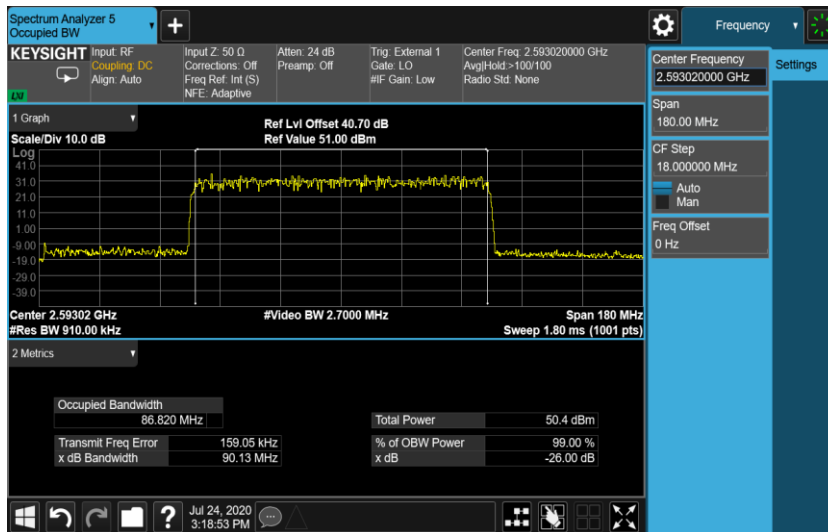
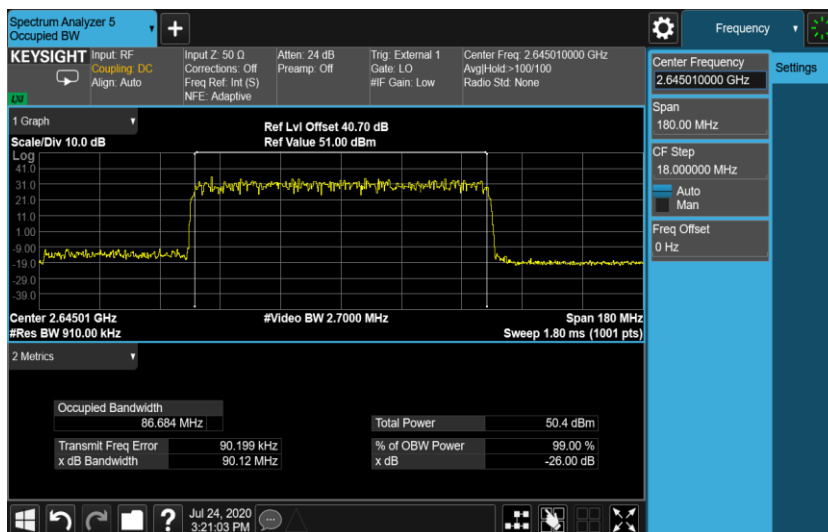


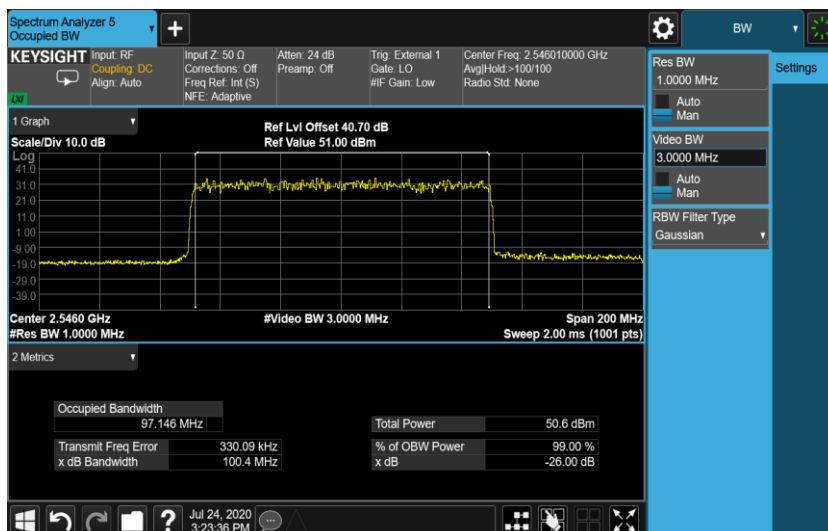
Port H, QPSK/90.0MHz Channel Position M



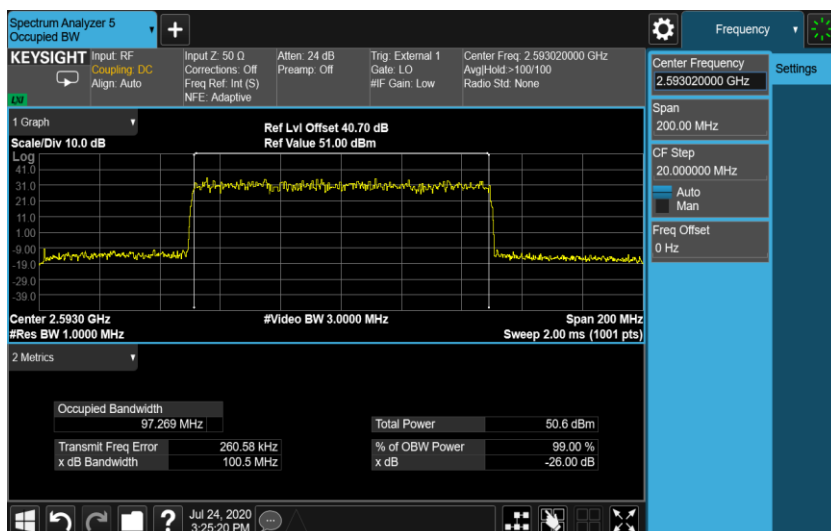
Port H, QPSK/90.0MHz Channel Position T



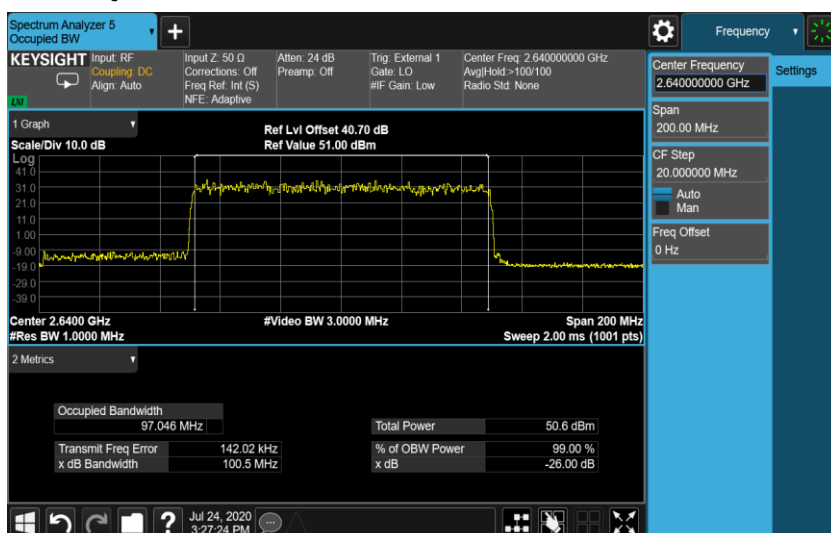
Port H, QPSK/100.0MHz Channel Position B



Port H, QPSK/100.0MHz Channel Position M



Port H, QPSK/100.0MHz Channel Position T



A.3 Spurious Emissions at Band Edge

A.3.1 Reference

FCC CFR 47 Part 2, Clause 2.1051

FCC CFR 47 Part 27, Clause 27.53(m)

A.3.2 Method of measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

For MIMO mode configurations, the limit was adjusted with a correction of -9.03dB $[10\log(1/8)]$ by using the Measure and Add $10\log(N)$ dB technique according to KDB 662911 D01 Multiple Transmitter Output accounting for simultaneous transmission from antenna ports . Then the limit was adjust to -22.03dBm.

In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed and a RBW of 1MHz for measurements of emissions > 1MHz away from the band edges.

The limit was adjusted with -13.01dB $[10\log(50/1000)]$ to compensate for the reduced measurement bandwidth 50KHz for emission more than 1MHz away from the band edges. For MIMO mode, the limit of -35.04dBm was used for emission more than 1MHz away from the band edges. Spectrum analyzer detector was set as RMS.

A.3.3 Measurement limit

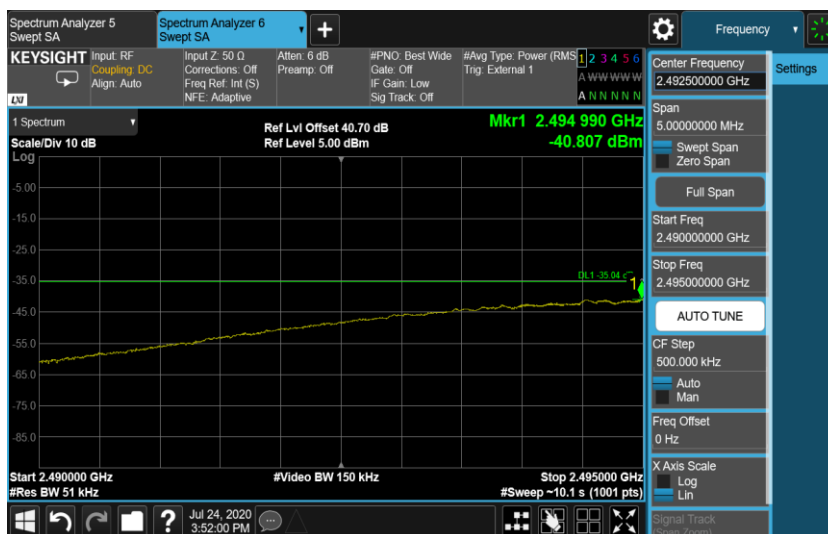
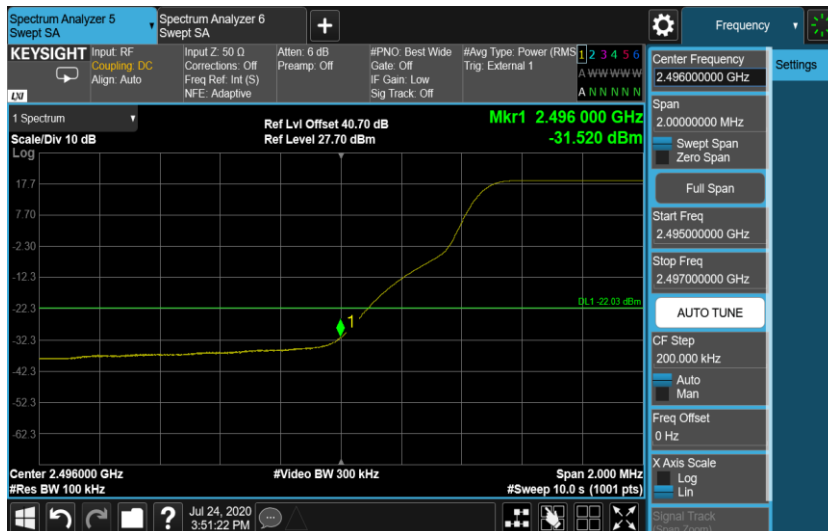
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

A.3.4 Measurement result

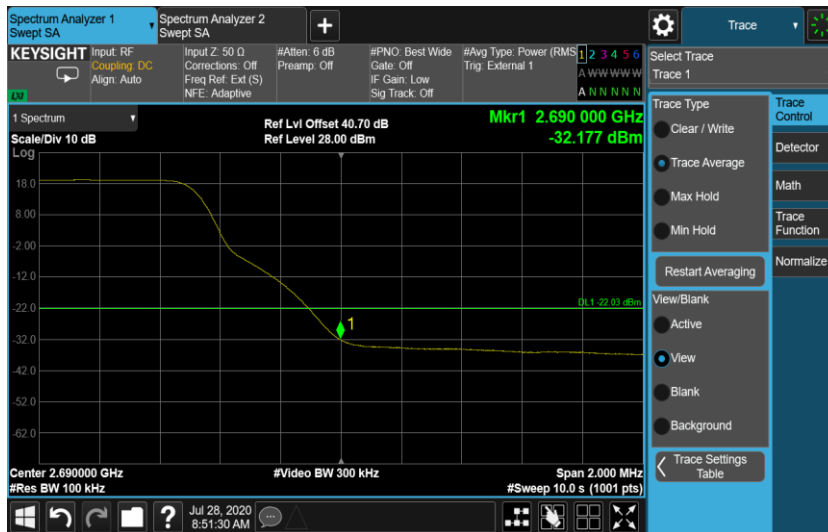
Configuration LTE-MIMO-1C

Band Edge Frequency	Channel Bandwidth	RBW(KHz)	Limit(dBm)
Channel Position B	10.0 MHz	100	-22.03
	15.0 MHz	150	-22.03
	20.0 MHz	200	-22.03
Channel Position T	10.0 MHz	100	-22.03
	15.0 MHz	150	-22.03
	20.0 MHz	200	-22.03

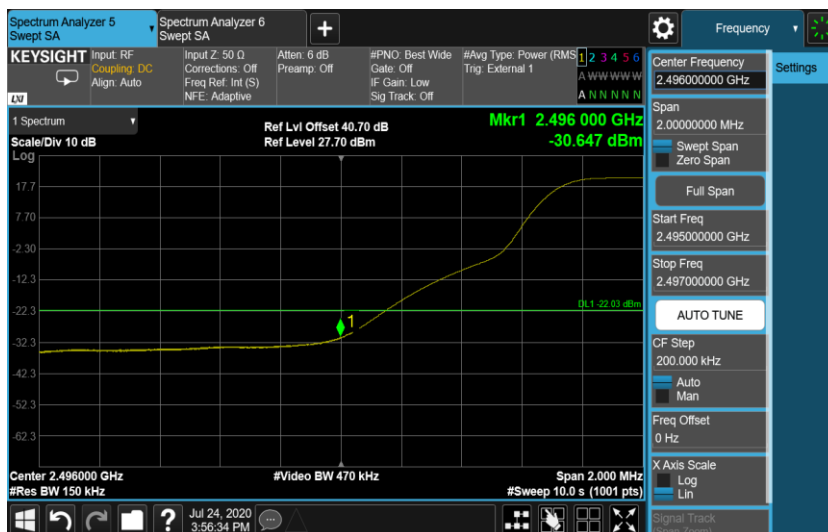
Port H, Channel Position B, 10.0MHz



Port H, Channel Position T, 10.0MHz

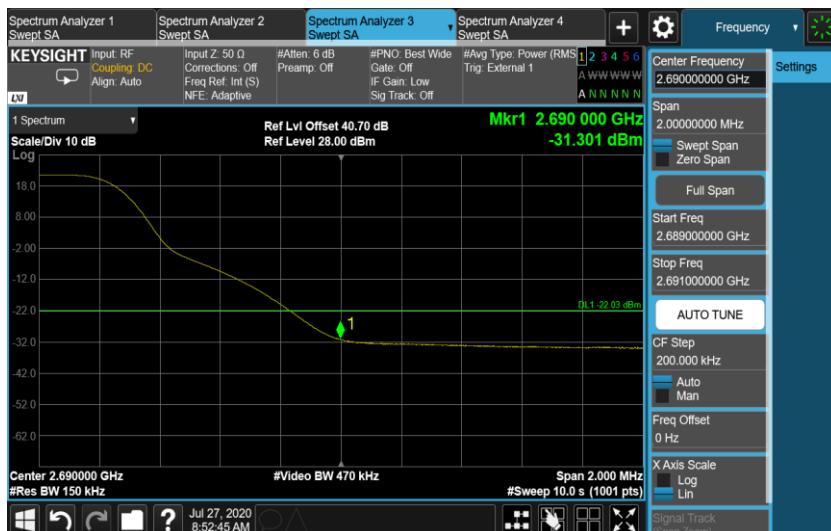


Port H, Channel Position B, 15.0MHz

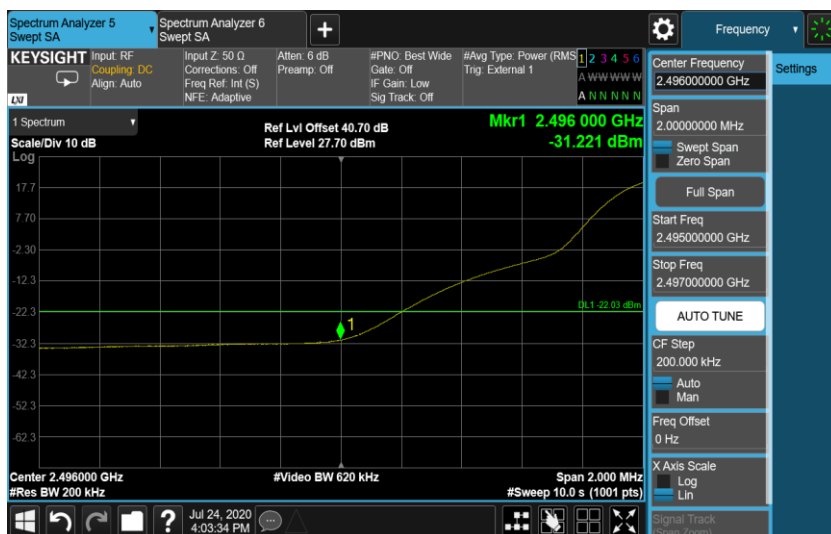




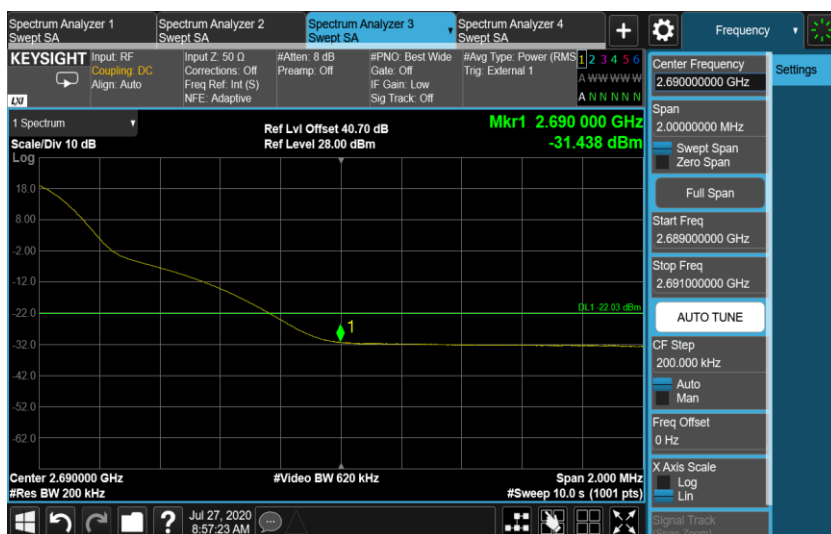
Port H, Channel Position T, 15.0MHz



Port H, Channel Position B, 20.0MHz



Port H, Channel Position T, 20.0MHz

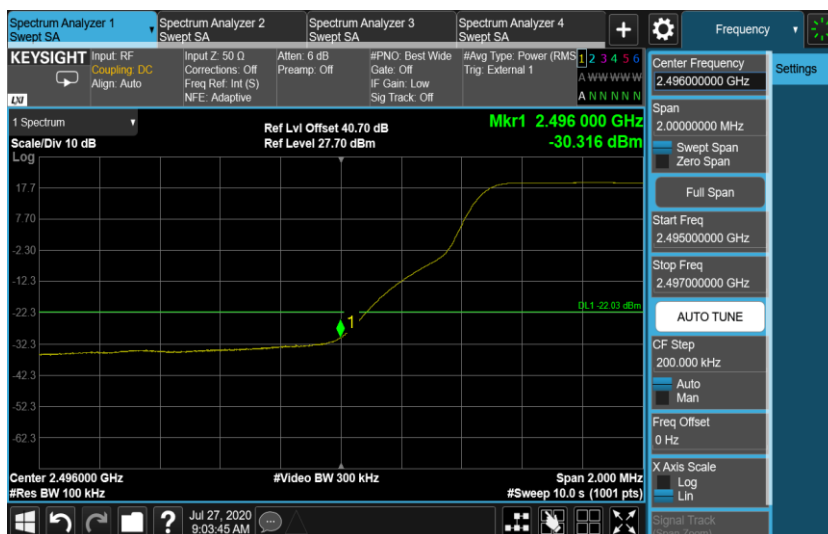




Configuration LTE-MIMO-2C

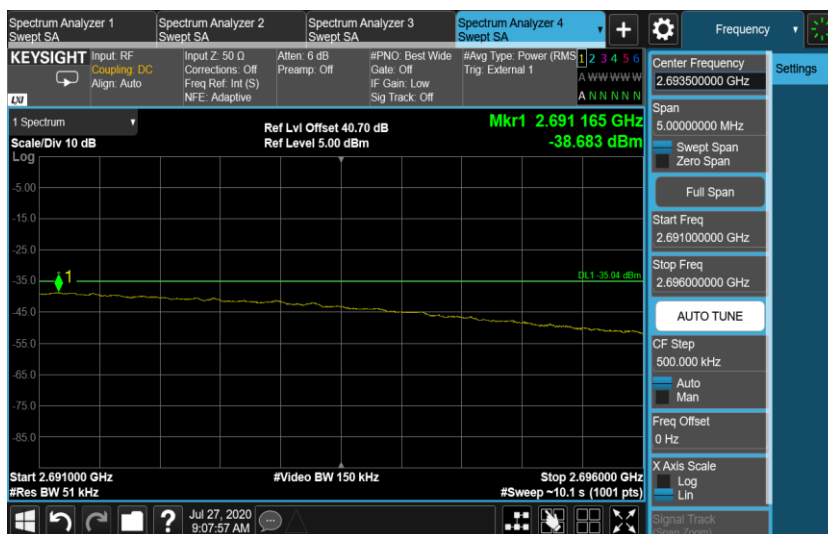
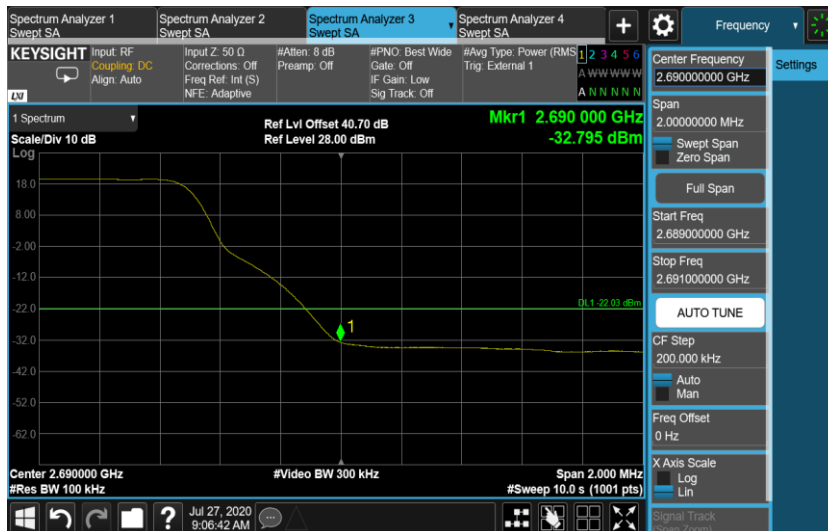
Band Edge Frequency	Channel Bandwidth	RBW(KHz)	Limit(dBm)
Channel Position B	10.0 MHz	100	-22.03
	15.0 MHz	150	-22.03
	20.0 MHz	200	-22.03
Channel Position T	10.0 MHz	100	-22.03
	15.0 MHz	150	-22.03
	20.0 MHz	200	-22.03

Port H, Channel Position B, 10.0MHz

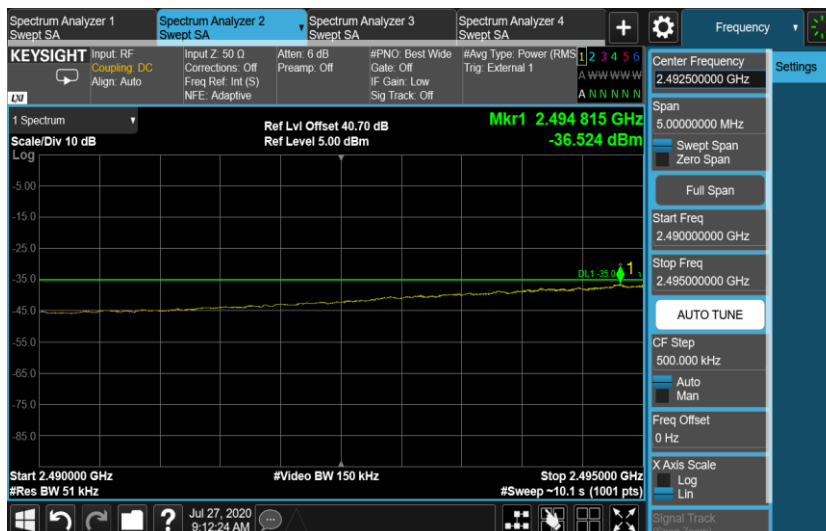
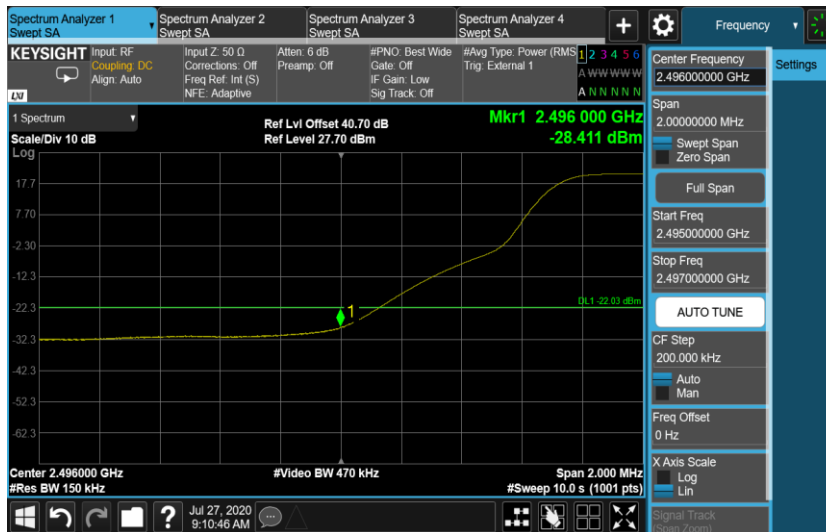




Port H, Channel Position T, 10.0MHz

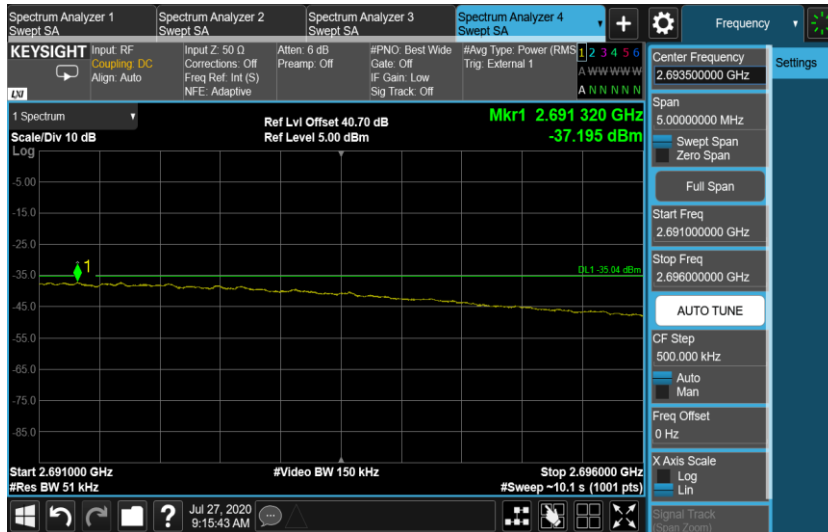


Port H, Channel Position B, 15.0MHz

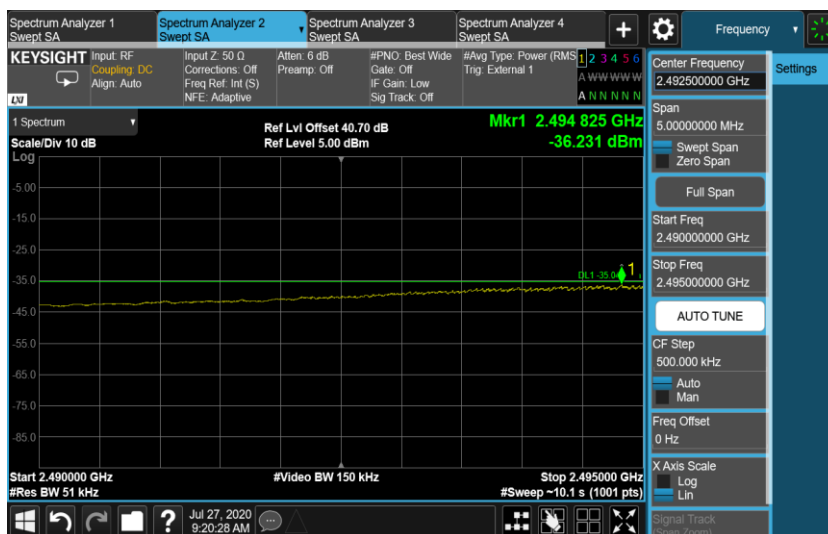
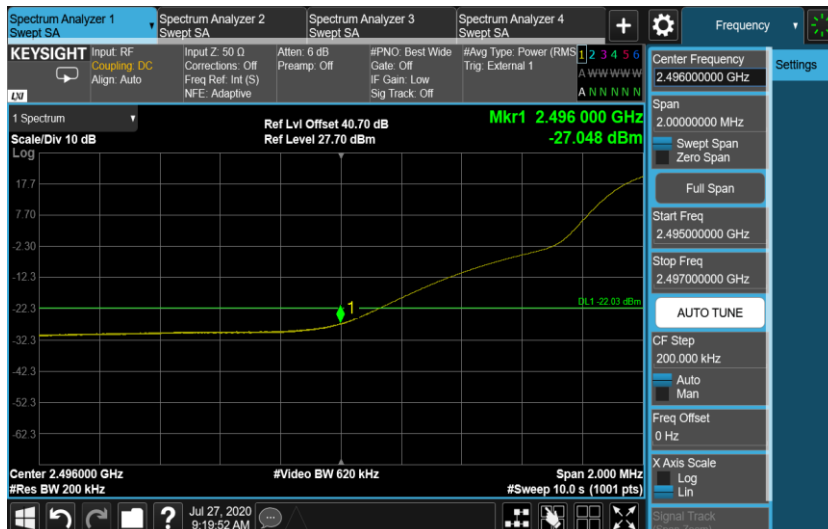


Port H, Channel Position T, 15.0MHz

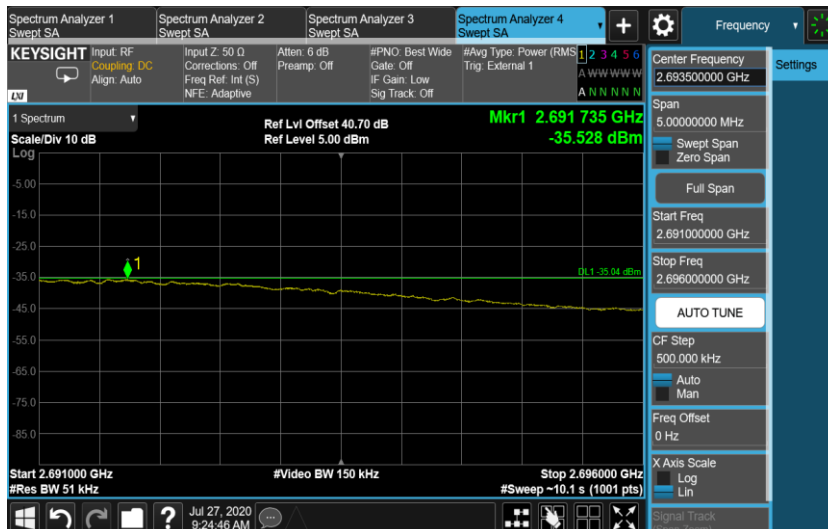
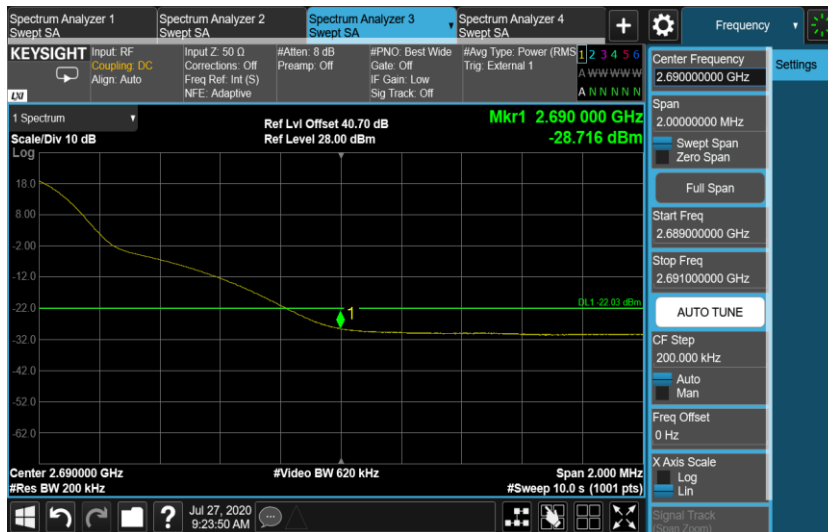




Port H, Channel Position B, 20.0MHz



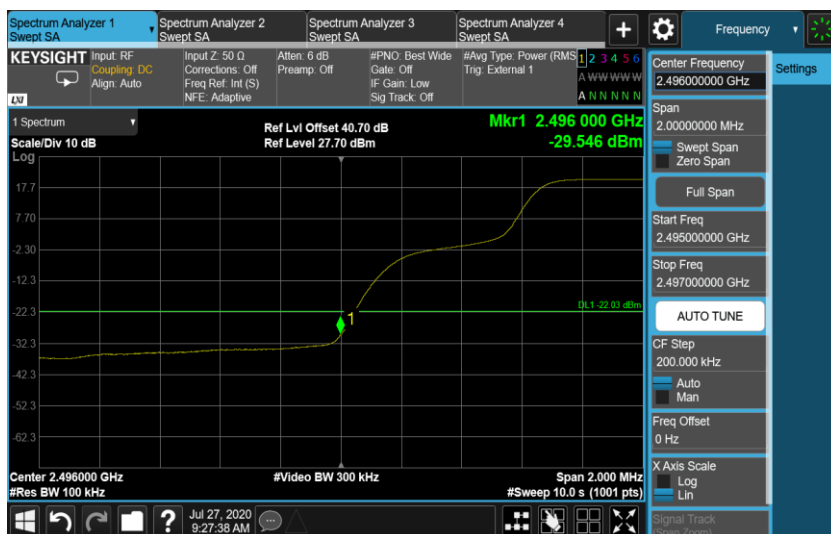
Port H, Channel Position T, 20.0MHz



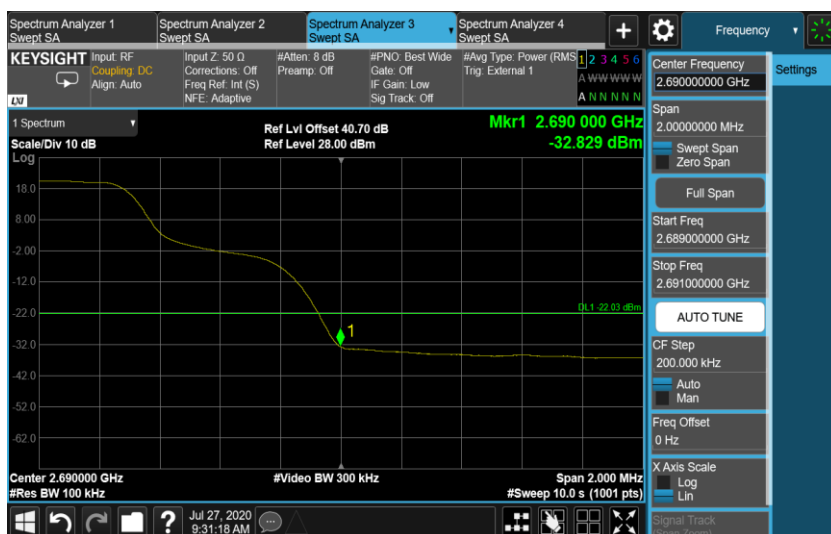
Configuration NR-MIMO-1C QPSK

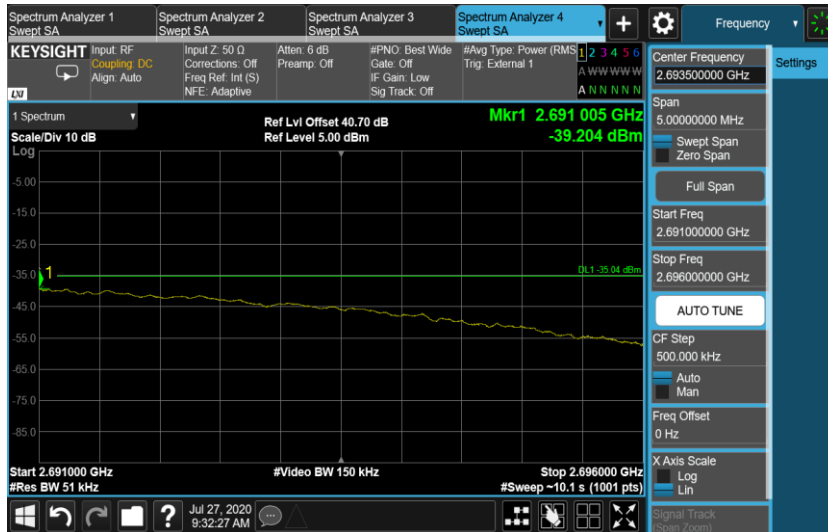
Band Edge Frequency	Channel Bandwidth	RBW(KHz)	Limit(dBm)
Channel Position B	10.0 MHz	100	-22.03
	15.0 MHz	150	-22.03
	20.0 MHz	200	-22.03
	30.0 MHz	300	-22.03
	40.0 MHz	400	-22.03
	50.0 MHz	500	-22.03
	60.0 MHz	600	-22.03
	70.0 MHz	700	-22.03
	80.0 MHz	800	-22.03
	90.0 MHz	900	-22.03
	100.0 MHz	1000	-22.03
Channel Position T	10.0 MHz	100	-22.03
	15.0 MHz	150	-22.03
	20.0 MHz	200	-22.03
	30.0 MHz	300	-22.03
	40.0 MHz	400	-22.03
	50.0 MHz	500	-22.03
	60.0 MHz	600	-22.03
	70.0 MHz	700	-22.03
	80.0 MHz	800	-22.03
	90.0 MHz	900	-22.03
	100.0 MHz	1000	-22.03

Port H, Channel Position B, 10.0MHz

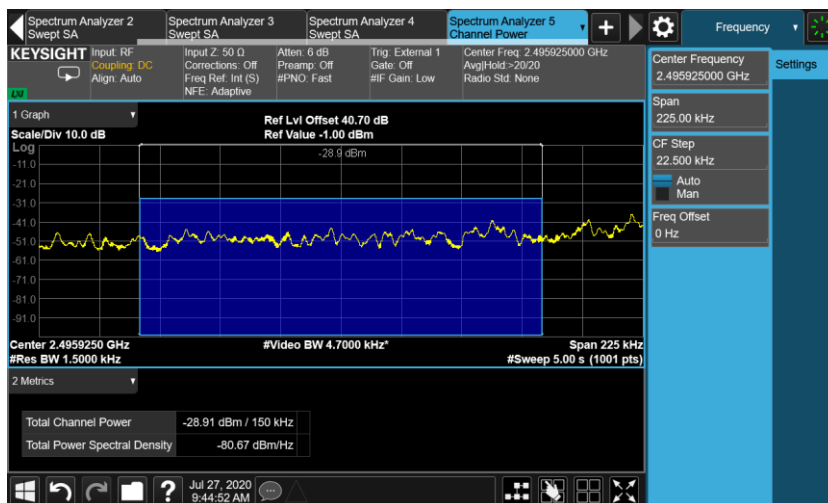
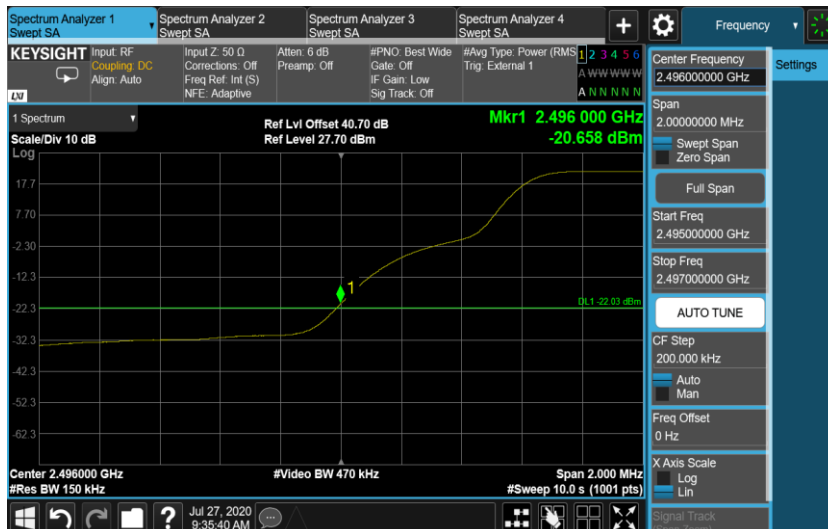


Port H, Channel Position T, 10.0MHz





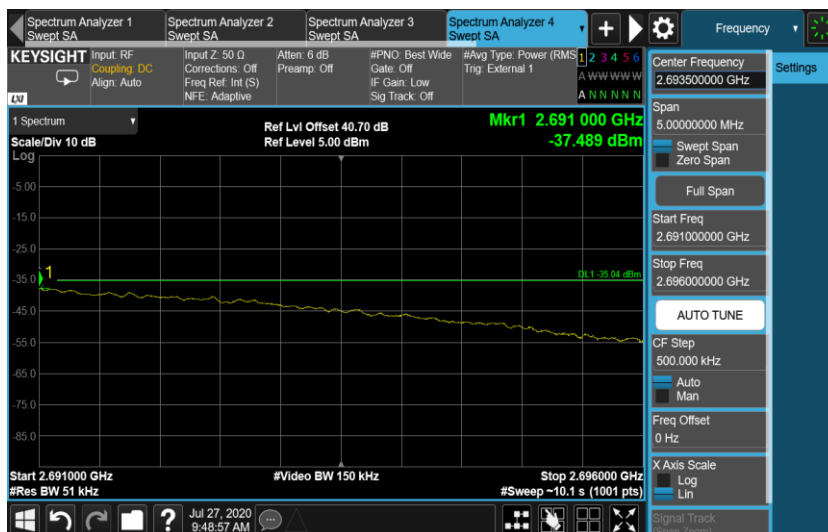
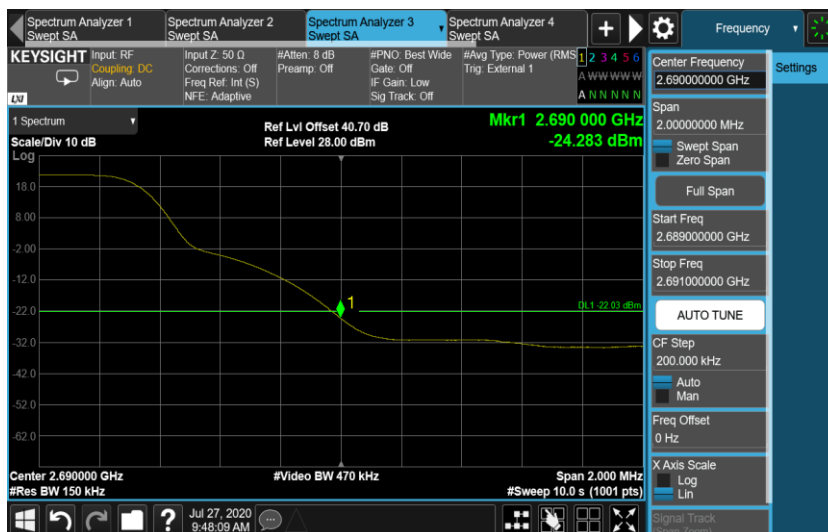
Port H, Channel Position B, 15.0MHz



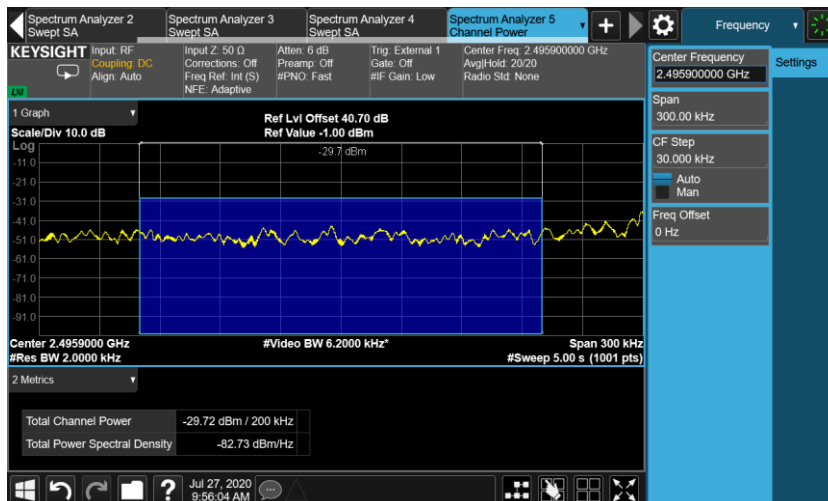
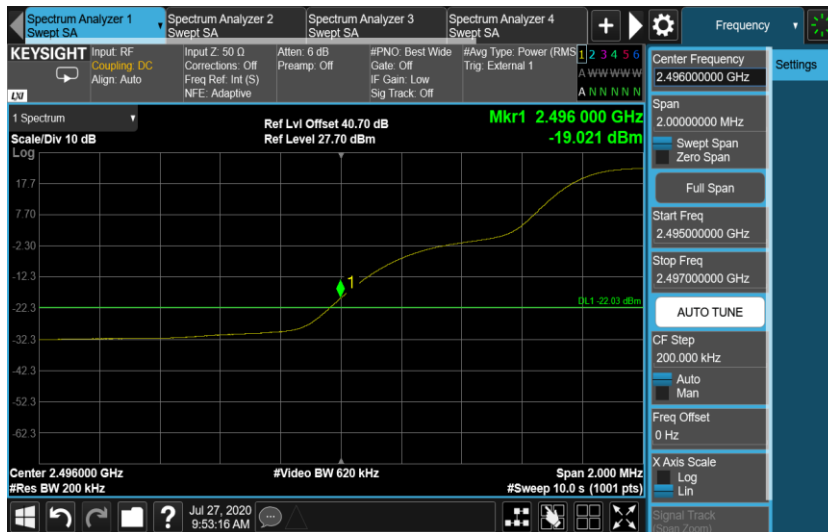
The channel power of 150KHz for 2495.925MHz is -28.91dBm, which is within the limit of -22.03dBm.



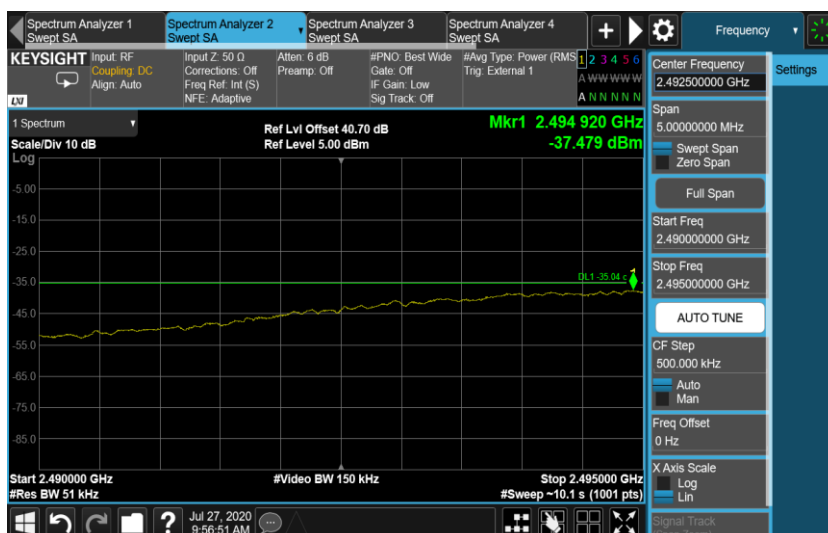
Port H, Channel Position T, 15.0MHz



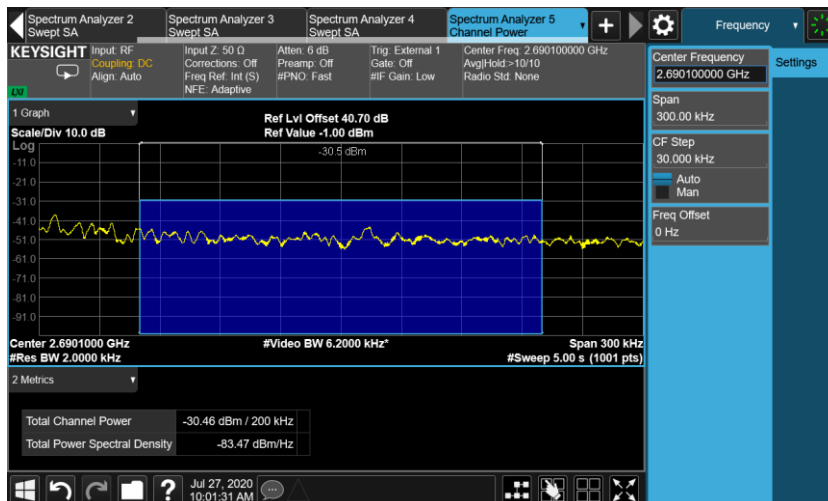
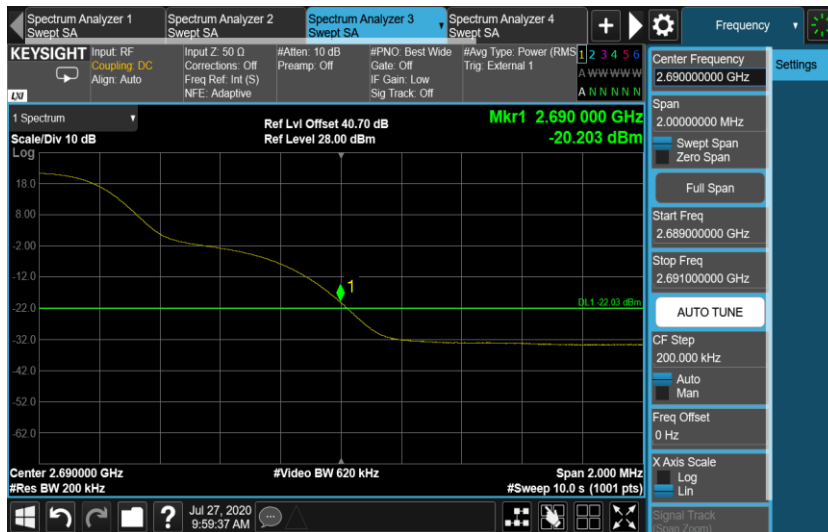
Port H, Channel Position B, 20.0MHz



The channel power of 200KHz for 2495.9MHz is -29.72dBm, which is within the limit of -22.03dBm.



Port H, Channel Position T, 20.0MHz



The channel power of 200KHz for 2690.1MHz is -30.46dBm, which is within the limit of -22.03dBm.

