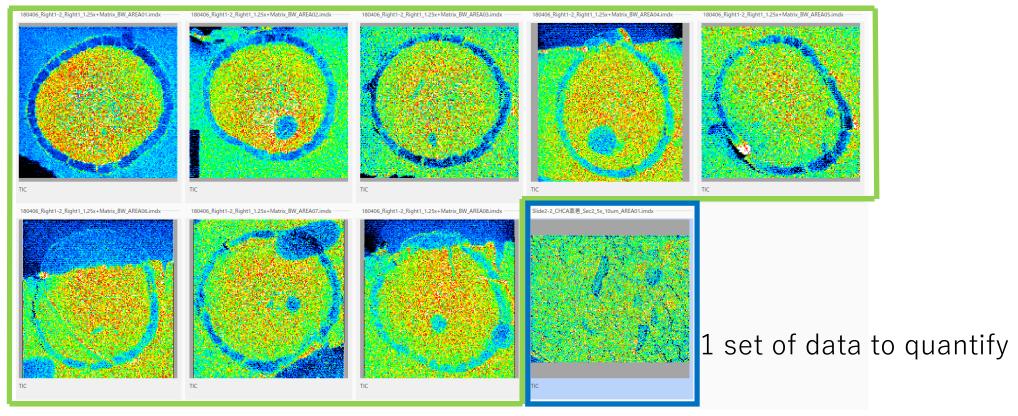
Carrying out quantitative analysis

Necessary data

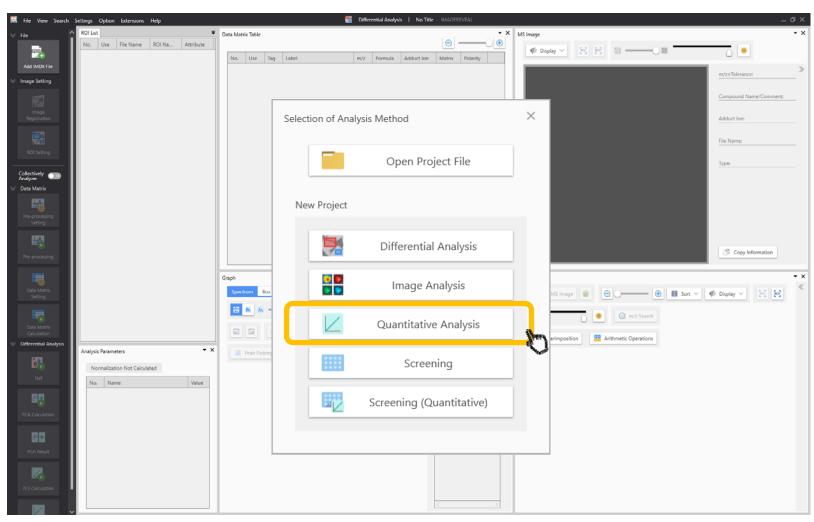
- Calibration curve data and information
- Data that you want to quantify
- *Data can be contained in one file or split into several
- *Please register target compounds and compound templates beforehand (see "How to register compound templates")

Example data: split into multiple files

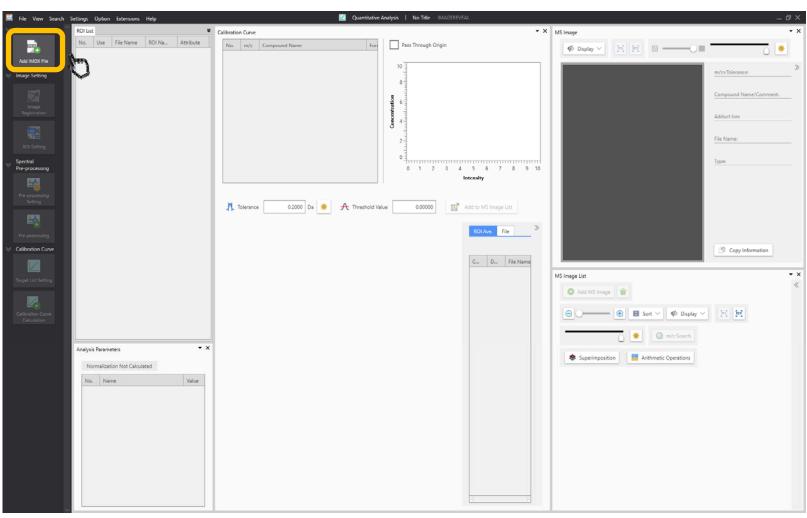


8 sets of data for calibration curves

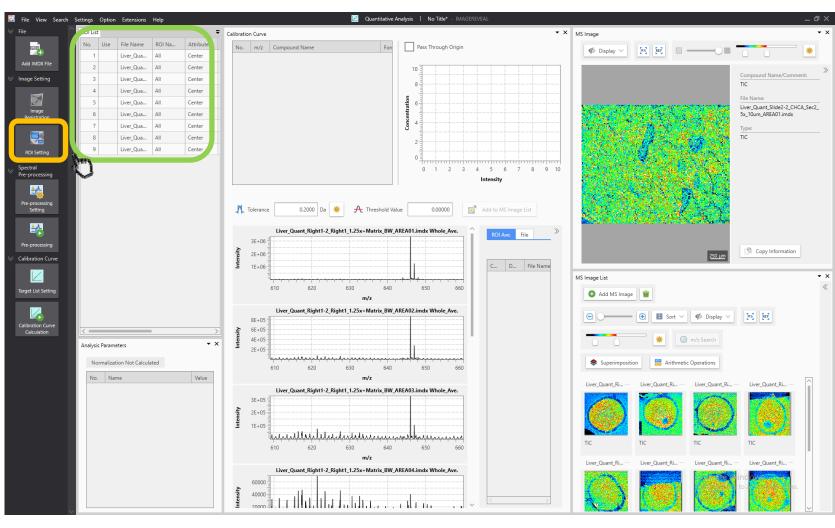
Select "Quantitative Analysis"



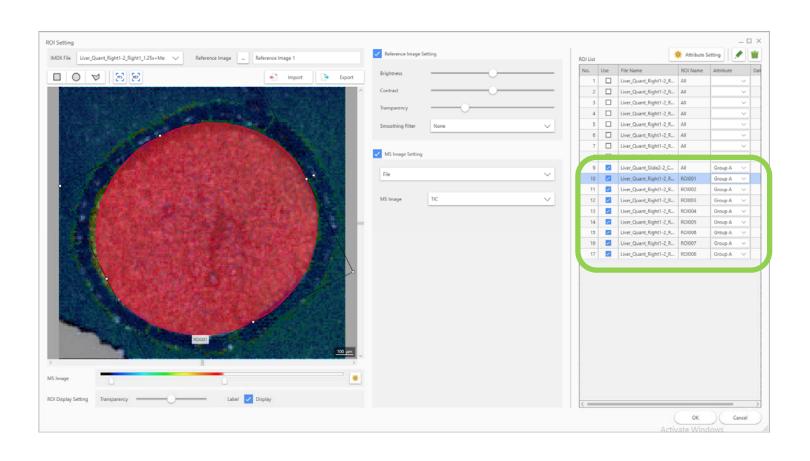
Quantitative Analysis screen: Add IMDX files



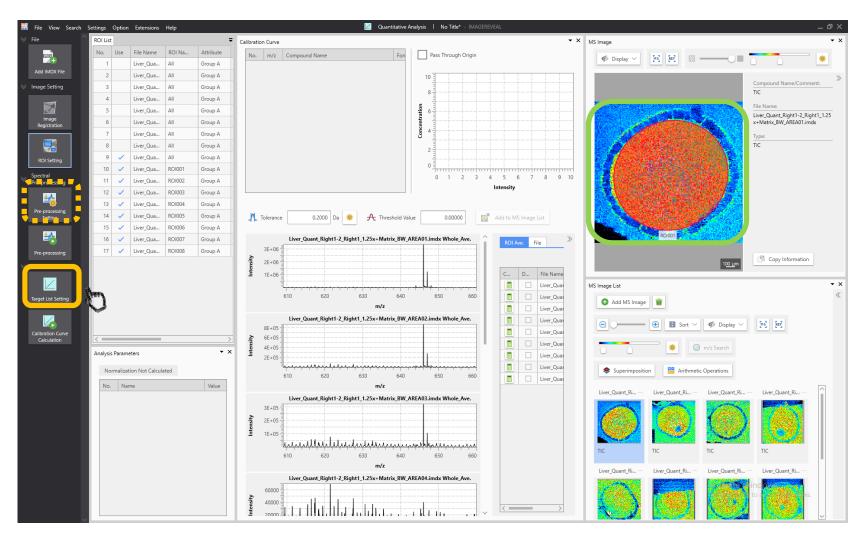
The data files are imported



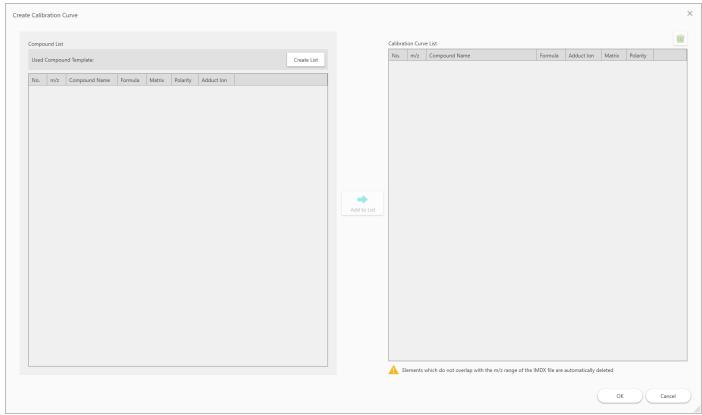
Set ROIs for each calibration curve sample



ROIs have been set

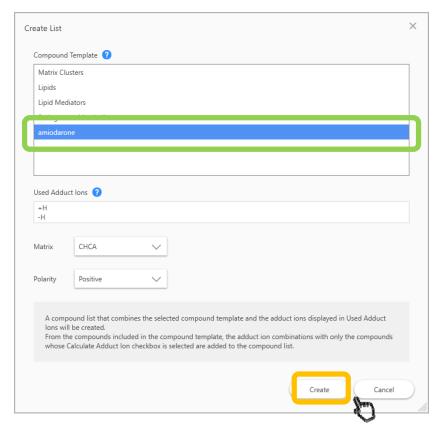


Target compound settings 1



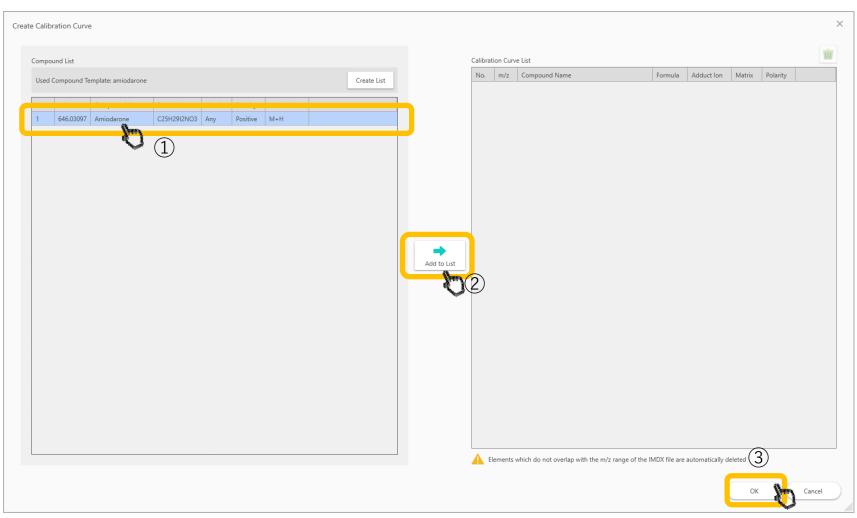
Please register target compounds and compound templates beforehand (see "How to register compound templates")

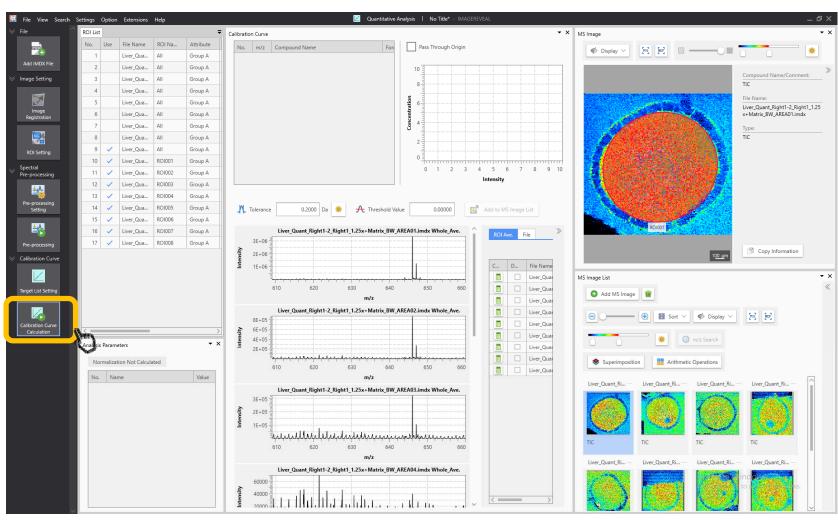
Target compound settings 2

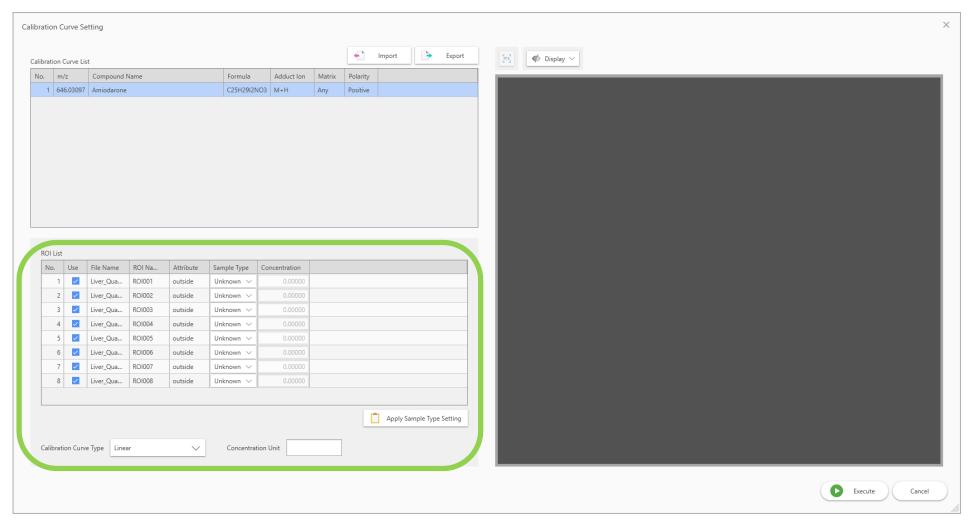


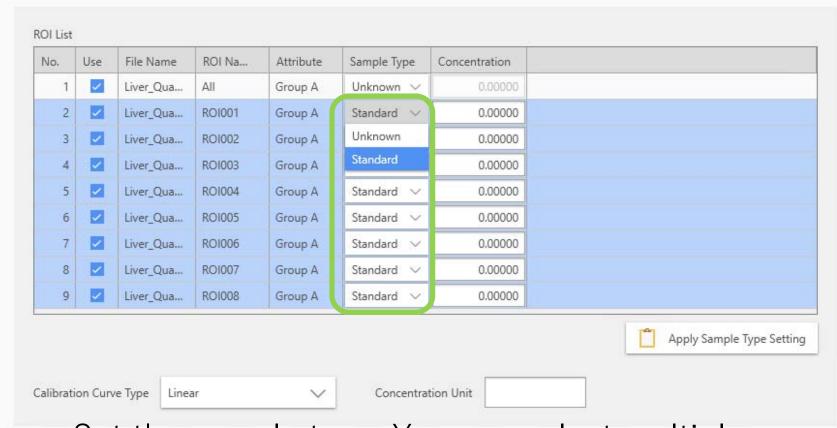
Select a previously-created compound template

Target compound settings 3



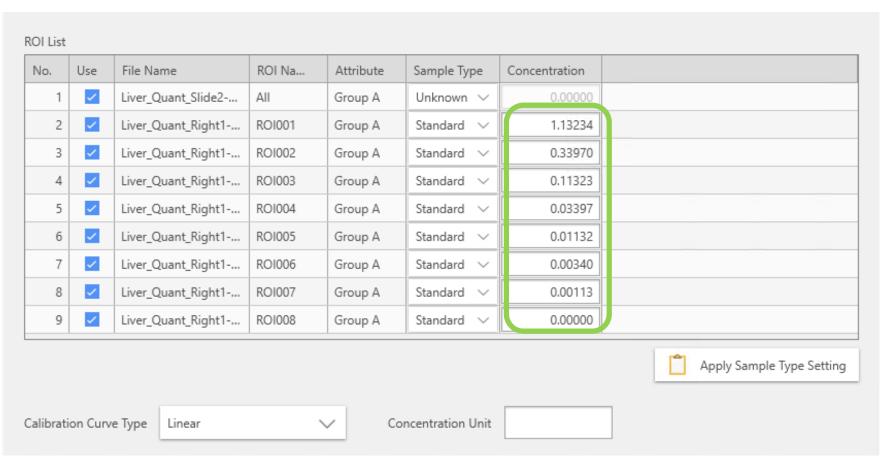






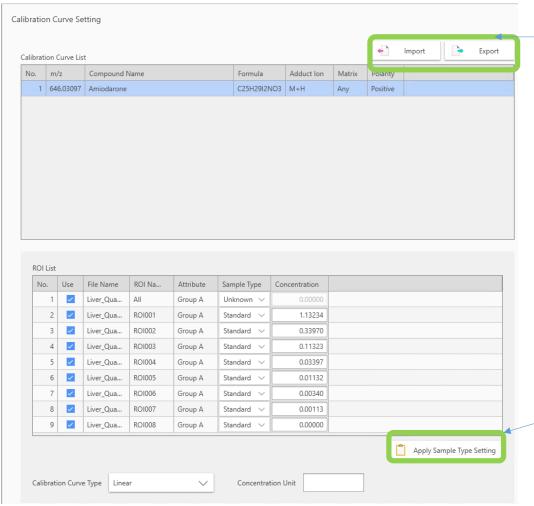
Set the sample type. You can select multiple rows and apply a setting to all of them.





Enter the concentration of the calibration curve samples

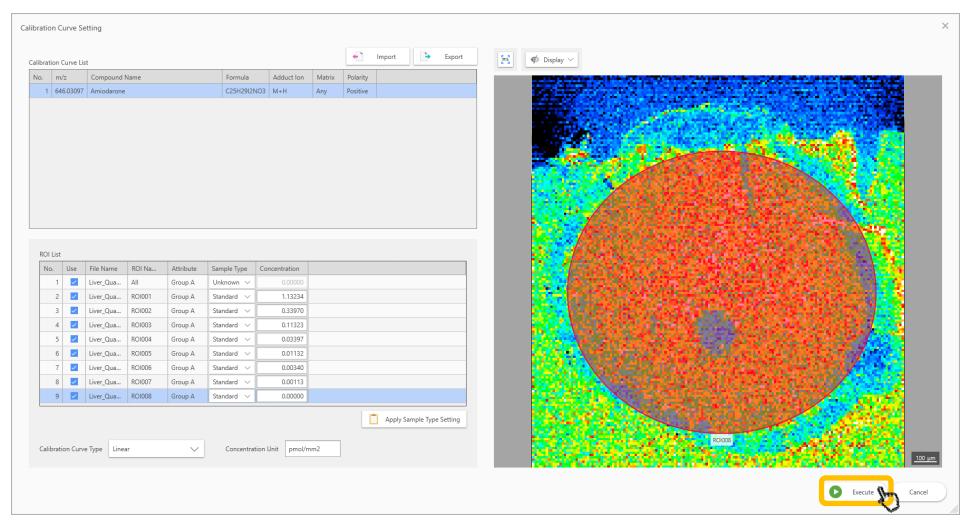
Calibration curve settings 5: Faster settings



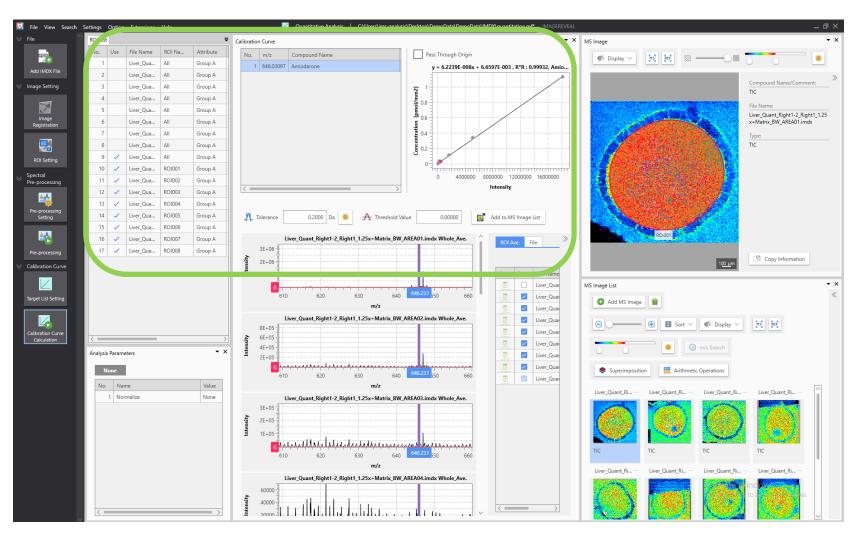
Import a CSV file to automatically enter calibration curve concentrations

	А	В	С	D	Е	F	(
1	646.031	Amiodaror	ne				
2		Slide2-2_0	AII	Group A	Unknown	0	
3		180406_Ri	ROI001	Group A	Standard	1.13234	
4		180406_Ri	ROI002	Group A	Standard	0.3397	
5		180406_Ri	ROI003	Group A	Standard	0.11323	
6		180406_Ri	ROI004	Group A	Standard	0.03397	
7		180406_Ri	ROI005	Group A	Standard	0.01132	
8		180406_Ri	ROI006	Group A	Standard	0.0034	
9		180406_Ri	ROI007	Group A	Standard	0.00113	
10		180406_Ri	ROI008	Group A	Standard	0	
11	611.0073	610					
12		Slide2-2_0	All	Group A	Unknown	0	
13		180406_Ri	ROI001	Group A	Standard	0.5	

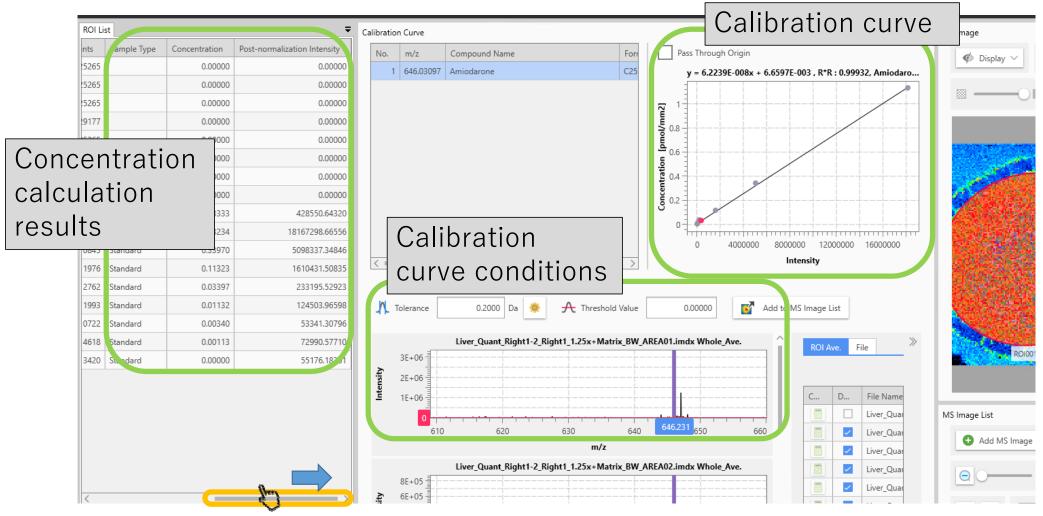
If there are multiple target compounds, you can apply a setting to them all at once.



Calibration curve results



Quantitation results 1



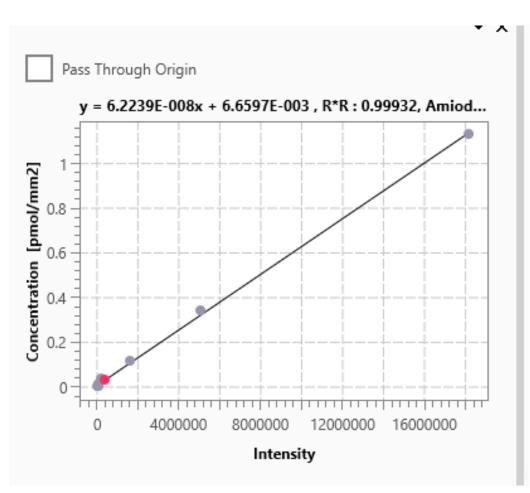
Quantitation results 2: Concentration calculations

ings	Option Extens	sions Help			ا	 Quantitative Ar 	nalysis C:\Users\ims-analy
OI List							
Use	File Name	ROI Na	Attribute	Data Points	Sample Type	Concentration	Post-normalization Intensity
	Liver_Qua	All	Group A	25265		0.00000	0.000.0
	Liver_Qua	All	Group A	25265		0.00000	0.0000
	Liver_Qua	All	Group A	25265		0.00000	0.0000
	Liver_Qua	All	Group A	29177		0.00000	0.0000
	Liver_Qua	All	Group A	25265		0.00000	0.0000
	Liver_Qua	All	Group A	28036		0.00000	0.0000
	Liver_Qua	All	Group A	28036		0.00000	0.0000
	Liver_Qua	All	Group A	28036		0.00000	0.000.0
1	Liver_Qua	All	Group A	50000	Unknown	0.03333	428550.6432
1	Liver_Qua	ROI001	Group A	12101	Standard	1.13234	18167298.6655
/	Liver_Qua	ROI002	Group A	10845	Standard	0.33970	5098337.3484
~	Liver_Qua	ROI003	Group A	11976	Standard	0.11323	1610431.5083
/	Liver_Qua	ROI004	Group A	12762	Standard	0.03397	233195.5292
/	Liver_Qua	ROI005	Group A	11993	Standard	0.01132	124503.9659
/	Liver_Qua	ROI006	Group A	10722	Standard	0.00340	53341.3079
/	Liver_Qua	ROI007	Group A	14618	Standard	0.00113	72990.5771
/	Liver_Qua	ROI008	Group A	13420	Standard	0.00000	55176.1836

Calculation results are displayed in the ROI list.

In this example, the peak concentration value in the average spectrum of the unknown sample is 0.03333

Quantitation results 3: Calibration curve



The calibration curve is shown.

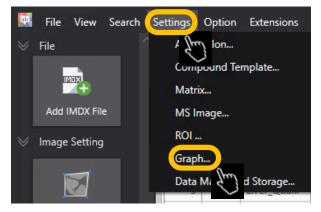
Grey points are the standards used for calibration and the red point is the unknown sample.

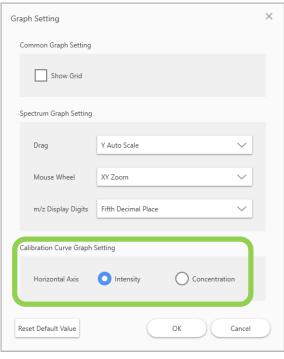
This result will change depending on the calibration curve conditions.

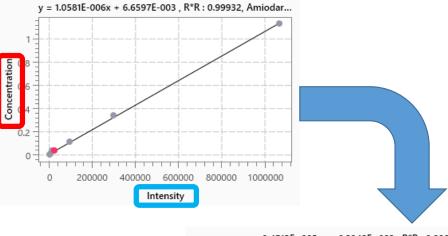
Quantitation results 3 .1: Calibration curve options

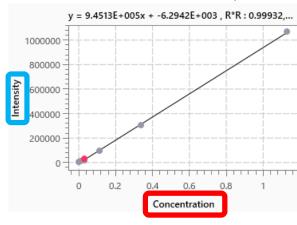
The axes of the calibration curve graph can be swapped.

Select "Settings" then "Graph".









Quantitation results 4: Calibration curve conditions



When calculating the peak area, you can change the "tolerance" and "threshold value" shown above the spectrum. This in turn changes the calculation results.

Cautions

- When handling multiple data sets in Quantitative Analysis mode, it is assumed that the sampling interval is the same for all.
- Check the sampling interval by right-clicking on the ROI list and selecting "Show File Parameter", then looking under "Conversion Parameter".