



Figure 284: 16QAM 40MHz B.W.; 2516.0MHz, 15kHz



Figure 285: 16QAM 40MHz B.W.; 2670.0MHz, 15kHz



Figure 286: 16QAM 40MHz B.W.; 2516.0MHz, 30kHz



Figure 287: 16QAM 40MHz B.W.; 2670.0MHz, 30kHz



Figure 288: 16QAM 40MHz B.W.; 2516.0MHz, 60kHz



Figure 289: 16QAM 40MHz B.W.; 2670.0MHz, 60kHz



Figure 290: 16QAM 60MHz B.W.; 2526.0MHz, 30kHz



Figure 291: 16QAM 60MHz B.W.; 2660.0MHz, 30kHz



Figure 292: 16QAM 60MHz B.W.; 2526.0MHz, 60kHz



Figure 293: 16QAM 60MHz B.W.; 2660.0MHz, 60kHz

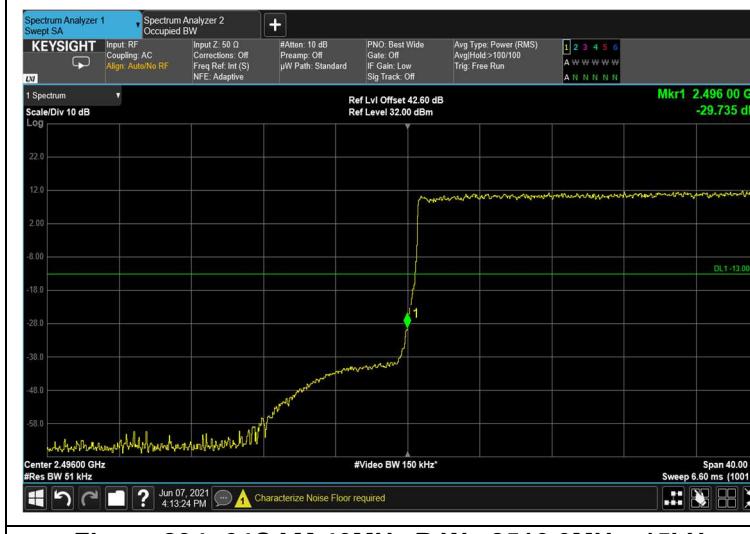


Figure 294: 64QAM 40MHz B.W.; 2516.0MHz, 15kHz

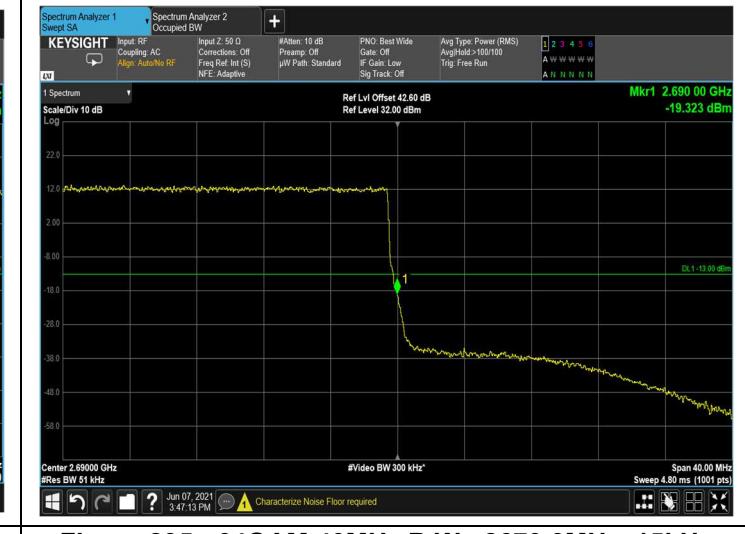


Figure 295: 64QAM 40MHz B.W.; 2670.0MHz, 15kHz



Figure 296: 64QAM 40MHz B.W.; 2516.0MHz, 30kHz

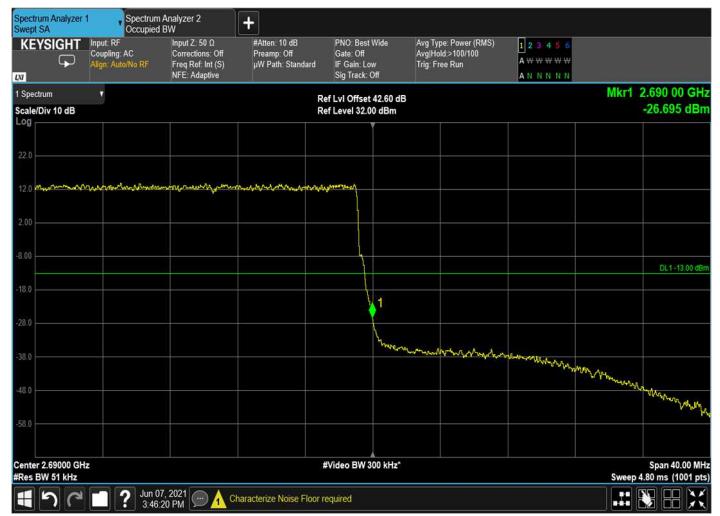


Figure 297: 64QAM 40MHz B.W.; 2670.0MHz, 30kHz

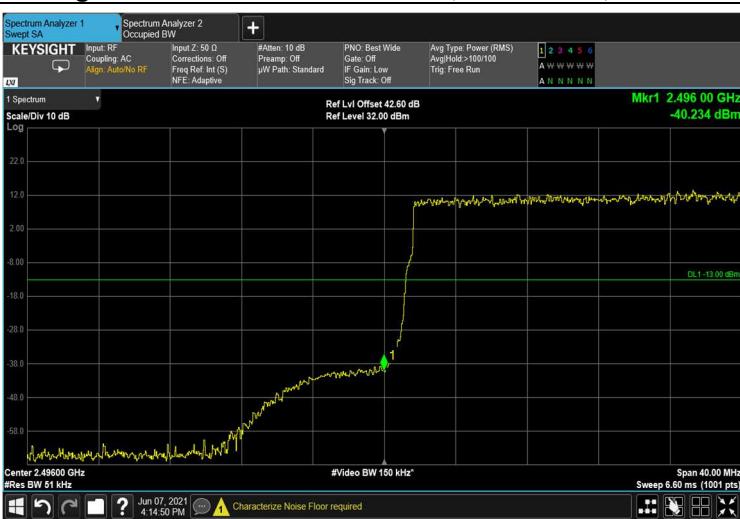


Figure 298: 64QAM 40MHz B.W.; 2516.0MHz, 60kHz



Figure 299: 64QAM 40MHz B.W.; 2670.0MHz, 60kHz



Figure 300: 64QAM 60MHz B.W.; 2526.0MHz, 30kHz



Figure 301: 64QAM 60MHz B.W.; 2660.0MHz, 30kHz



Figure 302: 64QAM 60MHz B.W.; 2526.0MHz, 60kHz

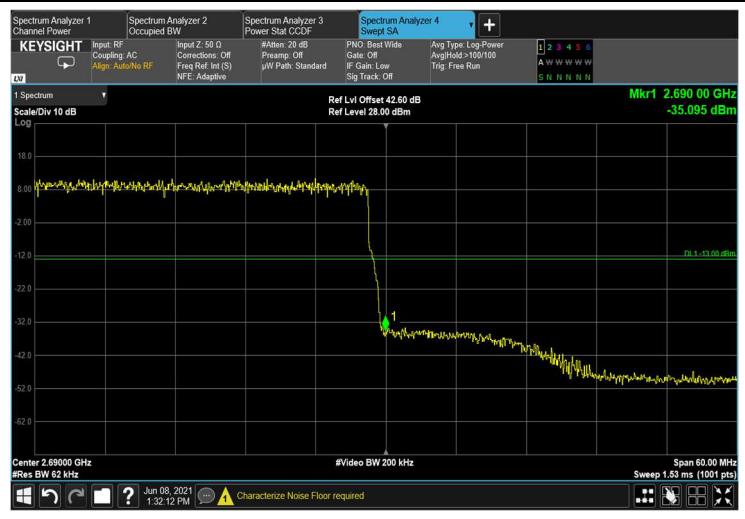


Figure 303: 64QAM 60MHz B.W.; 2660.0MHz, 60kHz

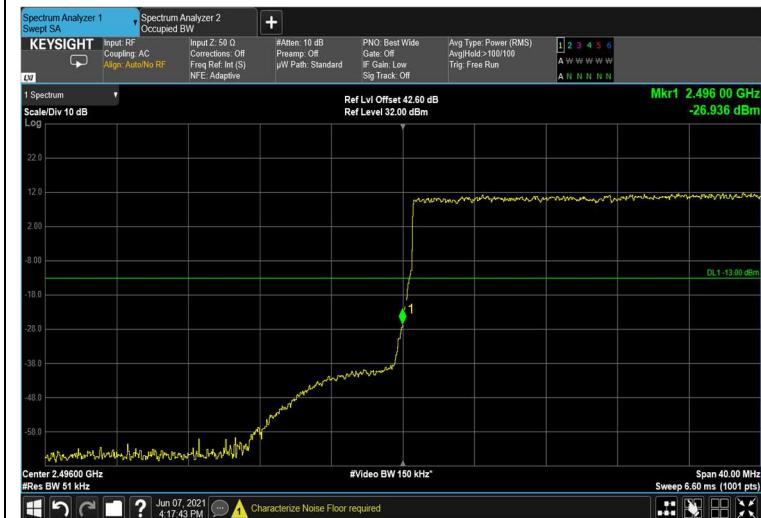


Figure 304: 256QAM 40MHz B.W.; 2516.0MHz, 15kHz

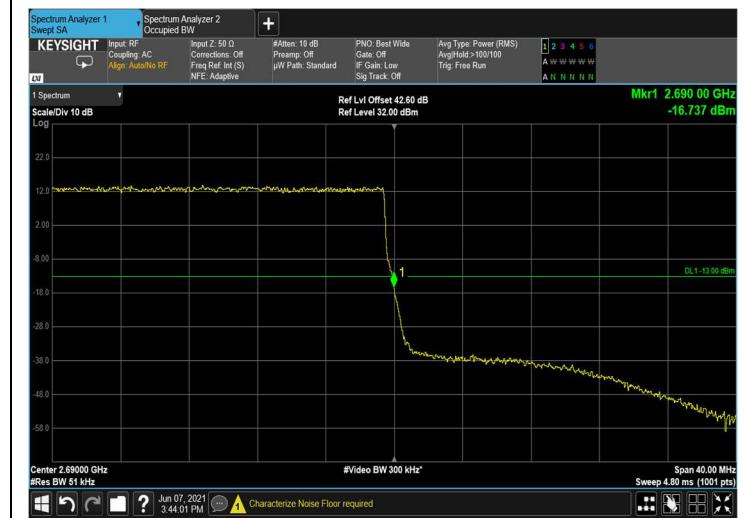


Figure 305: 256QAM 40MHz B.W.; 2670.0MHz, 15kHz

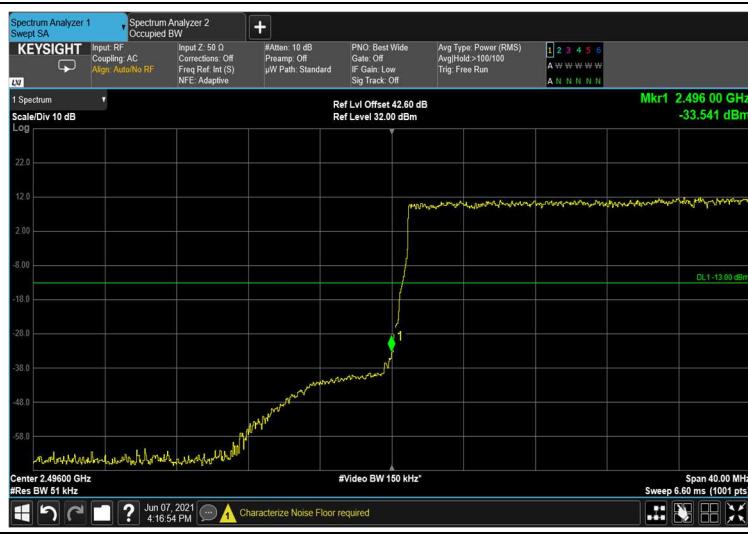


Figure 306: 256QAM 40MHz B.W.; 2516.0MHz, 30kHz



Figure 307: 256QAM 40MHz B.W.; 2670.0MHz, 30kHz

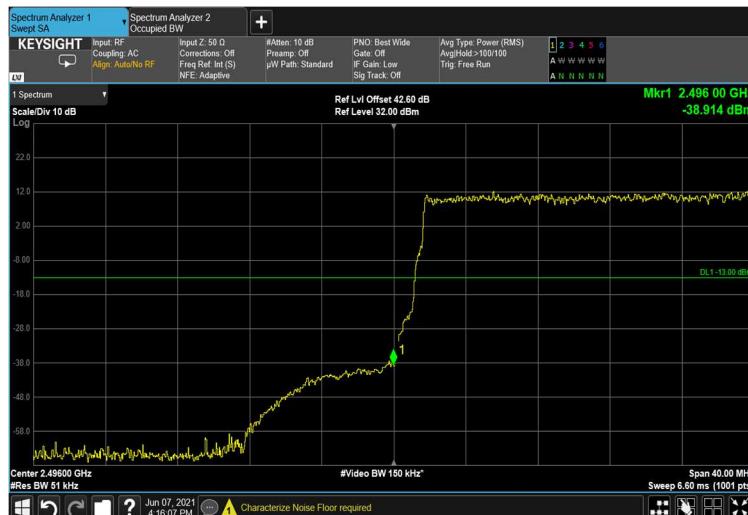


Figure 308: 256QAM 40MHz B.W.; 2516.0MHz, 60kHz

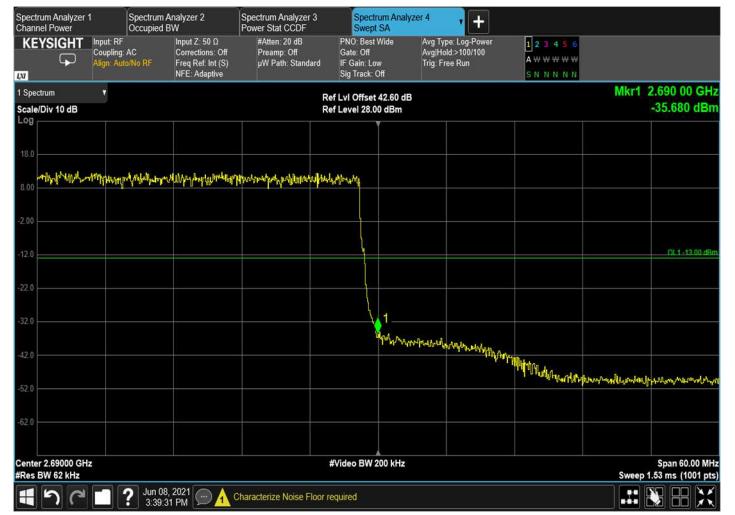


Figure 309: 256QAM 40MHz B.W.; 2670.0MHz, 60kHz



Figure 310: 256QAM 60MHz B.W.; 2526.0MHz, 30kHz



Figure 311: 256QAM 60MHz B.W.; 2660.0MHz, 30kHz

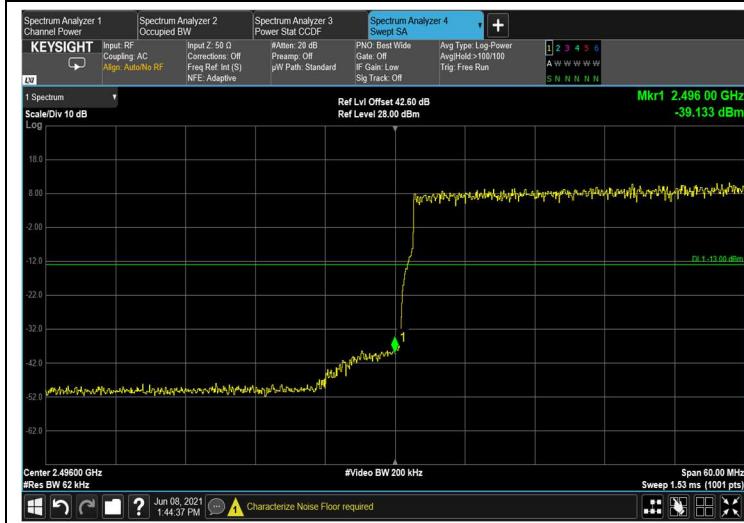


Figure 312: 256QAM 60MHz B.W.; 2526.0MHz, 60kHz

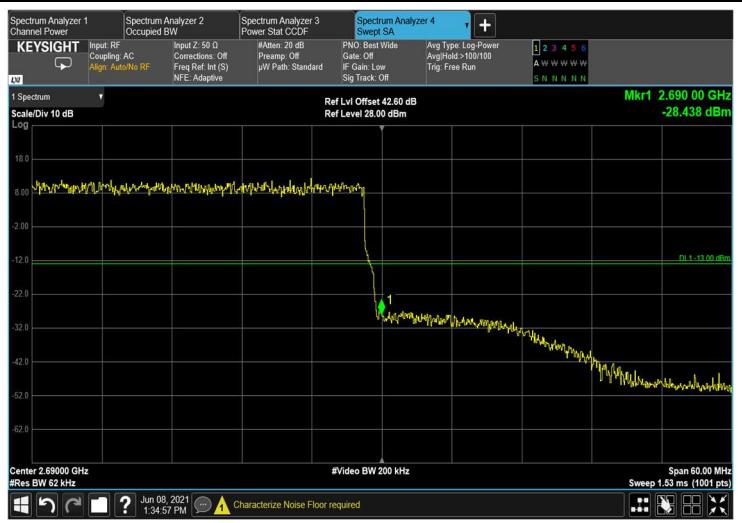


Figure 313: 256QAM 60MHz B.W.; 2660.0MHz, 60kHz

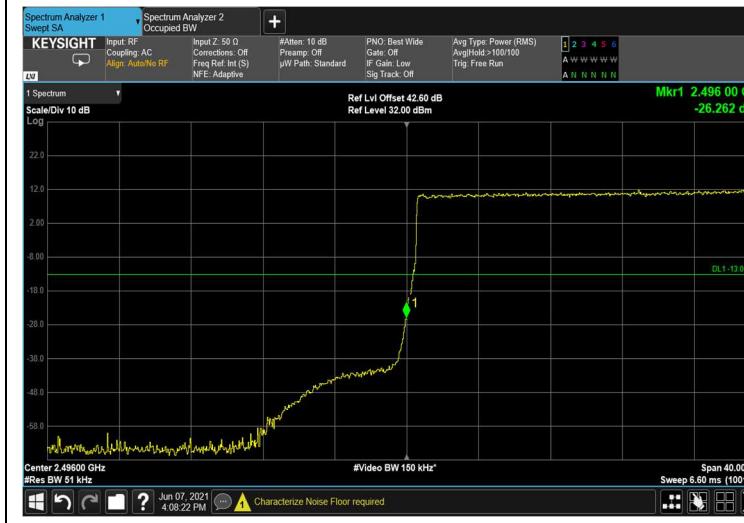


Figure 314: QPSK 40MHz B.W.; 2516.0MHz, 15kHz

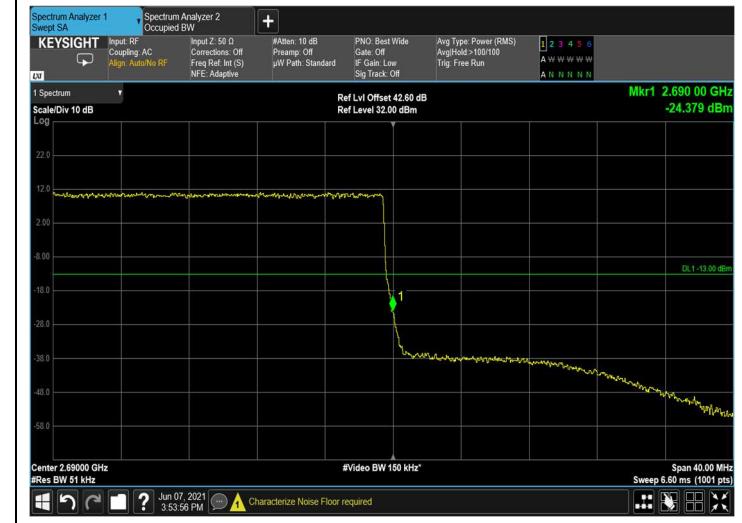


Figure 315: QPSK 40MHz B.W.; 2670.0MHz, 15kHz

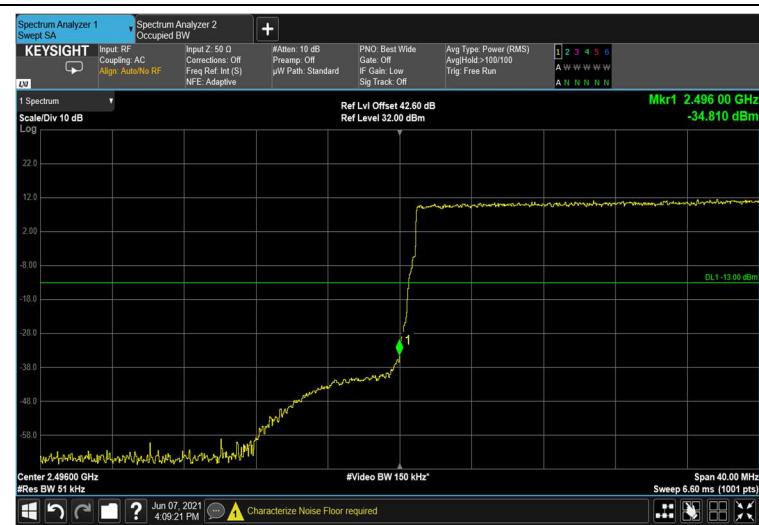


Figure 316: QPSK 40MHz B.W.; 2516.0MHz, 30kHz



Figure 317: QPSK 40MHz B.W.; 2670.0MHz, 30kHz



Figure 318: QPSK 40MHz B.W.; 2516.0MHz, 60kHz

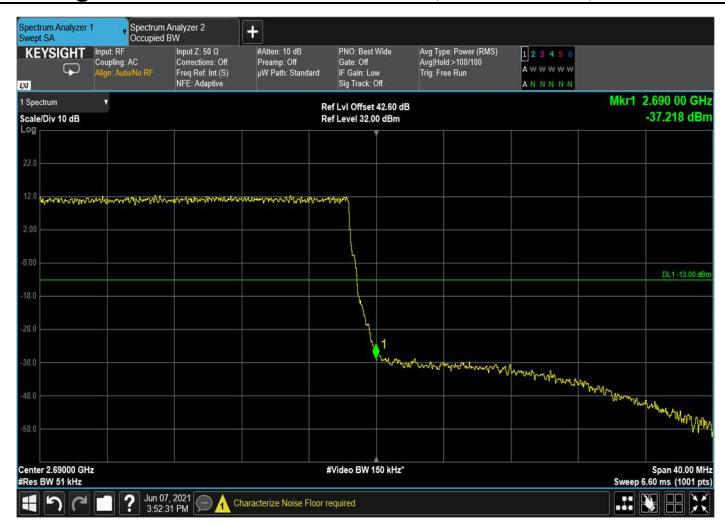


Figure 319: QPSK 40MHz B.W.; 2670.0MHz, 60kHz

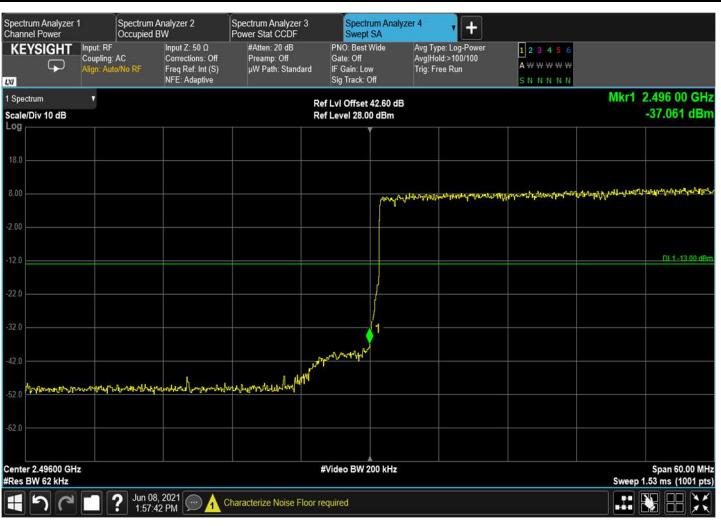


Figure 320: QPSK 60MHz B.W.; 2526.0MHz, 30kHz

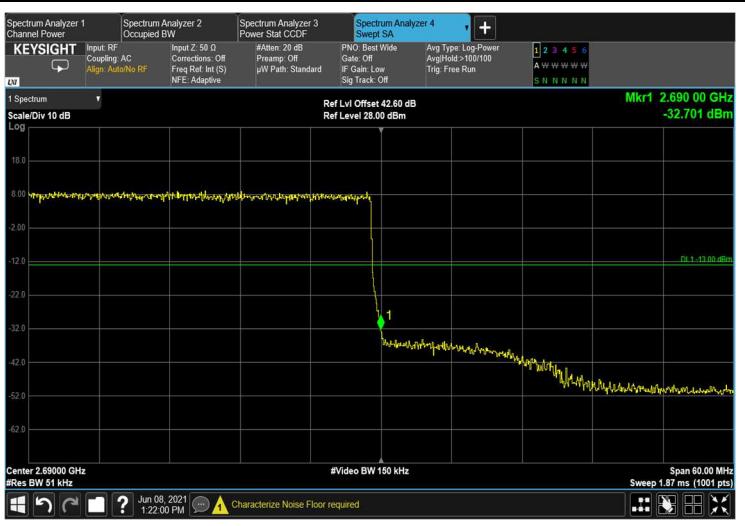


Figure 321: QPSK 60MHz B.W.; 2660.0MHz, 30kHz

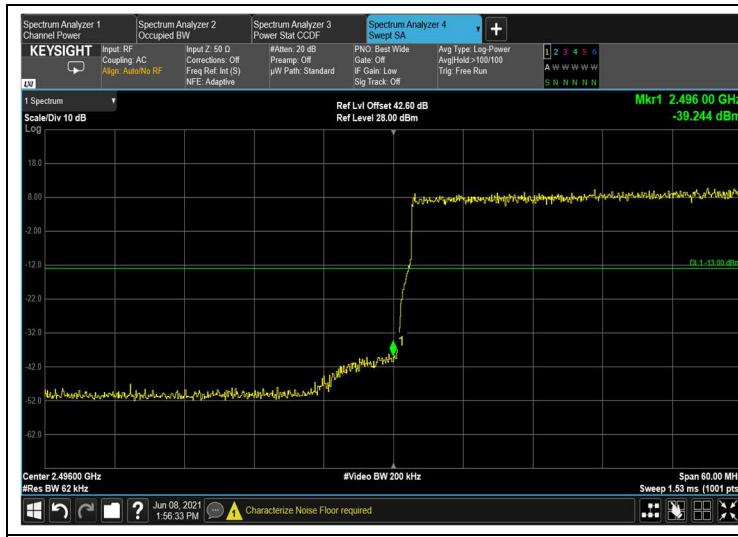


Figure 322: QPSK 60MHz B.W.; 2526.0MHz, 60kHz

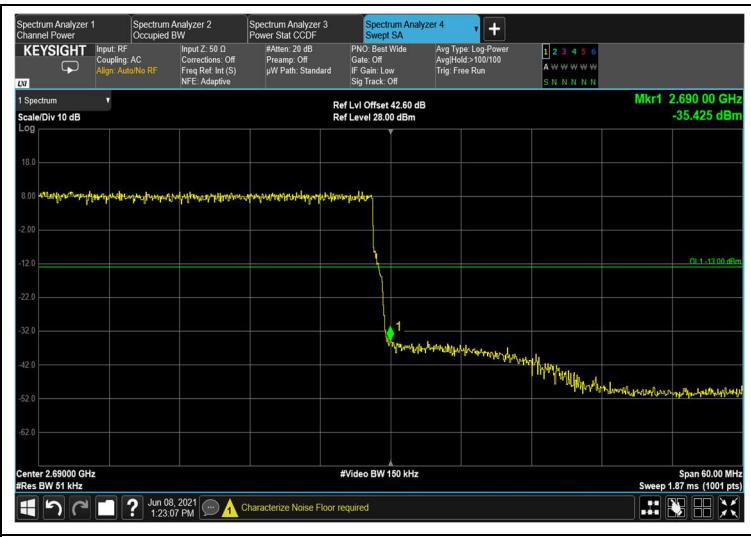


Figure 323: QPSK 60MHz B.W.; 2660.0MHz, 60kHz

4G

Bandwidth (MHz)	Modulation	Operation Frequency	Reading
		(MHz)	(dBm)
20	16QAM	2506	-36.668
		2680	-33.039
	64QAM	2506	-37.182
		2680	-34.401
	QPSK	2506	-37.708
		2680	-35.028

Table 28 Band Edge Spectrum Results 64QAM/16QAM/QPSK



Figure 324: 16QAM 20MHz B.W.; 2506.0MHz



Figure 325: 16QAM 20MHz B.W.; 2680.0MHz

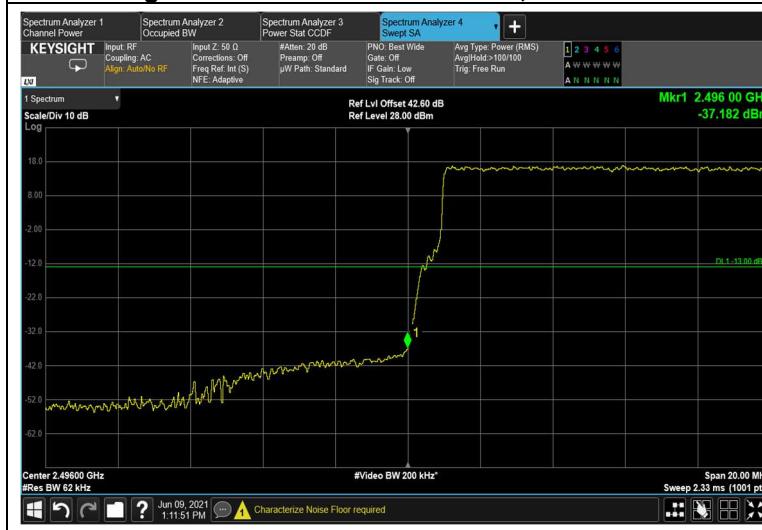


Figure 326: 64QAM 20MHz B.W.; 2506.0MHz

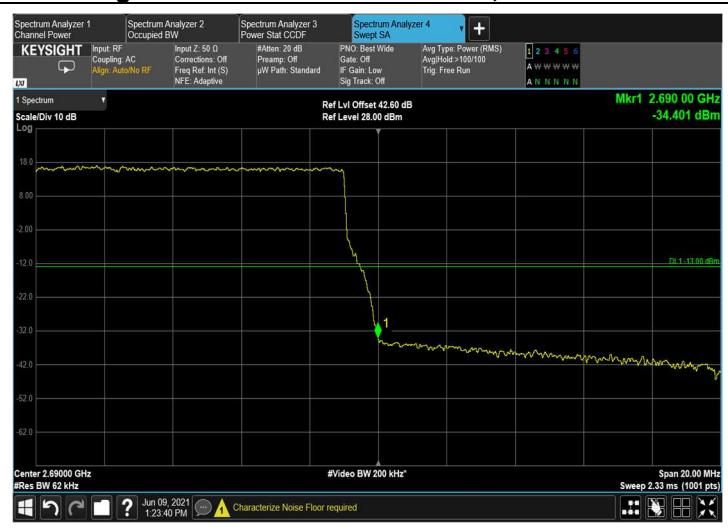


Figure 327: 64QAM 20MHz B.W.; 2680.0MHz

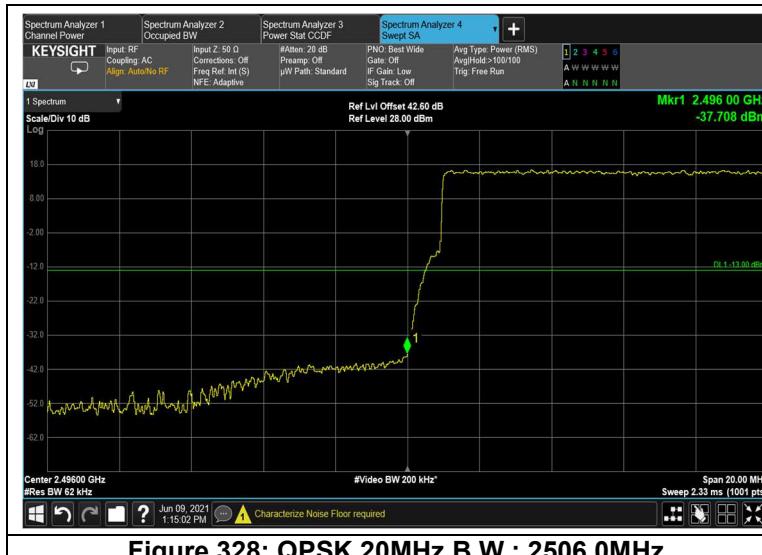


Figure 328: QPSK 20MHz B.W.; 2506.0MHz

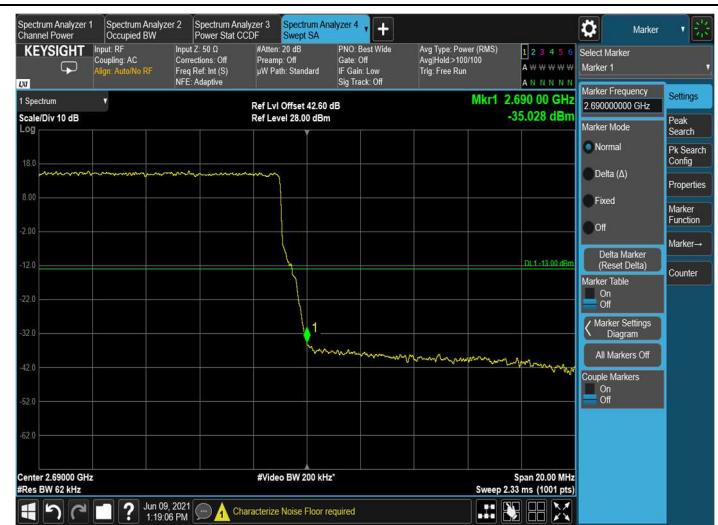


Figure 329: QPSK 20MHz B.W.; 2680.0MHz

7.5 Equipment Used; Band Edge Spectrum

Instrument	Manufacturer	Model	Serial Number	Calibration	
				Last Calibration	Calibration Due
EXA signal Analyzer	Keysight	UXA N9040B	MY56080119	January 31, 2020	January 31, 2022
EXG Vector Signal Generator	Agilent Technologies	N5172B	MY53051952	January 17, 2019	January 17, 2022
40 dB Attenuator	Weinschel Associates	WA 39-40-33	-	November 1, 2020	November 1, 2021
RF Coaxial Cable	Huber-Suner	SLLS210B	-	November 1, 2020	November 1, 2021

Table 29 Test Equipment Used