

Scaffolded Multiple Cyclic Peptide libraries for Protein Mimics by Native Chemical Ligation

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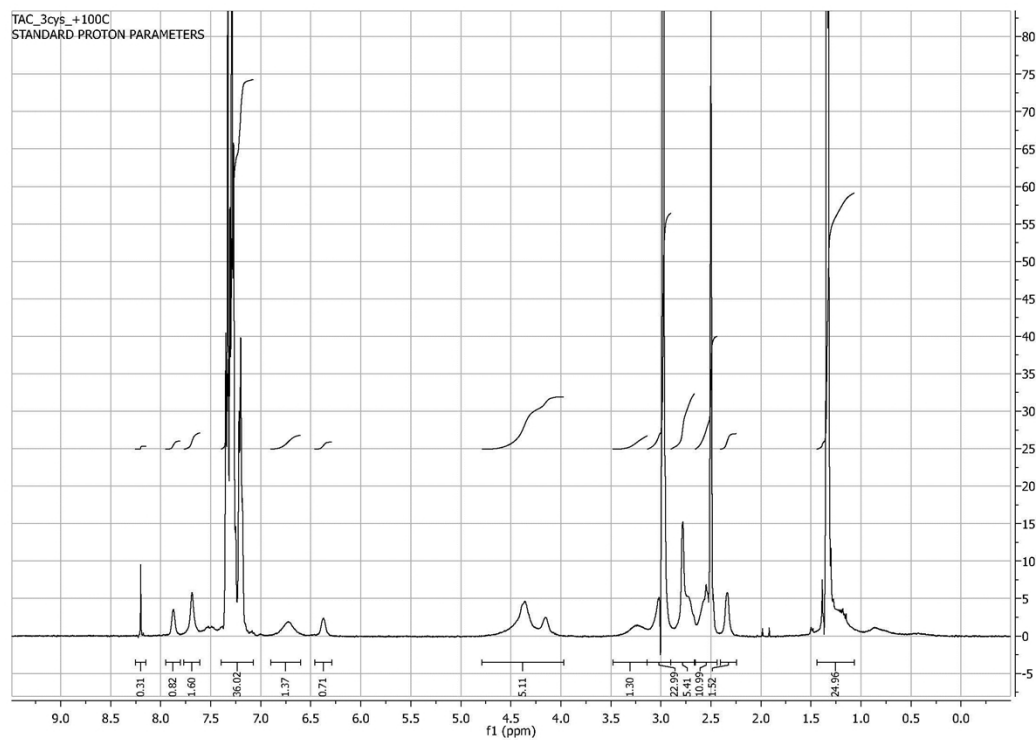
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^b *School of Chemistry, Joseph Black Building, University of Glasgow, University Avenue, Glasgow G12 8QQ, United Kingdom.*

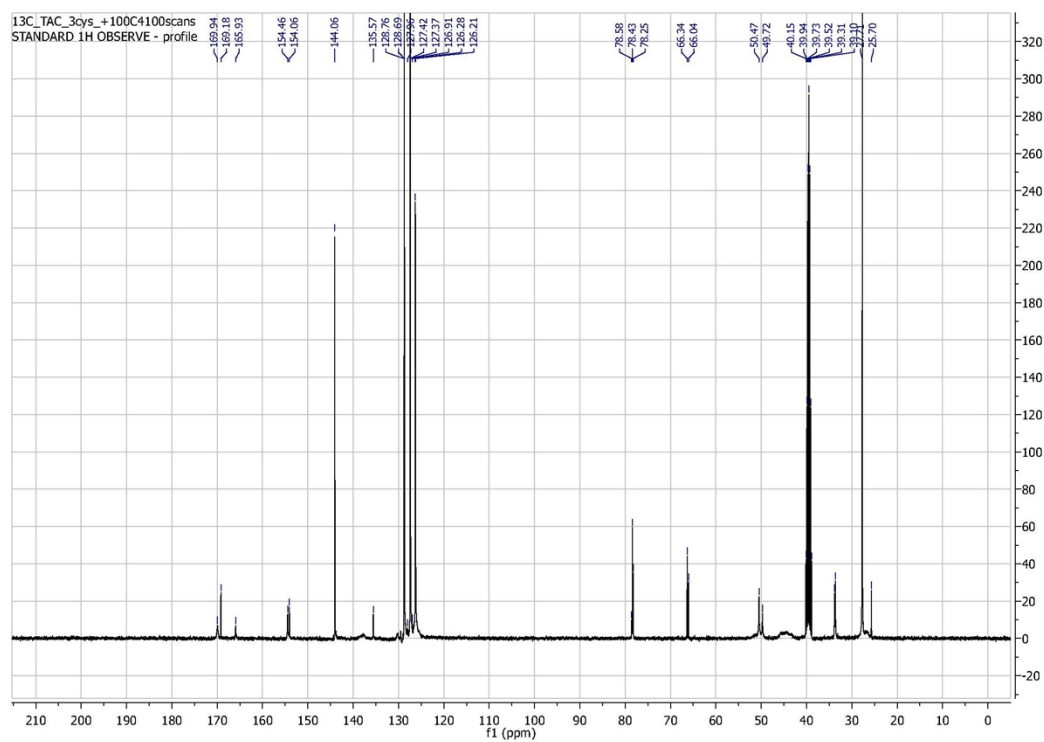
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Robert.Liskamp@glasgow.ac.uk

(Boc-Cys(Trt))₃-TAC(N(H)Me) 4

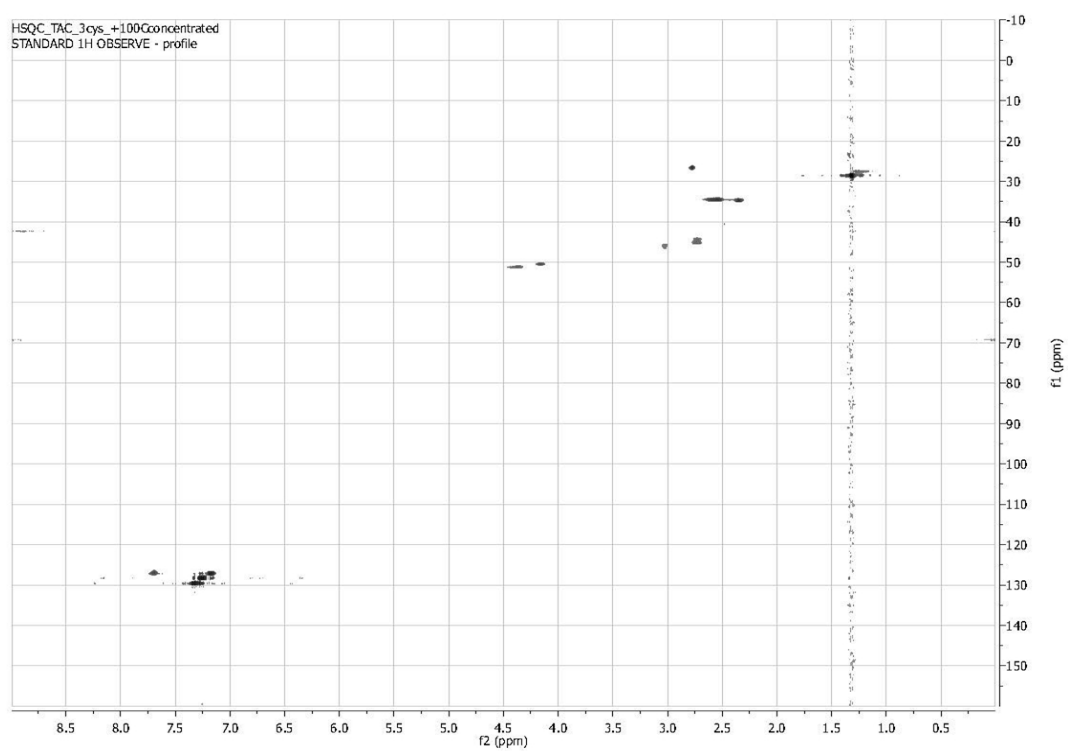
¹H NMR at 373 K



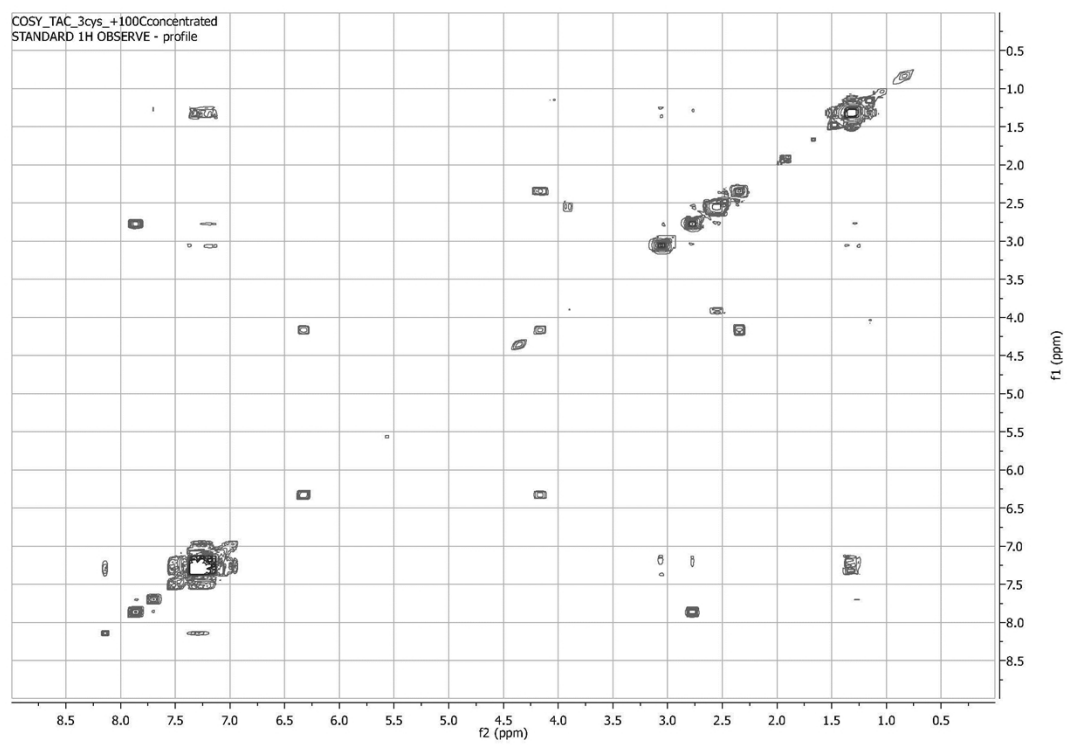
¹³C NMR at 373 K



HSQC at 373 K

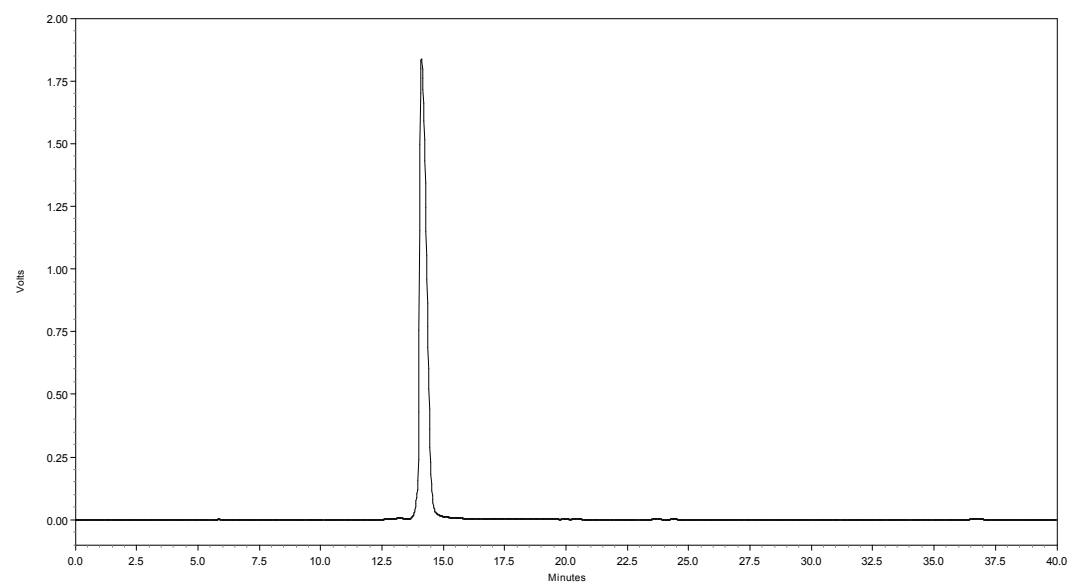


COSY at 373 K



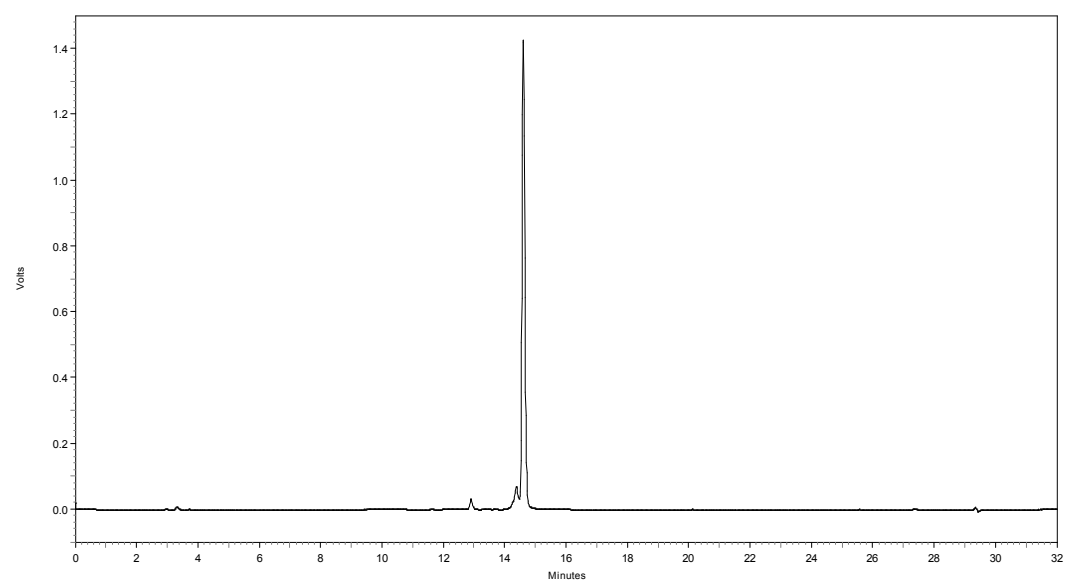
(H-Cys)₃-TAC(N(H)Me) 5

HPLC

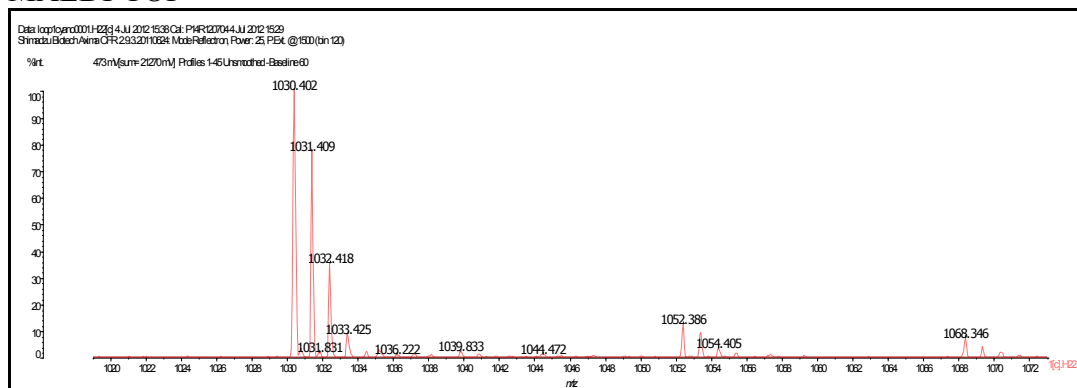


Cyclic thioester loop 1 (11a)

HPLC

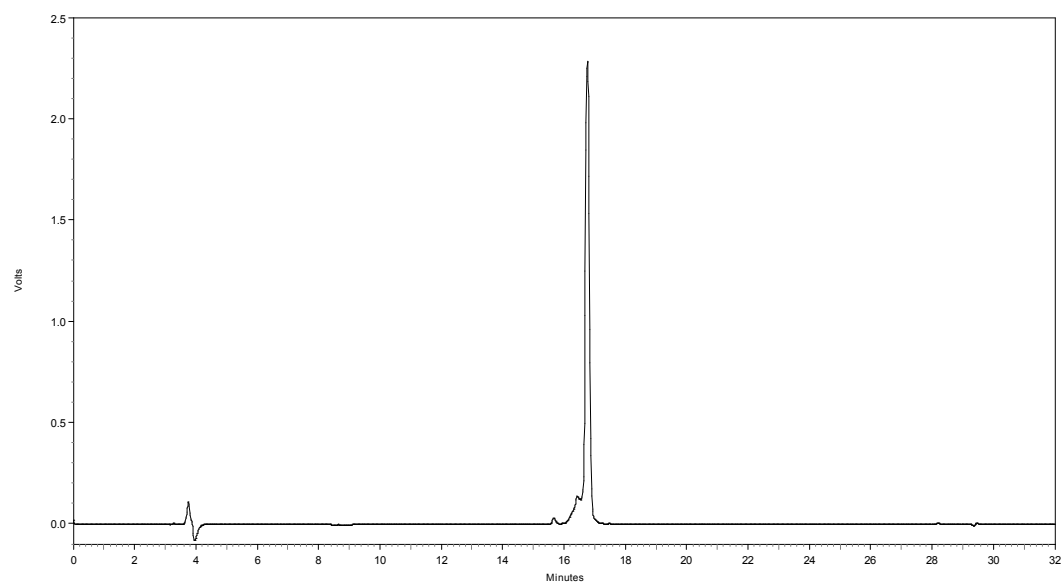


MALDI-TOF

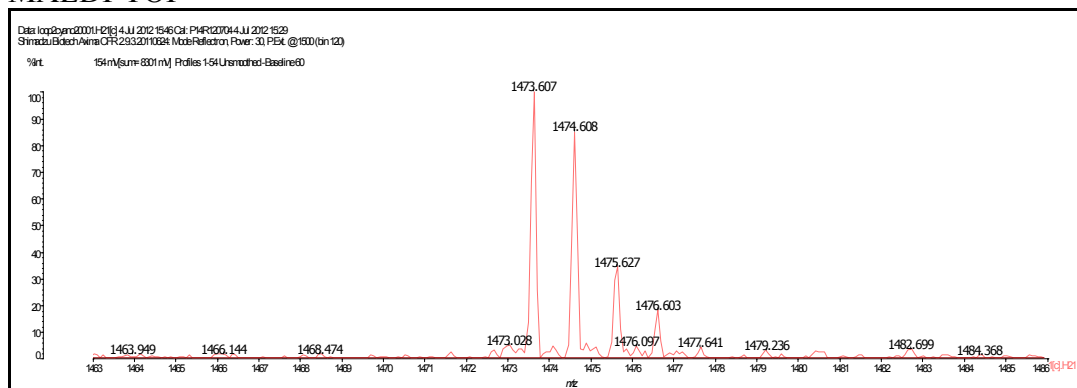


Cyclic thioester loop 2 (11b)

HPLC

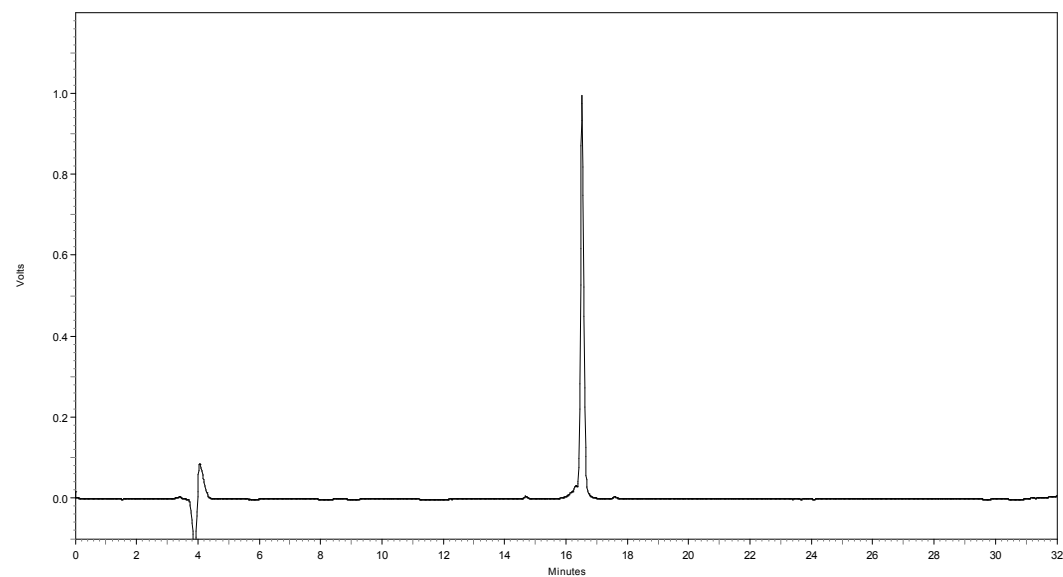


MALDI-TOF

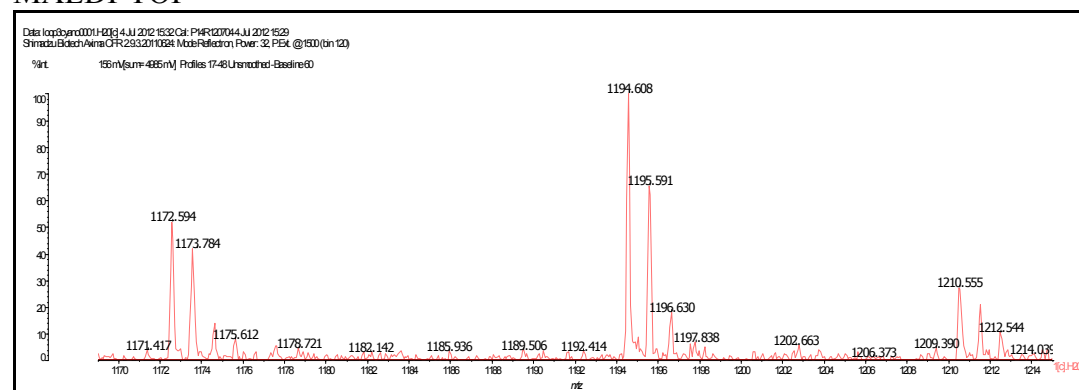


Cyclic thioester loop 3 (11c)

HPLC

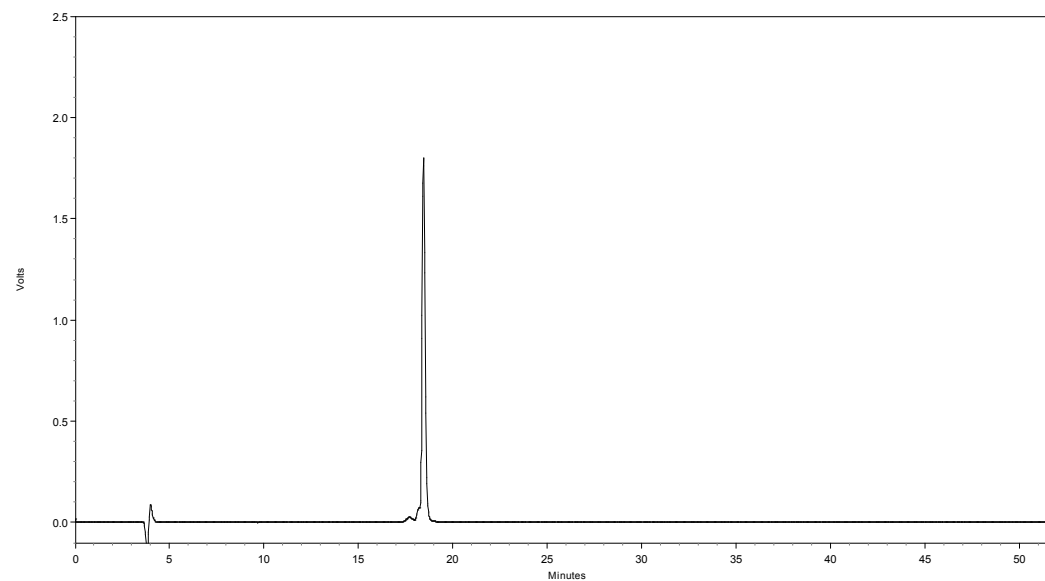


MALDI-TOF

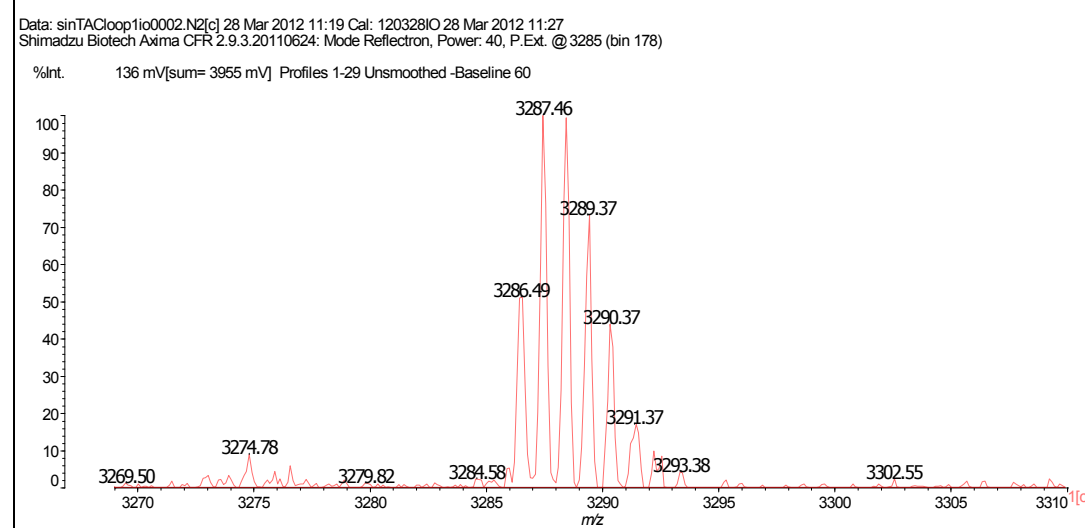


Triple-ligated product 12

HPLC

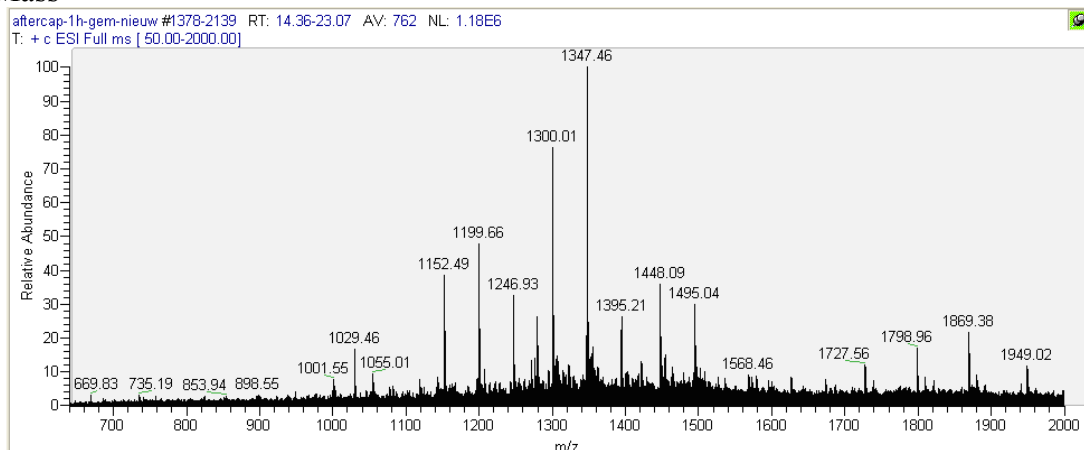


MALDI-TOF



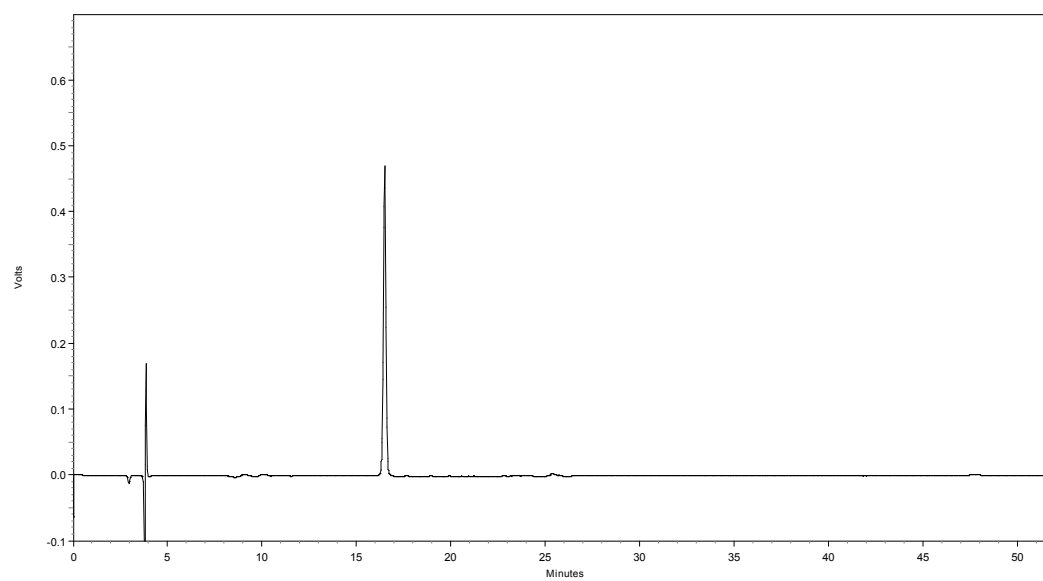
Mixture 13

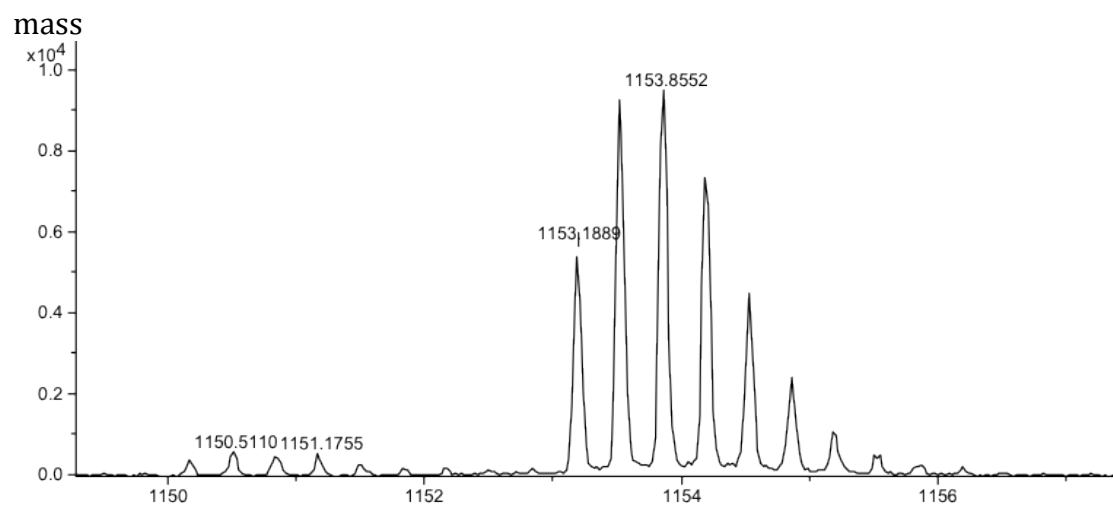
Mass



Triple-capped product 13 – [1-1-1] mimic

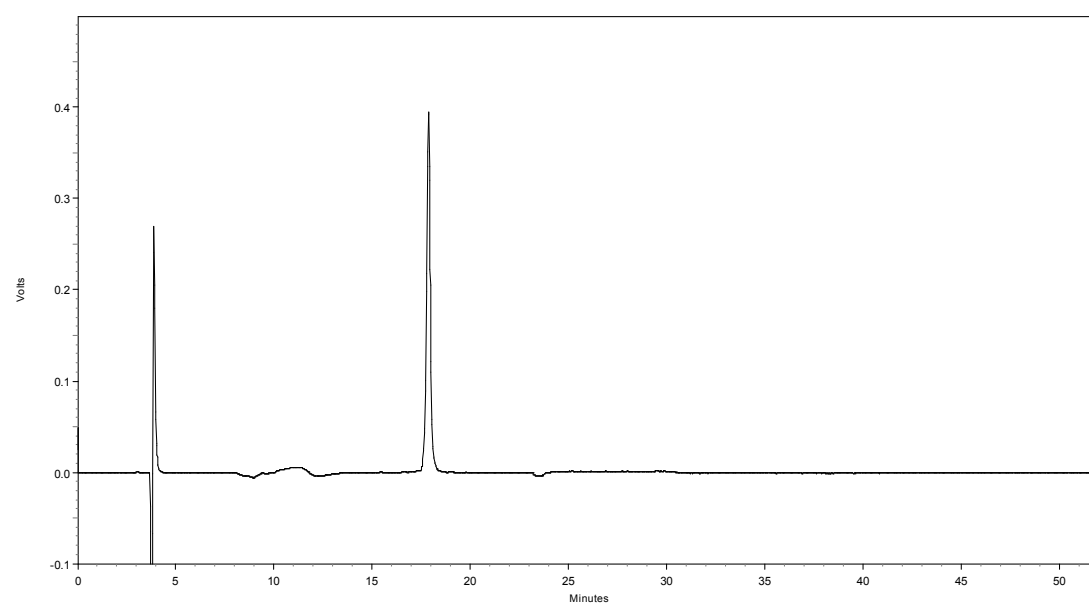
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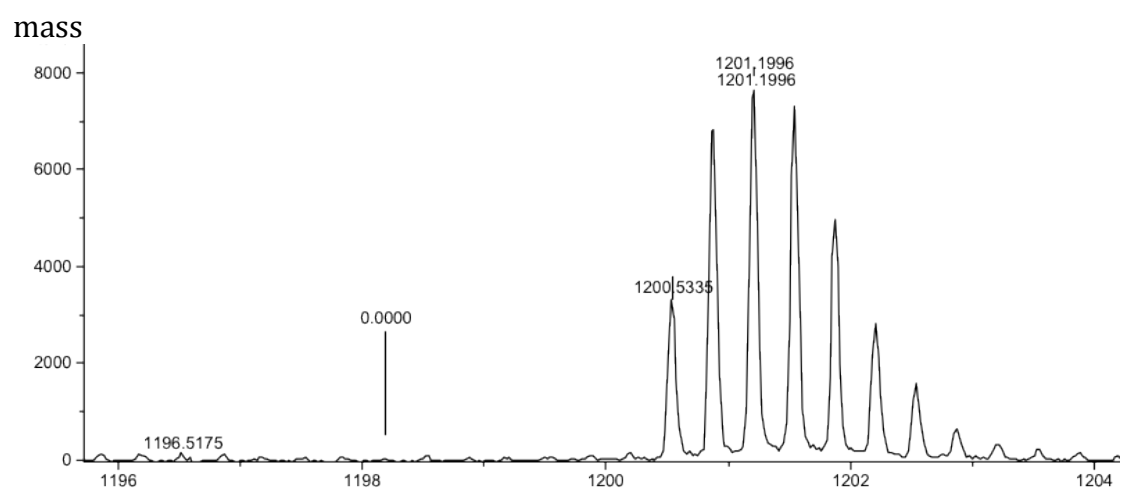




[1-1-3] mimic

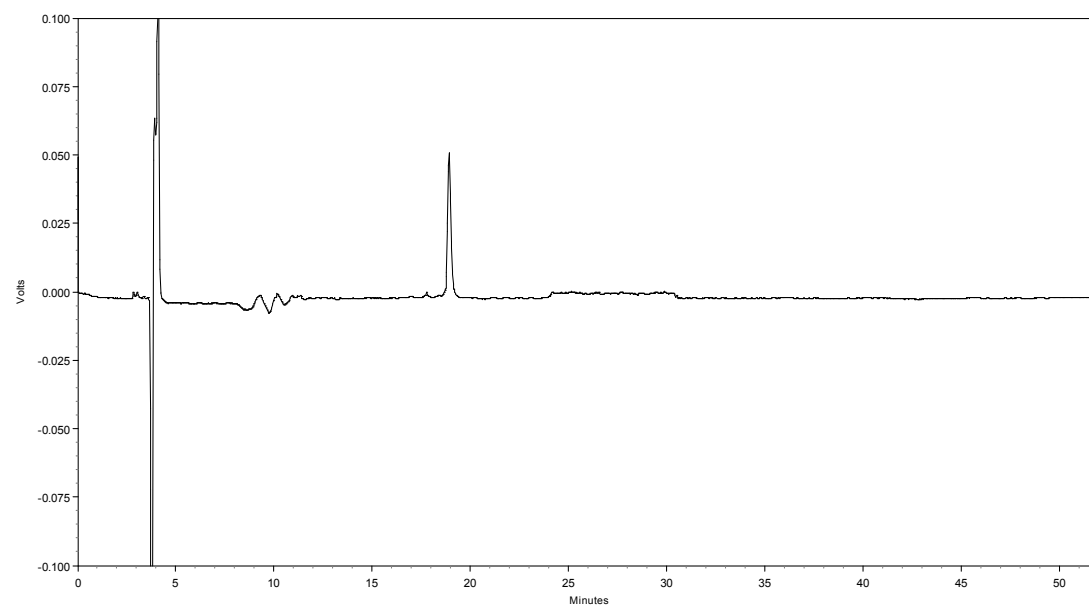
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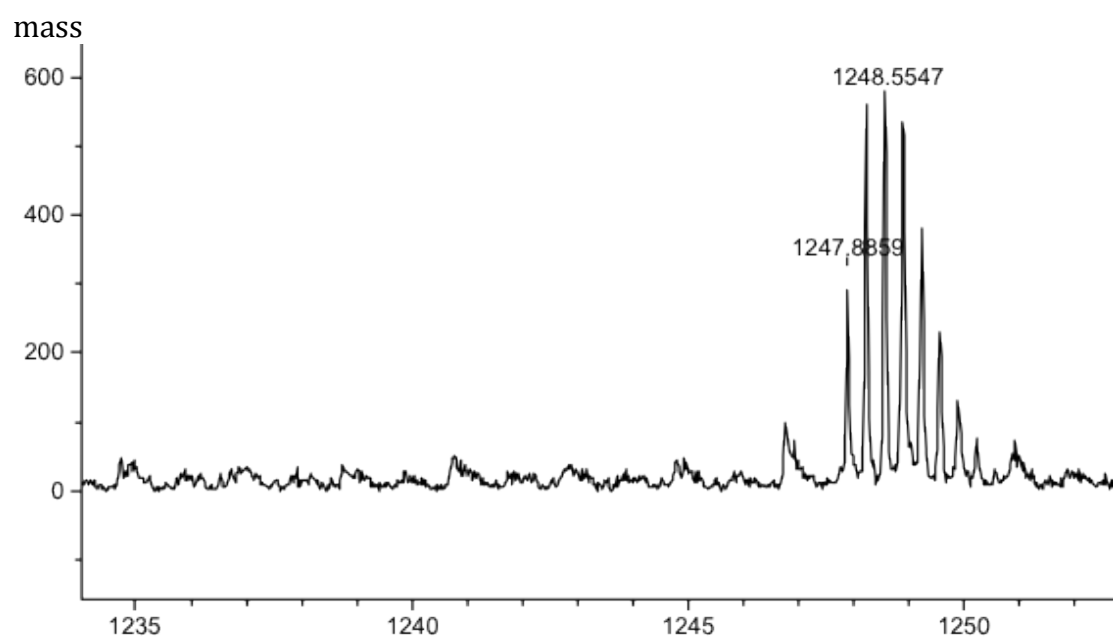




[1-3-3] mimic

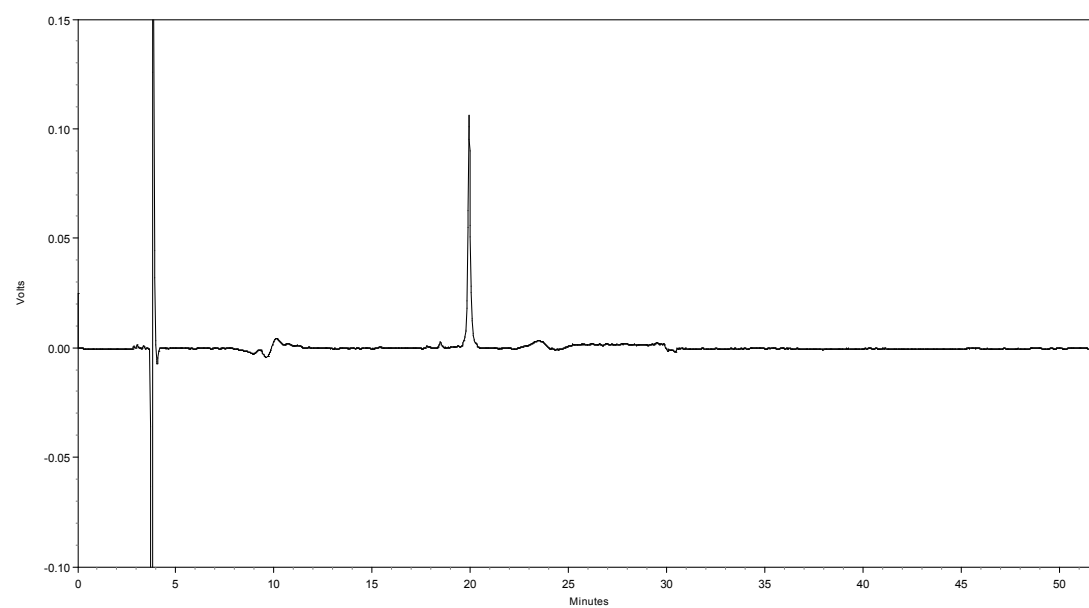
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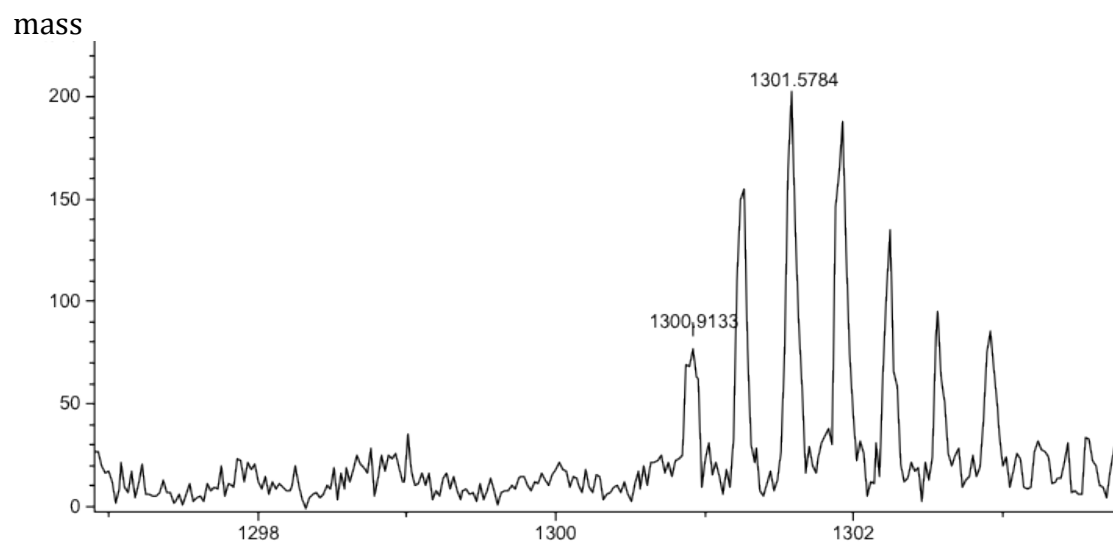




[1-1-2] mimic

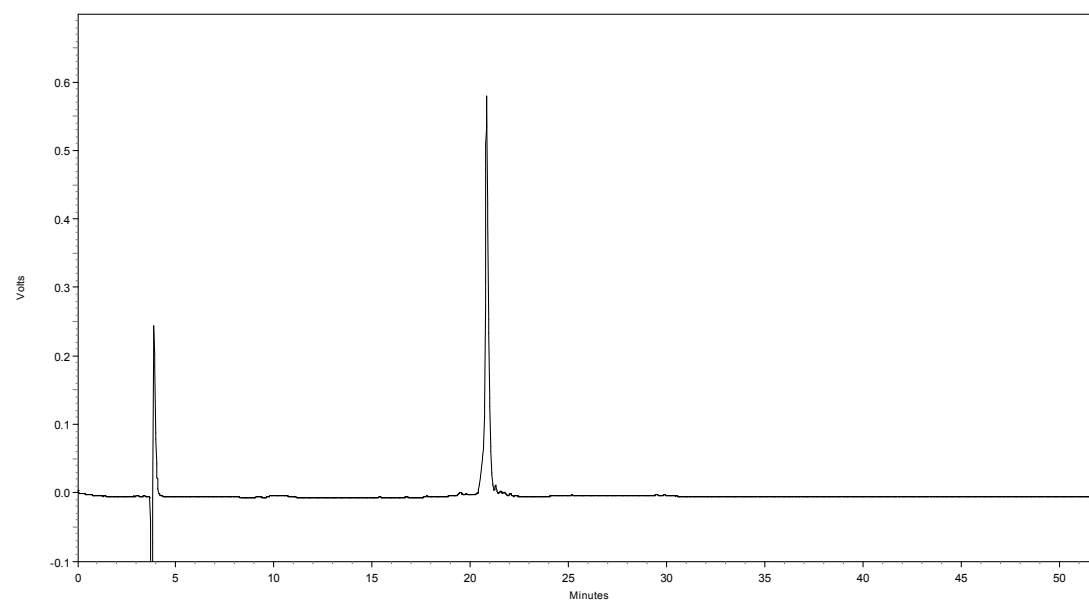
HPLC



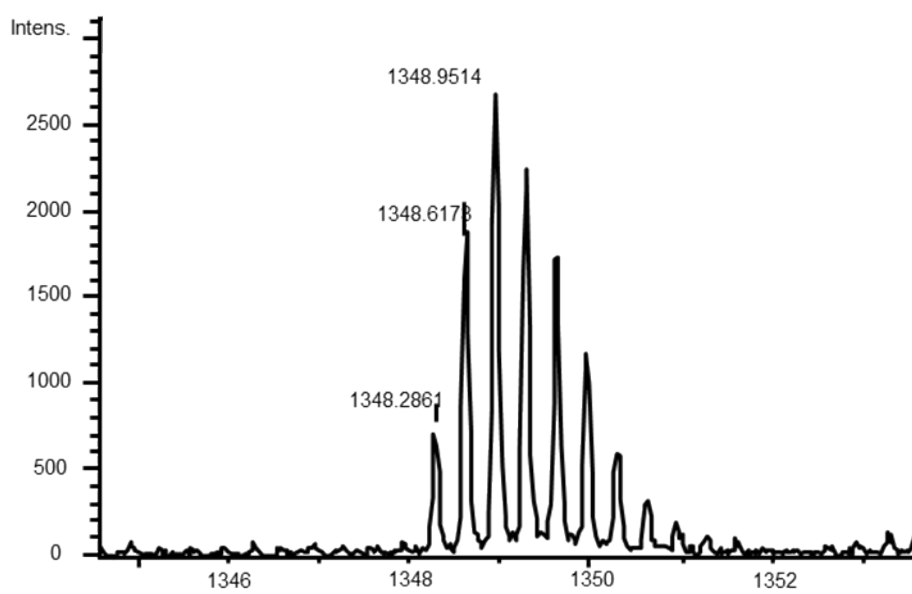


[1-2-3] mimic

HPLC

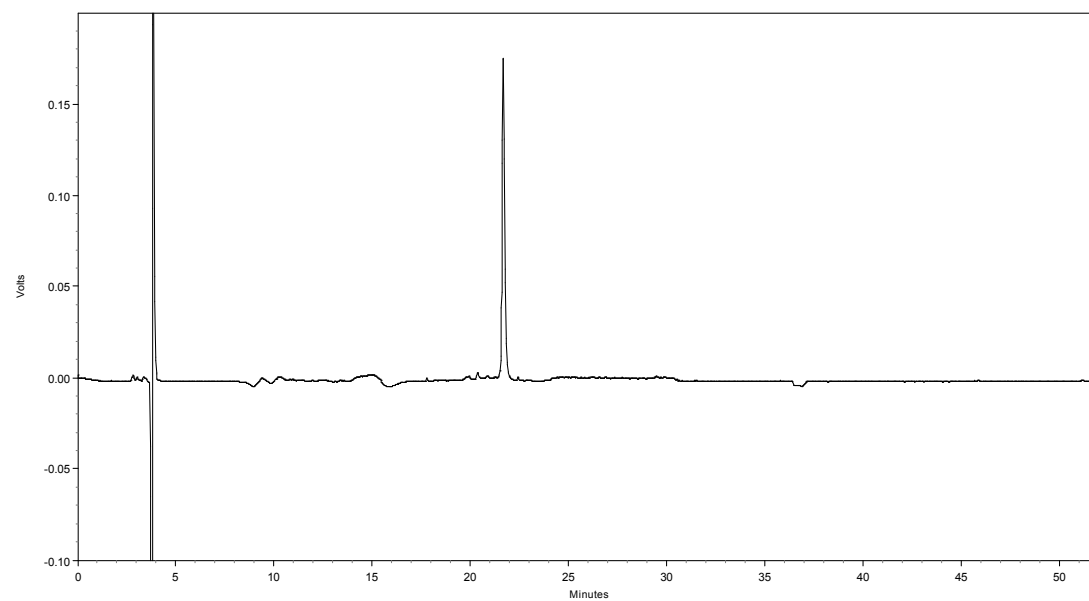


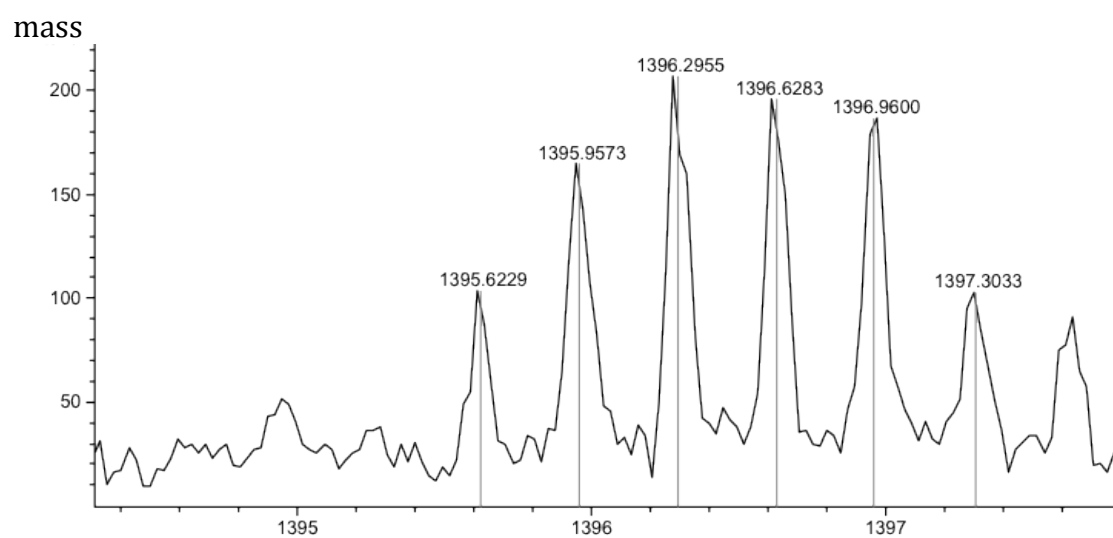
mass



[2-3-3] mimic

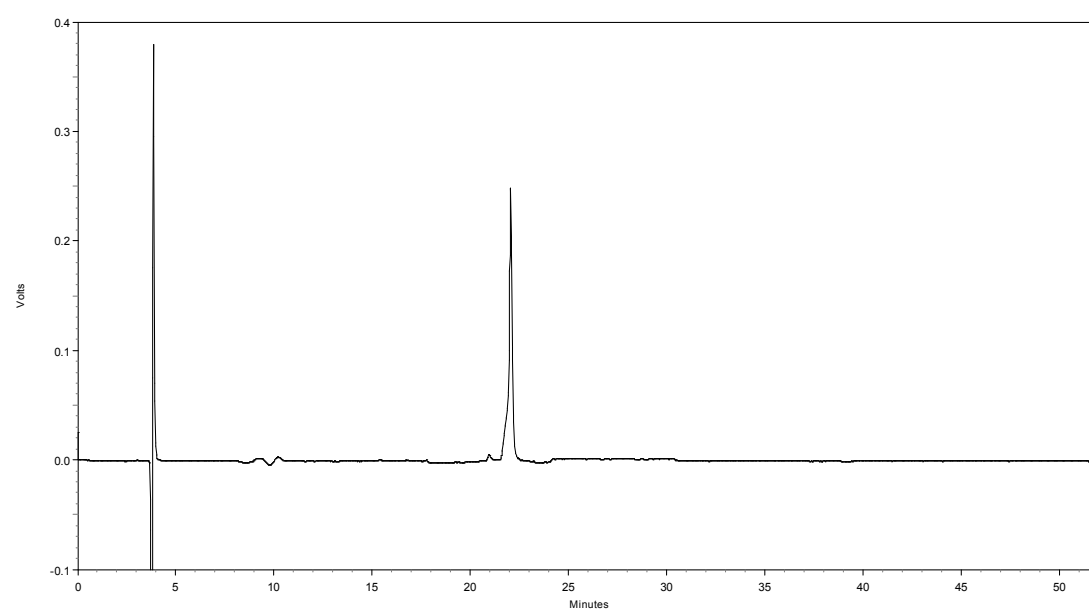
HPLC

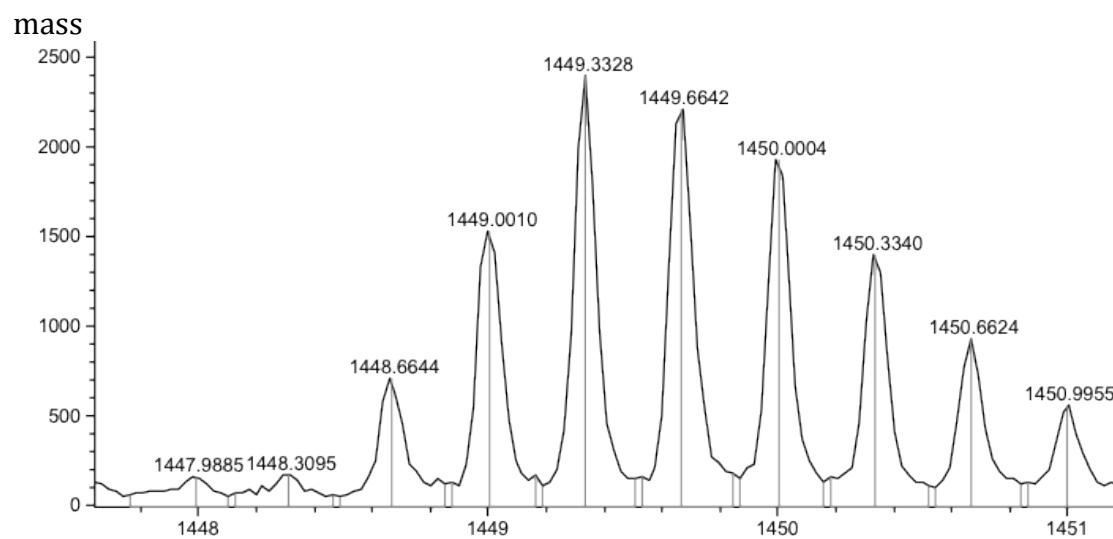




[1-2-2] mimic

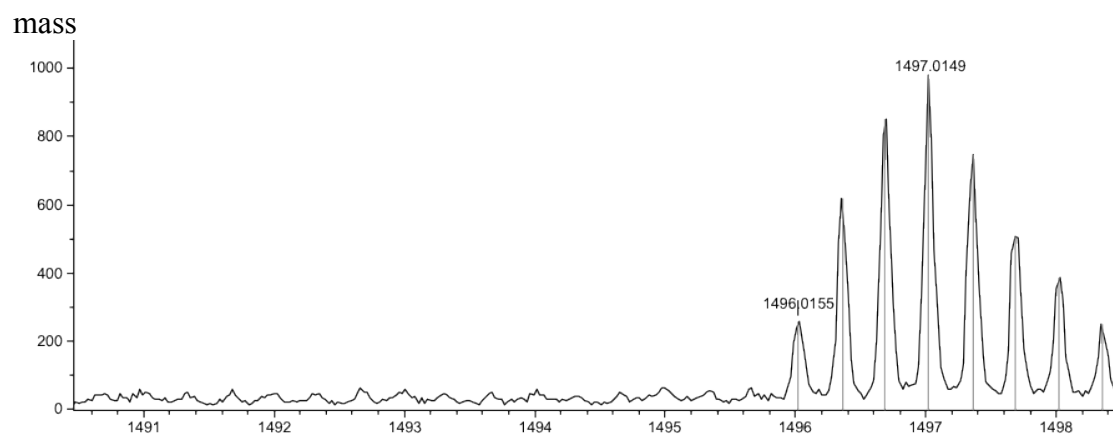
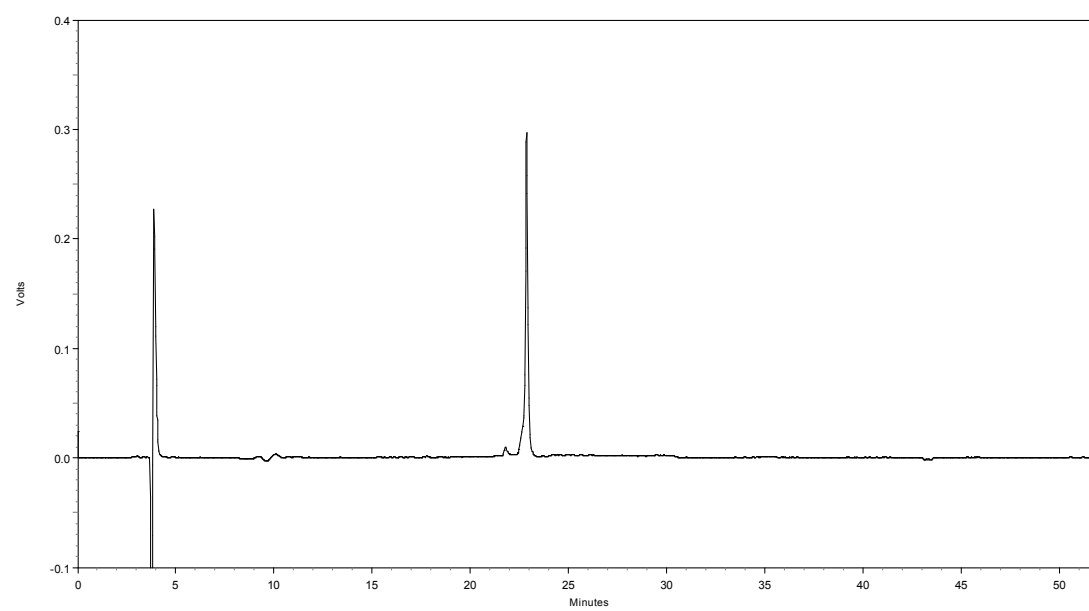
HPLC





[2-2-3] mimic

HPLC



Triple-capped TAC scaffold (for HIV-1 gp120 capture ELISA)

HPLC

