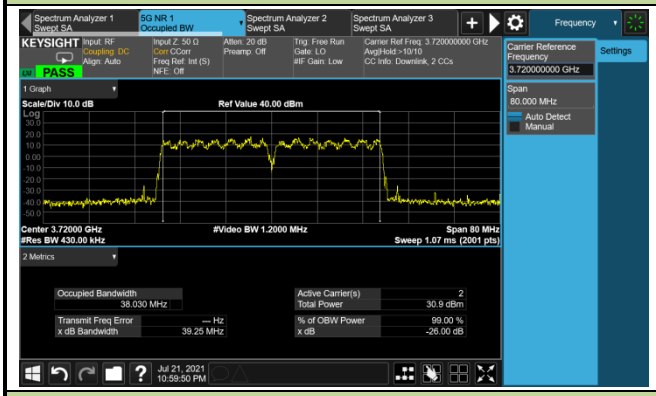
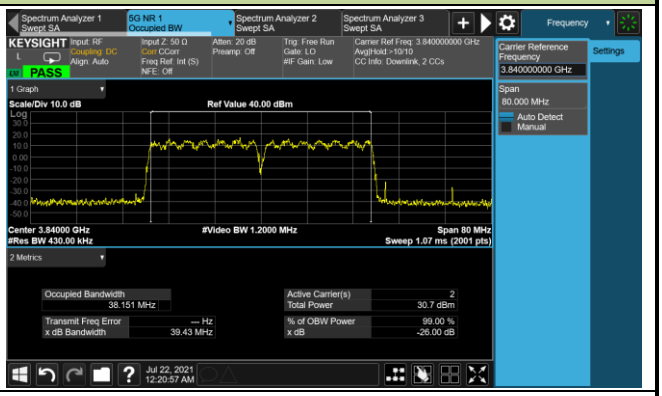
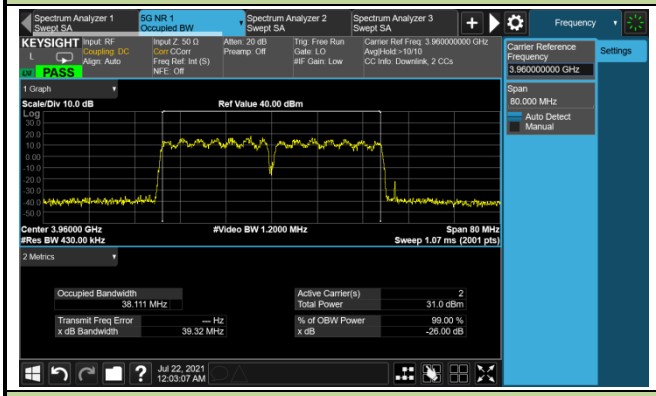
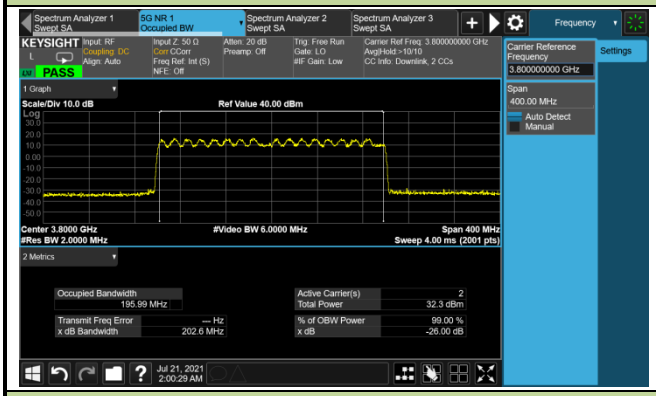
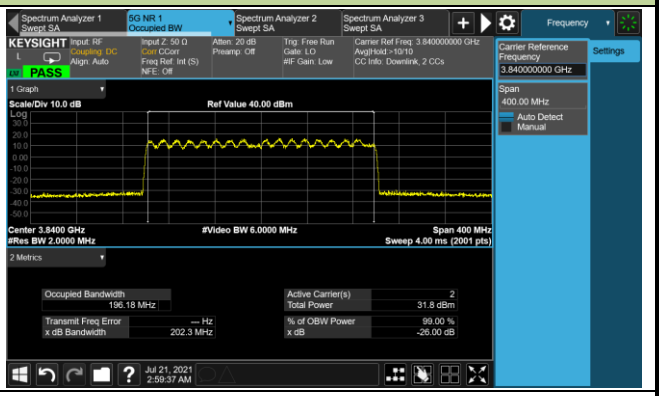
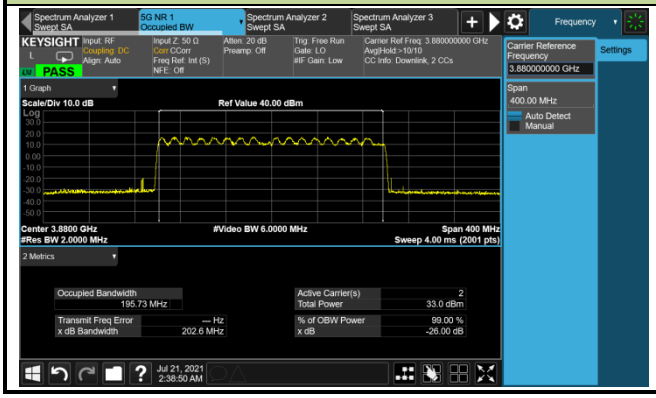
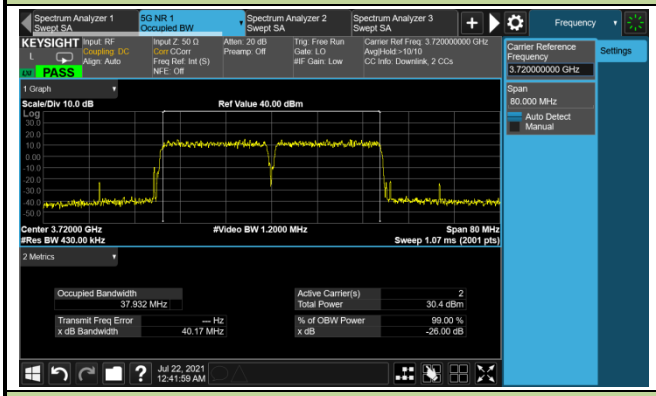
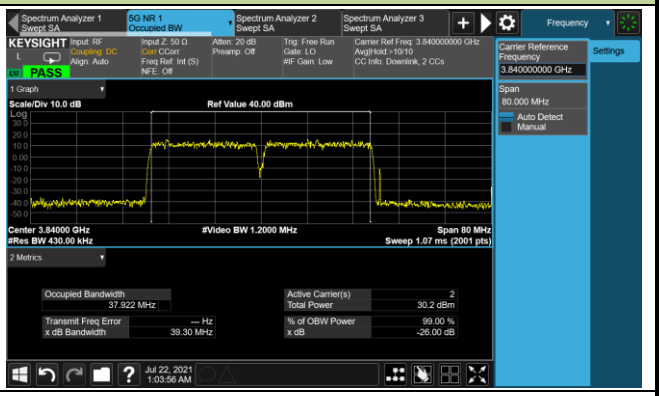
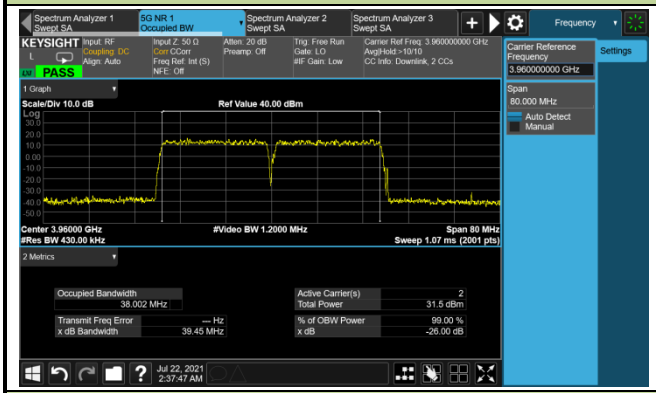
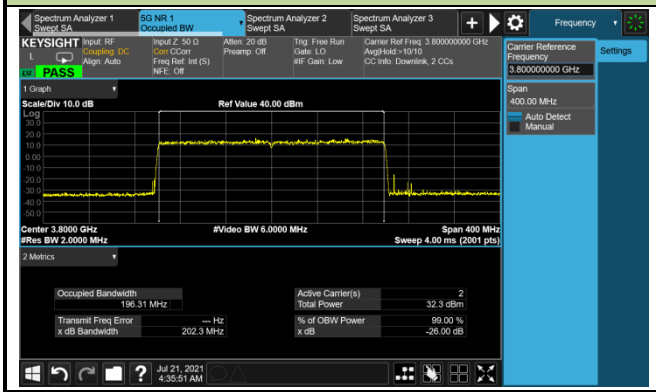
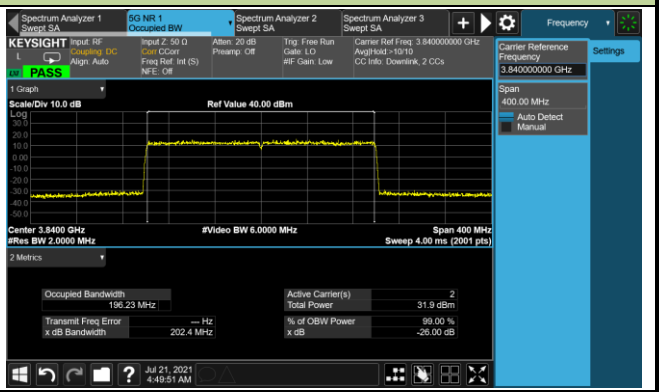
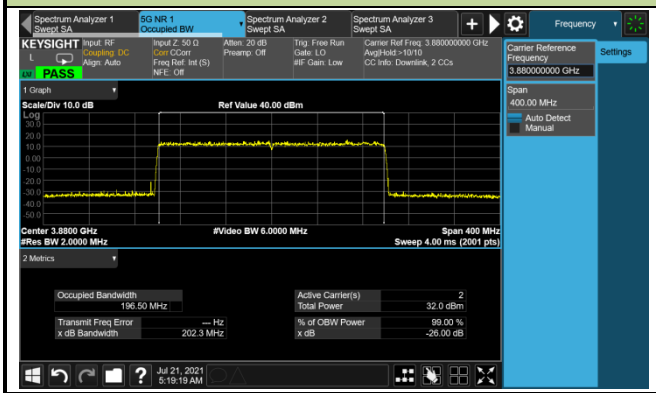
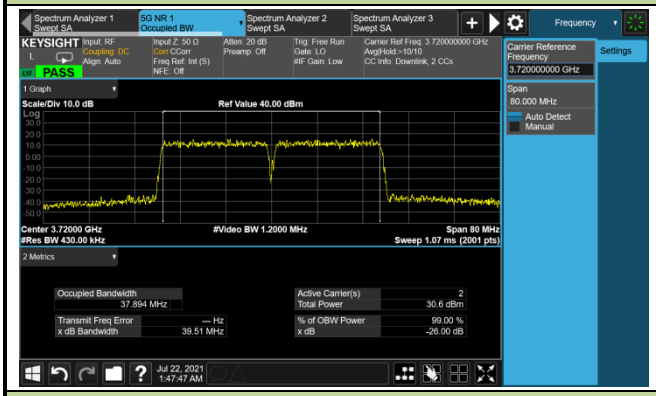
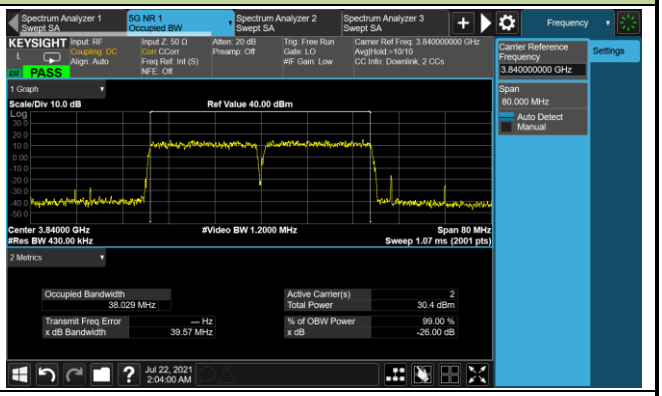
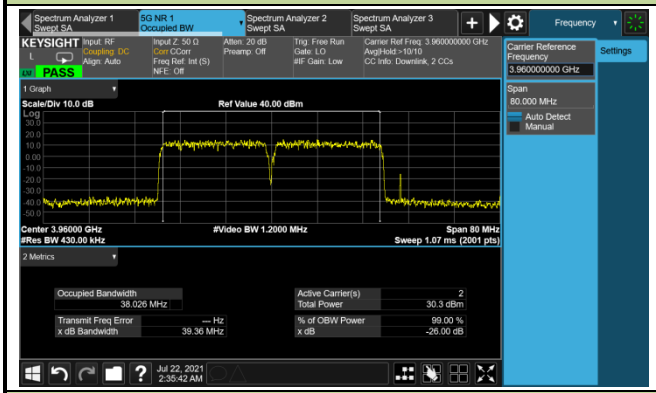
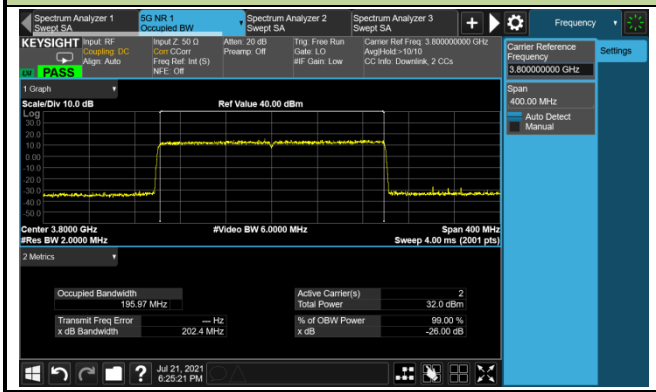
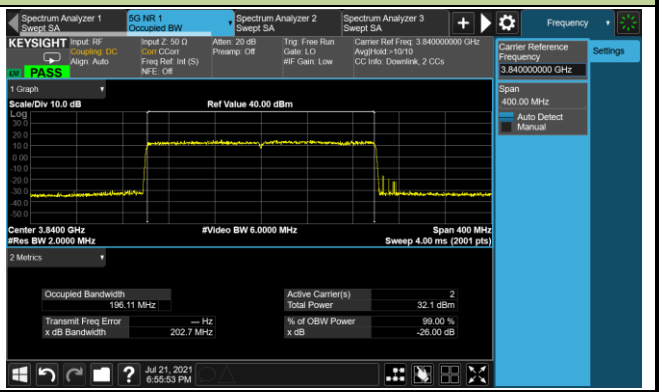
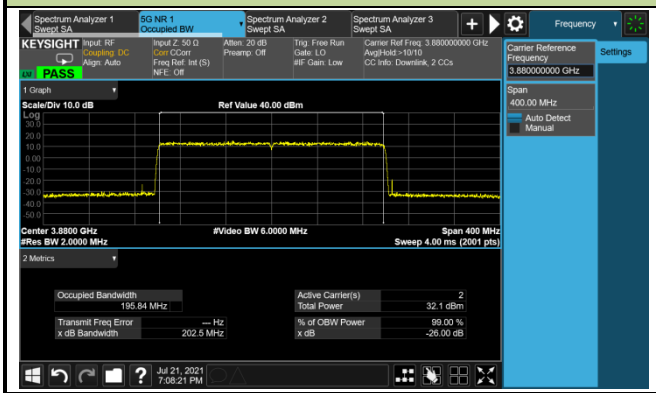
20+20 MHz Channel Bandwidth - 16QAM	
3710+3730 MHz	3830+3850 MHz
	
3950+3970 MHz	
	
100+100 MHz Channel Bandwidth - 16QAM	
3750+3850 MHz	3790+3890 MHz
	
3983+3930 MHz	
	

20+20 MHz Channel Bandwidth - 64QAM	
3710+3730 MHz	3830+3850 MHz
	
3950+3970 MHz	
	
100+100 MHz Channel Bandwidth - 64QAM	
3750+3850 MHz	3790+3890 MHz
	
3983+3930 MHz	
	

20+20 MHz Channel Bandwidth - 256QAM	
3710+3730 MHz	3830+3850 MHz
	
3950 + 3970 MHz	
	
100+100 MHz Channel Bandwidth - 256QAM	
3750+3850 MHz	3790+3890 MHz
	
3983+3930 MHz	
	

5.5. Peak to Average Ratio Measurement

5.5.1.Test Limit

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

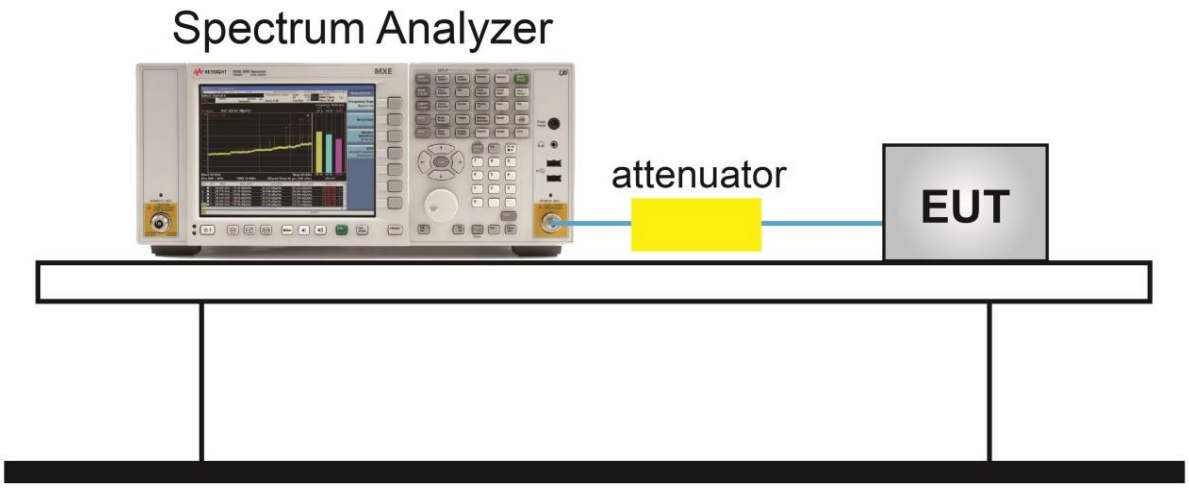
5.5.2.Test Procedure Used

ANSI C63.26-2015 - Section 5.2.3.4 (CCDF).

5.5.3.Test Setting

1. Set the resolution / measurement bandwidth ≥ signal's occupied bandwidth
2. Set the number of counts to a value that stabilizes the measured CCDF curve
3. Record the maximum PARR level associated with a probability of 0.1%

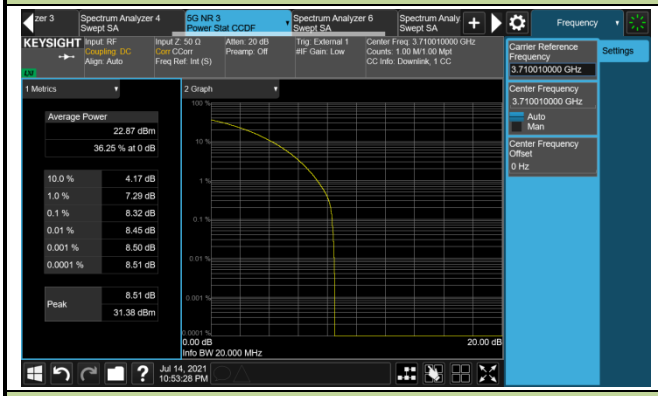
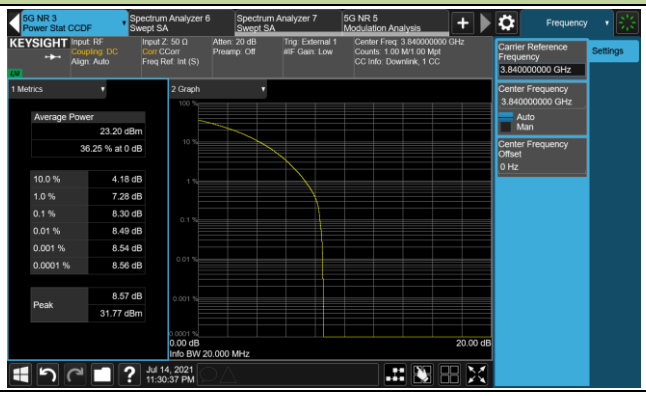
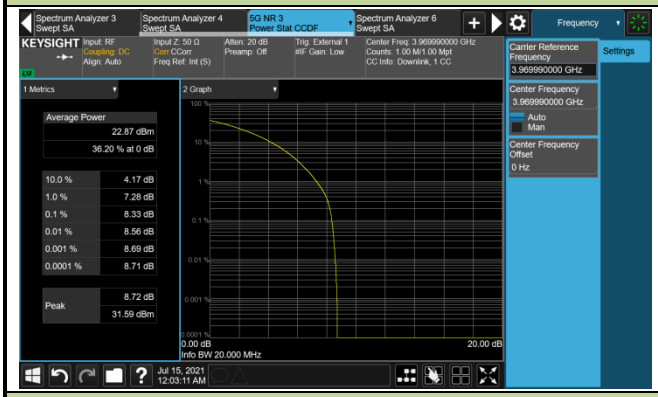
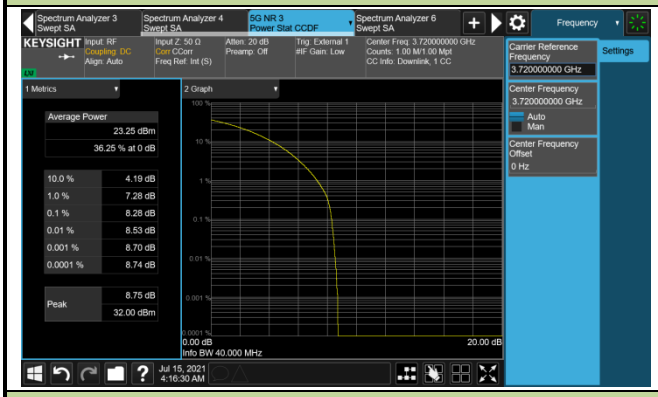
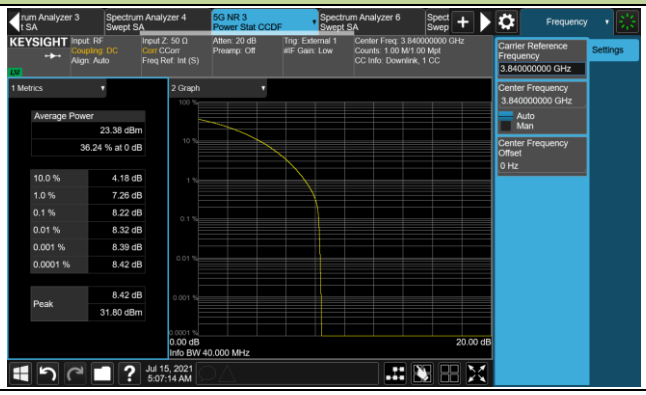
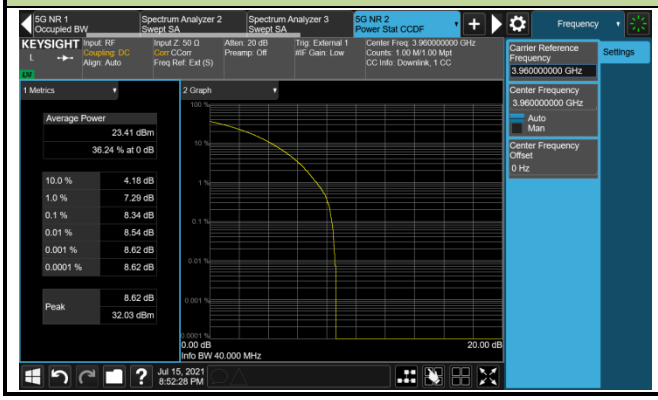
5.5.4.Test Setup

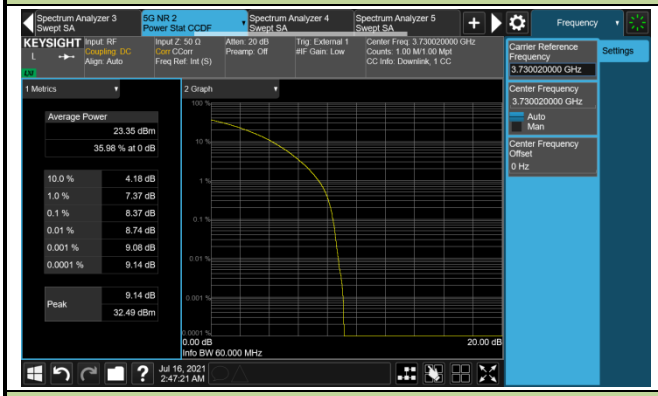
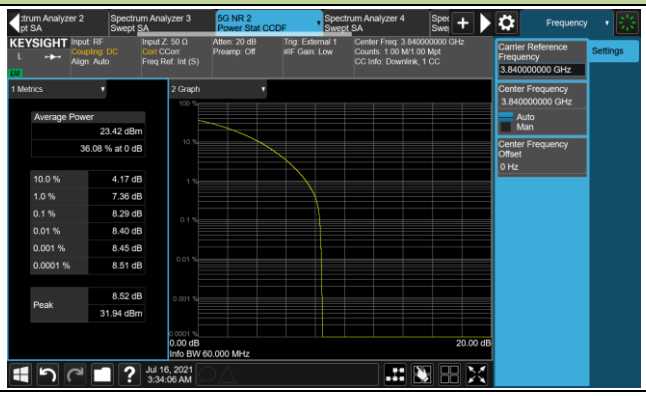
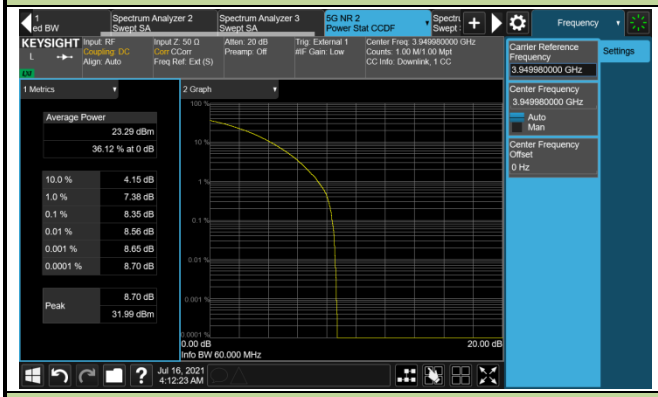


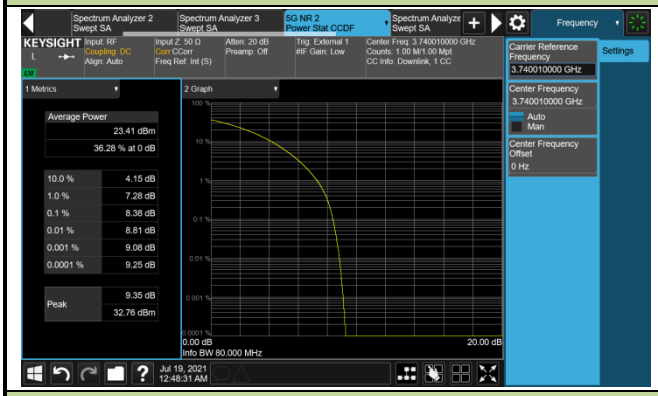
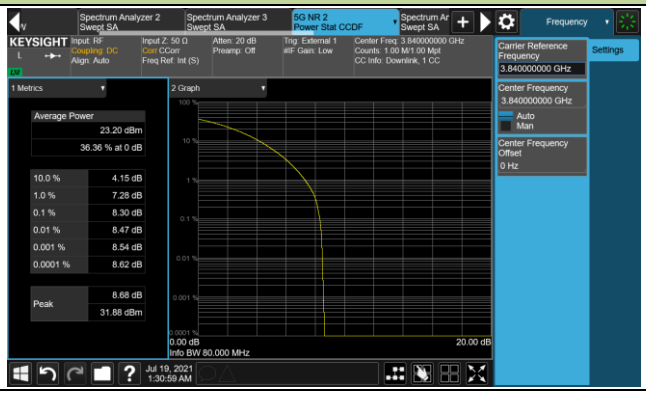
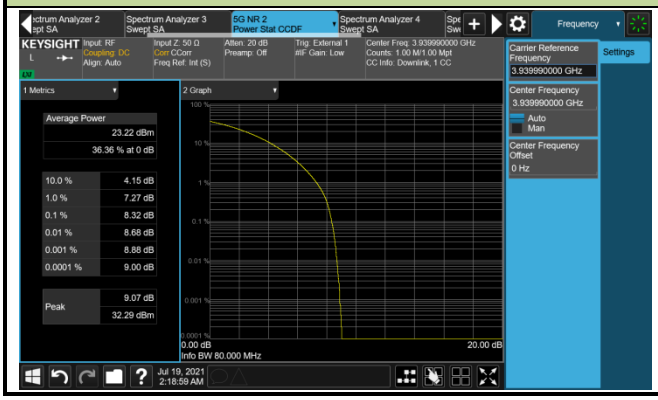
5.5.5.Test Result

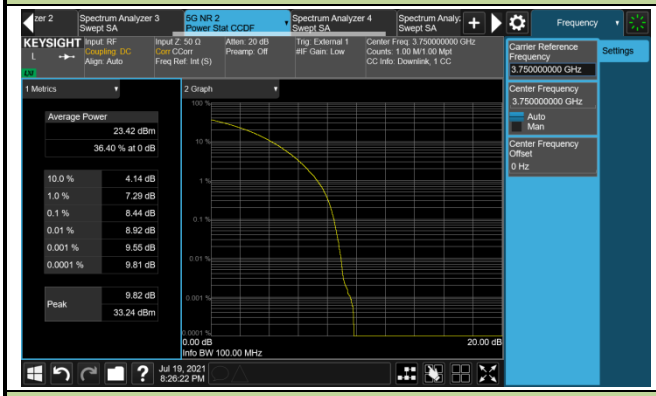
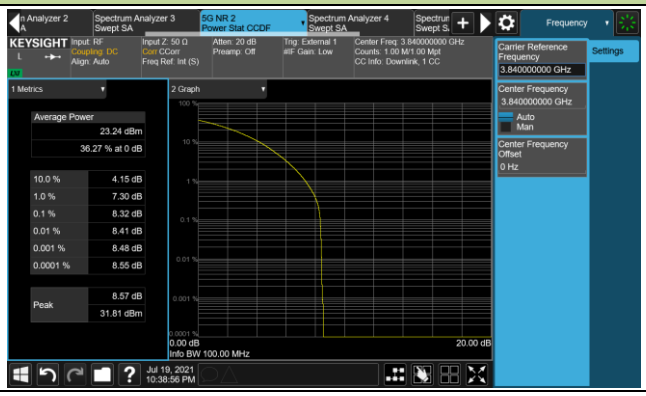
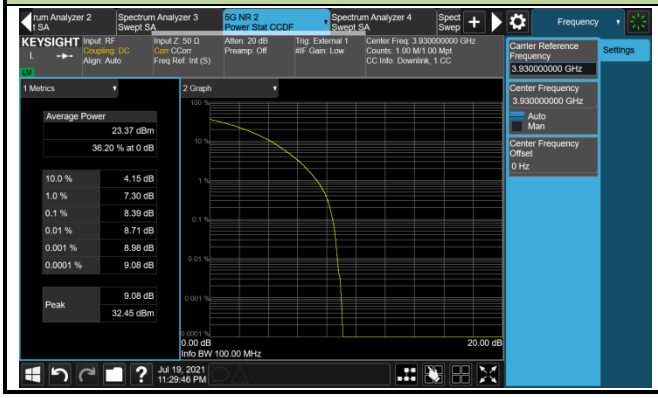
Test Engineer	Peter Xu	Test Site	SR2
Test Date	2021/07/14 ~ 2021/07/19	Test Configuration	n77

Frequency (MHz)	Channel Bandwidth (MHz)	Peak to Average Ratio (dB)	Limit (dB)	Result
3710.01	20	8.32	≤ 13.00	Pass
3840.00	20	8.30	≤ 13.00	Pass
3969.99	20	8.33	≤ 13.00	Pass
3720.00	40	8.28	≤ 13.00	Pass
3840.00	40	8.22	≤ 13.00	Pass
3960.00	40	8.34	≤ 13.00	Pass
3730.02	60	8.37	≤ 13.00	Pass
3840.00	60	8.29	≤ 13.00	Pass
3949.98	60	8.35	≤ 13.00	Pass
3740.01	80	8.38	≤ 13.00	Pass
3840.00	80	8.30	≤ 13.00	Pass
3939.99	80	8.32	≤ 13.00	Pass
3750.00	100	8.44	≤ 13.00	Pass
3840.00	100	8.32	≤ 13.00	Pass
3930.00	100	8.39	≤ 13.00	Pass

20MHz Channel Bandwidth	
3710.01 MHz	3840.00 MHz
	
3969.99 MHz	
	
40MHz Channel Bandwidth	
3720.00 MHz	3840.00 MHz
	
3960.00 MHz	
	

60MHz Channel Bandwidth	
3730.02 MHz	3840.00 MHz
	
3949.98 MHz	
	

80MHz Channel Bandwidth	
3740.01 MHz	3840.00 MHz
	
3939.99 MHz	
	

100MHz Channel Bandwidth	
3750.00 MHz	3840.00 MHz
	
3930.00 MHz	
	

5.6. Transmitter Unwanted Emission (Band Edge) Measurement

5.6.1.Test Limit

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 -13dBm.

This device can be impelement MIMO function, so the limit of spurious emissions needs to be reduced by 10*log($Numbers_{Ant}$) according to FCC KDB 662911 D01 guidance.

The limit is adjusted to -13 dBm - 10*log (4) = -19.02dBm

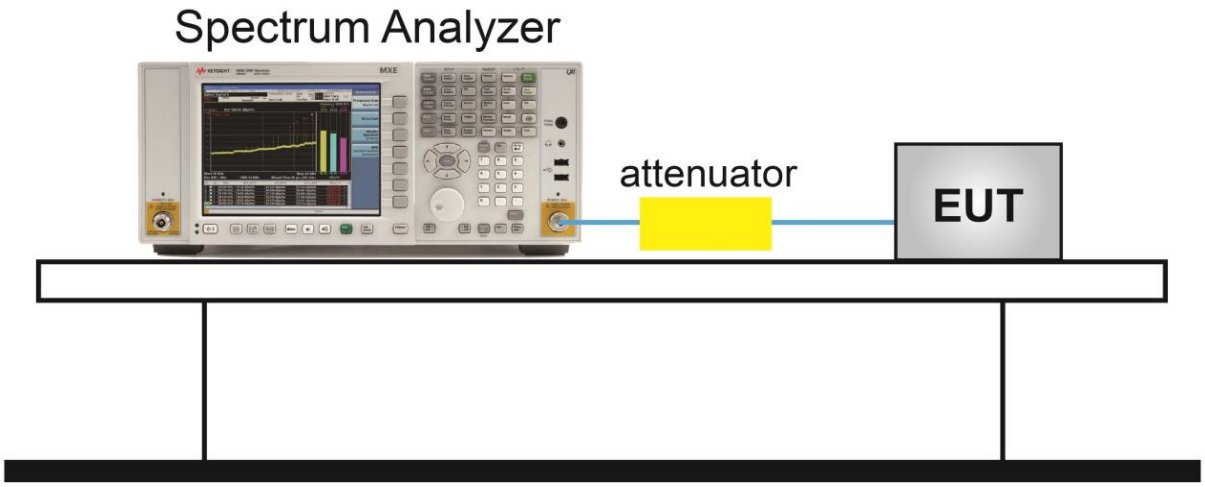
5.6.2.Test Procedure Used

ANSI C63.26-2015 - Section 5.7

5.6.3.Test Setting

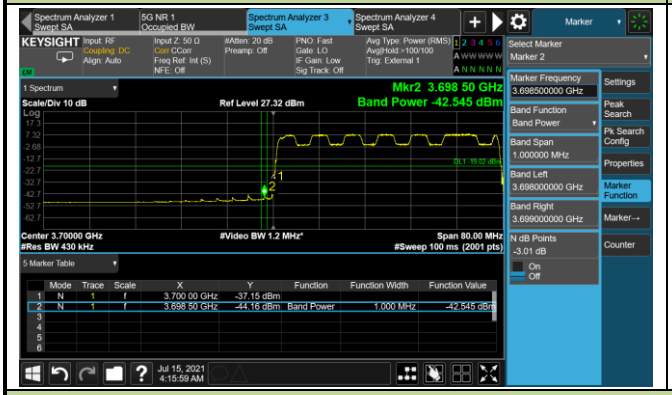
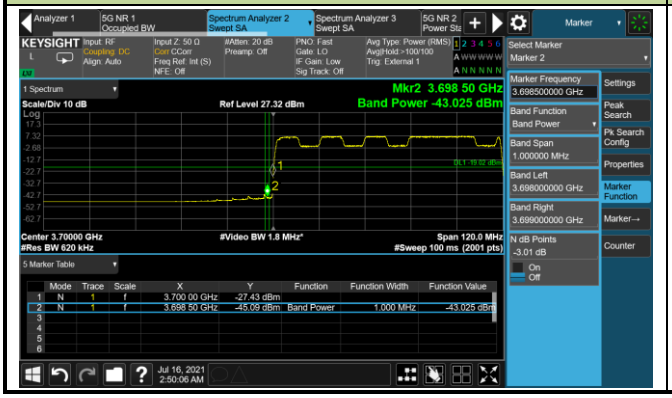
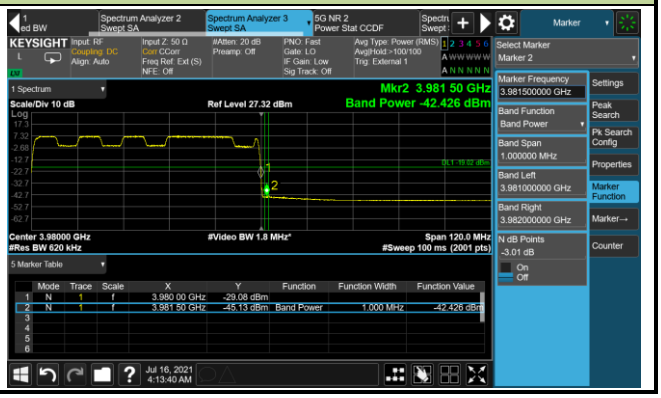
1. Set the analyzer frequency to low or high channel.
2. RBW = The nominal RBW shall be in the range of 1% of the anticipated OBW;
3. VBW ≥ 3*RBW
4. Sweep time = auto
5. Detector = power averaging (rms)
6. Set sweep trigger to “free run.”
7. User gate triggered such that the analyzer only sweeps when the device is transmitting at full power
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.
9. Used power integration when using a measurement bandwidth smaller than the specified bandwidth.

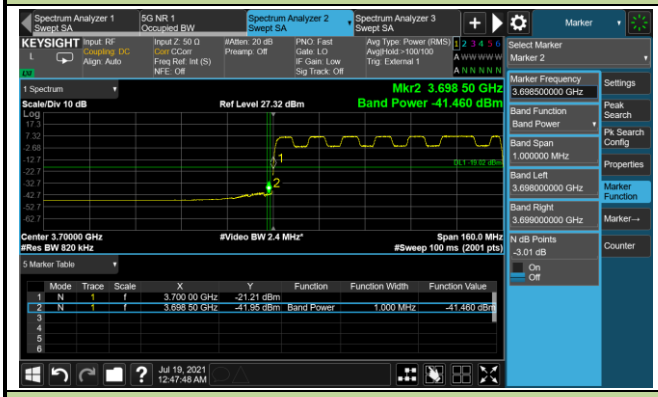
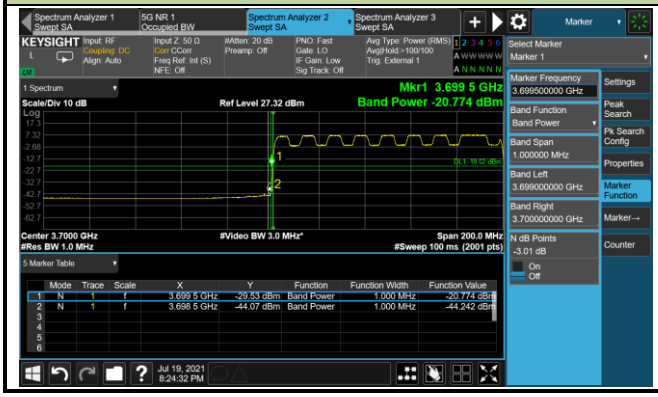
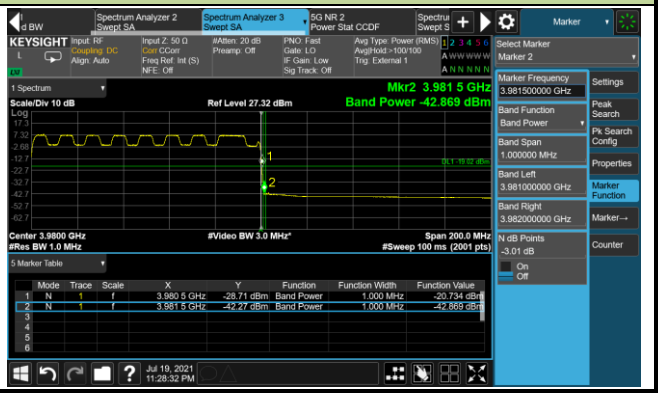
5.6.4.Test Setup

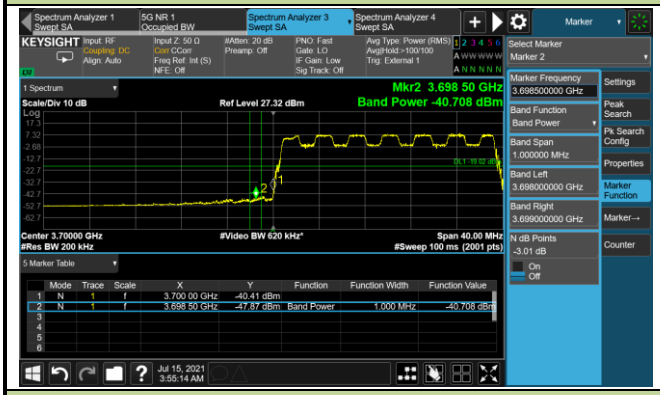
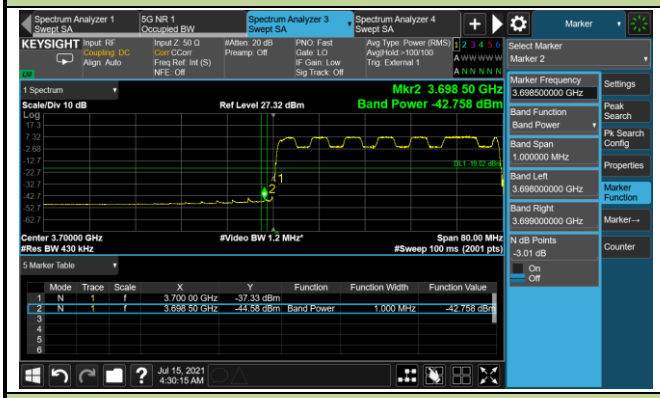
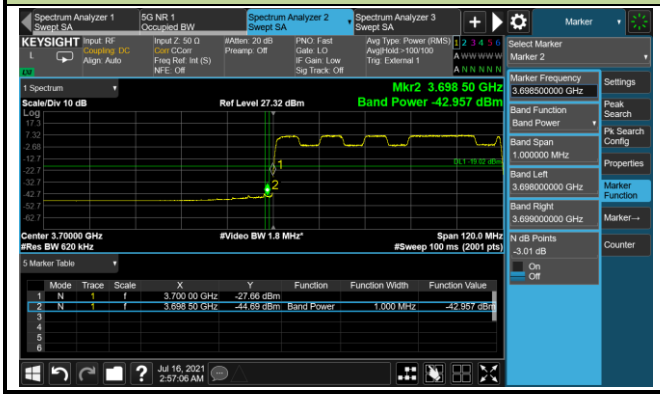
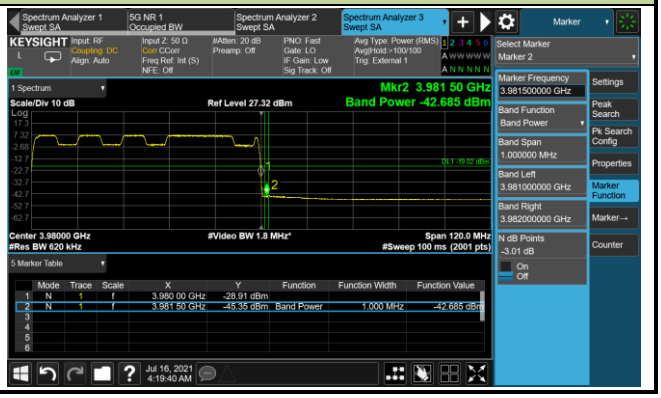


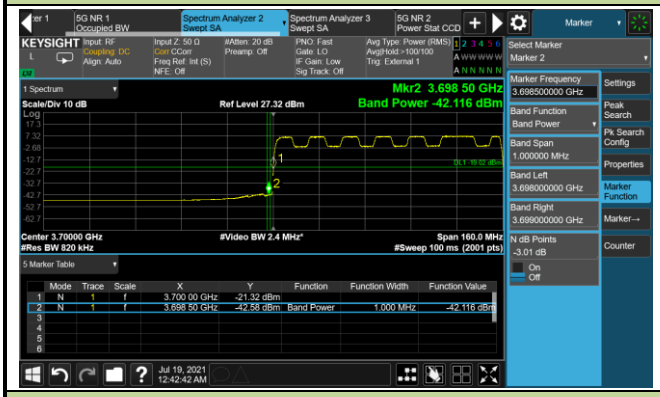
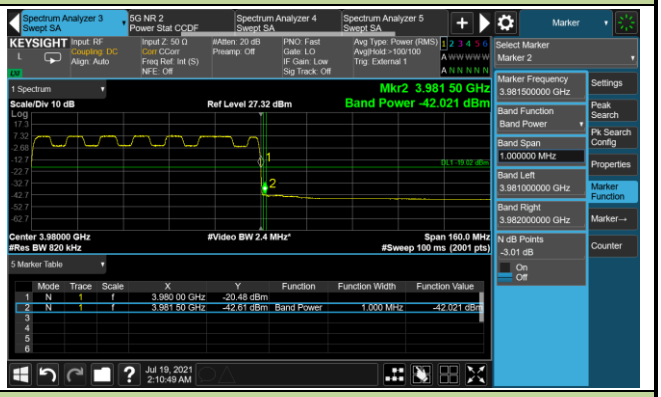
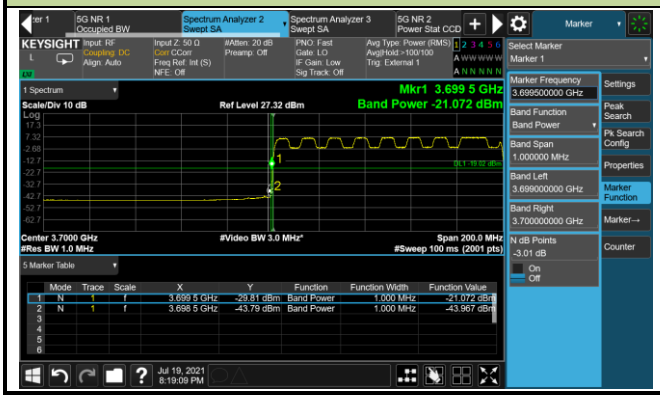
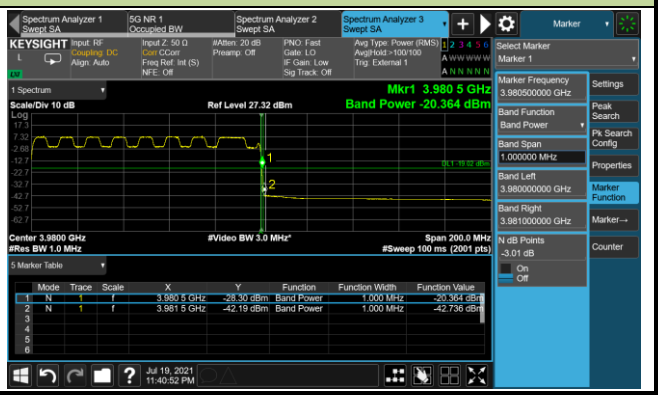
5.6.5.Test Result

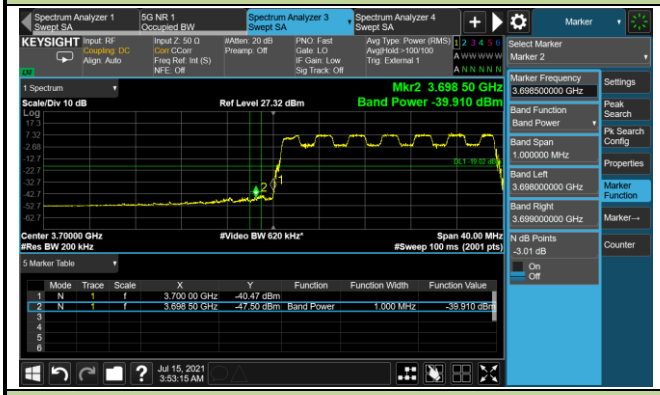
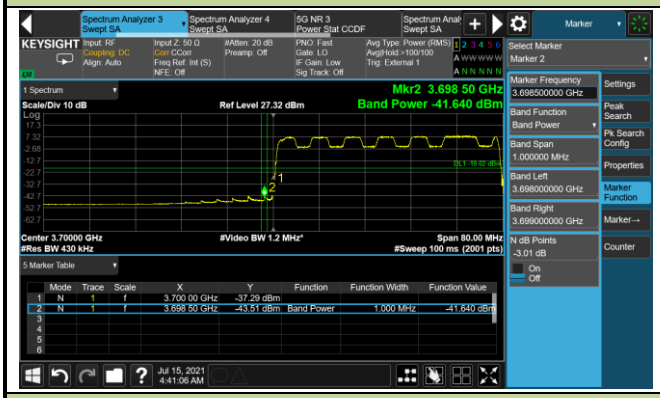
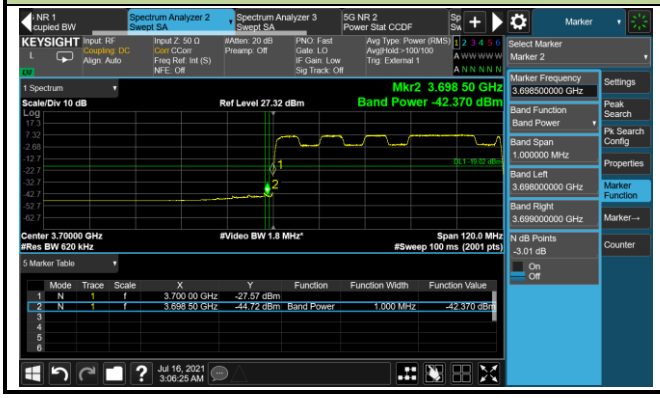
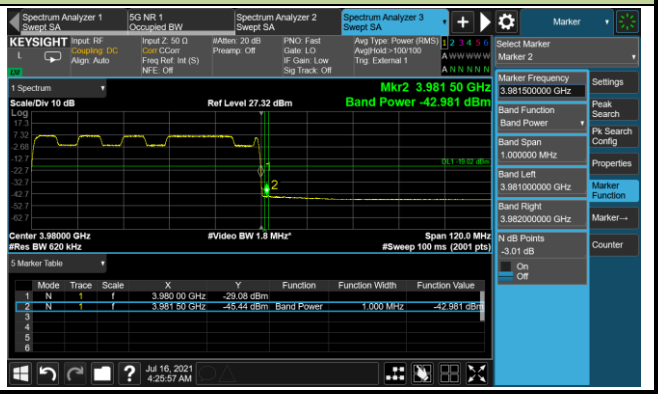
Test Engineer	Peter Xu	Test Site	SR2
Test Date	2021/07/15 ~ 2021/07/19	Test Configuration	n77 (Single Carrier)

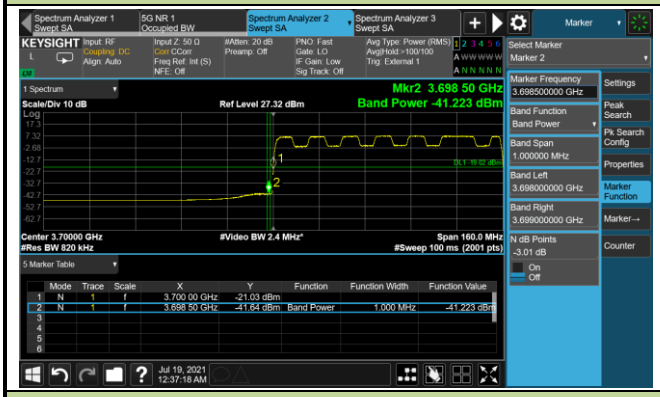
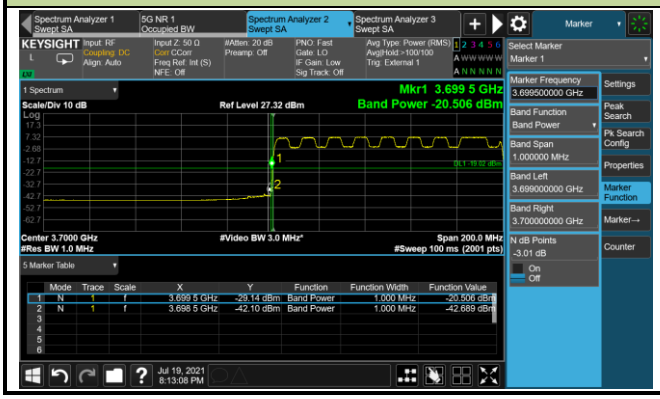
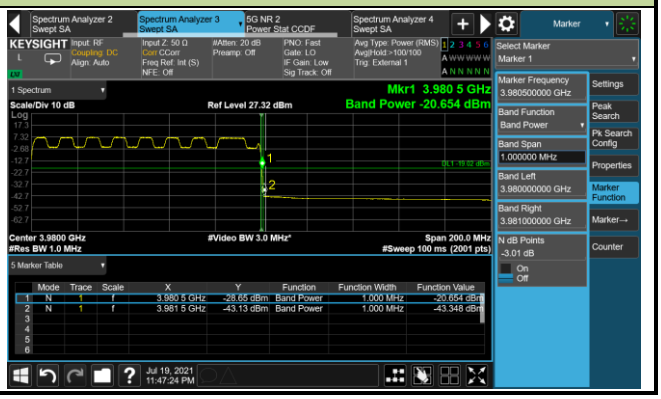
Unwanted Emission - Ant 1	
20MHz Channel Bandwidth	
3710.01 MHz	3969.99 MHz
	
40MHz Channel Bandwidth	
3720.00 MHz	3960.00 MHz
	
60MHz Channel Bandwidth	
3730.02 MHz	3949.98 MHz
	

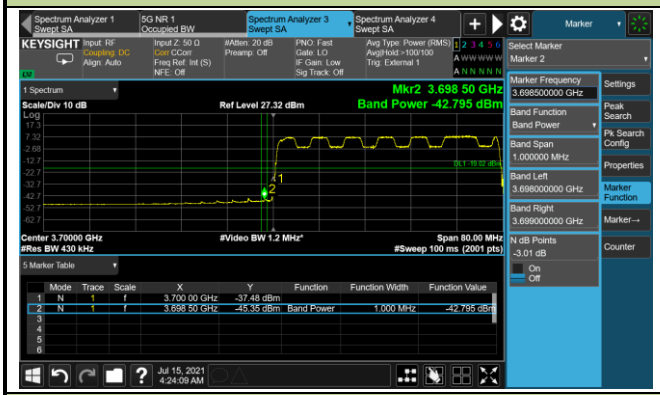
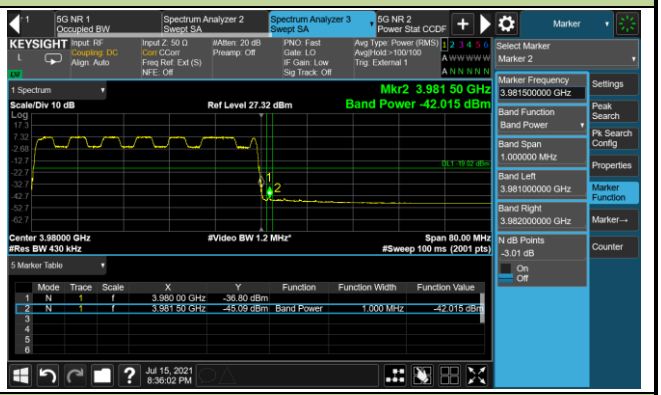
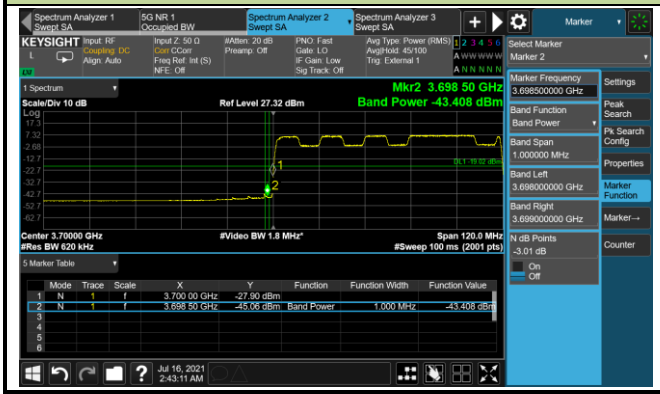
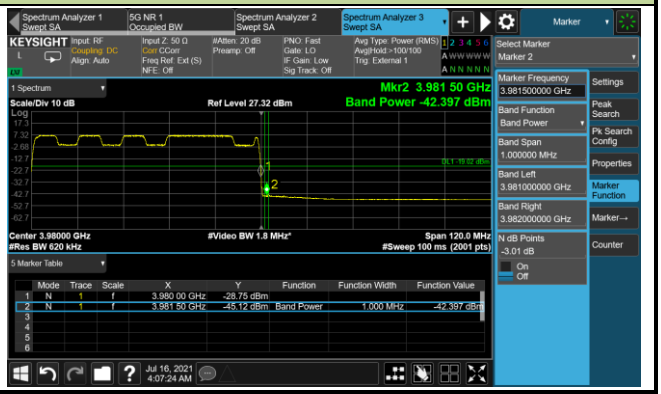
80MHz Channel Bandwidth	
3740.01 MHz	3939.99 MHz
	
100MHz Channel Bandwidth	
3750.00 MHz	3930.00 MHz
	

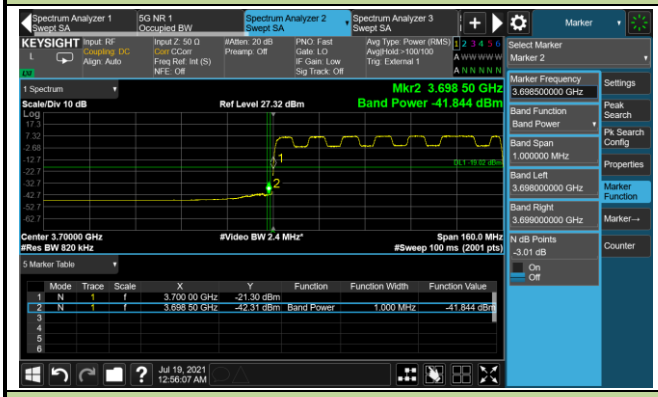
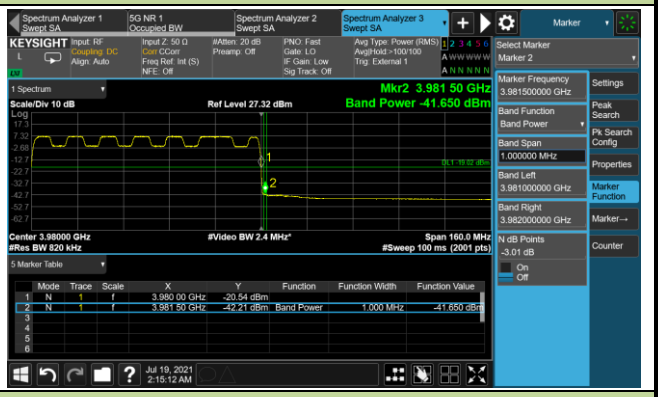
Unwanted Emission - Ant 2	
20MHz Channel Bandwidth	
3710.01 MHz	3969.99 MHz
	
40MHz Channel Bandwidth	
3720.00 MHz	3960.00 MHz
	
60MHz Channel Bandwidth	
3730.02 MHz	3949.98 MHz
	

80MHz Channel Bandwidth	
3740.01 MHz	3939.99 MHz
	
100MHz Channel Bandwidth	
3750.00 MHz	3930.00 MHz
	

Unwanted Emission - Ant 3	
20MHz Channel Bandwidth	
3710.01 MHz	3969.99 MHz
	
40MHz Channel Bandwidth	
3720.00 MHz	3960.00 MHz
	
60MHz Channel Bandwidth	
3730.02 MHz	3949.98 MHz
	

80MHz Channel Bandwidth	
3740.01 MHz	3939.99 MHz
	
100MHz Channel Bandwidth	
3750.00 MHz	3930.00 MHz
	

Unwanted Emission - Ant 4	
20MHz Channel Bandwidth	
3710.01 MHz	3969.99 MHz
	
40MHz Channel Bandwidth	
3720.00 MHz	3960.00 MHz
	
60MHz Channel Bandwidth	
3730.02 MHz	3949.98 MHz
	

80MHz Channel Bandwidth	
3740.01 MHz	3939.99 MHz
	
100MHz Channel Bandwidth	
3750.00 MHz	3930.00 MHz