**Example 1**

AutoQC EIC looks great:

A graph of a function

Description automatically generated

Retention time shift, AutoQC doesn’t integrate correct peak:

A graph of a number and a line

Description automatically generated with medium confidence

ZOOMED in\_Retention time shift, AutoQC doesn’t integrate correct peak. Skyline is integrating noise, even though the correct peak at 13.81 minutes is within the explicit retention time window:

A graph with numbers and a line

Description automatically generated

**Example 2**

AutoQC EIC looks great:

A graph of a function

Description automatically generated with medium confidence

Retention time shift, AutoQC doesn’t integrate correct peak:

A graph of a number and a line

Description automatically generated

**Example 3**

AutoQC EIC looks great:

A graph of a function

Description automatically generated

Retention time shift, AutoQC doesn’t integrate correct peak:

A graph of a function

Description automatically generated

Retention time shift, AutoQC integrates correct peak. The RT is 9.98 just like the EIC above, yet this one was correctly integrated and the former ^^ was not:

A graph of a function

Description automatically generated