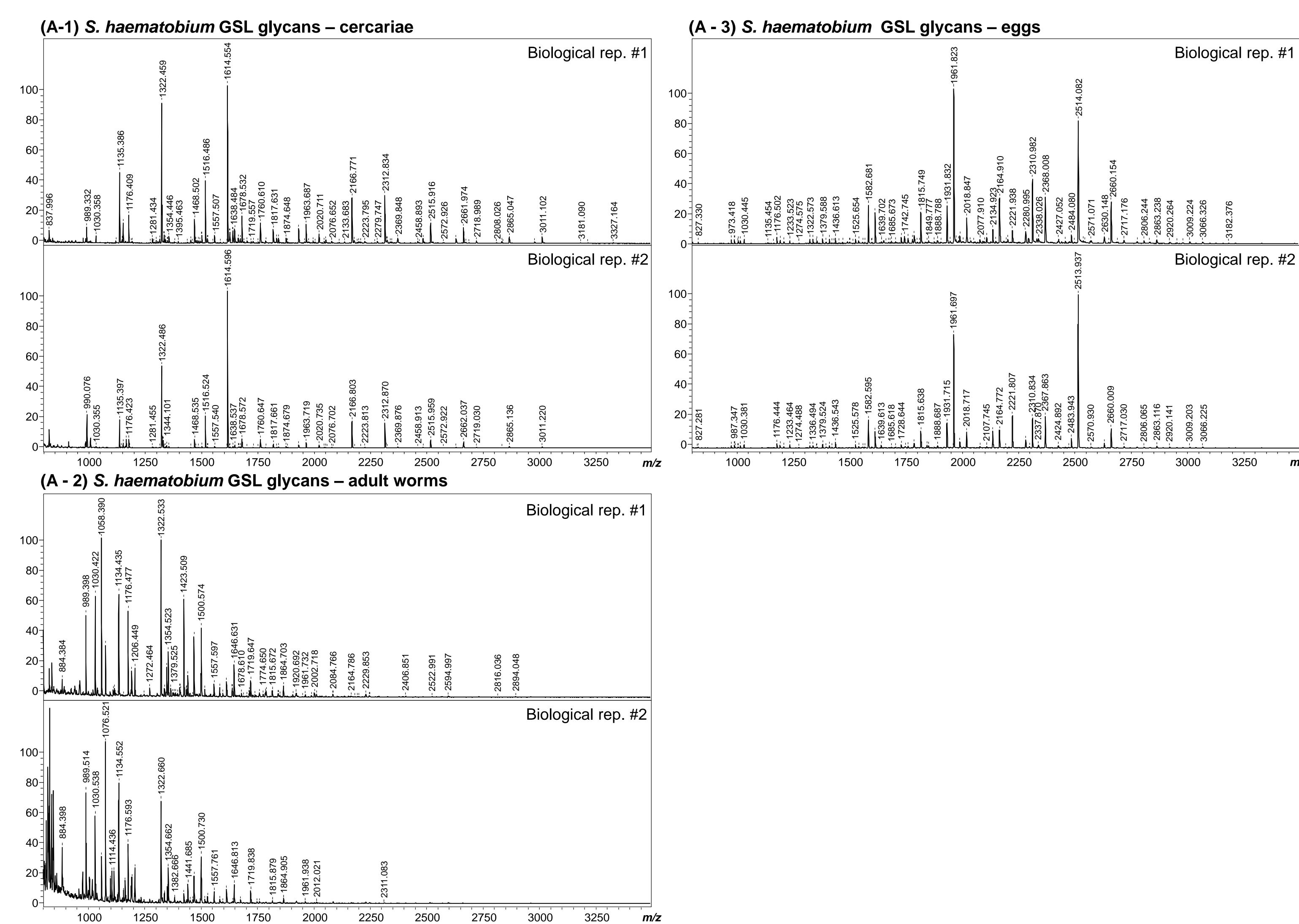
Poster appendix #6 – MALDI-TOF-MS spectra of *S. haematobium* GSL derived, N-linked and O-linked glycans

S. haematobium (glyco-)lipids were treated with EGCase I to release GSL glycans (A, C-1) while N-glycans were released from S. haematobium glycoproteins using PNGase F and PNGase A sequentially (B, C-2). Enzymatically released glycans were labeled with 2-AA and analyzed using MALDI-TOF-MS. GSL glycan and N-glycan spectra were acquired in negative-ion reflectron mode. All signals are labeled with monoisotopic masses (m/z). Signal intensities in % are indicated on the Y-axis.

Biological duplicates were generated for GSL and N-linked glycans of *S. haematobium* cercariae, adult worms and total eggs (A-B). Glycan class and parasite life-stage from which glycans were extracted is indicated at the top of each panel: cercariae, adult worms or eggs (total), with a distinction between mature and immature eggs in C. At the exception of the PNGase A-specific N-glycan profile obtained for the mature eggs (C-2); the rest of the N-glycan spectra result from PNGase F treatment.

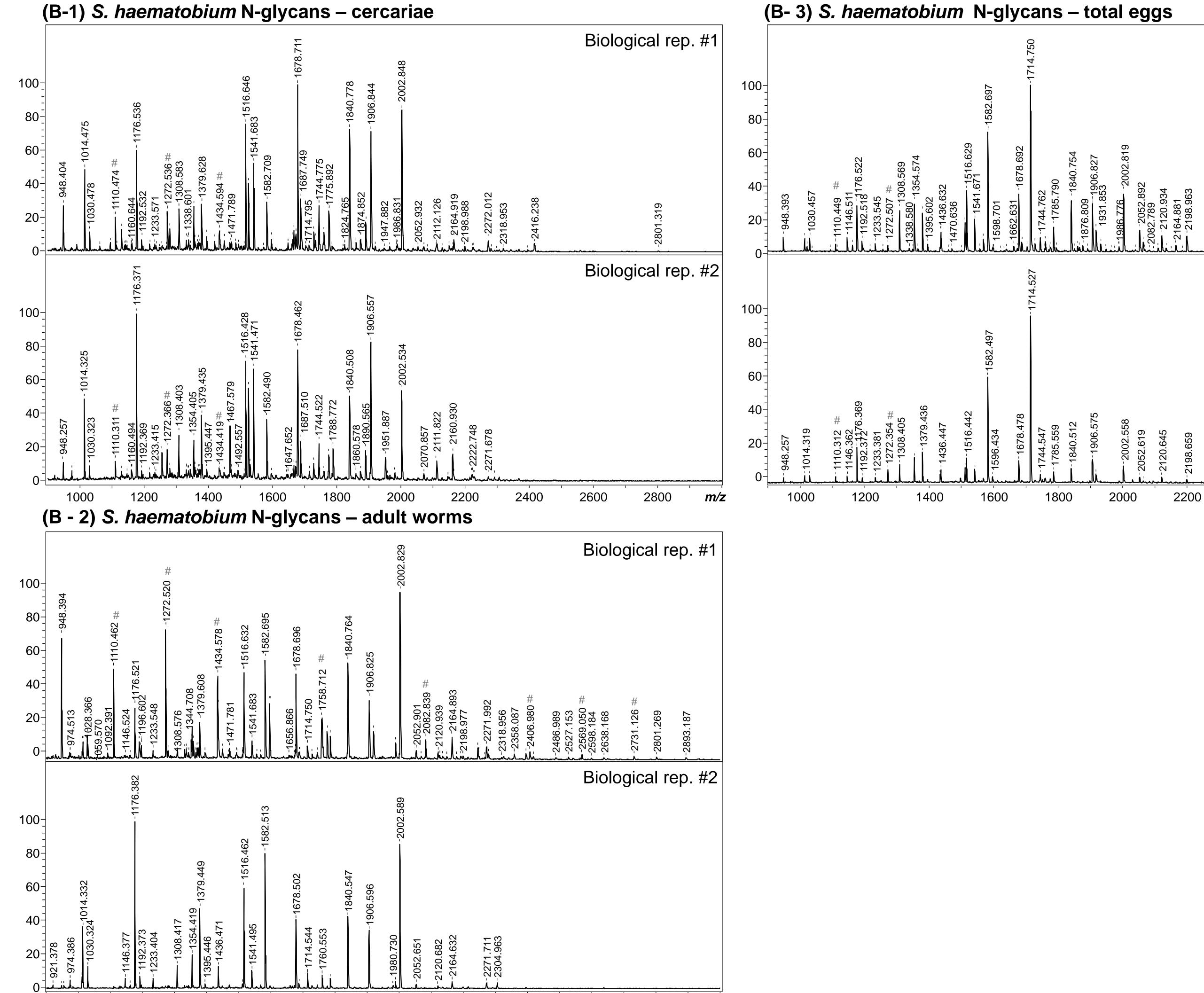
O-glycans were released from *S. haematobium* glycoproteins by β-elimination and permethylated prior MALDI-TOF-MS analysis (D). Technical duplicates were generated. Spectra were recorded in positive-ion reflectron mode and monoisotopic masses of measured signals are indicated. Signal intensities in % are indicated on the Y-axis.

Known non-glycan signals are labeled with the # symbol.

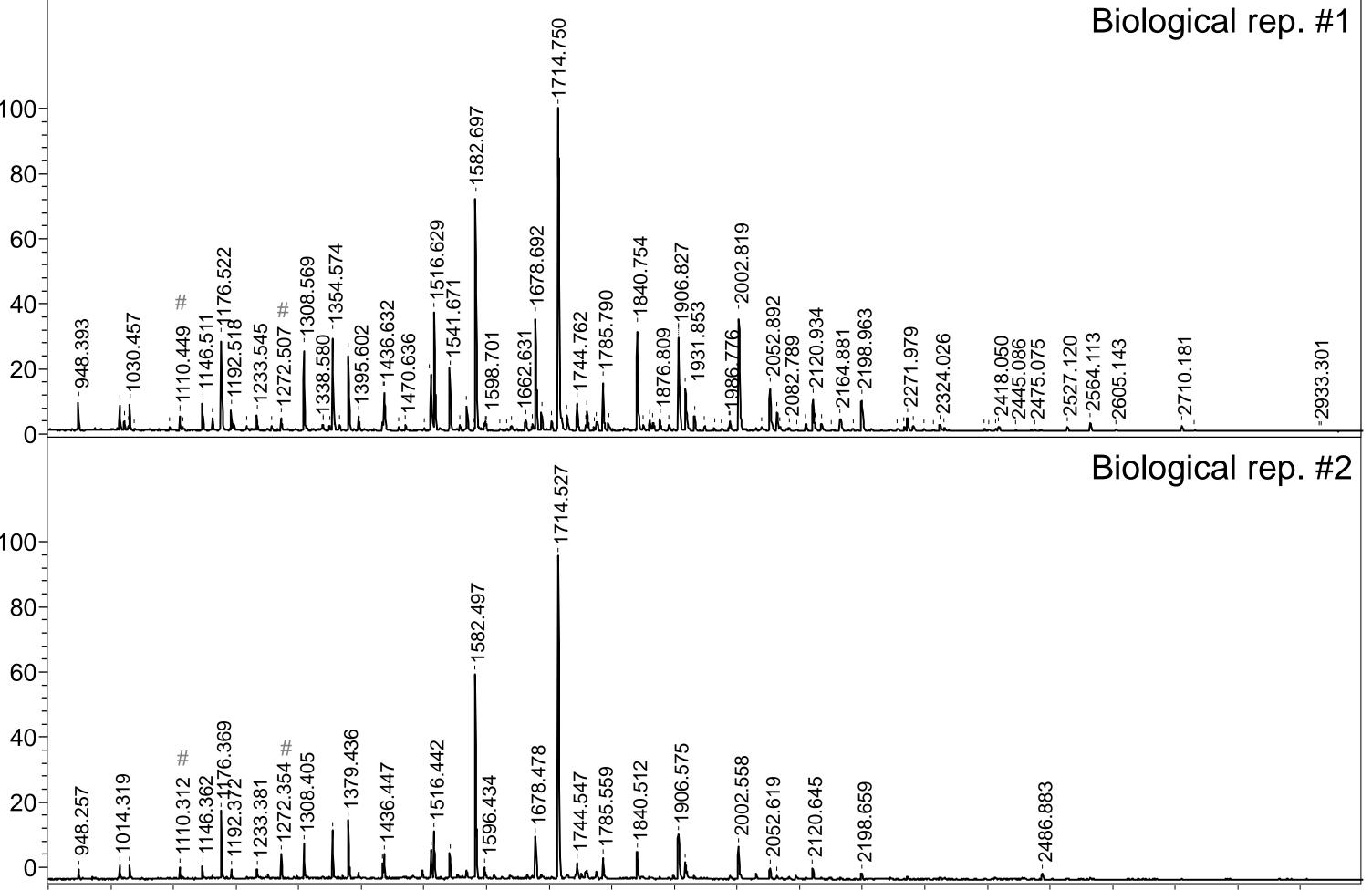


3250

m/z



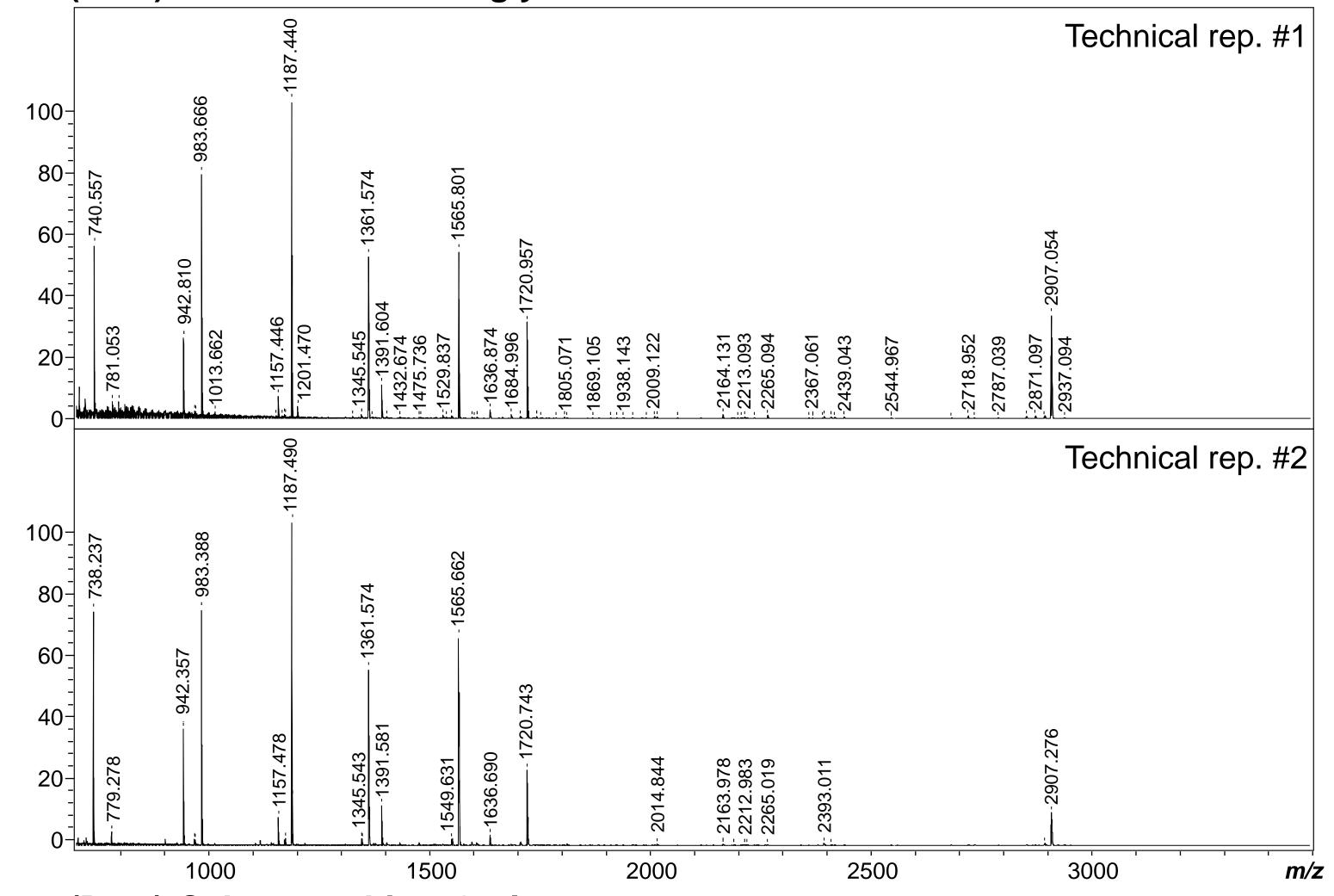
m/z



m/z

(C-2) S. haematobium N-glycans – Immature and mature eggs (C - 1) S. haematobium GSL glycans – immature and mature eggs Immature eggs (PNGase F) Immature eggs 100 -1728.430 -1785.442 --- - 1815.420 1988.500 - 2018. -1612.367 -2629.744 -265 -2716.750 20 -Mature eggs (PNGase F) Mature eggs 100 --- - 2018.458 -2077.502 -- -2134.525 --- -2221.518 1678.355 ___-1379.339 -1436.359 -1678.360 --1728.406 --1785.421 --1849.415 -2002.418 --2052.473 -2198.522 **-** -1785.427 -1840.382 -2120.504 -1540.500 -2367.587 -1115.300 --1176.297 -1233.321 -1525.355 =2417.580 =2469.622 --2526.649 ÷2271.529 ÷ -2323.571 -1322.304 -1379.318 -1436.331 -2718.740 -2775.777 -2862.801 Mature eggs (PNGase A) 1250 1500 1750 2000 2250 2500 2750 3000 3250 m/z 100 80 60 1582.473 --- 2063.613 - 2120.629 1775.610 - 1322.410 - 1379.419 - 1434.402 # - 2266. 1906.548 1657.490 - 2590.833 - 2647.842 2198.646 2344.708 - 2736.902 - 2793.933 - 2855.934 2939.980 20 3250 *m/z* 1000 1250 1500 1750 2000 2250 2500 2750 3000

(D - 1) S. haematobium O-glycans – cercariae



(D - 2) S. haematobium O-glycans – eggs

