

**Article title: Glycan side-reaction may compromise ETD-based glycopeptide identification**

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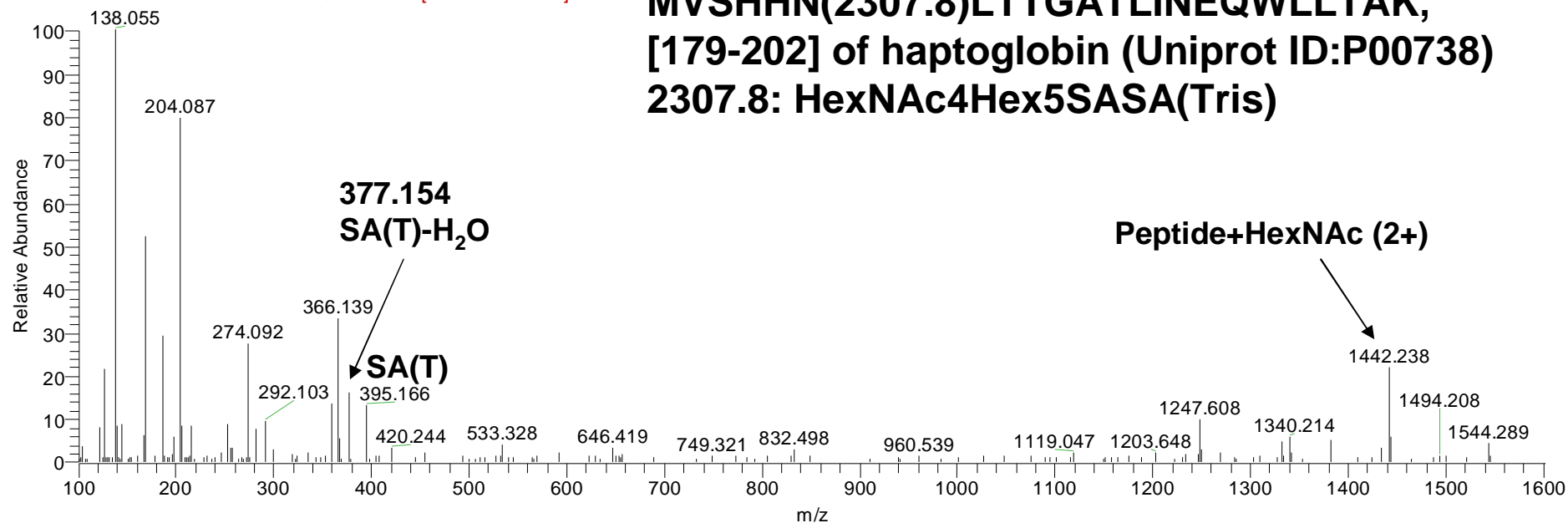
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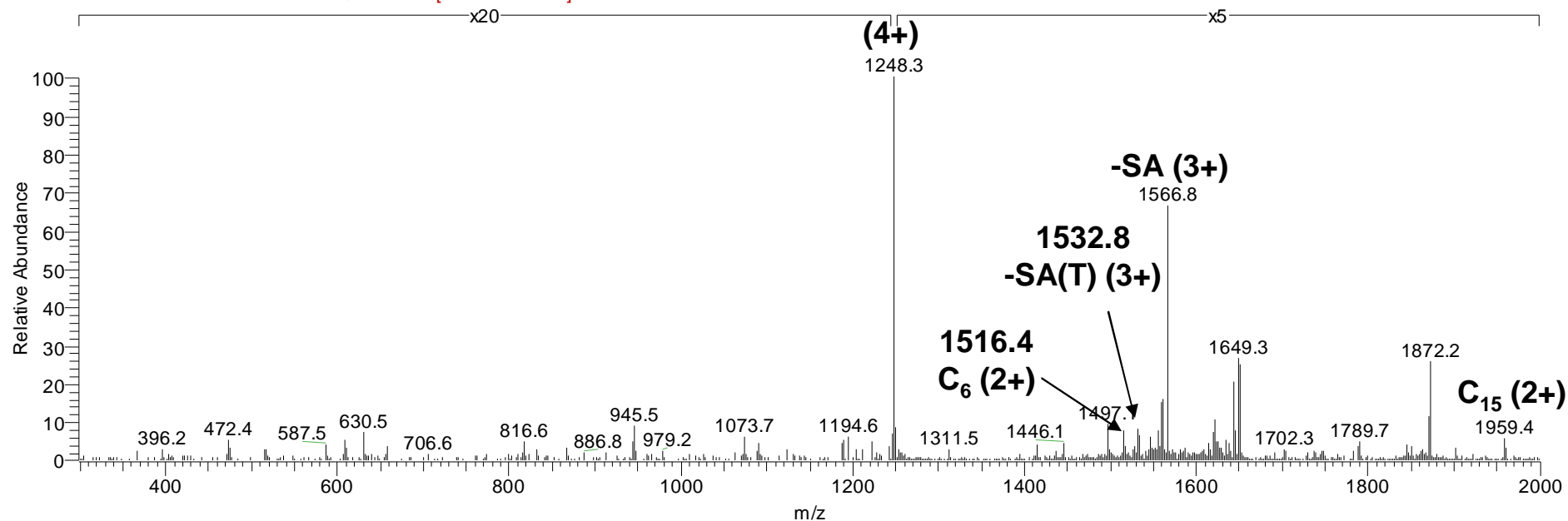
# **Tris-modified N-glycopeptides in human serum dataset**

130809\_3 #9113-9240 RT: 49.40-49.90 AV: 3 NL: 1.55E4  
F: FTMS + c NSI d Full ms2 1248.53@hcd35.00 [100.00-2000.00]

**m/z 1247.569 (4+):**  
**MVSHHN(2307.8)LTTGATLINEQWLLTAK,**  
**[179-202] of haptoglobin (Uniprot ID:P00738)**  
**2307.8: HexNAc4Hex5SASA(Tris)**



130809\_3 #9113-9240 RT: 49.41-49.91 AV: 3 NL: 3.13E4  
F: ITMS + c NSI d sa Full ms2 1248.53@etd50.00 [50.00-2000.00]

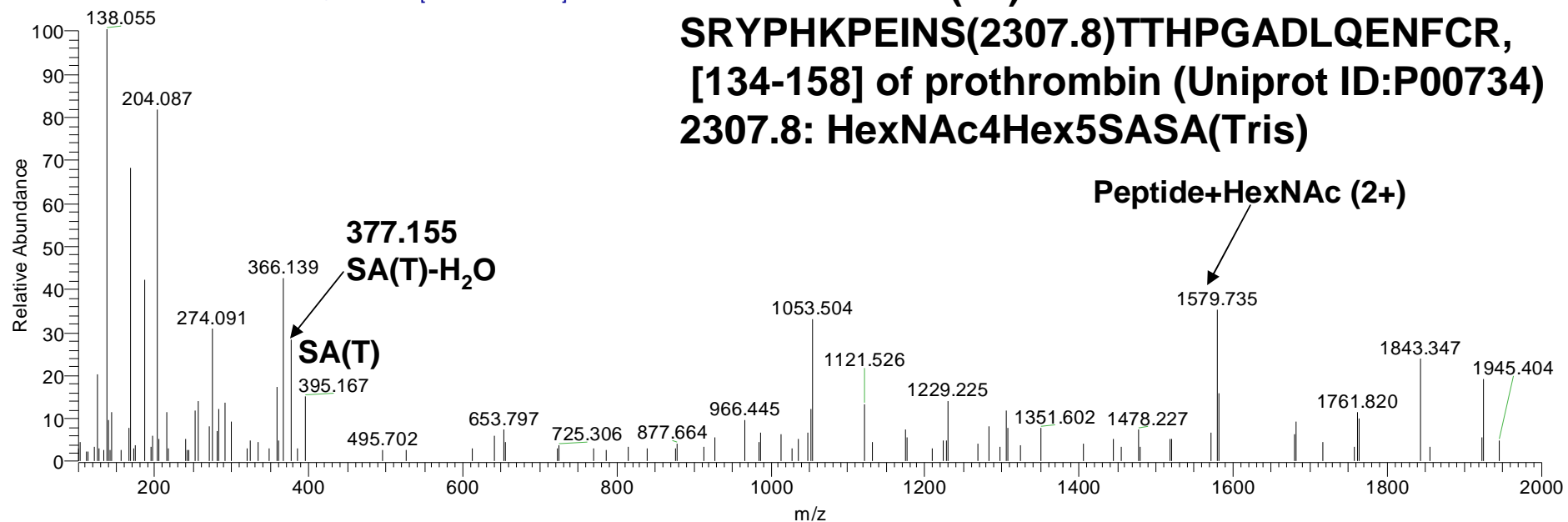


## ETD data of MVSHHN(2307.8)LTTGATLINEQWLLTAK

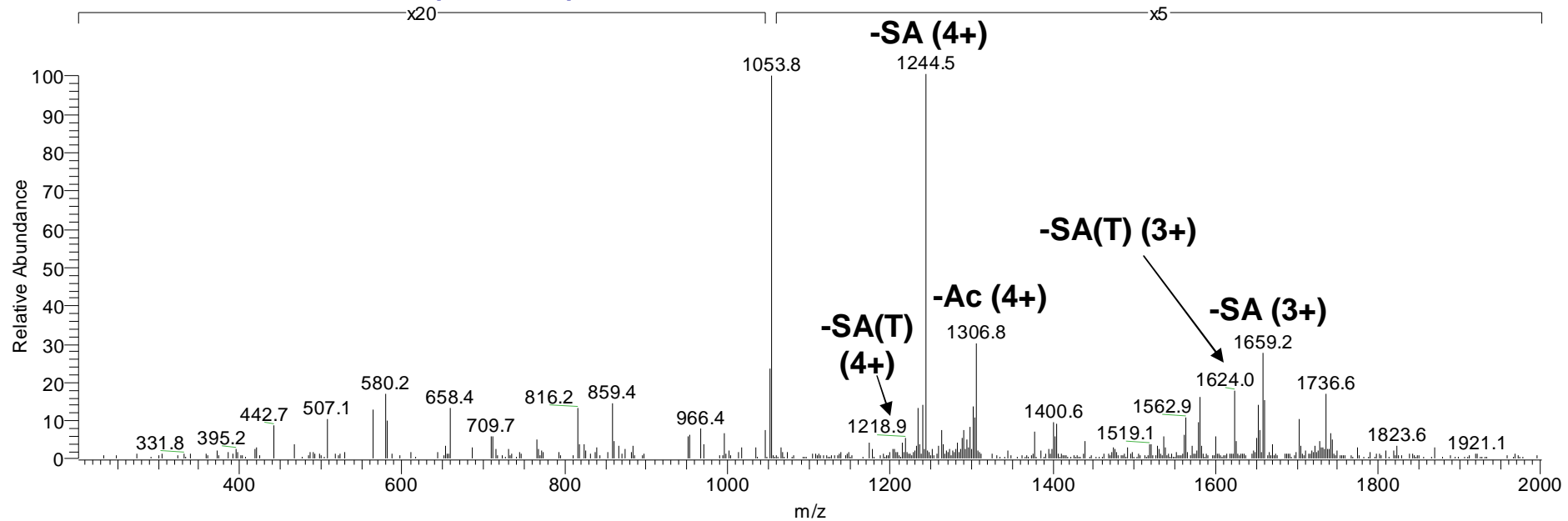
<b>304.2430</b>	<b>387.3290</b>	<b>396.2820</b>	<b>471.4050</b>	<b>472.4050</b>	<b>474.3410</b>	<b>517.4600</b>	<b>587.4930</b>	<b>608.5240</b>	<b>609.5240</b>
$z+1_3(0.056)$ $c-1_5^{+2}(-0.40)$			$c-1_4(0.18)$	$c_4(0.17)$		$z_5(0.15)$		$c-1_5(0.24)$ $c_5(-0.77)$	$c_5(0.23)$
<b>630.4930</b>	<b>646.6670</b>	<b>657.4030</b>	<b>699.4340</b>	<b>760.4200</b>	<b>795.6720</b>	<b>808.5080</b>	<b>816.5910</b>	<b>832.6150</b>	<b>844.5290</b>
$z_6(0.098)$	$y_6(0.25)$						$z_7(0.12)$	$y_7(0.12)$	
<b>1250.6380</b>	<b>1435.8350</b>	<b>1496.5640</b>	<b>1497.5690</b>	<b>1516.1820</b>	<b>1531.7770</b>	<b>1532.7870</b>	<b>1558.8430</b>	<b>1559.8860</b>	<b>1566.8310</b>
				$c-1_6^{+2}(0.086)$ $z+1_{13}(0.34)$ $c_6^{+2}(-0.42)$					
<b>1615.1410</b>	<b>1620.5090</b>	<b>1628.6030</b>	<b>1638.2150</b>	<b>1642.7840</b>	<b>1650.2870</b>	<b>1788.7970</b>	<b>1870.2160</b>	<b>1871.2070</b>	<b>1959.3500</b>
$b_8^{+2}(-0.012)$ $z+1_{23}^{+3}(0.40)$ $b_{23}^{+3}(0.42)$ $z_{23}^{+3}(0.74)$	$c_{23}^{+3}(0.11)$ $c-1_{23}^{+3}(0.45)$ $y_{23}^{+3}(0.77)$			$z_{15}(-0.11)$		$c_{12}^{+2}(0.054)$ $c-1_{12}^{+2}(0.56)$			$z+1_{18}(0.27)$ $c_{15}^{+2}(0.50)$

130809\_3 #4030 RT: 25.58 AV: 1 NL: 6.85E3  
T: FTMS + c NSI d Full ms2 1053.65@hcd35.00 [100.00-2000.00]

**m/z: 1053.449 (5+)**  
**SRYPHKPEINS(2307.8)TTHPGADLQENFCR,**  
**[134-158] of prothrombin (Uniprot ID:P00734)**  
**2307.8: HexNAc4Hex5SASA(Tris)**



130809\_3 #4031 RT: 25.59 AV: 1 NL: 2.99E4  
T: ITMS + c NSI d sa Full ms2 1053.65@etd40.00 [50.00-2000.00]



## ETD data of SRYPHKPEINS(2307.8)TTHPGADLQENFCR

395.1790	419.3190	442.6510	466.4960	507.0820	563.6270	580.2380	653.6110	658.4440	686.7630
		$c_7^{+2}(0.40)$	$z_3(0.30)$ $z+1_3(-0.71)$	$c_8^{+2}(0.31)$	$c_9^{+2}(0.32)$	$z_4(-0.0042)$		$c_5(0.10)$	
708.8650	714.4460	730.4470	764.8070	816.1750	823.5530	838.6710	859.3500	867.0150	873.2440
$z_5(-0.42)$	$z_{12}^{+2}(0.13)$ $z+1_{12}^{+2}(-0.37)$		$z_{13}^{+2}(-0.033)$ $z+1_{13}^{+2}(-0.54)$	$z+1_{14}^{+2}(0.31)$	$y_{14}^{+2}(0.18)$	$z+1_6(0.32)$	$z+1_{15}^{+2}(-0.034)$ $z_{15}^{+2}(0.47)$	$y_{15}^{+2}(0.13)$ $b_7(0.55)$	
1218.8840	1233.6470	1240.0200	1243.7870	1244.4690	1263.5280	1377.1770	1400.6320	1536.4820	1562.2220
	$b_{23}^{+4}(0.62)$	$b_{12}^{+3}(-0.49)$				$c_{16}^{+3}(0.26)$ $c-1_{16}^{+3}(0.60)$	$c_{17}^{+3}(0.036)$ $c-1_{17}^{+3}(0.37)$	$z+1_{20}^{+3}(-0.15)$ $z_{20}^{+3}(0.18)$	$c_{21}^{+3}(-0.11)$ $c-1_{21}^{+3}(0.22)$
1562.9400	1579.0170	1579.9840	1600.8460	1624.0220	1649.7060	1653.1720	1658.3610	1659.1710	1703.2380
$c_{21}^{+3}(0.61)$			$c_{22}^{+3}(0.50)$		$c_{23}^{+3}(0.34)$ $c-1_{23}^{+3}(0.67)$				$c_{24}^{+3}(0.52)$