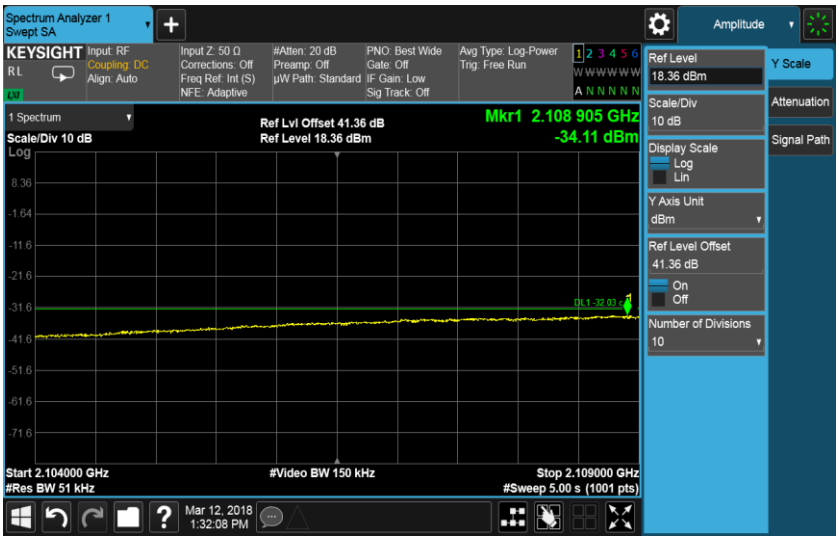
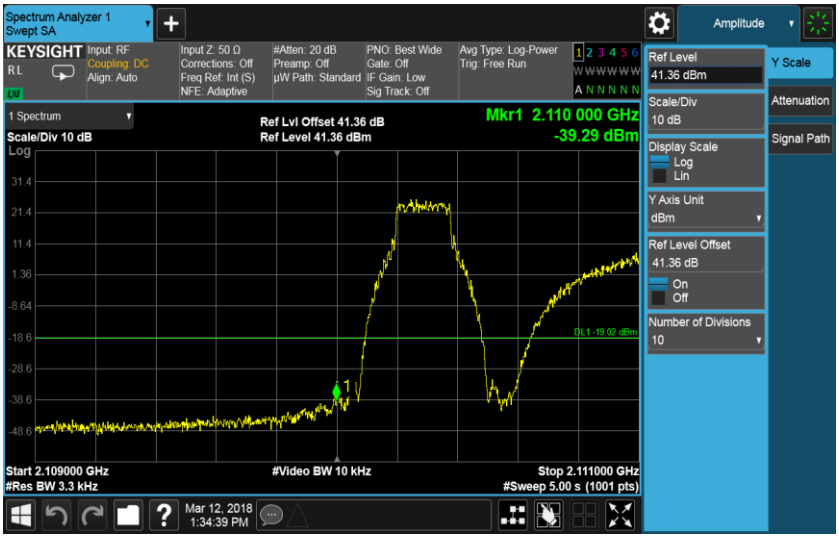
Port C, Channel Position B, LTE 15.0MHz



Port C, Channel Position B, LTE 20.0MHz



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A.4 Conducted Spurious Emission

A.4.1 Reference

FCC CFR 47 Part 27, Clause 27.53(h)

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 22GHz. The resolution bandwidth of 1MHz was employed for frequency band 3KHz to 22GHz. 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 accounting for simultaneous transmission from all antenna ports. Then the limit was adjusted 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	-13.00

Port C, Channel Position B

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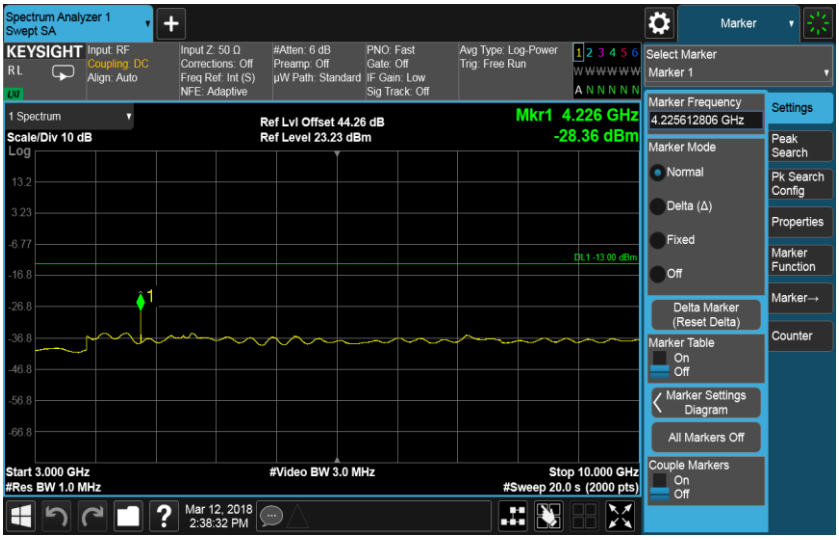

Port C, Channel Position M

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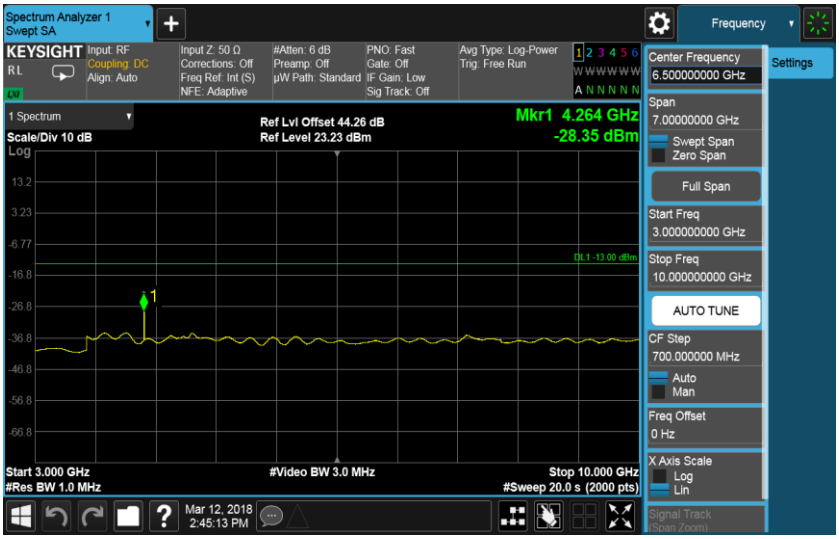

Port C, Channel Position T

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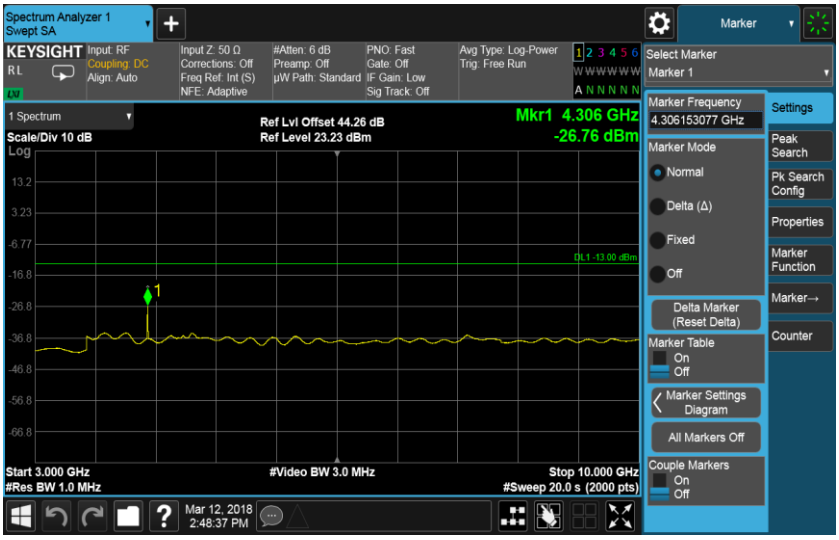

Configuration WCDMA-MIMO-1C 16QAM

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

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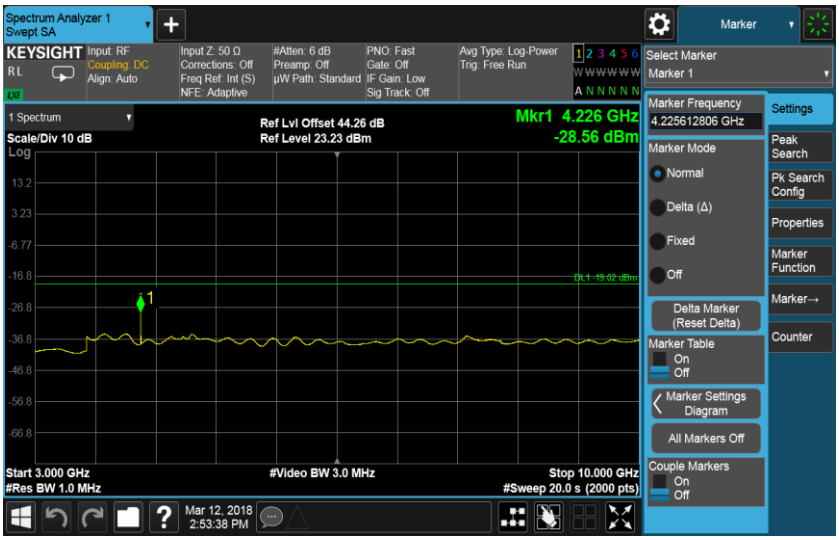
Port C, Channel Position B



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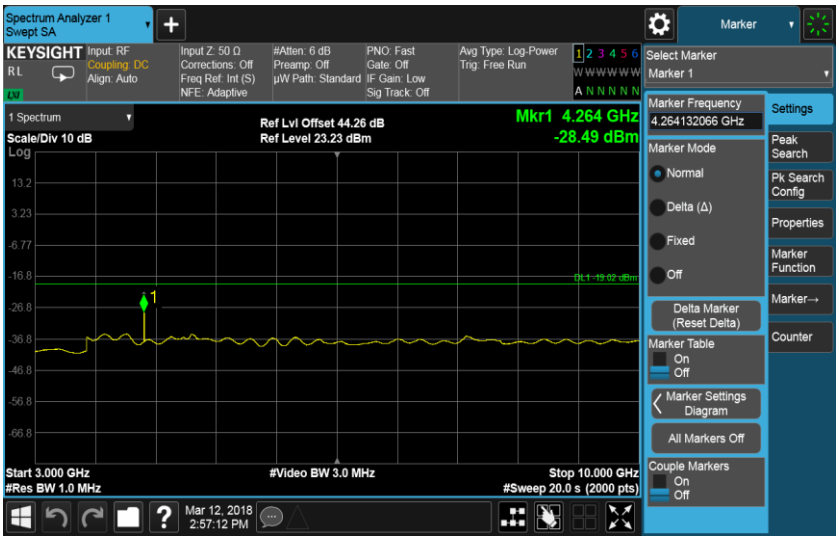
Port C, Channel Position M



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Port C, Channel Position T

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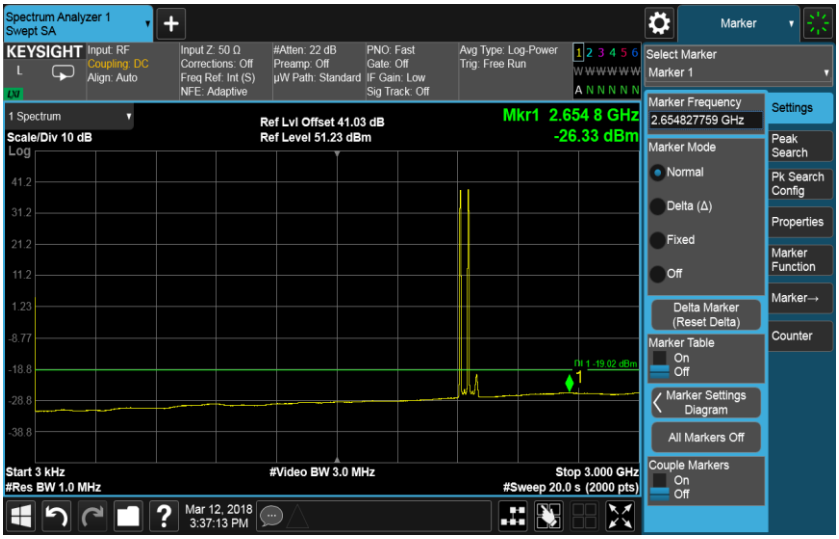
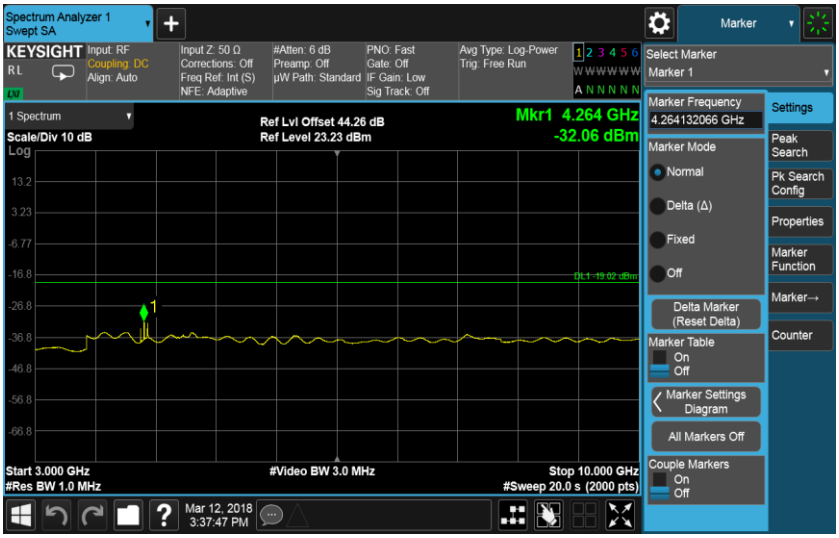
Configuration WCDMA-MIMO-2C 16QAM

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

Port C, Channel Position M





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Configuration LTE-MIMO-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 C, Channel Position B 5.0 MHz

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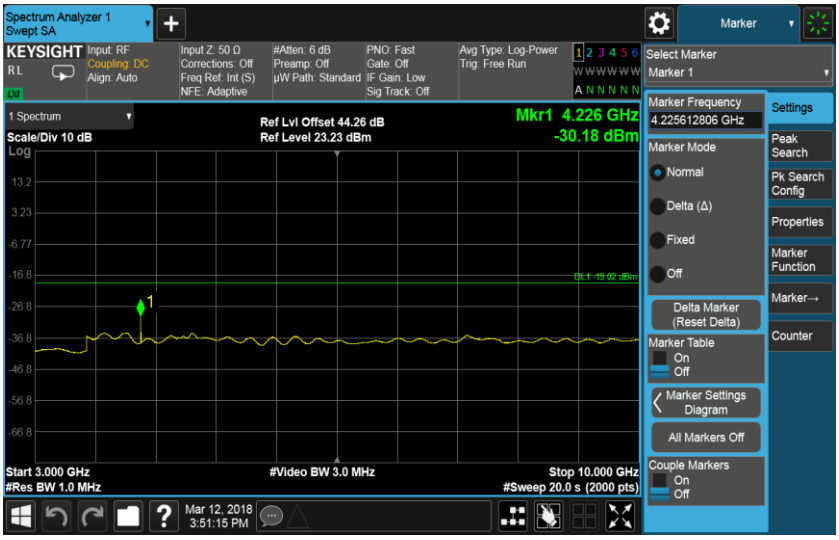

Port C, Channel Position M 5.0 MHz

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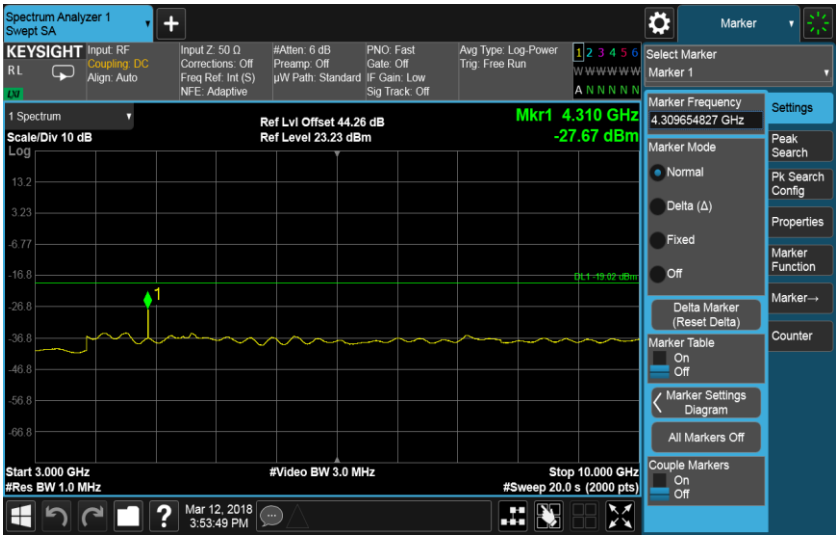

Port C, Channel Position T 5.0 MHz

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Port C, Channel Position B 10.0 MHz

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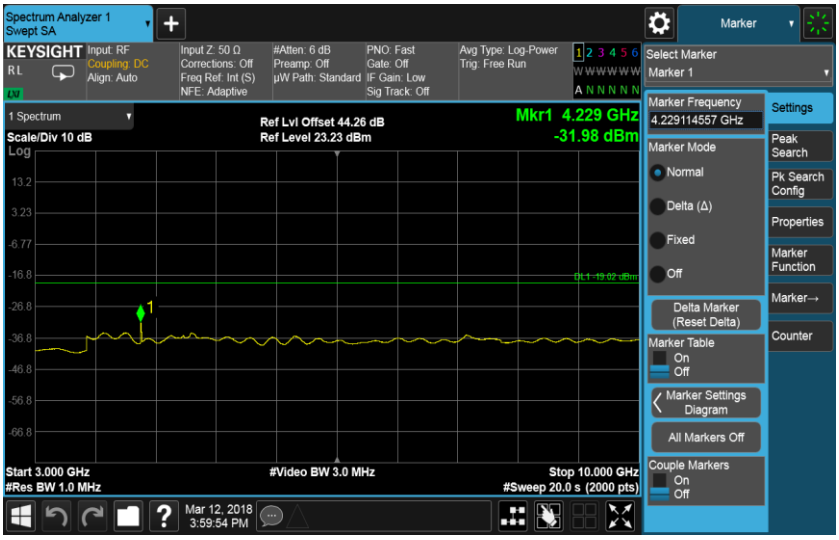

Port C, Channel Position M 10.0 MHz

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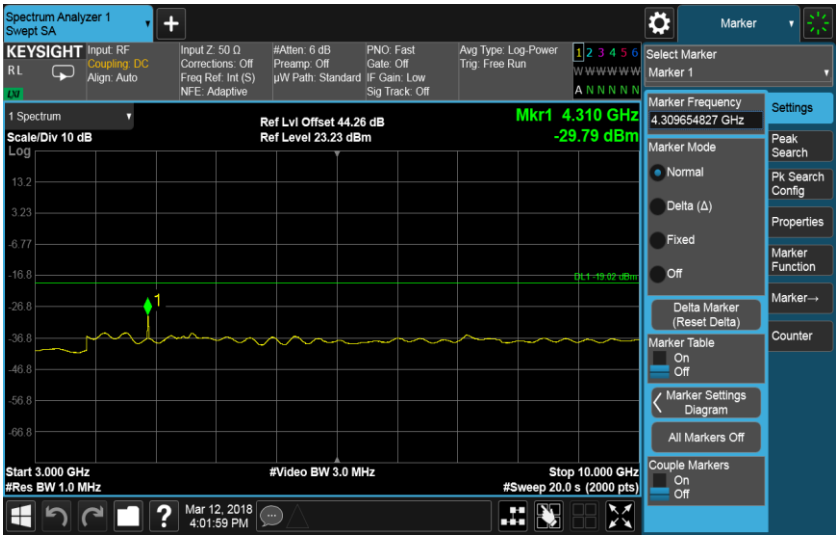

Port C, Channel Position T 10.0 MHz

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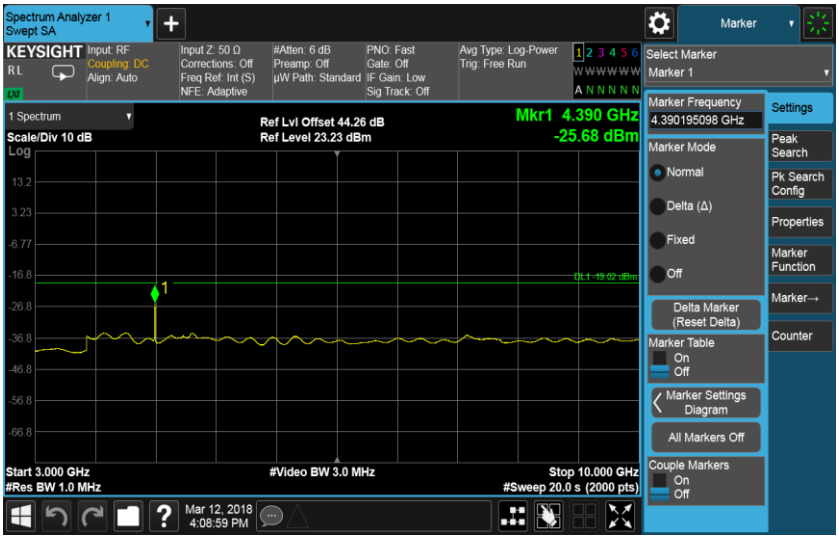

Port C, Channel Position B 15.0 MHz

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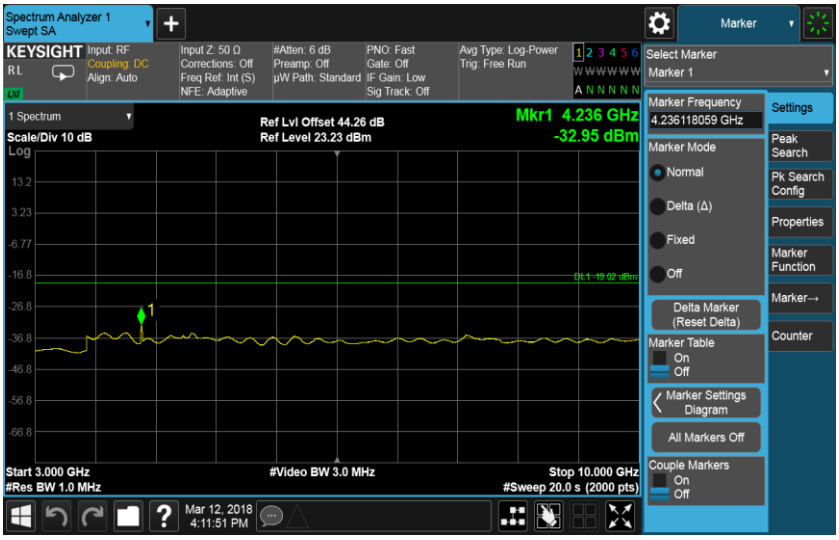

Port C, Channel Position M 15.0 MHz

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