

256QAM

Ch 400500 (2002.5MHz)



Ch 401500 (2007.5MHz)



Ch 402500 (2012.5MHz)

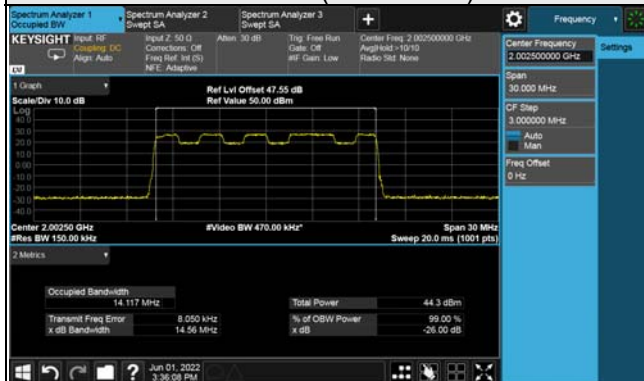


Ant. TX 3

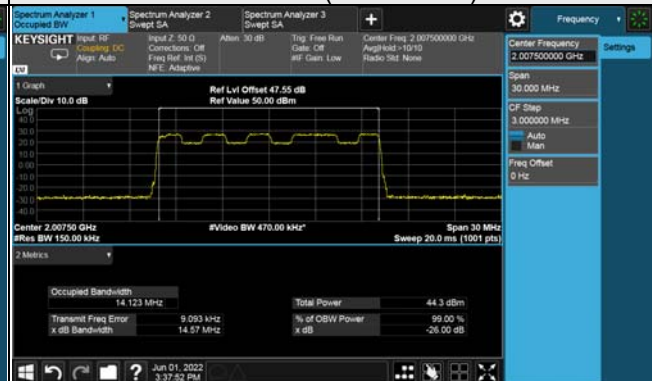
-26dBc Bandwidth

QPSK

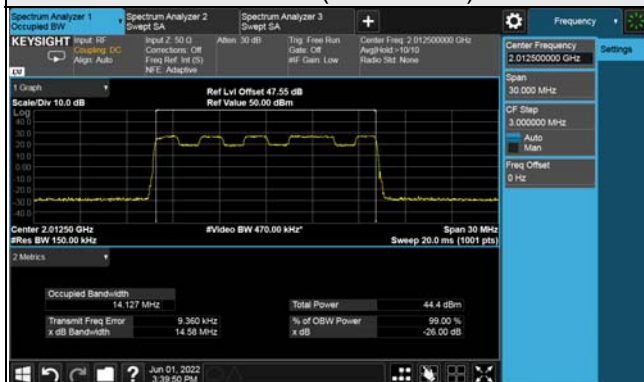
Ch 400500 (2002.5MHz)



Ch 401500 (2007.5MHz)



Ch 402500 (2012.5MHz)

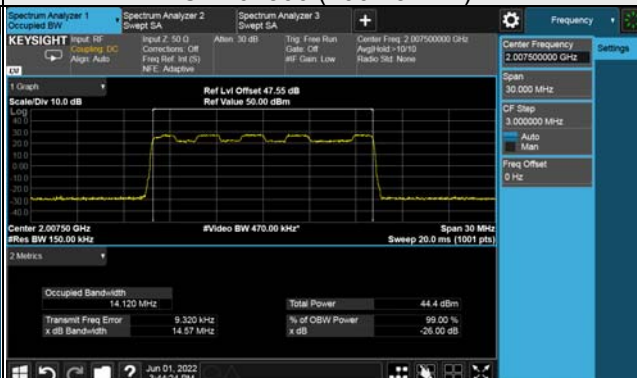


16QAM

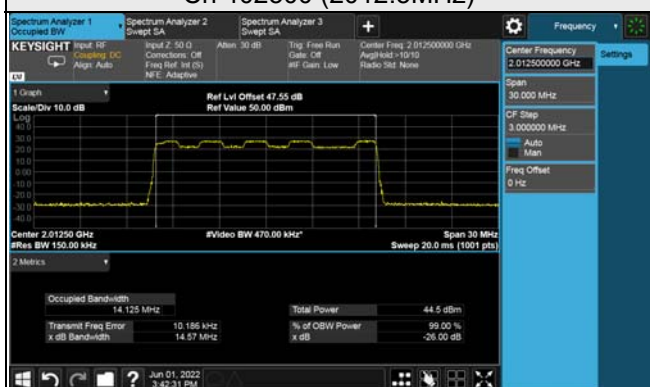
Ch 400500 (2002.5MHz)



Ch 401500 (2007.5MHz)



Ch 402500 (2012.5MHz)

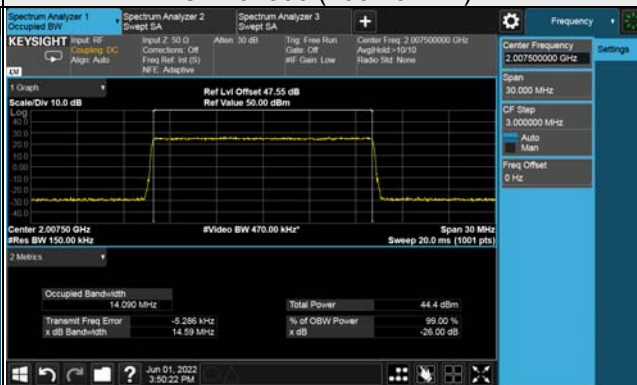


64QAM

Ch 400500 (2002.5MHz)



Ch 401500 (2007.5MHz)



Ch 402500 (2012.5MHz)



256QAM



20MHz

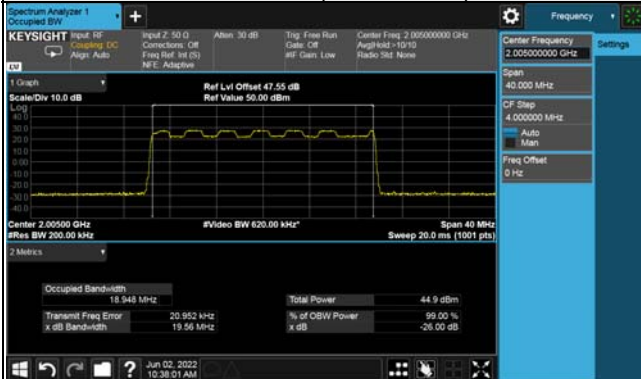
Channel Number	Freq. (MHz)	-26dB Bandwidth (MHz)															
		Ant. TX0				Ant. TX1				Ant. TX2				Ant. TX3			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
401000	2005	19.54	19.56	19.57	19.56	19.52	19.53	19.56	19.55	19.54	19.54	19.56	19.55	19.54	19.55	19.56	19.57
401500	2007.5	19.54	19.54	19.55	19.55	19.54	19.55	19.58	19.55	19.54	19.55	19.57	19.55	19.53	19.54	19.57	19.55
402000	2010	19.52	19.54	19.56	19.54	19.53	19.53	19.56	19.56	19.52	19.55	19.55	19.54	19.53	19.56	19.58	19.55

Ant. TX 0

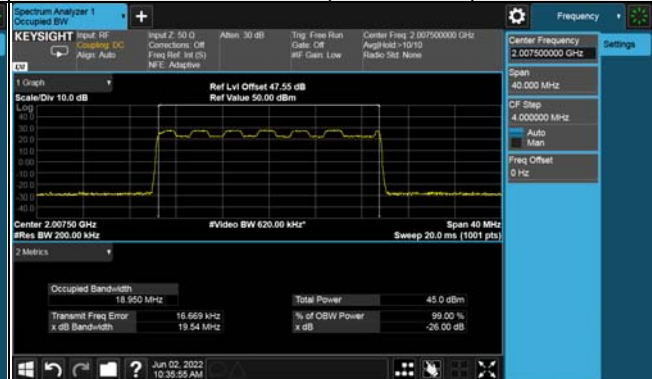


16QAM

Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)

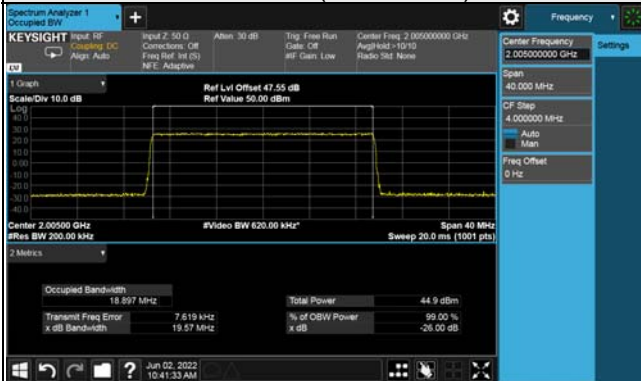


Ch 402000 (2010.0MHz)

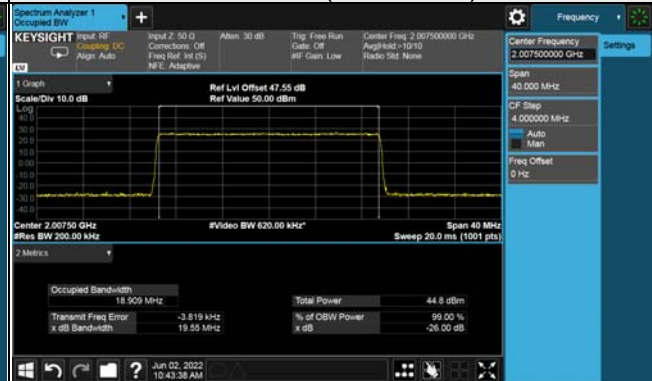


64QAM

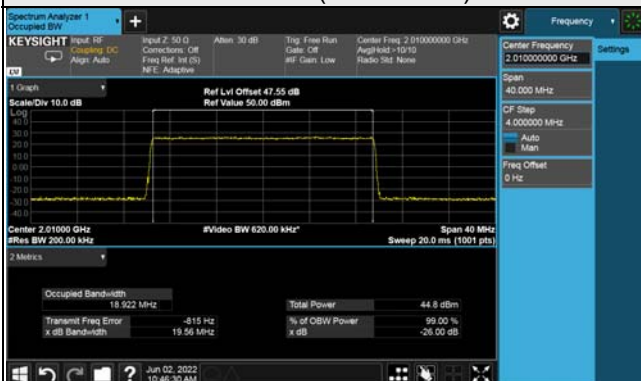
Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)

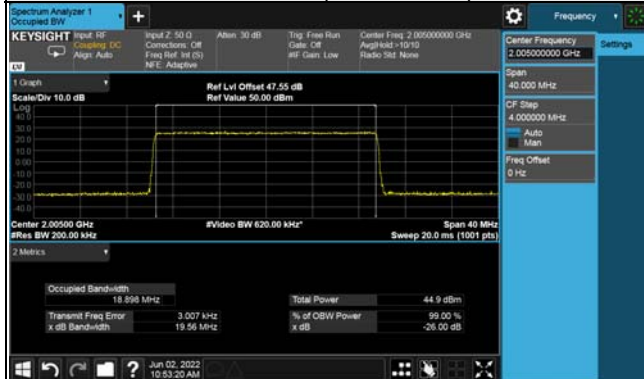


Ch 402000 (2010.0MHz)



256QAM

Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)



Ch 402000 (2010.0MHz)

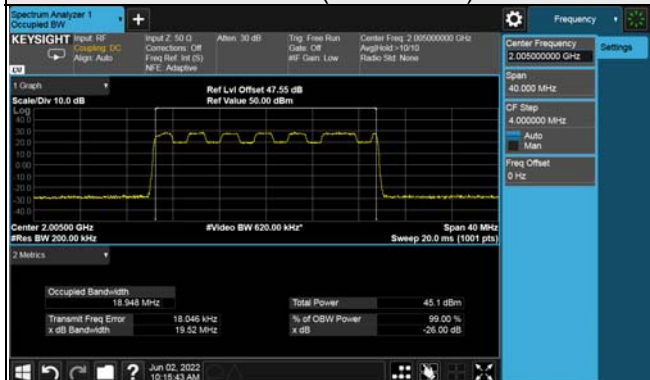


Ant. TX 1

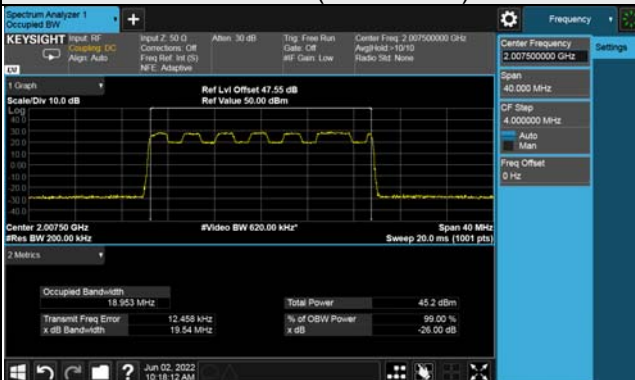
-26dBc Bandwidth

QPSK

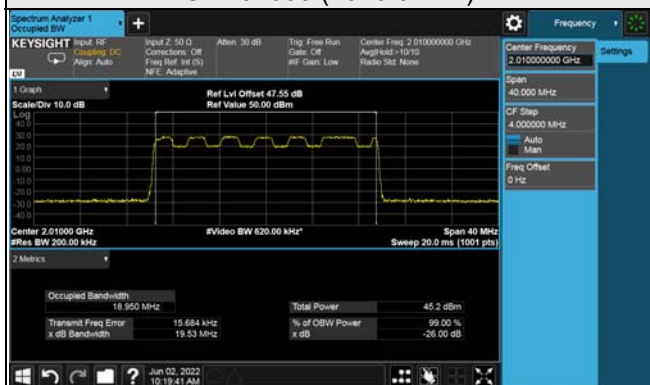
Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)

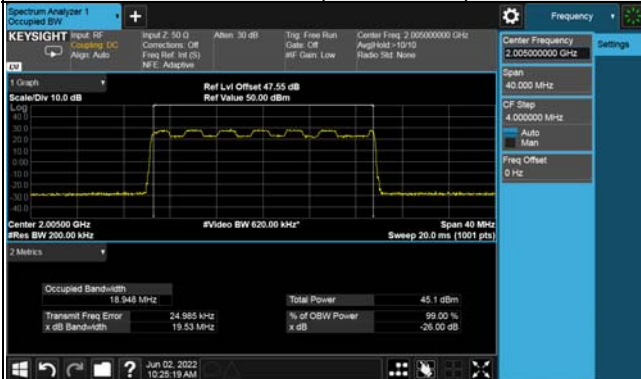


Ch 402000 (2010.0MHz)

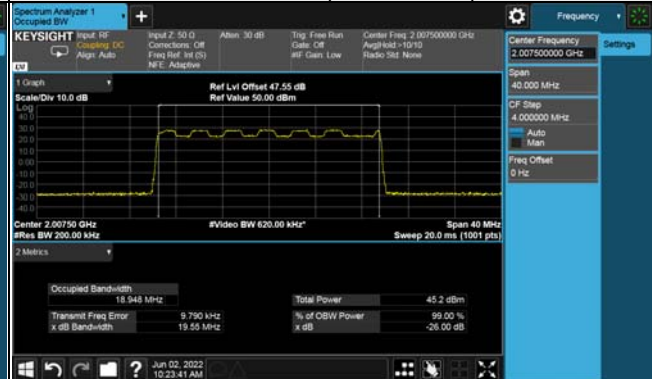


16QAM

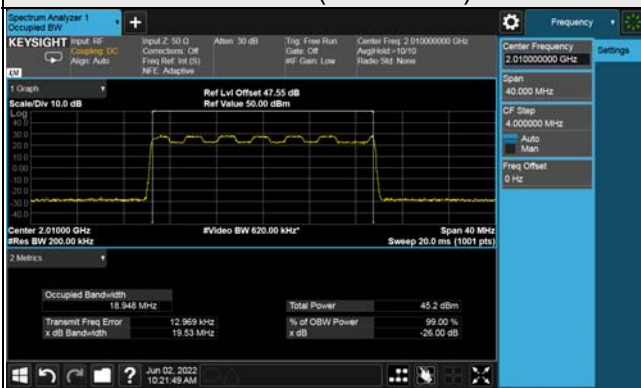
Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)

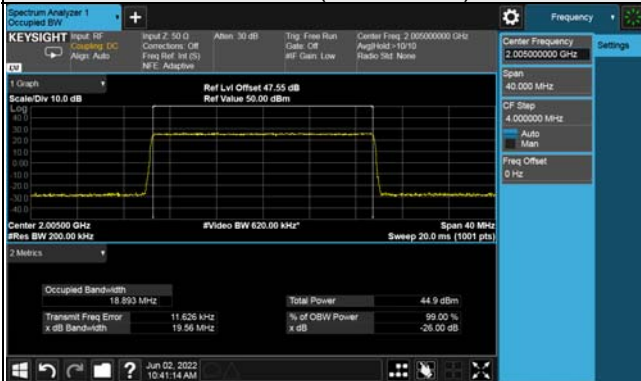


Ch 402000 (2010.0MHz)

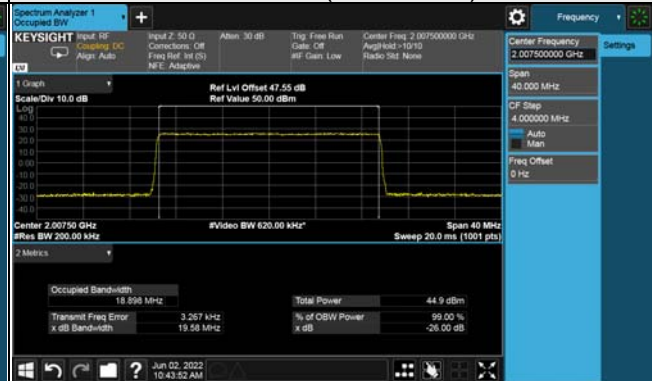


64QAM

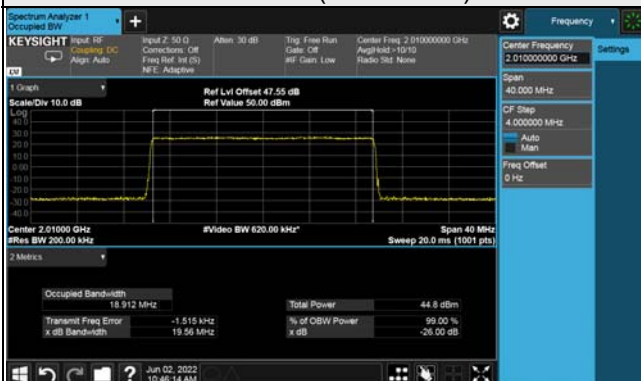
Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)



Ch 402000 (2010.0MHz)



256QAM

Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)



Ch 402000 (2010.0MHz)

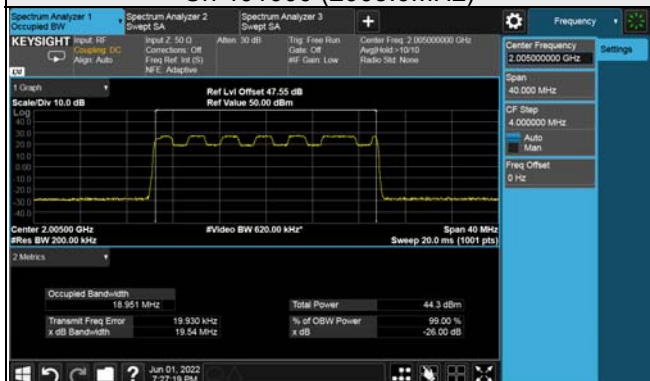


Ant. TX 2

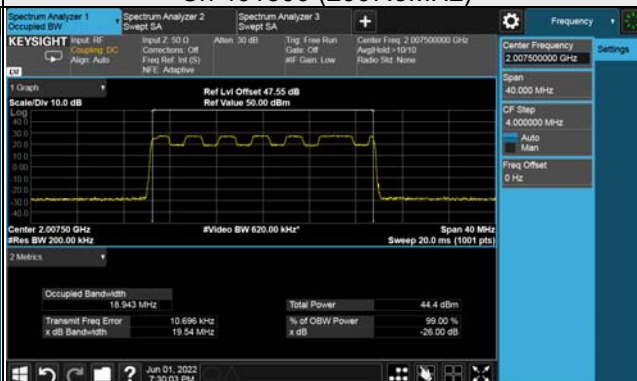
-26dBc Bandwidth

QPSK

Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)

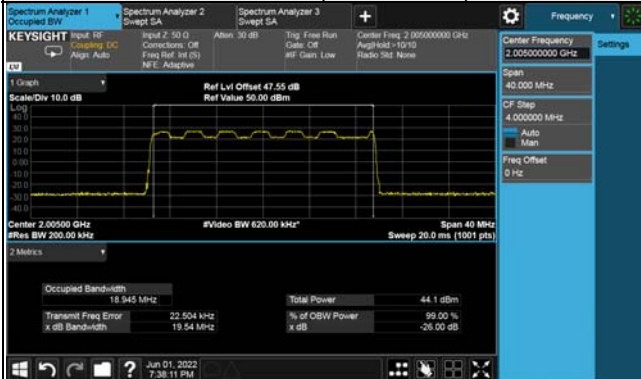


Ch 402000 (2010.0MHz)

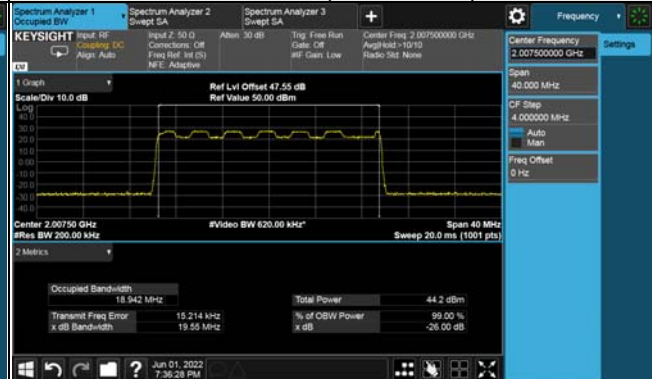


16QAM

Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)



Ch 402000 (2010.0MHz)



64QAM

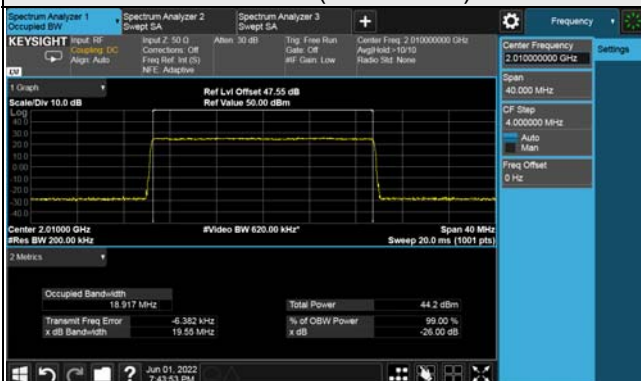
Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)



Ch 402000 (2010.0MHz)



256QAM

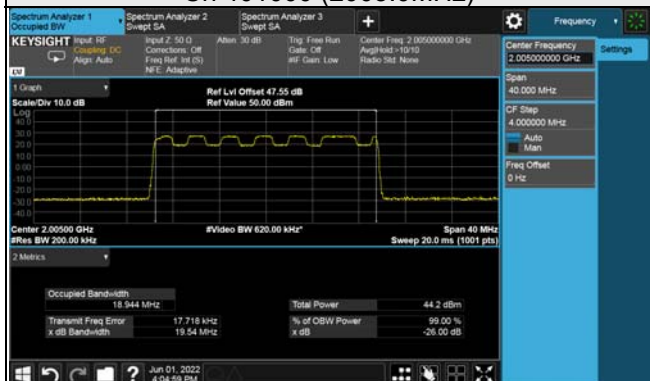


Ant. TX 3

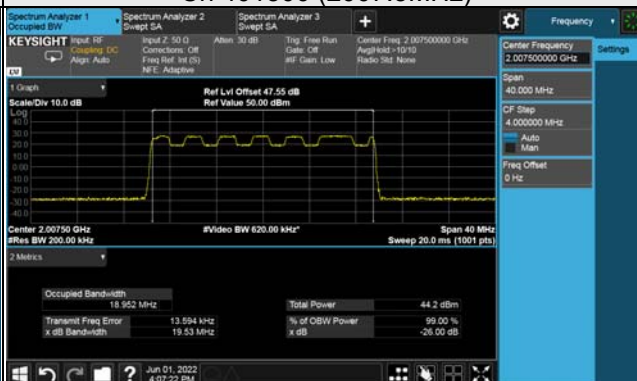
-26dBc Bandwidth

QPSK

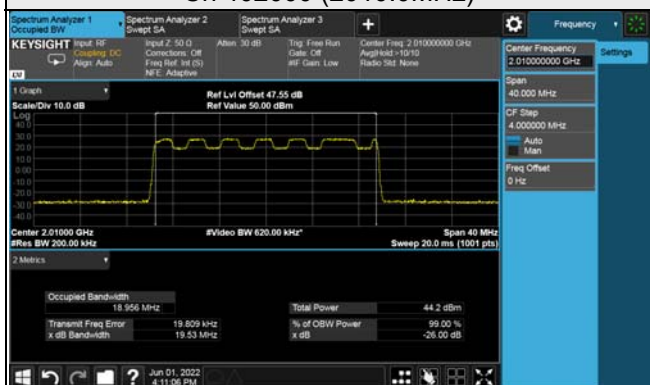
Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)



Ch 402000 (2010.0MHz)

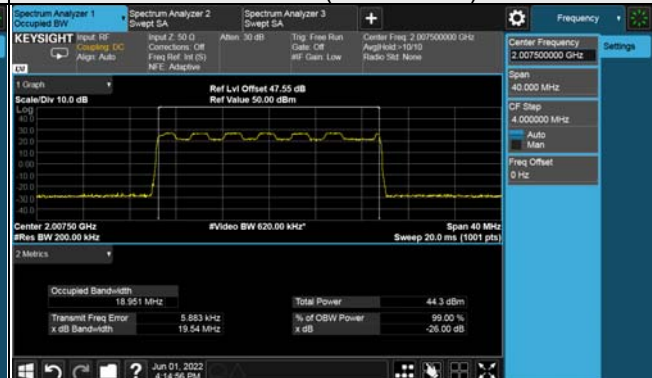


16QAM

Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)



Ch 402000 (2010.0MHz)



64QAM

Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)

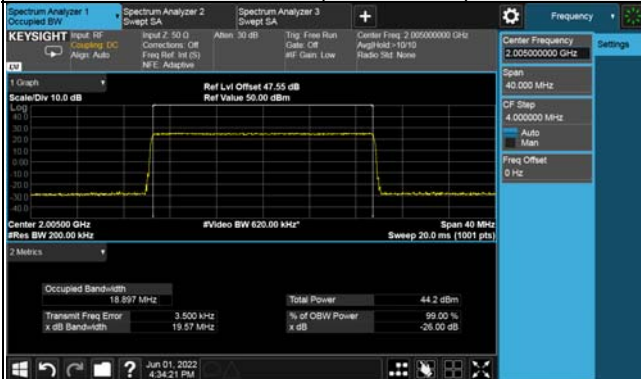


Ch 402000 (2010.0MHz)



256QAM

Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)



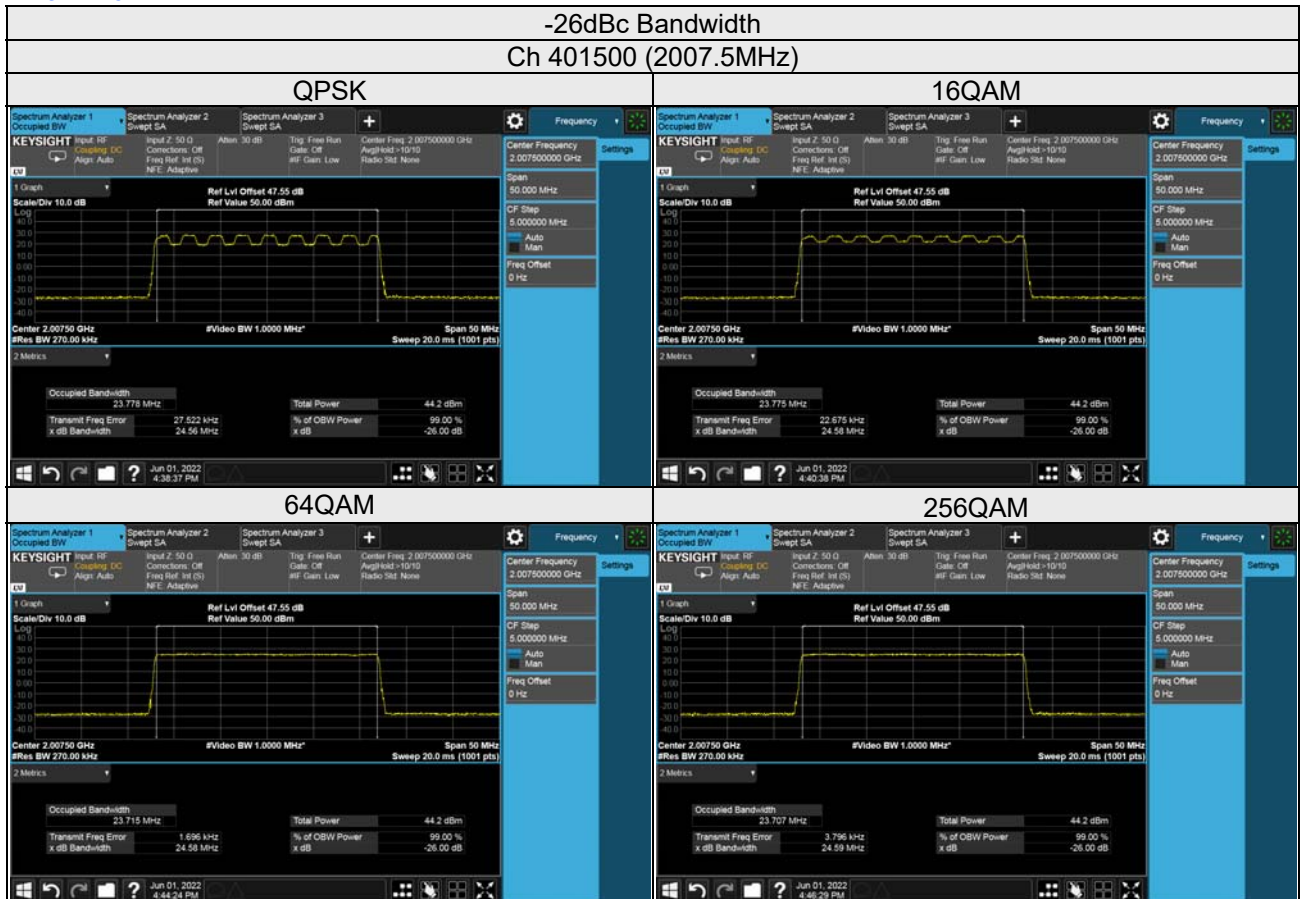
Ch 402000 (2010.0MHz)



25MHz

Channel Number	Freq. (MHz)	-26dB Bandwidth (MHz)															
		Ant. TX0				Ant. TX1				Ant. TX2				Ant. TX3			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
401500	2007.5	24.56	24.58	24.58	24.59	24.55	24.57	24.59	24.59	24.56	24.58	24.59	24.58	24.57	24.59	24.58	24.58

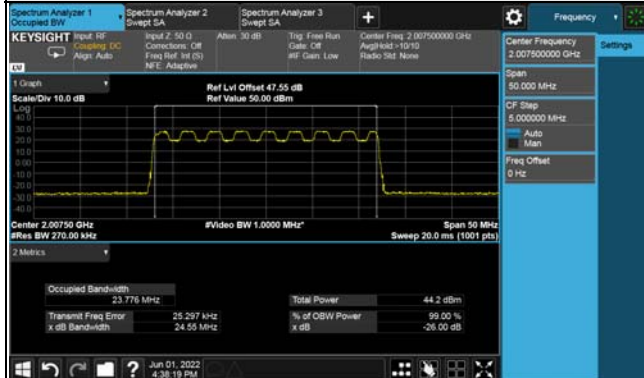
Ant. TX0



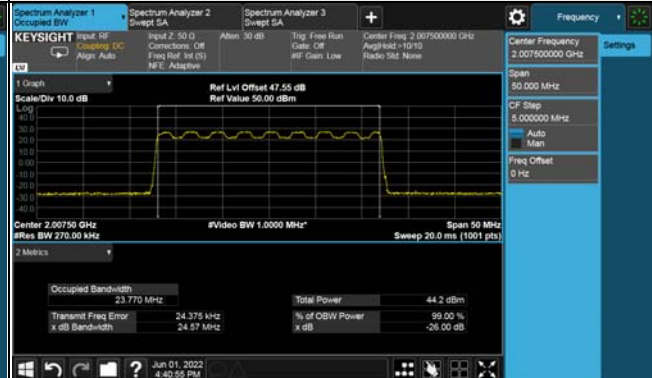
Ant. TX 1

-26dBc Bandwidth
Ch 401500 (2007.5MHz)

QPSK



16QAM



64QAM



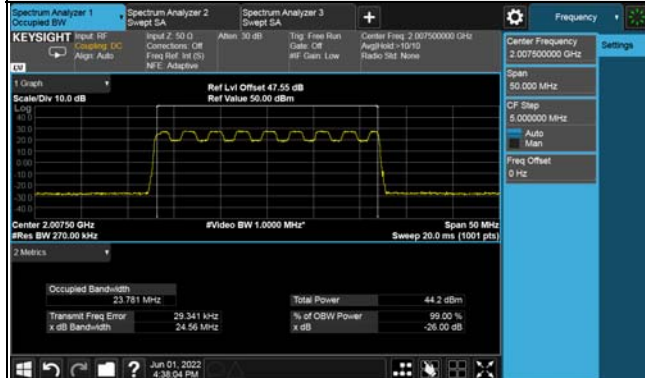
256QAM



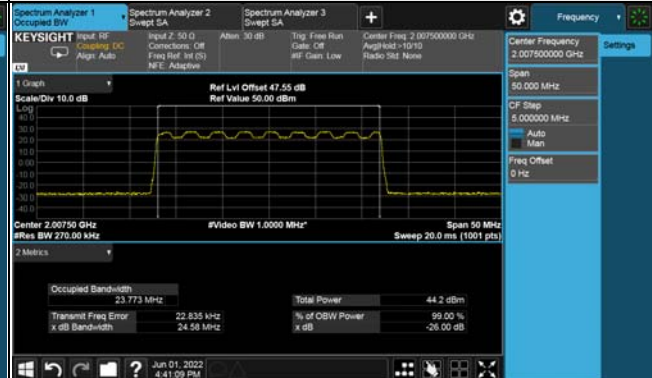
Ant. TX 2

-26dBc Bandwidth
Ch 401500 (2007.5MHz)

QPSK



16QAM



64QAM



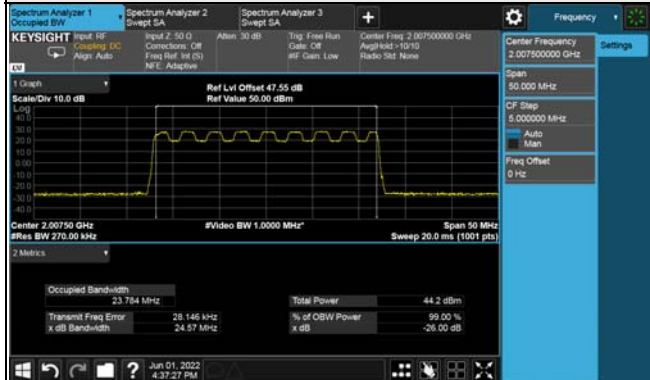
256QAM



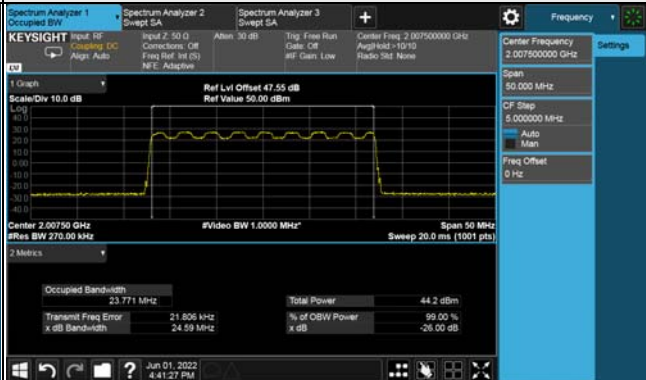
Ant. TX 3

-26dBc Bandwidth
Ch 401500 (2007.5MHz)

QPSK



16QAM



64QAM



256QAM

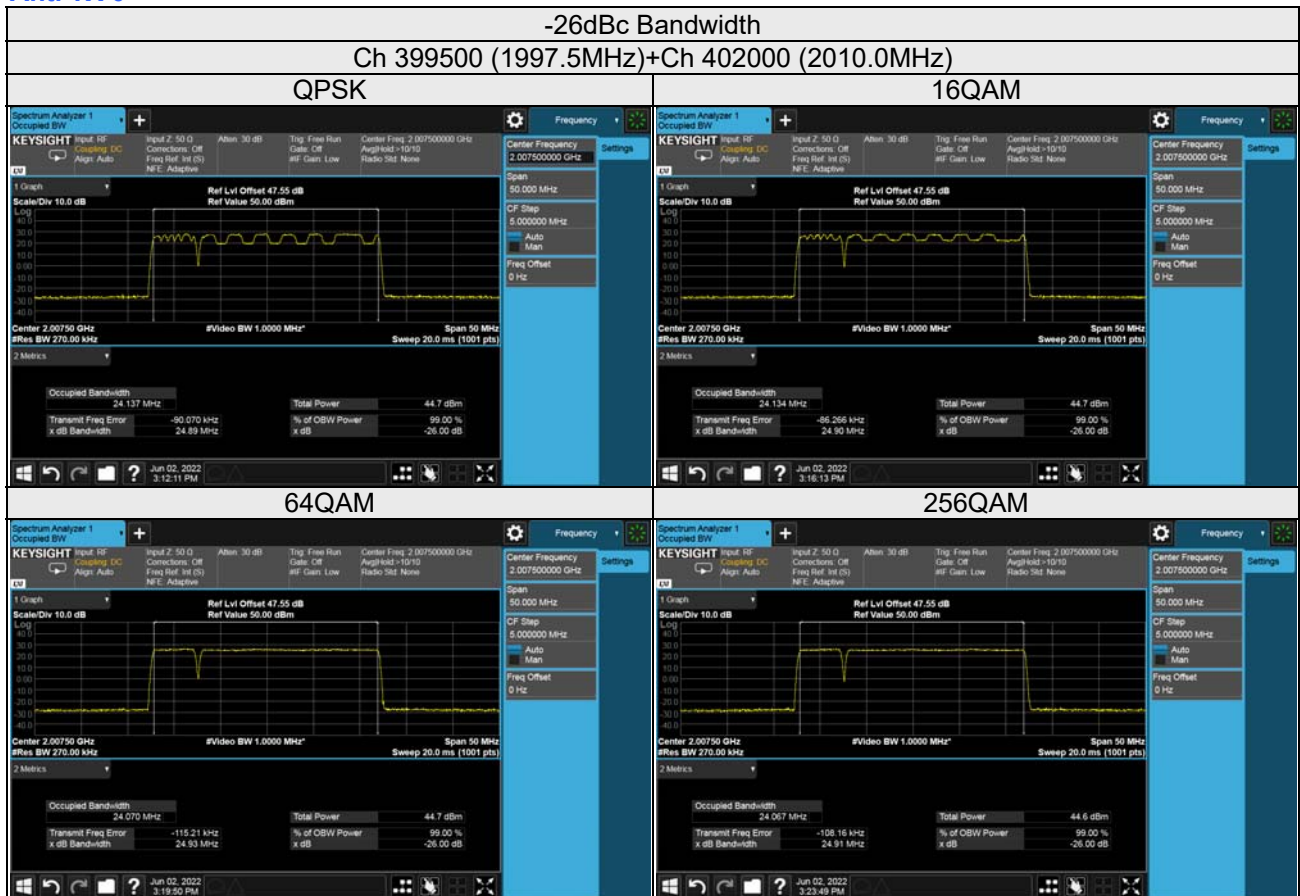


CA-Contiguous

5MHz+20MHz

Channel Number	Freq. (MHz)	-26dB Bandwidth (MHz)															
		Ant. TX0				Ant. TX1				Ant. TX2				Ant. TX3			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
399500+402000	1997.5+2010.0	24.89	24.90	24.93	24.91	24.90	24.89	24.92	24.91	24.89	24.90	24.92	24.90	24.89	24.90	24.91	24.92

Ant. TX 0

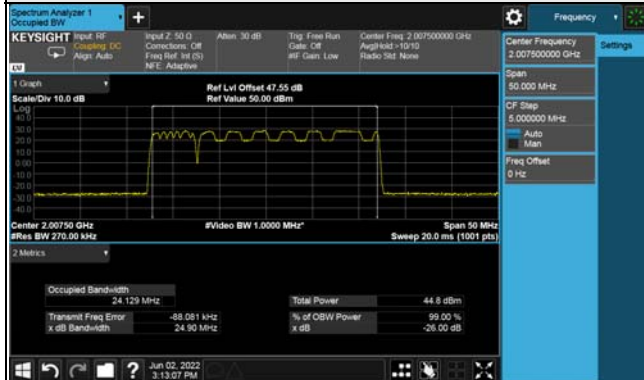


Ant. TX 1

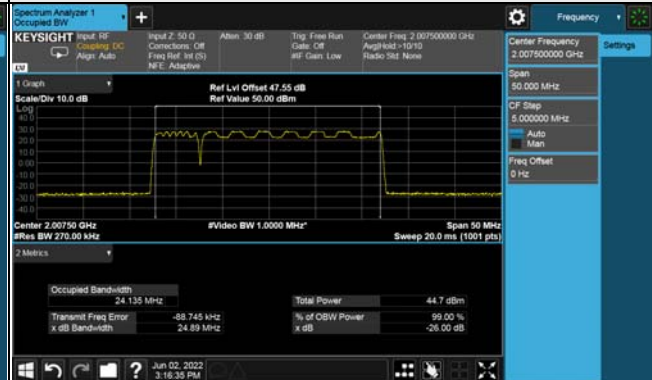
-26dBc Bandwidth

Ch 399500 (1997.5MHz)+Ch 402000 (2010.0MHz)

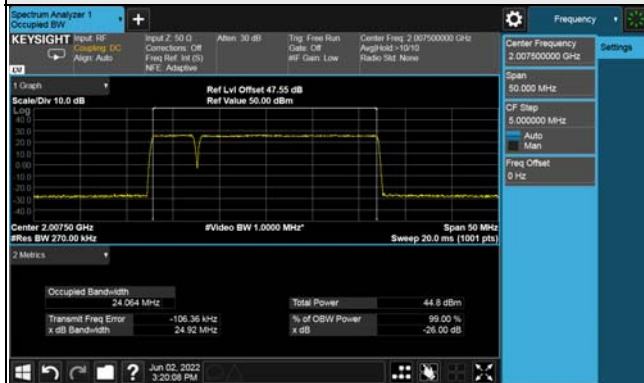
QPSK



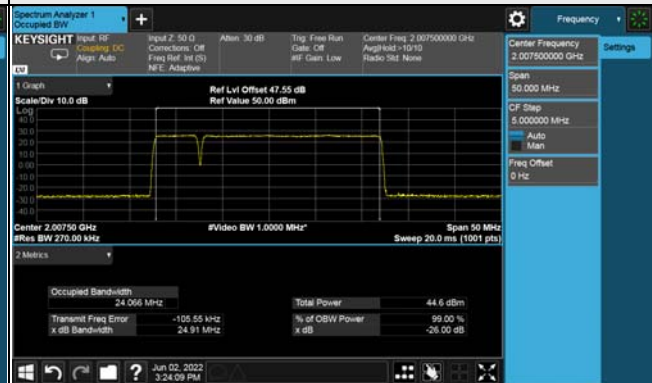
16QAM



64QAM



256QAM

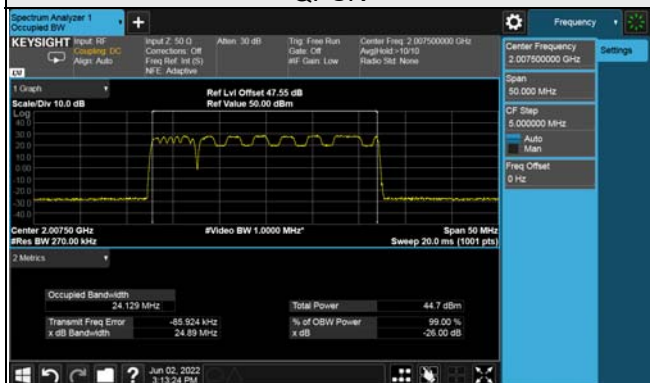


Ant. TX 2

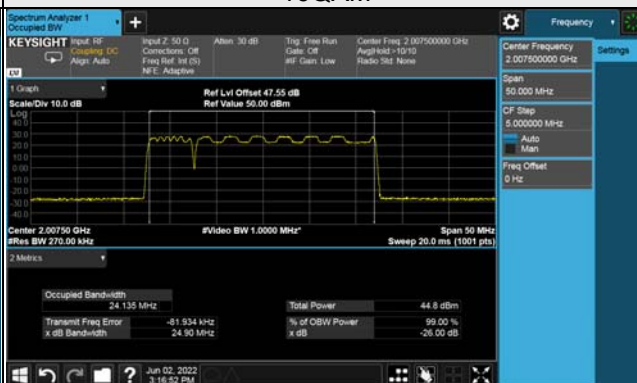
-26dBc Bandwidth

Ch 399500 (1997.5MHz)+Ch 402000 (2010.0MHz)

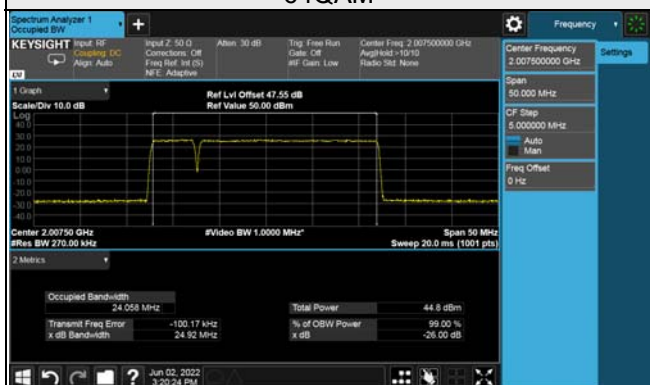
QPSK



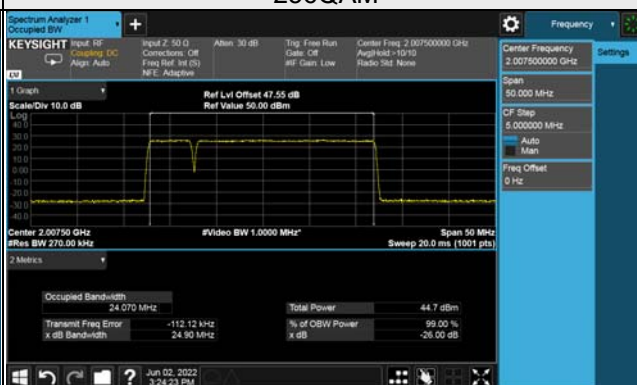
16QAM



64QAM



256QAM



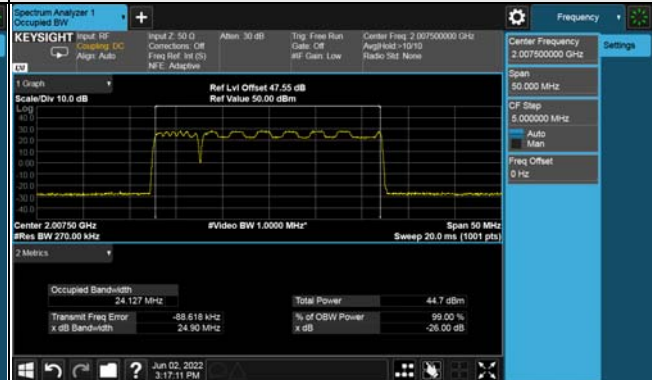
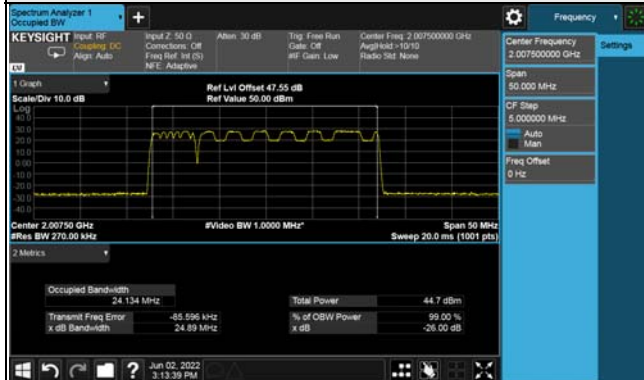
Ant. TX 3

-26dBc Bandwidth

Ch 399500 (1997.5MHz)+Ch 402000 (2010.0MHz)

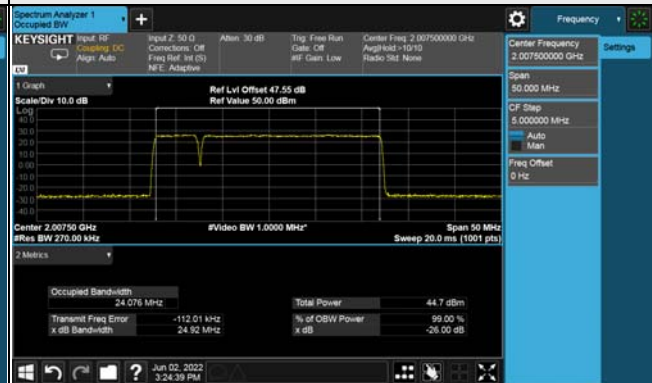
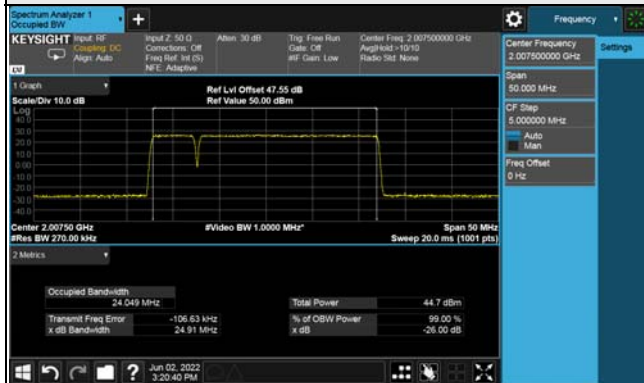
QPSK

16QAM



64QAM

256QAM



20MHz+5MHz

Channel Number	Freq. (MHz)	-26dB Bandwidth (MHz)															
		Ant. TX0				Ant. TX1				Ant. TX2				Ant. TX3			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
401000+403500	2005.0+2017.5	24.90	24.91	24.91	24.93	24.89	24.90	24.91	24.89	24.90	24.91	24.91	24.90	24.91	24.92	24.92	24.90

Ant. TX 0



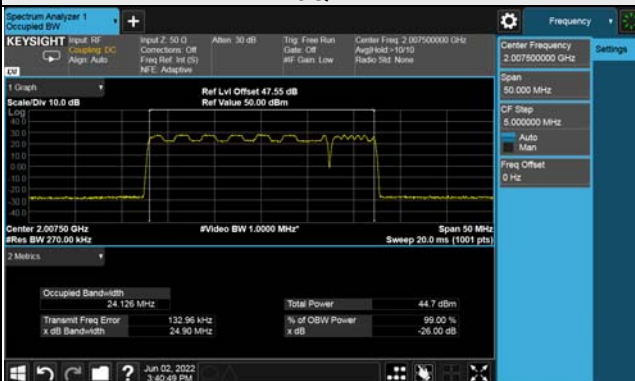
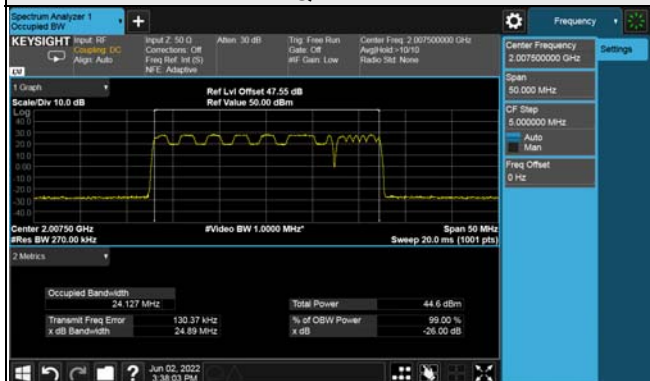
Ant. TX 1

-26dBc Bandwidth

Ch 401000 (2005.0MHz)+Ch 403500 (2017.5MHz)

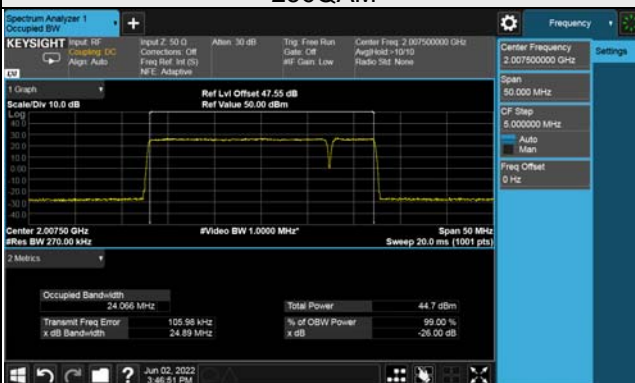
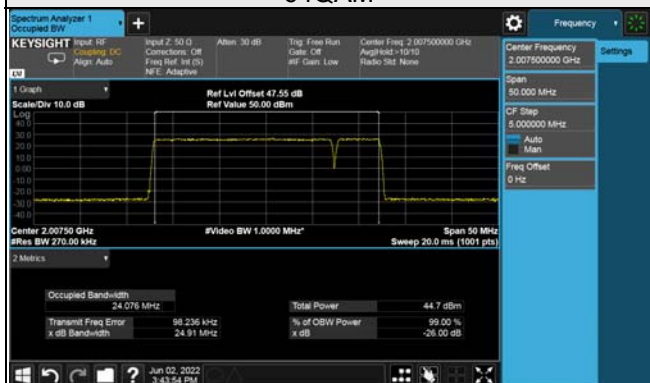
QPSK

16QAM



64QAM

256QAM

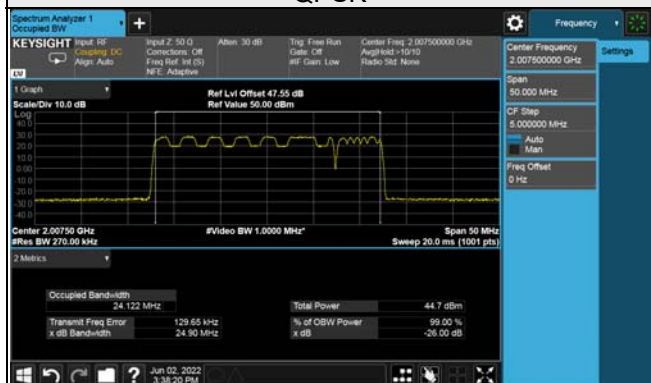


Ant. TX 2

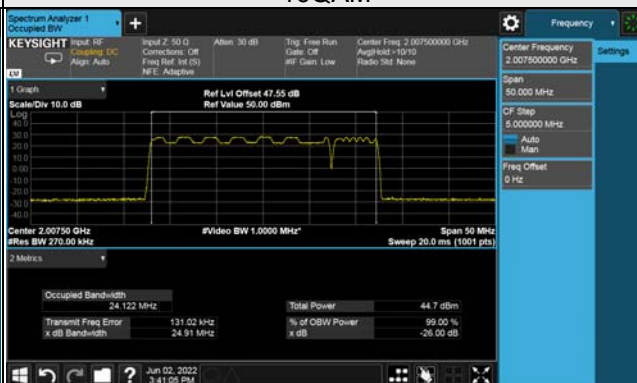
-26dBc Bandwidth

Ch 401000 (2005.0MHz)+Ch 403500 (2017.5MHz)

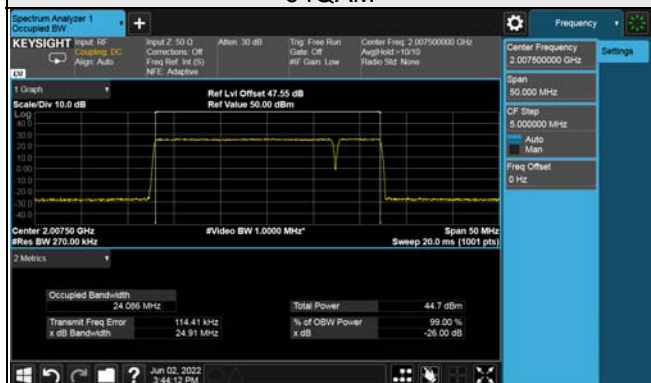
QPSK



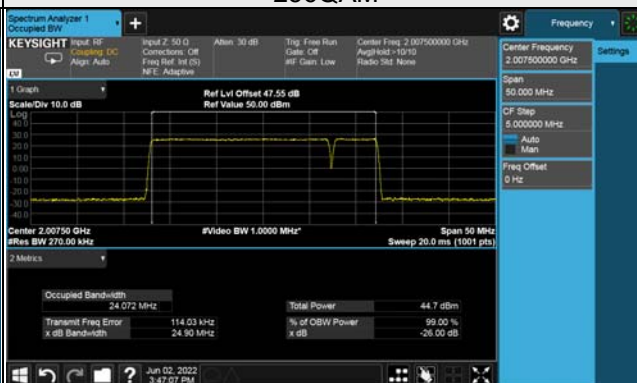
16QAM



64QAM



256QAM



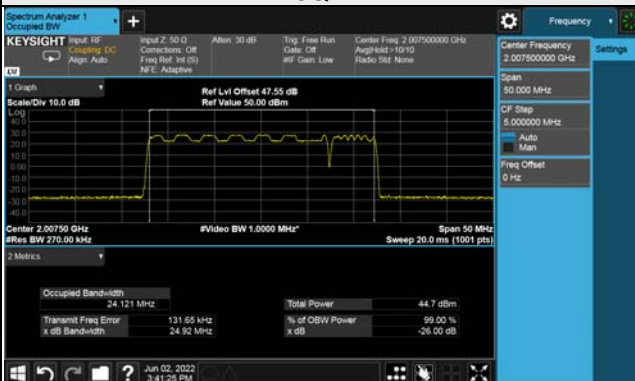
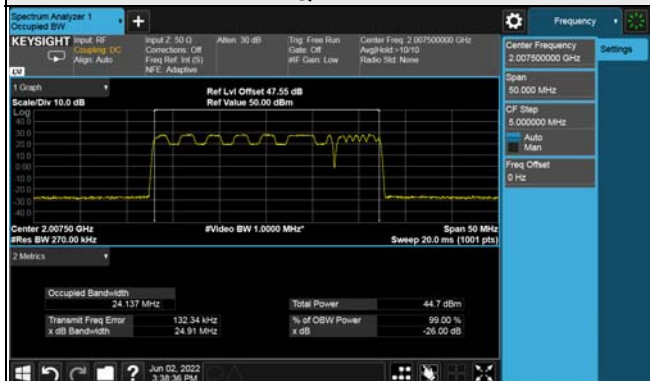
Ant. TX 3

-26dBc Bandwidth

Ch 401000 (2005.0MHz)+Ch 403500 (2017.5MHz)

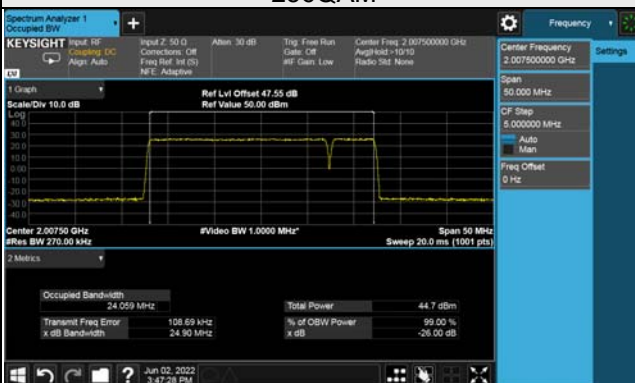
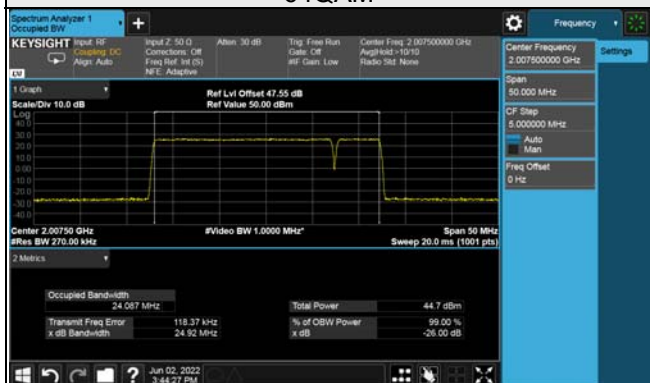
QPSK

16QAM



64QAM

256QAM



CA-Non-Contiguous

5MHz+5MHz

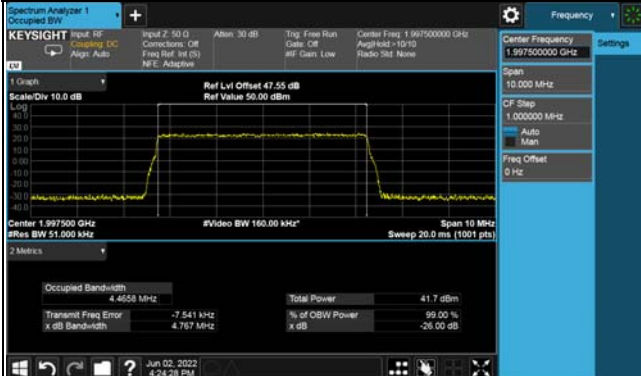
Channel Number	Freq. (MHz)	-26dB Bandwidth (MHz)															
		Ant. TX0				Ant. TX1				Ant. TX2				Ant. TX3			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
399500+403500	1997.5	4.74	4.70	4.77	4.75	4.71	4.76	4.77	4.71	4.74	4.70	4.76	4.73	4.73	4.72	4.76	4.72
	2017.5	4.74	4.74	4.79	4.70	4.77	4.72	4.74	4.76	4.72	4.73	4.75	4.77	4.74	4.72	4.76	4.77

Ant. TX 0

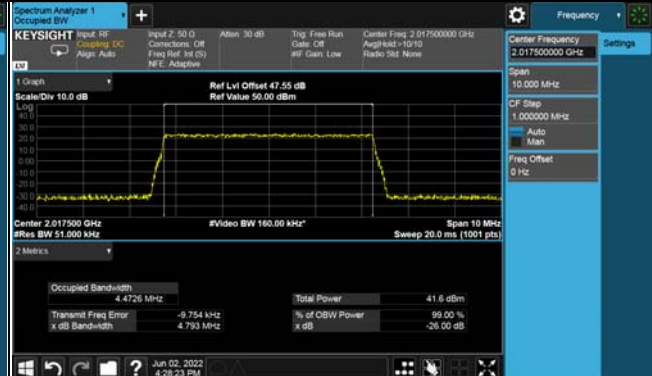


64QAM

Ch 399500 (1997.5MHz)

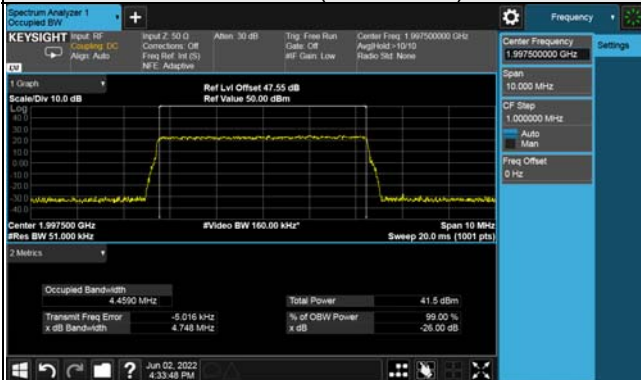


Ch 403500 (2017.5MHz)

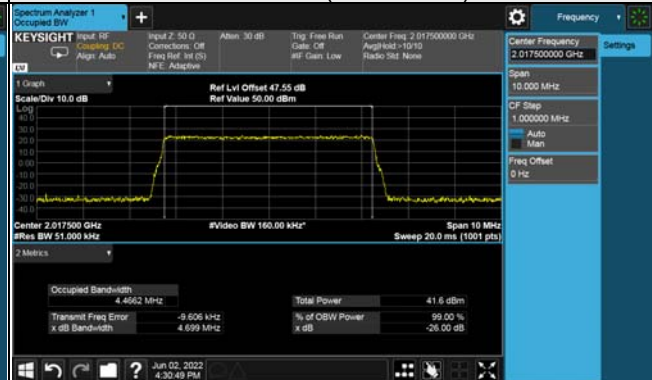


256QAM

Ch 399500 (1997.5MHz)



Ch 403500 (2017.5MHz)

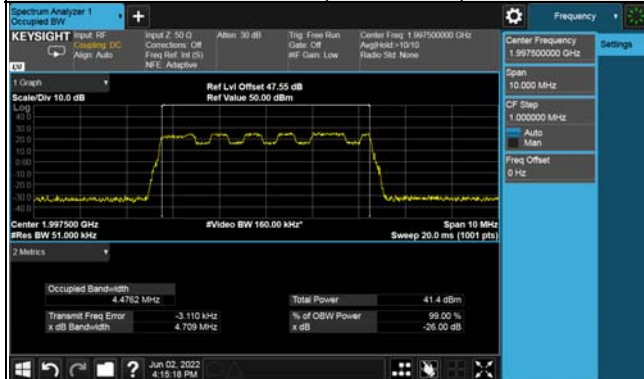


Ant. TX 1

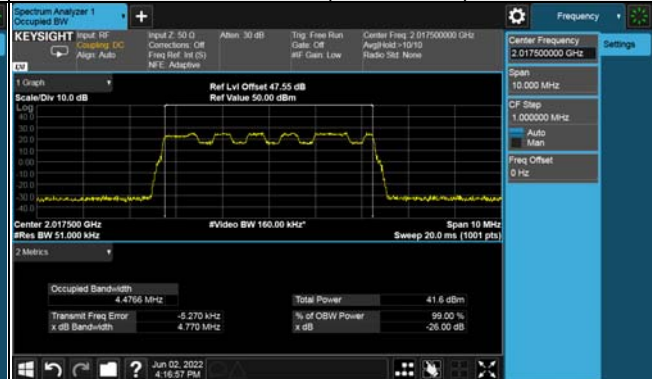
-26dBc Bandwidth

QPSK

Ch 399500 (1997.5MHz)



Ch 403500 (2017.5MHz)

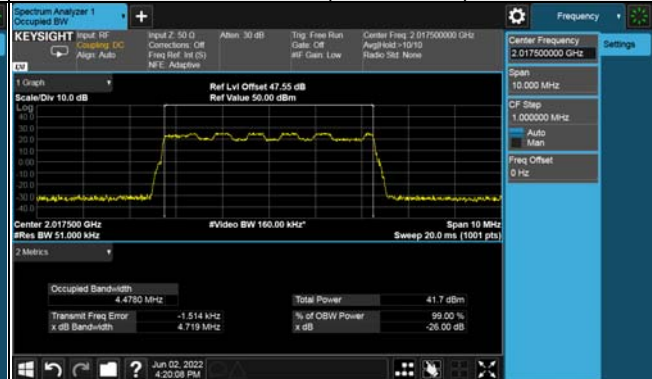


16QAM

Ch 399500 (1997.5MHz)

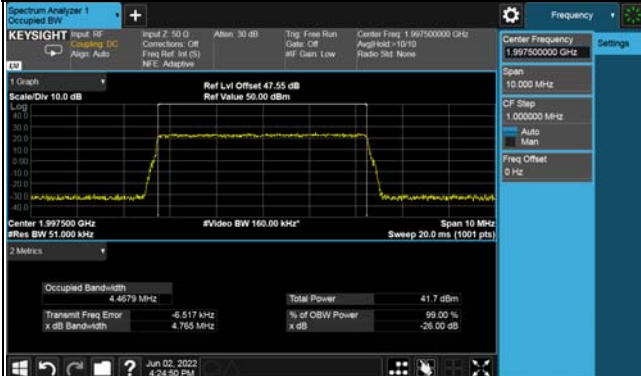


Ch 403500 (2017.5MHz)

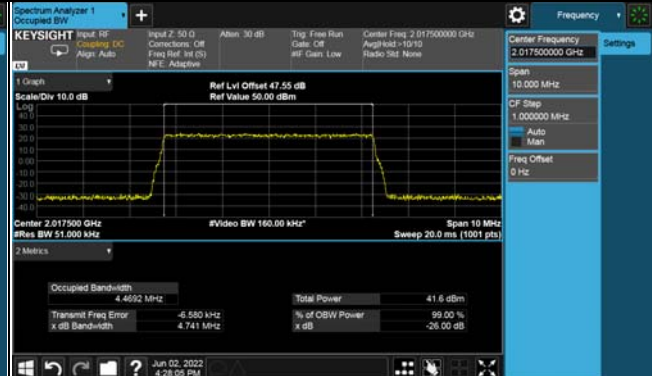


64QAM

Ch 399500 (1997.5MHz)

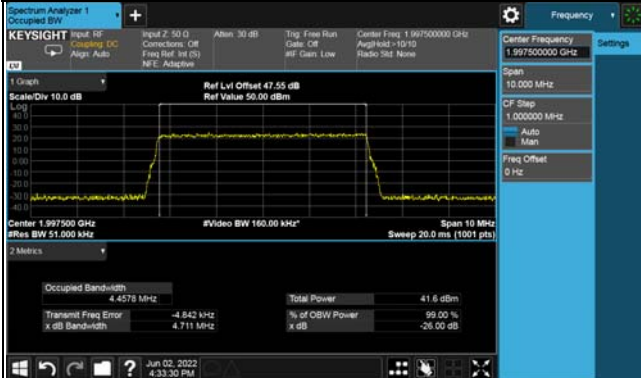


Ch 403500 (2017.5MHz)

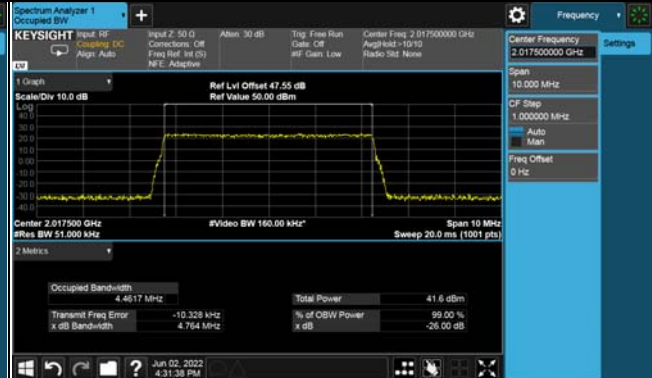


256QAM

Ch 399500 (1997.5MHz)



Ch 403500 (2017.5MHz)

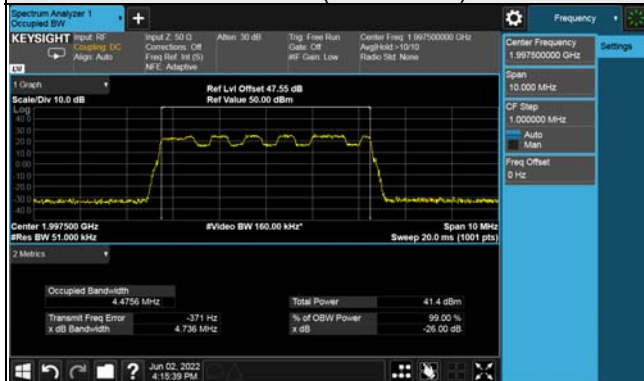


Ant. TX 2

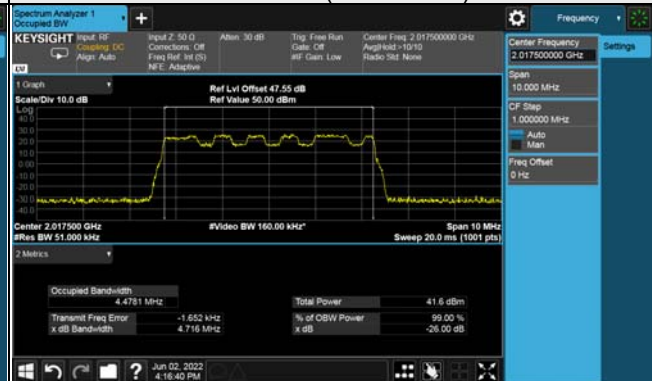
-26dBc Bandwidth

QPSK

Ch 399500 (1997.5MHz)



Ch 403500 (2017.5MHz)



16QAM

Ch 399500 (1997.5MHz)

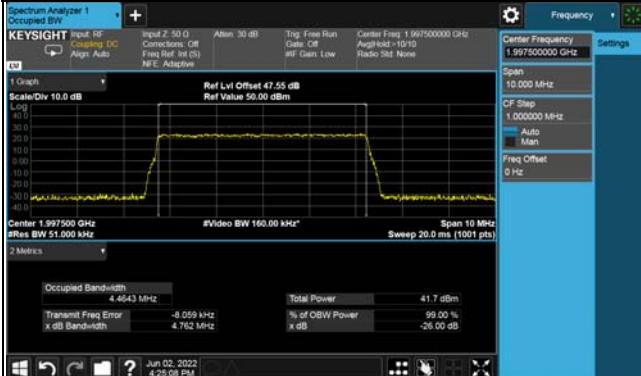


Ch 403500 (2017.5MHz)

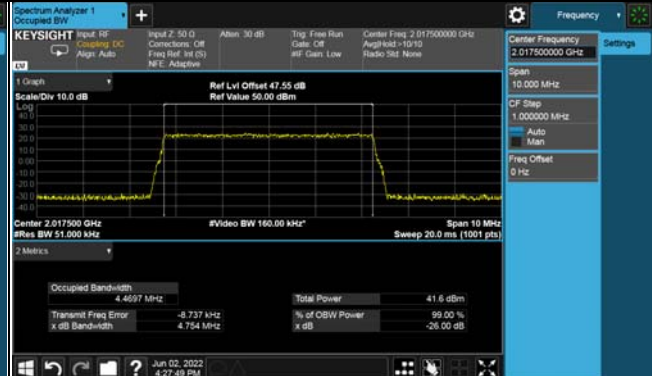


64QAM

Ch 399500 (1997.5MHz)

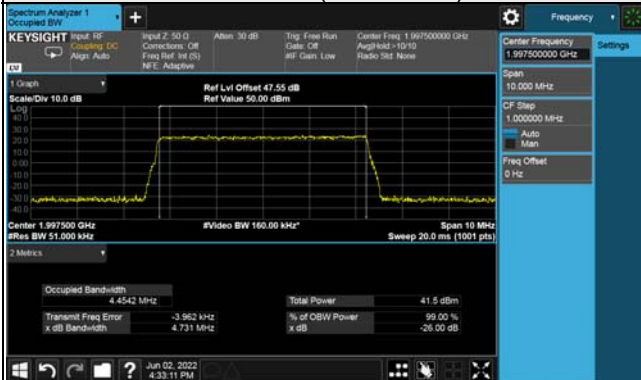


Ch 403500 (2017.5MHz)

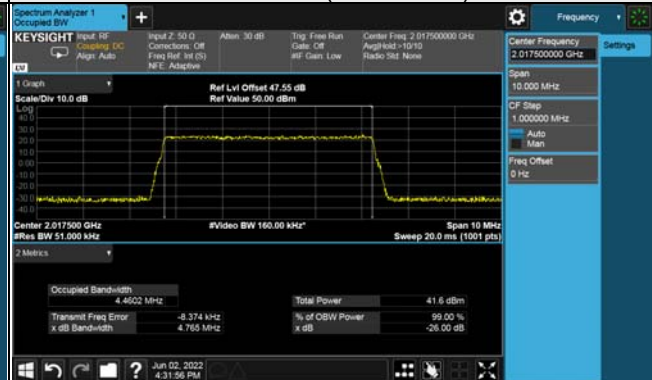


256QAM

Ch 399500 (1997.5MHz)



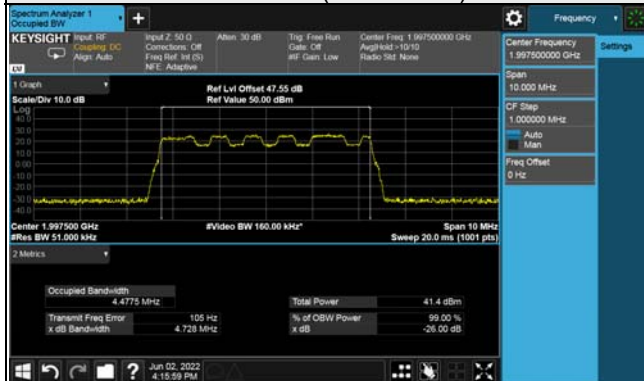
Ch 403500 (2017.5MHz)



Ant. TX 3

-26dBc Bandwidth QPSK

Ch 399500 (1997.5MHz)



Ch 403500 (2017.5MHz)



16QAM

Ch 399500 (1997.5MHz)

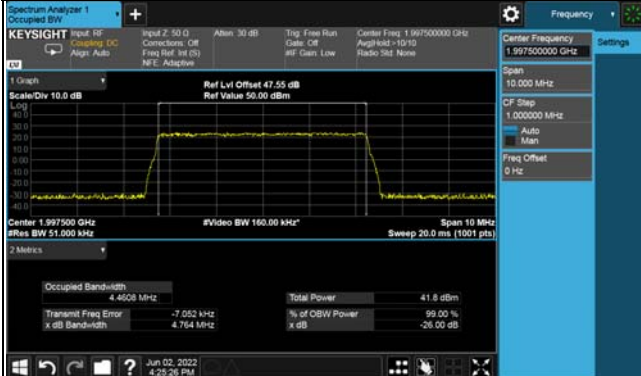


Ch 403500 (2017.5MHz)

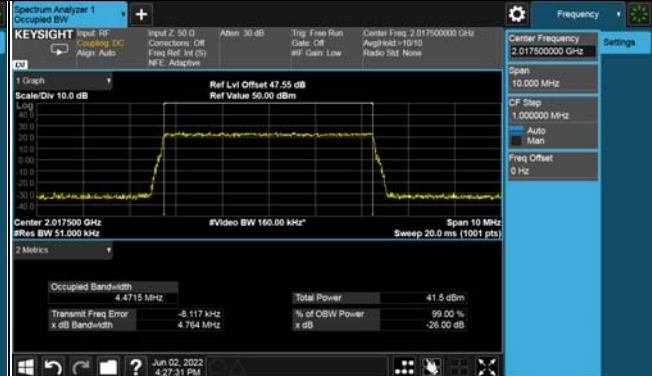


64QAM

Ch 399500 (1997.5MHz)

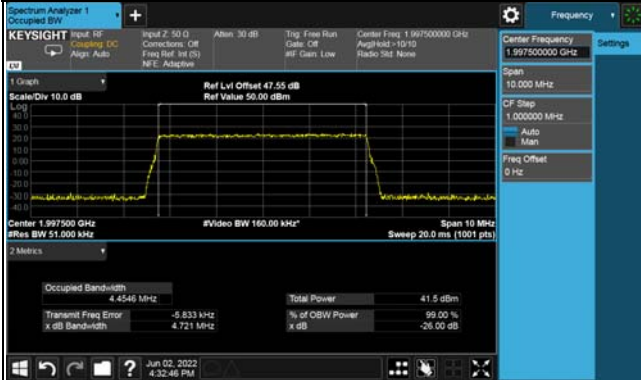


Ch 403500 (2017.5MHz)

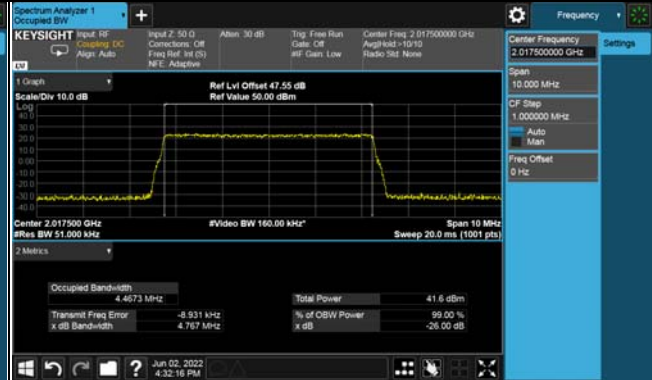


256QAM

Ch 399500 (1997.5MHz)



Ch 403500 (2017.5MHz)



4.4.5 Test Results (Occupied Bandwidth)

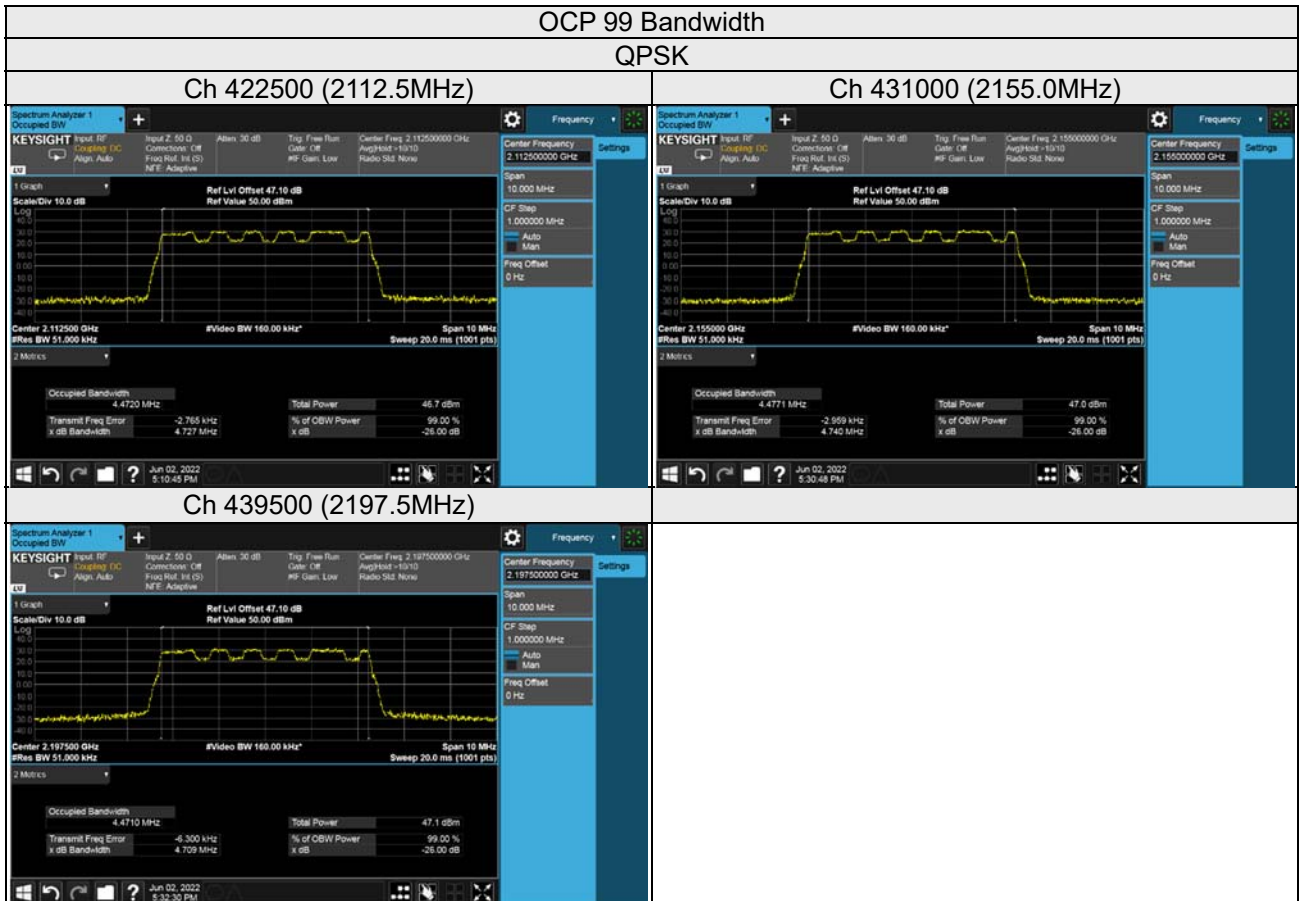
Band n66
Single Carrier

5MHz

Channel Number	Freq. (MHz)	OCP 99 Bandwidth (MHz)															
		Ant. TX0				Ant. TX1				Ant. TX2				Ant. TX3			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
422500	2112.5	4.47	4.47	4.46	4.46	4.47	4.48	4.46	4.46	4.48	4.47	4.46	4.45	4.47	4.48	4.46	4.46
431000	2155	4.48	4.48	4.47	4.46	4.48	4.47	4.46	4.46	4.48	4.47	4.46	4.45	4.48	4.47	4.46	4.46
439500	2197.5	4.47	4.48	4.46	4.46	4.47	4.48	4.46	4.46	4.48	4.47	4.46	4.45	4.47	4.47	4.47	4.46

OCP 99 Bandwidth

Ant. TX 0

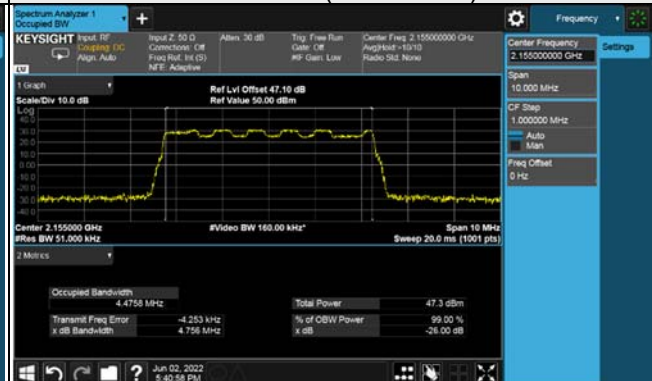


16QAM

Ch 422500 (2112.5MHz)



Ch 431000 (2155.0MHz)

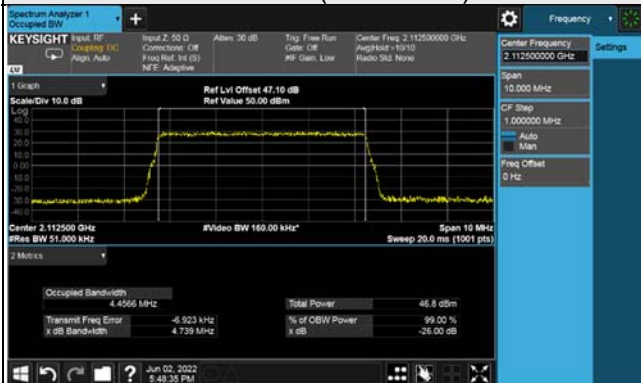


Ch 439500 (2197.5MHz)

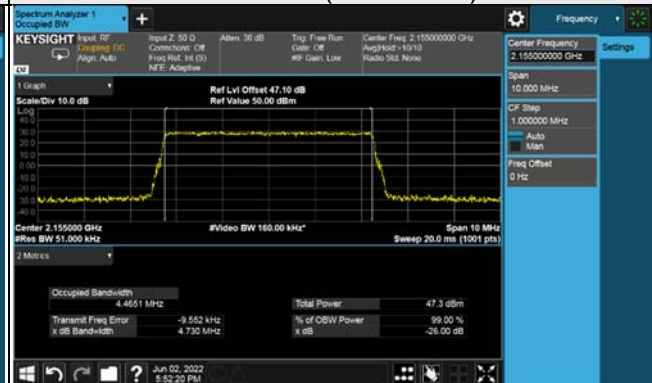


64QAM

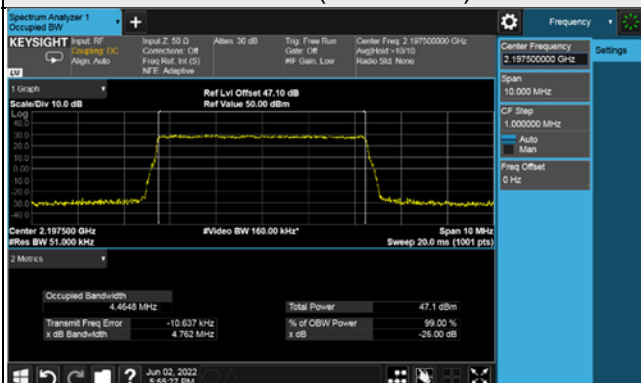
Ch 422500 (2112.5MHz)



Ch 431000 (2155.0MHz)

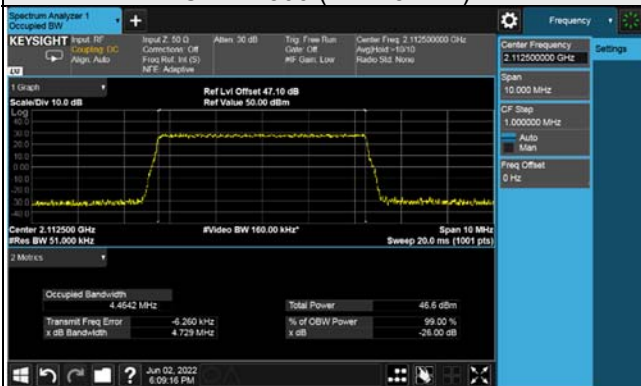


Ch 439500 (2197.5MHz)

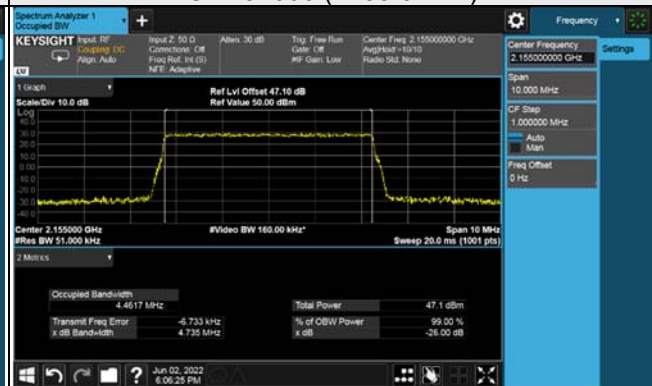


256QAM

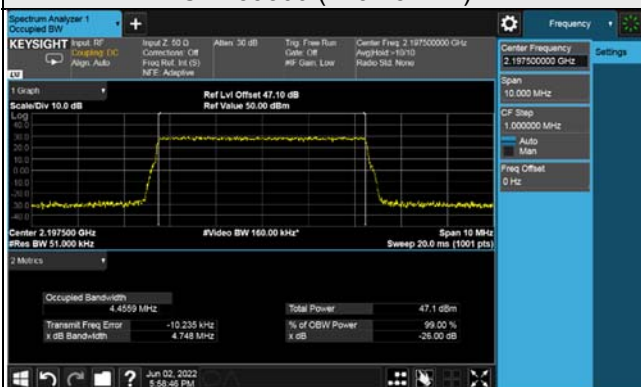
Ch 422500 (2112.5MHz)



Ch 431000 (2155.0MHz)



Ch 439500 (2197.5MHz)

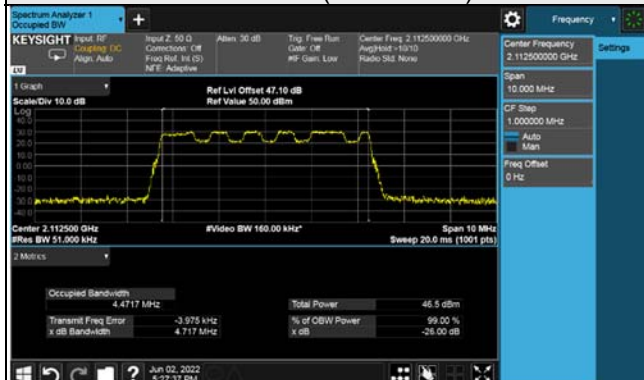


Ant. TX 1

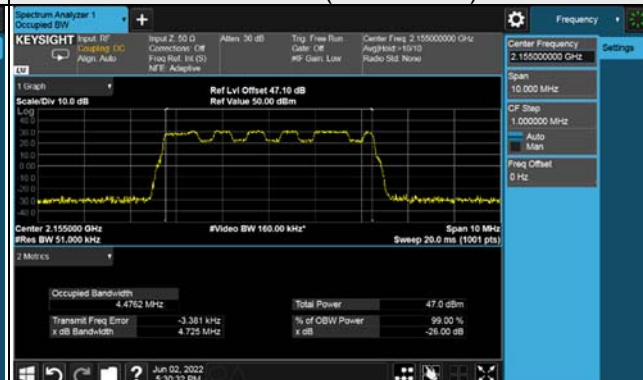
OCP 99 Bandwidth

QPSK

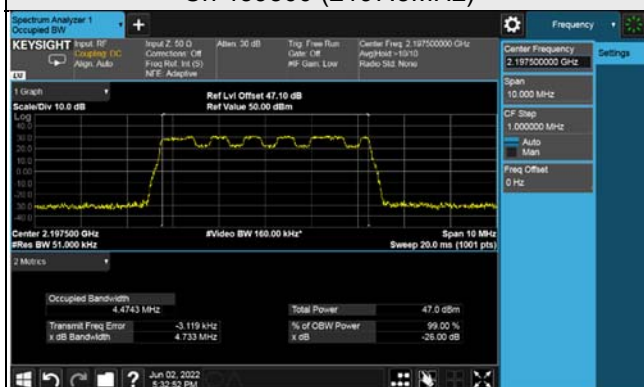
Ch 422500 (2112.5MHz)



Ch 431000 (2155.0MHz)

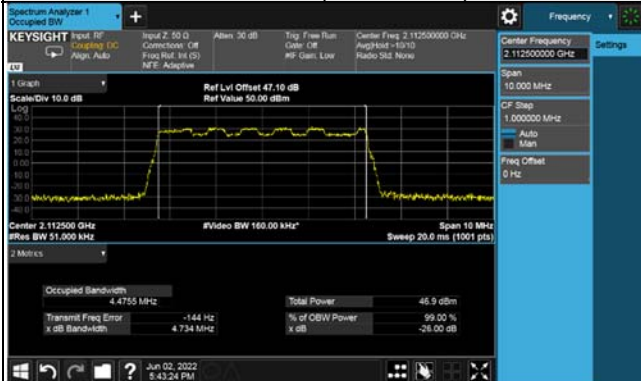


Ch 439500 (2197.5MHz)



16QAM

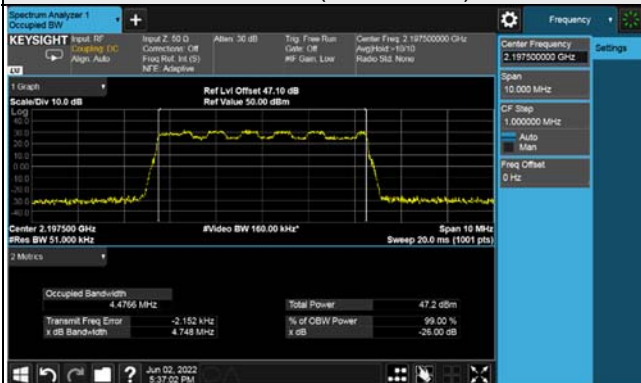
Ch 422500 (2112.5MHz)



Ch 431000 (2155.0MHz)

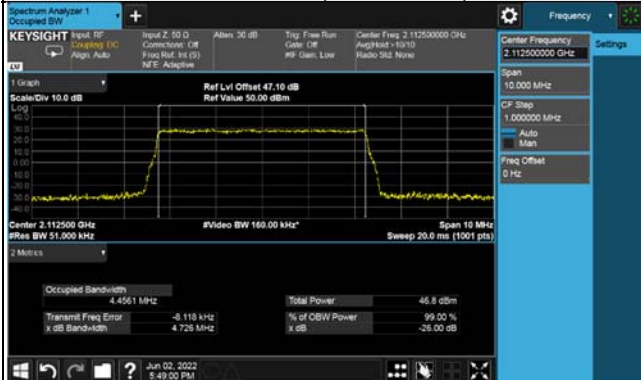


Ch 439500 (2197.5MHz)

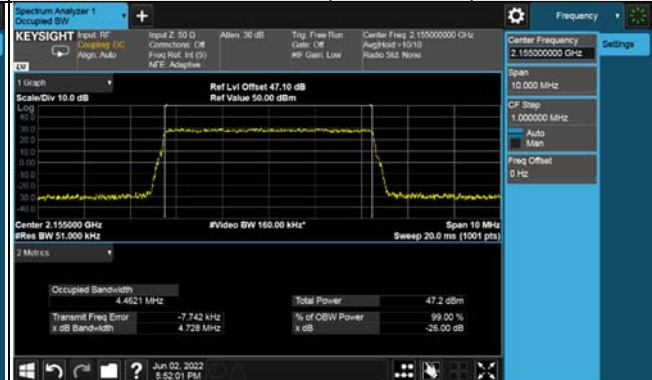


64QAM

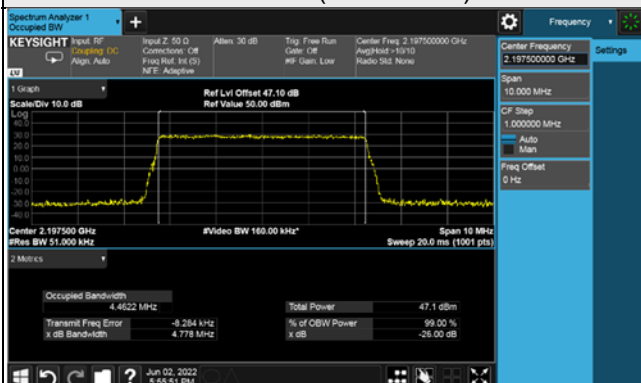
Ch 422500 (2112.5MHz)



Ch 431000 (2155.0MHz)

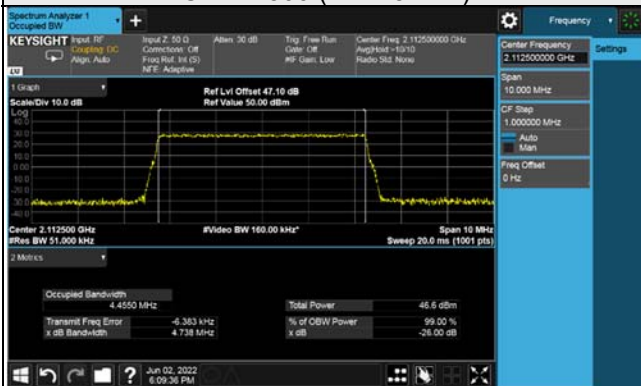


Ch 439500 (2197.5MHz)

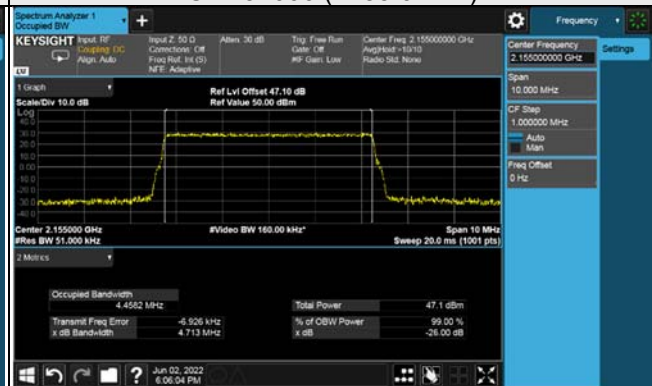


256QAM

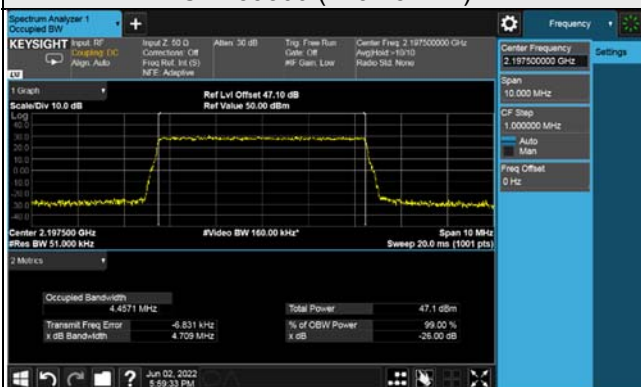
Ch 422500 (2112.5MHz)



Ch 431000 (2155.0MHz)



Ch 439500 (2197.5MHz)

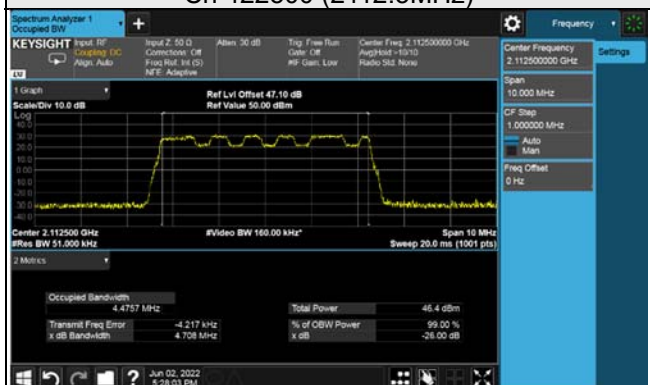


Ant. TX 2

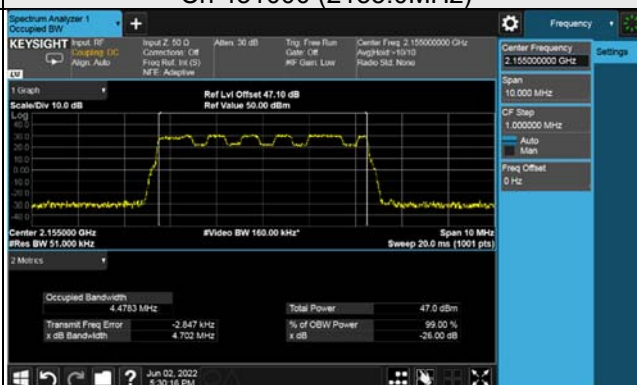
OCP 99 Bandwidth

QPSK

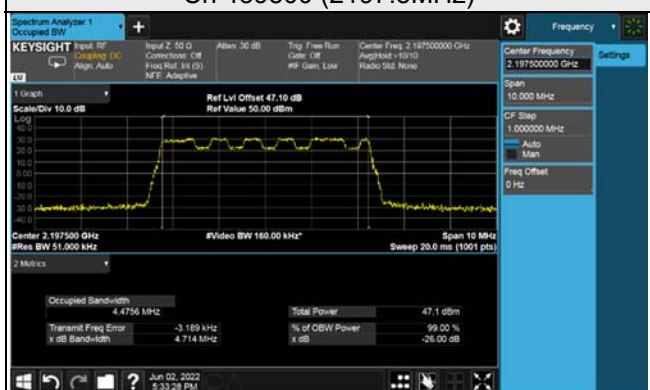
Ch 422500 (2112.5MHz)



Ch 431000 (2155.0MHz)

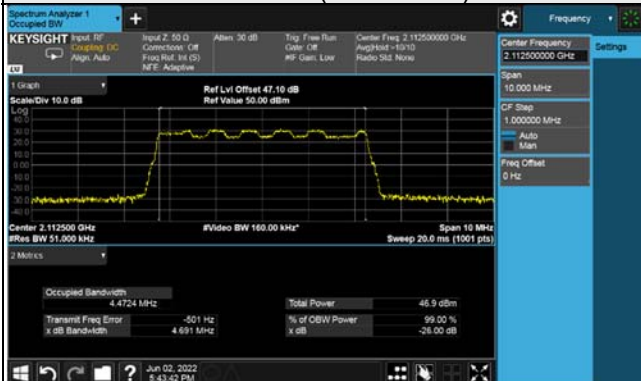


Ch 439500 (2197.5MHz)



16QAM

Ch 422500 (2112.5MHz)



Ch 431000 (2155.0MHz)

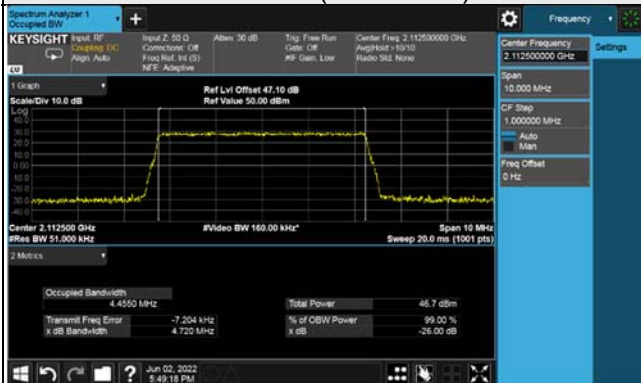


Ch 439500 (2197.5MHz)

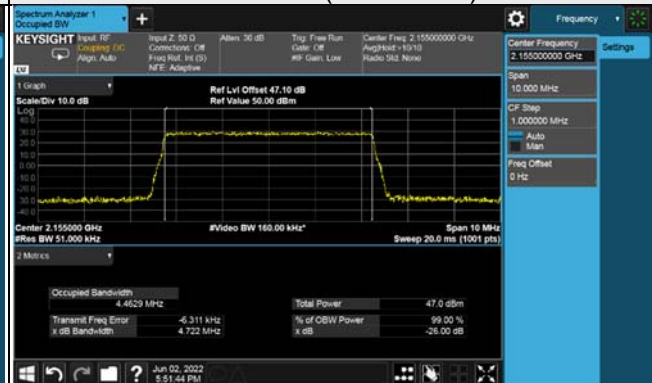


64QAM

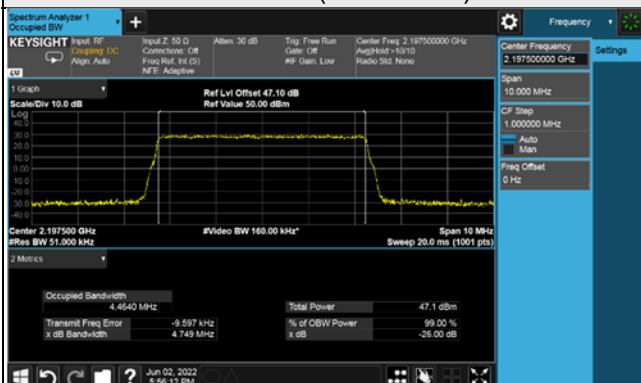
Ch 422500 (2112.5MHz)



Ch 431000 (2155.0MHz)

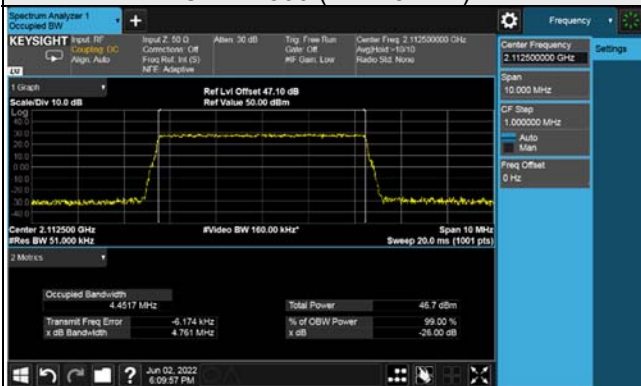


Ch 439500 (2197.5MHz)

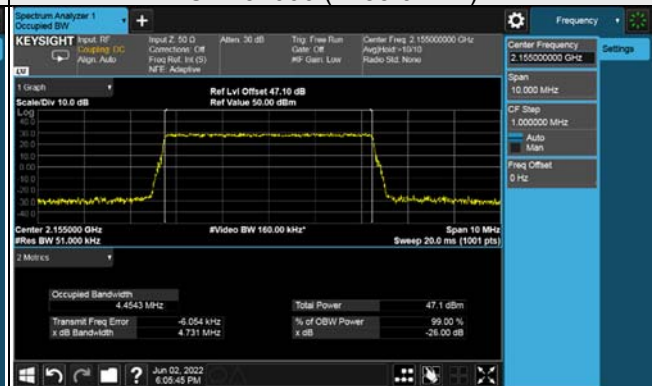


256QAM

Ch 422500 (2112.5MHz)



Ch 431000 (2155.0MHz)



Ch 439500 (2197.5MHz)

