

If a box plot doesn't appear

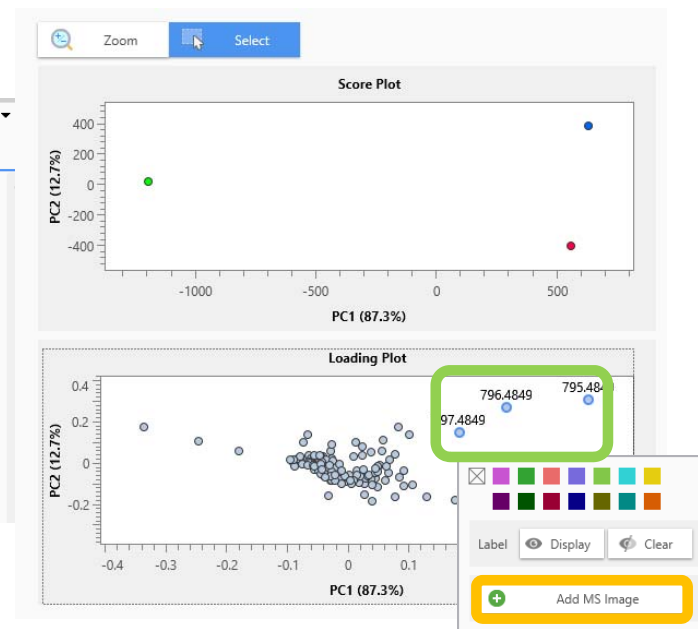
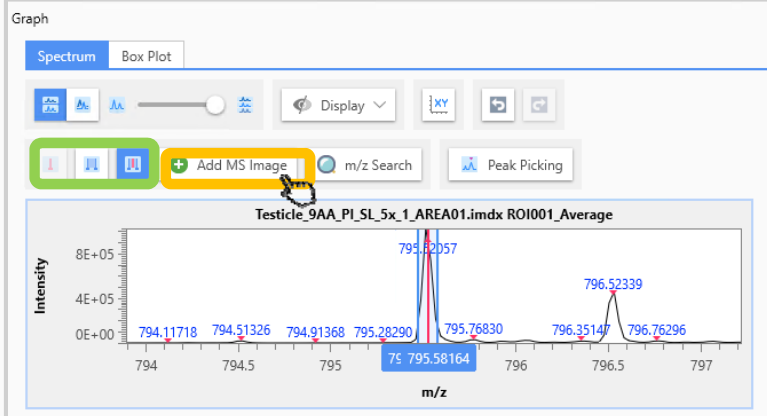
To create a box plot

- First, it is necessary to create an MS image
- Steps
 1. Select the m/z range that you want to make a box plot for from the data matrix table / spectrum / graph etc.
(Right-click and select “Add MS Image”)
 2. The MS image is added to the “MS Image List” in the main window
(Select the target m/z range from the “MS Image List”)
 3. A box plot and histograms of the selected m/z range are displayed on the graph tab

1. Select the m/z range that you want to make a box plot for from the data matrix table / spectrum / graph etc.

Data Matrix Table

No.	Use	Tag	Label	cal Axis	ROI001	ROI002	ROI003
			PCA-Horizontal Axis		5.600e+002	6.339e+002	-1.194e+003
			PCA-Vertical Axis		-4.021e+002	3.859e+002	1.624e+001
186	<input checked="" type="checkbox"/>		884.984-885.9849	734e-001	52242.364	91789.399	285789.467
187	<input checked="" type="checkbox"/>		886.984				157633.888
188	<input checked="" type="checkbox"/>		887.984				82594.137
189	<input checked="" type="checkbox"/>		712.984				27921.519
14	<input checked="" type="checkbox"/>		724.984				22881.835
26	<input checked="" type="checkbox"/>		722.984				24166.905
24	<input checked="" type="checkbox"/>		714.984				36191.574
16	<input checked="" type="checkbox"/>		714.984				19637.225
25	<input checked="" type="checkbox"/>		723.9849-724.9849	771e-002	10692.506	12001.029	22765.134
95	<input checked="" type="checkbox"/>		793.9849-794.9849	768e-003	30408.058	29572.948	40261.999
2	<input checked="" type="checkbox"/>		700.9849-701.9849	692e-004	10132.104	9749.542	20207.773
15	<input checked="" type="checkbox"/>		713.9849-714.9849	429e-003	6949.865	6083.847	16639.591
159	<input checked="" type="checkbox"/>		857.9849-858.9849	699e-002	21195.334	27205.043	35450.414
60	<input checked="" type="checkbox"/>		758.9849-759.9849	945e-003	6825.433	6372.195	15000.262
158	<input checked="" type="checkbox"/>		856.9849-857.9849	359e-001	35594.351	44503.002	50724.988
104	<input checked="" type="checkbox"/>		802.9849-803.9849	054e-002	9201.065	8296.788	16855.253
8	<input checked="" type="checkbox"/>		706.9849-707.9849	158e-002	7841.996	8671.765	16254.045
44	<input checked="" type="checkbox"/>		742.9849-743.9849	451e-002	6368.769	6816.289	14428.873



2. The MS image is added to the “MS Image List” in the main window

The screenshot displays the IMAGEREVEAL software interface with several key components:

- ROI List:** A table listing ROI parameters for five testicle samples.
- Data Matrix Table:** A large table showing the results of PCA analysis for each ROI, including coordinates and principal component values.
- MS Image:** A panel for displaying a mass spectrum image, currently showing a blank area.
- MS Image List:** A panel containing a list of MS images, with two images highlighted: 'Testicle_9A..._1.AREA01.imdx' and '884.9849-885.9849-885.46492'. The latter is circled in green.
- Graph:** A mass spectrum plot titled 'Testicle_9A..._1.AREA01.imdx ROI001_Average' showing intensity versus m/z with several peaks labeled.
- Analysis Parameters:** A table of parameters for the TIC (Total Ion Chromatogram) analysis.

No.	Use	File Name	ROI No.	Attribute
1		Testicle_9A...	All	Group A
2	✓	Testicle_9A...	ROI001	Group A
3	✓	Testicle_9A...	ROI002	Group B
4	✓	Testicle_9A...	ROI003	Group C
5		Testicle_9A...	ROI004	Group D

No.	Use	Tag	Label	ical Axis	ROI001	ROI002	ROI003
106	✓		PCA-Horizontal Axis		5.600e+002	6.339e+002	-1.194e+003
107	✓		PCA-Vertical Axis		-4.021e+002	3.859e+002	1.624e+001
186	✓		884.9849-885.9849	734e-001	52242.364	91789.399	285789.467
187	✓		885.9849-886.9849	067e-001	34271.553	51785.158	157673.888
188	✓		886.9849-887.9849	697e-002	19271.791	25189.451	82594.137
189	✓		887.9849-888.9849	351e-002	11304.263	11665.185	27921.519
14	✓		712.9849-713.9849	313e-004	8275.835	7723.186	22881.833
26	✓		724.9849-725.9849	598e-002	9259.066	9815.346	24166.905
24	✓		722.9849-723.9849	941e-002	23144.278	21182.874	36191.574
16	✓		714.9849-715.9849	728e-002	6666.396	7300.530	19837.225
25	✓		723.9849-724.9849	771e-002	10692.506	72001.029	22785.124
95	✓		793.9849-794.9849	768e-003	30408.056	29572.946	40261.999
2	✓		700.9849-701.9849	692e-004	10132.104	9749.542	20207.773
15	✓		713.9849-714.9849	429e-003	6949.865	6083.847	16639.591
159	✓		857.9849-858.9849	699e-002	21195.334	27205.043	35450.414
60	✓		758.9849-759.9849	945e-003	6625.433	6372.195	15000.262
158	✓		856.9849-857.9849	359e-001	35994.351	44503.002	50724.988
104	✓		802.9849-803.9849	054e-002	9201.065	8296.788	16855.253
8	✓		706.9849-707.9849	158e-002	7841.996	8671.765	16254.045
44	✓		742.9849-743.9849	451e-002	6368.769	6816.389	14428.673

No.	Name	Value
1	Normalize	TIC
2	Normalize Reference Value Setting	Off
3	Normalize Minimum Threshold(%)	0
4	Data Matrix Analysis Method	Non-tar
5	m/z Range	699.984
6	Tolerance/Bin Size (Da)	1.0000
7	Labeling	Off
8	Exclusion List	Off
9	Threshold Setting	Off

3. A box plot and histograms of the selected m/z range are displayed on the graph tab

