Agilent | Trusted Answers

# MS Autotune Report - Ultivo

## Instrument Information

| | | | |
|---|---|---|---|
| **Model** | G6465B Ultivo | **Autotune Date** | 2026-09-05T12:49:08-07:00 |
| **Serial Number** | SG1849Q103 | **SW/FW Version** | 2.4.467/8.1.38 |
| **Autotune Version** | 4.10.268 | **Last Autotune Date** | 2026-09-05T12:49:08-07:00 |
| **Ion Source** | AJS ESI | **Overall Result** | Passed |

## Positive Results

### *Components*

#### *Ion Source Settings*

| | | | |
|---|---|---|---|
| **Gas Temperature(°C)** | 300 | **Gas Flow(l/min)** | 7.0 |
| **Nebulizer(psi)** | 15 | **Sheath Gas Temperature(°C)** | 200 |
| **Sheath Gas Flow(l/min)** | 11.0 | **Capillary Voltage(V)** | 4000 |
| **Nozzle Voltage(V)** | 1500 | | |

#### *Optics Settings*

| | | | |
|---|---|---|---|
| **Fragmentor(V)** | 120 | **Skimmer(V)** | 10 |
| **Cyclone Outer DC(V)** | 3 | **Cyclone Accelerator(V)** | 0 |
| **Cyclone Exit DC(V)** | 3 | **Cyclone Exit Lens(V)** | 2 |
| **Cyclone Inner RF(V)** | 400 | **Cyclone Outer RF(V)** | 350 |

#### *Quad 1 Settings*

| | |
|---|---|
| **MS1 Entrance Lens(V)** | -50 |

**MS1 Entrance Lens Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | -28 |
| 50.0 | -28 |
| 120.0 | -29 |
| 320.0 | -67 |
| 620.0 | -124 |
| 920.0 | -62 |
| 1220.0 | 0 |
| 1400.0 | 0 |

| | | | |
|---|---|---|---|
| **MS1 DC(V)** | 1 | **MS1 Heater(°C)** | 65 |
| **MS1 Exit Lens(V)** | -50 | | |

MS1 Exit Lens Dynamic Table

| m/z | Setting |
|---|---|
| 5.0 | -36 |
| 50.0 | -36 |
| 120.0 | -36 |
| 320.0 | -76 |
| 620.0 | -137 |
| 920.0 | -89 |
| 1220.0 | -40 |
| 1400.0 | -40 |

### *Collision Cell Settings*

| | | | |
|---|---|---|---|
| CC Entrance Lens(V) | 0 | CC Outer DC(V) | 0 |
| CAV(V) | 7 | CC Exit DC(V) | -7 |
| CC Exit Lens(V) | -10 | CC Inner RF(V) | 400 |
| CC Outer RF(V) | 100 | | |

### *Quad 2 Settings*

| | |
|---|---|
| MS2 Entrance Lens(V) | -100 |

MS2 Entrance Lens Dynamic Table

| m/z | Setting |
|---|---|
| 5.0 | -45 |
| 50.0 | -45 |
| 120.0 | -45 |
| 320.0 | -54 |
| 620.0 | -66 |
| 920.0 | -72 |
| 1220.0 | -78 |
| 1400.0 | -78 |

| | | | |
|---|---|---|---|
| MS2 DC(V) | -8 | MS2 Heater(°C) | 65 |

### *Detector Settings*

| | | | |
|---|---|---|---|
| Iris(V) | -100 | HED(kV) | -10 |
| EMV(V) | 982 | | |

### *Gain*

| | | | |
|---|---|---|---|
| Minimum Gain Factor | 0.1 | Maximum Gain Factor | 10.0 |
| Measured Gain Factor | 1.0 | Result | Passed |

## *Mass Calibration Results*

# MS1 Peak Width Unit, Scan Speed Normal

## *Calibration Information*

| | | | |
|---|---|---|---|
| **Score** | 99 | **Result** | Passed |

## *Calibration Parameters*

| | | | |
|---|---|---|---|
| **MS1 Axis Gain** | 33.74 | **MS1 Axis Offset(amu)** | 0.779 |

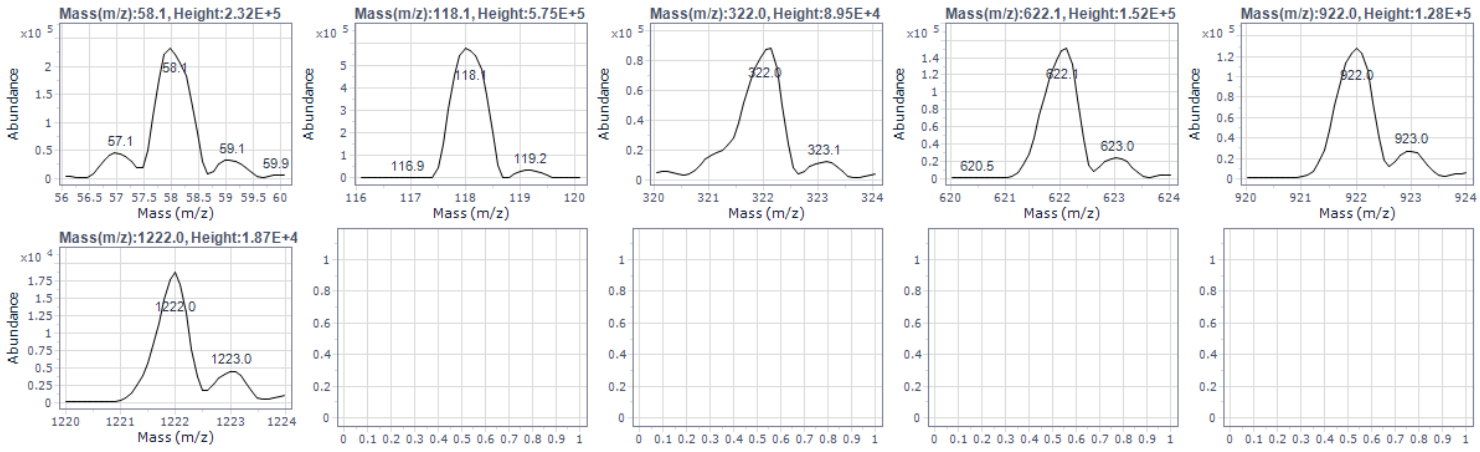
**MS1 Axis Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 0.774 |
| 50.0 | 0.774 |
| 120.0 | 0.816 |
| 320.0 | 0.909 |
| 620.0 | 0.938 |
| 920.0 | 0.863 |
| 1220.0 | 0.776 |
| 1400.0 | 0.776 |

| | | | |
|---|---|---|---|
| **MS1 Width Gain(amu)** | -41.3 | **MS1 Width Offset(amu)** | -0.88 |

**MS1 Width Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | -0.87 |
| 50.0 | -0.87 |
| 120.0 | -0.94 |
| 320.0 | -1.08 |
| 620.0 | -1.07 |
| 920.0 | -0.97 |
| 1220.0 | -0.60 |
| 1400.0 | -0.60 |




**Mass Calibration Results**

| Theoretical (m/z) | Mass Delta(m/z) | Width Delta(m/z) | Abundance | Score | Result |
|---|---|---|---|---|---|
| 58.07 | 0.01 | 0.01 | 2.38E+5 | 98 | Passed |
| 118.09 | 0.00 | 0.01 | 6.12E+5 | 100 | Passed |
| 322.05 | 0.00 | 0.00 | 9.45E+4 | 100 | Passed |
| 622.03 | 0.01 | 0.01 | 1.52E+5 | 99 | Passed |
| 922.01 | 0.00 | 0.02 | 1.67E+5 | 99 | Passed |
| 1221.99 | -0.01 | 0.00 | 1.63E+4 | 100 | Passed |

## MS2 Peak Width Unit, Scan Speed Normal

### *Calibration Information*

| | | | |
|---|---|---|---|
| **Score** | 98 | **Result** | Passed |

### *Calibration Parameters*

| | | | |
|---|---|---|---|
| **MS2 Axis Gain** | 10.46 | **MS2 Axis Offset(amu)** | 0.489 |

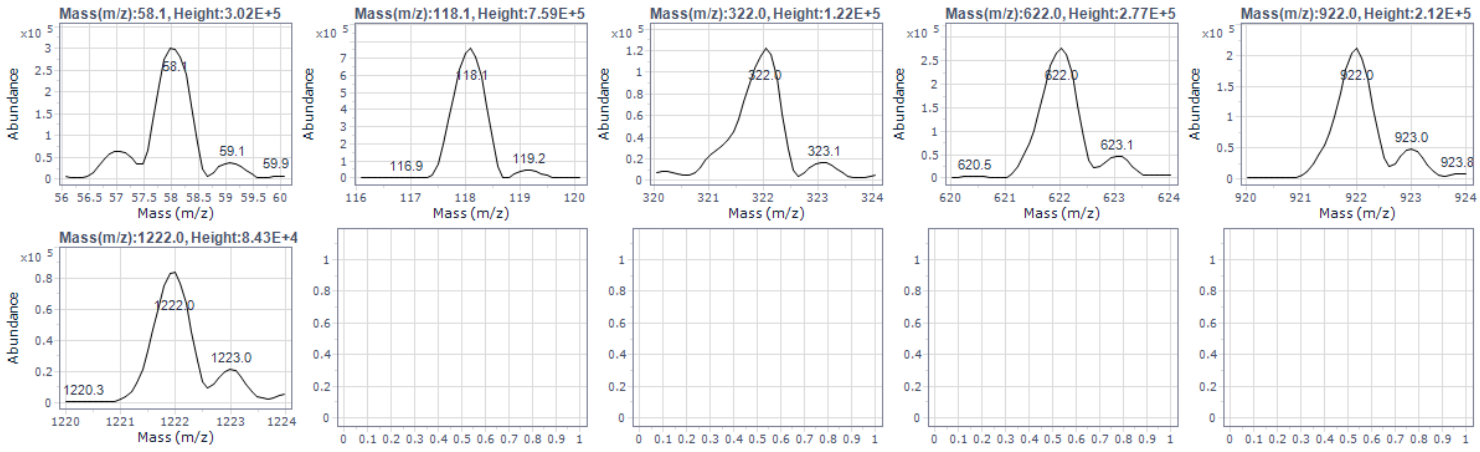
**MS2 Axis Offset Dynamic Table**

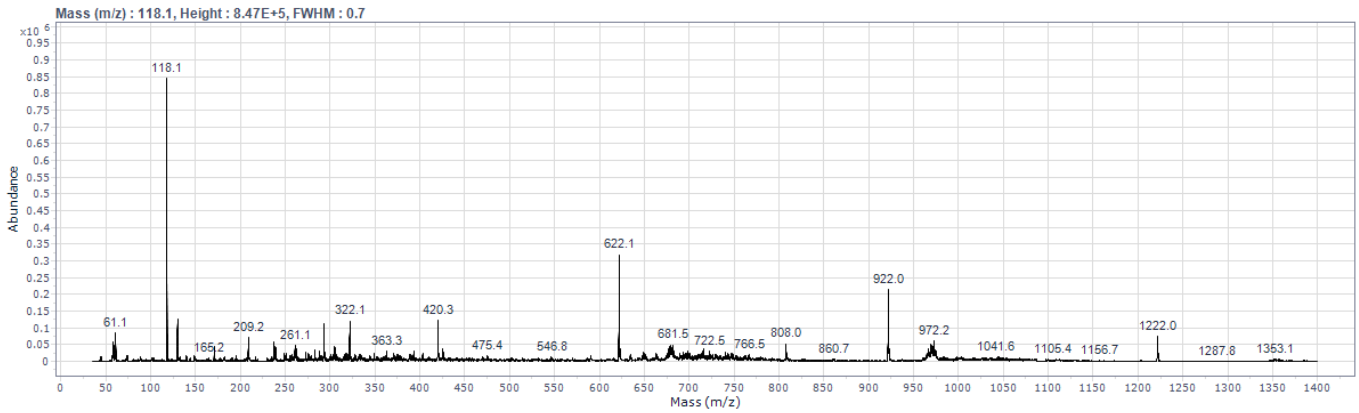
| m/z | Setting |
|---|---|
| 5.0 | 0.492 |
| 50.0 | 0.492 |
| 120.0 | 0.546 |
| 320.0 | 0.599 |
| 620.0 | 0.716 |
| 920.0 | 0.629 |
| 1220.0 | 0.558 |
| 1400.0 | 0.558 |

| | | | |
|---|---|---|---|
| **MS2 Width Gain(amu)** | -40.2 | **MS2 Width Offset(amu)** | -0.64 |

**MS2 Width Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | -0.68 |
| 50.0 | -0.68 |
| 120.0 | -0.69 |
| 320.0 | -0.80 |
| 620.0 | -0.65 |
| 920.0 | -0.63 |
| 1220.0 | -0.66 |
| 1400.0 | -0.66 |



**Mass Calibration Results**

| Theoretical (m/z) | Mass Delta(m/z) | Width Delta(m/z) | Abundance | Score | Result |
|---|---|---|---|---|---|
| 58.07 | 0.00 | -0.01 | 3.04E+5 | 99 | Passed |
| 118.09 | 0.01 | 0.01 | 7.50E+5 | 99 | Passed |
| 322.05 | -0.02 | 0.01 | 1.13E+5 | 97 | Passed |
| 622.03 | 0.00 | 0.02 | 2.78E+5 | 98 | Passed |
| 922.01 | 0.01 | -0.02 | 2.14E+5 | 98 | Passed |
| 1221.99 | 0.00 | 0.01 | 8.43E+4 | 99 | Passed |

## MS1 Peak Width Wide, Scan Speed Normal

### *Calibration Information*

| | | | |
|---|---|---|---|
| **Score** | 99 | **Result** | Passed |

### *Calibration Parameters*

| | | | |
|---|---|---|---|
| **MS1 Axis Gain** | 37.01 | **MS1 Axis Offset(amu)** | 0.868 |

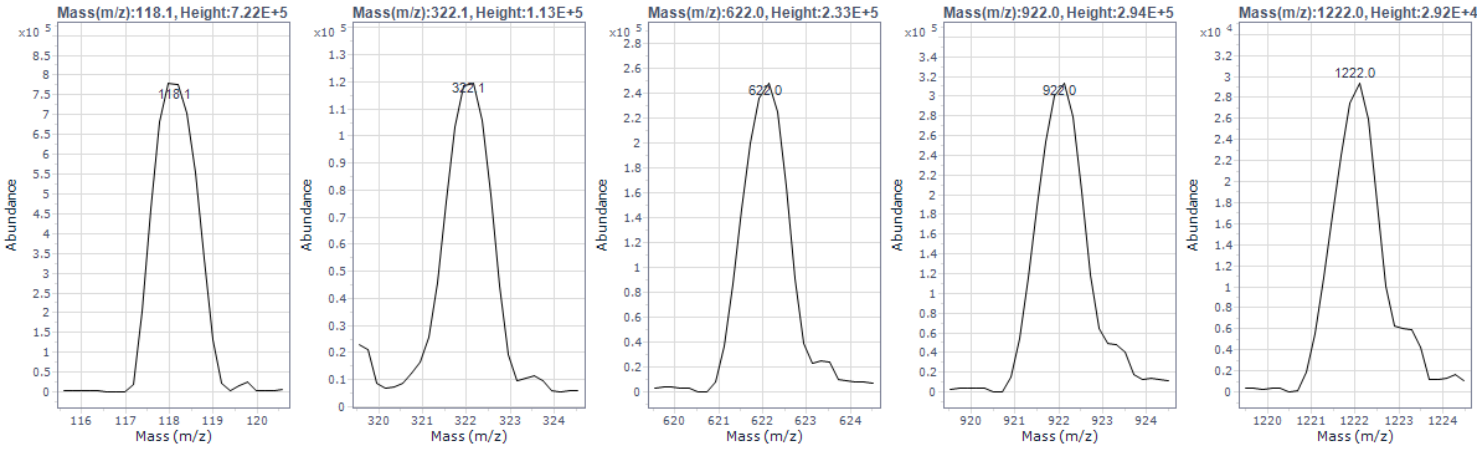
**MS1 Axis Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 1.018 |
| 50.0 | 1.018 |
| 120.0 | 1.018 |
| 320.0 | 0.701 |
| 620.0 | -0.004 |
| 920.0 | -0.689 |
| 1220.0 | -1.490 |
| 1400.0 | -1.490 |

| | | | |
|---|---|---|---|
| **MS1 Width Gain(amu)** | -44.9 | **MS1 Width Offset(amu)** | -0.87 |

**MS1 Width Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 0.12 |
| 50.0 | 0.12 |
| 120.0 | 0.12 |
| 320.0 | 0.27 |
| 620.0 | 1.16 |
| 920.0 | 1.91 |
| 1220.0 | 2.81 |
| 1400.0 | 2.81 |



**Mass Calibration Results**

| Theoretical (m/z) | Mass Delta(m/z) | Width Delta(m/z) | Abundance | Score | Result |
|---|---|---|---|---|---|
| 118.09 | 0.03 | 0.01 | 7.22E+5 | 98 | Passed |
| 322.05 | 0.00 | 0.02 | 1.13E+5 | 100 | Passed |
| 622.03 | 0.01 | -0.01 | 2.33E+5 | 99 | Passed |
| 922.01 | 0.01 | 0.00 | 2.94E+5 | 100 | Passed |
| 1221.99 | 0.01 | -0.04 | 2.92E+4 | 97 | Passed |

## MS2 Peak Width Wide, Scan Speed Normal

### *Calibration Information*

| | | | |
|---|---|---|---|
| **Score** | 99 | **Result** | Passed |

### *Calibration Parameters*

| | | | |
|---|---|---|---|
| **MS2 Axis Gain** | 9.58 | **MS2 Axis Offset(amu)** | 0.916 |

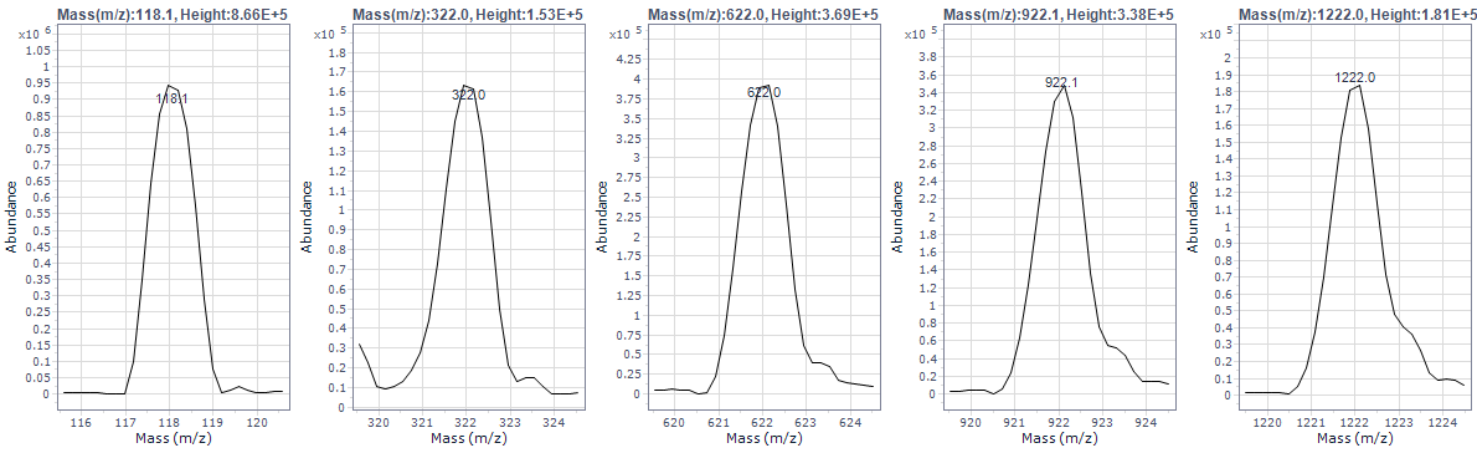
**MS2 Axis Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 0.900 |
| 50.0 | 0.900 |
| 120.0 | 0.900 |
| 320.0 | 1.092 |
| 620.0 | 1.317 |
| 920.0 | 1.418 |
| 1220.0 | 1.469 |
| 1400.0 | 1.469 |

| | | | |
|---|---|---|---|
| **MS2 Width Gain(amu)** | -39.3 | **MS2 Width Offset(amu)** | 0.16 |

**MS2 Width Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 0.11 |
| 50.0 | 0.11 |
| 120.0 | 0.11 |
| 320.0 | -0.26 |
| 620.0 | -0.12 |
| 920.0 | -0.17 |
| 1220.0 | -0.30 |
| 1400.0 | -0.30 |



**Mass Calibration Results**

| Theoretical (m/z) | Mass Delta(m/z) | Width Delta(m/z) | Abundance | Score | Result |
|---|---|---|---|---|---|
| 118.09 | -0.02 | -0.01 | 8.66E+5 | 99 | Passed |
| 322.05 | -0.01 | 0.01 | 1.53E+5 | 99 | Passed |
| 622.03 | -0.01 | 0.01 | 3.69E+5 | 100 | Passed |
| 922.01 | 0.05 | -0.02 | 3.38E+5 | 95 | Passed |
| 1221.99 | 0.00 | 0.00 | 1.81E+5 | 100 | Passed |

## MS1 Peak Width Widest, Scan Speed Normal

### *Calibration Information*

| | | | |
|---|---|---|---|
| **Score** | 98 | **Result** | Passed |

### *Calibration Parameters*

| | | | |
|---|---|---|---|
| **MS1 Axis Gain** | 34.06 | **MS1 Axis Offset(amu)** | 1.239 |

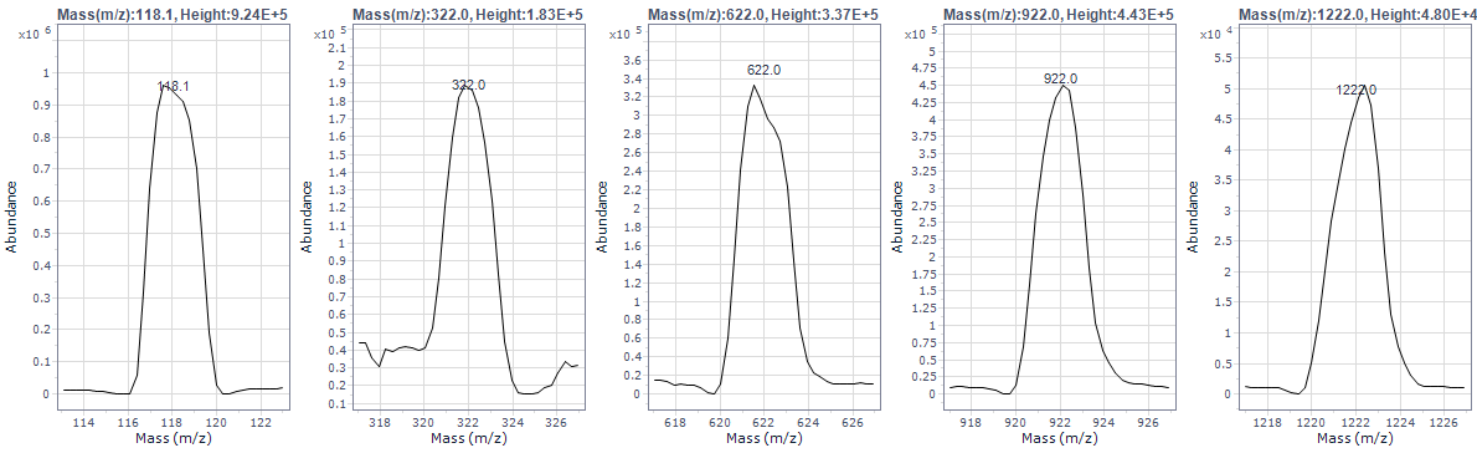
**MS1 Axis Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 2.053 |
| 50.0 | 2.053 |
| 120.0 | 2.053 |
| 320.0 | 2.158 |
| 620.0 | 1.873 |
| 920.0 | 1.827 |
| 1220.0 | 1.459 |
| 1400.0 | 1.459 |

| | | | |
|---|---|---|---|
| **MS1 Width Gain(amu)** | -40.6 | **MS1 Width Offset(amu)** | 1.44 |

**MS1 Width Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 1.95 |
| 50.0 | 1.95 |
| 120.0 | 1.95 |
| 320.0 | 1.63 |
| 620.0 | 1.80 |
| 920.0 | 1.74 |
| 1220.0 | 2.10 |
| 1400.0 | 2.10 |



**Mass Calibration Results**

| Theoretical (m/z) | Mass Delta(m/z) | Width Delta(m/z) | Abundance | Score | Result |
|---|---|---|---|---|---|
| 118.09 | -0.02 | 0.01 | 9.24E+5 | 99 | Passed |
| 322.05 | -0.05 | 0.01 | 1.83E+5 | 98 | Passed |
| 622.03 | -0.03 | 0.05 | 3.37E+5 | 98 | Passed |
| 922.01 | 0.03 | -0.11 | 4.43E+5 | 96 | Passed |
| 1221.99 | 0.02 | -0.03 | 4.80E+4 | 99 | Passed |

## MS2 Peak Width Widest, Scan Speed Normal

### *Calibration Information*

| | | | |
|---|---|---|---|
| **Score** | 99 | **Result** | Passed |

### *Calibration Parameters*

| | | | |
|---|---|---|---|
| **MS2 Axis Gain** | 9.58 | **MS2 Axis Offset(amu)** | 0.916 |

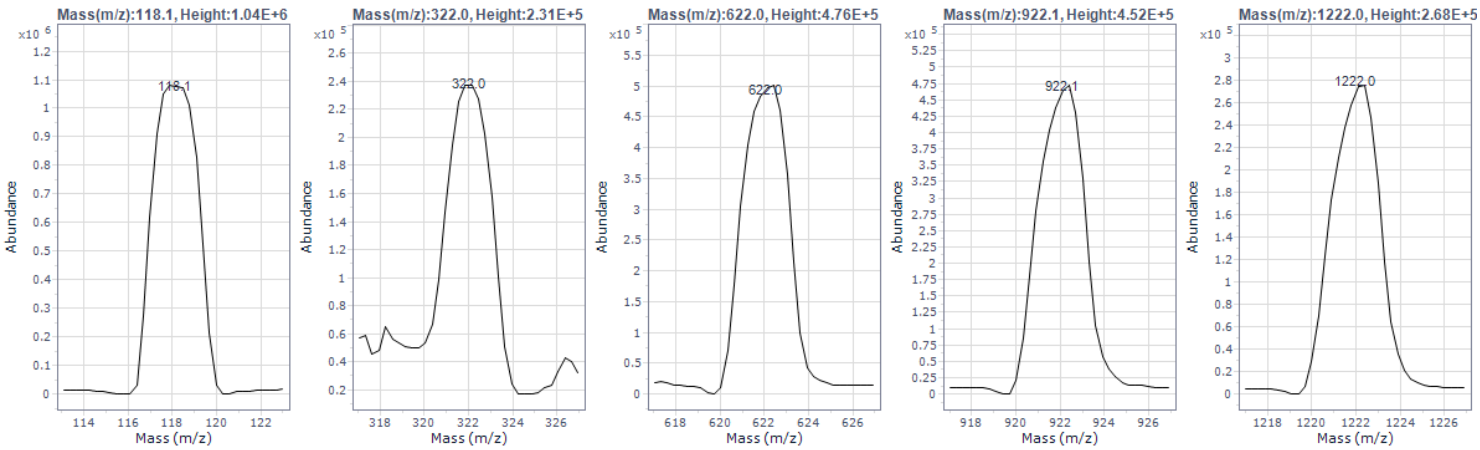
**MS2 Axis Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 1.871 |
| 50.0 | 1.871 |
| 120.0 | 1.871 |
| 320.0 | 2.084 |
| 620.0 | 2.119 |
| 920.0 | 2.112 |
| 1220.0 | 2.161 |
| 1400.0 | 2.161 |

| | | | |
|---|---|---|---|
| **MS2 Width Gain(amu)** | -39.3 | **MS2 Width Offset(amu)** | 0.16 |

**MS2 Width Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 2.10 |
| 50.0 | 2.10 |
| 120.0 | 2.10 |
| 320.0 | 1.88 |
| 620.0 | 2.07 |
| 920.0 | 2.11 |
| 1220.0 | 2.19 |
| 1400.0 | 2.19 |



**Mass Calibration Results**

| Theoretical (m/z) | Mass Delta(m/z) | Width Delta(m/z) | Abundance | Score | Result |
|---|---|---|---|---|---|
| 118.09 | 0.03 | -0.05 | 1.04E+6 | 99 | Passed |
| 322.05 | -0.04 | -0.02 | 2.31E+5 | 98 | Passed |
| 622.03 | -0.01 | -0.05 | 4.76E+5 | 99 | Passed |
| 922.01 | 0.04 | -0.05 | 4.52E+5 | 98 | Passed |
| 1221.99 | -0.02 | 0.03 | 2.68E+5 | 99 | Passed |

## MS2 Scan Speed Fast

### *Calibration Information*

| | | | |
|---|---|---|---|
| **Score** | 99 | **Result** | Passed |

### *Calibration Parameters*

| | | | |
|---|---|---|---|
| **MS2 Axis Gain** | 9.40 | **MS2 Axis Offset(amu)** | 1.899 |

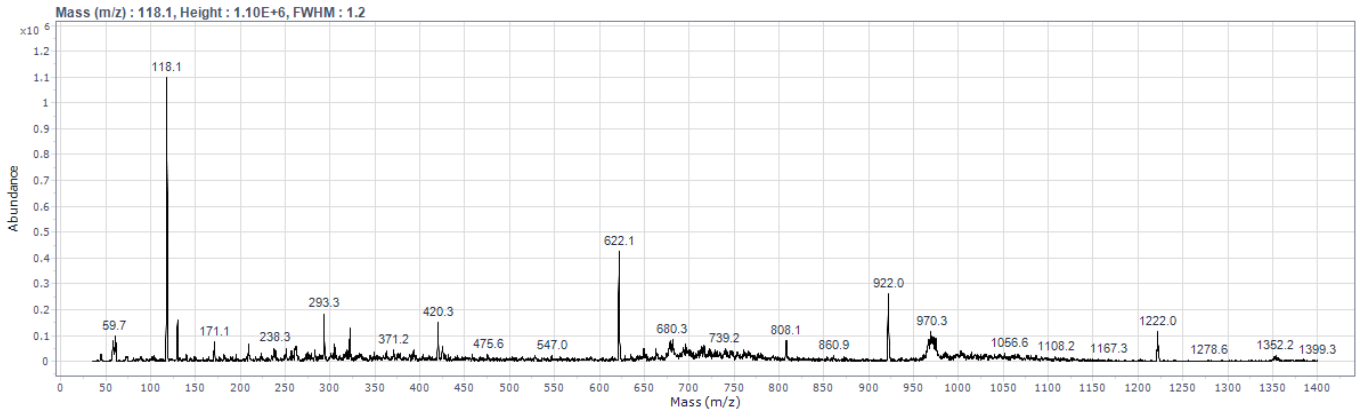
**MS2 Axis Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 1.820 |
| 50.0 | 1.820 |
| 120.0 | 1.820 |
| 320.0 | 2.125 |
| 620.0 | 2.276 |
| 920.0 | 2.368 |
| 1220.0 | 2.516 |
| 1400.0 | 2.516 |

| | | | |
|---|---|---|---|
| **MS2 Width Gain(amu)** | -41.6 | **MS2 Width Offset(amu)** | 0.76 |

**MS2 Width Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 0.84 |
| 50.0 | 0.84 |
| 120.0 | 0.84 |
| 320.0 | 0.47 |
| 620.0 | 0.49 |
| 920.0 | 1.12 |
| 1220.0 | 0.83 |
| 1400.0 | 0.83 |



**Mass Calibration Results**

| Theoretical (m/z) | Mass Delta(m/z) | Width Delta(m/z) | Abundance | Score | Result |
|---|---|---|---|---|---|
| 118.09 | -0.02 | 0.01 | 9.22E+5 | 99 | Passed |
| 322.05 | -0.03 | 0.03 | 1.64E+5 | 97 | Passed |
| 622.03 | 0.00 | 0.01 | 3.85E+5 | 100 | Passed |
| 922.01 | -0.01 | 0.01 | 3.14E+5 | 100 | Passed |
| 1221.99 | -0.02 | 0.00 | 1.14E+5 | 99 | Passed |

## MS2 Scan Speed Ultra

### *Calibration Information*

| | | | |
|---|---|---|---|
| **Score** | 99 | **Result** | Passed |

### *Calibration Parameters*

| | | | |
|---|---|---|---|
| **MS2 Axis Gain** | 10.37 | **MS2 Axis Offset(amu)** | 2.030 |

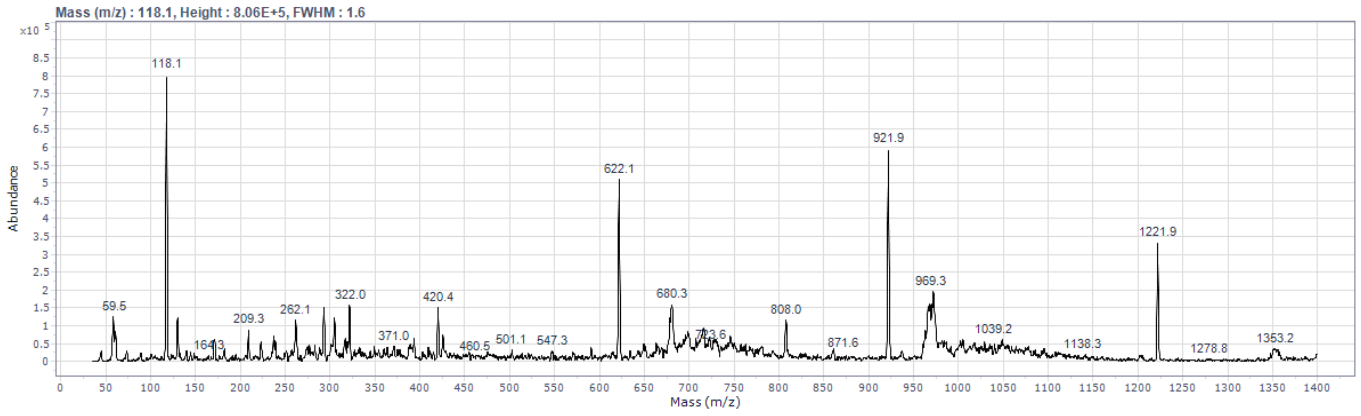
**MS2 Axis Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 3.024 |
| 50.0 | 3.024 |
| 120.0 | 3.024 |
| 320.0 | 3.262 |
| 620.0 | 3.473 |
| 920.0 | 3.354 |
| 1220.0 | 3.330 |
| 1400.0 | 3.330 |

| | | | |
|---|---|---|---|
| **MS2 Width Gain(amu)** | -42.1 | **MS2 Width Offset(amu)** | 2.18 |

**MS2 Width Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 3.23 |
| 50.0 | 3.23 |
| 120.0 | 3.23 |
| 320.0 | 2.72 |
| 620.0 | 2.97 |
| 920.0 | 3.68 |
| 1220.0 | 3.78 |
| 1400.0 | 3.78 |



**Mass Calibration Results**

| Theoretical (m/z) | Mass Delta(m/z) | Width Delta(m/z) | Abundance | Score | Result |
|---|---|---|---|---|---|
| 118.09 | -0.01 | 0.03 | 9.90E+5 | 100 | Passed |
| 322.05 | -0.02 | 0.03 | 2.00E+5 | 99 | Passed |
| 622.03 | 0.02 | -0.04 | 4.49E+5 | 99 | Passed |
| 922.01 | -0.03 | -0.01 | 4.51E+5 | 100 | Passed |
| 1221.99 | -0.01 | 0.01 | 2.44E+5 | 100 | Passed |

# Negative Results

## *Components*

### *Ion Source Settings*

| | | | |
|---|---|---|---|
| **Gas Temperature(°C)** | 300 | **Gas Flow(l/min)** | 7.0 |
| **Nebulizer(psi)** | 15 | **Sheath Gas Temperature(°C)** | 200 |
| **Sheath Gas Flow(l/min)** | 11.0 | **Capillary Voltage(V)** | 4000 |
| **Nozzle Voltage(V)** | 1500 | | |

### *Optics Settings*

| | | | |
|---|---|---|---|
| **Fragmentor(V)** | -90 | **Skimmer(V)** | -10 |
| **Cyclone Outer DC(V)** | -3 | **Cyclone Accelerator(V)** | 0 |
| **Cyclone Exit DC(V)** | -3 | **Cyclone Exit Lens(V)** | -2 |
| **Cyclone Inner RF(V)** | 400 | **Cyclone Outer RF(V)** | 350 |

### *Quad 1 Settings*

| | |
|---|---|
| **MS1 Entrance Lens(V)** | 40 |

**MS1 Entrance Lens Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 28 |
| 70.0 | 28 |
| 110.0 | 28 |
| 300.0 | 31 |
| 600.0 | 35 |
| 1030.0 | 39 |
| 1330.0 | 42 |
| 1400.0 | 42 |

| | | | |
|---|---|---|---|
| **MS1 DC(V)** | -1 | **MS1 Heater(°C)** | 65 |
| **MS1 Exit Lens(V)** | 50 | | |

**MS1 Exit Lens Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 27 |
| 70.0 | 27 |
| 110.0 | 27 |
| 300.0 | 32 |
| 600.0 | 42 |
| 1030.0 | 50 |
| 1330.0 | 56 |
| 1400.0 | 56 |

### *Collision Cell Settings*

| | | | |
|---|---|---|---|
| CC Entrance Lens(V) | 0 | CC Outer DC(V) | 0 |
| CAV(V) | -7 | CC Exit DC(V) | 7 |
| CC Exit Lens(V) | 10 | CC Inner RF(V) | 400 |
| CC Outer RF(V) | 100 | | |

### *Quad 2 Settings*

| | |
|---|---|
| MS2 Entrance Lens(V) | 100 |

MS2 Entrance Lens Dynamic Table

| m/z | Setting |
|---|---|
| 5.0 | 48 |
| 70.0 | 48 |
| 110.0 | 48 |
| 300.0 | 56 |
| 600.0 | 70 |
| 1030.0 | 77 |
| 1330.0 | 82 |
| 1400.0 | 82 |

| | | | |
|---|---|---|---|
| MS2 DC(V) | 8 | MS2 Heater(°C) | 65 |

### *Detector Settings*

| | | | |
|---|---|---|---|
| Iris(V) | 100 | HED(kV) | 10 |
| EMV(V) | 1078 | | |

### *Gain*

| | | | |
|---|---|---|---|
| Minimum Gain Factor | 0.1 | Maximum Gain Factor | 10.0 |
| Measured Gain Factor | 1.0 | Result | Passed |

## *Mass Calibration Results*

### MS1 Peak Width Unit, Scan Speed Normal

#### *Calibration Information*

| | | | |
|---|---|---|---|
| Score | 99 | Result | Passed |

#### *Calibration Parameters*

| | | | |
|---|---|---|---|
| MS1 Axis Gain | 33.59 | MS1 Axis Offset(amu) | 0.675 |

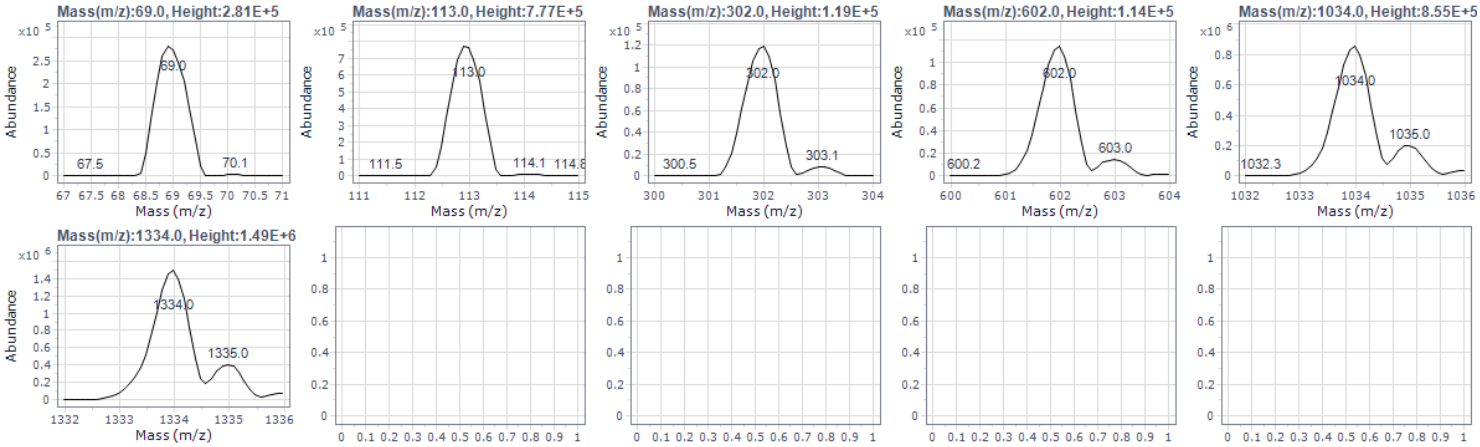
MS1 Axis Offset Dynamic Table

| m/z | Setting |
|---|---|
| 5.0 | 0.729 |
| 70.0 | 0.729 |
| 110.0 | 0.746 |
| 300.0 | 0.910 |
| 600.0 | 0.937 |
| 1030.0 | 0.950 |
| 1330.0 | 0.690 |
| 1400.0 | 0.690 |

| | | | |
|---|---|---|---|
| MS1 Width Gain(amu) | -41.3 | MS1 Width Offset(amu) | -0.97 |

**MS1 Width Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | -0.96 |
| 70.0 | -0.96 |
| 110.0 | -1.04 |
| 300.0 | -1.02 |
| 600.0 | -1.01 |
| 1030.0 | -1.06 |
| 1330.0 | -0.90 |
| 1400.0 | -0.90 |




**Mass Calibration Results**

| Theoretical (m/z) | Mass Delta(m/z) | Width Delta(m/z) | Abundance | Score | Result |
|---|---|---|---|---|---|
| 69.00 | 0.00 | -0.01 | 2.79E+5 | 99 | Passed |
| 112.99 | 0.00 | -0.01 | 6.48E+5 | 100 | Passed |
| 302.00 | -0.01 | -0.01 | 1.16E+5 | 99 | Passed |
| 601.98 | 0.00 | 0.02 | 1.10E+5 | 98 | Passed |
| 1033.99 | 0.00 | -0.01 | 8.41E+5 | 99 | Passed |
| 1333.97 | 0.01 | -0.01 | 1.52E+6 | 99 | Passed |

## MS2 Peak Width Unit, Scan Speed Normal

### *Calibration Information*

| | | | |
|---|---|---|---|
| **Score** | 99 | **Result** | Passed |

### *Calibration Parameters*

| | | | |
|---|---|---|---|
| **MS2 Axis Gain** | 10.67 | **MS2 Axis Offset(amu)** | 0.428 |

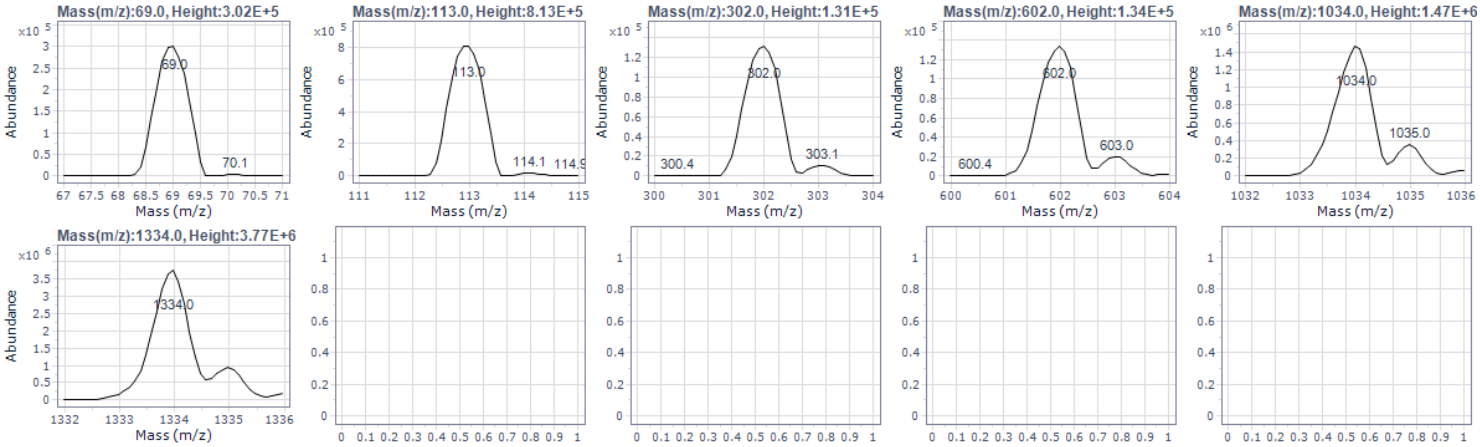
**MS2 Axis Offset Dynamic Table**

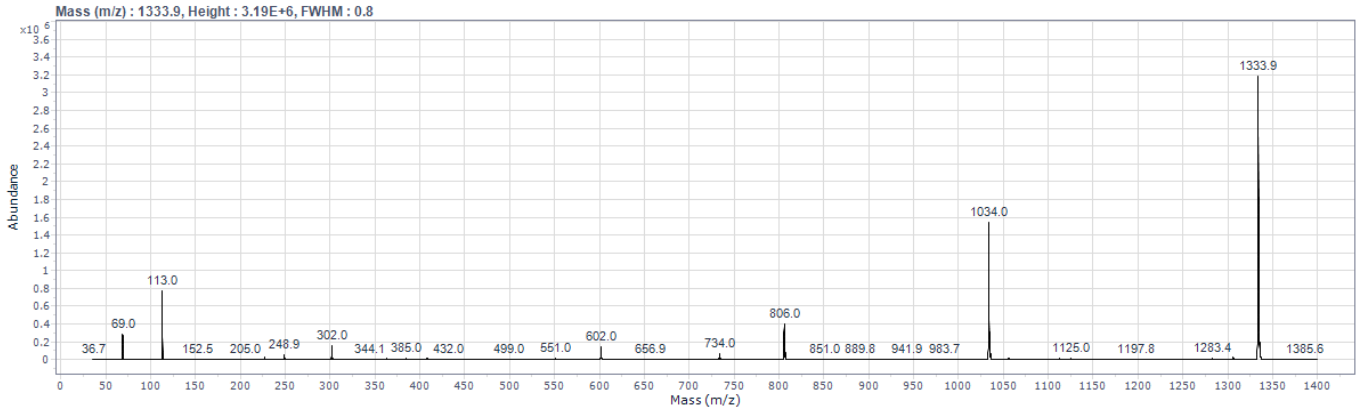
| m/z | Setting |
|---|---|
| 5.0 | 0.536 |
| 70.0 | 0.536 |
| 110.0 | 0.549 |
| 300.0 | 0.664 |
| 600.0 | 0.664 |
| 1030.0 | 0.568 |
| 1330.0 | 0.452 |
| 1400.0 | 0.452 |

| | | | |
|---|---|---|---|
| **MS2 Width Gain(amu)** | -39.8 | **MS2 Width Offset(amu)** | -0.71 |

**MS2 Width Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | -0.69 |
| 70.0 | -0.69 |
| 110.0 | -0.75 |
| 300.0 | -0.88 |
| 600.0 | -0.95 |
| 1030.0 | -0.94 |
| 1330.0 | -0.66 |
| 1400.0 | -0.66 |




**Mass Calibration Results**

| Theoretical (m/z) | Mass Delta(m/z) | Width Delta(m/z) | Abundance | Score | Result |
|---|---|---|---|---|---|
| 69.00 | 0.01 | 0.00 | 2.86E+5 | 98 | Passed |
| 112.99 | 0.01 | 0.01 | 8.10E+5 | 99 | Passed |
| 302.00 | 0.01 | 0.01 | 1.36E+5 | 98 | Passed |
| 601.98 | 0.00 | 0.00 | 1.37E+5 | 100 | Passed |
| 1033.99 | 0.00 | 0.01 | 1.45E+6 | 99 | Passed |
| 1333.97 | 0.00 | -0.01 | 3.71E+6 | 100 | Passed |

## MS1 Peak Width Wide, Scan Speed Normal

### *Calibration Information*

| | | | |
|---|---|---|---|
| **Score** | 100 | **Result** | Passed |

### *Calibration Parameters*

| | | | |
|---|---|---|---|
| **MS1 Axis Gain** | 32.49 | **MS1 Axis Offset(amu)** | 1.116 |

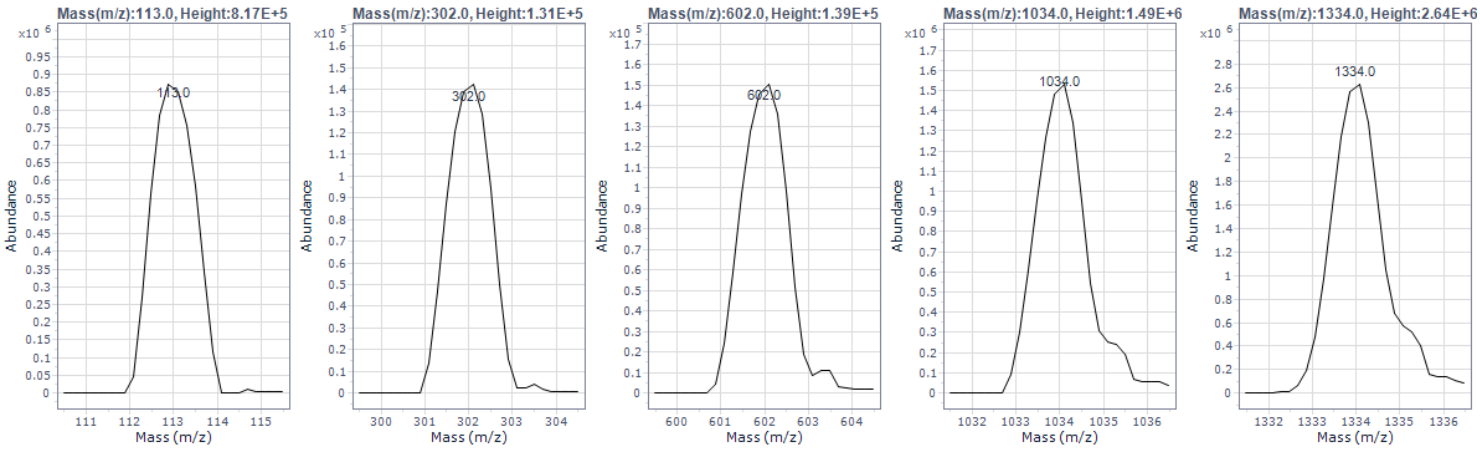
**MS1 Axis Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 1.155 |
| 70.0 | 1.155 |
| 110.0 | 1.155 |
| 300.0 | 1.420 |
| 600.0 | 1.534 |
| 1030.0 | 1.816 |
| 1330.0 | 1.652 |
| 1400.0 | 1.652 |

| | | | |
|---|---|---|---|
| **MS1 Width Gain(amu)** | -40.9 | **MS1 Width Offset(amu)** | -0.18 |

**MS1 Width Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | -0.15 |
| 70.0 | -0.15 |
| 110.0 | -0.15 |
| 300.0 | -0.29 |
| 600.0 | -0.40 |
| 1030.0 | -0.39 |
| 1330.0 | -0.44 |
| 1400.0 | -0.44 |




**Mass Calibration Results**

| Theoretical (m/z) | Mass Delta(m/z) | Width Delta(m/z) | Abundance | Score | Result |
|---|---|---|---|---|---|
| 112.99 | 0.01 | 0.01 | 8.17E+5 | 100 | Passed |
| 302.00 | 0.01 | -0.02 | 1.31E+5 | 100 | Passed |
| 601.98 | 0.00 | 0.01 | 1.39E+5 | 100 | Passed |
| 1033.99 | 0.00 | 0.00 | 1.49E+6 | 100 | Passed |
| 1333.97 | 0.01 | 0.01 | 2.64E+6 | 100 | Passed |

## MS2 Peak Width Wide, Scan Speed Normal

### *Calibration Information*

| | | | |
|---|---|---|---|
| **Score** | 99 | **Result** | Passed |

### *Calibration Parameters*

| | | | |
|---|---|---|---|
| **MS2 Axis Gain** | 9.51 | **MS2 Axis Offset(amu)** | 0.600 |

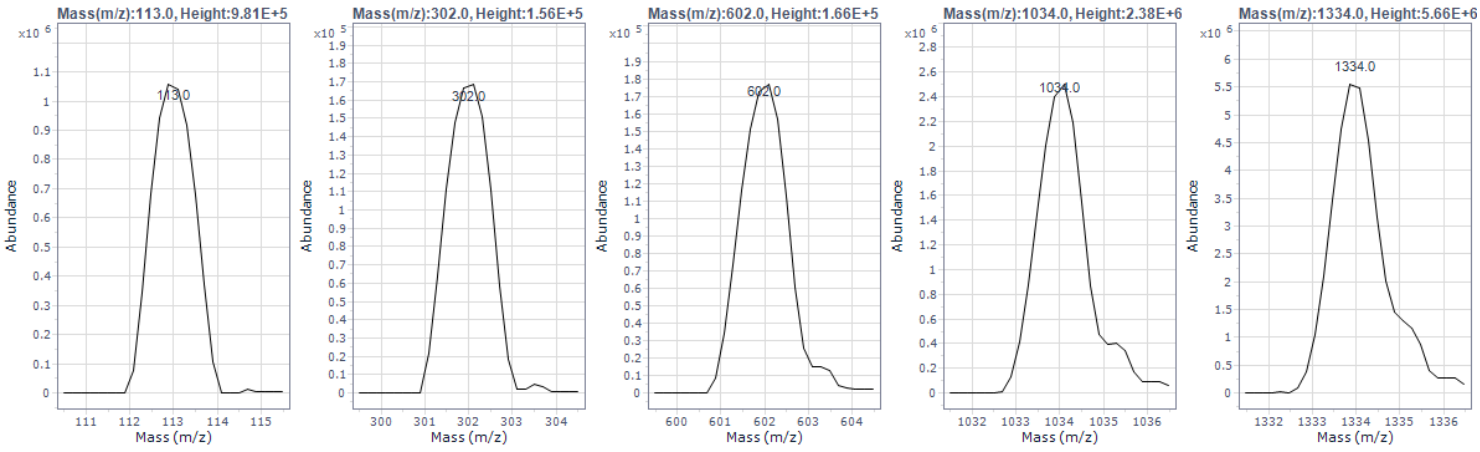
**MS2 Axis Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 0.976 |
| 70.0 | 0.976 |
| 110.0 | 0.976 |
| 300.0 | 1.113 |
| 600.0 | 1.302 |
| 1030.0 | 1.577 |
| 1330.0 | 1.618 |
| 1400.0 | 1.618 |

| | | | |
|---|---|---|---|
| **MS2 Width Gain(amu)** | -40.2 | **MS2 Width Offset(amu)** | -0.70 |

**MS2 Width Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 0.14 |
| 70.0 | 0.14 |
| 110.0 | 0.14 |
| 300.0 | 0.05 |
| 600.0 | 0.00 |
| 1030.0 | 0.10 |
| 1330.0 | 0.37 |
| 1400.0 | 0.37 |




**Mass Calibration Results**

| Theoretical (m/z) | Mass Delta(m/z) | Width Delta(m/z) | Abundance | Score | Result |
|---|---|---|---|---|---|
| 112.99 | 0.00 | -0.01 | 9.81E+5 | 100 | Passed |
| 302.00 | 0.00 | 0.02 | 1.56E+5 | 100 | Passed |
| 601.98 | -0.01 | 0.02 | 1.66E+5 | 99 | Passed |
| 1033.99 | 0.01 | -0.04 | 2.38E+6 | 98 | Passed |
| 1333.97 | -0.01 | -0.03 | 5.66E+6 | 99 | Passed |

## MS1 Peak Width Widest, Scan Speed Normal

### *Calibration Information*

| | | | |
|---|---|---|---|
| **Score** | 98 | **Result** | Passed |

### *Calibration Parameters*

| | | | |
|---|---|---|---|
| **MS1 Axis Gain** | 32.49 | **MS1 Axis Offset(amu)** | 1.116 |

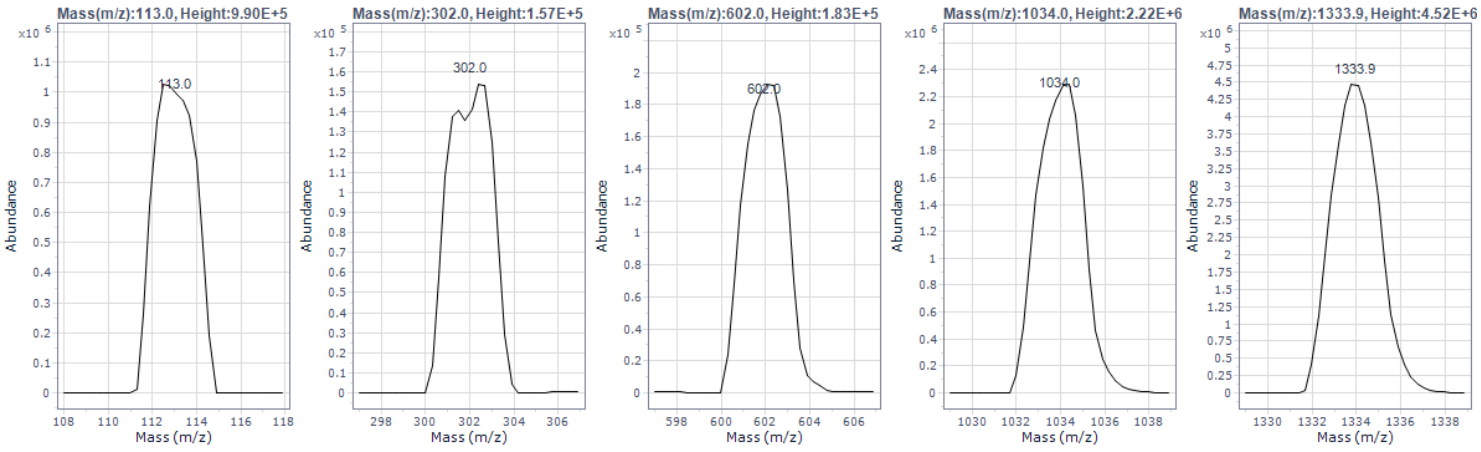
**MS1 Axis Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 2.118 |
| 70.0 | 2.118 |
| 110.0 | 2.118 |
| 300.0 | 2.252 |
| 600.0 | 2.318 |
| 1030.0 | 2.534 |
| 1330.0 | 2.407 |
| 1400.0 | 2.407 |

| | | | |
|---|---|---|---|
| **MS1 Width Gain(amu)** | -40.9 | **MS1 Width Offset(amu)** | -0.18 |

**MS1 Width Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 1.92 |
| 70.0 | 1.92 |
| 110.0 | 1.92 |
| 300.0 | 1.78 |
| 600.0 | 1.70 |
| 1030.0 | 1.92 |
| 1330.0 | 2.06 |
| 1400.0 | 2.06 |




**Mass Calibration Results**

| Theoretical (m/z) | Mass Delta(m/z) | Width Delta(m/z) | Abundance | Score | Result |
|---|---|---|---|---|---|
| 112.99 | 0.01 | -0.03 | 9.90E+5 | 100 | Passed |
| 302.00 | 0.00 | 0.08 | 1.57E+5 | 98 | Passed |
| 601.98 | -0.03 | -0.11 | 1.83E+5 | 96 | Passed |
| 1033.99 | -0.03 | -0.01 | 2.22E+6 | 99 | Passed |
| 1333.97 | -0.05 | 0.01 | 4.52E+6 | 97 | Passed |

## MS2 Peak Width Widest, Scan Speed Normal

### *Calibration Information*

| | | | |
|---|---|---|---|
| **Score** | 99 | **Result** | Passed |

### *Calibration Parameters*

| | | | |
|---|---|---|---|
| **MS2 Axis Gain** | 9.51 | **MS2 Axis Offset(amu)** | 0.600 |

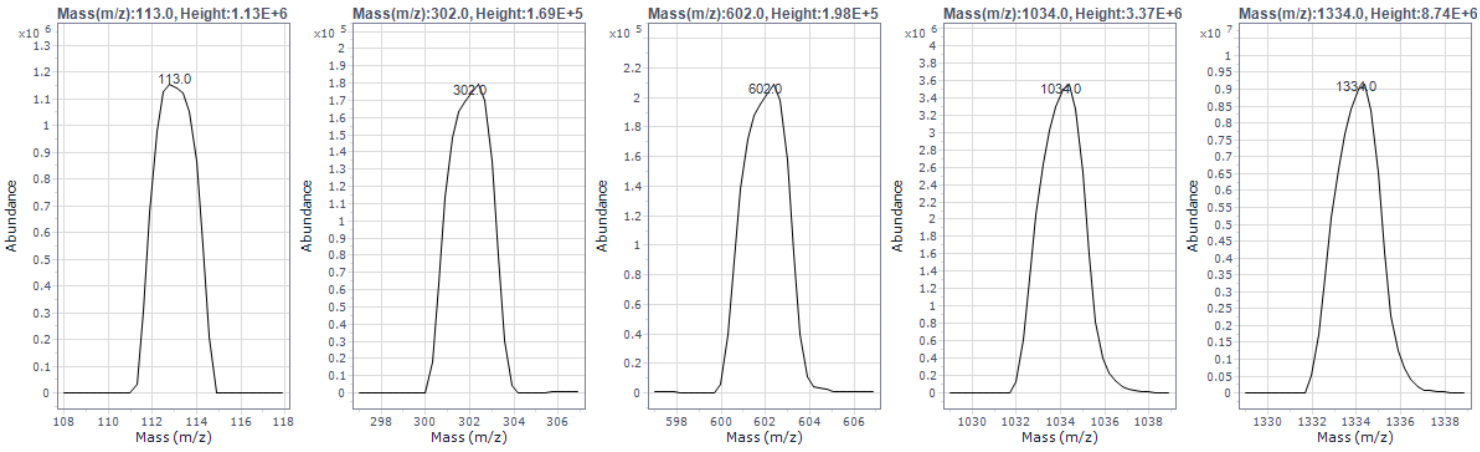
**MS2 Axis Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 1.875 |
| 70.0 | 1.875 |
| 110.0 | 1.875 |
| 300.0 | 1.953 |
| 600.0 | 2.153 |
| 1030.0 | 2.301 |
| 1330.0 | 2.347 |
| 1400.0 | 2.347 |

| | | | |
|---|---|---|---|
| **MS2 Width Gain(amu)** | -40.2 | **MS2 Width Offset(amu)** | -0.70 |

**MS2 Width Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 2.16 |
| 70.0 | 2.16 |
| 110.0 | 2.16 |
| 300.0 | 2.15 |
| 600.0 | 2.28 |
| 1030.0 | 2.38 |
| 1330.0 | 2.75 |
| 1400.0 | 2.75 |




**Mass Calibration Results**

| Theoretical (m/z) | Mass Delta(m/z) | Width Delta(m/z) | Abundance | Score | Result |
|---|---|---|---|---|---|
| 112.99 | 0.01 | -0.05 | 1.13E+6 | 99 | Passed |
| 302.00 | 0.00 | -0.01 | 1.69E+5 | 100 | Passed |
| 601.98 | -0.02 | 0.06 | 1.98E+5 | 99 | Passed |
| 1033.99 | 0.01 | -0.04 | 3.37E+6 | 99 | Passed |
| 1333.97 | 0.02 | -0.05 | 8.74E+6 | 99 | Passed |

## MS2 Scan Speed Fast

### *Calibration Information*

| | | | |
|---|---|---|---|
| **Score** | 98 | **Result** | Passed |

### *Calibration Parameters*

| | | | |
|---|---|---|---|
| **MS2 Axis Gain** | 9.51 | **MS2 Axis Offset(amu)** | 1.781 |

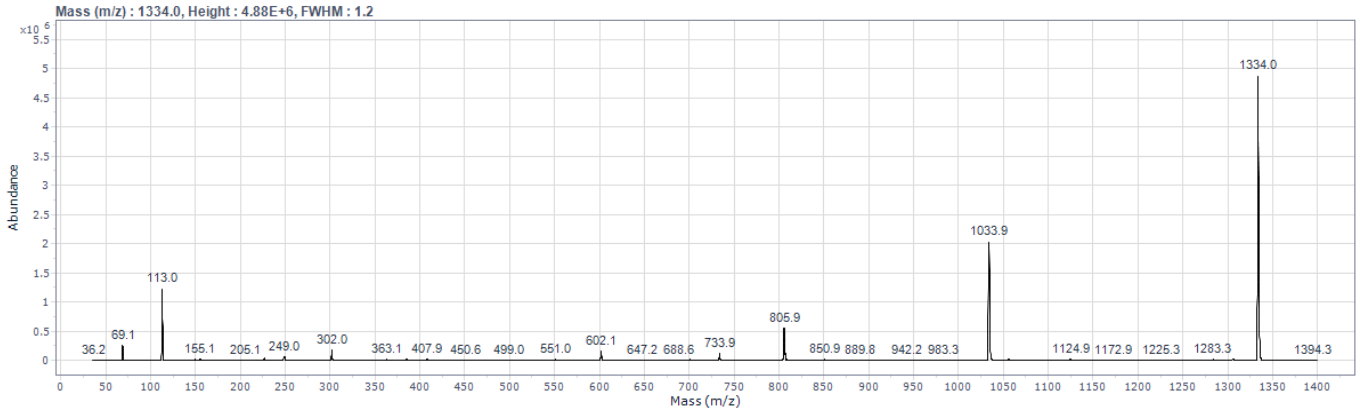
**MS2 Axis Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 1.927 |
| 70.0 | 1.927 |
| 110.0 | 1.927 |
| 300.0 | 2.141 |
| 600.0 | 2.202 |
| 1030.0 | 2.461 |
| 1330.0 | 2.457 |
| 1400.0 | 2.457 |

| | | | |
|---|---|---|---|
| **MS2 Width Gain(amu)** | -42.3 | **MS2 Width Offset(amu)** | 0.94 |

**MS2 Width Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 0.85 |
| 70.0 | 0.85 |
| 110.0 | 0.85 |
| 300.0 | 0.69 |
| 600.0 | 0.40 |
| 1030.0 | 0.87 |
| 1330.0 | 1.13 |
| 1400.0 | 1.13 |




**Mass Calibration Results**

| Theoretical (m/z) | Mass Delta(m/z) | Width Delta(m/z) | Abundance | Score | Result |
|---|---|---|---|---|---|
| 112.99 | 0.02 | -0.03 | 1.21E+6 | 98 | Passed |
| 302.00 | -0.02 | 0.02 | 1.74E+5 | 98 | Passed |
| 601.98 | 0.01 | 0.00 | 1.78E+5 | 100 | Passed |
| 1033.99 | -0.02 | 0.04 | 1.89E+6 | 96 | Passed |
| 1333.97 | 0.01 | -0.01 | 3.82E+6 | 100 | Passed |

## MS2 Scan Speed Ultra

### *Calibration Information*

| | | | |
|---|---|---|---|
| **Score** | 99 | **Result** | Passed |

### *Calibration Parameters*

| | | | |
|---|---|---|---|
| **MS2 Axis Gain** | 10.18 | **MS2 Axis Offset(amu)** | 2.060 |

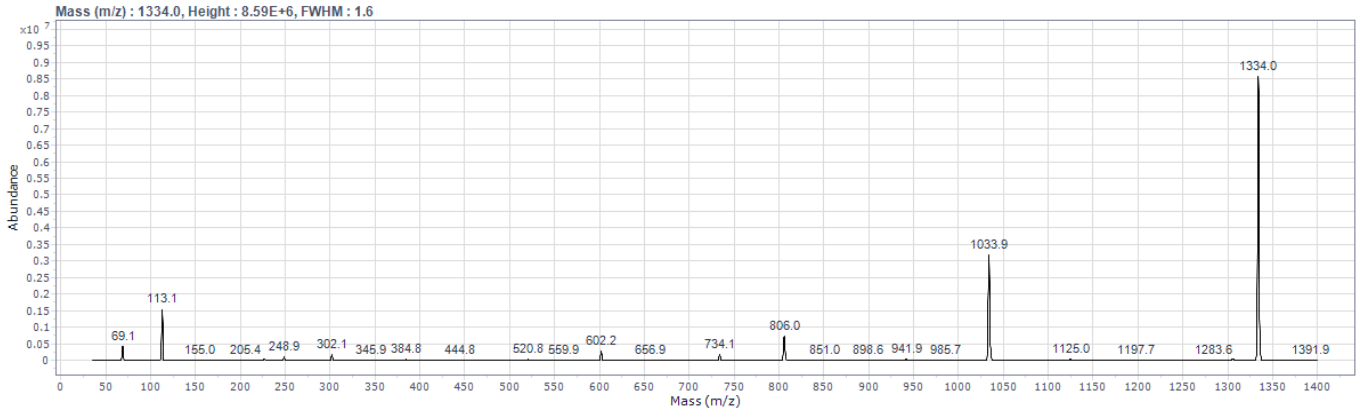
**MS2 Axis Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 3.248 |
| 70.0 | 3.248 |
| 110.0 | 3.248 |
| 300.0 | 3.185 |
| 600.0 | 3.414 |
| 1030.0 | 3.796 |
| 1330.0 | 3.571 |
| 1400.0 | 3.571 |

| | | | |
|---|---|---|---|
| **MS2 Width Gain(amu)** | -43.0 | **MS2 Width Offset(amu)** | 2.36 |

**MS2 Width Offset Dynamic Table**

| m/z | Setting |
|---|---|
| 5.0 | 3.43 |
| 70.0 | 3.43 |
| 110.0 | 3.43 |
| 300.0 | 2.90 |
| 600.0 | 2.81 |
| 1030.0 | 3.65 |
| 1330.0 | 4.00 |
| 1400.0 | 4.00 |




**Mass Calibration Results**

| Theoretical (m/z) | Mass Delta(m/z) | Width Delta(m/z) | Abundance | Score | Result |
|---|---|---|---|---|---|
| 112.99 | 0.02 | 0.05 | 1.32E+6 | 99 | Passed |
| 302.00 | -0.03 | -0.03 | 2.04E+5 | 99 | Passed |
| 601.98 | 0.03 | 0.02 | 2.19E+5 | 99 | Passed |
| 1033.99 | 0.06 | -0.03 | 3.39E+6 | 98 | Passed |
| 1333.97 | 0.01 | -0.05 | 7.27E+6 | 99 | Passed |

## Vacuum And Temperature

| | | | |
|---|---|---|---|
| **Rough Vac(Torr)** | 1.56E+0 | **High Vac(Torr)** | 5.90E-5 |
| **Turbo Speed(%)** | 99.9 | **MS1 Heater(°C)** | 65 |
| **MS2 Heater(°C)** | 65 | | |