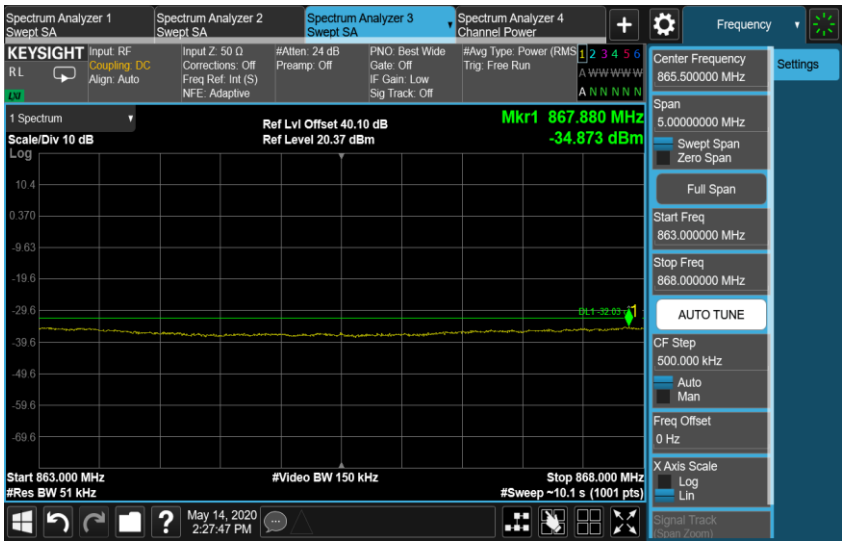
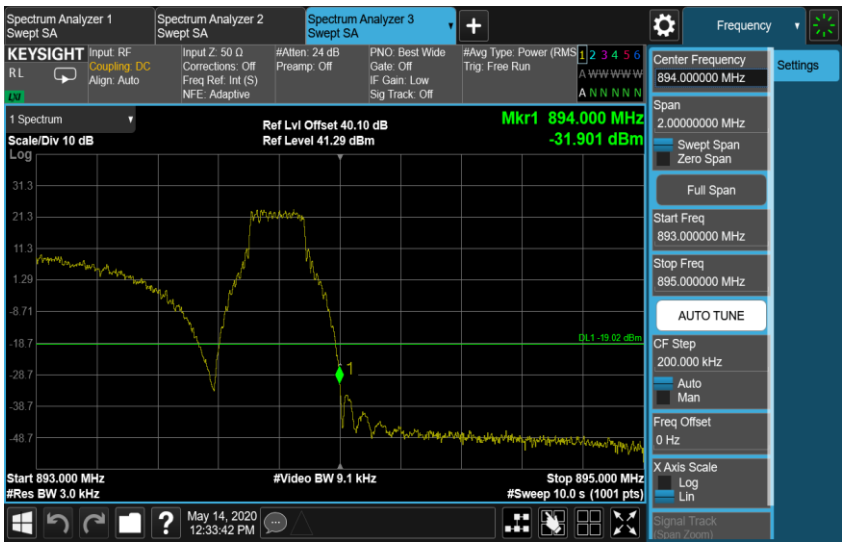
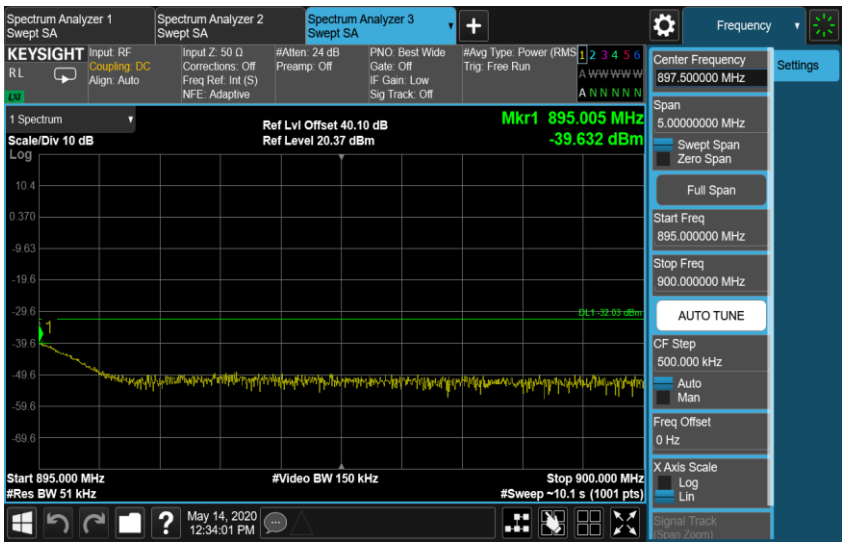


Port A , Channel Position T, LTE 5.0MHz

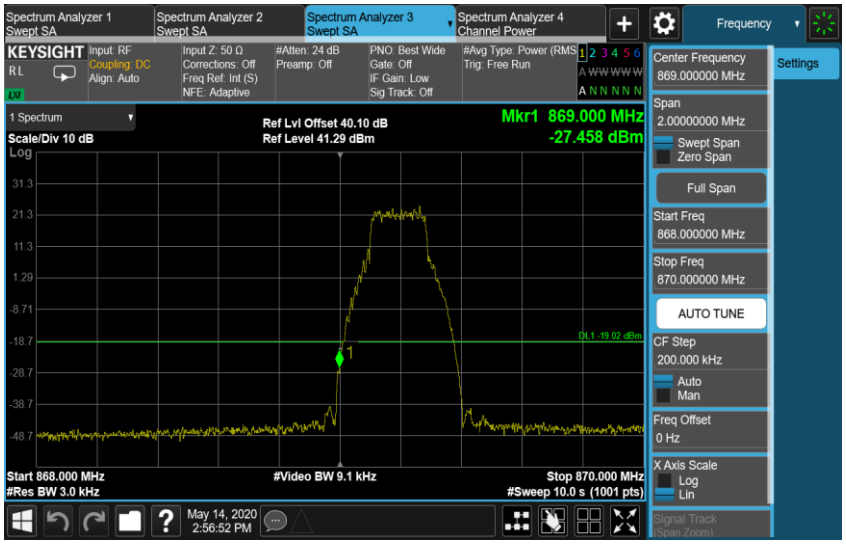


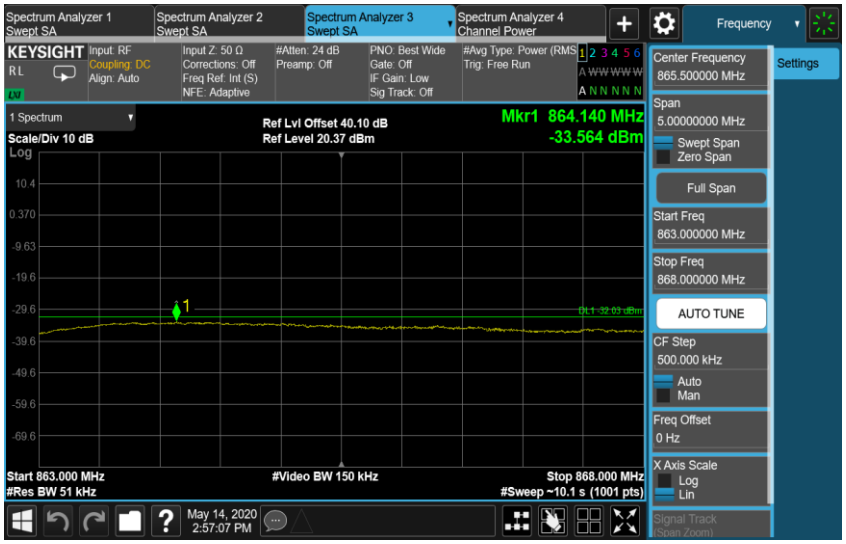


Configuration WCDMA+LTE+NB-IoT-MC-4-BE, (1WCDMA QPSK +1LTE, QPSK+2SA, QPSK)

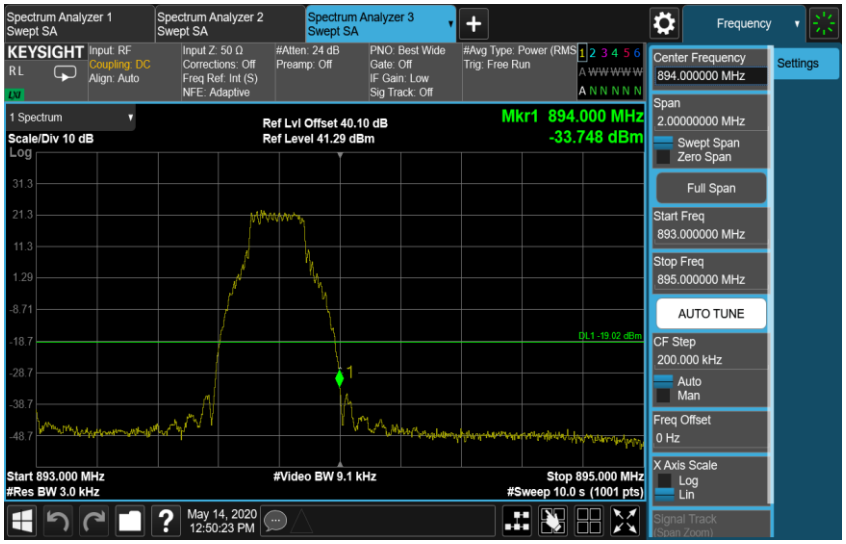
Band Edge Frequency	Channel Bandwidth	RBW (KHz)	Limit (dBm)
Channel Position B	(NB) 250KHz,(W) 5.0MHz (L) 1.4 MHz	3	-19.02
Channel Position T	(NB) 250KHz,(W) 5.0MHz (L) 1.4 MHz	3	-19.02

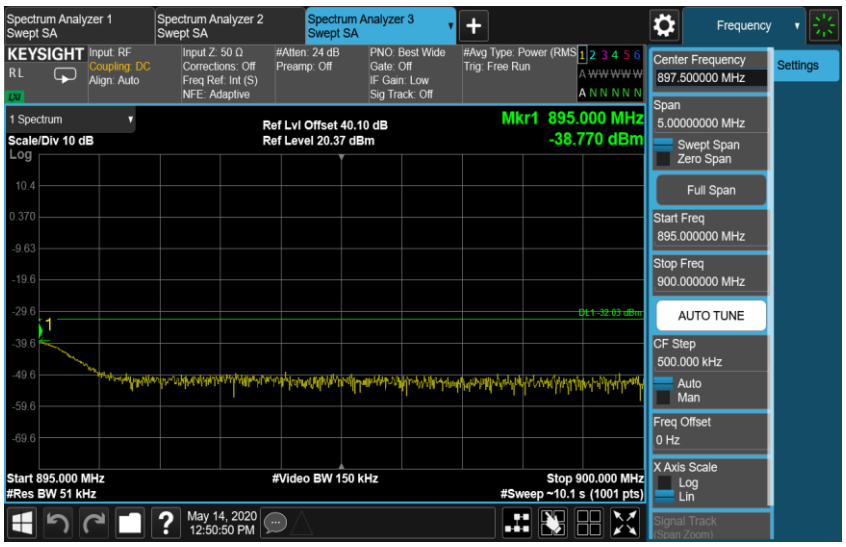
Port A , Channel Position B, LTE 1.4MHz





Port A , Channel Position T, LTE 1.4MHz

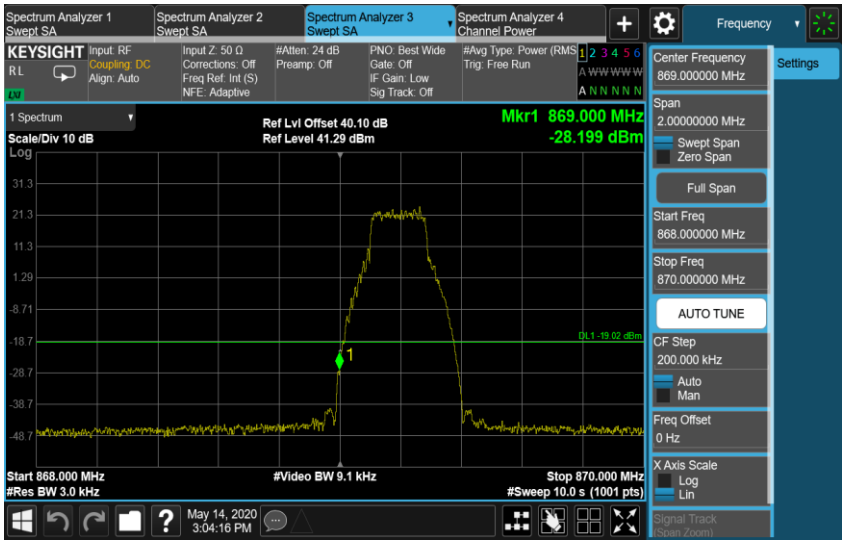


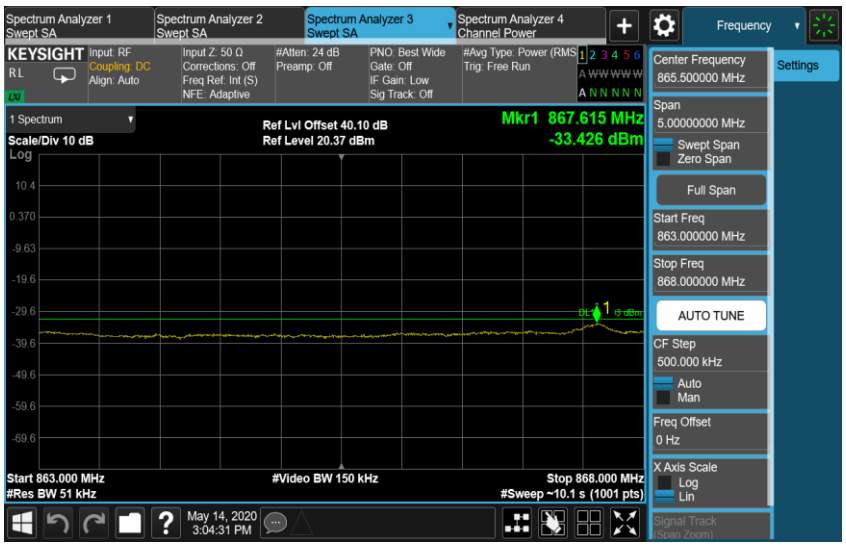


Configuration WCDMA+LTE+NB-IoT-MC-5-BE, (1WCDMA QPSK +1LTE, QPSK+2SA, QPSK)

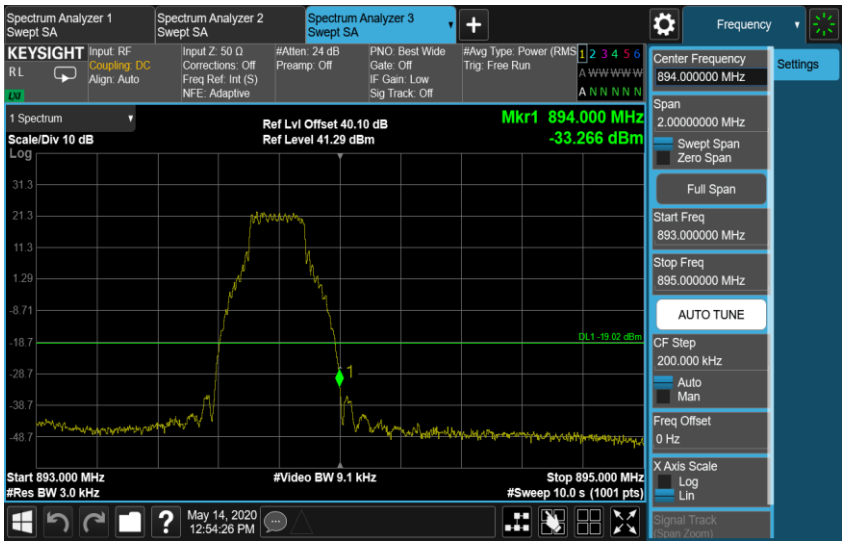
Band Edge Frequency	Channel Bandwidth	RBW (KHz)	Limit (dBm)
Channel Position B	(NB) 250KHz,(W) 5.0MHz (L) 5.0 MHz	3	-19.02
Channel Position T	(NB) 250KHz,(W) 5.0MHz (L) 5.0 MHz	3	-19.02

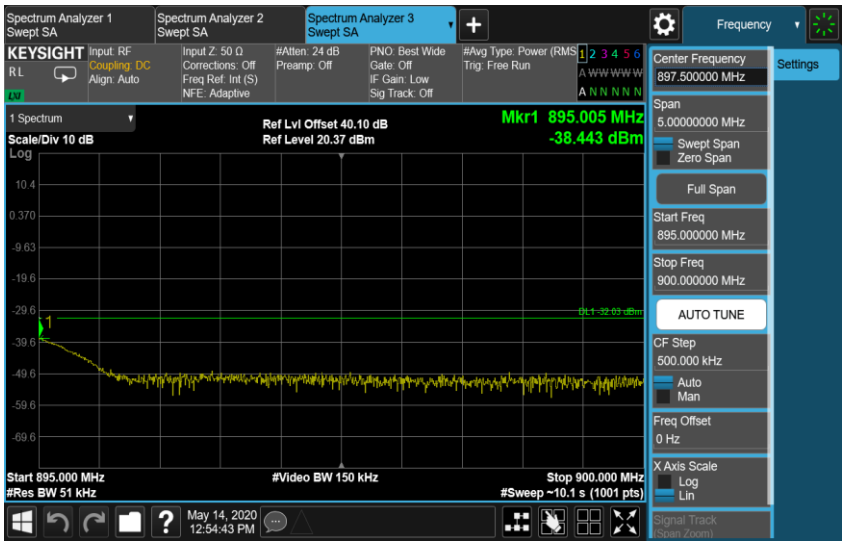
Port A , Channel Position B, LTE 5.0MHz





Port A , Channel Position T, LTE 5.0MHz





A.4 Conducted Spurious Emission

A.4.1 Reference

FCC CFR 47 Part 2, Clause 2.1051
FCC CFR 47 Part 22, Clause 22.917
RSS-132, Clause 5.5

A.4.2 Method of measurement

In accordance with FCC rules, 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.

The spurious emissions from the antenna terminal were measured. The transmitter output power was attenuated using an attenuator and the frequency spectrum investigated from 3KHz to 9GHz. The resolution bandwidth of 1MHz was employed for frequency band 3KHz to 9GHz. The spectrum analyzer detector was set to RMS.

For MIMO mode configurations, the limit was adjusted with a correction of -6.02dB [10Log(1/4)] by using the Measure and Add 10Log(N) dB technique according to KDB 662911 D01 Multiple Transmitter Output accounting for simultaneous transmission from antenna ports. Then the limit was adjust to -19.02dBm.

A.4.3 Measurement limit

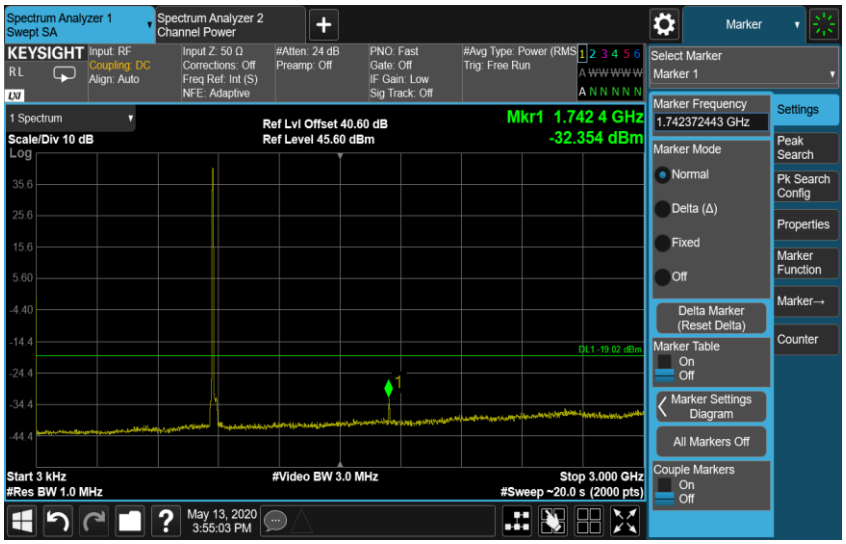
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10log(P) dB.

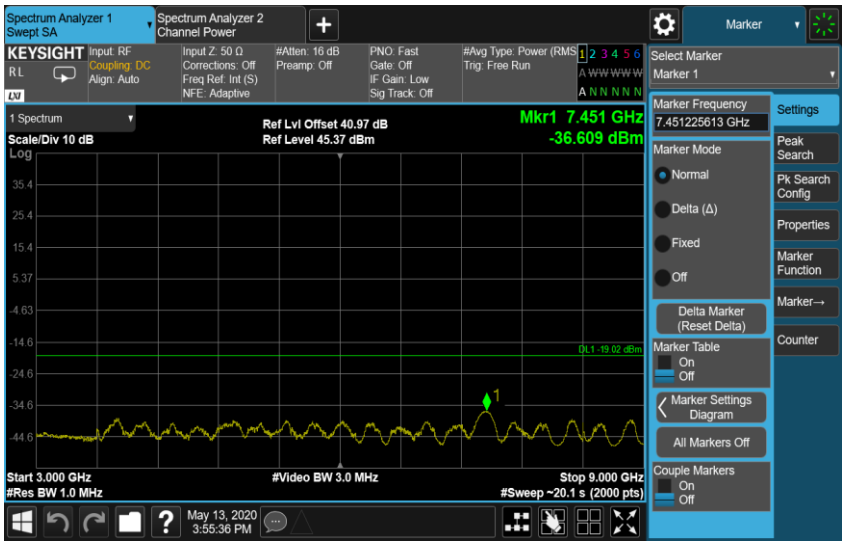
A.4.4 Measurement results

Configuration WCDMA-1C QPSK

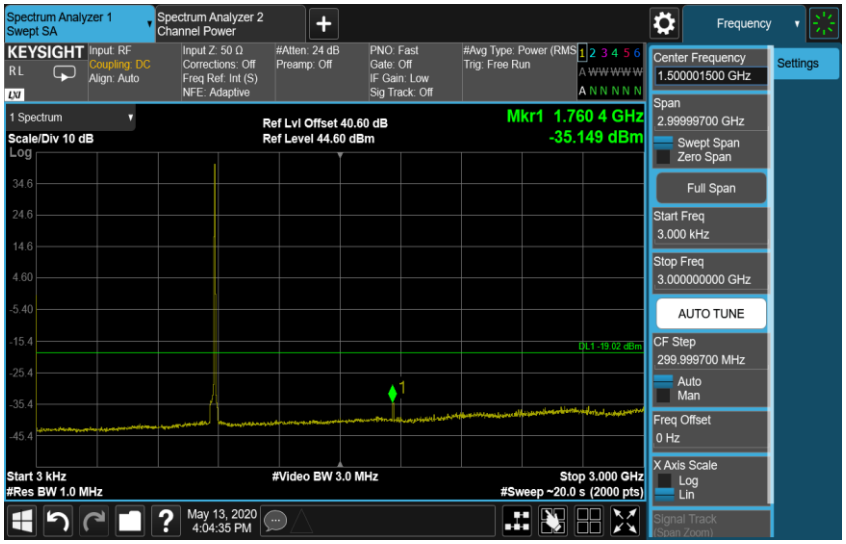
Channel Bandwidth	RBW (MHz)	Limit (dBm)
5.0 MHz	1.0	-19.02

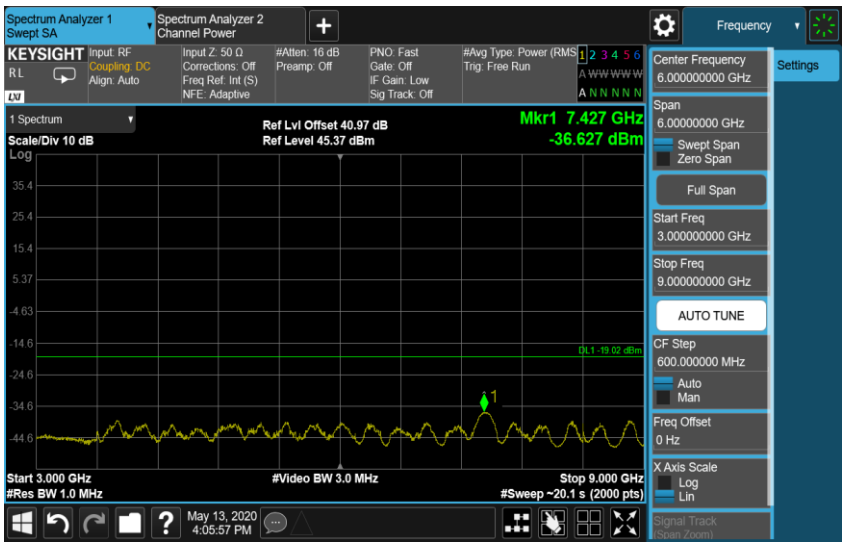
Port A, Channel Position B



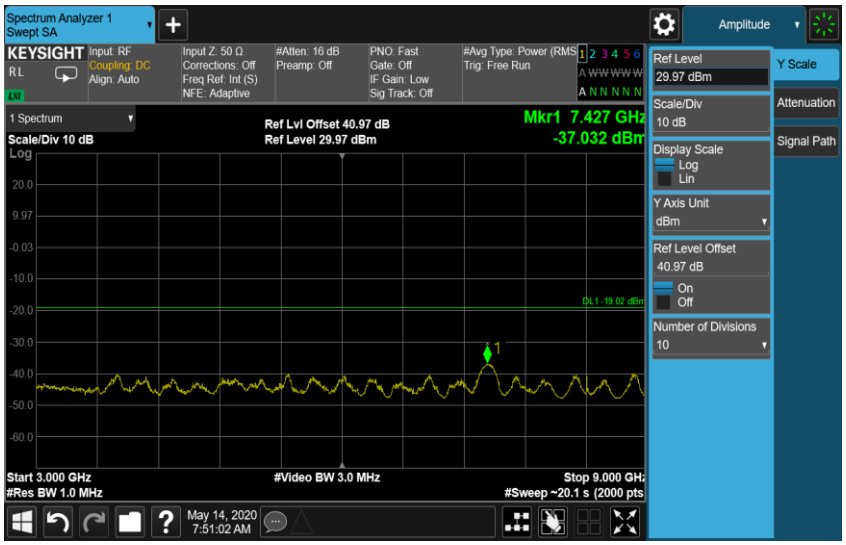


Port A, Channel Position M





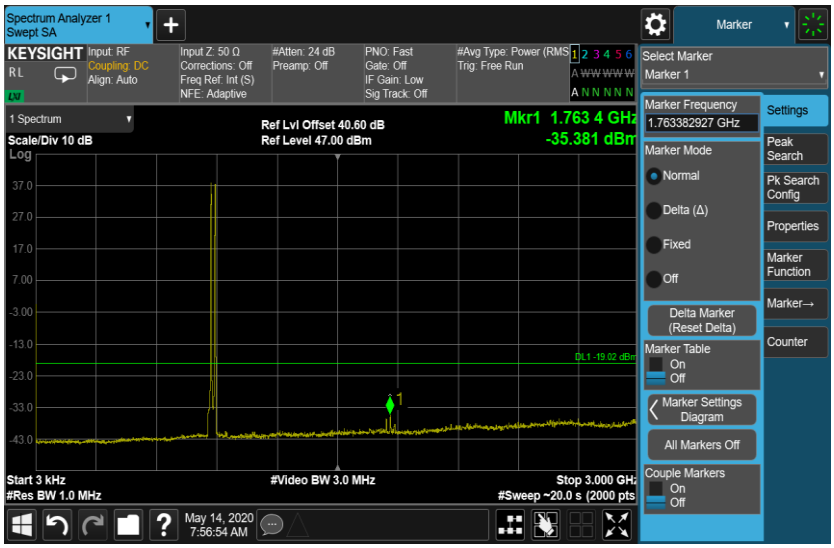
Port A, Channel Position T

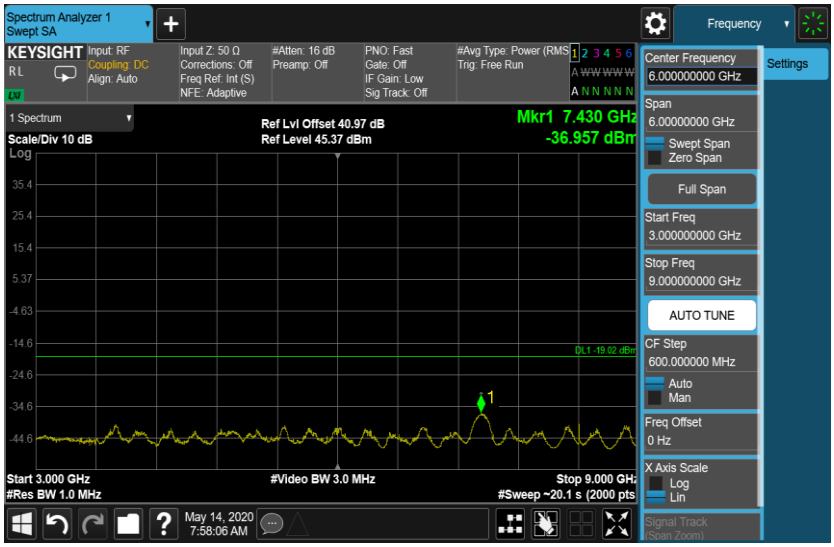


Configuration WCDMA-2C QPSK

Channel Bandwidth	RBW (MHz)	Limit (dBm)
5.0 MHz	1.0	-19.02

Port A, Channel Position M

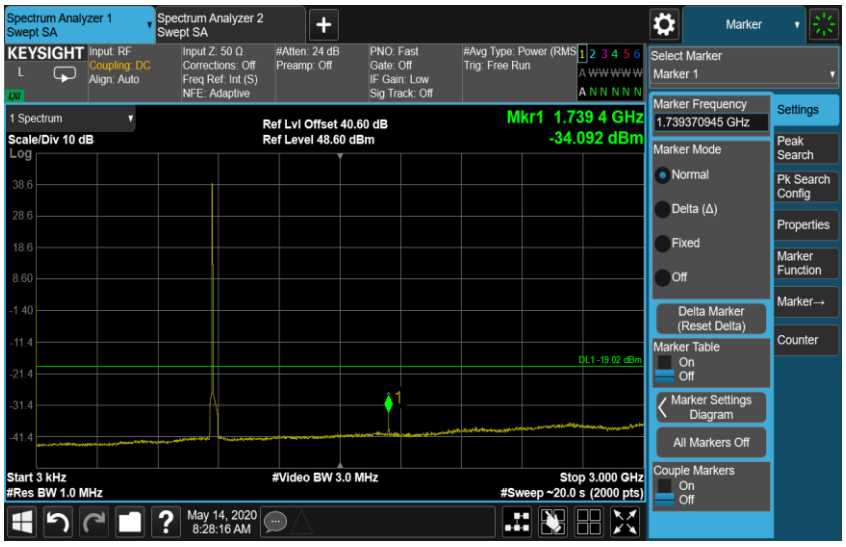


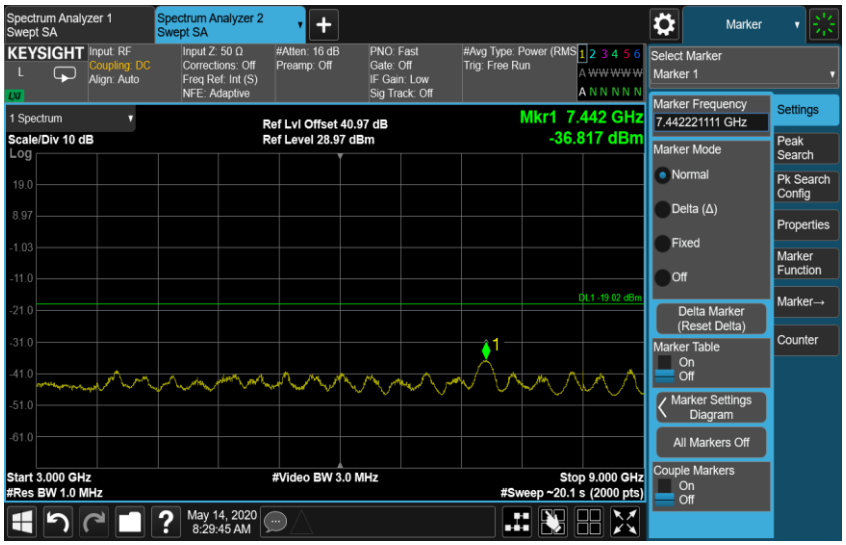


Configuration LTE-MIMO-1C QPSK

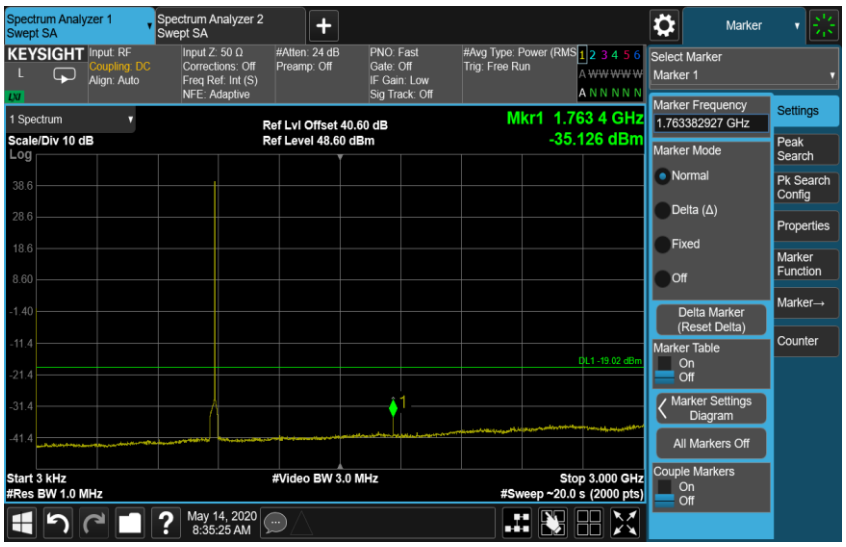
Channel Bandwidth	RBW (MHz)	Limit (dBm)
1.4 MHz	1.0	-19.02
3.0 MHz	1.0	-19.02
5.0 MHz	1.0	-19.02
10.0 MHz	1.0	-19.02
15.0 MHz	1.0	-19.02
20.0 MHz	1.0	-19.02

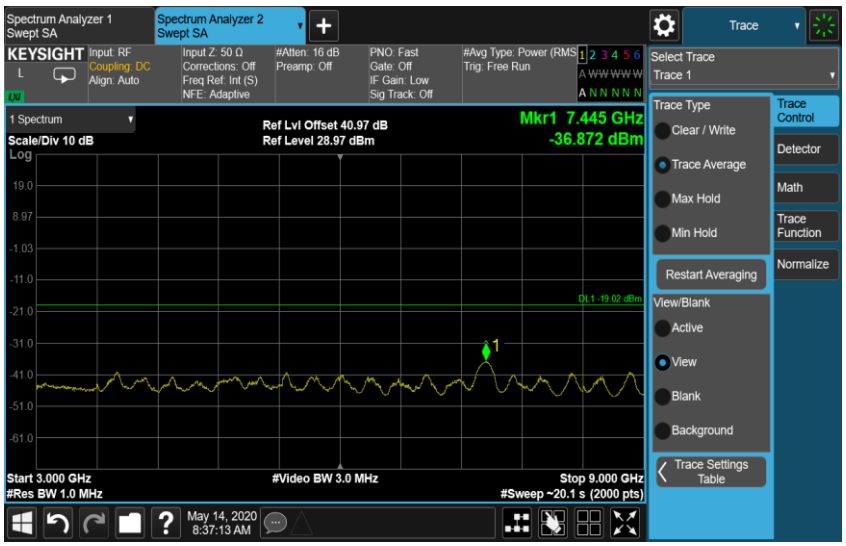
Port A, Channel Position B 1.4 MHz



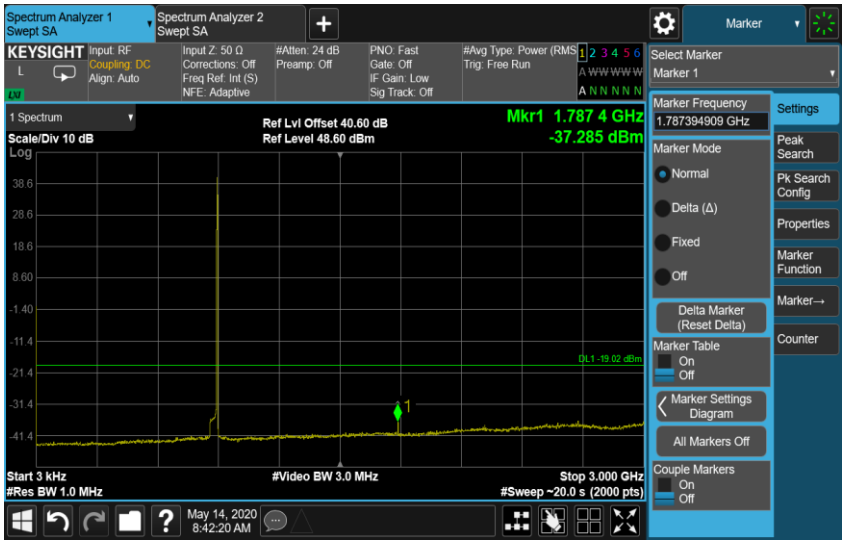


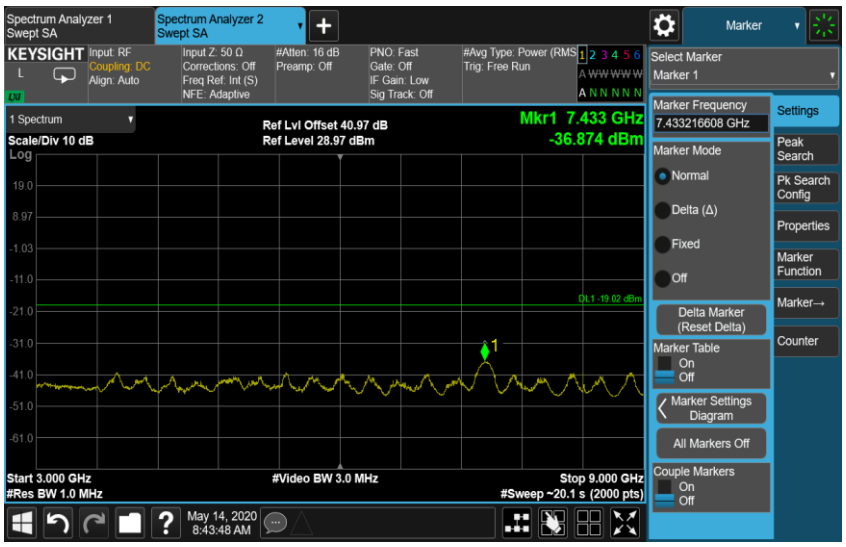
Port A, Channel Position M 1.4 MHz



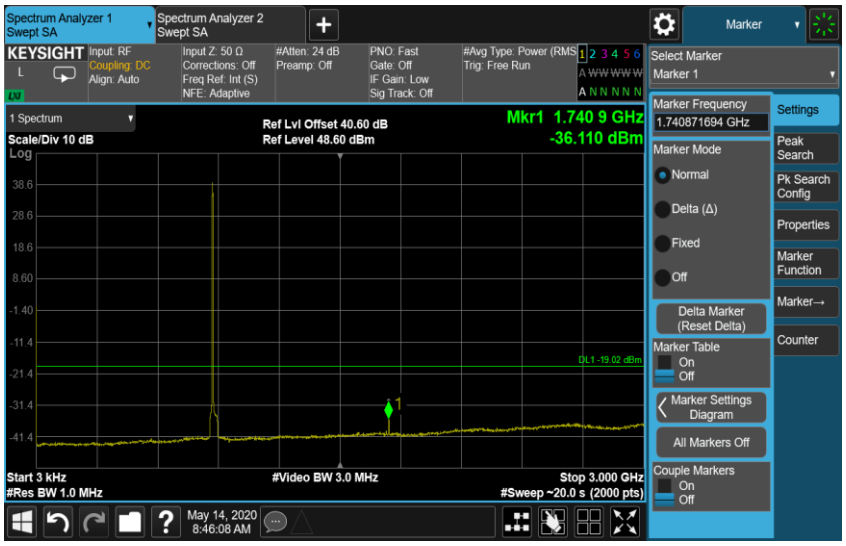


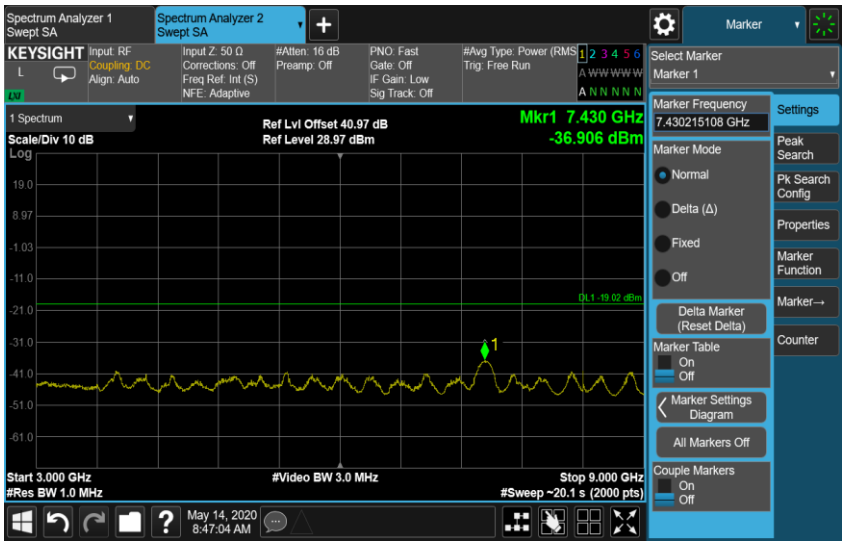
Port A, Channel Position T 1.4 MHz



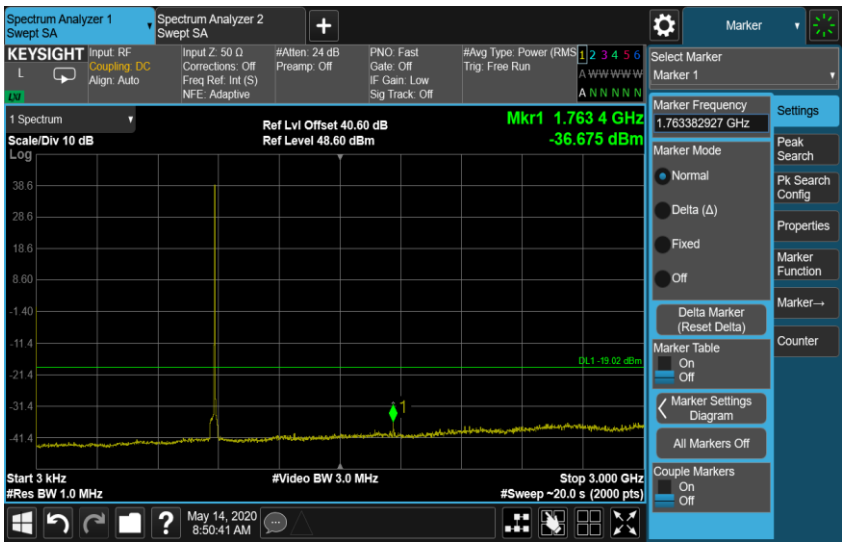


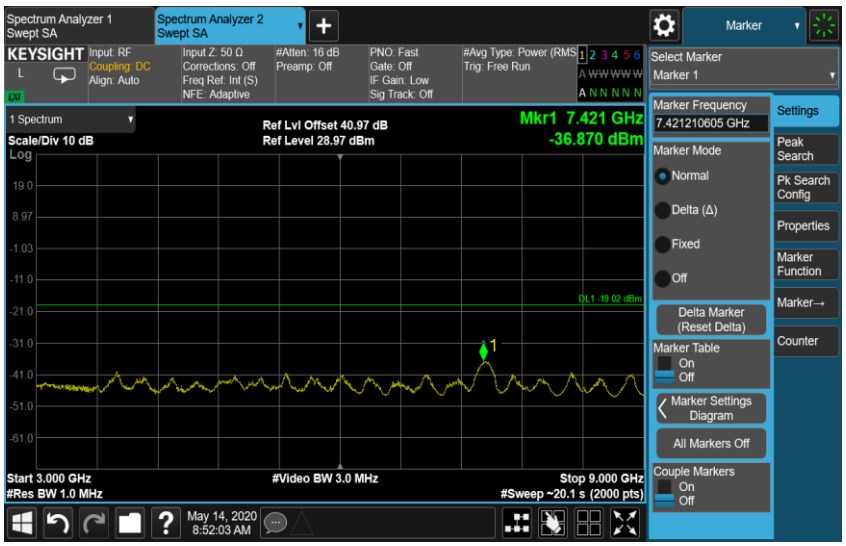
Port A, Channel Position B 3.0 MHz



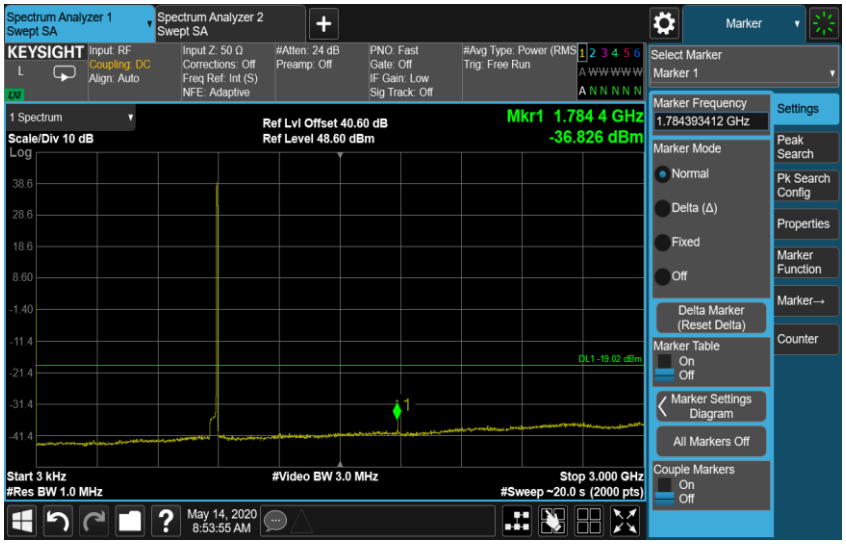


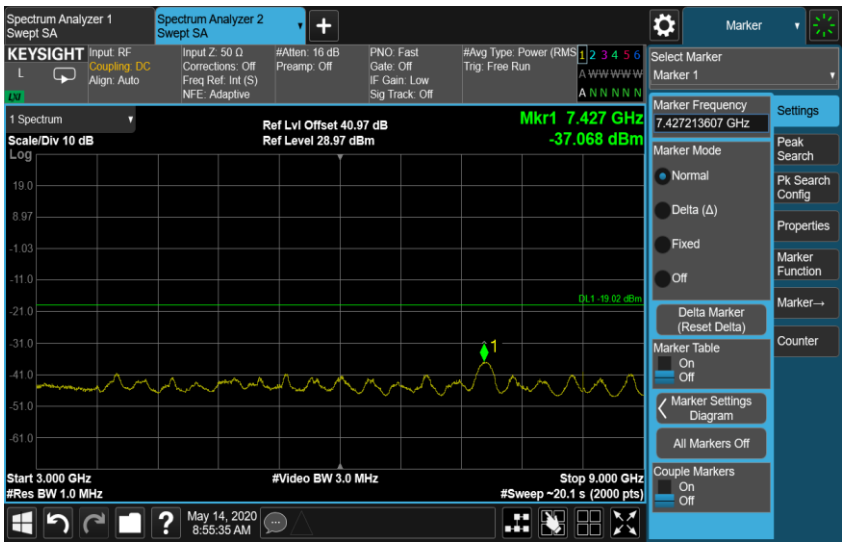
Port A, Channel Position M 3.0 MHz



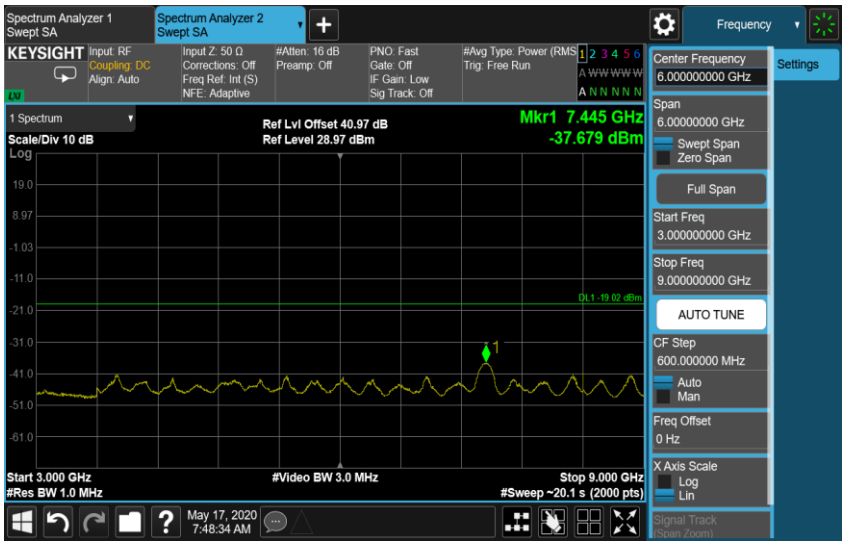


Port A, Channel Position T 3.0 MHz

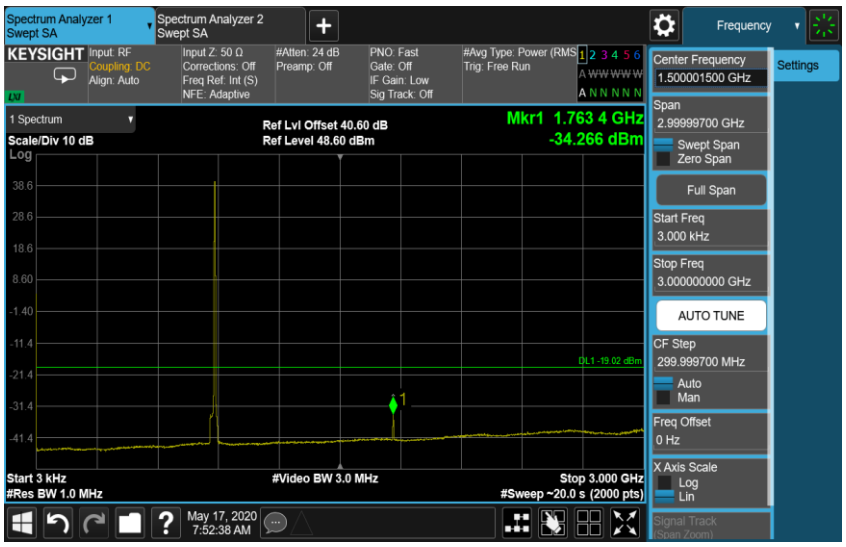


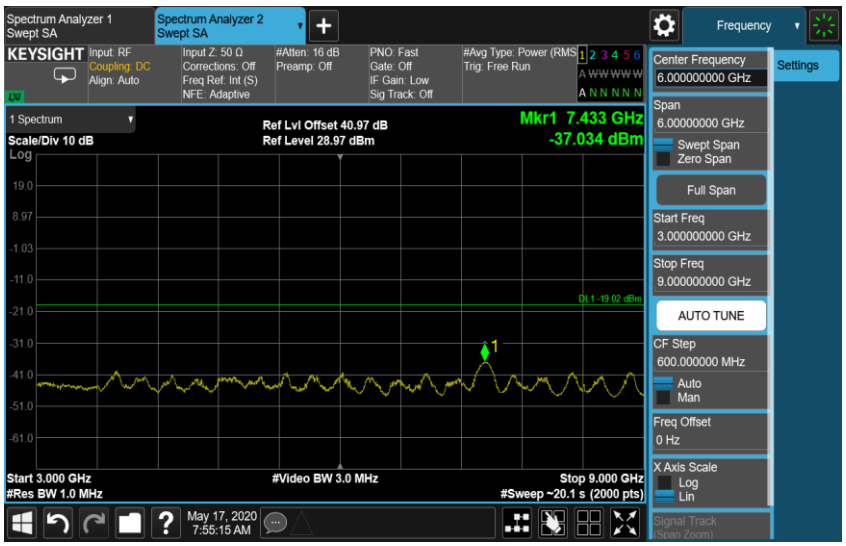


Port A, Channel Position B 5.0 MHz

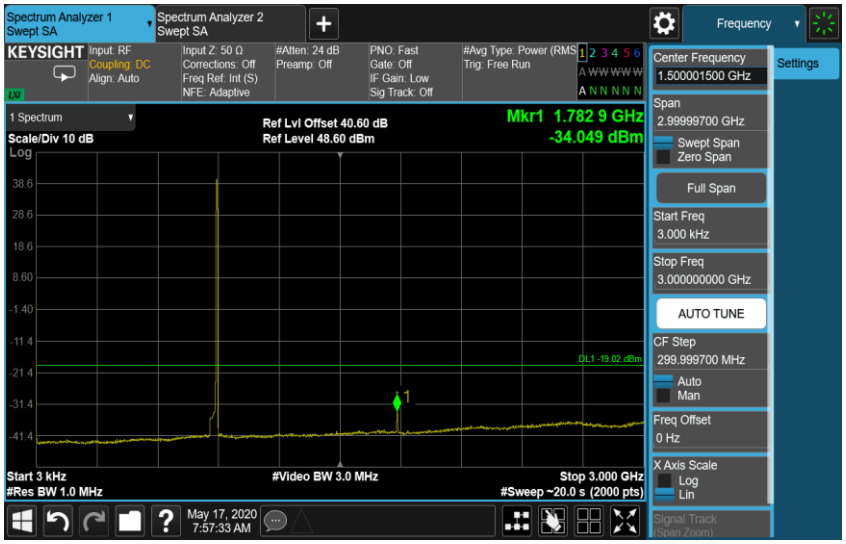


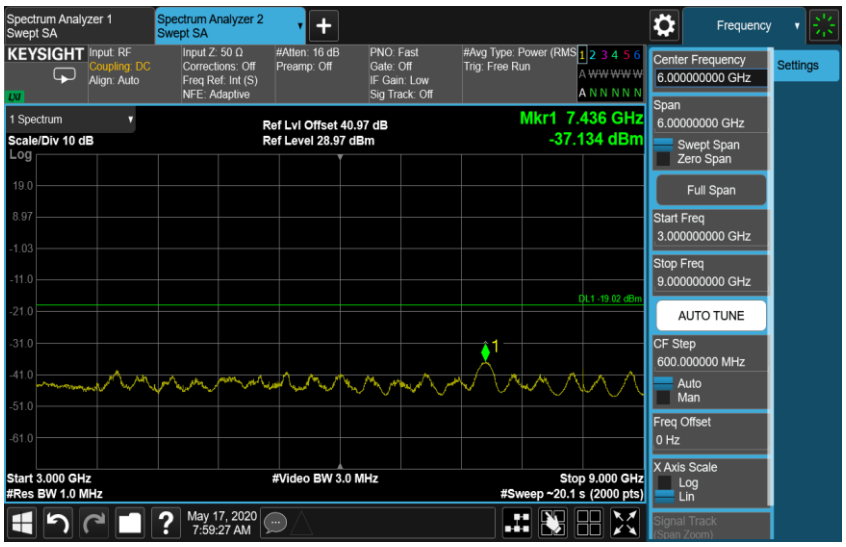
Port A, Channel Position M 5.0 MHz



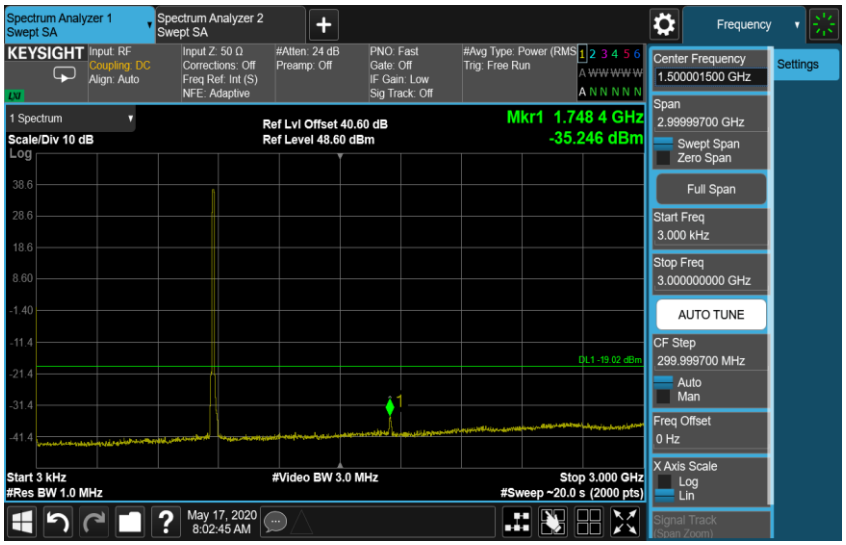


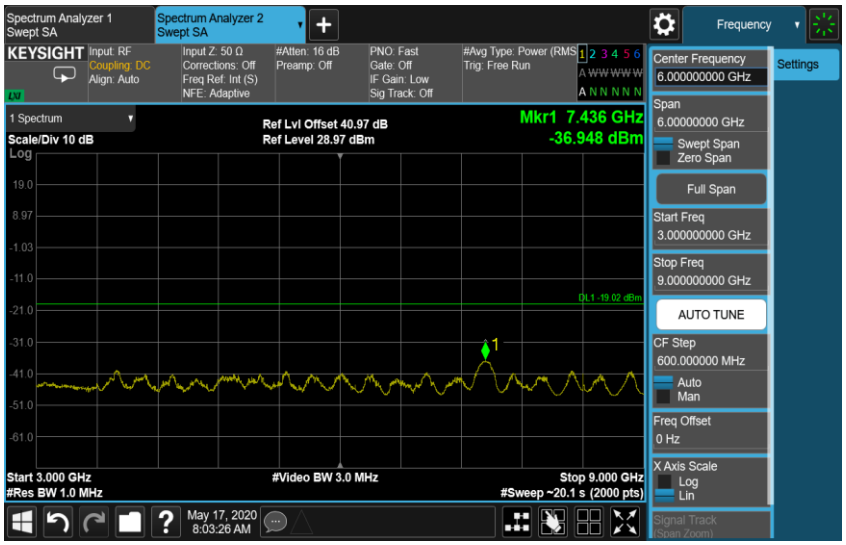
Port A, Channel Position T 5.0 MHz



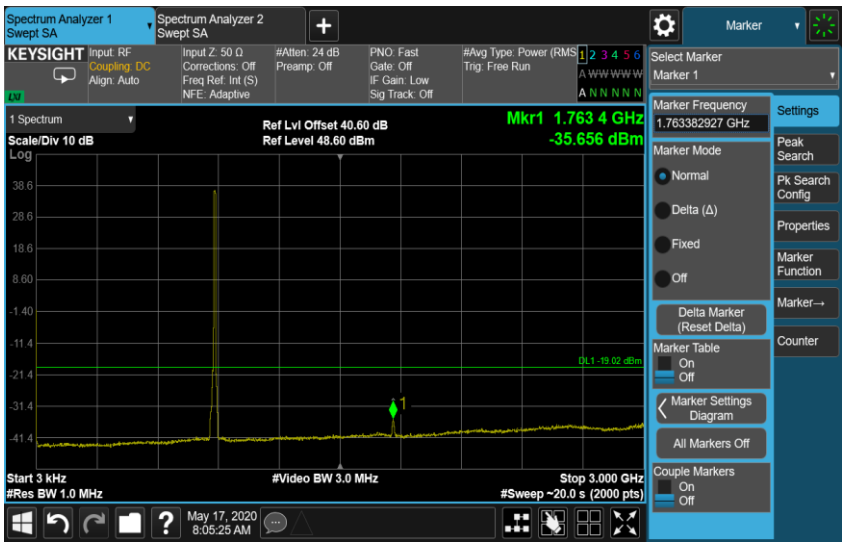


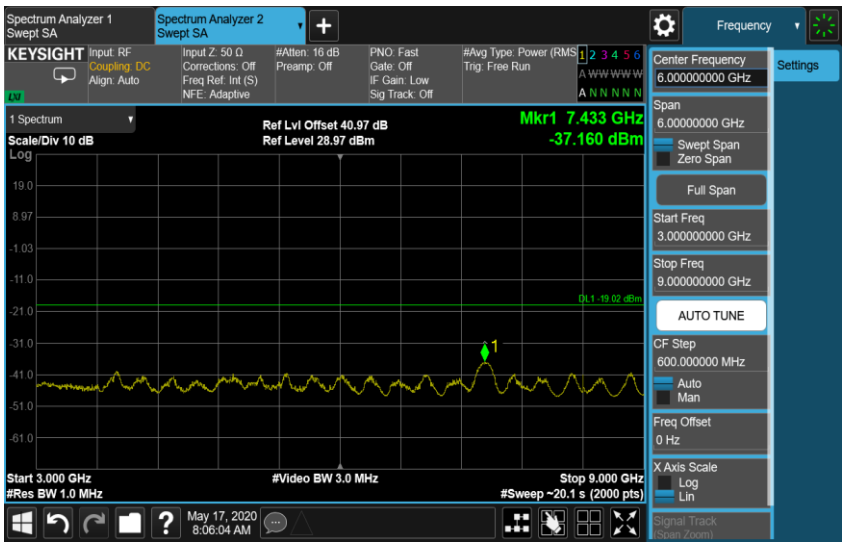
Port A, Channel Position B 10.0 MHz



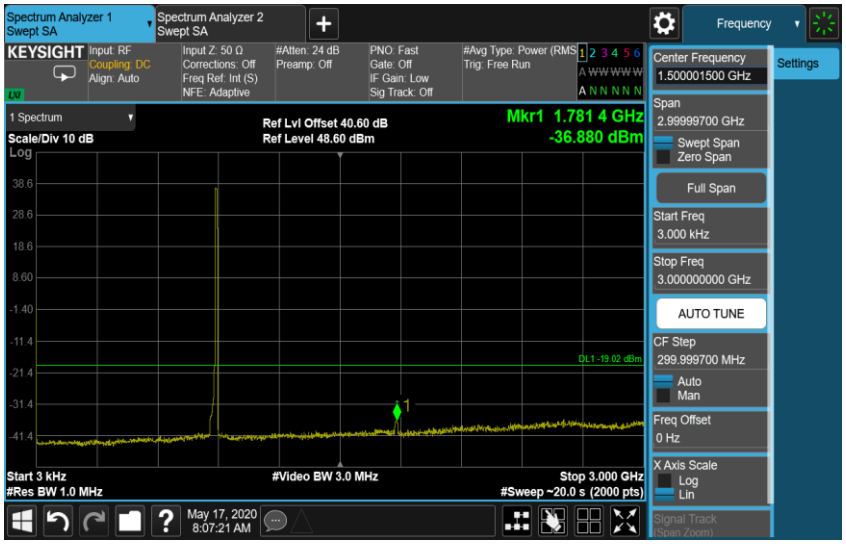


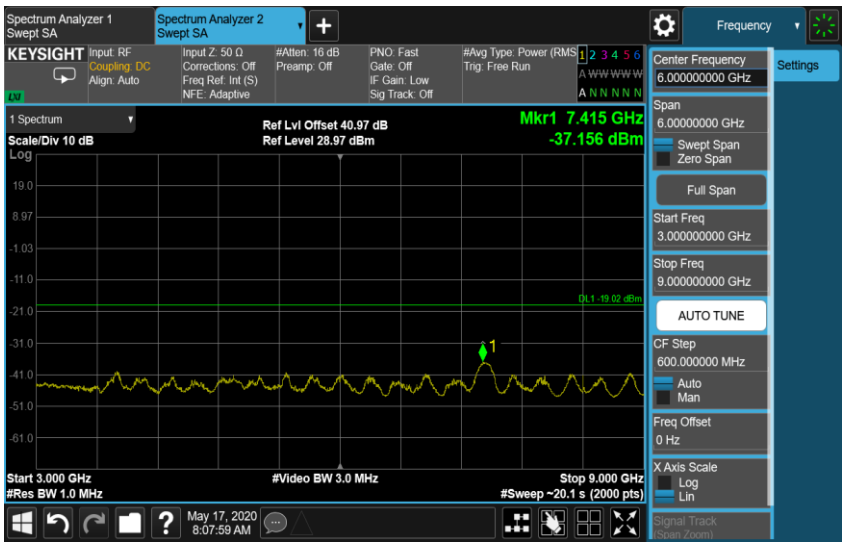
Port A, Channel Position M 10.0 MHz





Port A, Channel Position T 10.0 MHz





Port A, Channel Position B 15.0 MHz