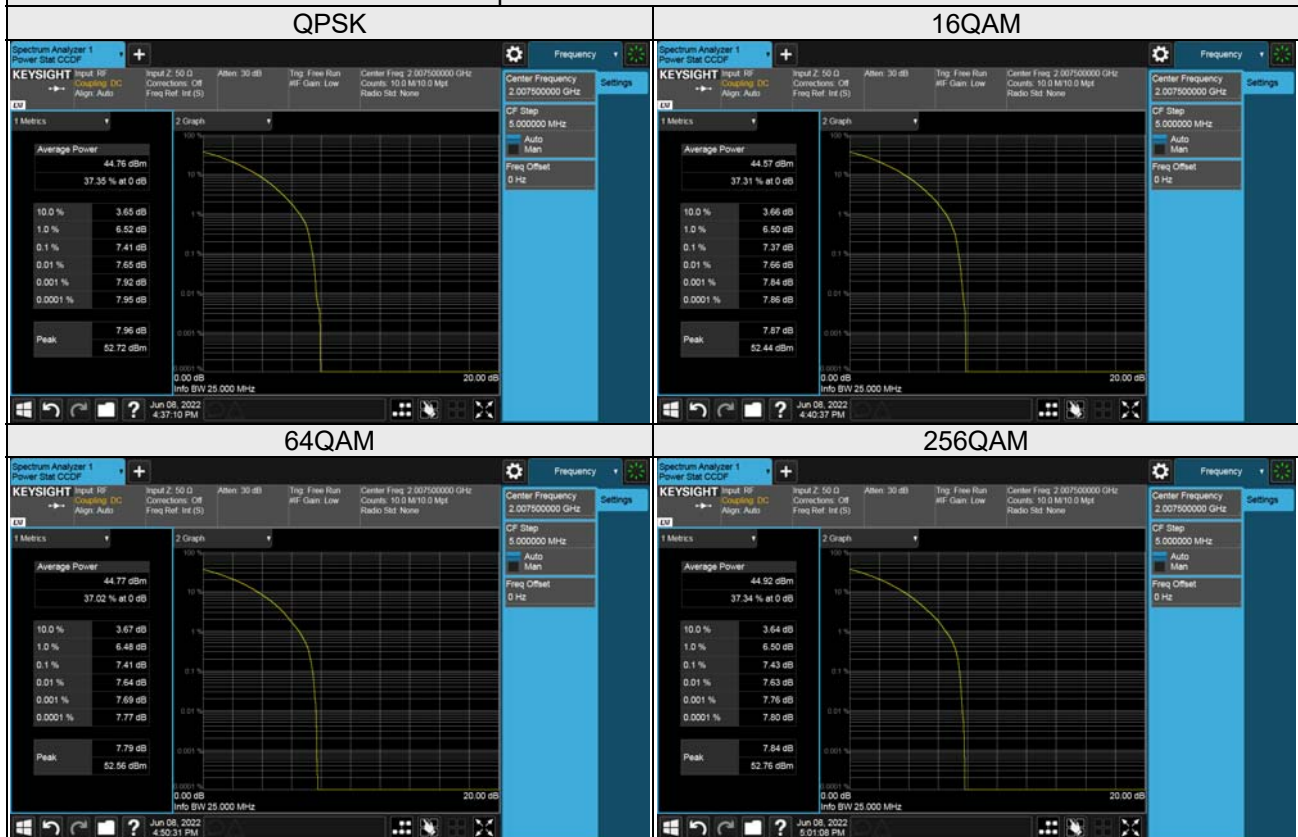


CA Contiguous

5MHz+20MHz

Channel Number	Freq. (MHz)	Peak-to-Average Power Ratio (dB)															
		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	7.40	7.37	7.40	7.37	7.40	7.36	7.37	7.41	7.41	7.37	7.36	7.43	7.40	7.34	7.41	7.41

Spectrum Plot of Worst Value

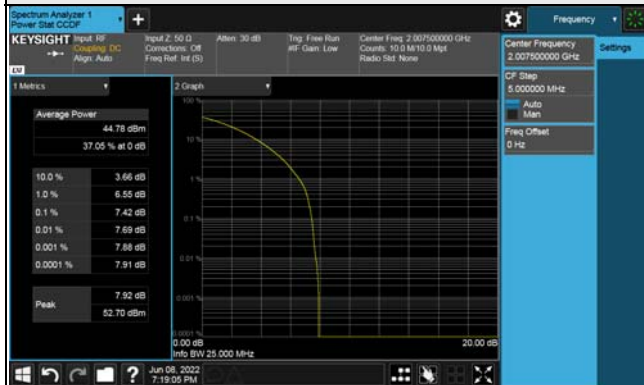


20MHz+5MHz

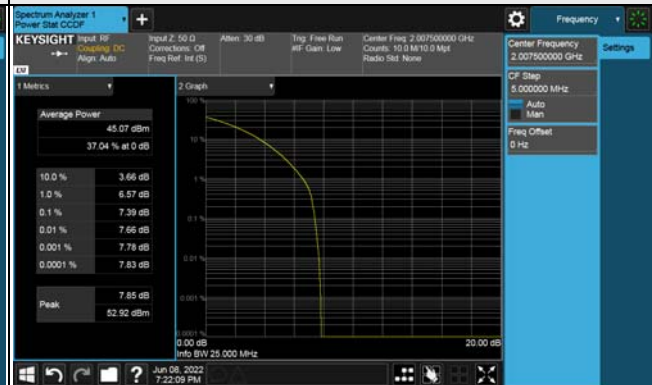
Channel Number	Freq. (MHz)	Peak-to-Average Power Ratio (dB)															
		Ant. TX0				Ant. TX1				Ant. TX2				Ant. TX3			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
401000+403500	2005.0+2017.5	7.42	7.39	7.40	7.39	7.42	7.38	7.41	7.39	7.38	7.37	7.44	7.37	7.41	7.37	7.42	7.37

Spectrum Plot of Worst Value

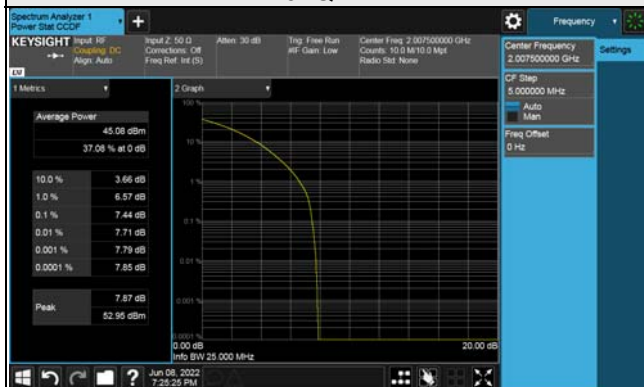
QPSK



16QAM



64QAM



256QAM

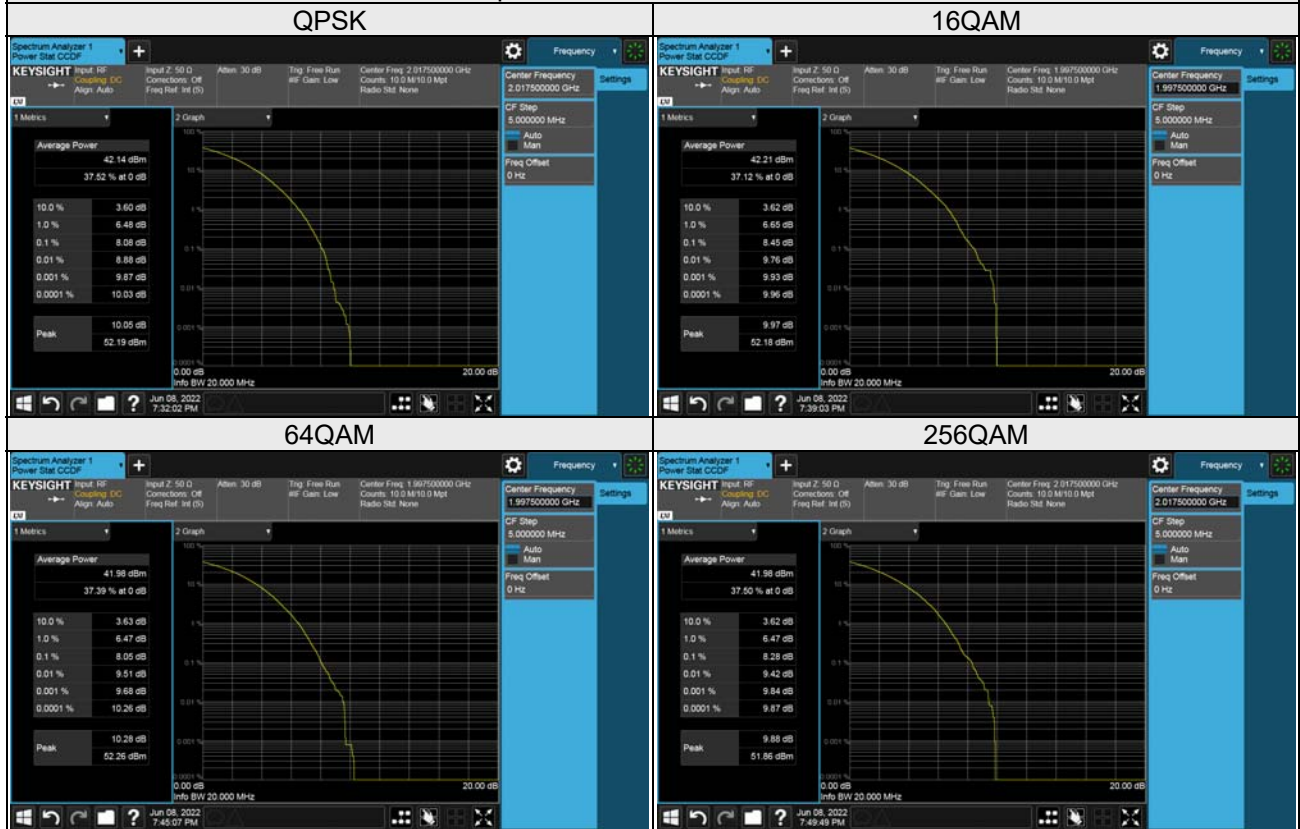


CA-Non-Contiguous

5MHz+5MHz

Channel Number	Freq. (MHz)	Peak-to-Average Power Ratio (dB)															
		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+2017.5	8.04	8.29	8.05	8.28	8.08	8.39	8.03	8.25	7.98	8.31	8.02	8.28	8.03	8.45	8.05	8.27

Spectrum Plot of Worst Value



4.7 Conducted Spurious Emissions

4.7.1 Limits of Conducted Spurious Emissions Measurement

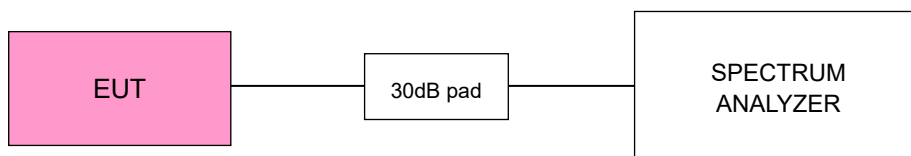
In the FCC 27.53(h)(1), On any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB.

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.

{4TX: The limit is adjusted to $-13\text{dBm} - 10 \cdot \log(4) = -19.01\text{dBm}$.}

4.7.2 Test Setup



4.7.3 Test Procedure

- All measurements were done at 3 channels: low, middle and high operational frequency range.
- When the spectrum scanned from 9kHz to 25GHz, it shall be connected to the 30dB pad attenuated the carried frequency.
- S.A. setting: RBW=1MHz, VBW=3MHz, Detector=RMS (Power average)

4.7.4 Test Results

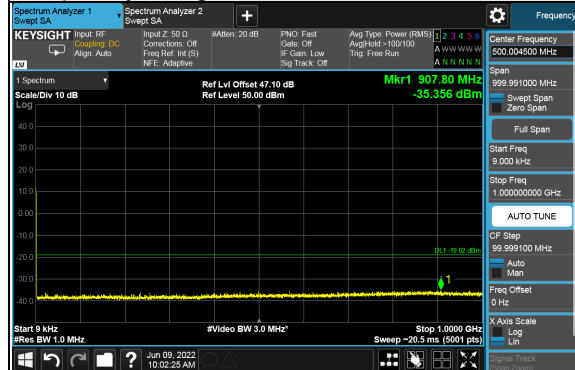
Band n66
Single Carrier

5MHz-Ant. TX 0

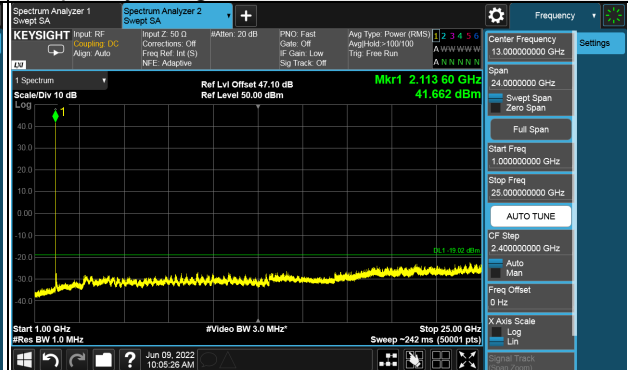
QPSK

Ch 422500 (2112.5MHz)

Frequency Range : 9kHz~1GHz

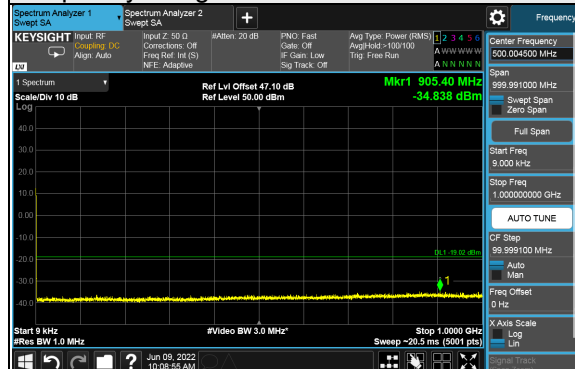


Frequency Range : 1GHz~25GHz

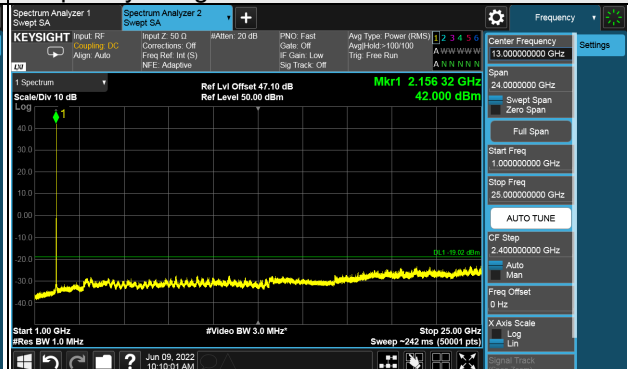


Ch 431000 (2155.0MHz)

Frequency Range : 9kHz~1GHz

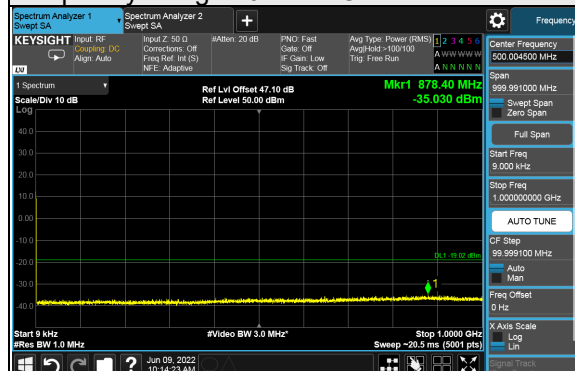


Frequency Range : 1GHz~25GHz

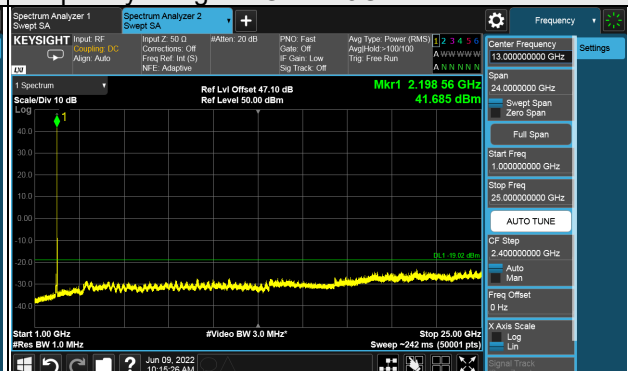


Ch 439500 (2197.5MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~25GHz



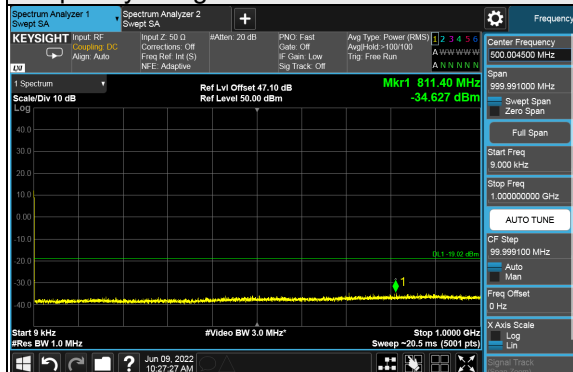
Note: The signal at 9 kHz is IF signal from spectrum analyzer.

5MHz-Ant. TX 1

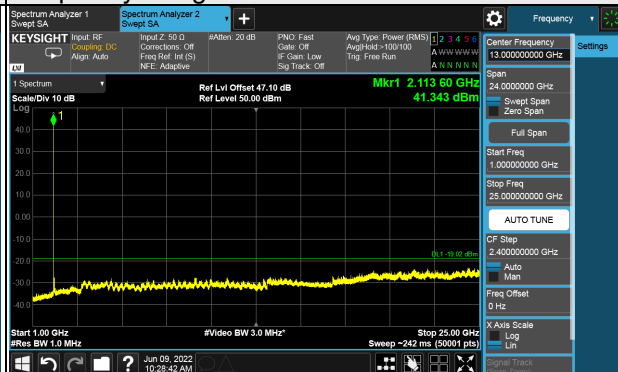
QPSK

Ch 422500 (2112.5MHz)

Frequency Range : 9kHz~1GHz

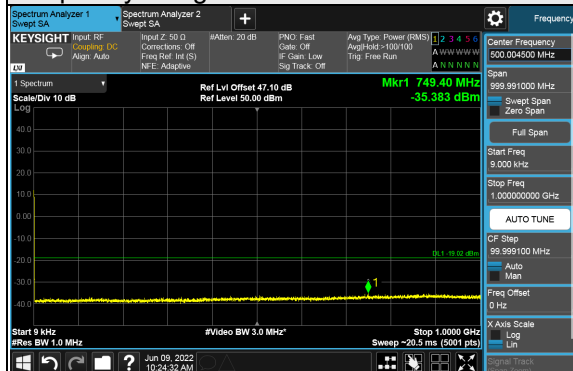


Frequency Range : 1GHz~25GHz

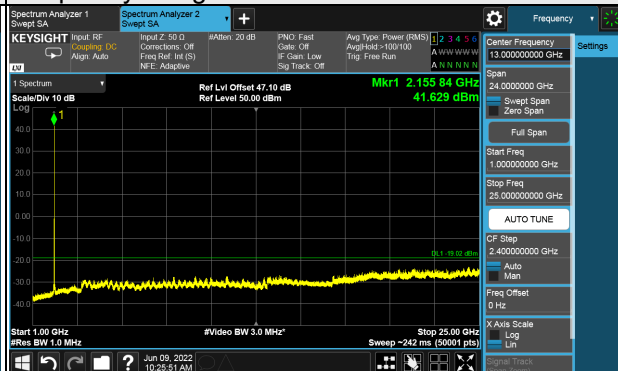


Ch 431000 (2155.0MHz)

Frequency Range : 9kHz~1GHz

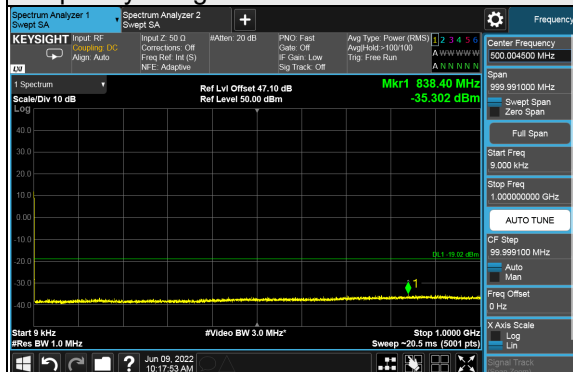


Frequency Range : 1GHz~25GHz

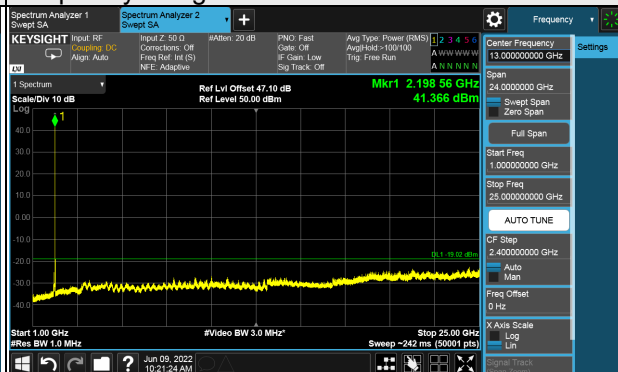


Ch 439500 (2197.5MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~25GHz



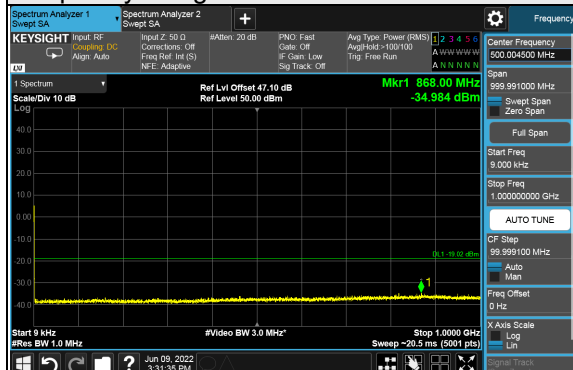
Note: The signal at 9 kHz is IF signal from spectrum analyzer.

5MHz-Ant. TX 2

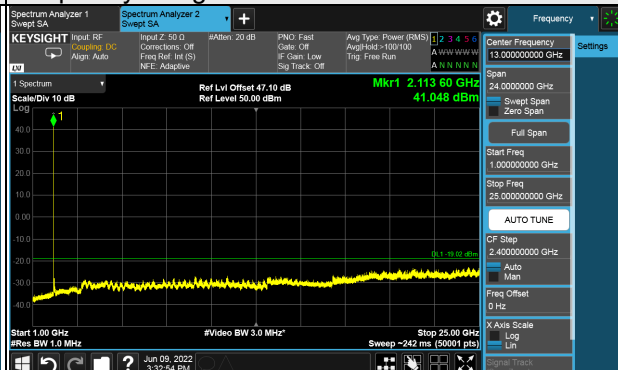
QPSK

Ch 422500 (2112.5MHz)

Frequency Range : 9kHz~1GHz

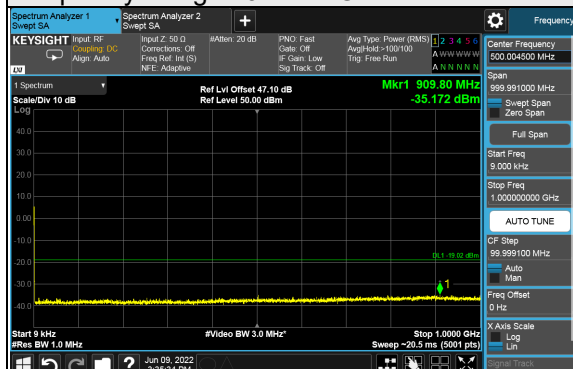


Frequency Range : 1GHz~25GHz

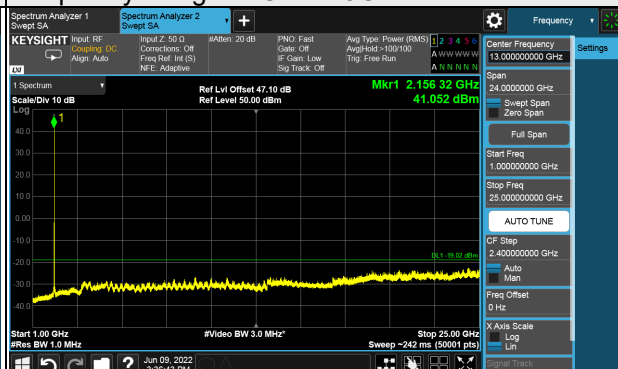


Ch 431000 (2155.0MHz)

Frequency Range : 9kHz~1GHz

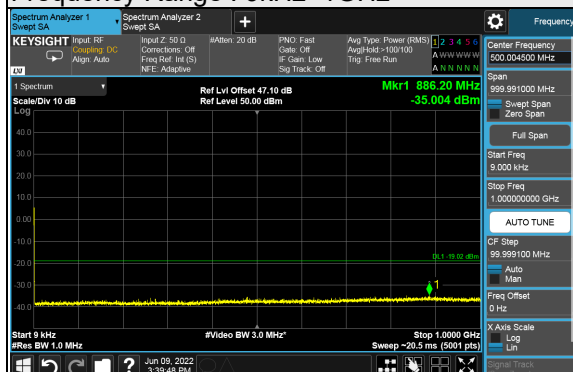


Frequency Range : 1GHz~25GHz

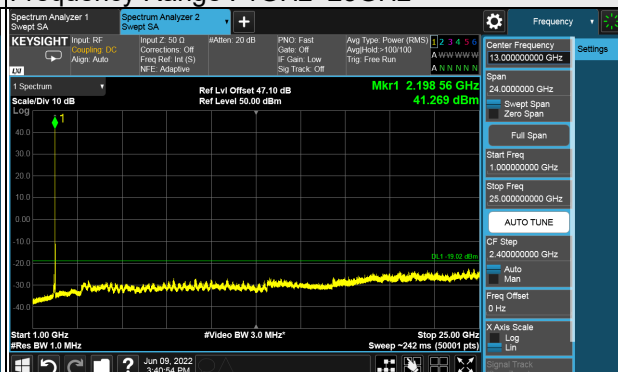


Ch 439500 (2197.5MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~25GHz



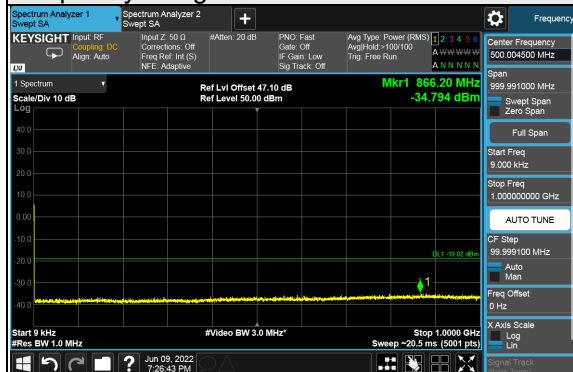
Note: The signal at 9 kHz is IF signal from spectrum analyzer.

5MHz-Ant. TX 3

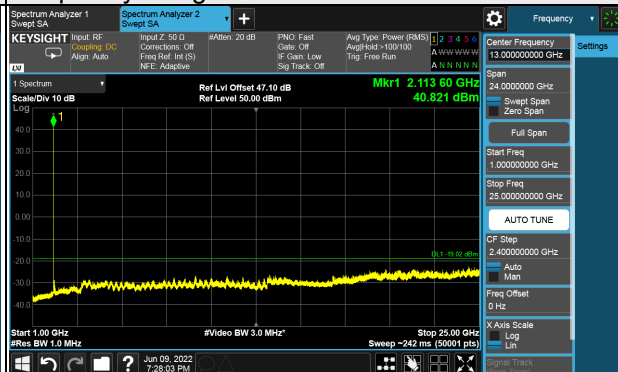
QPSK

Ch 422500 (2112.5MHz)

Frequency Range : 9kHz~1GHz

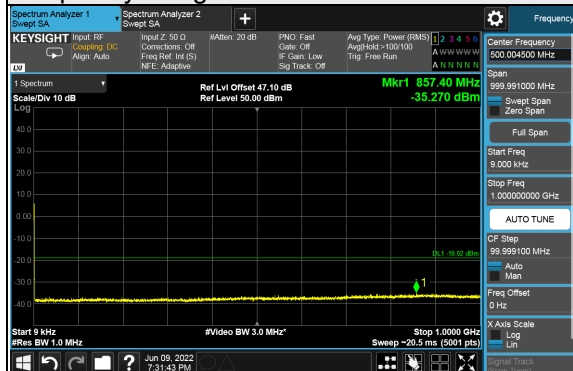


Frequency Range : 1GHz~25GHz

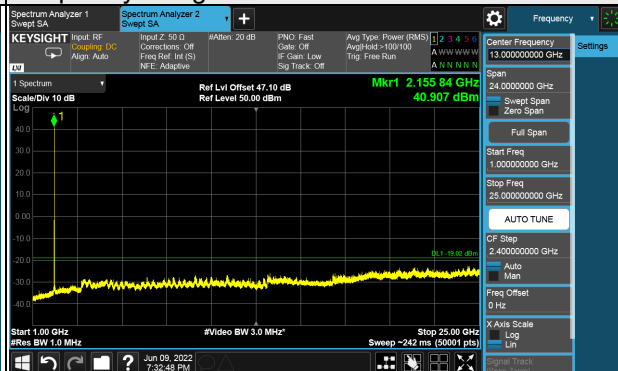


Ch 431000 (2155.0MHz)

Frequency Range : 9kHz~1GHz

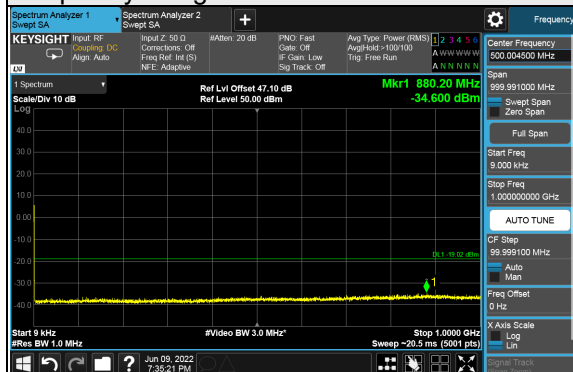


Frequency Range : 1GHz~25GHz

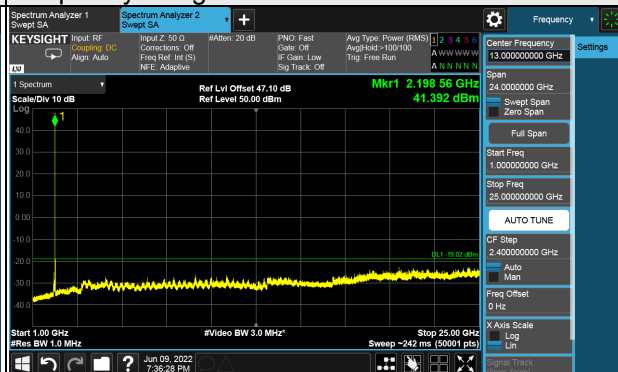


Ch 439500 (2197.5MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~25GHz



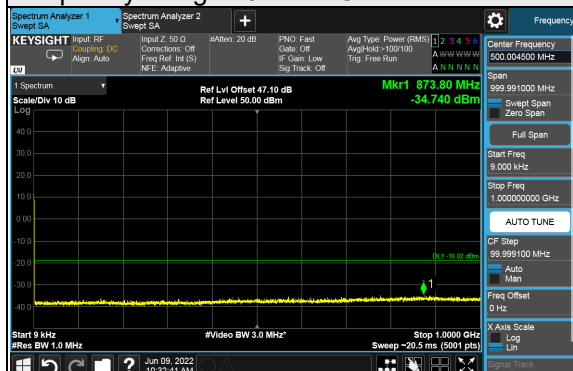
Note: The signal at 9 kHz is IF signal from spectrum analyzer.

10MHz-Ant. TX 0

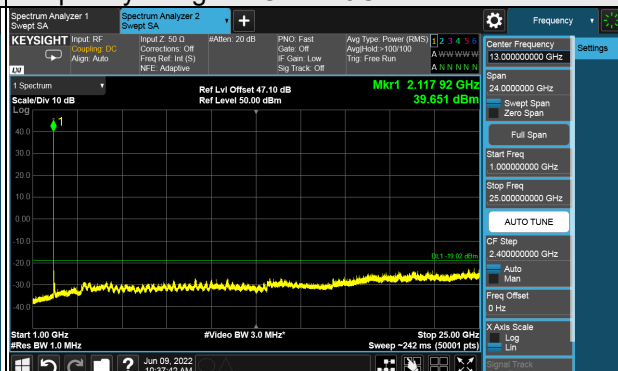
QPSK

Ch 423000 (2115.0MHz)

Frequency Range : 9kHz~1GHz

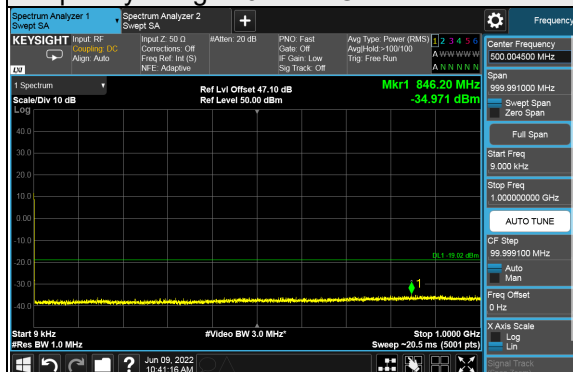


Frequency Range : 1GHz~25GHz

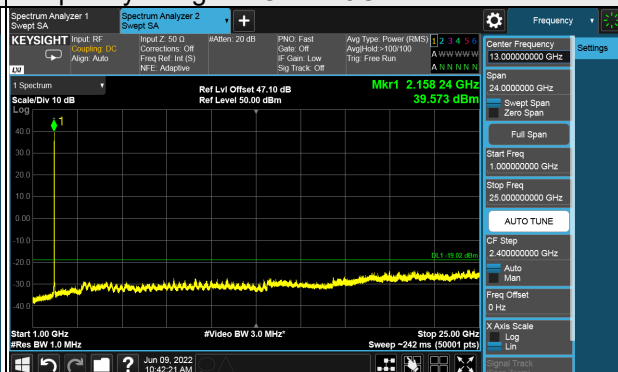


Ch 431000 (2155.0MHz)

Frequency Range : 9kHz~1GHz

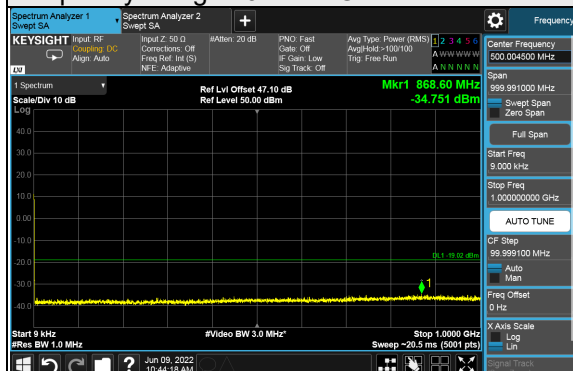


Frequency Range : 1GHz~25GHz

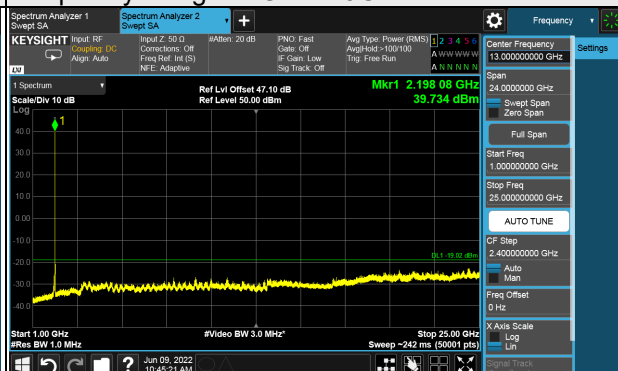


Ch 439000 (2195.0MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~25GHz



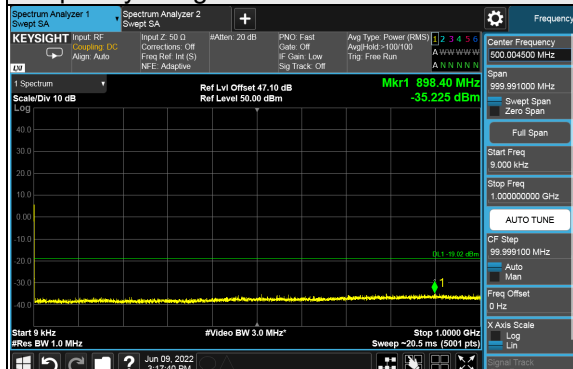
Note: The signal at 9 kHz is IF signal from spectrum analyzer.

10MHz-Ant. TX 1

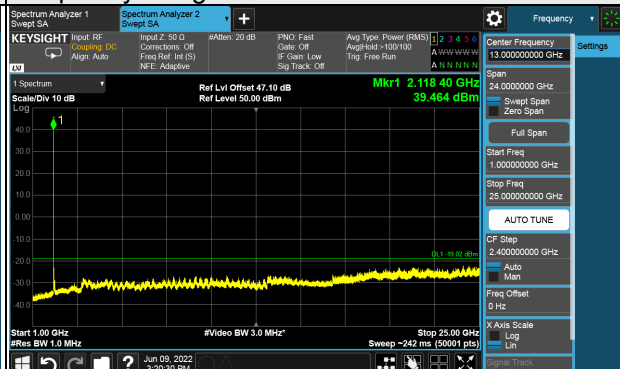
QPSK

Ch 423000 (2115.0MHz)

Frequency Range : 9kHz~1GHz

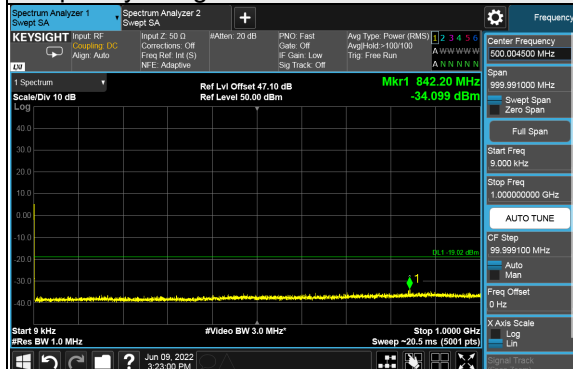


Frequency Range : 1GHz~25GHz

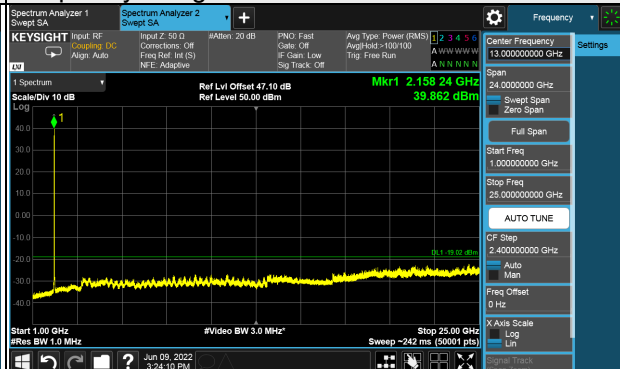


Ch 431000 (2155.0MHz)

Frequency Range : 9kHz~1GHz

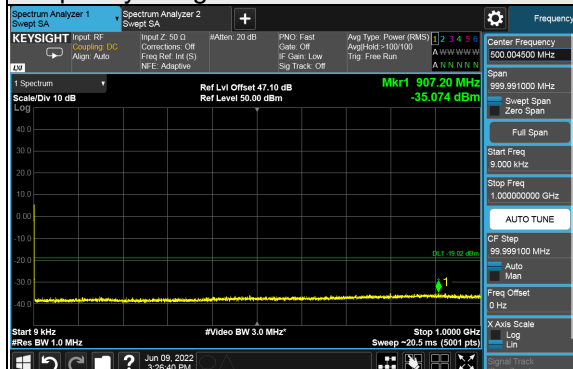


Frequency Range : 1GHz~25GHz

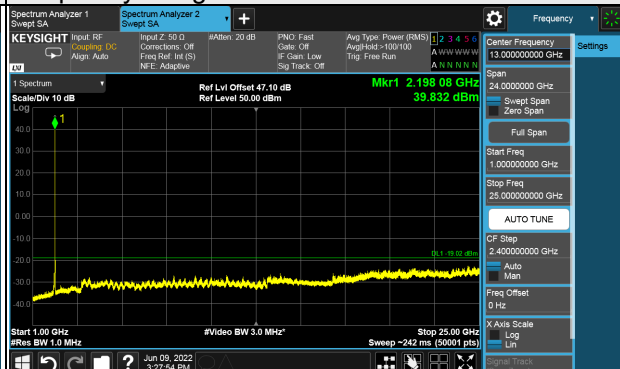


Ch 439000 (2195.0MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~25GHz



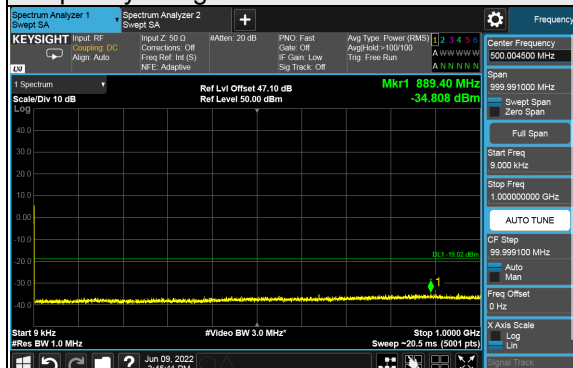
Note: The signal at 9 kHz is IF signal from spectrum analyzer.

10MHz-Ant. TX 2

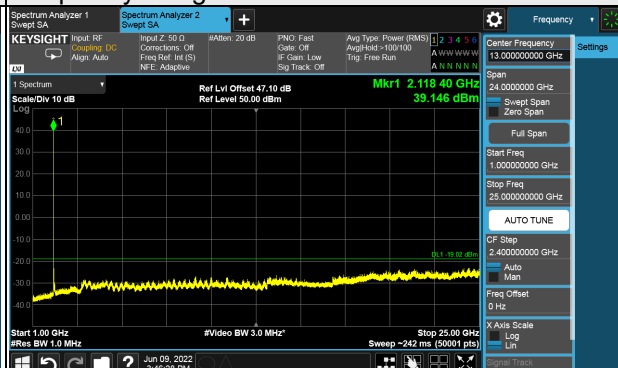
QPSK

Ch 423000 (2115.0MHz)

Frequency Range : 9kHz~1GHz

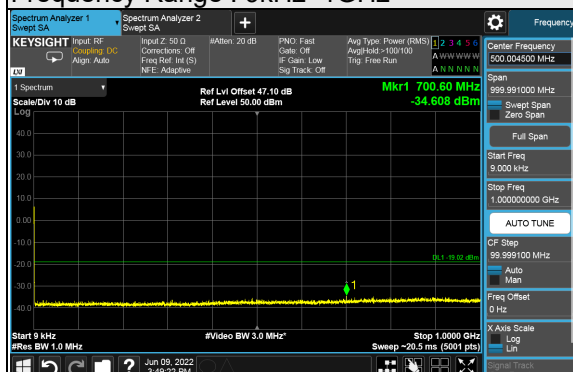


Frequency Range : 1GHz~25GHz

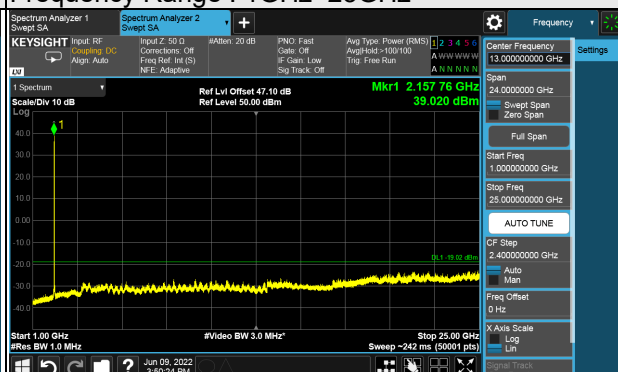


Ch 431000 (2155.0MHz)

Frequency Range : 9kHz~1GHz

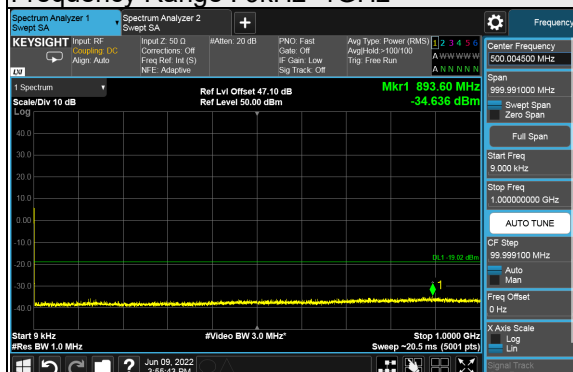


Frequency Range : 1GHz~25GHz

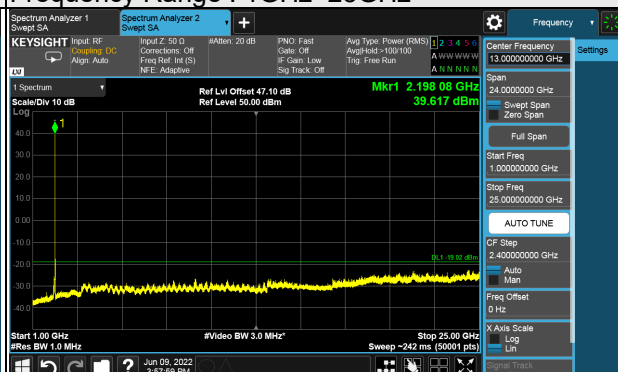


Ch 439000 (2195.0MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~25GHz



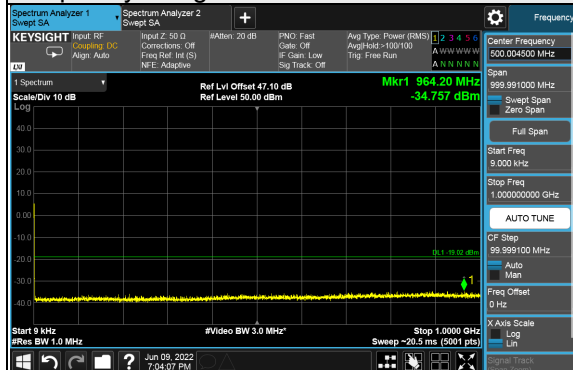
Note: The signal at 9 kHz is IF signal from spectrum analyzer.

10MHz-Ant. TX 3

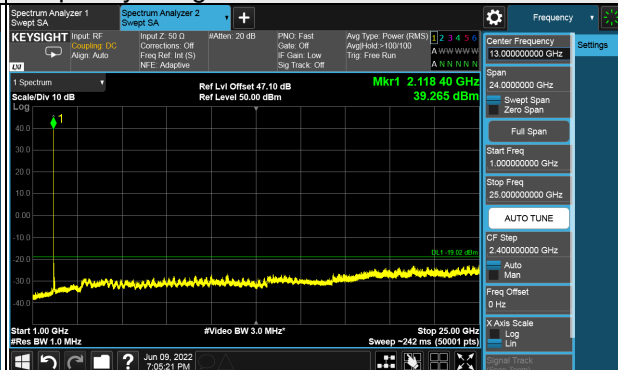
QPSK

Ch 423000 (2115.0MHz)

Frequency Range : 9kHz~1GHz

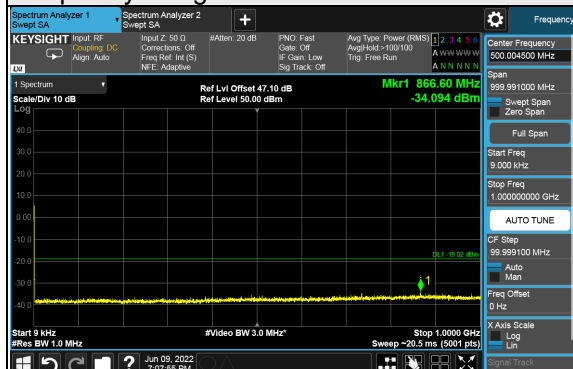


Frequency Range : 1GHz~25GHz

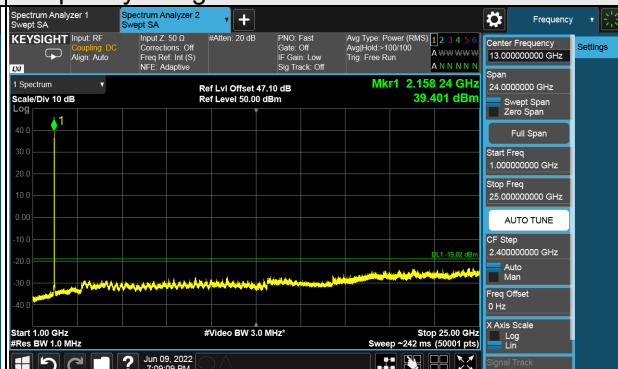


Ch 431000 (2155.0MHz)

Frequency Range : 9kHz~1GHz

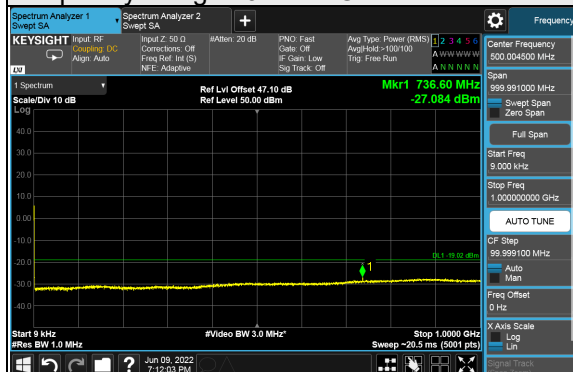


Frequency Range : 1GHz~25GHz

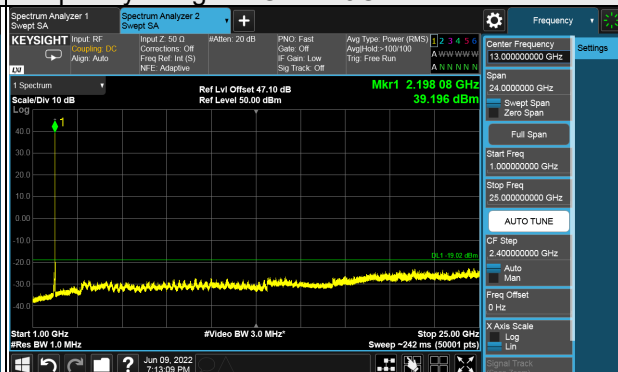


Ch 439000 (2195.0MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~25GHz



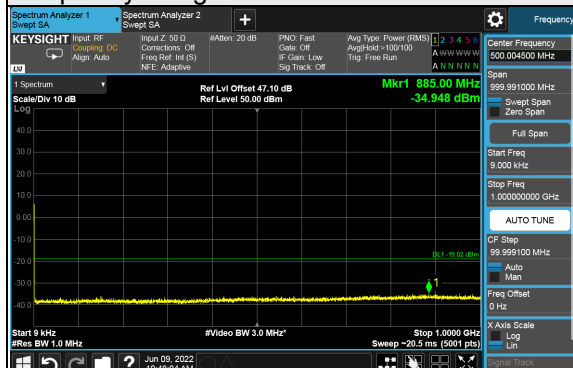
Note: The signal at 9 kHz is IF signal from spectrum analyzer.

15MHz-Ant. TX 0

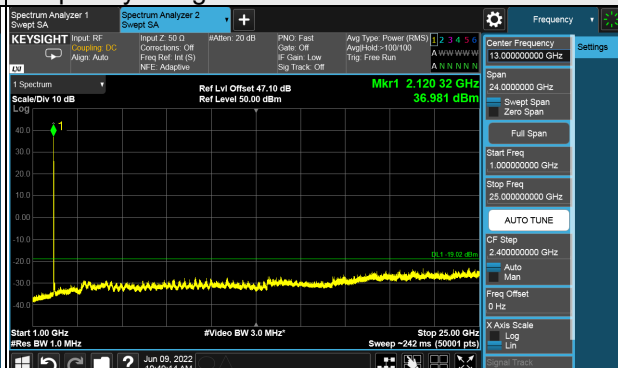
QPSK

Ch 423500 (2117.5MHz)

Frequency Range : 9kHz~1GHz

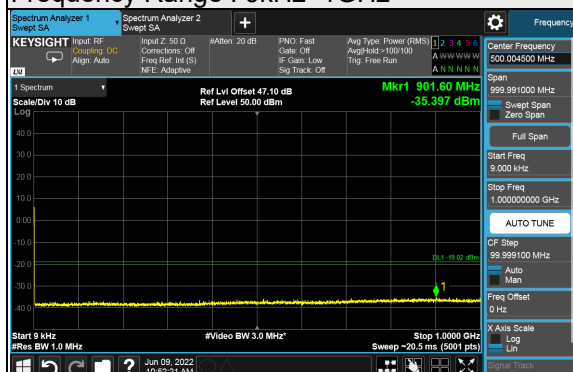


Frequency Range : 1GHz~25GHz

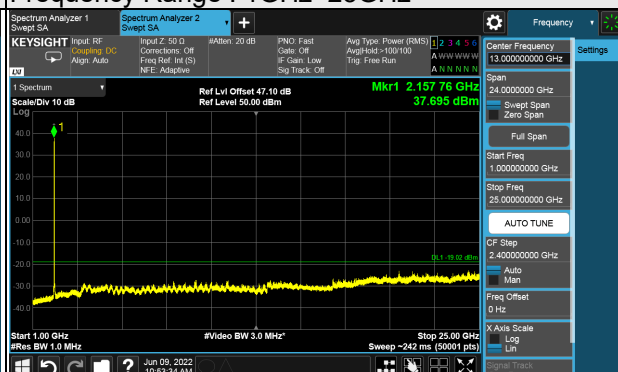


Ch 431000 (2155.0MHz)

Frequency Range : 9kHz~1GHz

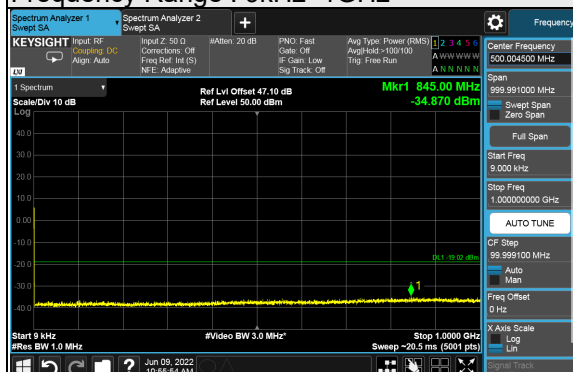


Frequency Range : 1GHz~25GHz

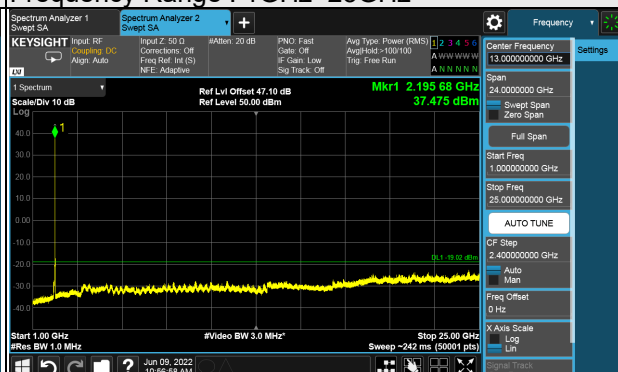


Ch 438500 (2192.5MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~25GHz



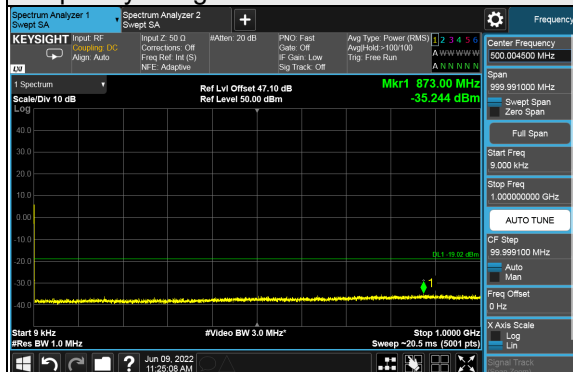
Note: The signal at 9 kHz is IF signal from spectrum analyzer.

15MHz-Ant. TX 1

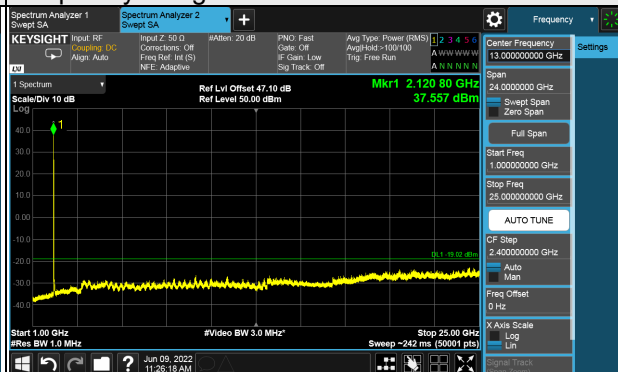
QPSK

Ch 423500 (2117.5MHz)

Frequency Range : 9kHz~1GHz

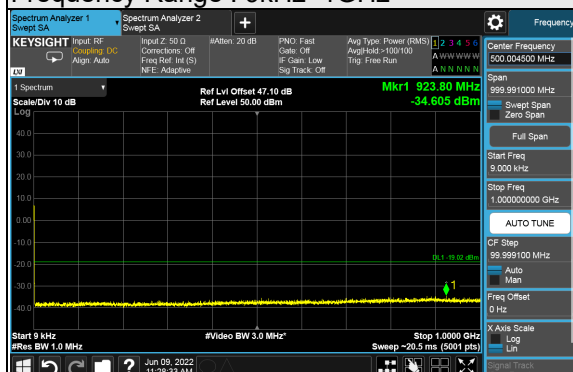


Frequency Range : 1GHz~25GHz

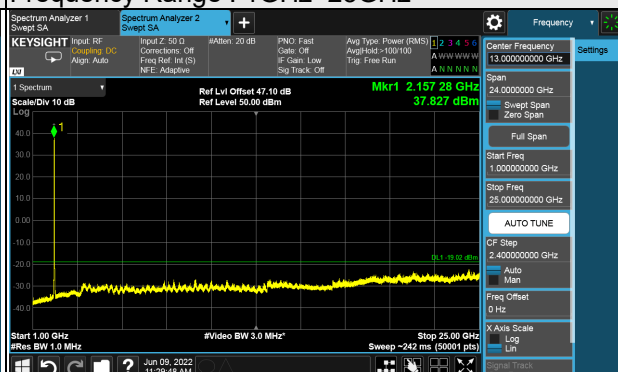


Ch 431000 (2155.0MHz)

Frequency Range : 9kHz~1GHz

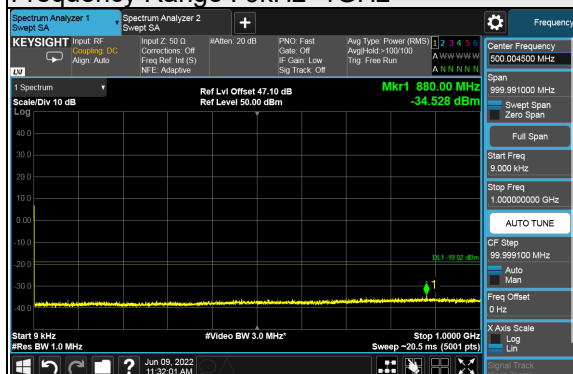


Frequency Range : 1GHz~25GHz

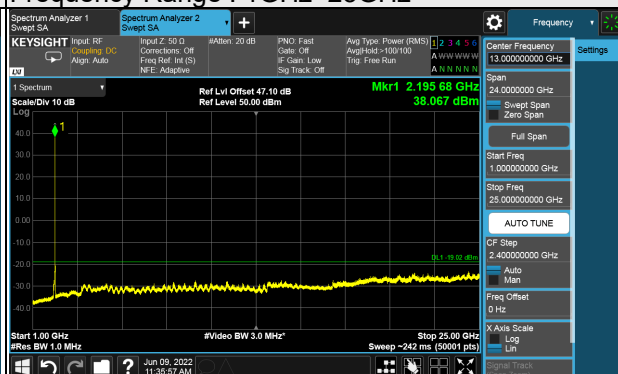


Ch 438500 (2192.5MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~25GHz



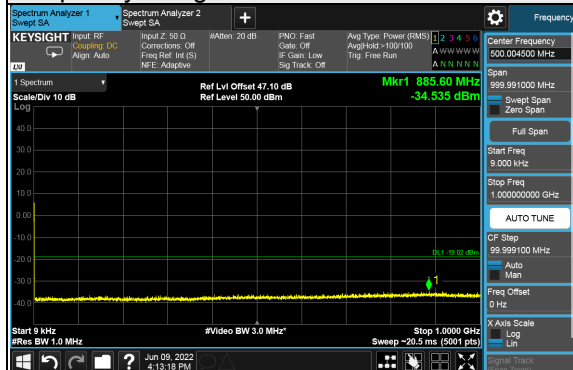
Note: The signal at 9 kHz is IF signal from spectrum analyzer.

15MHz-Ant. TX 2

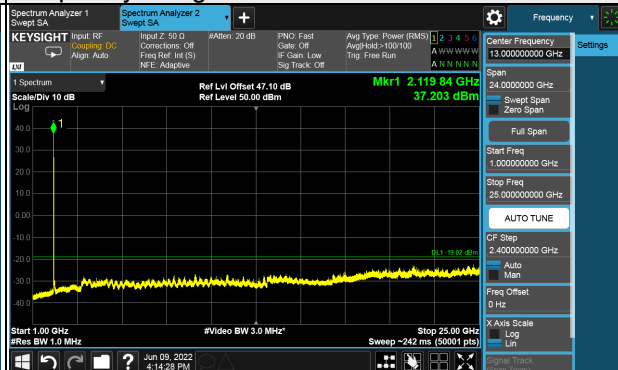
QPSK

Ch 423500 (2117.5MHz)

Frequency Range : 9kHz~1GHz

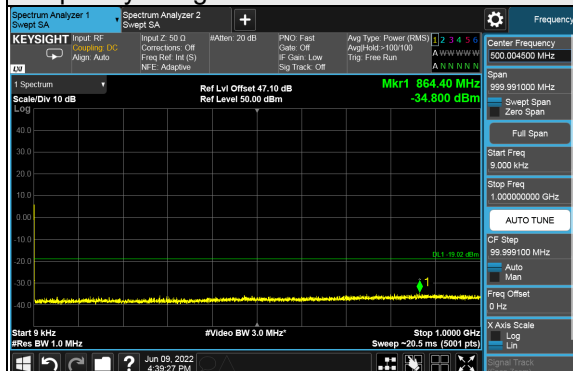


Frequency Range : 1GHz~25GHz

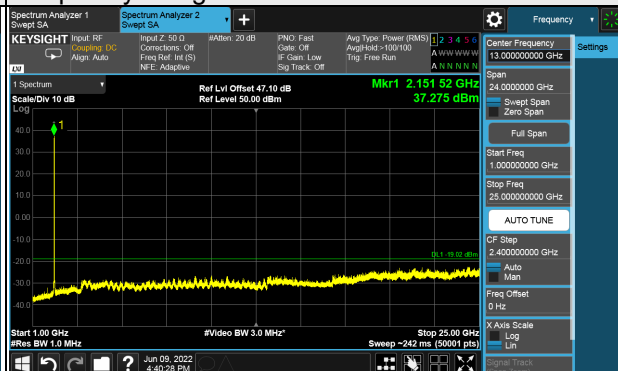


Ch 431000 (2155.0MHz)

Frequency Range : 9kHz~1GHz

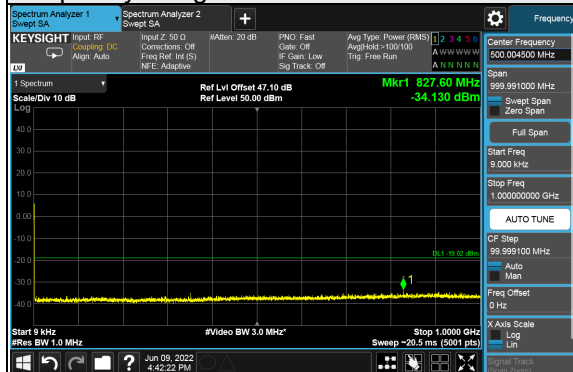


Frequency Range : 1GHz~25GHz

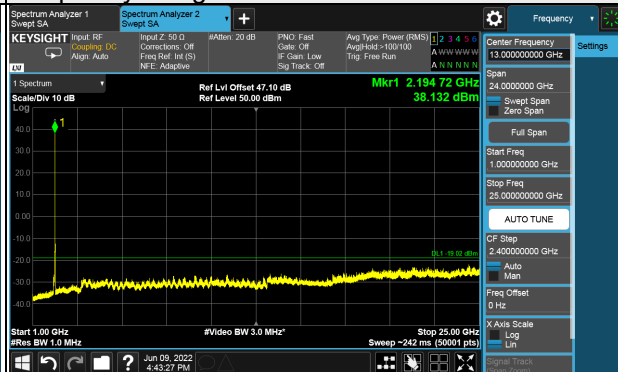


Ch 438500 (2192.5MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~25GHz



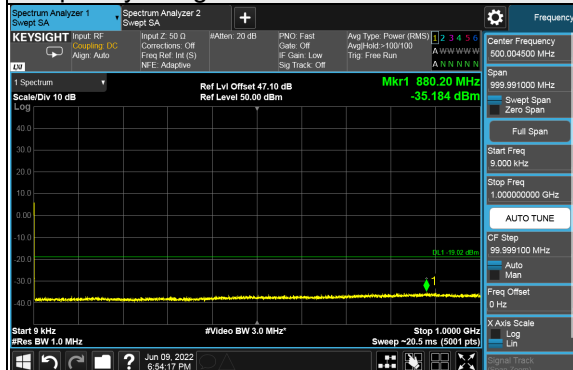
Note: The signal at 9 kHz is IF signal from spectrum analyzer.

15MHz-Ant. TX 3

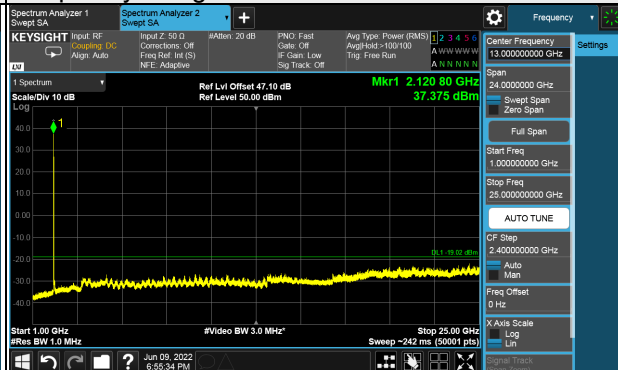
QPSK

Ch 423500 (2117.5MHz)

Frequency Range : 9kHz~1GHz

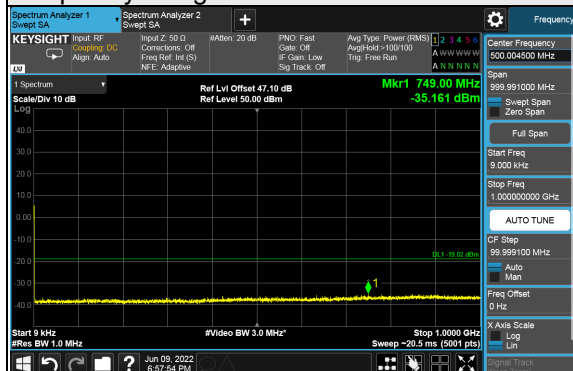


Frequency Range : 1GHz~25GHz

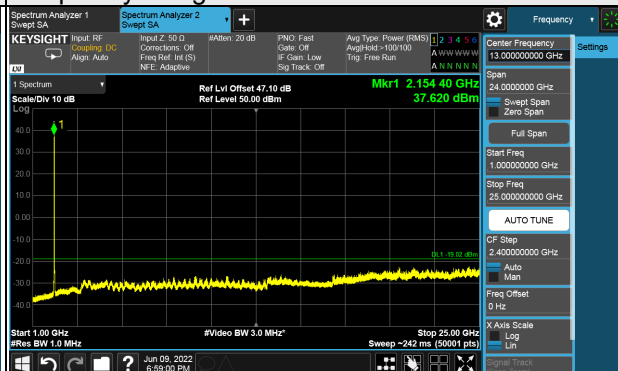


Ch 431000 (2155.0MHz)

Frequency Range : 9kHz~1GHz

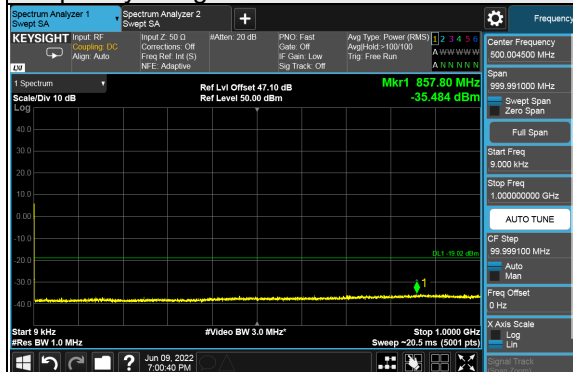


Frequency Range : 1GHz~25GHz

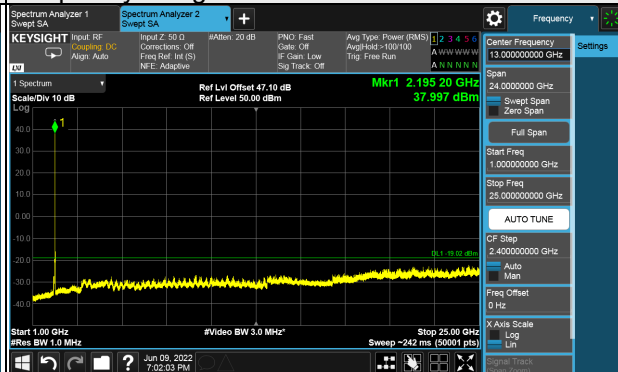


Ch 438500 (2192.5MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~25GHz



Note: The signal at 9 kHz is IF signal from spectrum analyzer.