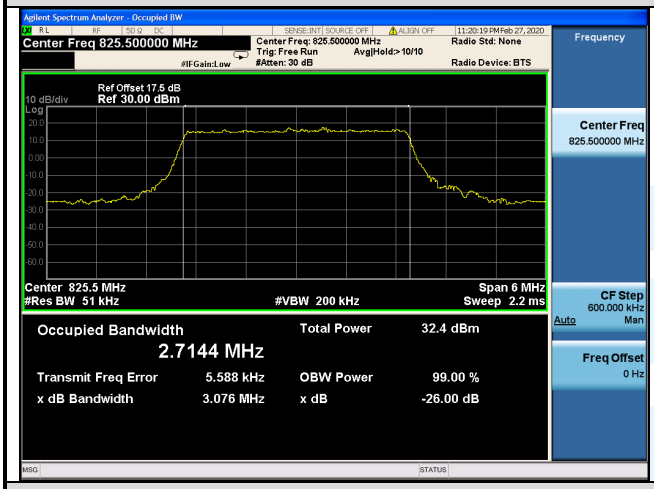
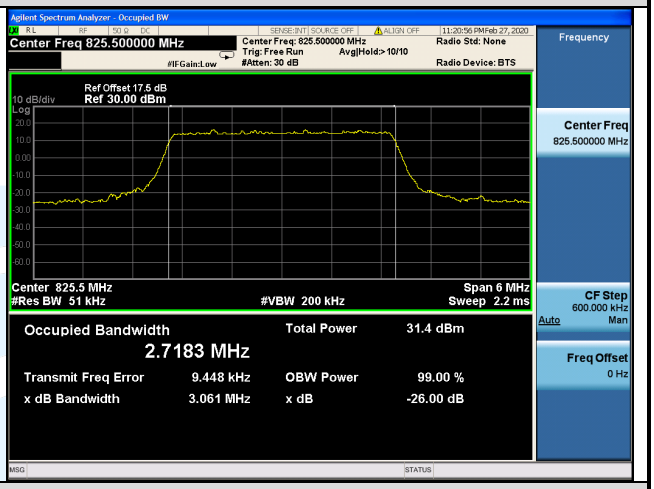
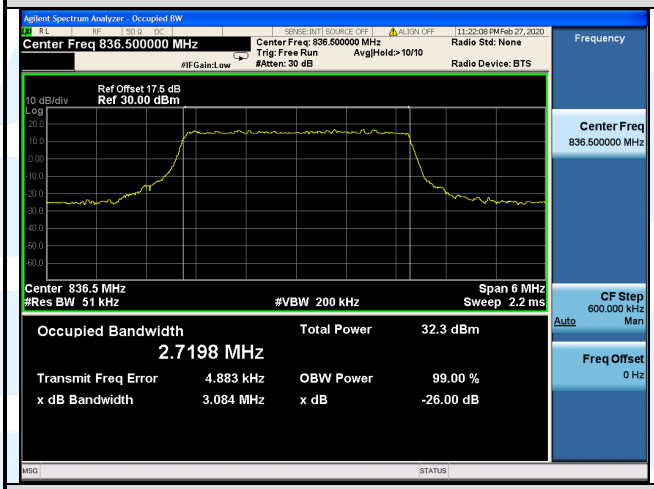
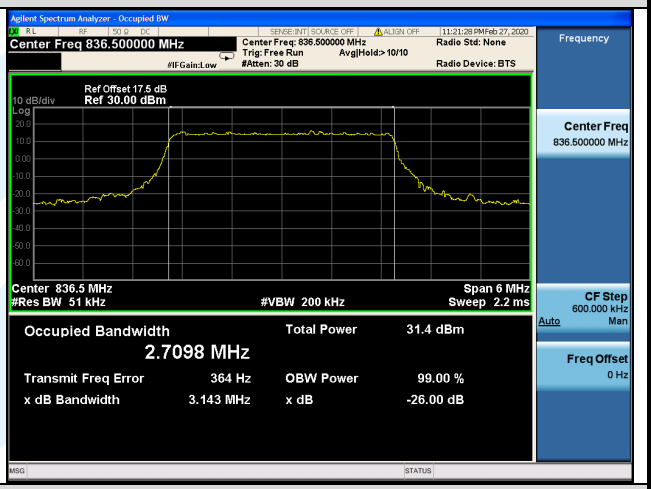
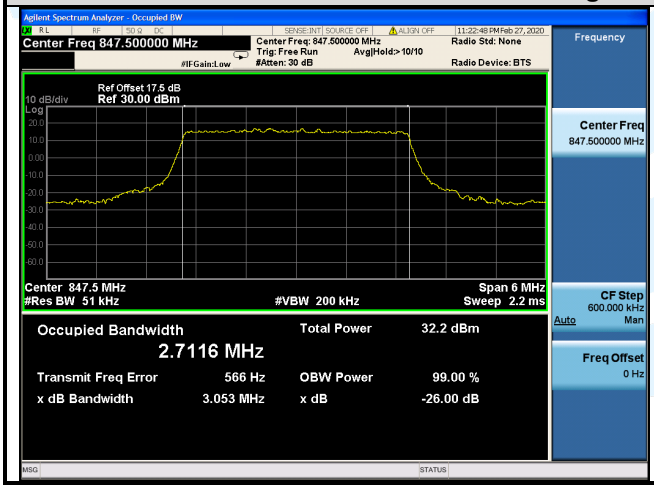
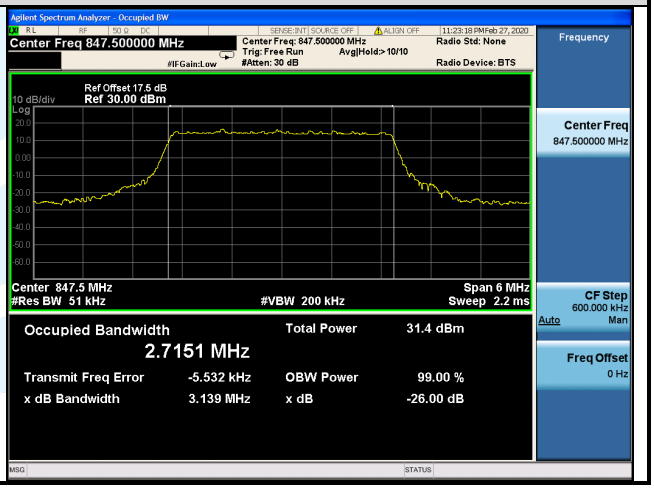
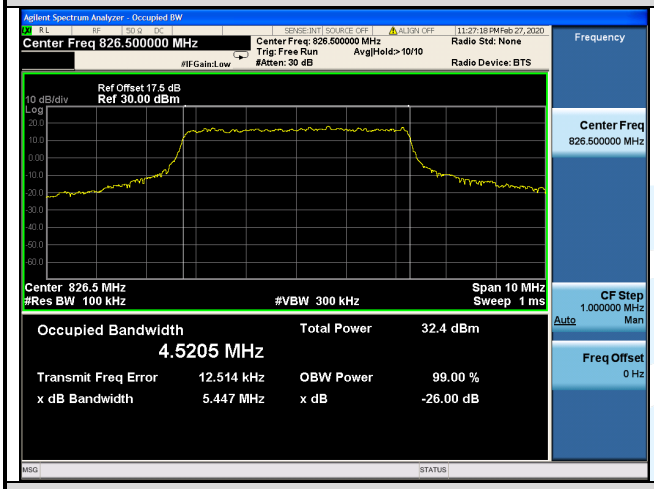
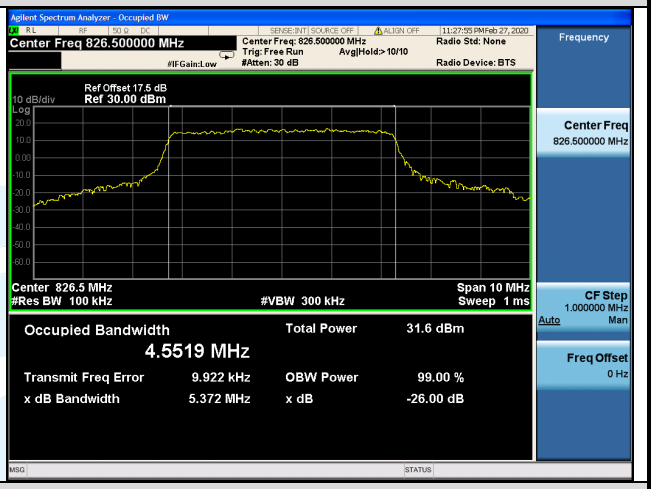
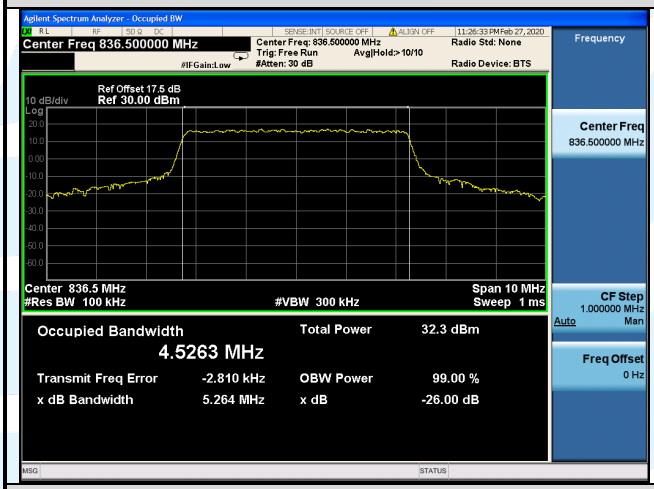
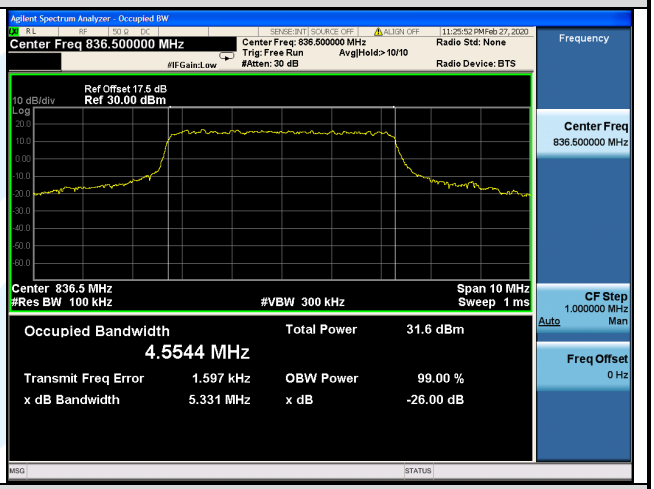
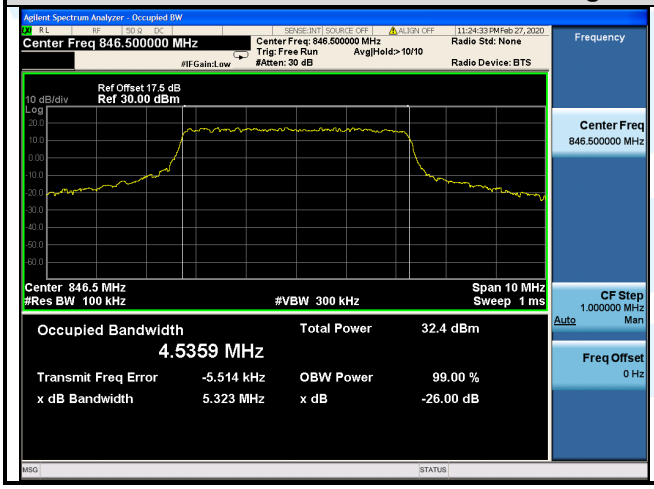
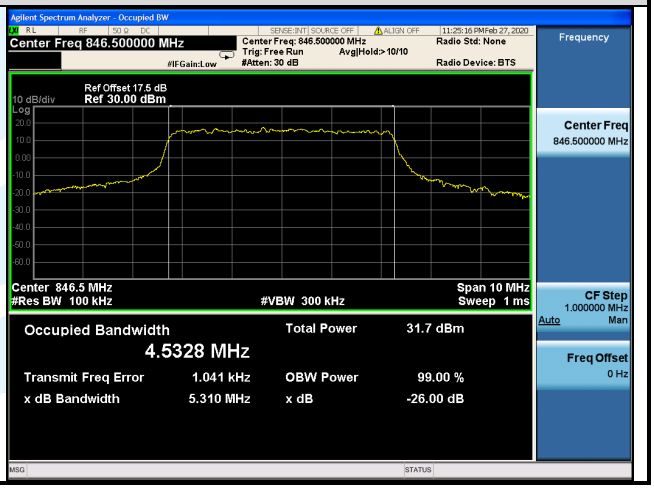
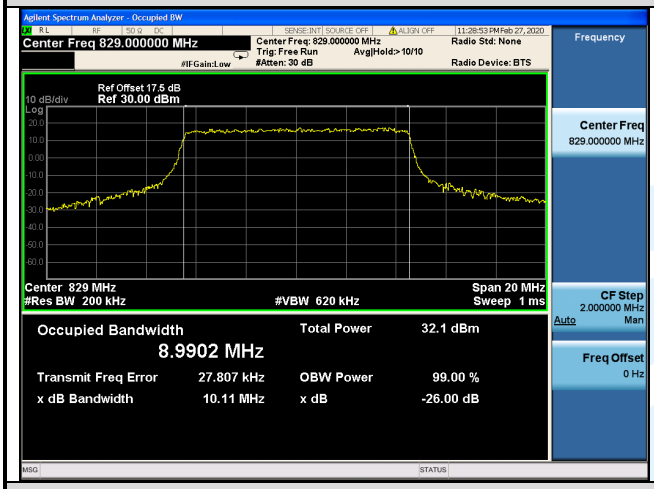
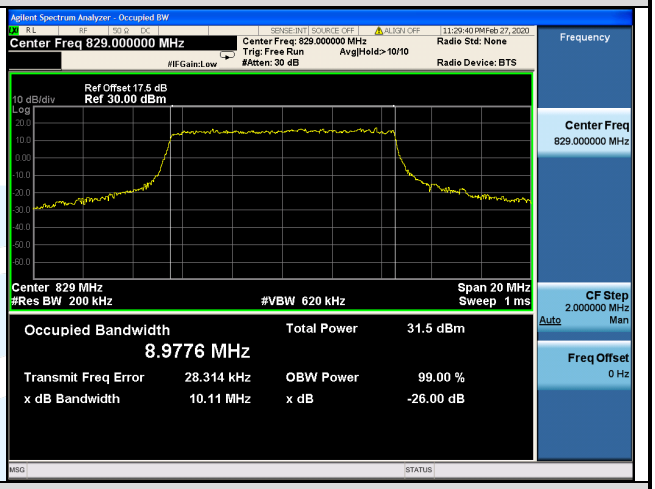
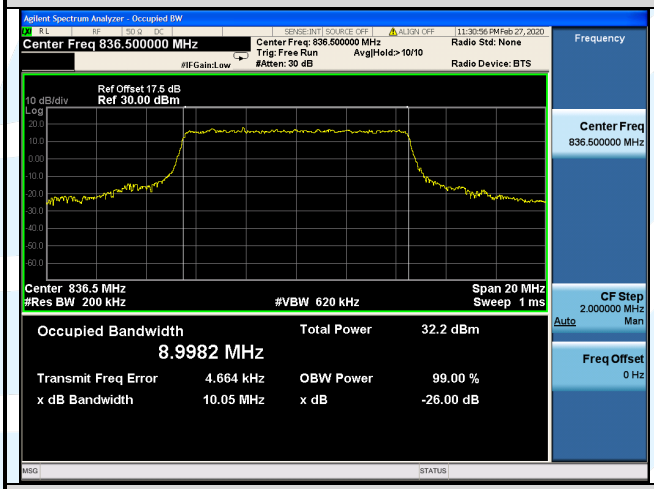
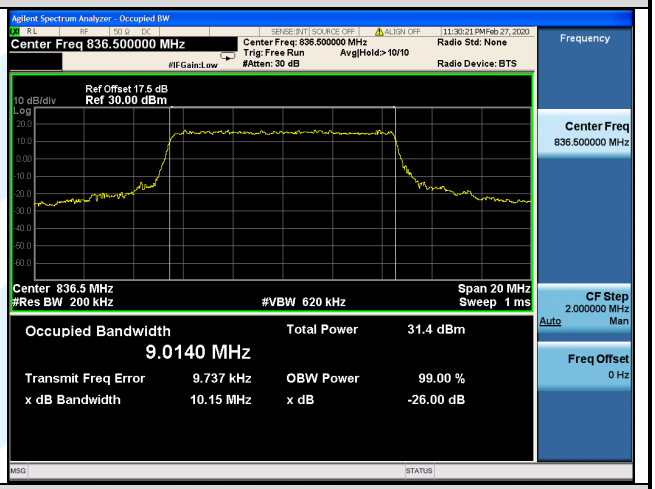
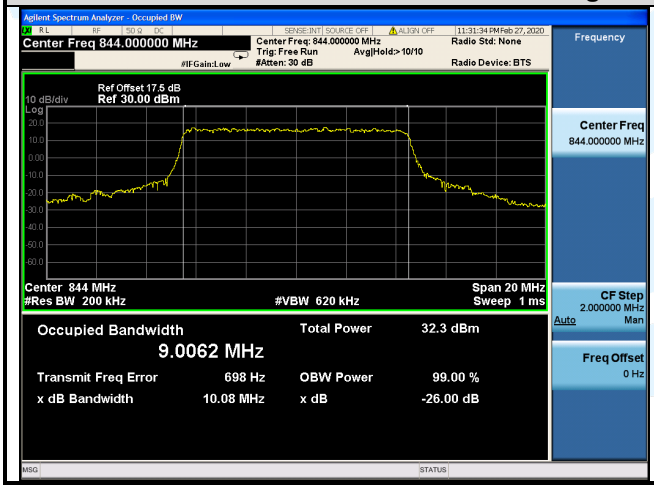
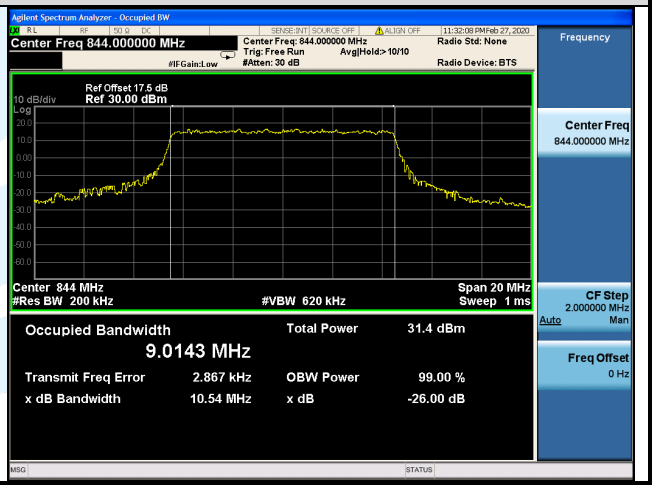
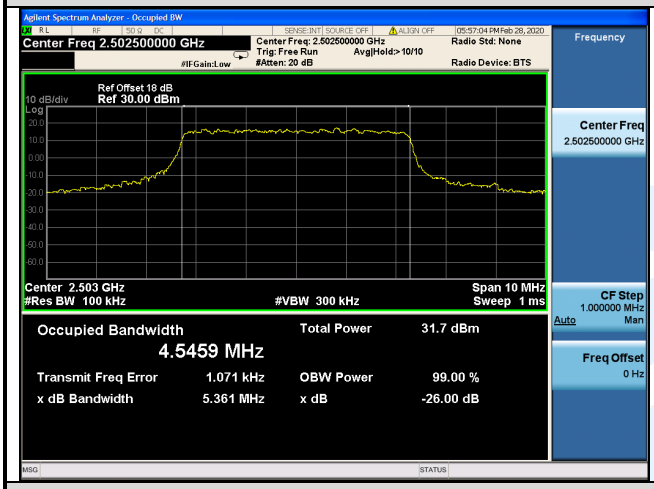
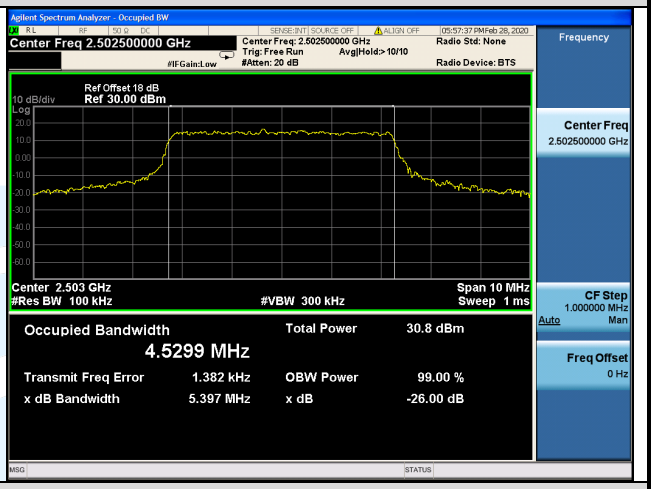
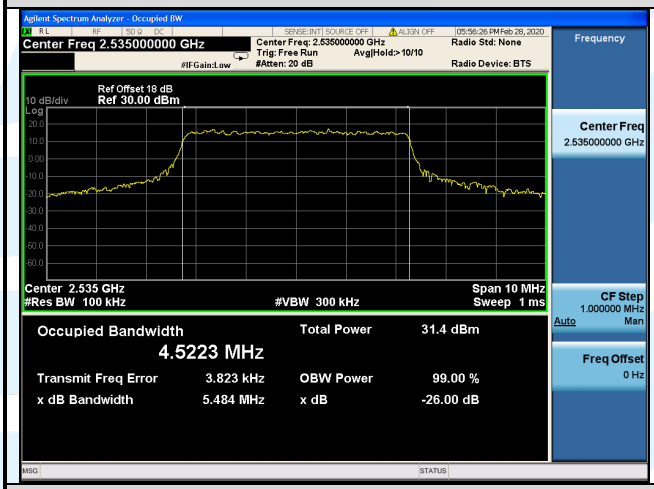
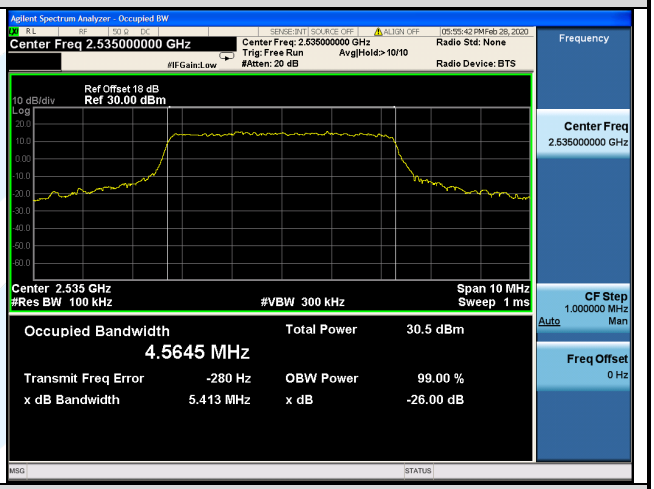
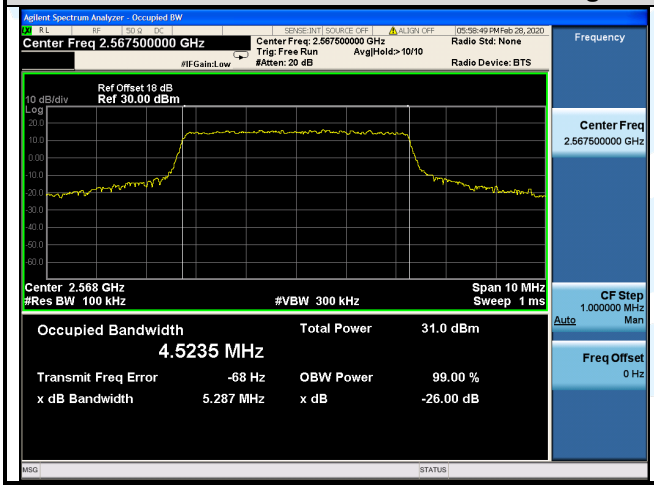
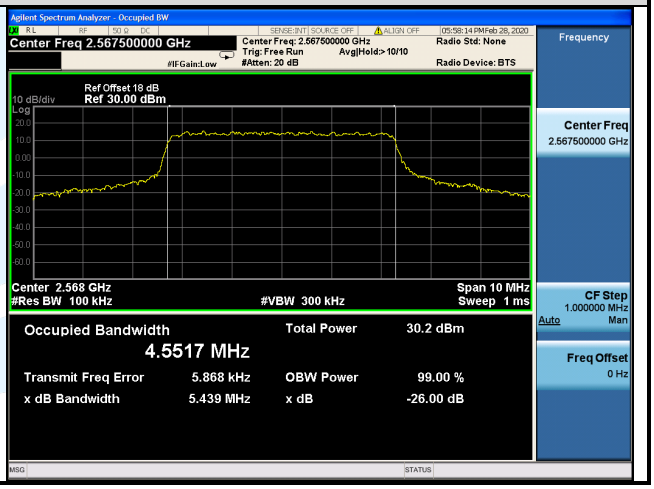
LTE Band 5_ Channel Bandwidth: 3 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

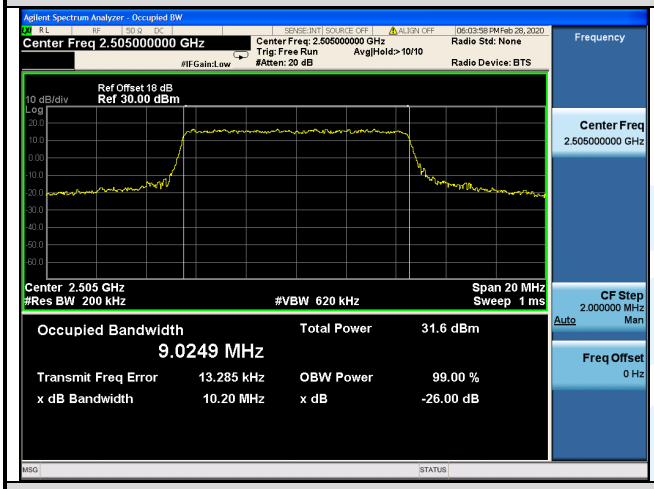
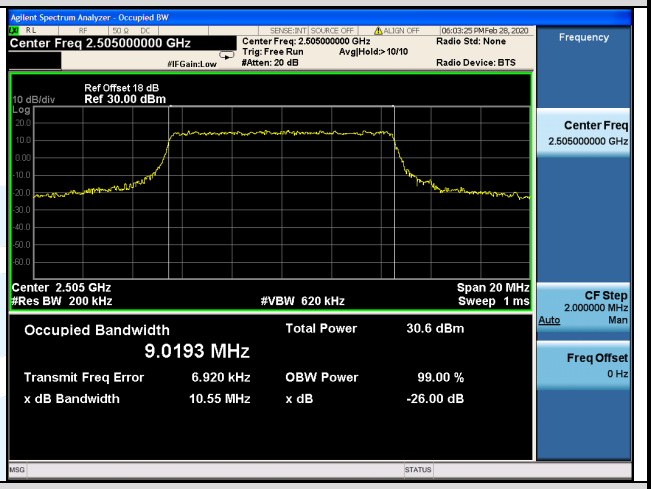
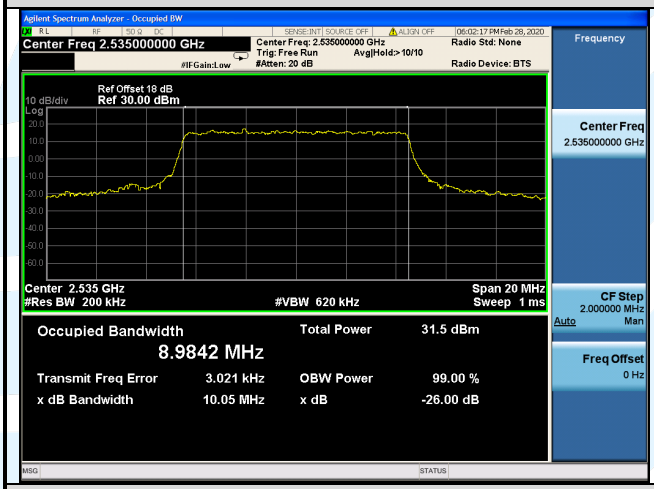
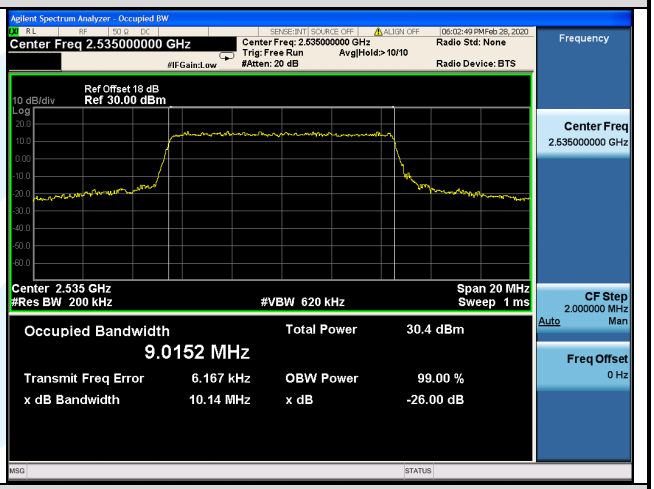
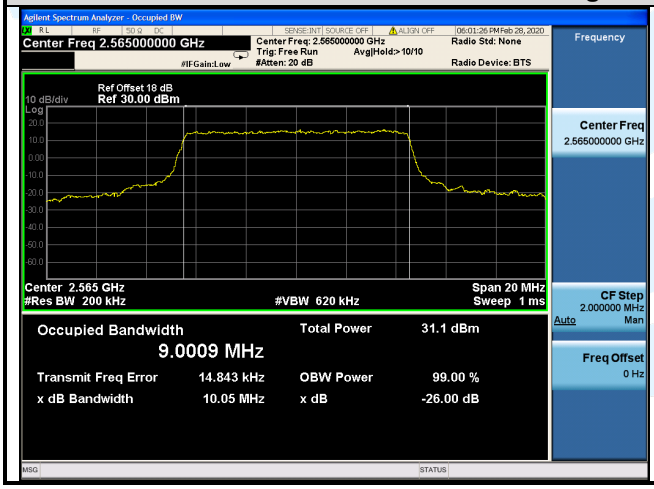
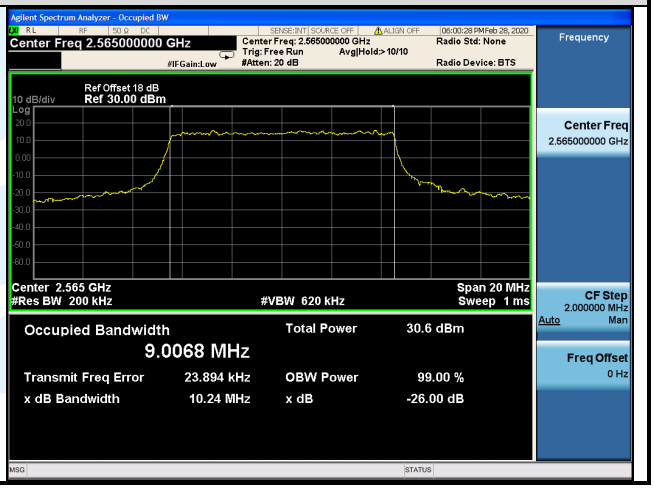
LTE Band 5_ Channel Bandwidth: 5 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

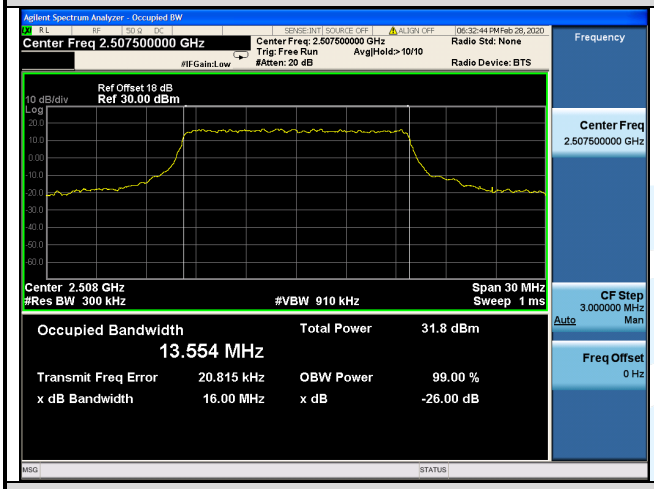
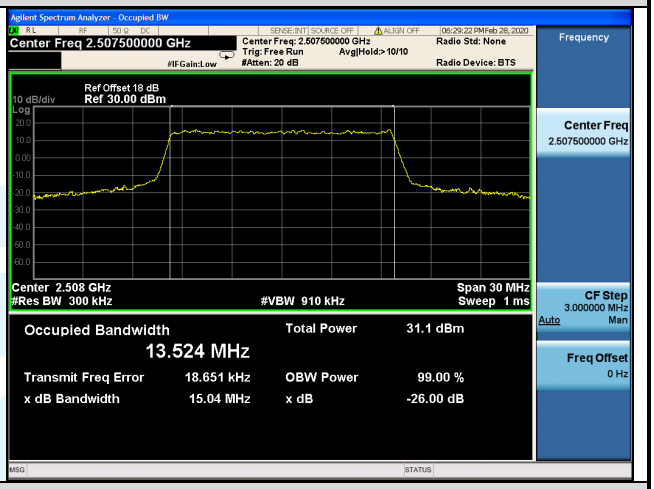
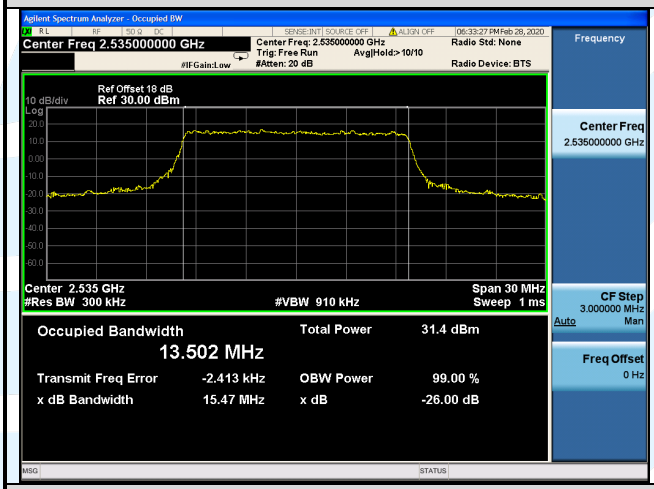
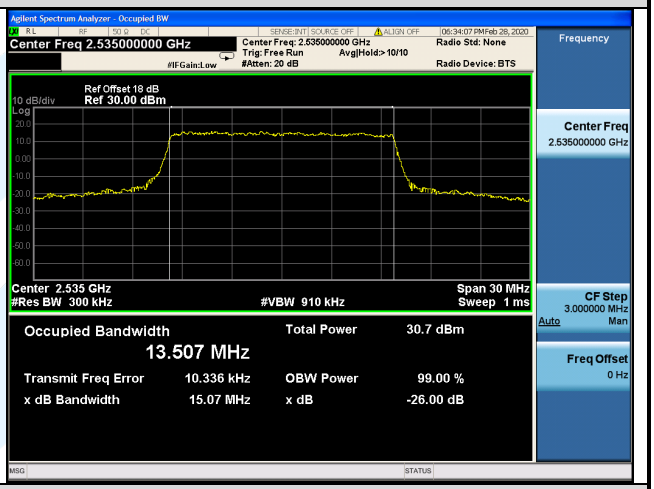
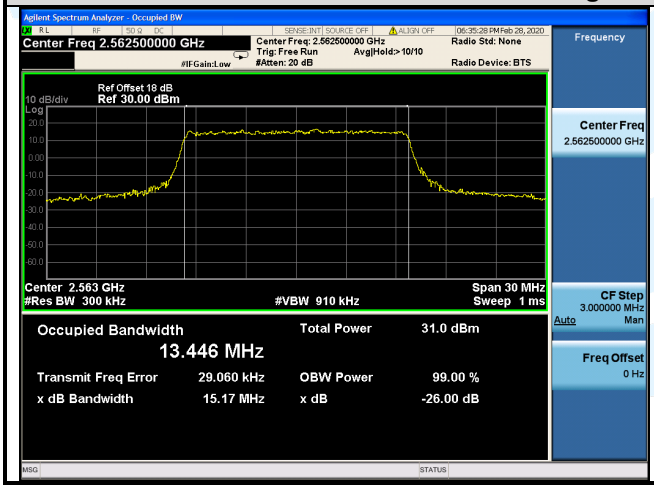
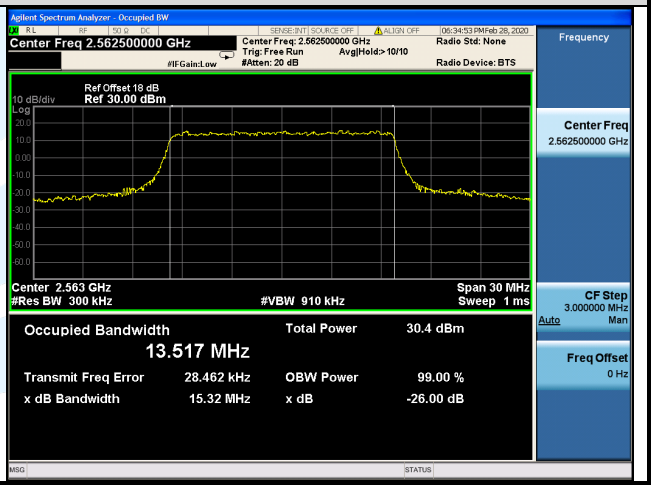
LTE Band 5_ Channel Bandwidth: 10 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

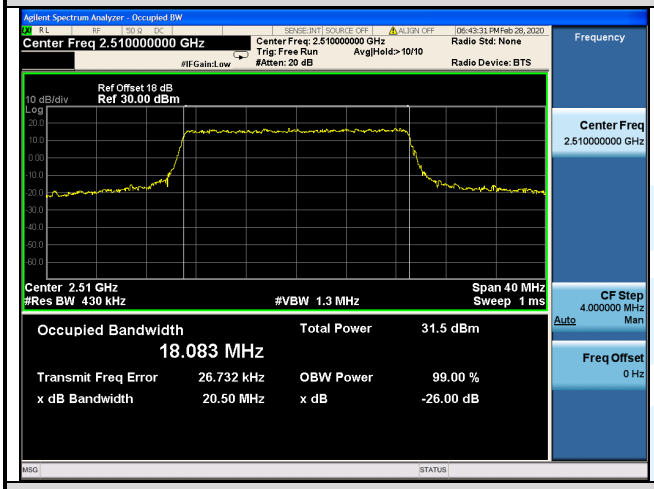
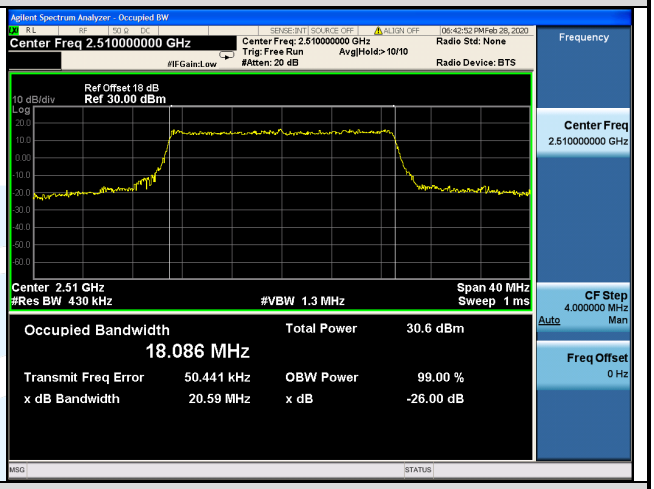
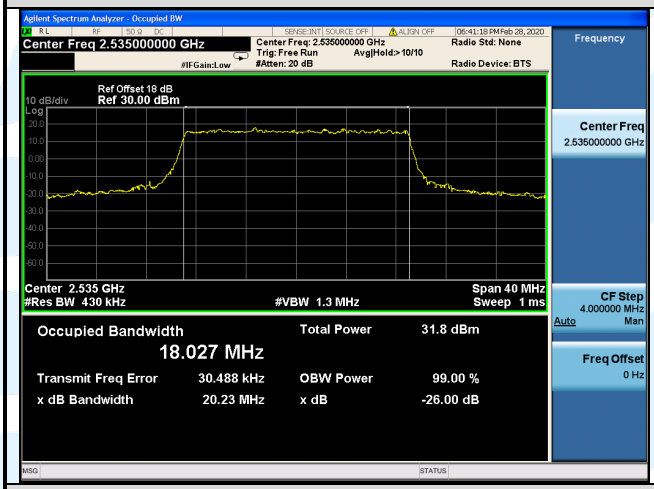
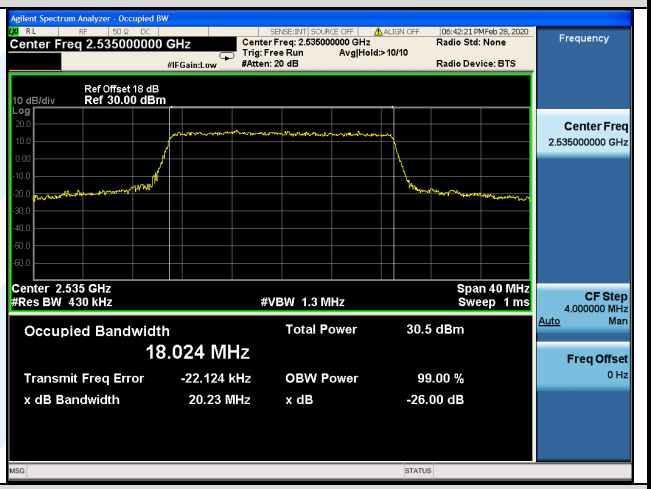
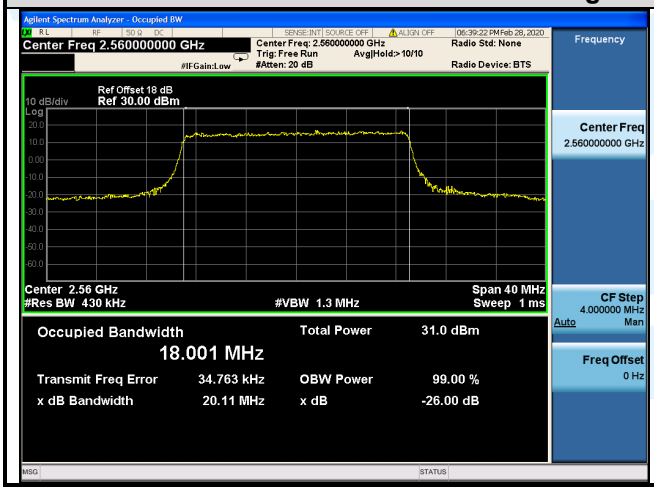
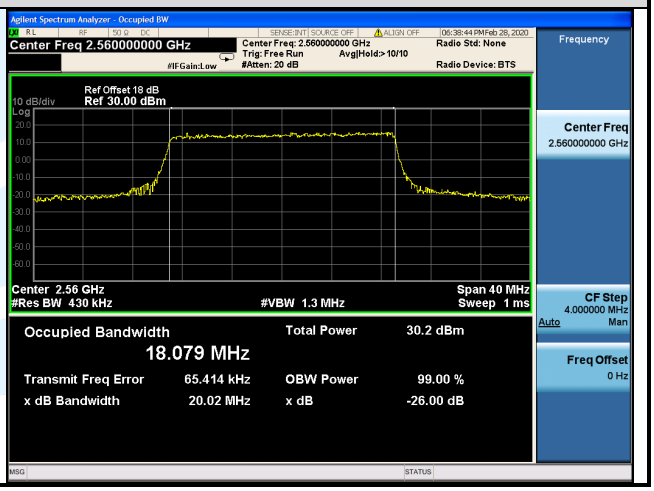
5.5.4 LTE Band 7

LTE Band 7								
Channel	RB Configuration		26 dB BW (MHz)			99% BW (MHz)		
	Size	Offset	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Channel Bandwidth: 5 MHz								
Lowest	25	0	5.361	5.397	/	4.5459	4.5299	/
Middle	25	0	5.484	5.413	/	4.5223	4.5645	/
Highest	25	0	5.287	5.439	/	4.5235	4.5517	/
Channel Bandwidth: 10 MHz								
Lowest	50	0	10.20	10.55	/	9.0249	9.0193	/
Middle	50	0	10.05	10.14	/	8.9842	9.0152	/
Highest	50	0	10.05	10.24	/	9.0009	9.0068	/
Channel Bandwidth: 15 MHz								
Lowest	75	0	16.00	15.04	/	13.554	13.524	/
Middle	75	0	15.47	15.07	/	13.502	13.507	/
Highest	75	0	15.17	15.32	/	13.446	13.517	/
Channel Bandwidth: 20 MHz								
Lowest	100	0	20.50	20.59	/	18.083	18.086	/
Middle	100	0	20.23	20.23	/	18.027	18.024	/
Highest	100	0	20.11	20.02	/	18.001	18.079	/

LTE Band 7_ Channel Bandwidth: 5 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

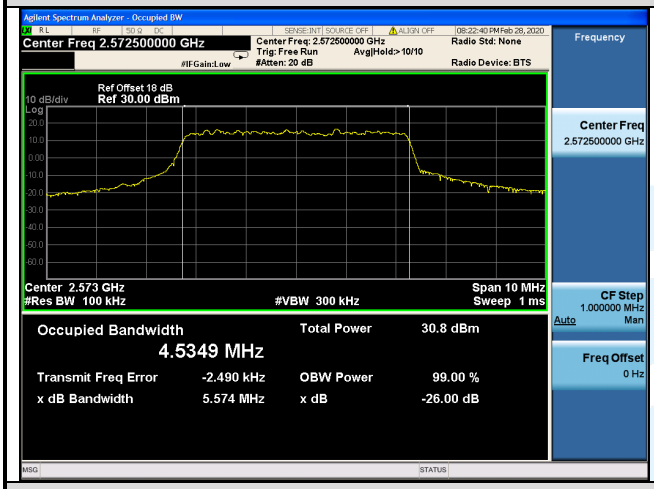
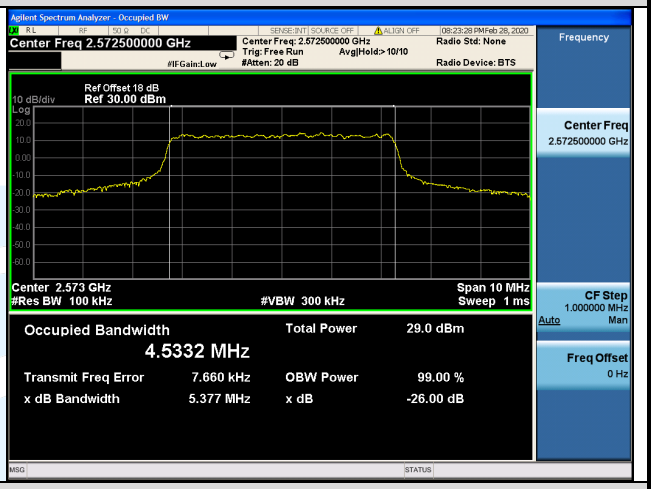
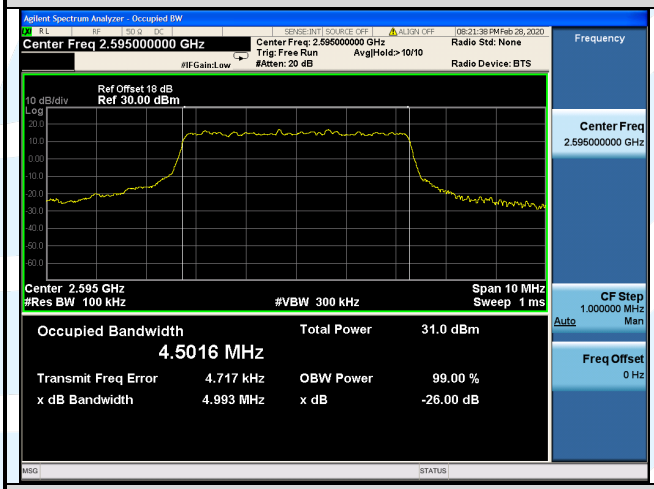
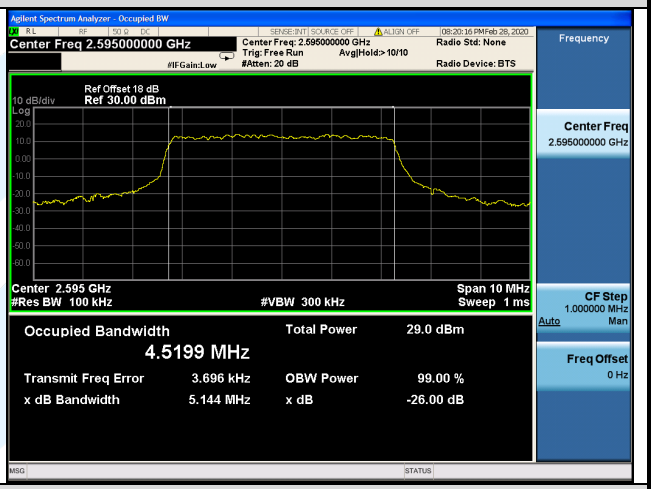
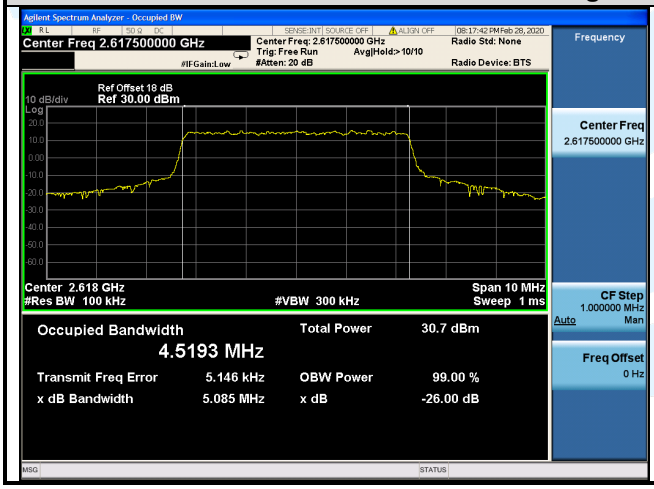
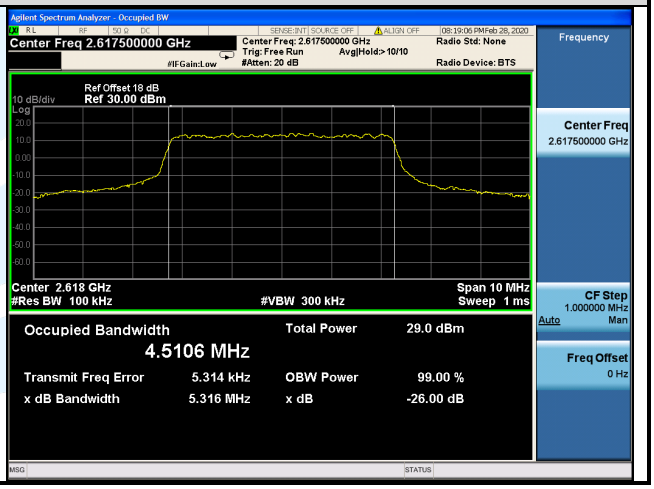
LTE Band 7_ Channel Bandwidth: 10 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

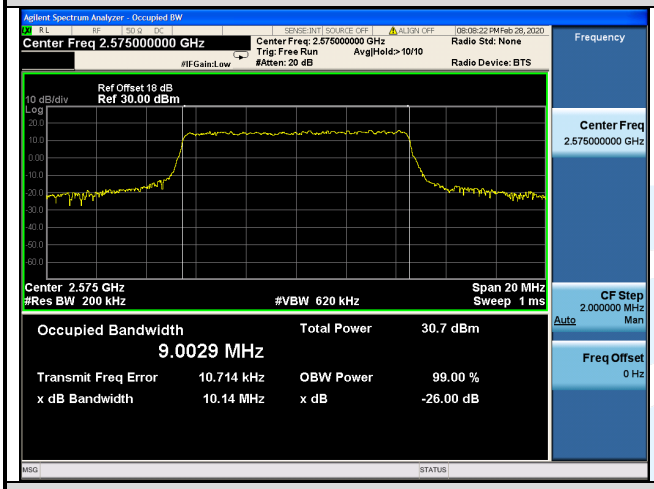
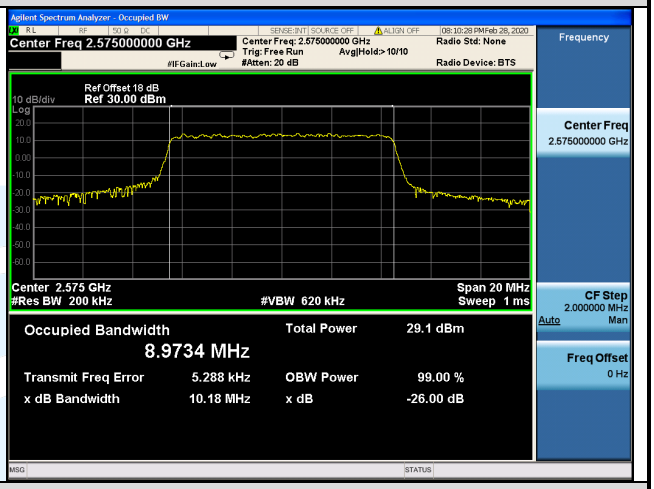
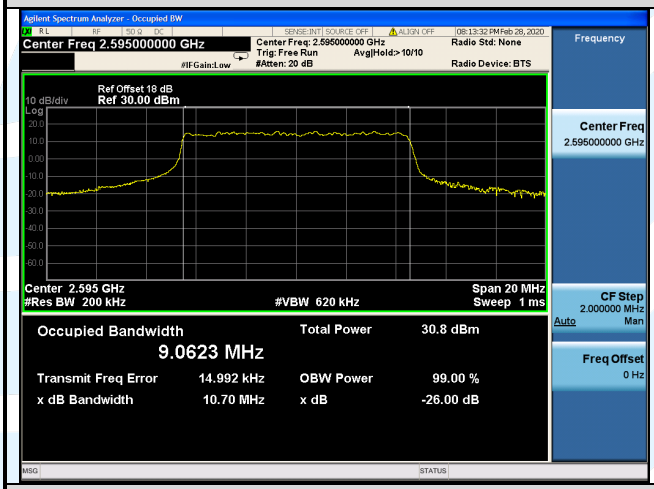
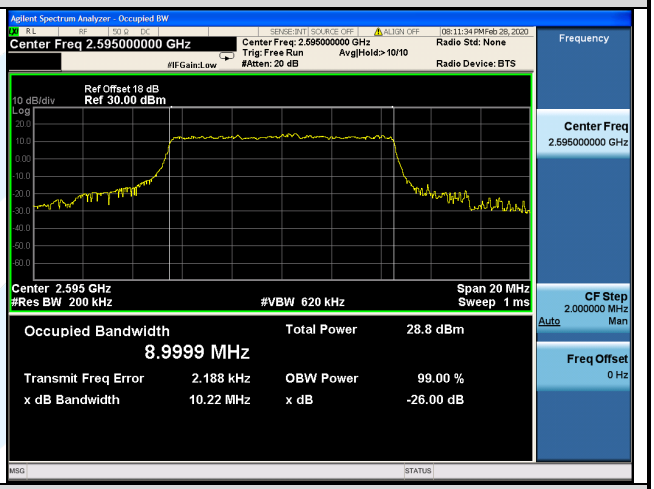
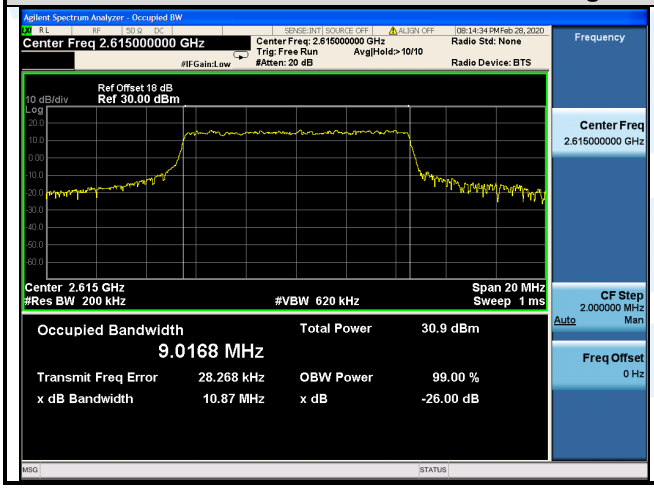
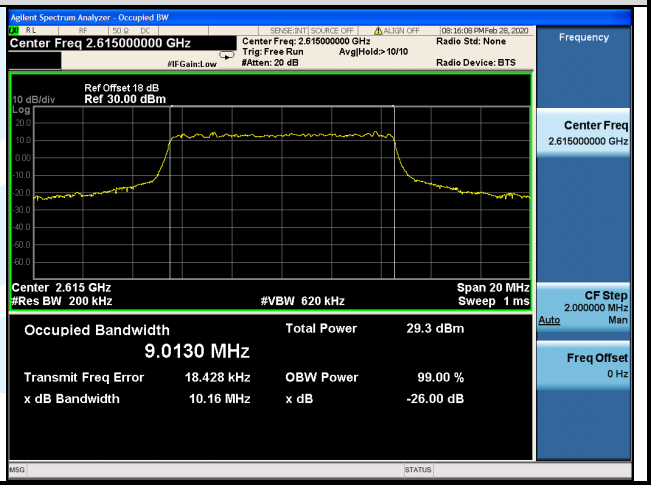
LTE Band 7_ Channel Bandwidth: 15 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

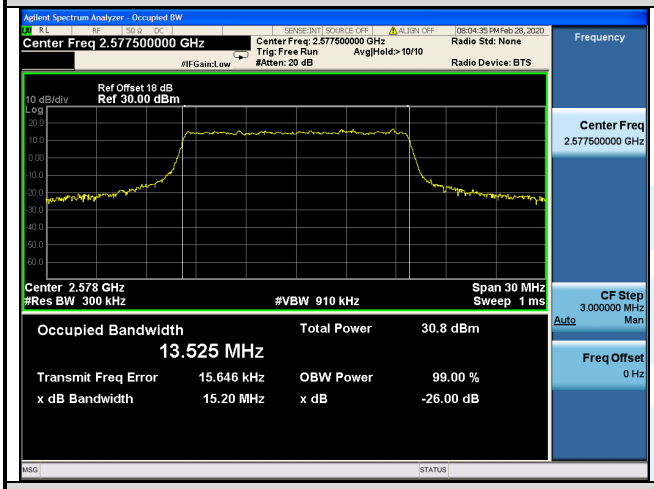
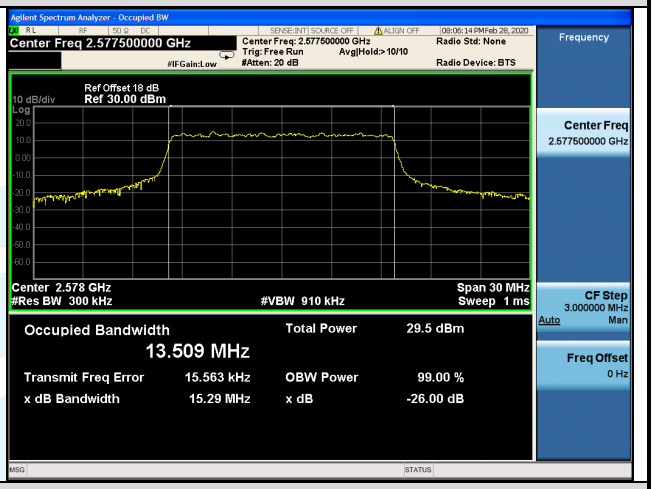
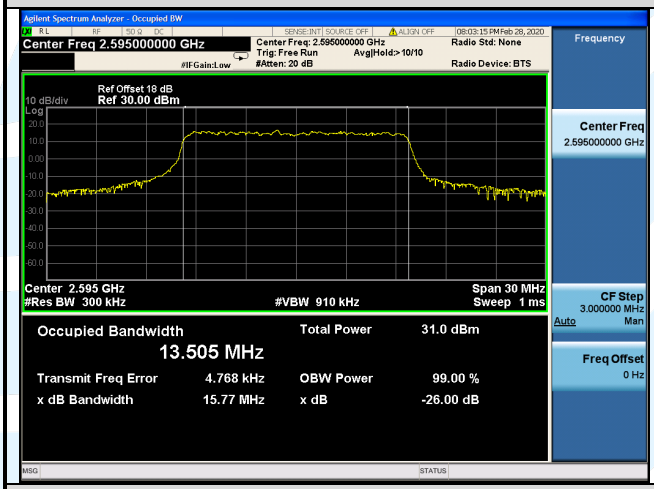
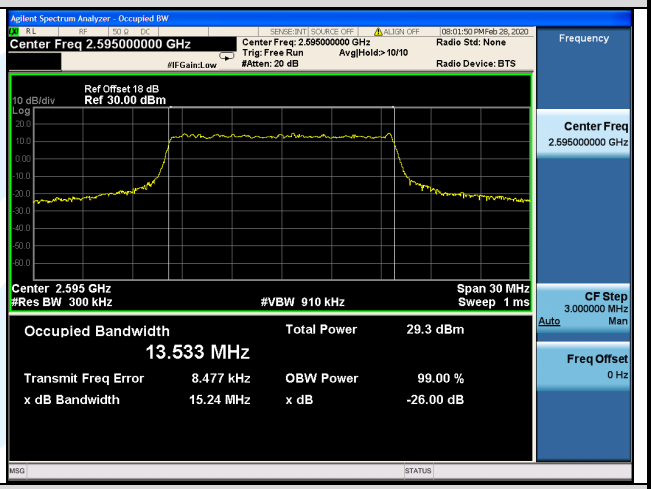
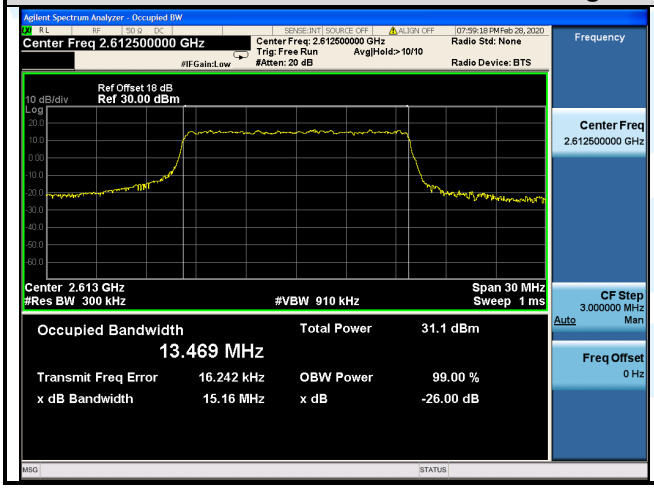
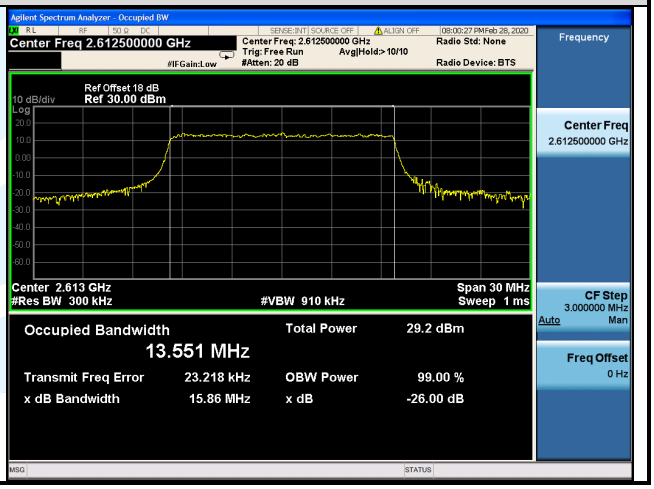
LTE Band 7_ Channel Bandwidth: 20 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

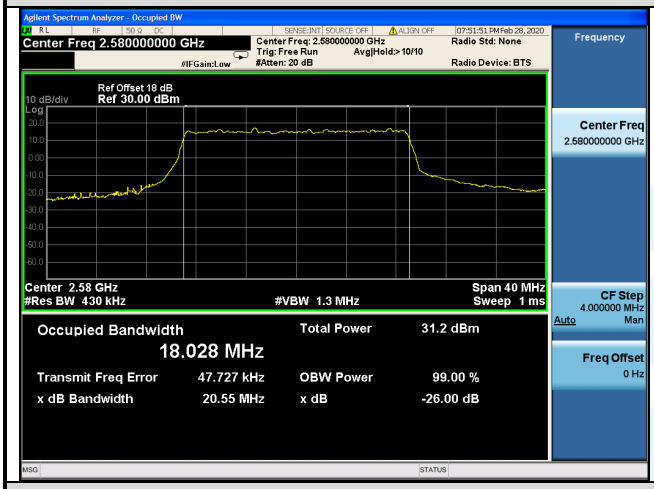
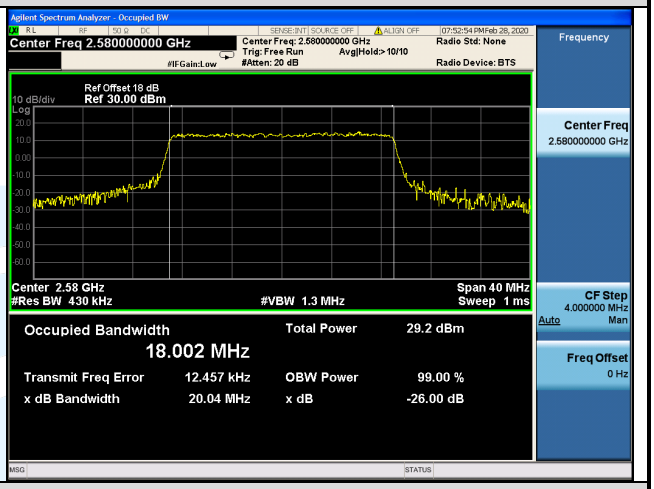
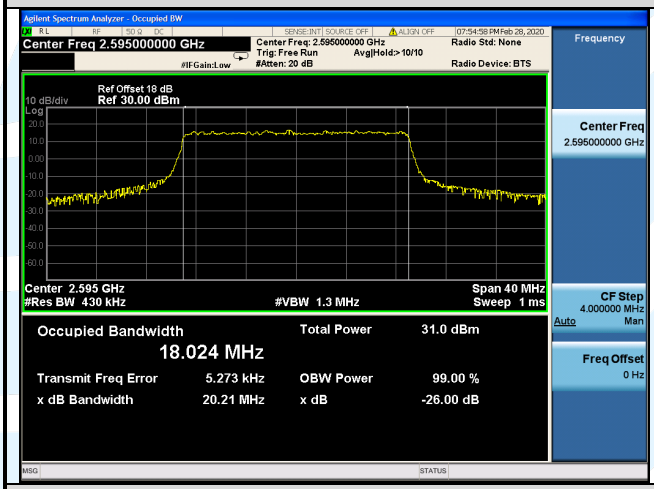
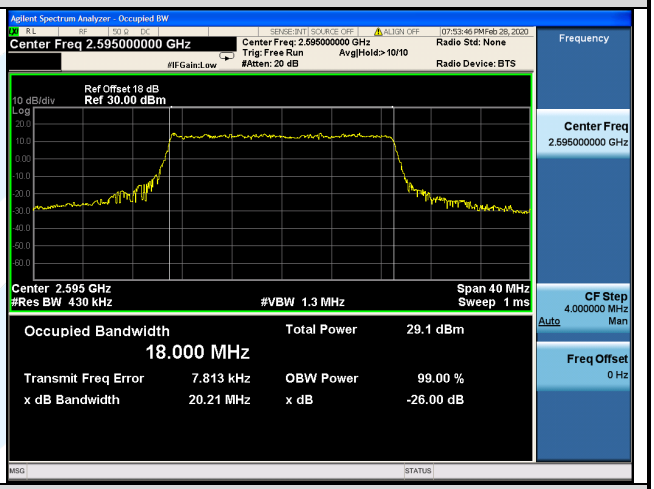
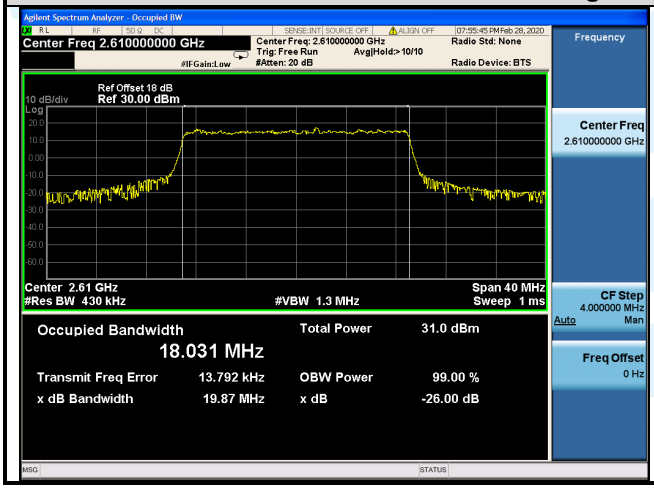
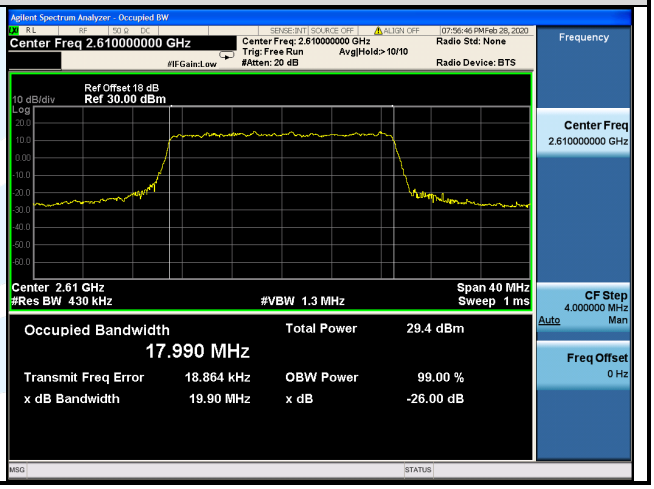
5.5.5 LTE Band 38

LTE Band 38								
Channel	RB Configuration		26 dB BW (MHz)			99% BW (MHz)		
	Size	Offset	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Channel Bandwidth: 5 MHz								
Lowest	25	0	5.574	5.377	/	4.5349	4.5332	/
Middle	25	0	4.993	5.144	/	4.5016	4.5199	/
Highest	25	0	5.085	5.316	/	4.5193	4.5106	/
Channel Bandwidth: 10 MHz								
Lowest	50	0	10.14	10.18	/	9.0029	8.9734	/
Middle	50	0	10.70	10.22	/	9.0623	8.9999	/
Highest	50	0	10.87	10.16	/	9.0168	9.0130	/
Channel Bandwidth: 15 MHz								
Lowest	75	0	15.20	15.29	/	13.525	13.509	/
Middle	75	0	15.77	15.24	/	13.505	13.533	/
Highest	75	0	15.16	15.86	/	13.469	13.551	/
Channel Bandwidth: 20 MHz								
Lowest	100	0	20.55	20.04	/	18.028	18.002	/
Middle	100	0	20.21	20.21	/	18.024	18.000	/
Highest	100	0	19.87	19.90	/	18.031	17.990	/

LTE Band 38_ Channel Bandwidth: 5 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

LTE Band 38_ Channel Bandwidth: 10 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

LTE Band 38_ Channel Bandwidth: 15 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

LTE Band 38_ Channel Bandwidth: 20 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

5.6 BAND EDGE AT ANTENNA TERMINALS

Test Requirement: **LTE Band 2:** FCC 47 CFR Part 24.238(a)
LTE Band 4: FCC 47 CFR Part 27.53(h)(1)
LTE Band 5: FCC 47 CFR Part 22.917(a)
LTE Band 7 & Band 38: FCC 47 CFR Part 27.53(m)(4)

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limit:

FCC 47 CFR Part 24.238(a), 27.53(h)(1), 22.917(a) :
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. The emission limit equal to -13 dBm.

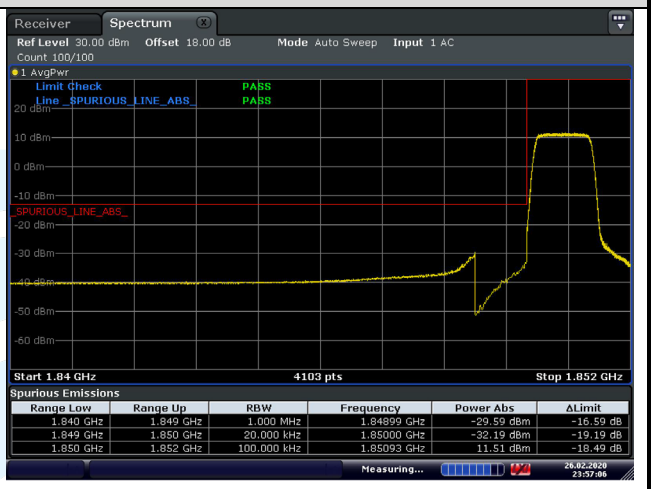
FCC 47 CFR Part 27.53(m)(4):
For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Test Procedure:
The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer.
For each band edge measurement:
1) Set the spectrum analyzer span to include the block edge frequency.
2) Set a marker to point the corresponding band edge frequency in each test case.
3) Set display line at -13 dBm
4) Set resolution bandwidth to at least 1% of emission bandwidth.
5) Set spectrum analyzer with RMS detector.
6) Record the max trace plot into the test report

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.
Instruments Used: Refer to section 3 for details
Test Mode: Link mode
Test Results: Pass

5.6.1 LTE Band 2

LTE Band 2 / 1.4 MHz / QPSK	
1 RB	**Full RB**
Lowest Channel	
	
Date: 26.FEB.2020 23:58:05	Date: 26.FEB.2020 23:57:06
Highest Channel	
	
Date: 26.FEB.2020 23:59:41	Date: 27.FEB.2020 00:00:36