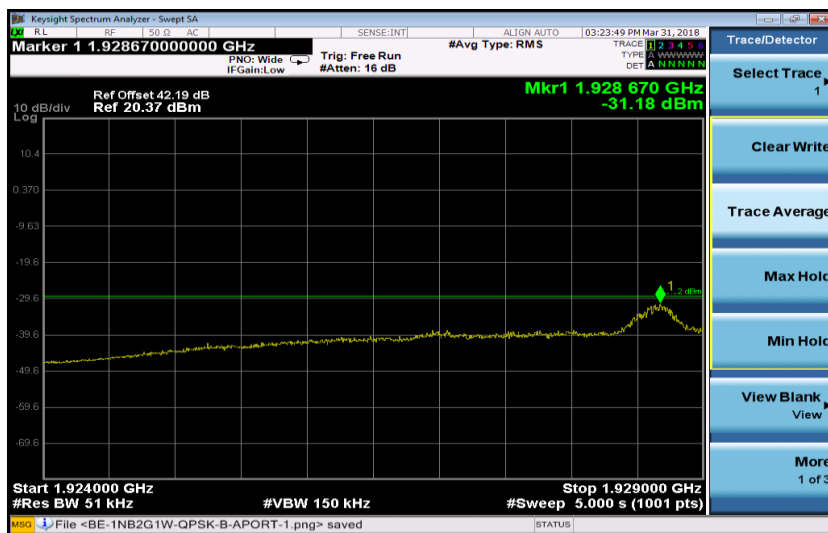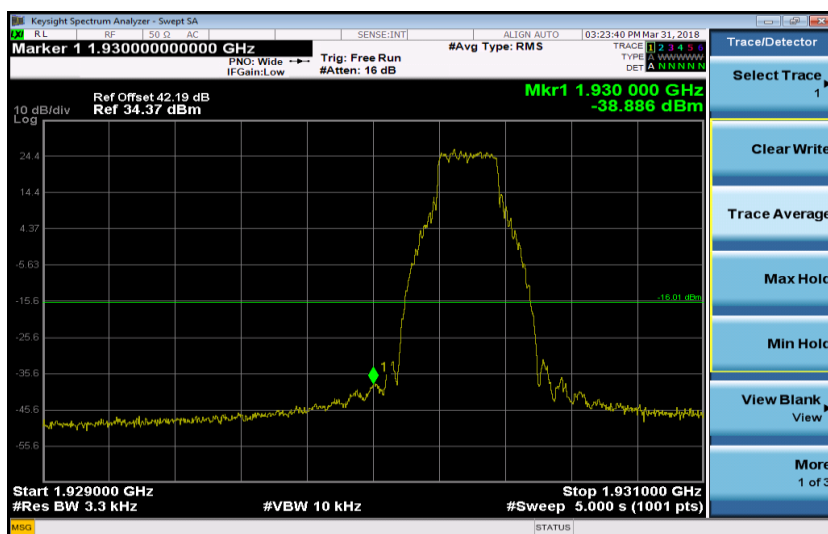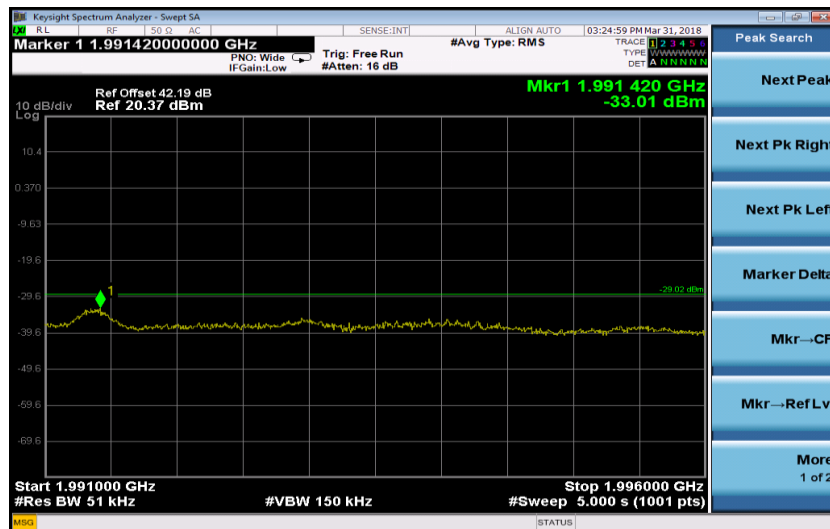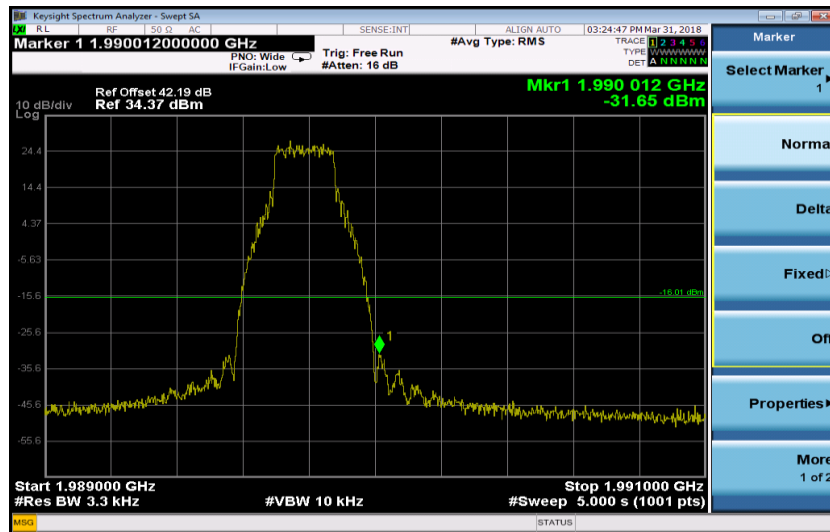Configuration NB-IoT+GSM+WCDMA-MIMO-MC-2-BE, (1NB QPSK+2GSM GMSK+1WCDMA QPSK)

Band Edge Frequency	Channel Bandwidth	RBW (KHz)	Limit (dBm)
Channel Position B 1930.0MHz	(NB) 250KHz, (G) 250KHz, (W) 5.0MHz	3.3	-16.01
Channel Position T 1990.0MHz	(NB) 250KHz, (G) 250KHz (W) 5.0MHz	3.3	-16.01

Port B, Channel Position B

Port B, Channel Position T

A.4 Conducted Spurious Emission

A.4.1 Reference
FCC CFR 47 Part 2, Clause 2.1051
FCC CFR 47 Part 24, Clause 24.238 (a)
RSS-133, Clause 6.5

A.4.2 Method of measurement
In accordance with FCC CFR 47 Part 24, Clause 24.238, 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 20GHz. The resolution bandwidth of 1MHz was employed for frequency band 3KHz to 20GHz. The spectrum analyzer detector was set to RMS.

For MIMO mode configurations, the limit was adjusted with a correction of -6.02dB [10Log4] by using the Measure and Add 10Log(N) dB technique according to FCC KDB 662911 D01 Multiple Transmitter Output accounting for simultaneous transmission from antenna ports RF A,B,C and D. 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 $43 + 10\log(P)$ dB.
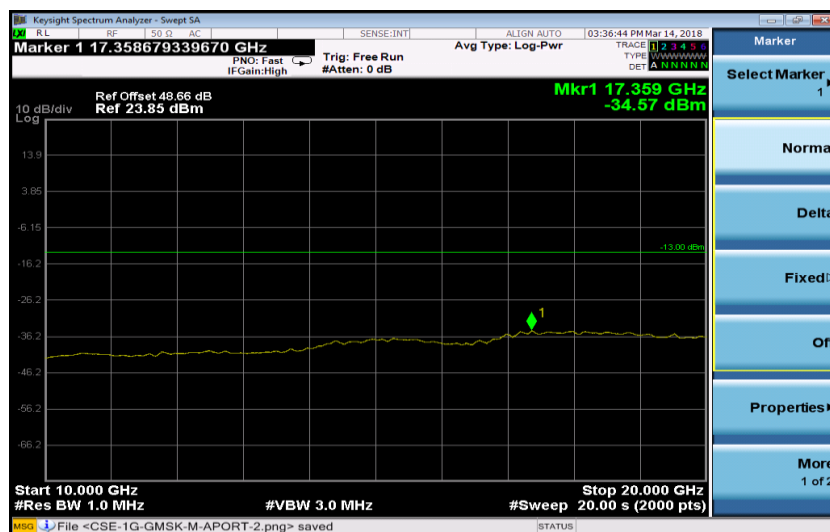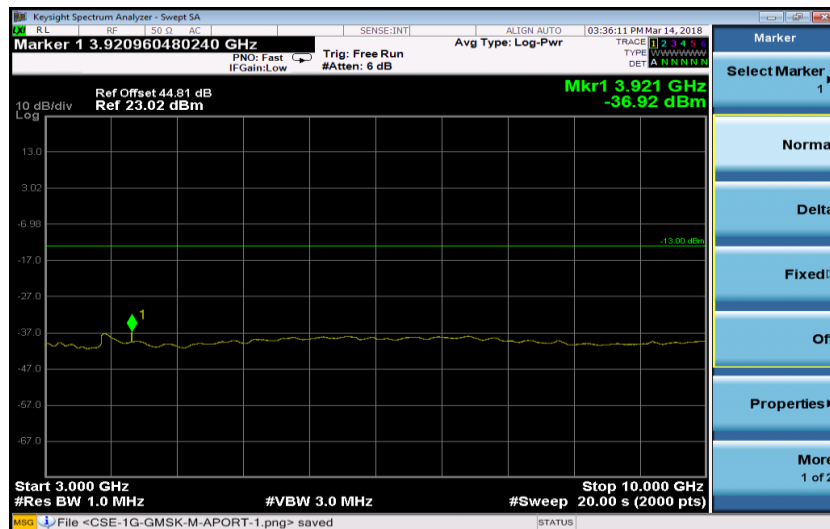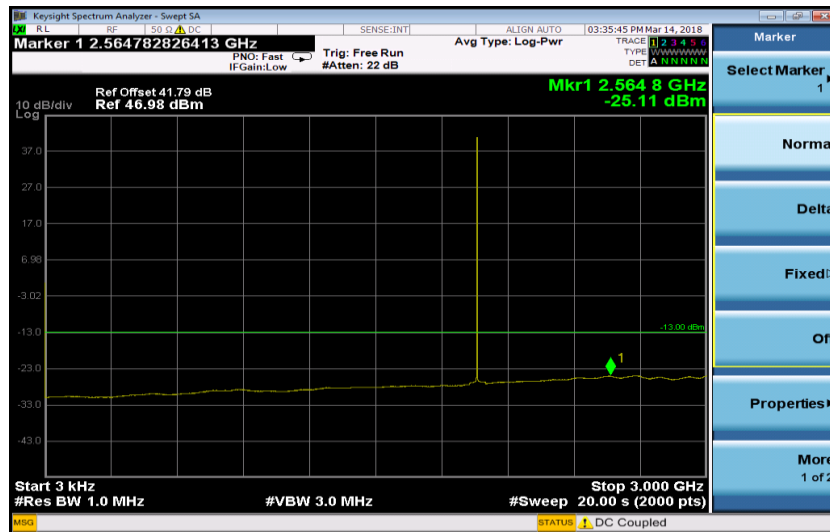
A.4.4 Measurement results
Configuration GSM-1C GMSK

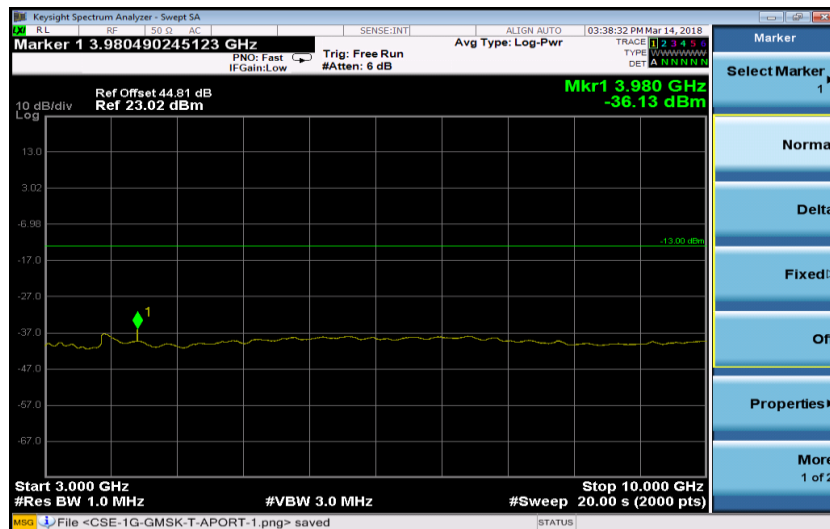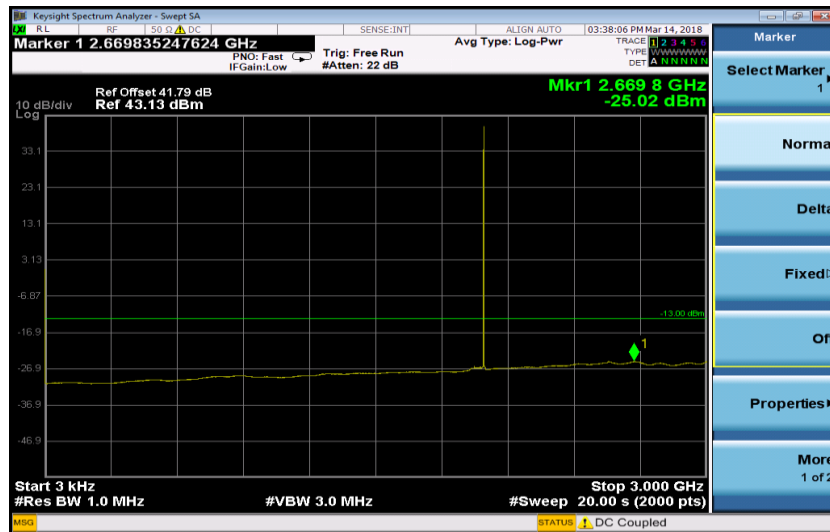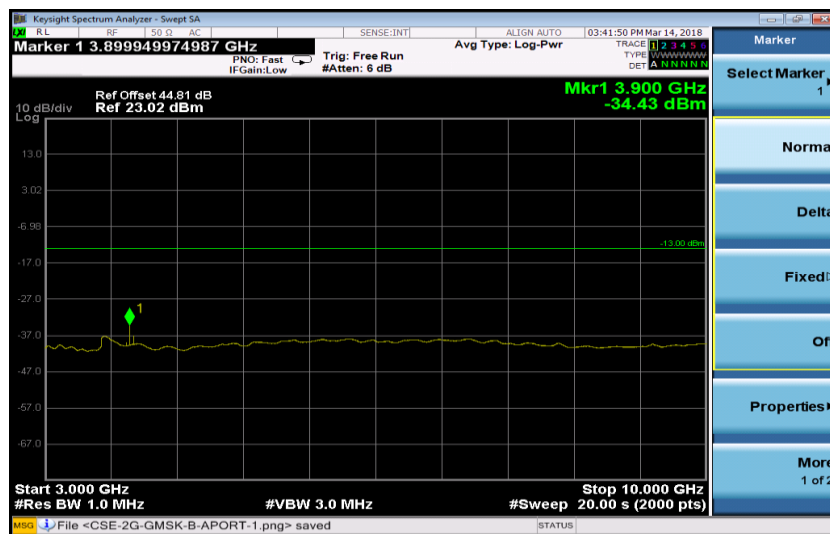| Channel Bandwidth	RBW (MHz)	Limit (dBm)
250 KHz	1.0	-13.00

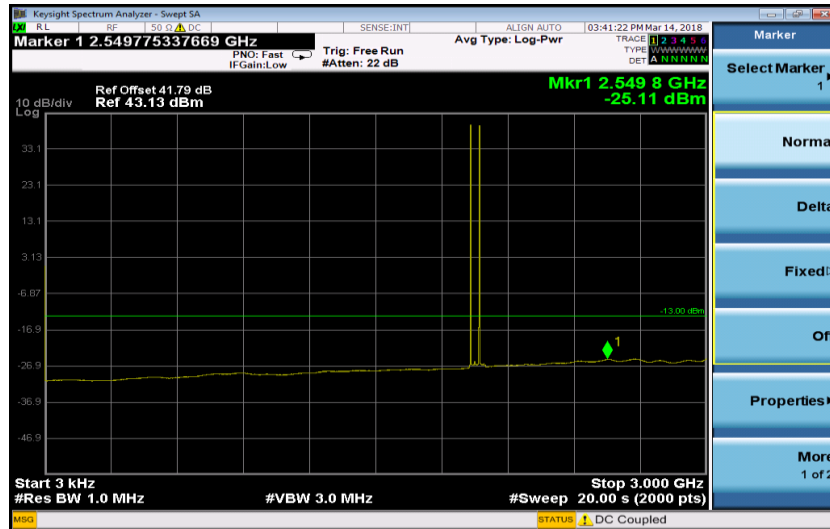Port B, Channel Position B
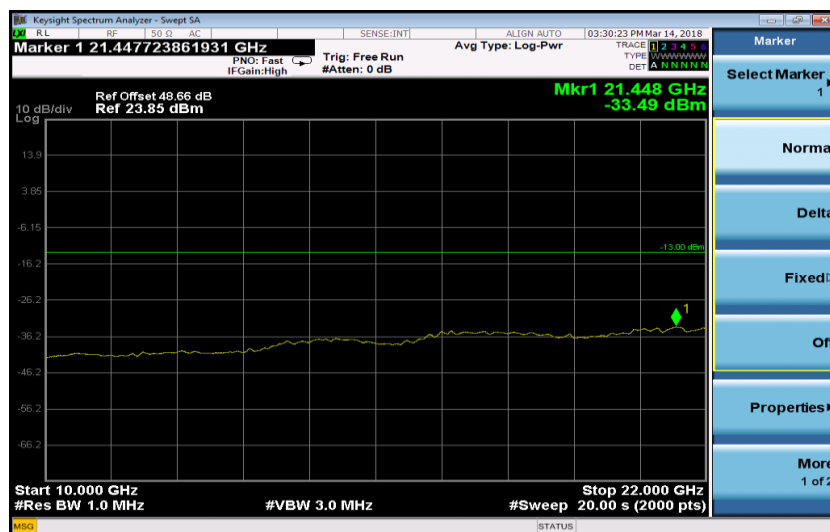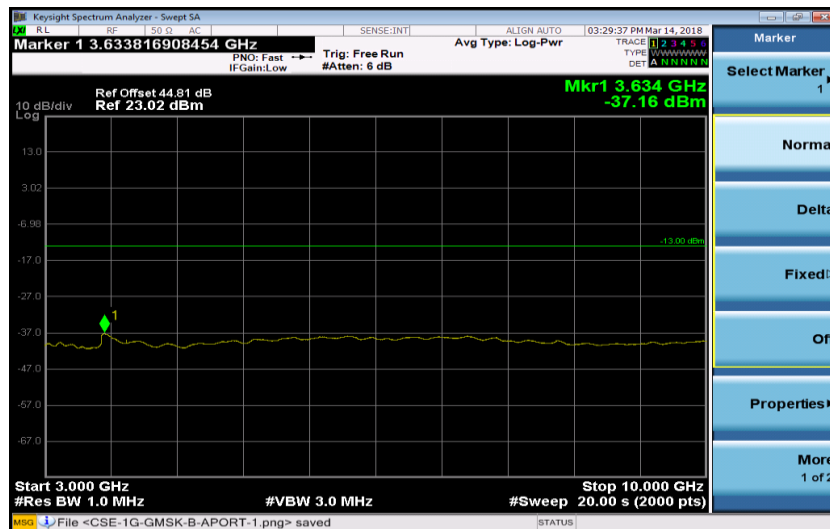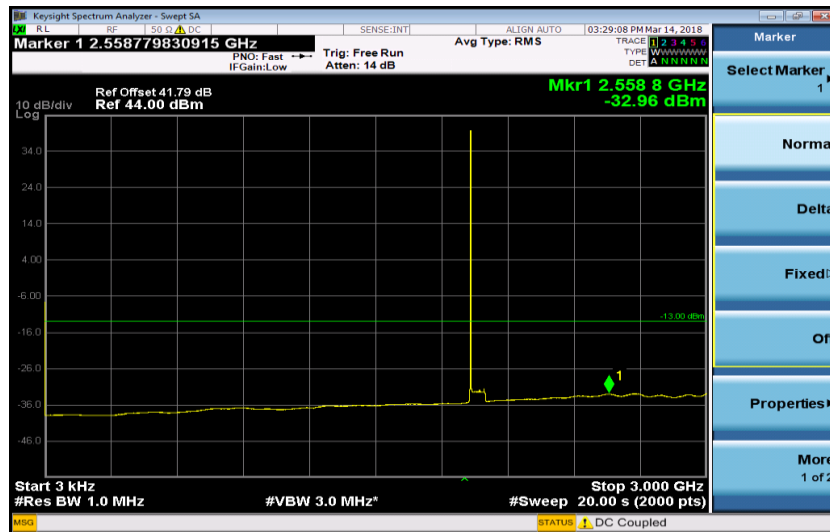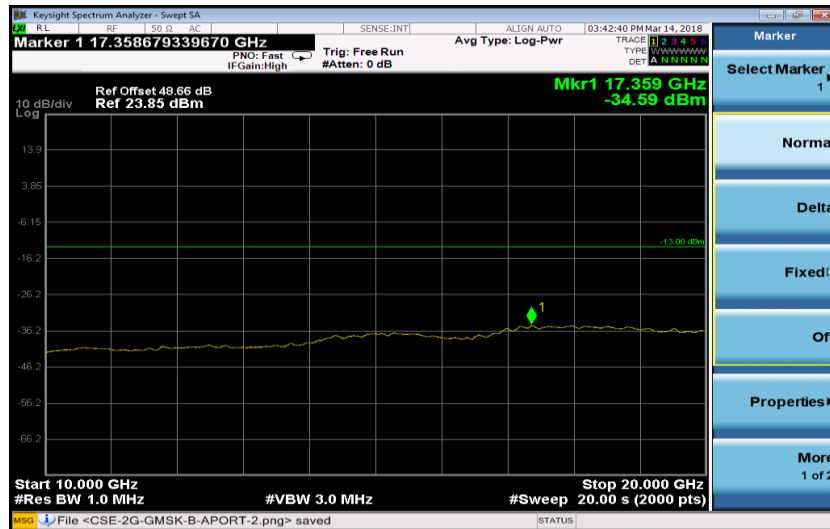
Port B, Channel Position M

Port B, Channel Position T
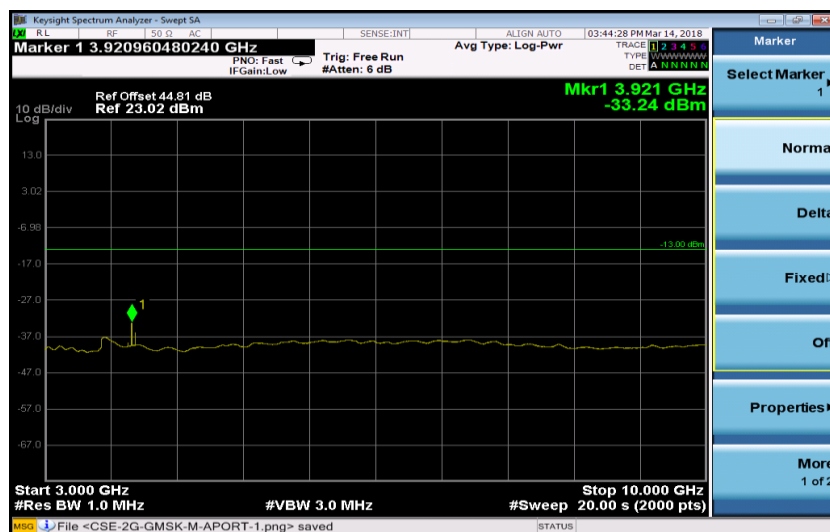
Configuration GSM-2C GMSK

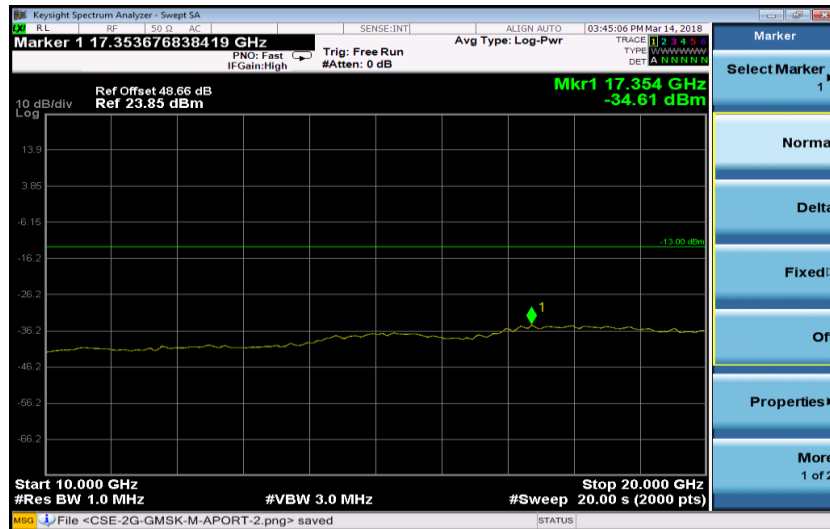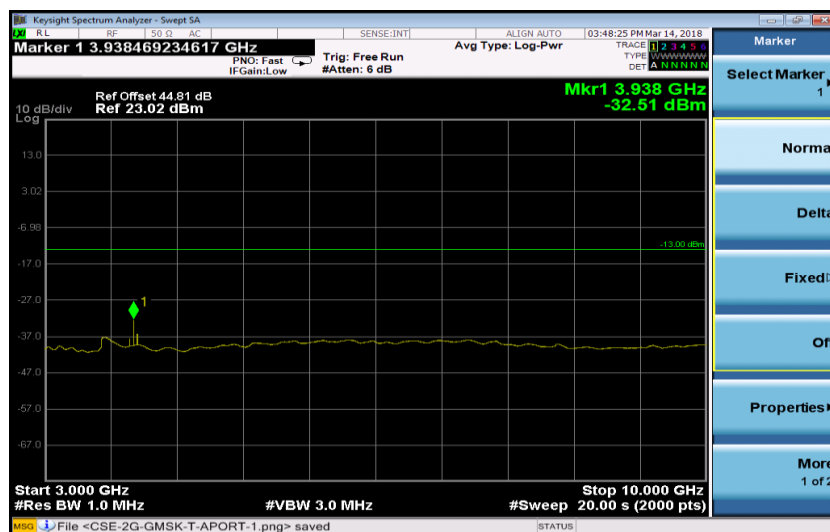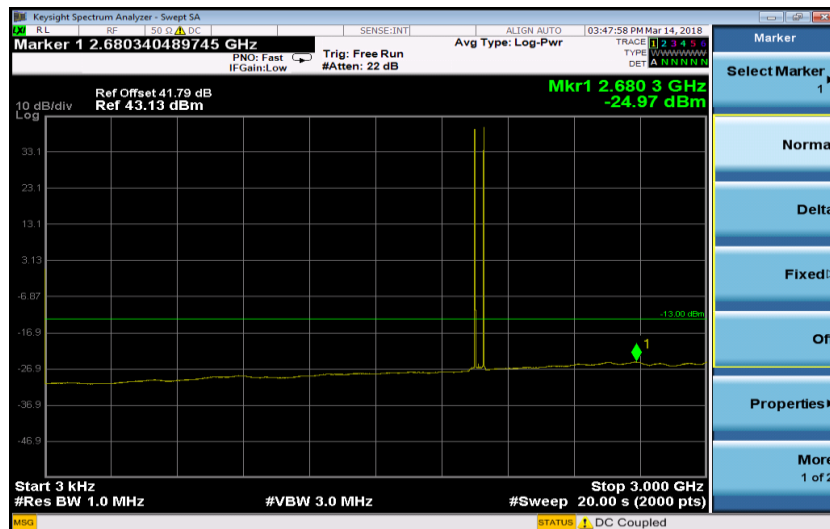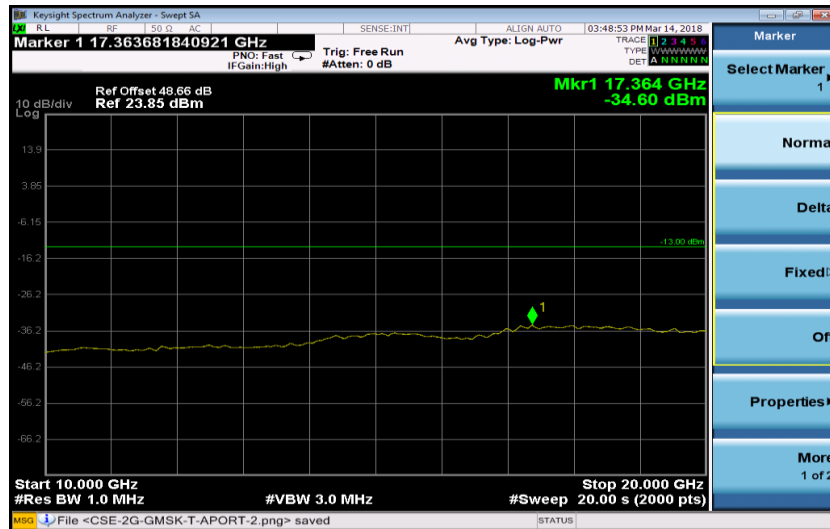| Channel Bandwidth	RBW (MHz)	Limit (dBm)
250 KHz	1.0	-13.00

Port B, Channel Position B
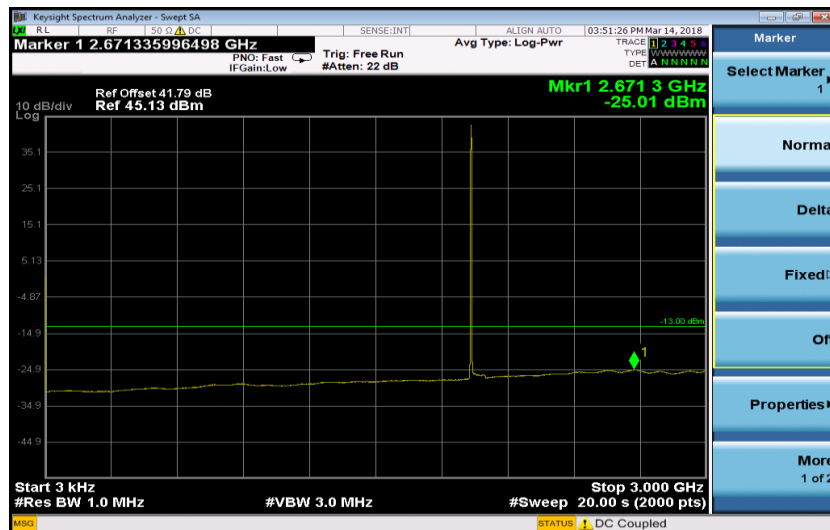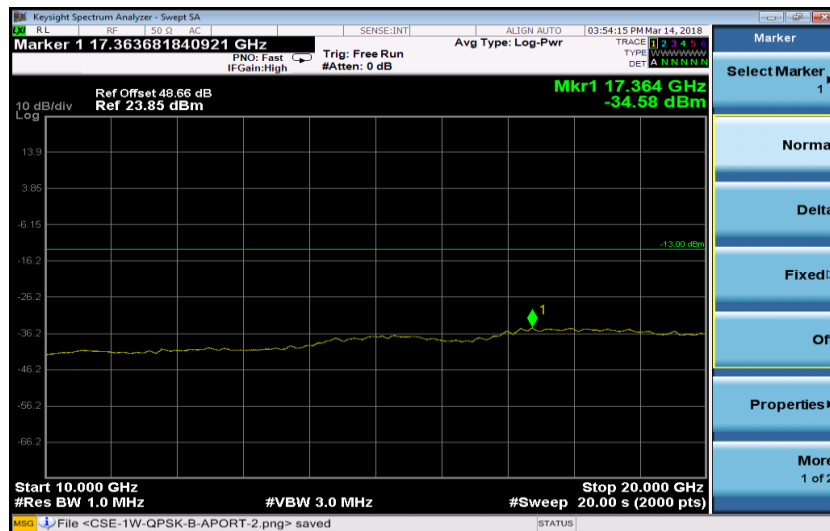
Port B, Channel Position M
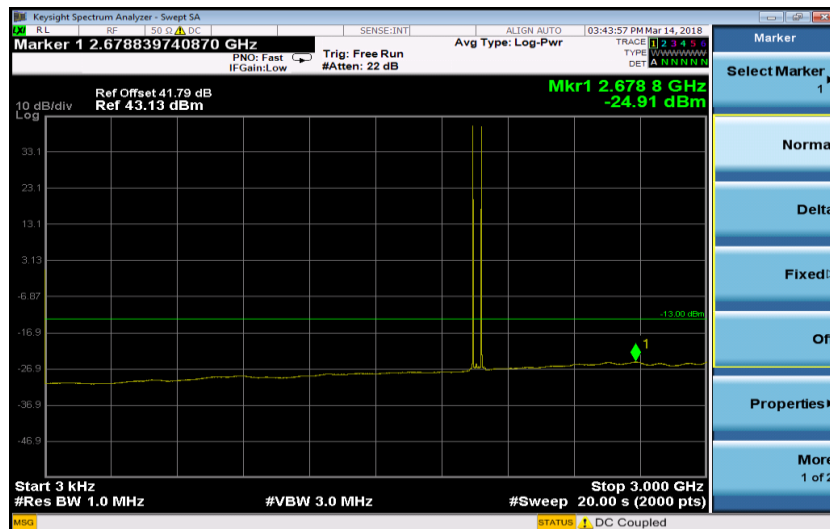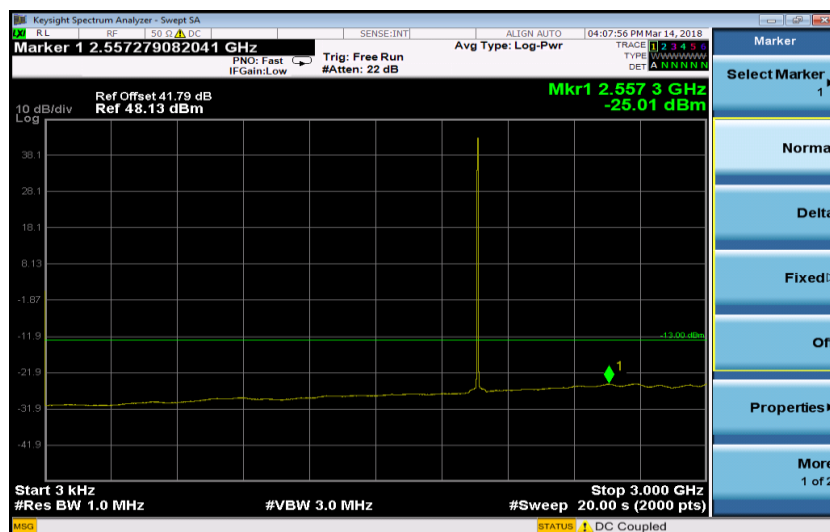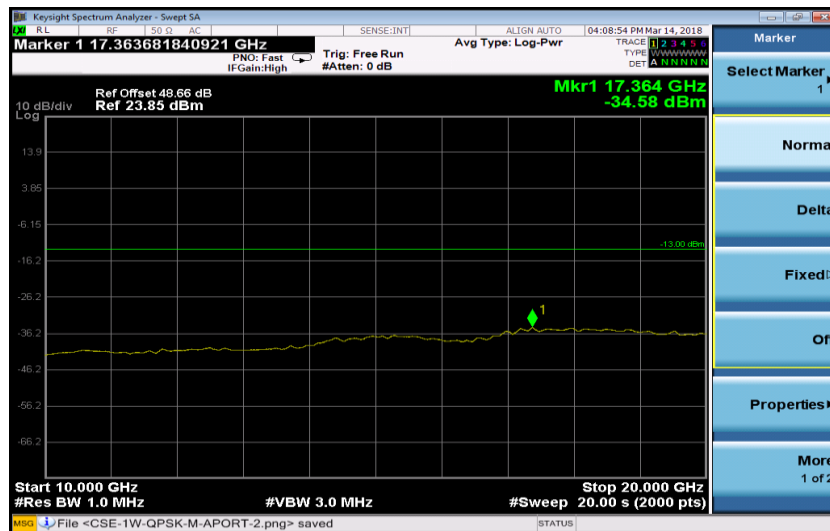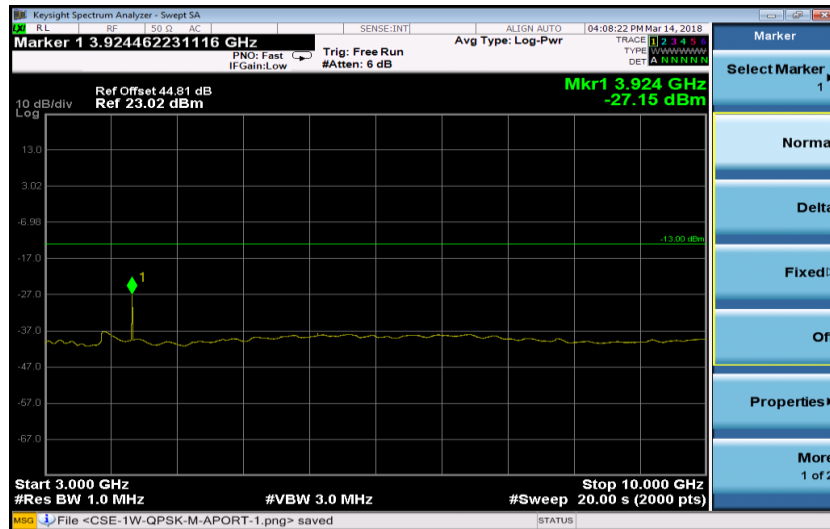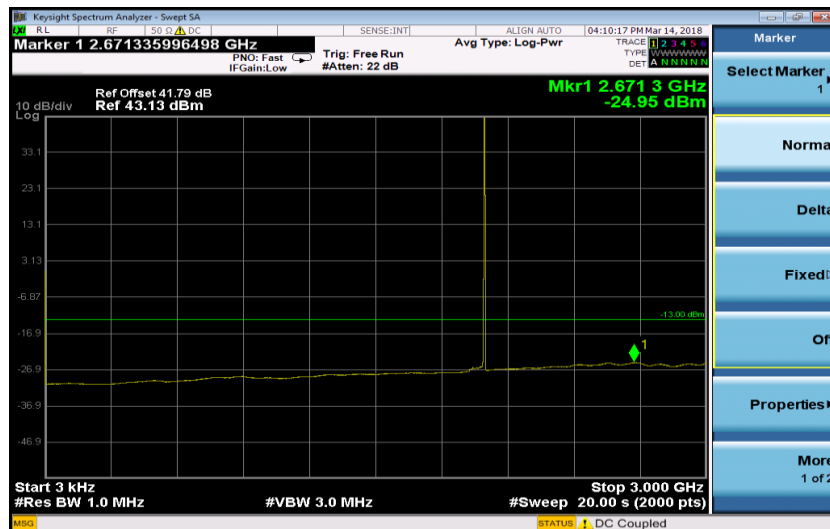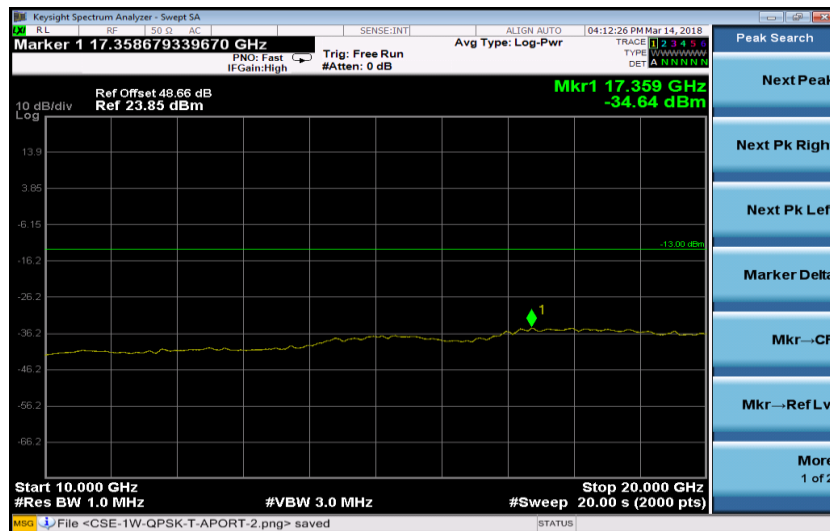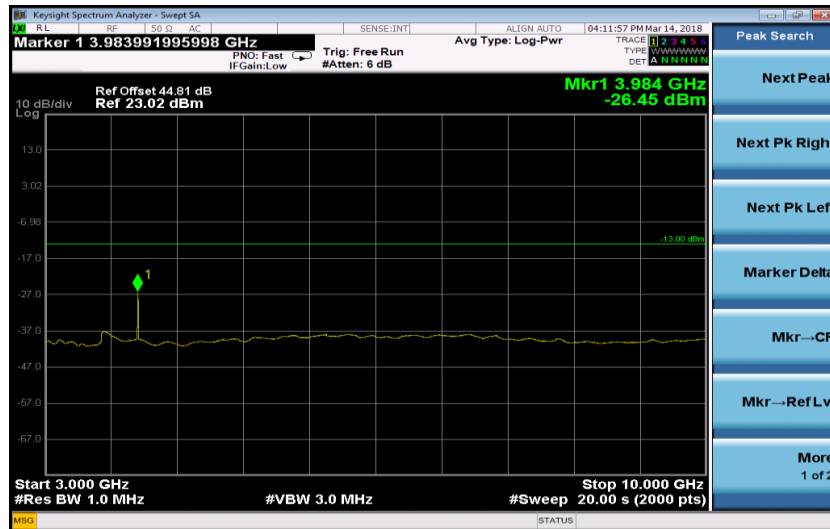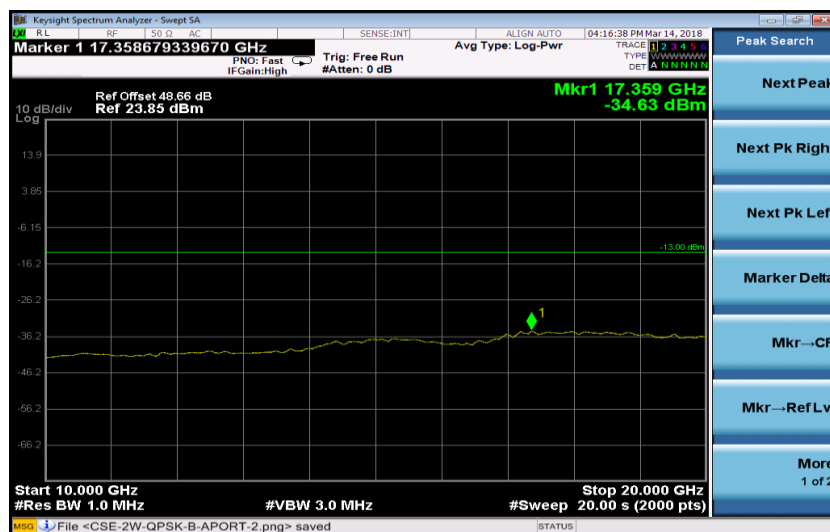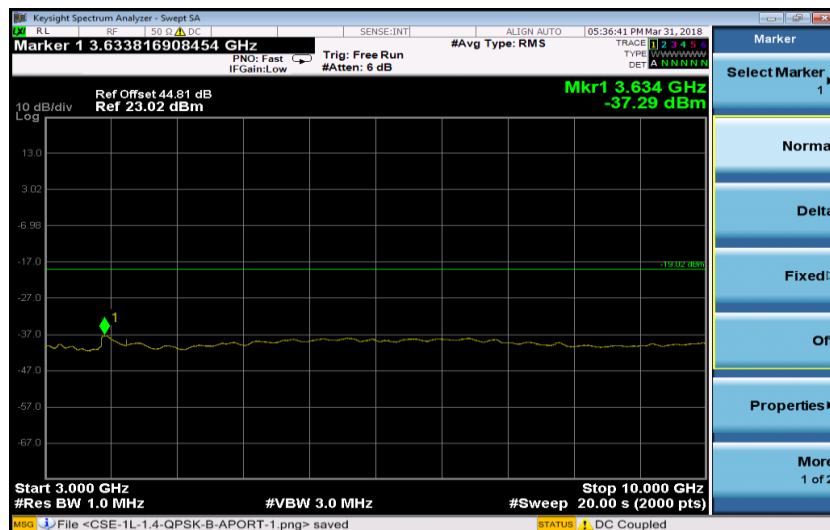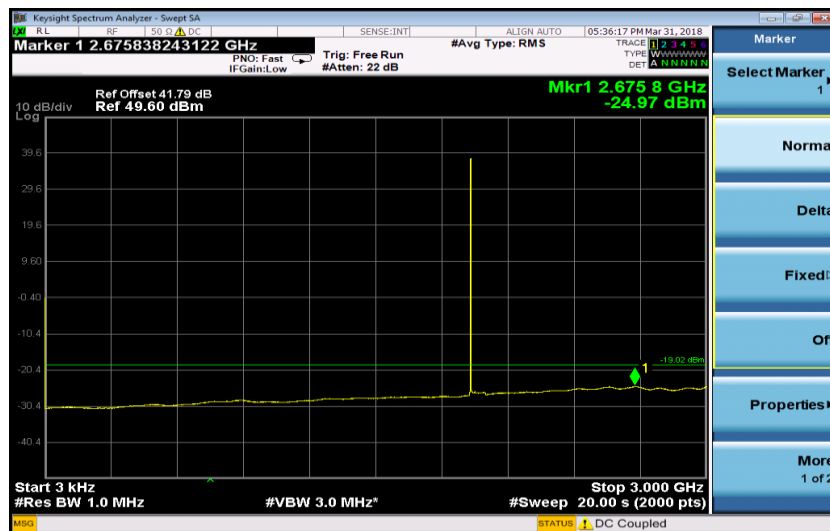
Port B, Channel Position T

Configuration WCDMA-1C QPSK

Channel Bandwidth	RBW (MHz)	Limit (dBm)
5.0 MHz	1.0	-13.00

Port B, Channel Position B
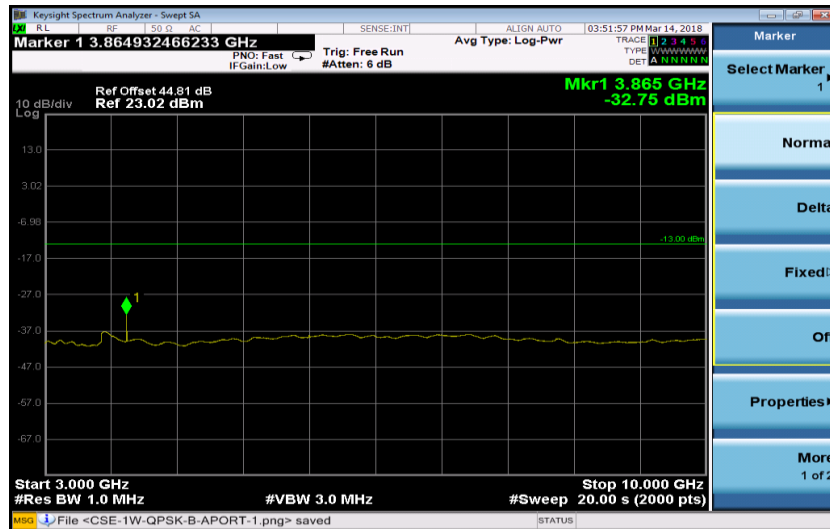
Port B, Channel Position M

Port B, Channel Position T

Configuration WCDMA-2C QPSK

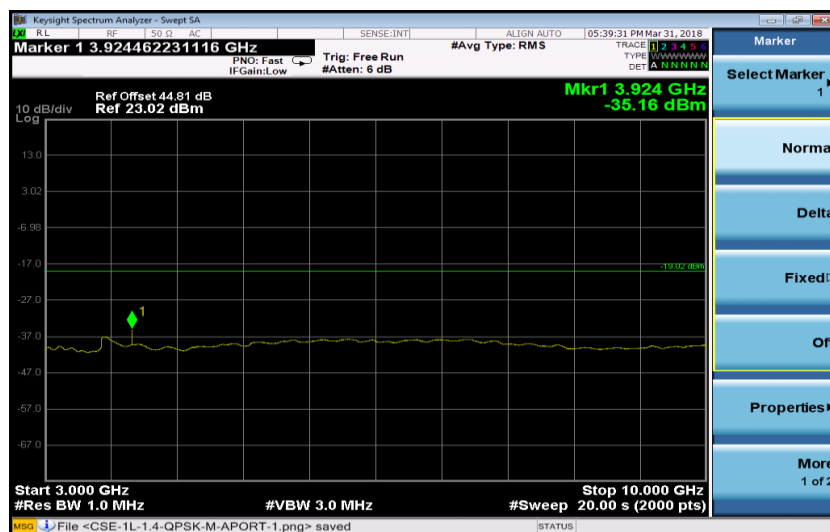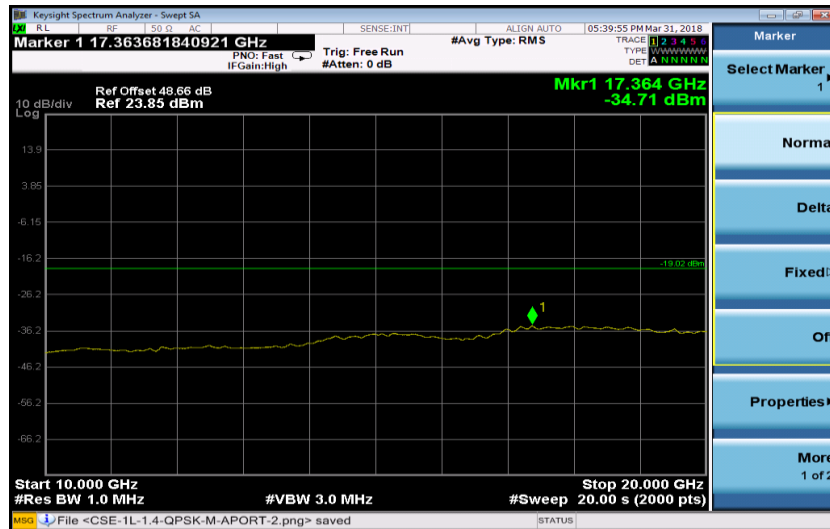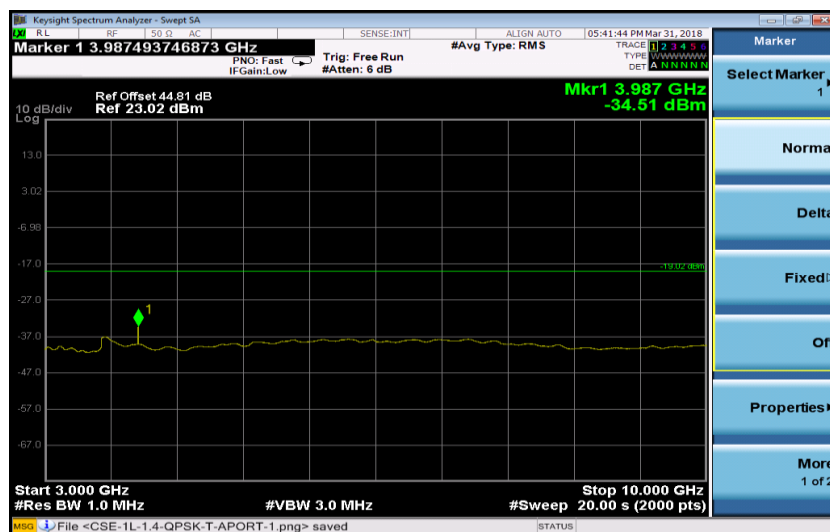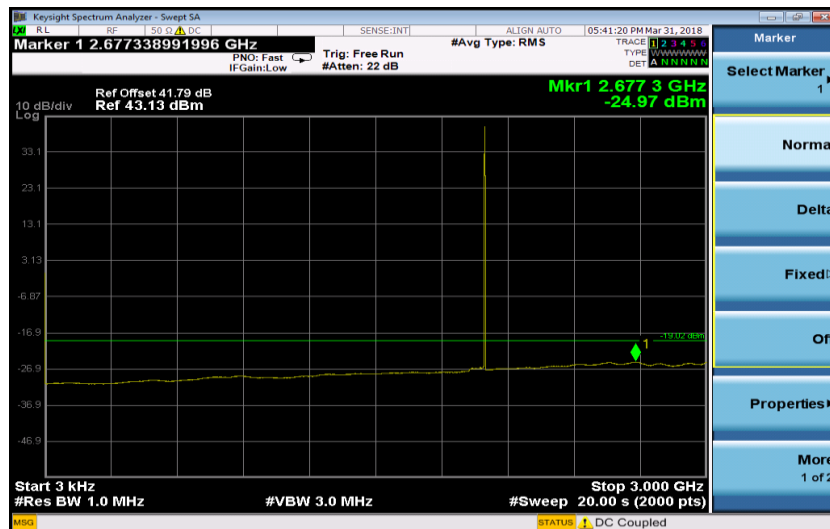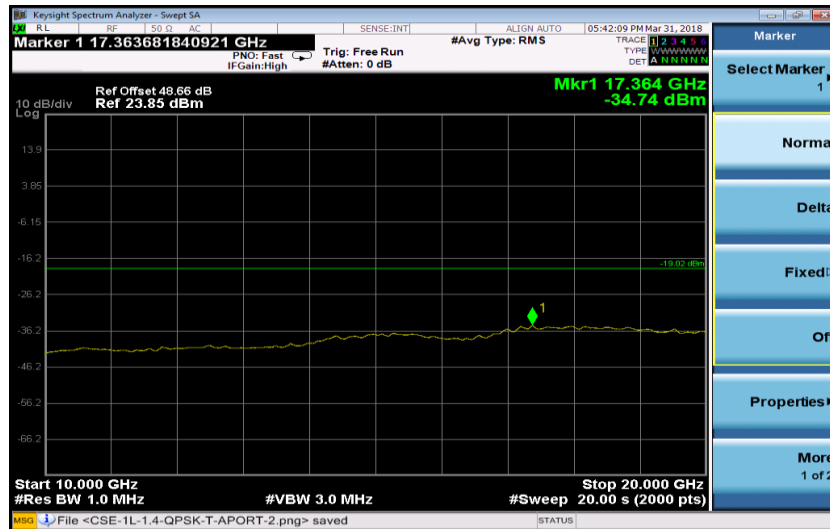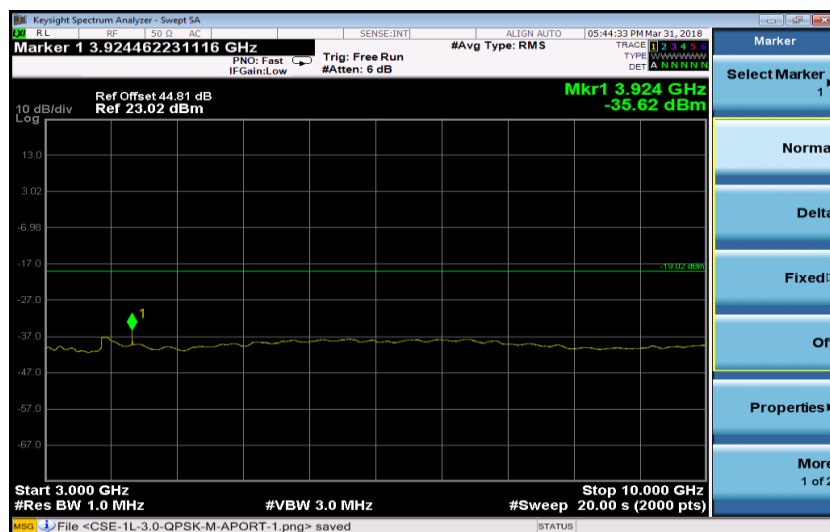| Channel Bandwidth	RBW (MHz)	Limit (dBm)
5.0 MHz	1.0	-13.00

Port B, Channel Position M
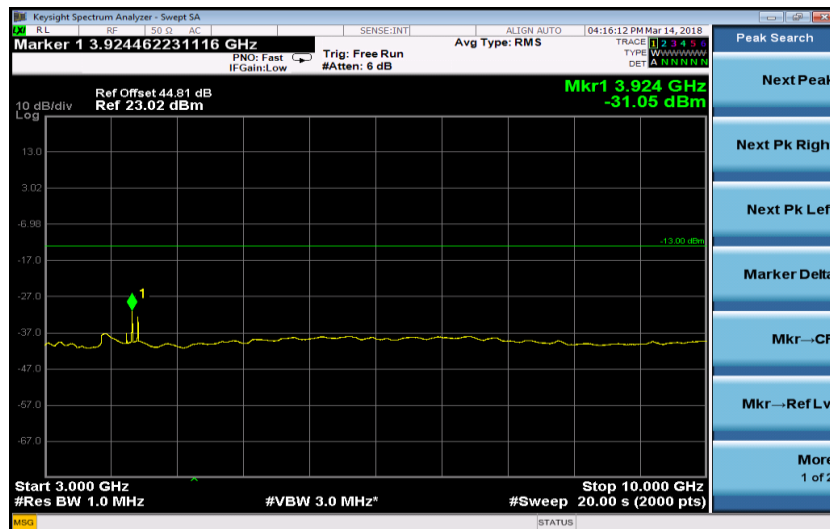
Configuration LTE-MIMO-1C QPSK

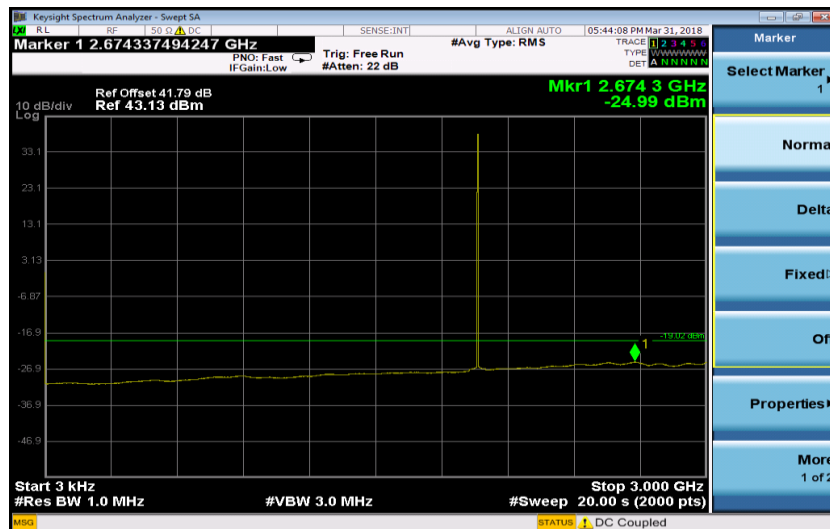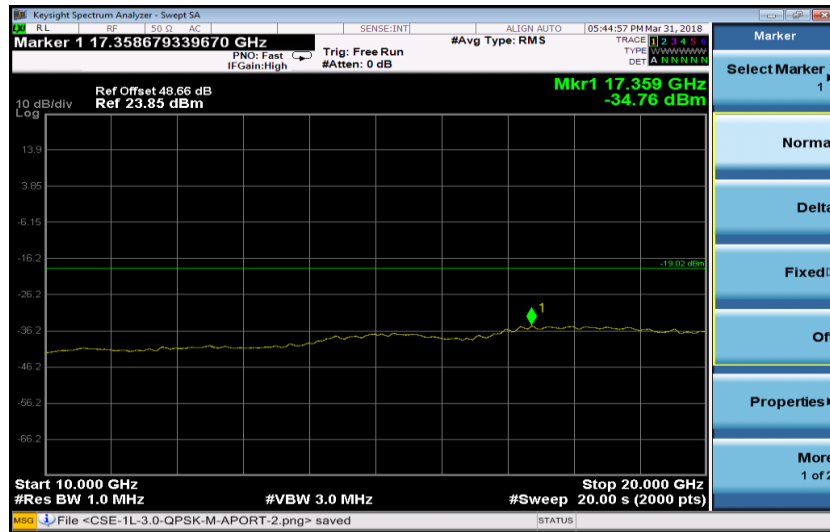| Channel Bandwidth	RBW (MHz)	Limit (dBm)
1.4 MHz	1.0	-19.02
3.0 MHz	1.0	-19.02
5.0 MHz	1.0	-19.02
10.0 MHz	1.0	-19.02

Port B, Channel Position B 1.4 MHz
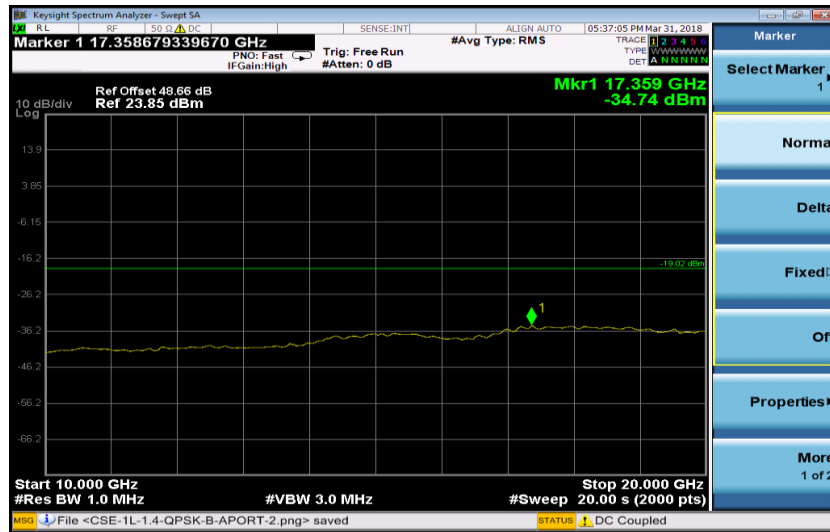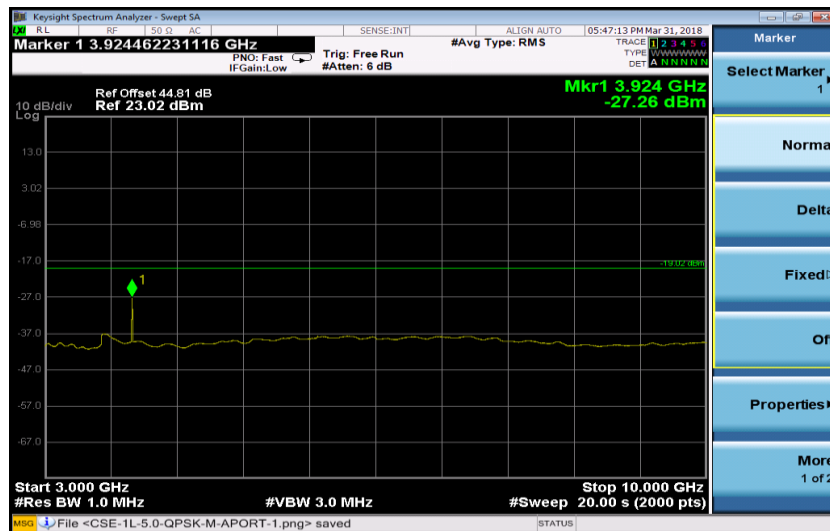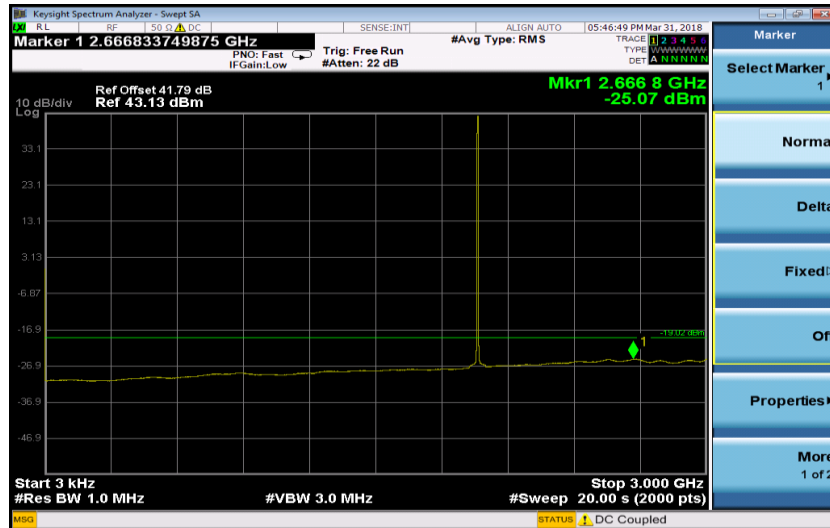
Port B, Channel Position M 1.4 MHz
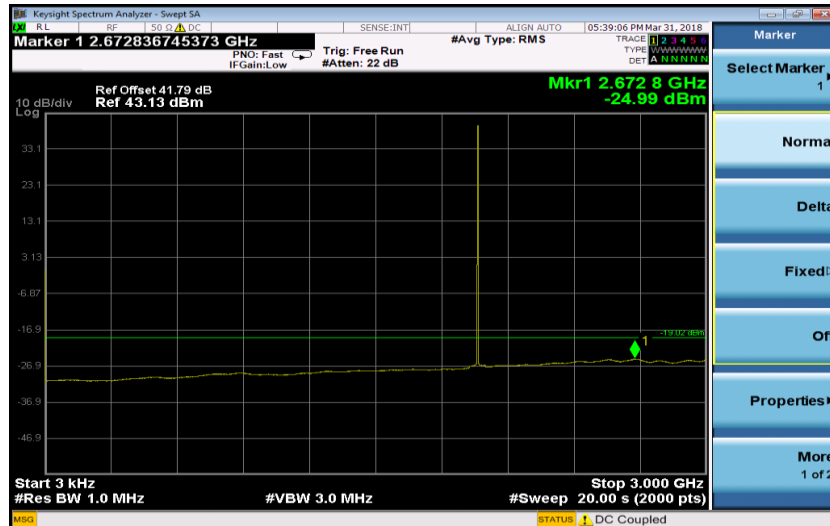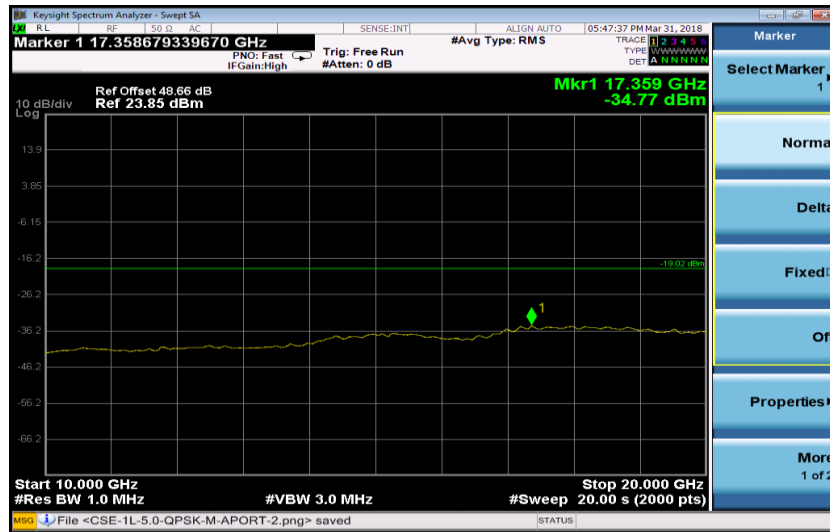
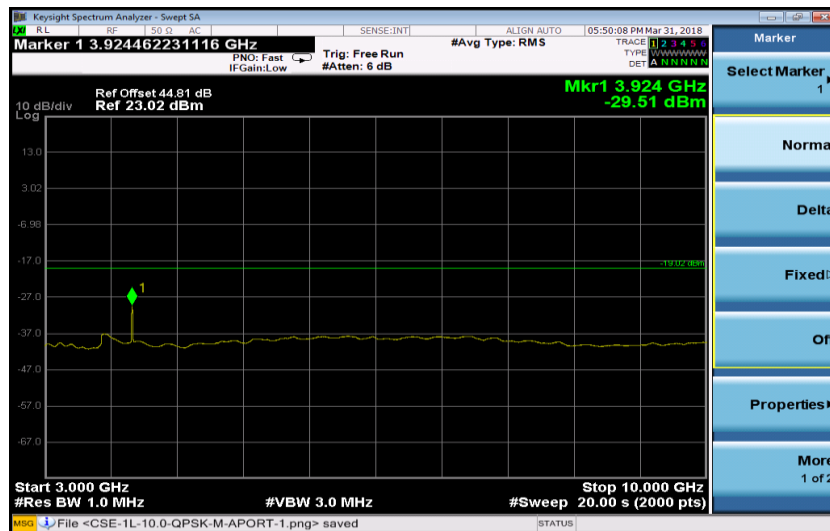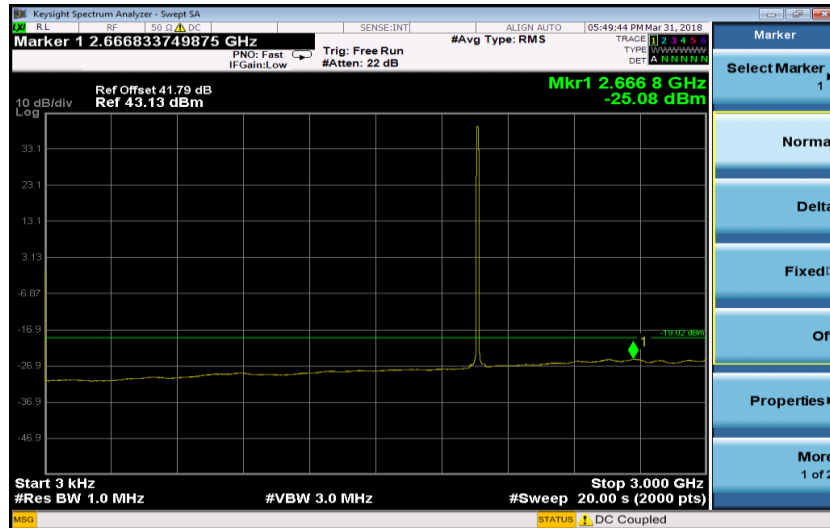Port B, Channel Position T 1.4 MHz

Port B, Channel Position M 3.0 MHz
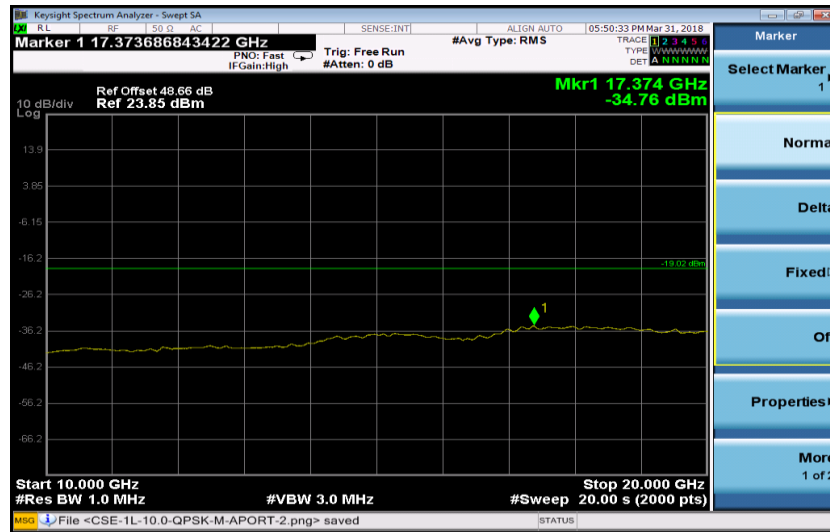
Port B, Channel Position M 5.0 MHz
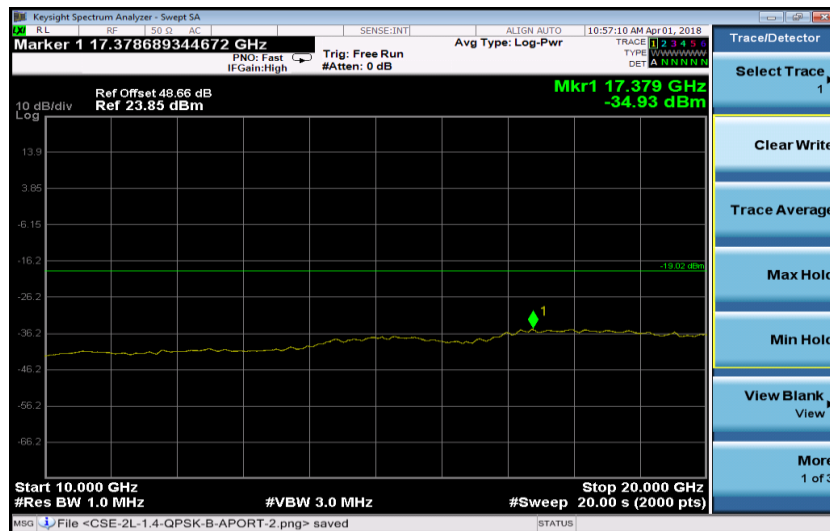
Port B, Channel Position M 10.0 MHz

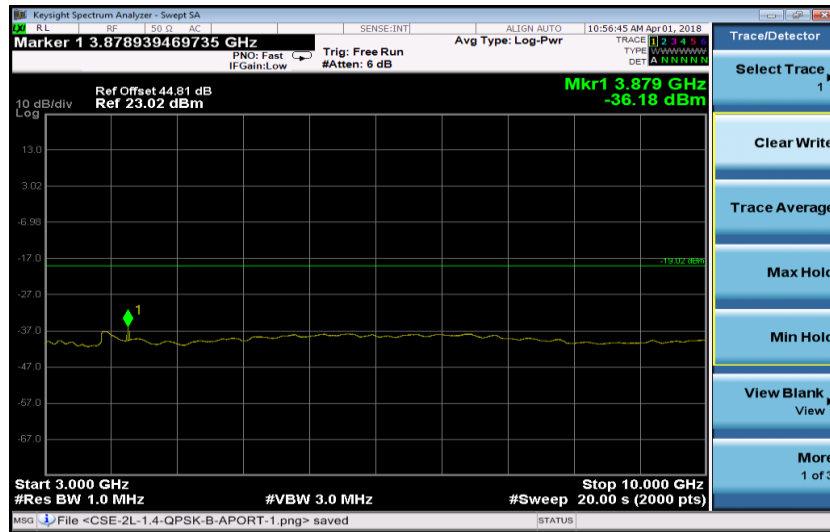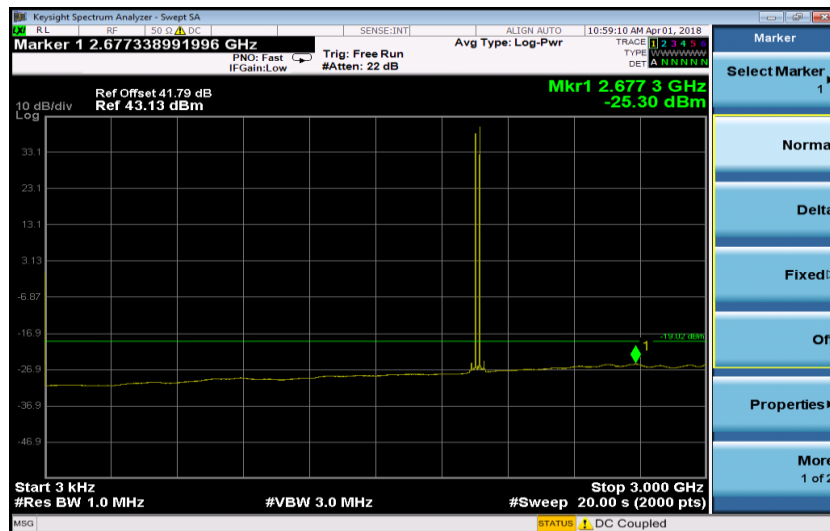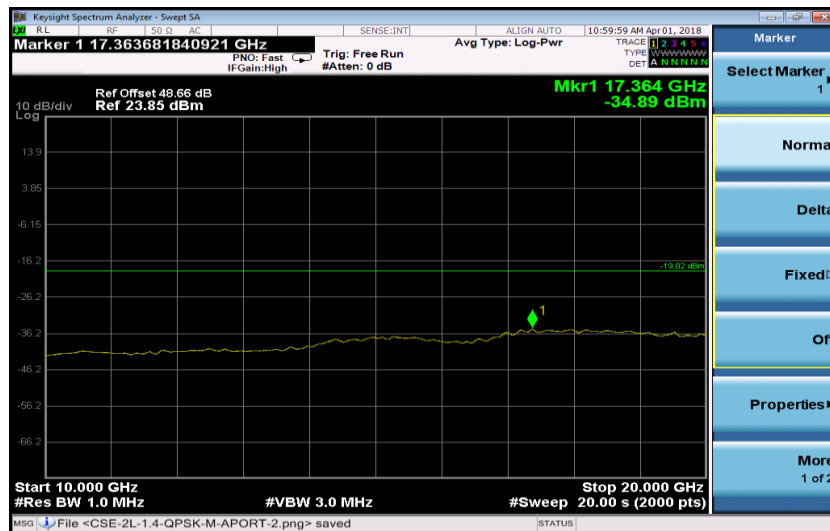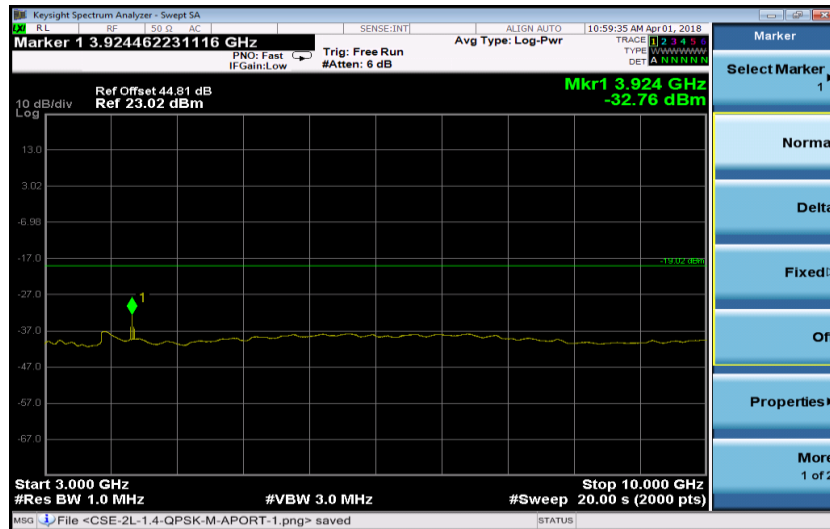Configuration LTE-MIMO-2C QPSK

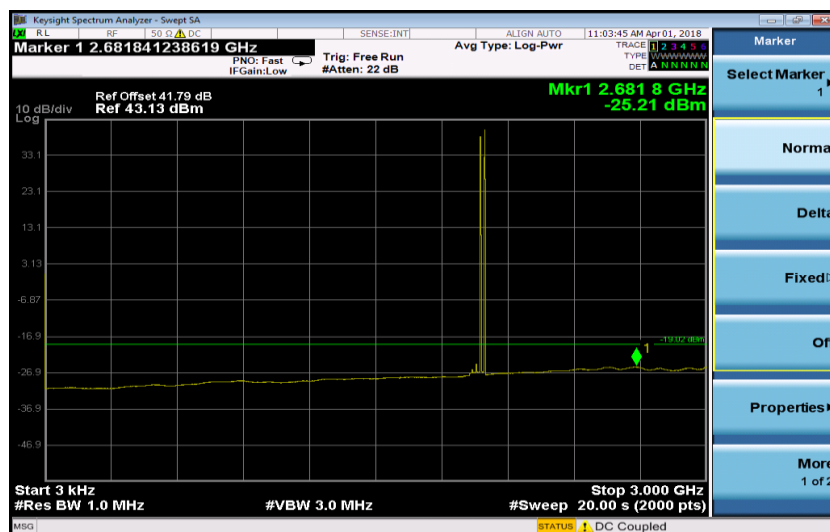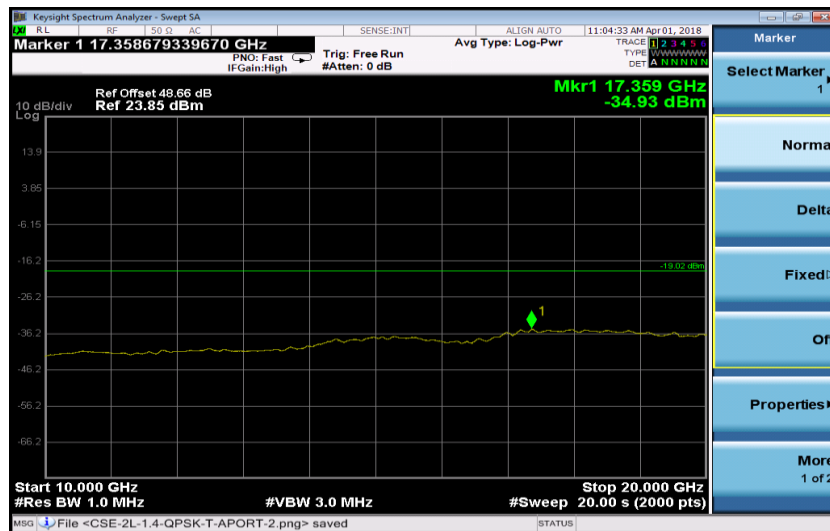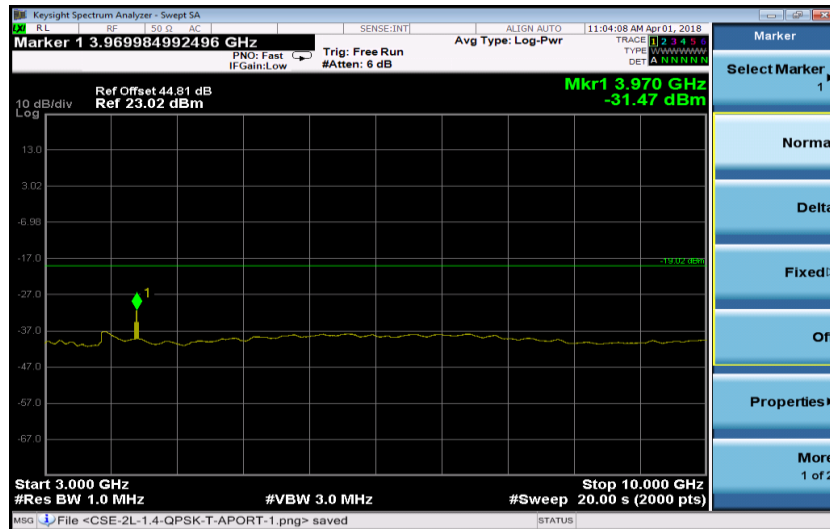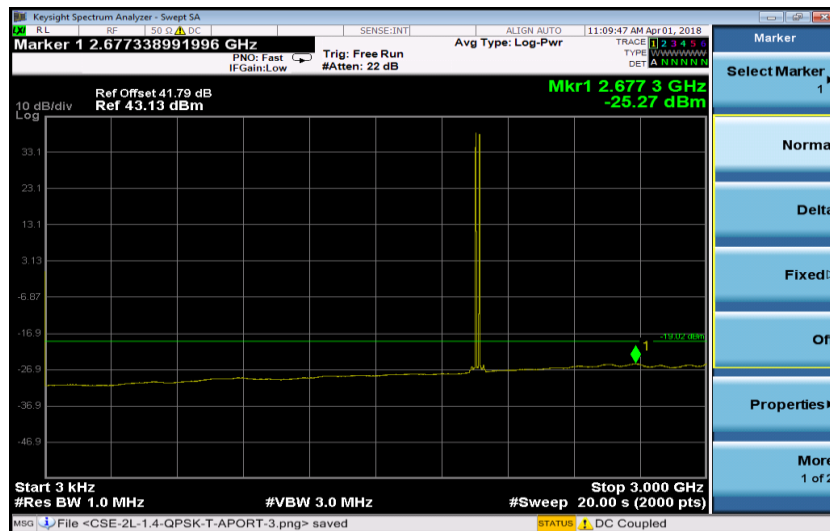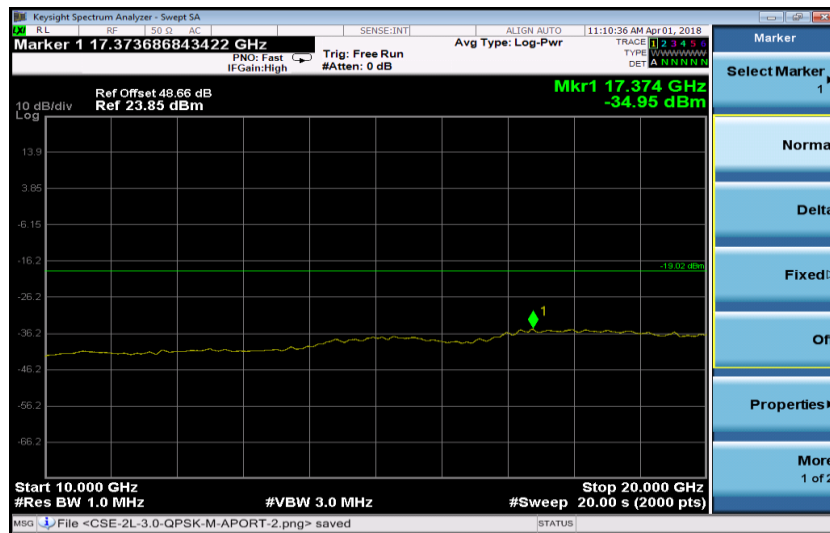| Channel Bandwidth	RBW (MHz)	Limit (dBm)
1.4 MHz	1.0	-19.02
3.0 MHz	1.0	-19.02
5.0 MHz	1.0	-19.02
10.0 MHz	1.0	-19.02

Port B, Channel Position B 1.4 MHz
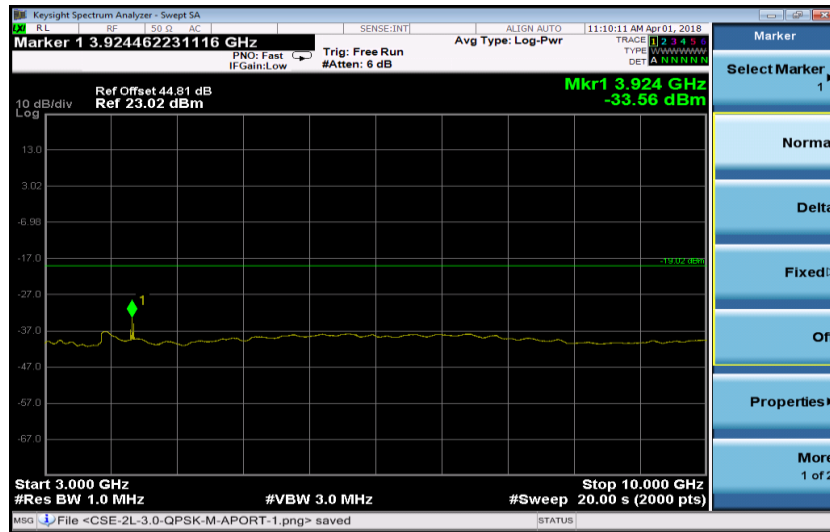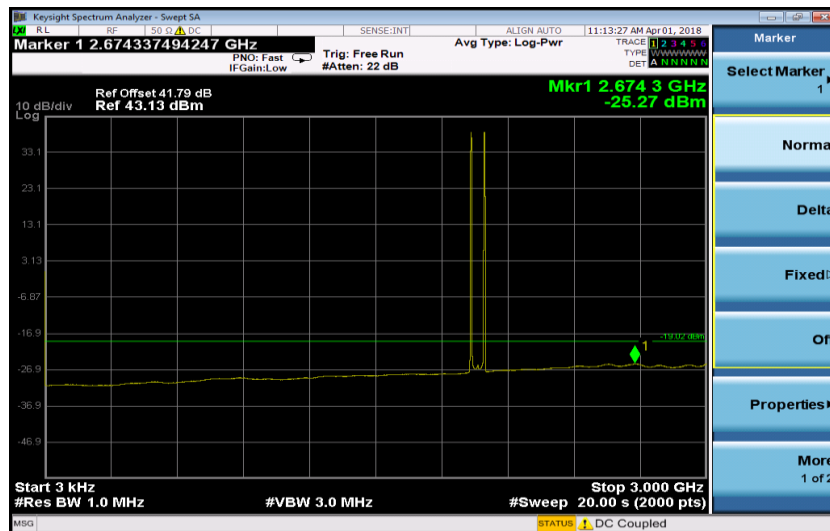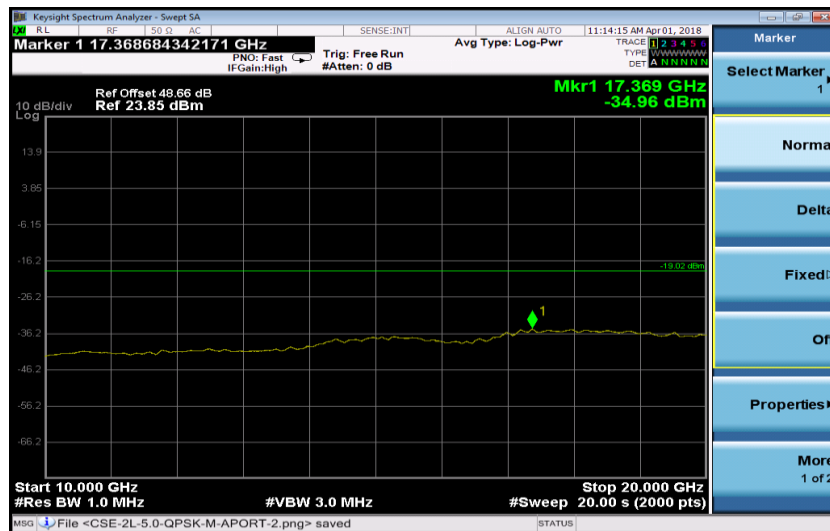
Port B, Channel Position M 1.4 MHz
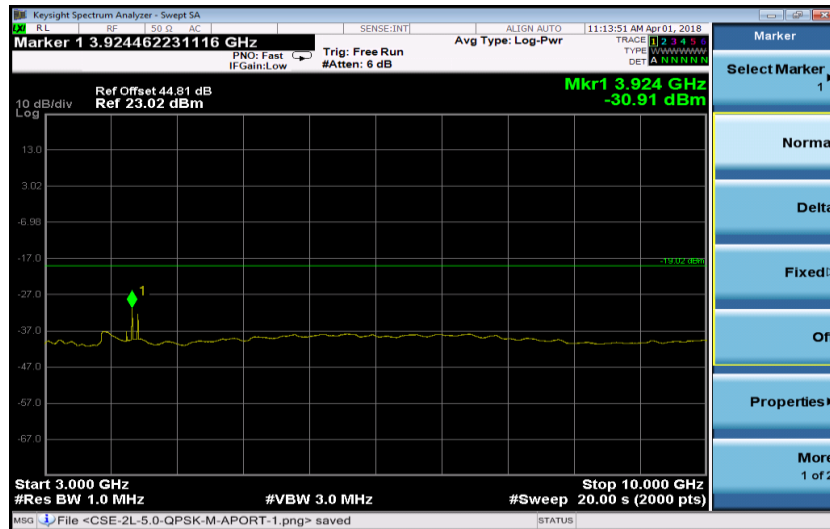
Port B, Channel Position T 1.4 MHz
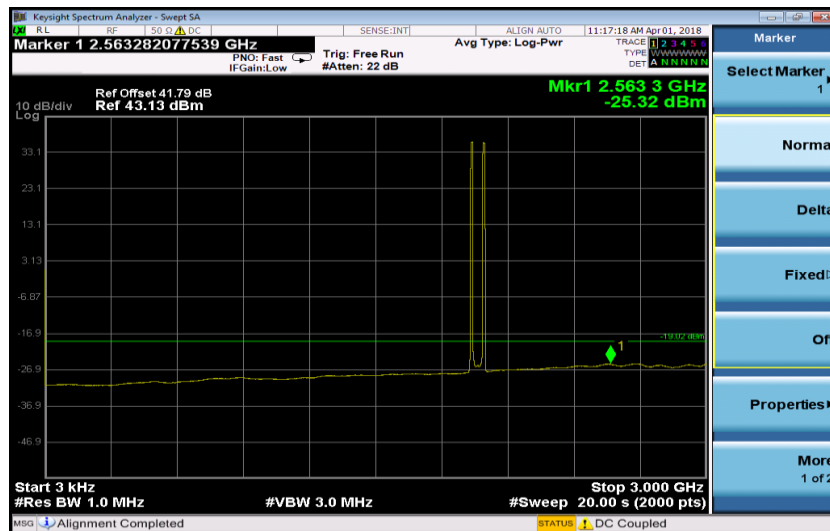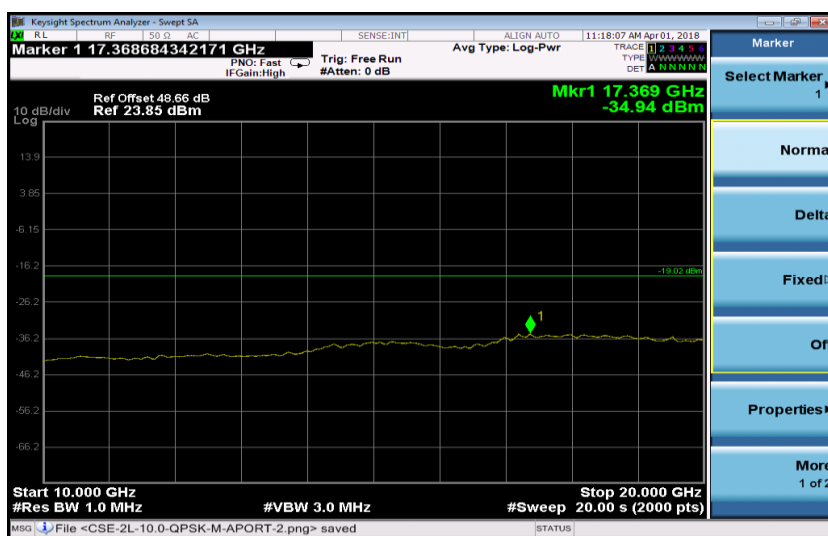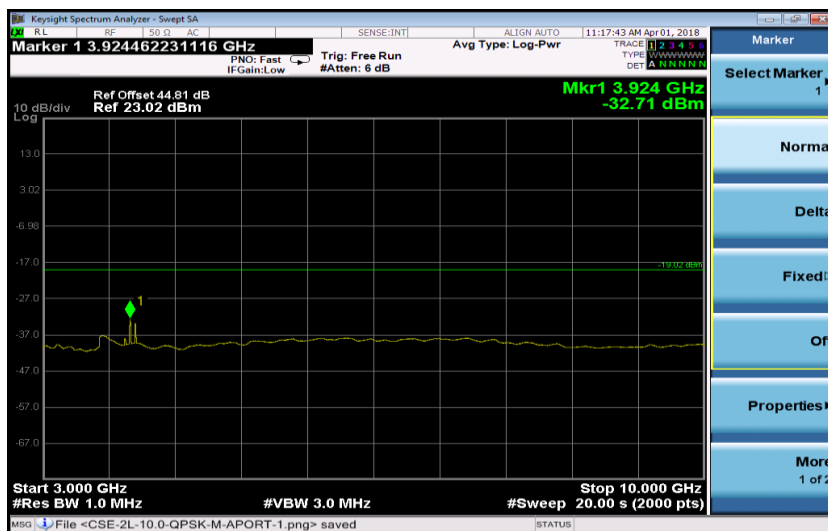
Port B, Channel Position M 3.0 MHz

Port B, Channel Position M 5.0 MHz

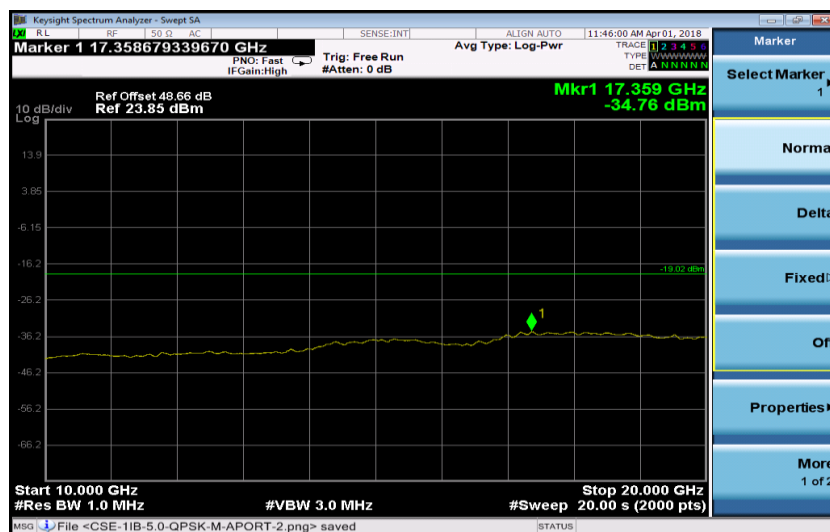Port B, Channel Position M 10.0 MHz

Configuration NB-IoT-InBand-1C, QPSK

Channel Bandwidth	RBW (MHz)	Limit (dBm)
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

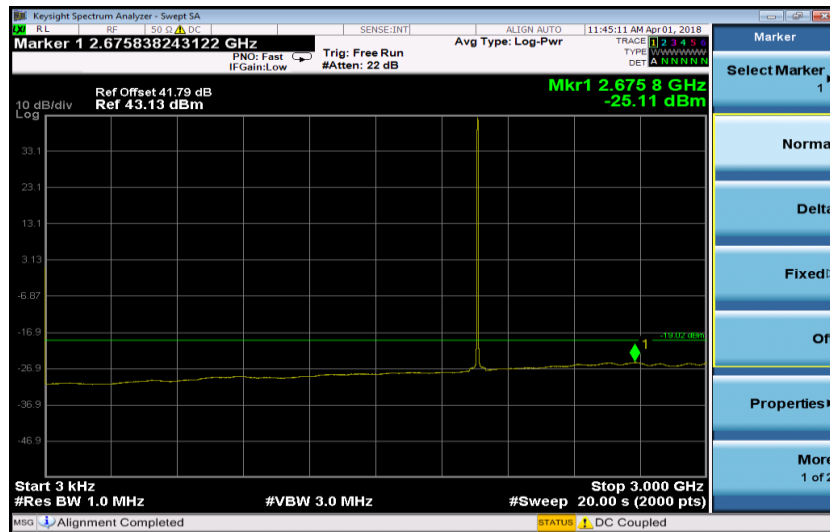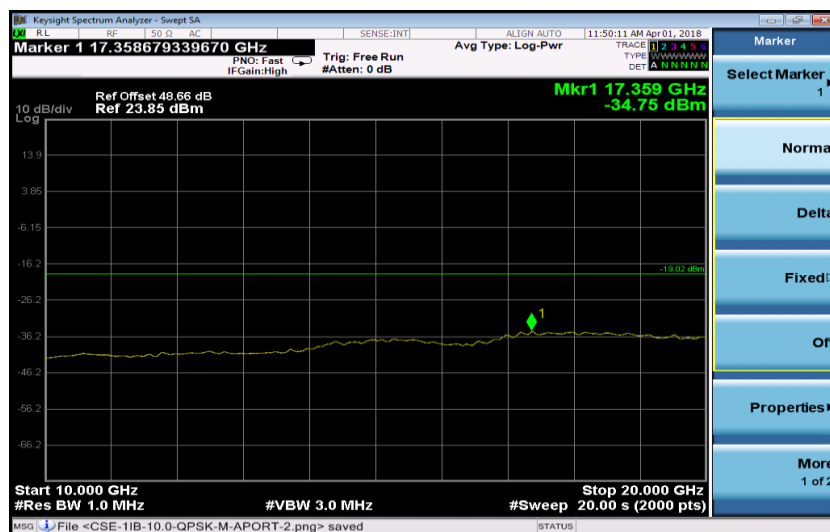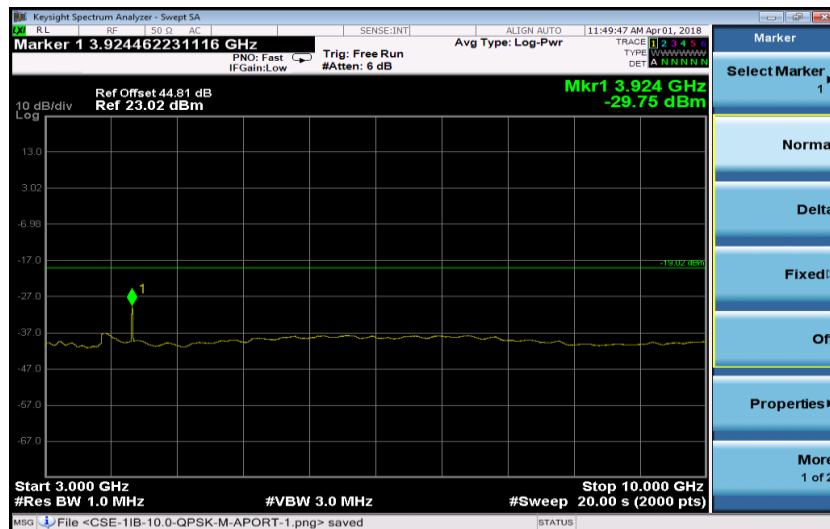Port B, Channel Position M 5.0 MHz

Port B, Channel Position M 10.0 MHz

Port B, Channel Position M 15.0 MHz