



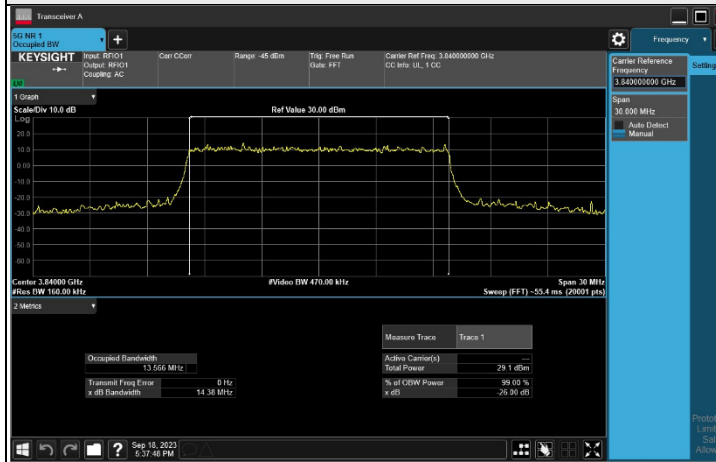
NR n77 SCS 30 kHz (3700-3980 MHz), Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	647168	3707.52	13.464	13.63
BPSK	656000	3840	13.470	13.76
BPSK	664832	3972.48	13.489	13.76
QPSK	647168	3707.52	13.522	14.38
QPSK	656000	3840	13.566	14.38
QPSK	664832	3972.48	13.527	14.35
16QAM	647168	3707.52	13.524	14.48
16QAM	656000	3840	13.560	14.56
16QAM	664832	3972.48	13.524	14.39
64QAM	647168	3707.52	13.551	14.42
64QAM	656000	3840	13.560	14.49
64QAM	664832	3972.48	13.546	14.47
256QAM	647168	3707.52	13.530	14.39
256QAM	656000	3840	13.531	14.40
256QAM	664832	3972.48	13.555	14.44

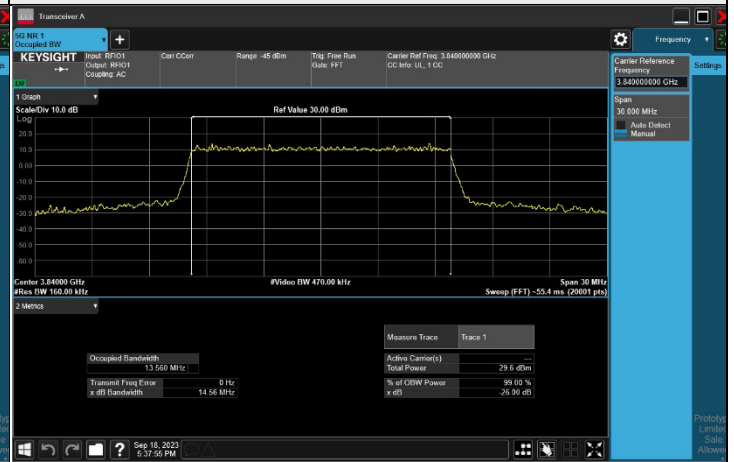
Spectrum Plot of Worst Value

Occupied bandwidth

26 dB Bandwidth



QPSK CH 656000 (3840 MHz)

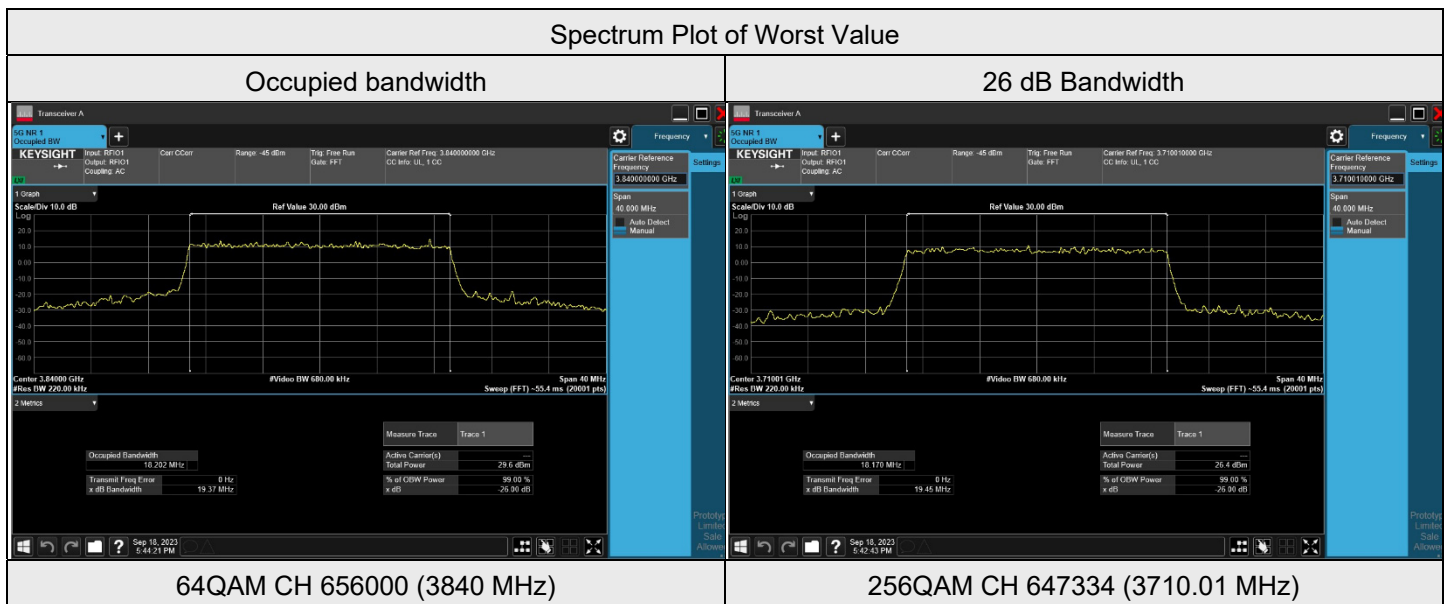


16QAM CH 656000 (3840 MHz)



NR n77 SCS 30 kHz (3700-3980 MHz), Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	647334	3710.01	17.985	19.23
BPSK	656000	3840	17.977	19.10
BPSK	664666	3969.99	17.949	19.13
QPSK	647334	3710.01	18.126	19.12
QPSK	656000	3840	18.153	19.24
QPSK	664666	3969.99	18.124	19.25
16QAM	647334	3710.01	18.152	19.39
16QAM	656000	3840	18.157	19.18
16QAM	664666	3969.99	18.157	19.34
64QAM	647334	3710.01	18.190	19.22
64QAM	656000	3840	18.202	19.37
64QAM	664666	3969.99	18.190	19.31
256QAM	647334	3710.01	18.170	19.45
256QAM	656000	3840	18.161	19.33
256QAM	664666	3969.99	18.153	19.30

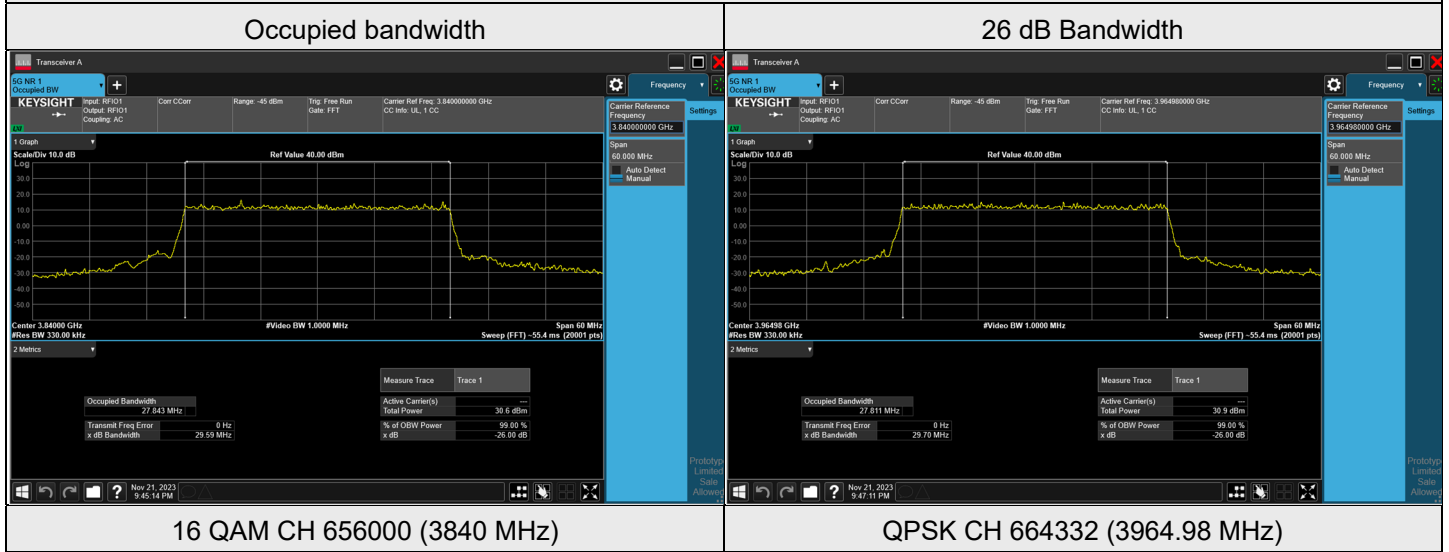




NR n77 SCS 30 kHz (3700-3980 MHz), Channel Bandwidth: 30 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	647668	3715.02	27.627	28.71
BPSK	656000	3840	27.596	28.55
BPSK	664332	3964.98	27.559	28.75
QPSK	647668	3715.02	27.804	29.49
QPSK	656000	3840	27.805	29.49
QPSK	664332	3964.98	27.811	29.70
16QAM	647668	3715.02	27.740	29.44
16QAM	656000	3840	27.843	29.59
16QAM	664332	3964.98	27.757	29.47
64QAM	647668	3715.02	27.758	29.59
64QAM	656000	3840	27.758	29.45
64QAM	664332	3964.98	27.828	29.66
256QAM	647668	3715.02	27.811	29.21
256QAM	656000	3840	27.817	29.53
256QAM	664332	3964.98	27.771	29.29

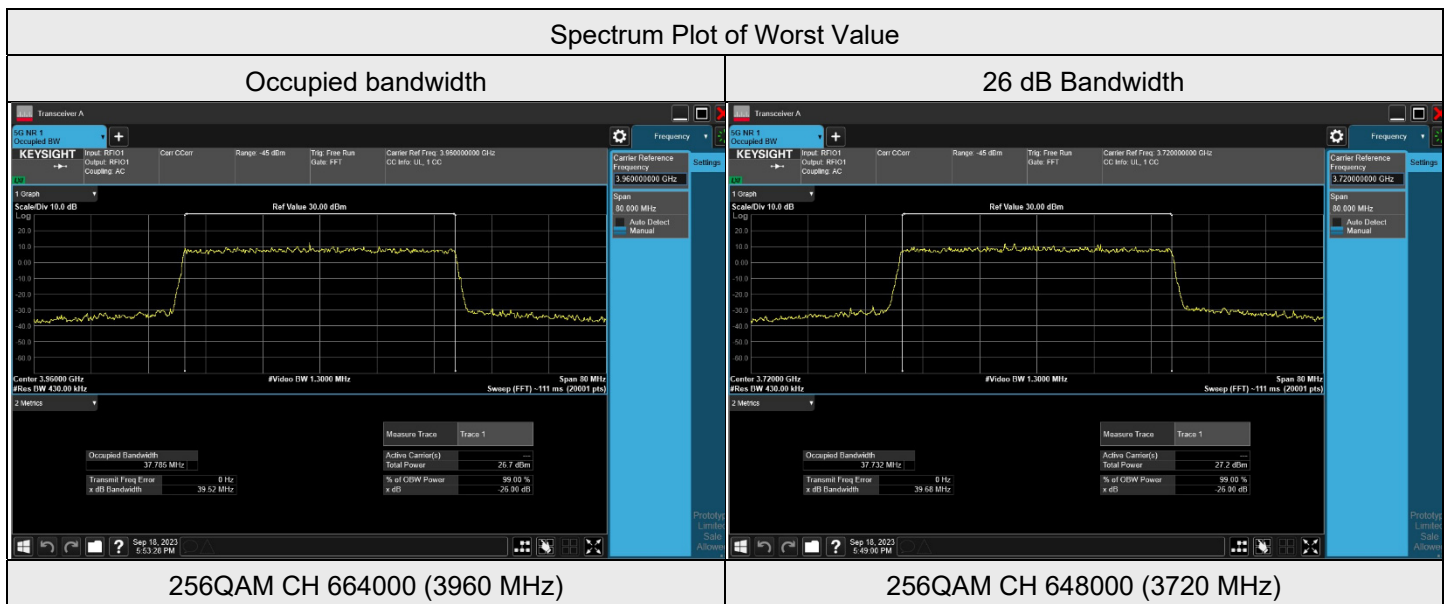
Spectrum Plot of Worst Value





NR n77 SCS 30 kHz (3700-3980 MHz), Channel Bandwidth: 40 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	648000	3720	37.328	37.56
BPSK	656000	3840	37.353	37.34
BPSK	664000	3960	37.321	37.52
QPSK	648000	3720	37.696	39.43
QPSK	656000	3840	37.706	39.49
QPSK	664000	3960	37.728	39.59
16QAM	648000	3720	37.722	39.57
16QAM	656000	3840	37.770	39.56
16QAM	664000	3960	37.761	39.47
64QAM	648000	3720	37.683	39.67
64QAM	656000	3840	37.706	39.65
64QAM	664000	3960	37.674	39.56
256QAM	648000	3720	37.732	39.68
256QAM	656000	3840	37.748	39.57
256QAM	664000	3960	37.785	39.52





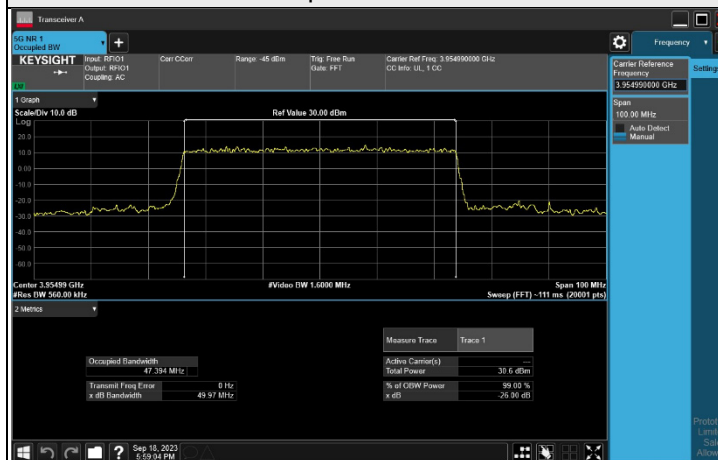
NR n77 SCS 30 kHz (3700-3980 MHz), Channel Bandwidth: 50 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	648334	3725.01	46.853	48.27
BPSK	656000	3840	46.914	47.90
BPSK	663666	3954.99	47.042	48.33
QPSK	648334	3725.01	47.393	49.70
QPSK	656000	3840	47.383	49.71
QPSK	663666	3954.99	47.394	49.97
16QAM	648334	3725.01	47.251	49.89
16QAM	656000	3840	47.273	49.84
16QAM	663666	3954.99	47.245	49.77
64QAM	648334	3725.01	47.332	49.61
64QAM	656000	3840	47.305	49.59
64QAM	663666	3954.99	47.381	49.71
256QAM	648334	3725.01	47.301	49.95
256QAM	656000	3840	47.350	49.90
256QAM	663666	3954.99	47.322	49.77

Spectrum Plot of Worst Value

Occupied bandwidth

26 dB Bandwidth



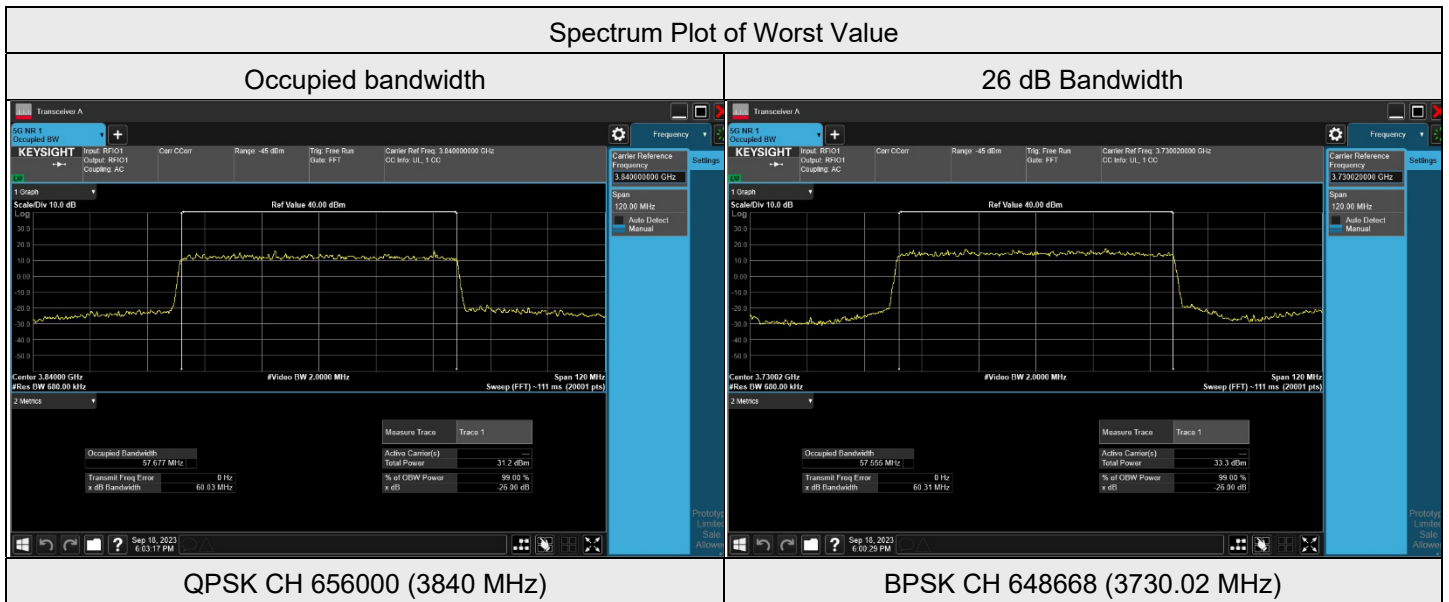
QPSK CH 663666 (3954.99 MHz)

QPSK CH 663666 (3954.99 MHz)



NR n77 SCS 30 kHz (3700-3980 MHz), Channel Bandwidth: 60 MHz

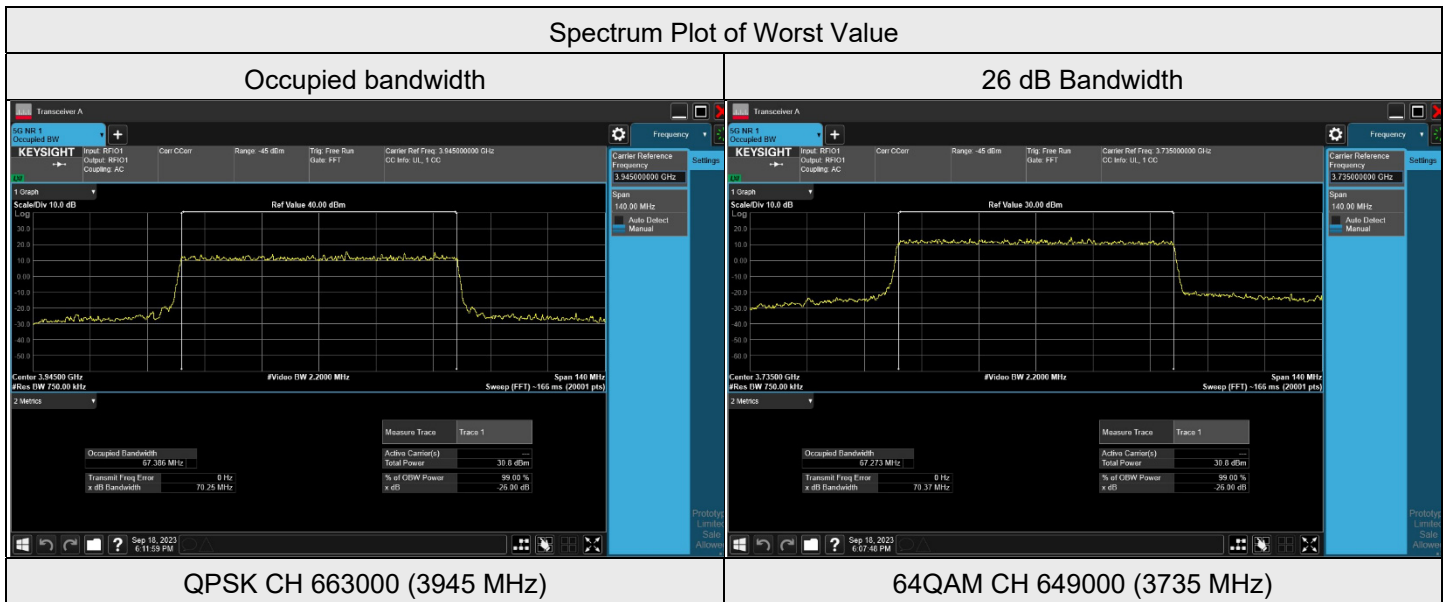
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	648668	3730.02	57.555	60.31
BPSK	656000	3840	57.641	60.15
BPSK	663332	3949.98	57.627	60.05
QPSK	648668	3730.02	57.592	59.87
QPSK	656000	3840	57.677	60.03
QPSK	663332	3949.98	57.613	59.94
16QAM	648668	3730.02	57.570	60.01
16QAM	656000	3840	57.590	60.02
16QAM	663332	3949.98	57.520	59.91
64QAM	648668	3730.02	57.593	59.94
64QAM	656000	3840	57.638	60.02
64QAM	663332	3949.98	57.665	60.03
256QAM	648668	3730.02	57.617	60.07
256QAM	656000	3840	57.675	60.12
256QAM	663332	3949.98	57.604	59.85





NR n77 SCS 30 kHz (3700-3980 MHz), Channel Bandwidth: 70 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	649000	3735	66.489	67.23
BPSK	656000	3840	66.769	67.41
BPSK	663000	3945	66.686	67.48
QPSK	649000	3735	67.230	70.27
QPSK	656000	3840	67.260	70.35
QPSK	663000	3945	67.386	70.25
16QAM	649000	3735	67.287	70.34
16QAM	656000	3840	67.326	70.20
16QAM	663000	3945	67.161	69.85
64QAM	649000	3735	67.273	70.37
64QAM	656000	3840	67.164	70.19
64QAM	663000	3945	67.258	70.37
256QAM	649000	3735	67.205	70.02
256QAM	656000	3840	67.244	70.30
256QAM	663000	3945	67.233	69.93





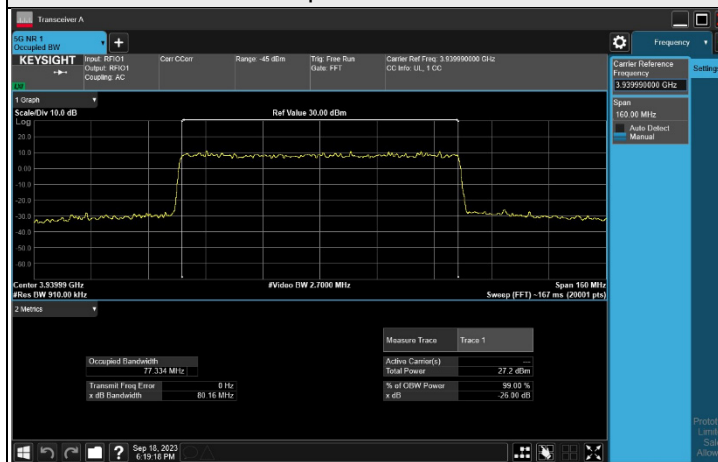
NR n77 SCS 30 kHz (3700-3980 MHz), Channel Bandwidth: 80 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	649334	3740.01	77.092	79.94
BPSK	656000	3840	77.077	79.81
BPSK	662666	3939.99	77.168	80.00
QPSK	649334	3740.01	77.170	80.18
QPSK	656000	3840	77.190	80.18
QPSK	662666	3939.99	77.123	80.40
16QAM	649334	3740.01	77.236	80.27
16QAM	656000	3840	77.223	80.24
16QAM	662666	3939.99	77.219	80.38
64QAM	649334	3740.01	77.298	80.15
64QAM	656000	3840	77.281	80.11
64QAM	662666	3939.99	77.281	80.12
256QAM	649334	3740.01	77.014	80.14
256QAM	656000	3840	77.304	80.15
256QAM	662666	3939.99	77.334	80.16

Spectrum Plot of Worst Value

Occupied bandwidth

26 dB Bandwidth



256QAM CH 662666 (3939.99 MHz)

QPSK CH 662666 (3939.99 MHz)



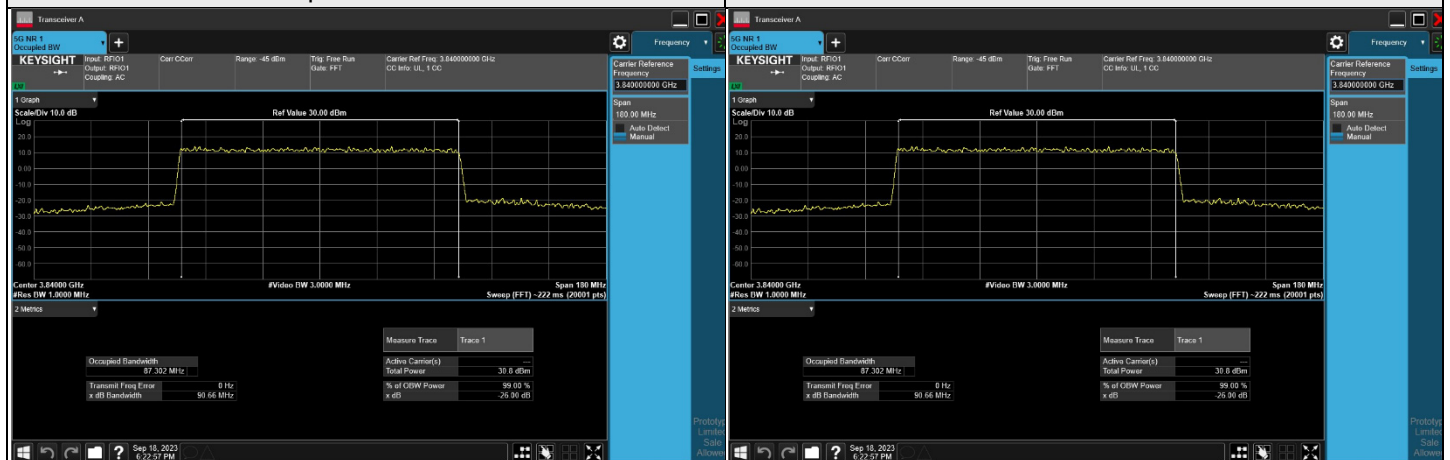
NR n77 SCS 30 kHz (3700-3980 MHz), Channel Bandwidth: 90 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	649668	3745.02	86.659	89.62
BPSK	656000	3840	86.784	89.72
BPSK	662332	3934.98	86.871	89.89
QPSK	649668	3745.02	87.066	90.26
QPSK	656000	3840	87.086	90.20
QPSK	662332	3934.98	87.250	90.58
16QAM	649668	3745.02	87.104	90.20
16QAM	656000	3840	87.067	90.24
16QAM	662332	3934.98	87.075	90.54
64QAM	649668	3745.02	87.145	90.49
64QAM	656000	3840	87.302	90.66
64QAM	662332	3934.98	87.162	90.50
256QAM	649668	3745.02	86.925	90.20
256QAM	656000	3840	87.074	90.35
256QAM	662332	3934.98	87.213	90.53

Spectrum Plot of Worst Value

Occupied bandwidth

26 dB Bandwidth



64QAM CH 656000 (3840 MHz)

64QAM CH 656000 (3840 MHz)



NR n77 SCS 30 kHz (3700-3980 MHz), Channel Bandwidth: 100 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	650000	3750	96.385	99.74
BPSK	656000	3840	96.060	99.59
BPSK	662000	3930	96.143	99.83
QPSK	650000	3750	97.109	100.5
QPSK	656000	3840	96.888	100.7
QPSK	662000	3930	96.806	100.6
16QAM	650000	3750	96.990	100.5
16QAM	656000	3840	97.028	100.8
16QAM	662000	3930	96.989	100.5
64QAM	650000	3750	97.264	100.5
64QAM	656000	3840	97.266	100.7
64QAM	662000	3930	97.182	100.7
256QAM	650000	3750	96.805	100.5
256QAM	656000	3840	96.824	100.5
256QAM	662000	3930	97.160	100.7

Spectrum Plot of Worst Value

Occupied bandwidth

26 dB Bandwidth



64QAM CH 656000 (3840 MHz)

16QAM CH 656000 (3840 MHz)



7.5 Conducted Spurious Emissions

Input Power:	4.7 Vdc	Environmental Conditions:	22°C, 73% RH	Tested By:	Willy Cheng
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7.5.1 NR n2 SCS 15 kHz

NR n2 SCS 15 kHz, Channel Bandwidth: 5 MHz



Channel 370500 (1852.5 MHz)



Channel 376000 (1880 MHz)

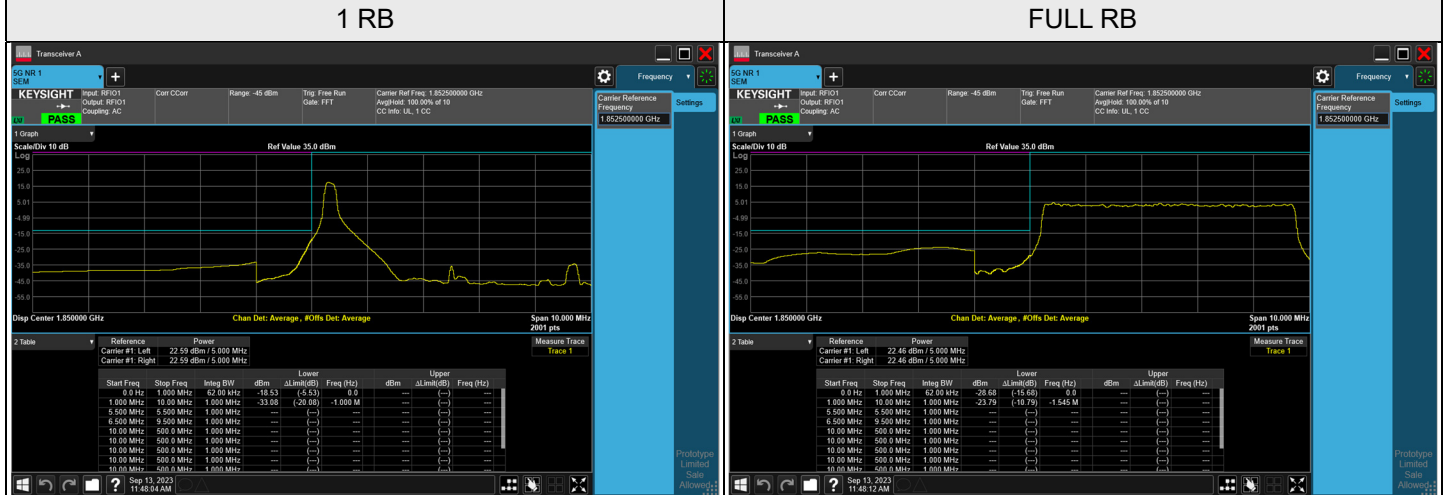


Channel 381500 (1907.5 MHz)

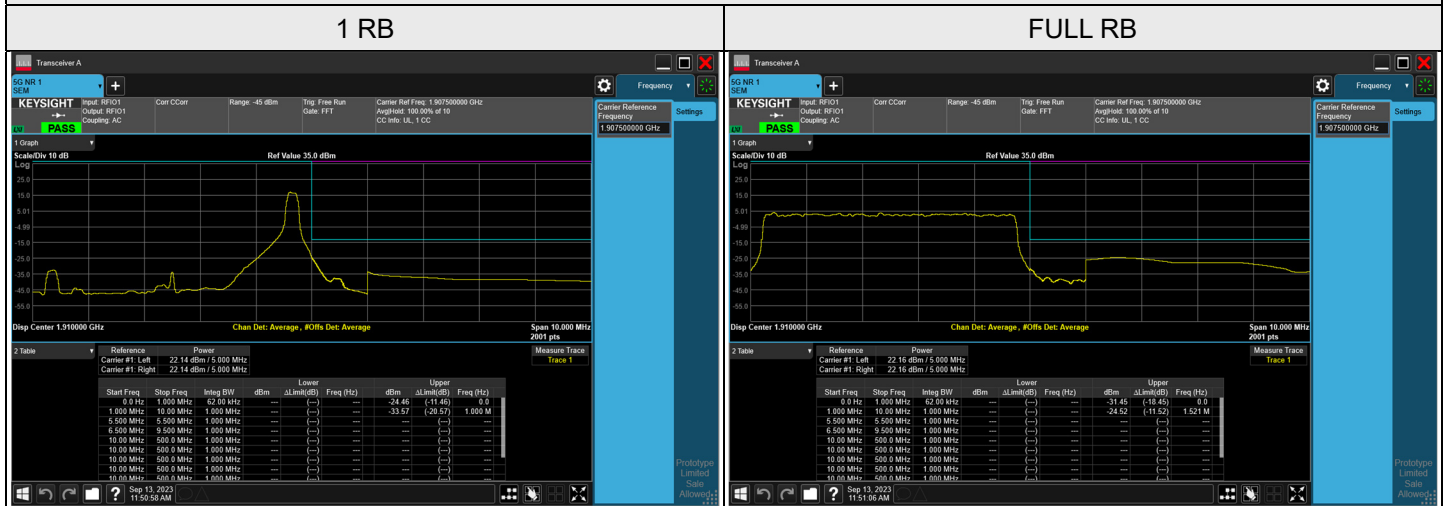
Note: The signal at 9 kHz is IF signal from spectrum analyzer.

NR n2 SCS 15 kHz, Channel Bandwidth: 5 MHz

Channel 370500(1852.5 MHz)

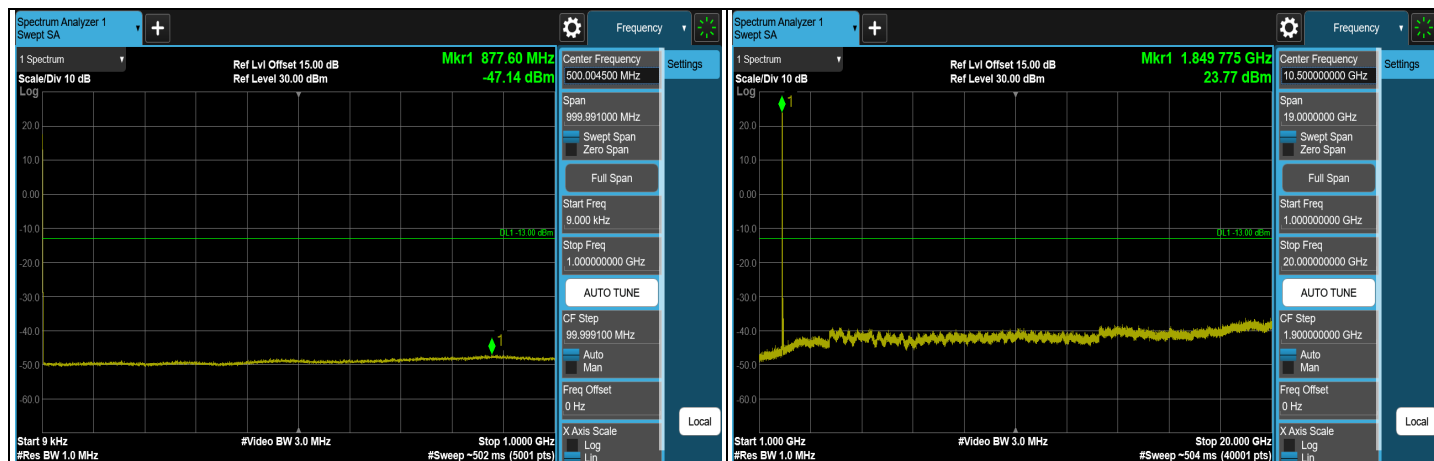


Channel 381500(1907.5 MHz)

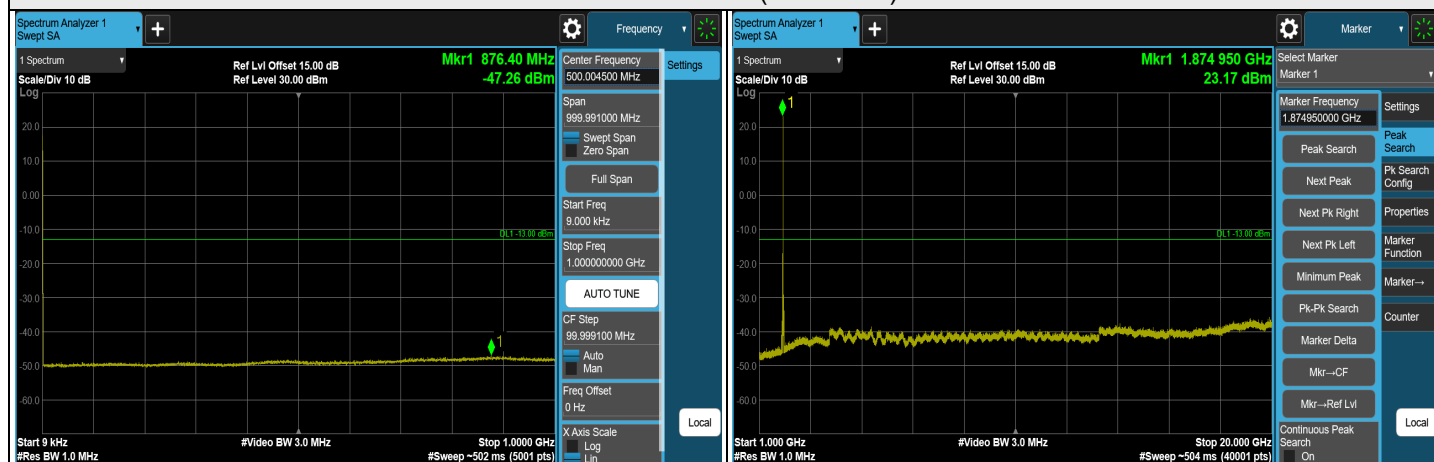




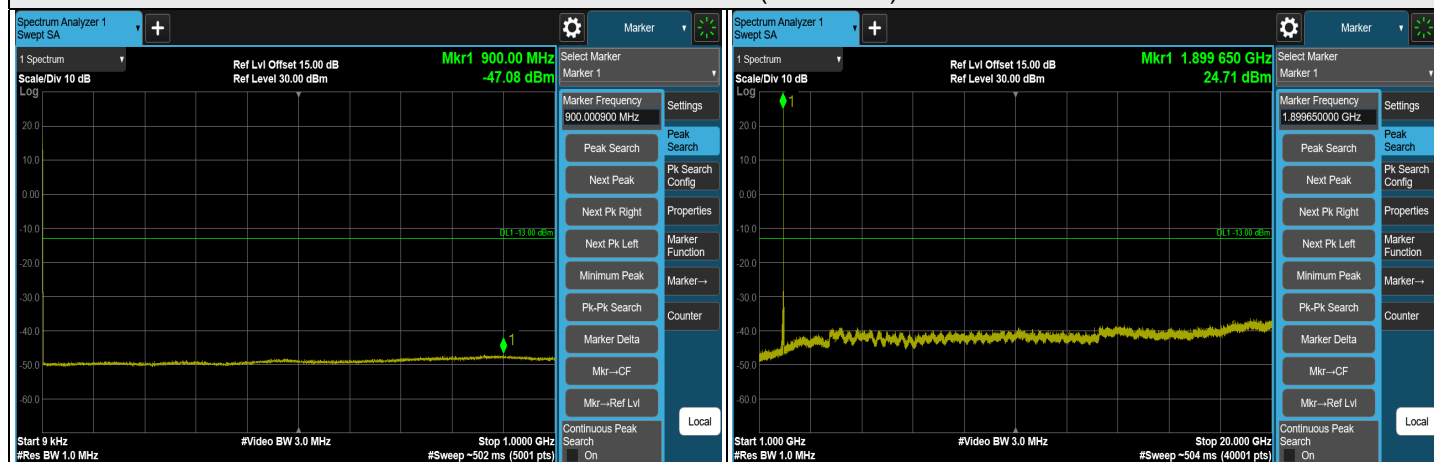
NR n2 SCS 15 kHz, Channel Bandwidth: 10 MHz



Channel 371000 (1855 MHz)



Channel 376000 (1880 MHz)



Channel 381000 (1905 MHz)

Note: The signal at 9 kHz is IF signal from spectrum analyzer.



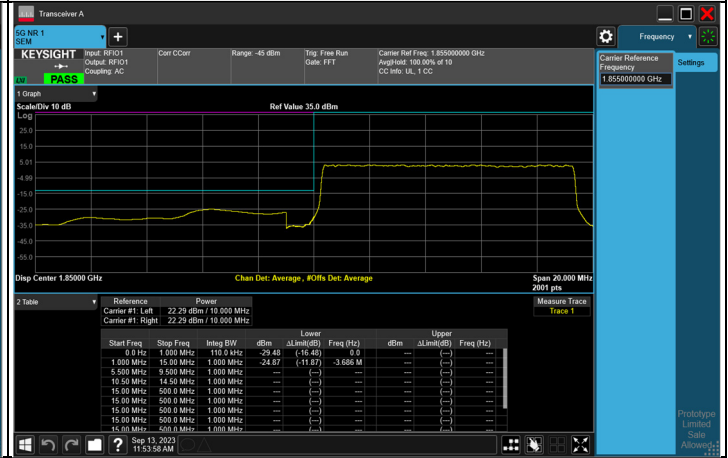
NR n2 SCS 15 kHz, Channel Bandwidth: 10 MHz

Channel 371000(1855 MHz)

1 RB

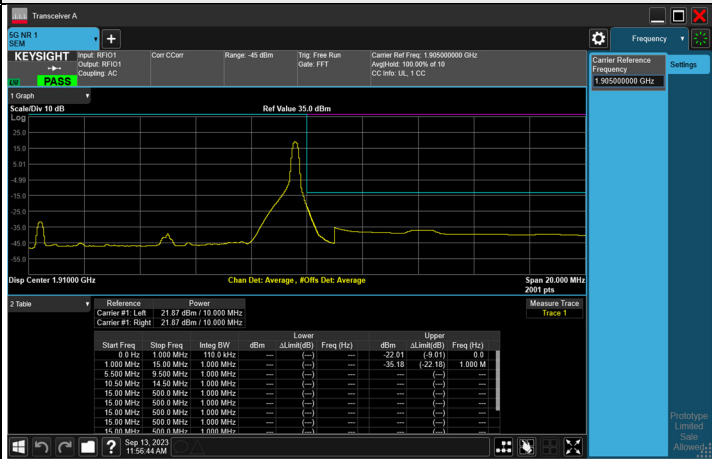


FULL RB

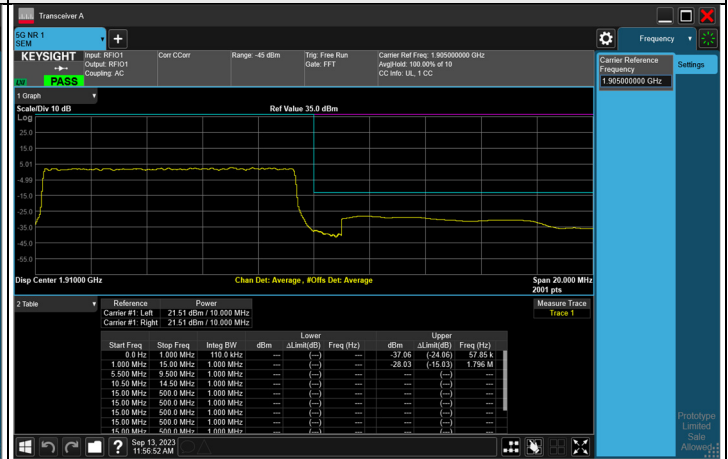


Channel 381000(1905 MHz)

1 RB

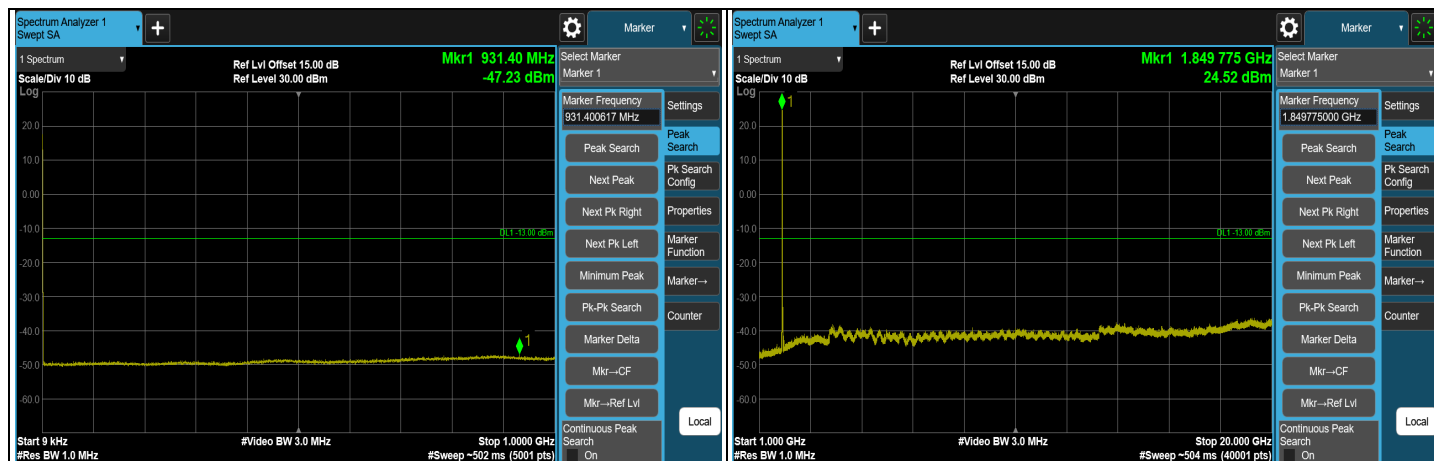


FULL RB

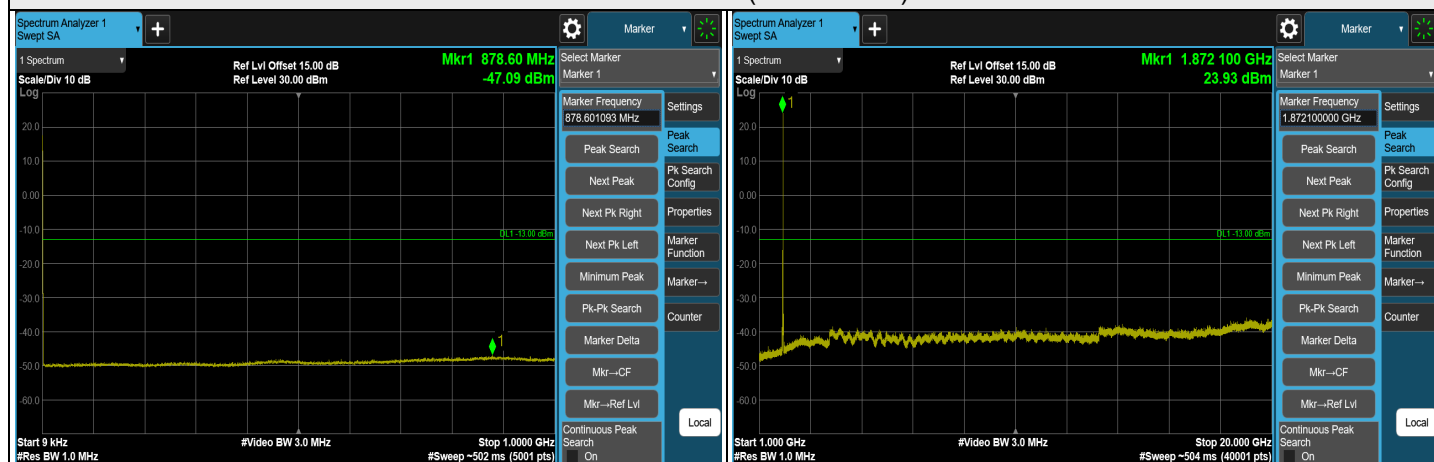




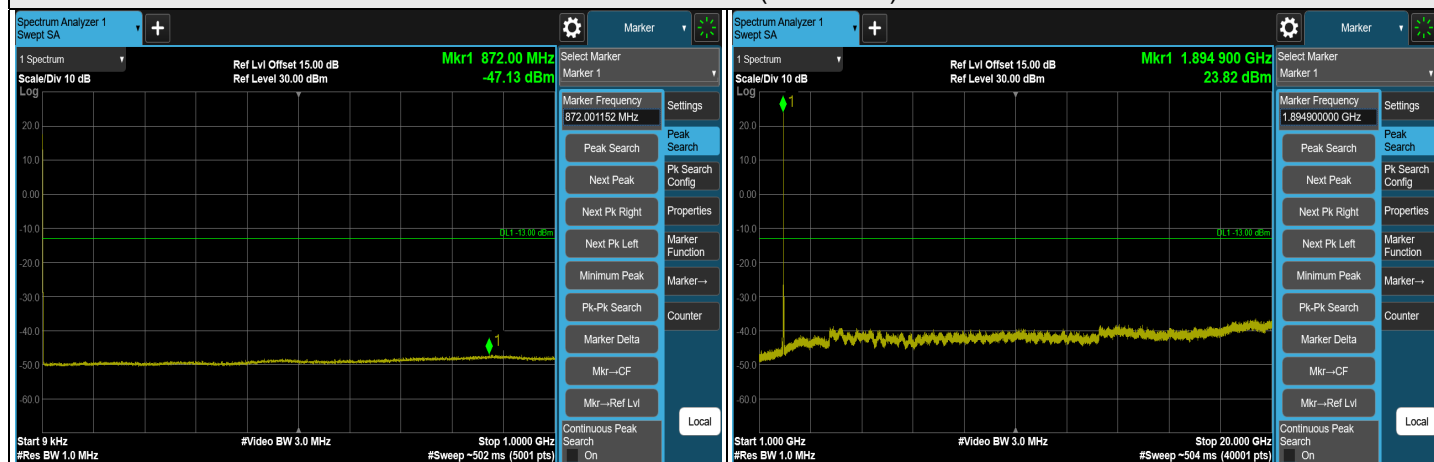
NR n2 SCS 15 kHz, Channel Bandwidth: 15 MHz



Channel 371500 (1857.5 MHz)



Channel 376000 (1880 MHz)



Channel 380500 (1902.5 MHz)

Note: The signal at 9 kHz is IF signal from spectrum analyzer.

NR n2 SCS 15 kHz, Channel Bandwidth: 15 MHz

Channel 371500(1857.5 MHz)

1 RB

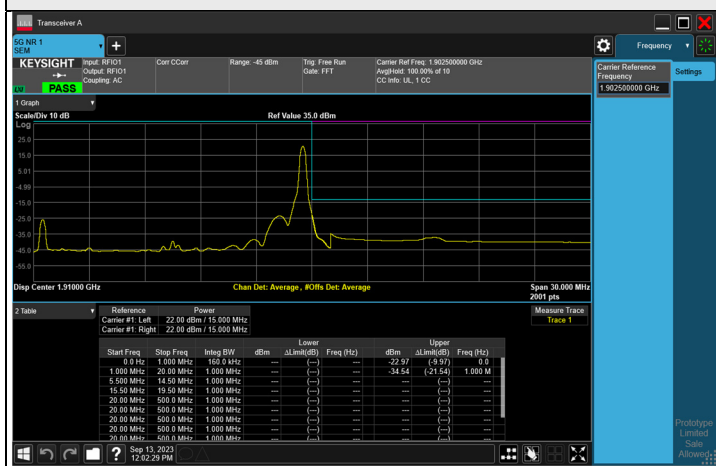


FULL RB



Channel 380500(1902.5 MHz)

1 RB



FULL RB

