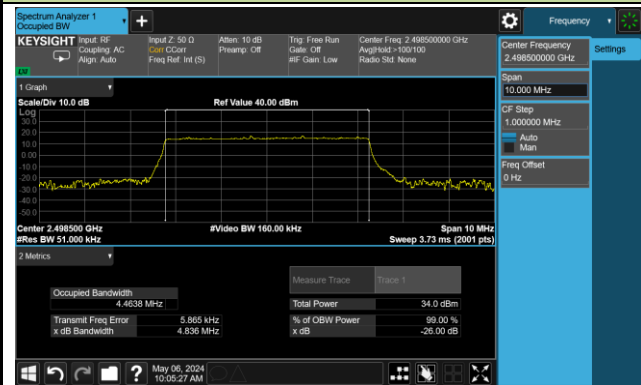
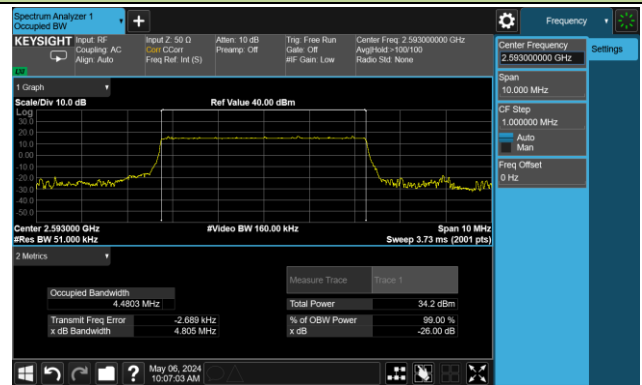


## 99% Bandwidth – 5MHz Bandwidth QPSK

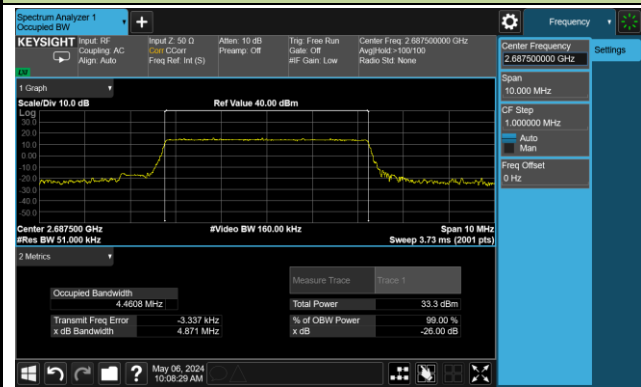
## Low Channel Bandwidth



## Middle Channel Bandwidth

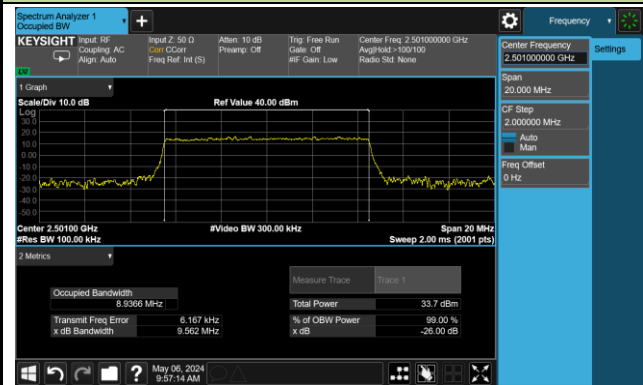


## High Channel Bandwidth

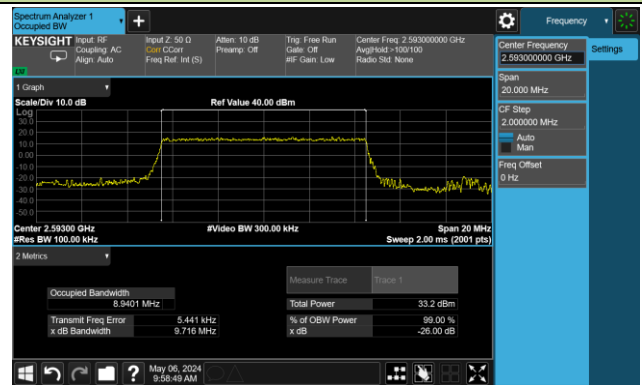


99% Bandwidth – 10MHz Bandwidth QPSK

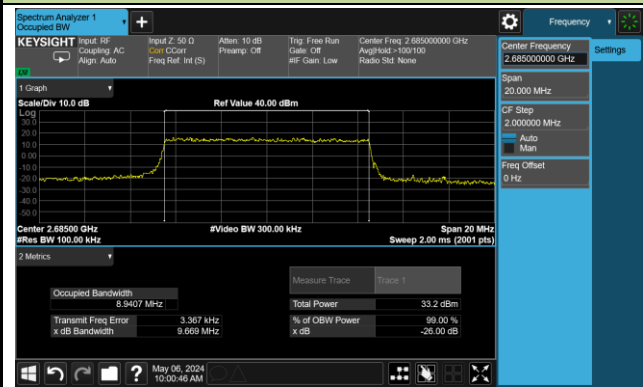
Low Channel Bandwidth



Middle Channel Bandwidth

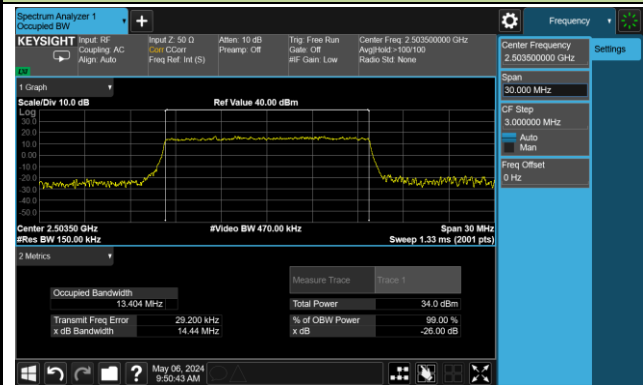


High Channel Bandwidth

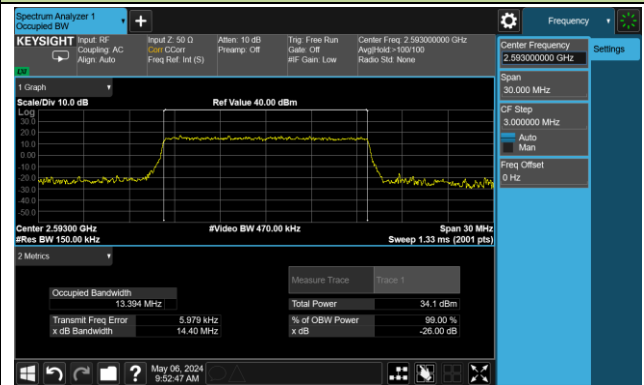


99% Bandwidth – 15MHz Bandwidth QPSK

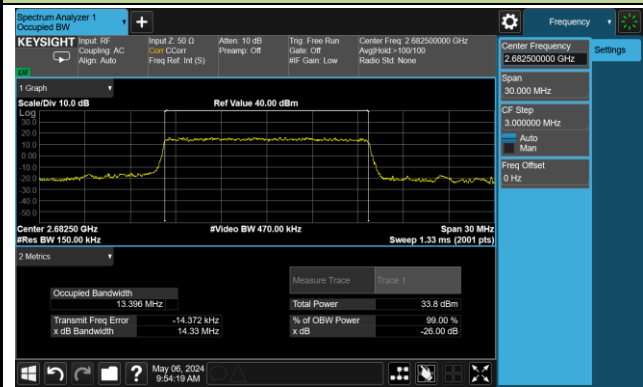
Low Channel Bandwidth



Middle Channel Bandwidth

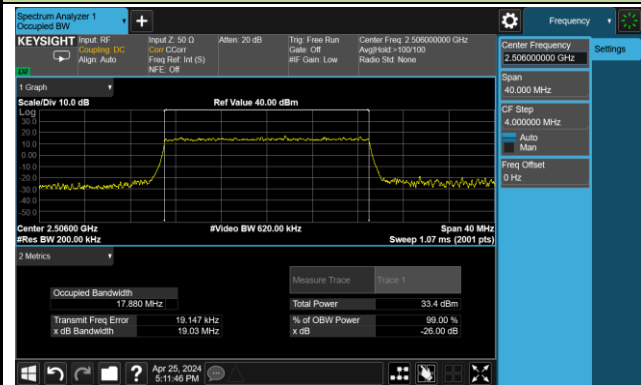


High Channel Bandwidth

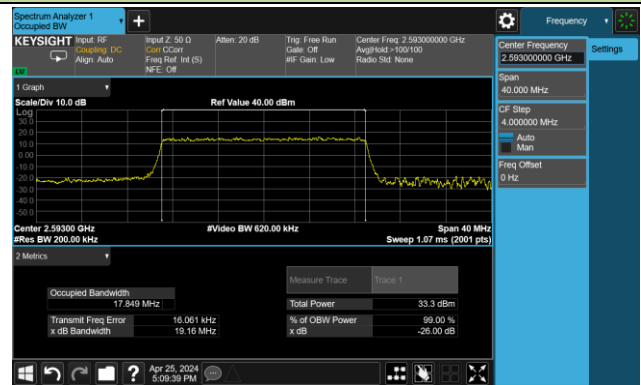


99% Bandwidth – 20MHz Bandwidth QPSK

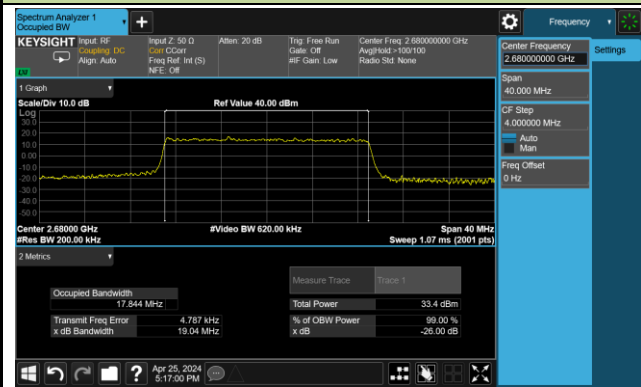
Low Channel Bandwidth



Middle Channel Bandwidth

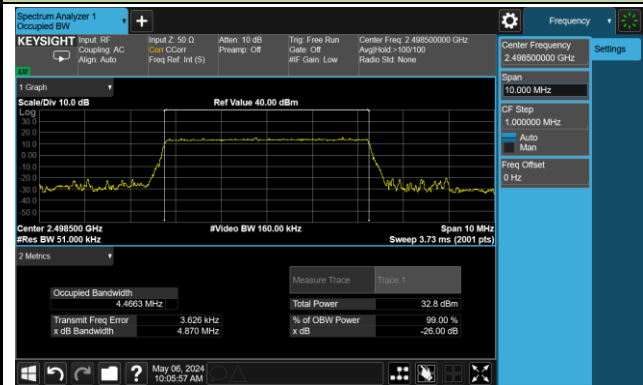


High Channel Bandwidth

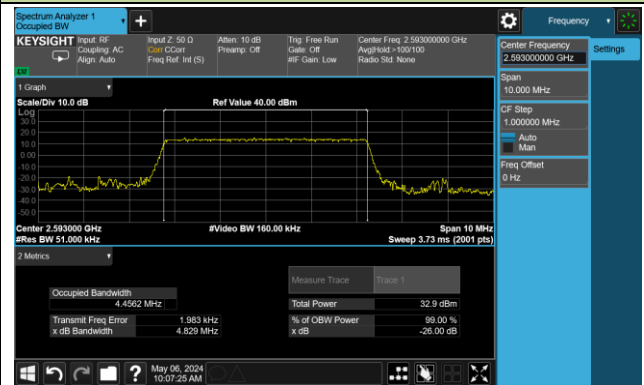


99% Bandwidth – 5MHz Bandwidth 16QAM

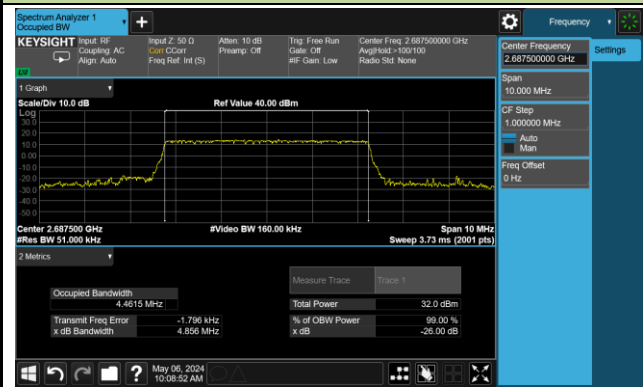
Low Channel Bandwidth



Middle Channel Bandwidth



High Channel Bandwidth

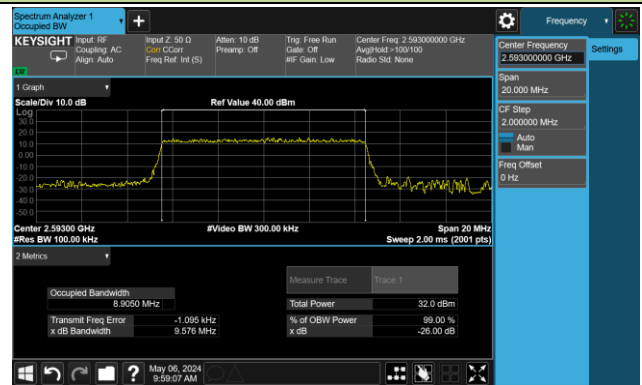


99% Bandwidth – 10MHz Bandwidth 16QAM

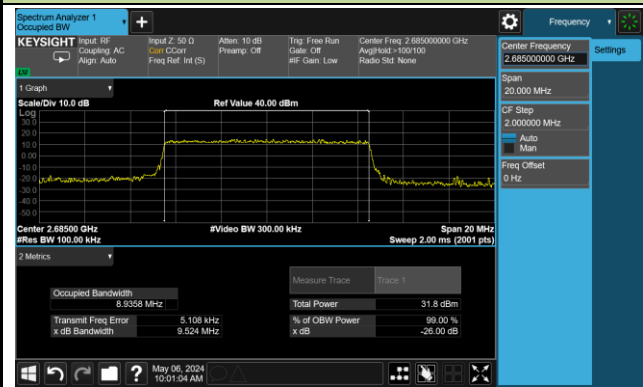
Low Channel Bandwidth



Middle Channel Bandwidth



High Channel Bandwidth

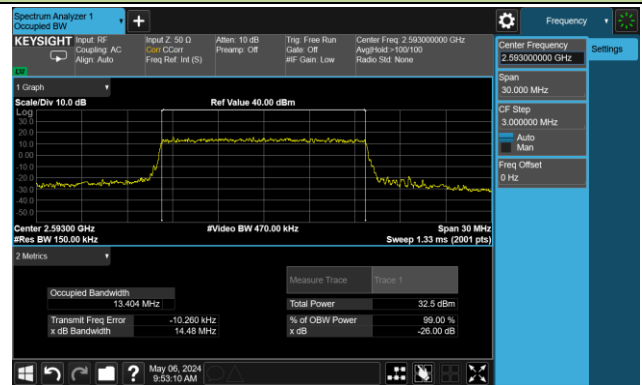


99% Bandwidth – 15MHz Bandwidth 16QAM

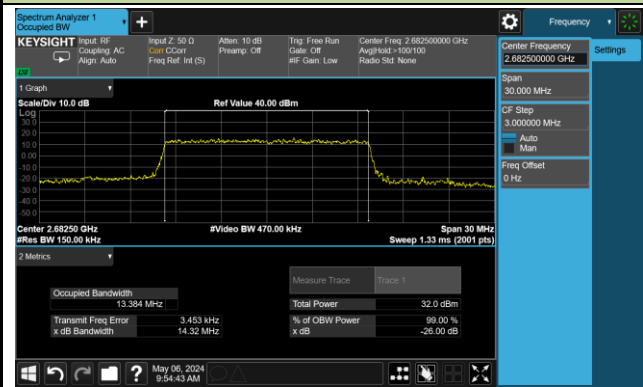
Low Channel Bandwidth



Middle Channel Bandwidth

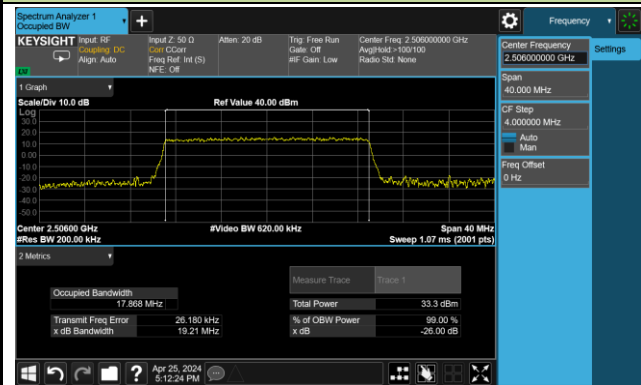


High Channel Bandwidth

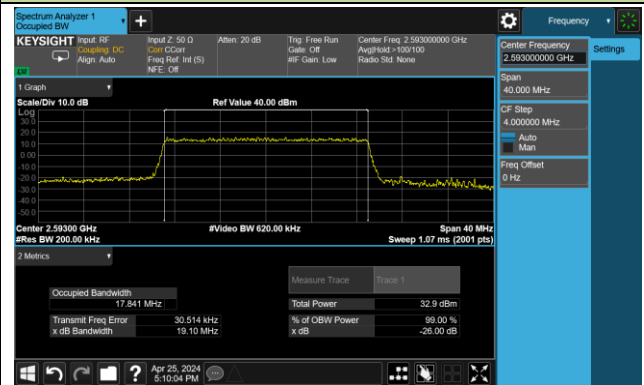


99% Bandwidth – 20MHz Bandwidth 16QAM

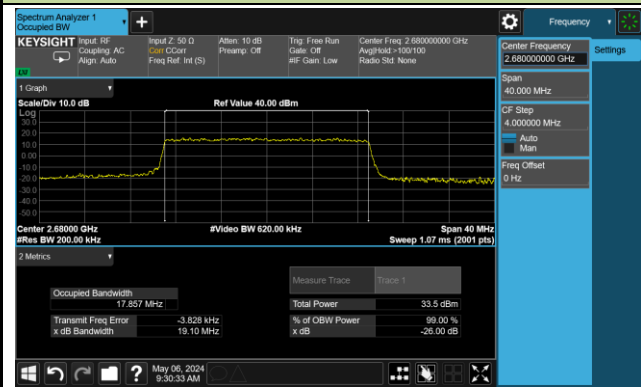
Low Channel Bandwidth



Middle Channel Bandwidth



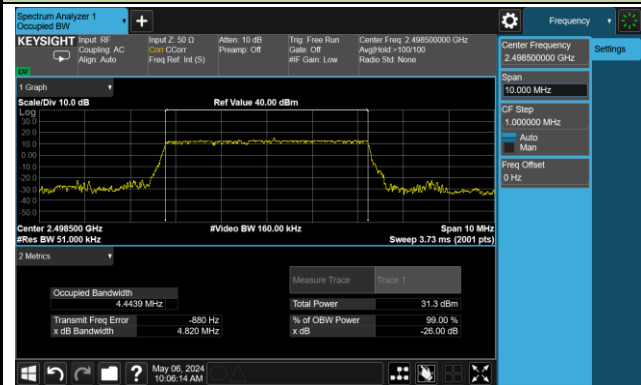
High Channel Bandwidth



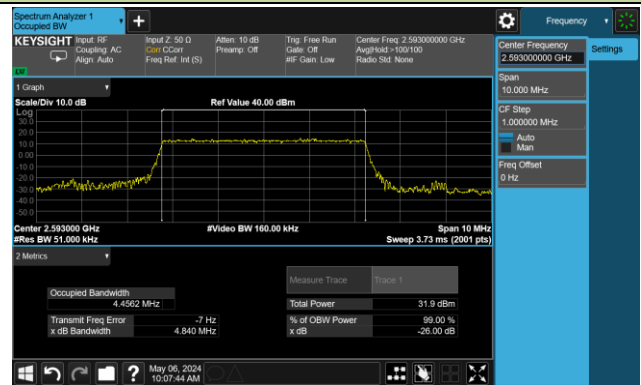


99% Bandwidth – 5MHz Bandwidth 64QAM

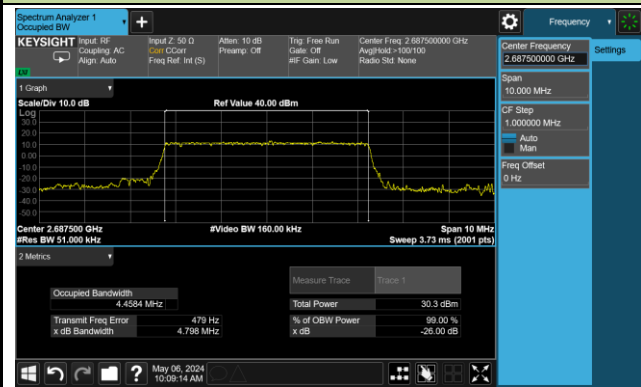
Low Channel Bandwidth



Middle Channel Bandwidth

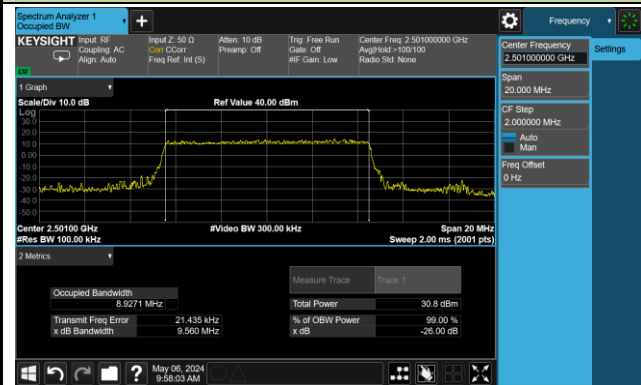


High Channel Bandwidth

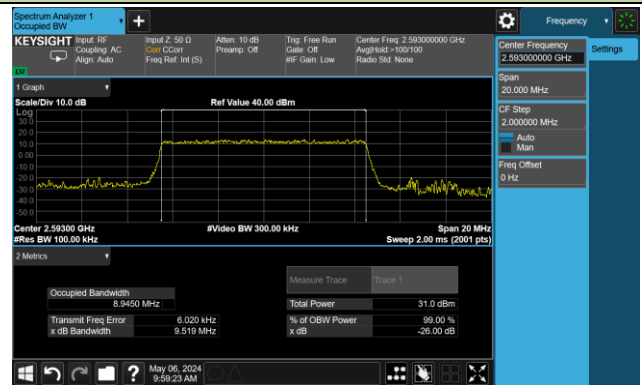


99% Bandwidth – 10MHz Bandwidth 64QAM

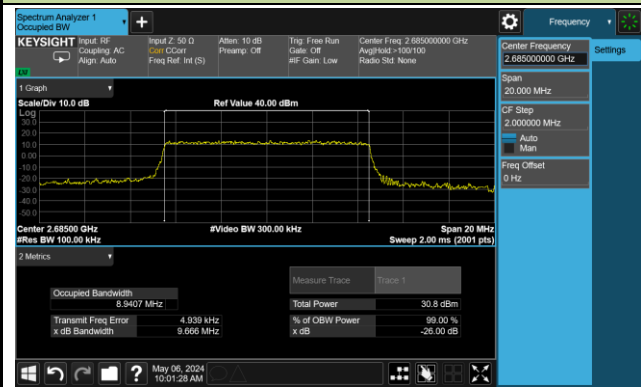
Low Channel Bandwidth



Middle Channel Bandwidth

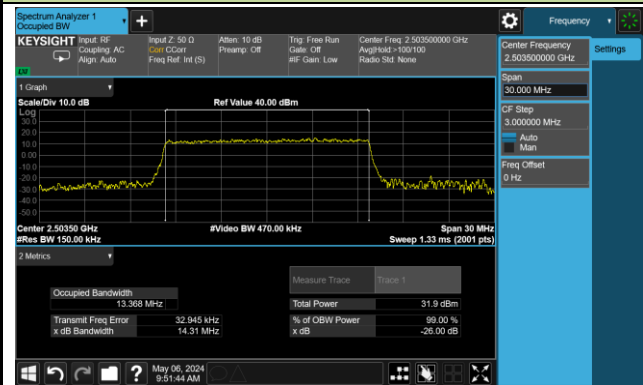


High Channel Bandwidth

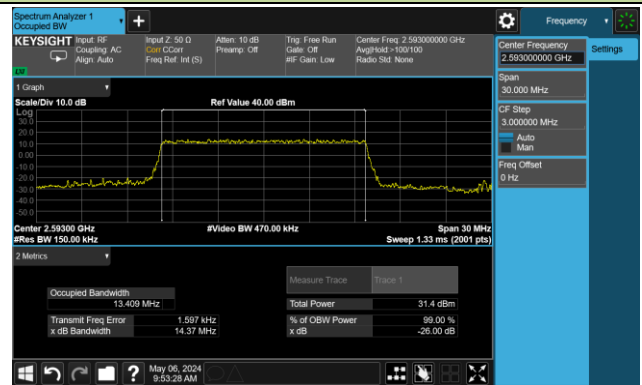


99% Bandwidth – 15MHz Bandwidth 64QAM

Low Channel Bandwidth



Middle Channel Bandwidth

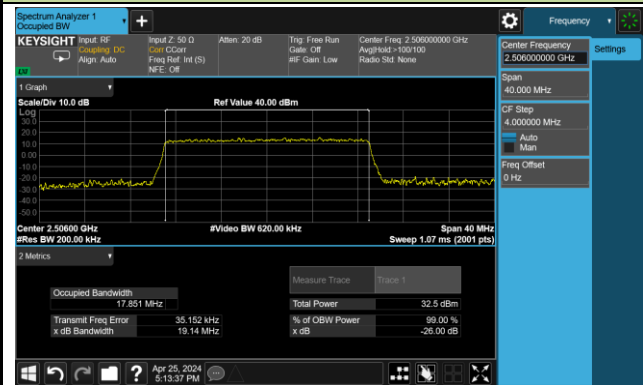


High Channel Bandwidth

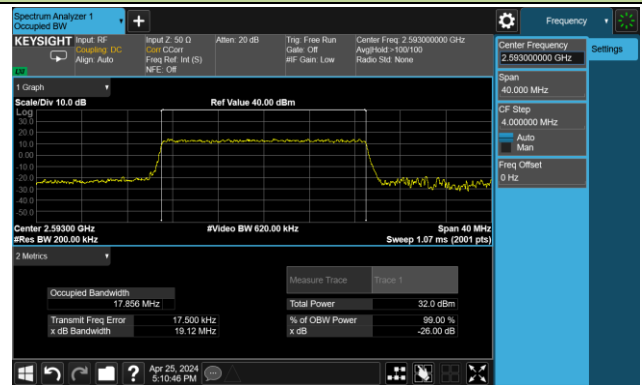


99% Bandwidth – 20MHz Bandwidth 64QAM

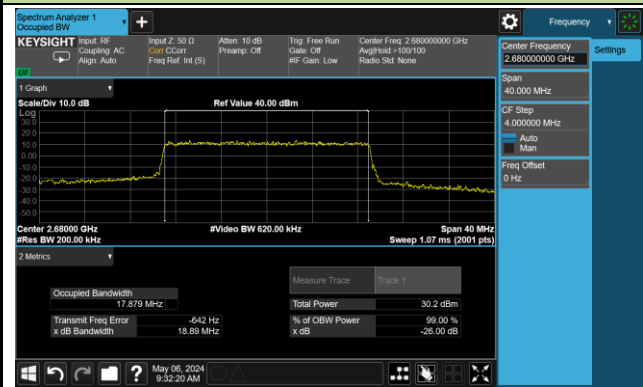
Low Channel Bandwidth



Middle Channel Bandwidth



High Channel Bandwidth



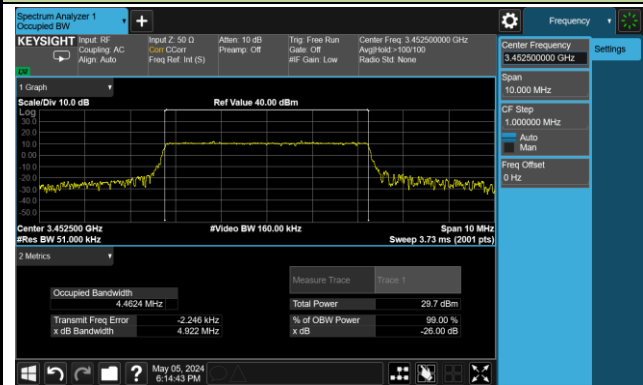
Test Site	SIP-SR1	Test Engineer	Yoniter Yang
Test Date	2024-05-05	Test Band	Band 42

Bandwidth (MHz)	Frequency (MHz)	99% Bandwidth (MHz)
QPSK		
5	3452.50	4.46
	3500.00	4.47
	3547.50	4.48
10	3455.00	8.96
	3500.00	8.95
	3545.00	8.96
15	3457.50	13.41
	3500.00	13.41
	3542.50	13.42
20	3460.00	17.87
	3500.00	17.91
	3540.00	17.86
16QAM		
5	3452.50	4.46
	3500.00	4.46
	3547.50	4.45
10	3455.00	8.94
	3500.00	8.95
	3545.00	8.95
15	3457.50	13.44
	3500.00	13.44
	3542.50	13.42
20	3460.00	17.91
	3500.00	17.92
	3540.00	17.86

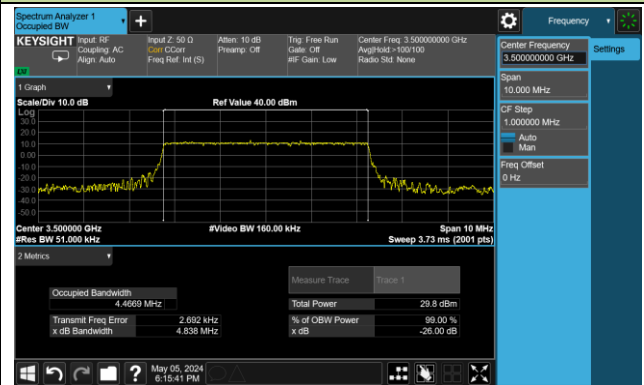
Bandwidth (MHz)	Frequency (MHz)	99% Bandwidth (MHz)
64QAM		
5	3452.50	4.46
	3500.00	4.45
	3547.50	4.45
10	3455.00	8.94
	3500.00	8.94
	3545.00	8.94
15	3457.50	13.43
	3500.00	13.38
	3542.50	13.40
20	3460.00	17.87
	3500.00	17.87
	3540.00	17.88

99% Bandwidth – 5MHz Bandwidth QPSK

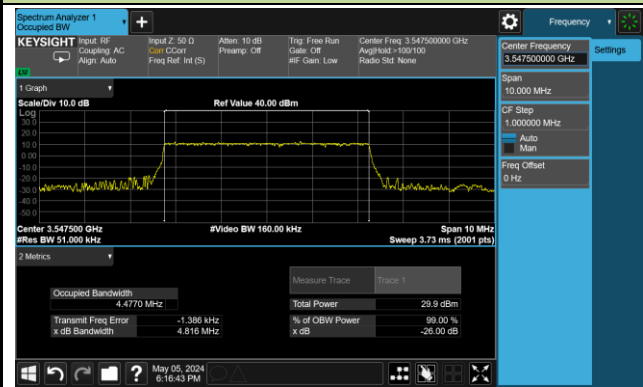
Low Channel Bandwidth



Middle Channel Bandwidth

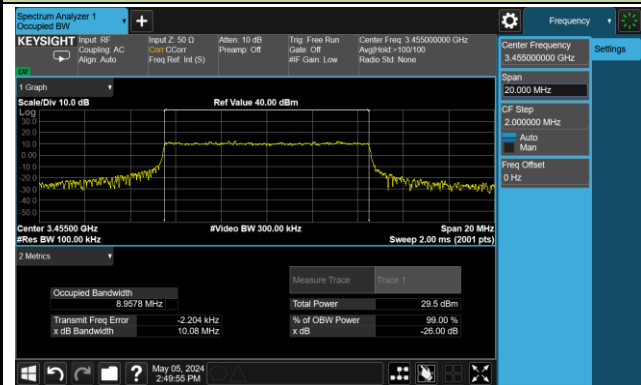


High Channel Bandwidth

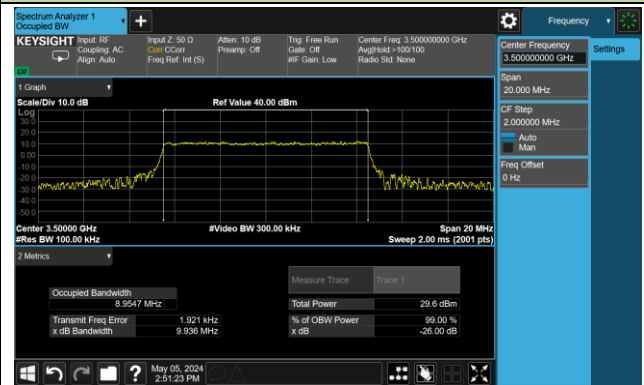


99% Bandwidth – 10MHz Bandwidth QPSK

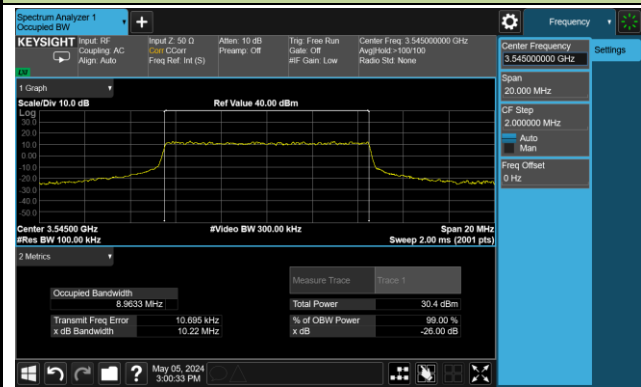
Low Channel Bandwidth



Middle Channel Bandwidth



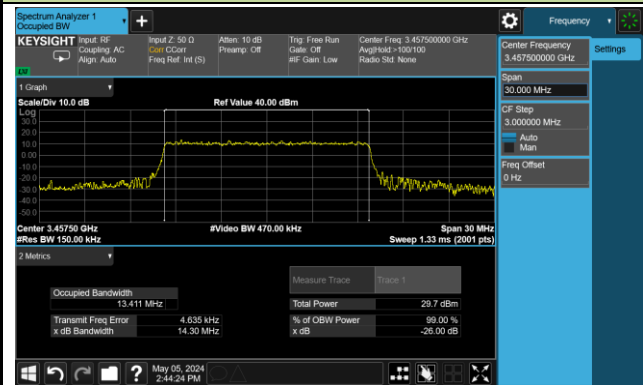
High Channel Bandwidth



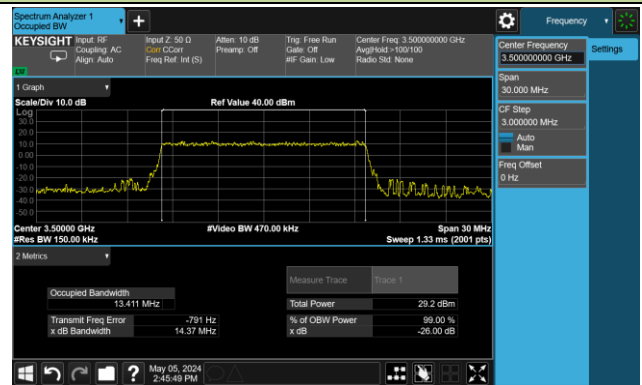


99% Bandwidth – 15MHz Bandwidth QPSK

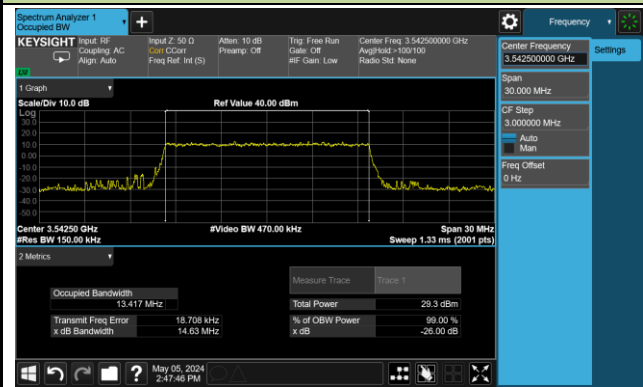
Low Channel Bandwidth



Middle Channel Bandwidth

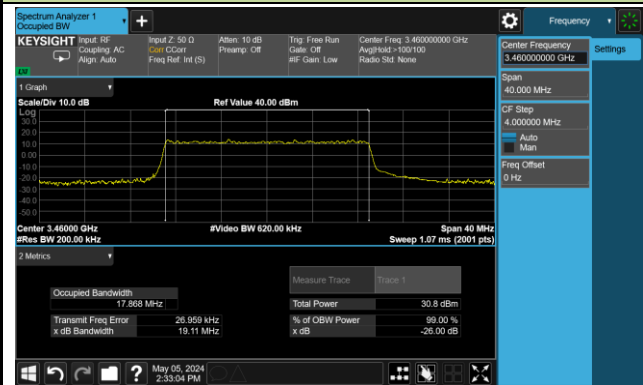


High Channel Bandwidth

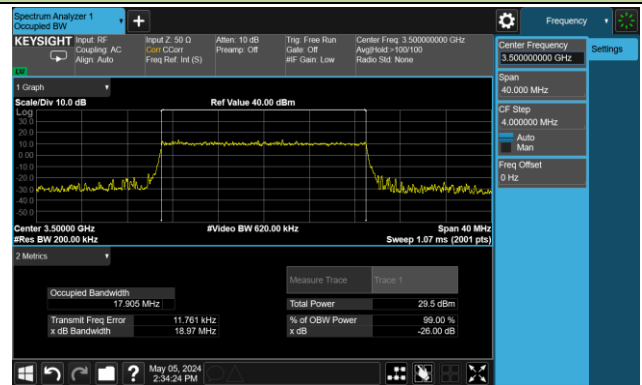


99% Bandwidth – 20MHz Bandwidth QPSK

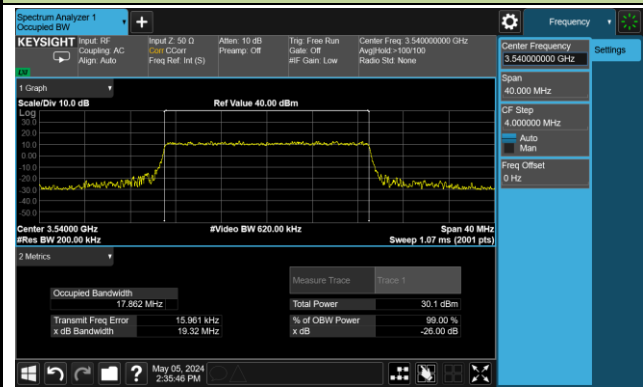
Low Channel Bandwidth



Middle Channel Bandwidth

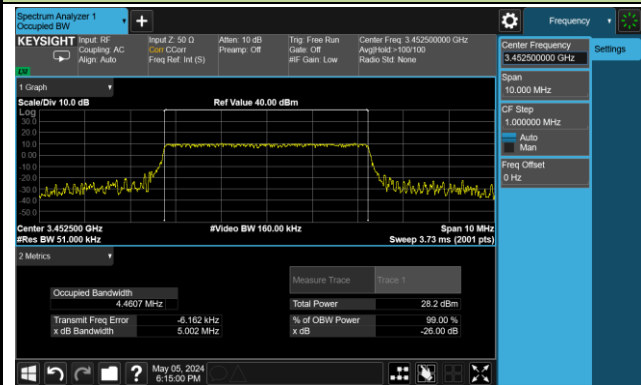


High Channel Bandwidth

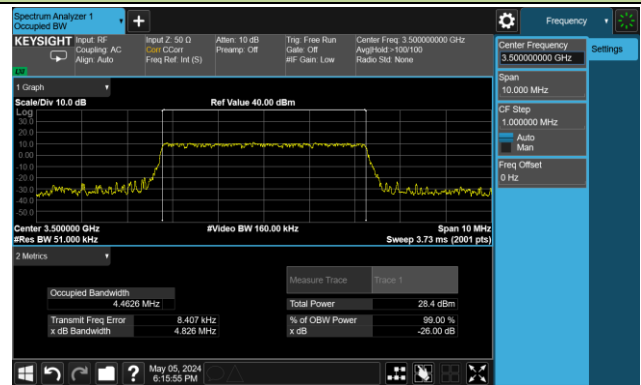


99% Bandwidth – 5MHz Bandwidth 16QAM

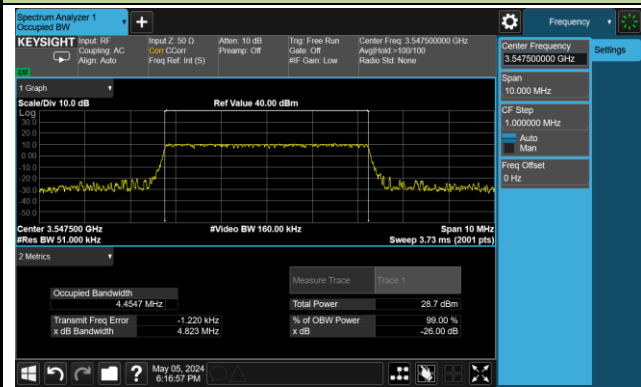
Low Channel Bandwidth



Middle Channel Bandwidth

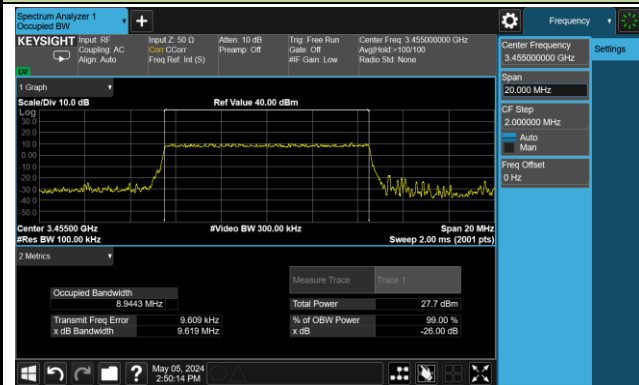


High Channel Bandwidth

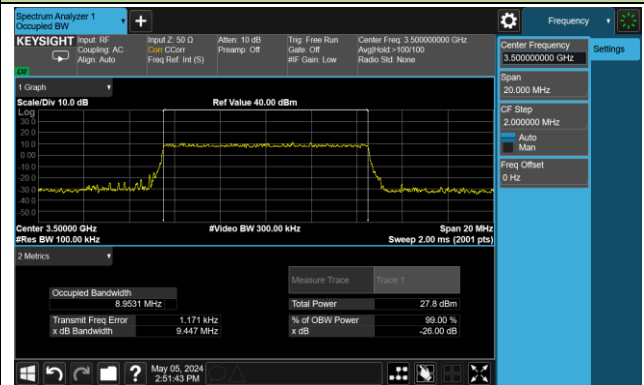


99% Bandwidth – 10MHz Bandwidth 16QAM

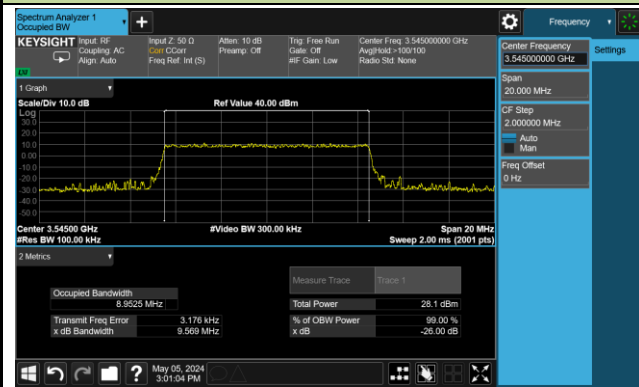
Low Channel Bandwidth



Middle Channel Bandwidth

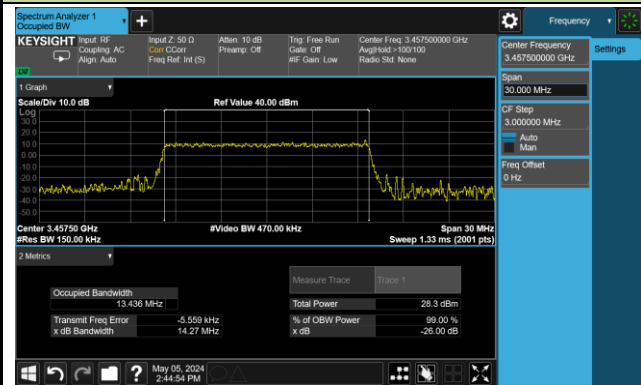


High Channel Bandwidth

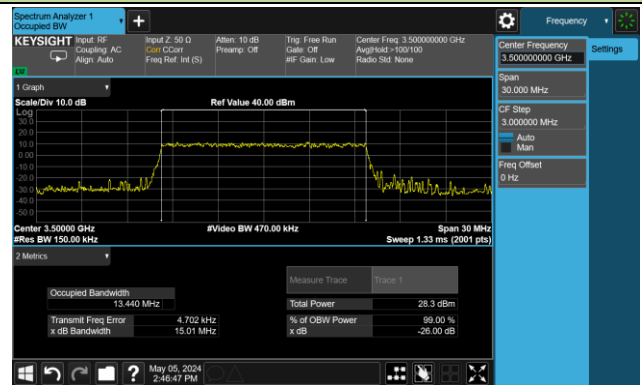


99% Bandwidth – 15MHz Bandwidth 16QAM

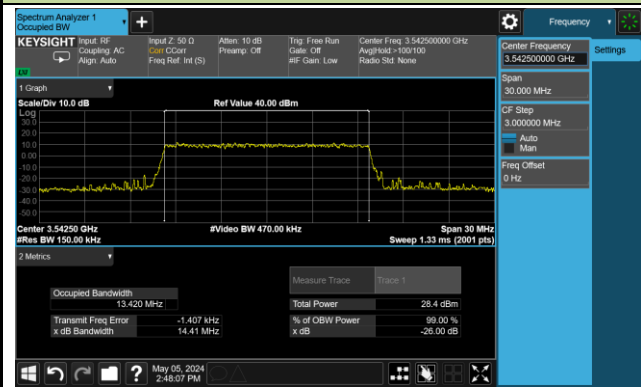
Low Channel Bandwidth



Middle Channel Bandwidth

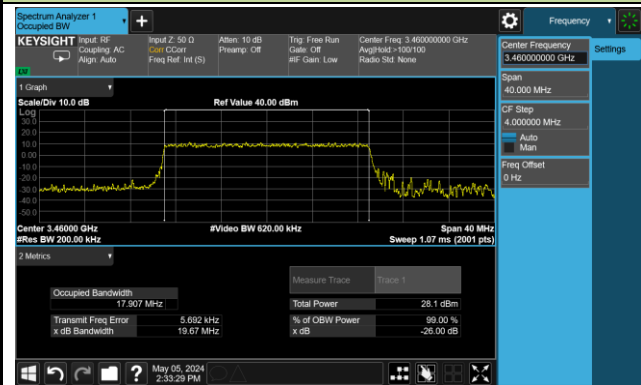


High Channel Bandwidth

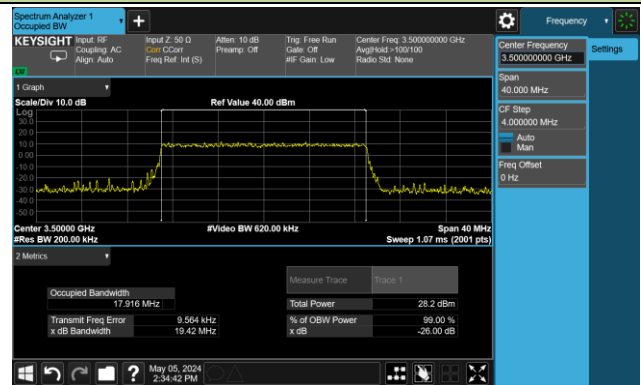


99% Bandwidth – 20MHz Bandwidth 16QAM

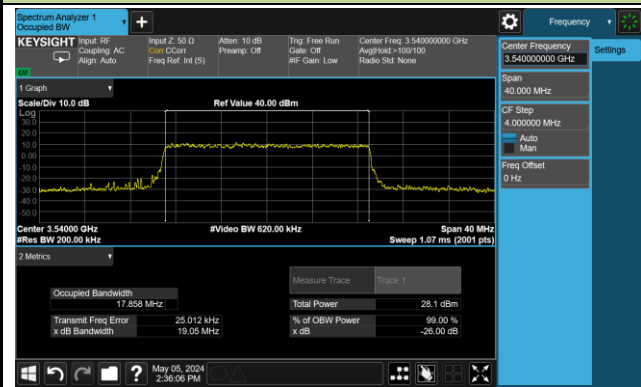
Low Channel Bandwidth



Middle Channel Bandwidth

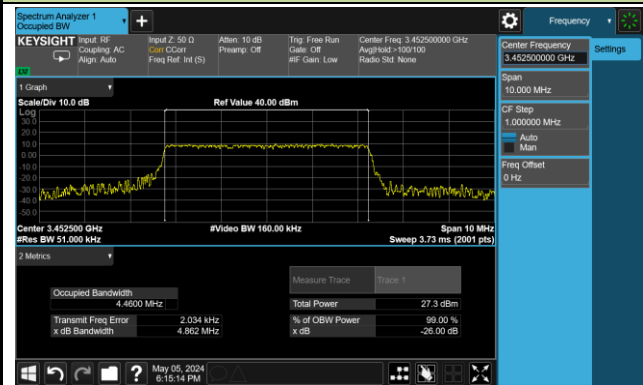


High Channel Bandwidth

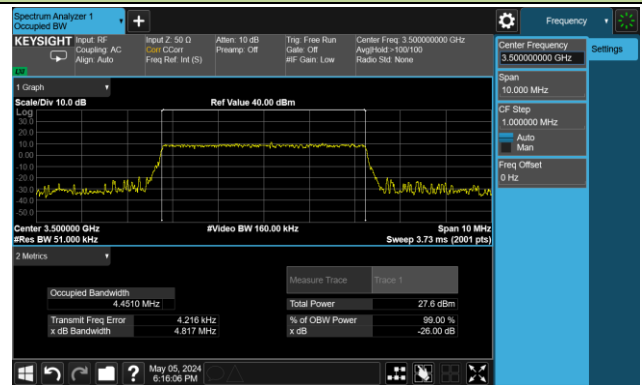


99% Bandwidth – 5MHz Bandwidth 64QAM

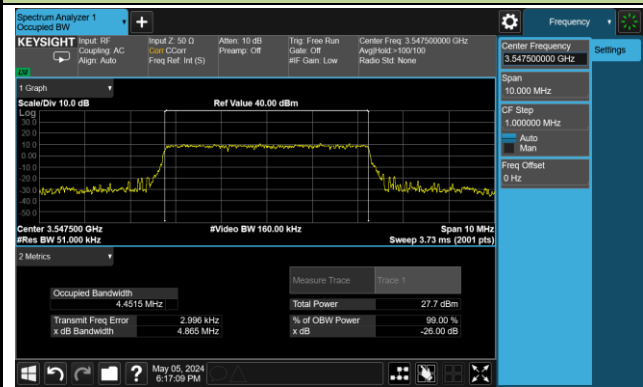
Low Channel Bandwidth



Middle Channel Bandwidth

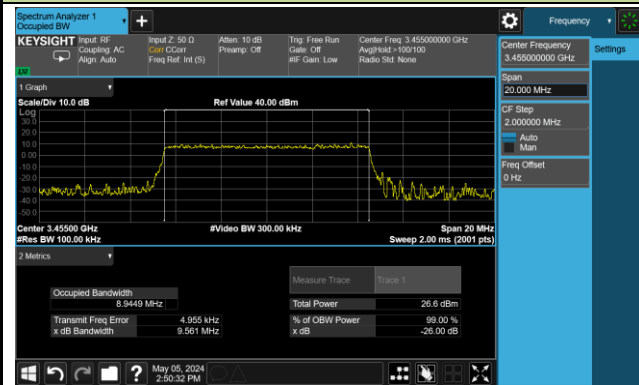


High Channel Bandwidth

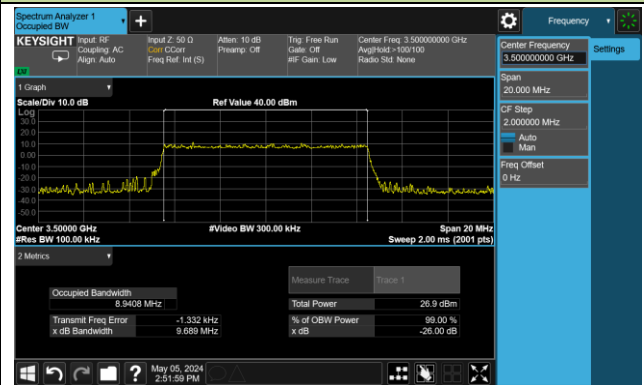


99% Bandwidth – 10MHz Bandwidth 64QAM

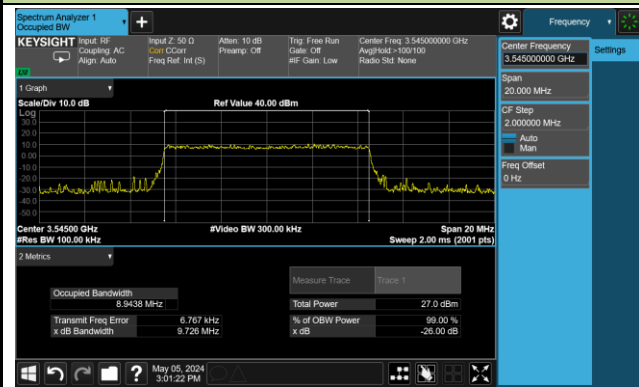
Low Channel Bandwidth



Middle Channel Bandwidth



High Channel Bandwidth



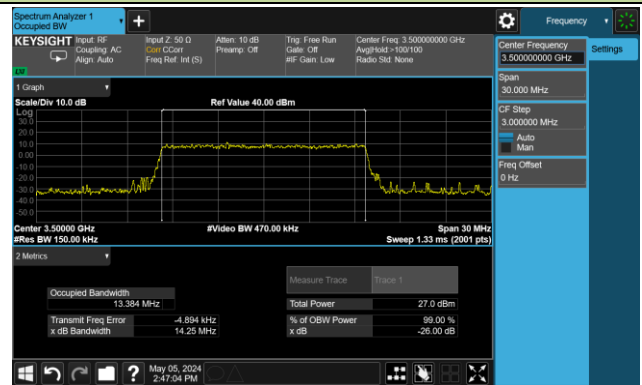


99% Bandwidth – 15MHz Bandwidth 64QAM

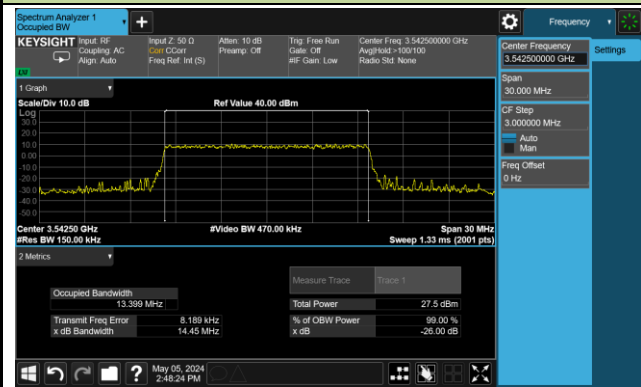
Low Channel Bandwidth



Middle Channel Bandwidth

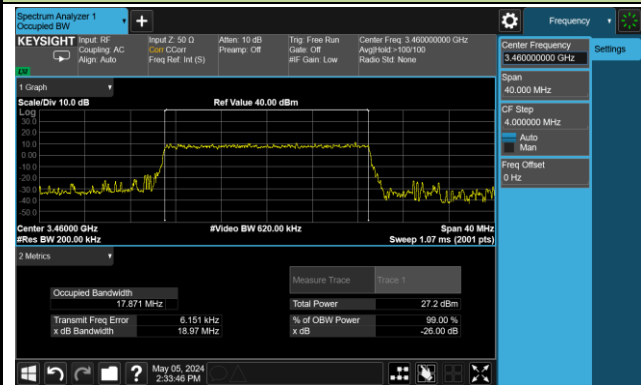


High Channel Bandwidth

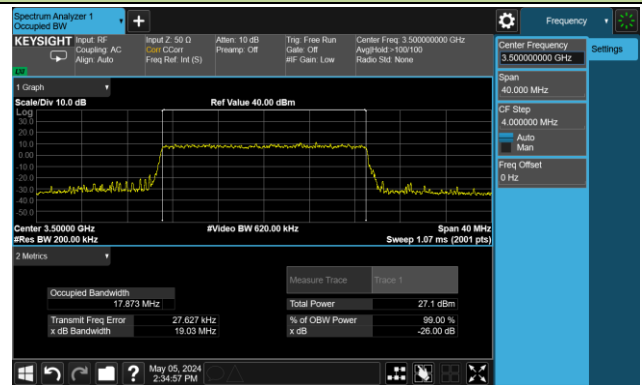


99% Bandwidth – 20MHz Bandwidth 64QAM

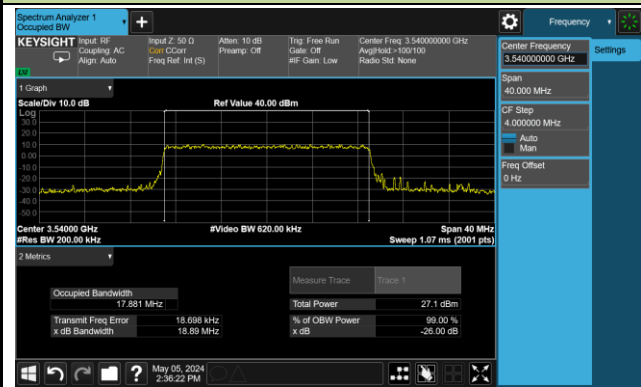
Low Channel Bandwidth



Middle Channel Bandwidth



High Channel Bandwidth



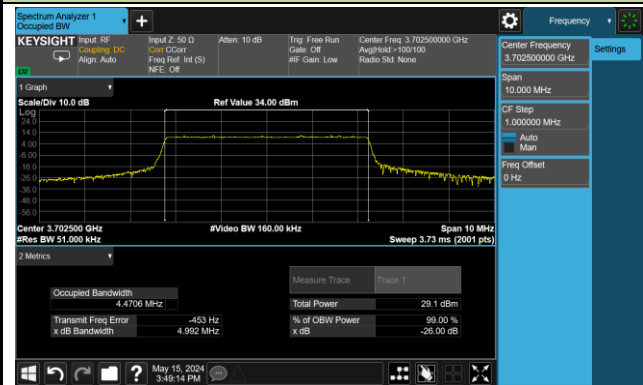
Test Site	SIP-SR1	Test Engineer	Yoniter Yang
Test Date	2024-05-15	Test Band	Band 43

Bandwidth (MHz)	Frequency (MHz)	99% Bandwidth (MHz)
QPSK		
5	3702.50	4.47
	3750.00	4.48
	3797.50	4.47
10	3705.00	8.96
	3750.00	8.95
	3795.00	8.96
15	3707.50	13.42
	3750.00	13.41
	3792.50	13.41
20	3710.00	17.87
	3750.00	17.88
	3790.00	17.88
16QAM		
5	3702.50	4.47
	3750.00	4.46
	3797.50	4.47
10	3705.00	8.96
	3750.00	8.94
	3795.00	8.95
15	3707.50	13.42
	3750.00	13.44
	3792.50	13.42
20	3710.00	17.85
	3750.00	17.87
	3790.00	17.90

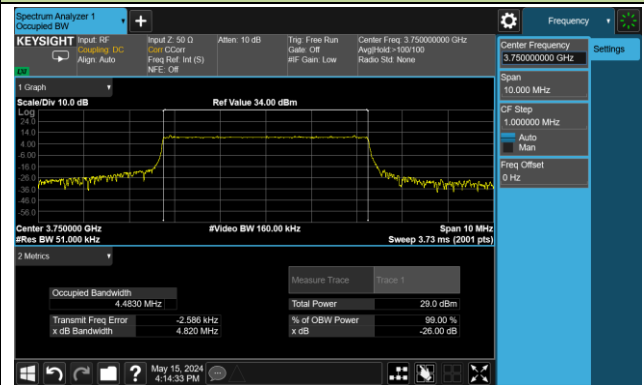
Bandwidth (MHz)	Frequency (MHz)	99% Bandwidth (MHz)
64QAM		
5	3702.50	4.47
	3750.00	4.47
	3797.50	4.46
10	3705.00	8.94
	3750.00	8.95
	3795.00	8.95
15	3707.50	13.40
	3750.00	13.40
	3792.50	13.39
20	3710.00	17.86
	3750.00	17.85
	3790.00	17.88

99% Bandwidth – 5MHz Bandwidth QPSK

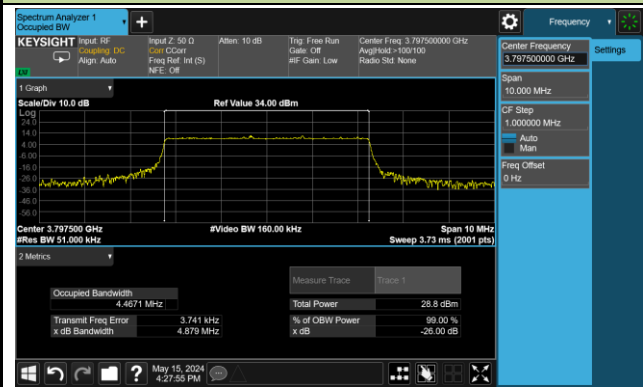
Low Channel Bandwidth



Middle Channel Bandwidth

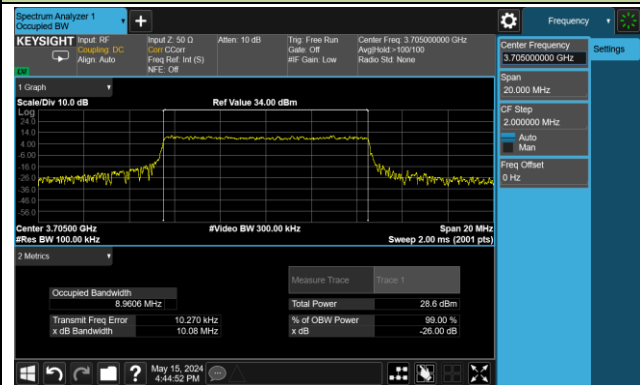


High Channel Bandwidth

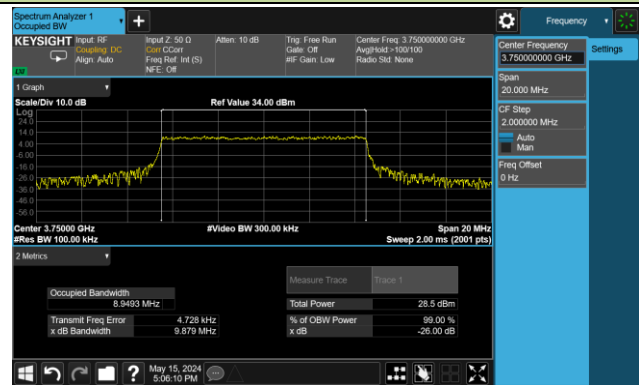


99% Bandwidth – 10MHz Bandwidth QPSK

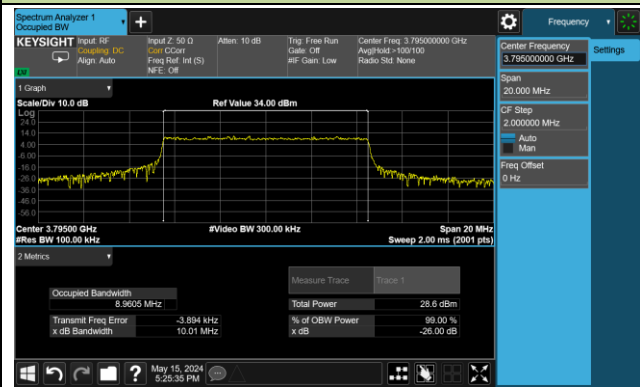
Low Channel Bandwidth



Middle Channel Bandwidth

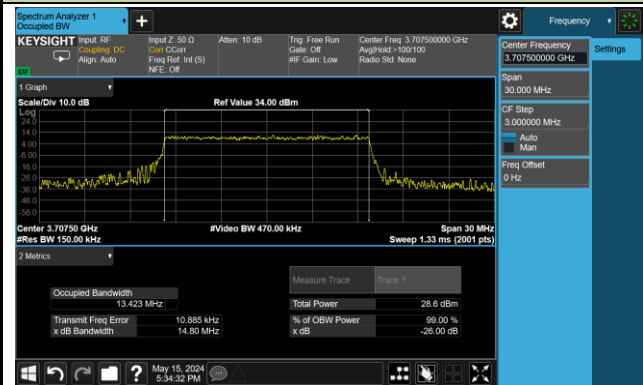


High Channel Bandwidth

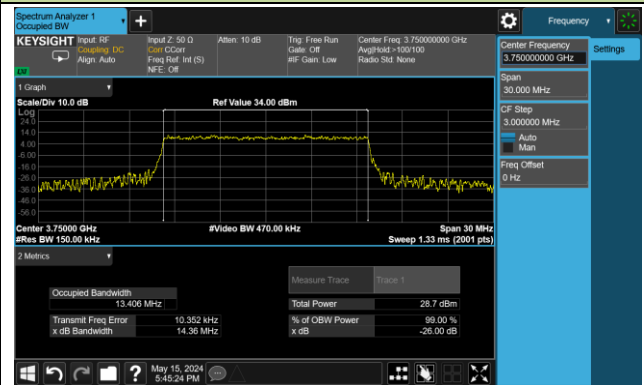


99% Bandwidth – 15MHz Bandwidth QPSK

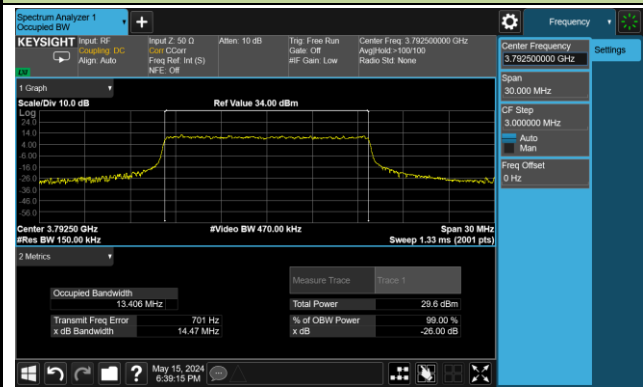
Low Channel Bandwidth



Middle Channel Bandwidth

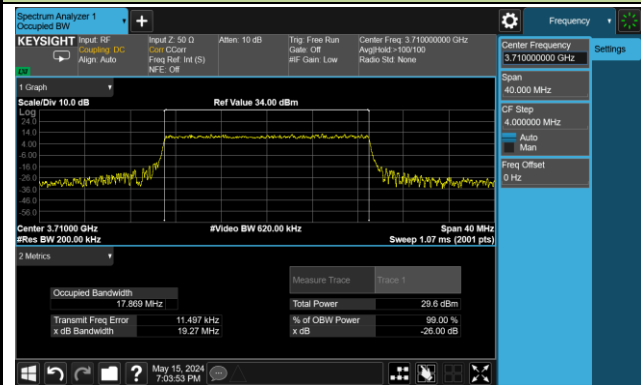


High Channel Bandwidth

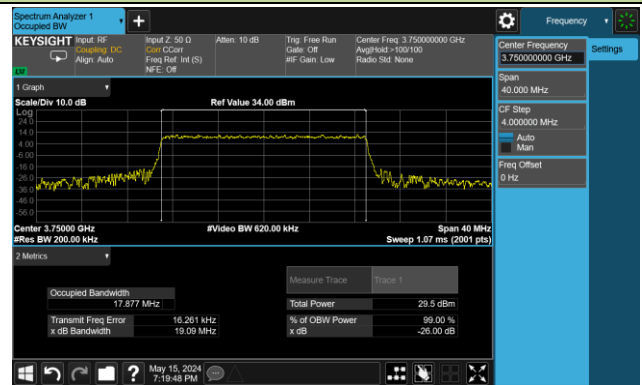


99% Bandwidth – 20MHz Bandwidth QPSK

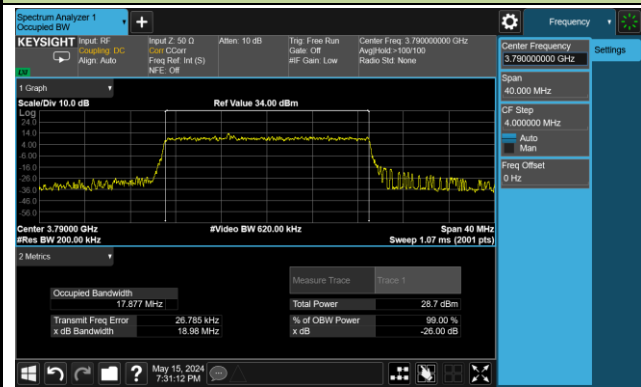
Low Channel Bandwidth



Middle Channel Bandwidth



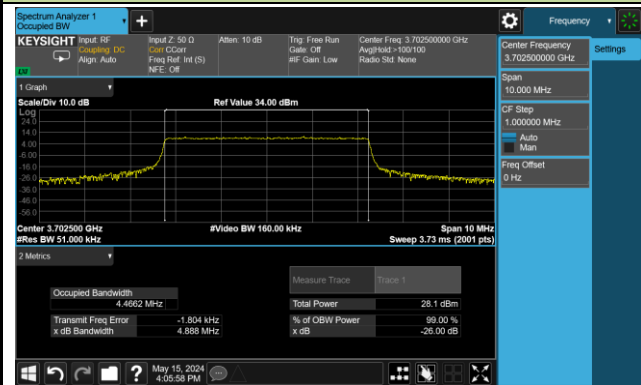
High Channel Bandwidth



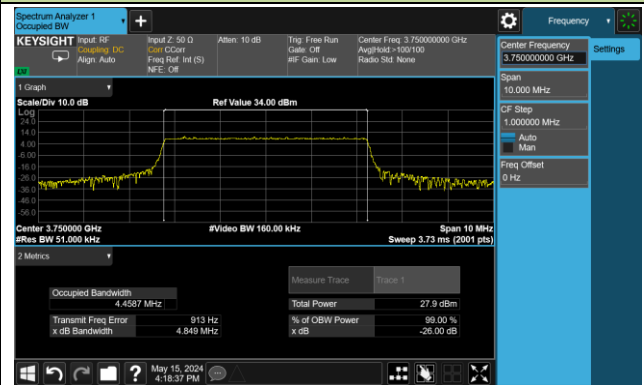


99% Bandwidth – 5MHz Bandwidth 16QAM

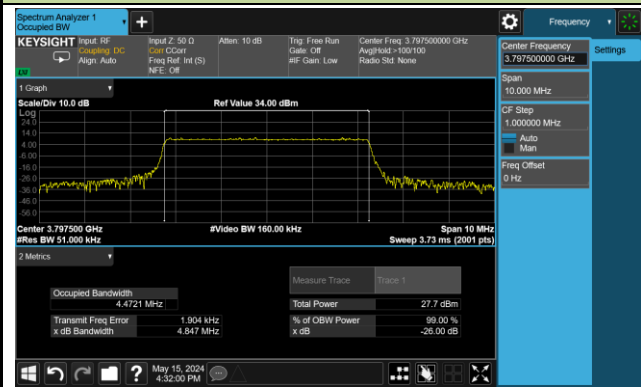
Low Channel Bandwidth



Middle Channel Bandwidth

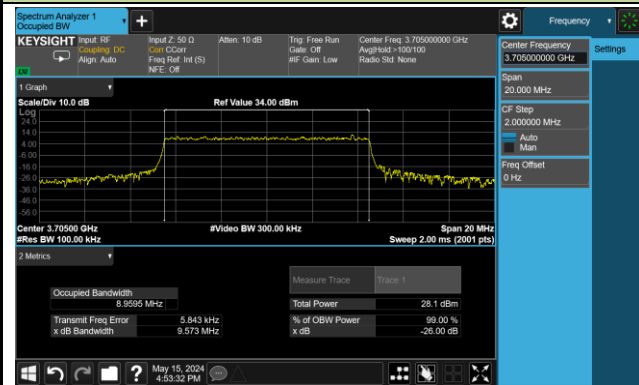


High Channel Bandwidth

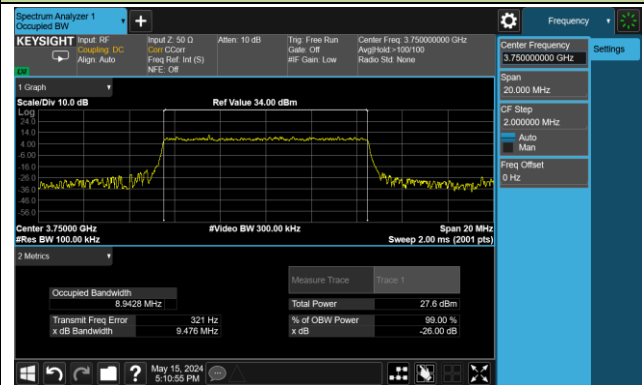


99% Bandwidth – 10MHz Bandwidth 16QAM

Low Channel Bandwidth



Middle Channel Bandwidth



High Channel Bandwidth

