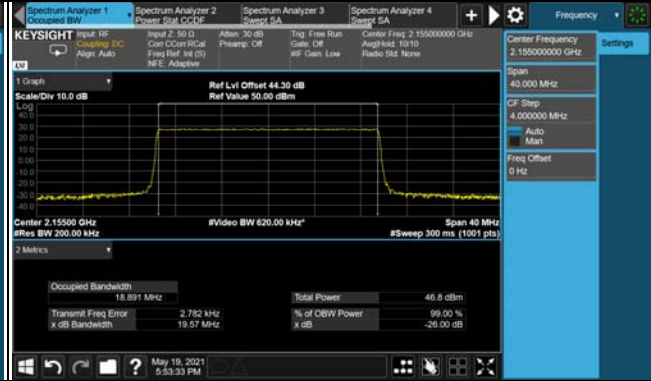


256QAM

Ch 424000 (2120.0MHz)



Ch 431000 (2155.0MHz)



Ch 438000 (2190.0MHz)



Band n70 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
399500	1997.5	4.47	4.47	4.46	4.46	4.47	4.47	4.46	4.46	4.48	4.47	4.46	4.46	4.47	4.47	4.46	4.46
401500	2007.5	4.47	4.48	4.46	4.46	4.47	4.48	4.46	4.46	4.47	4.48	4.46	4.46	4.47	4.48	4.46	4.46
403500	2017.5	4.48	4.47	4.46	4.46	4.48	4.47	4.46	4.46	4.48	4.47	4.46	4.46	4.48	4.47	4.46	4.46

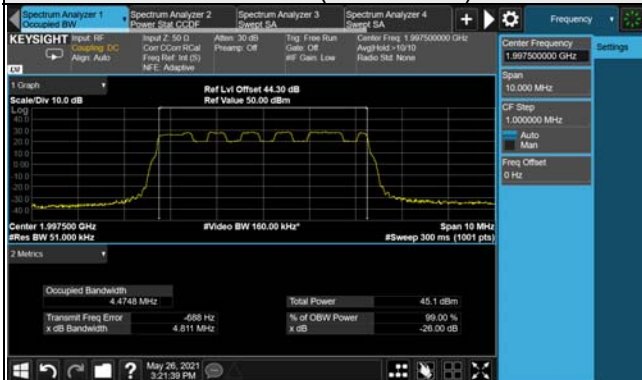
Ant. TX 0

Spectrum Plot of Worst Value

OCP 99 Bandwidth

QPSK

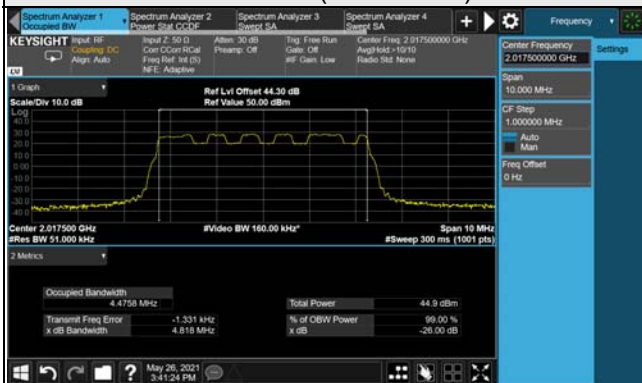
Ch 399500 (1997.5MHz)



Ch 401500 (2007.5MHz)



Ch 403500 (2017.5MHz)

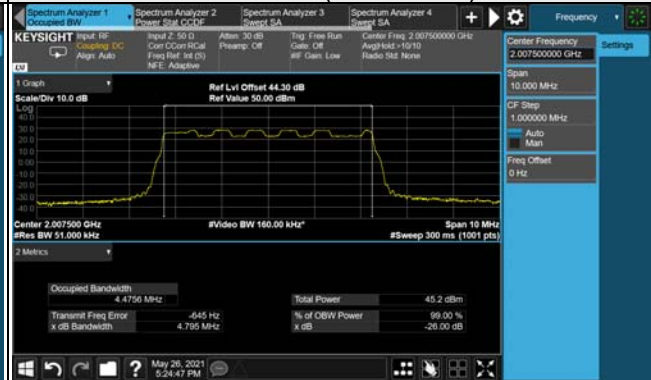


16QAM

Ch 399500 (1997.5MHz)



Ch 401500 (2007.5MHz)

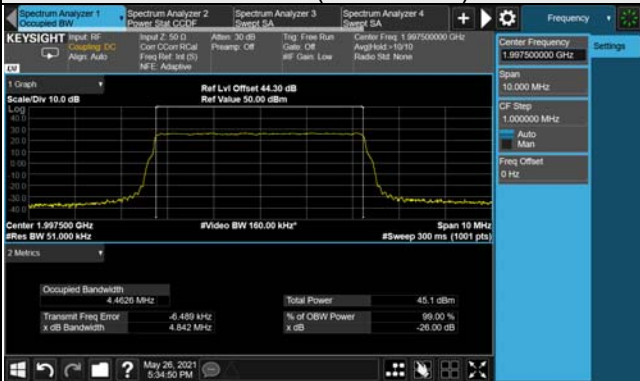


Ch 403500 (2017.5MHz)

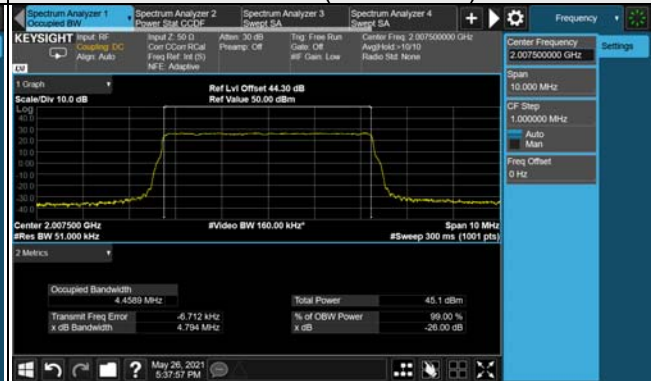


64QAM

Ch 399500 (1997.5MHz)



Ch 401500 (2007.5MHz)



Ch 403500 (2017.5MHz)



256QAM

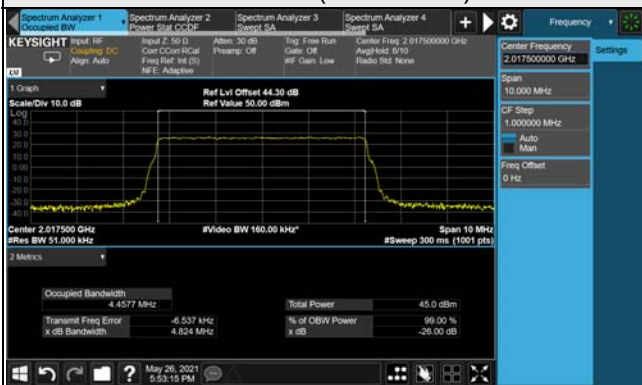
Ch 399500 (1997.5MHz)



Ch 401500 (2007.5MHz)



Ch 403500 (2017.5MHz)



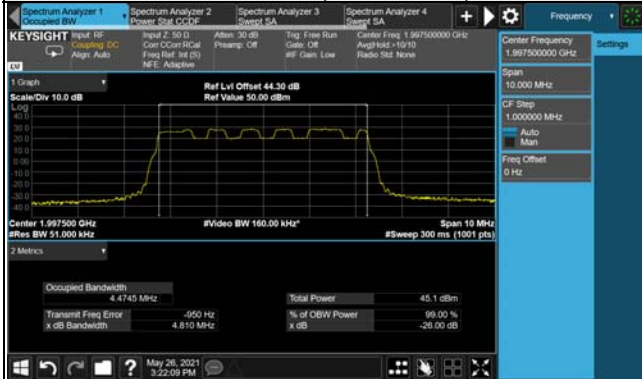
Ant. TX 1

Spectrum Plot of Worst Value

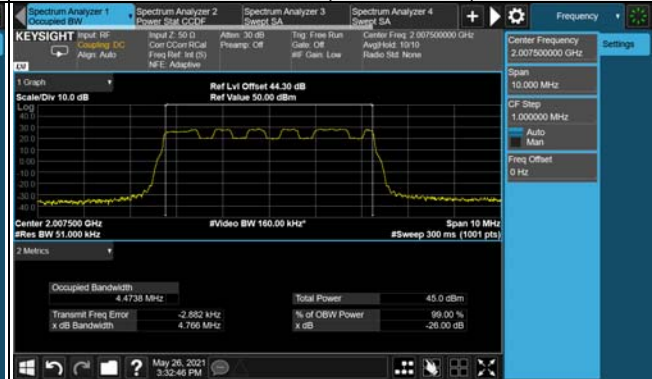
OCP 99 Bandwidth

QPSK

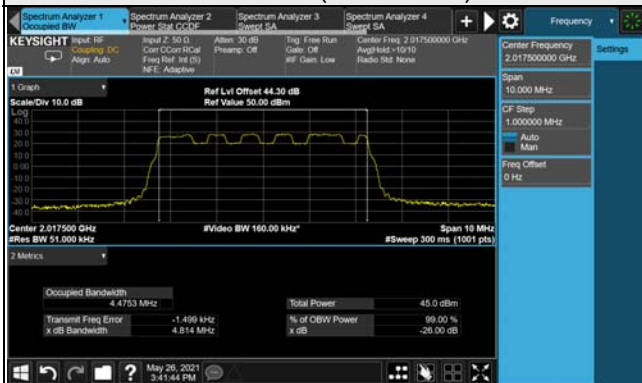
Ch 399500 (1997.5MHz)



Ch 401500 (2007.5MHz)

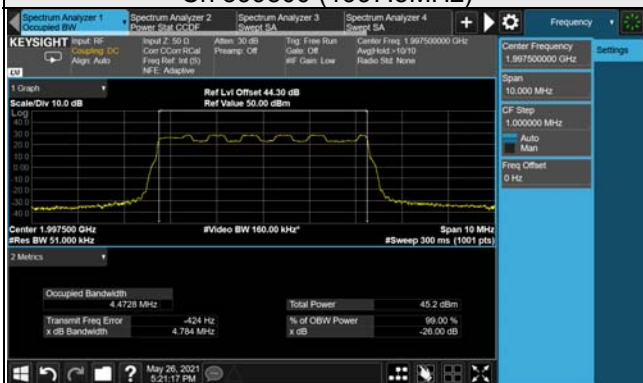


Ch 403500 (2017.5MHz)

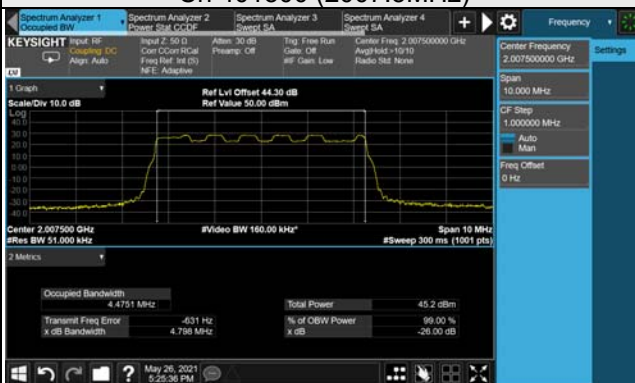


16QAM

Ch 399500 (1997.5MHz)



Ch 401500 (2007.5MHz)

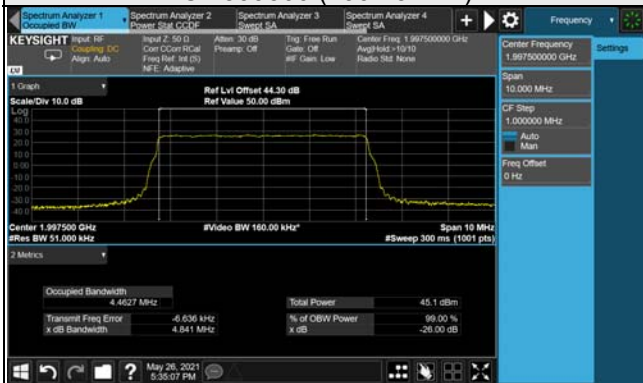


Ch 403500 (2017.5MHz)

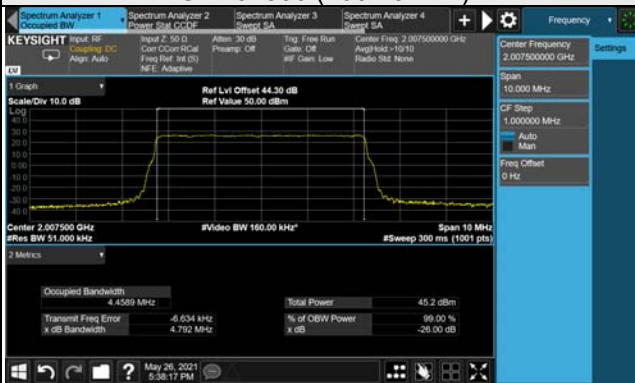


64QAM

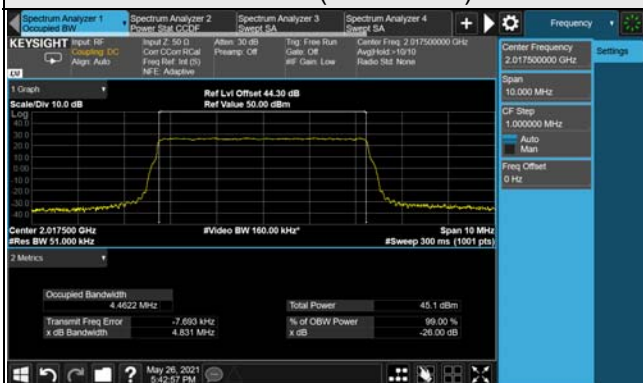
Ch 399500 (1997.5MHz)



Ch 401500 (2007.5MHz)

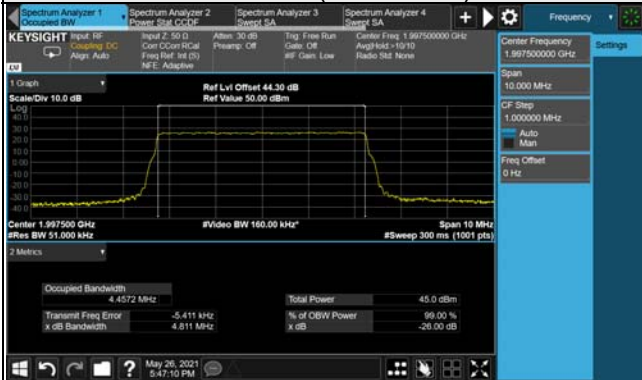


Ch 403500 (2017.5MHz)

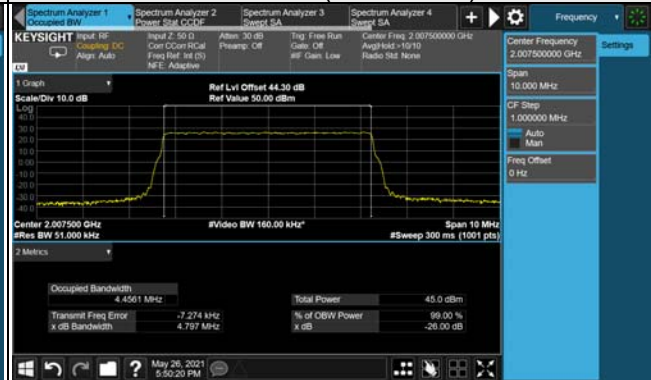


256QAM

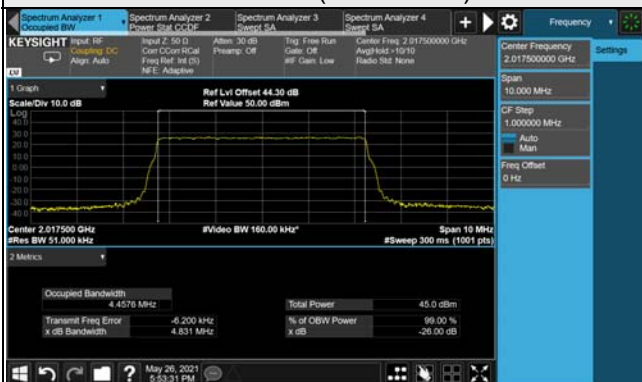
Ch 399500 (1997.5MHz)



Ch 401500 (2007.5MHz)



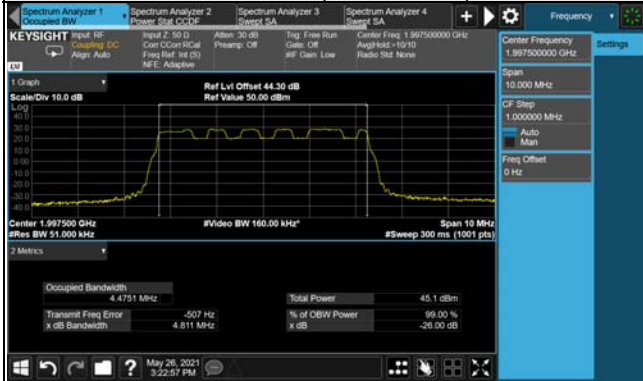
Ch 403500 (2017.5MHz)



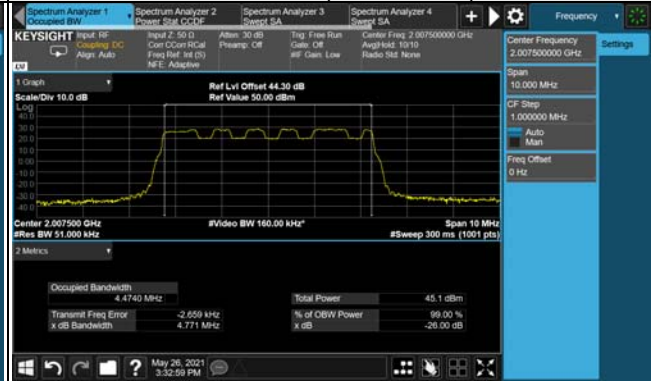
Ant. TX 2

Spectrum Plot of Worst Value
OCP 99 Bandwidth
QPSK

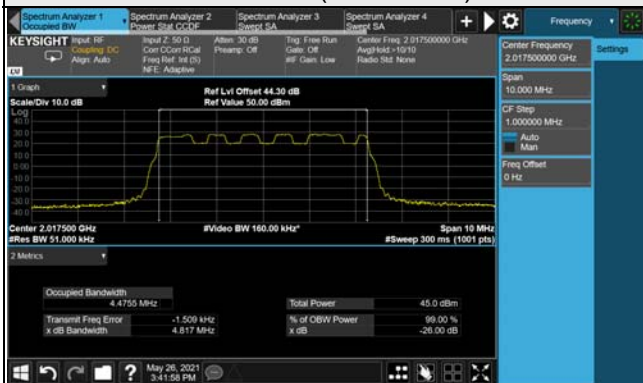
Ch 399500 (1997.5MHz)



Ch 401500 (2007.5MHz)



Ch 403500 (2017.5MHz)

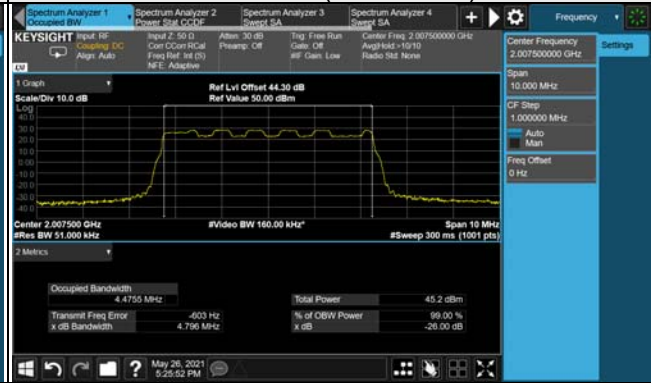


16QAM

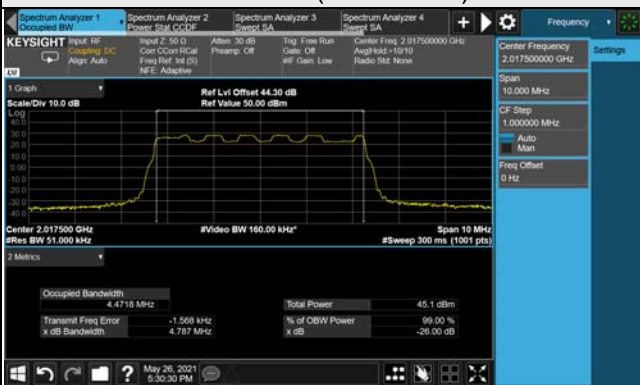
Ch 399500 (1997.5MHz)



Ch 401500 (2007.5MHz)



Ch 403500 (2017.5MHz)



64QAM

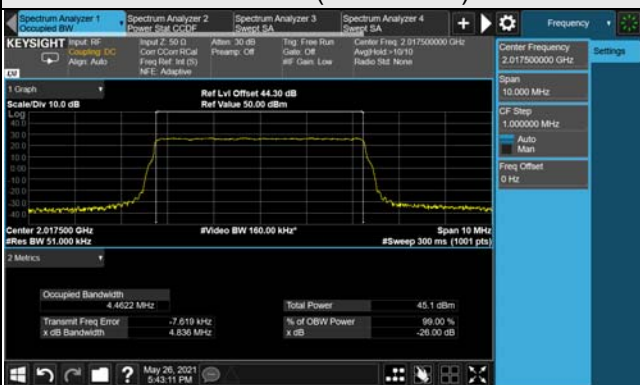
Ch 399500 (1997.5MHz)



Ch 401500 (2007.5MHz)

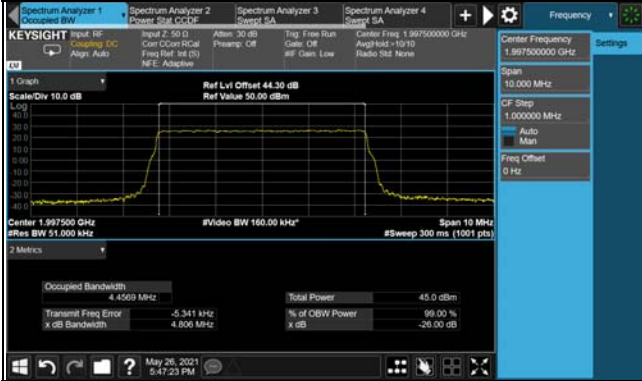


Ch 403500 (2017.5MHz)

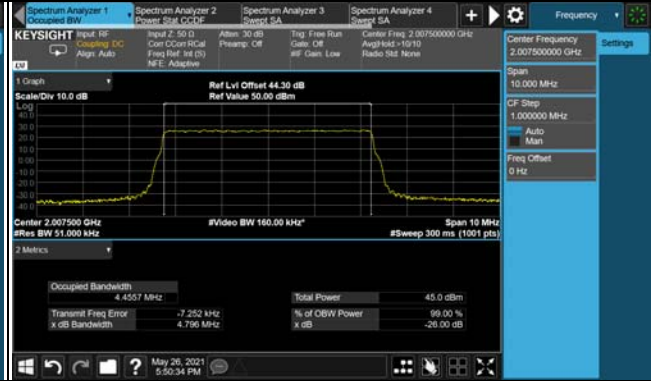


256QAM

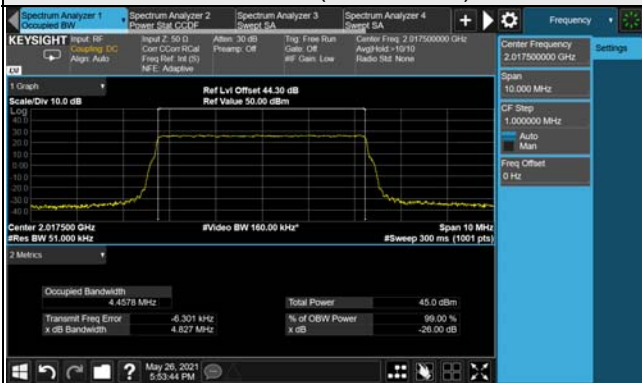
Ch 399500 (1997.5MHz)



Ch 401500 (2007.5MHz)



Ch 403500 (2017.5MHz)



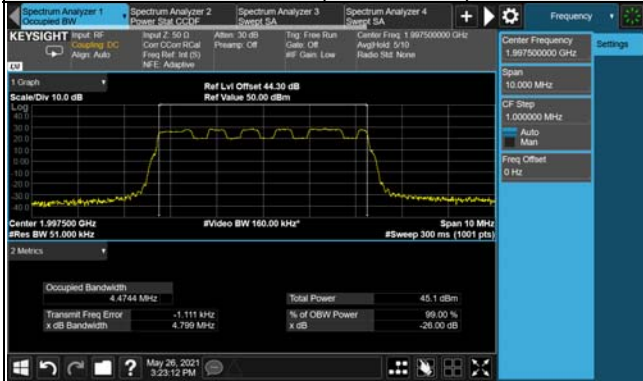
Ant. TX 3

Spectrum Plot of Worst Value

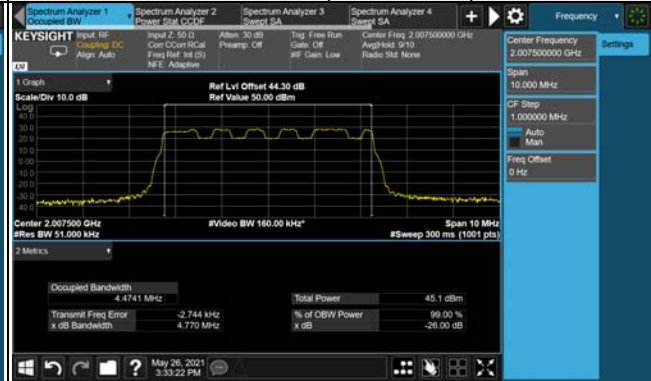
OCP 99 Bandwidth

QPSK

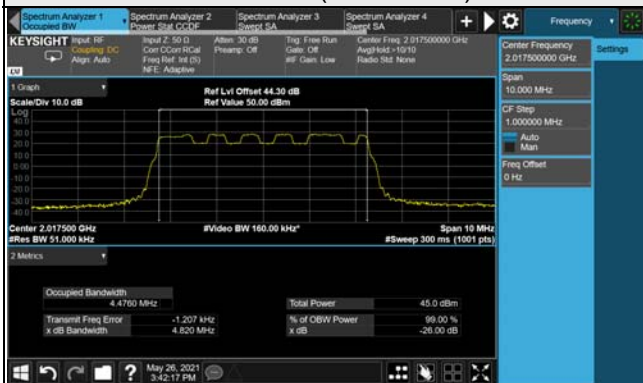
Ch 399500 (1997.5MHz)



Ch 401500 (2007.5MHz)

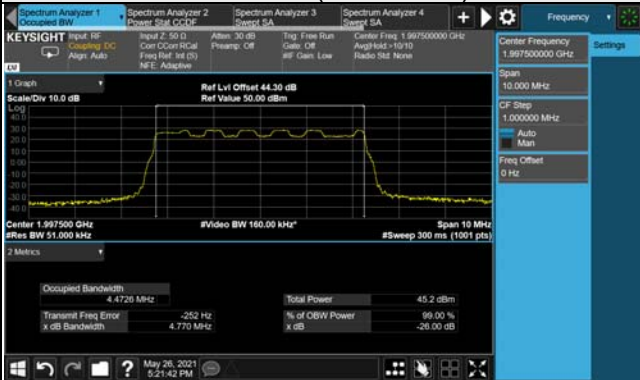


Ch 403500 (2017.5MHz)

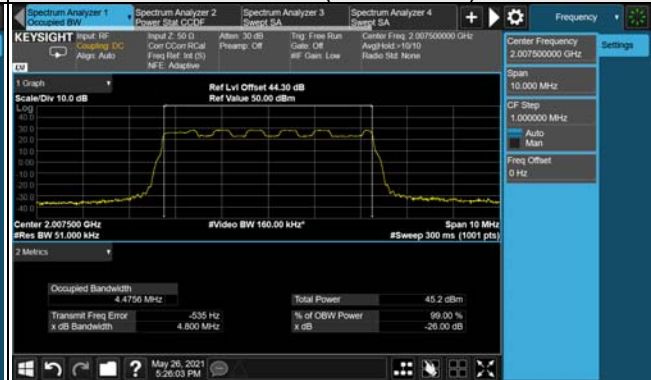


16QAM

Ch 399500 (1997.5MHz)



Ch 401500 (2007.5MHz)

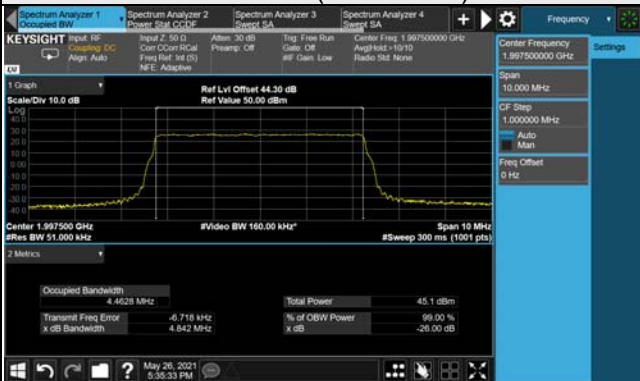


Ch 403500 (2017.5MHz)

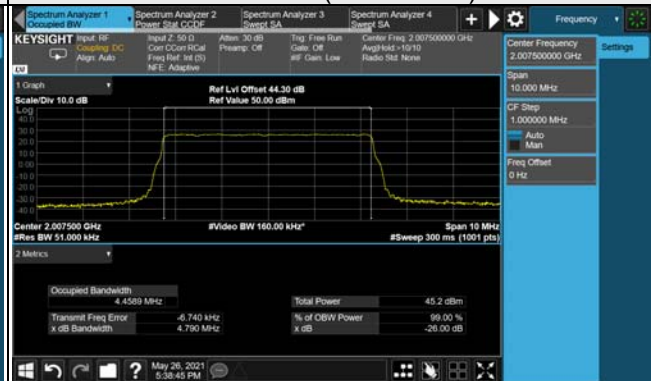


64QAM

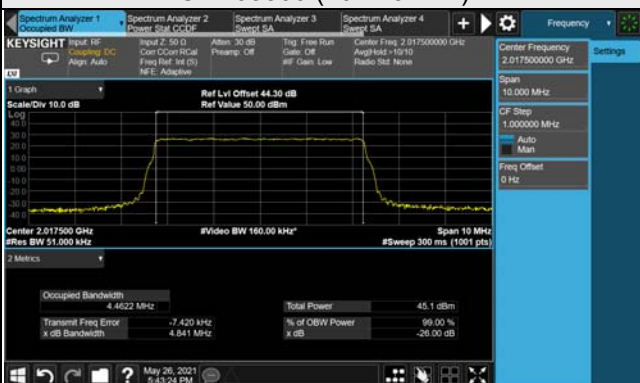
Ch 399500 (1997.5MHz)



Ch 401500 (2007.5MHz)

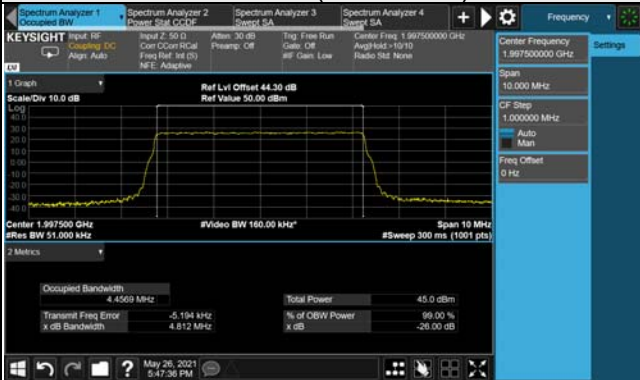


Ch 403500 (2017.5MHz)

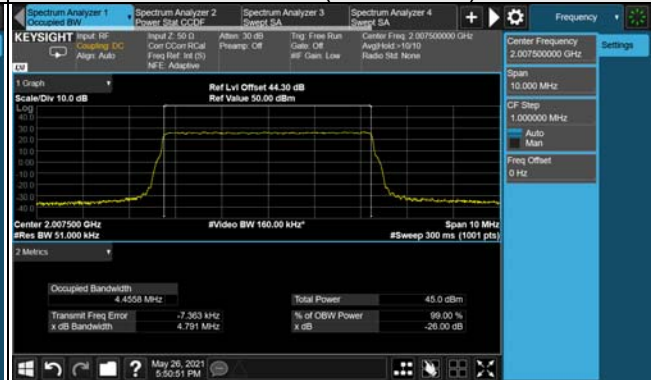


256QAM

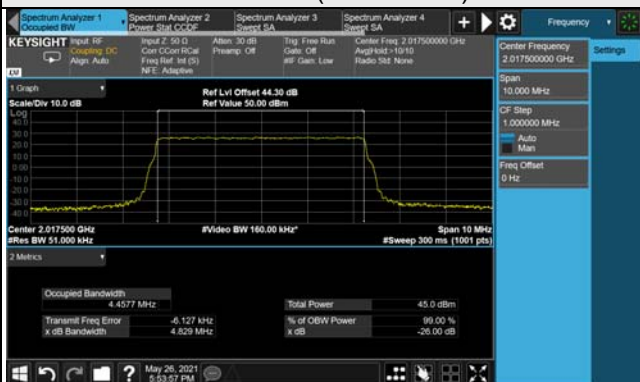
Ch 399500 (1997.5MHz)



Ch 401500 (2007.5MHz)



Ch 403500 (2017.5MHz)



10MHz

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
400000	2000	9.16	9.24	9.29	9.28	9.16	9.24	9.29	9.28	9.16	9.24	9.29	9.28	9.16	9.24	9.29	9.28
401500	2007.5	9.17	9.24	9.29	9.28	9.16	9.24	9.29	9.28	9.16	9.24	9.29	9.28	9.16	9.24	9.29	9.28
403000	2015	9.16	9.24	9.29	9.28	9.16	9.24	9.29	9.28	9.16	9.24	9.29	9.28	9.16	9.24	9.29	9.28

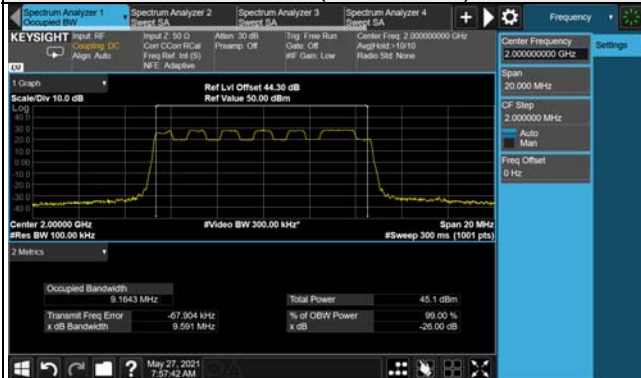
Ant. TX 0

Spectrum Plot of Worst Value

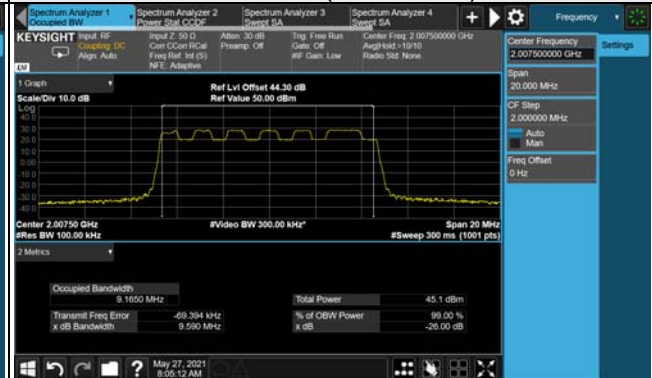
OCP 99 Bandwidth

QPSK

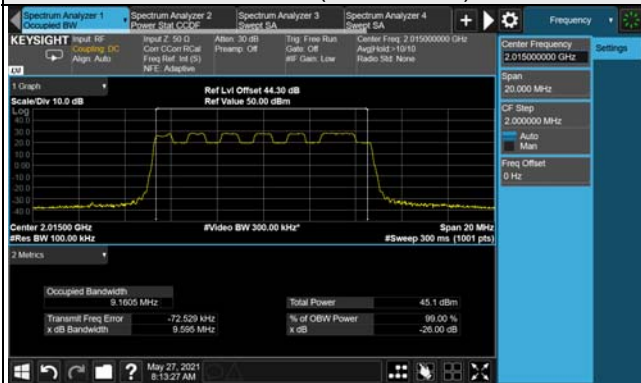
Ch 400000 (2000.0MHz)



Ch 401500 (2007.5MHz)

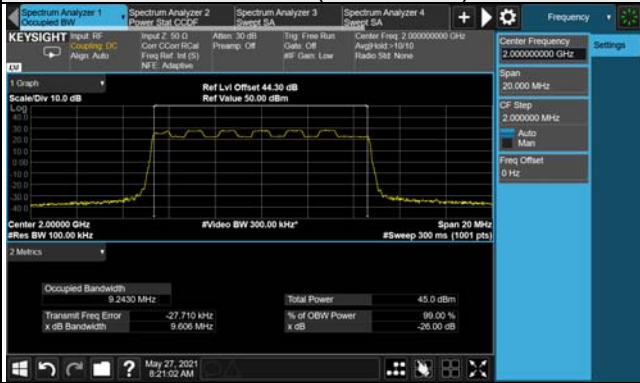


Ch 403000 (2015.0MHz)



16QAM

Ch 400000 (2000.0MHz)



Ch 401500 (2007.5MHz)

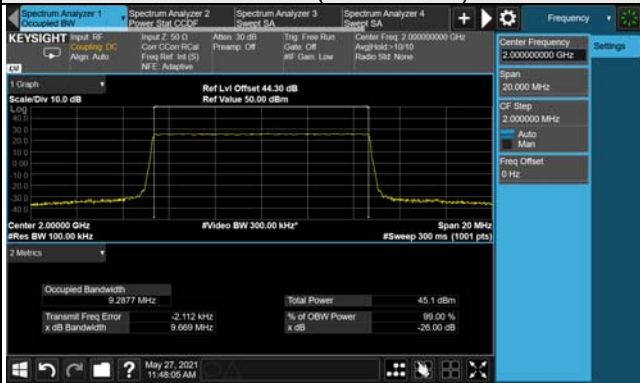


Ch 403000 (2015.0MHz)

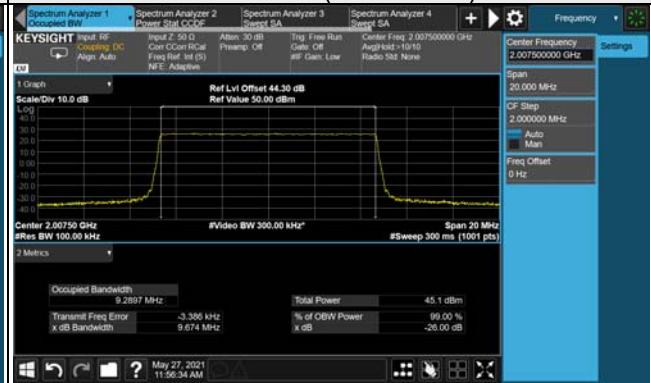


64QAM

Ch 400000 (2000.0MHz)



Ch 401500 (2007.5MHz)



Ch 403000 (2015.0MHz)

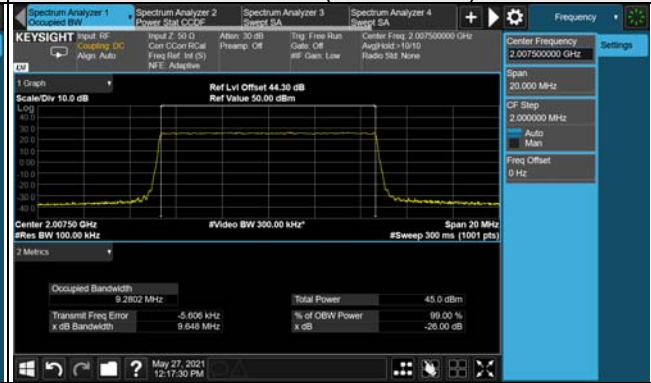


256QAM

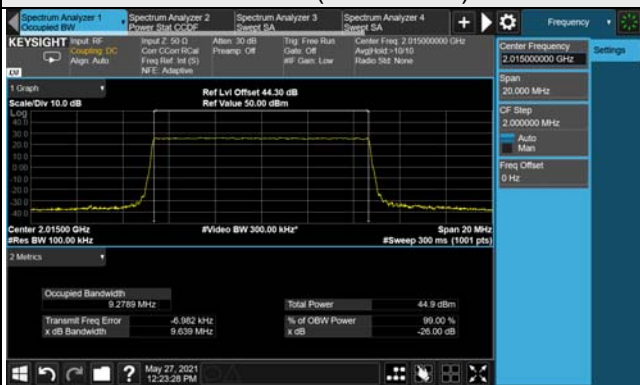
Ch 400000 (2000.0MHz)



Ch 401500 (2007.5MHz)



Ch 403000 (2015.0MHz)



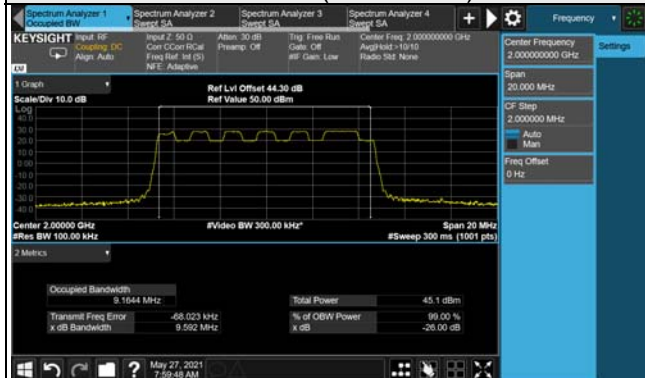
Ant. TX 1

Spectrum Plot of Worst Value

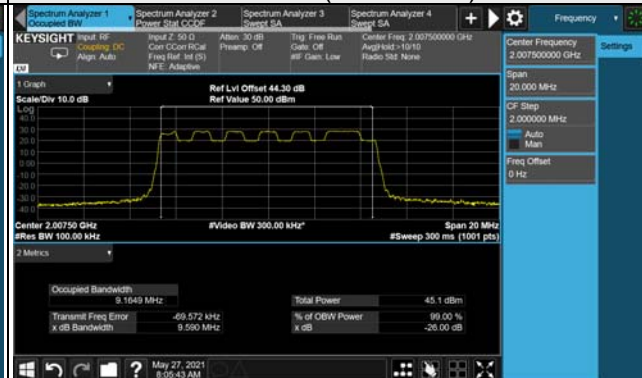
OCP 99 Bandwidth

QPSK

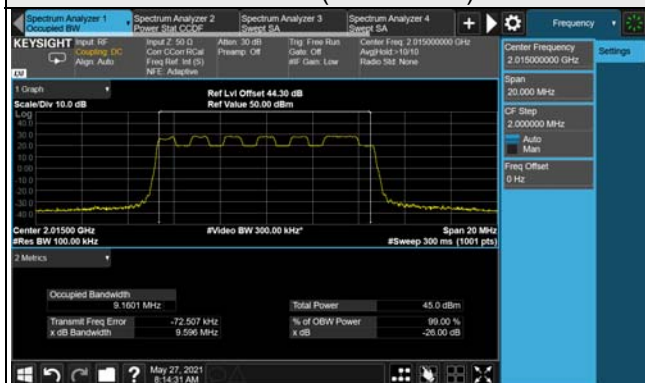
Ch 400000 (2000.0MHz)



Ch 401500 (2007.5MHz)

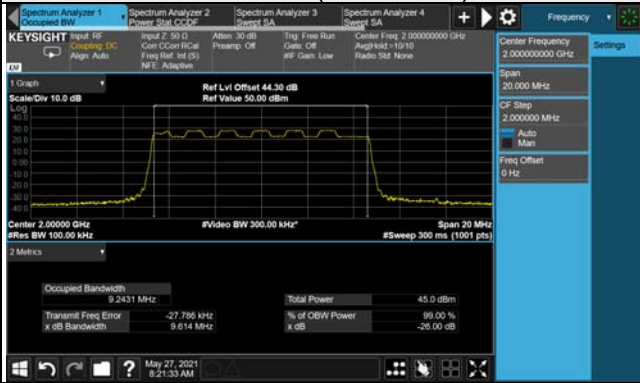


Ch 403000 (2015.0MHz)

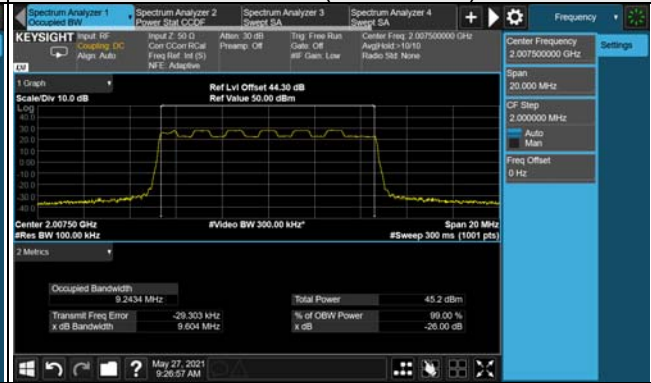


16QAM

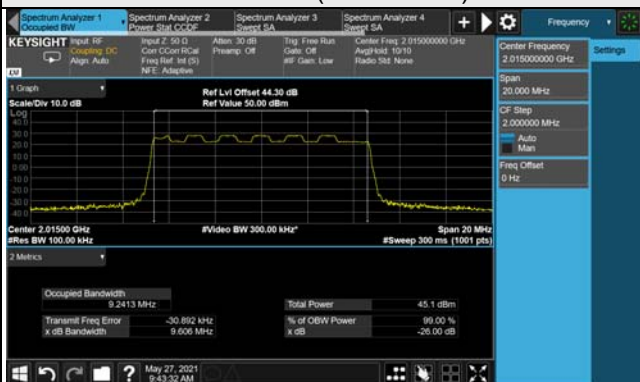
Ch 400000 (2000.0MHz)



Ch 401500 (2007.5MHz)



Ch 403000 (2015.0MHz)

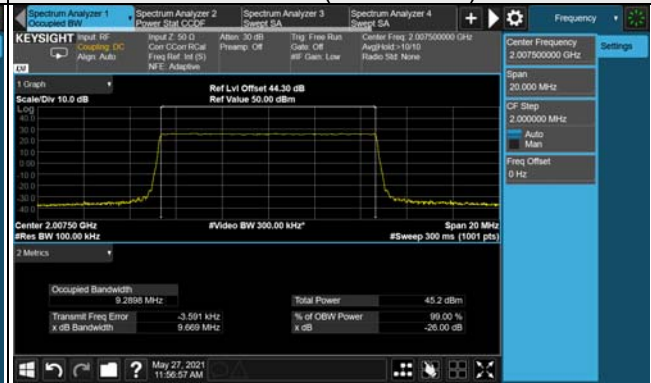


64QAM

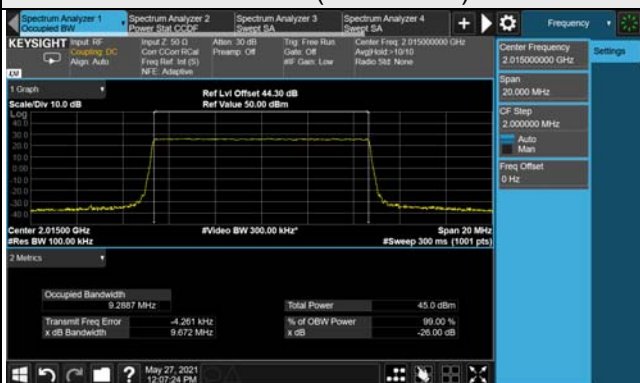
Ch 400000 (2000.0MHz)



Ch 401500 (2007.5MHz)



Ch 403000 (2015.0MHz)

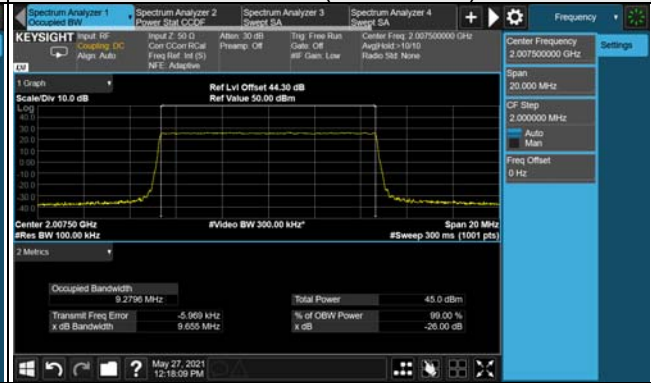


256QAM

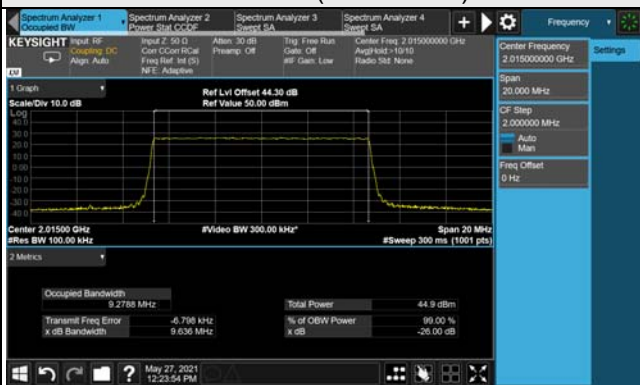
Ch 400000 (2000.0MHz)



Ch 401500 (2007.5MHz)



Ch 403000 (2015.0MHz)



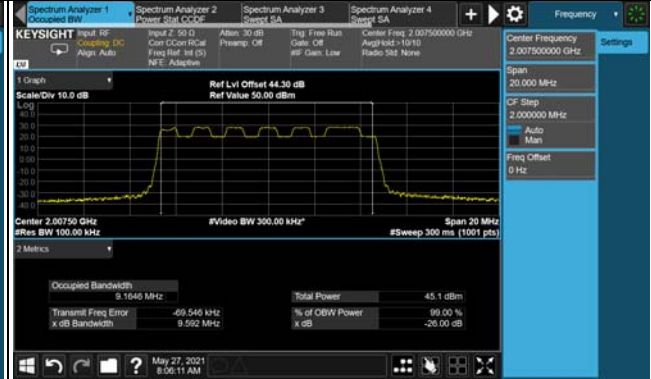
Ant. TX 2

Spectrum Plot of Worst Value
OCP 99 Bandwidth
QPSK

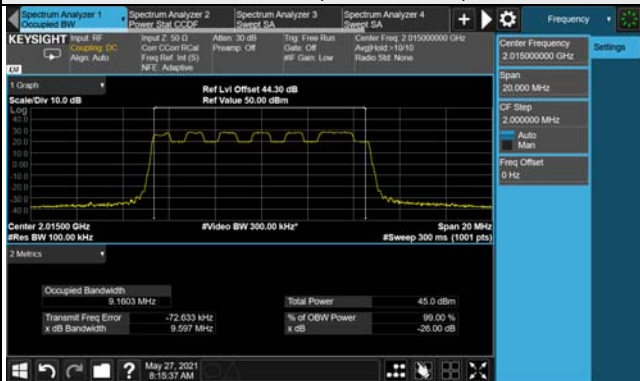
Ch 400000 (2000.0MHz)



Ch 401500 (2007.5MHz)

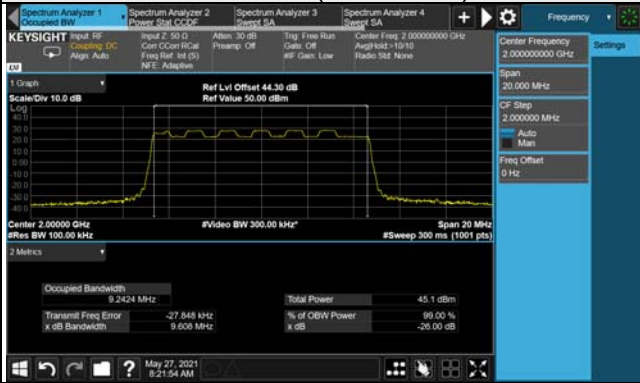


Ch 403000 (2015.0MHz)



16QAM

Ch 400000 (2000.0MHz)



Ch 401500 (2007.5MHz)

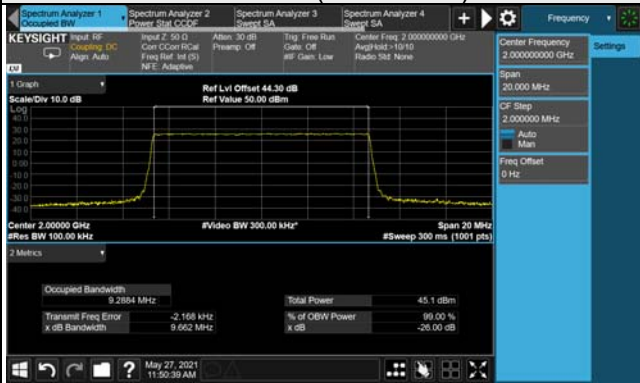


Ch 403000 (2015.0MHz)



64QAM

Ch 400000 (2000.0MHz)



Ch 401500 (2007.5MHz)

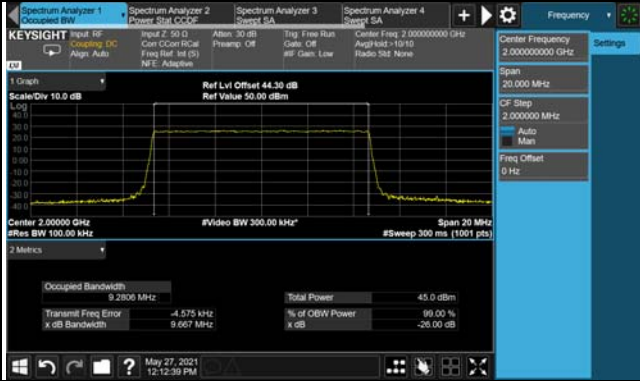


Ch 403000 (2015.0MHz)



256QAM

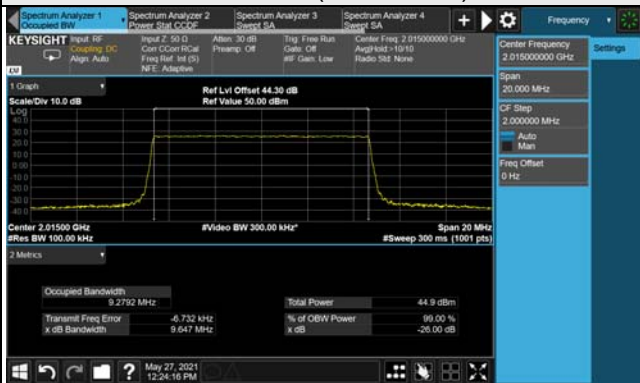
Ch 400000 (2000.0MHz)



Ch 401500 (2007.5MHz)



Ch 403000 (2015.0MHz)



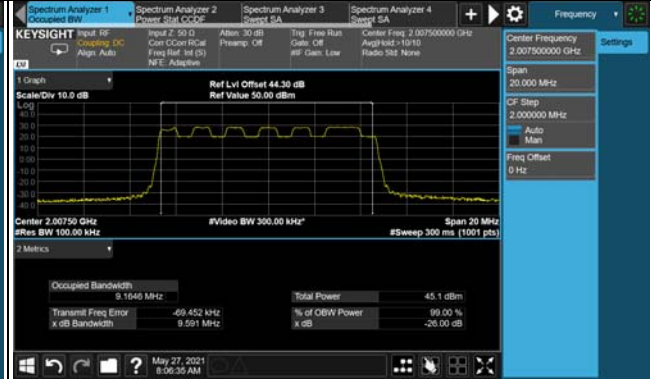
Ant. TX 3

Spectrum Plot of Worst Value
OCP 99 Bandwidth
QPSK

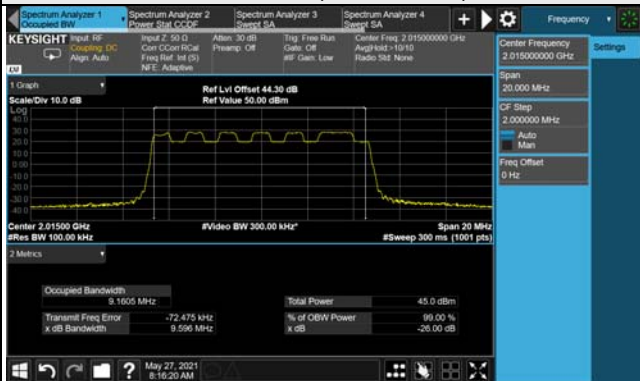
Ch 400000 (2000.0MHz)



Ch 401500 (2007.5MHz)

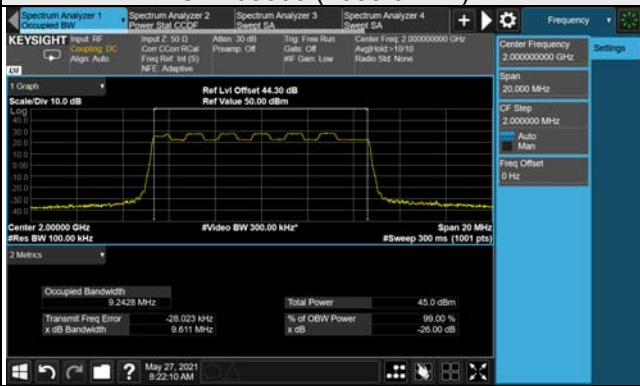


Ch 403000 (2015.0MHz)



16QAM

Ch 400000 (2000.0MHz)



Ch 401500 (2007.5MHz)



Ch 403000 (2015.0MHz)

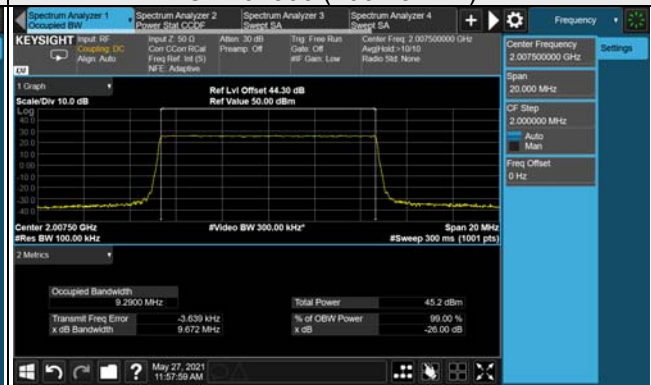


64QAM

Ch 400000 (2000.0MHz)



Ch 401500 (2007.5MHz)



Ch 403000 (2015.0MHz)

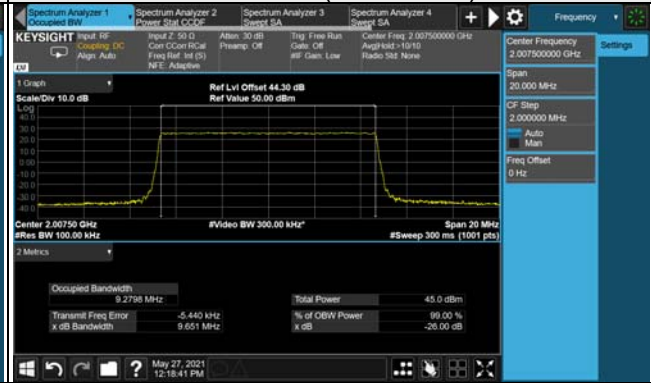


256QAM

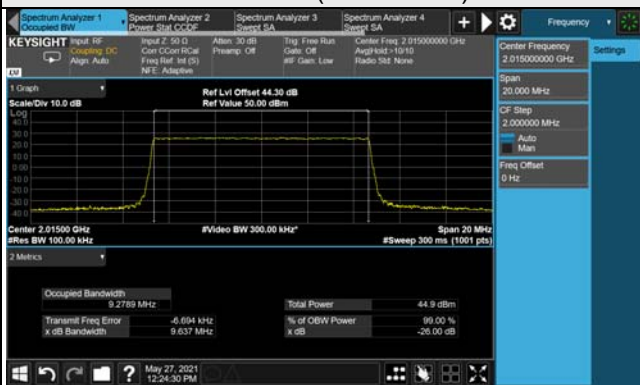
Ch 400000 (2000.0MHz)



Ch 401500 (2007.5MHz)



Ch 403000 (2015.0MHz)



15MHz

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
400500	2002.5	14.09	14.10	14.06	14.06	14.10	14.10	14.06	14.06	14.10	14.10	14.06	14.06	14.10	14.10	14.06	14.06
401500	2007.5	14.10	14.10	14.06	14.06	14.10	14.10	14.06	14.06	14.10	14.10	14.06	14.06	14.10	14.10	14.06	14.06
402500	2012.5	14.10	14.10	14.06	14.06	14.10	14.10	14.06	14.06	14.10	14.10	14.06	14.06	14.10	14.10	14.06	14.06

Ant. TX 0

Spectrum Plot of Worst Value

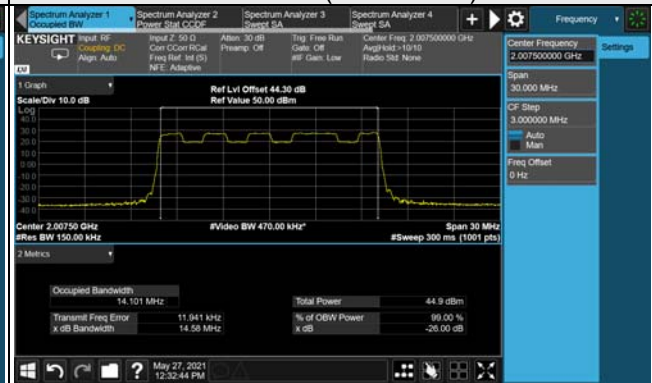
OCP 99 Bandwidth

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)

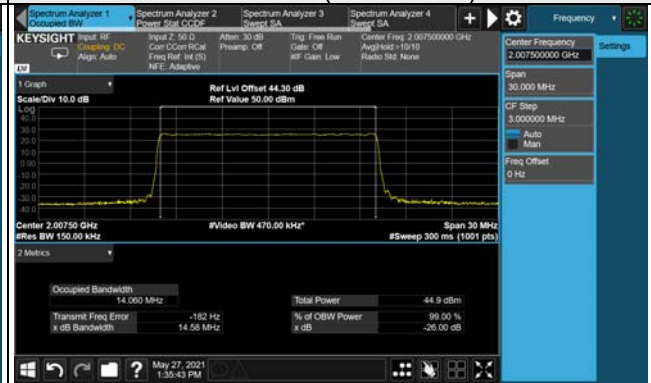


64QAM

Ch 400500 (2002.5MHz)



Ch 401500 (2007.5MHz)

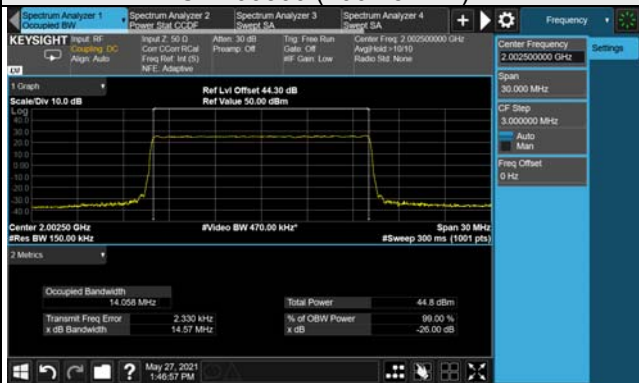


Ch 402500 (2012.5MHz)

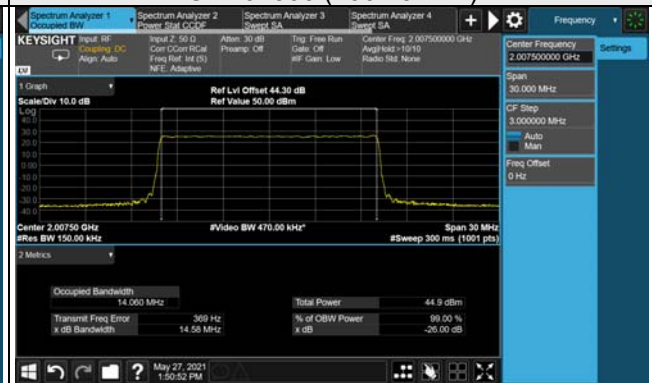


256QAM

Ch 400500 (2002.5MHz)



Ch 401500 (2007.5MHz)



Ch 402500 (2012.5MHz)



Ant. TX 1

Spectrum Plot of Worst Value

OCP 99 Bandwidth

QPSK

Ch 400500 (2002.5MHz)



Ch 401500 (2007.5MHz)



Ch 402500 (2012.5MHz)



16QAM

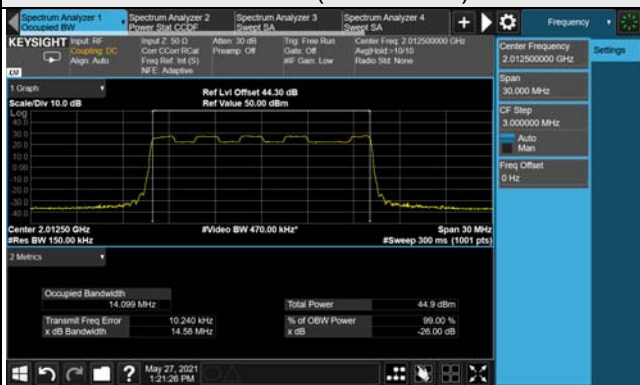
Ch 400500 (2002.5MHz)



Ch 401500 (2007.5MHz)



Ch 402500 (2012.5MHz)



64QAM

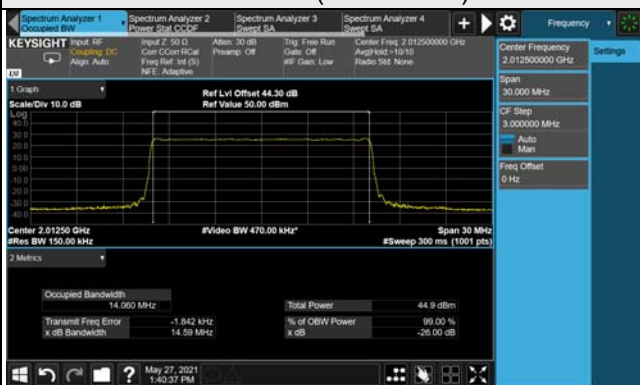
Ch 400500 (2002.5MHz)



Ch 401500 (2007.5MHz)



Ch 402500 (2012.5MHz)



256QAM

Ch 400500 (2002.5MHz)



Ch 401500 (2007.5MHz)



Ch 402500 (2012.5MHz)



Ant. TX 2

Spectrum Plot of Worst Value
OCP 99 Bandwidth
QPSK

Ch 400500 (2002.5MHz)



Ch 401500 (2007.5MHz)



Ch 402500 (2012.5MHz)



16QAM

Ch 400500 (2002.5MHz)



Ch 401500 (2007.5MHz)

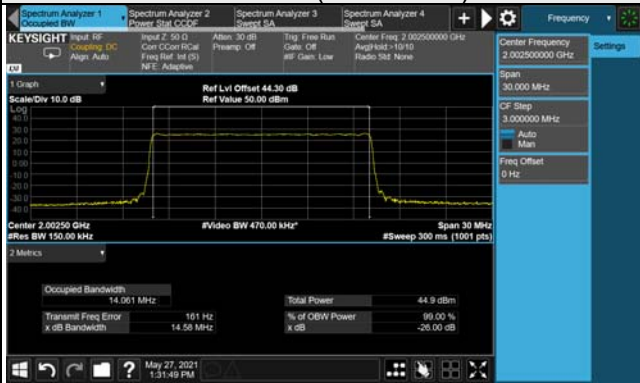


Ch 402500 (2012.5MHz)

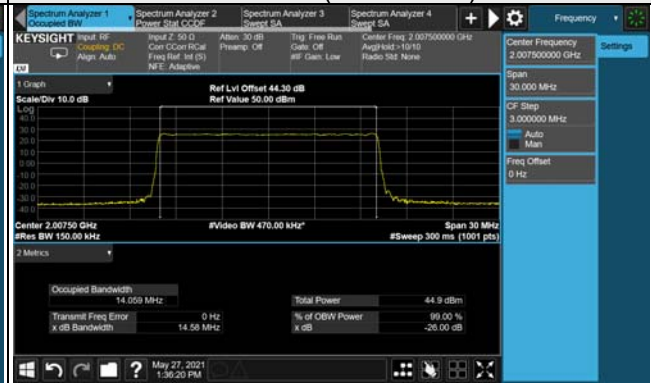


64QAM

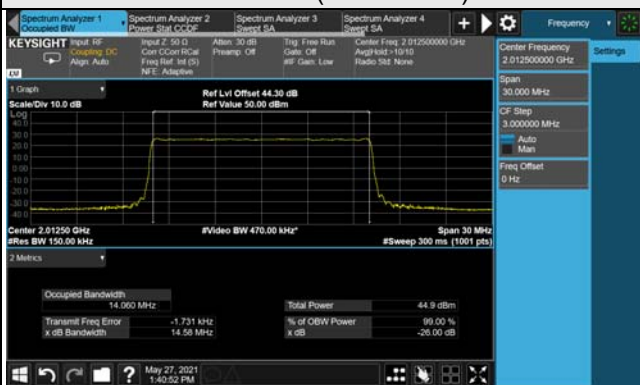
Ch 400500 (2002.5MHz)



Ch 401500 (2007.5MHz)

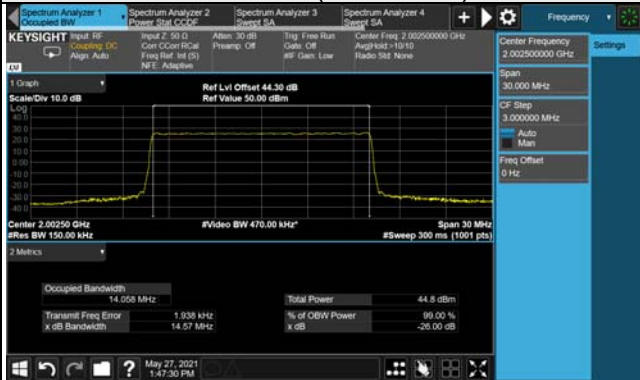


Ch 402500 (2012.5MHz)

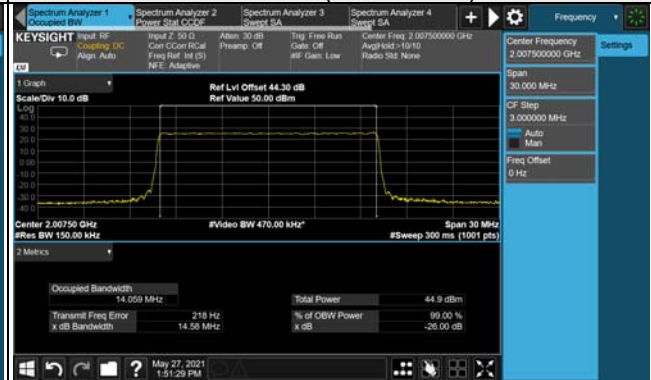


256QAM

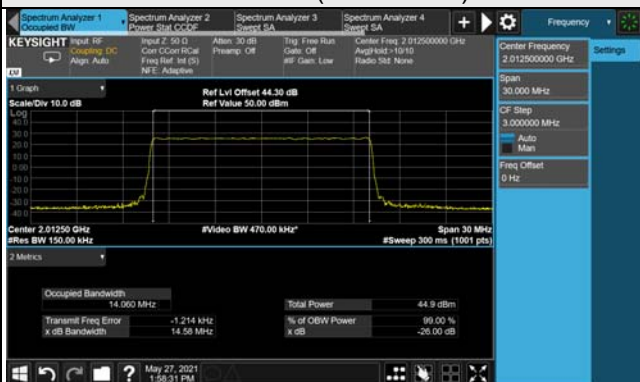
Ch 400500 (2002.5MHz)



Ch 401500 (2007.5MHz)



Ch 402500 (2012.5MHz)



Ant. TX 3

Spectrum Plot of Worst Value
OCP 99 Bandwidth
QPSK

Ch 400500 (2002.5MHz)



Ch 401500 (2007.5MHz)



Ch 402500 (2012.5MHz)



16QAM

Ch 400500 (2002.5MHz)



Ch 401500 (2007.5MHz)

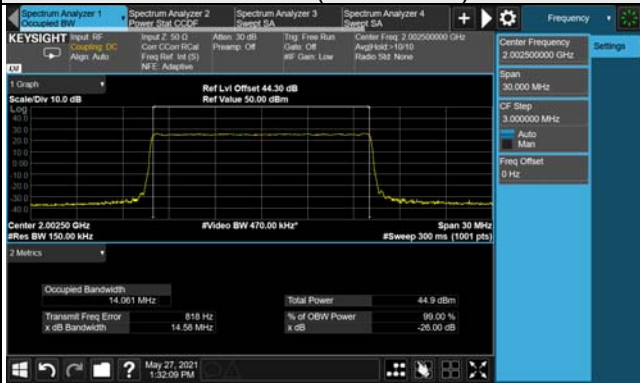


Ch 402500 (2012.5MHz)

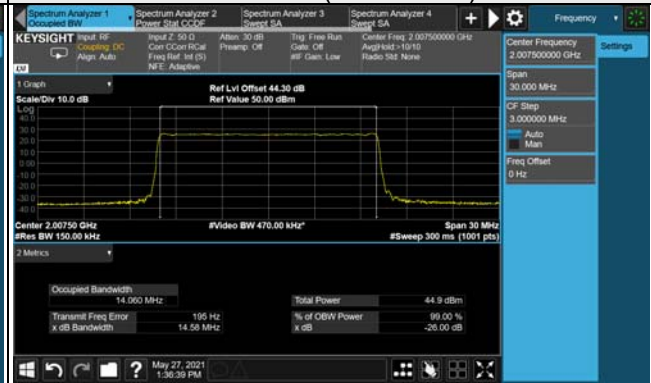


64QAM

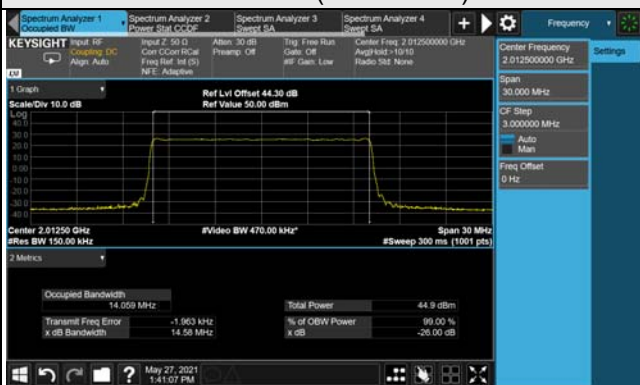
Ch 400500 (2002.5MHz)



Ch 401500 (2007.5MHz)

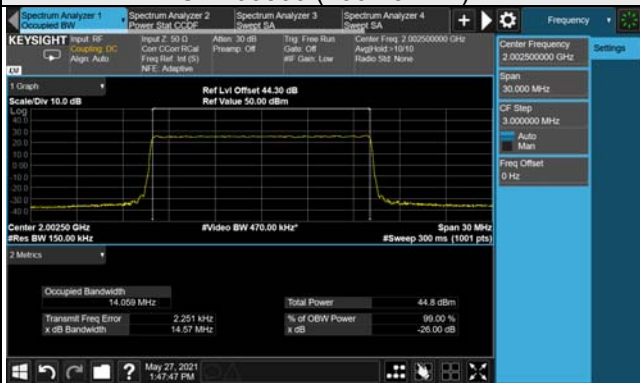


Ch 402500 (2012.5MHz)

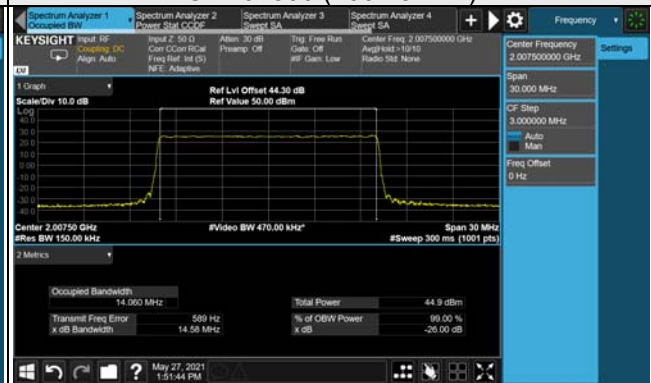


256QAM

Ch 400500 (2002.5MHz)



Ch 401500 (2007.5MHz)



Ch 402500 (2012.5MHz)



20MHz

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
401000	2005	18.94	18.94	18.90	18.89	18.94	18.94	18.90	18.89	18.94	18.94	18.90	18.89	18.94	18.94	18.90	18.89
401500	2007.5	18.94	18.94	18.90	18.89	18.94	18.94	18.89	18.89	18.94	18.94	18.90	18.89	18.94	18.94	18.90	18.89
402000	2010	18.94	18.94	18.90	18.89	18.94	18.94	18.90	18.89	18.94	18.94	18.90	18.89	18.94	18.94	18.90	18.89

Ant. TX 0

Spectrum Plot of Worst Value

OCP 99 Bandwidth

QPSK

Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)



Ch 402000 (2010.0MHz)

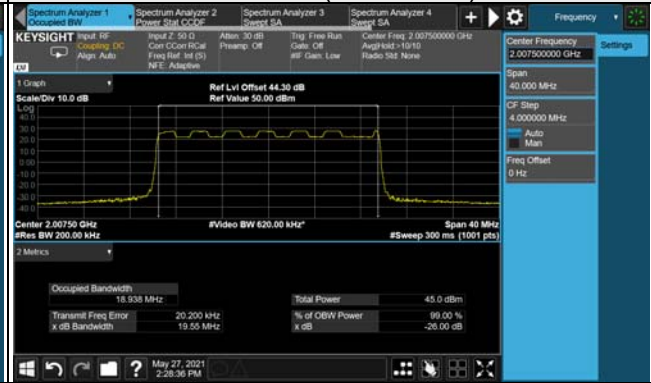


16QAM

Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)



Ch 402000 (2010.0MHz)

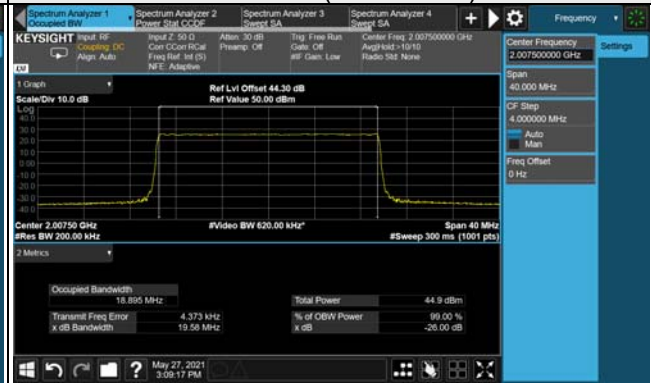


64QAM

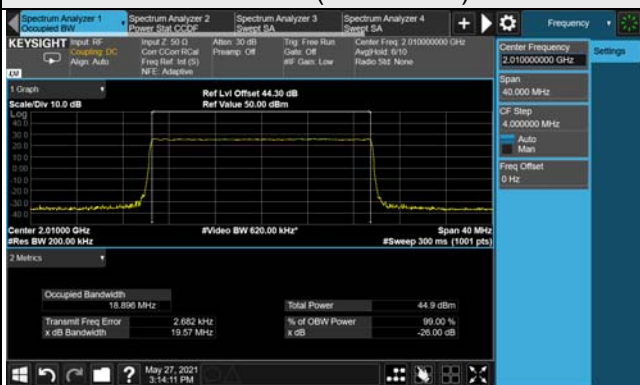
Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)

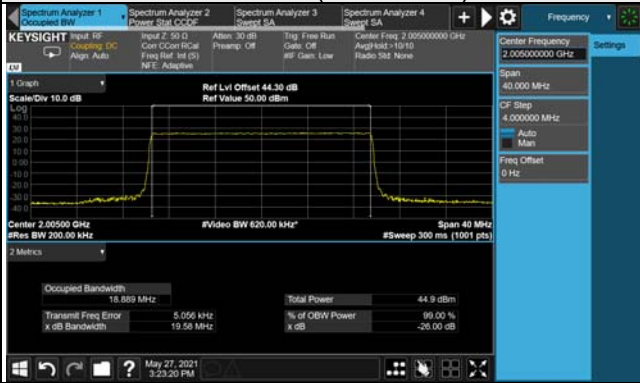


Ch 402000 (2010.0MHz)



256QAM

Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)



Ch 402000 (2010.0MHz)



Ant. TX 1

Spectrum Plot of Worst Value

OCP 99 Bandwidth

QPSK

Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)



Ch 402000 (2010.0MHz)

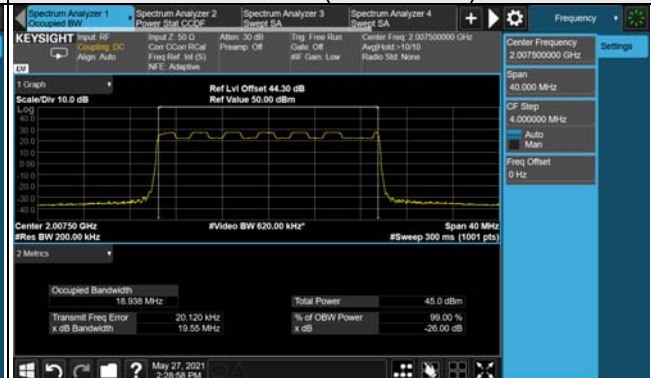


16QAM

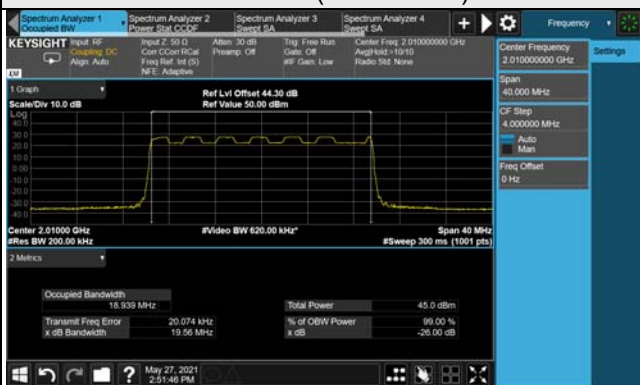
Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)



Ch 402000 (2010.0MHz)

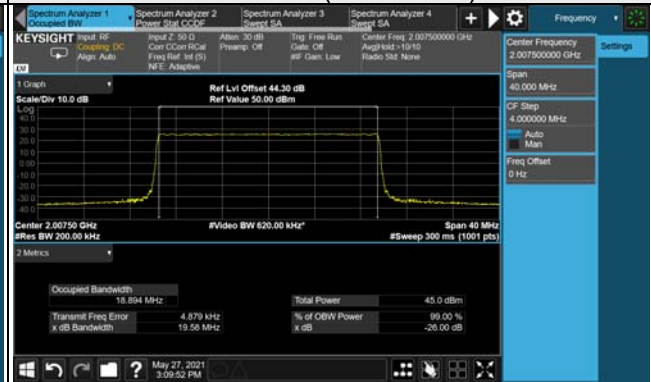


64QAM

Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)



Ch 402000 (2010.0MHz)

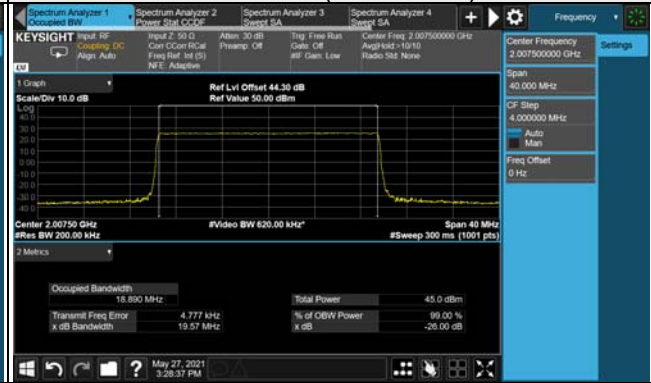


256QAM

Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)



Ch 402000 (2010.0MHz)



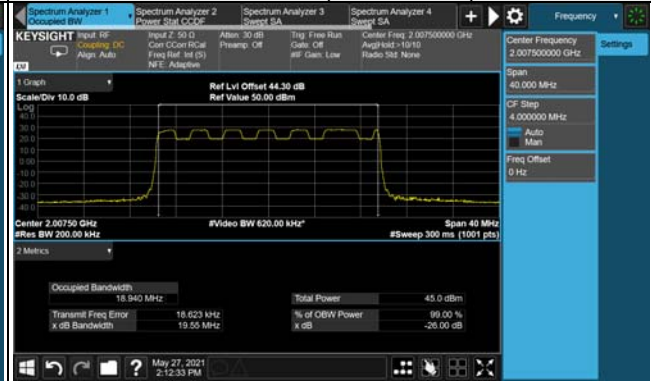
Ant. TX 2

Spectrum Plot of Worst Value
OCP 99 Bandwidth
QPSK

Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)



Ch 402000 (2010.0MHz)

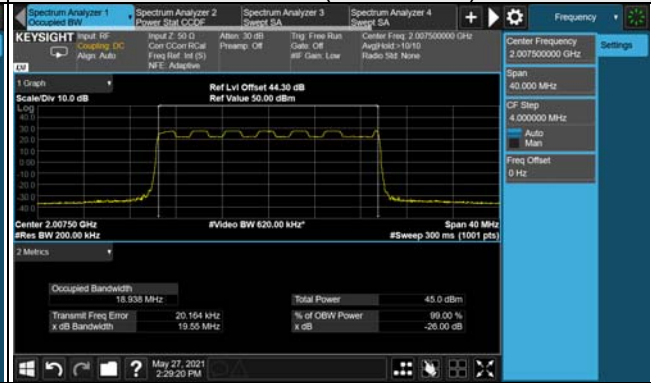


16QAM

Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)



Ch 402000 (2010.0MHz)

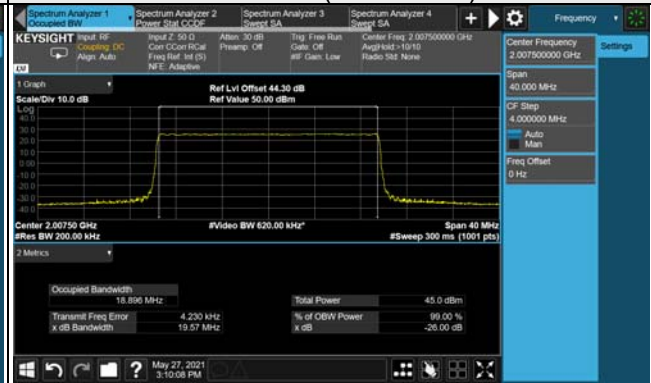


64QAM

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)



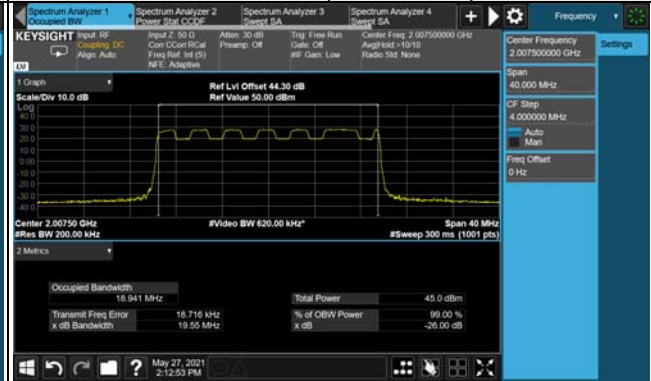
Ant. TX 3

Spectrum Plot of Worst Value
OCP 99 Bandwidth
QPSK

Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)



Ch 402000 (2010.0MHz)

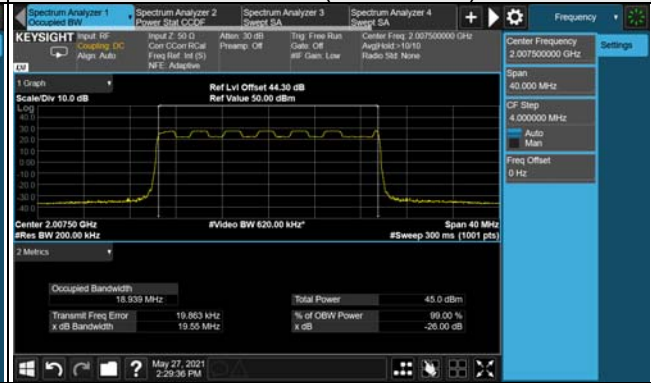


16QAM

Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)

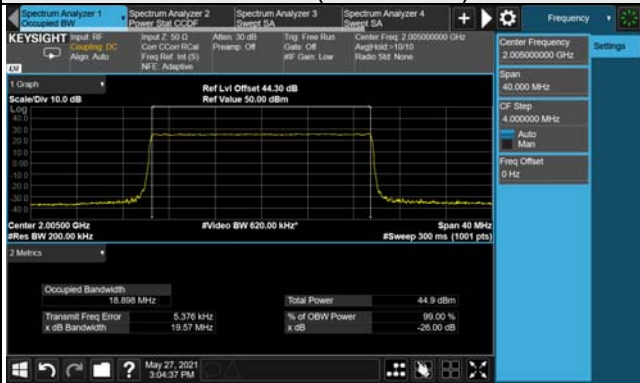


Ch 402000 (2010.0MHz)

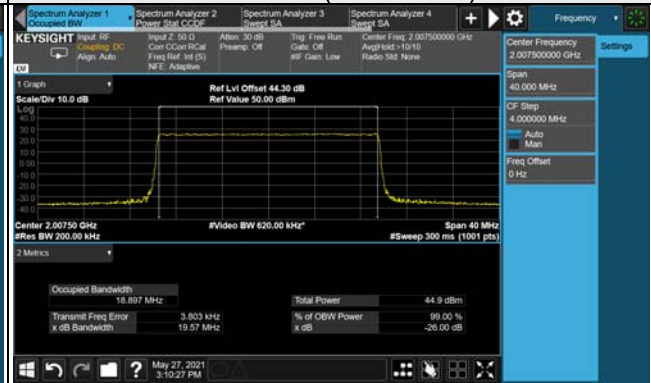


64QAM

Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)

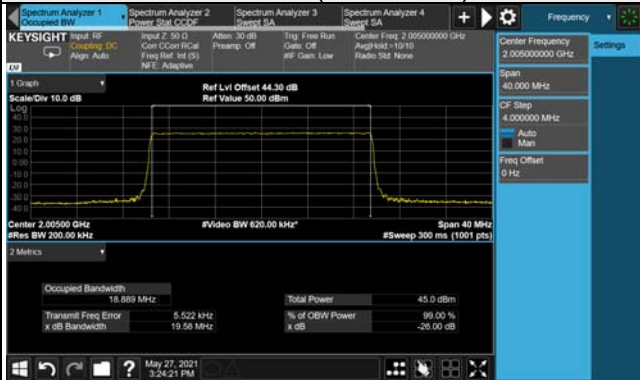


Ch 402000 (2010.0MHz)



256QAM

Ch 401000 (2005.0MHz)



Ch 401500 (2007.5MHz)



Ch 402000 (2010.0MHz)



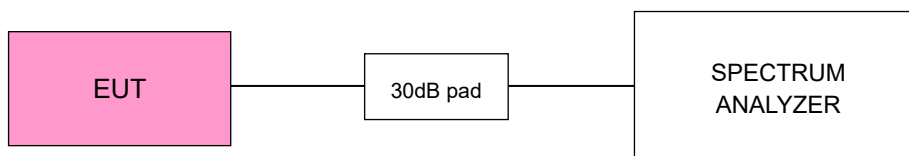
4.5 Channel Edge Measurement

4.5.1 Limits of Band Edge Measurement

According to FCC 27.53(h) for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

Note: This device can be implement MIMO function, so the limit of spurious emissions needs to be reduced by $10\log(\text{Numbers}_{\text{Ant}})$ according to FCC KDB 662911 D01 guidance.

4.5.2 Test Setup



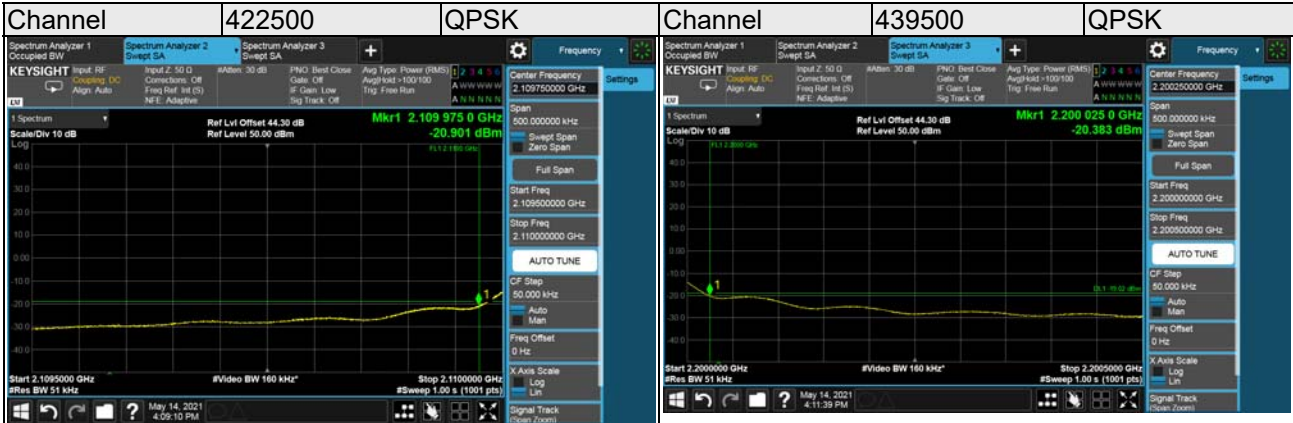
4.5.3 Test Procedures

- All measurements were done at low and high operational frequency range.
- The center frequency of spectrum is the band edge frequency and s RB of the spectrum is $>1\%$ EMISSION BANDWIDTH and VB of the spectrum is $\geq 3*RB$, Detector=RMS.
- Record the max trace plot into the test report.

4.5.4 Test Results

Band n66
Single Carrier

5MHz
Ant. TX 0



Ant. TX 1

