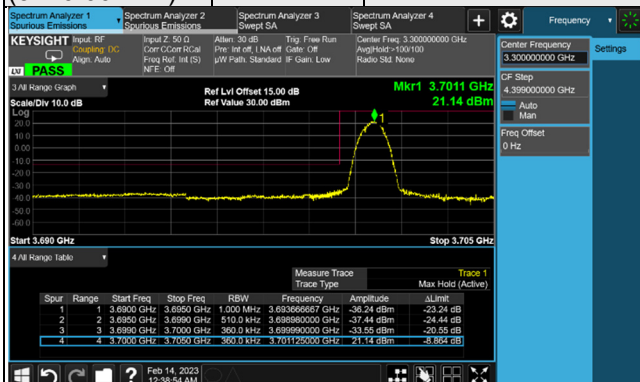


n77, Channel Bandwidth 40MHz

Channel 648000
(3720.00MHz)

$\pi/2$ BPSK

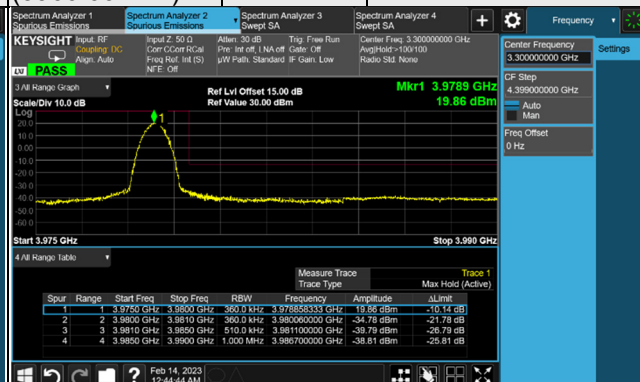
1 RB / 0 RB Offset



Channel 664000
(3960.00MHz)

$\pi/2$ BPSK

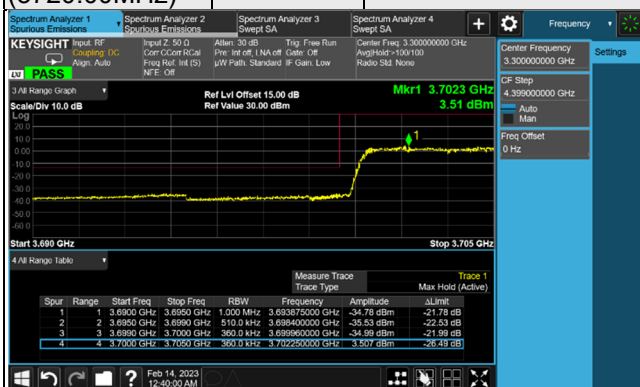
1 RB / 104 RB Offset



Channel 648000
(3720.00MHz)

$\pi/2$ BPSK

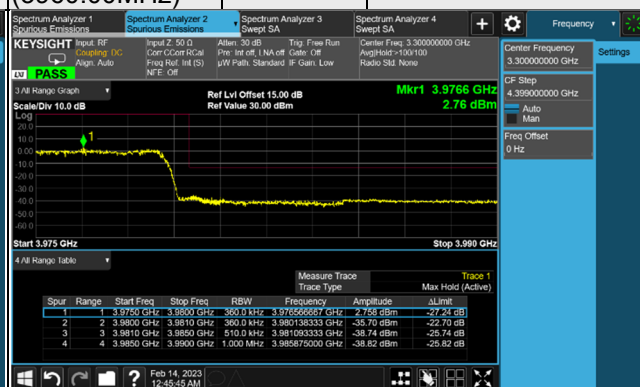
100 RB / 0 RB Offset



Channel 664000
(3960.00MHz)

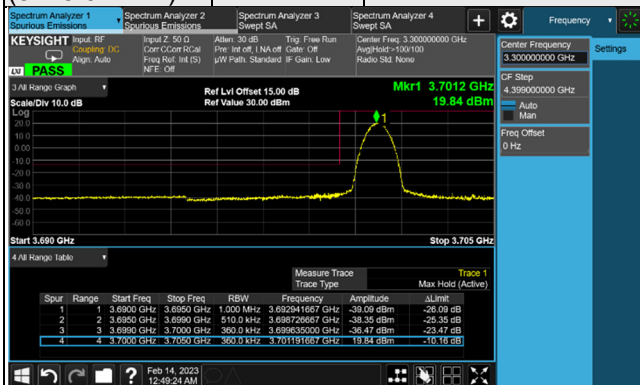
$\pi/2$ BPSK

100 RB / 0 RB Offset

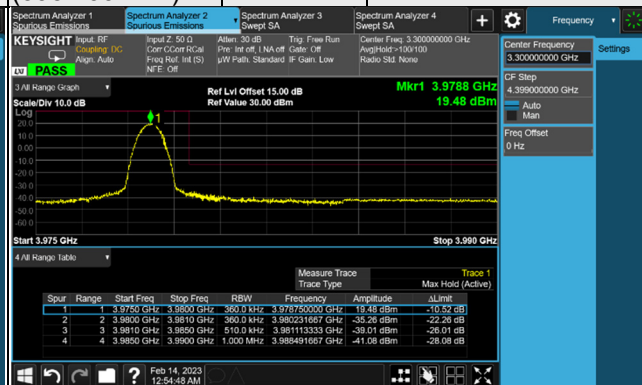


n77, Channel Bandwidth 50MHz

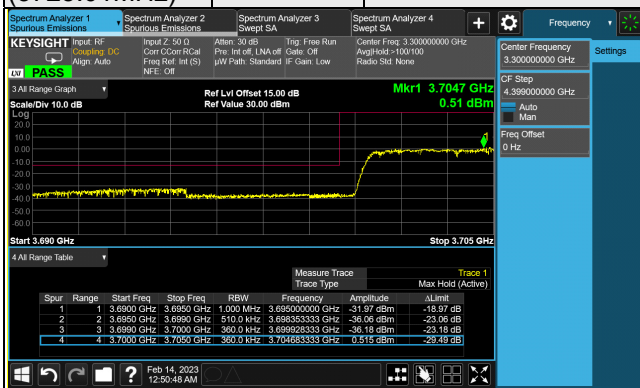
Channel 648334 (3725.01MHz) $\pi/2$ BPSK 1 RB / 0 RB Offset



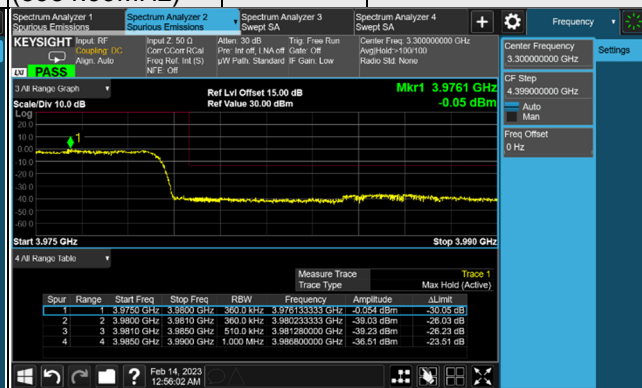
Channel 663666 (3954.99MHz) $\pi/2$ BPSK 1 RB / 131 RB Offset



Channel 648334 (3725.01MHz) $\pi/2$ BPSK 128 RB / 0 RB Offset

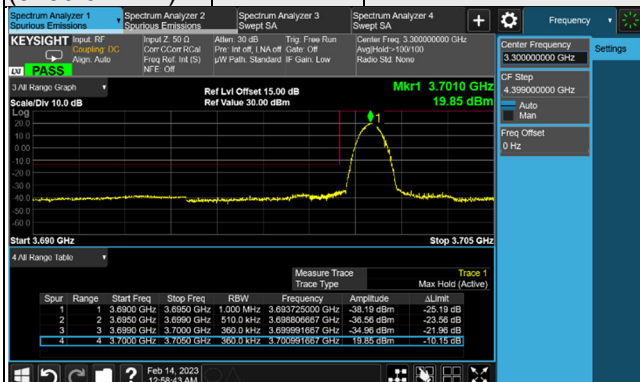


Channel 663666 (3954.99MHz) $\pi/2$ BPSK 128 RB / 0 RB Offset

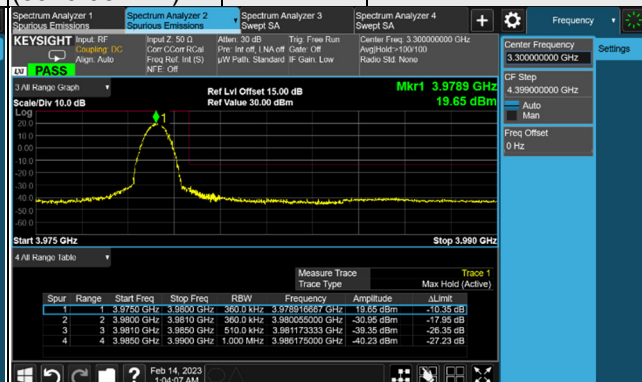


n77, Channel Bandwidth 60MHz

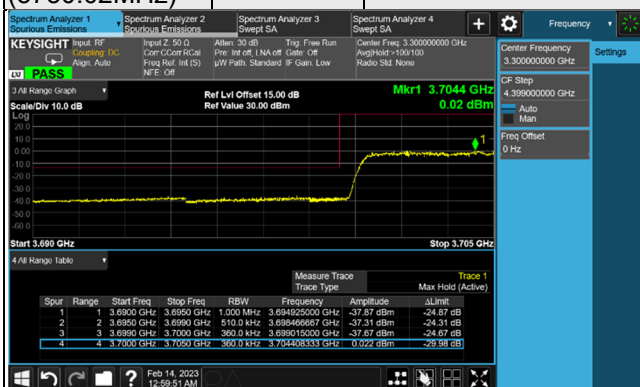
Channel 648668 (3730.02MHz) $\pi/2$ BPSK 1 RB / 0 RB Offset



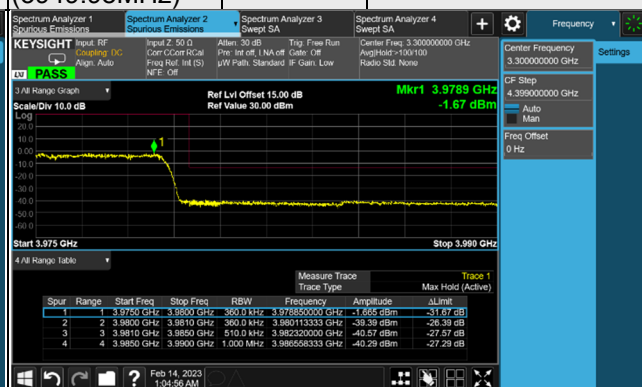
Channel 663332 (3949.98MHz) $\pi/2$ BPSK 1 RB / 160 RB Offset



Channel 648668 (3730.02MHz) $\pi/2$ BPSK 162 RB / 0 RB Offset

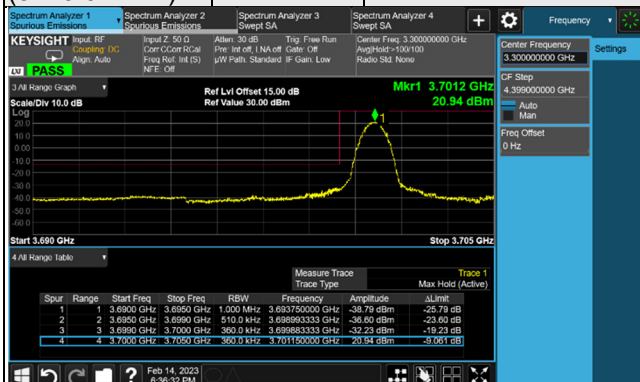


Channel 663332 (3949.98MHz) $\pi/2$ BPSK 162 RB / 0 RB Offset

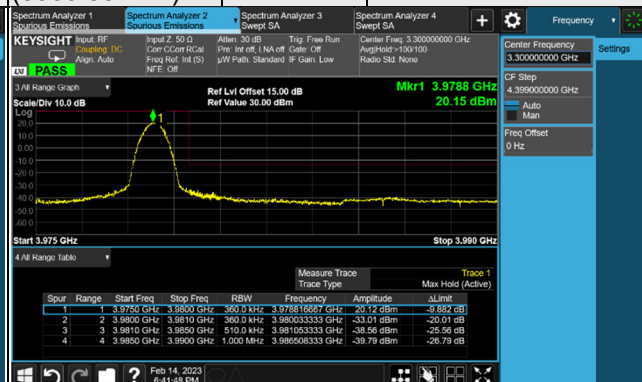


n77, Channel Bandwidth 80MHz

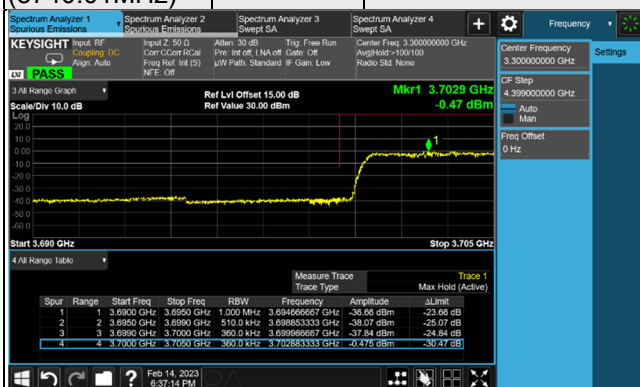
Channel 649334 (3740.01MHz) $\pi/2$ BPSK 1 RB / 0 RB Offset



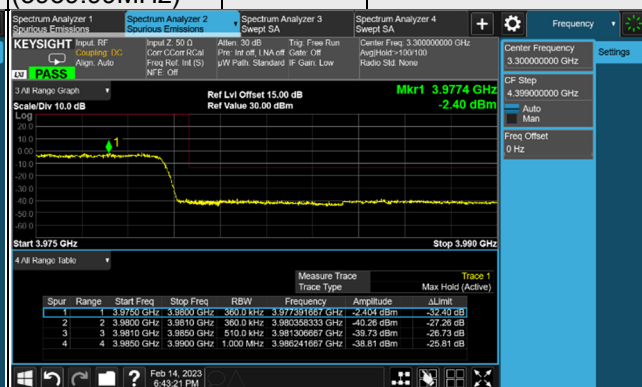
Channel 662666 (3939.99MHz) $\pi/2$ BPSK 1 RB / 215 RB Offset



Channel 649334 (3740.01MHz) $\pi/2$ BPSK 216 RB / 0 RB Offset



Channel 662666 (3939.99MHz) $\pi/2$ BPSK 216 RB / 0 RB Offset



n77, Channel Bandwidth 90MHz

Channel 649668
(3745.02MHz)

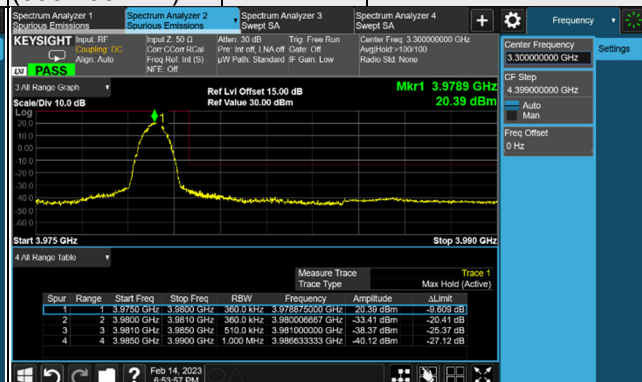
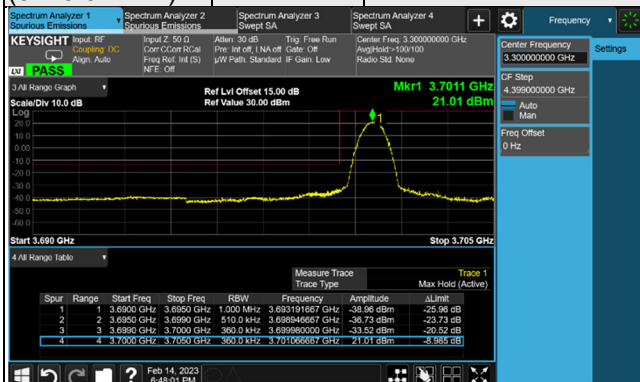
$\pi/2$ BPSK

1 RB / 0 RB Offset

Channel 662332
(3934.98MHz)

$\pi/2$ BPSK

1 RB / 243 RB Offset



Channel 649668
(3745.02MHz)

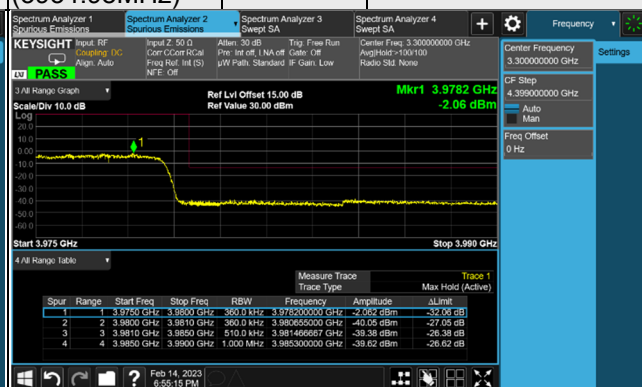
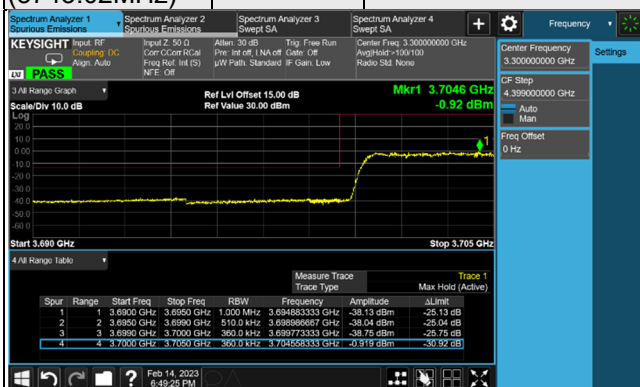
$\pi/2$ BPSK

243 RB / 0 RB Offset

Channel 662332
(3934.98MHz)

$\pi/2$ BPSK

243 RB / 0 RB Offset



n77, Channel Bandwidth 100MHz

Channel 650000
(3750.00MHz)

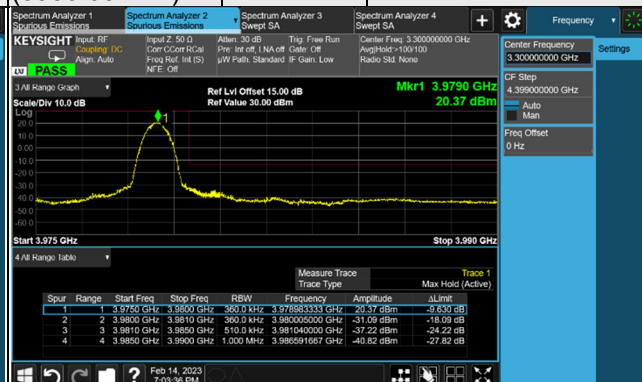
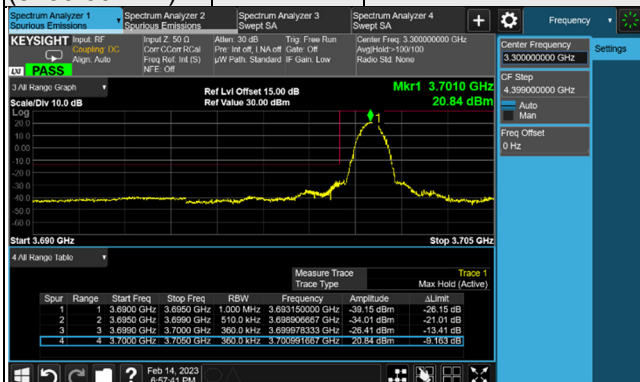
$\pi/2$ BPSK

1 RB / 0 RB Offset

Channel 662000
(3930.00MHz)

$\pi/2$ BPSK

1 RB / 271 RB Offset



Channel 650000
(3750.00MHz)

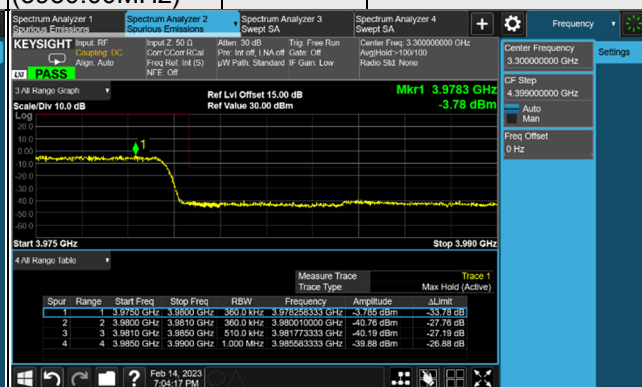
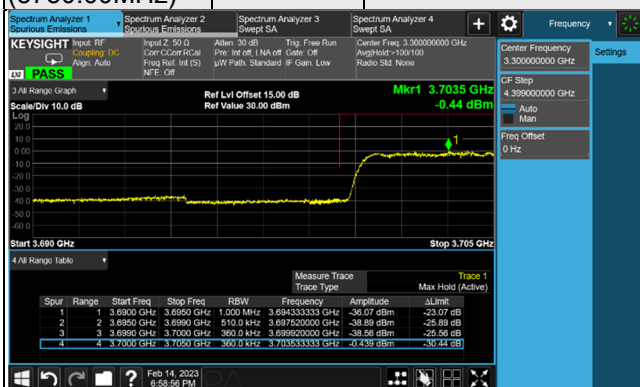
$\pi/2$ BPSK

270 RB / 0 RB Offset

Channel 662000
(3930.00MHz)

$\pi/2$ BPSK

270 RB / 0 RB Offset

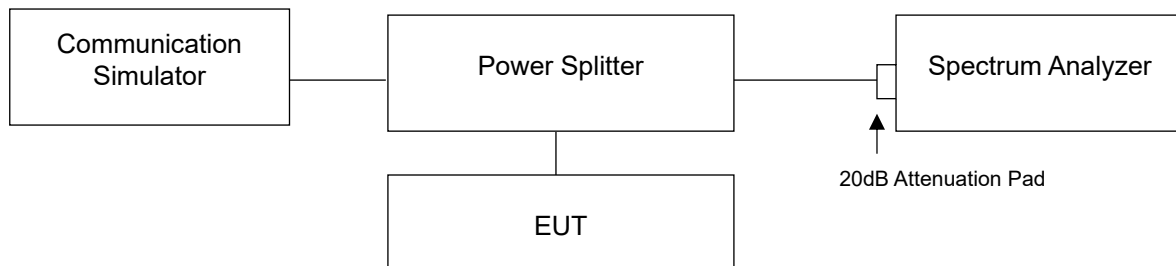


4.6 Peak to Average Ratio

4.6.1 Limits of Peak to Average Ratio Measurement

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

4.6.2 Test Setup



4.6.3 Test Procedures

- Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
- Set the number of counts to a value that stabilizes the measured CCDF curve;
- Record the maximum PAPR level associated with a probability of 0.1%.

4.6.4 Test Results

5GNR n77 (Part 270), Channel Bandwidth 10MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
647000	3705.00	4.03	6.11	6.41	7.11	7.55
656000	3840.00	3.97	5.89	6.71	6.78	7.25
665000	3975.00	3.83	5.52	6.35	6.42	7.44
5GNR n77 (Part 270), Channel Bandwidth 15MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
647168	3707.52	3.98	6.02	5.98	7.25	7.67
656000	3840.00	3.99	5.97	5.83	7.62	7.54
664832	3972.48	3.87	5.56	6.53	6.36	7.21
5GNR n77 (Part 270), Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
647334	3710.01	4.02	5.47	7.39	7.40	7.80
656000	3840.00	3.95	5.93	6.90	6.51	8.01
665666	3969.99	3.84	5.01	6.38	6.50	7.73
5GNR n77 (Part 270), Channel Bandwidth 40MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648000	3720.00	4.00	5.95	6.71	6.63	7.60
656000	3840.00	3.96	5.98	6.91	7.34	6.91
664000	3960.00	3.85	5.41	6.45	6.86	7.26
5GNR n77 (Part 270) Channel Bandwidth 50MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648334	3725.01	3.98	6.18	6.83	6.88	6.99
656000	3840.00	4.05	5.71	6.28	6.96	7.49
663666	3954.99	3.91	5.75	7.12	6.99	7.77

5GNR n77 (Part 270) Channel Bandwidth 60MHz

Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648668	3730.02	4.01	5.62	6.67	6.83	7.95
656000	3840.00	4.05	6.16	6.55	6.82	7.34
663332	3949.98	3.94	5.28	6.81	7.18	7.17

5GNR n77 (Part 270), Channel Bandwidth 80MHz

Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
649334	3740.01	4.00	5.74	6.46	6.99	7.60
656000	3840.00	4.02	6.07	6.92	6.92	7.30
662666	3939.99	3.88	5.44	6.30	7.08	7.36

5GNR n77 (Part 270), Channel Bandwidth 90MHz

Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
649558	3745.02	4.00	6.17	6.30	6.92	7.12
656000	3840.00	4.03	6.01	6.83	7.47	7.57
662332	3934.98	3.95	5.83	5.54	7.22	7.69

5GNR n77 (Part 270), Channel Bandwidth 100MHz

Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
650000	3750.00	4.03	6.21	6.99	7.18	6.97
656000	3840.00	4.02	5.56	6.48	7.18	7.25
662000	3930.00	4.01	5.65	7.04	6.98	7.37