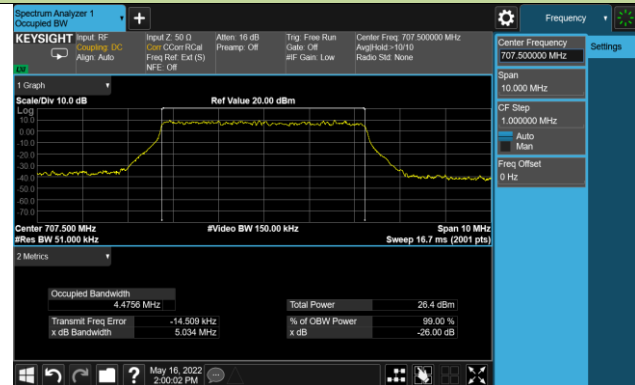
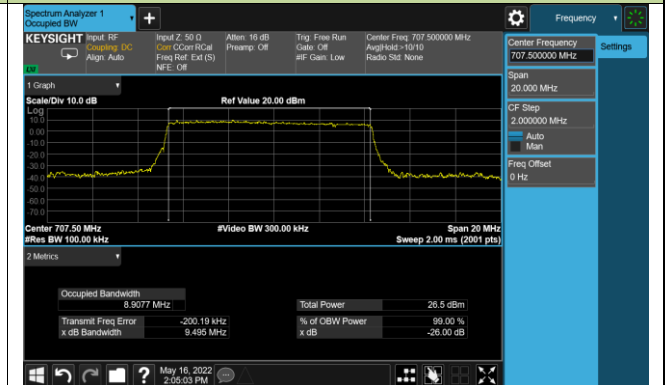


99% Bandwidth - 256QAM

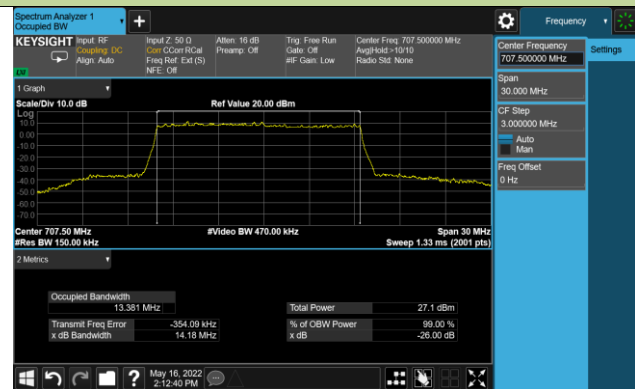
5MHz Channel Bandwidth



10MHz Channel Bandwidth



15MHz Channel Bandwidth

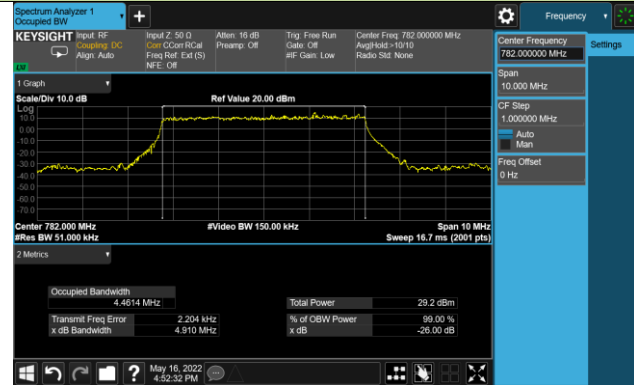


Test Site	SIP-SR1	Test Engineer	Candy Luo
Test Date	2022/05/16	Test Band	n13

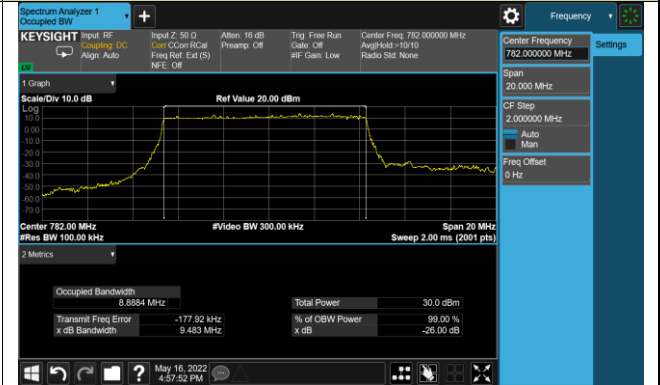
Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
PI/2 BPSK		
707.5	5	4.46
707.5	10	8.89
QPSK		
707.5	5	4.48
707.5	10	8.91
16QAM		
707.5	5	4.48
707.5	10	8.94
64QAM		
707.5	5	4.47
707.5	10	8.92
256QAM		
707.5	5	4.48
707.5	10	8.92

99% Bandwidth - PI/2 BPSK

5MHz Channel Bandwidth

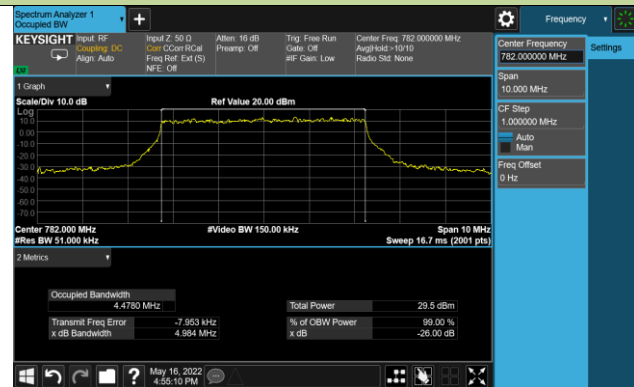


10MHz Channel Bandwidth

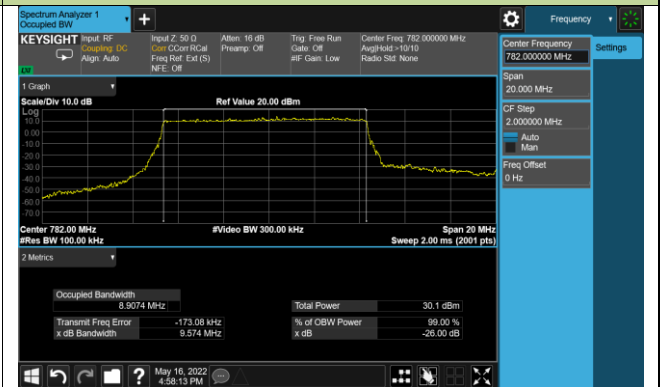


99% Bandwidth - QPSK

5MHz Channel Bandwidth

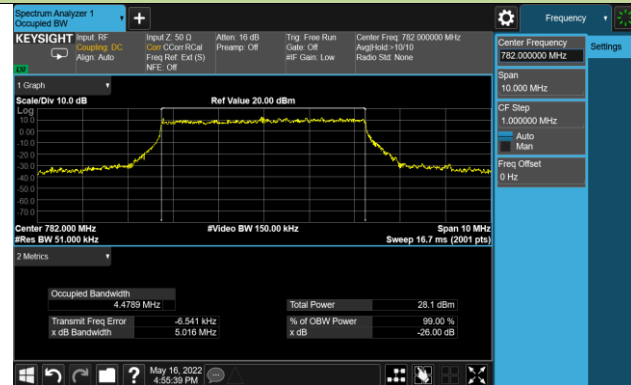


10MHz Channel Bandwidth

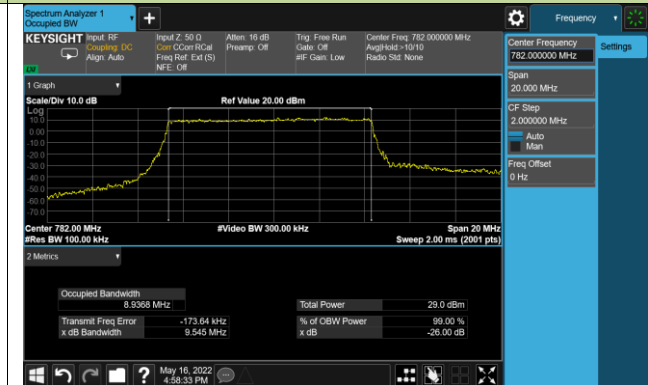


99% Bandwidth - 16QAM

5MHz Channel Bandwidth

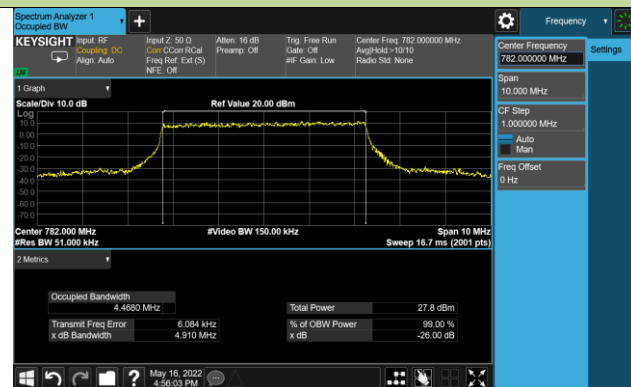


10MHz Channel Bandwidth

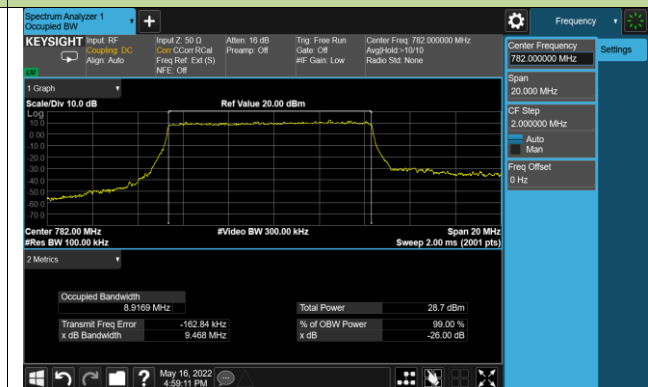


99% Bandwidth - 64QAM

5MHz Channel Bandwidth

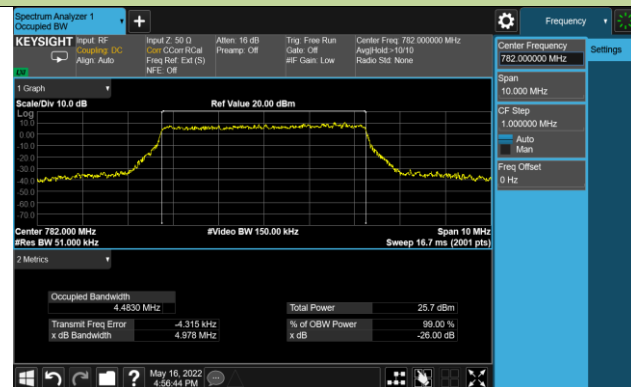


10MHz Channel Bandwidth

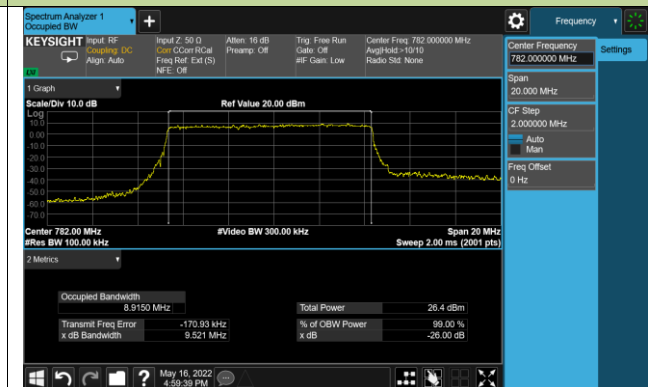


99% Bandwidth - 256QAM

5MHz Channel Bandwidth



10MHz Channel Bandwidth



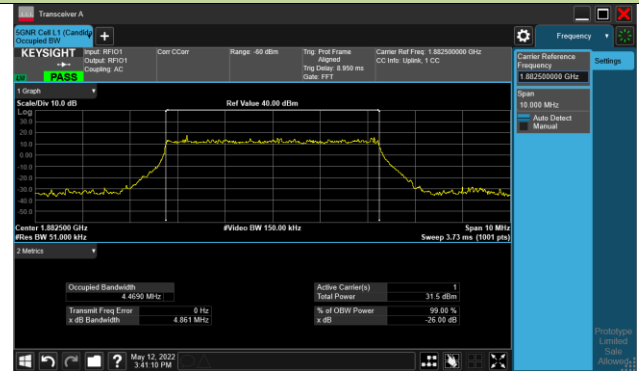
Test Site	SIP-SR1	Test Engineer	Candy Luo
Test Date	2022/05/12	Test Band	n25

Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
PI/2 BPSK		
1882.5	5	4.47
1882.5	10	9.20
1882.5	15	14.00
1882.5	20	18.70
1882.5	25	23.46
1882.5	30	28.51
1882.5	40	38.42
QPSK		
1882.5	5	4.48
1882.5	10	9.21
1882.5	15	14.00
1882.5	20	18.68
1882.5	25	23.67
1882.5	30	28.51
1882.5	40	38.50
16QAM		
1882.5	5	4.48
1882.5	10	9.24
1882.5	15	1.06
1882.5	20	18.70
1882.5	25	23.66
1882.5	30	28.52
1882.5	40	38.49
64QAM		
1882.5	5	4.47
1882.5	10	9.21
1882.5	15	13.98
1882.5	25	18.69
1882.5	30	23.42
1882.5	40	28.58
1882.5	20	38.42

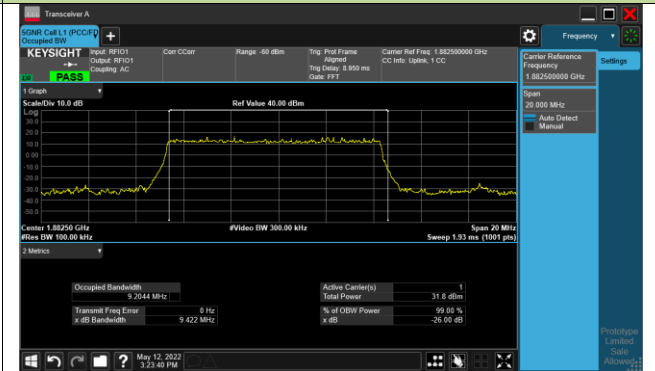
256QAM		
1882.5	5	4.48
1882.5	10	9.22
1882.5	15	14.00
1882.5	20	18.75
1882.5	25	23.62
1882.5	30	28.52
1882.5	40	38.49

99% Bandwidth - PI/2 BPSK

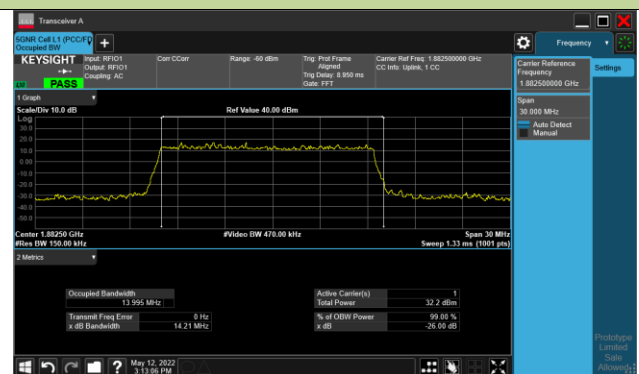
5MHz Channel Bandwidth



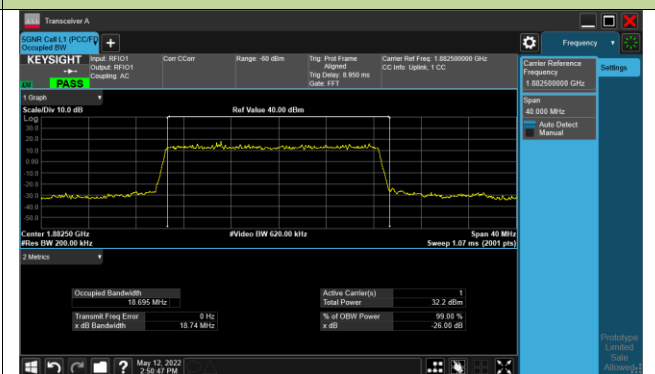
10MHz Channel Bandwidth



15MHz Channel Bandwidth



20MHz Channel Bandwidth



25MHz Channel Bandwidth



30MHz Channel Bandwidth

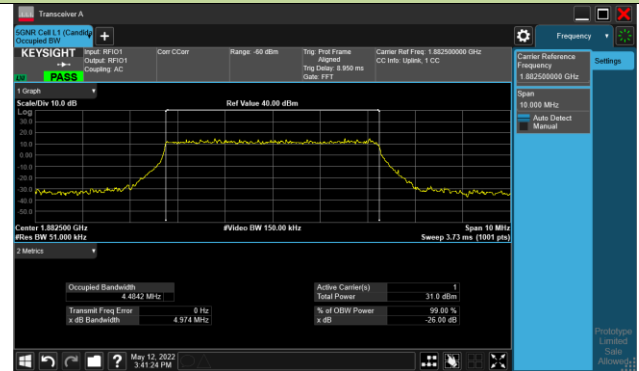


40MHz Channel Bandwidth

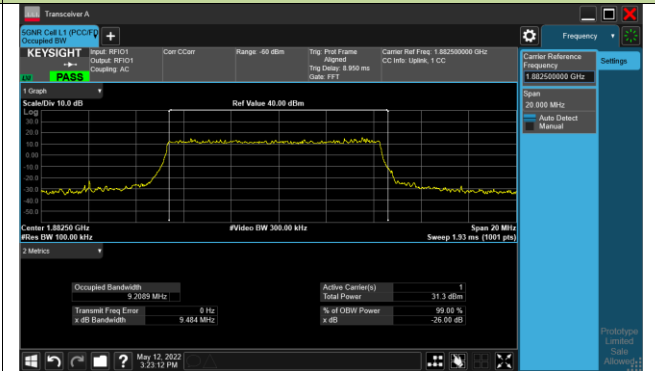


99% Bandwidth - QPSK

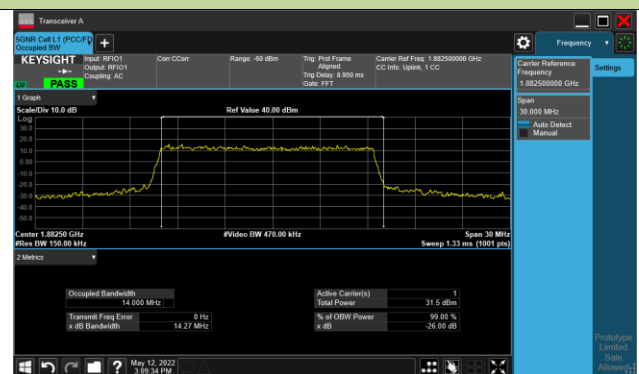
5MHz Channel Bandwidth



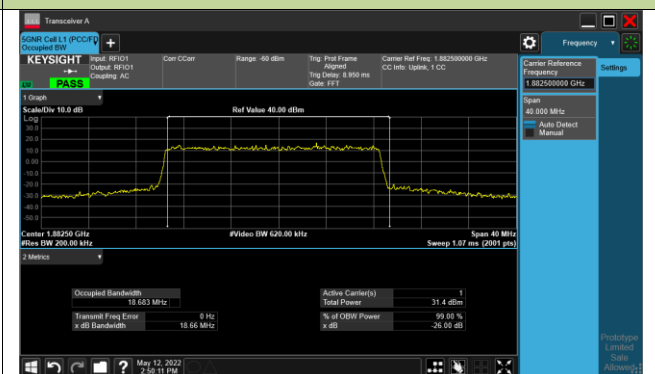
10MHz Channel Bandwidth



15MHz Channel Bandwidth



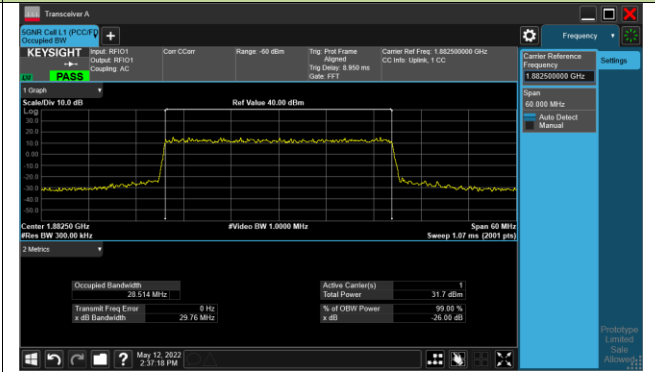
20MHz Channel Bandwidth



25MHz Channel Bandwidth



30MHz Channel Bandwidth



40MHz Channel Bandwidth



99% Bandwidth - 16QAM

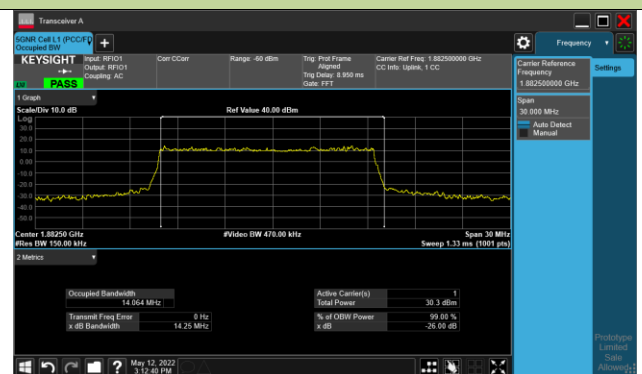
5MHz Channel Bandwidth



10MHz Channel Bandwidth



15MHz Channel Bandwidth



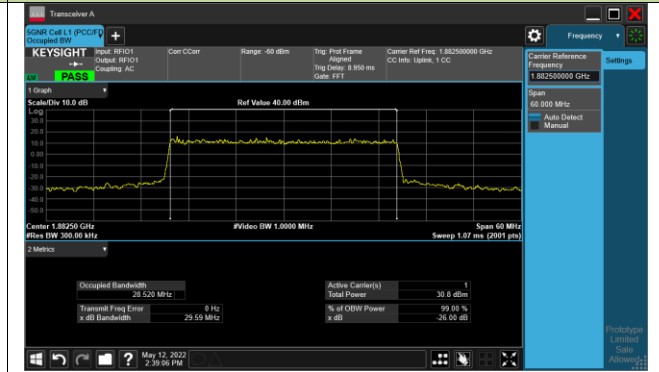
20MHz Channel Bandwidth



25MHz Channel Bandwidth



30MHz Channel Bandwidth

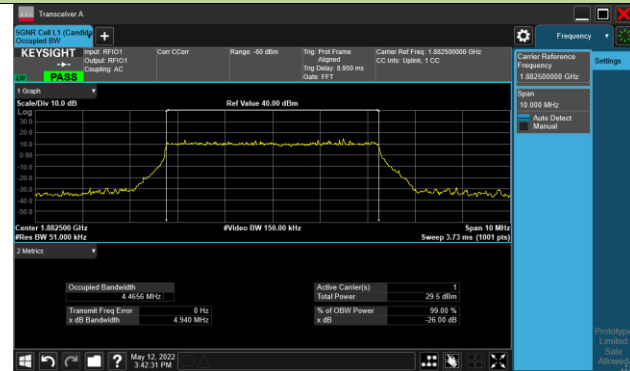


40MHz Channel Bandwidth

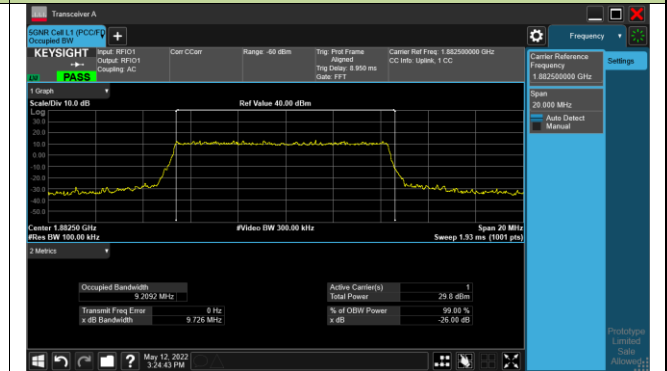


99% Bandwidth - 64QAM

5MHz Channel Bandwidth



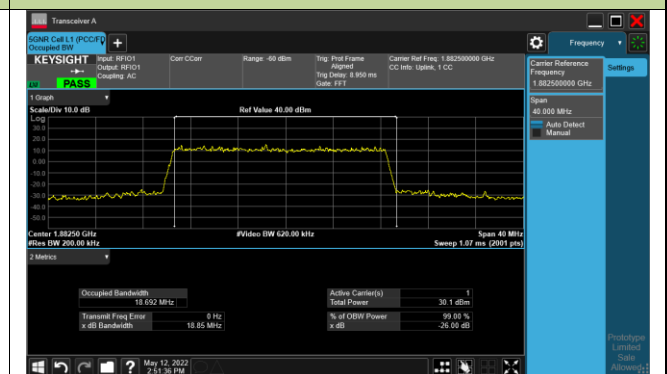
10MHz Channel Bandwidth



15MHz Channel Bandwidth



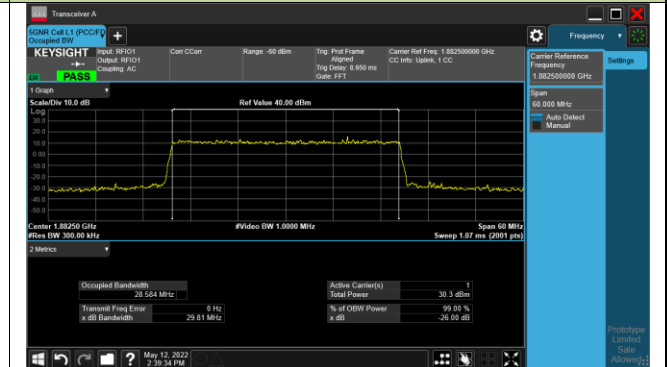
20MHz Channel Bandwidth



25MHz Channel Bandwidth



30MHz Channel Bandwidth

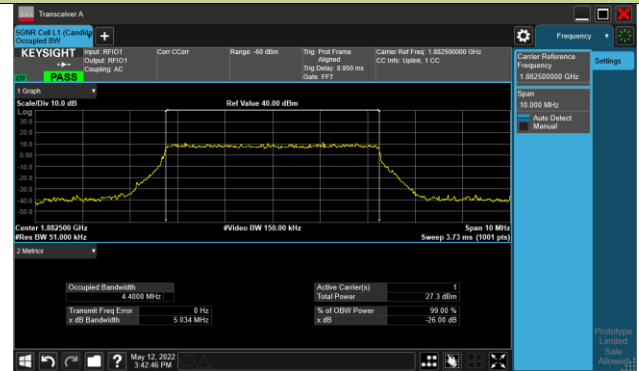


40MHz Channel Bandwidth



99% Bandwidth - 256QAM

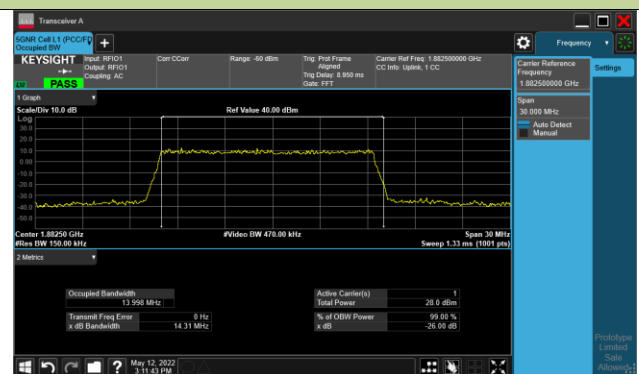
5MHz Channel Bandwidth



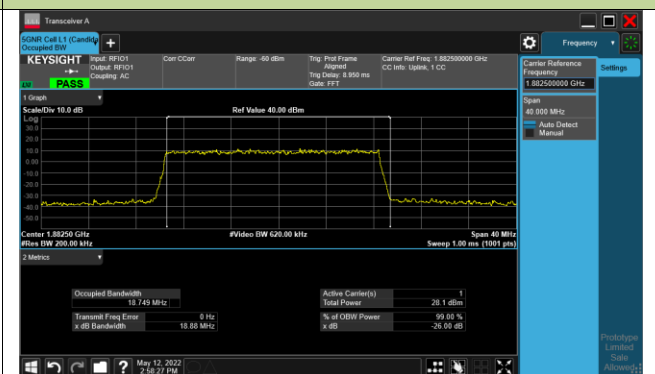
10MHz Channel Bandwidth



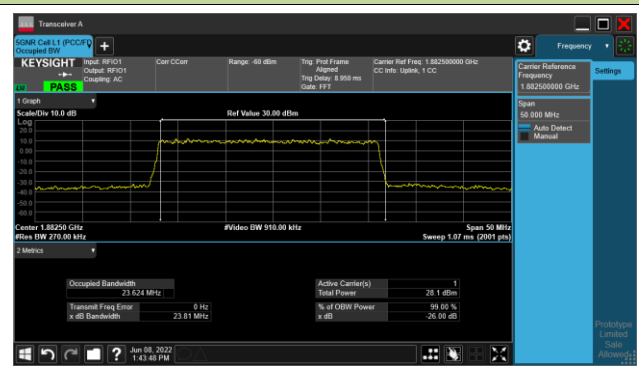
15MHz Channel Bandwidth



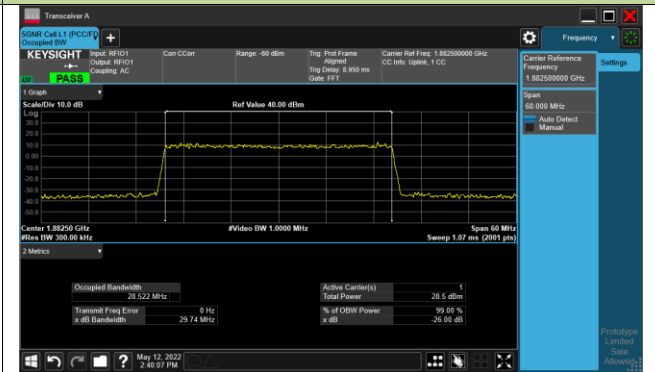
20MHz Channel Bandwidth



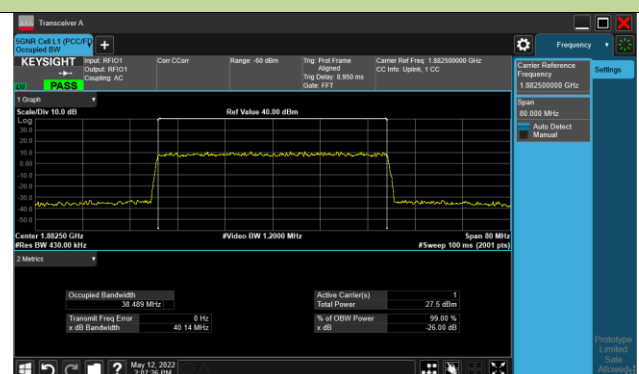
25MHz Channel Bandwidth



30MHz Channel Bandwidth



40MHz Channel Bandwidth



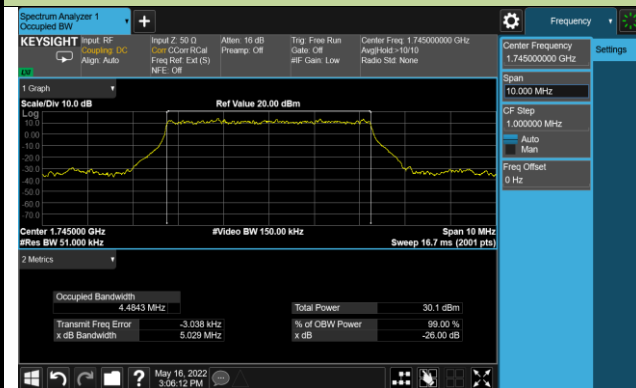
Test Site	SIP-SR1	Test Engineer	Candy Luo
Test Date	2022/05/16	Test Band	n66

Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
PI/2 BPSK		
1745.0	5	4.48
1745.0	10	8.90
1745.0	15	13.39
1745.0	20	17.84
1745.0	30	28.52
1745.0	40	38.42
QPSK		
1745.0	5	4.48
1745.0	10	8.90
1745.0	15	13.44
1745.0	20	17.84
1745.0	30	28.51
1745.0	40	38.43
16QAM		
1745.0	5	4.48
1745.0	10	8.95
1745.0	15	13.42
1745.0	20	17.90
1745.0	30	28.51
1745.0	40	38.51
64QAM		
1745.0	5	4.48
1745.0	10	8.94
1745.0	15	13.39
1745.0	20	17.85
1745.0	30	28.60
1745.0	40	38.48

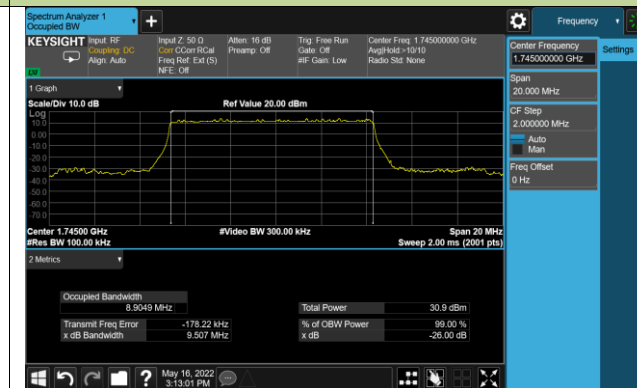
256QAM		
1745.0	5	4.48
1745.0	10	8.94
1745.0	15	13.42
1745.0	20	17.82
1745.0	30	28.52
1745.0	40	38.47

99% Bandwidth - PI/2 BPSK

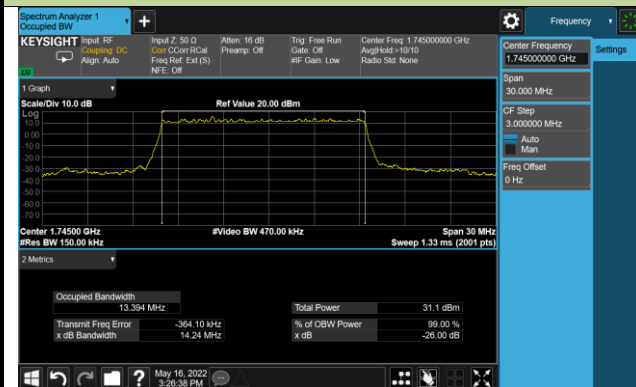
5MHz Channel Bandwidth



10MHz Channel Bandwidth



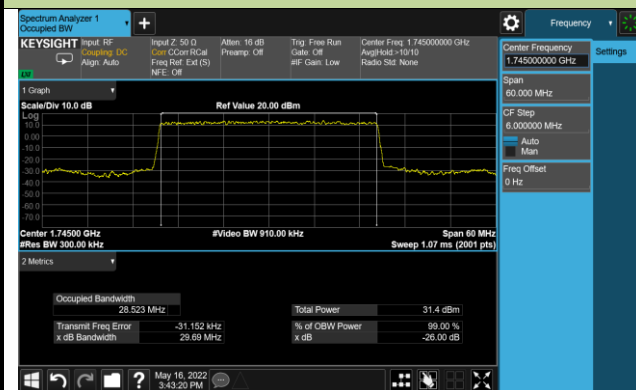
15MHz Channel Bandwidth



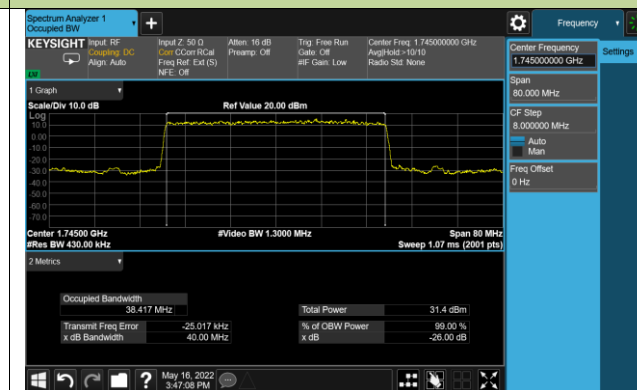
20MHz Channel Bandwidth



30MHz Channel Bandwidth

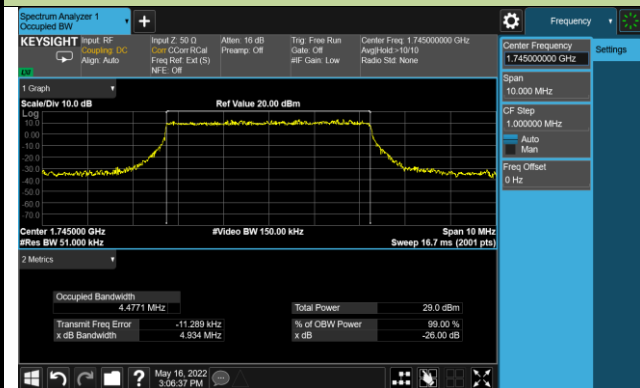


40MHz Channel Bandwidth

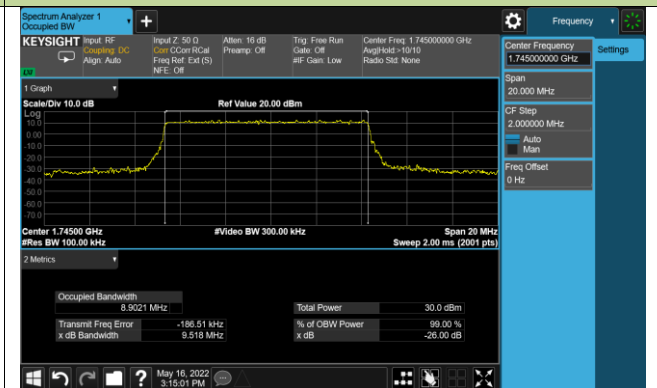


99% Bandwidth - QPSK

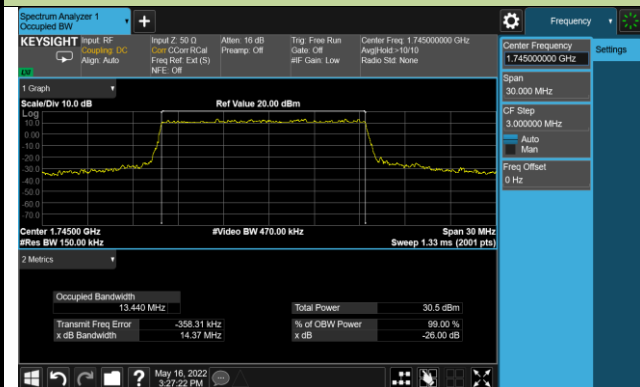
5MHz Channel Bandwidth



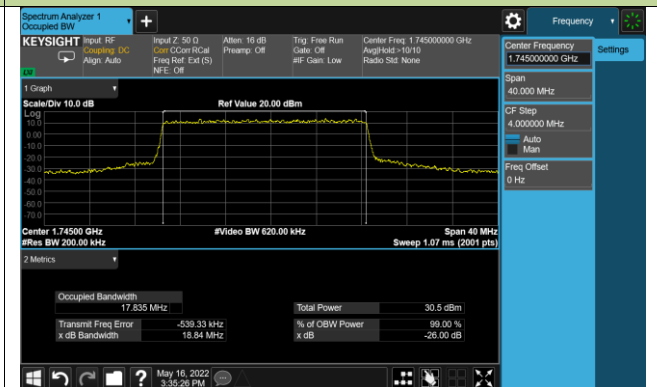
10MHz Channel Bandwidth



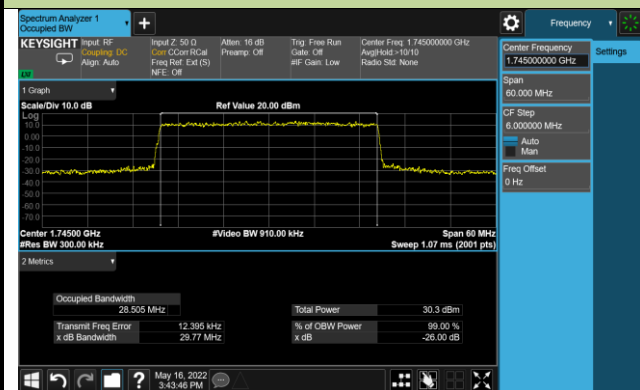
15MHz Channel Bandwidth



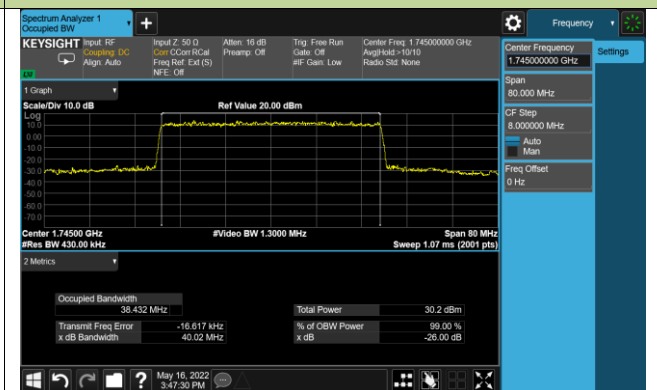
20MHz Channel Bandwidth



30MHz Channel Bandwidth

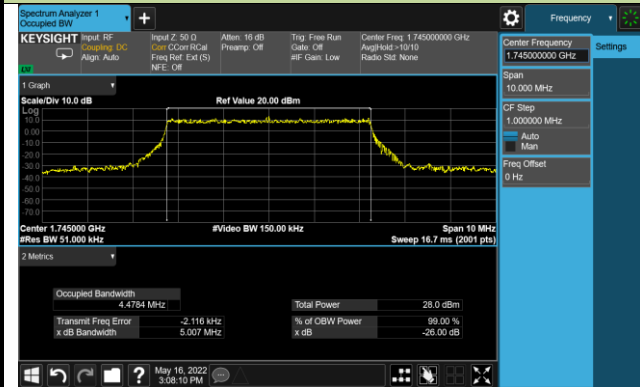


40MHz Channel Bandwidth

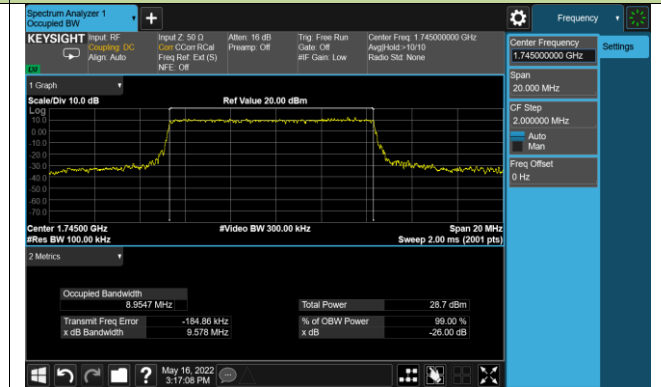


99% Bandwidth - 16QAM

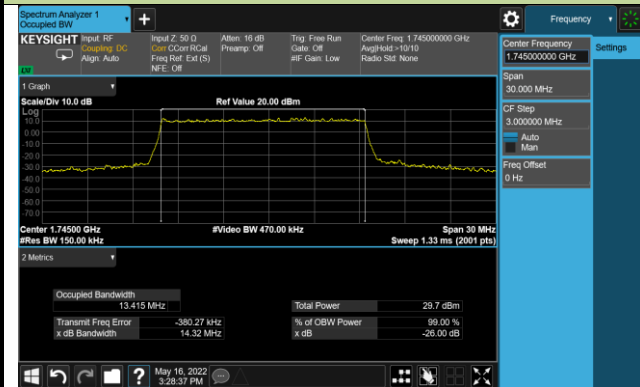
5MHz Channel Bandwidth



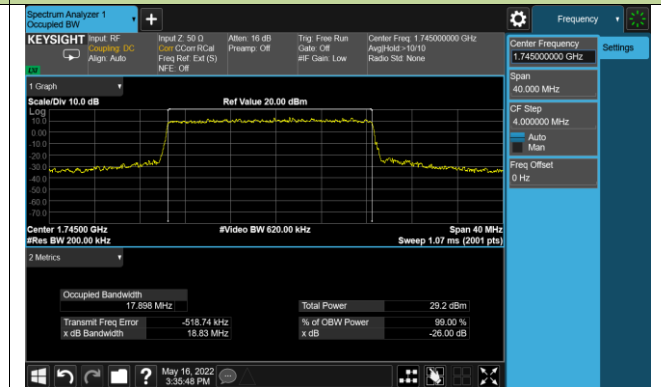
10MHz Channel Bandwidth



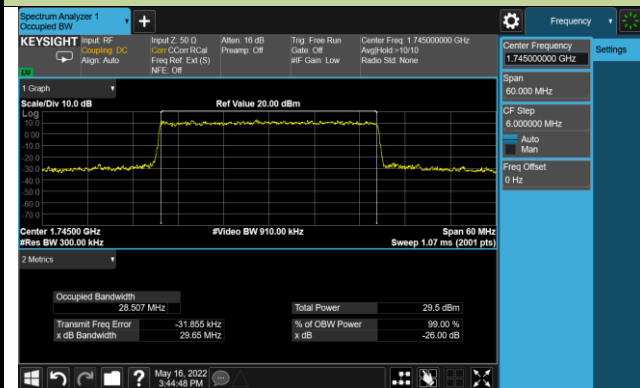
15MHz Channel Bandwidth



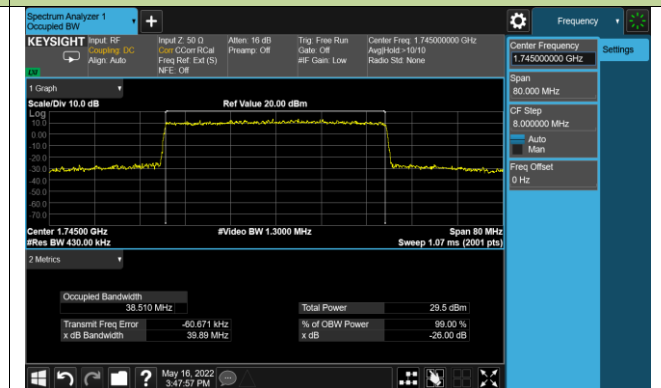
20MHz Channel Bandwidth



30MHz Channel Bandwidth

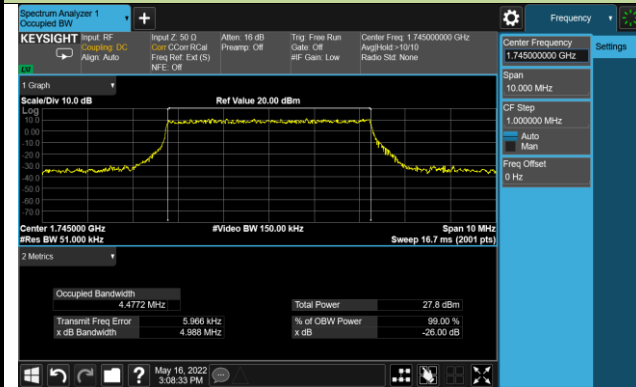


40MHz Channel Bandwidth

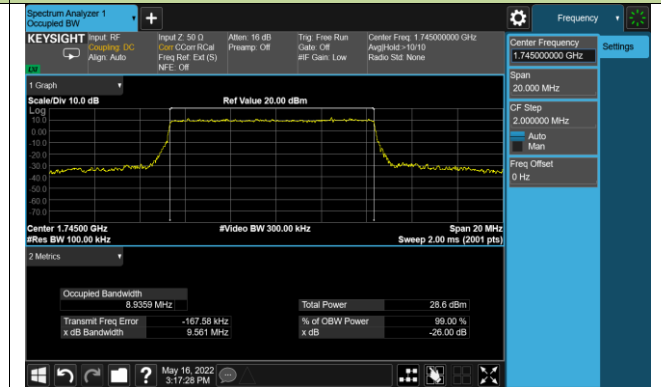


99% Bandwidth - 64QAM

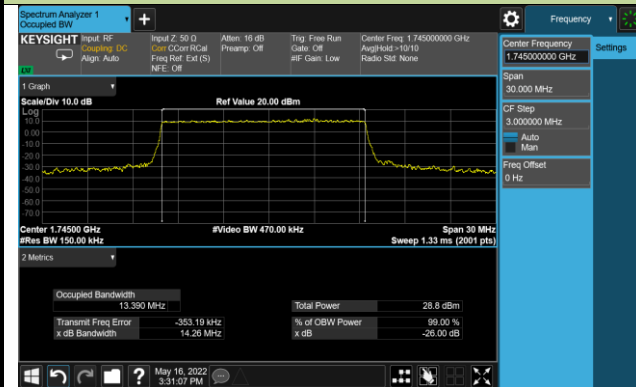
5MHz Channel Bandwidth



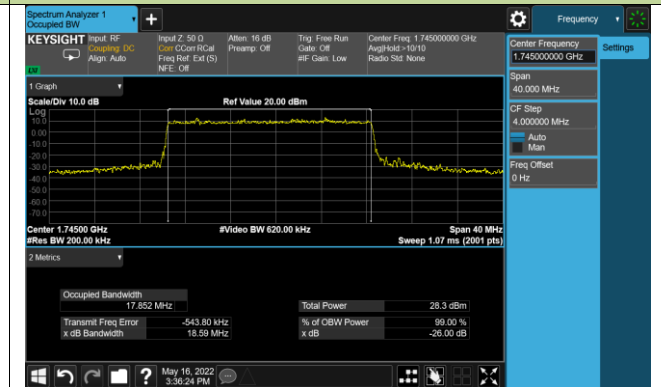
10MHz Channel Bandwidth



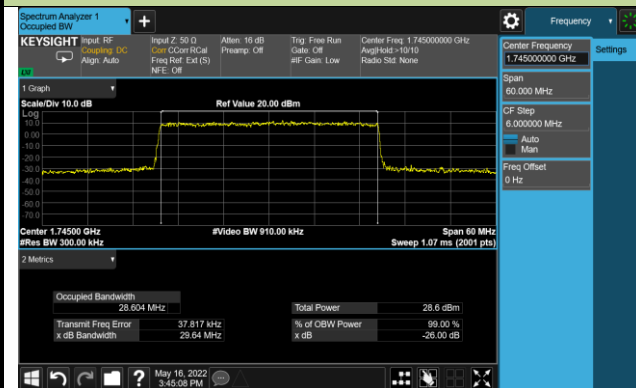
15MHz Channel Bandwidth



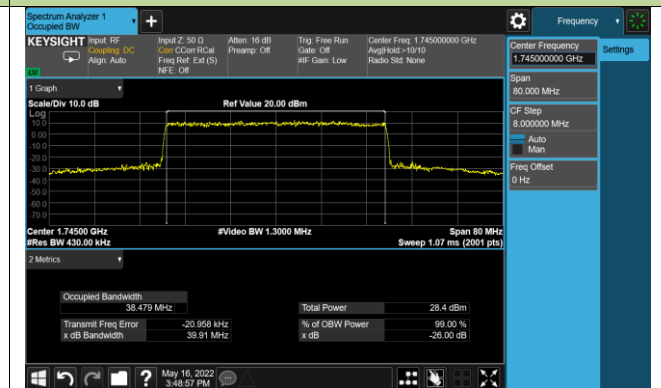
20MHz Channel Bandwidth



30MHz Channel Bandwidth

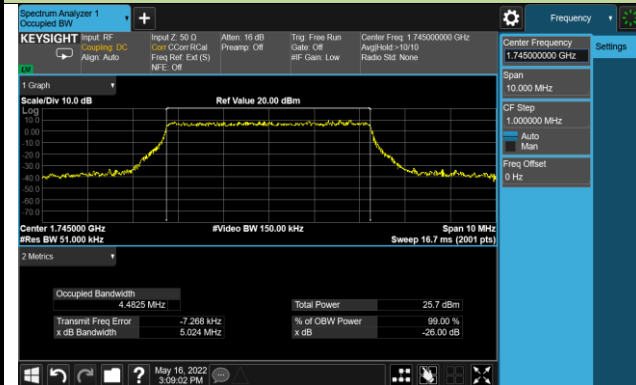


40MHz Channel Bandwidth

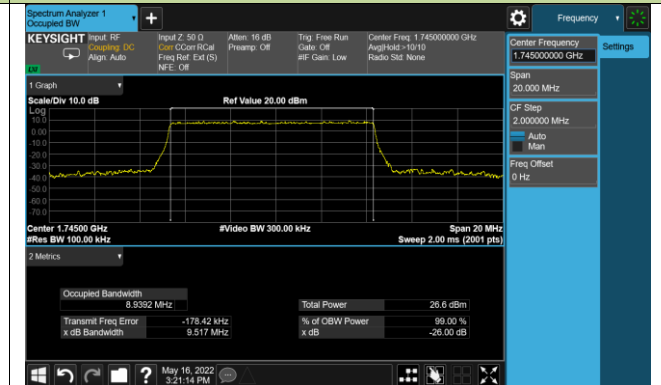


99% Bandwidth - 256QAM

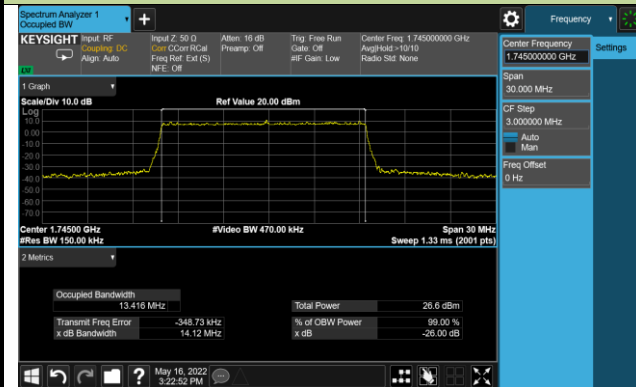
5MHz Channel Bandwidth



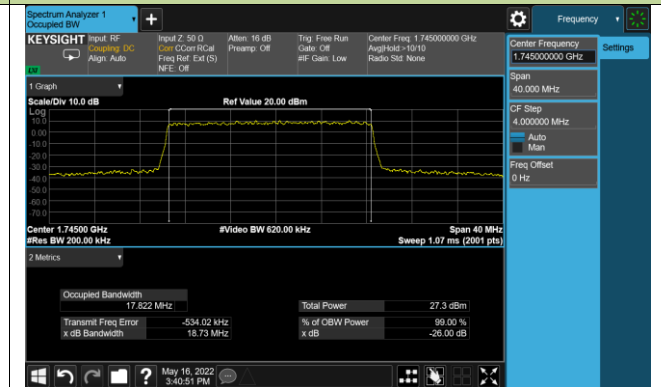
10MHz Channel Bandwidth



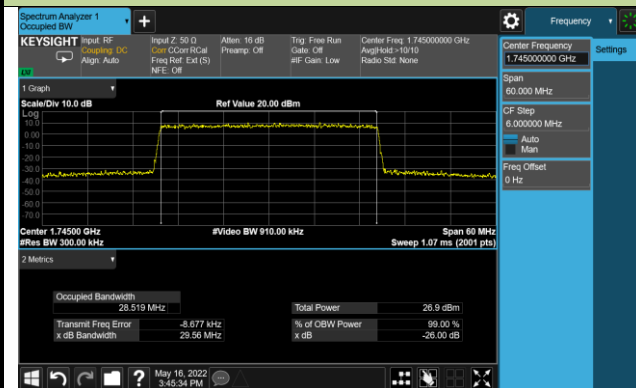
15MHz Channel Bandwidth



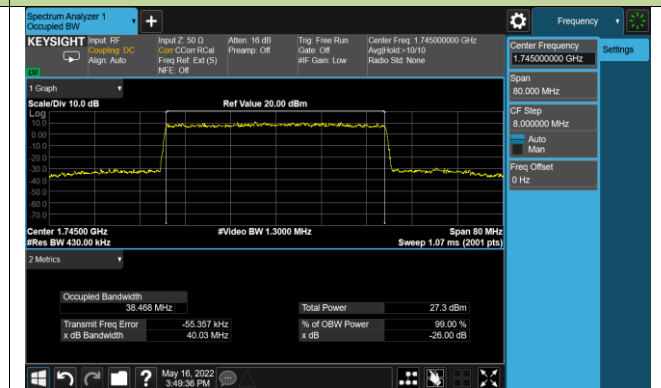
20MHz Channel Bandwidth



30MHz Channel Bandwidth



40MHz Channel Bandwidth

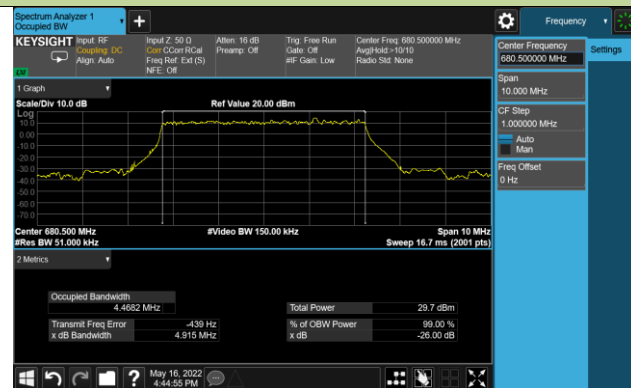


Test Site	SIP-SR1	Test Engineer	Candy Luo
Test Date	2022/05/16	Test Band	n71

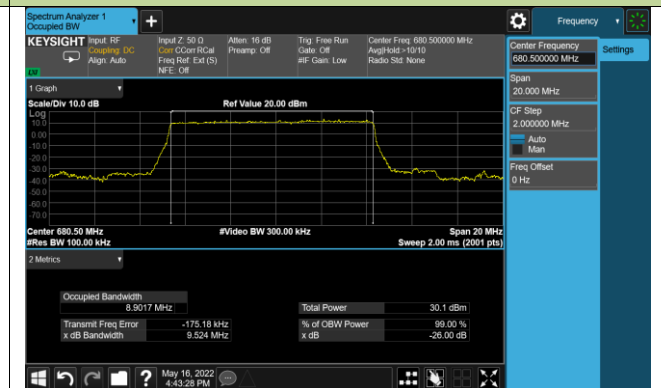
Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
PI/2 BPSK		
680.5	5	4.47
680.5	10	8.90
680.5	15	13.38
680.5	20	17.81
QPSK		
680.5	5	4.50
680.5	10	8.89
680.5	15	13.38
680.5	20	17.82
16QAM4.48		
680.5	5	4.48
680.5	10	8.93
680.5	15	13.39
680.5	20	17.83
64QAM		
680.5	5	4.48
680.5	10	8.92
680.5	15	13.38
680.5	20	17.82
256QAM		
680.5	5	4.47
680.5	10	8.91
680.5	15	13.39
680.5	20	17.82

99% Bandwidth - PI/2 BPSK

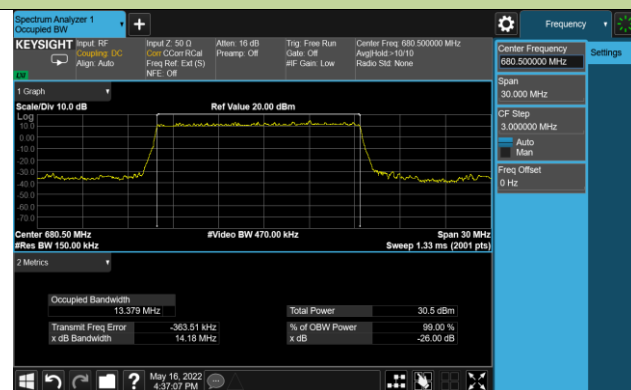
5MHz Channel Bandwidth



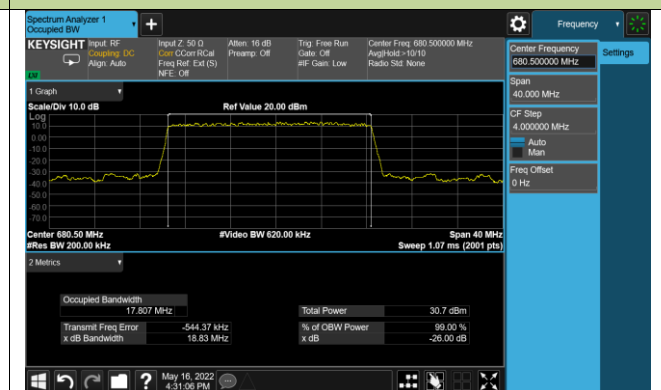
10MHz Channel Bandwidth



15MHz Channel Bandwidth



20MHz Channel Bandwidth

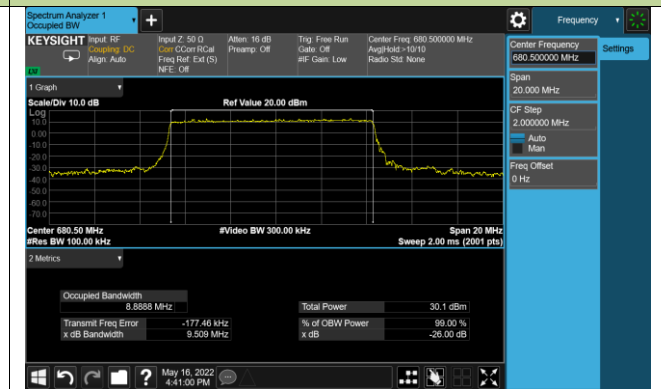


99% Bandwidth - QPSK

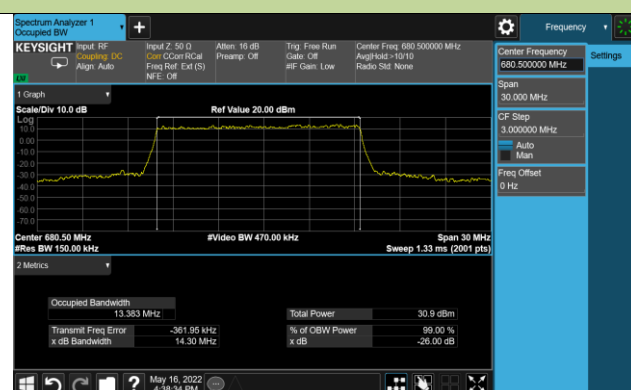
5MHz Channel Bandwidth



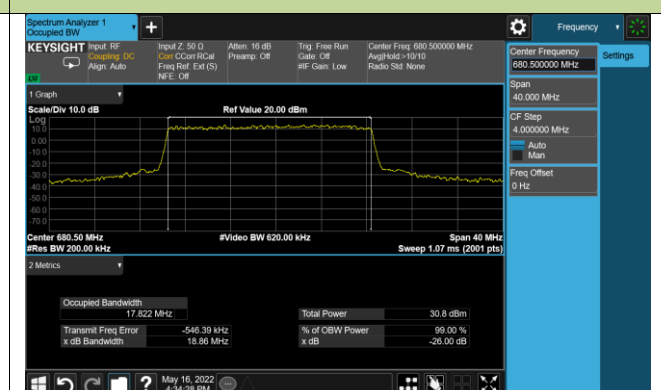
10MHz Channel Bandwidth



15MHz Channel Bandwidth

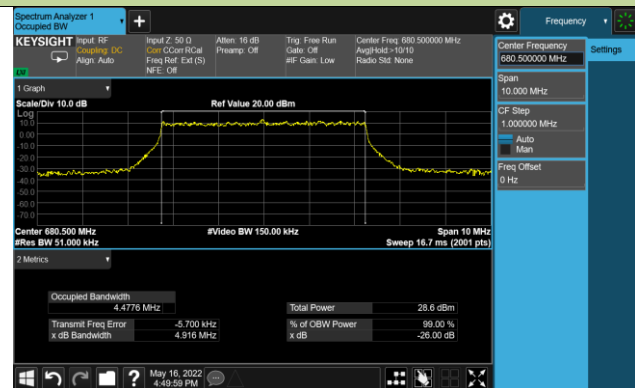


20MHz Channel Bandwidth

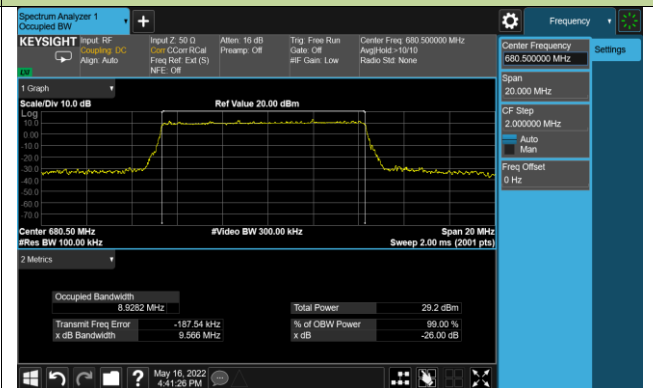


99% Bandwidth - 16QAM

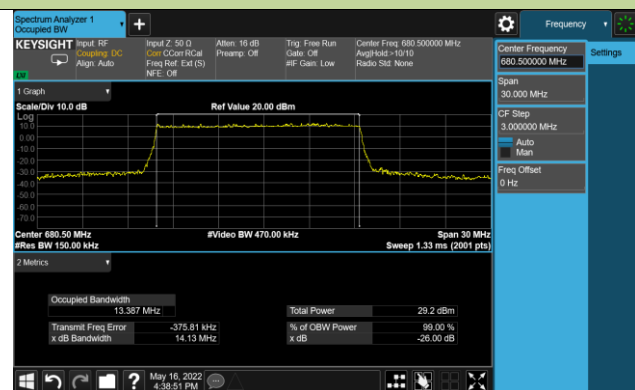
5MHz Channel Bandwidth



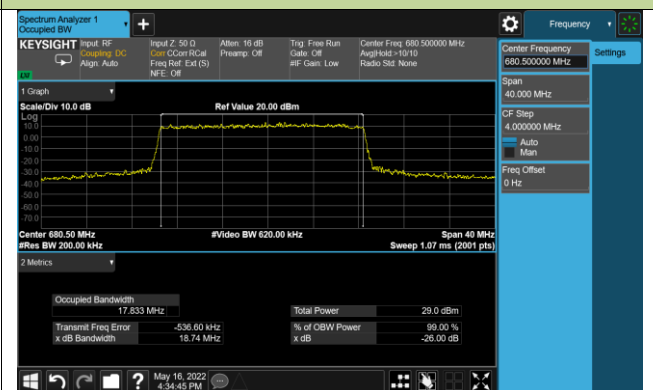
10MHz Channel Bandwidth



15MHz Channel Bandwidth

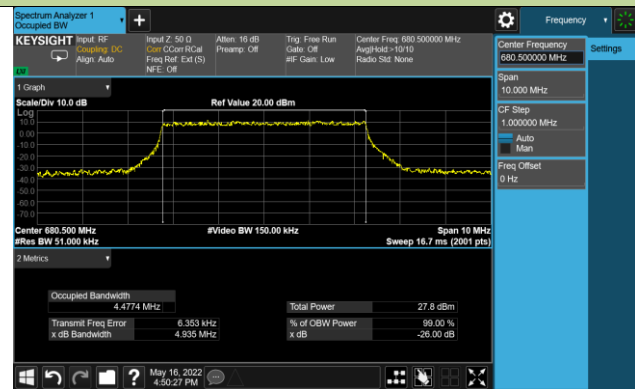


20MHz Channel Bandwidth

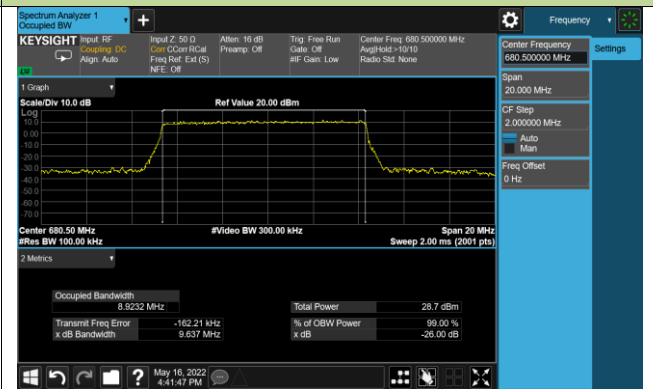


99% Bandwidth - 64QAM

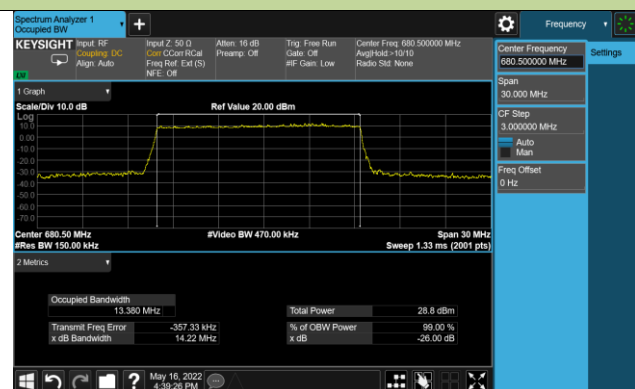
5MHz Channel Bandwidth



10MHz Channel Bandwidth



15MHz Channel Bandwidth

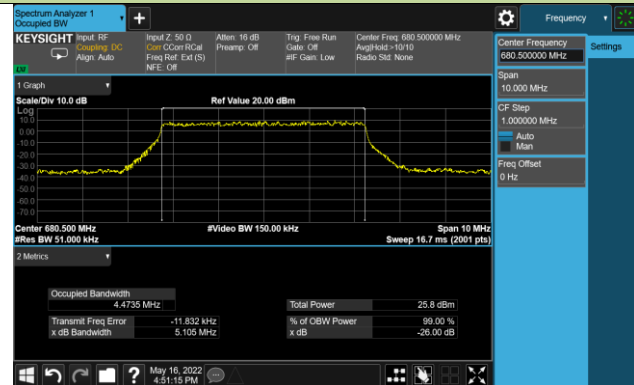


20MHz Channel Bandwidth

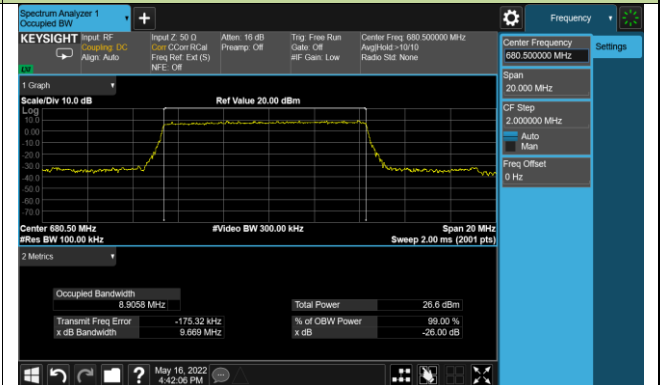


99% Bandwidth - 256QAM

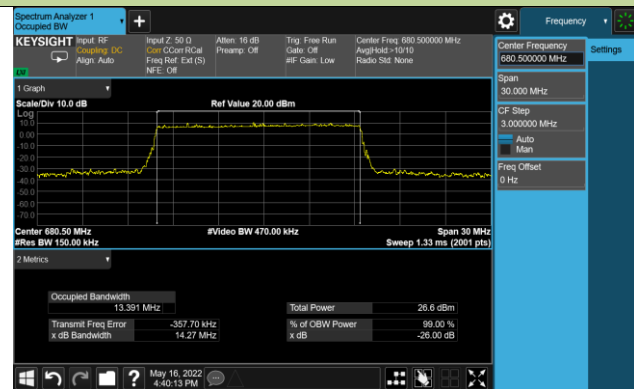
5MHz Channel Bandwidth



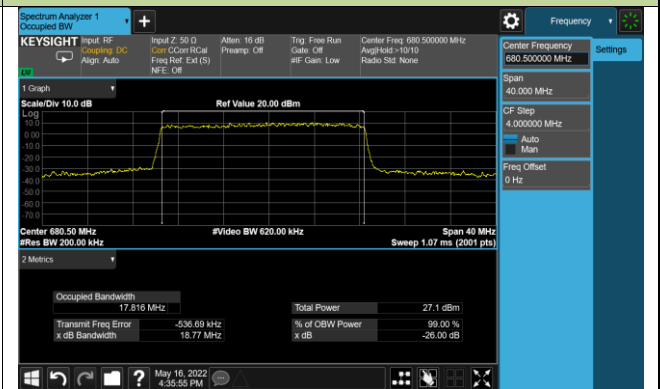
10MHz Channel Bandwidth



15MHz Channel Bandwidth



20MHz Channel Bandwidth



Test Site	SIP-SR1	Test Engineer	Candy Luo
Test Date	2022/05/16	Test Band	n38_HPUE

Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
PI/2 BPSK		
2595.00	10	8.63
2595.00	15	12.89
2595.00	20	17.83
2595.00	30	26.80
2595.00	40	35.74
QPSK		
2595.00	10	8.60
2595.00	15	12.89
2595.00	20	17.80
2595.00	30	26.81
2595.00	40	35.73
16QAM		
2595.00	10	8.62
2595.00	15	12.91
2595.00	20	17.91
2595.00	30	26.79
2595.00	40	35.74
64QAM		
2595.00	10	8.59
2595.00	15	12.87
2595.00	20	17.89
2595.00	30	26.77
2595.00	40	35.70
256QAM		
2595.00	10	8.59
2595.00	15	12.84
2595.00	20	17.88
2595.00	30	26.81
2595.00	40	35.75