

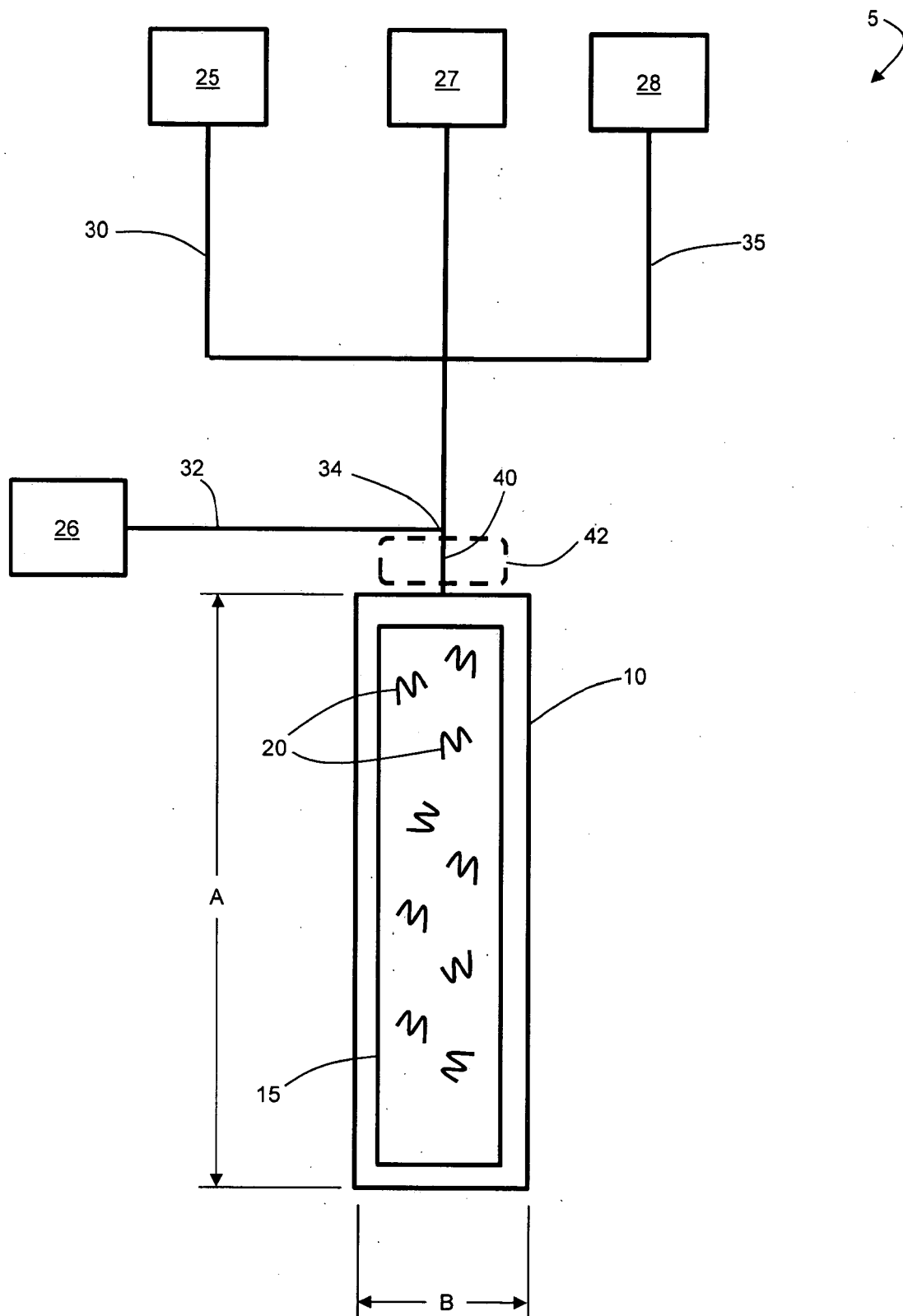
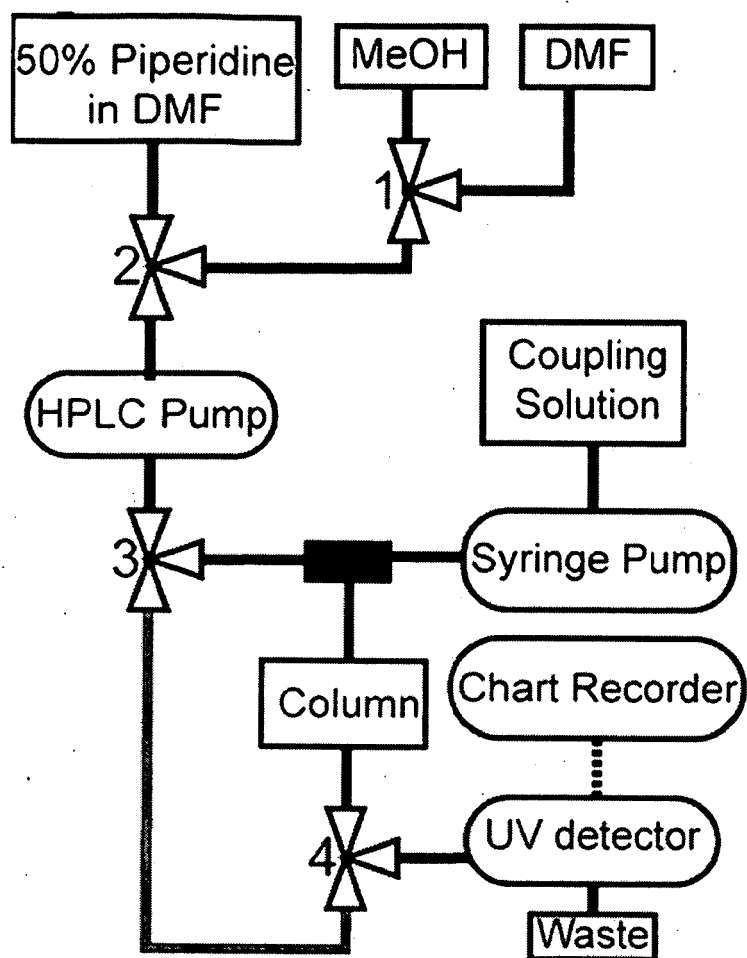
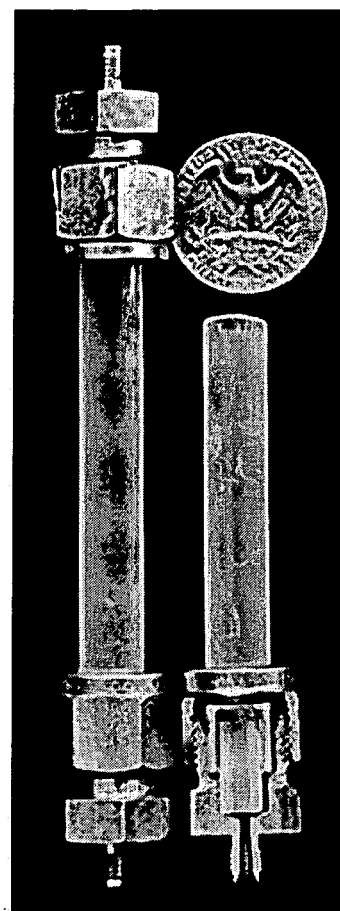
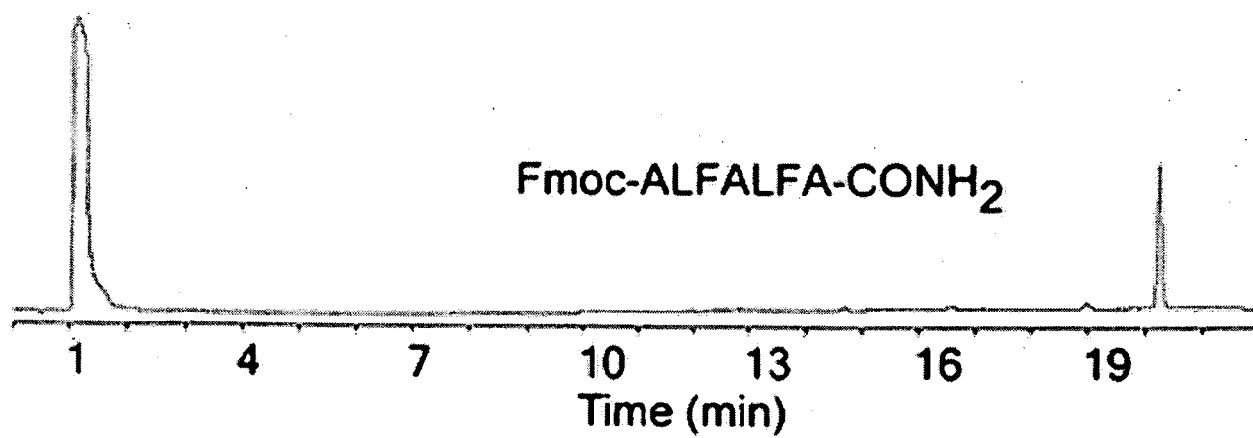


FIG. 1

**FIG. 2A****FIG. 2B****FIG. 2C**

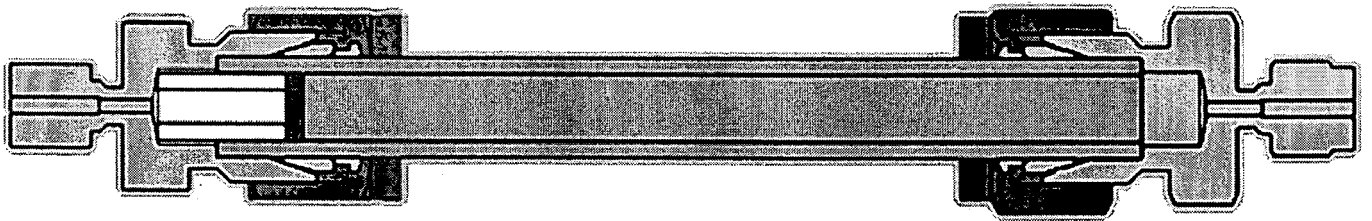
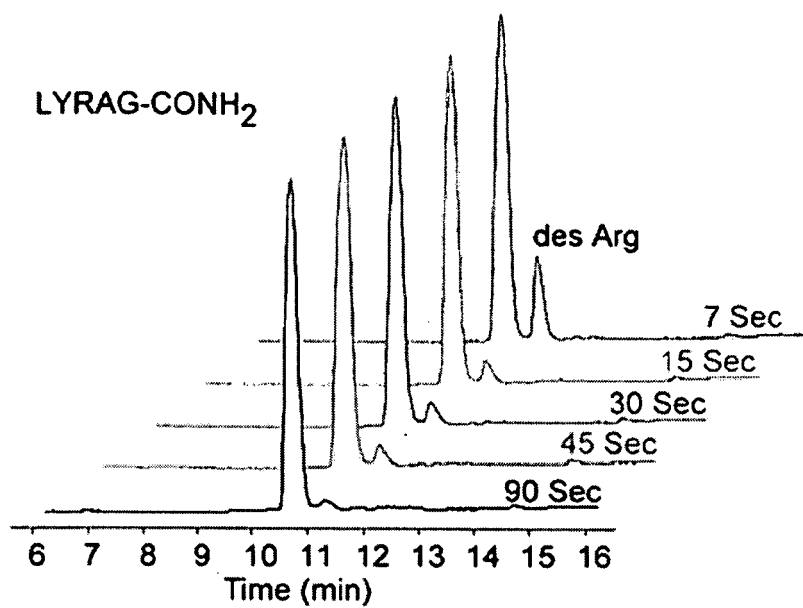
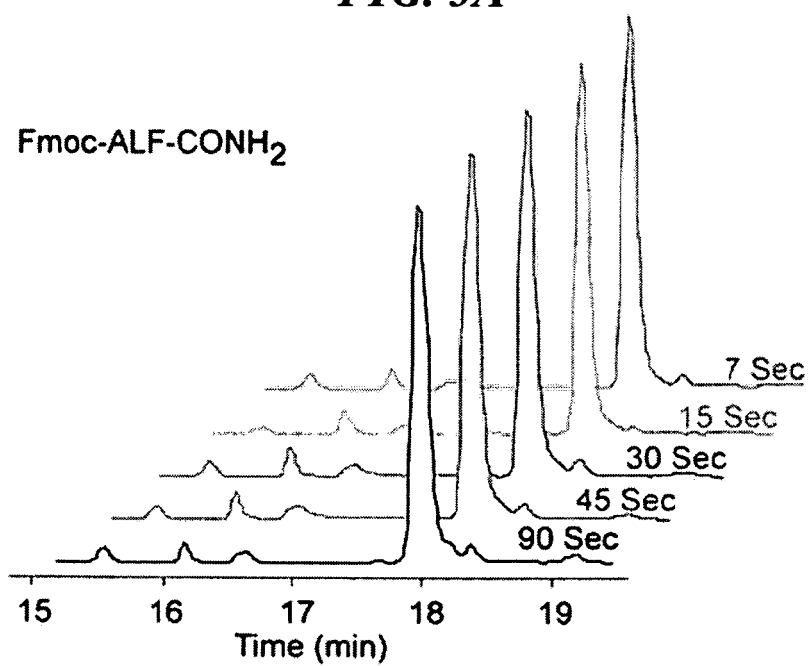
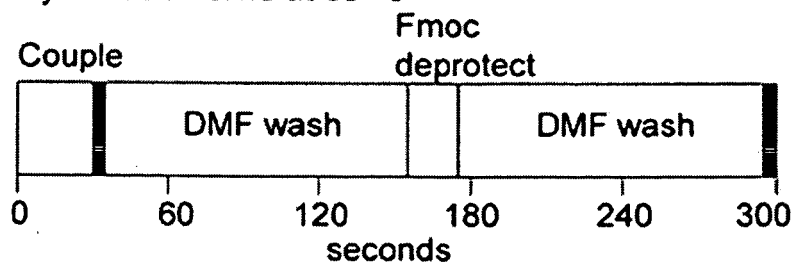


FIG. 2D

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**FIG. 3A****FIG. 3B**

Synthetic timeline at 60 °C

**FIG. 3C**

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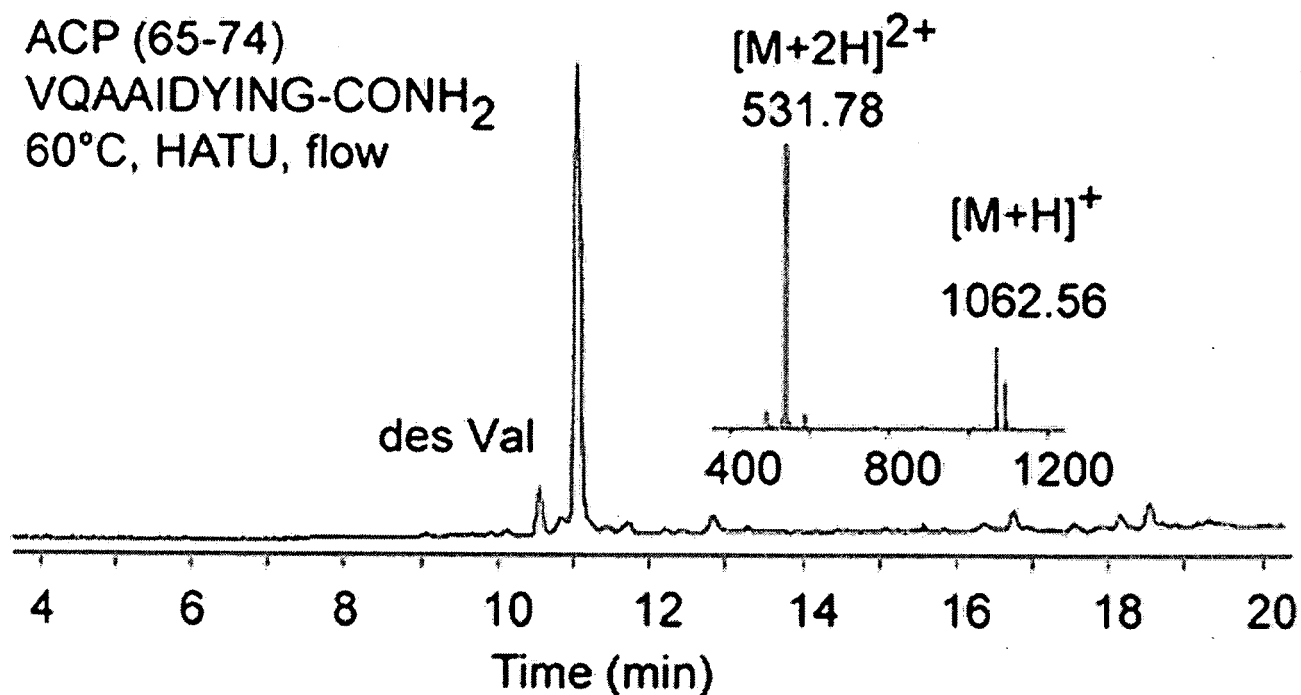


FIG. 4A

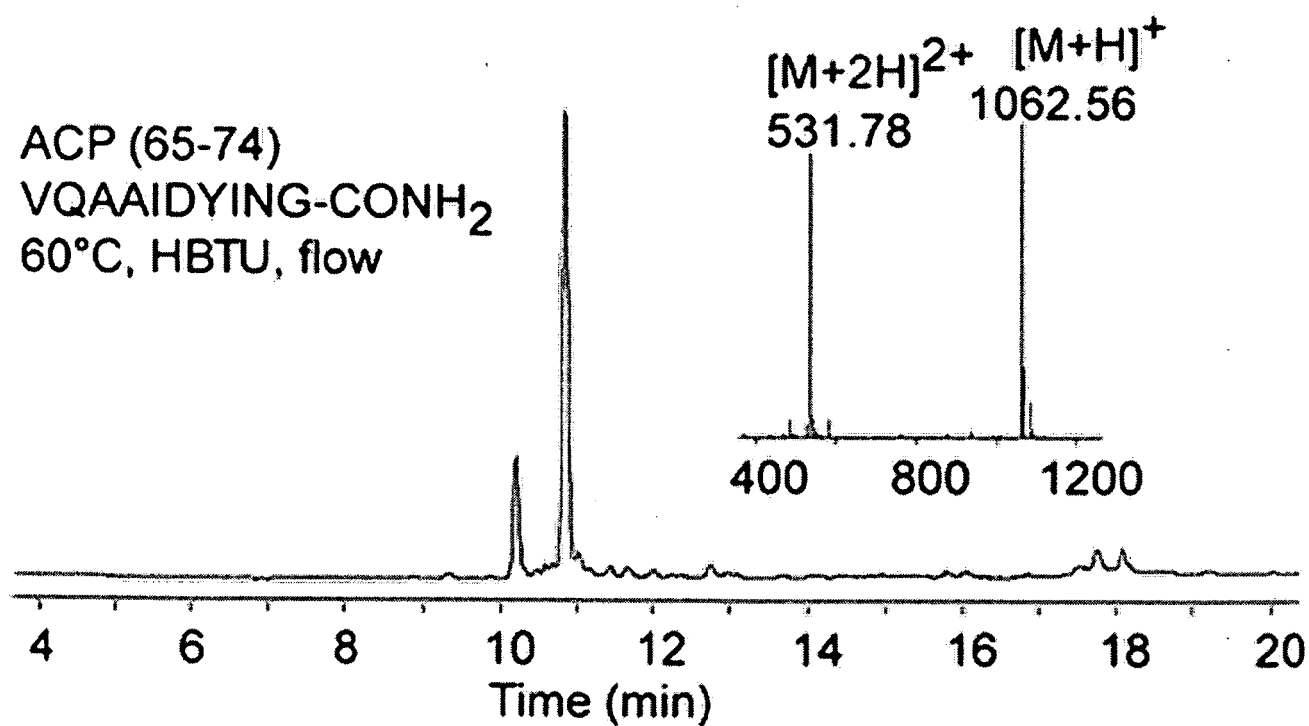


FIG. 4B

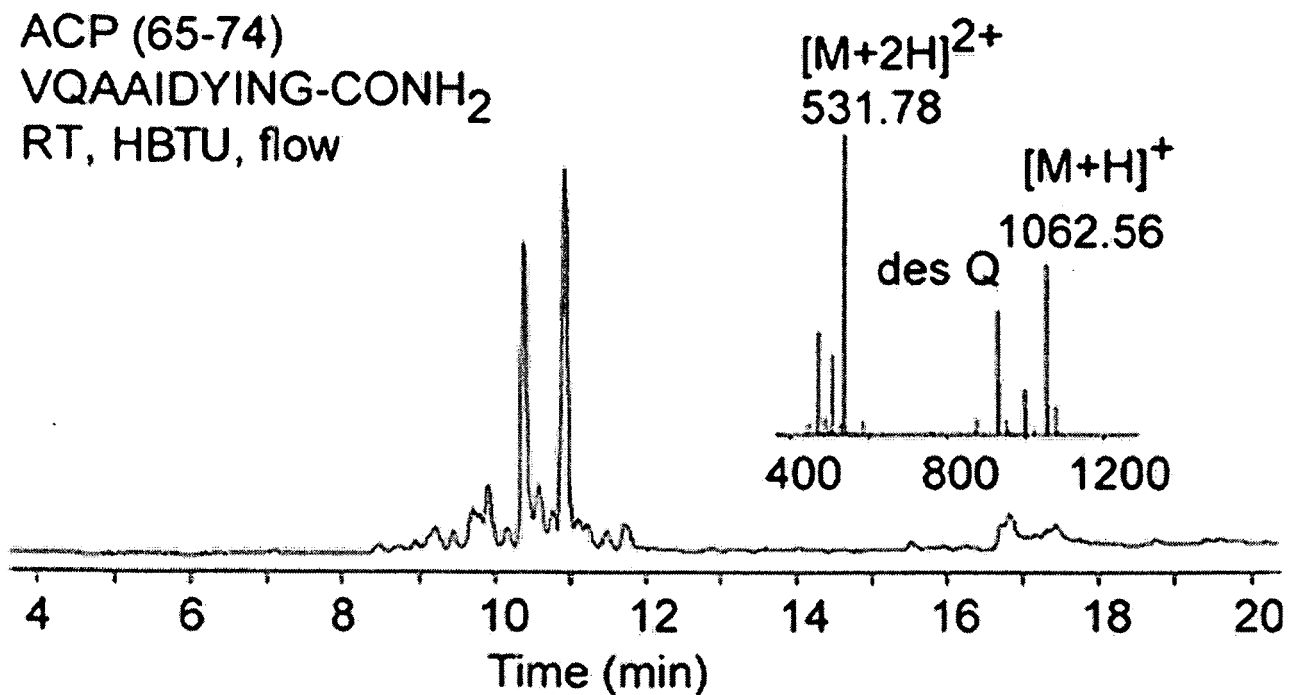


FIG. 4C

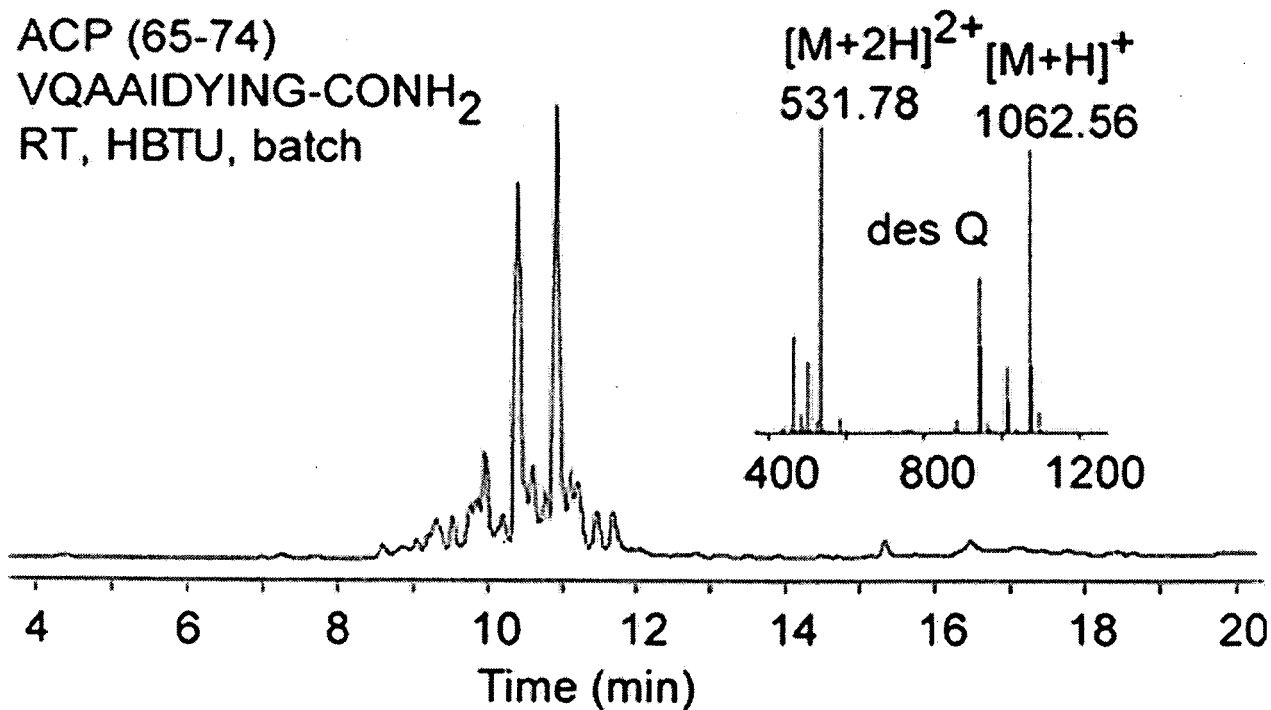


FIG. 4D

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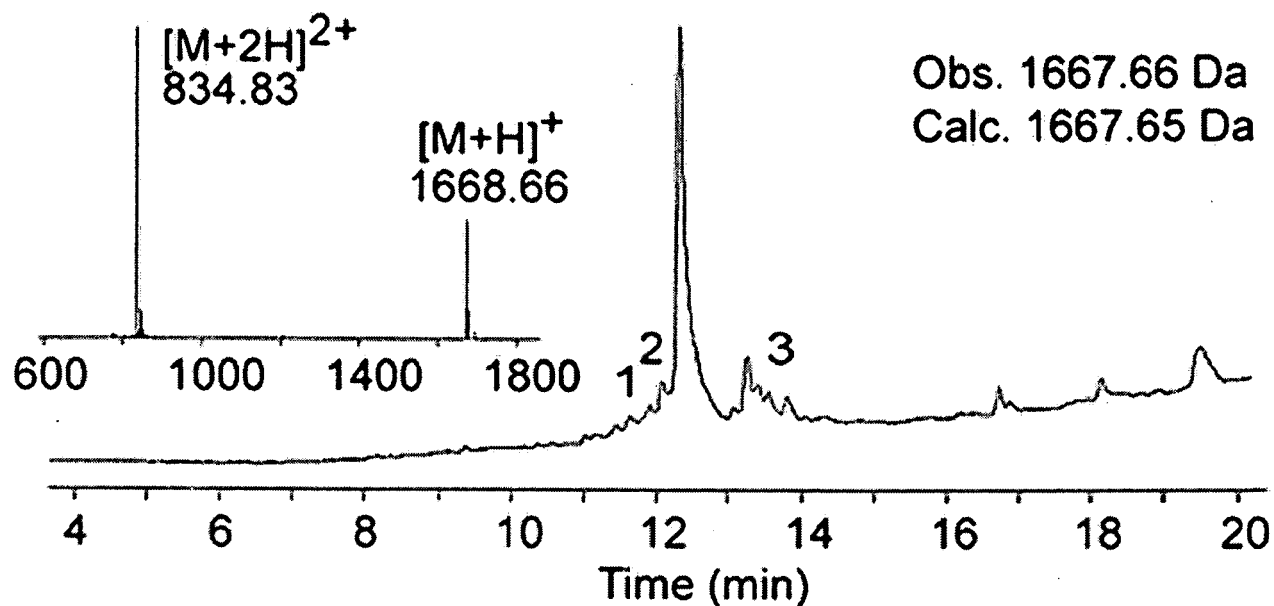
PnIA(A10L) Conotoxin GCCSLPPCALNNPDYC-CONH₂

FIG. 5A

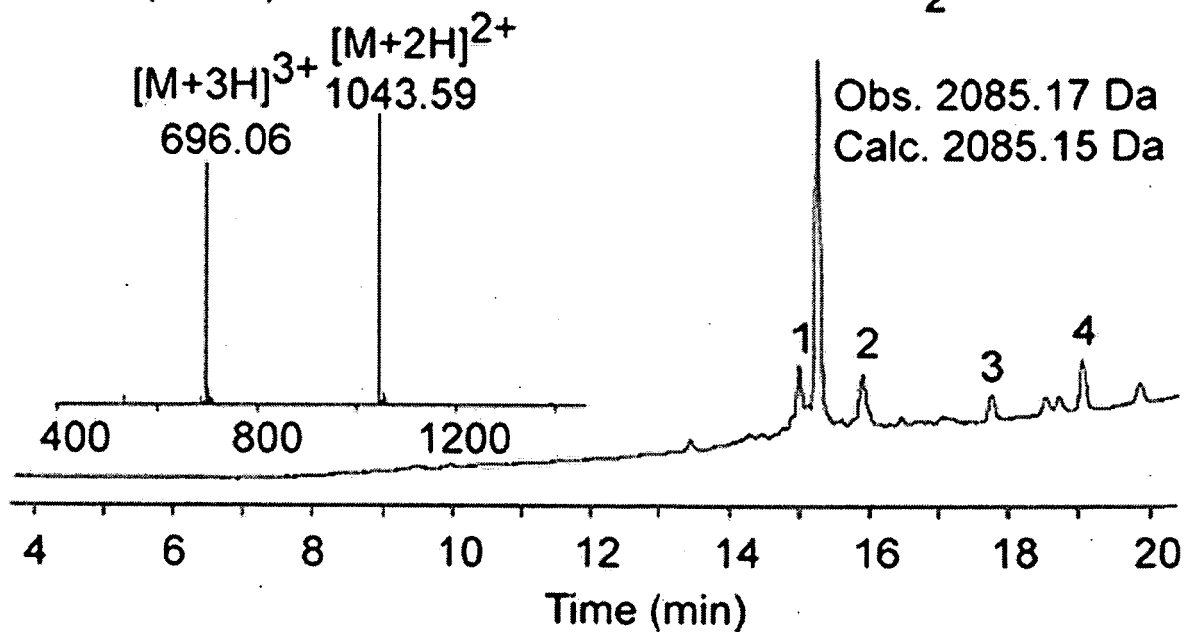
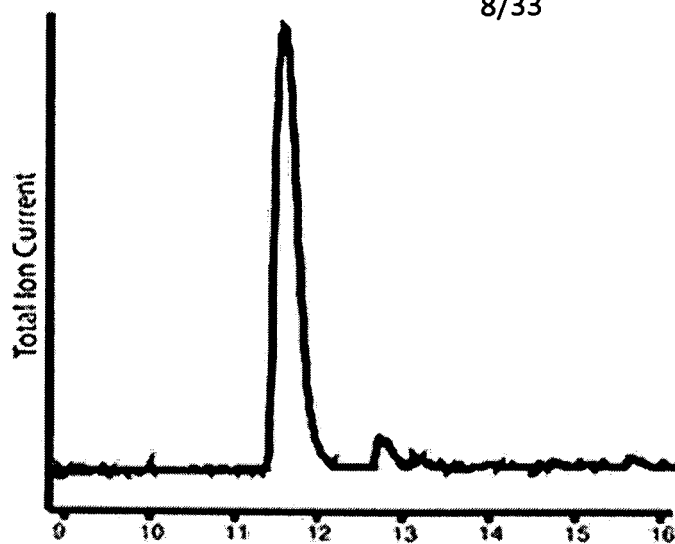
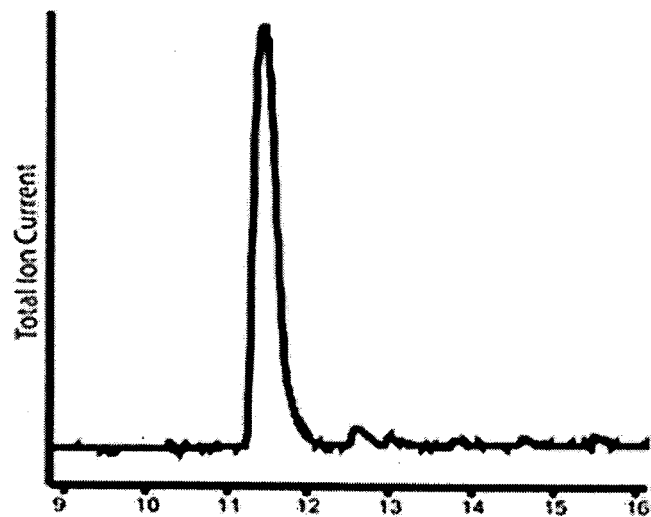
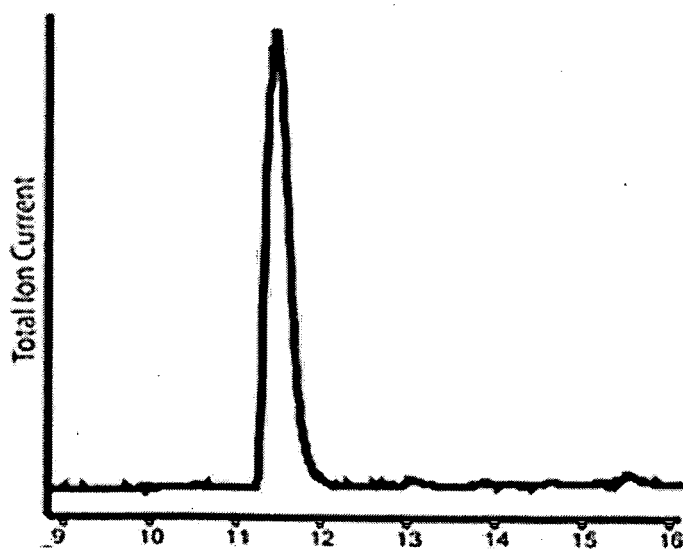
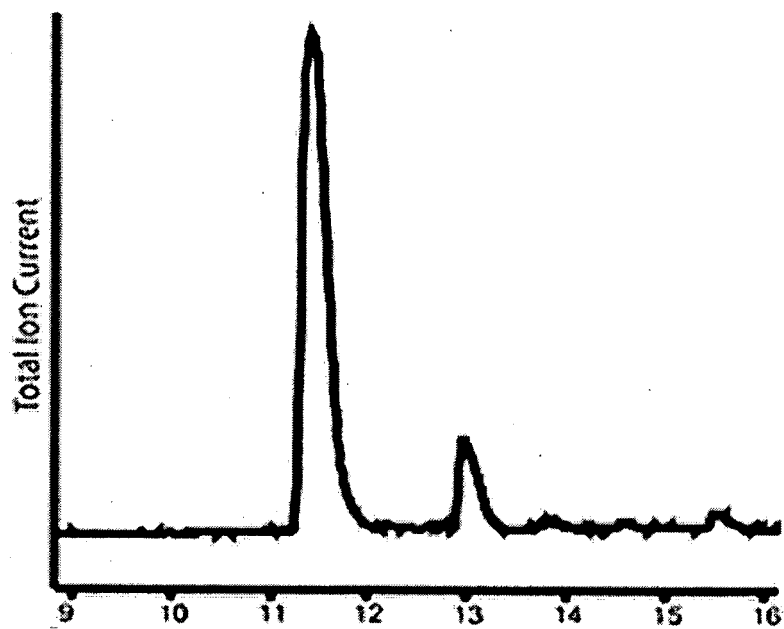
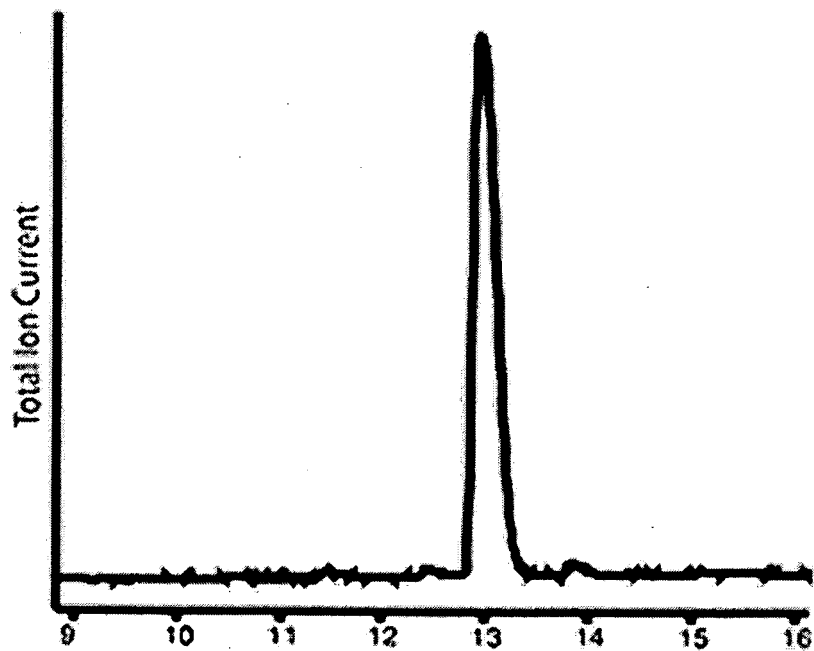
HIV-1 PR (81-99) PVNIIGRNLLTQIGCTLNF-CONH₂

FIG. 5B

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**FIG. 6A****FIG. 6B****FIG. 6C**

*FIG. 6D**FIG. 6E*

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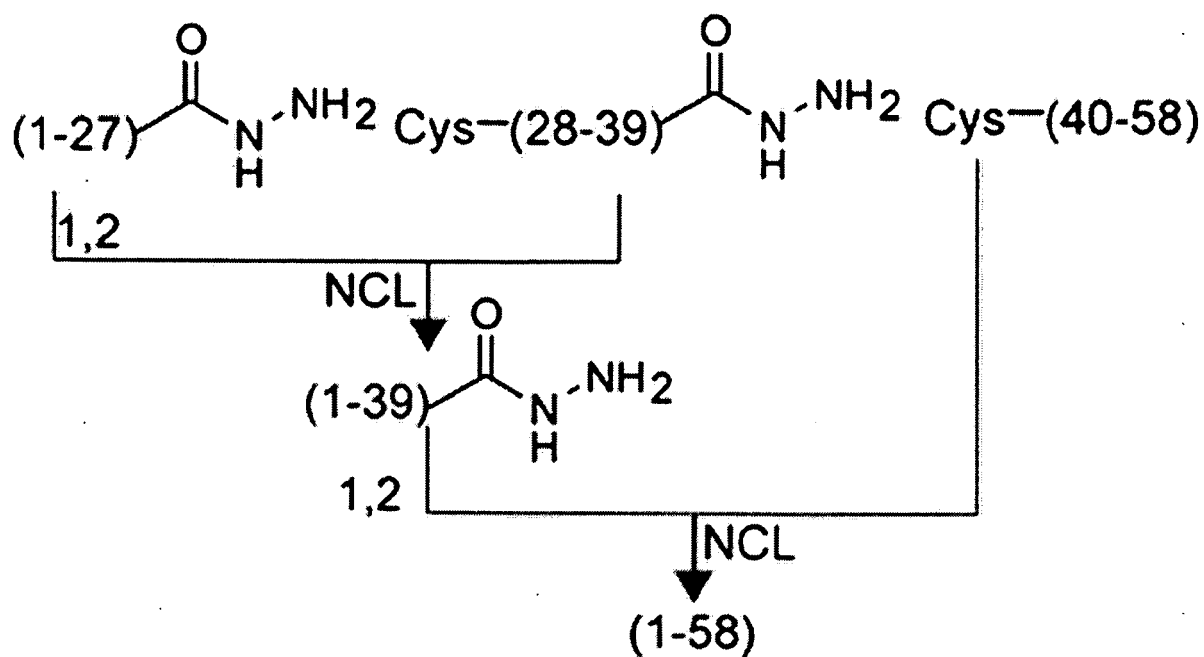


FIG. 7A

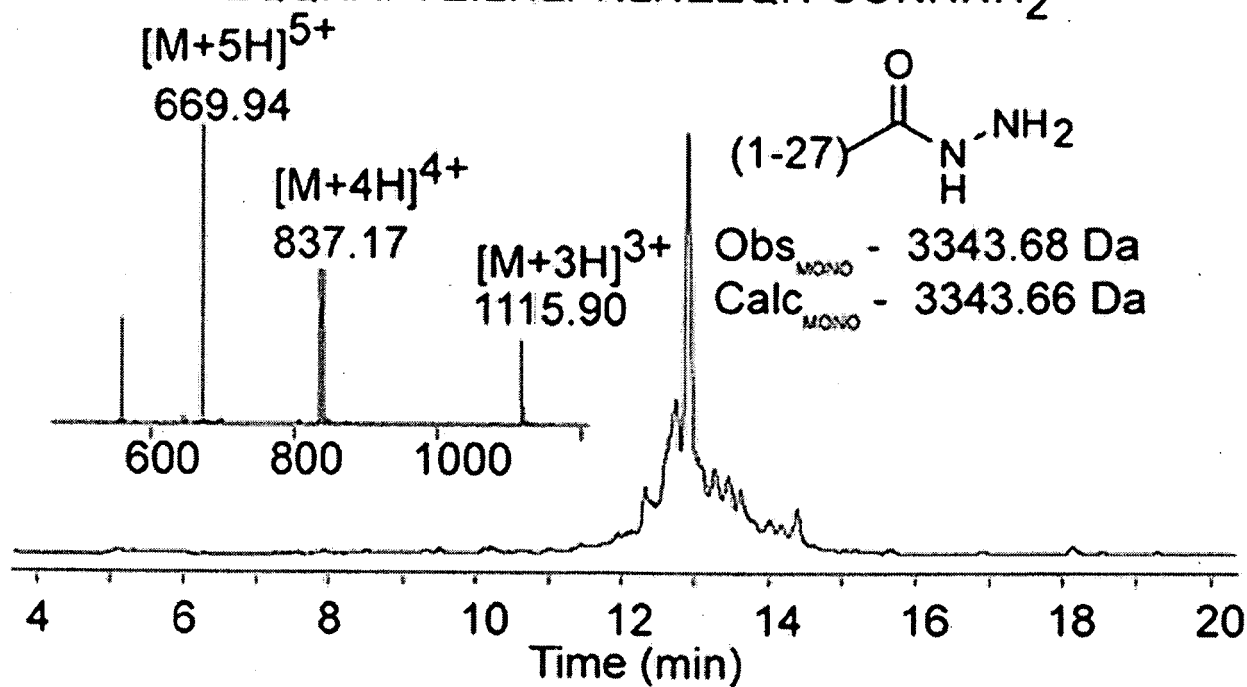
VDNKFNKEQQNAFYELHLPNLNEEQR-CONHNNH₂

FIG. 7B

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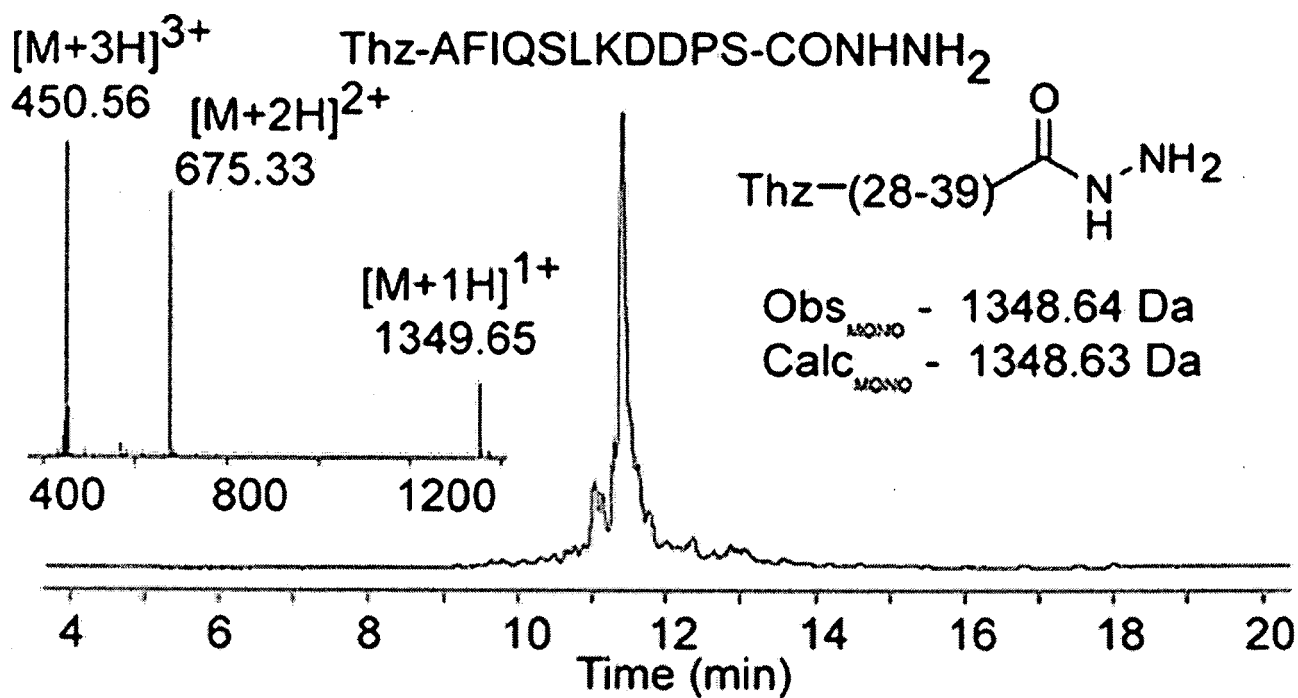


FIG. 7C

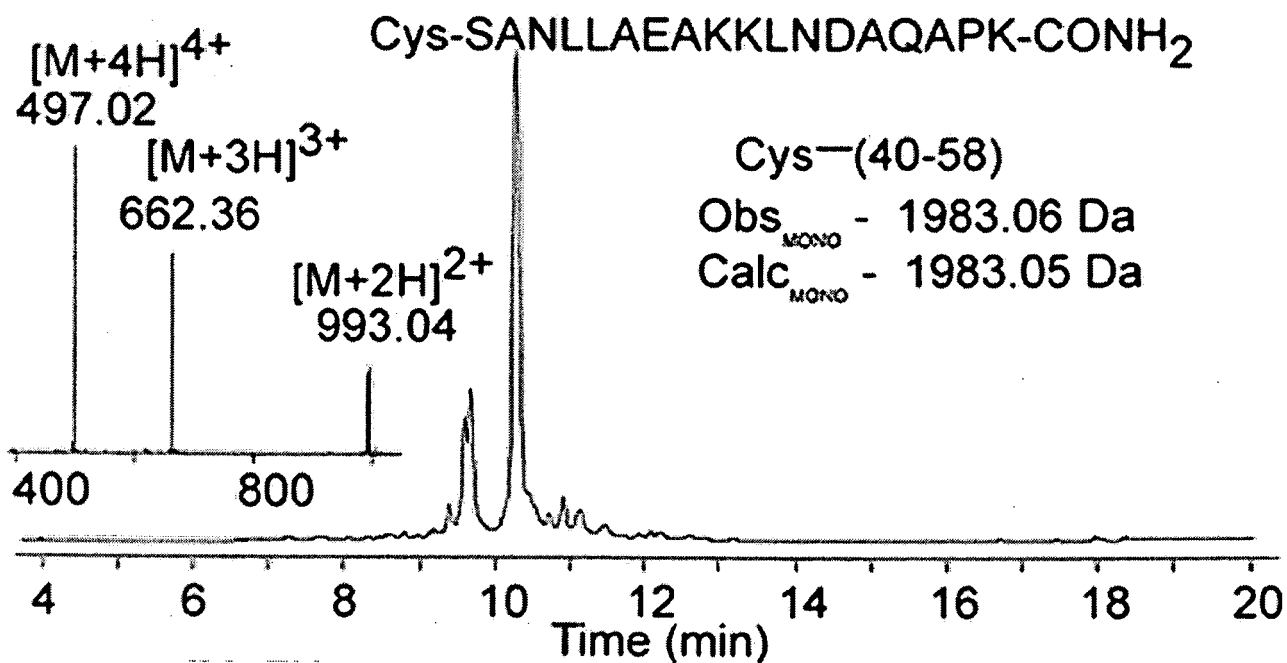
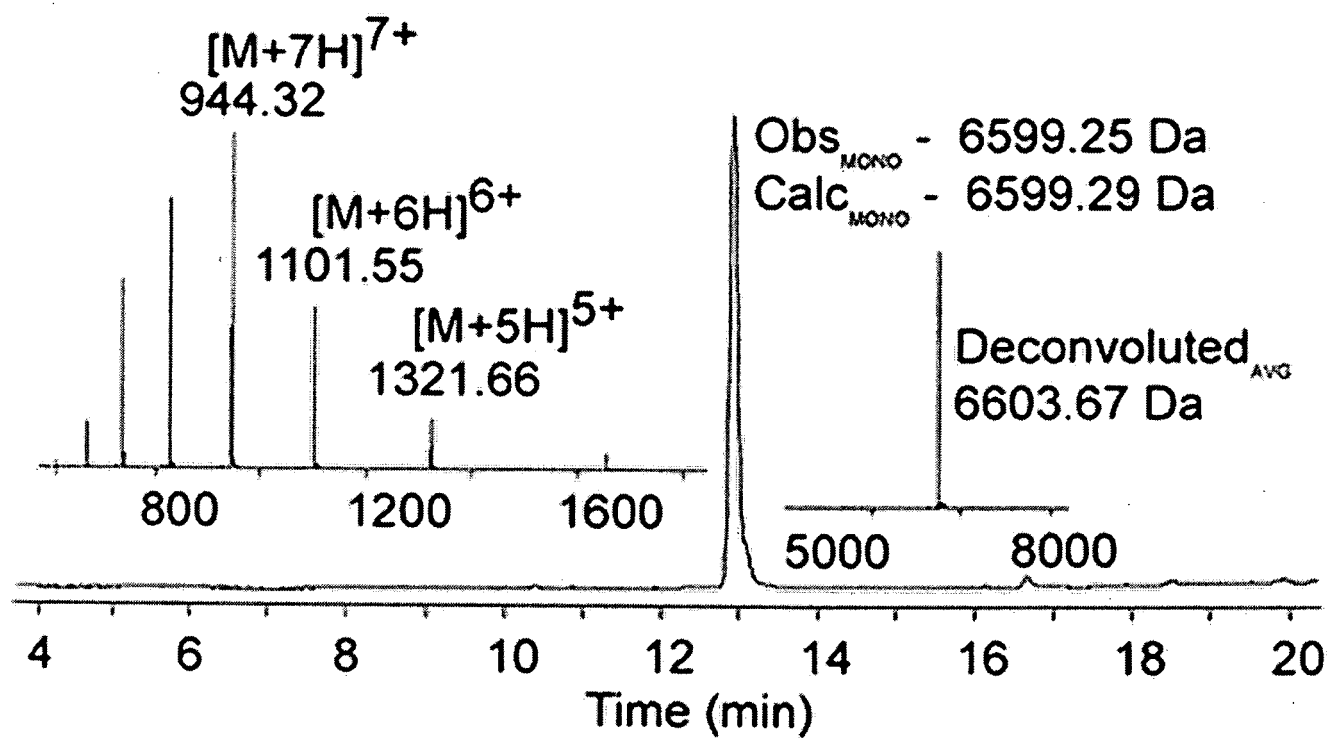
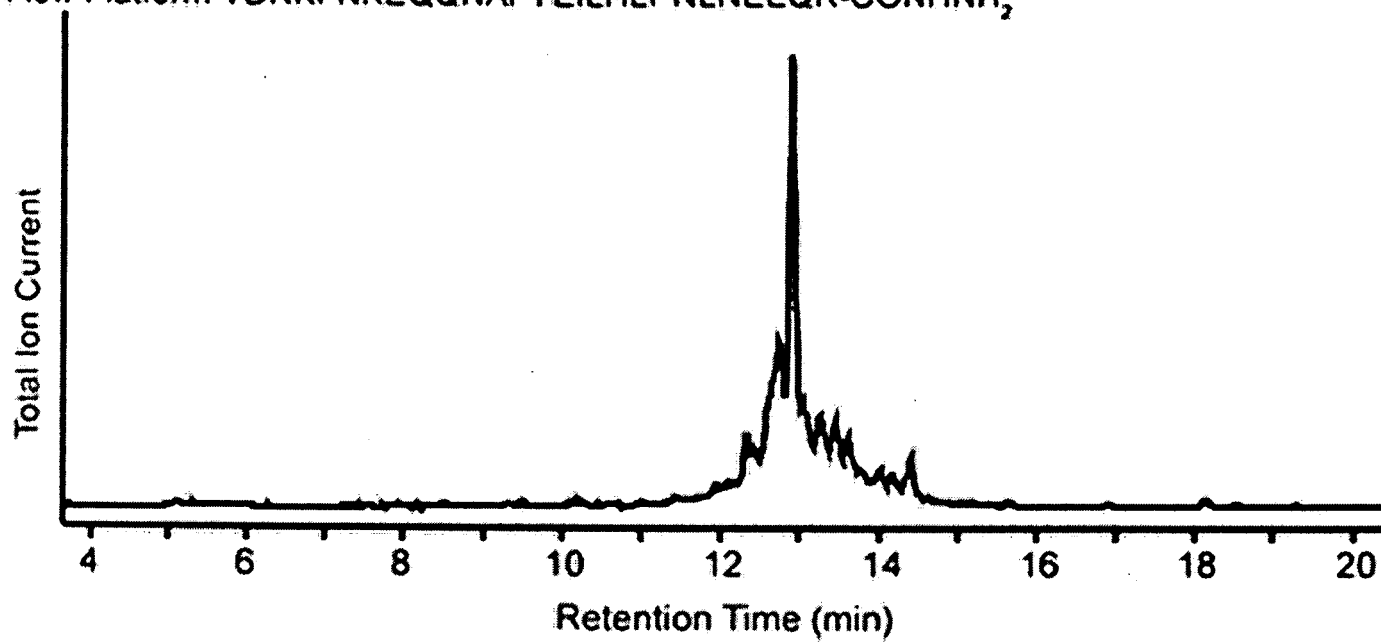


FIG. 7D

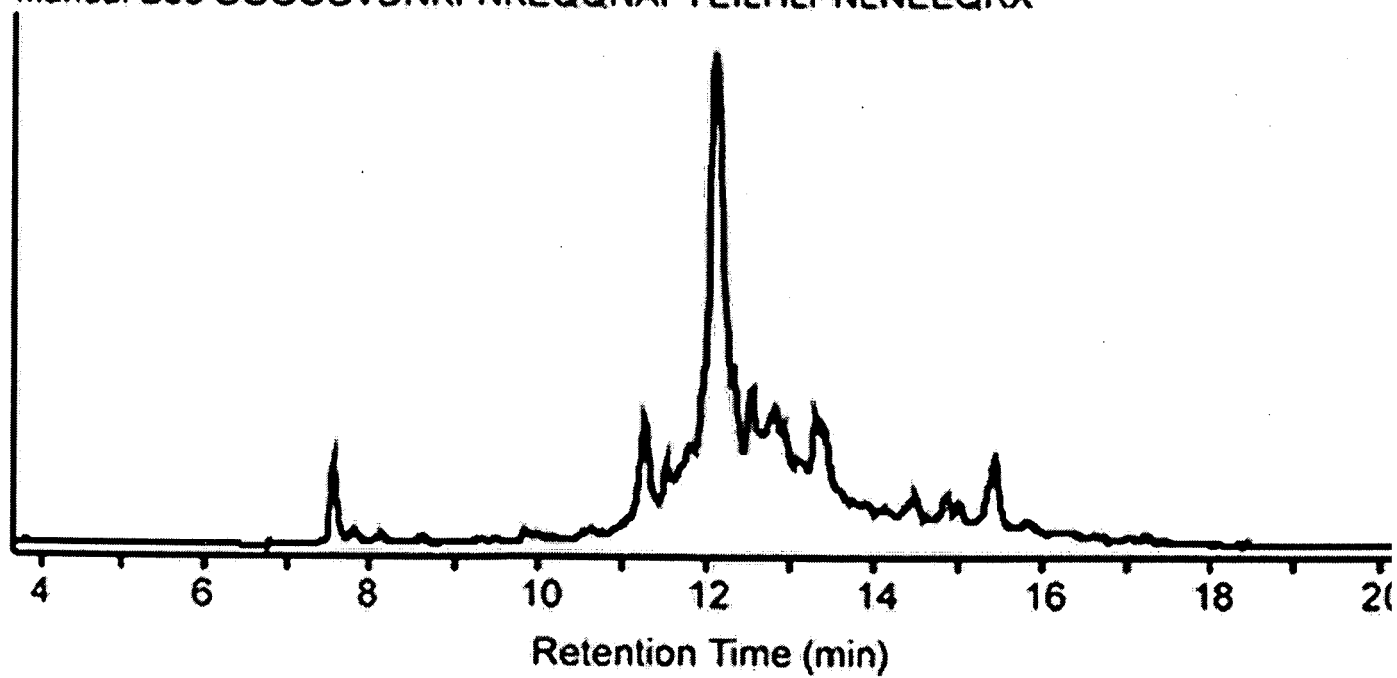
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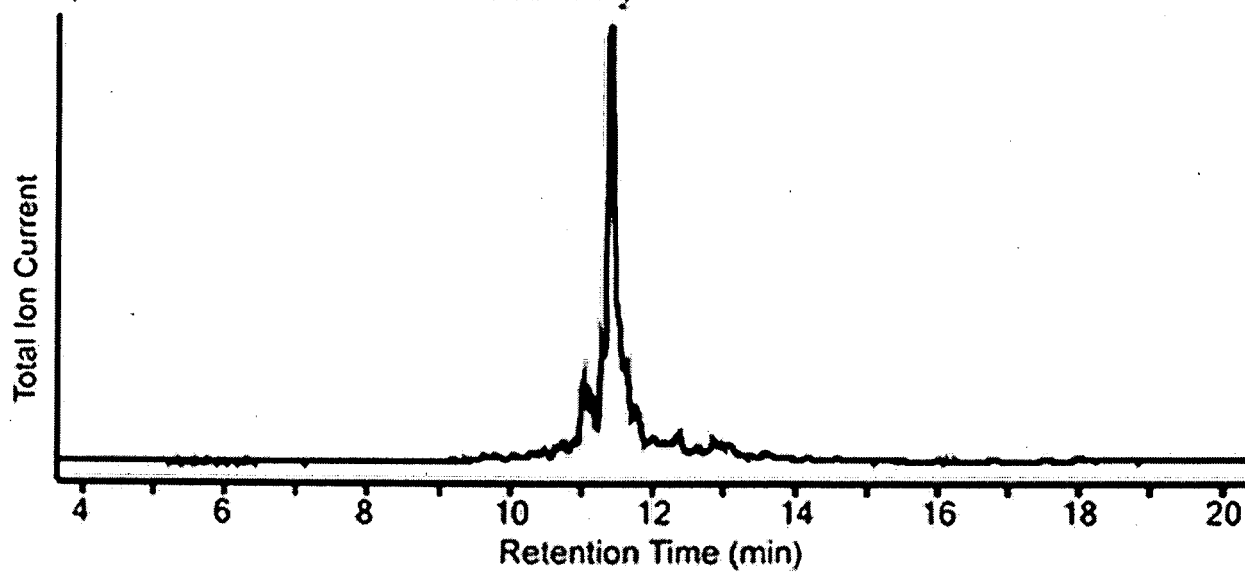
**FIG. 7E**

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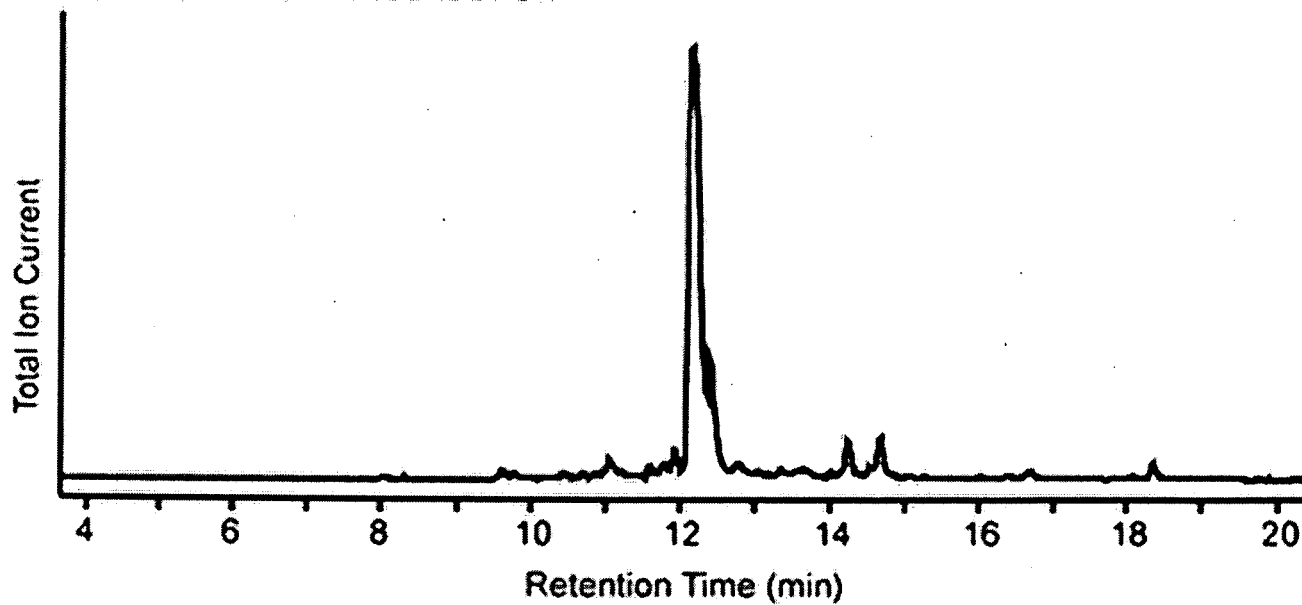
Flow Platform VDNKFNKEQQNAFYIELHLPNLNEEQR-CONHNH₂*FIG. 8A*

Manual Boc GGGGGVDNKFNKEQQNAFYIELHLPNLNEEQRX

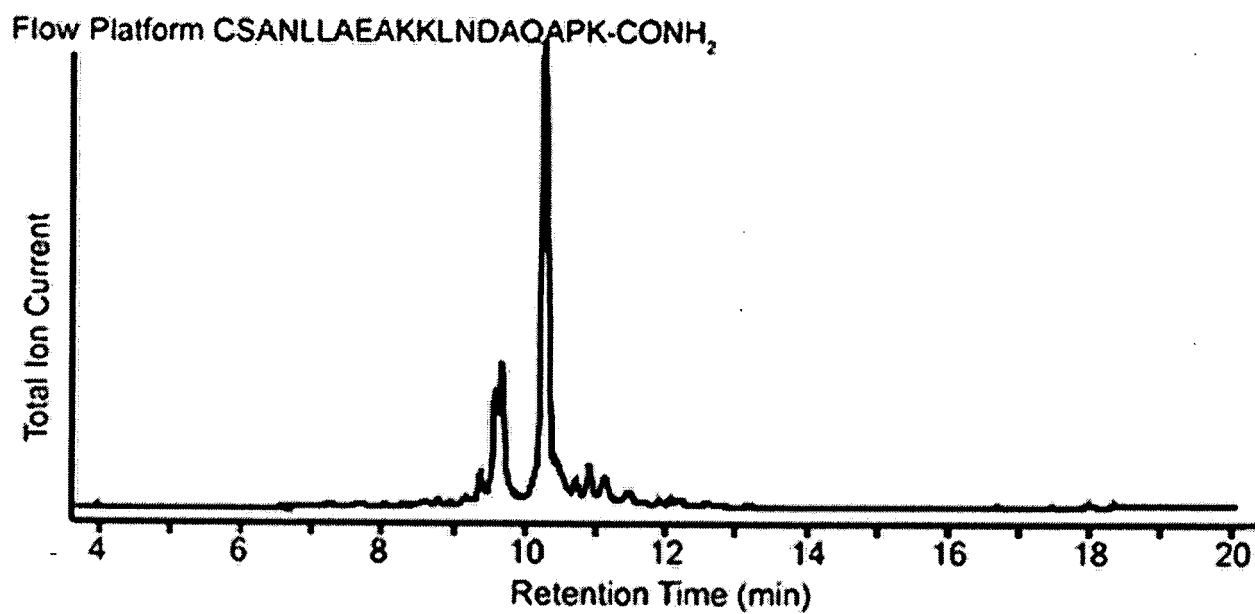
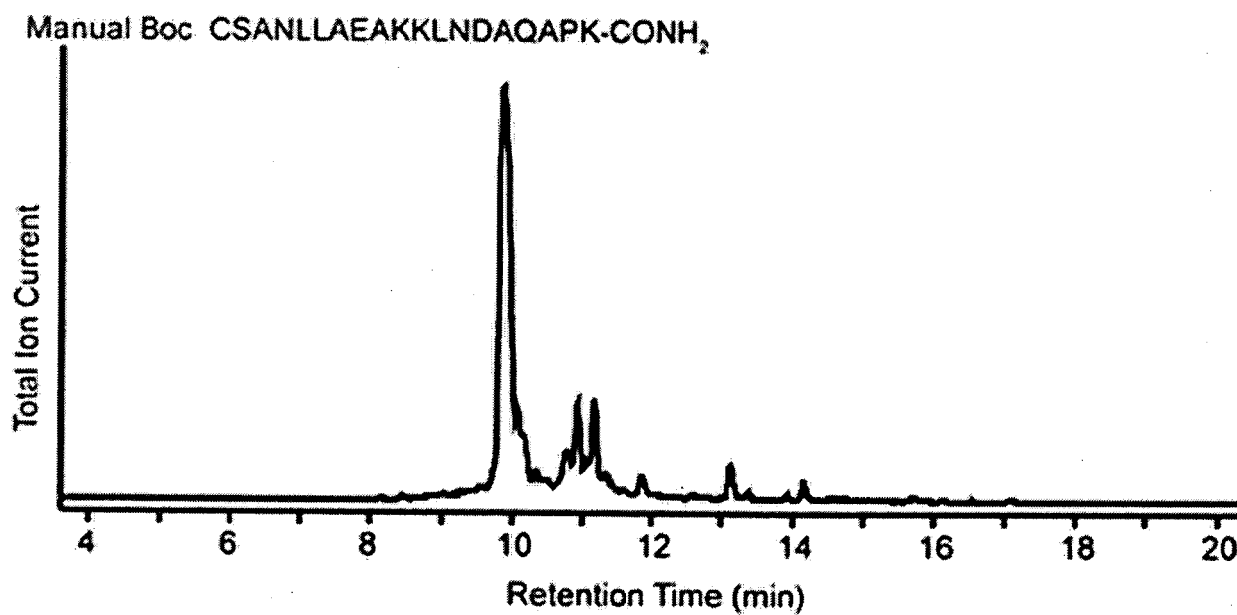
*FIG. 8B*

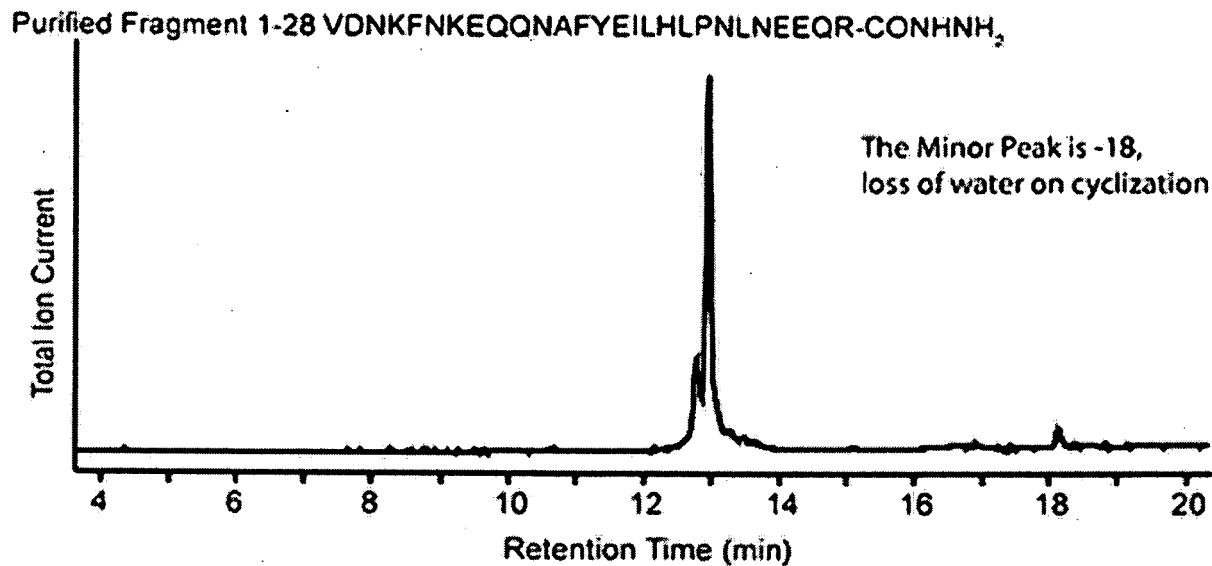
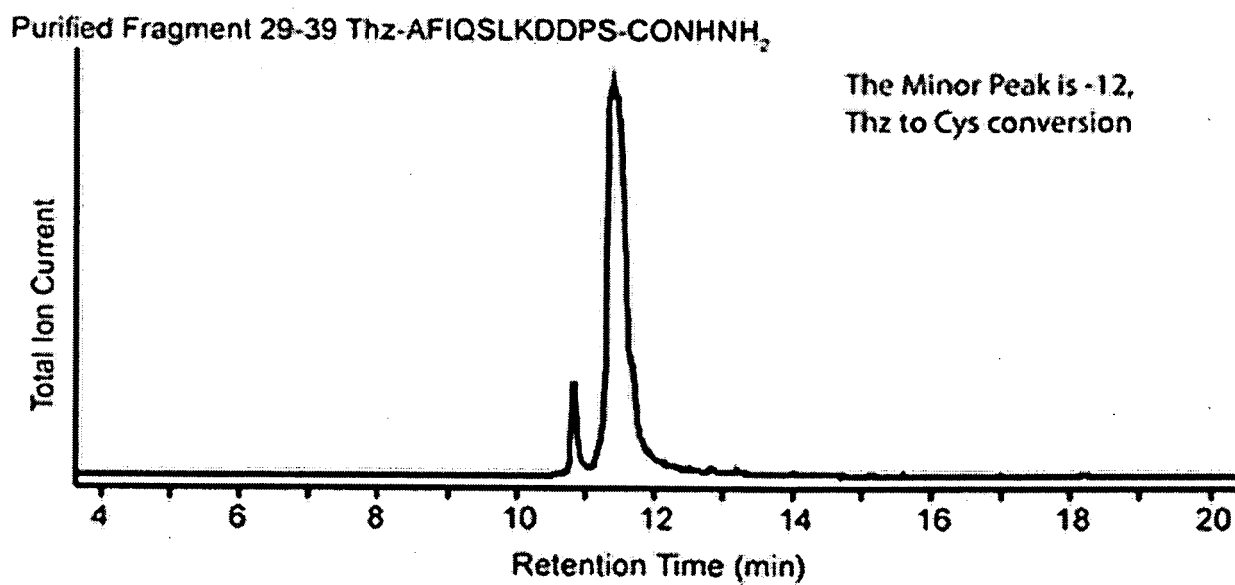
Flow platform Thz-AFIQSLKDDPS-CONHNH₂*FIG. 8C*

Manual Boc Thz-AFIQSLKDDPSX

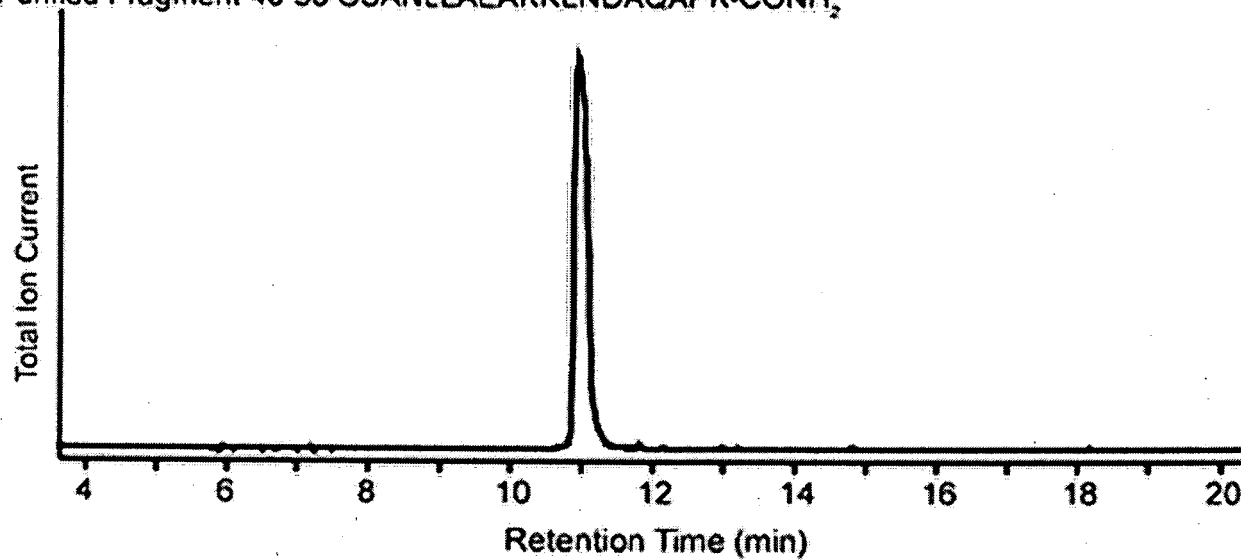
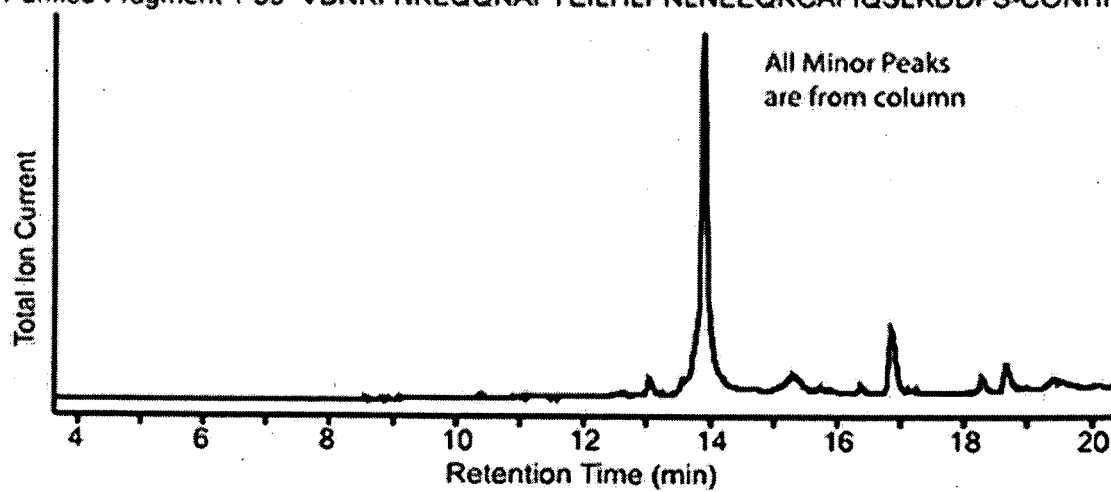
*FIG. 8D*

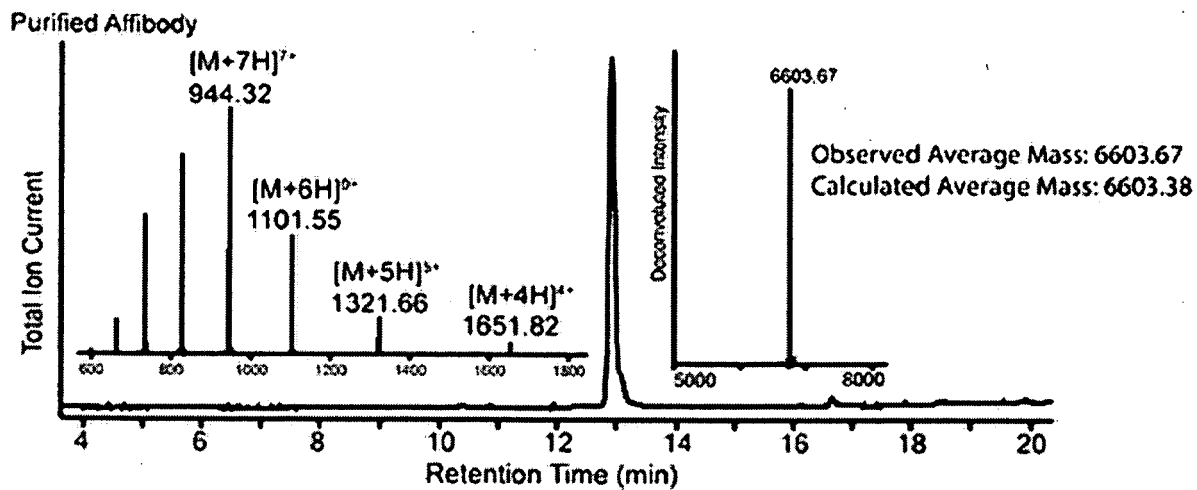
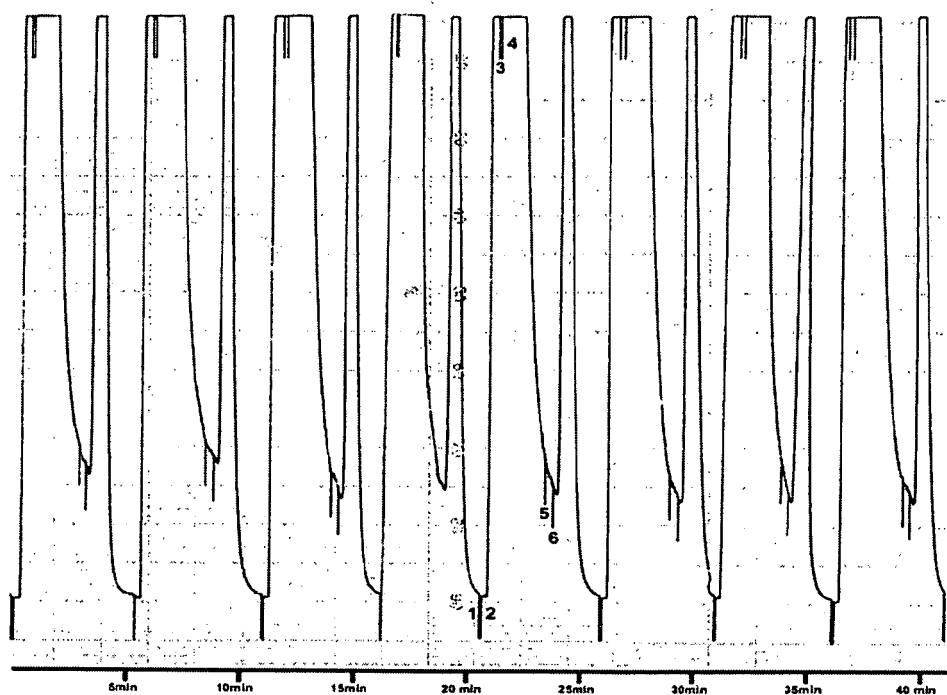
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*FIG. 8E**FIG. 8F*

**FIG. 9A****FIG. 9B**

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Purified Fragment 40-58 CSANLLAEAKKLNDAPK-CONH₂**FIG. 9C**Purified Fragment 1-39 VDNKFNKEQQNAFYELHLPNLNEEQRCAFIQSLKDDPS-CONH₂**FIG. 9D**

**FIG. 9E****FIG. 10**

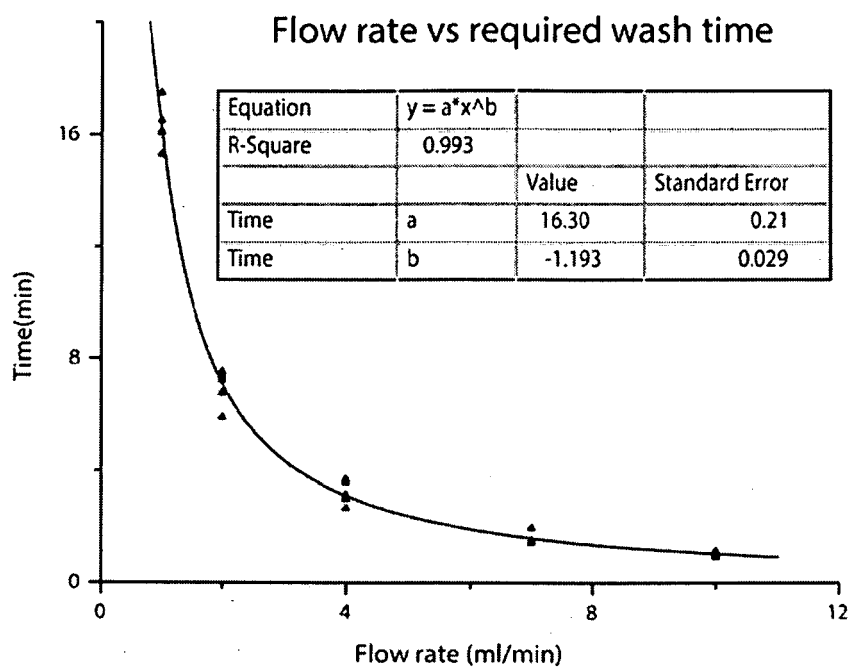
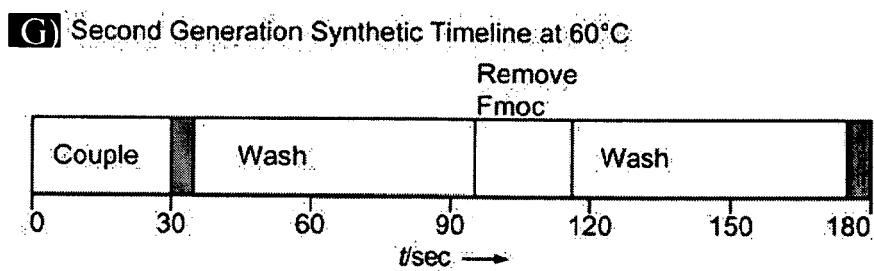
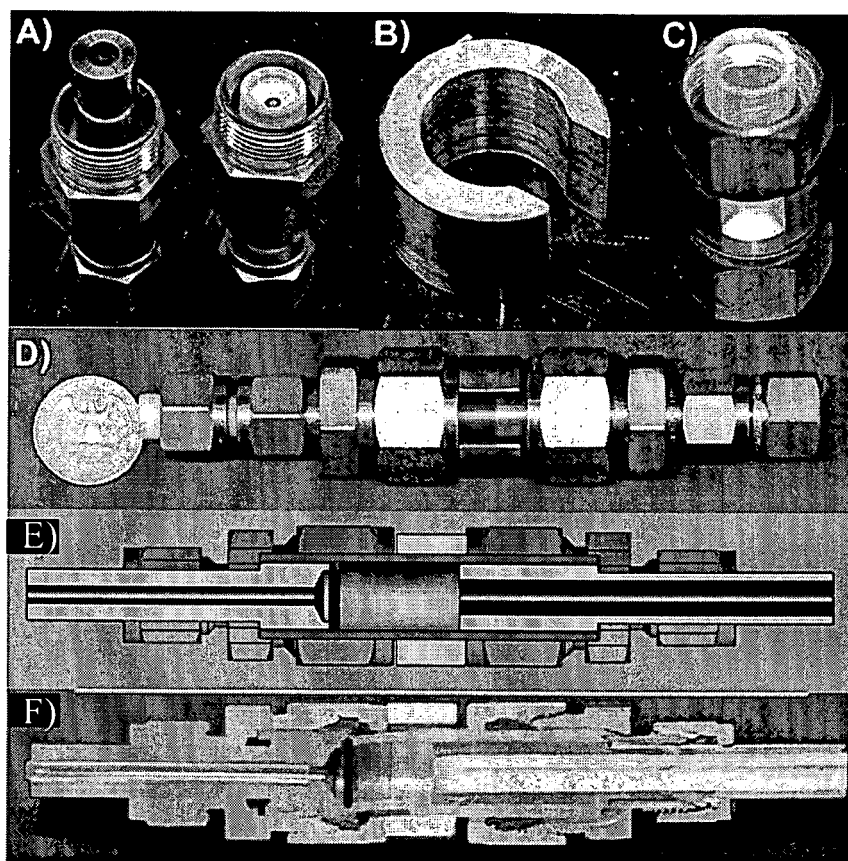
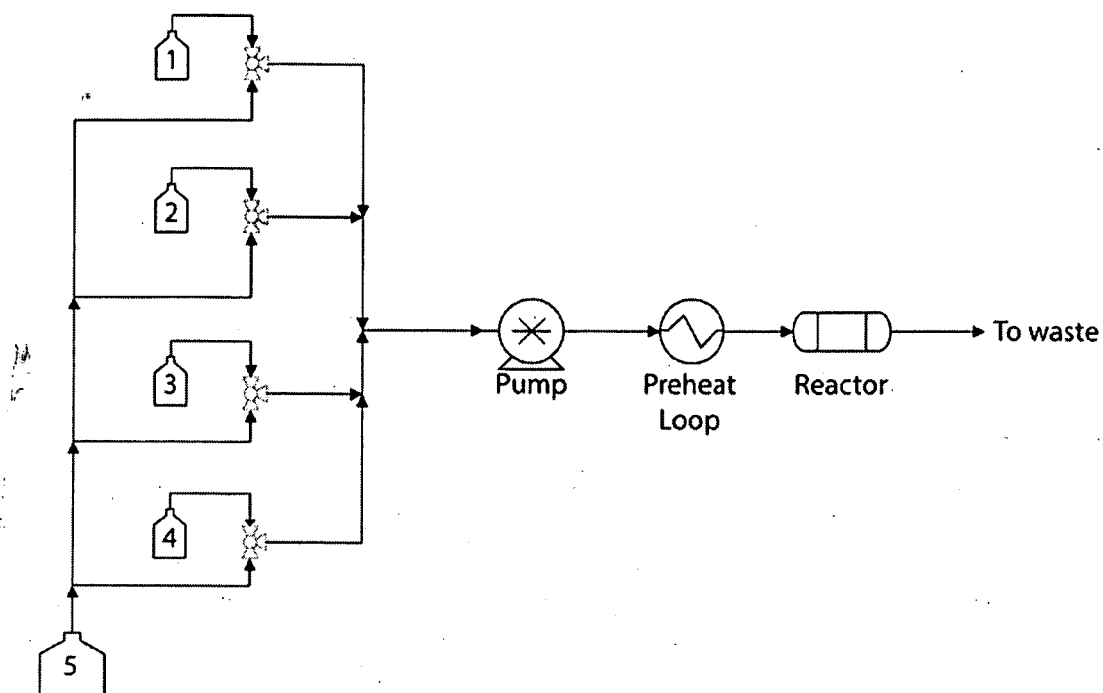
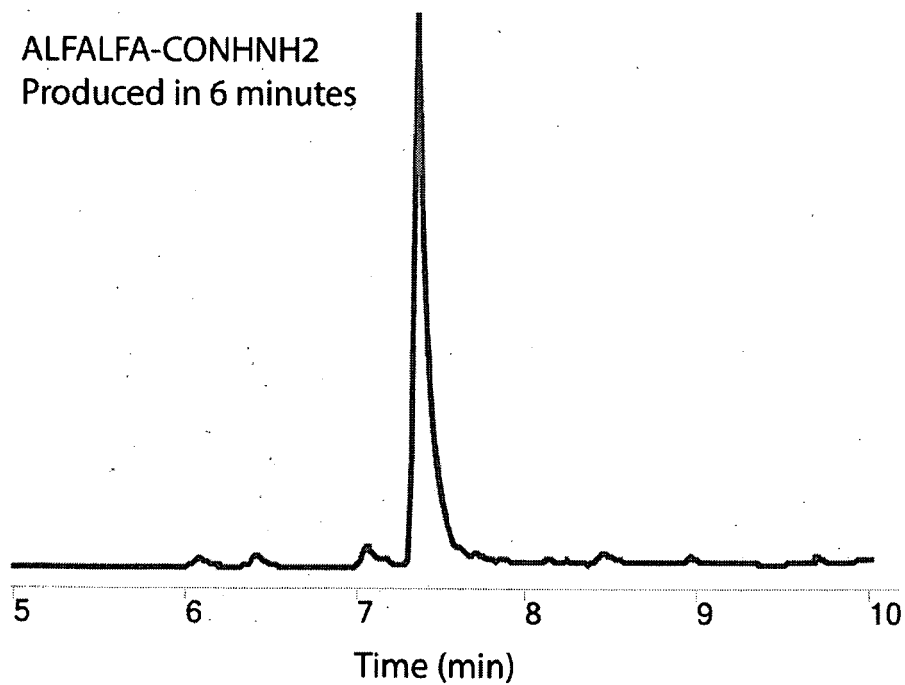


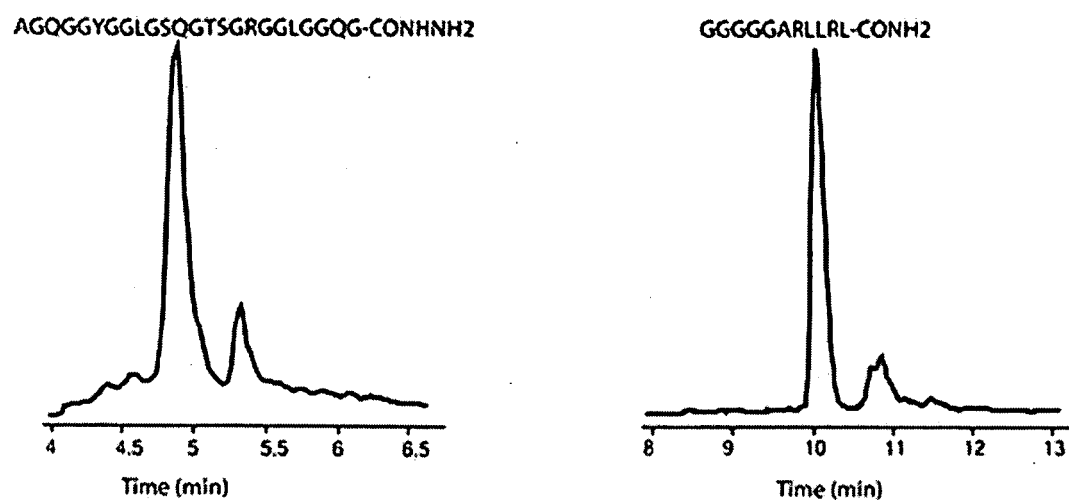
FIG. 11

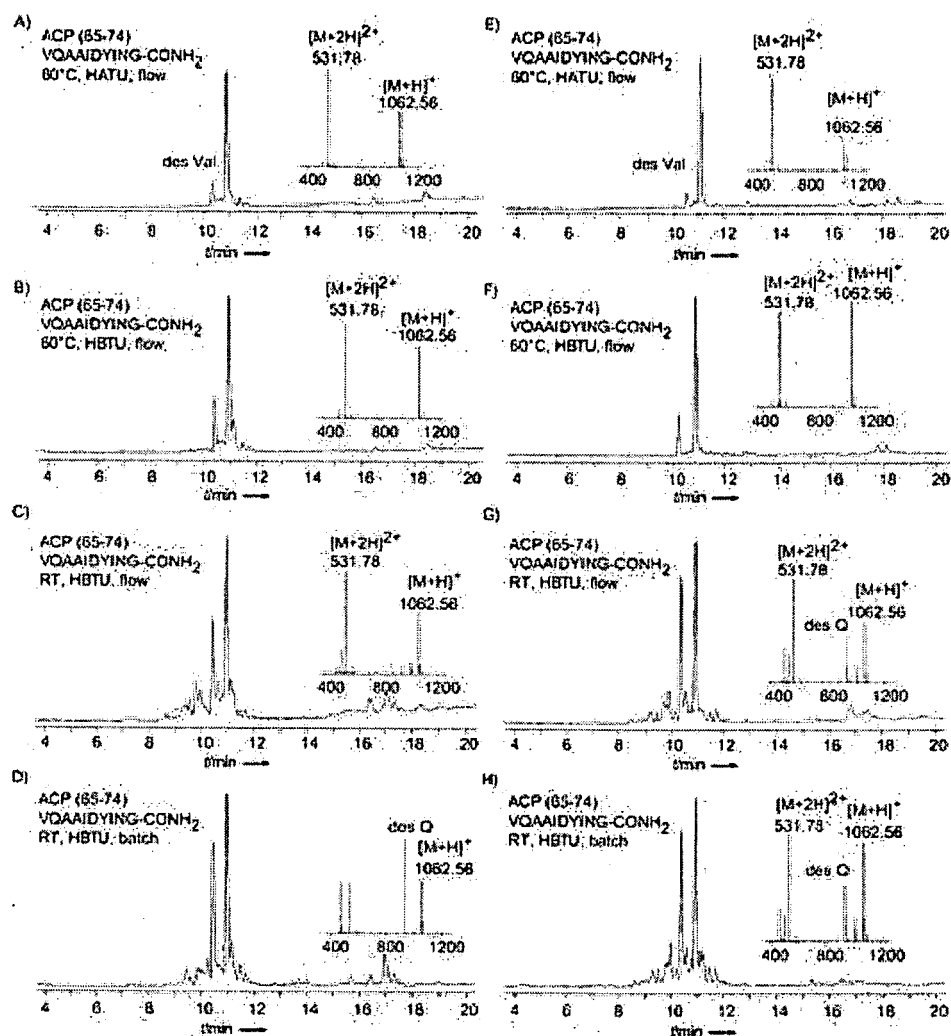
**FIG. 12**

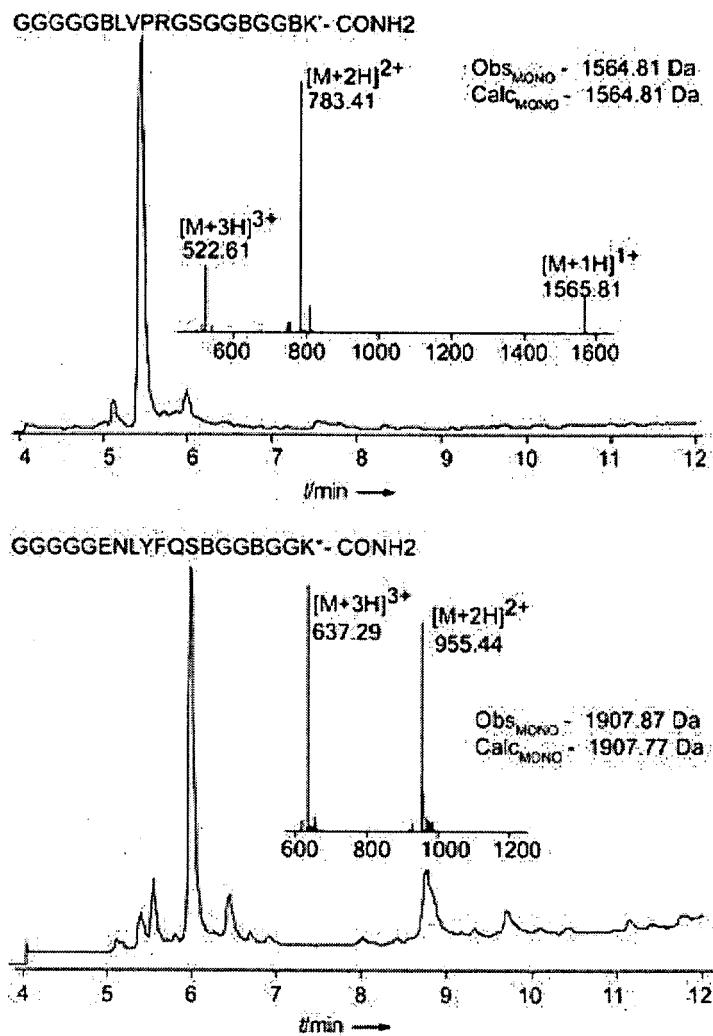
**FIG. 13**

ALFALFA-CONHNH₂
Produced in 6 minutes

**FIG. 14**

**FIG. 15**

**FIG. 16**

**FIG. 17**

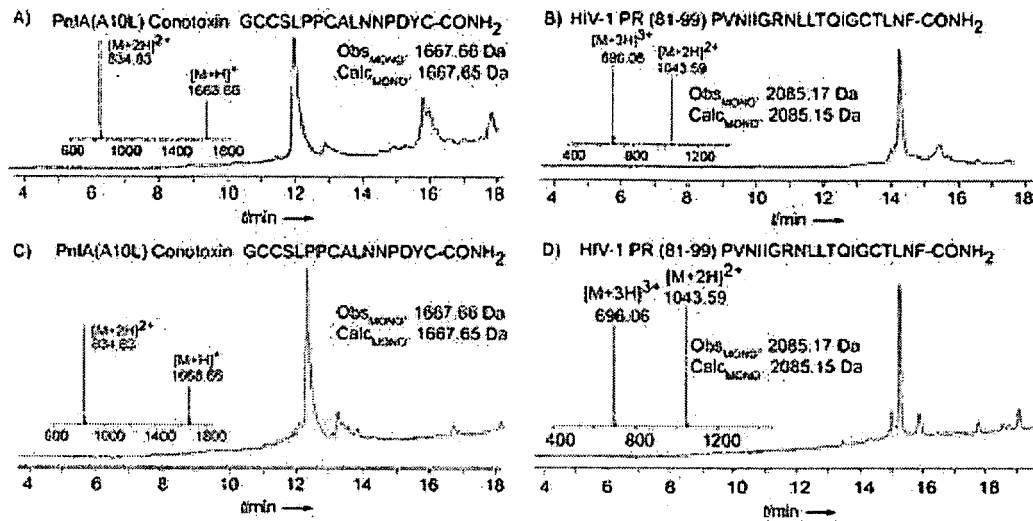


FIG. 18

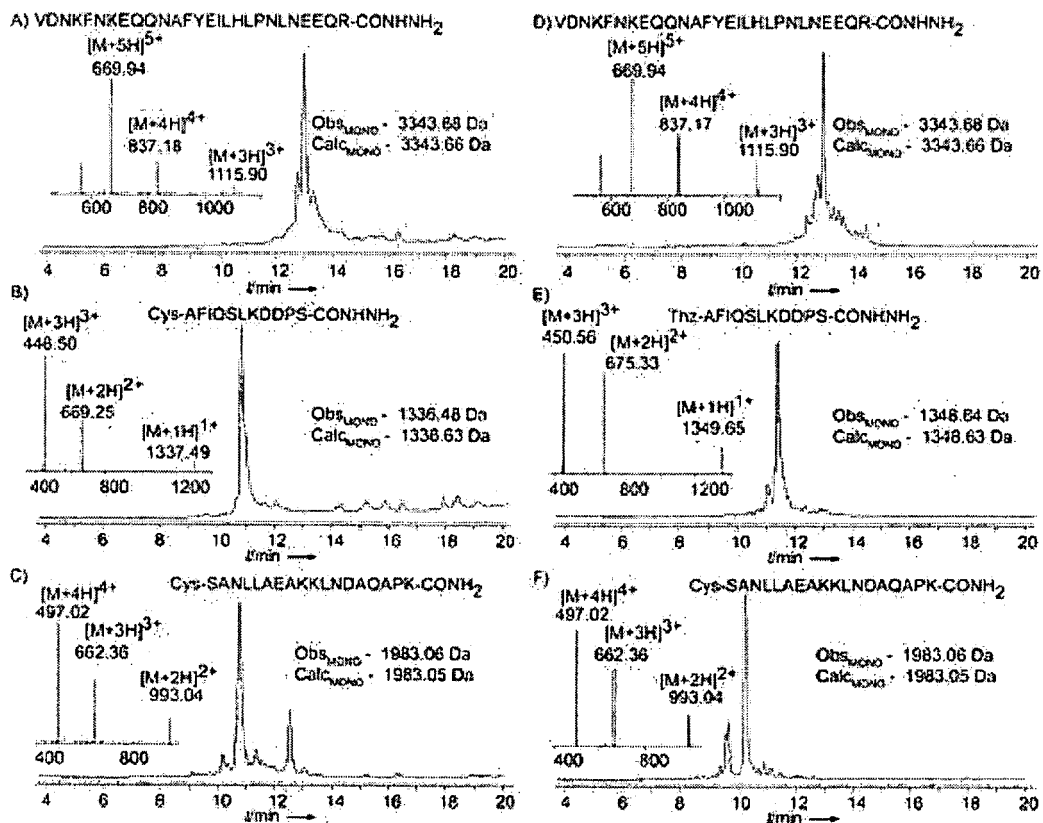
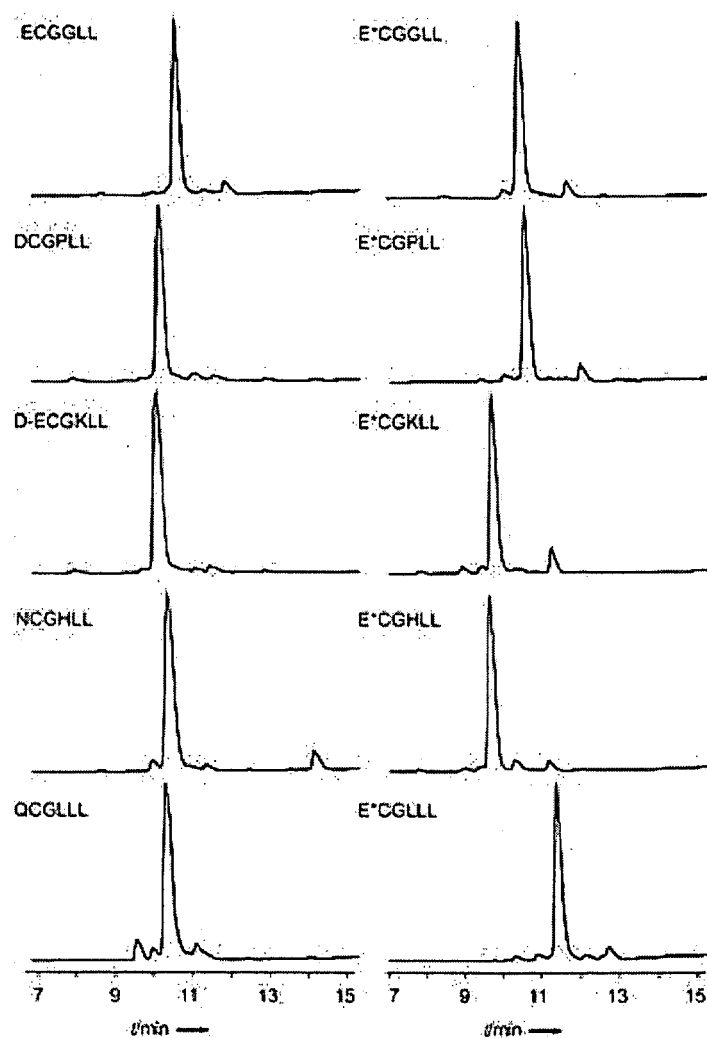


FIG. 19

**FIG. 20**

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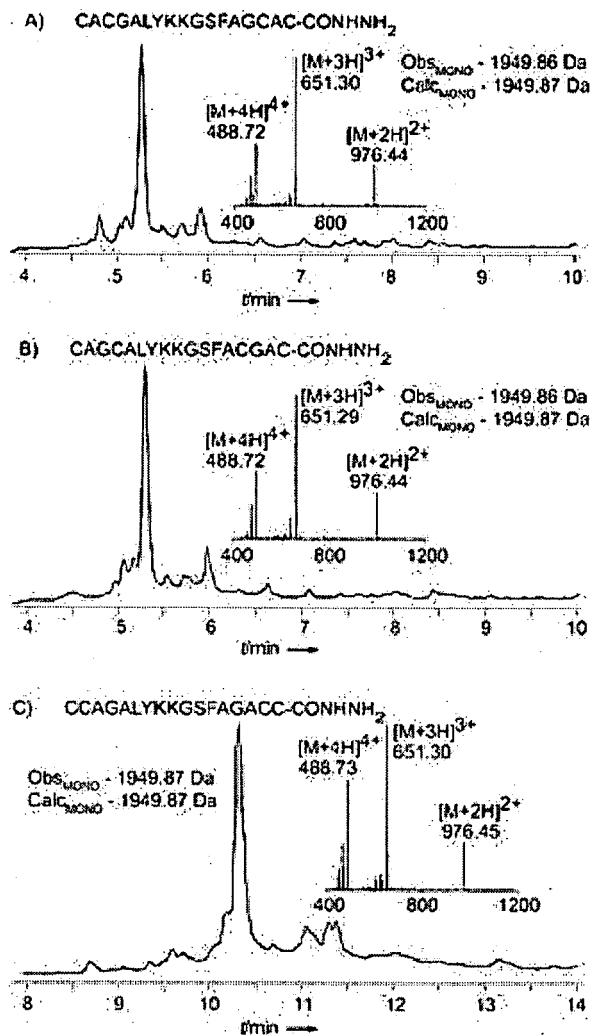


FIG. 21



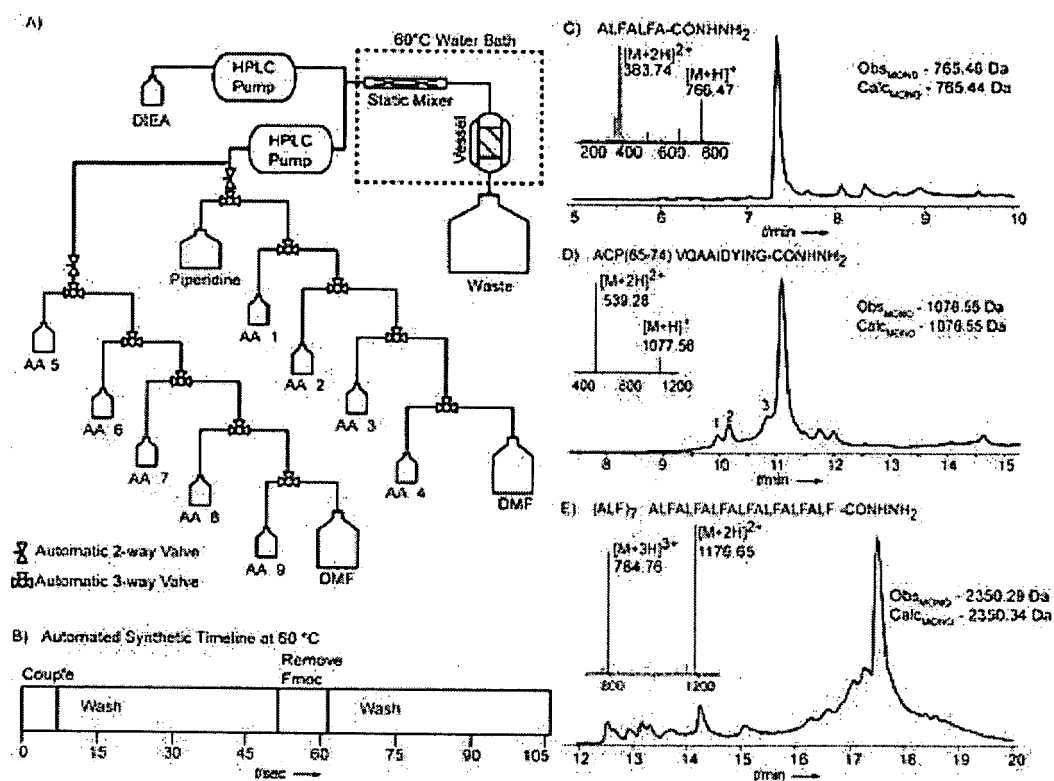


FIG. 23

H₂N-CDINYTSGFRNSDRILYSSDWLIYKTTDHYQTFTKIR-CONH₂

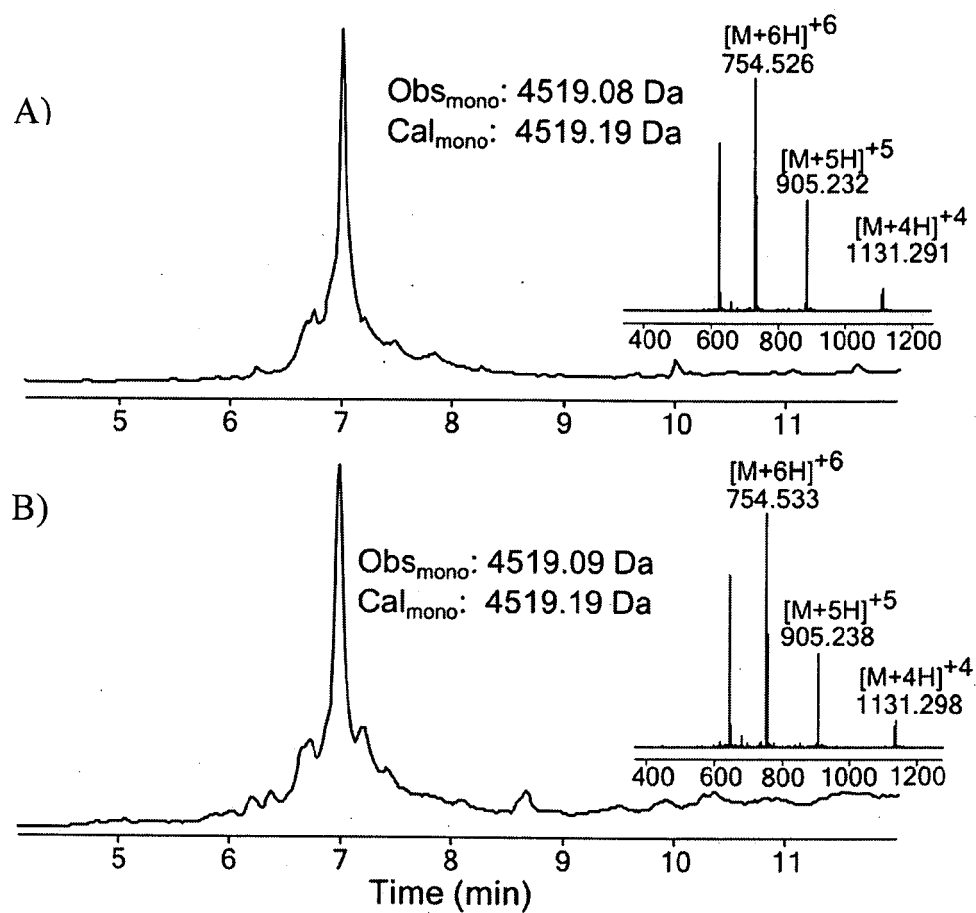
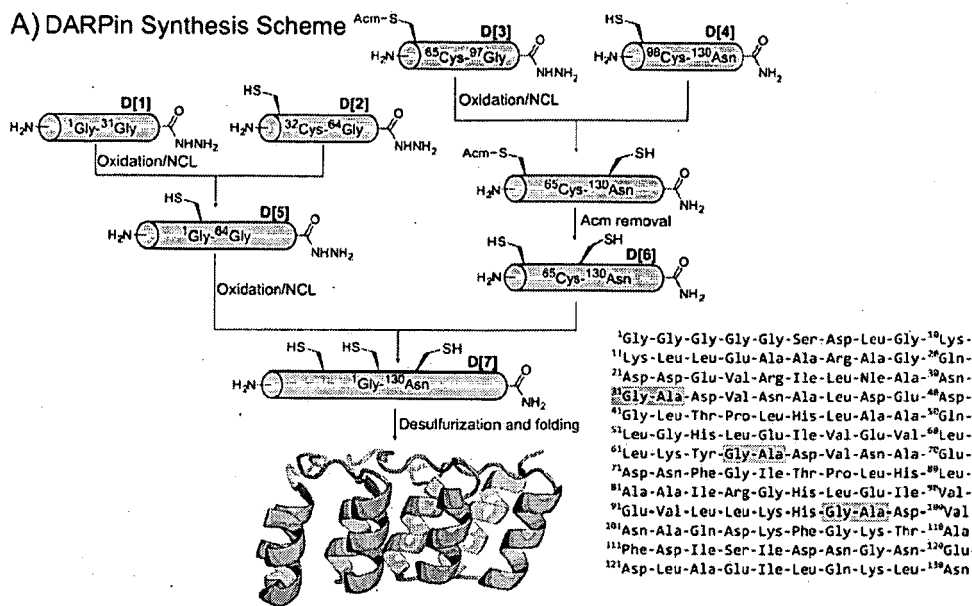
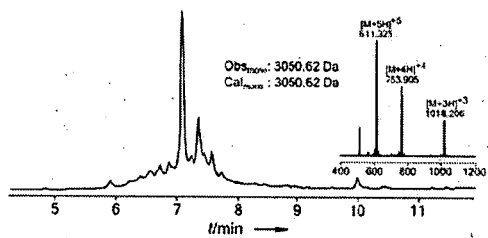
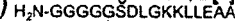


FIG. 24

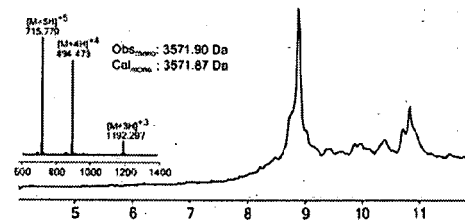
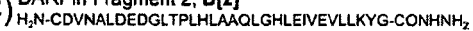
A) DARPin Synthesis Scheme



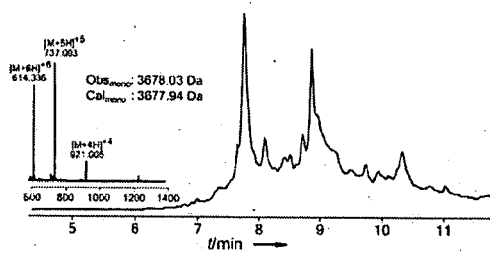
B) DARPin Fragment 1, D[1]



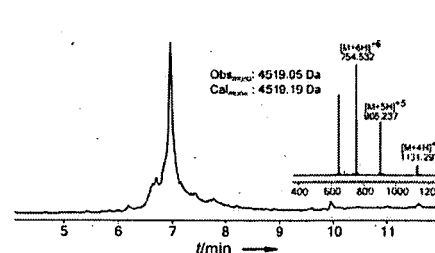
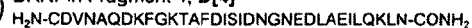
C) DARPin Fragment 2, D[2]



D) DARPin Fragment 3, D[3]



E) DARPin Fragment 4, D[4]



F) DARPin pE59, [D8]

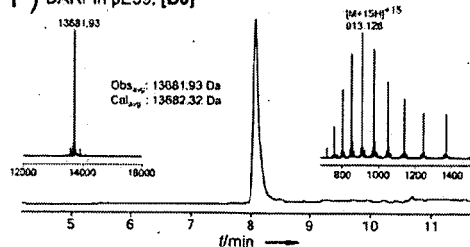


FIG. 25

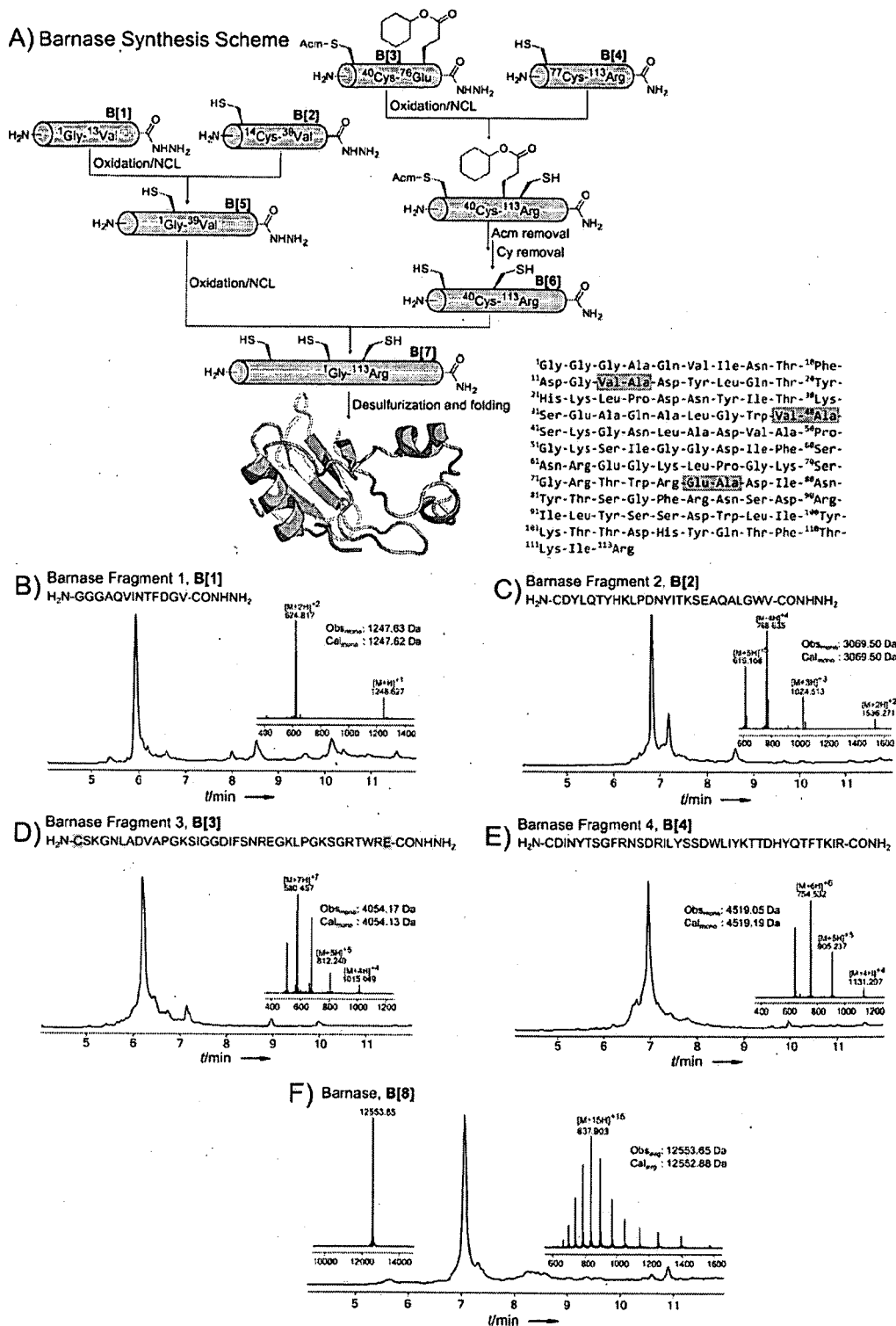
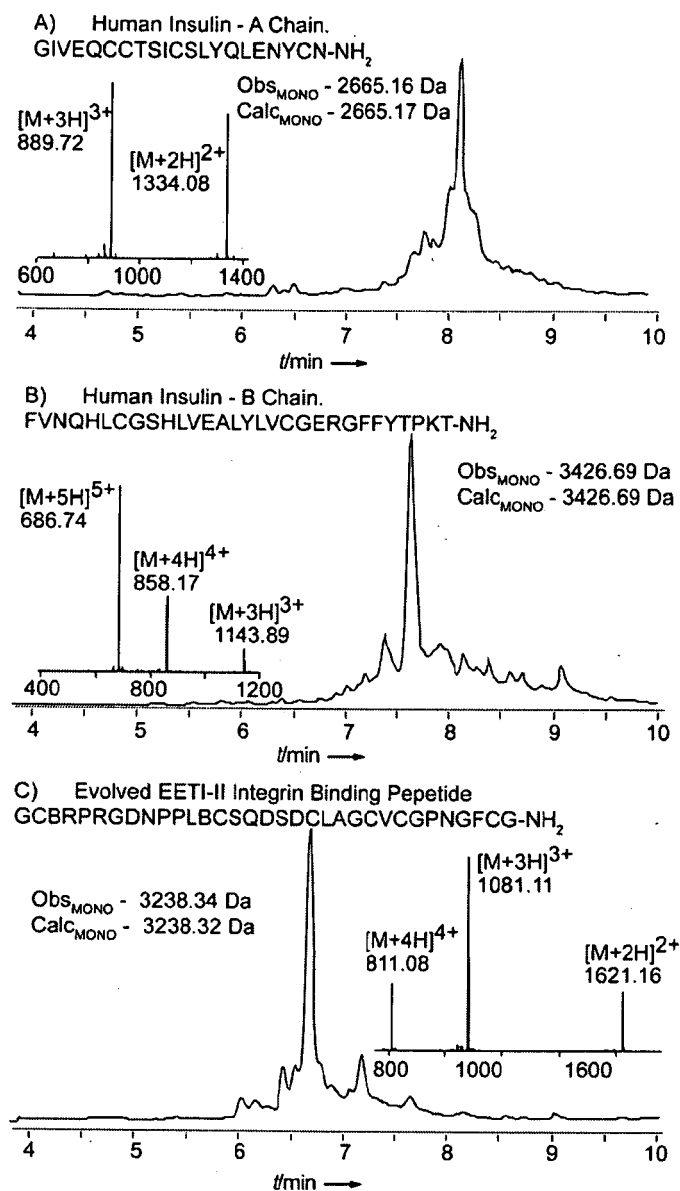


FIG. 26

**FIG. 27**