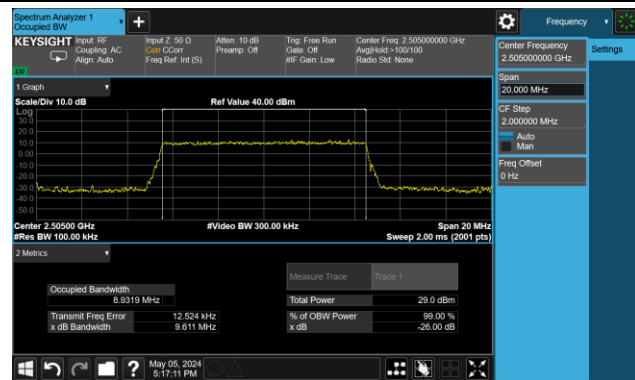
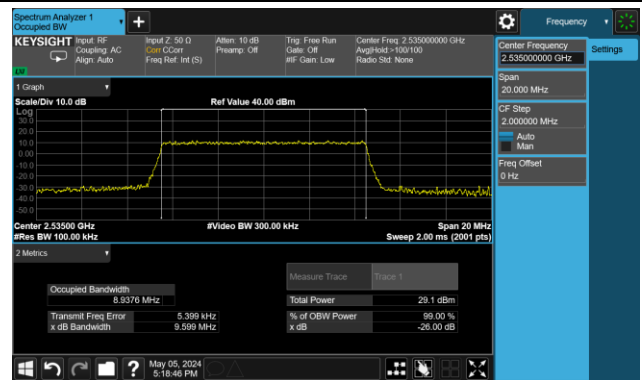


99% Bandwidth – 10MHz Bandwidth 64QAM

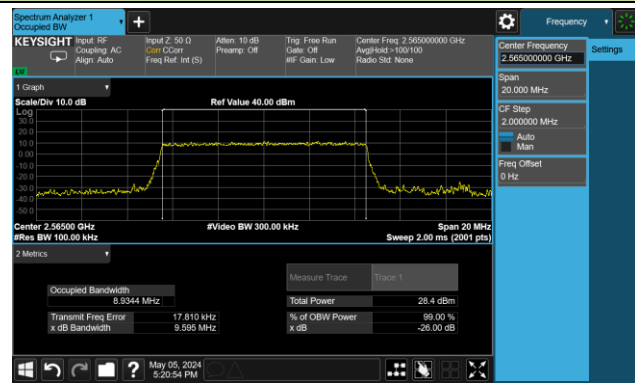
Low Channel Bandwidth



Middle Channel Bandwidth

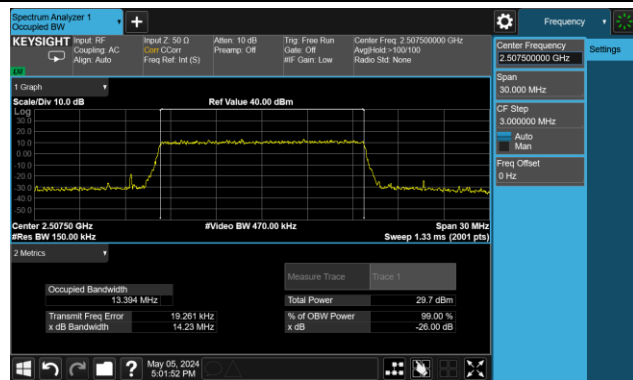


High Channel Bandwidth

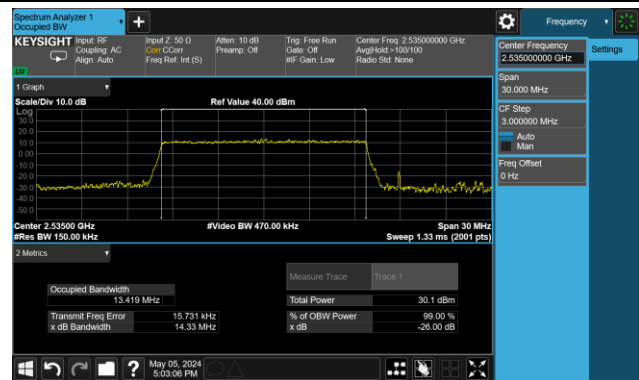


99% Bandwidth – 15MHz Bandwidth 64QAM

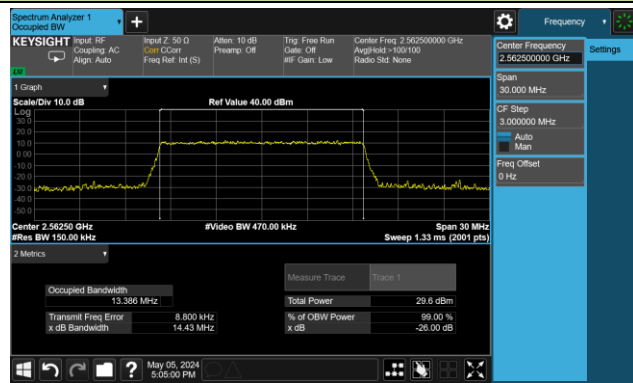
Low Channel Bandwidth



Middle Channel Bandwidth

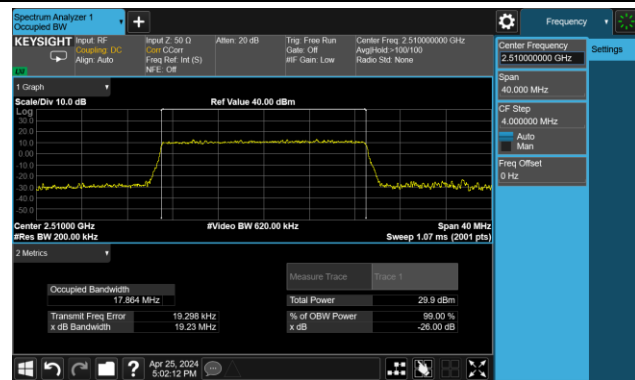


High Channel Bandwidth

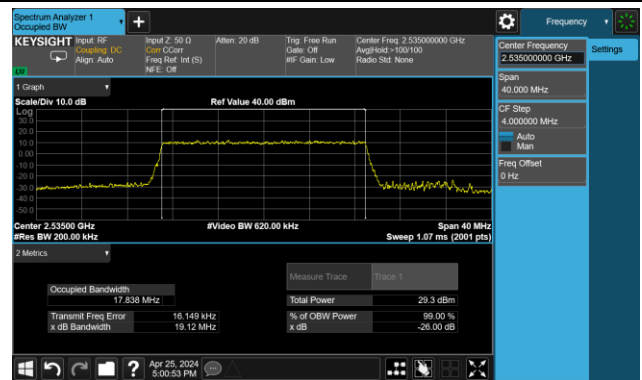


99% Bandwidth – 20MHz Bandwidth 64QAM

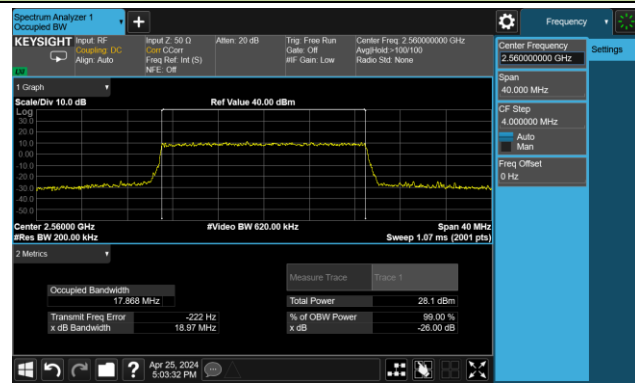
Low Channel Bandwidth



Middle Channel Bandwidth



High Channel Bandwidth



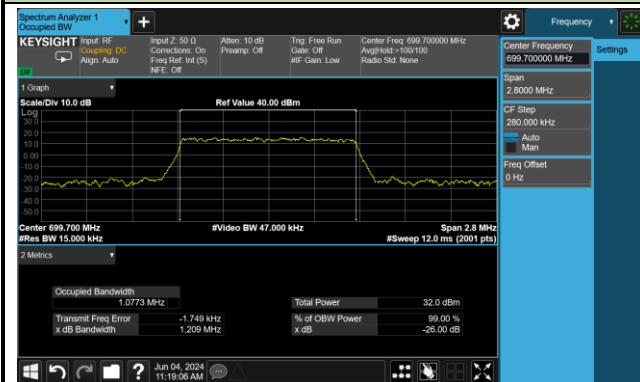
Test Site	SIP-SR1	Test Engineer	Yoniter Yang
Test Date	2024-05-05 ~ 2024-06-04	Test Band	Band 12

Bandwidth (MHz)	Frequency (MHz)	99% Bandwidth (MHz)
QPSK		
1.4	699.70	1.08
	707.50	1.08
	715.30	1.08
3	700.50	2.69
	707.50	2.69
	714.50	2.68
5	701.50	4.46
	707.50	4.48
	713.50	4.48
10	704.00	8.96
	707.50	8.93
	711.00	8.95
16QAM		
1.4	699.70	1.08
	707.50	1.08
	715.30	1.08
3	700.50	2.68
	707.50	2.68
	714.50	2.68
5	701.50	4.47
	707.50	4.46
	713.50	4.46
10	704.00	8.95
	707.50	8.94
	711.00	8.94

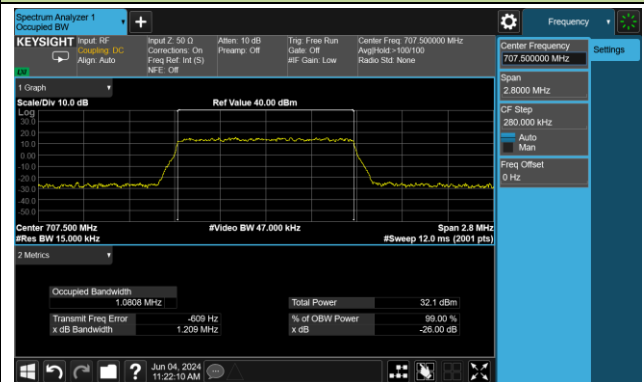
Bandwidth (MHz)	Frequency (MHz)	99% Bandwidth (MHz)
64QAM		
1.4	699.70	1.08
	707.50	1.08
	715.30	1.08
3	700.50	2.69
	707.50	2.68
	714.50	2.69
5	701.50	4.47
	707.50	4.46
	713.50	4.47
10	704.00	8.95
	707.50	8.93
	711.00	8.93

99% Bandwidth – 1.4MHz Bandwidth QPSK

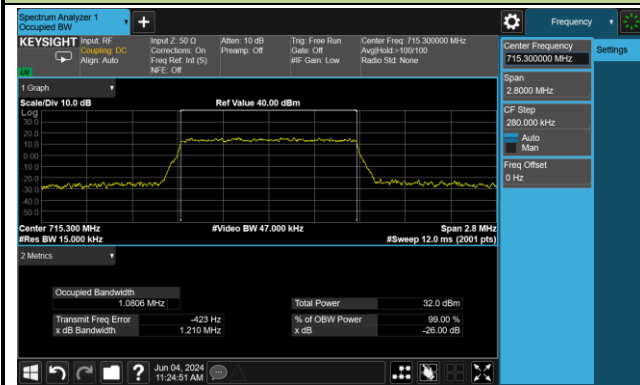
Low Channel Bandwidth



Middle Channel Bandwidth

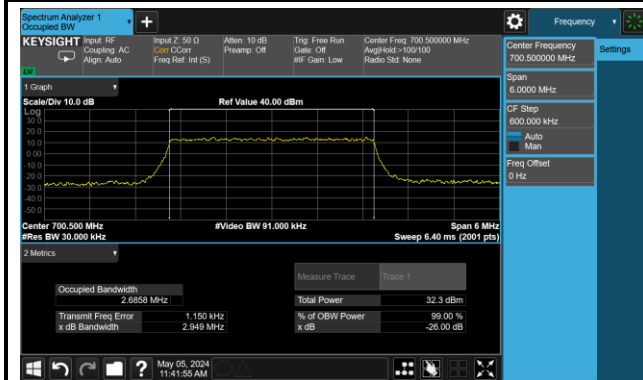


High Channel Bandwidth



99% Bandwidth – 3MHz Bandwidth QPSK

Low Channel Bandwidth



Middle Channel Bandwidth

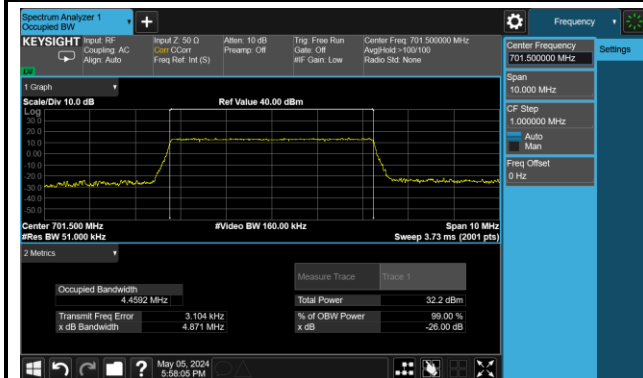


High Channel Bandwidth

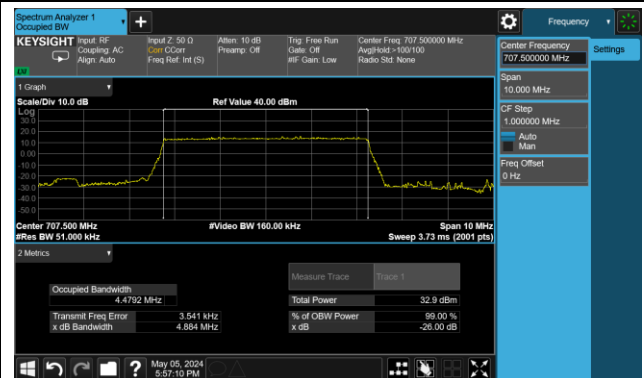


99% Bandwidth – 5MHz Bandwidth QPSK

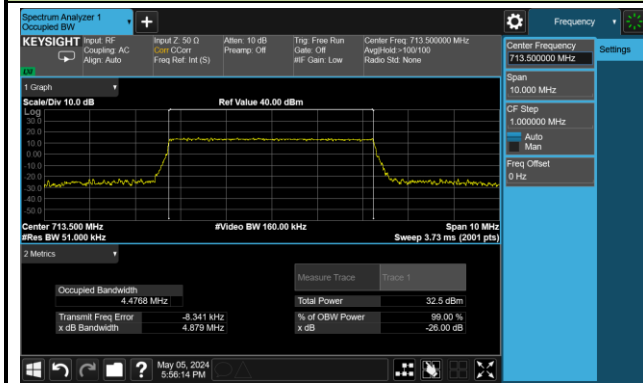
Low Channel Bandwidth



Middle Channel Bandwidth

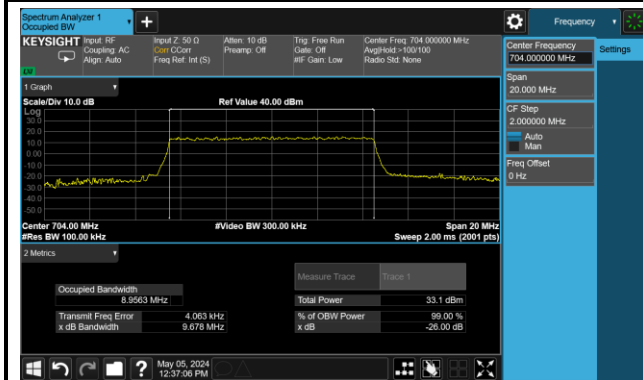


High Channel Bandwidth



99% Bandwidth – 10MHz Bandwidth QPSK

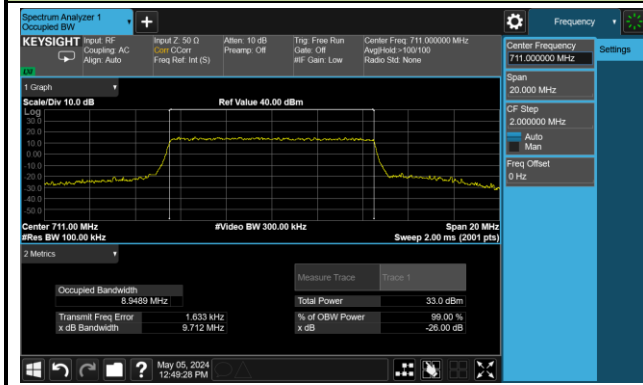
Low Channel Bandwidth



Middle Channel Bandwidth

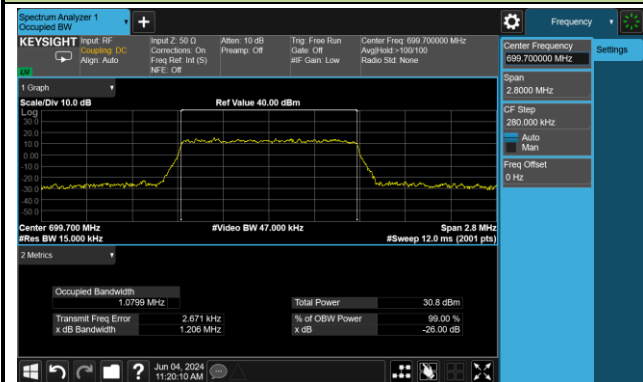


High Channel Bandwidth

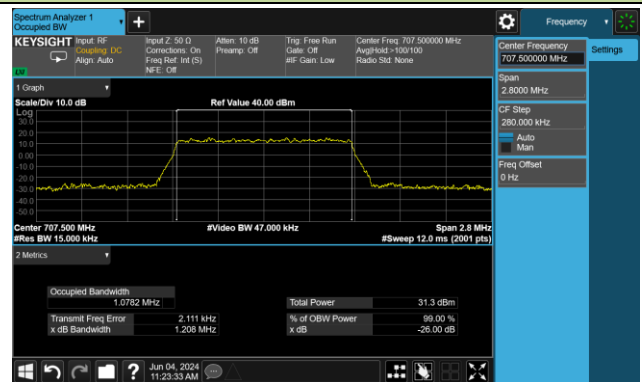


99% Bandwidth – 1.4MHz Bandwidth 16QAM

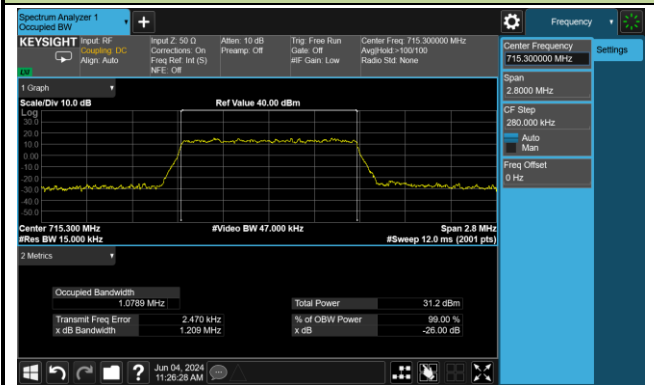
Low Channel Bandwidth



Middle Channel Bandwidth

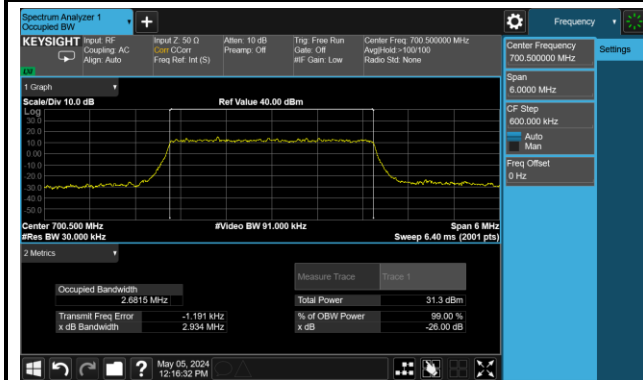


High Channel Bandwidth



99% Bandwidth – 3MHz Bandwidth 16QAM

Low Channel Bandwidth



Middle Channel Bandwidth

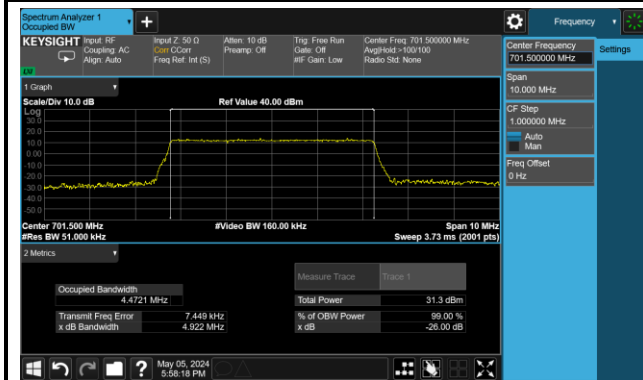


High Channel Bandwidth



99% Bandwidth – 5MHz Bandwidth 16QAM

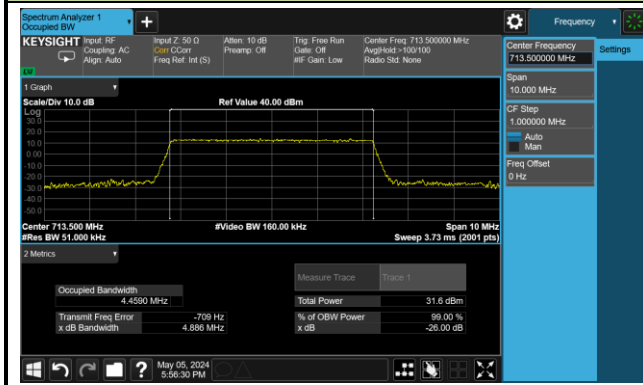
Low Channel Bandwidth



Middle Channel Bandwidth

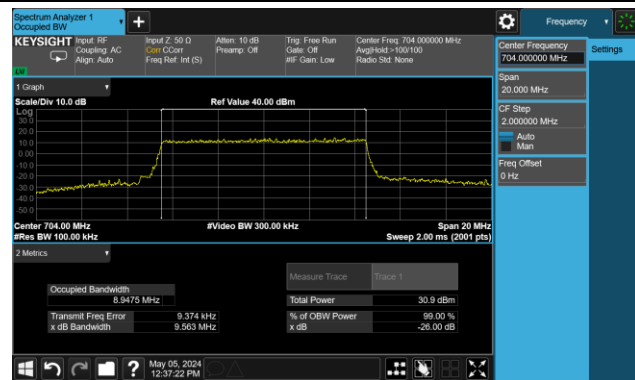


High Channel Bandwidth

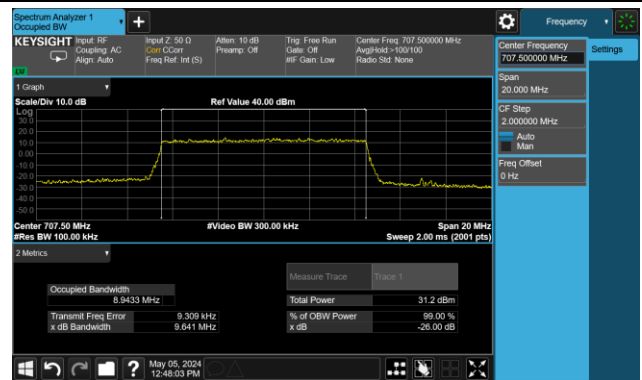


99% Bandwidth – 10MHz Bandwidth 16QAM

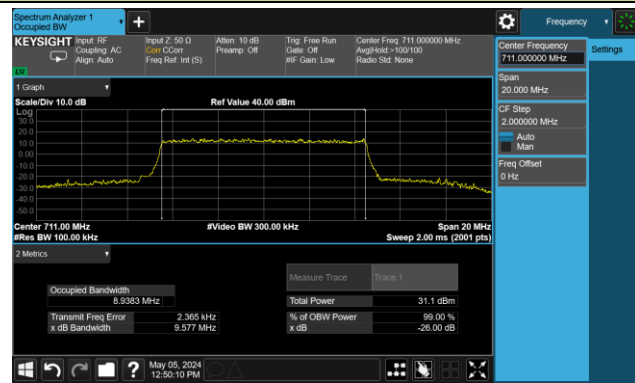
Low Channel Bandwidth



Middle Channel Bandwidth

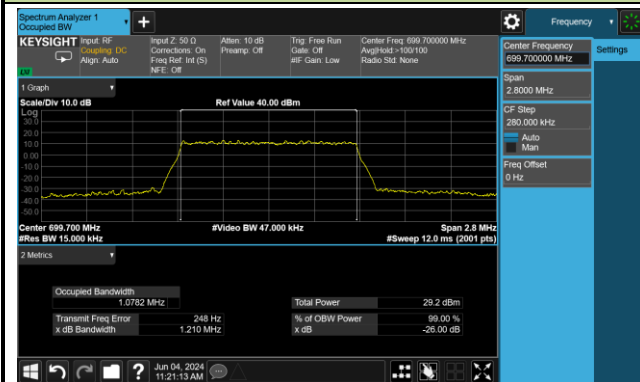


High Channel Bandwidth

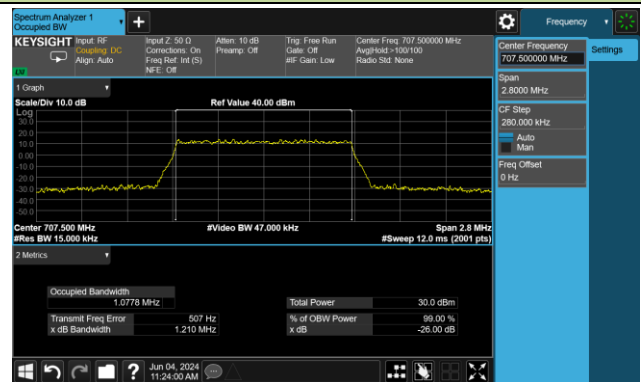


99% Bandwidth – 1.4MHz Bandwidth 64QAM

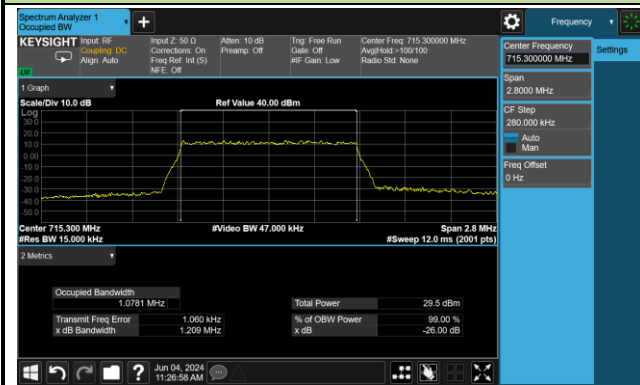
Low Channel Bandwidth



Middle Channel Bandwidth

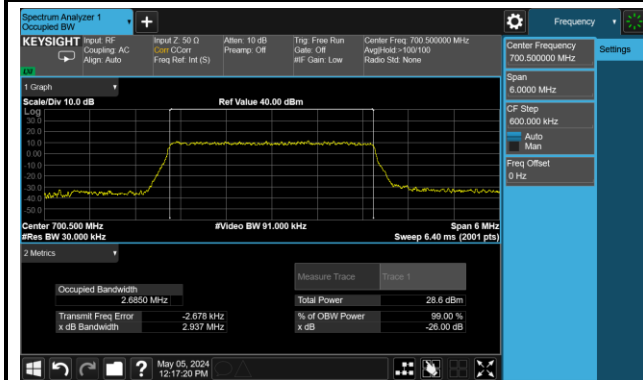


High Channel Bandwidth



99% Bandwidth – 3MHz Bandwidth 64QAM

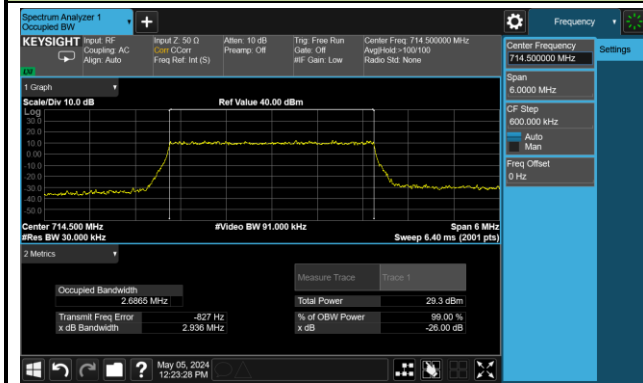
Low Channel Bandwidth



Middle Channel Bandwidth

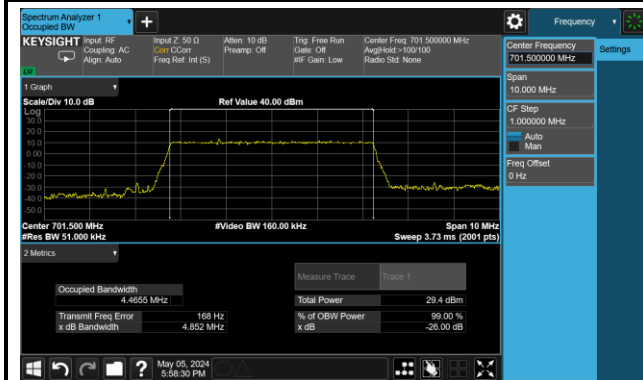


High Channel Bandwidth



99% Bandwidth – 5MHz Bandwidth 64QAM

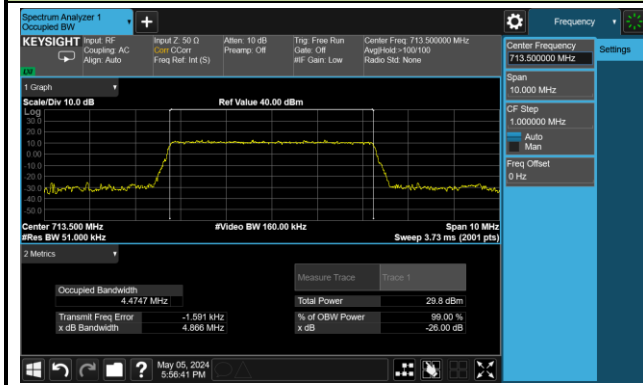
Low Channel Bandwidth



Middle Channel Bandwidth



High Channel Bandwidth

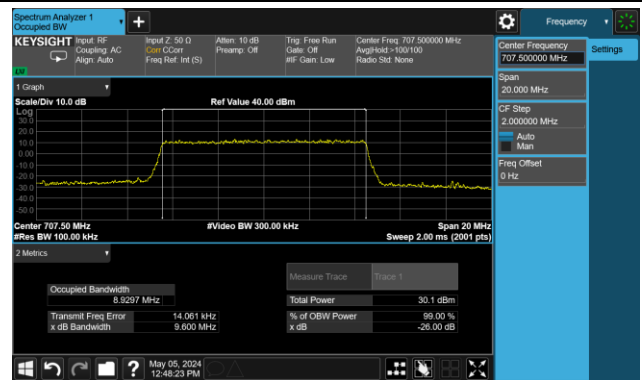


99% Bandwidth – 10MHz Bandwidth 64QAM

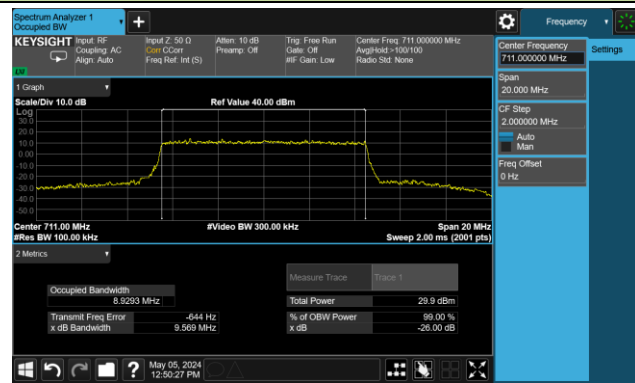
Low Channel Bandwidth



Middle Channel Bandwidth



High Channel Bandwidth



Test Site	SIP-SR1	Test Engineer	Yoniter Yang
Test Date	2024-05-05	Test Band	Band 13

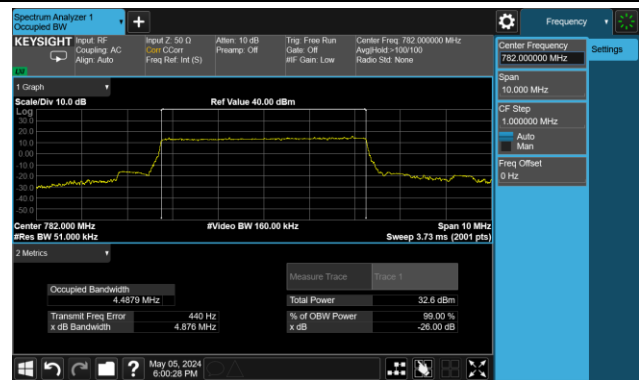
Bandwidth (MHz)	Frequency (MHz)	99% Bandwidth (MHz)
QPSK		
5	779.50	4.46
	782.00	4.49
	784.50	4.47
10	782.00	8.96
16QAM		
5	779.50	4.46
	782.00	4.47
	784.50	4.46
10	782.00	8.94
64QAM		
5	779.50	4.45
	782.00	4.48
	784.50	4.46
10	782.00	8.94

99% Bandwidth – 5MHz Bandwidth QPSK

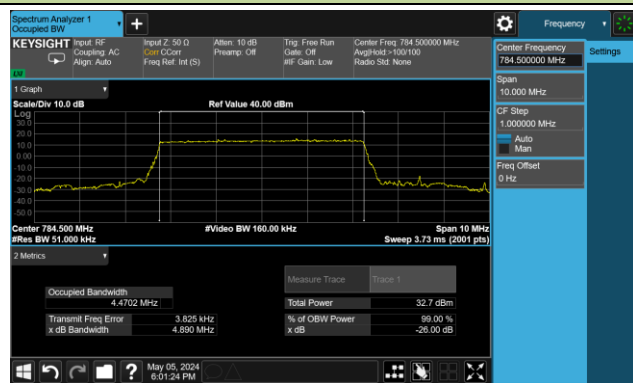
Low Channel Bandwidth



Middle Channel Bandwidth



High Channel Bandwidth



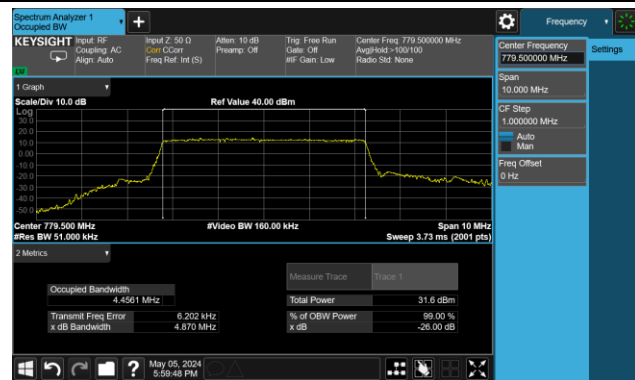
99% Bandwidth – 10MHz Bandwidth QPSK

Middle Channel Bandwidth

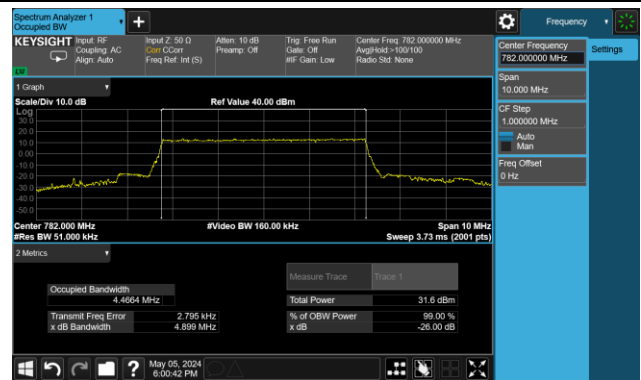


99% Bandwidth – 5MHz Bandwidth 16QAM

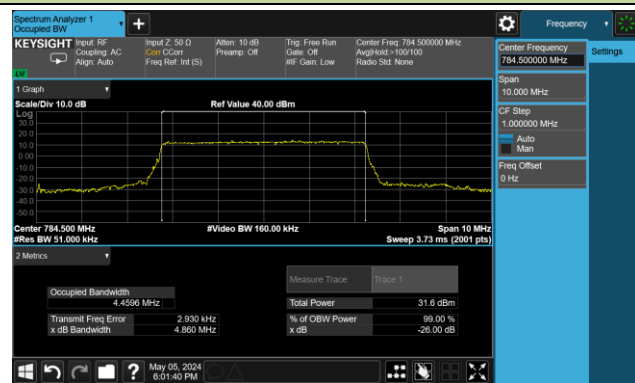
Low Channel Bandwidth



Middle Channel Bandwidth



High Channel Bandwidth



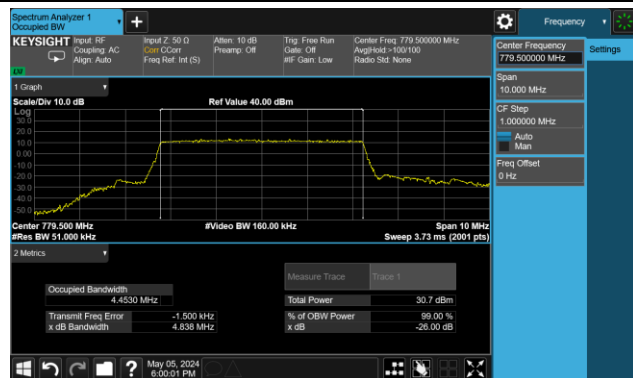
99% Bandwidth – 10MHz Bandwidth 16QAM

Middle Channel Bandwidth

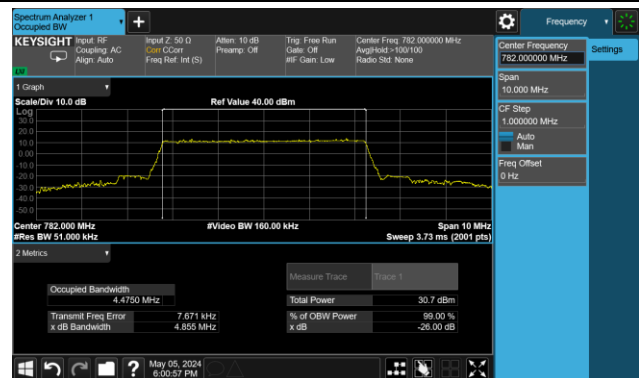


99% Bandwidth – 5MHz Bandwidth 64QAM

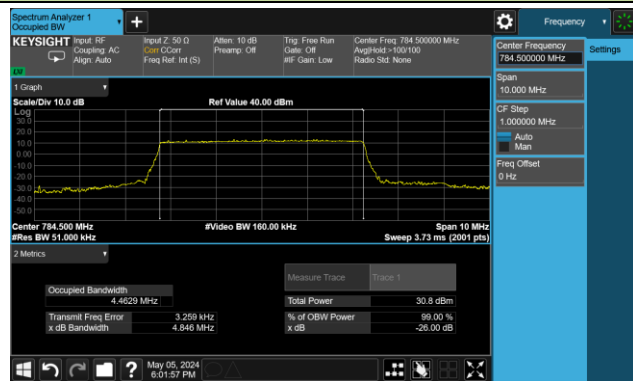
Low Channel Bandwidth



Middle Channel Bandwidth



High Channel Bandwidth



99% Bandwidth – 10MHz Bandwidth 64QAM

Middle Channel Bandwidth



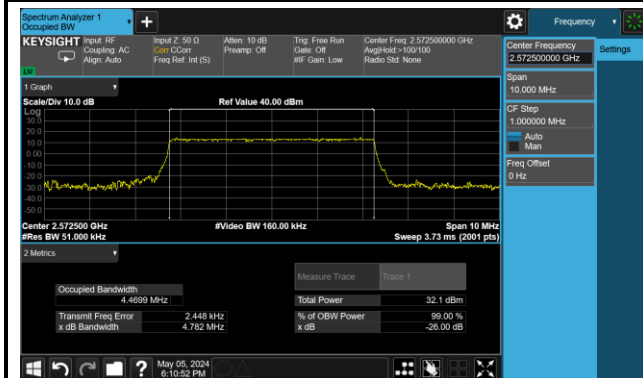
Test Site	SIP-SR1	Test Engineer	Yoniter Yang
Test Date	2024-05-05	Test Band	Band 38

Bandwidth (MHz)	Frequency (MHz)	99% Bandwidth (MHz)
QPSK		
5	2572.50	4.47
	2595.00	4.46
	2617.50	4.46
10	2575.00	8.93
	2595.00	8.94
	2615.00	8.94
15	2577.50	13.39
	2595.00	13.37
	2612.50	13.40
20	2580.00	17.83
	2595.00	17.82
	2610.00	17.85
16QAM		
5	2572.50	4.46
	2595.00	4.46
	2617.50	4.45
10	2575.00	8.94
	2595.00	8.93
	2615.00	8.93
15	2577.50	13.41
	2595.00	13.40
	2612.50	13.43
20	2580.00	17.85
	2595.00	17.85
	2610.00	17.88

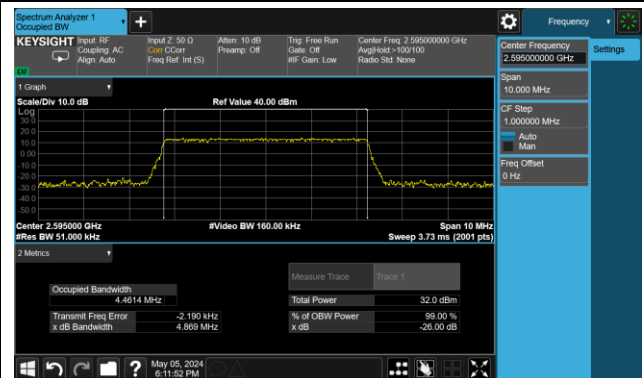
Bandwidth (MHz)	Frequency (MHz)	99% Bandwidth (MHz)
64QAM		
5	2572.50	4.45
	2595.00	4.46
	2617.50	4.46
10	2575.00	8.96
	2595.00	8.93
	2615.00	8.95
15	2577.50	13.39
	2595.00	13.39
	2612.50	13.40
20	2580.00	17.84
	2595.00	17.83
	2610.00	17.88

99% Bandwidth – 5MHz Bandwidth QPSK

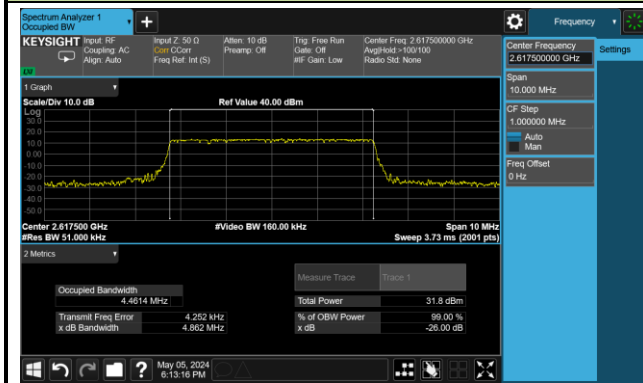
Low Channel Bandwidth



Middle Channel Bandwidth

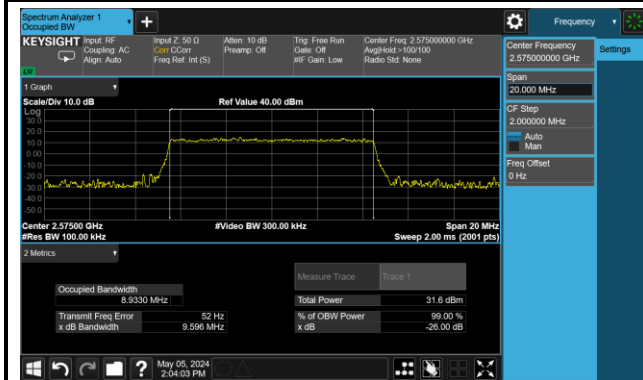


High Channel Bandwidth

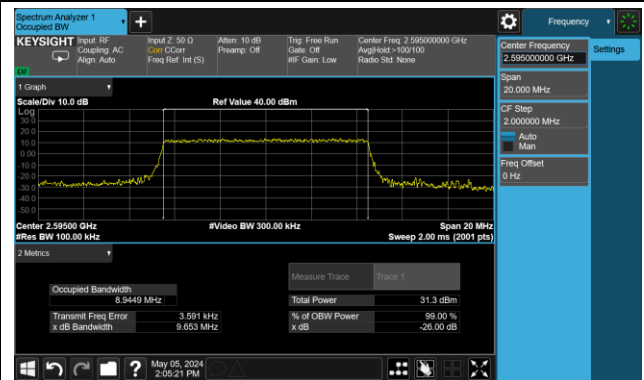


99% Bandwidth – 10MHz Bandwidth QPSK

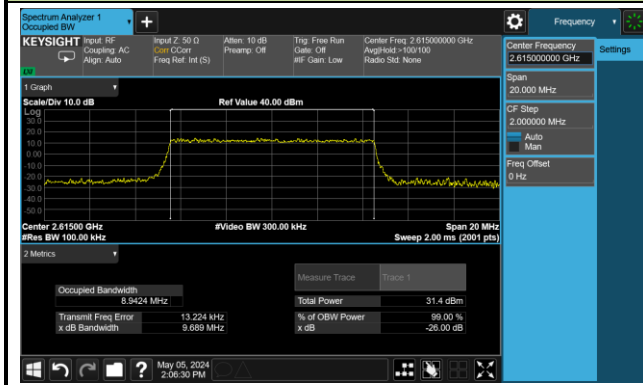
Low Channel Bandwidth



Middle Channel Bandwidth

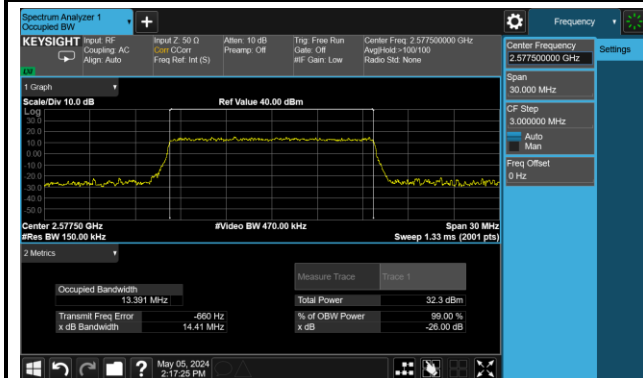


High Channel Bandwidth

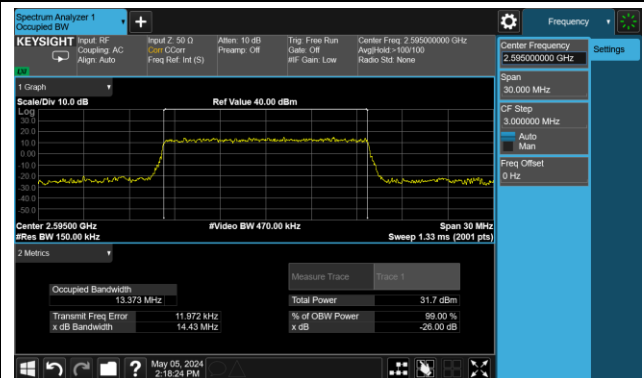


99% Bandwidth – 15MHz Bandwidth QPSK

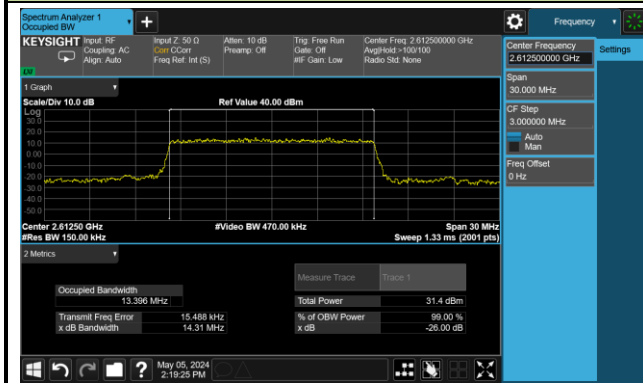
Low Channel Bandwidth



Middle Channel Bandwidth

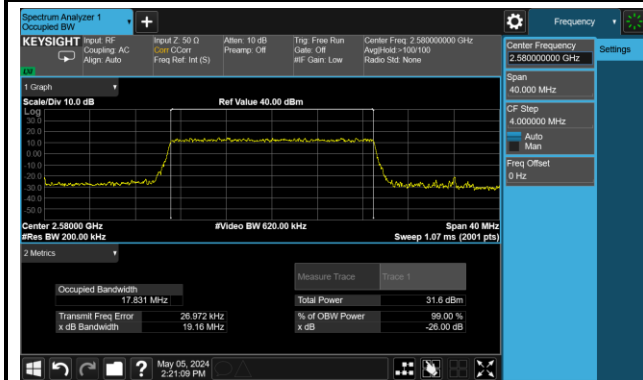


High Channel Bandwidth

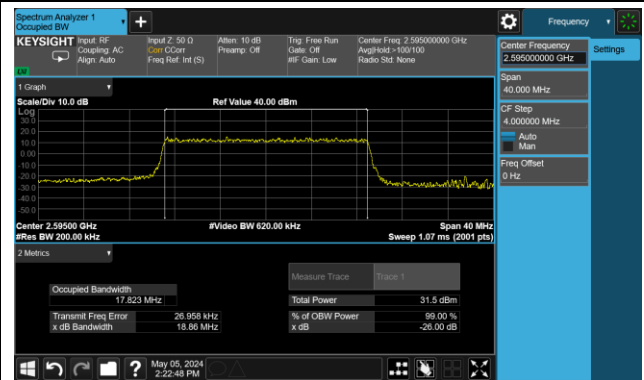


99% Bandwidth – 20MHz Bandwidth QPSK

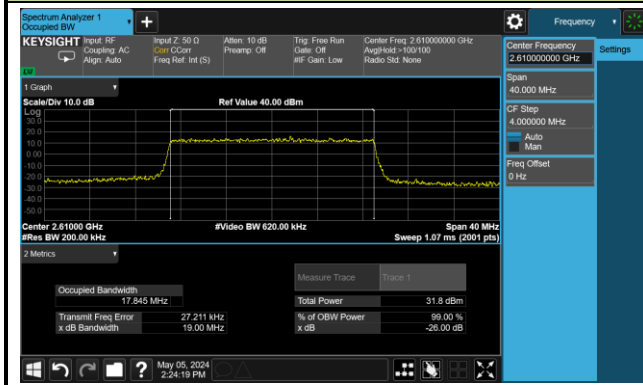
Low Channel Bandwidth



Middle Channel Bandwidth

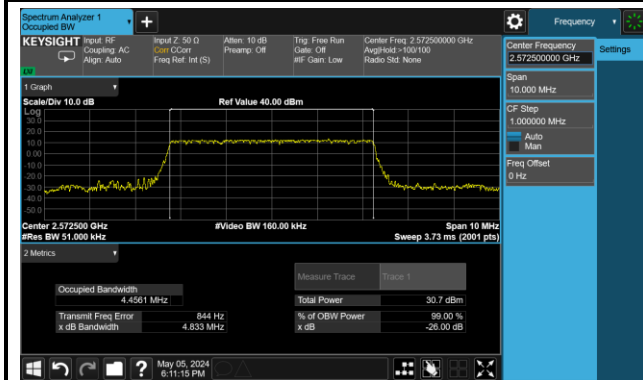


High Channel Bandwidth

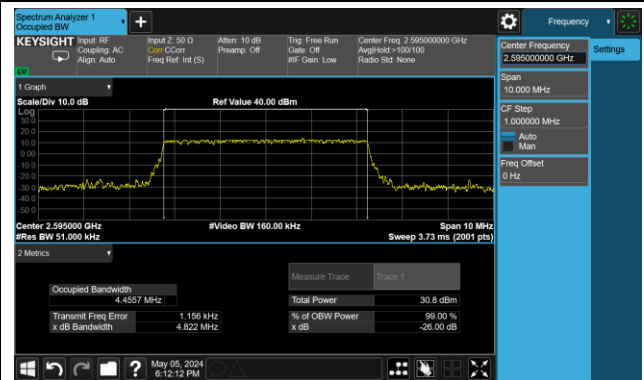


99% Bandwidth – 5MHz Bandwidth 16QAM

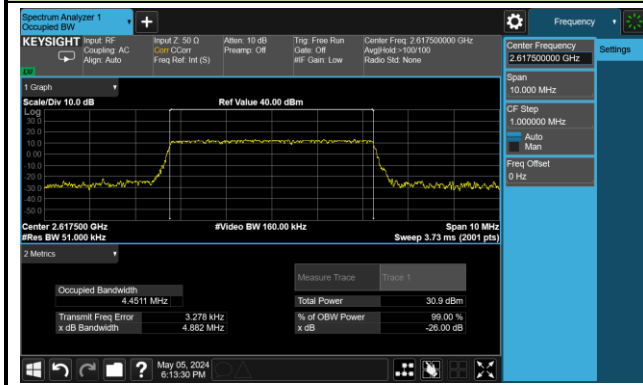
Low Channel Bandwidth



Middle Channel Bandwidth

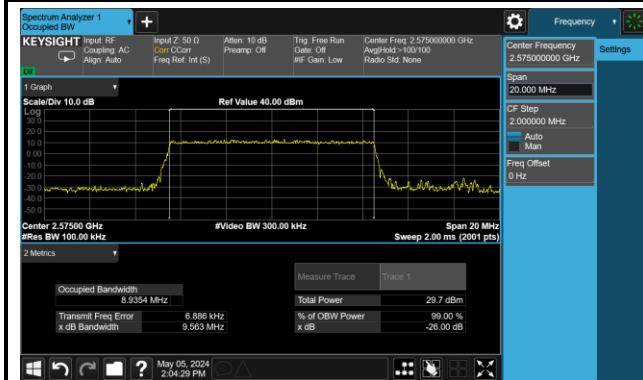


High Channel Bandwidth

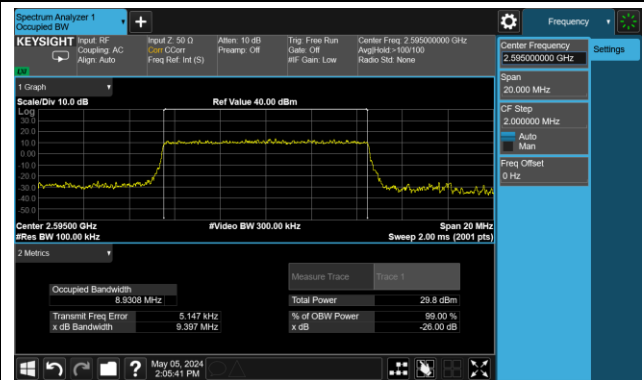


99% Bandwidth – 10MHz Bandwidth 16QAM

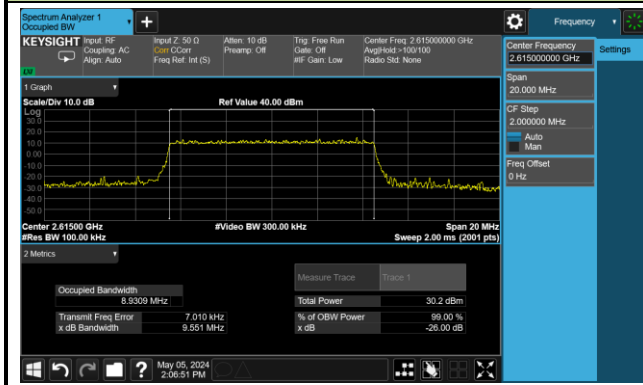
Low Channel Bandwidth



Middle Channel Bandwidth

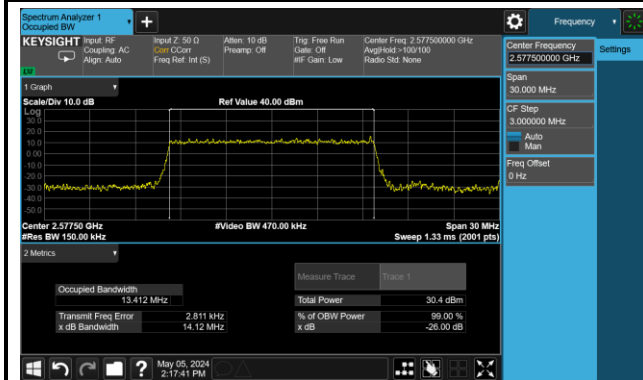


High Channel Bandwidth

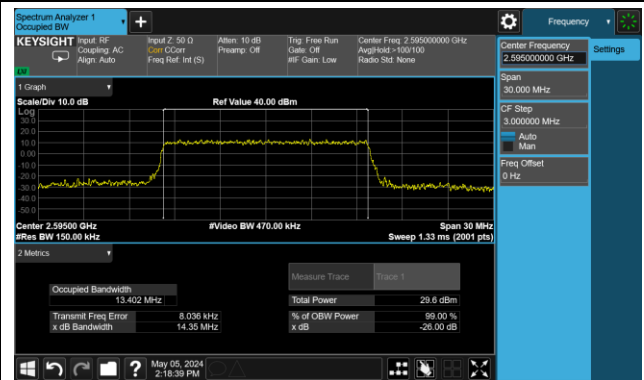


99% Bandwidth – 15MHz Bandwidth 16QAM

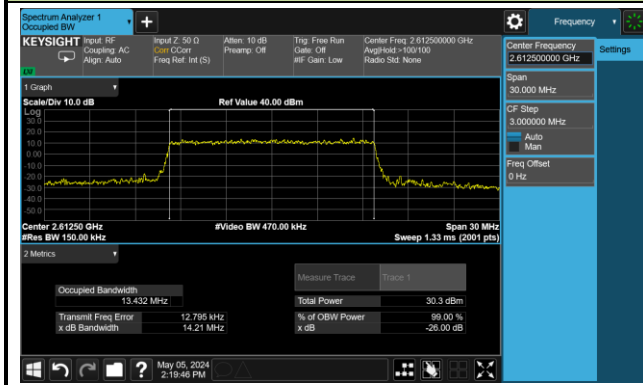
Low Channel Bandwidth



Middle Channel Bandwidth

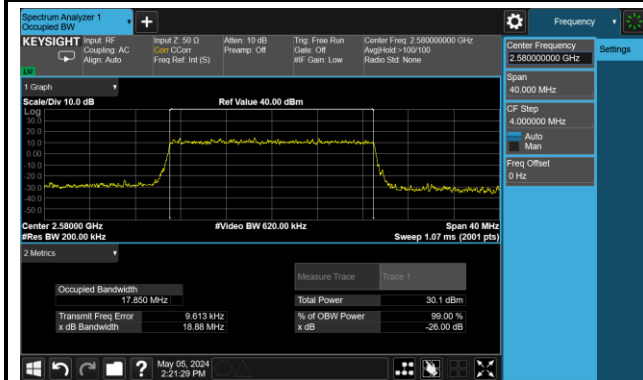


High Channel Bandwidth

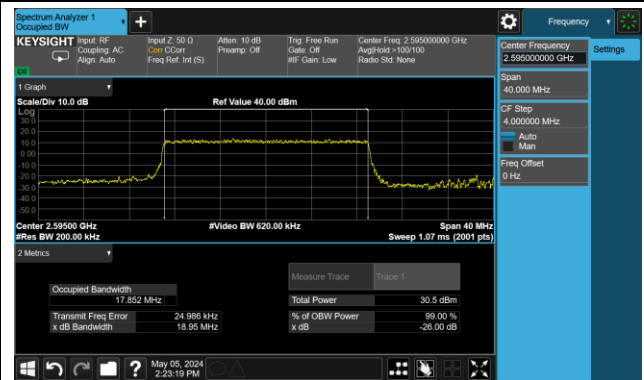


99% Bandwidth – 20MHz Bandwidth 16QAM

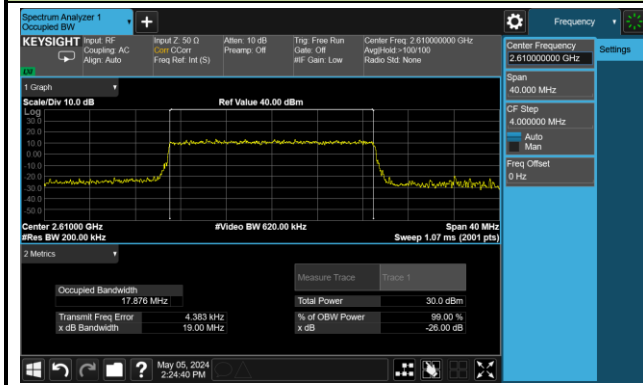
Low Channel Bandwidth



Middle Channel Bandwidth

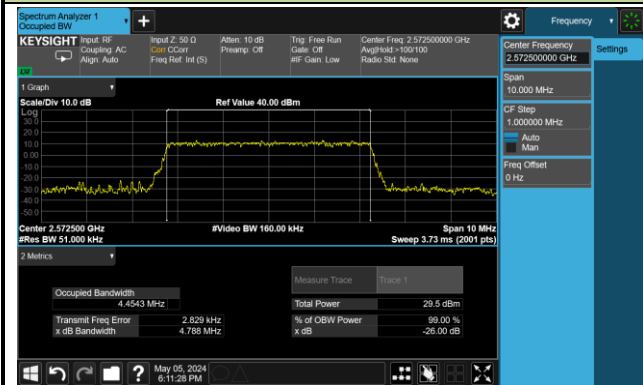


High Channel Bandwidth

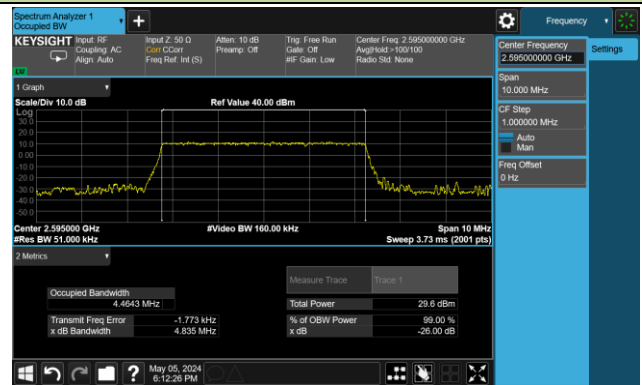


99% Bandwidth – 5MHz Bandwidth 64QAM

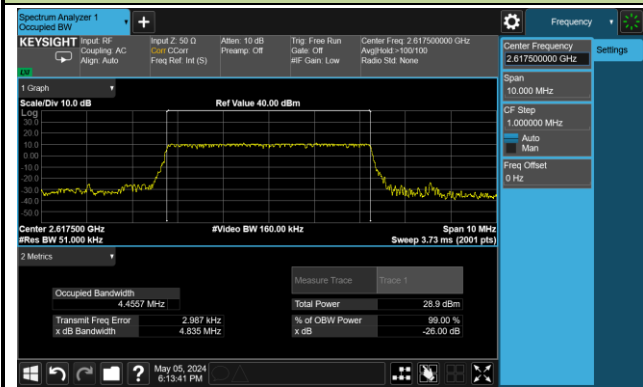
Low Channel Bandwidth



Middle Channel Bandwidth

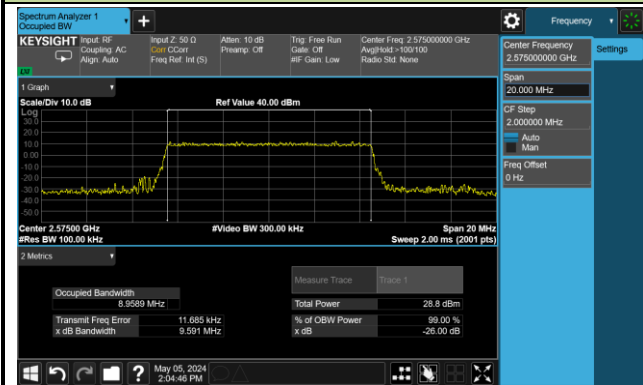


High Channel Bandwidth

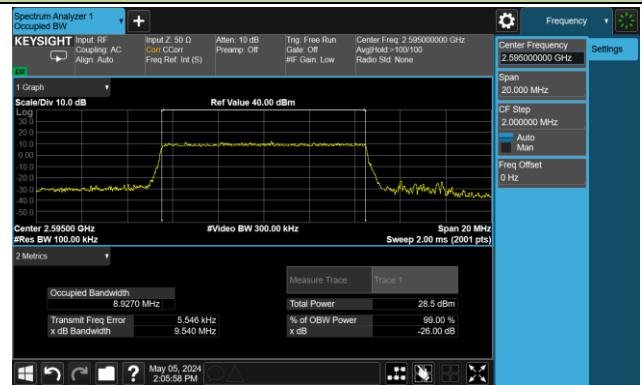


99% Bandwidth – 10MHz Bandwidth 64QAM

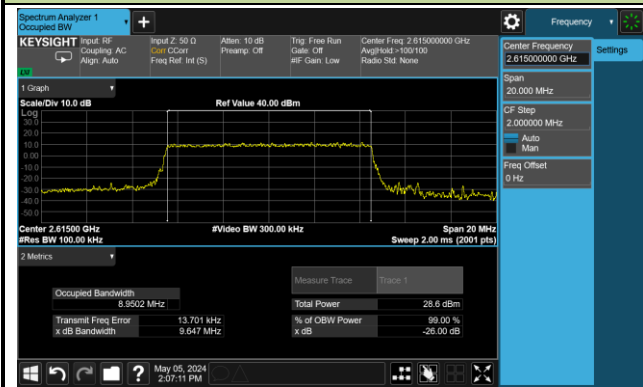
Low Channel Bandwidth



Middle Channel Bandwidth



High Channel Bandwidth

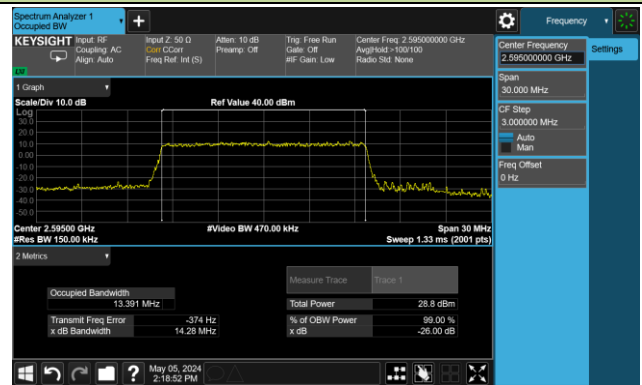


99% Bandwidth – 15MHz Bandwidth 64QAM

Low Channel Bandwidth



Middle Channel Bandwidth

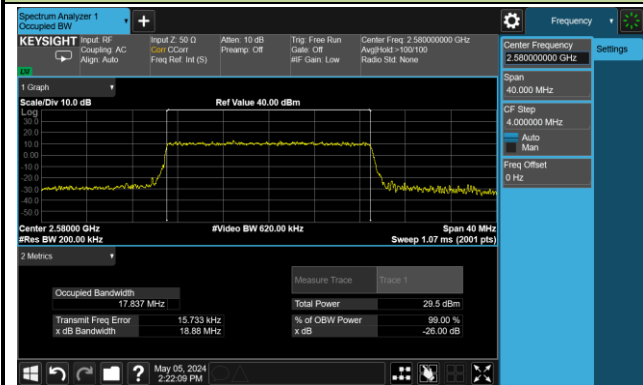


High Channel Bandwidth

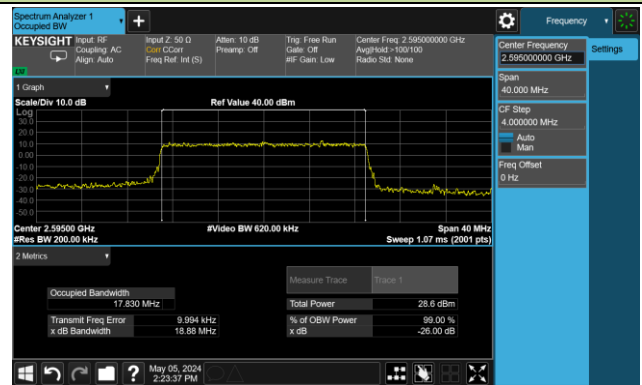


99% Bandwidth – 20MHz Bandwidth 64QAM

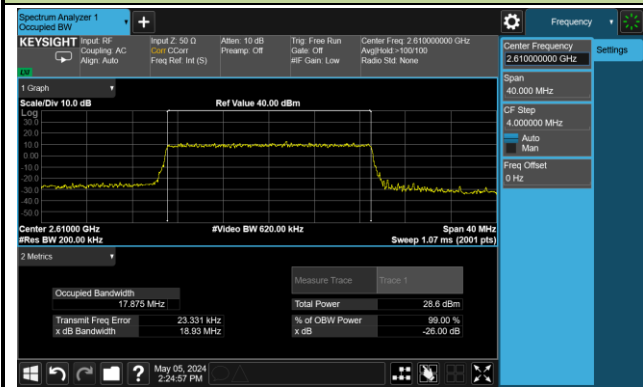
Low Channel Bandwidth



Middle Channel Bandwidth



High Channel Bandwidth



Test Site	SIP-SR1	Test Engineer	Yoniter Yang
Test Date	2024-04-25 ~ 2024-05-06	Test Band	Band 41_HPUE

Bandwidth (MHz)	Frequency (MHz)	99% Bandwidth (MHz)
QPSK		
5	2498.50	4.46
	2593.00	4.48
	2687.50	4.46
10	2501.00	8.94
	2593.00	8.94
	2685.00	8.94
15	2503.50	13.40
	2593.00	13.39
	2682.50	13.40
20	2506.00	17.88
	2593.00	17.85
	2680.00	17.84
16QAM		
5	2498.50	4.47
	2593.00	4.46
	2687.50	4.46
10	2501.00	8.94
	2593.00	8.91
	2685.00	8.94
15	2503.50	13.39
	2593.00	13.40
	2682.50	13.38
20	2506.00	17.87
	2593.00	17.84
	2680.00	17.86

Bandwidth (MHz)	Frequency (MHz)	99% Bandwidth (MHz)
64QAM		
5	2498.5	4.44
	2593.0	4.46
	2687.5	4.46
10	2501.0	8.93
	2593.0	8.95
	2685.0	8.94
15	2503.5	13.37
	2593.0	13.41
	2682.5	13.38
20	2506.0	17.85
	2593.0	17.86
	2680.0	17.88