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Supplementary material

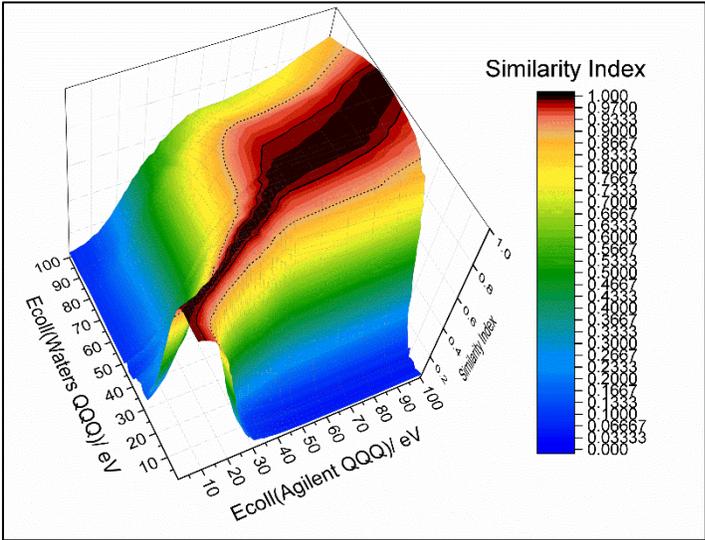


Fig.S1. Similarity indices show as a 3D contour map for all combinations of collision energies determined on Waters and Agilent QQQ instruments (0-100 eV range).

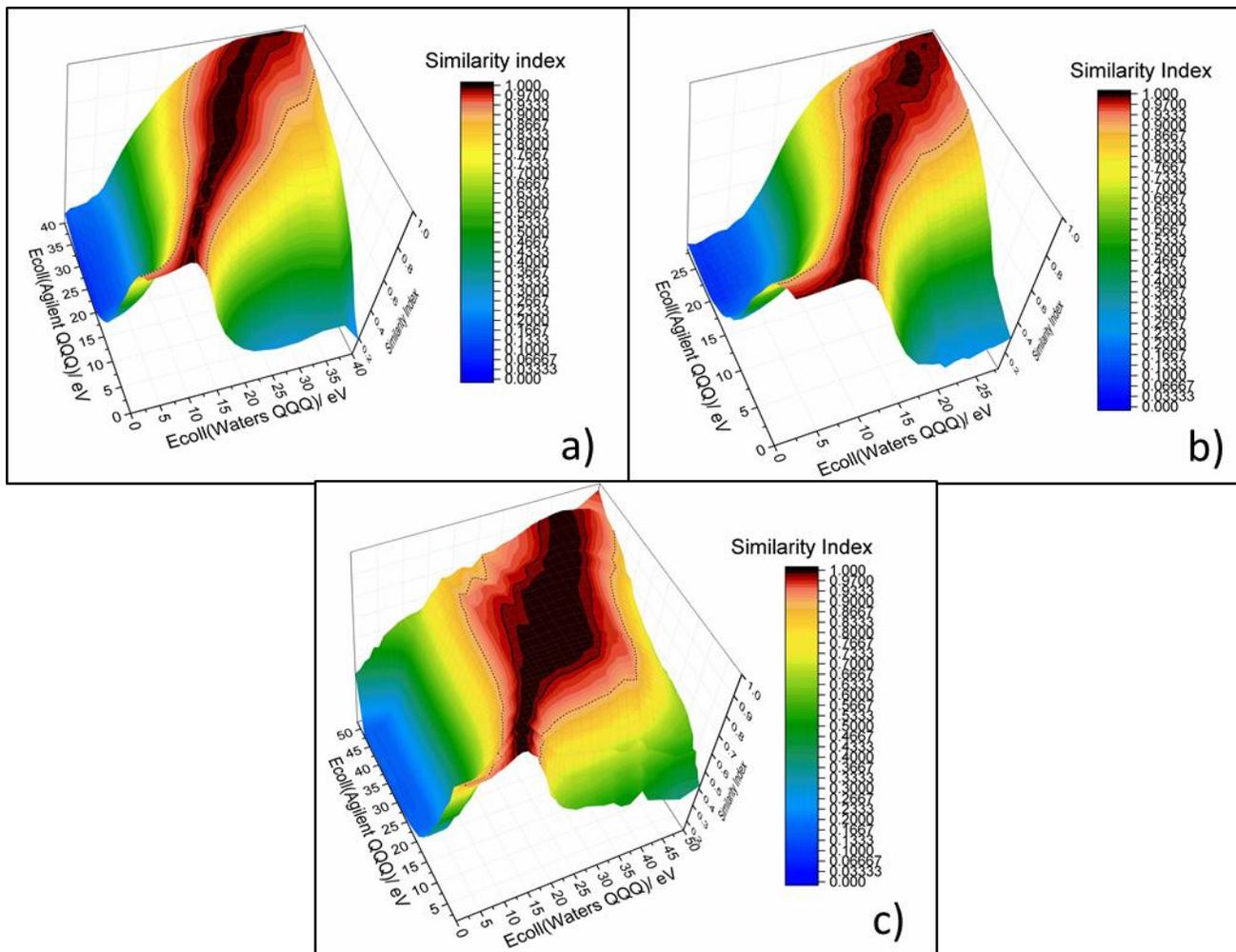


Fig. S2. Similarity indices show for all combinations of collision energies determined on Waters and Agilent QQQ instruments using a)  $\alpha$ -aminoadipic acid , b) aminocaproic acid, c) adenosine.

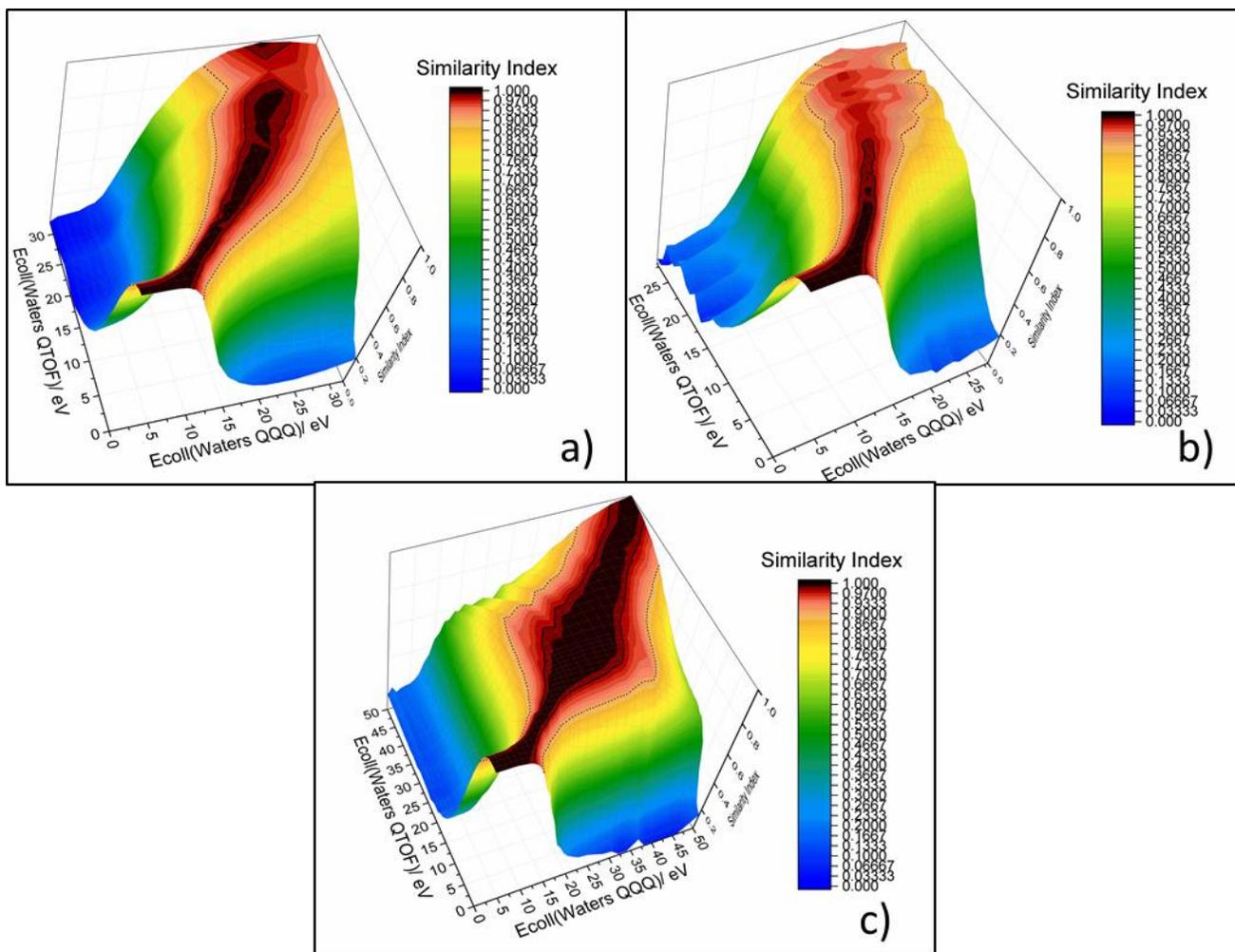


Fig. S3. Similarity indices shown as a 3D contour map and for all combinations of collision energies determined on Waters QTOF and Agilent QQQ instruments using a)  $\alpha$ -aminoadipic acid , b) aminocaproic acid, c) adenosine.

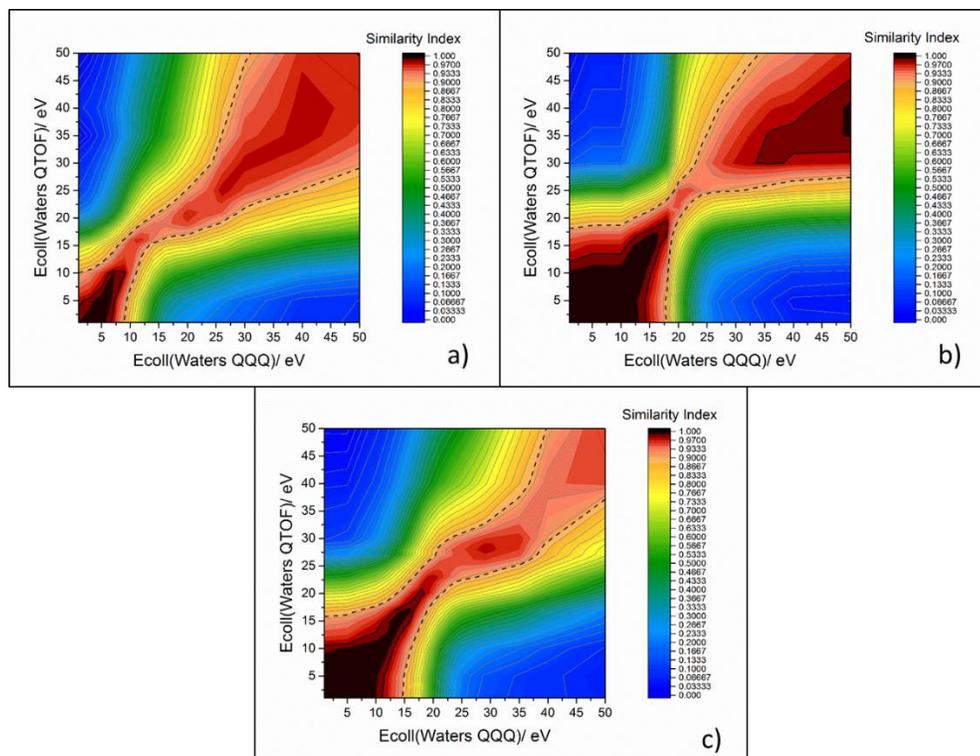


Fig. S4. Similarity indices shown as a 3D contour map and for all combinations of collision energies determined on Waters QTOF and QQQ instruments using studied doubly protonated tryptic peptides derived from bovine serum albumin a)  $m/z = 582.3189$ , sequence: LVNELTEFAK , b)  $m/z = 653.3617$ , sequence: HLVDEPQNLIK, c)  $m/z = 740.4013$ , sequence: LGEYGFQNALIVR.