		



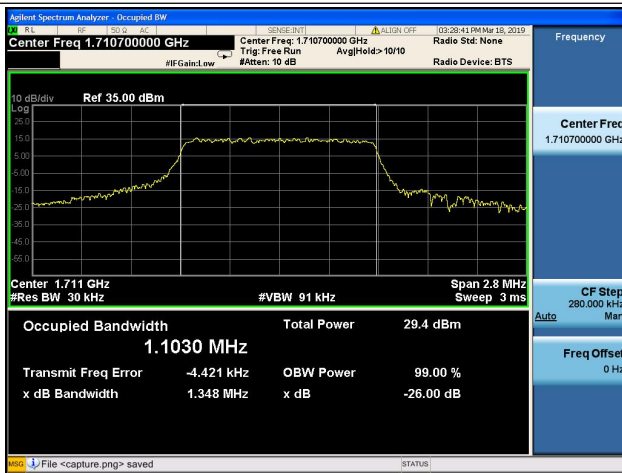
20025	1717.5	13.5	15.36		
20175	1732.5	13.52	15.5		
20325	1747.5	13.49	15.39		

LTE Band 4, BW: 20MHz

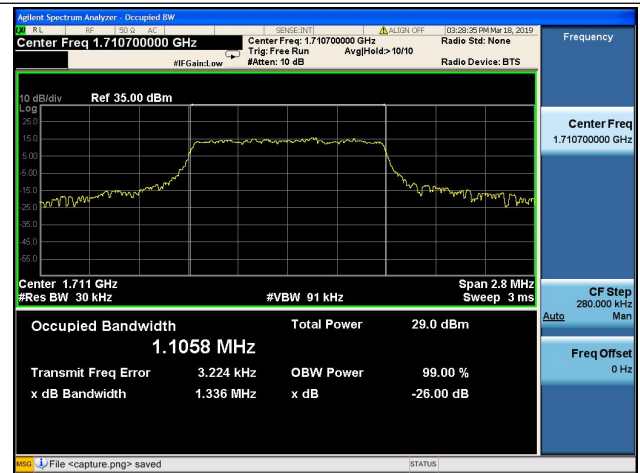
Channel	Frequency (MHz)	64QAM			
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
20050	1720.0	18.03	20.07		
20175	1732.5	18.04	20.13		
20300	1745.0	18.04	19.91		

LTE Band 4 99%&26dB Bandwidth

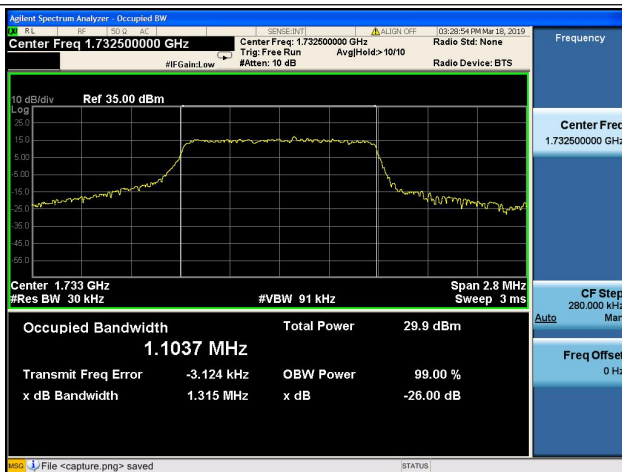
1.4MHz/QPSK/Low CH



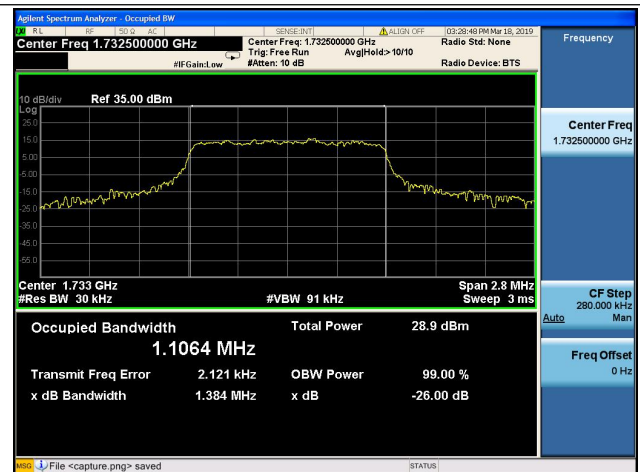
1.4MHz/16QAM/Low CH

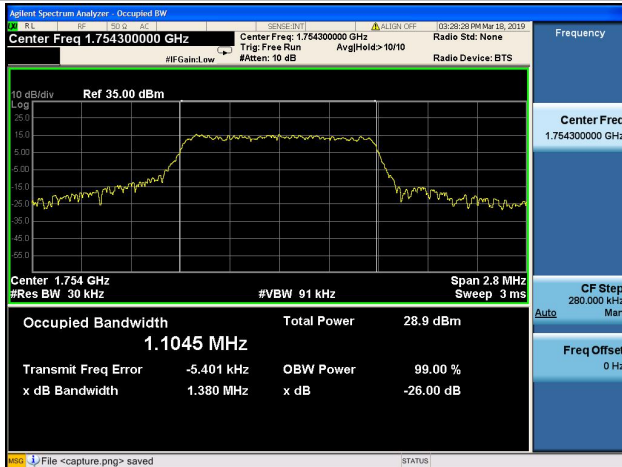
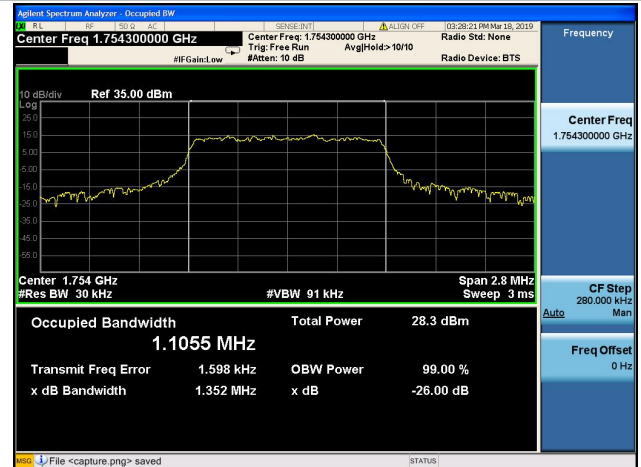
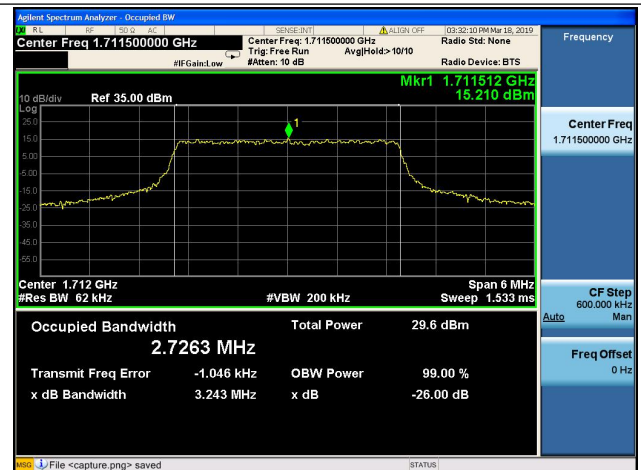
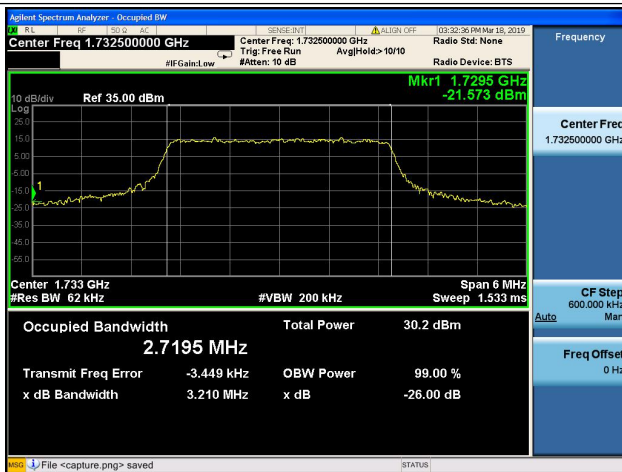
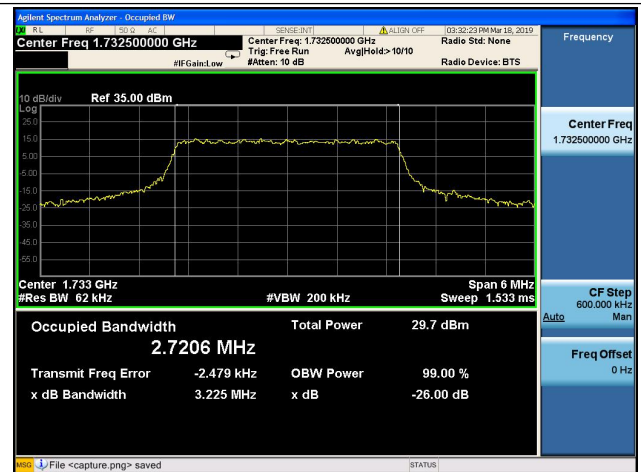


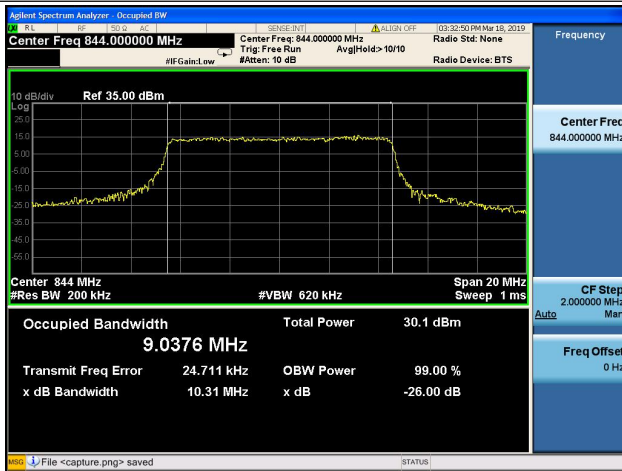
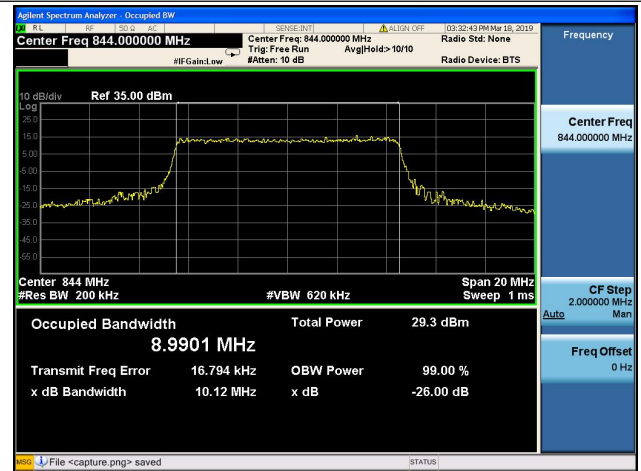
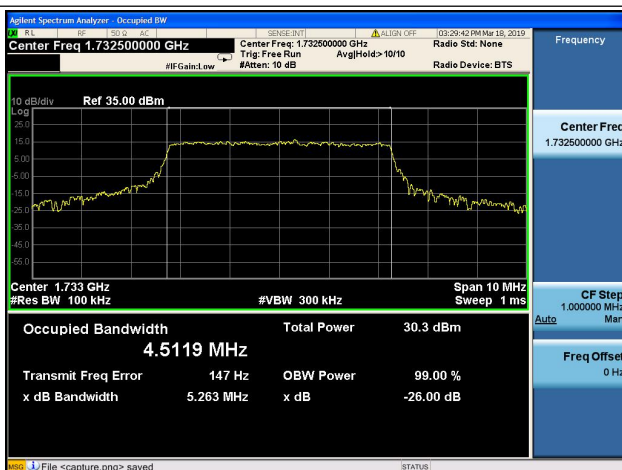
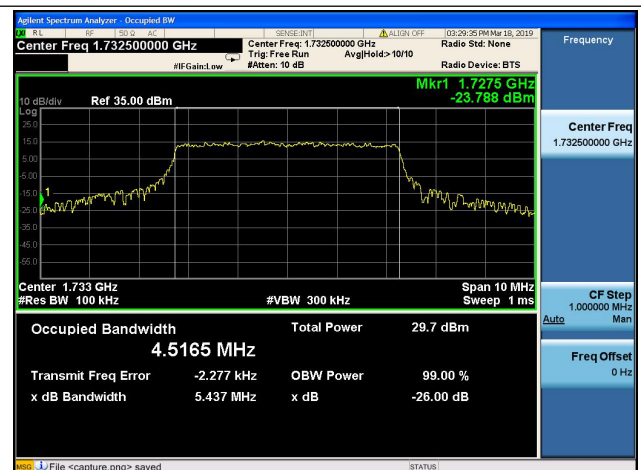
1.4MHz/QPSK/Mid CH



1.4MHz/16QAM/Mid CH

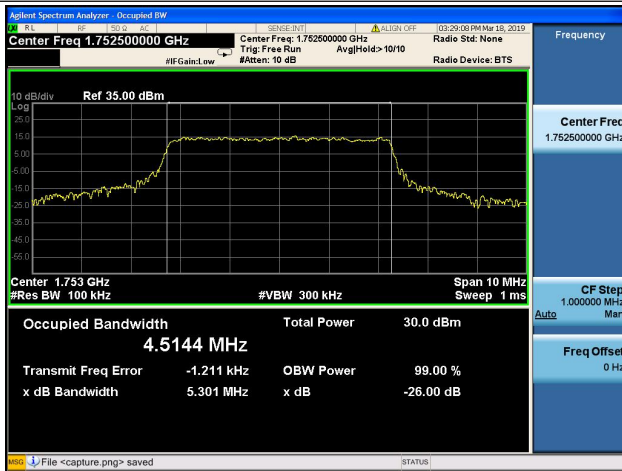


**1.4MHz/QPSK/High CH****1.4MHz/16QAM/High CH****3MHz/QPSK/Low CH****3MHz/16QAM/Low CH****3MHz/QPSK/Mid CH****3MHz/16QAM/Mid CH**

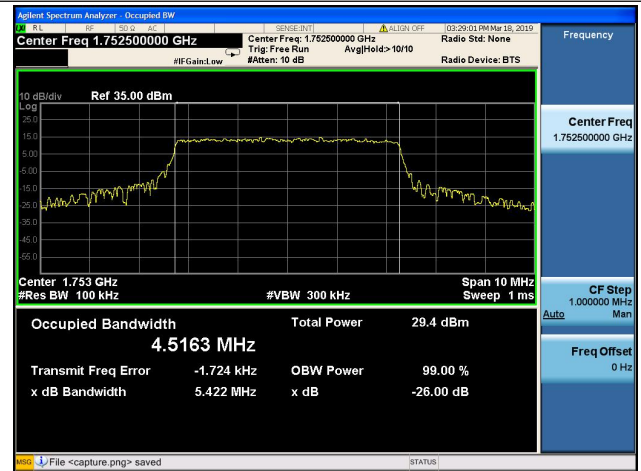
**3MHz/QPSK/High CH****3MHz/16QAM/High CH****5MHz/QPSK/Low CH****5MHz/16QAM/Low CH****5MHz/QPSK/Mid CH****5MHz/16QAM/Mid CH**



5MHz/QPSK/High CH



5MHz/16QAM/High CH



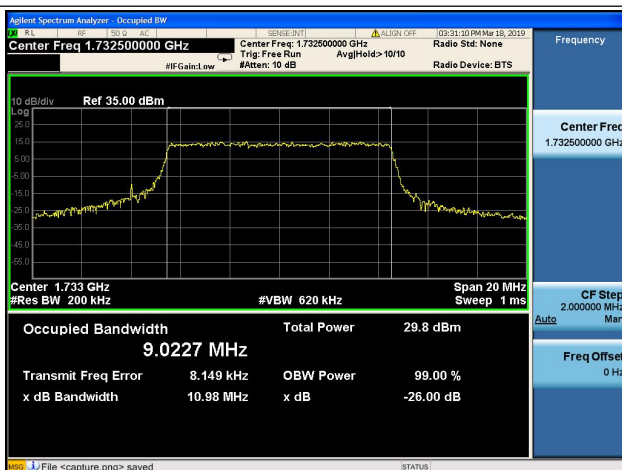
10MHz/QPSK/Low CH



10MHz/16QAM/Low CH



10MHz/QPSK/Mid CH



10MHz/16QAM/Mid CH

