

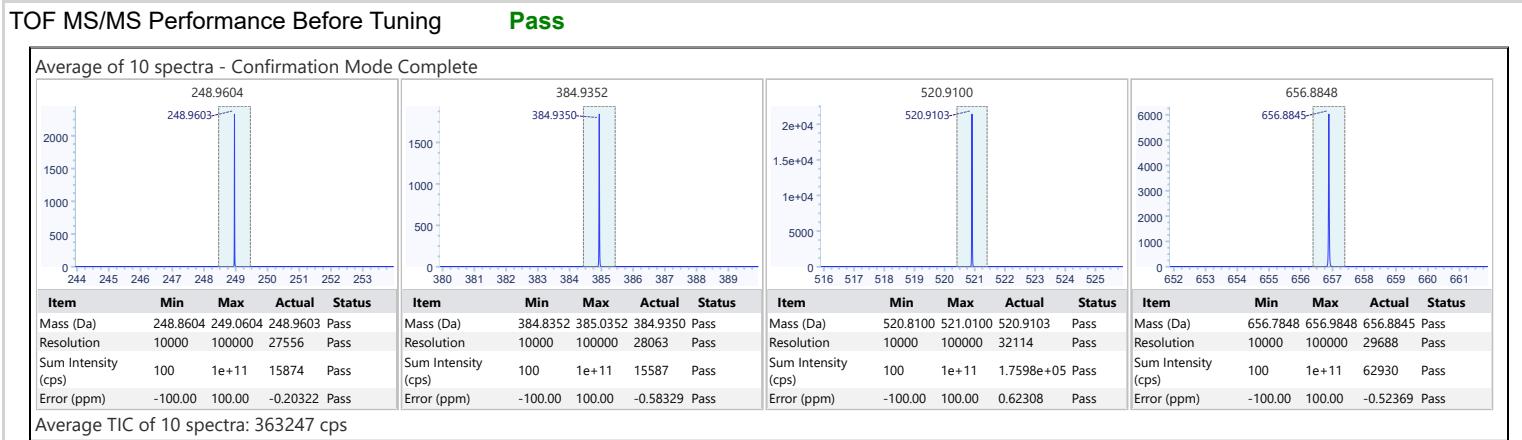
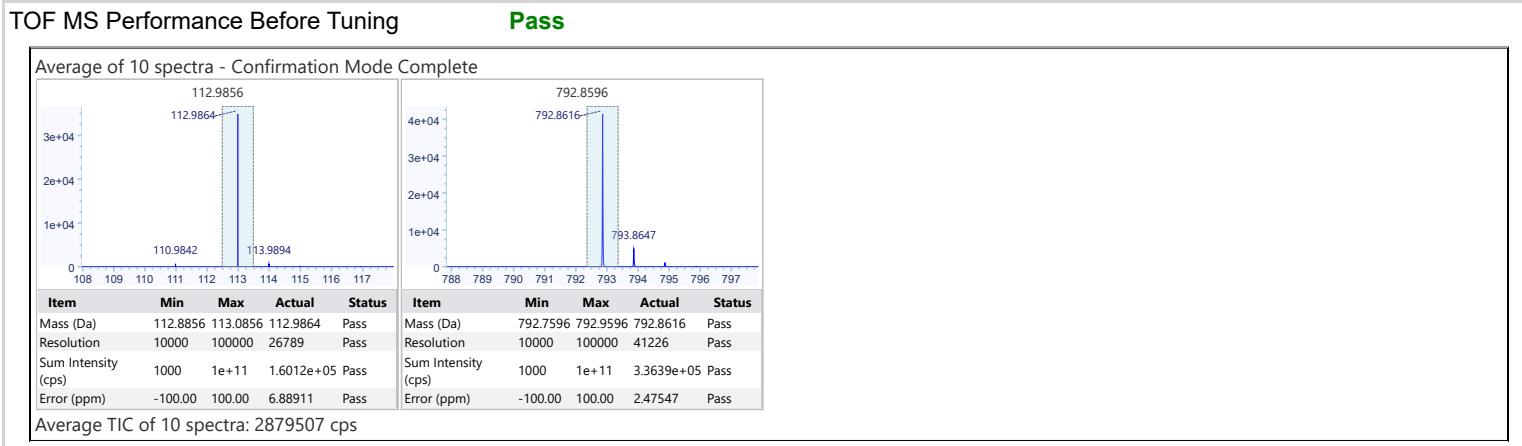
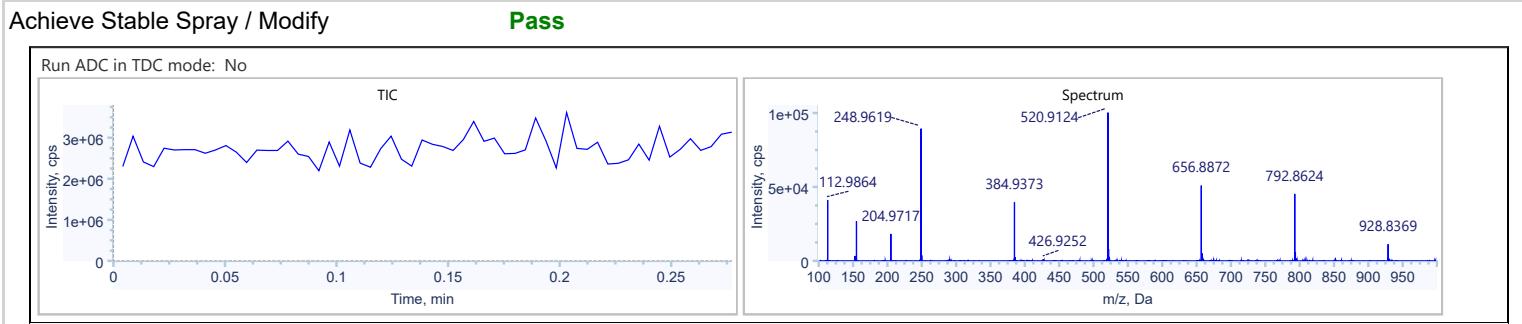
Instrument Name: ZenoTOF™ 7600 System
Instrument Model: ZenoTOF 7600 System
Ion Source: OptiFlow 50-200 μ L Micro/MicroCal
Serial Number: FB24962403

Manufacturer: AB Sciex
Target Instrument: ZenoTOF 7600 System
Optimization Set: Negative TOF Tuning

1. Negative TOF Tuning

Step	Result	Details
Introduction	Pass	Automated Tuning Process

Tuning Process Automated Manual



Instrument Name: ZenoTOF™ 7600 System
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Initial TOF MS Mass Calibration

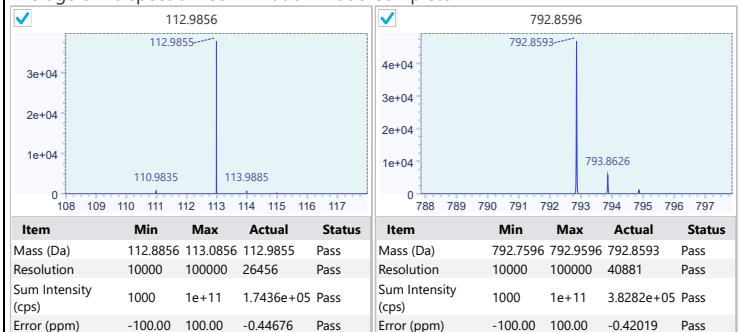
Pass

Slope: 0.000490131929225914, previous was

0.000490131857605606

Delay: -13.5609627224571, previous was -13.6388722201564

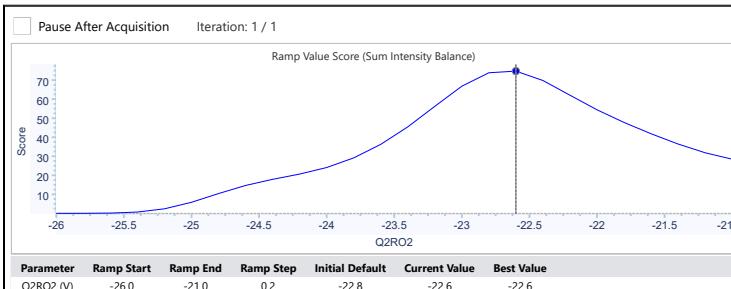
Average of 10 spectra - Confirmation Mode Complete



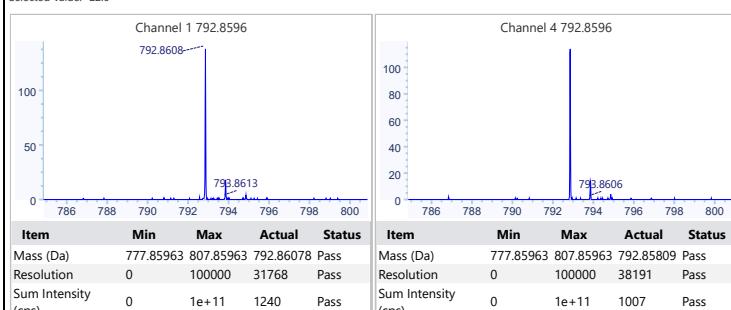
Collision Cell DC Offset Tune

Pass

Found best Q2RO2 value of -22.6



Best Value Criteria: The value with the highest sum intensity and meets all specifications
Selected Value: -22.6



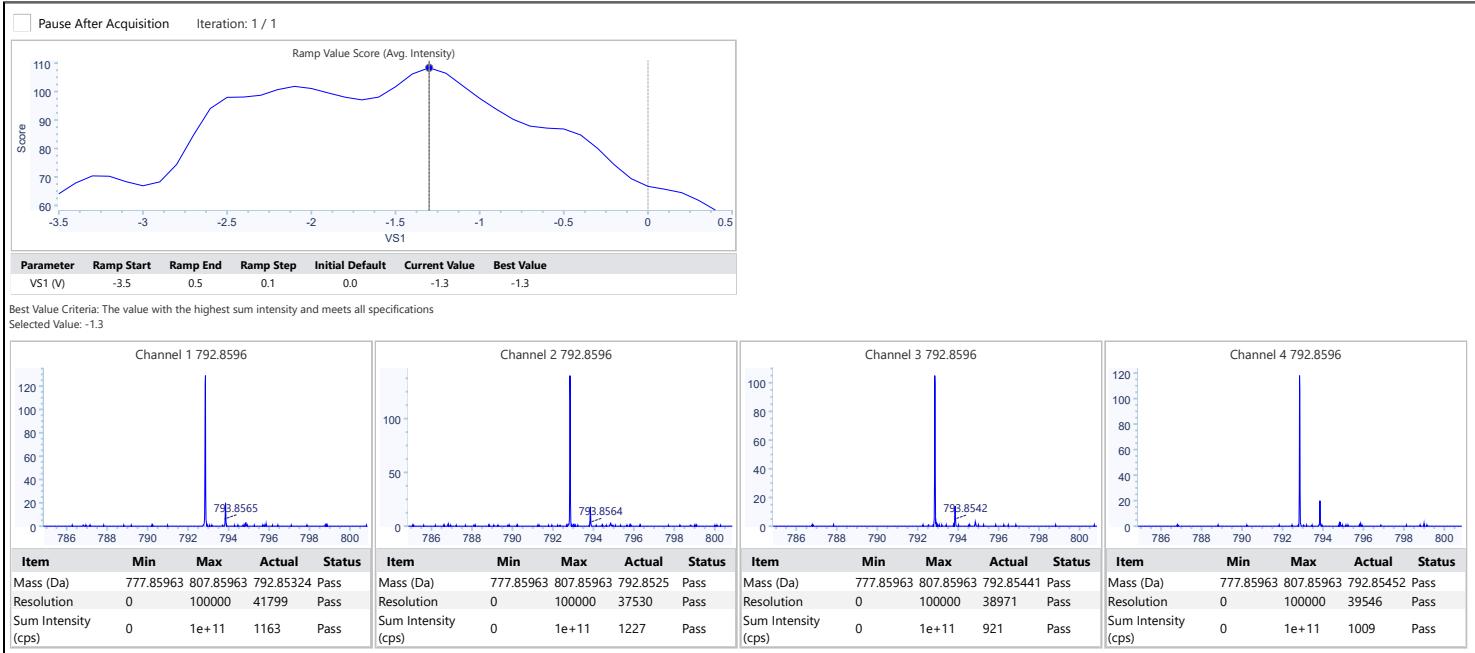
Current ITC: 1
Optimal ITC: 1
ITC Adjustment Attempt Count: 1 / 5
Pulsar Frequency: 14669.64
Sum Intensity Target Range: 880 ~ 5134
Highest Sum Intensity Target: 2934
Highest Sum Intensity Found: 1907
Attempt Result: Optimum ITC value of 1 is found as the highest sum intensity of 1907 meets the range requirement of 880 ~ 5134 and the data quality specifications for all channels are met.

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Initial Vertical Steering Tune

Pass

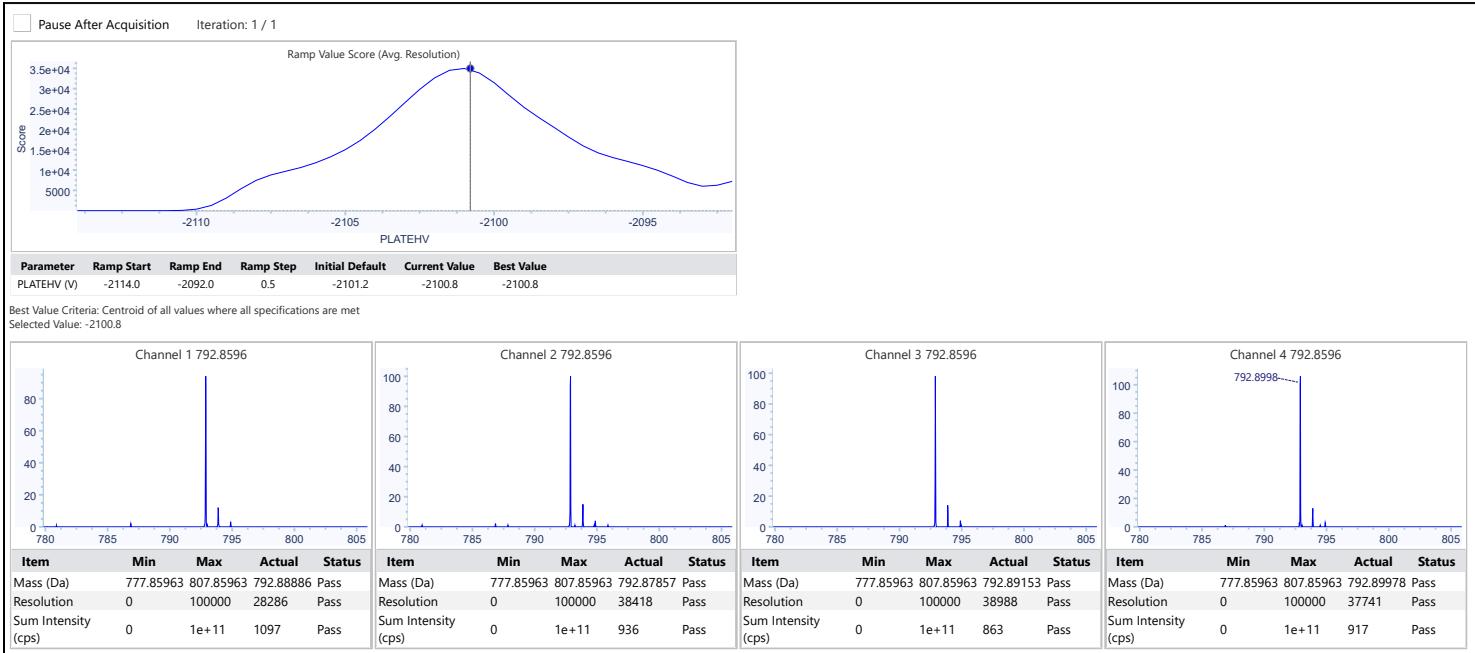
Found best VS1 value of -1.3



Coarse Mirror Plate Tune

Pass

Found best PLATEHV value of -2100.8



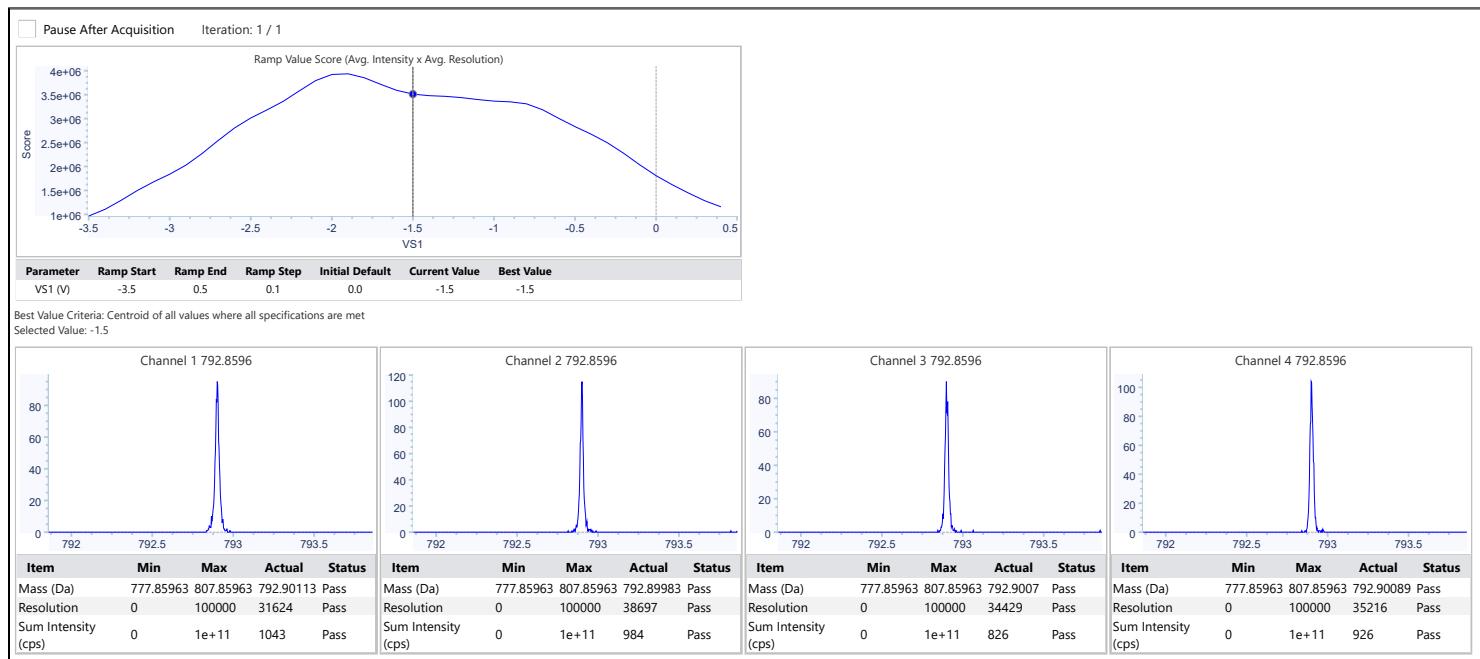
Instrument Name: ZenoTOF™ 7600 System
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Manufacturer: AB Sciex
Target Instrument: ZenoTOF 7600 System
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Final Vertical Steering Tune

Pass

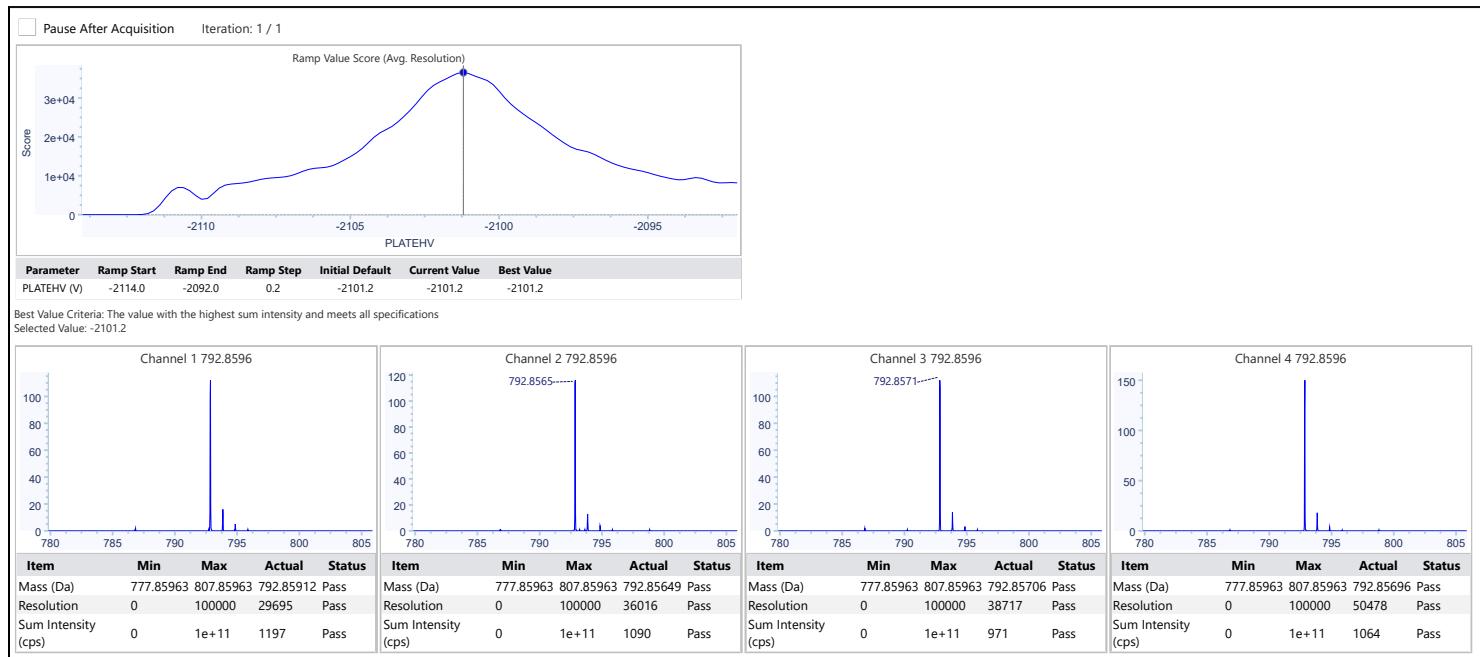
Found best VS1 value of -1.5



Fine Mirror Plate Tune

Pass

Found best PLATEHV value of -2101.2



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Manufacturer: AB Sciex

Instrument Model: ZenoTOF 7600 System

Target Instrument: ZenoTOF 7600 System

Ion Source: OptiFlow 50-200µL Micro/MicroCal

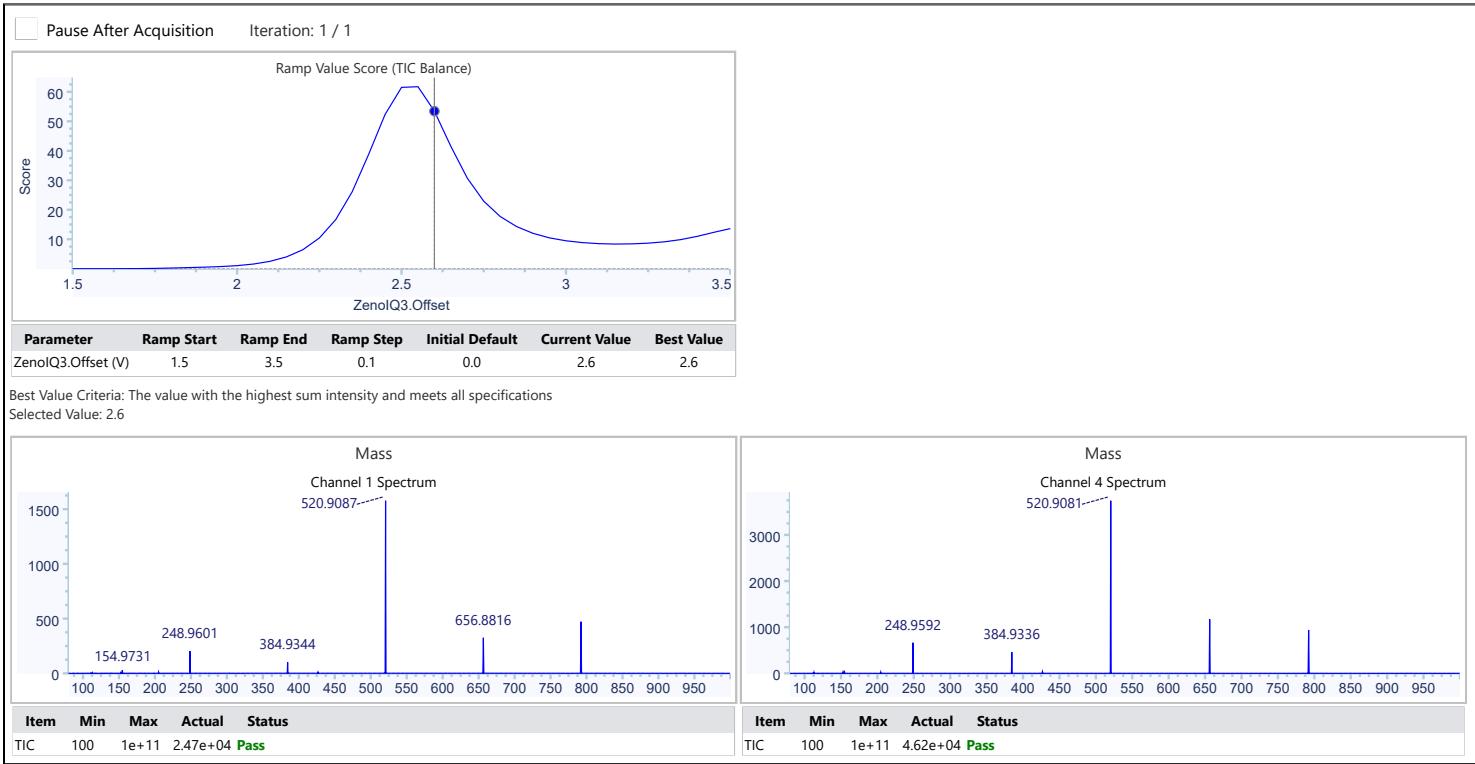
Optimization Set: Negative TOF Tuning

Serial Number: FB24962403

TOF IQ3 Ramp Zeno ON

Pass

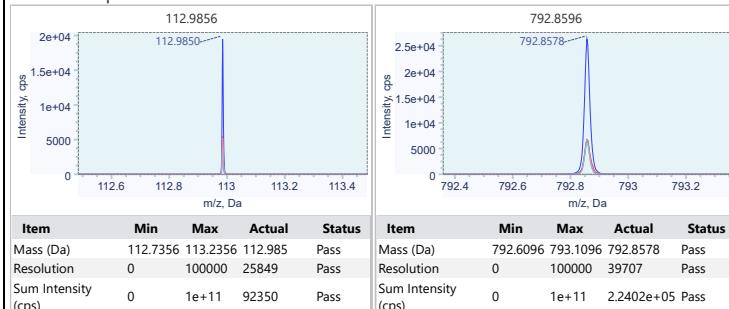
Found best ZenolQ3.Offset value of 2.6



Channel Alignment

Pass

Sum of 10 spectra



Align to channel: 2 Result: Pass

Item	Min	Max	Initial	Actual	Status
Channel 1 vs. 2 Slope	-50	50	-0.012698493	-0.007800359	Pass
Channel 1 vs. 2 Intercept	-50	50	-10.216049338	-11.77802964	Pass
Channel 3 vs. 2 Slope	-50	50	-0.057955203	-0.053343164	Pass
Channel 3 vs. 2 Intercept	-50	50	-3.176310315	-4.213645396	Pass
Channel 4 vs. 2 Slope	-50	50	-0.15926642	-0.157249198	Pass
Channel 4 vs. 2 Intercept	-50	50	8.172159122	7.873343106	Pass

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TOF MS Mass Calibration

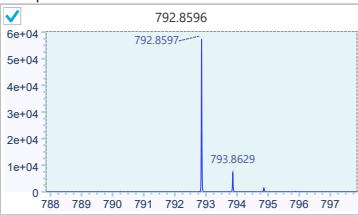
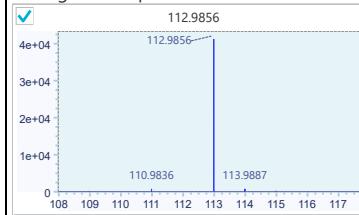
Pass

Slope: 0.000490132112360992, previous was

0.000490131857605606

Delay: -13.5959652503918, previous was -13.6388722201564

Average of 10 spectra - Confirmation Mode Complete



Item	Min	Max	Actual	Status
Mass (Da)	112.8856	113.0856	112.9856	Pass
Resolution	10000	100000	26767	Pass
Sum Intensity (cps)	1000	1e+11	1.8774e+05	Pass
Error (ppm)	-2.00	2.00	0.08624	Pass

Item	Min	Max	Actual	Status
Mass (Da)	792.7596	792.9596	792.8597	Pass
Resolution	10000	100000	41177	Pass
Sum Intensity (cps)	1000	1e+11	4.6702e+05	Pass
Error (ppm)	-2.00	2.00	0.18813	Pass

TOF MS/MS Mass Calibration

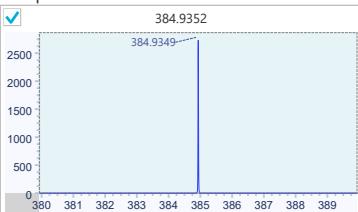
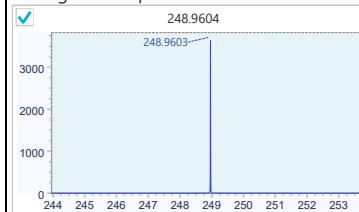
Pass

Slope: 0.000490131131414664, previous was

0.000490131103129899

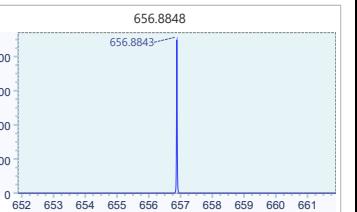
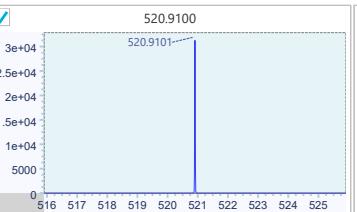
Delay: -13.6639770194655, previous was -13.639609378938

Average of 10 spectra - Confirmation Mode Complete



Item	Min	Max	Actual	Status
Mass (Da)	248.8604	249.0604	248.9603	Pass
Resolution	10000	100000	29128	Pass
Sum Intensity (cps)	100	1e+11	23379	Pass
Error (ppm)	-2.00	2.00	-0.36019	Pass

Item	Min	Max	Actual	Status
Mass (Da)	384.8352	385.0352	384.9349	Pass
Resolution	10000	100000	28187	Pass
Sum Intensity (cps)	100	1e+11	22843	Pass
Error (ppm)	-2.00	2.00	-0.73731	Pass



Item	Min	Max	Actual	Status
Mass (Da)	520.8100	521.0100	520.9101	Pass
Resolution	10000	100000	32566	Pass
Sum Intensity (cps)	100	1e+11	2.5088e+05	Pass
Error (ppm)	-2.00	2.00	0.27203	Pass

Item	Min	Max	Actual	Status
Mass (Da)	656.7848	656.9848	656.8843	Pass
Resolution	10000	100000	30987	Pass
Sum Intensity (cps)	100	1e+11	89050	Pass
Error (ppm)	-2.00	2.00	-0.70845	Pass

TOF MS/MS Mass Calibration Zeno On

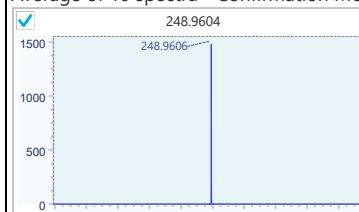
Pass

Slope: 0.000490131870384274, previous was

0.000490131186820918

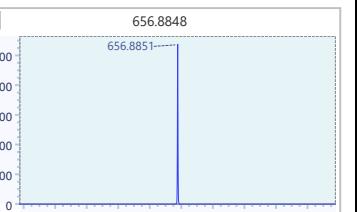
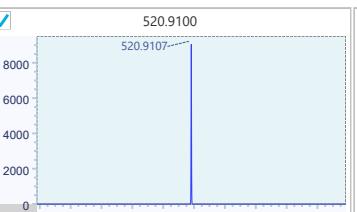
Delay: -13.6320685178404, previous was -13.6242092425316

Average of 10 spectra - Confirmation Mode Complete



Item	Min	Max	Actual	Status
Mass (Da)	248.8604	249.0604	248.9606	Pass
Resolution	10000	100000	32152	Pass
Sum Intensity (cps)	100	1e+11	8320.4	Pass
Error (ppm)	-2.00	2.00	0.83961	Pass

Item	Min	Max	Actual	Status
Mass (Da)	384.8352	385.0352	384.9354	Pass
Resolution	10000	100000	33206	Pass
Sum Intensity (cps)	100	1e+11	6754.8	Pass
Error (ppm)	-2.00	2.00	0.46603	Pass



Item	Min	Max	Actual	Status
Mass (Da)	520.8100	521.0100	520.9107	Pass
Resolution	10000	100000	32758	Pass
Sum Intensity (cps)	100	1e+11	68885	Pass
Error (ppm)	-2.00	2.00	1.35483	Pass

Item	Min	Max	Actual	Status
Mass (Da)	656.7848	656.9848	656.8851	Pass
Resolution	10000	100000	34036	Pass
Sum Intensity (cps)	100	1e+11	22872	Pass
Error (ppm)	-2.00	2.00	0.41248	Pass

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TOF MS Performance After Tuning

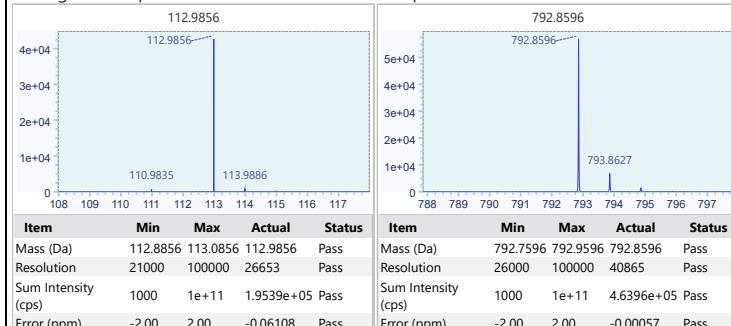
Pass

Slope: 0.000490132112360992, previous was

0.000490131857605606

Delay: -13.5959652503918, previous was -13.6388722201564

Average of 10 spectra - Confirmation Mode Complete



Average TIC of 10 spectra: 3765373 cps

TOF MS/MS Performance After Tuning

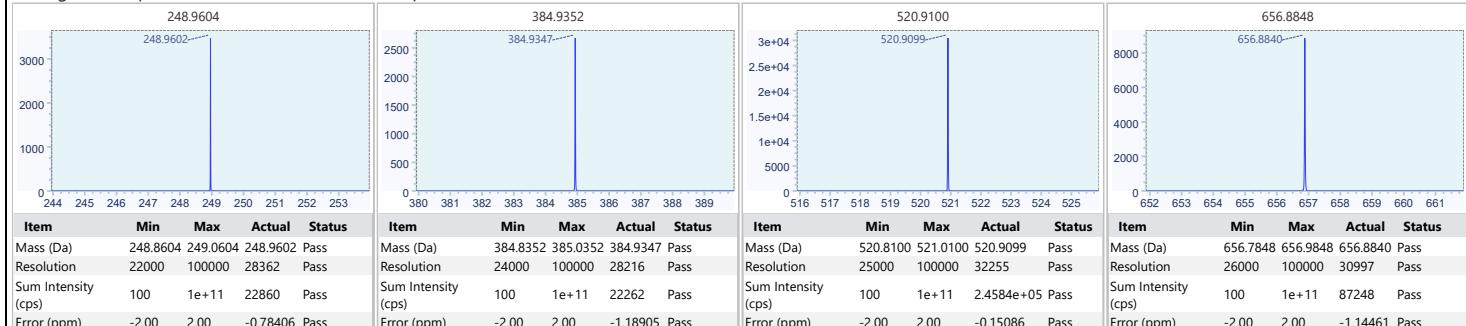
Pass

Slope: 0.000490131131414664, previous was

0.000490131103129899

Delay: -13.6639770194655, previous was -13.639609378938

Average of 10 spectra - Confirmation Mode Complete



Average TIC of 10 spectra: 502483 cps