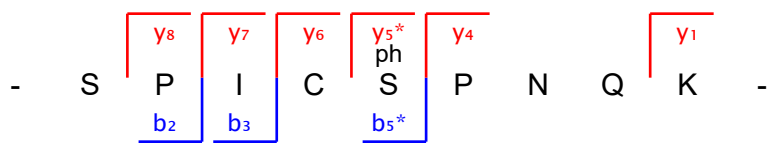
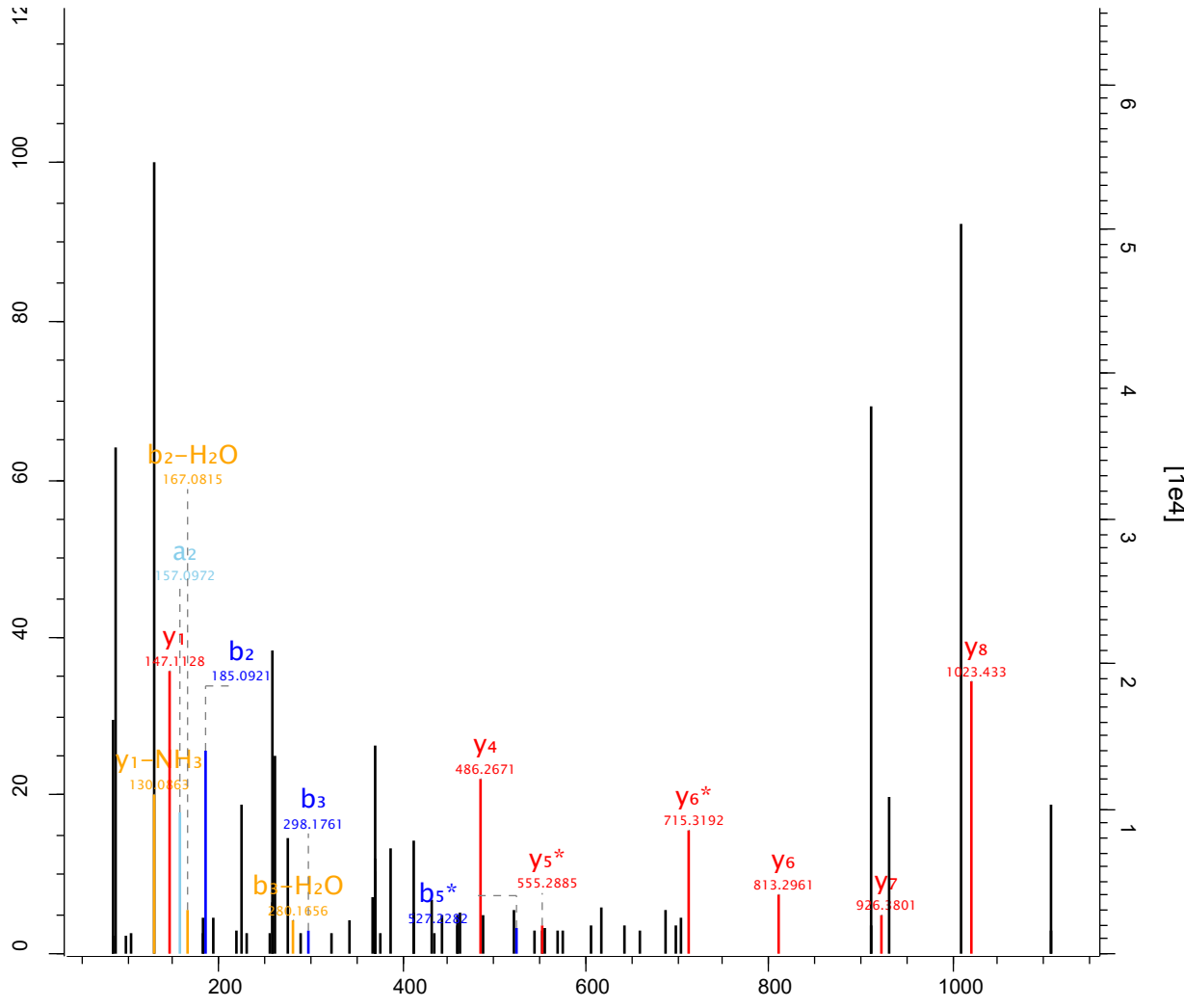
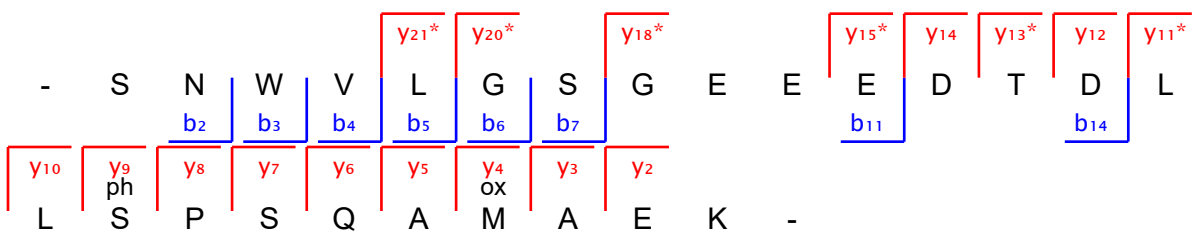
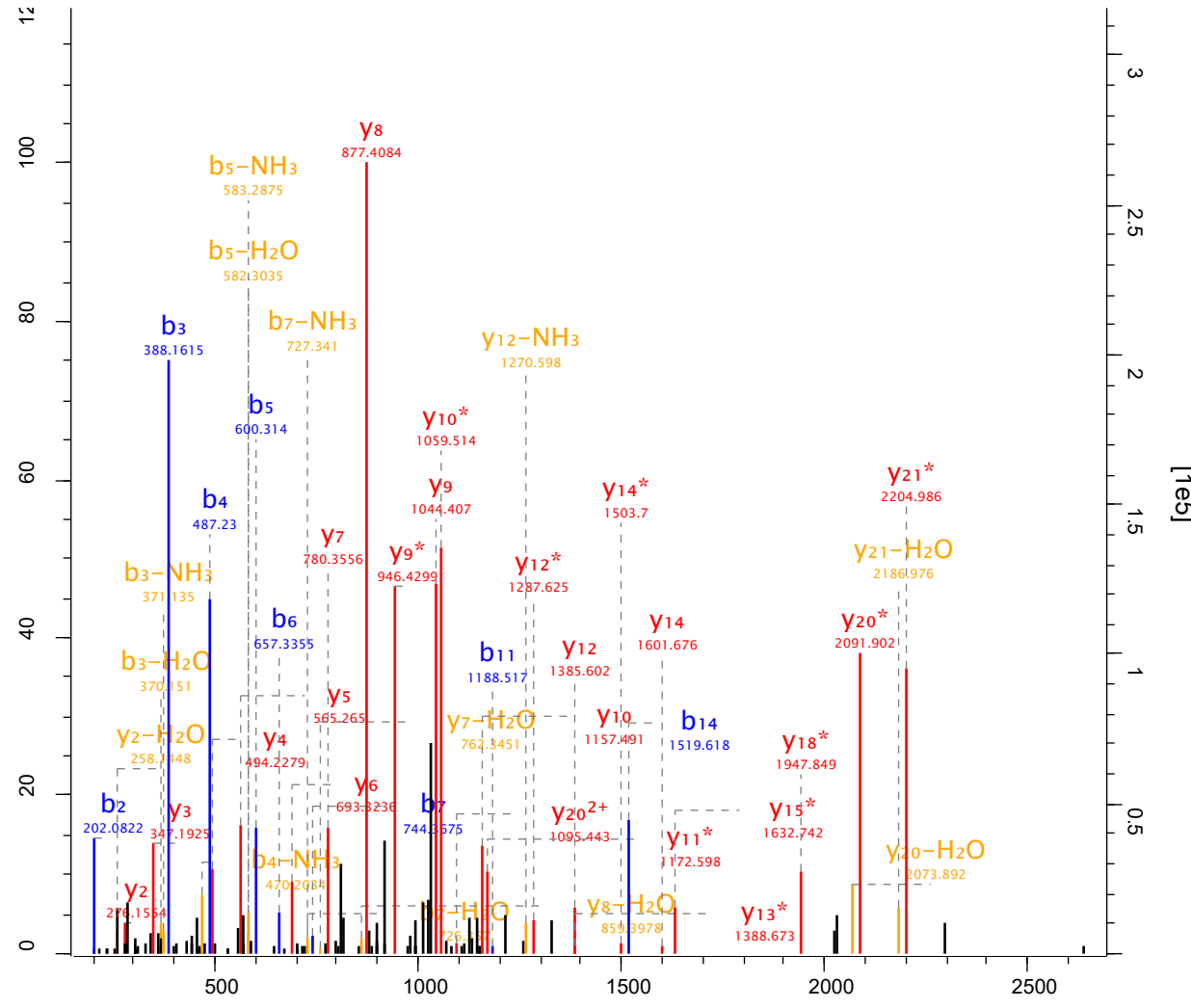


Supplementary Figure 2: Representative annotated spectra of identified phosphopeptides under systemin,A17 and water treatment as exported from MaxQuant.

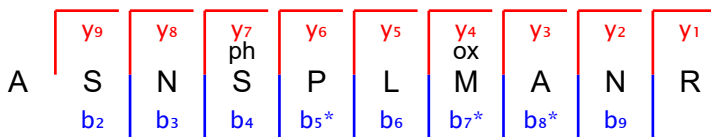
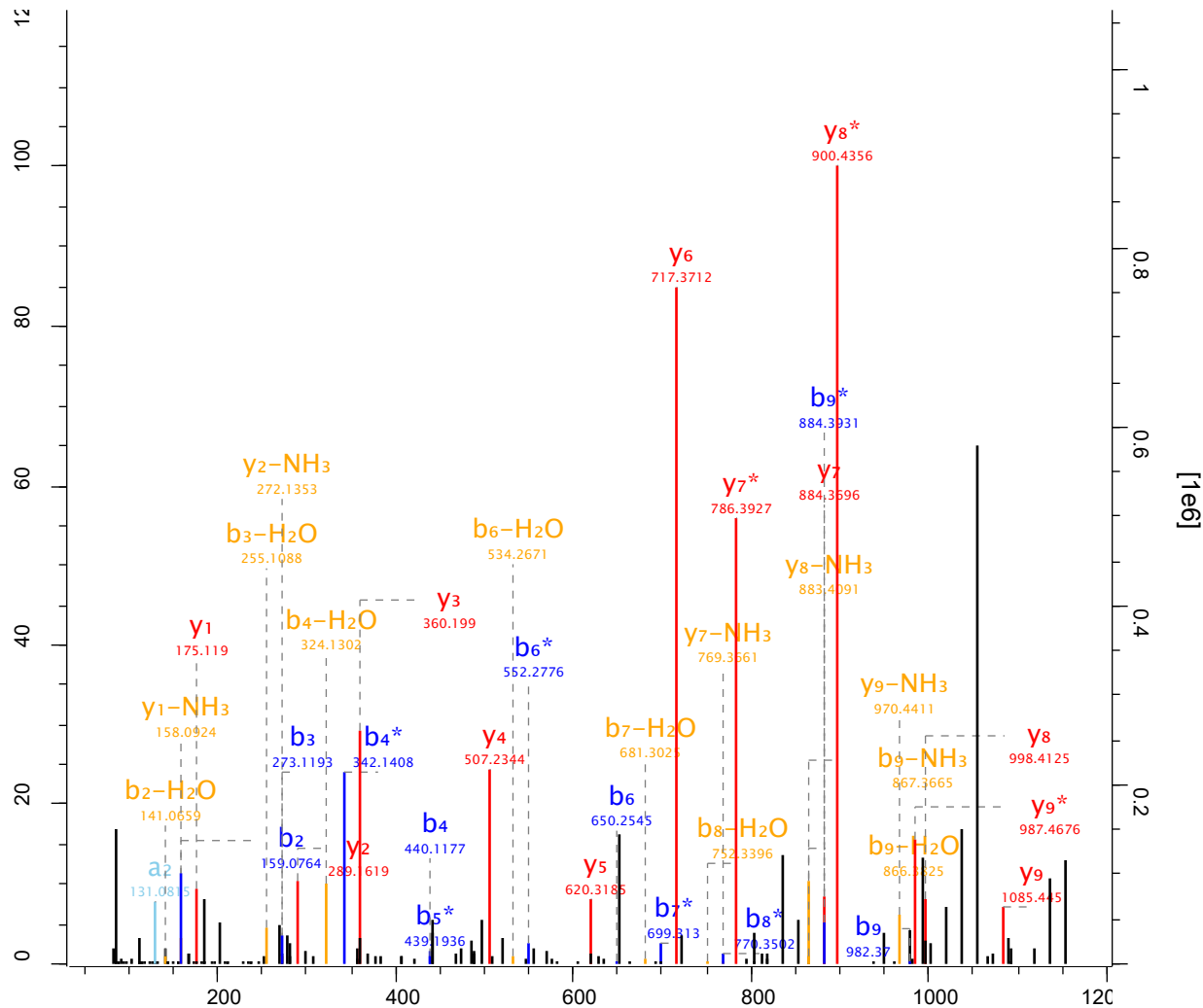
Raw file Scan Method Score m/z
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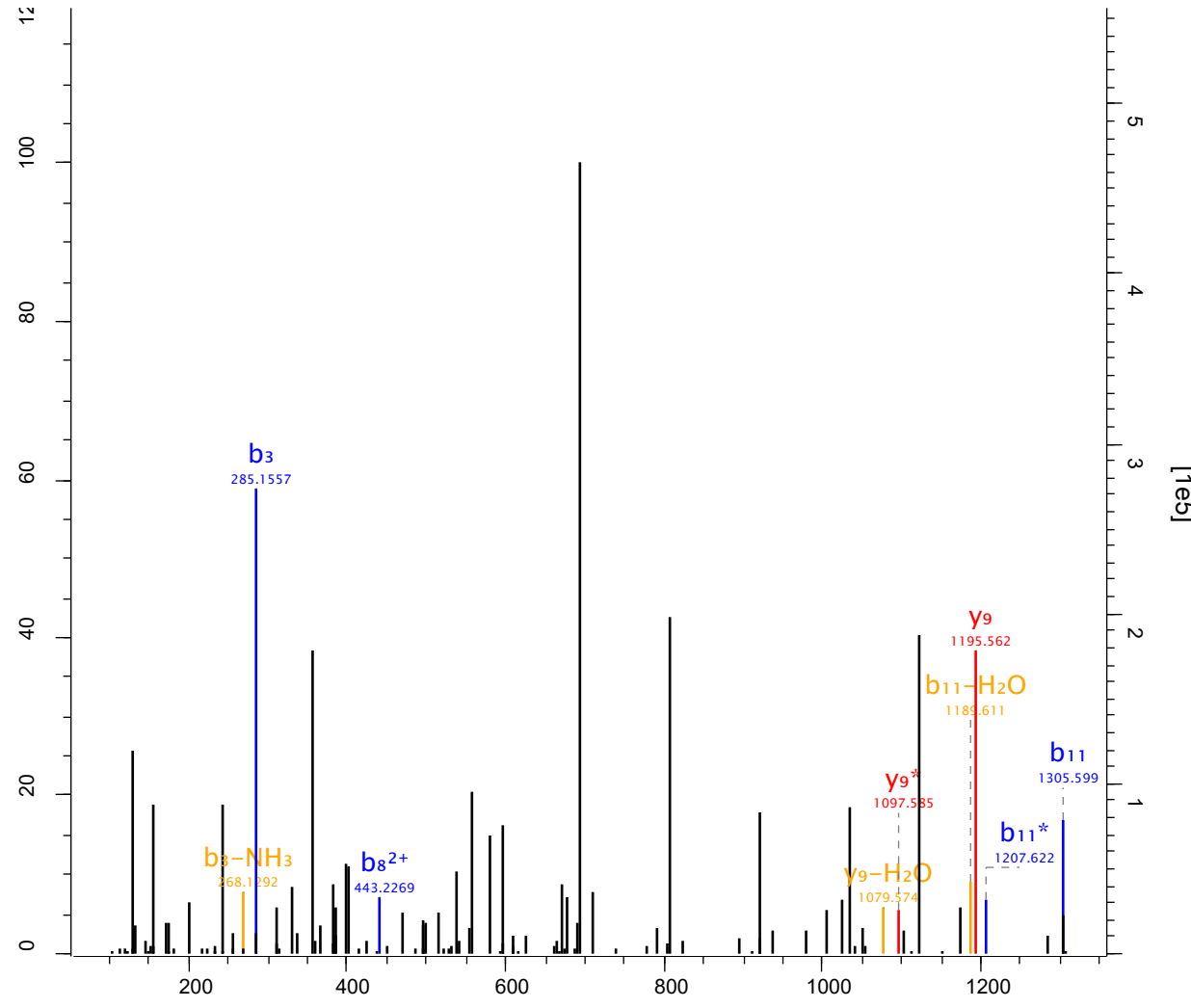
Raw file Scan Method Score m/z
 sys_15_1 40251 FTMS; HCD 162.87 930.74



Raw file Scan Method Score m/z
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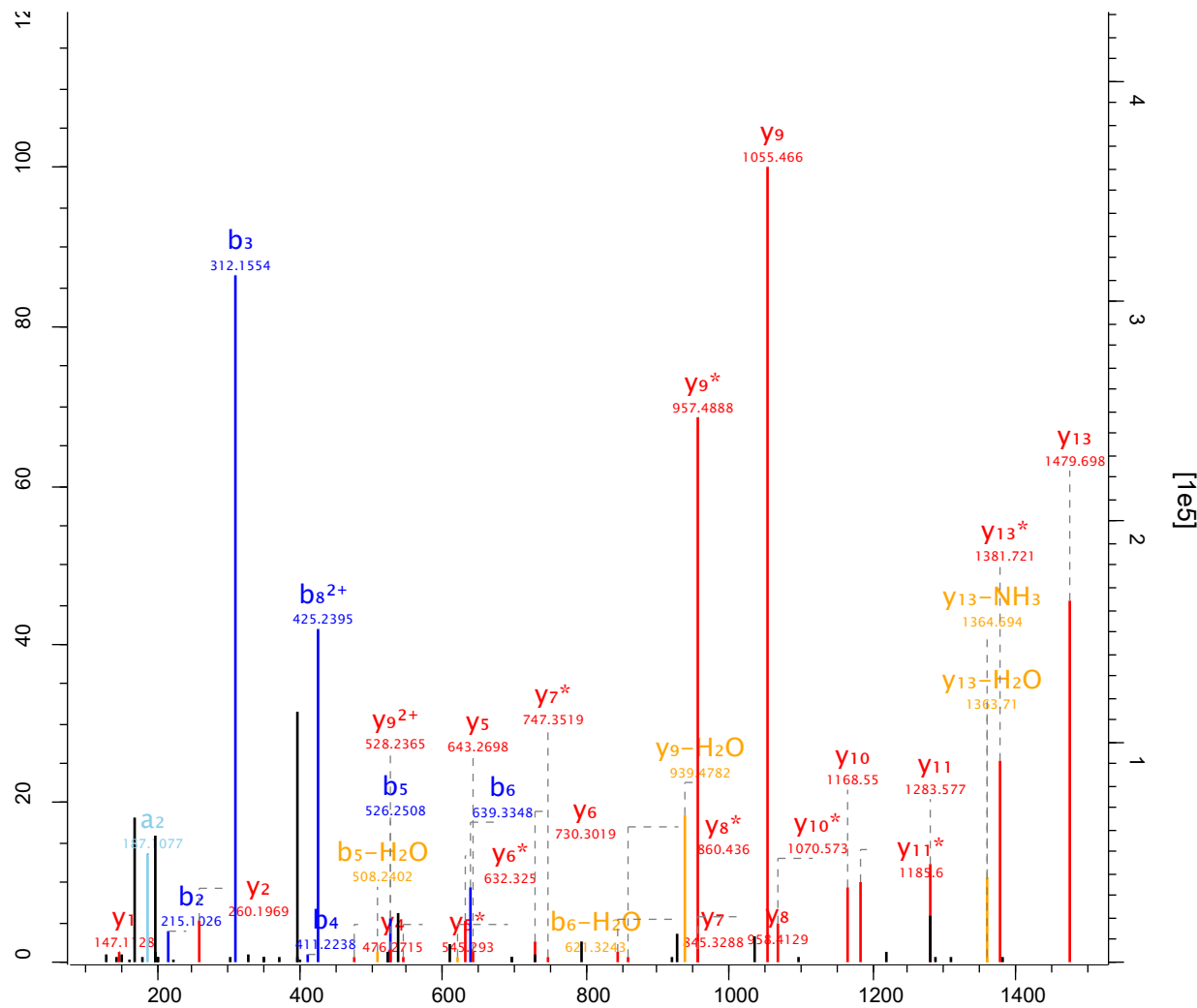


Raw file Scan Method Score m/z
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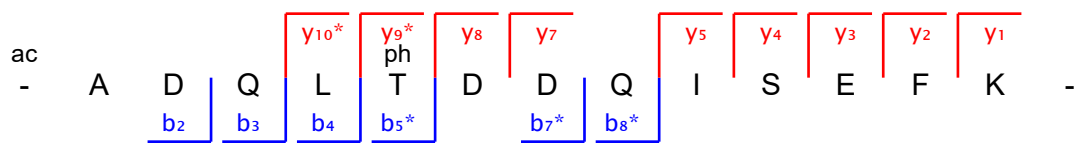
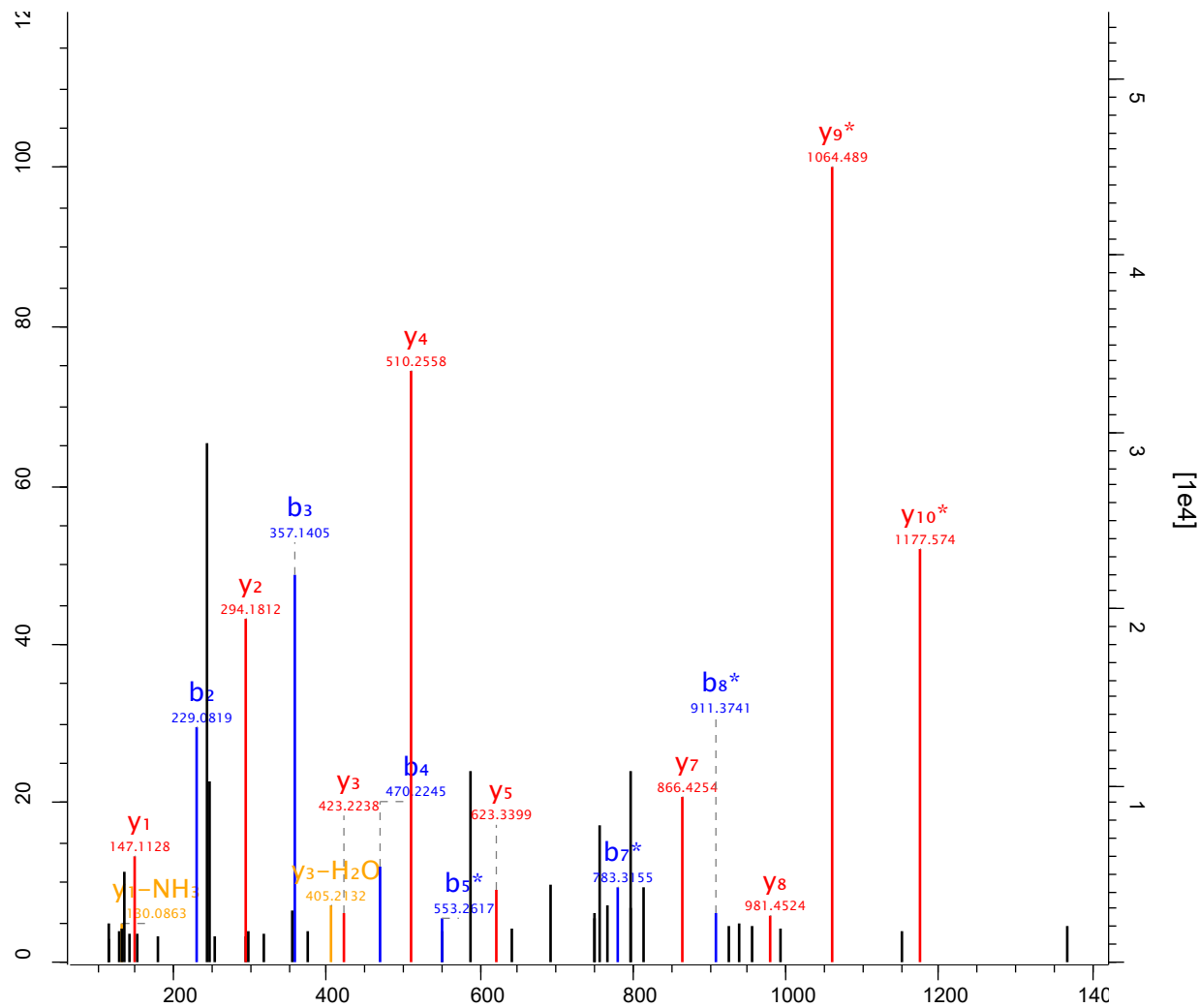
- N G L F N E P I R P S R -
 (ph above S)
 b₃ (under L), y₉ (above F), b₈²⁺ (under I), b₁₁ (under S)

Raw file Scan Method Score m/z
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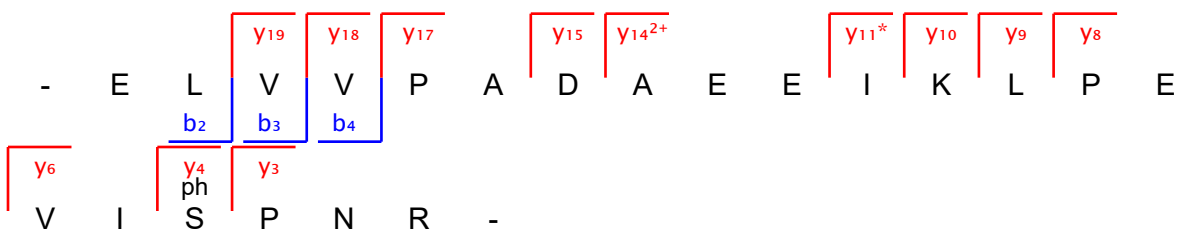
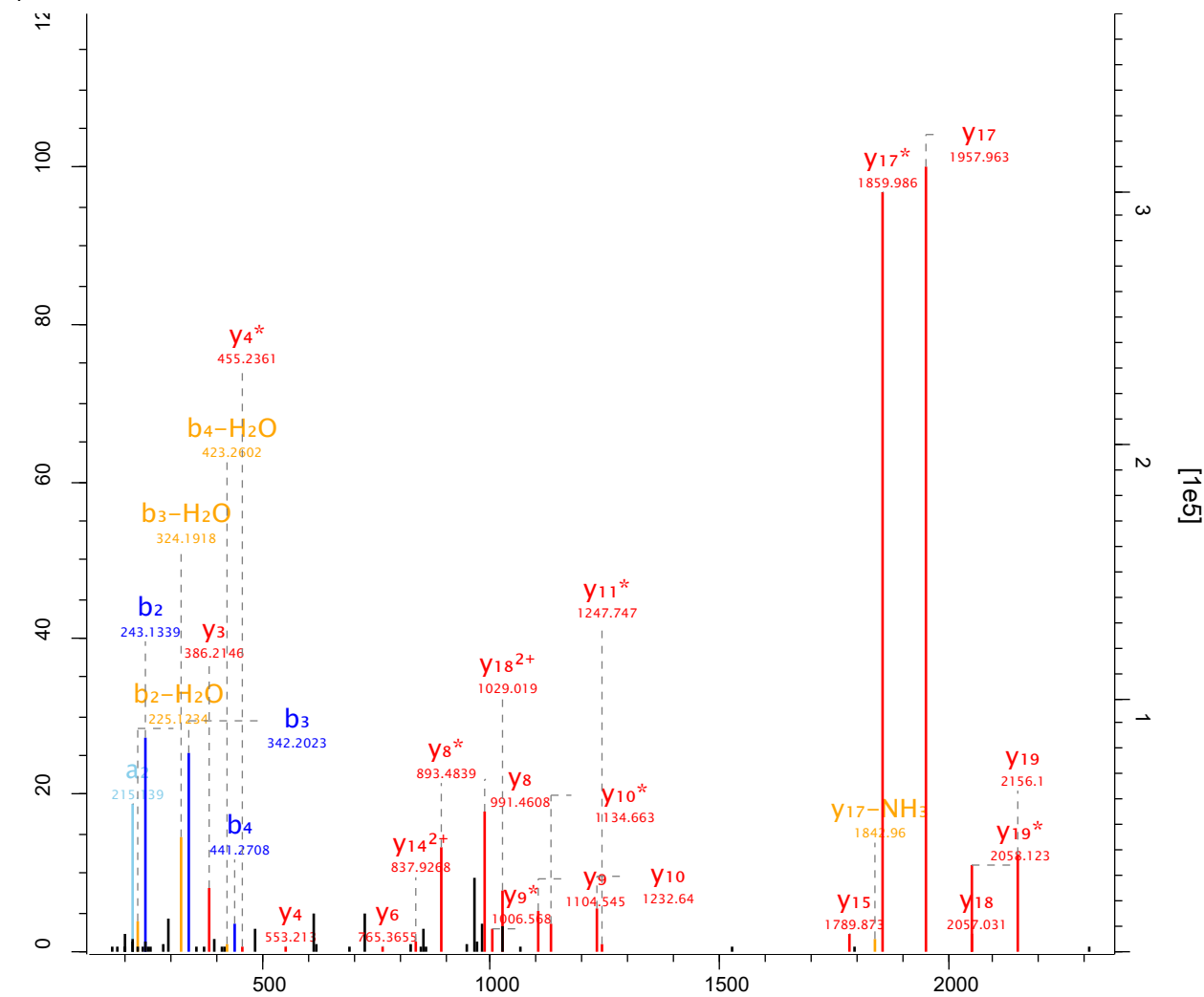


- D V P V D I P L D S S ph S T D L K
 b₂ b₃ b₄ b₅ b₆ b₈²⁺ y₁₃ y₁₁ y₁₀ y₉ y₈ y₇ y₆ y₅ y₄ y₂ y₁

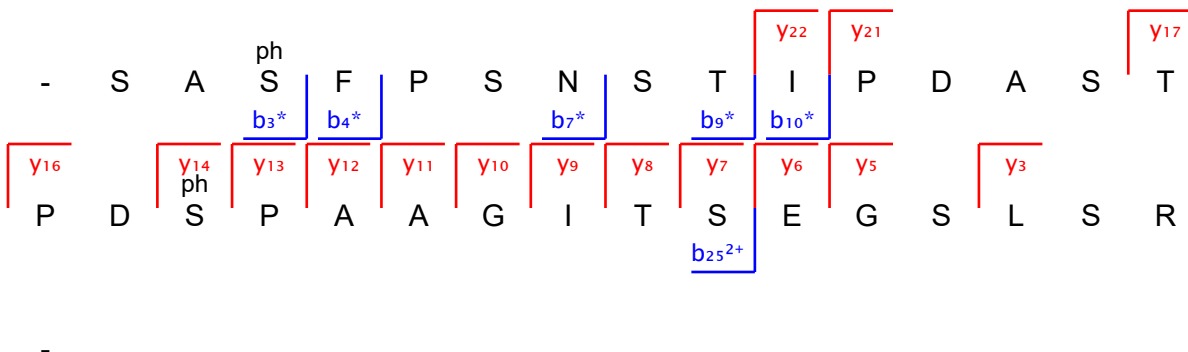
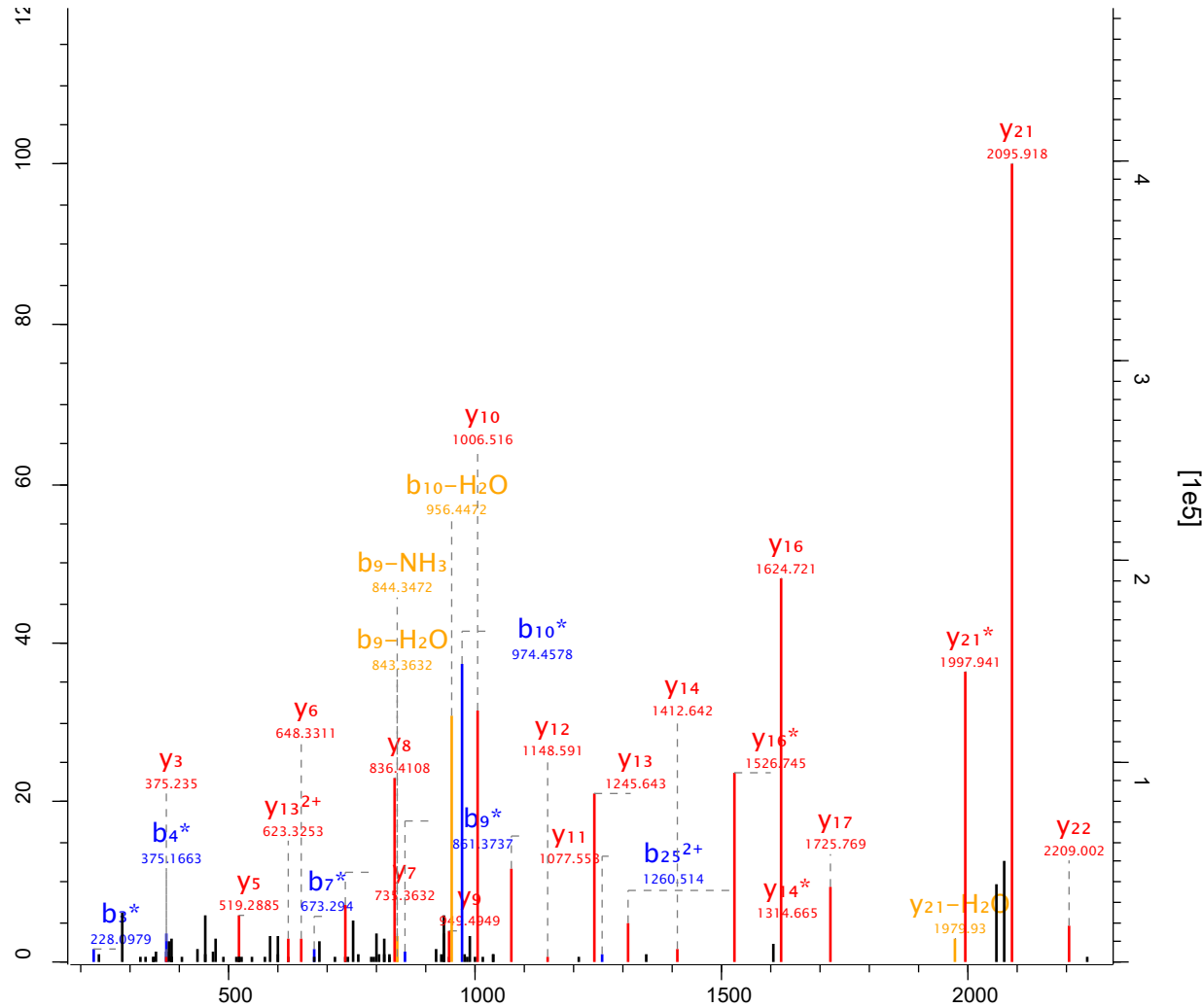
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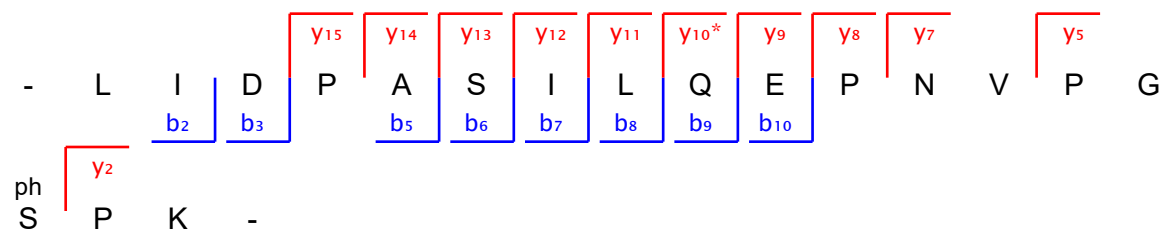
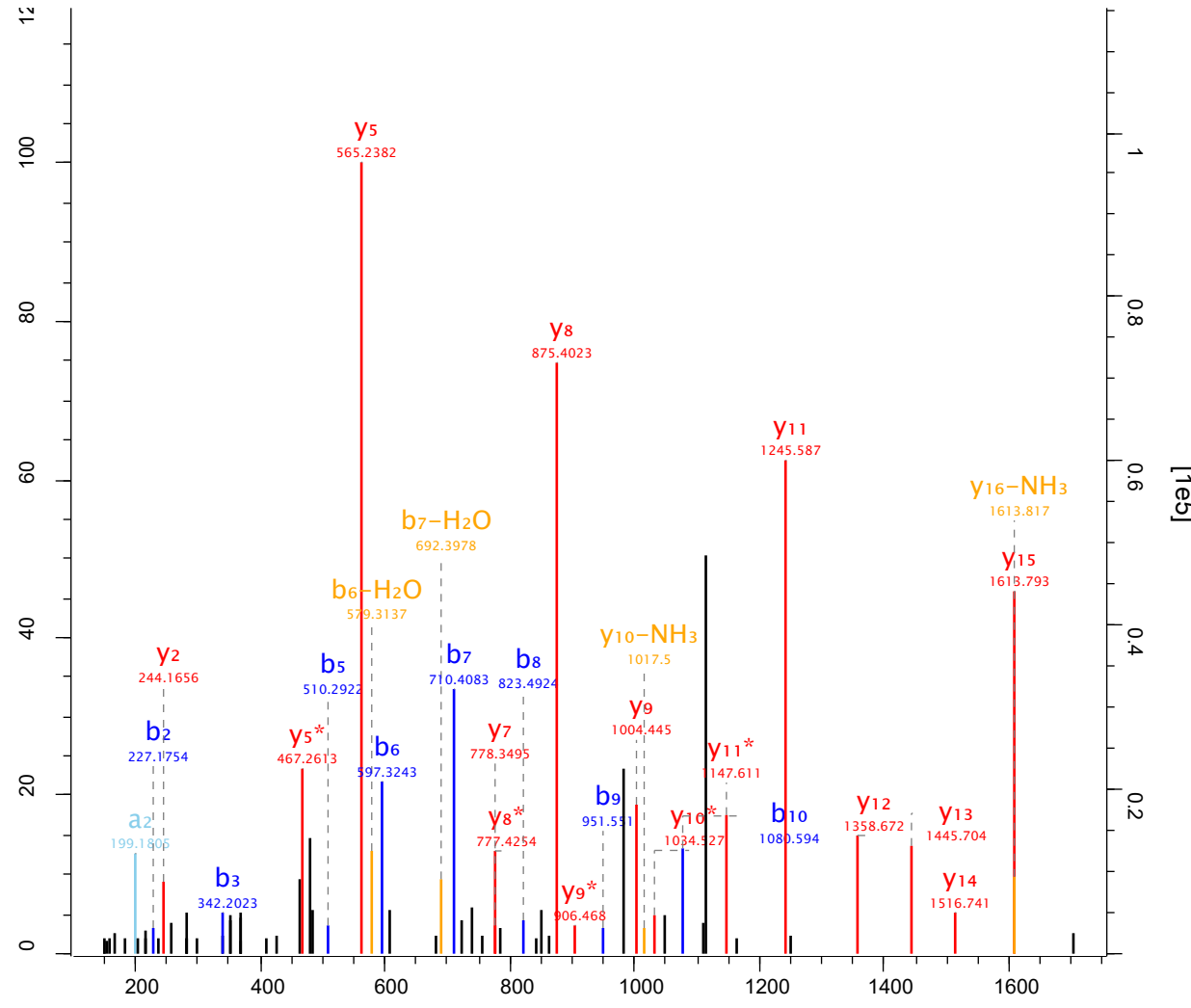
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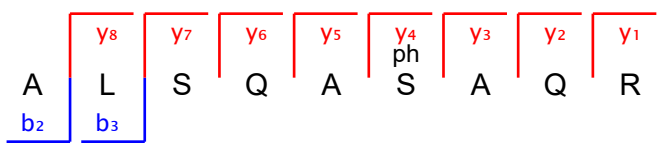
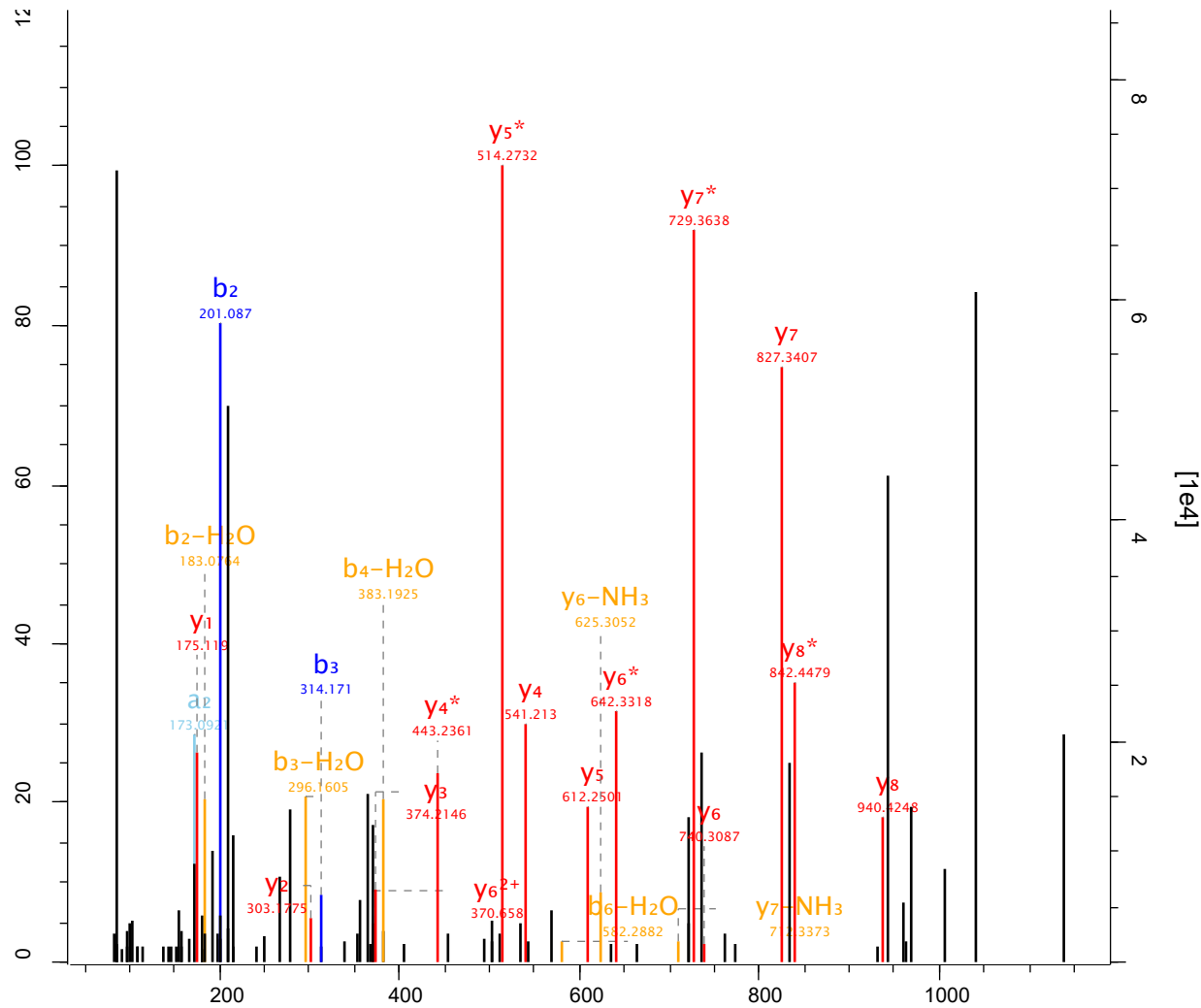
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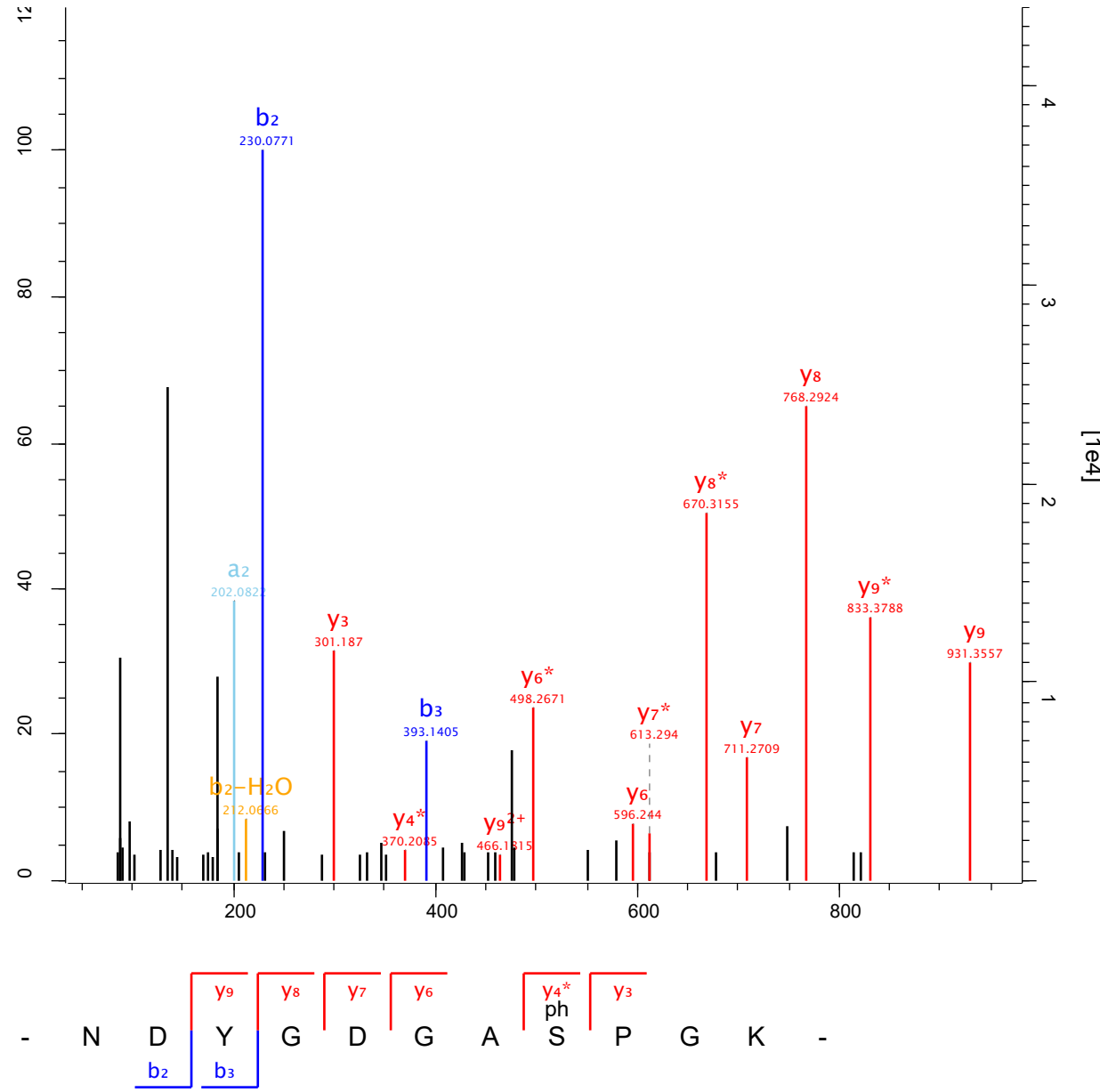
Raw file Scan Method Score m/z
 sys_15_1 41892 FTMS; HCD 107.21 978



Raw file Scan Method Score m/z
 sys_15_1 4205 FTMS; HCD 102.73 570.76



Raw file Scan Method Score m/z
 sys_15_1 4227 FTMS; HCD 68.04 580.72



N

D

Y

G

D

G

A

S

P

G

K

-

b₂

b₃

y₉

y₈

y₇

y₆

y₄^{*}

y₃

b₂-H₂O
212.0666

b₂
230.0771

a₂
202.0822

y₃
301.187

y₄^{*}
370.2065

b₃
393.1405

y₉²⁺
466.1815

y₆^{*}
498.2671

y₇^{*}
613.294

y₆
596.244

y₈^{*}
670.3155

y₇
711.2709

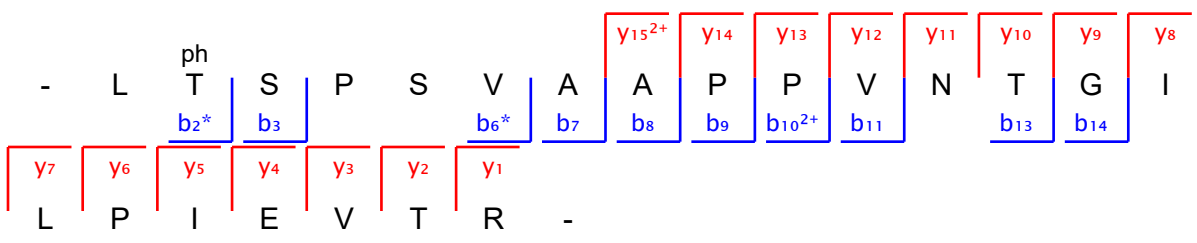
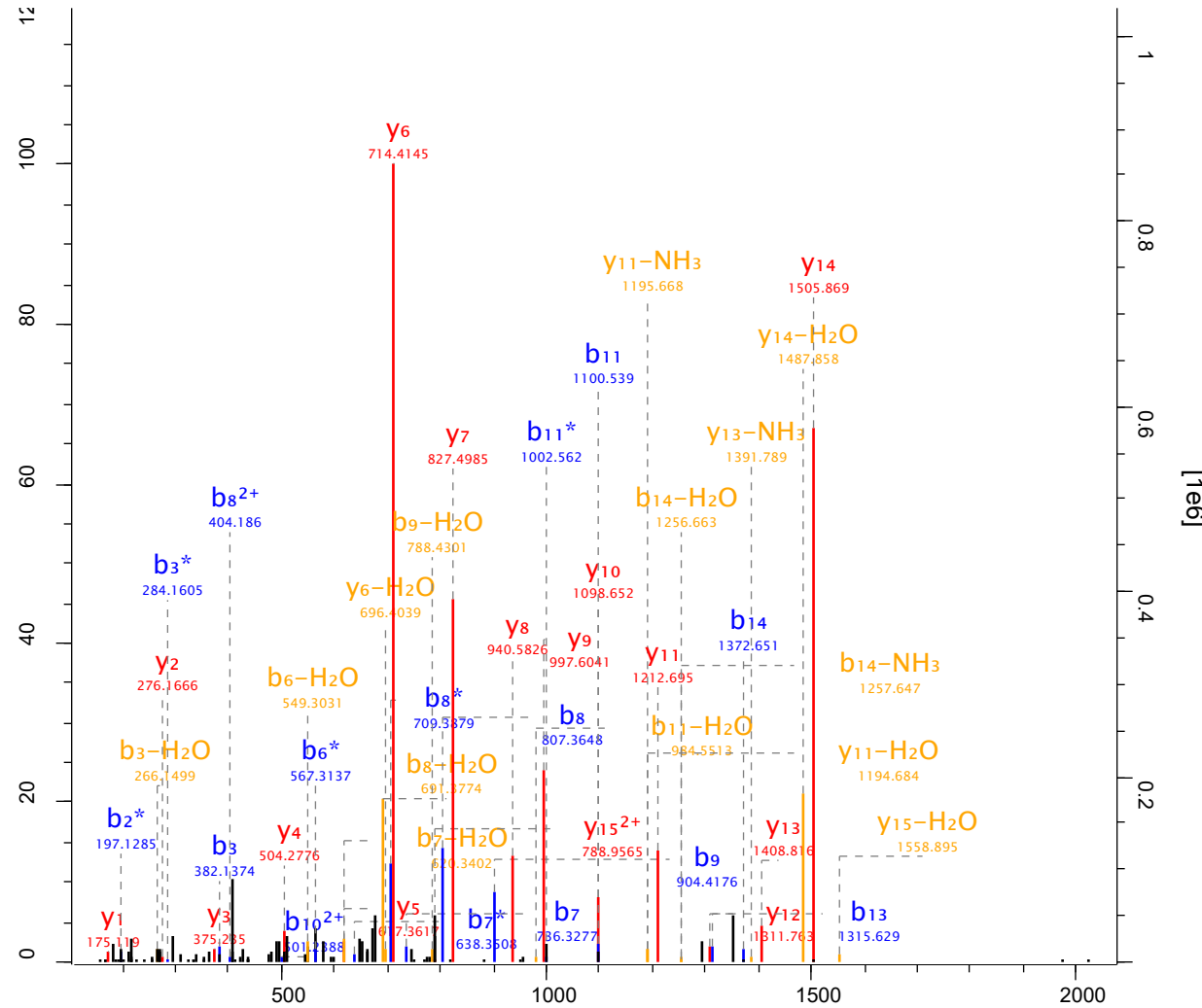
y₈
768.2924

y₉^{*}
833.3788

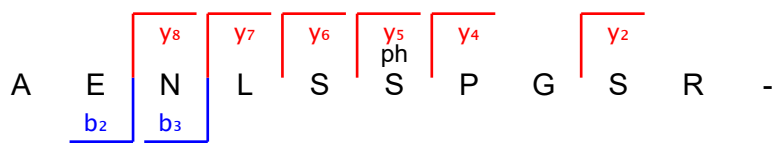
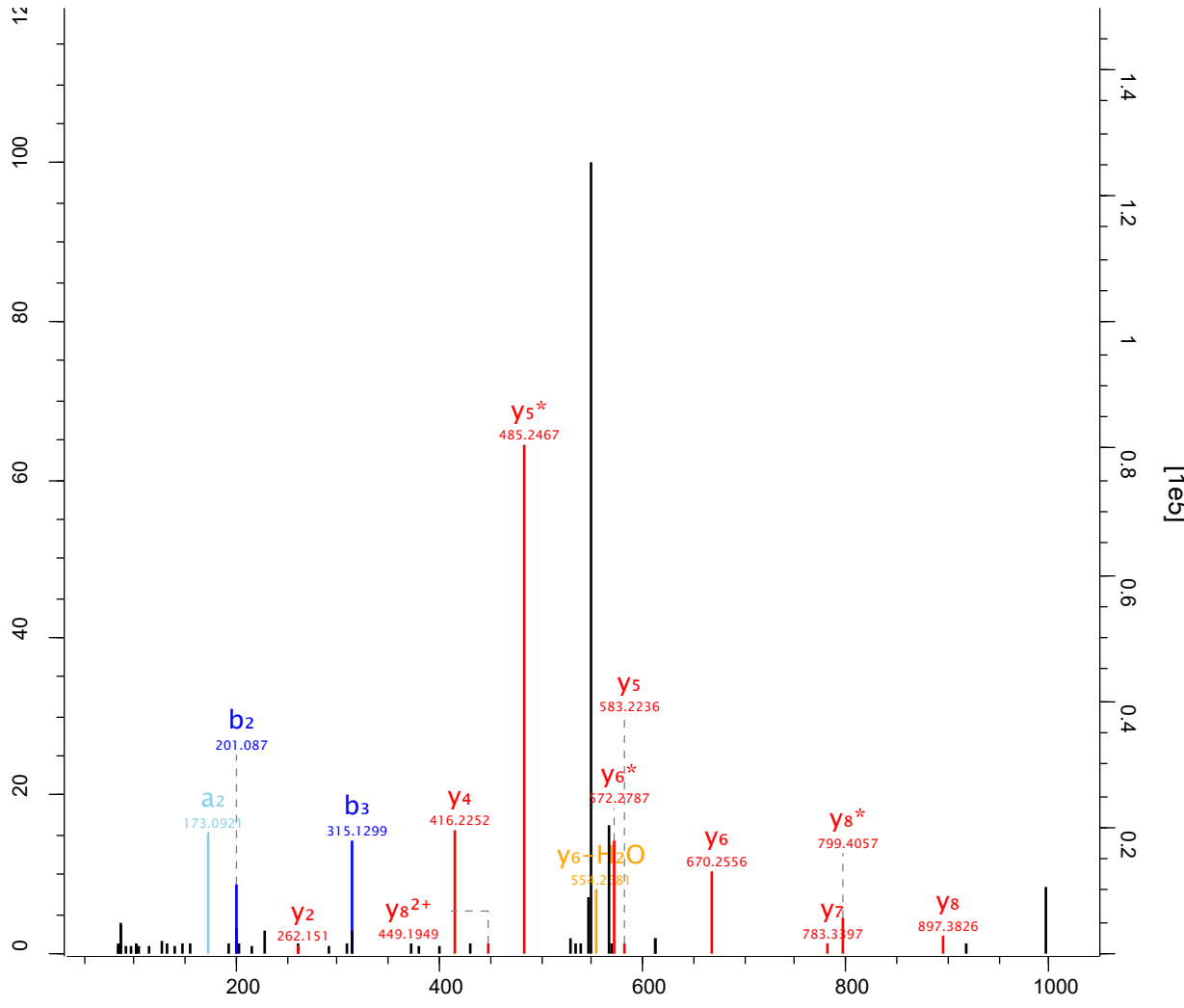
y₉
931.3557

[1e4]

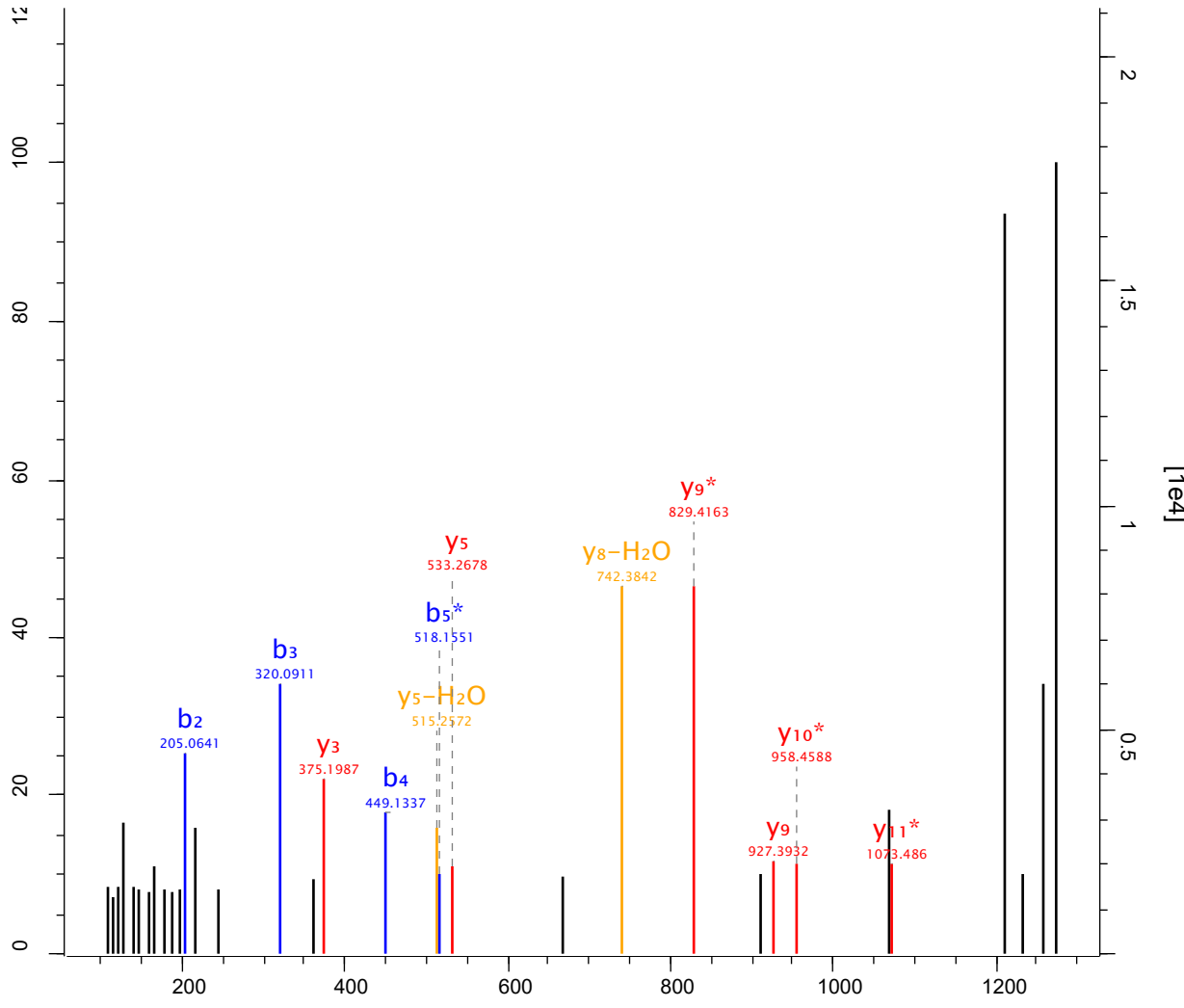
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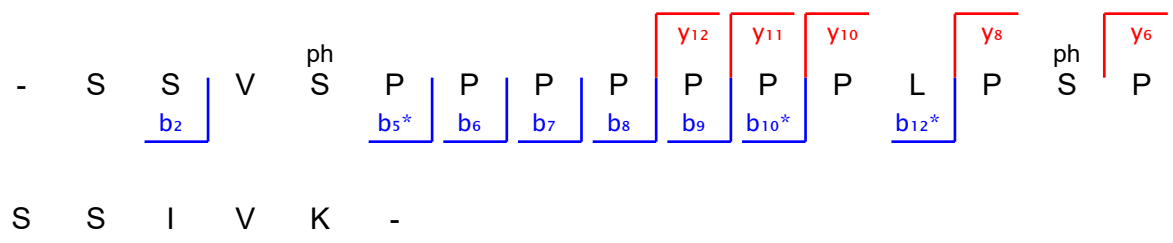
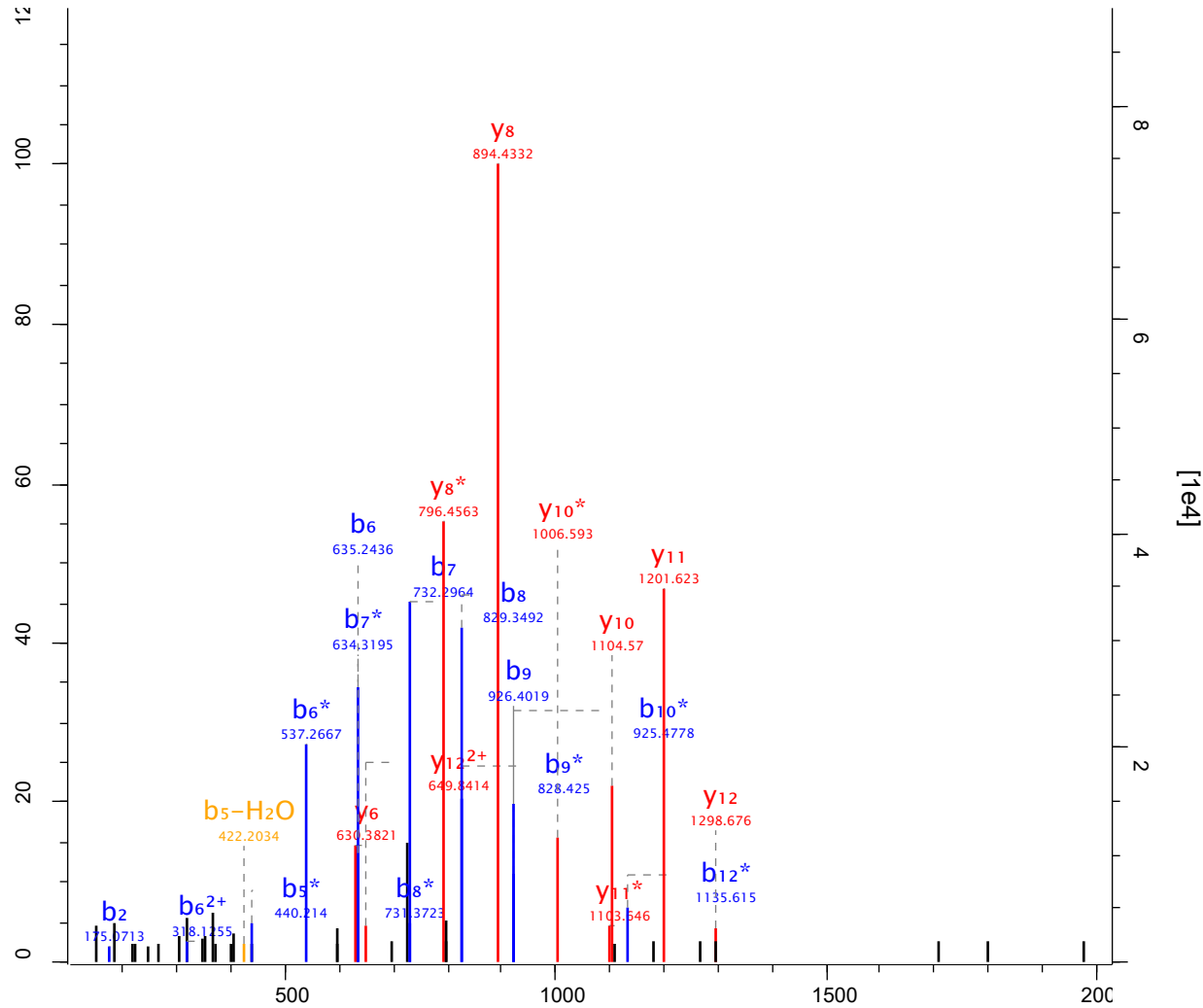
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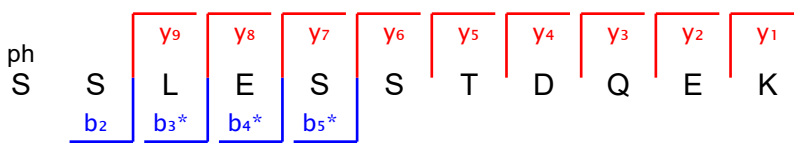
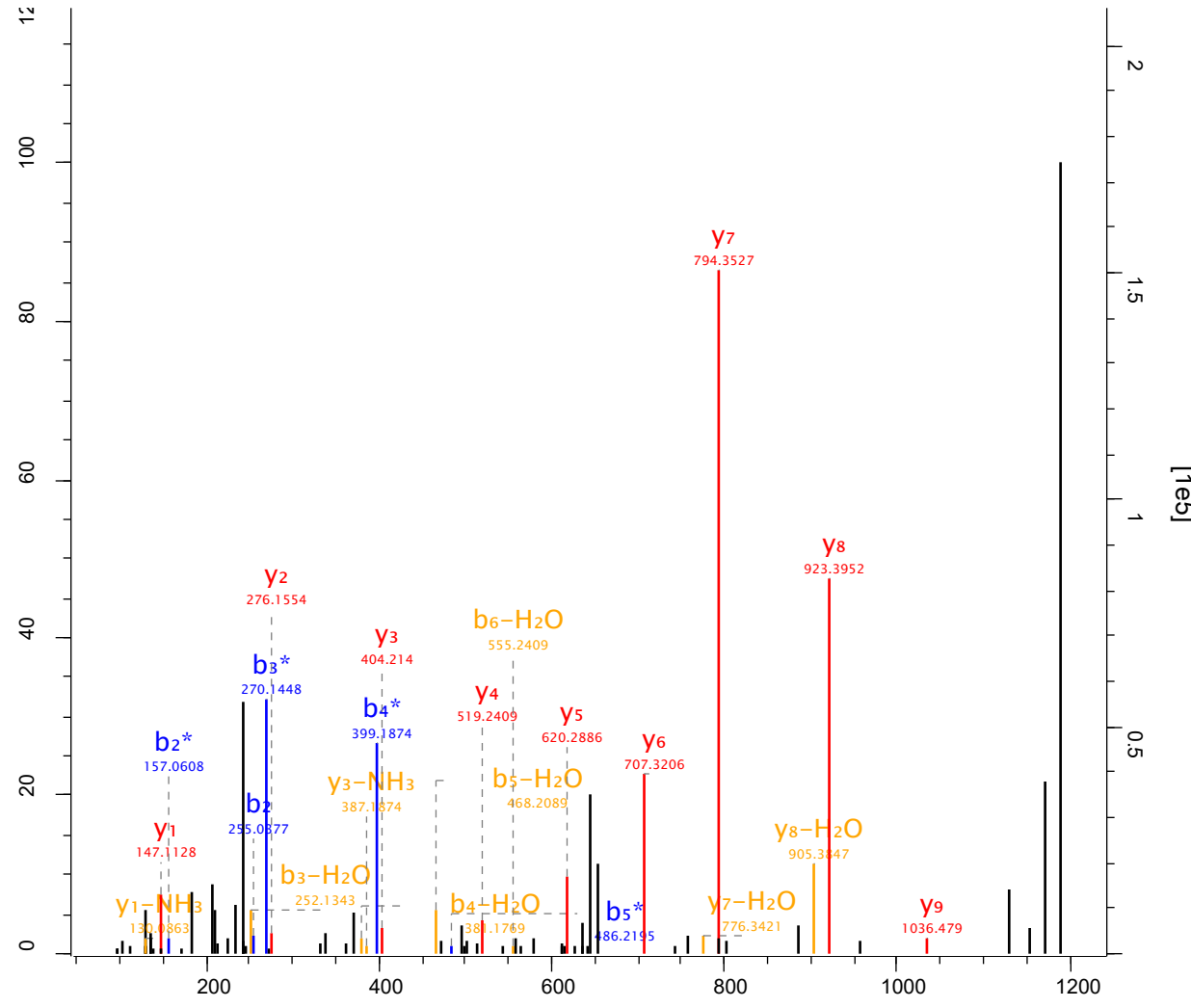
ox
 - M G D E S G G L S A N N K -

b₂
b₃
b₄
b₅^{*}
y₁₁^{*}
y₁₀^{*}
y₉^{ph}
y₅
y₃

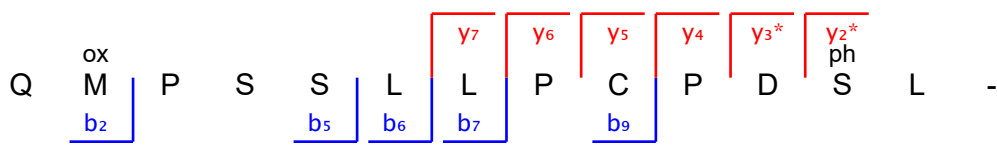
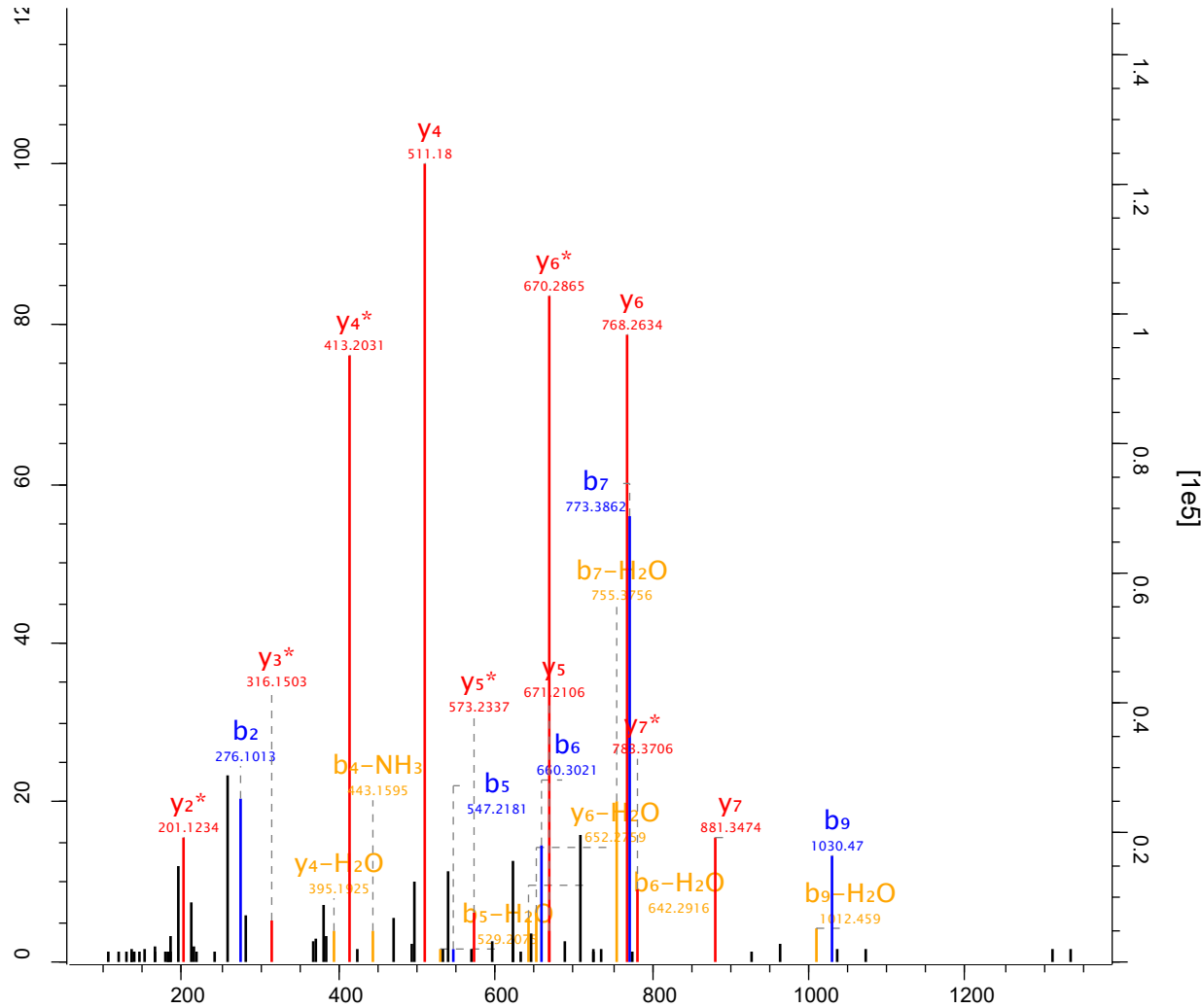
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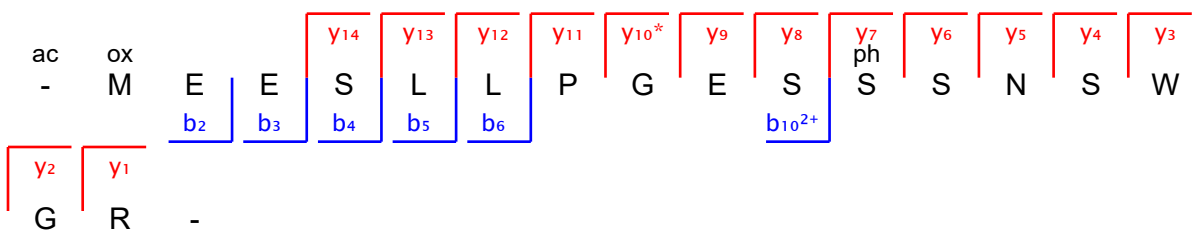
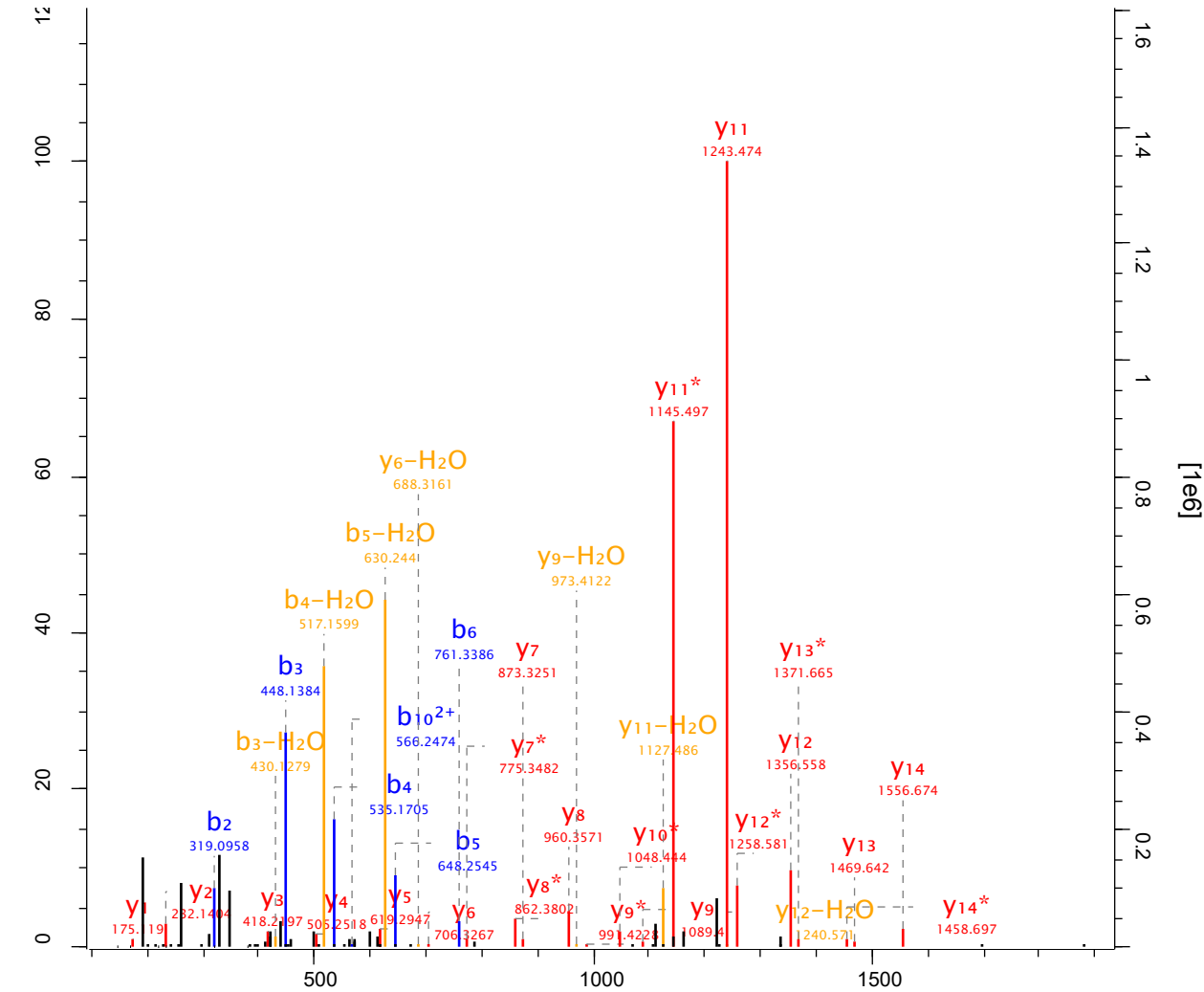
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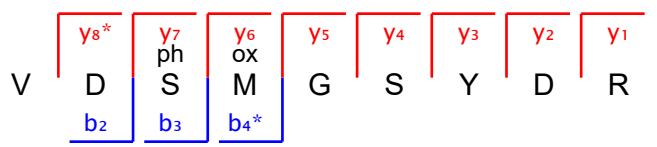
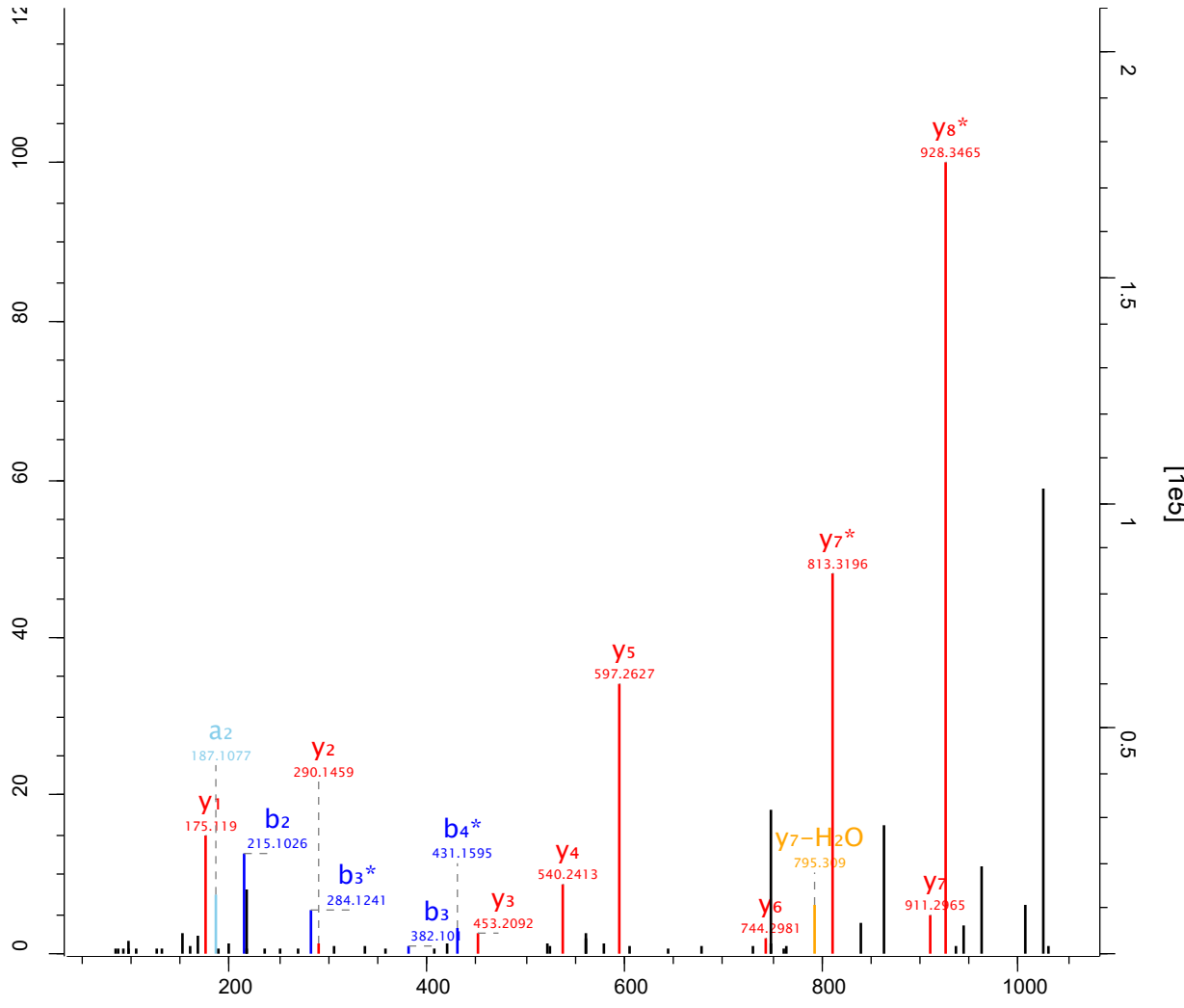
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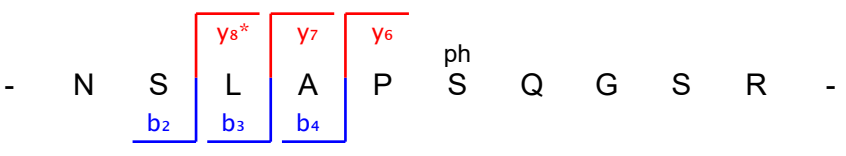
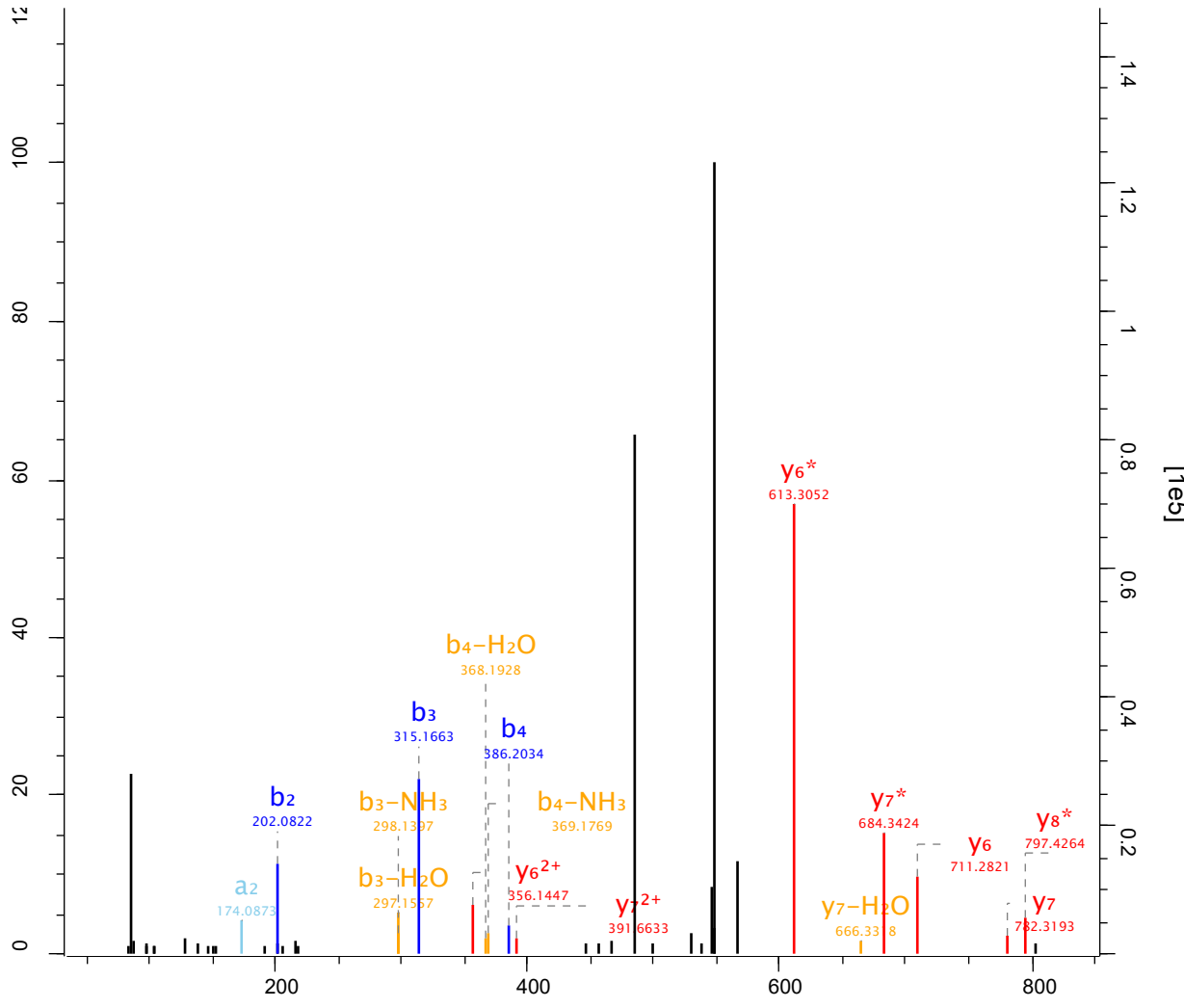
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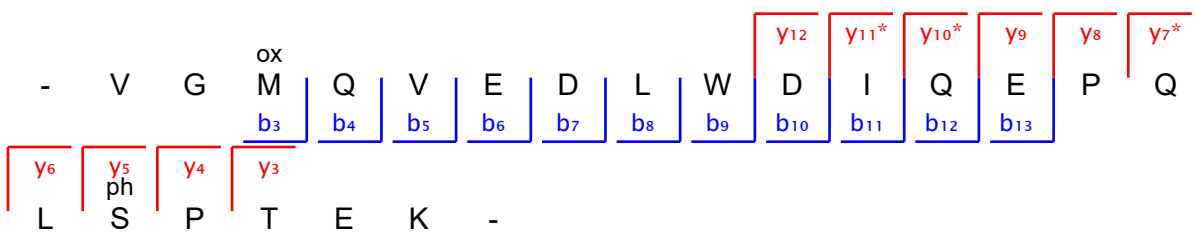
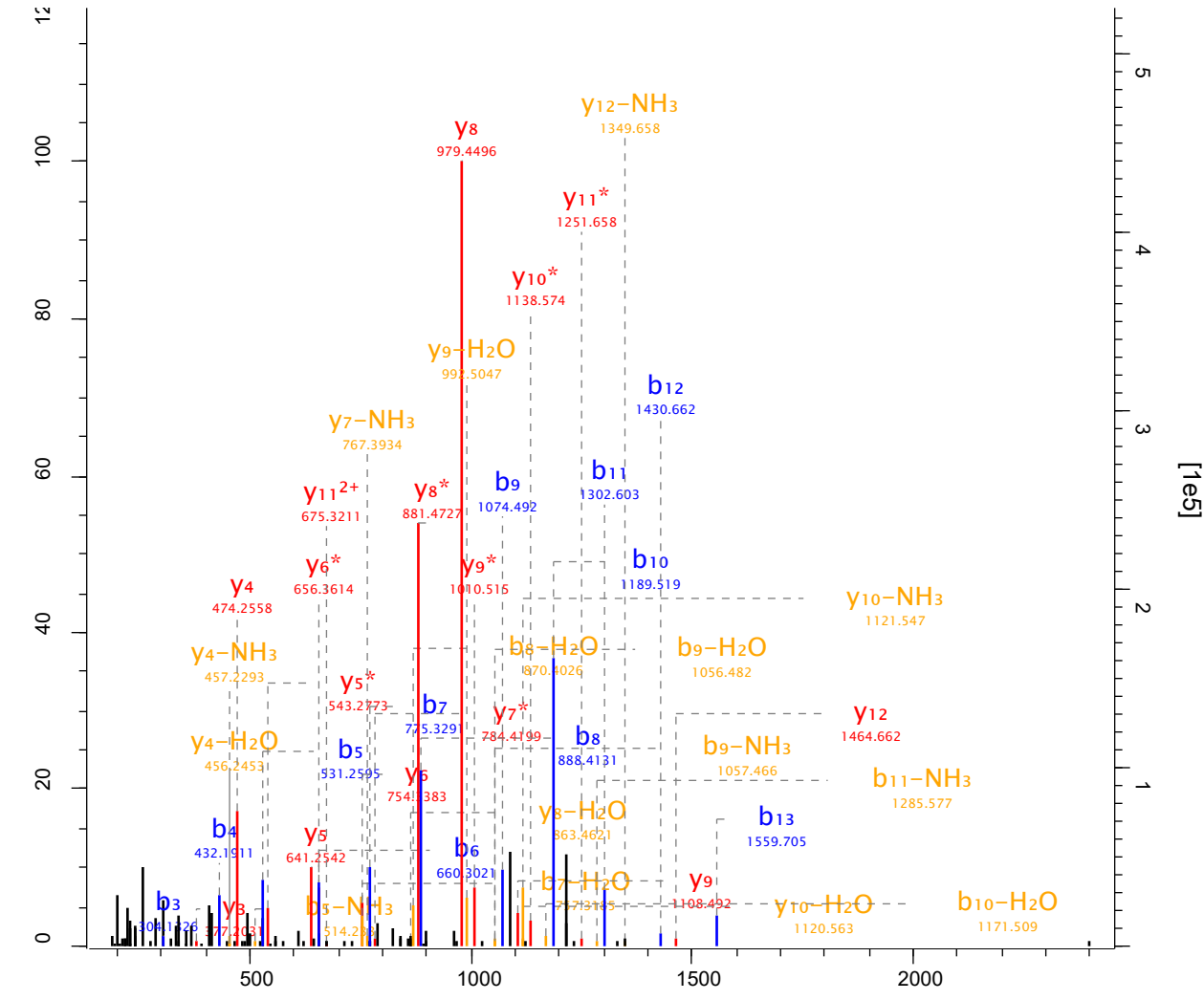
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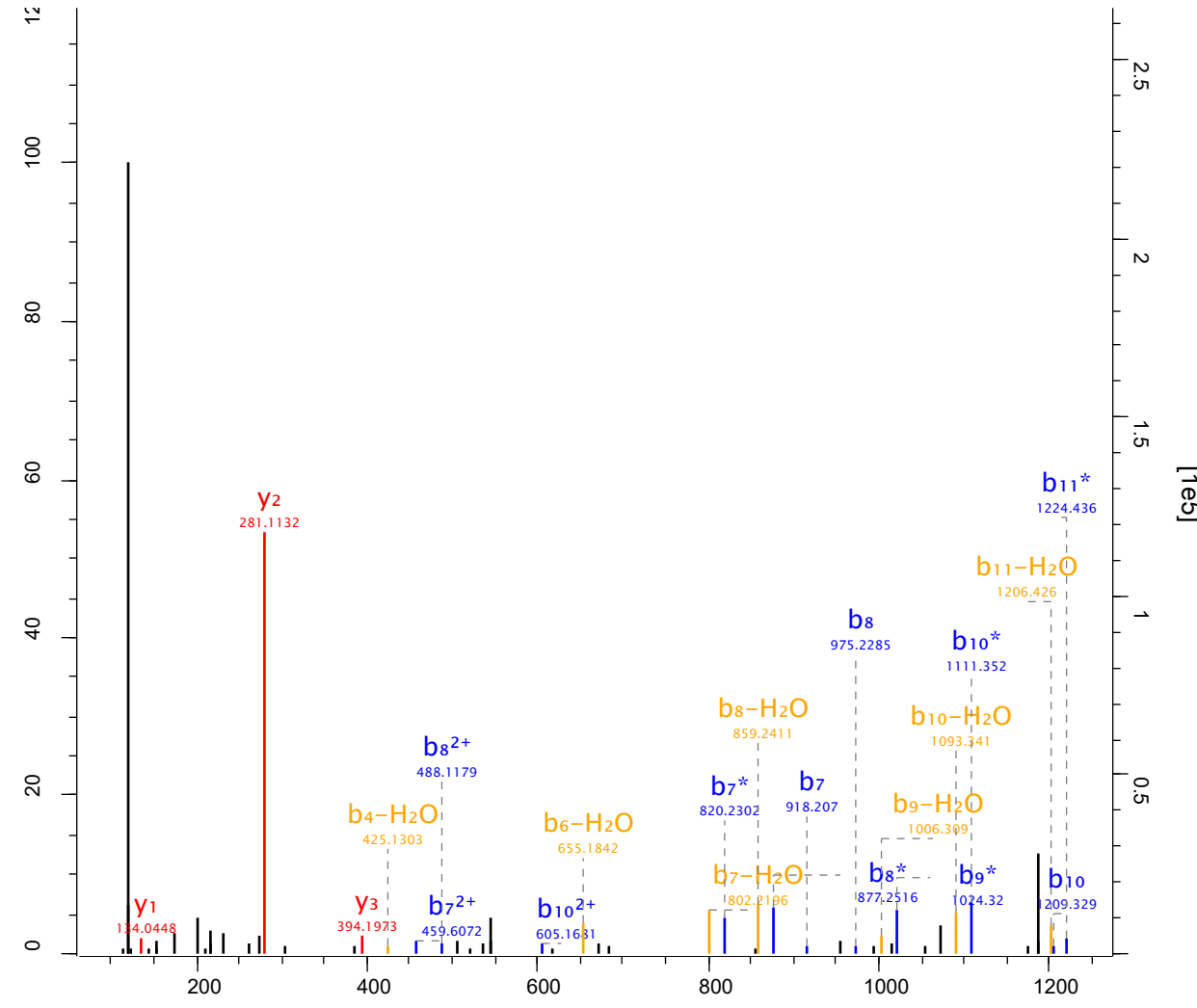
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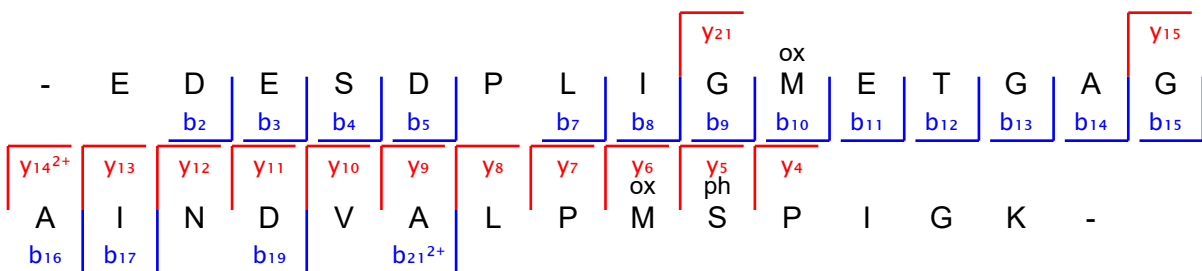
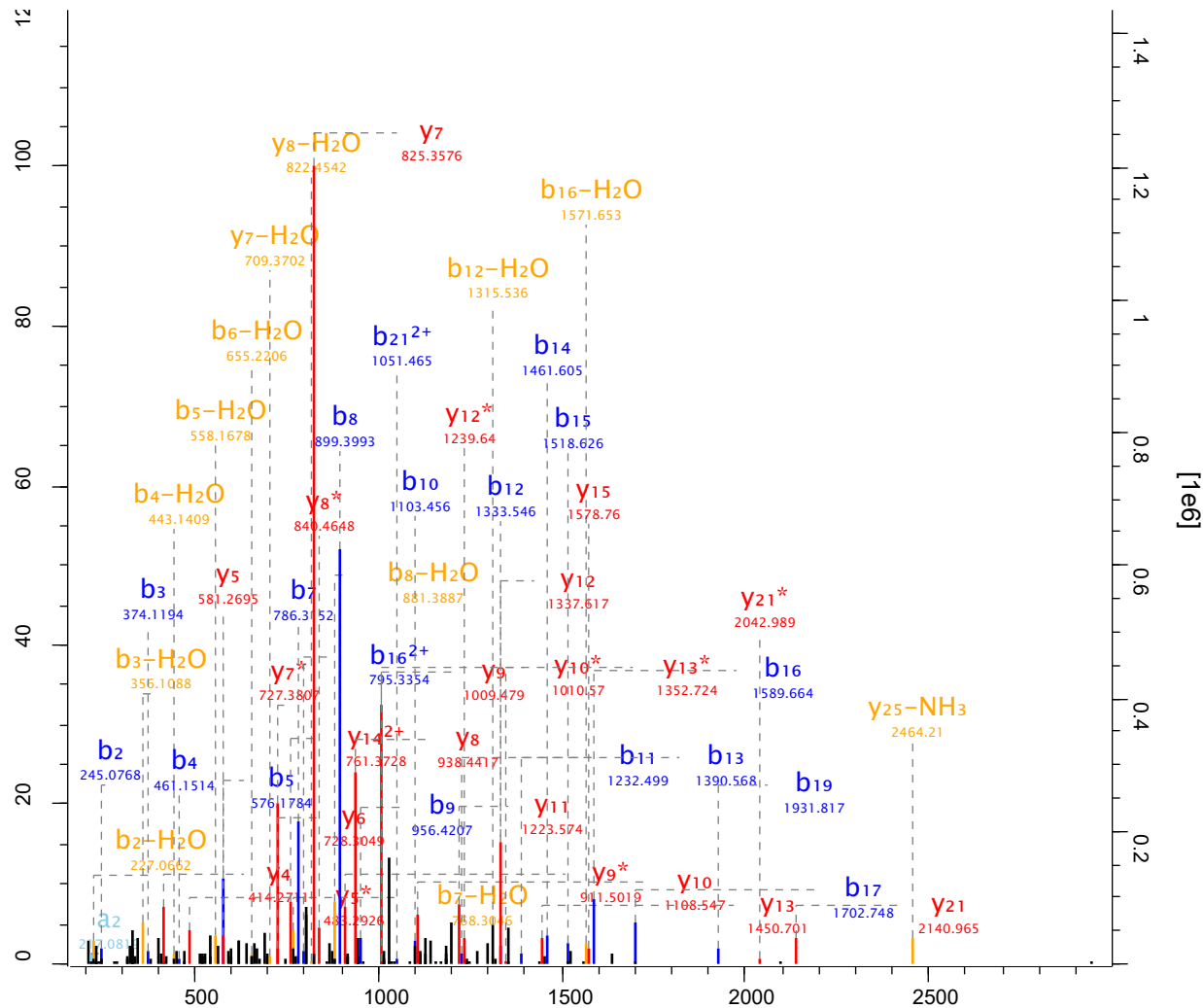


- E E S D D D ox M G F S L F D -

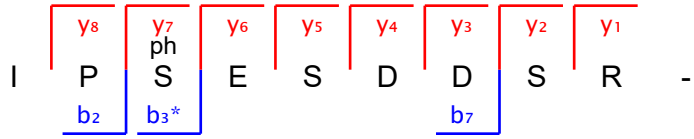
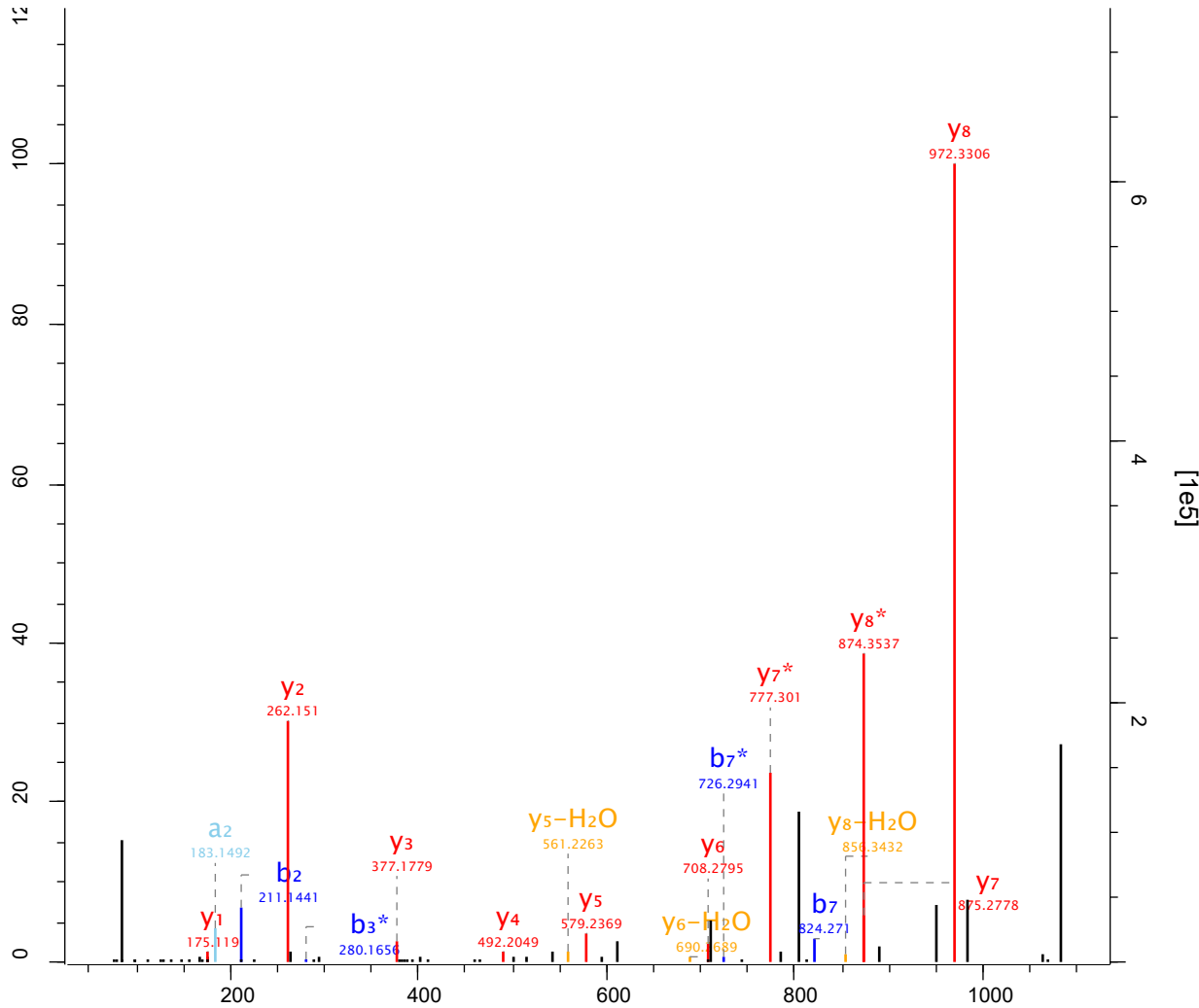
Fragmentation mapping (blue boxes): b7, b8, b9*, b10, b11*

Fragmentation mapping (red boxes): y3, y2, y1

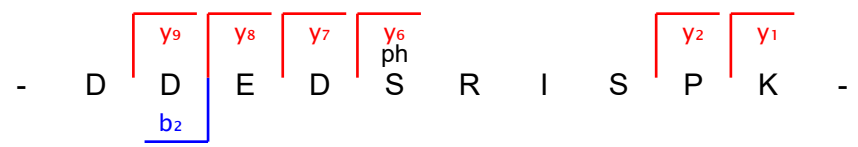
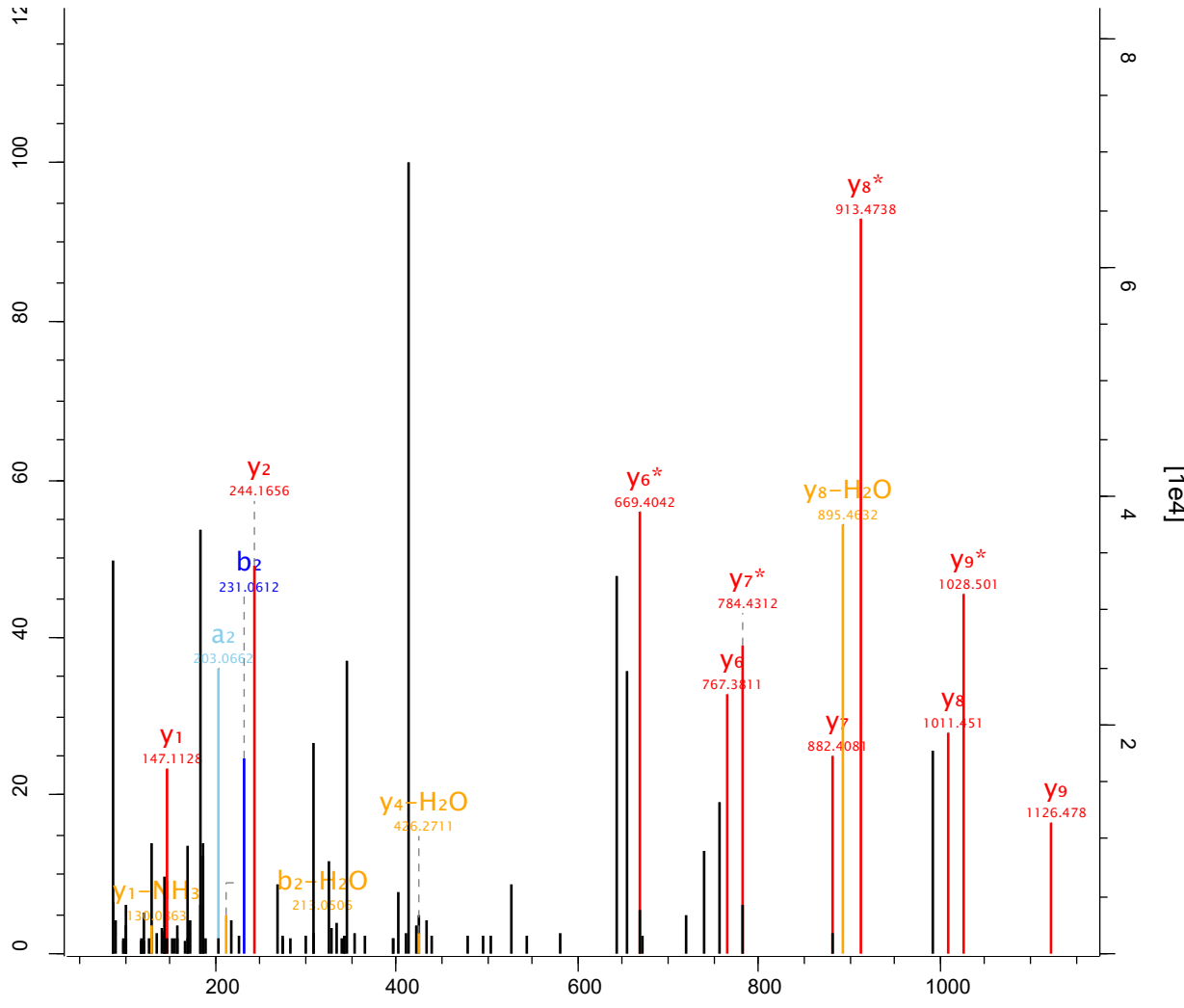
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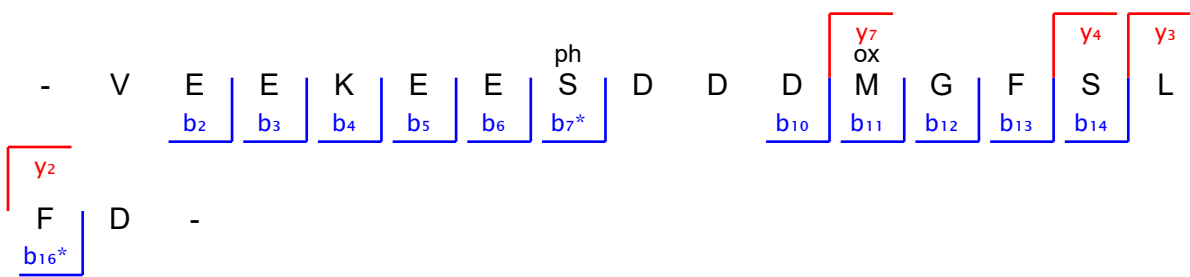
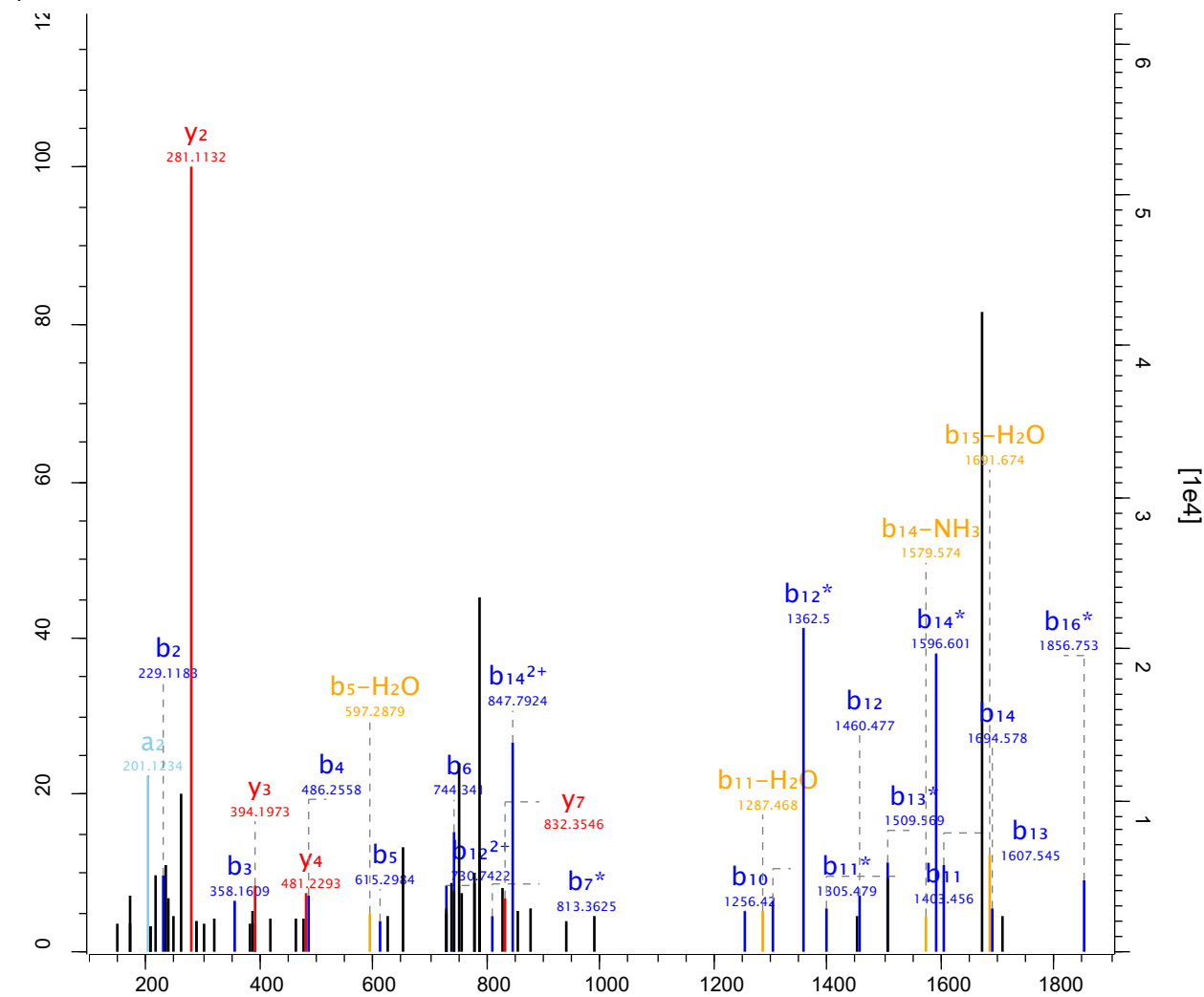
Raw file	Scan	Method	Score	m/z
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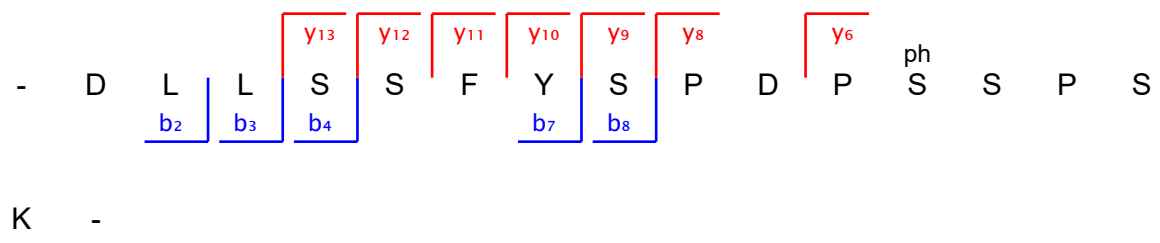
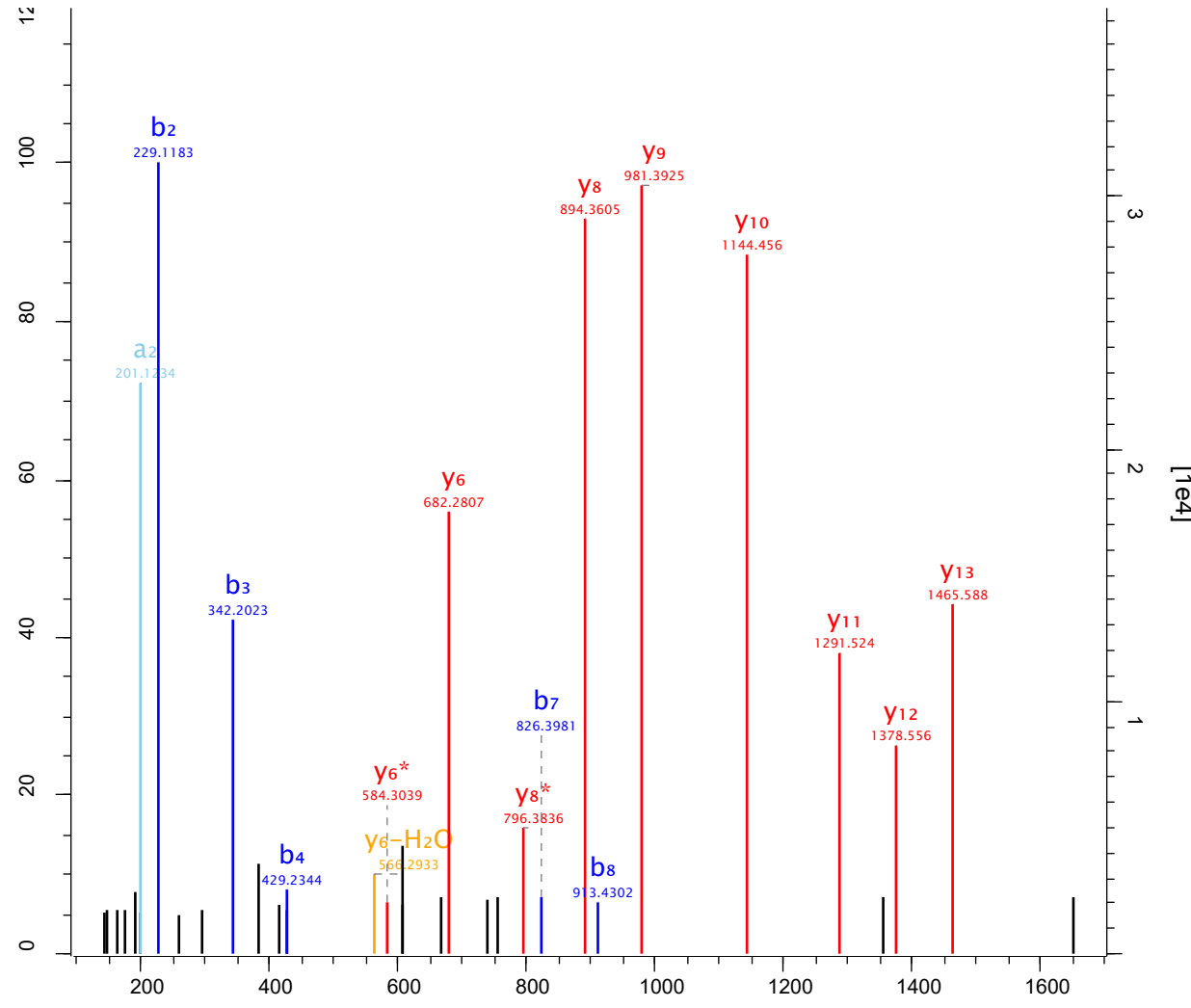
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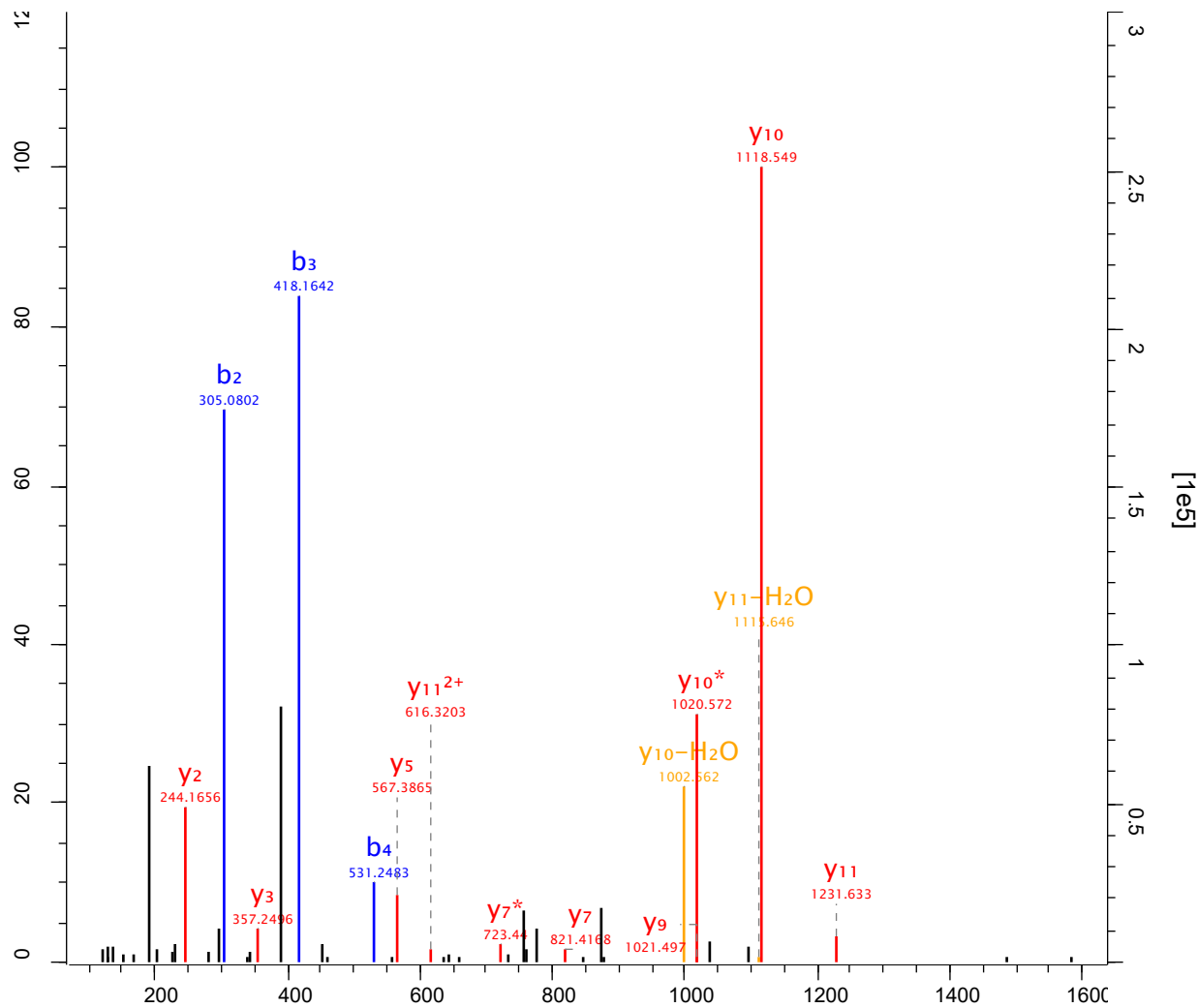
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Raw file Scan Method Score m/z
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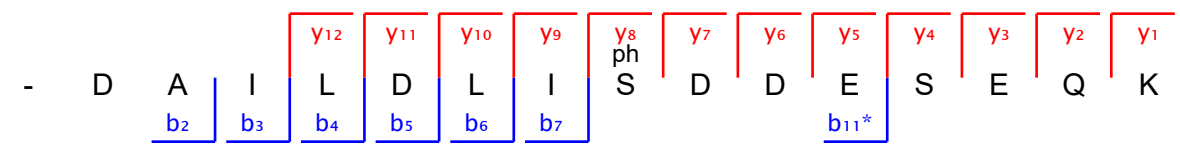
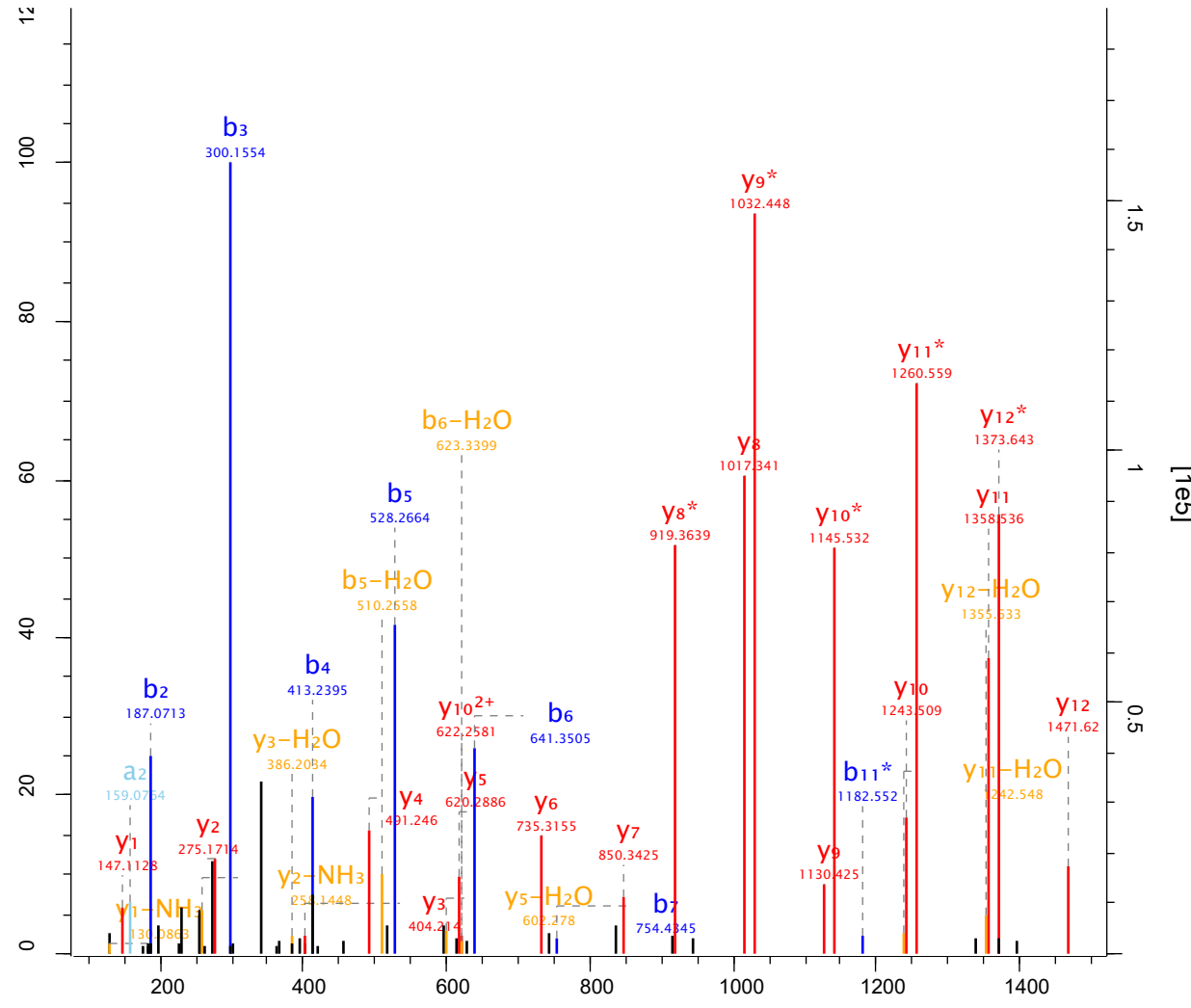


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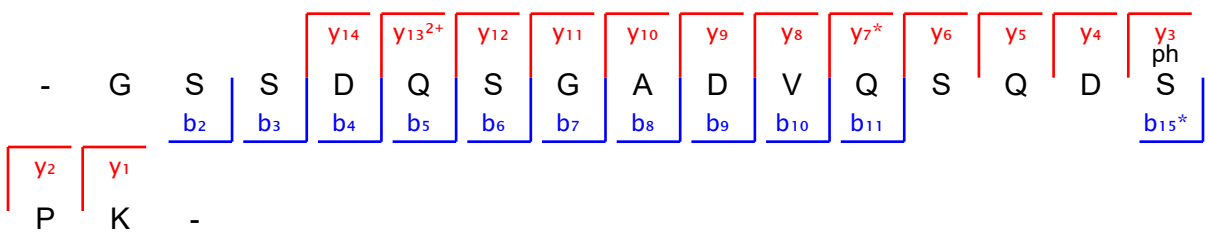
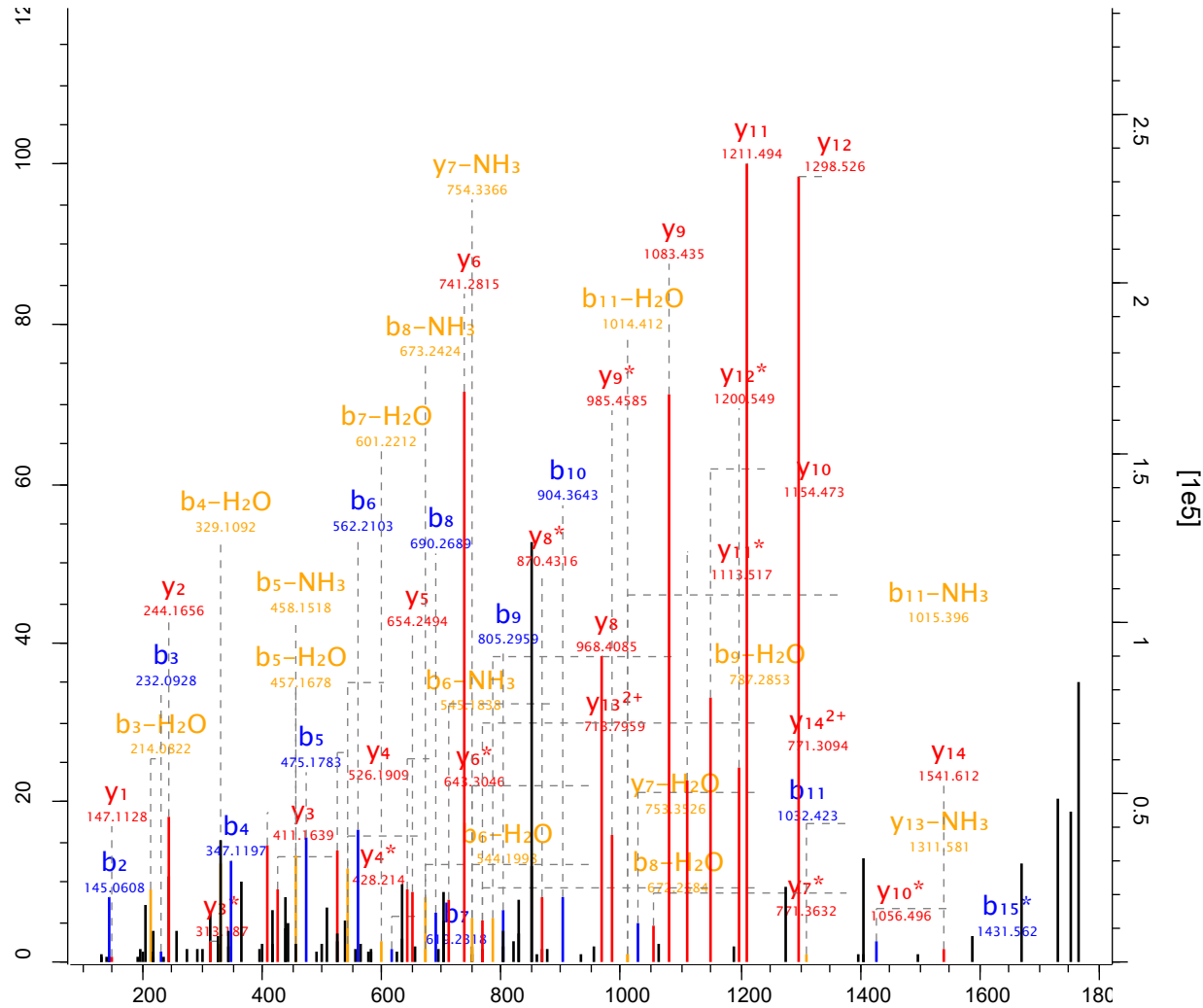


ac ox
 - M D L L P A E S S P I L P K -
 b₂ b₃ b₄ y₁₁ y₁₀ y₉ y₇ ph y₅ y₃ y₂

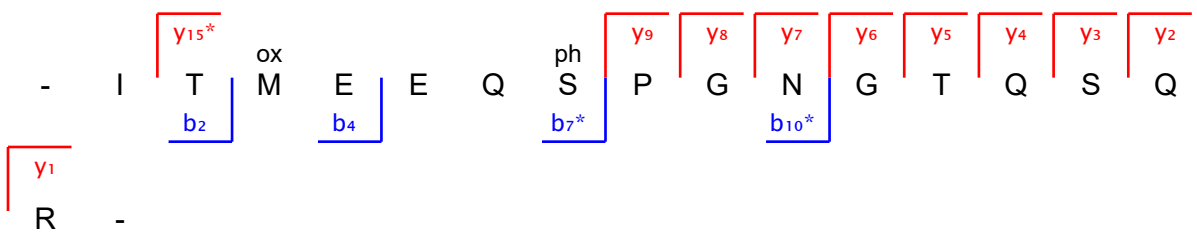
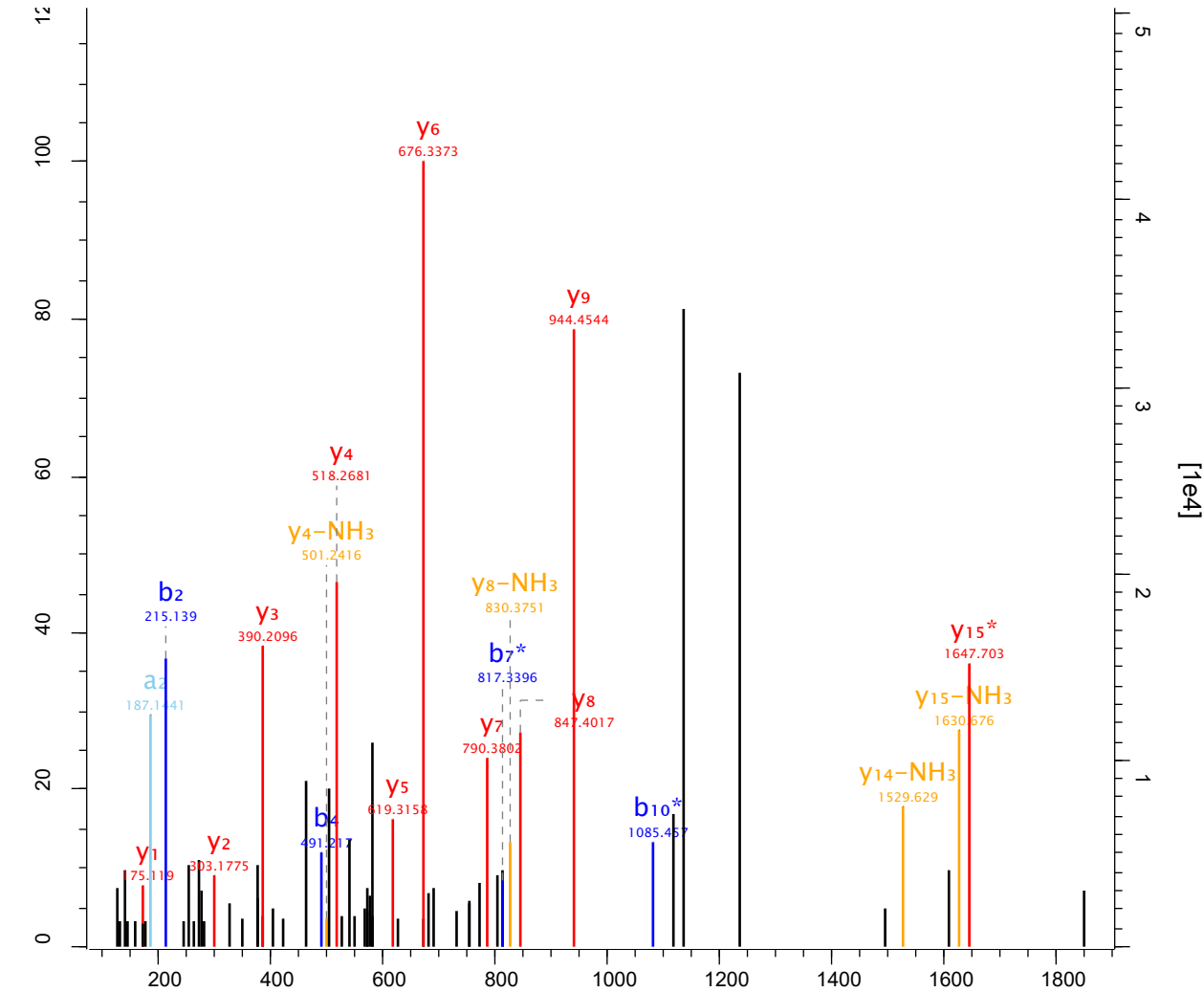
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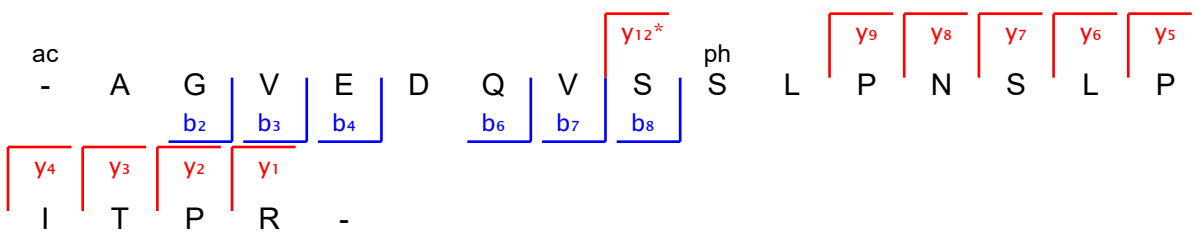
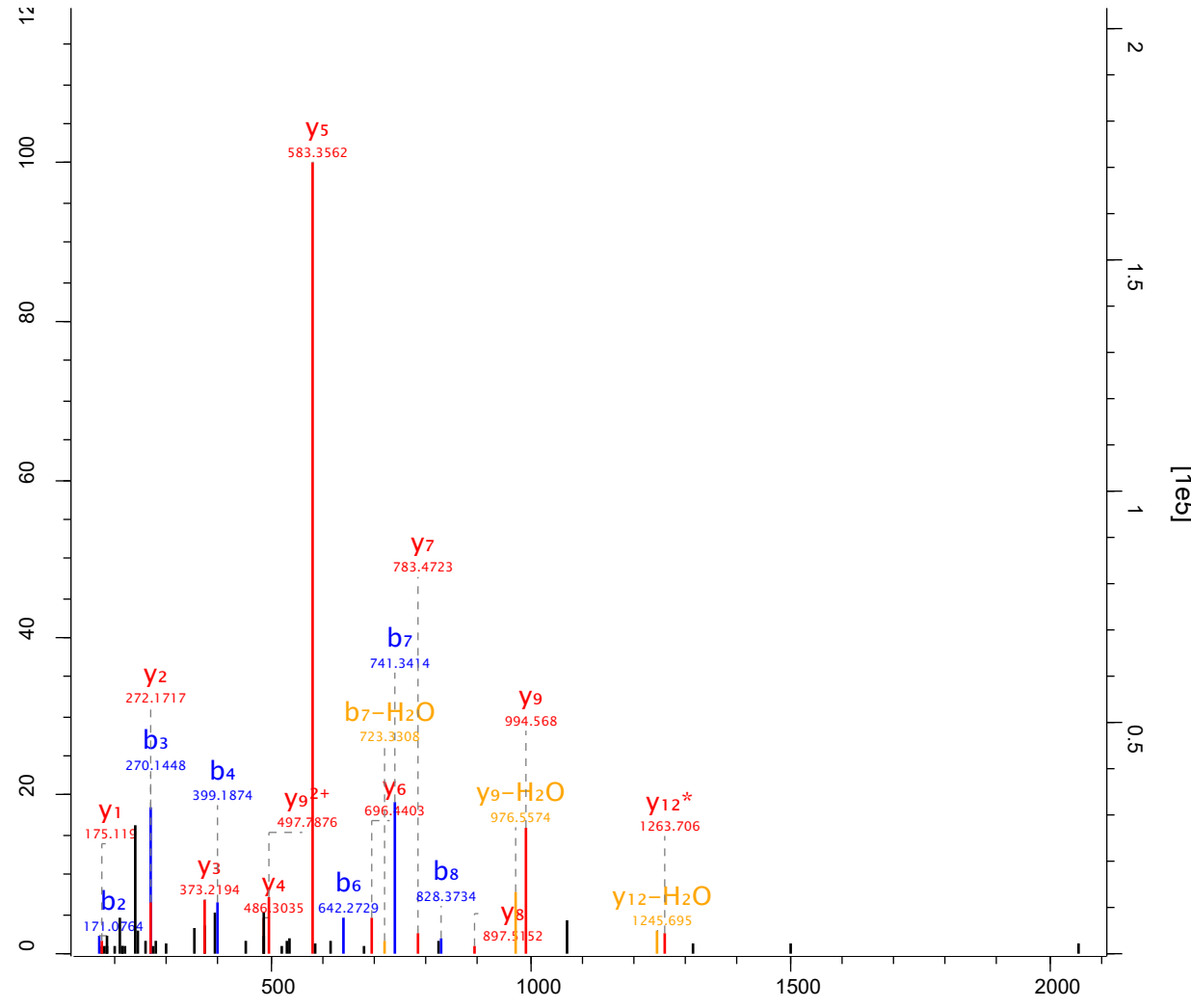
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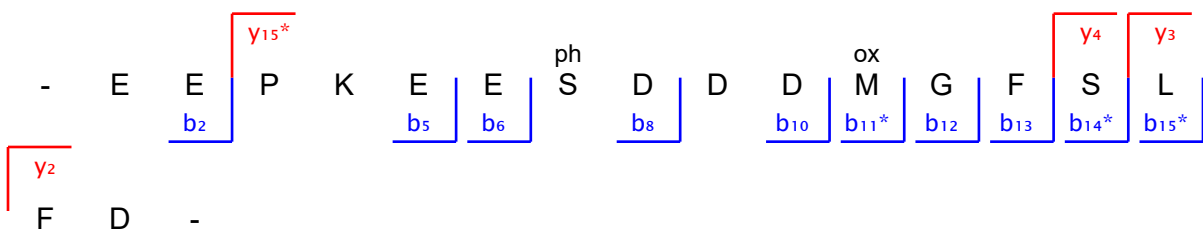
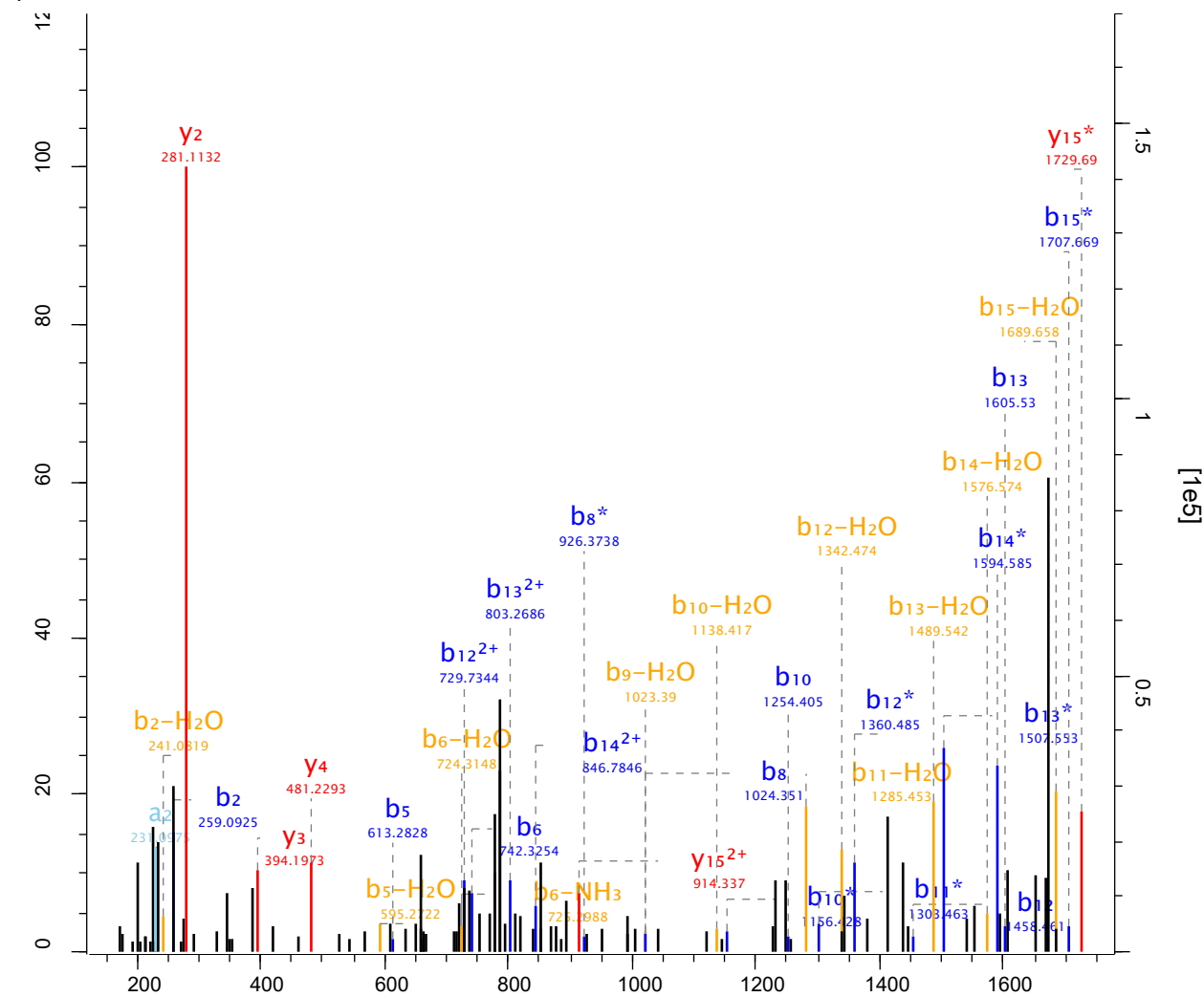
Raw file	Scan	Method	Score	m/z
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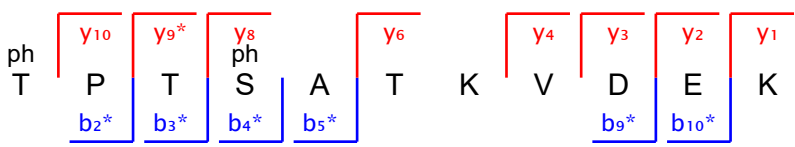
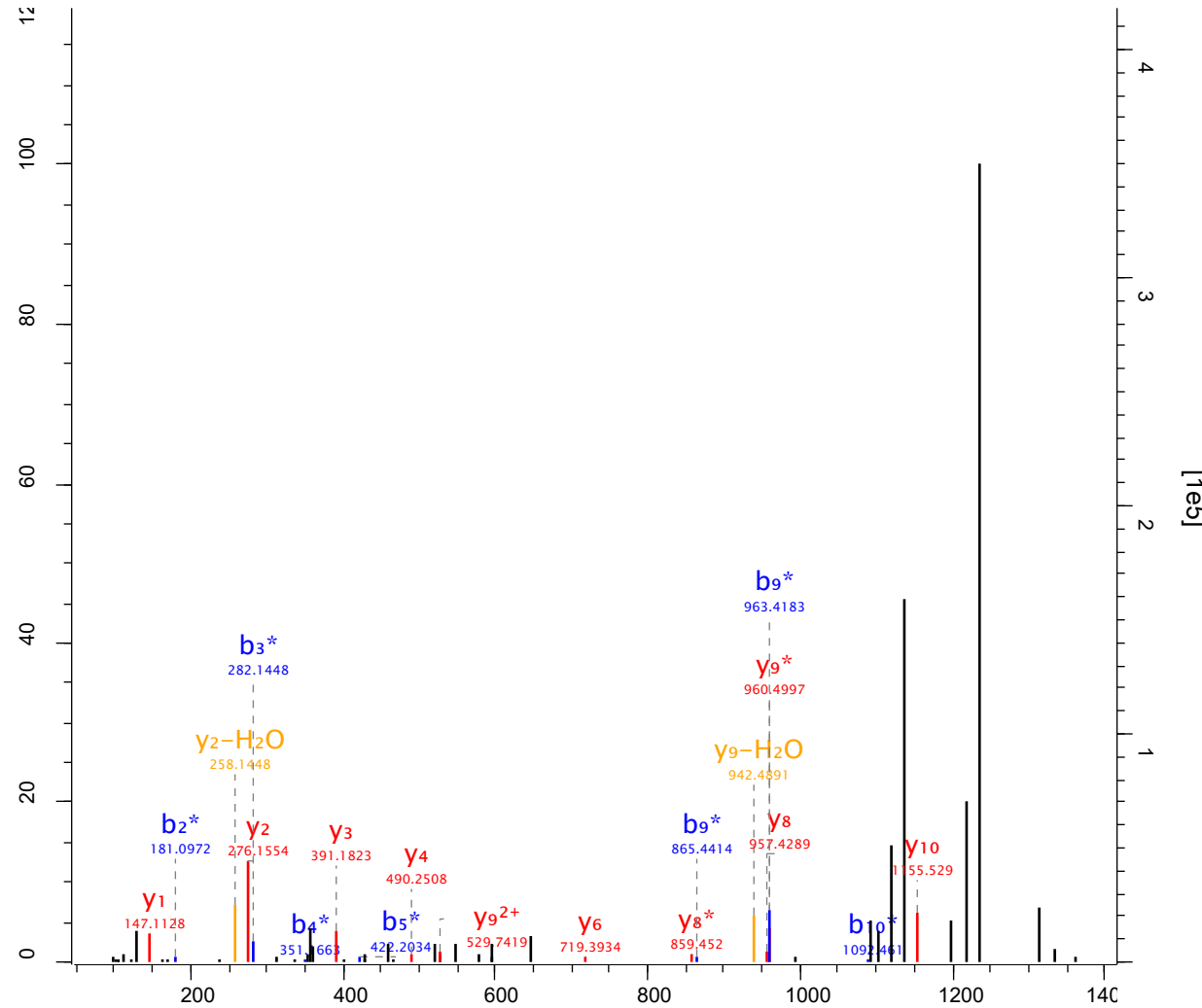
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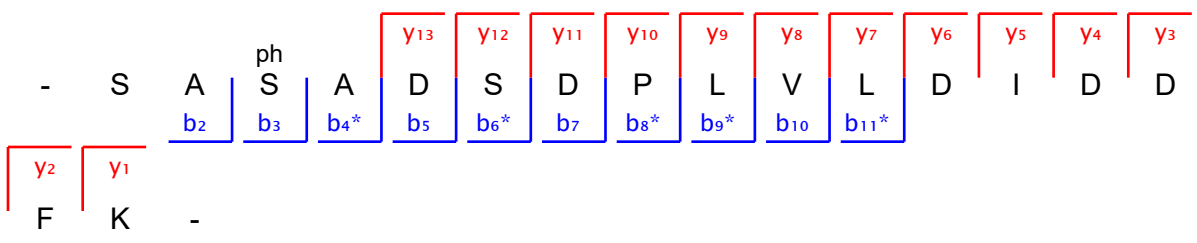
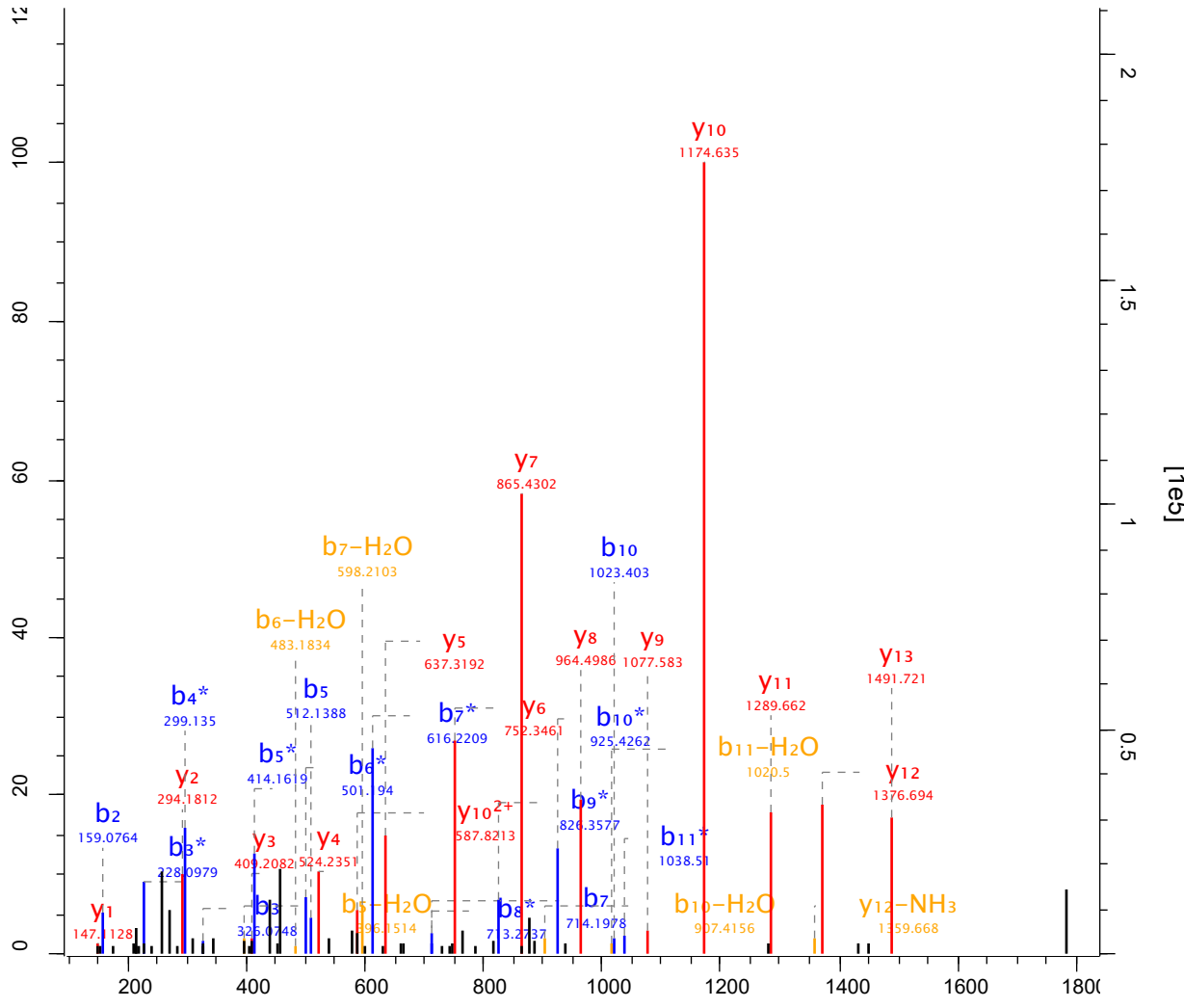
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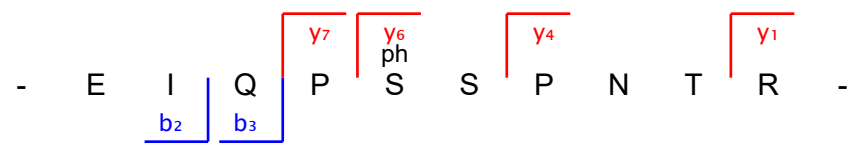
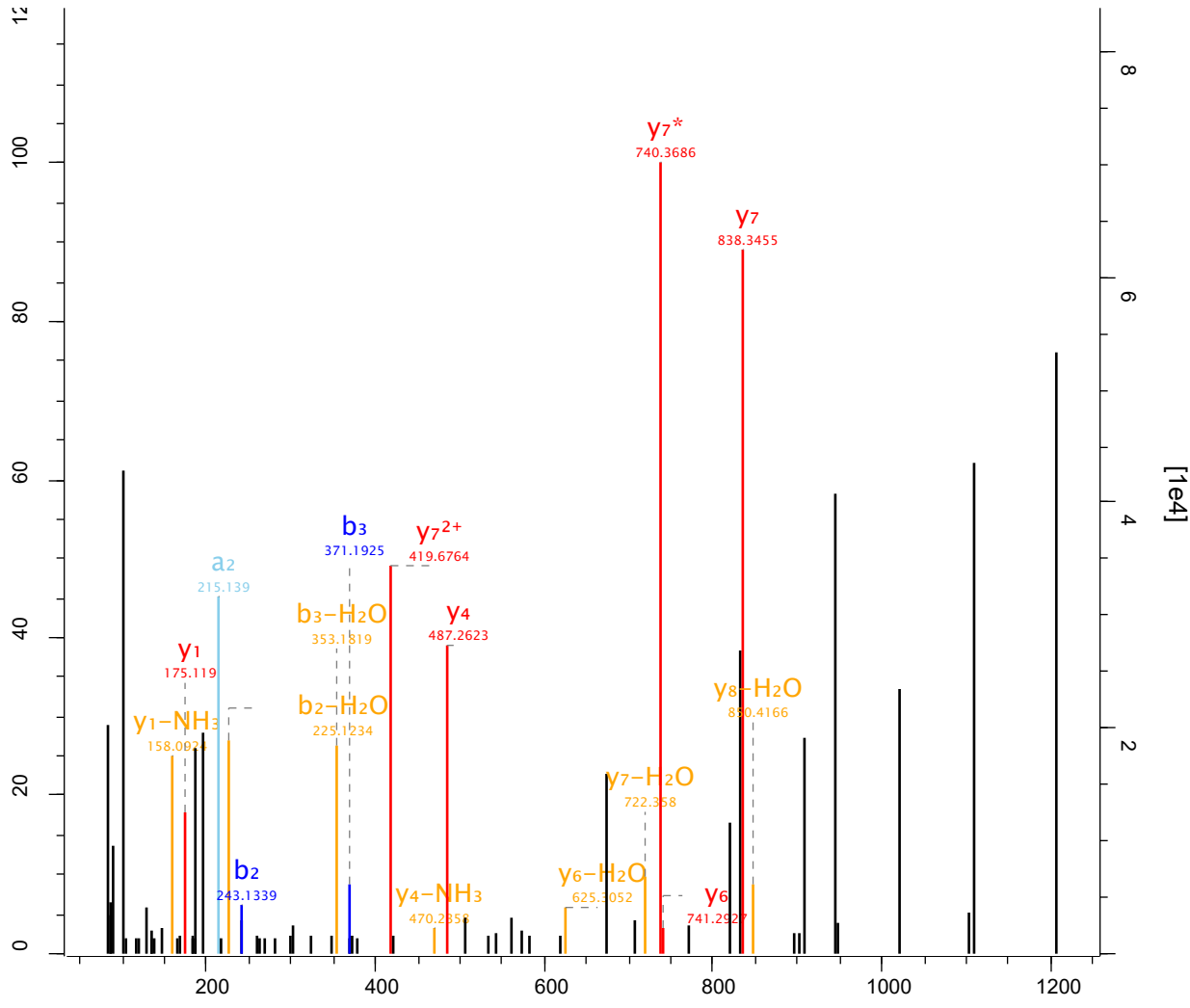
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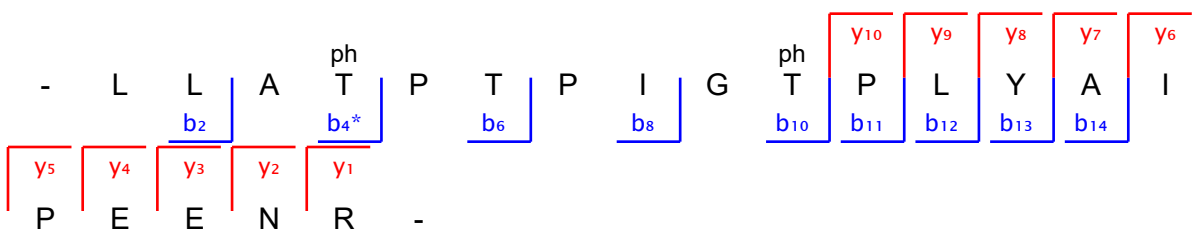
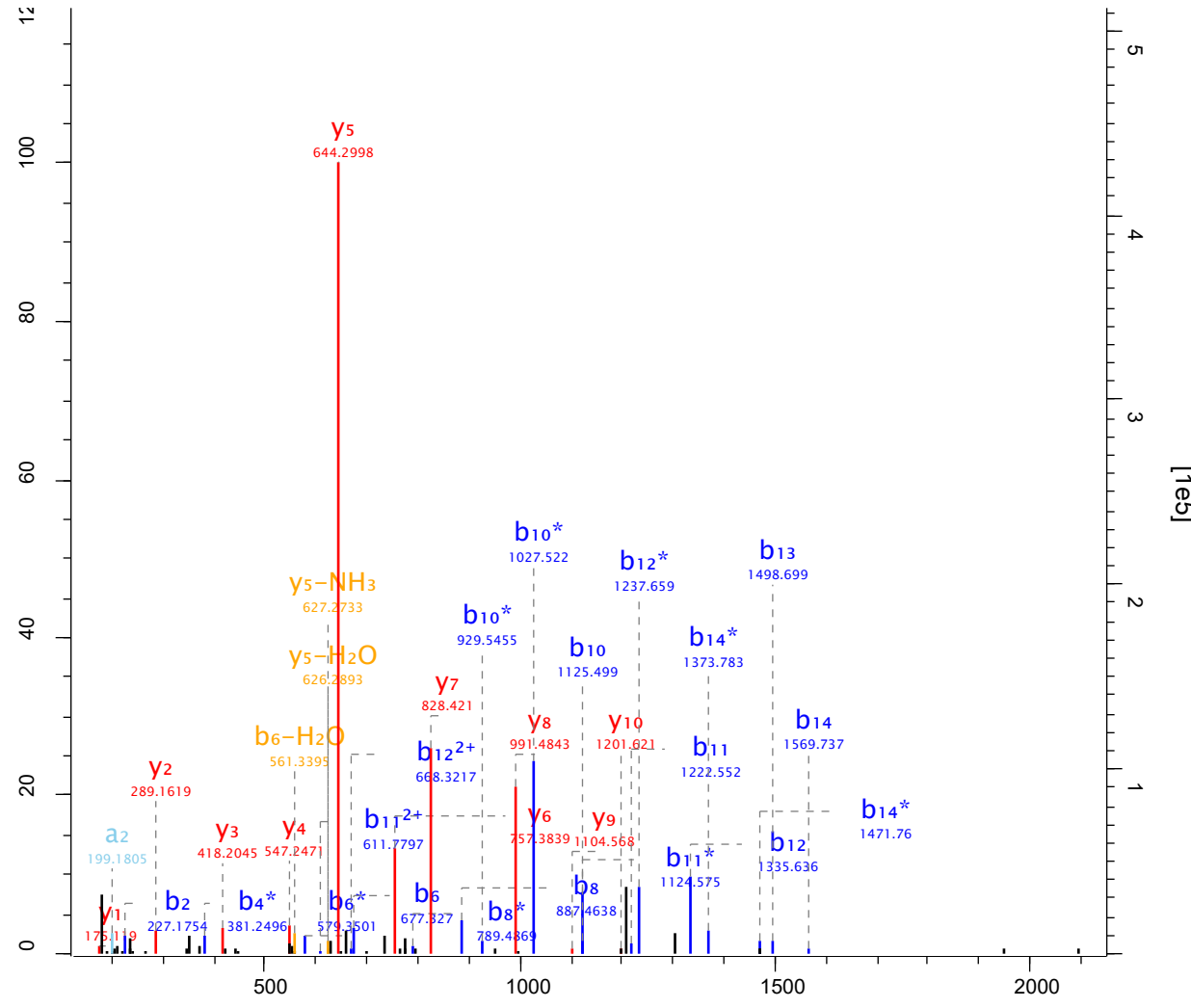
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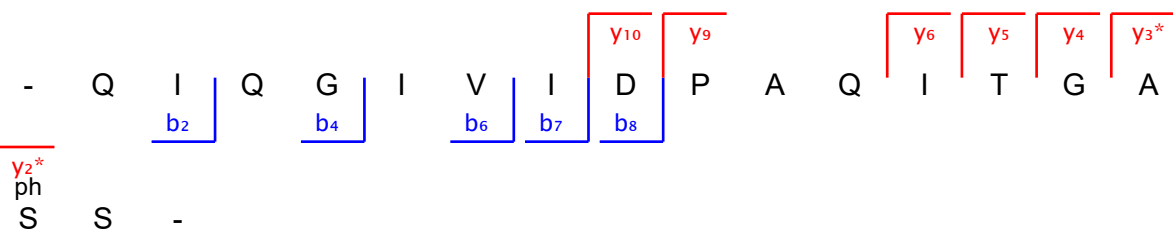
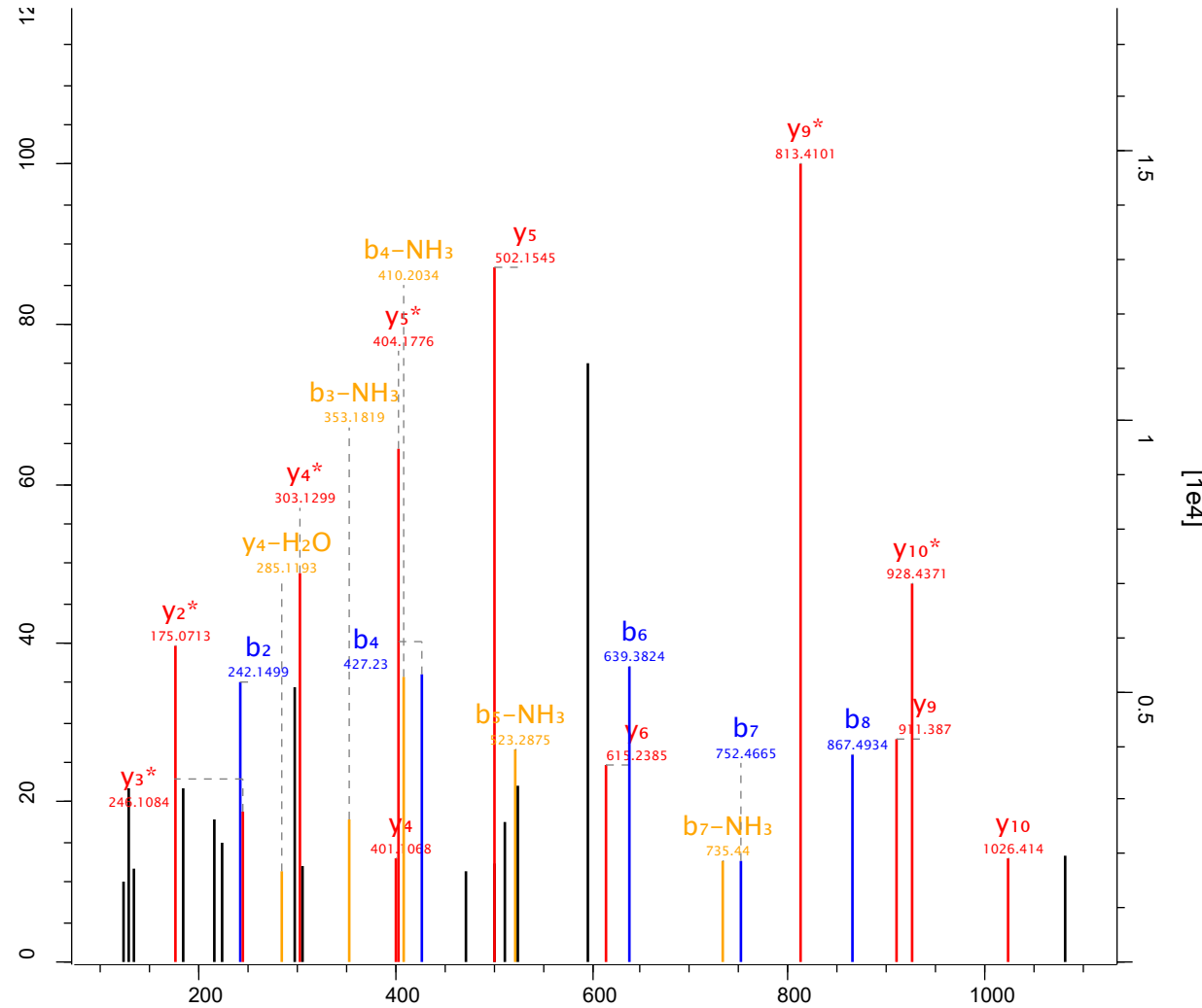
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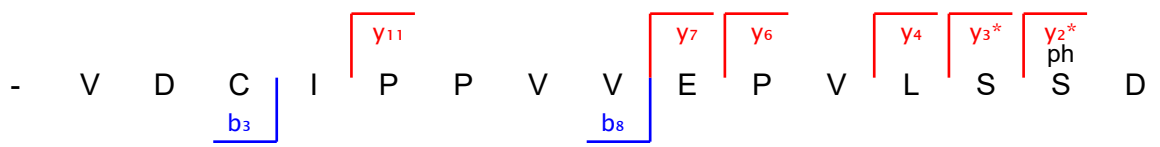
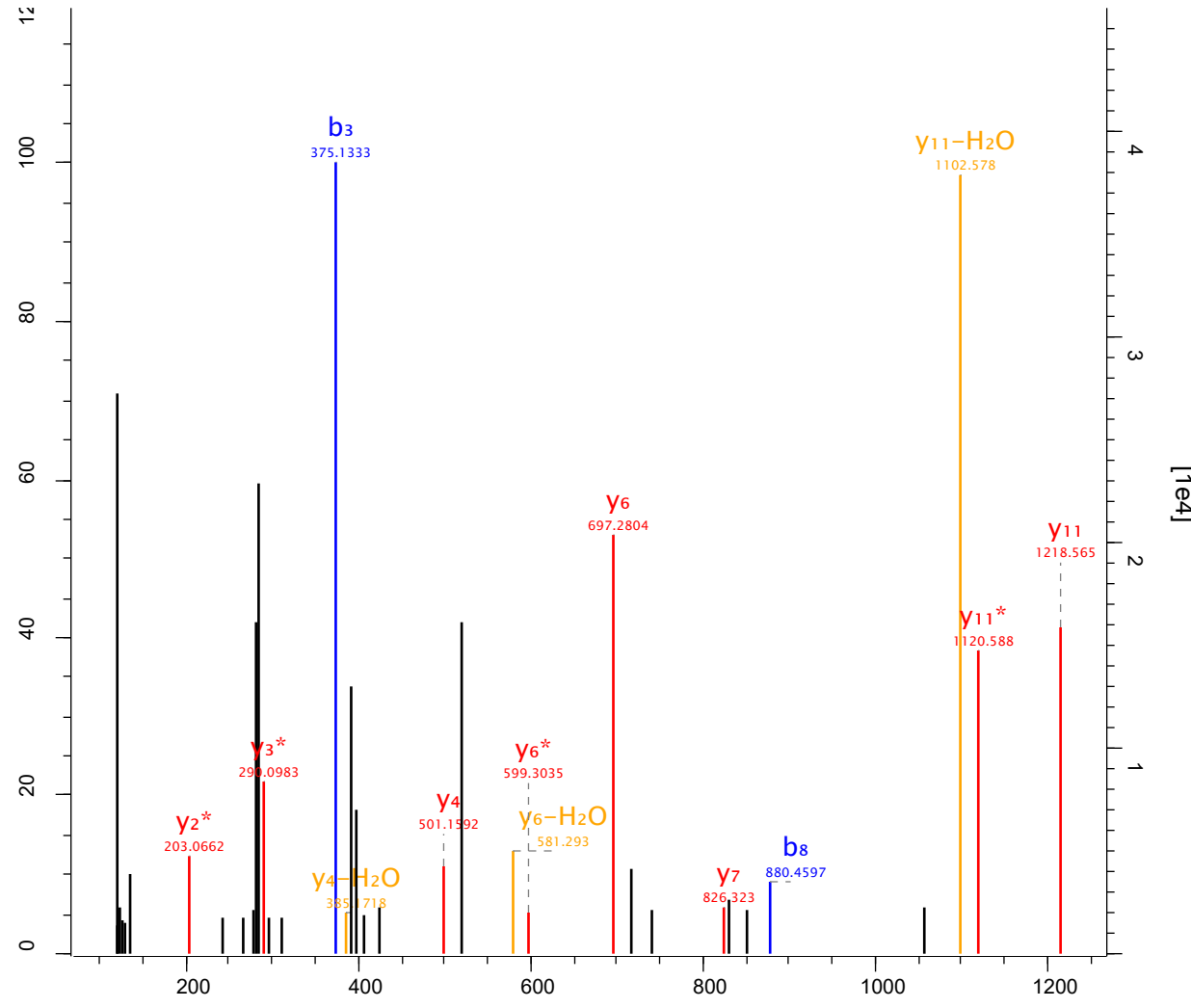
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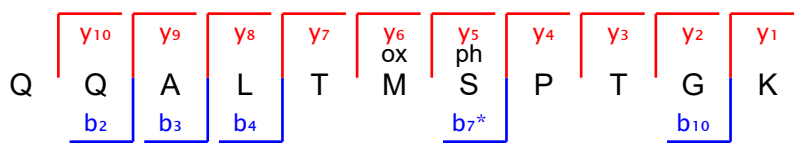
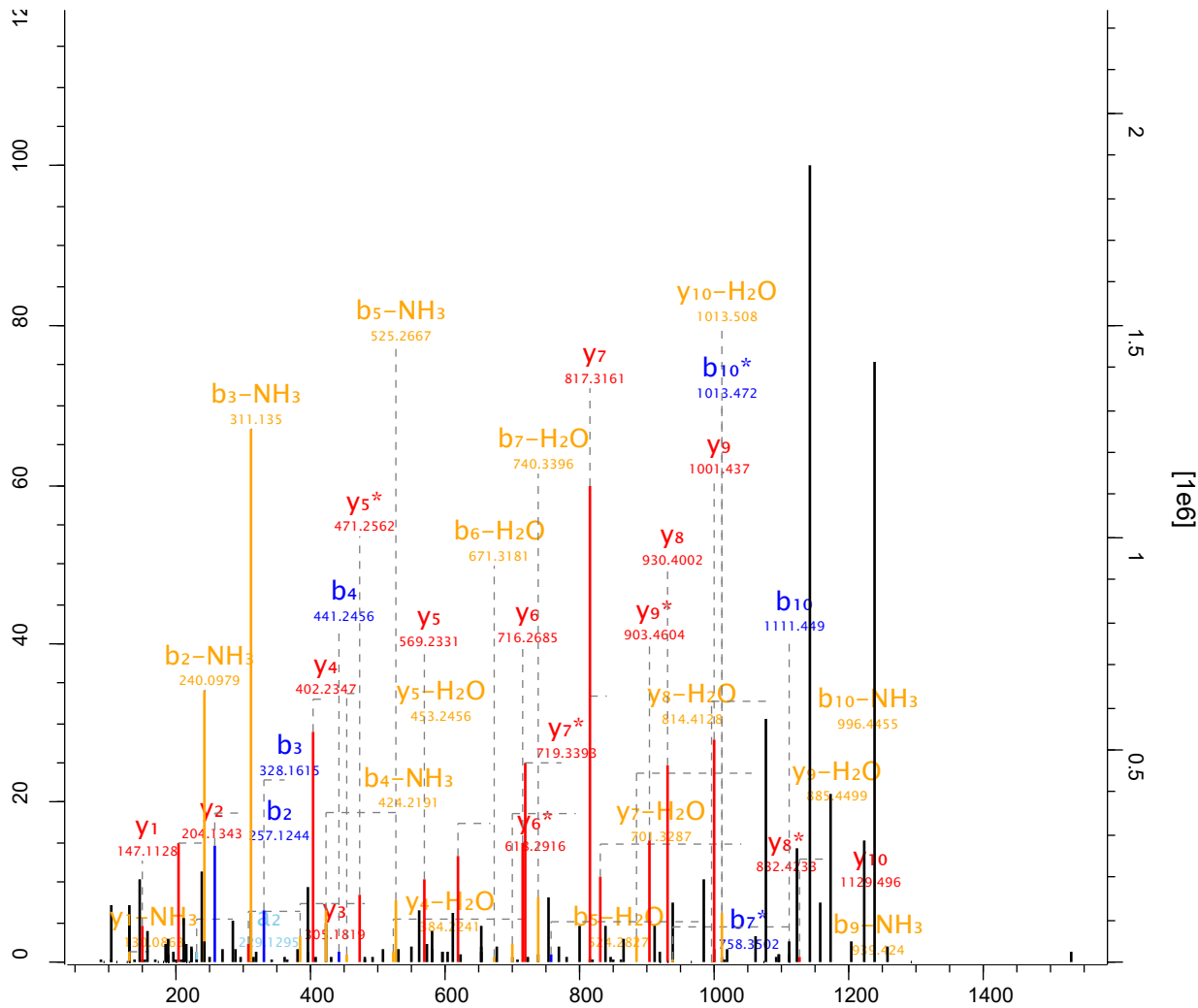
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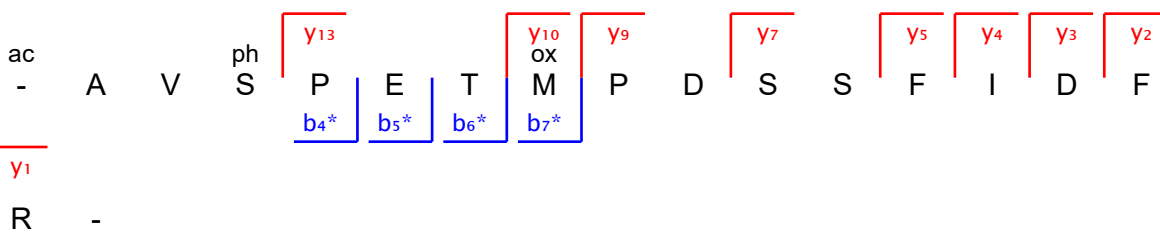
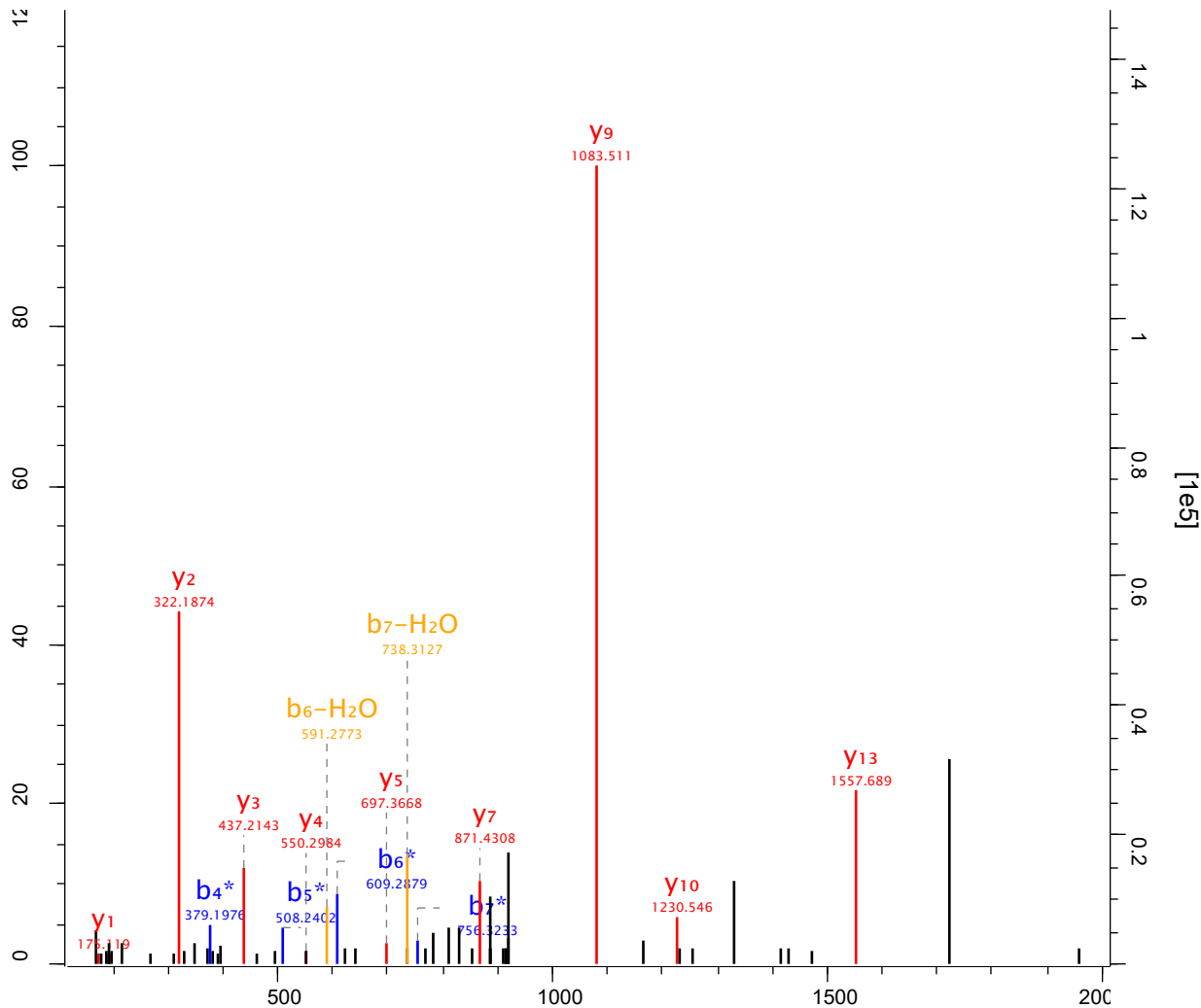
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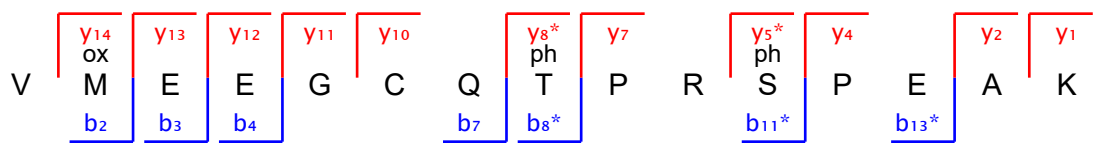
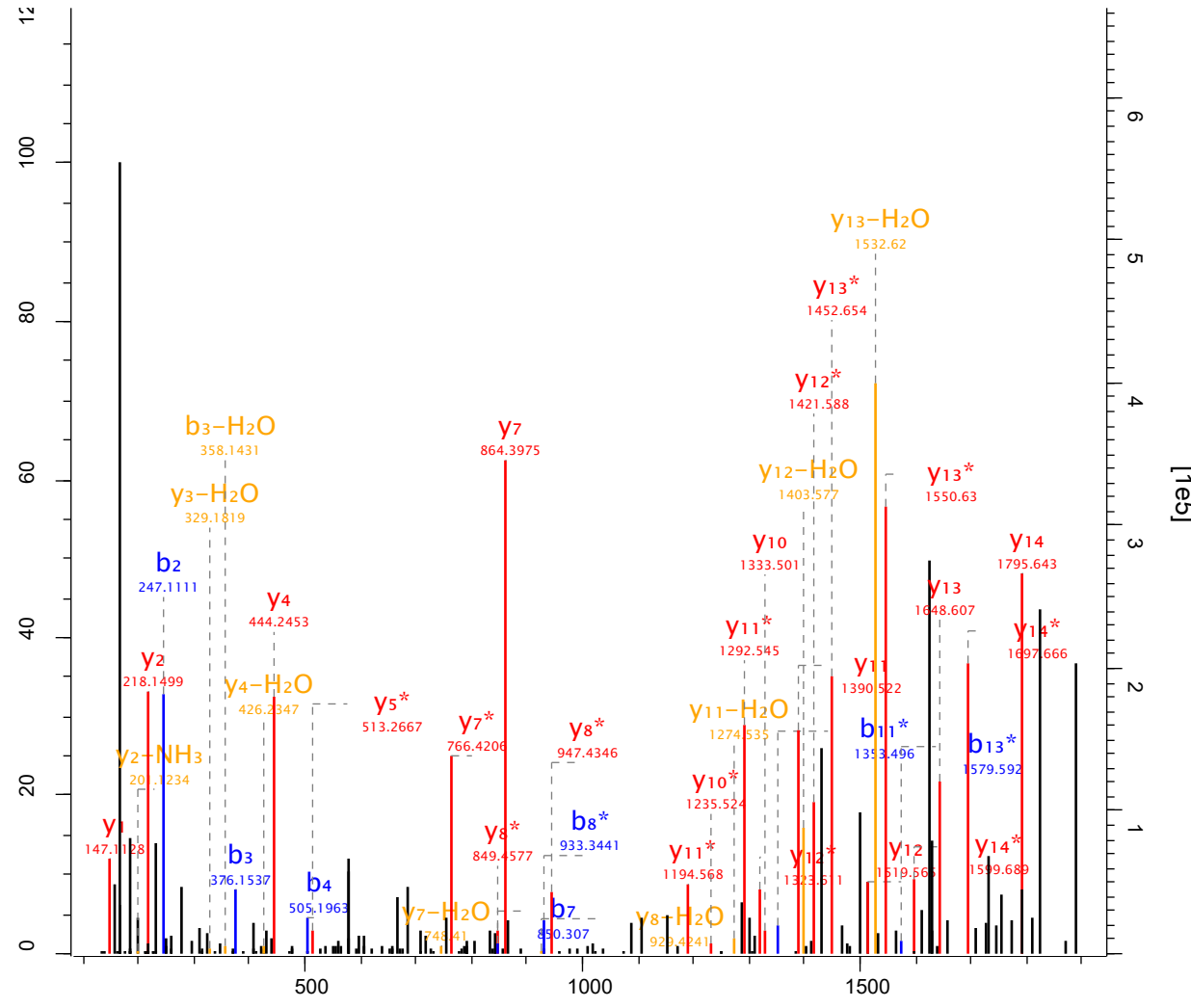
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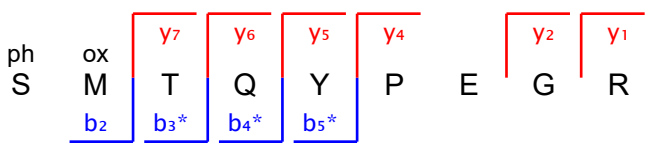
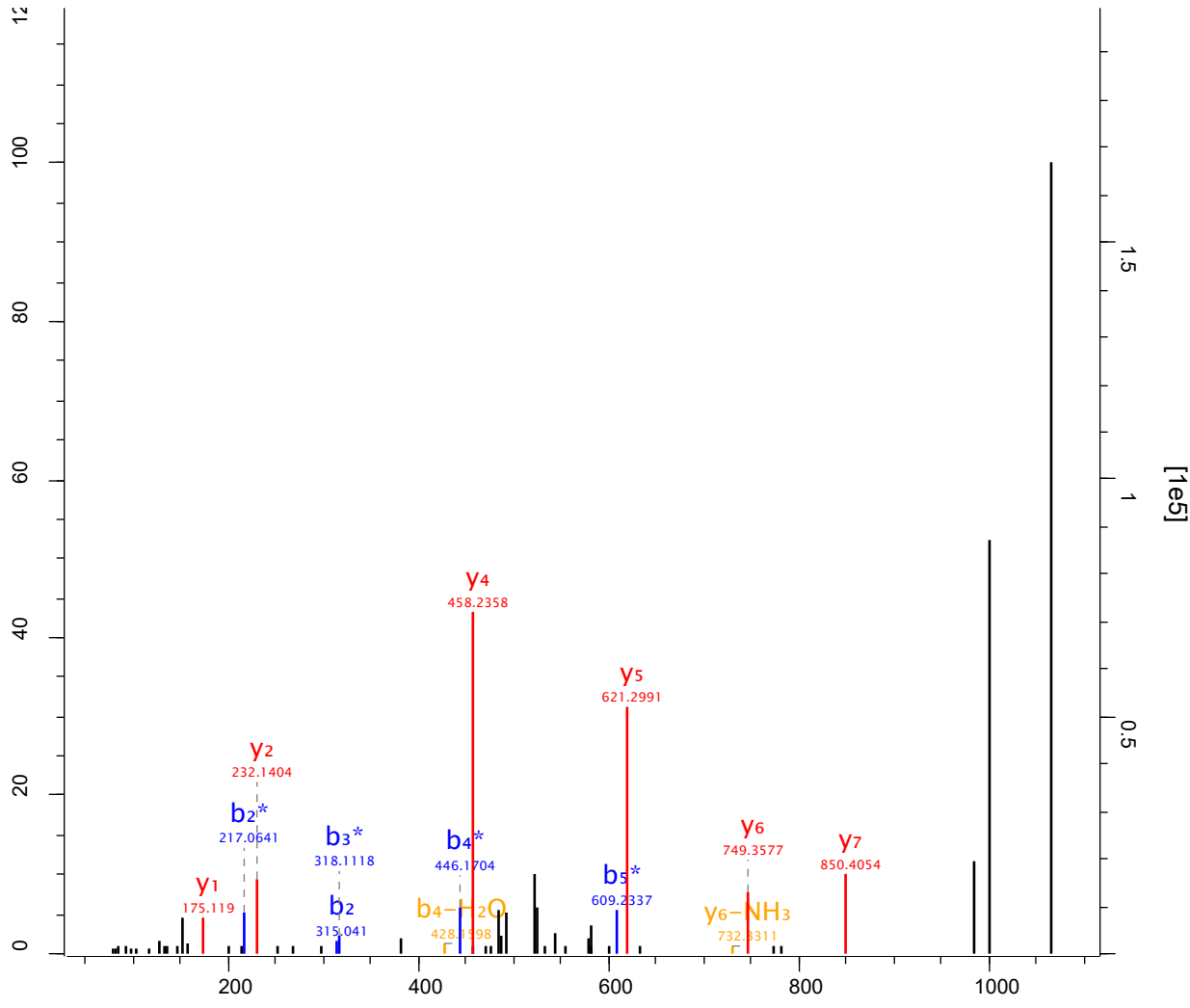
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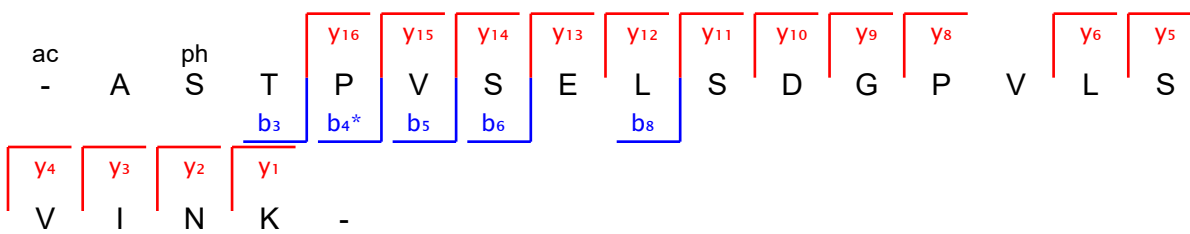
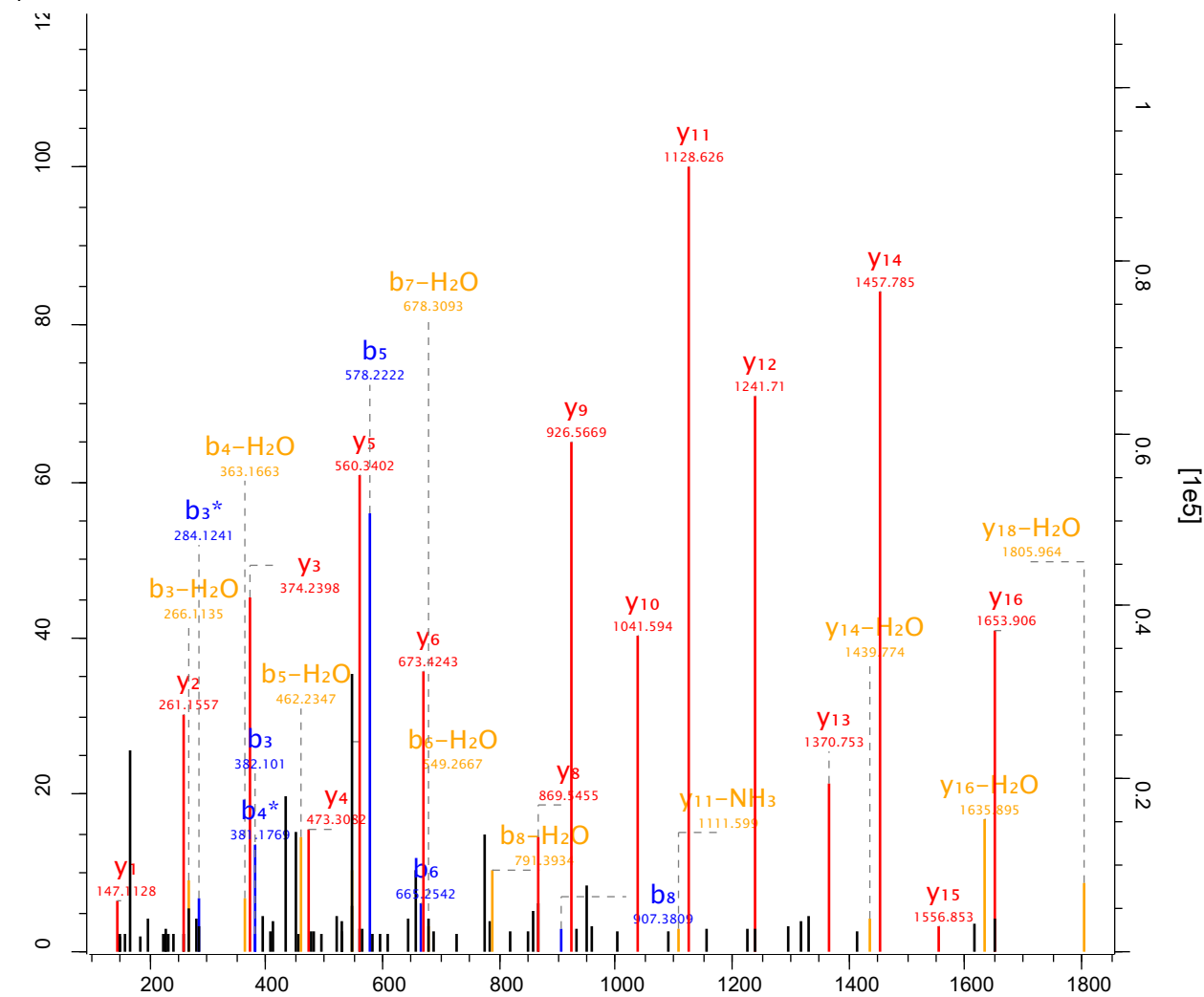
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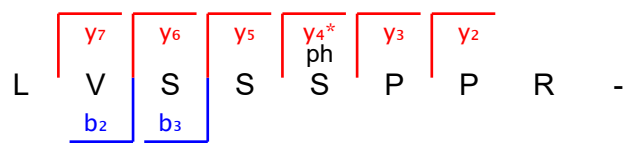
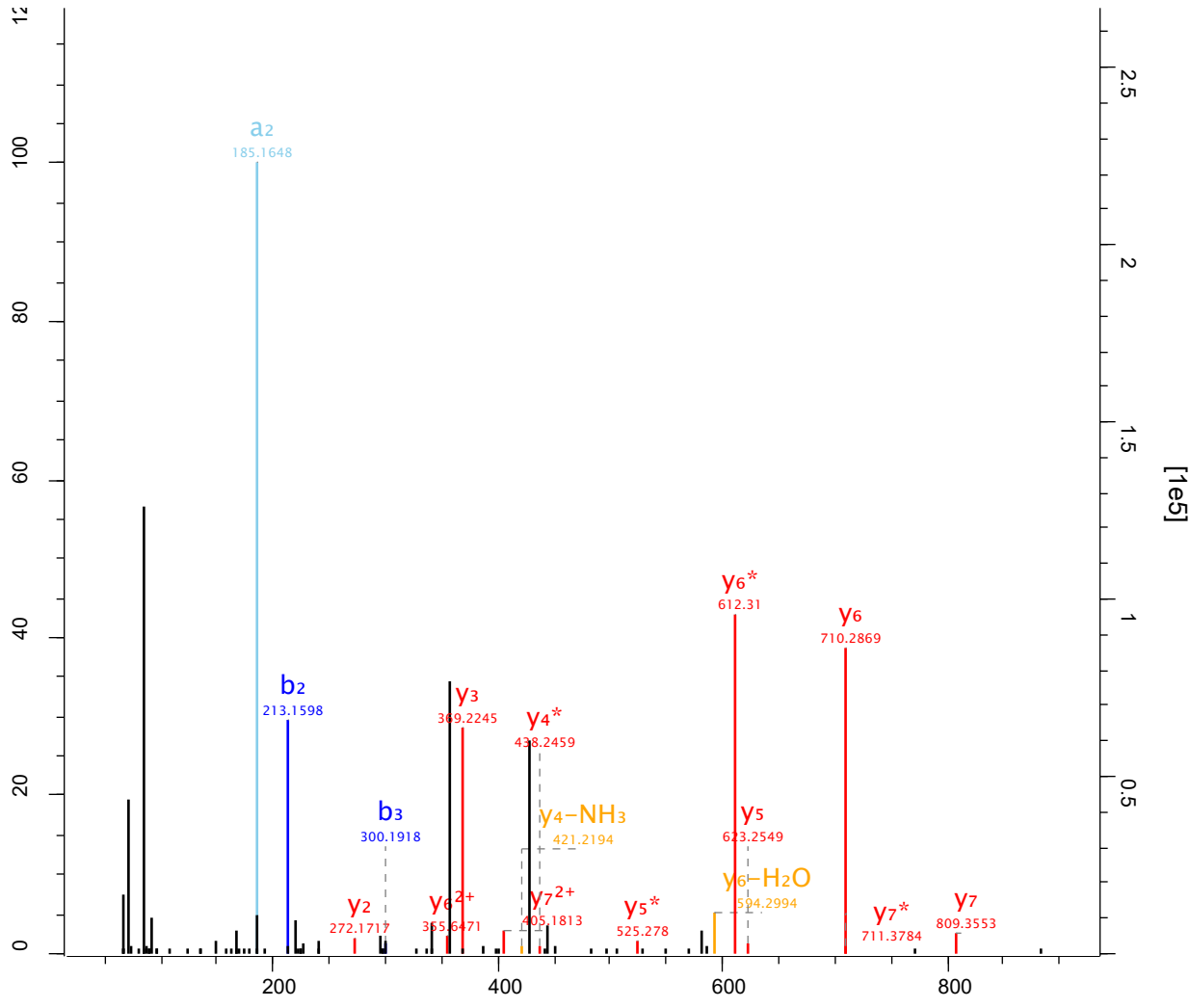
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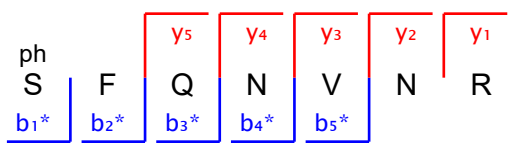
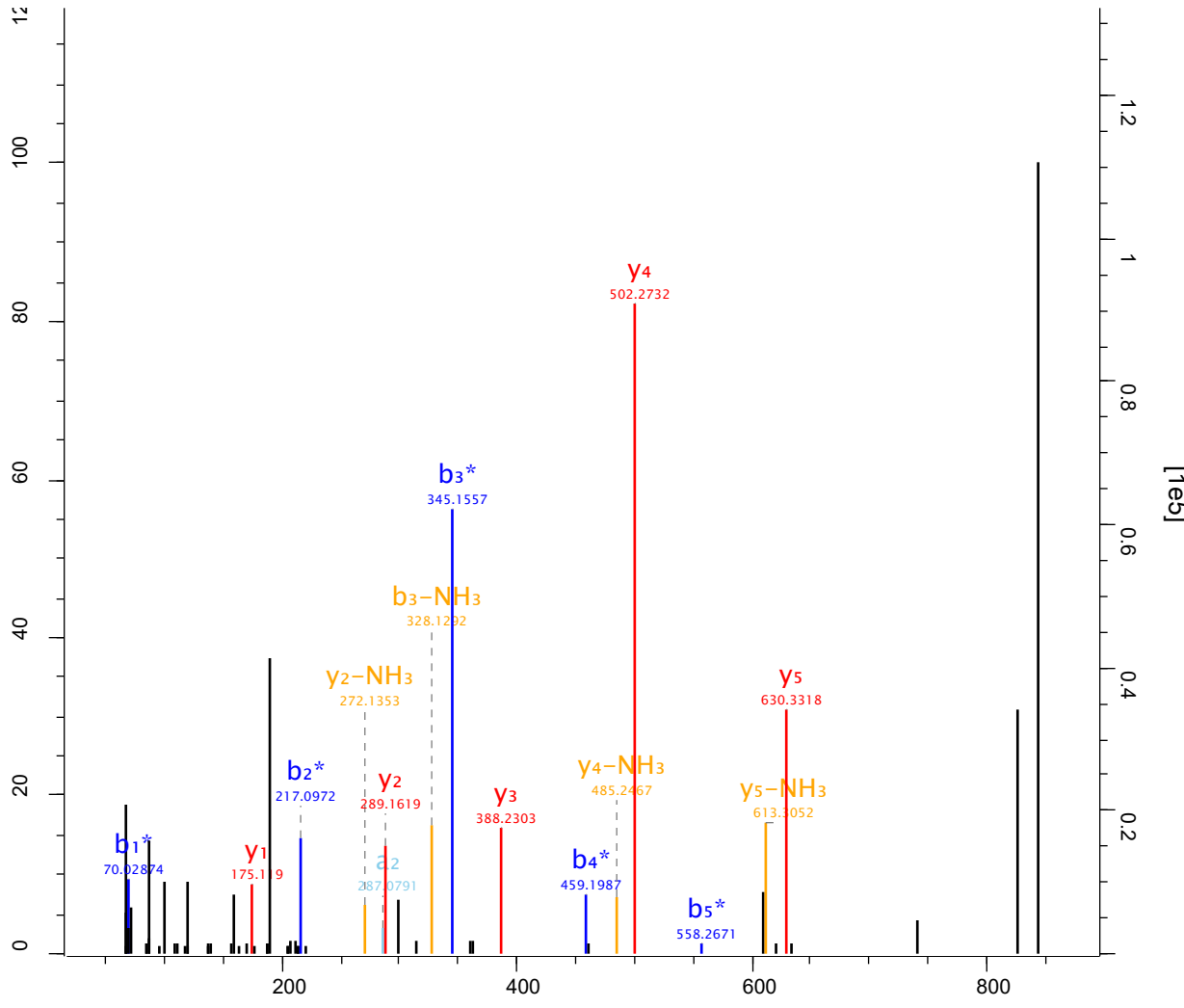
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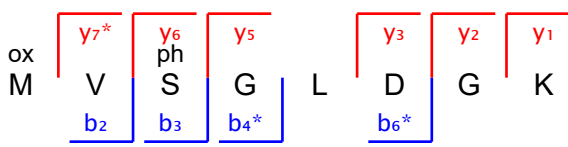
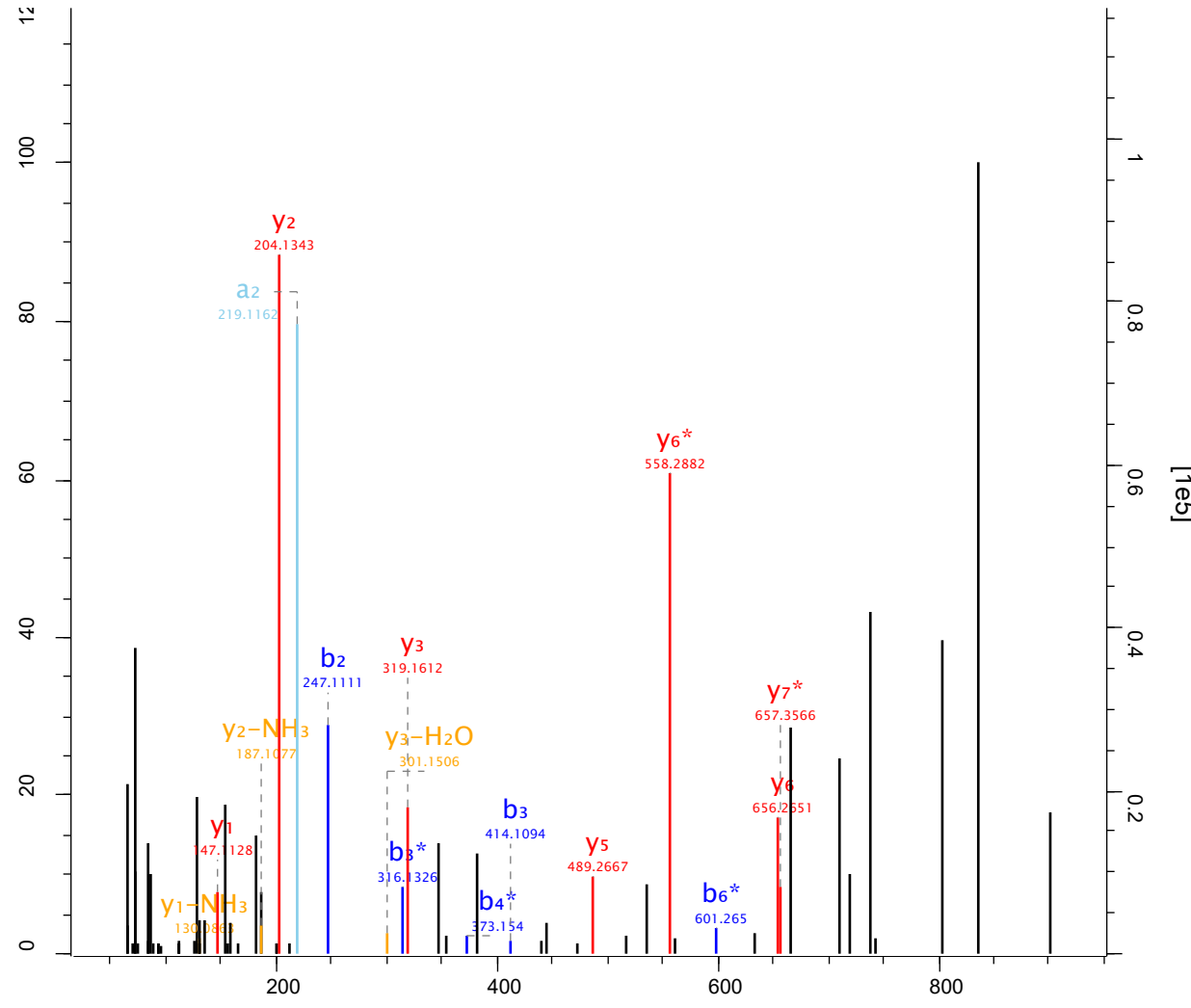
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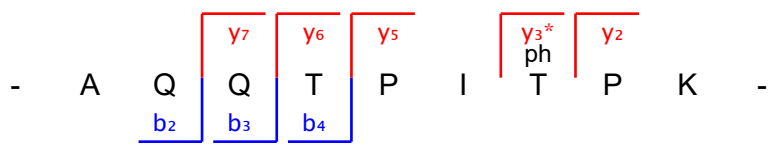
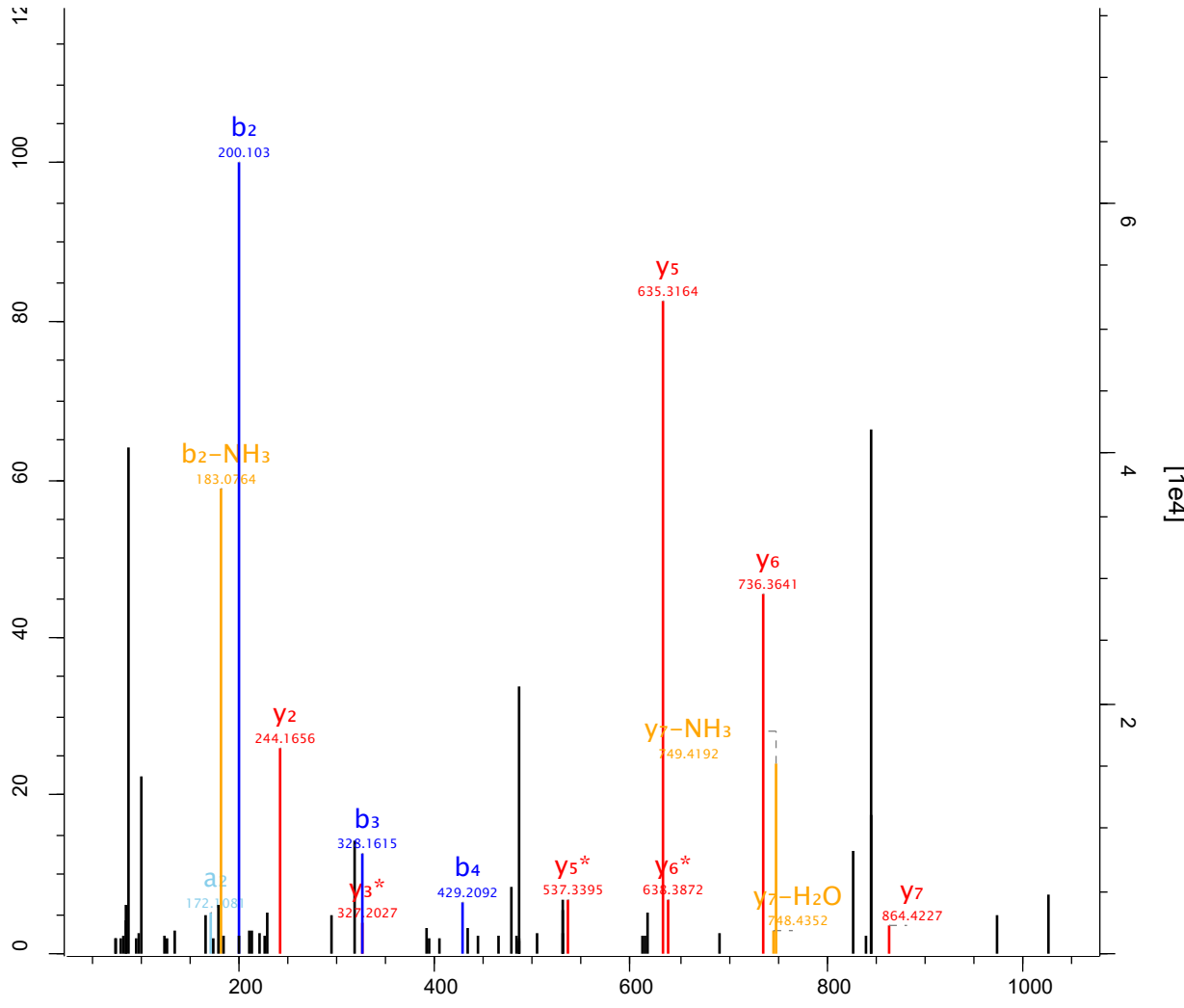
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sys_15_1	5107	FTMS; HCD	108.74	472.7



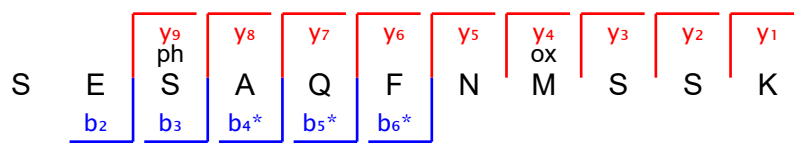
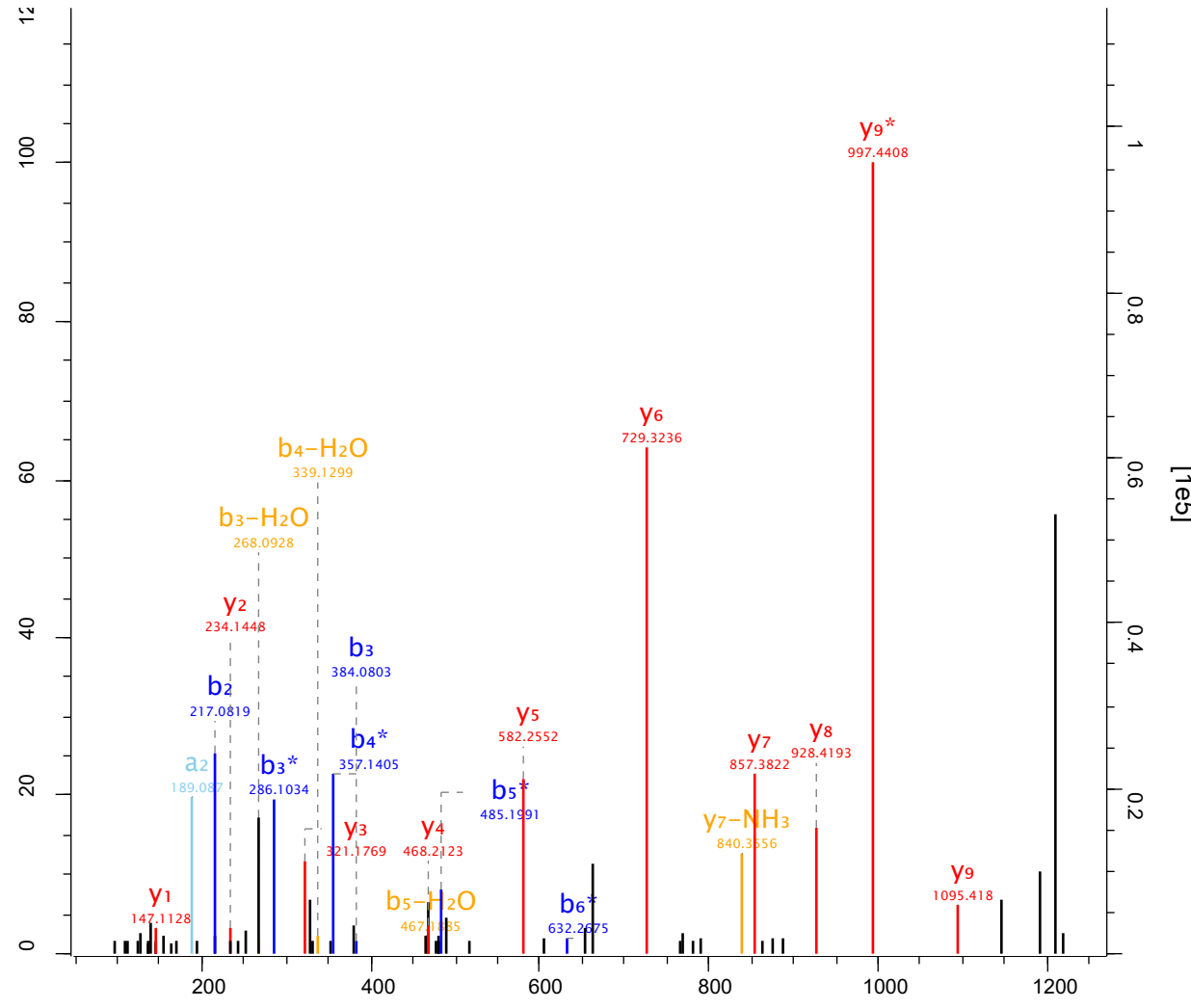
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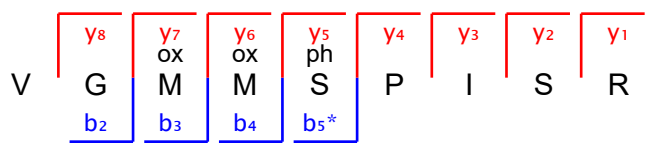
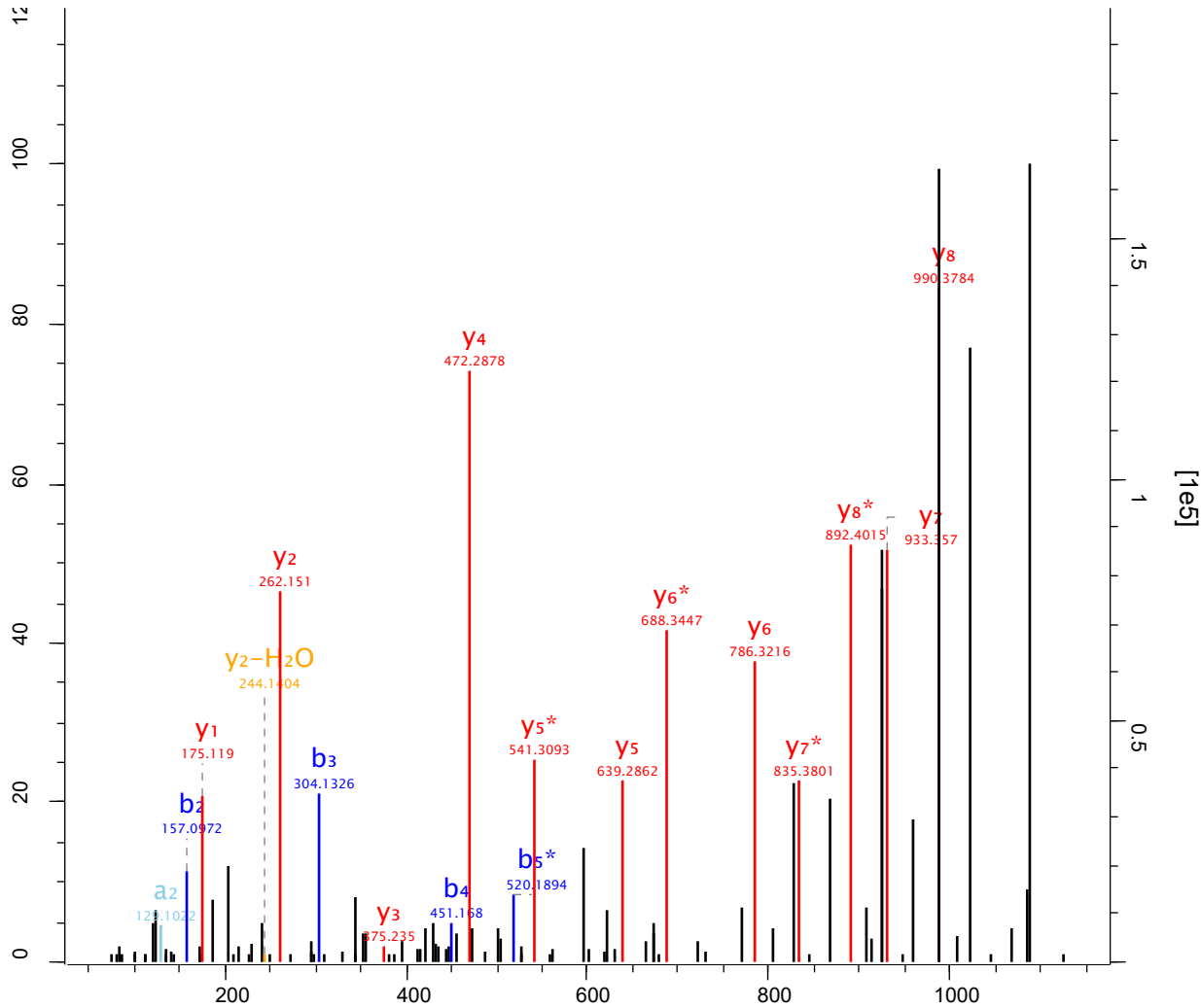
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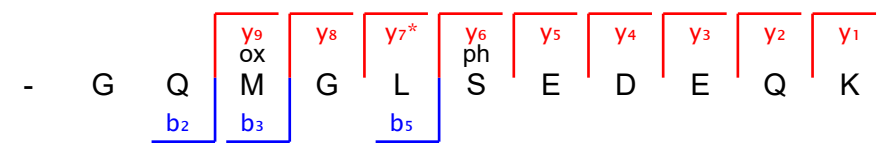
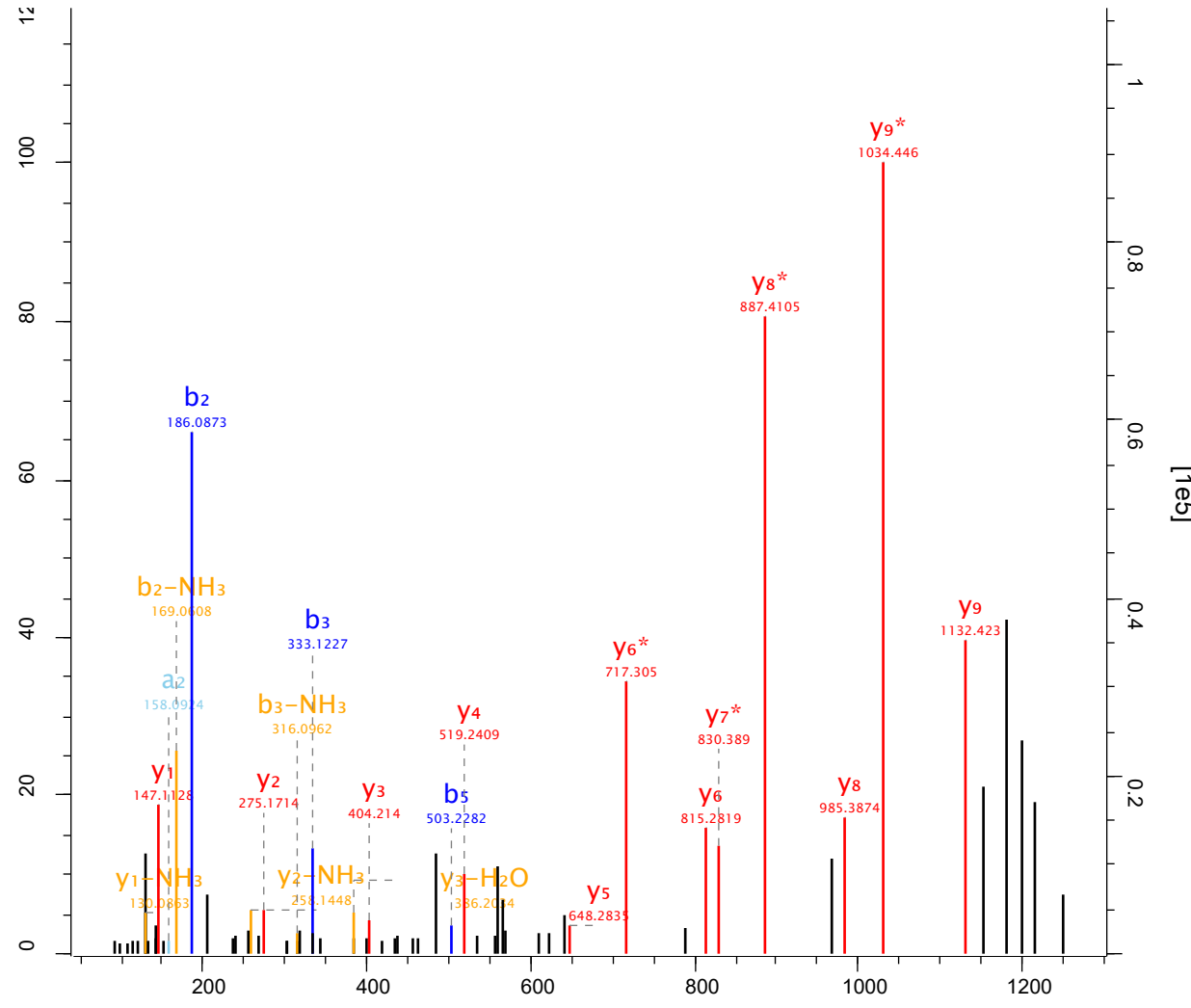
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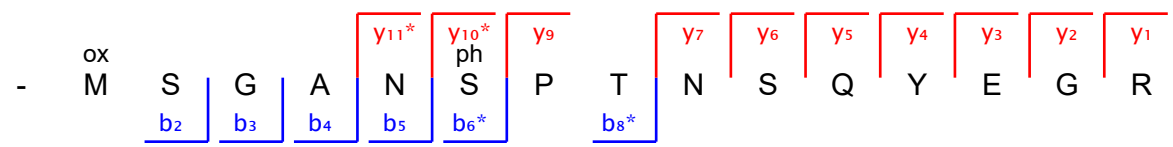
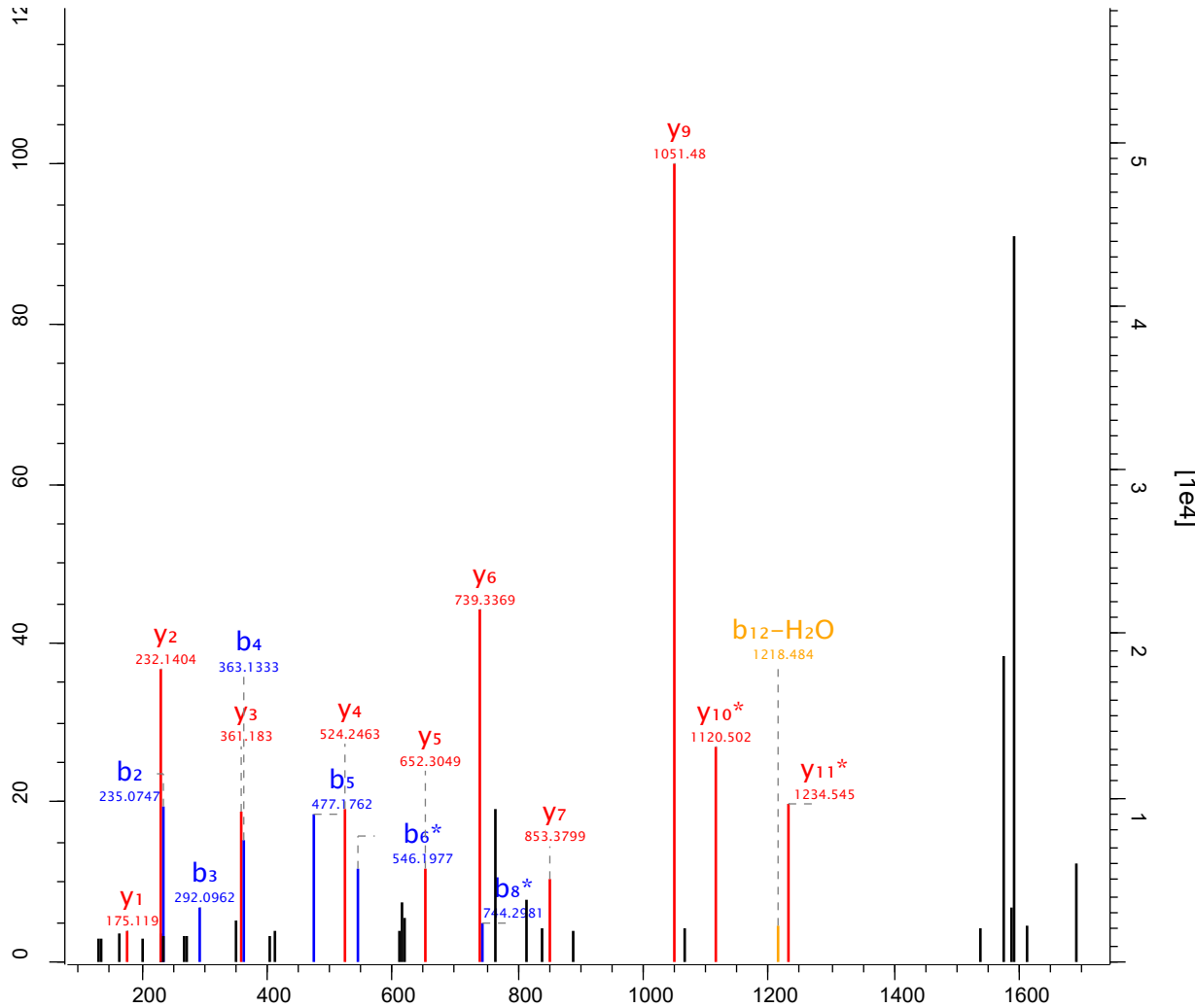
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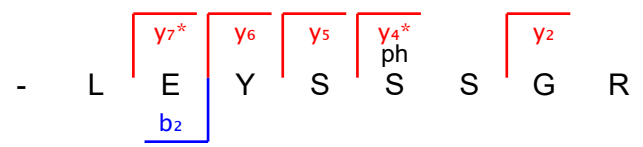
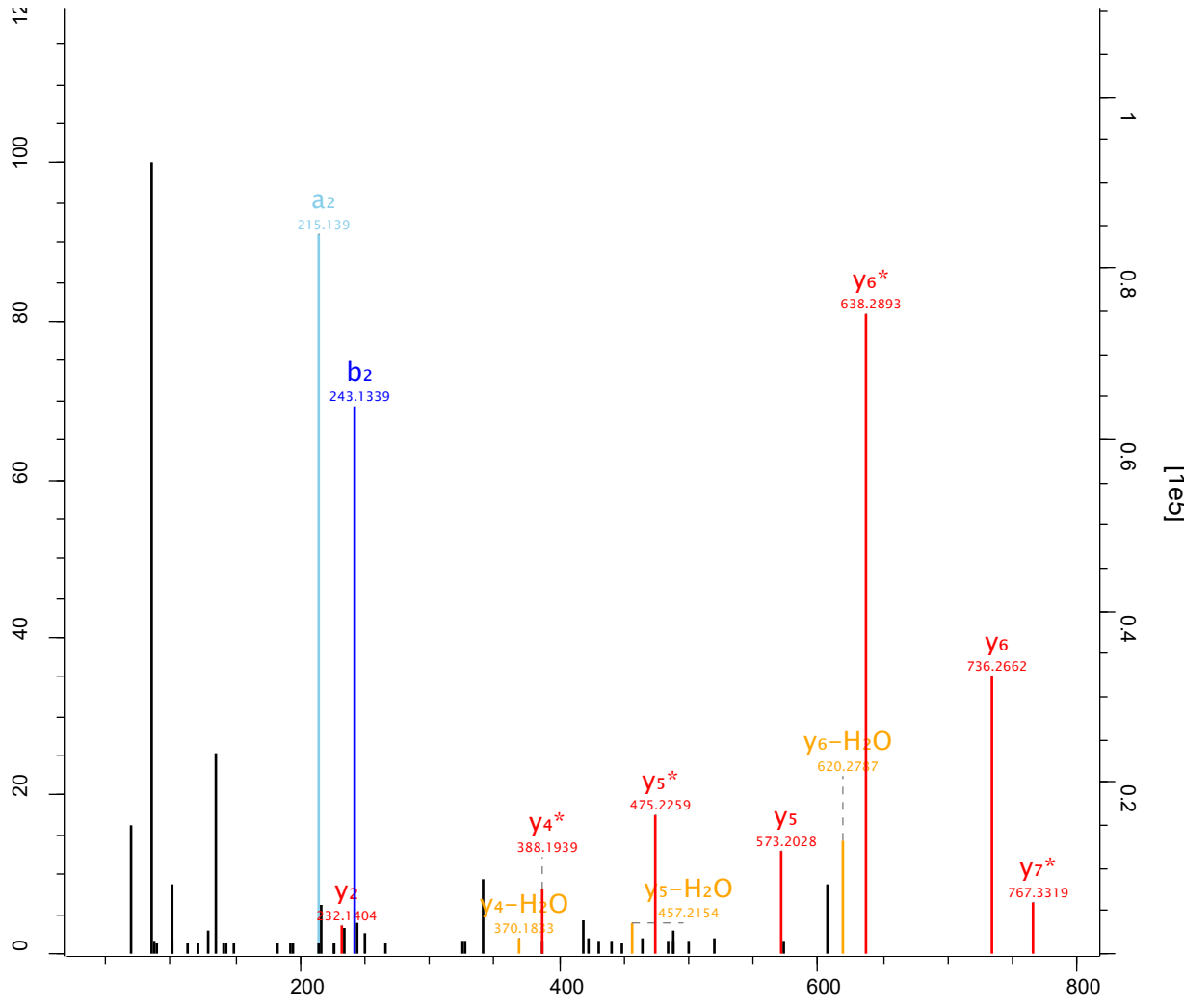
Raw file Scan Method Score m/z
 sys_15_1 5233 FTMS; HCD 102.52 659.25



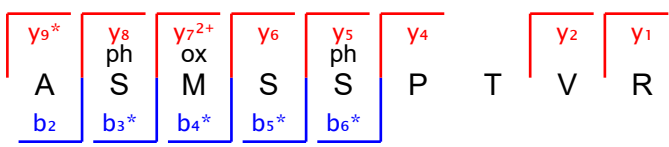
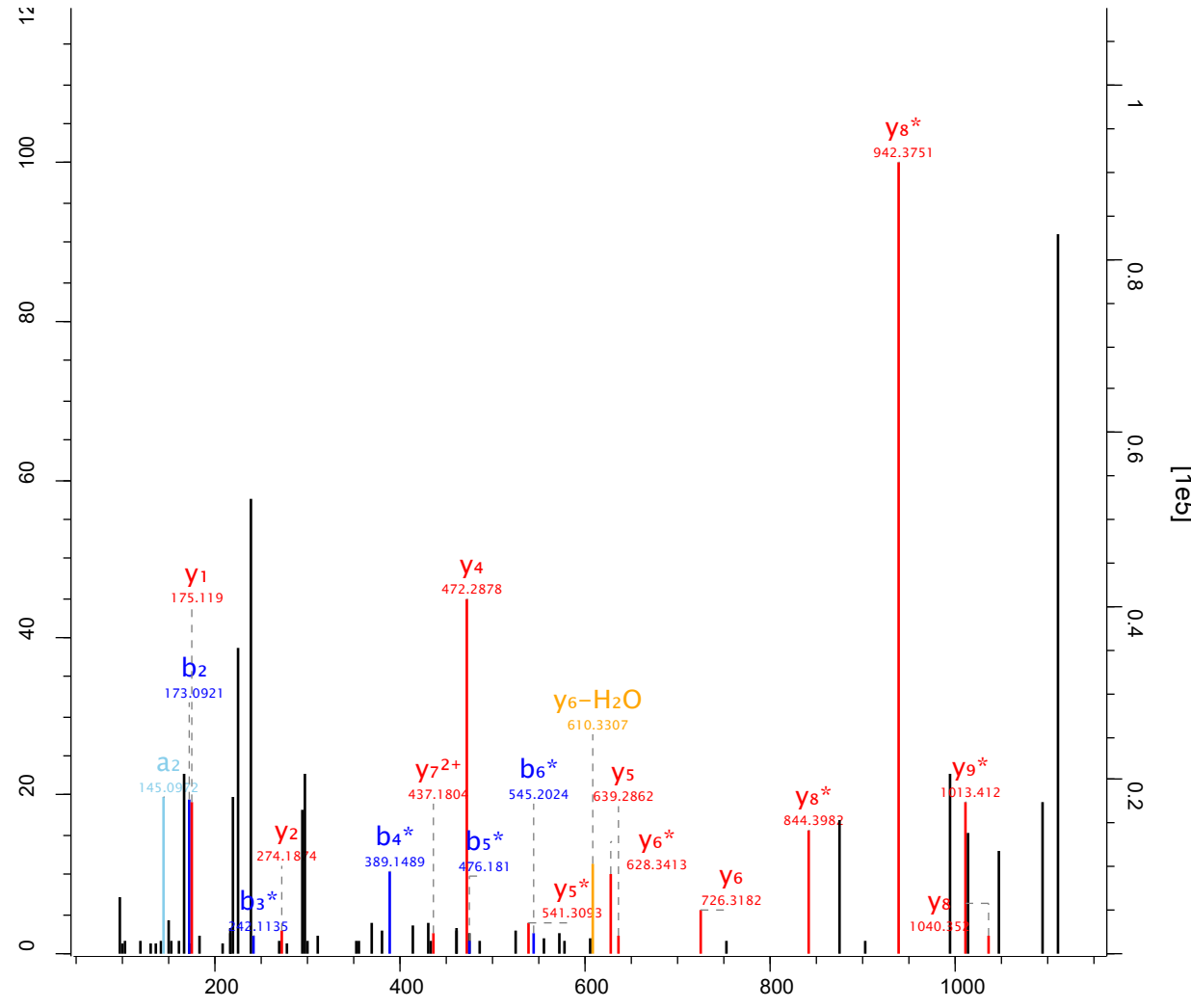
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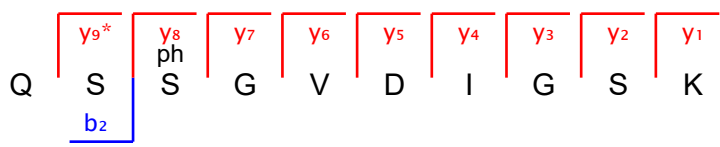
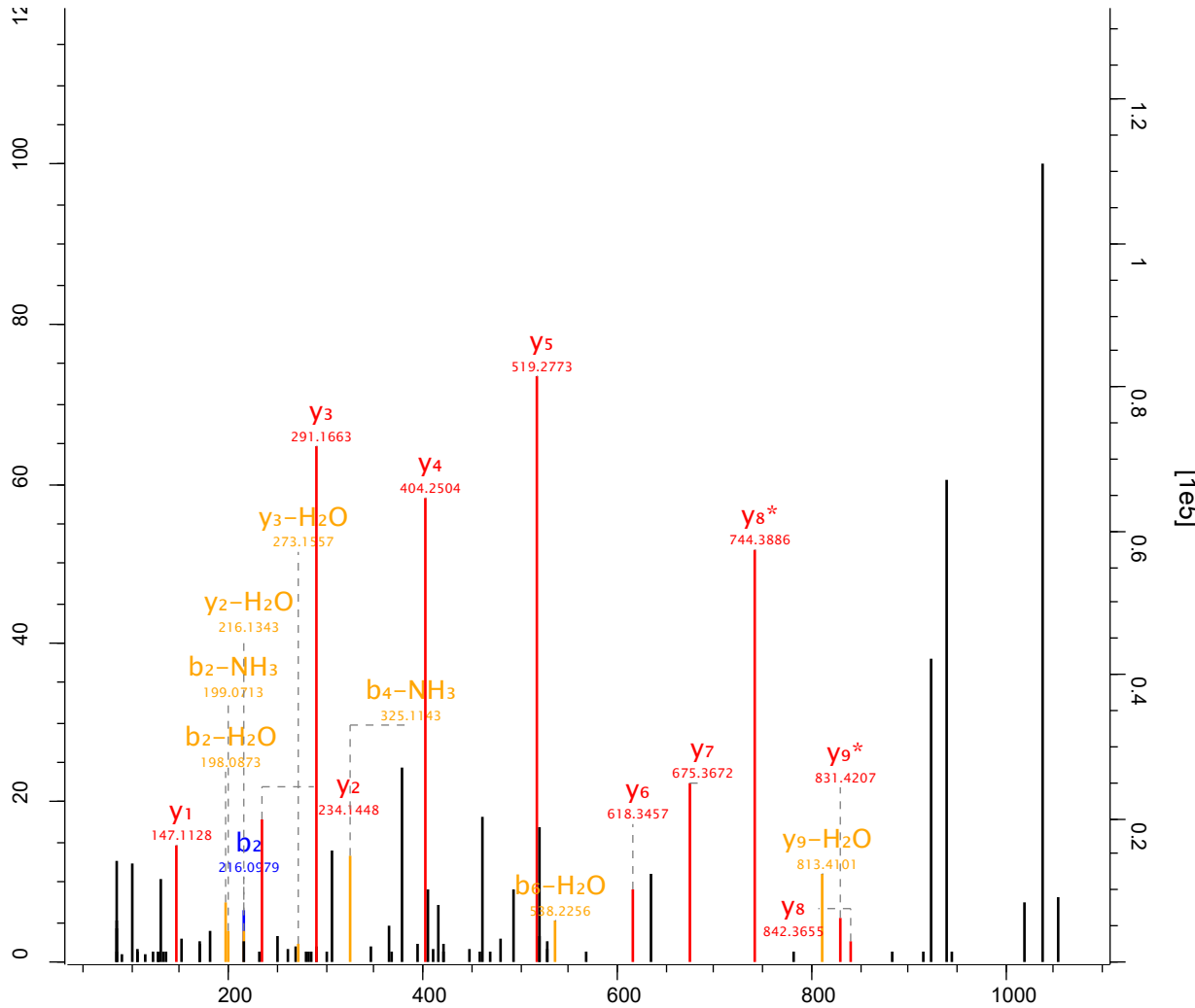
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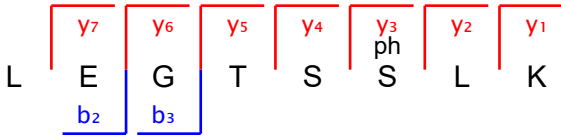
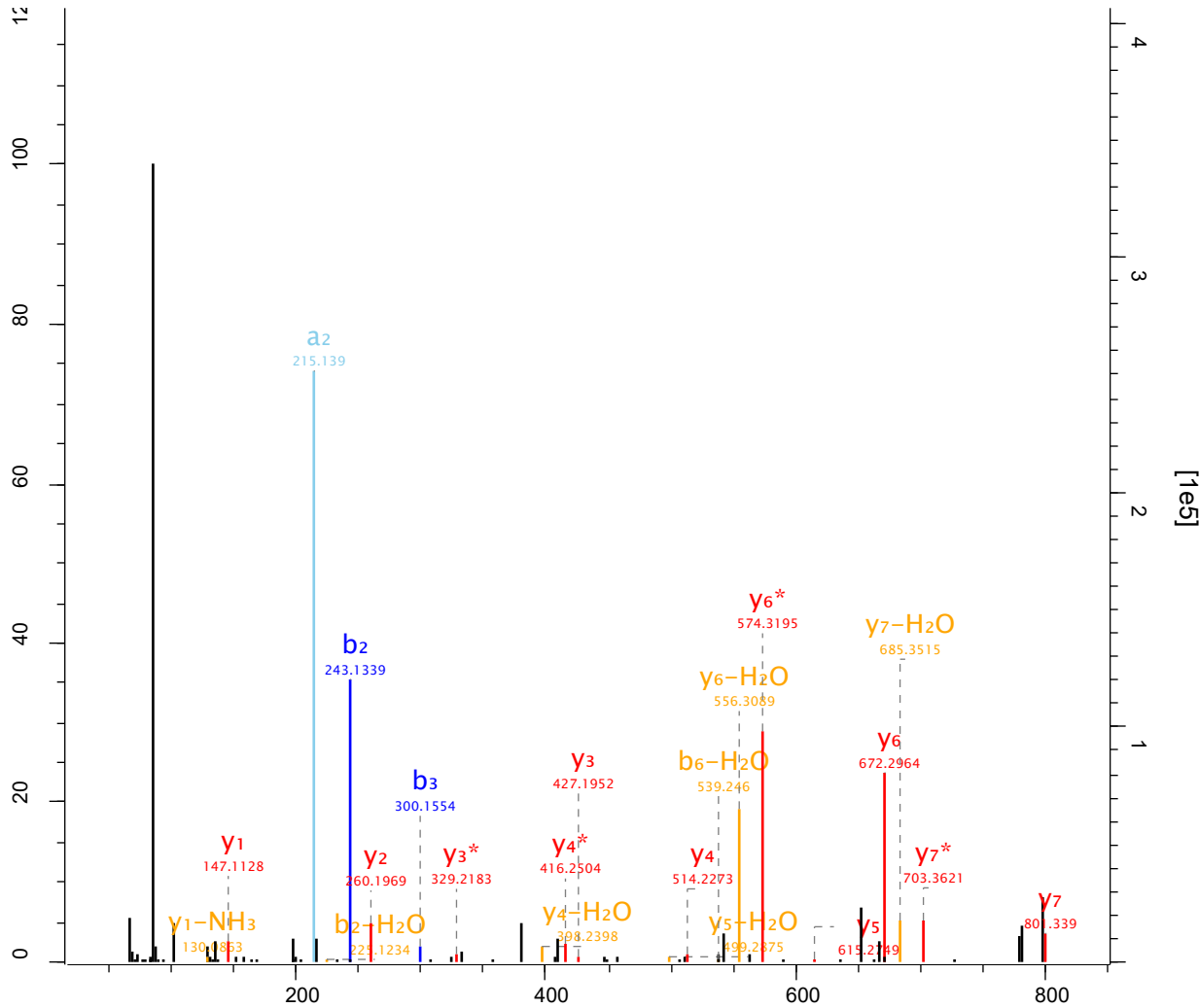
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sys_15_1	5390	FTMS; HCD	61.44	606.72



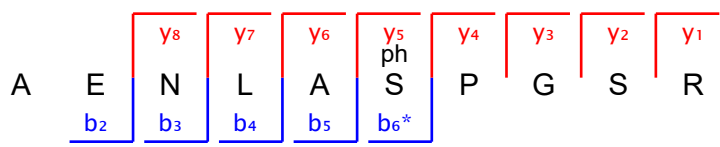
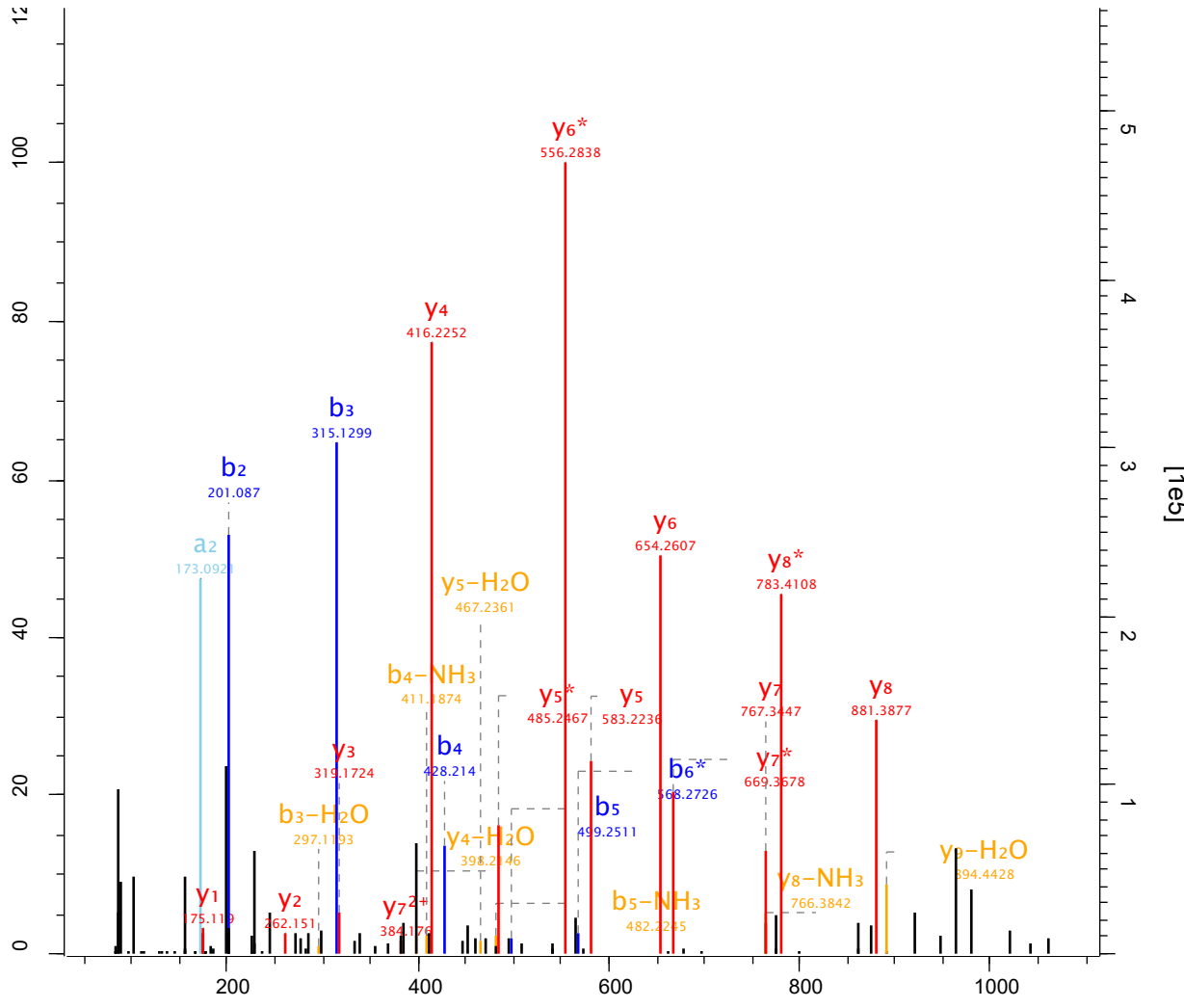
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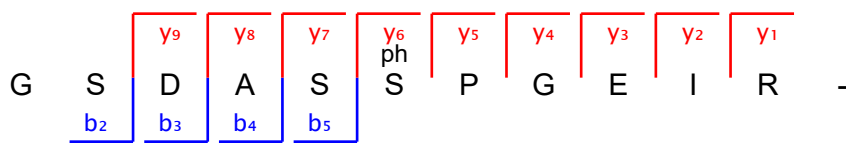
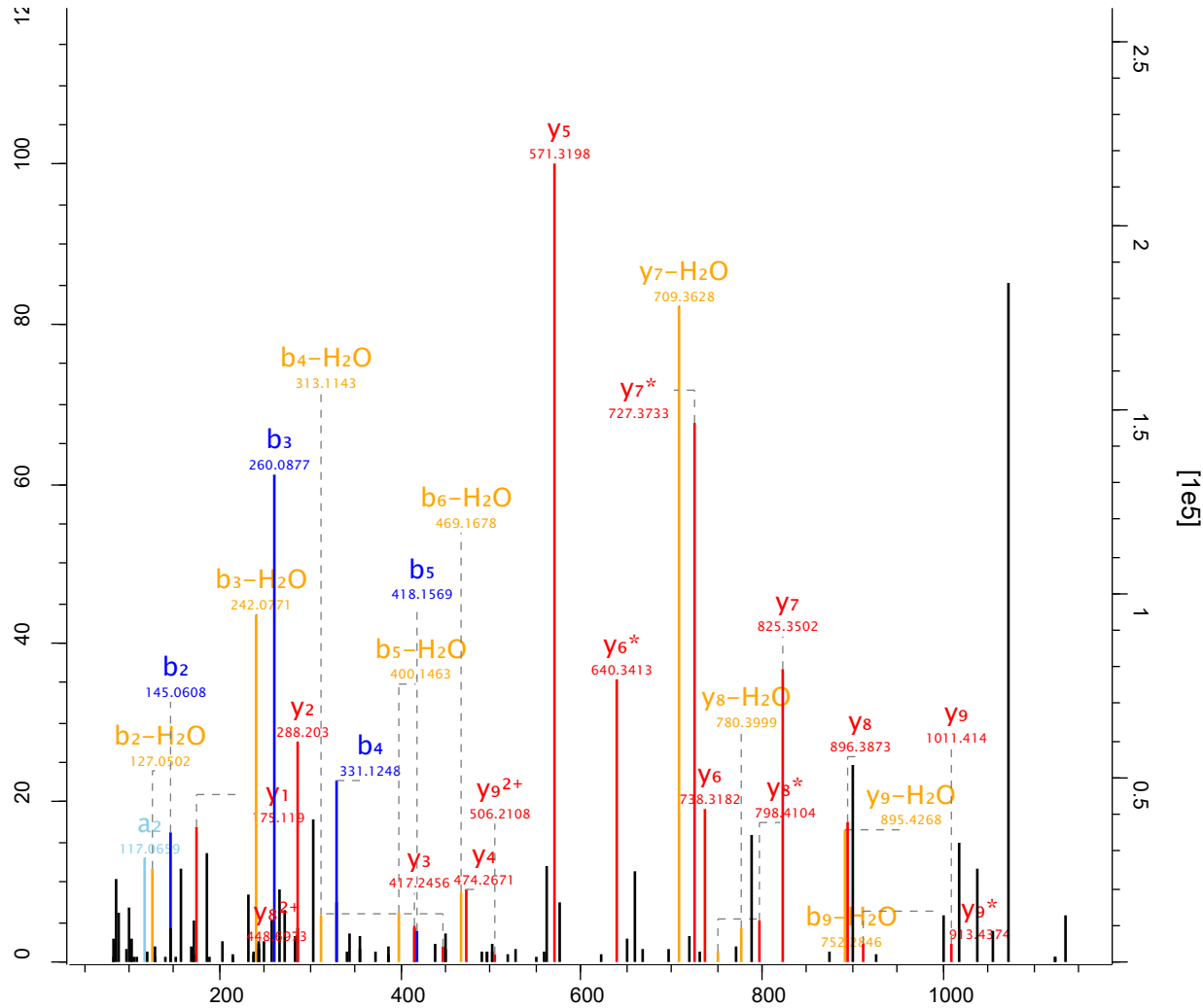
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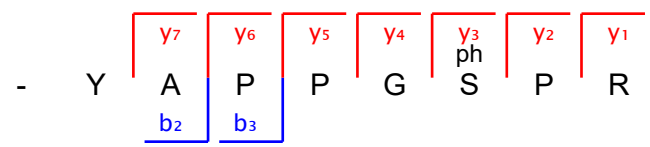
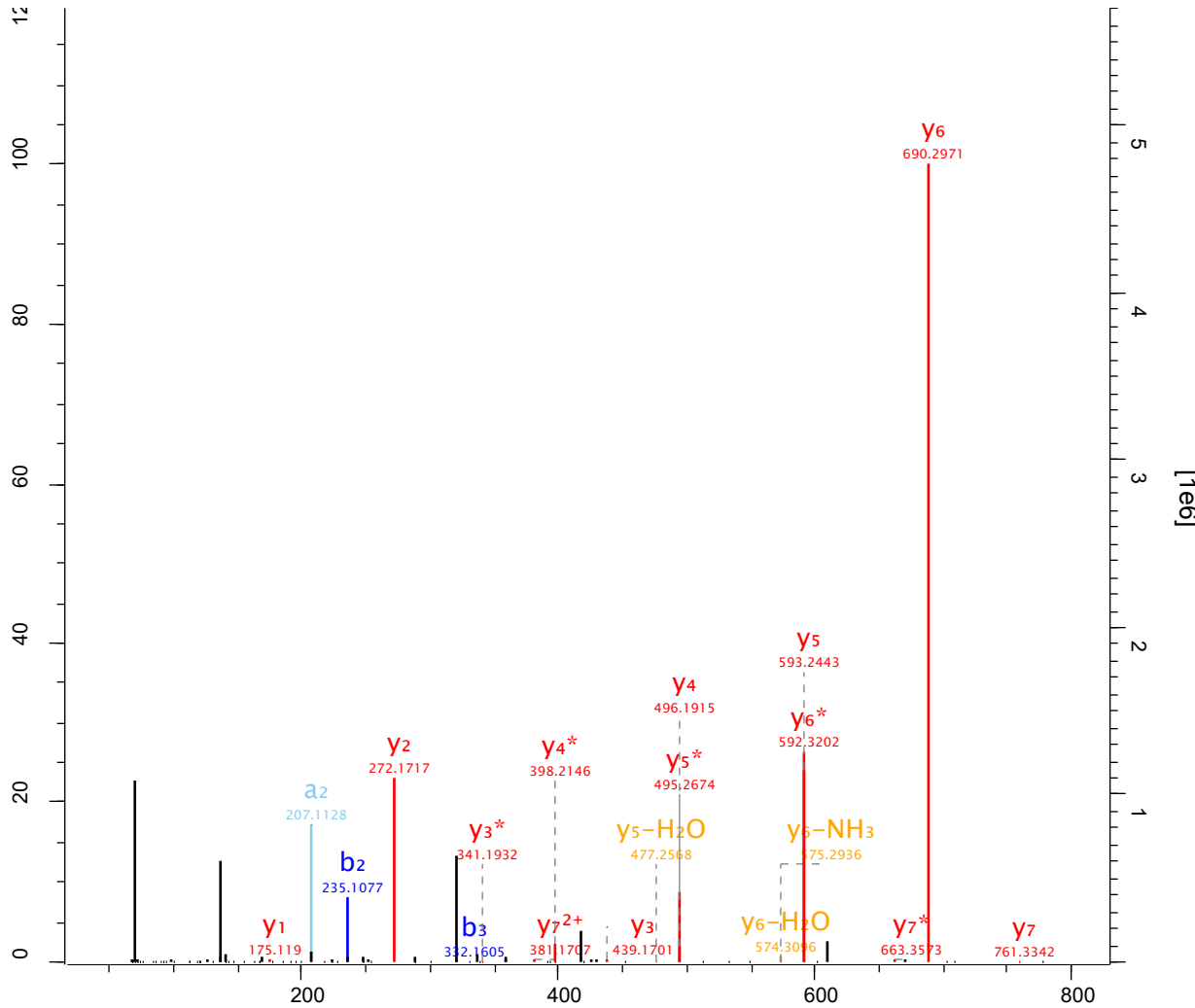
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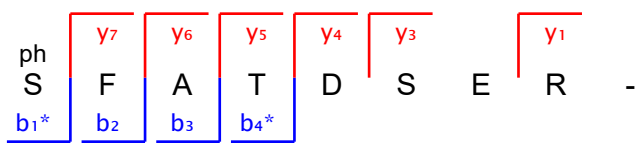
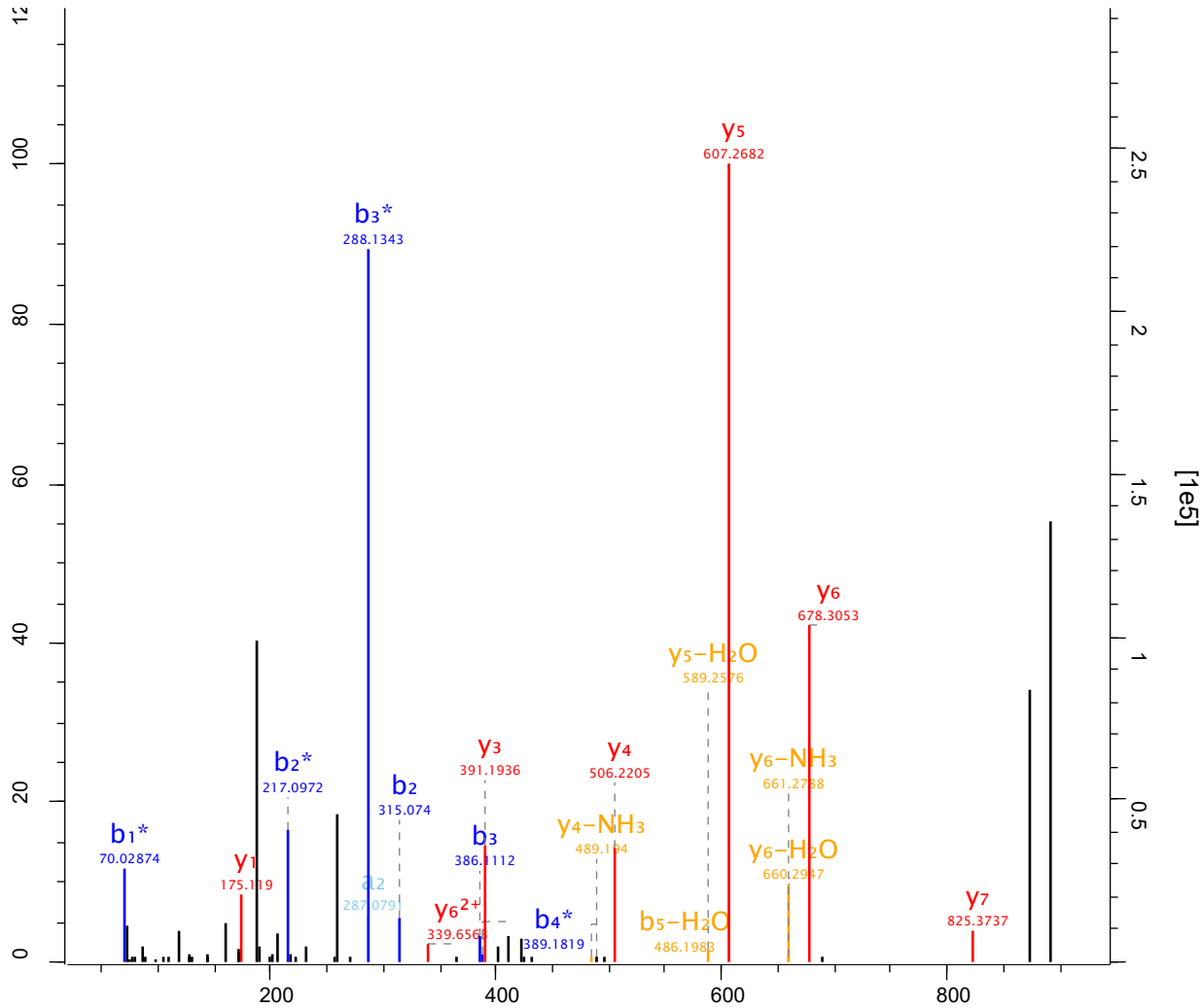
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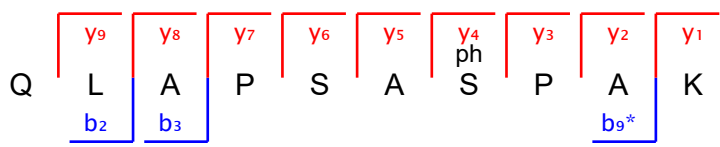
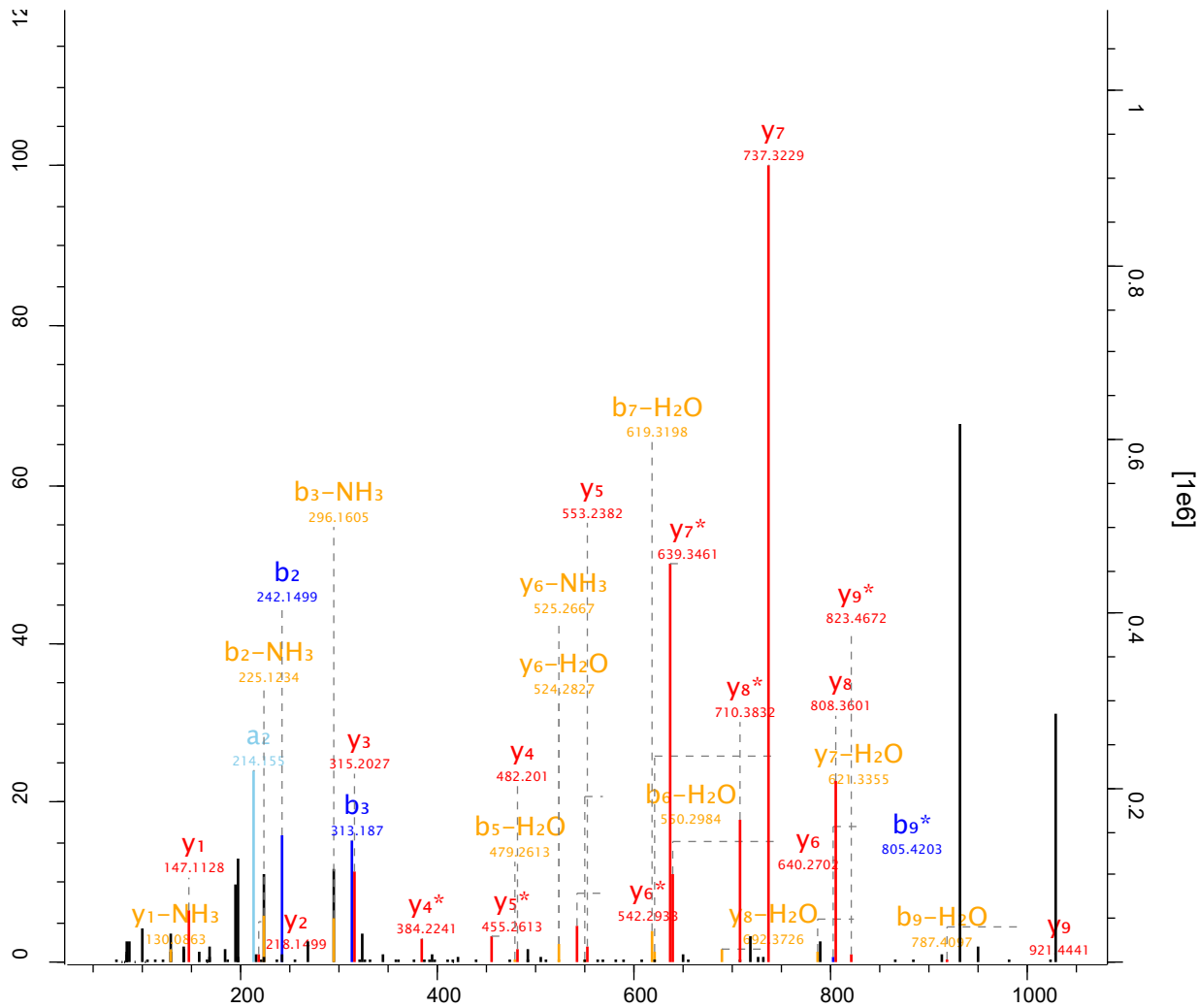
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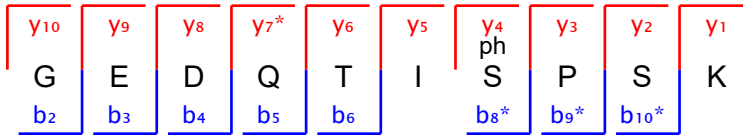
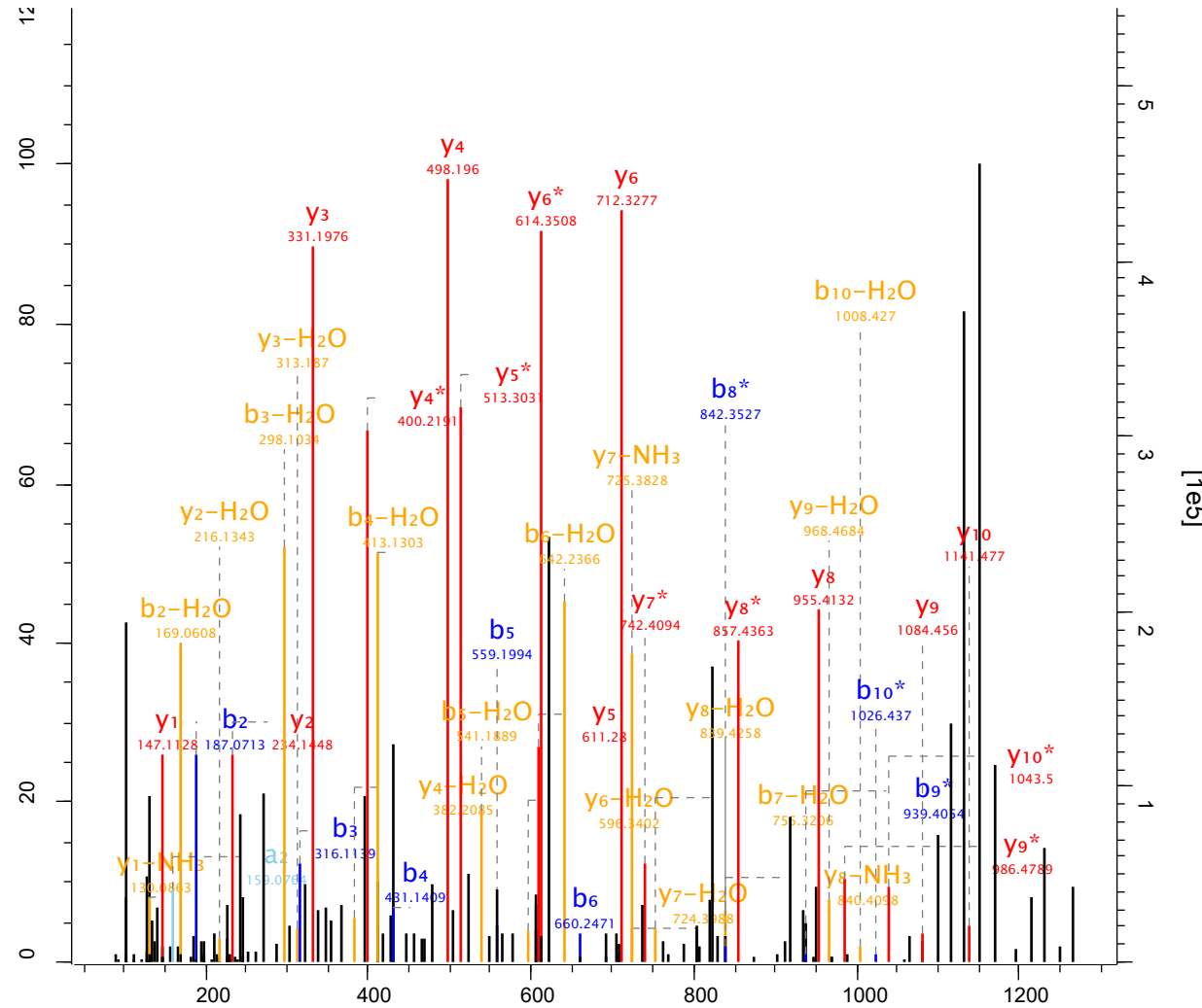
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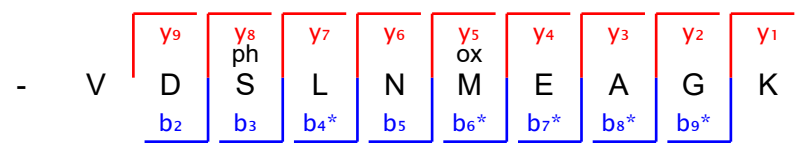
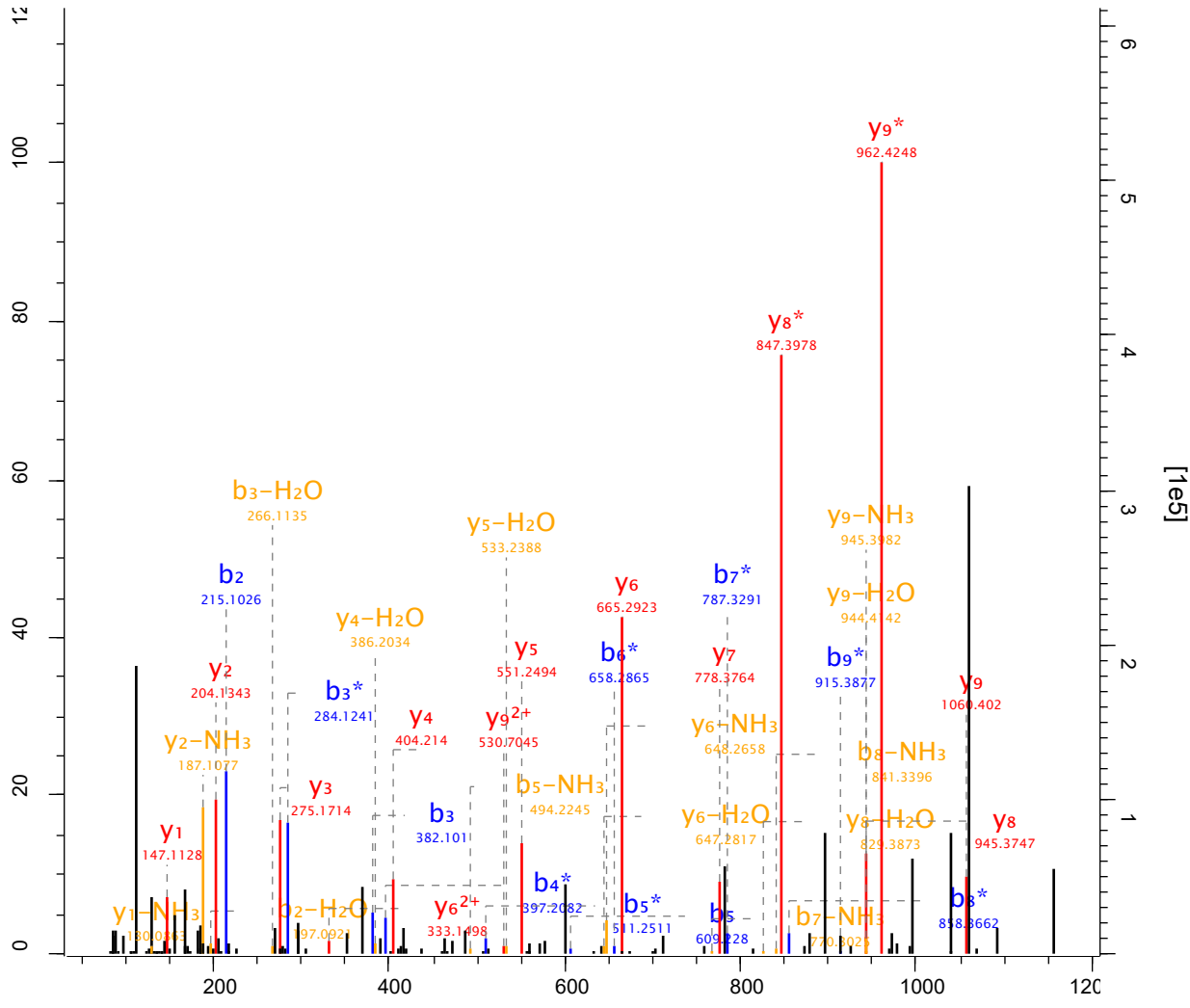
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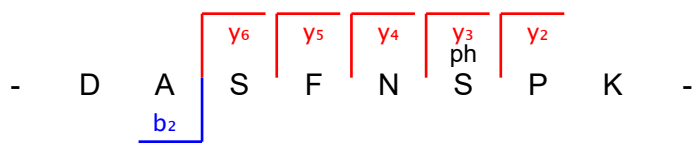
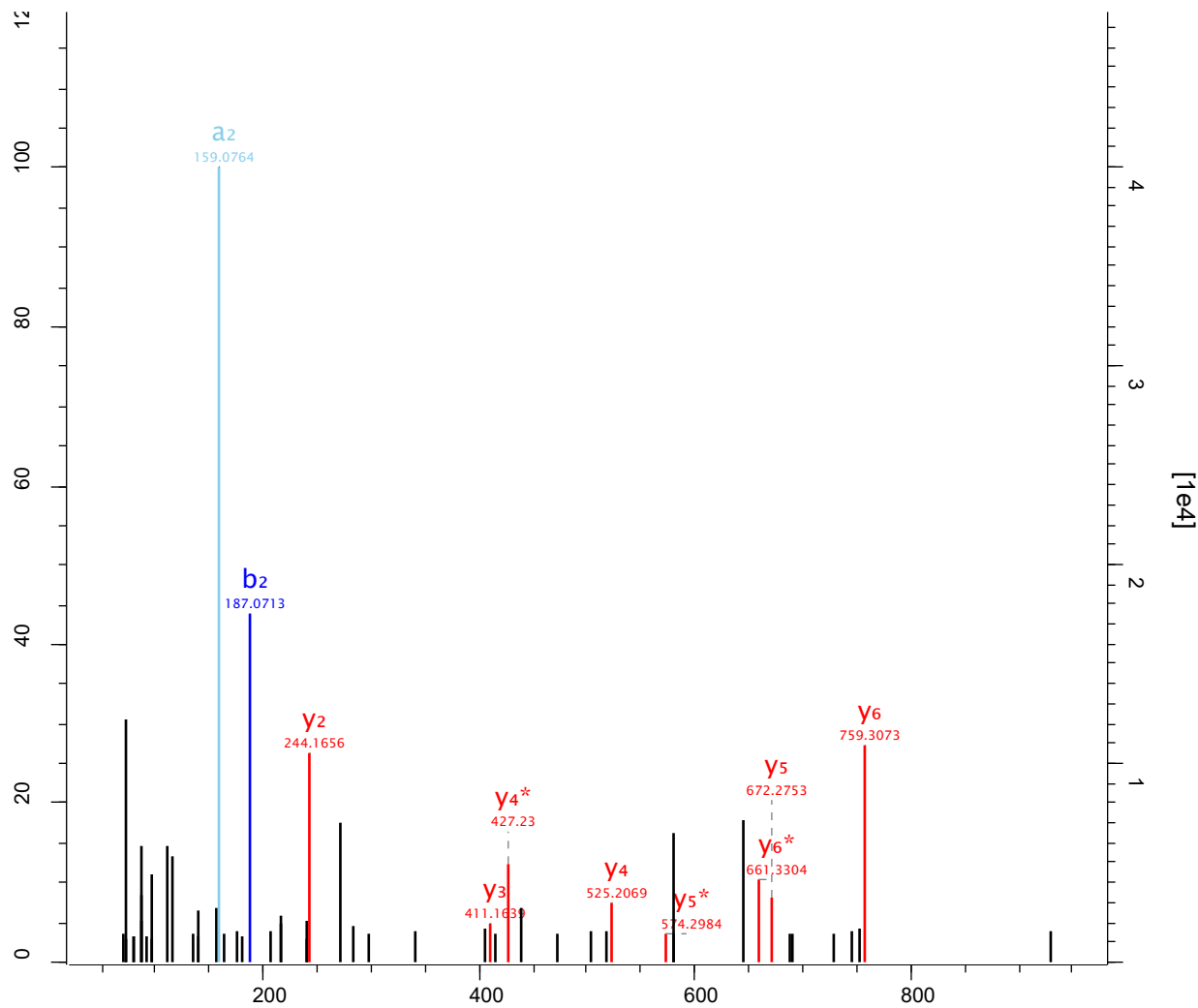
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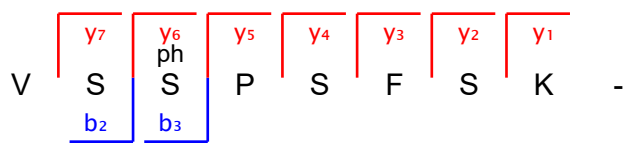
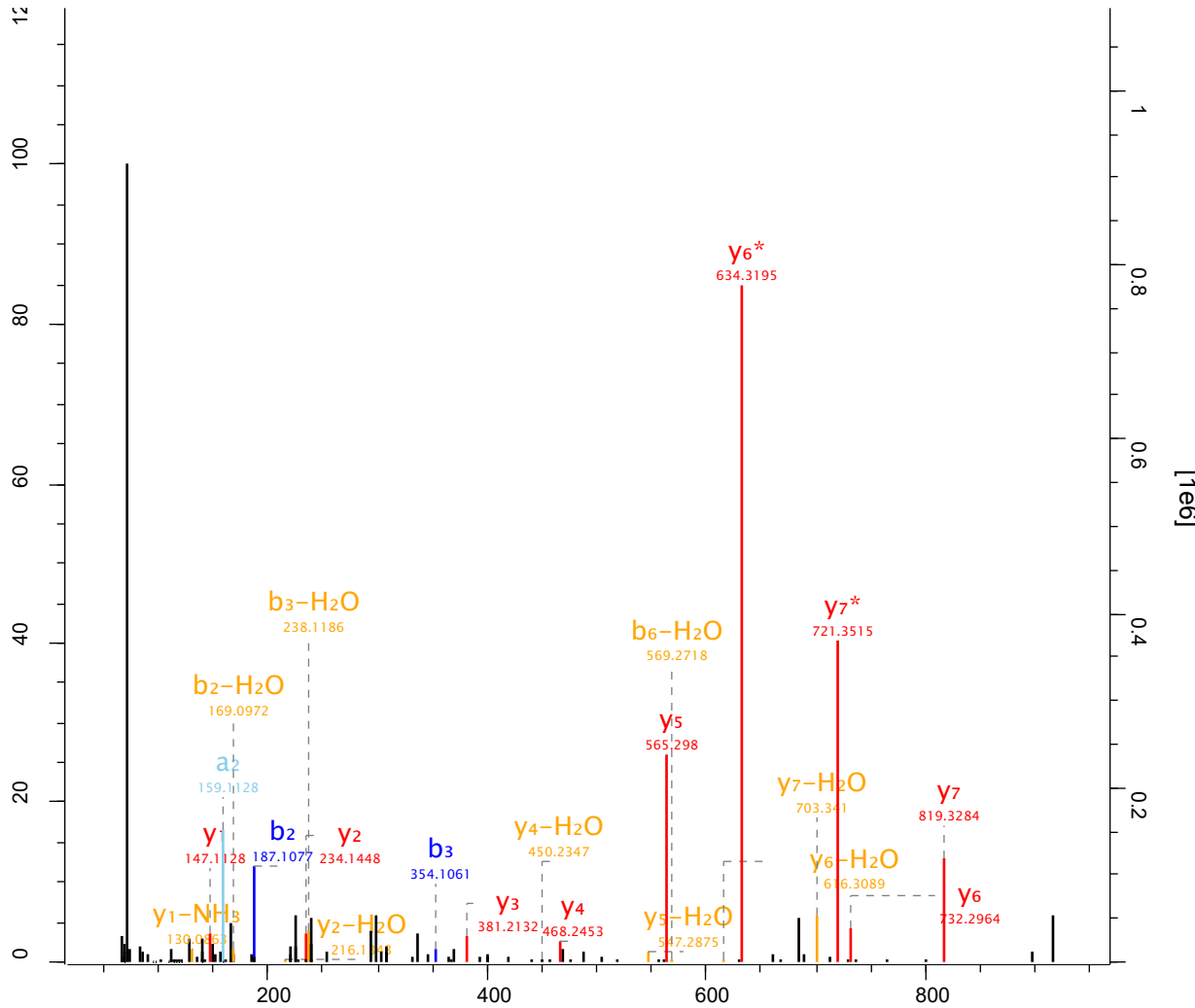
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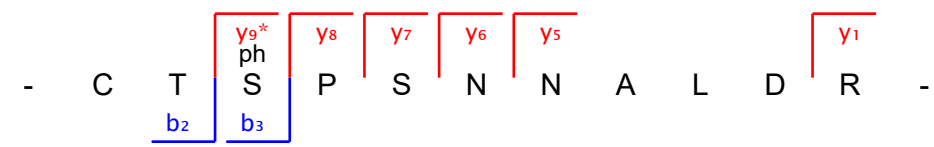
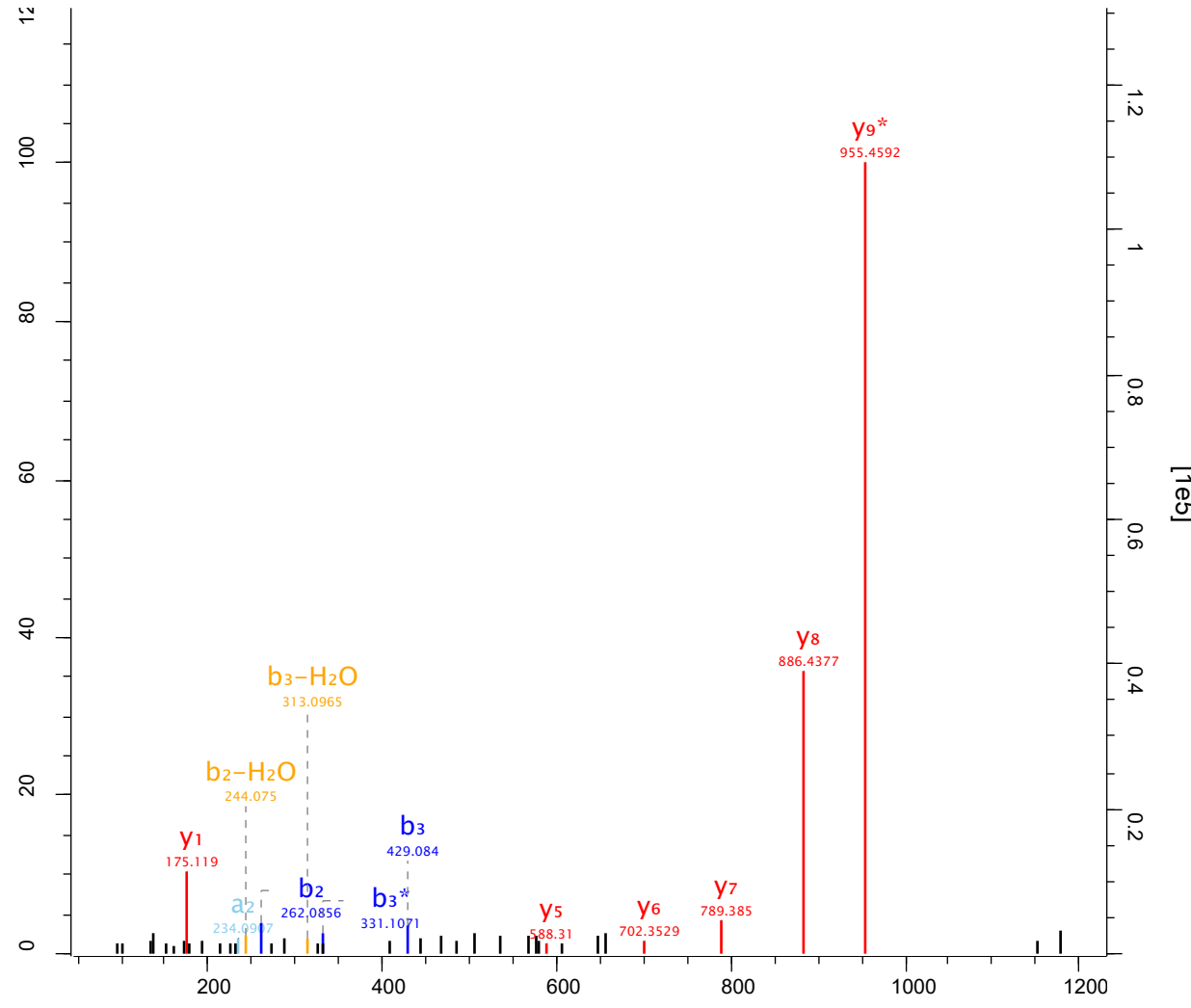
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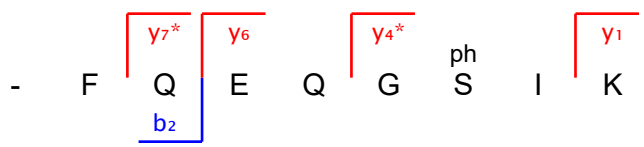
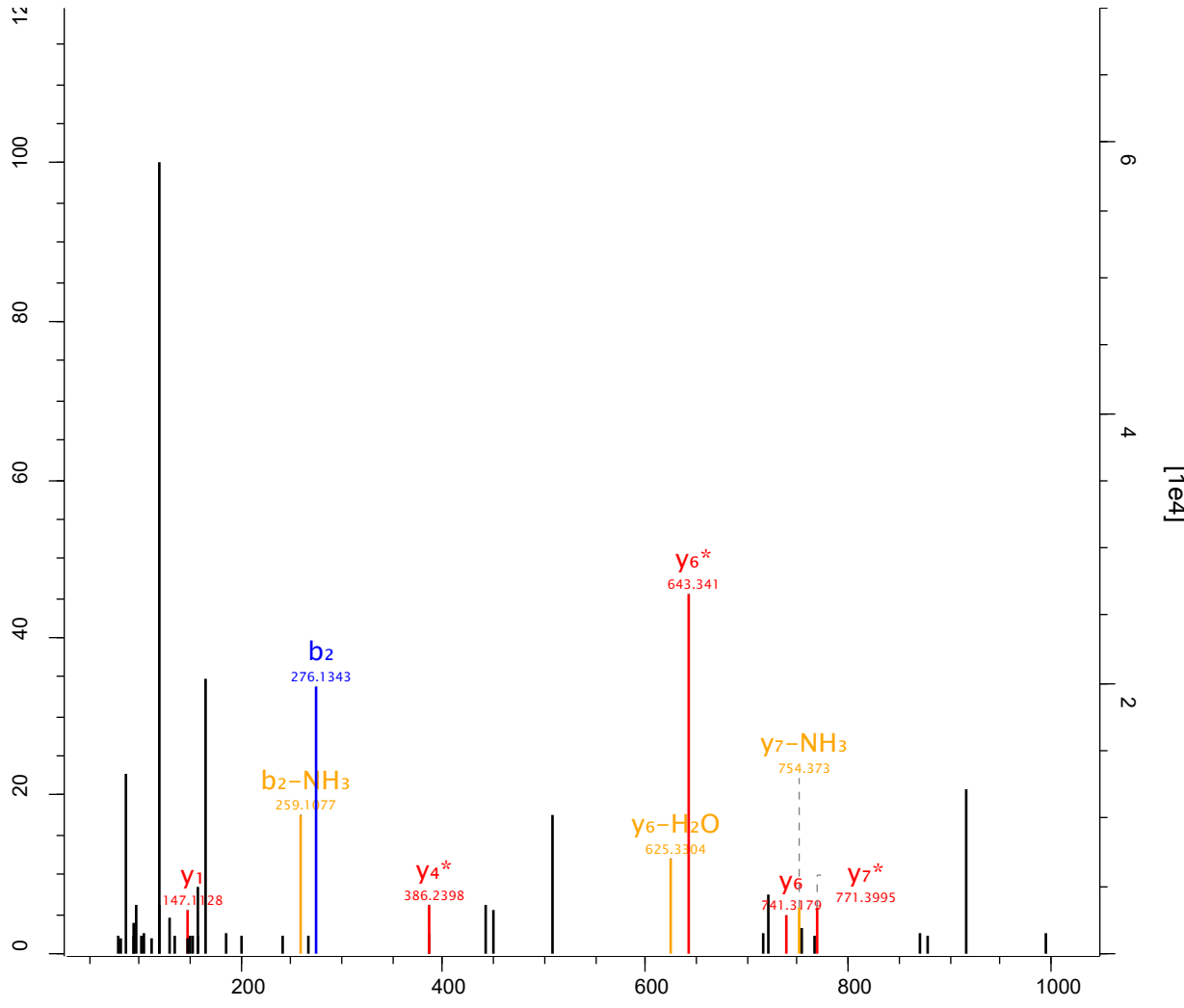
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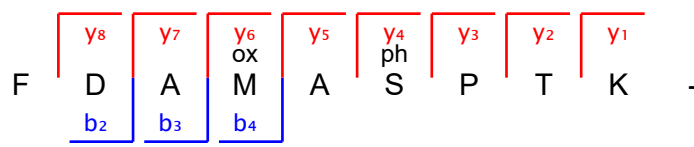
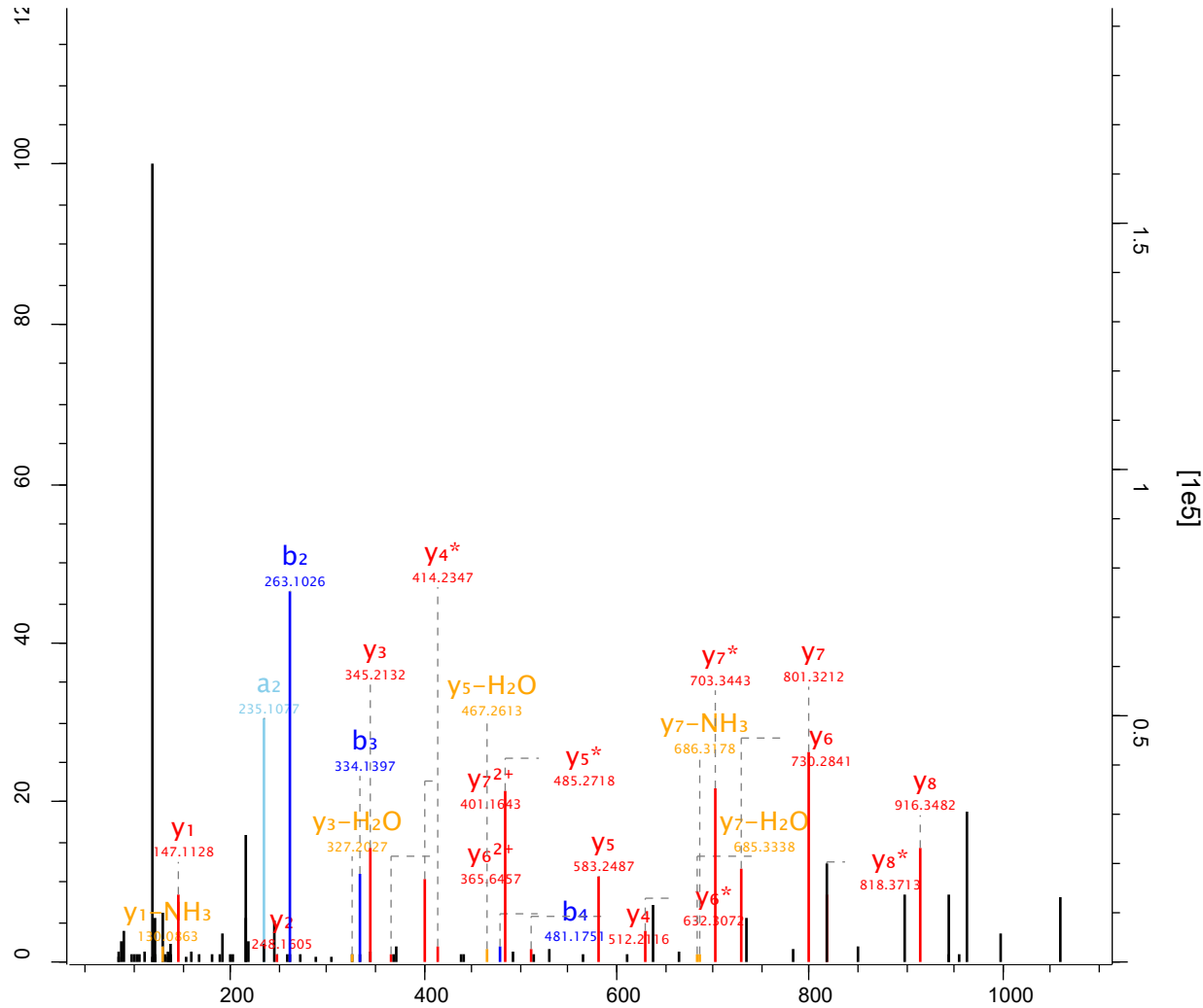
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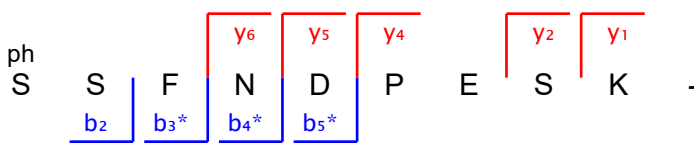
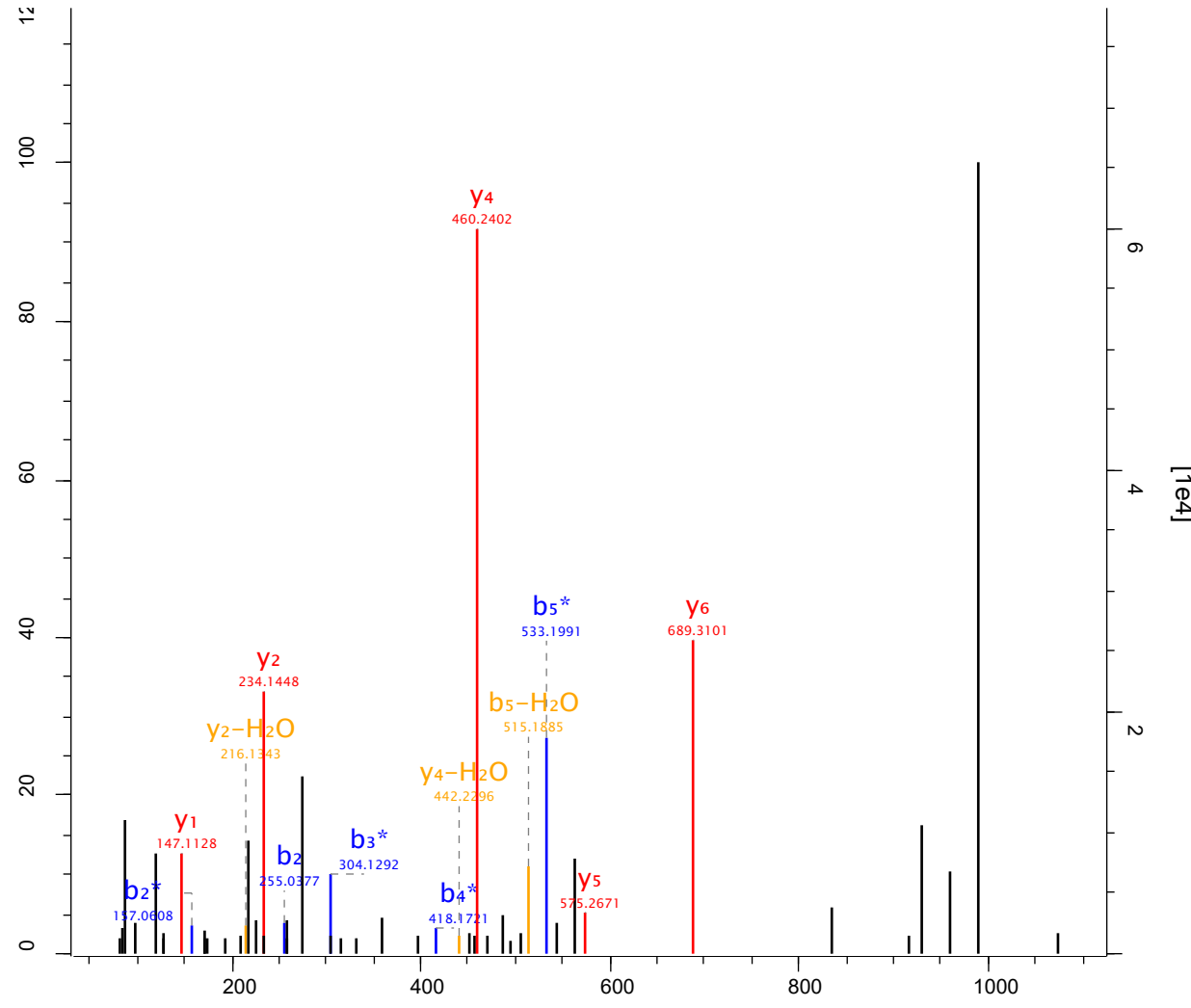
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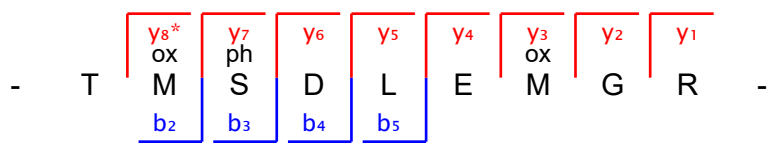
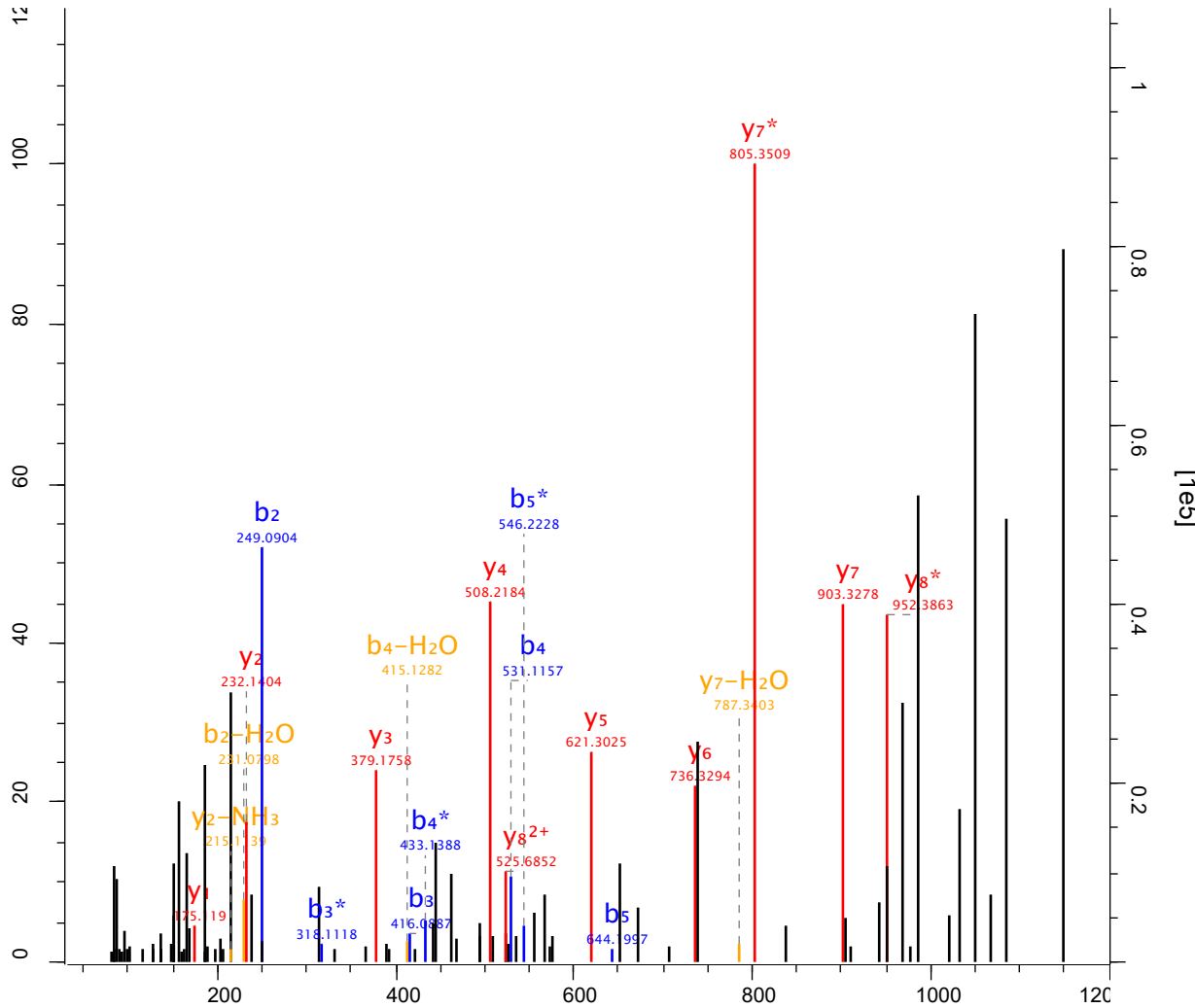
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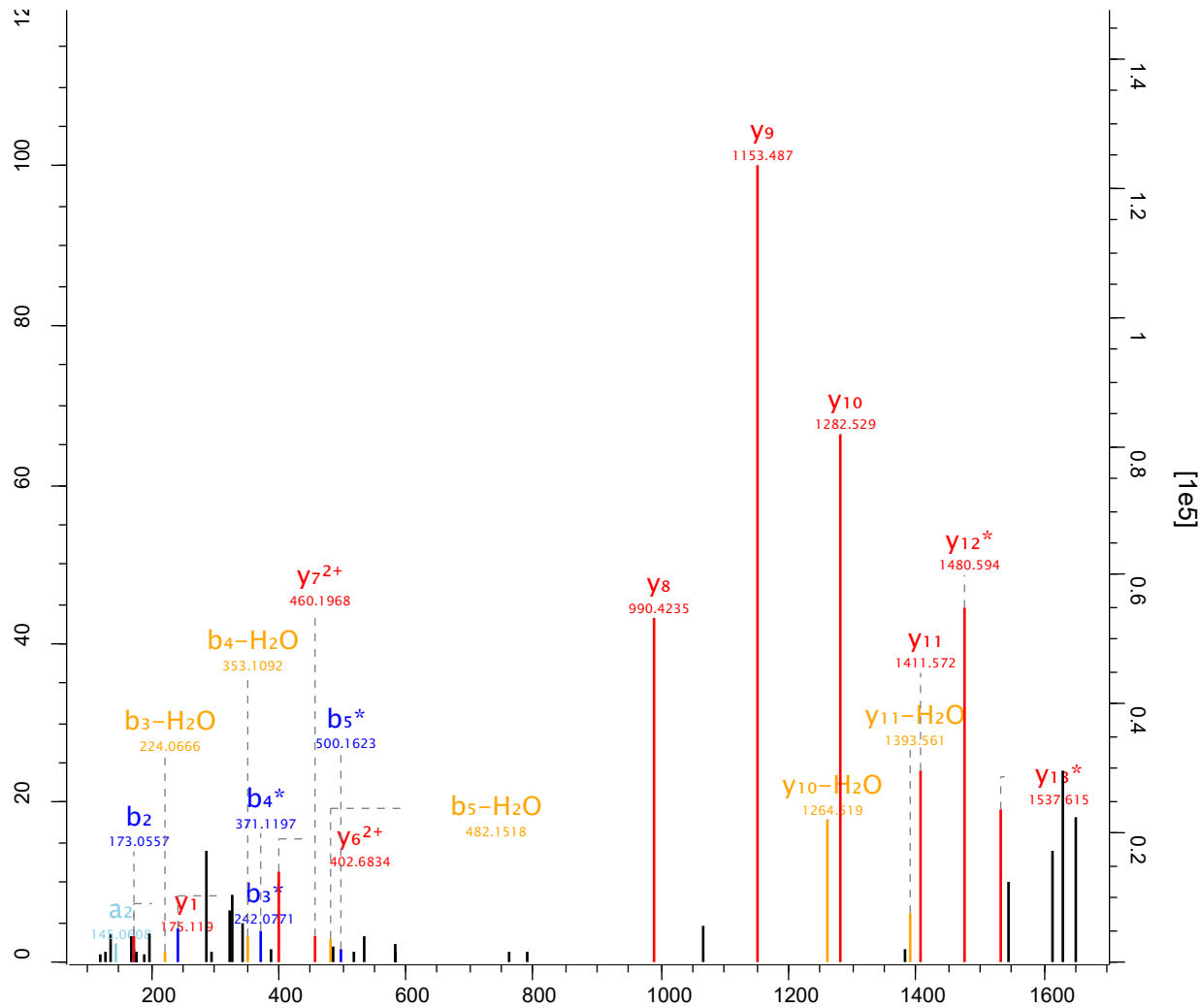
Raw file	Scan	Method	Score	m/z
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Raw file Scan Method Score m/z
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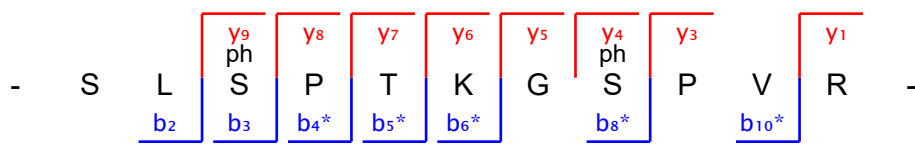
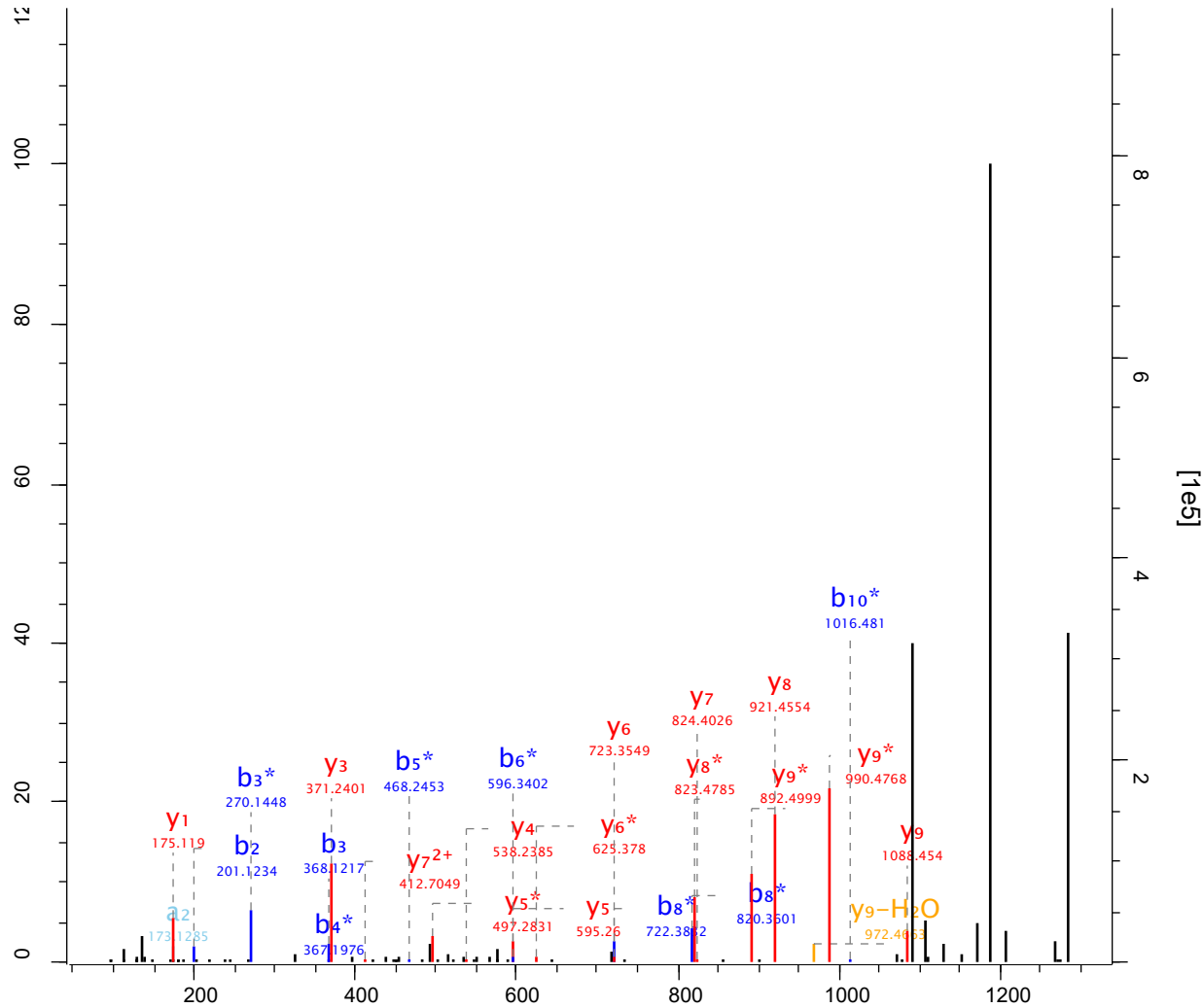
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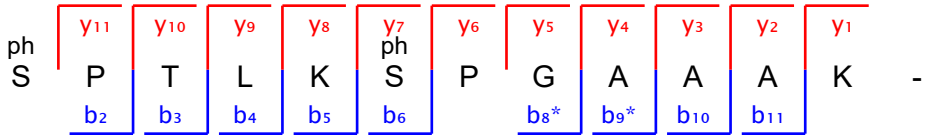
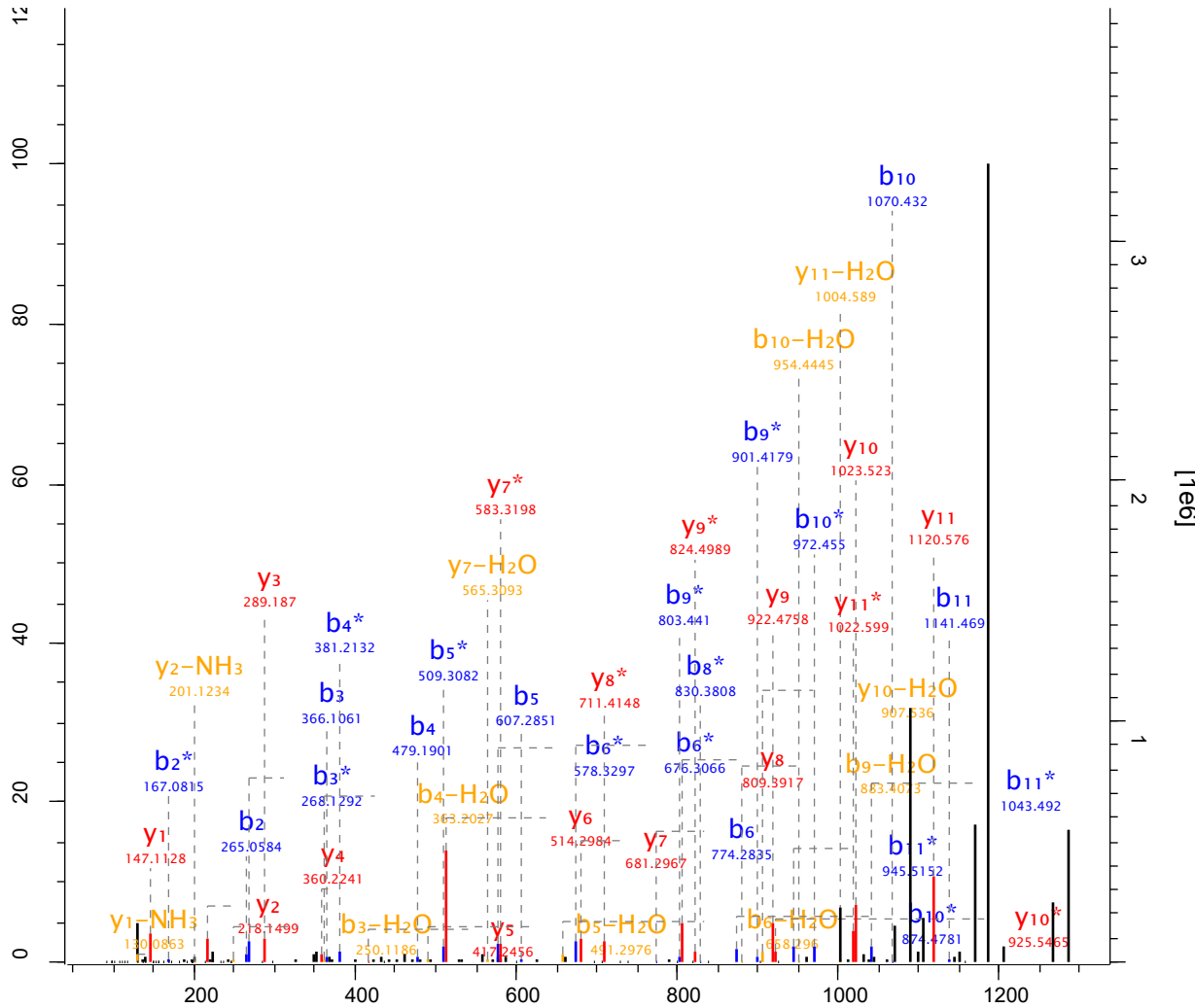
- D G S E E Y A D D N R E R -

b₂
b₃^{*}
b₄^{*}
b₅^{*}
y₁₃^{*}
y₁₂^{*}
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y₉
y₈
y₇²⁺
y₆²⁺
y₁

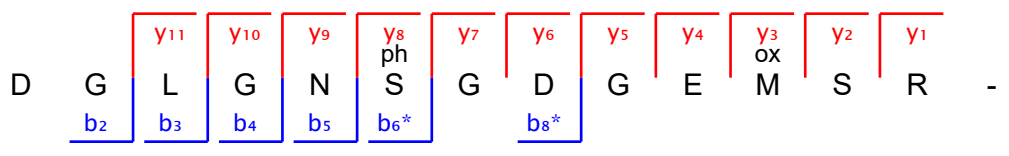
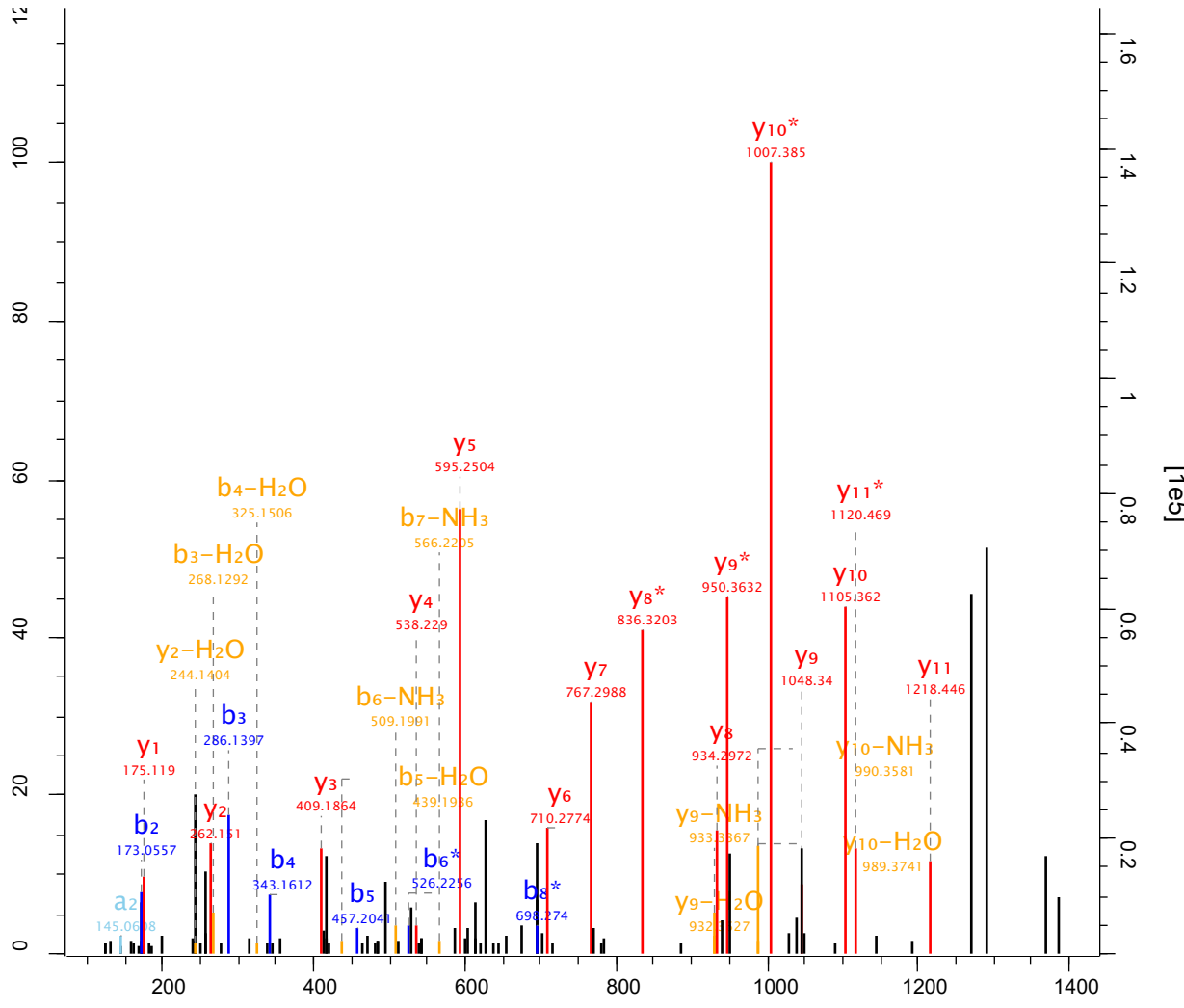
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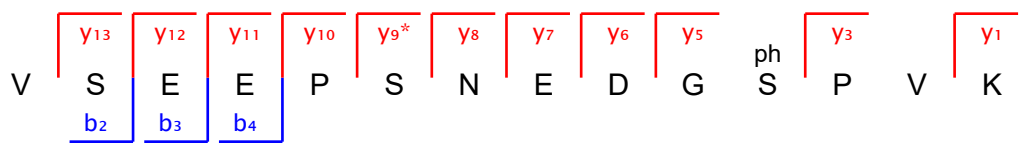
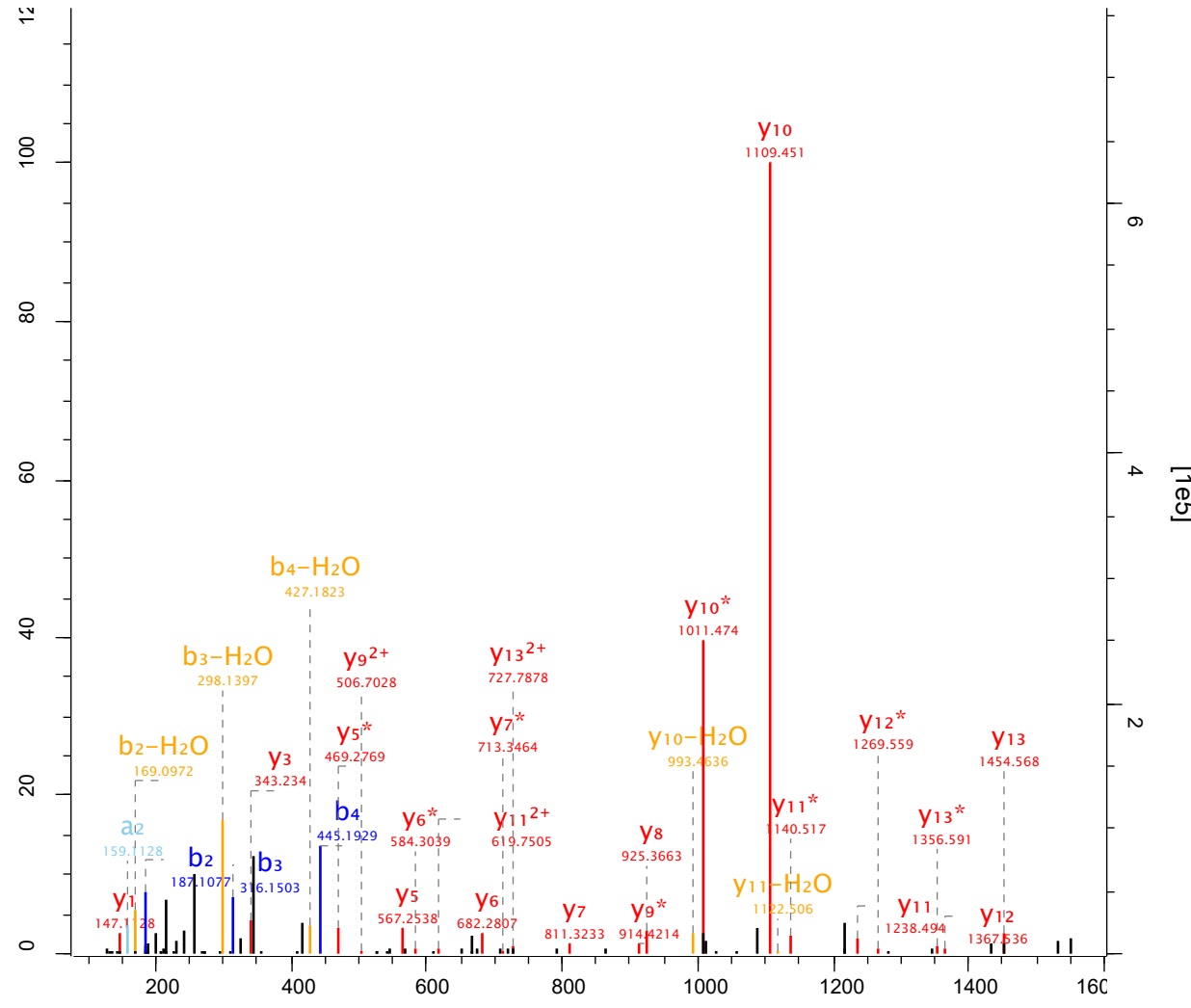
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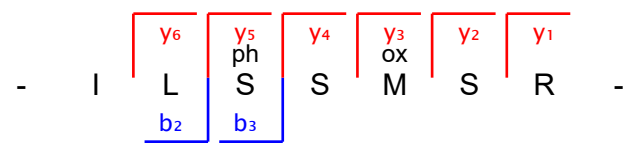
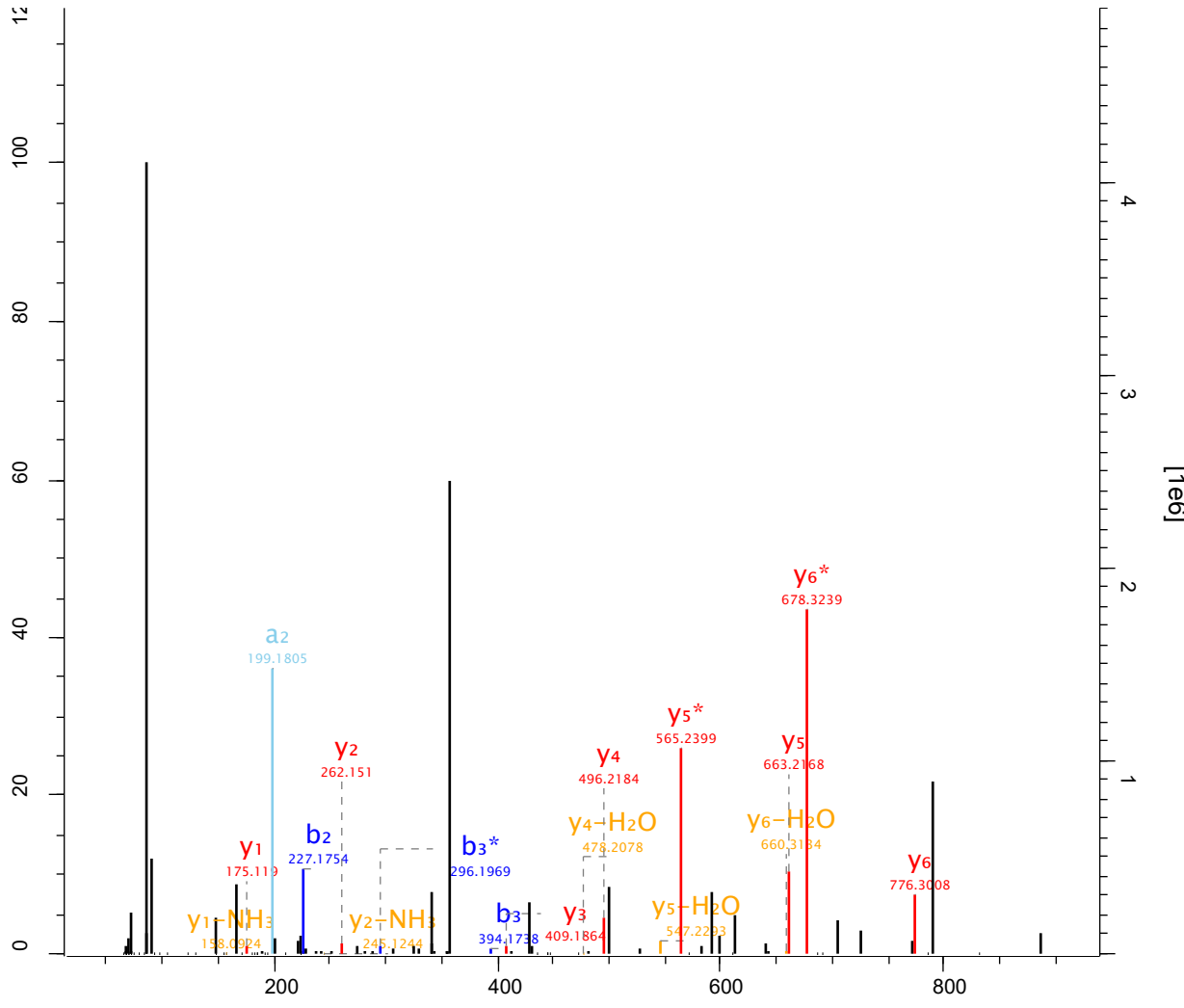
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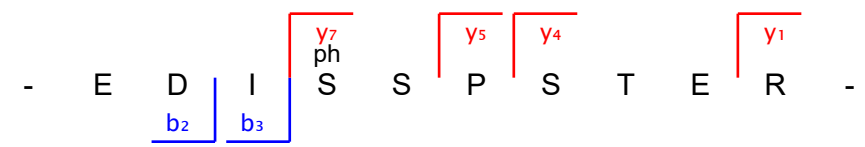
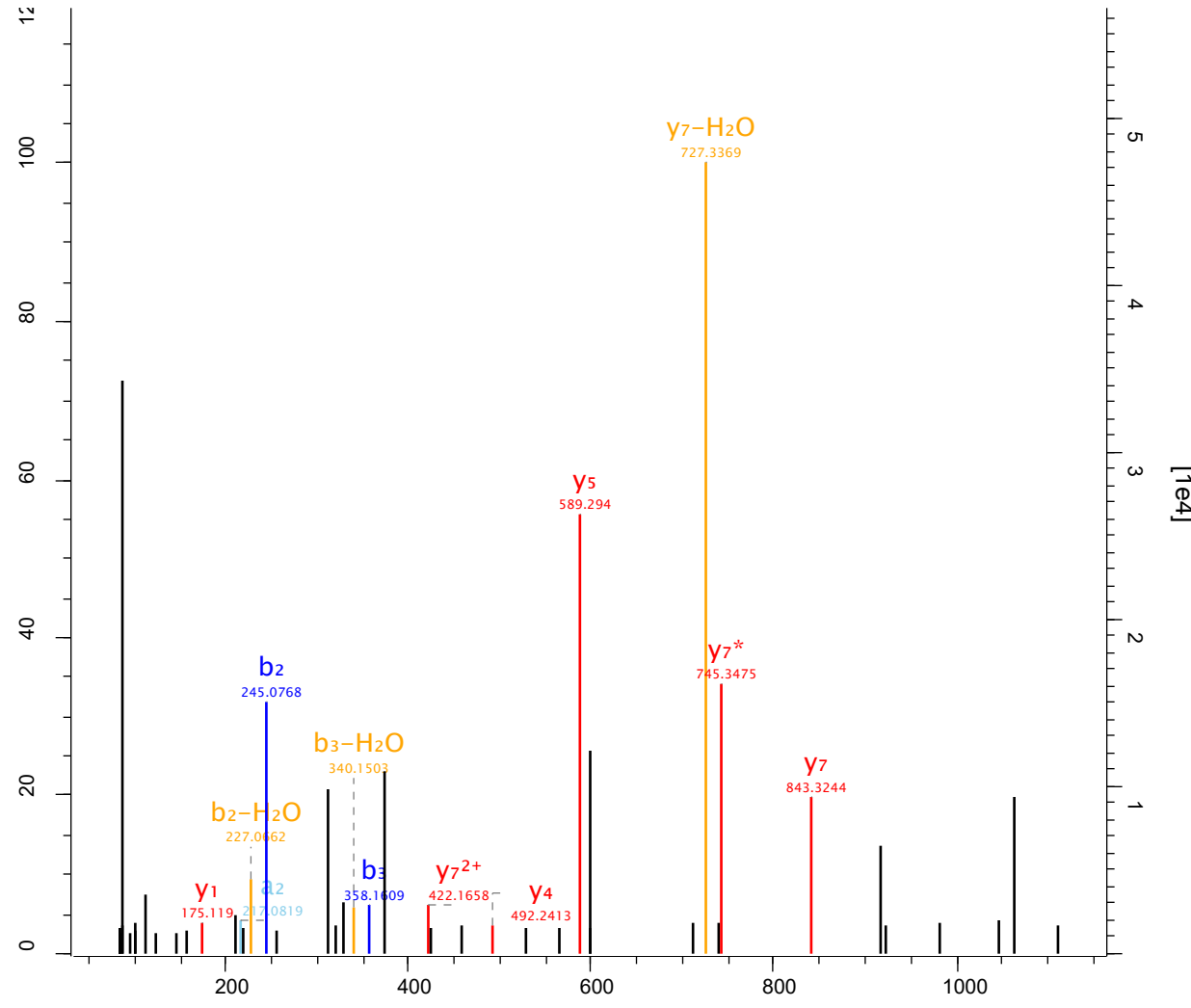
Raw file	Scan	Method	Score	m/z
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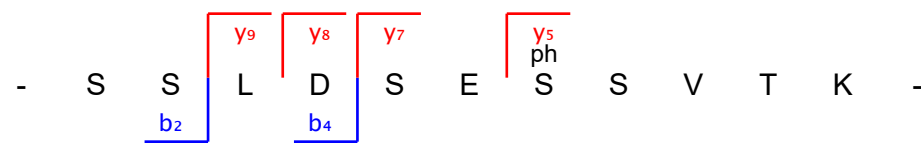
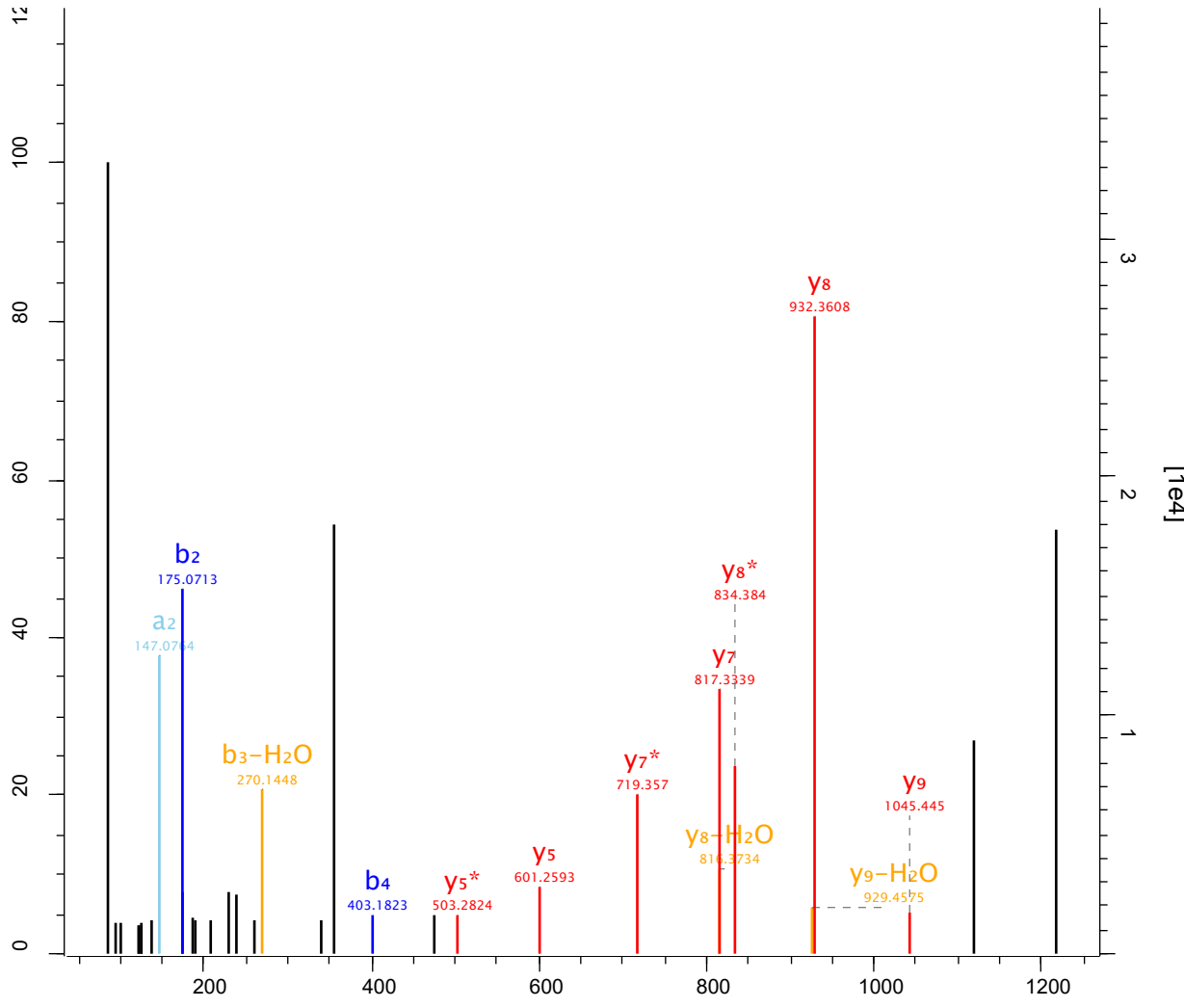
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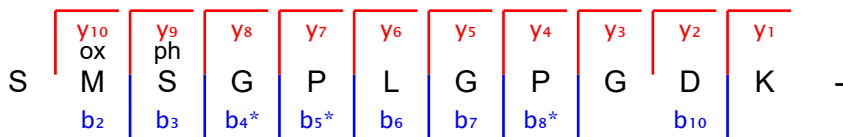
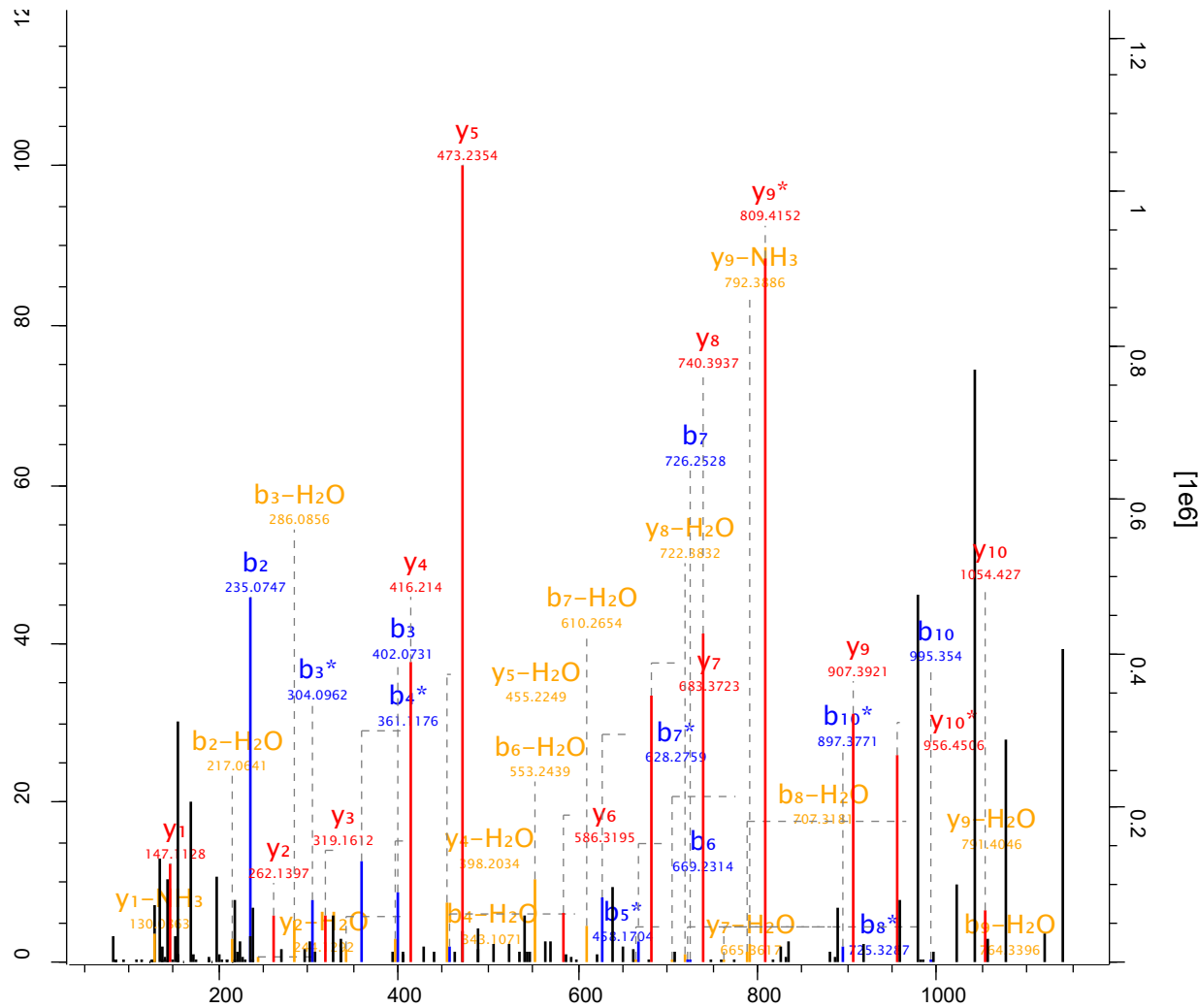
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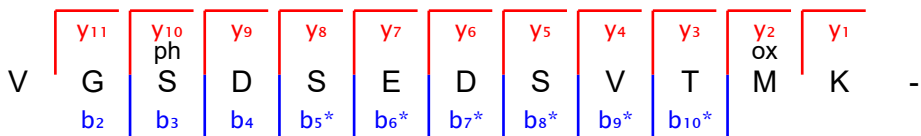
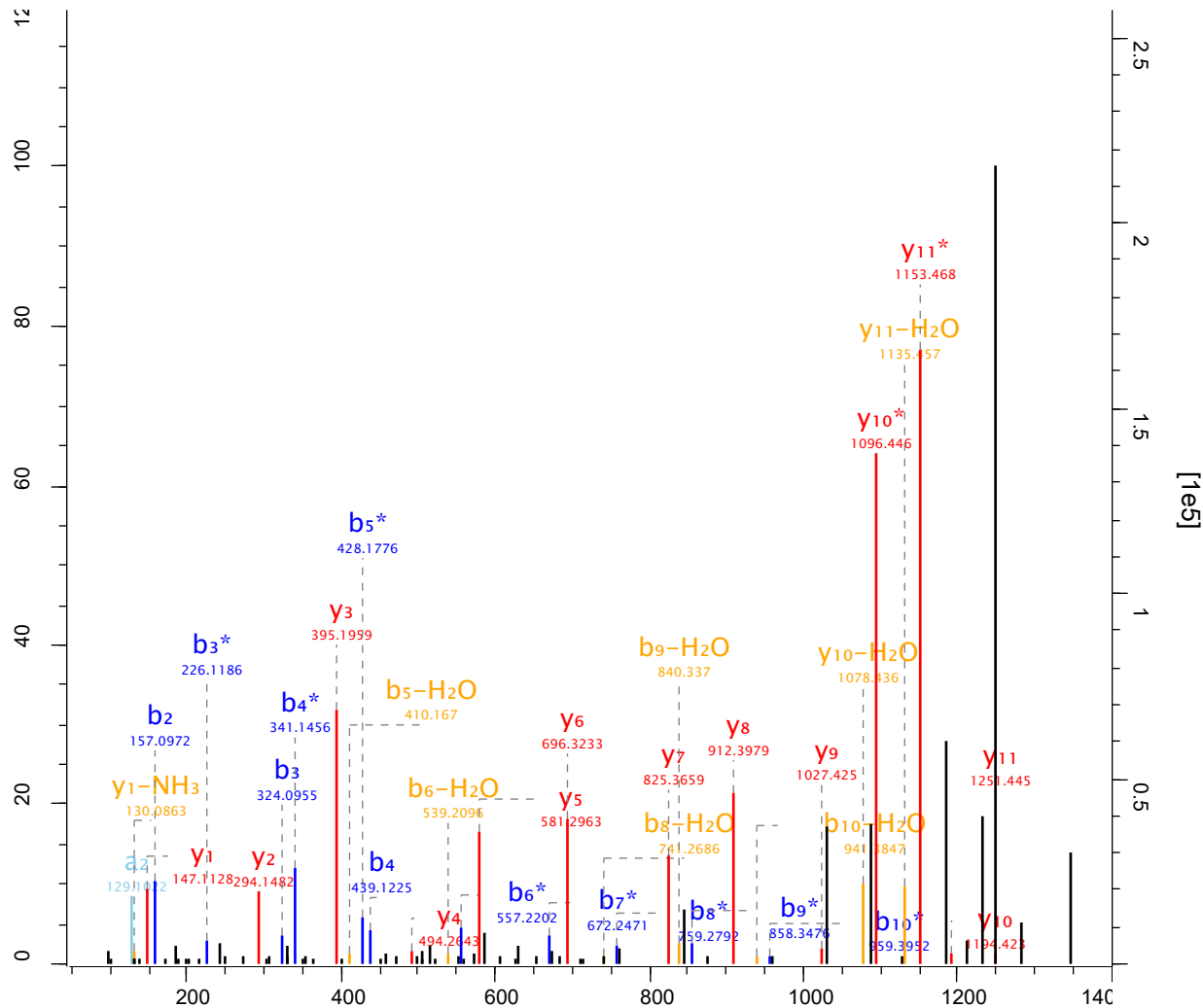
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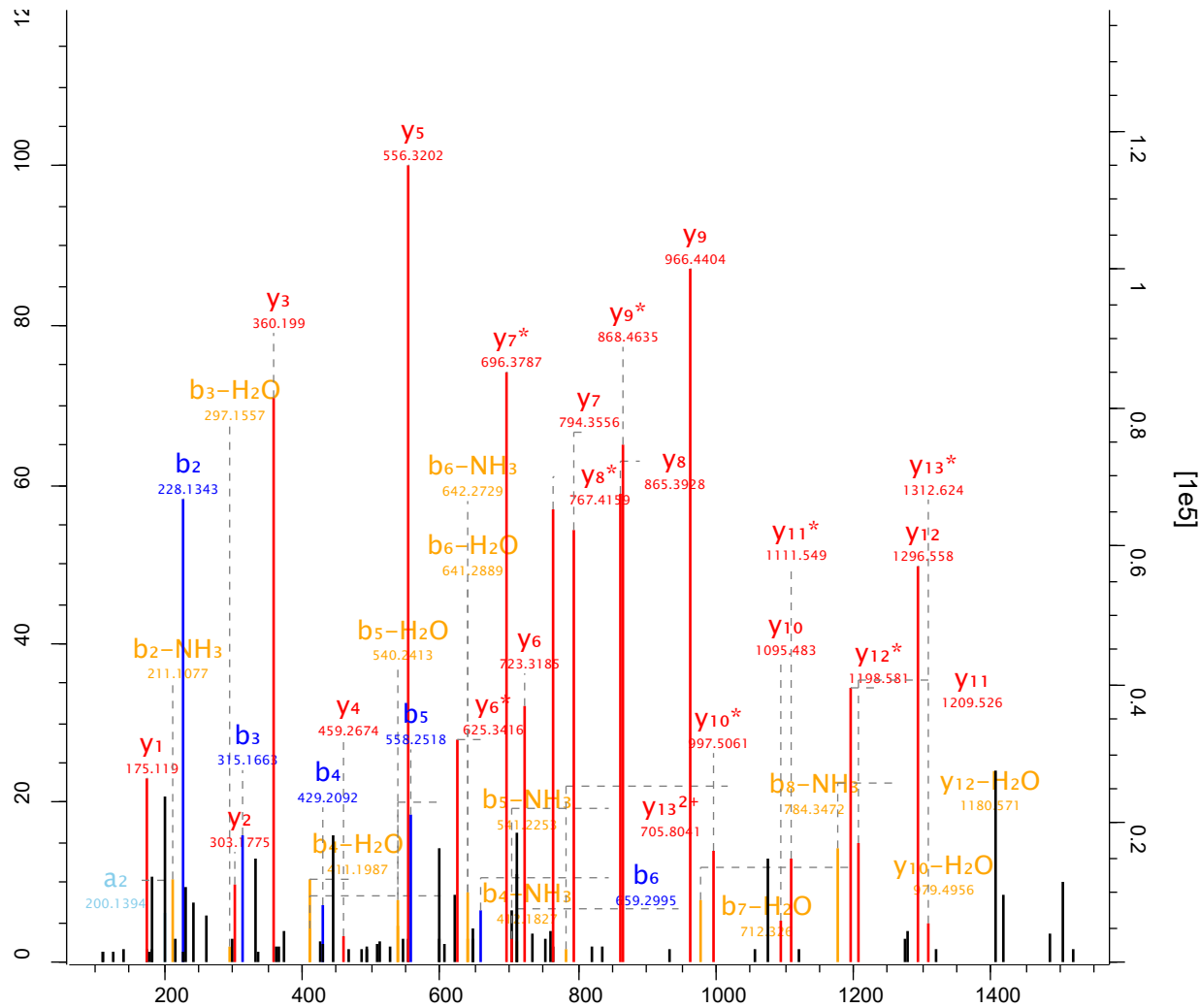
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Raw file Scan Method Score m/z
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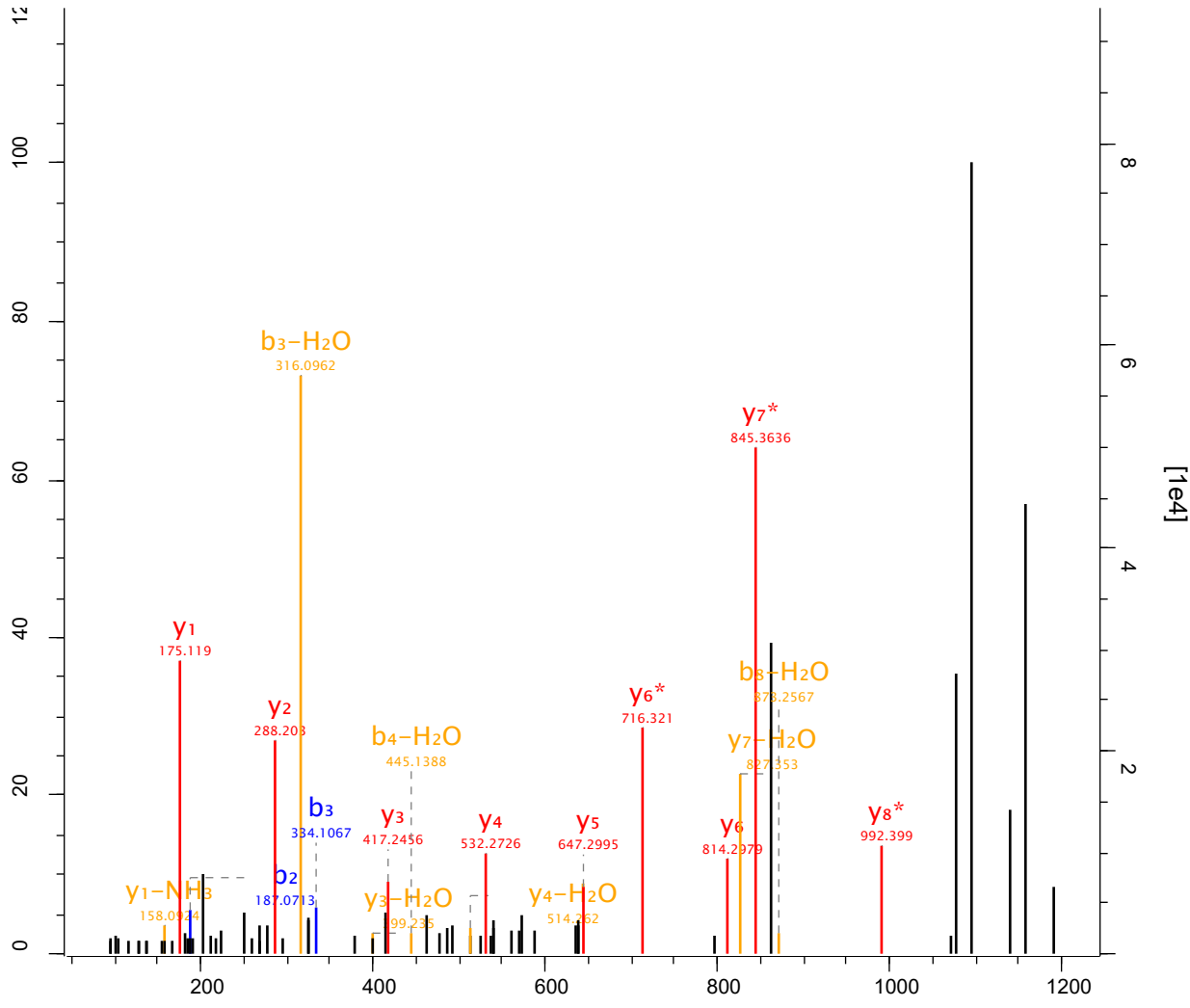


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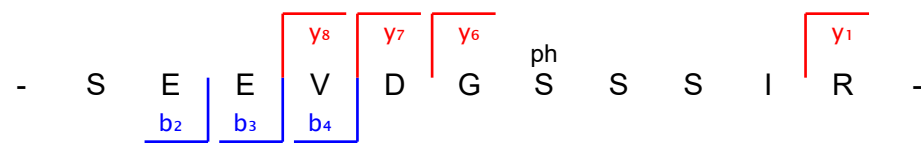
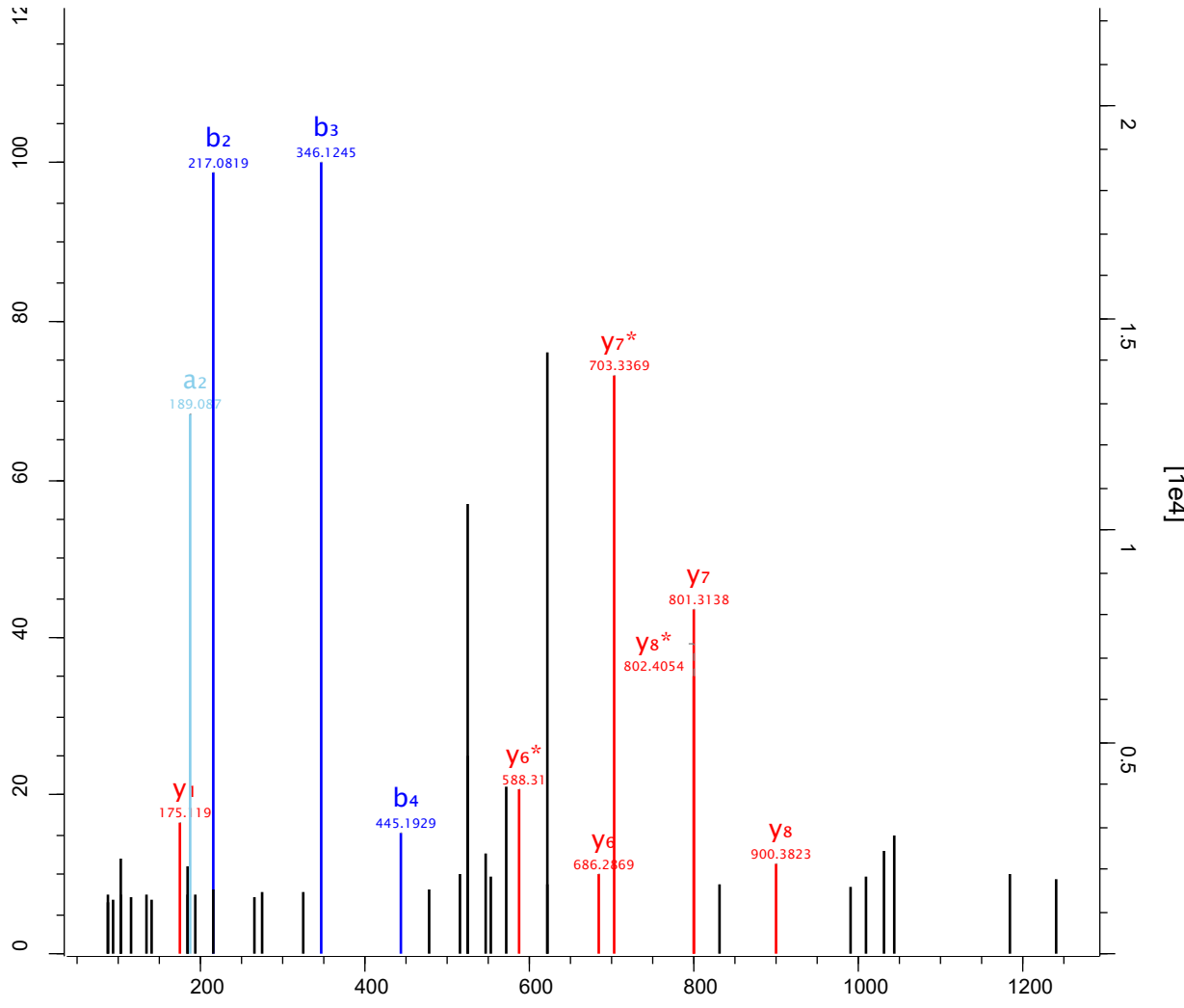
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b2 b3 b4 b5 b6

Raw file Scan Method Score m/z
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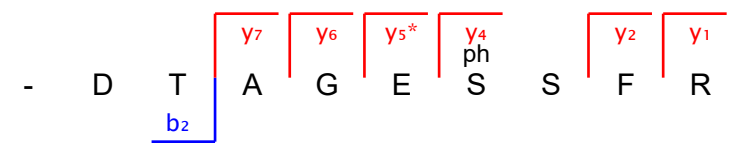
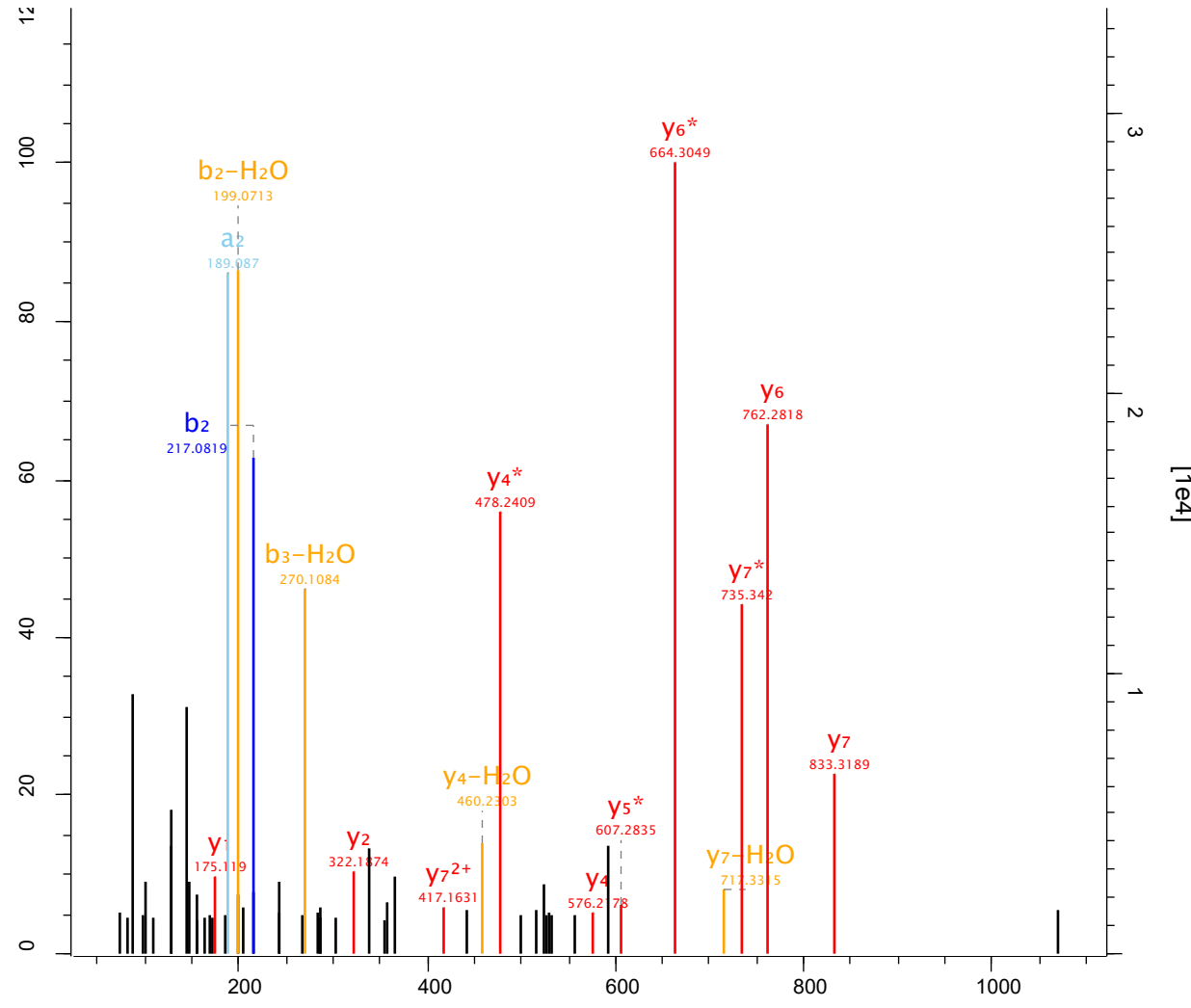


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 b2 b3 y8* ox y7* y6 ph y5 y4 y3 y2 y1

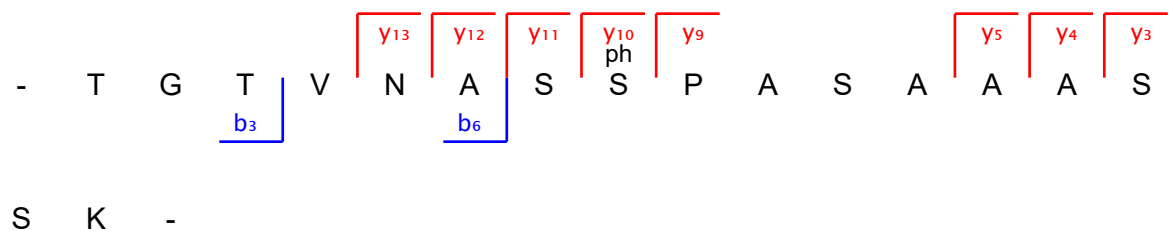
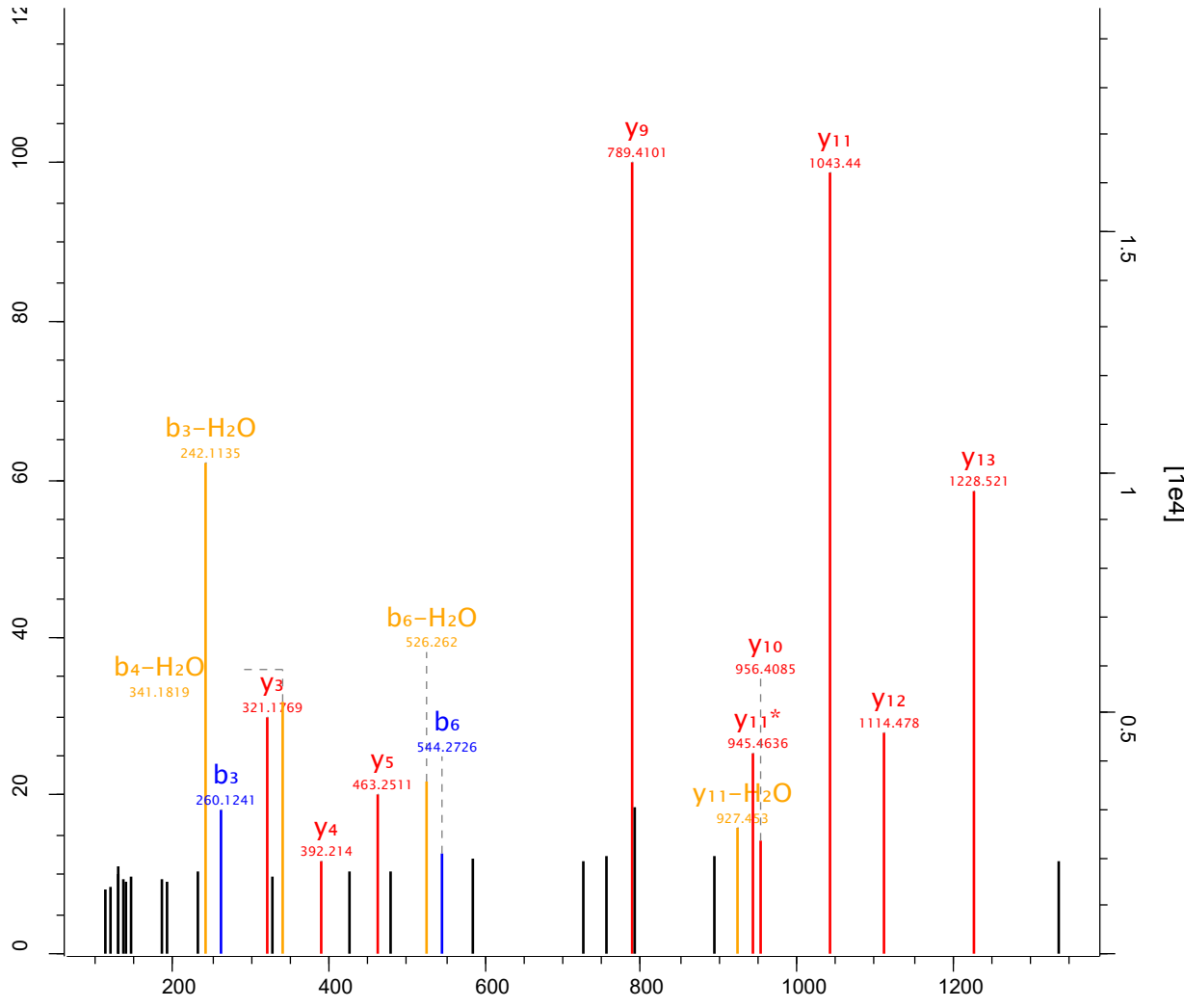
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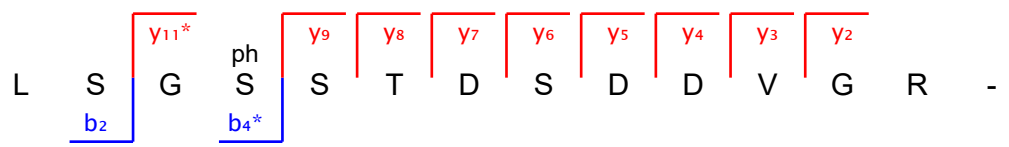
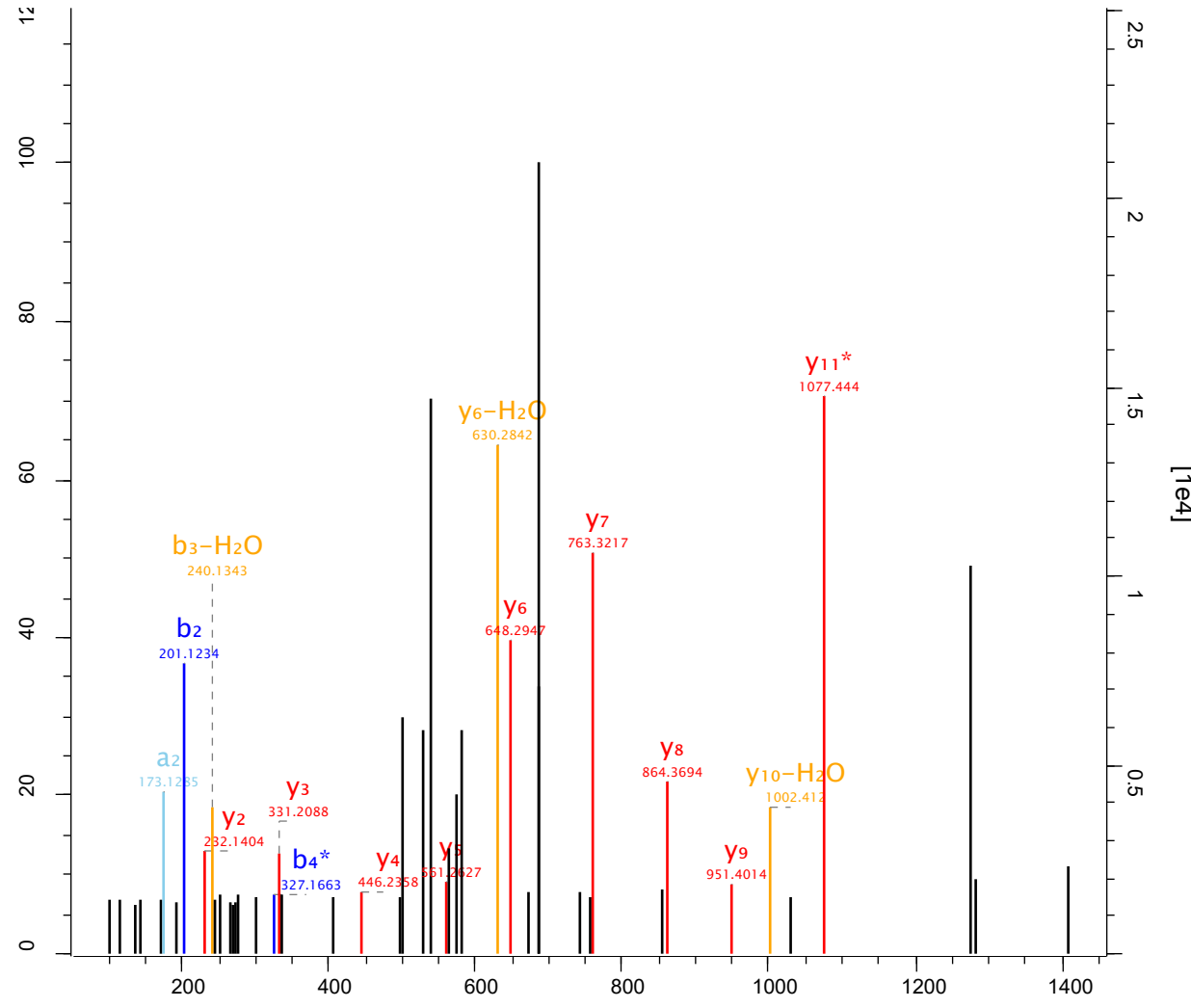
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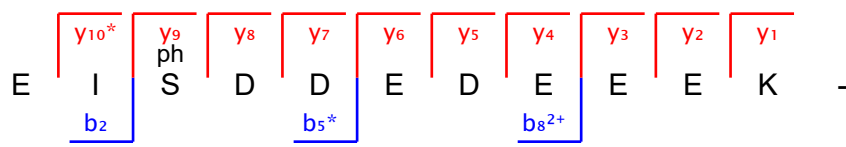
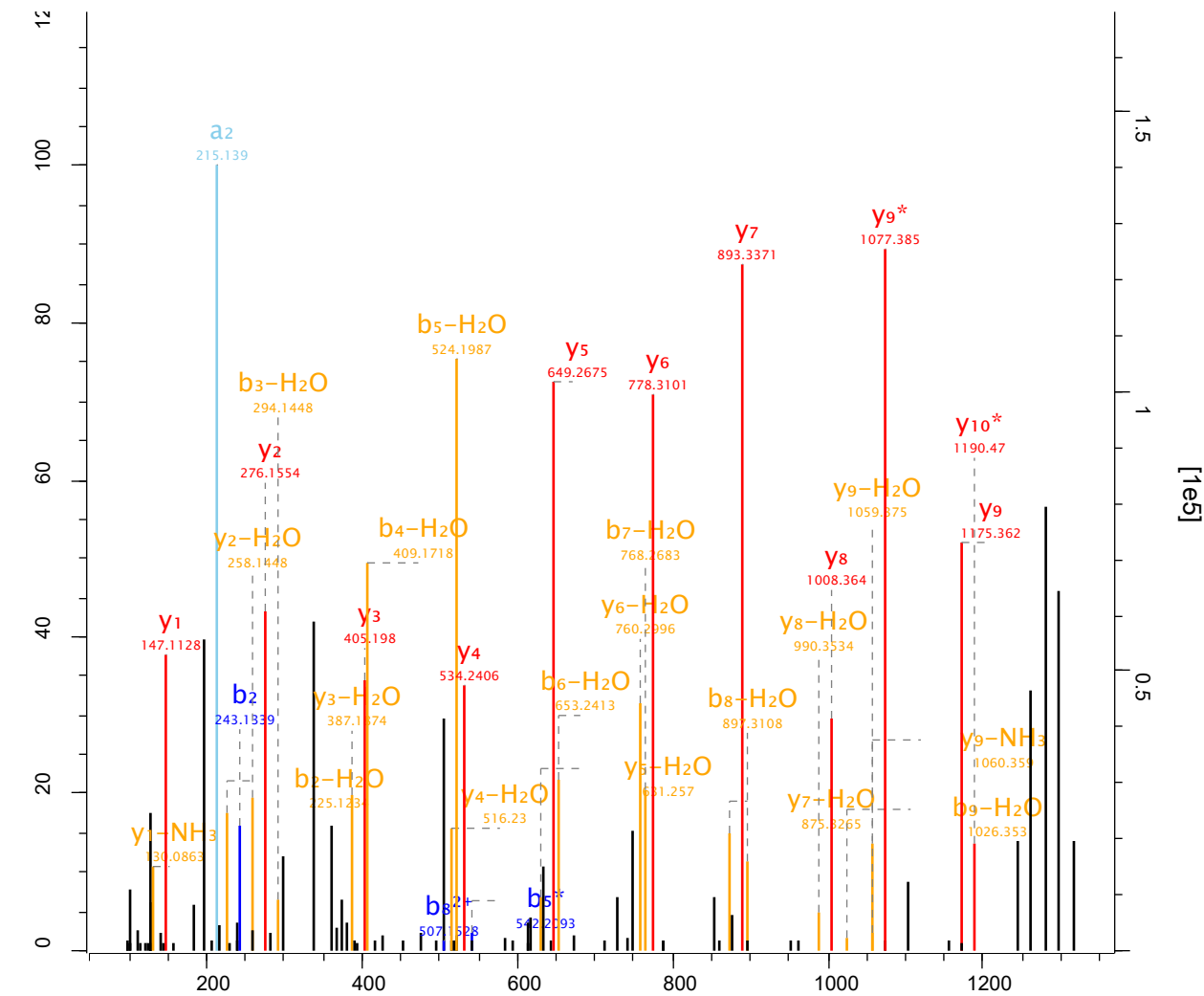
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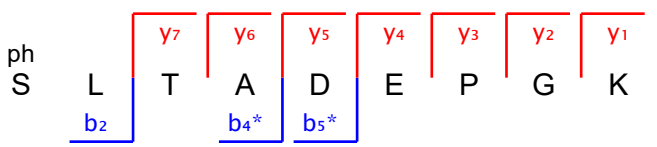
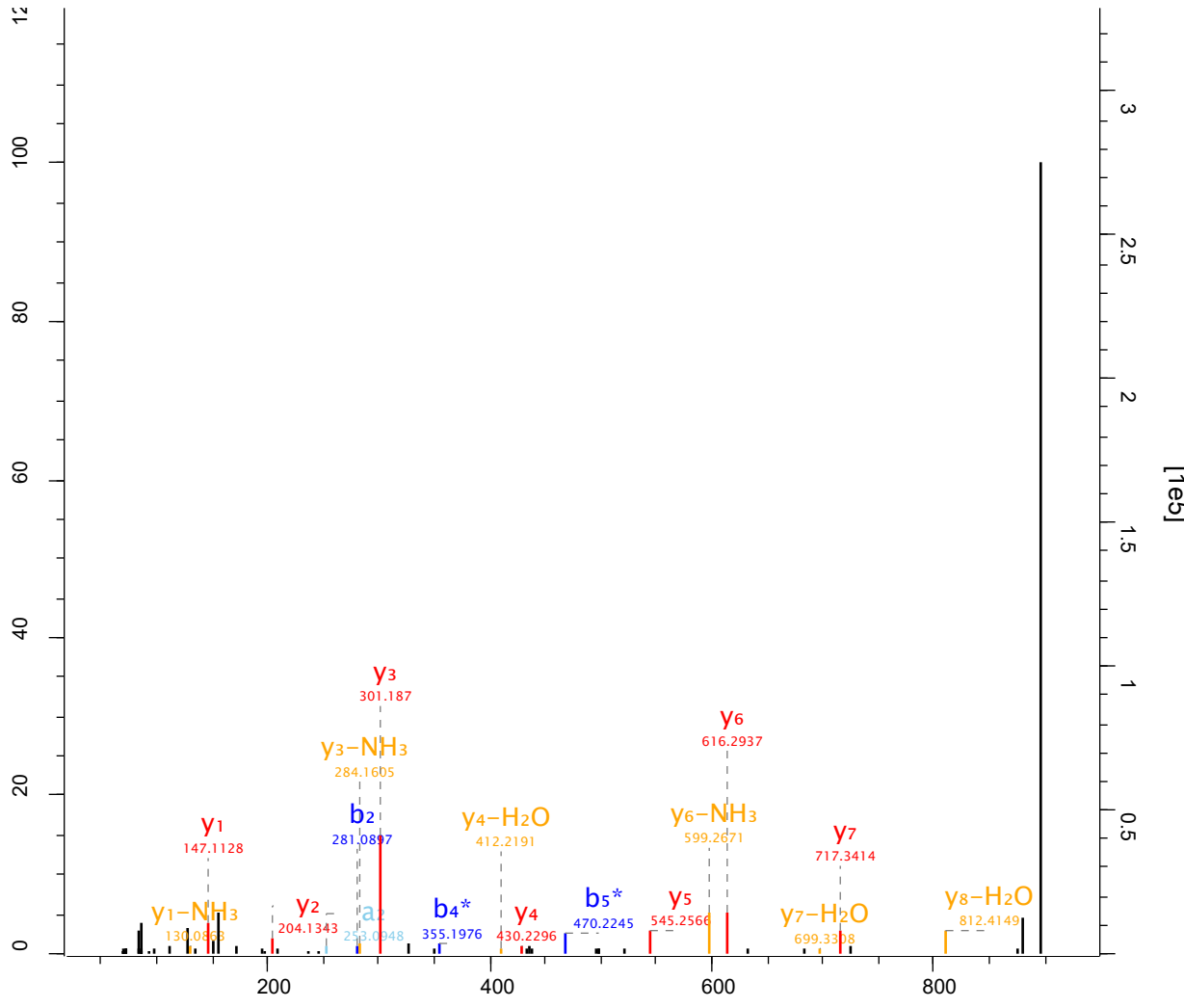
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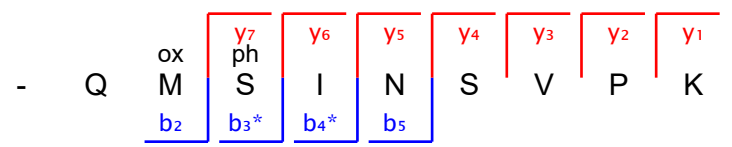
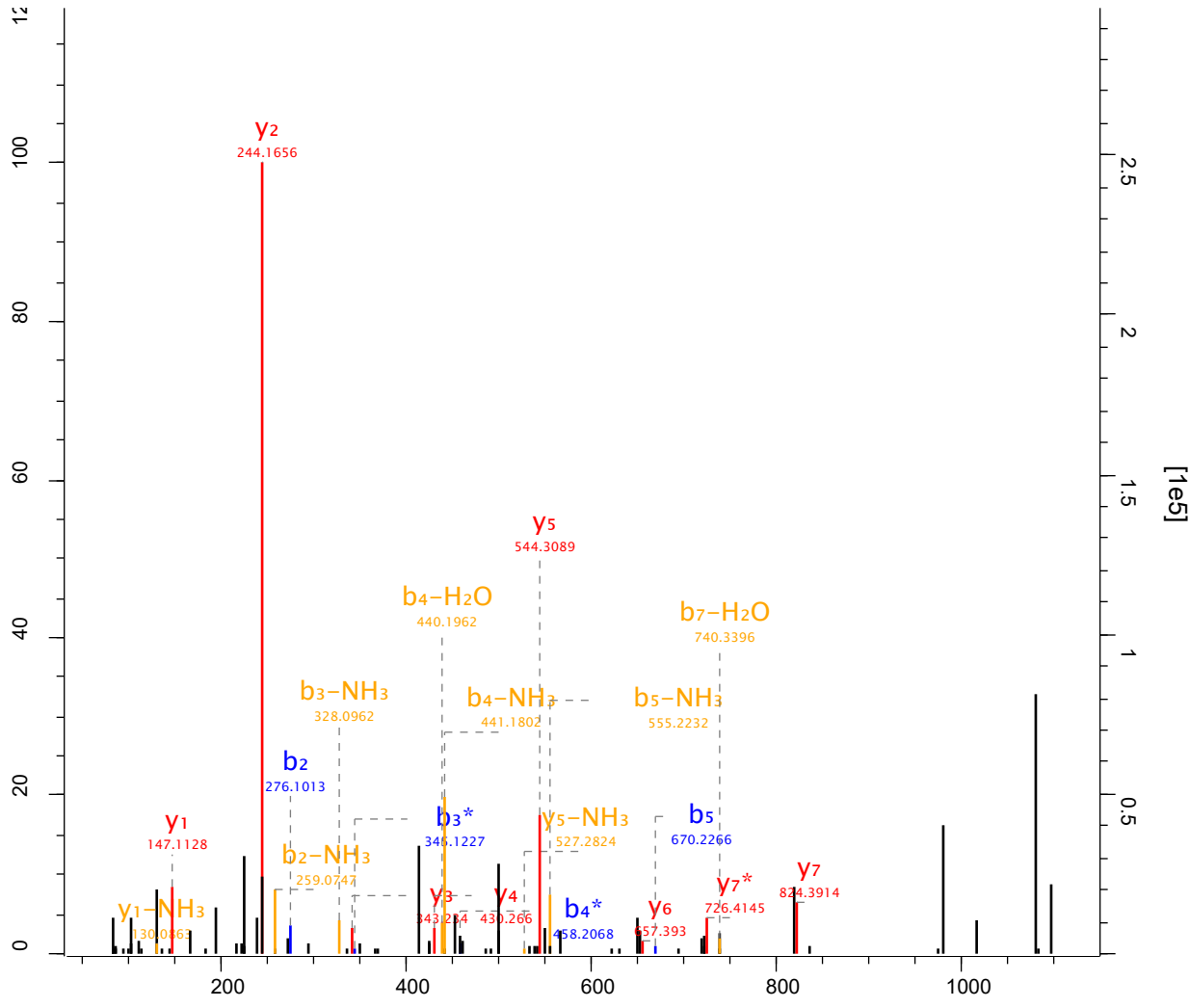
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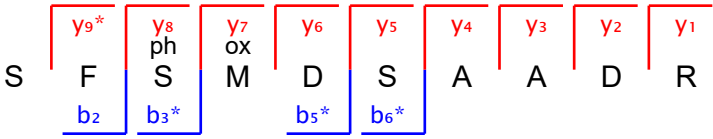
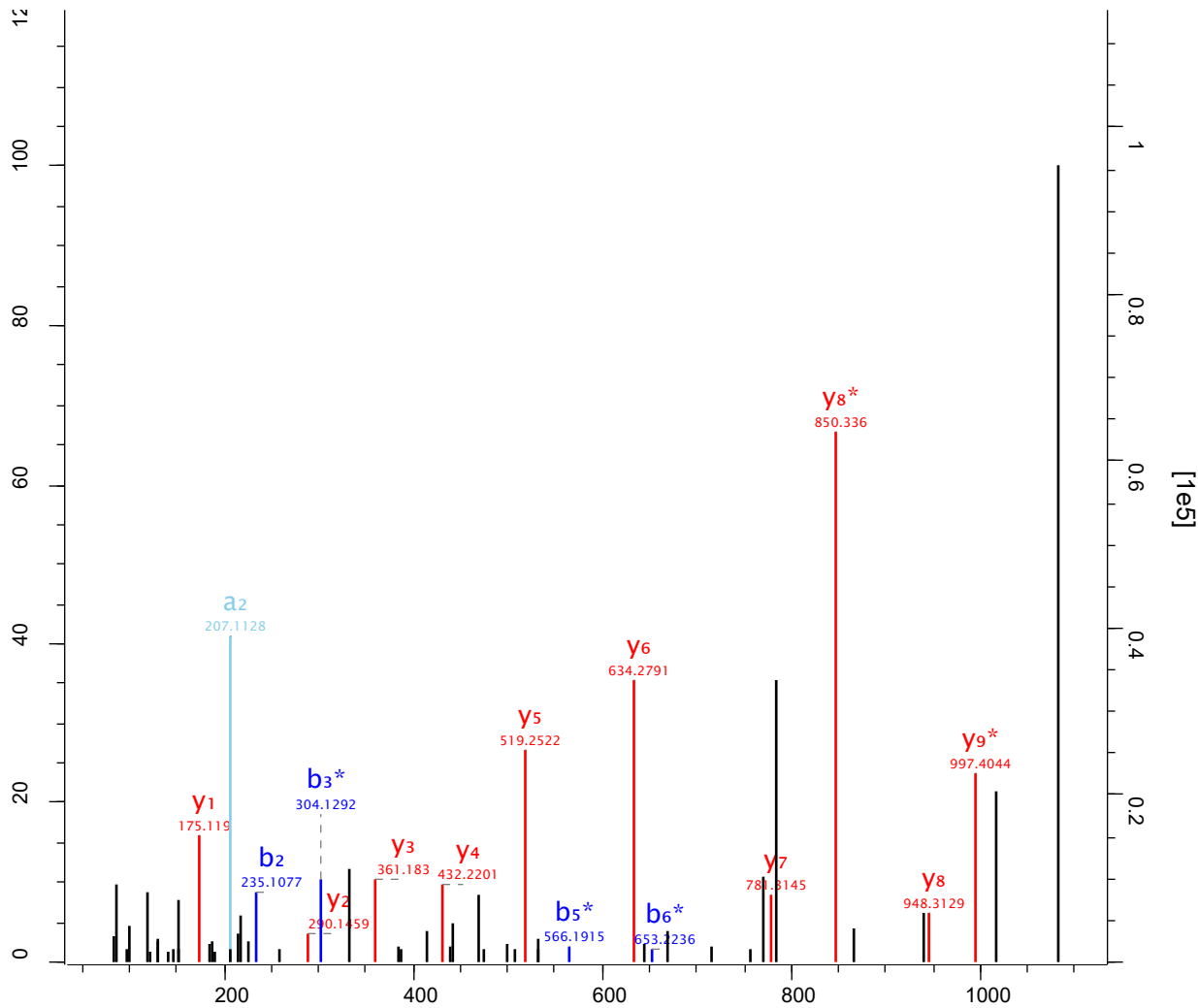
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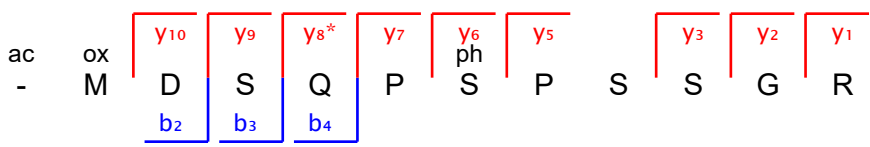
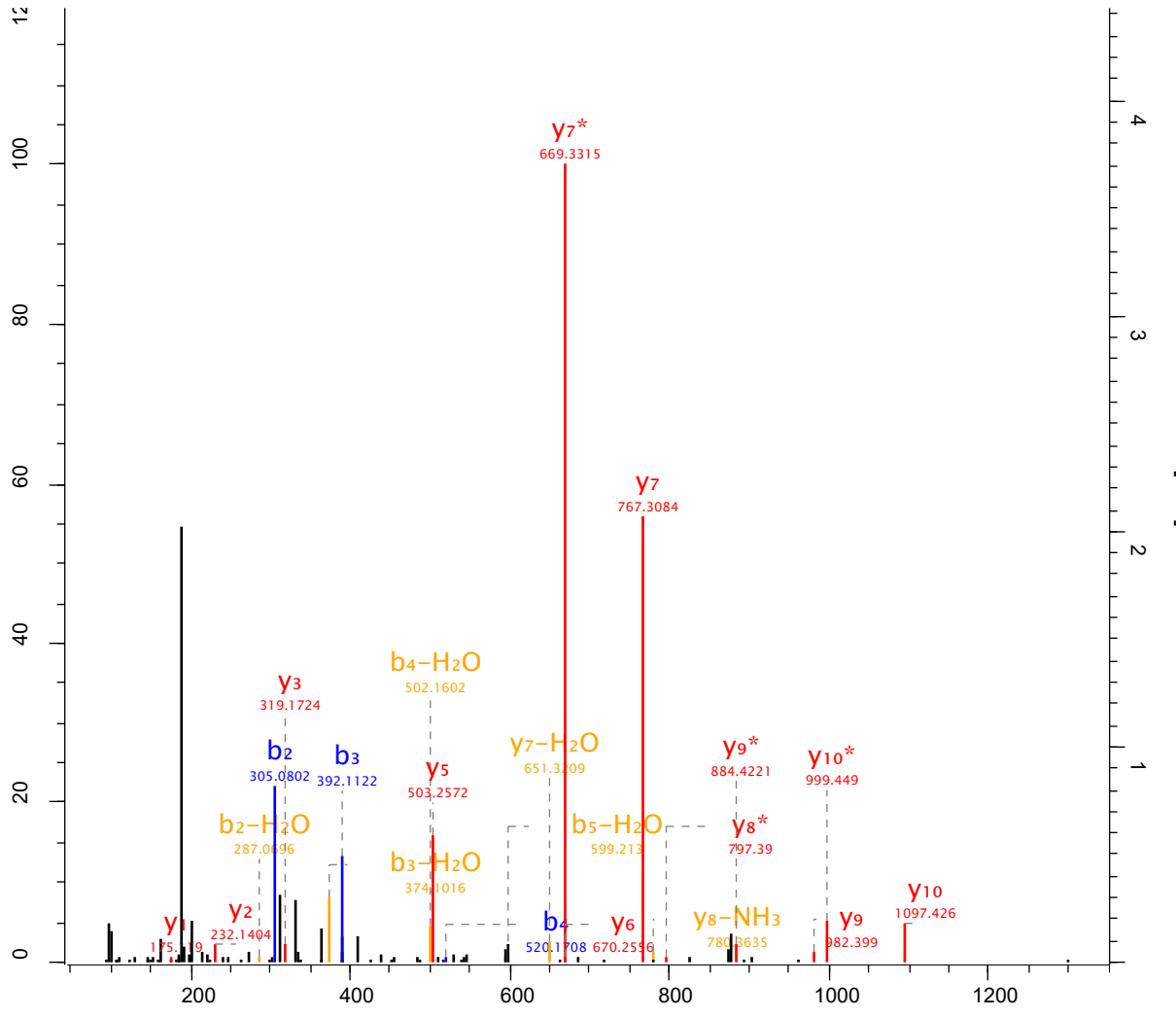
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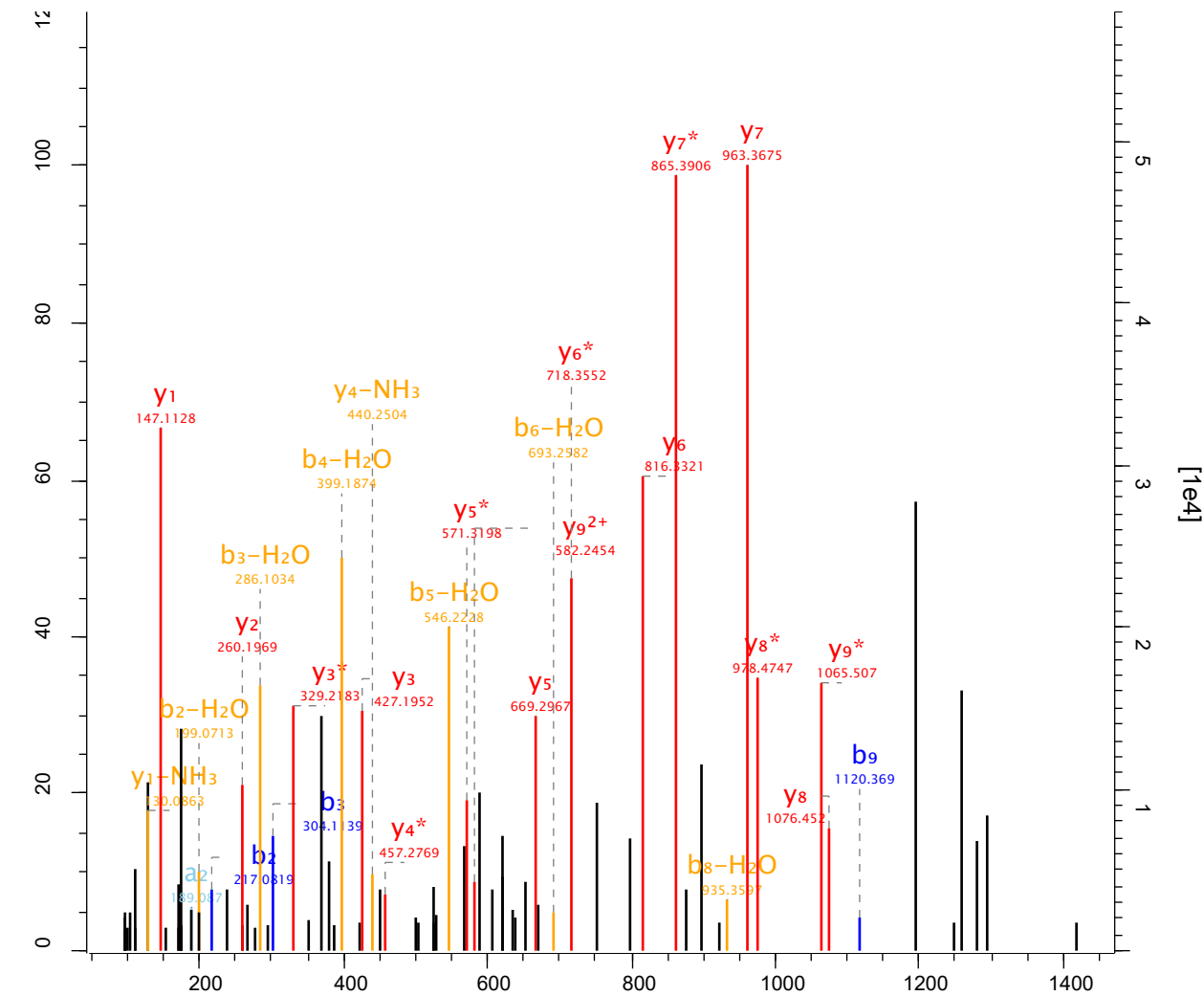
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Raw file Scan Method Score m/z
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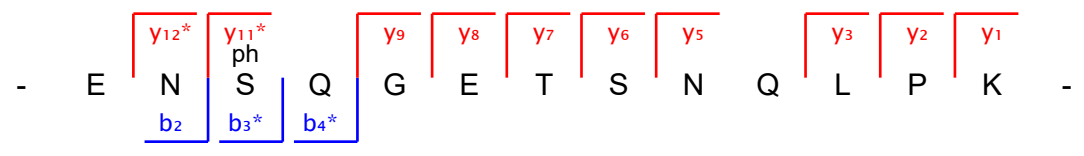
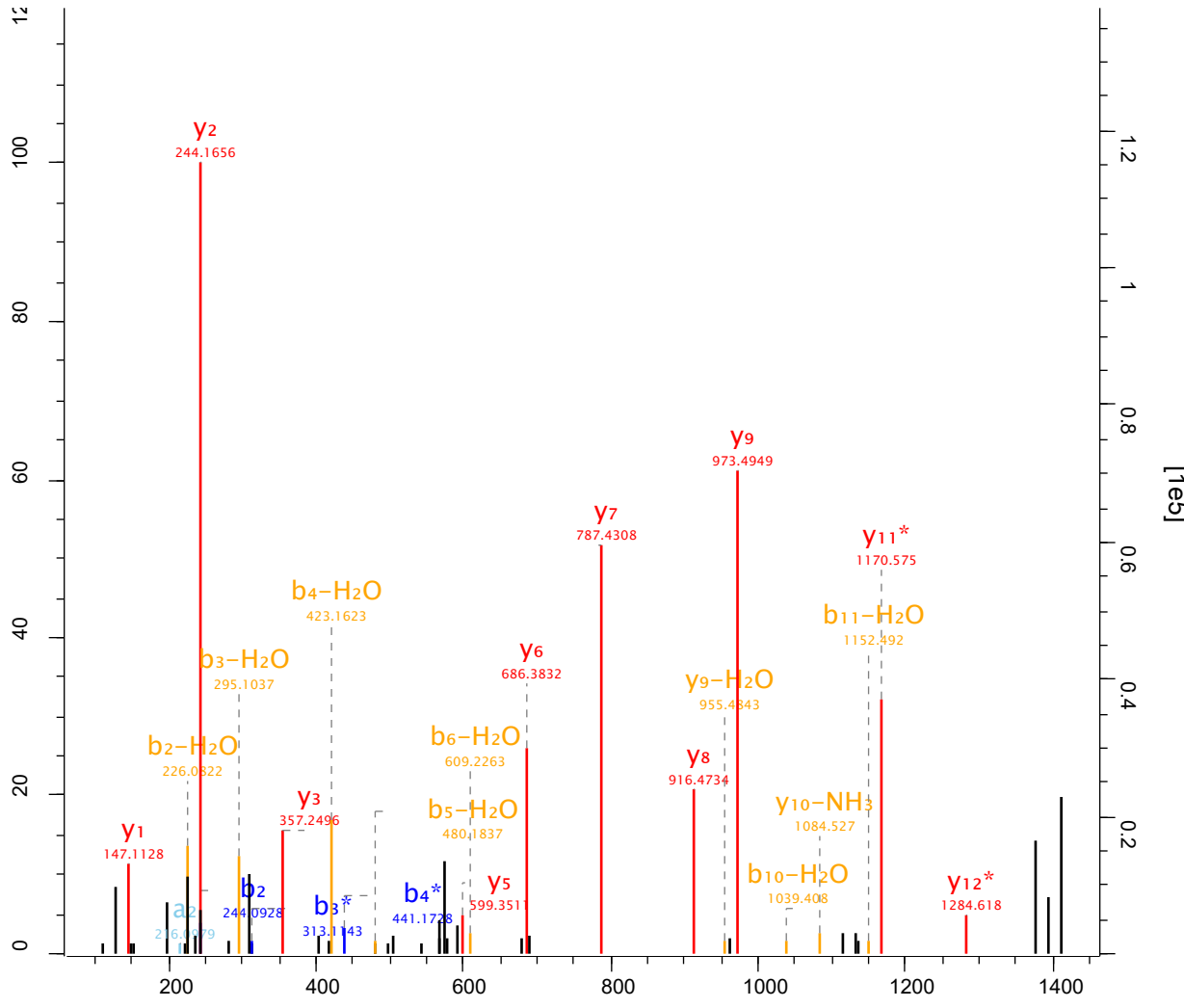


Raw file Scan Method Score m/z
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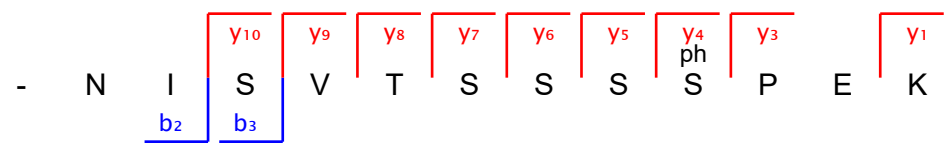
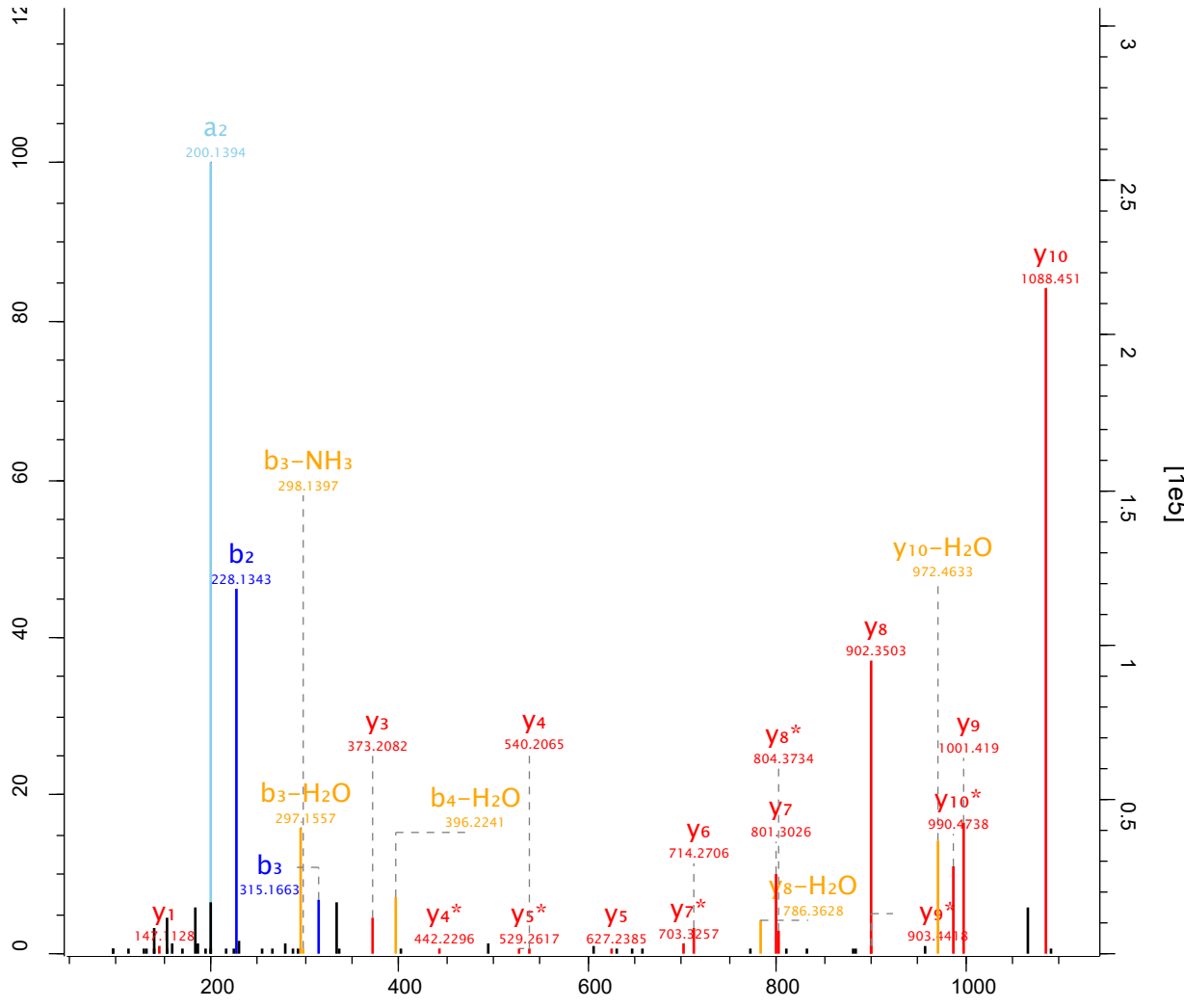


- E S S L M M N Q S I K -
 b₂ b₃ b₉

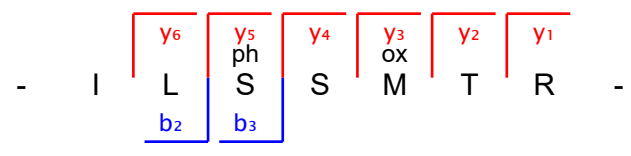
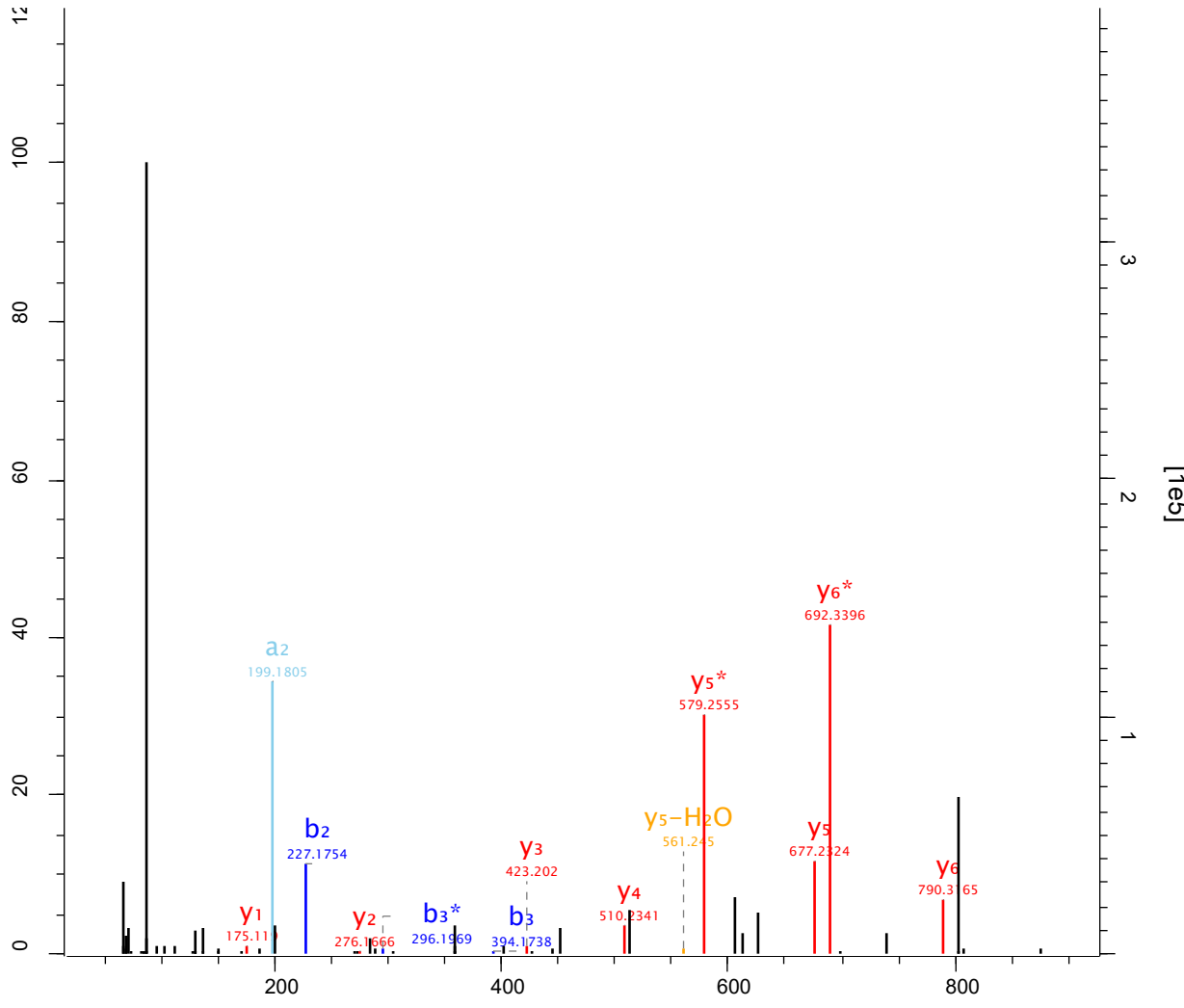
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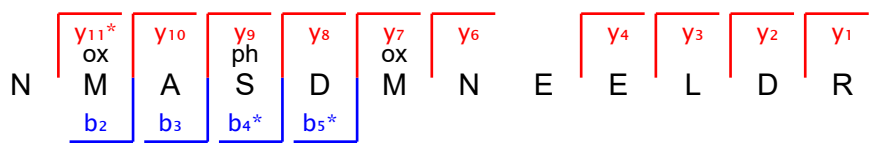
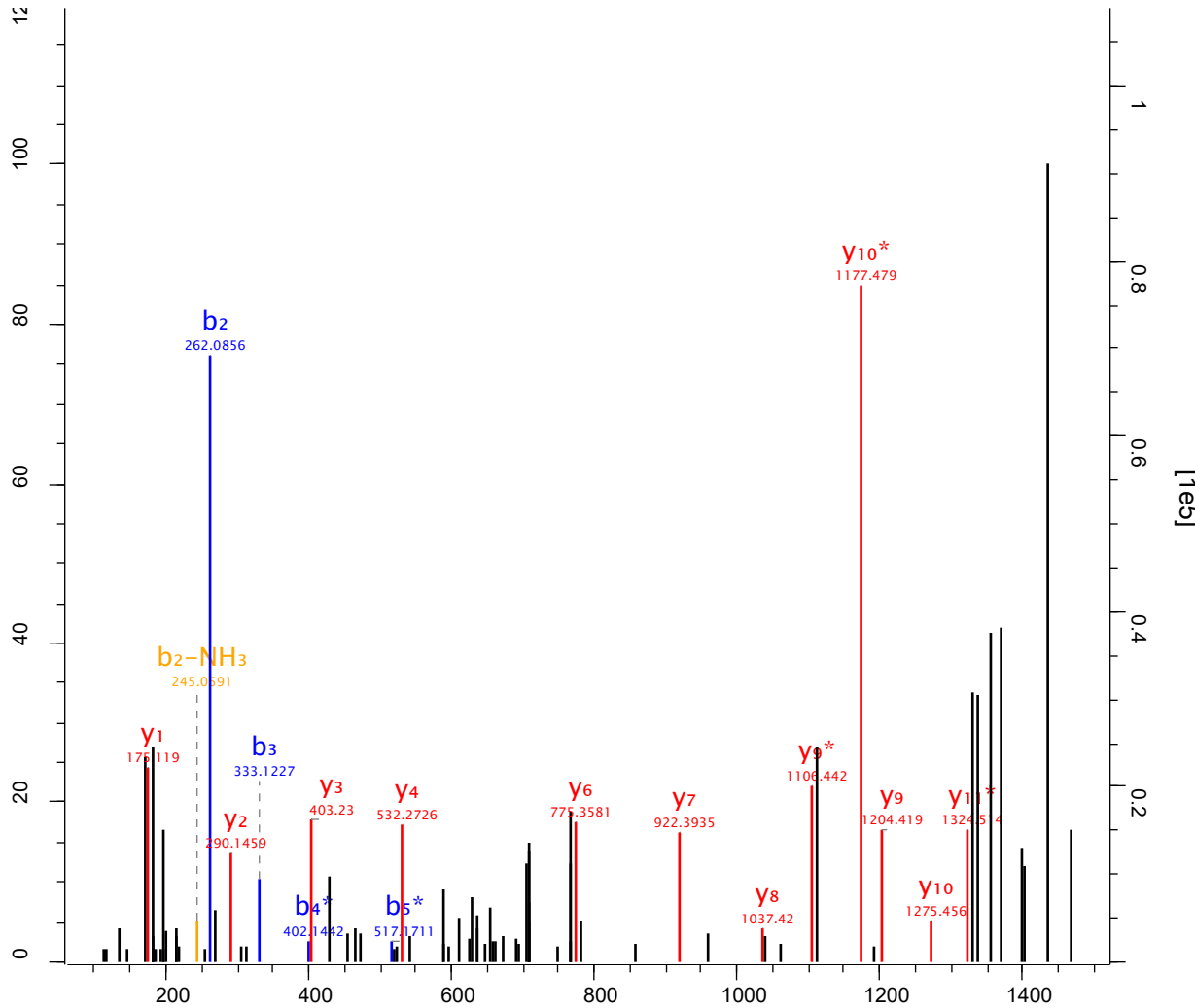
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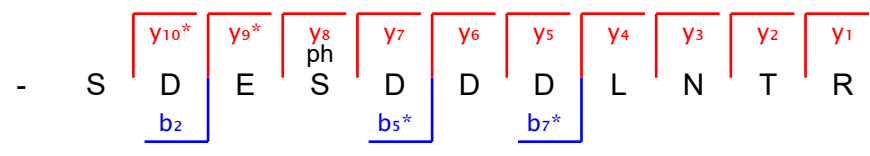
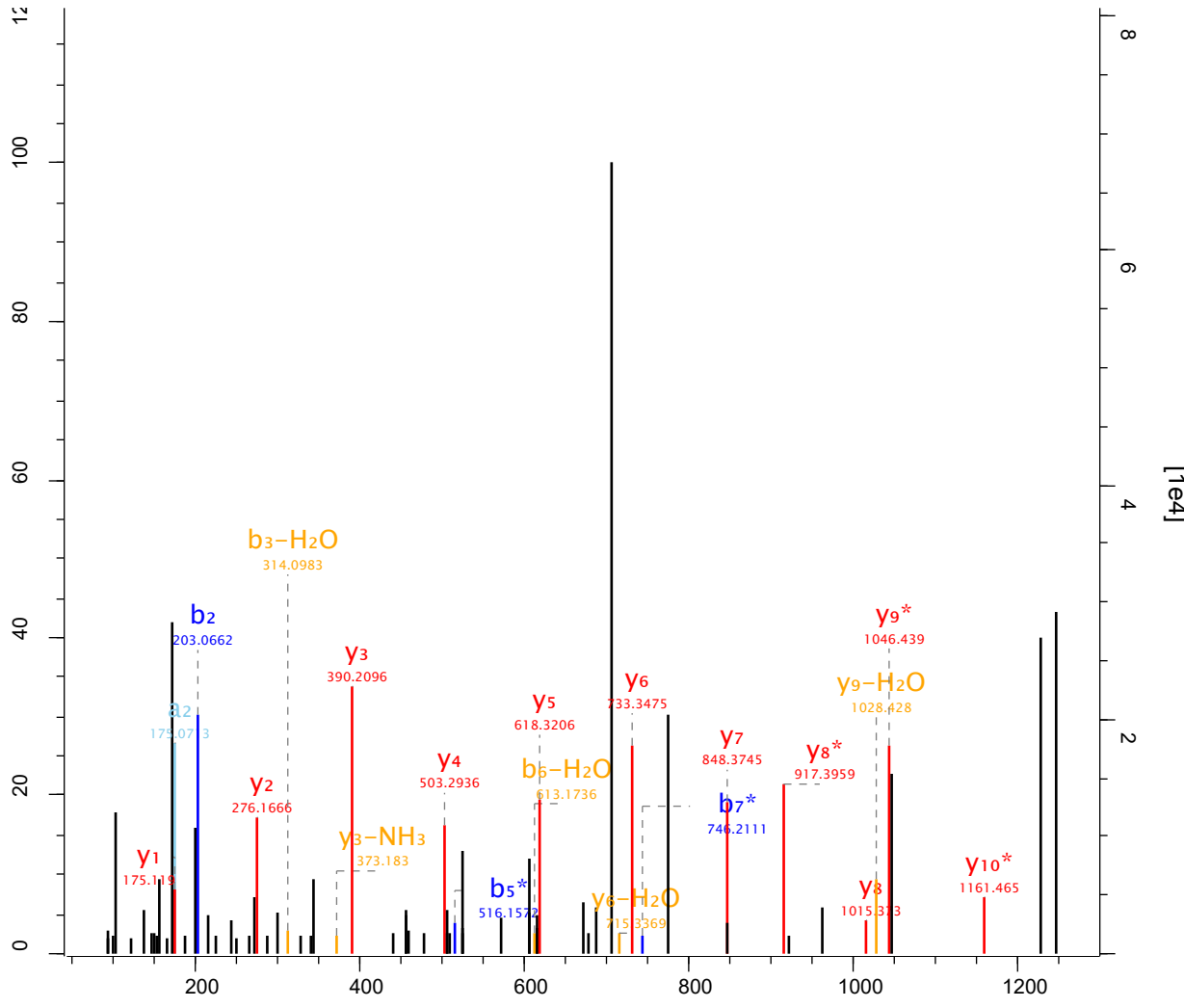
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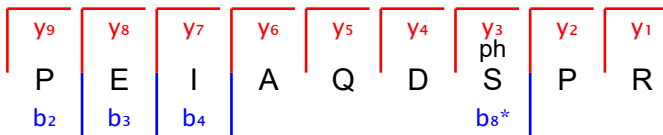
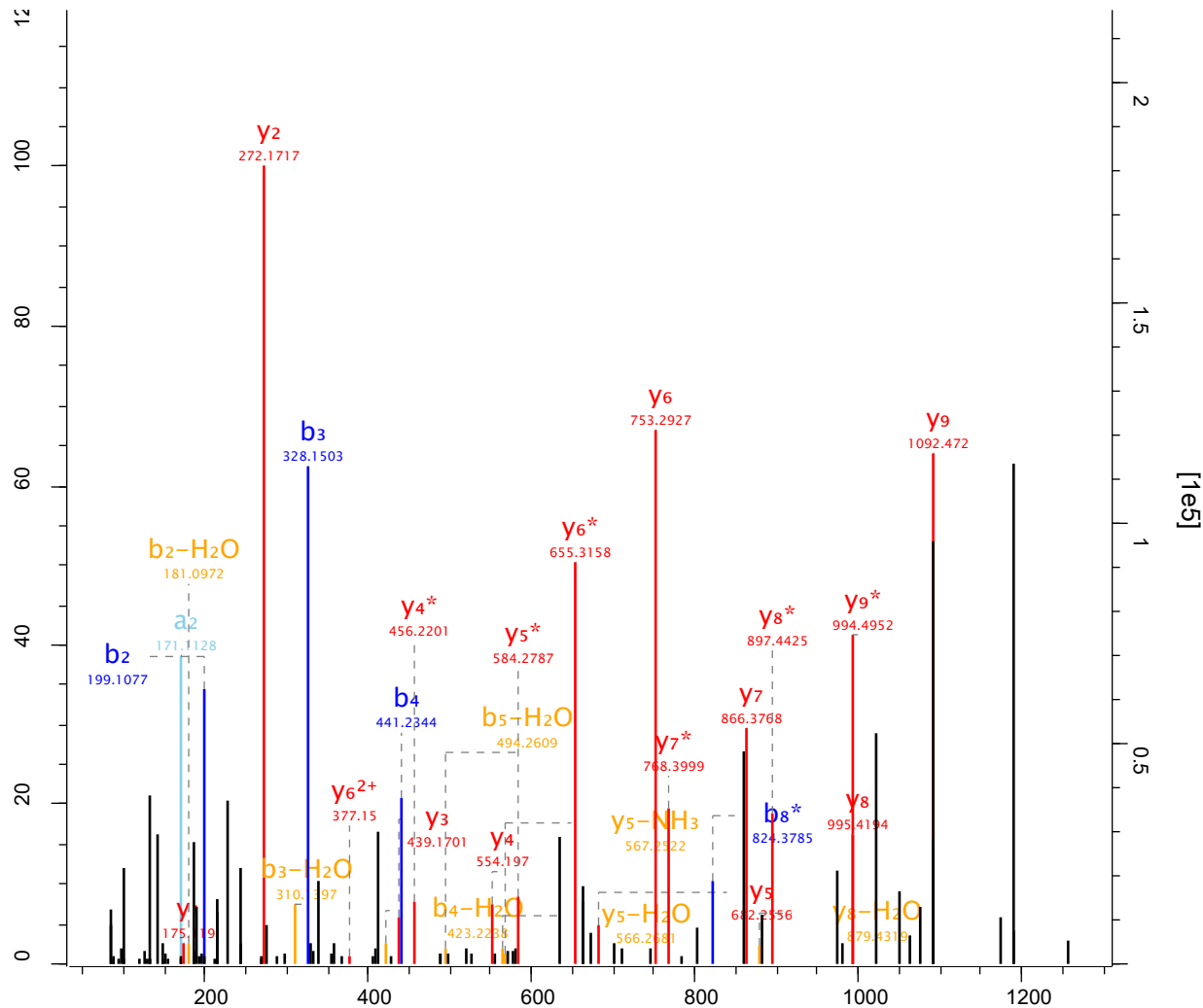
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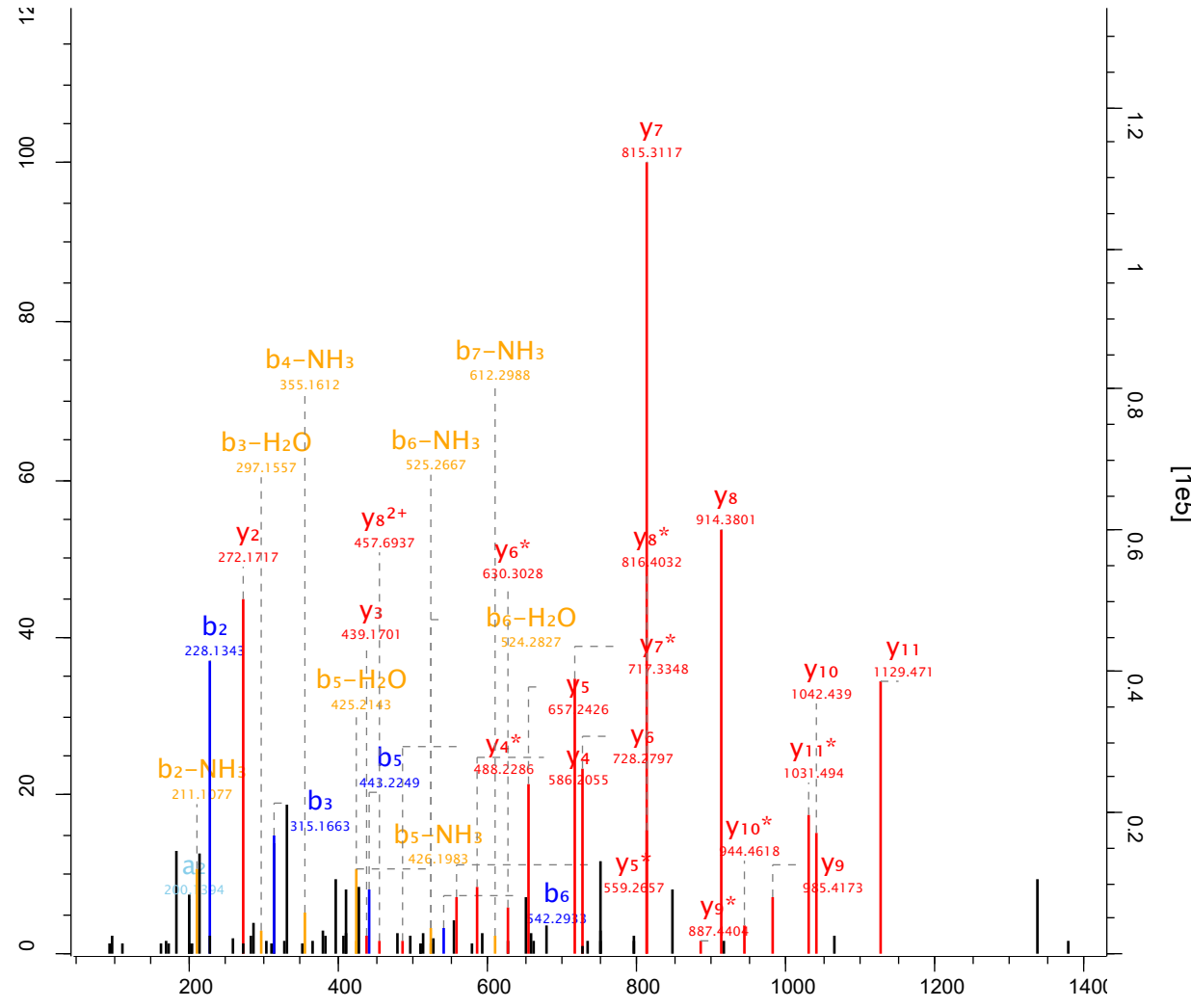
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Raw file Scan Method Score m/z
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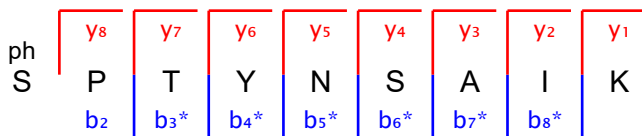
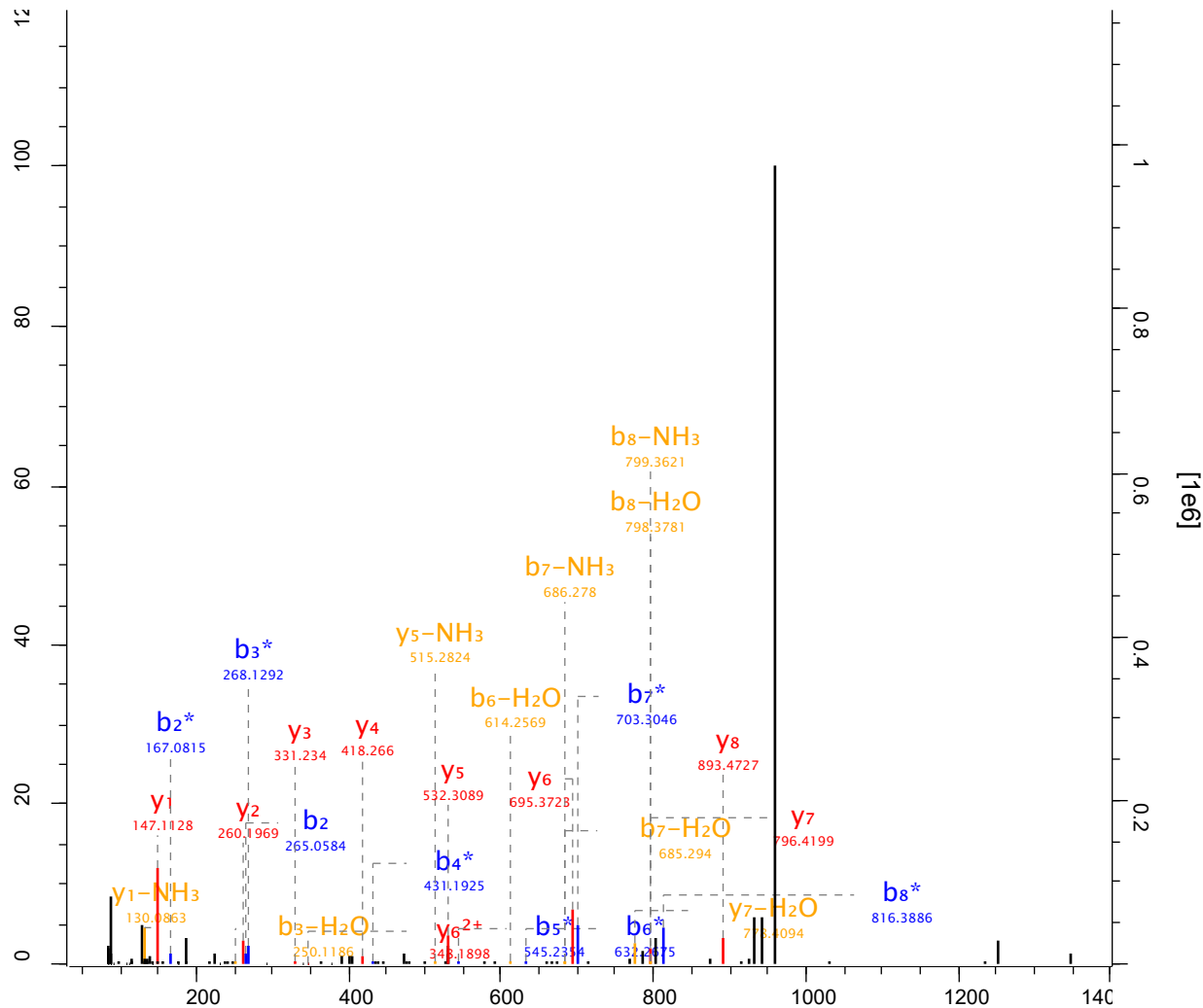
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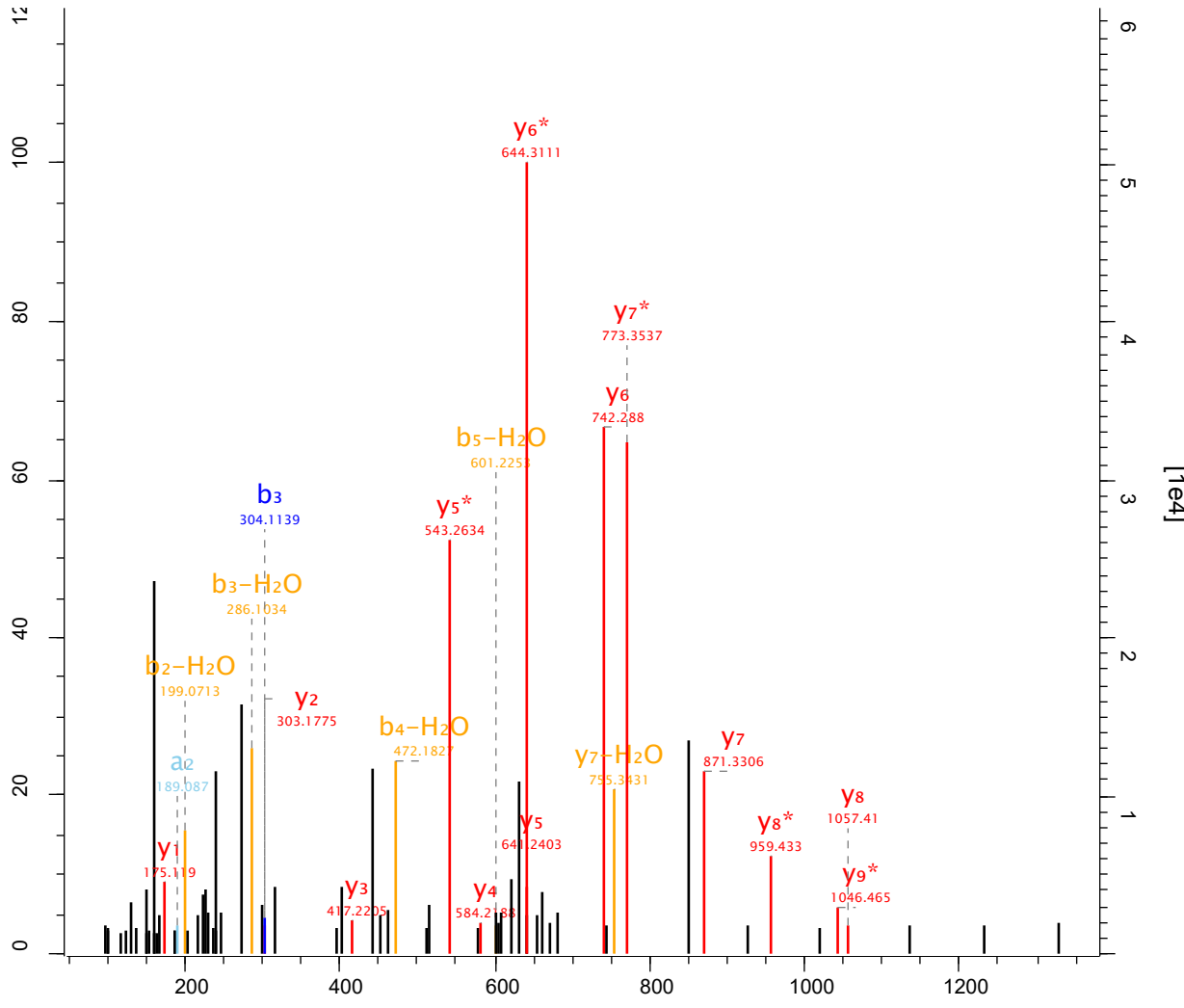
- L N S G A V S A A M S P R -

b₂
b₃
b₅
b₆
y₁₁
y₁₀
y₉
y₈
y₇
y₆
y₅
y₄
ox
y₃
ph
y₂

Raw file Scan Method Score m/z
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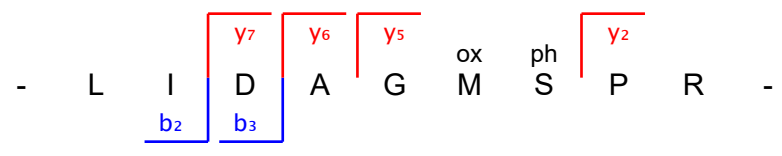
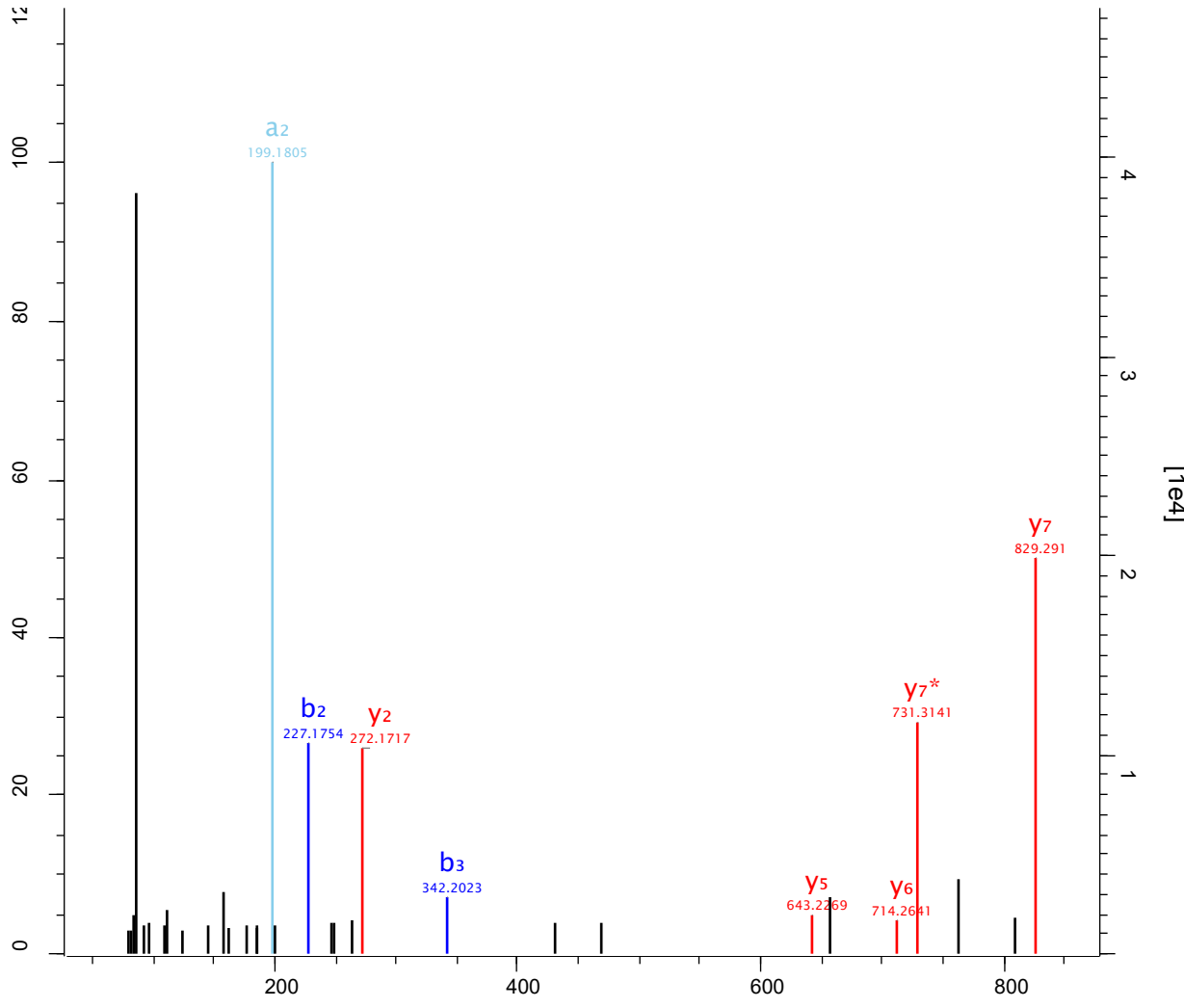


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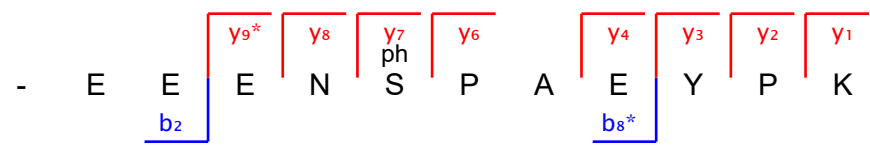
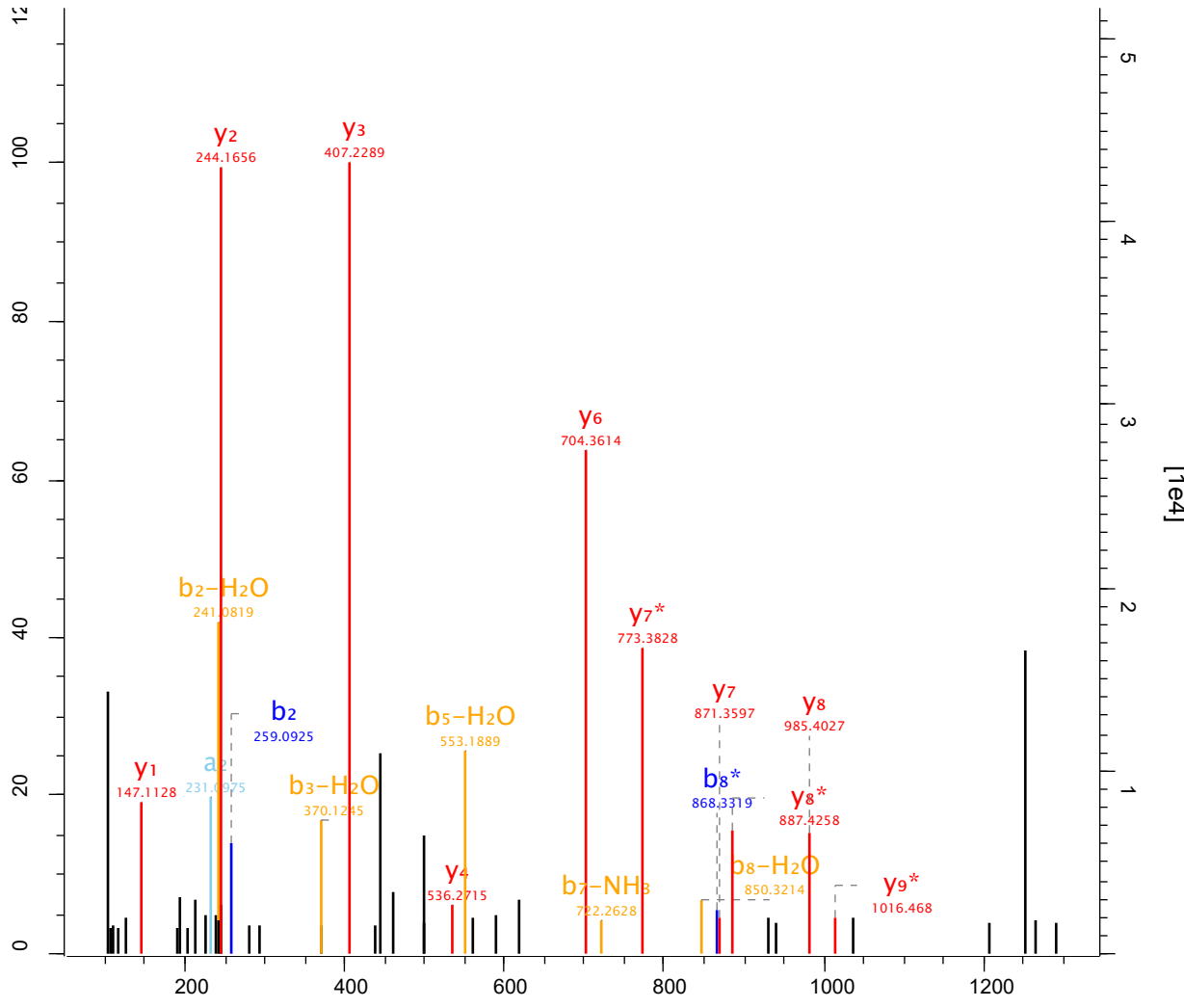


- E S S W E T G S N Q R -
 a2 b3 y9* y8 y7 y6 y5 y4 ph y3 y2 y1

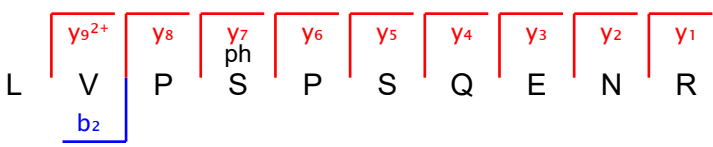
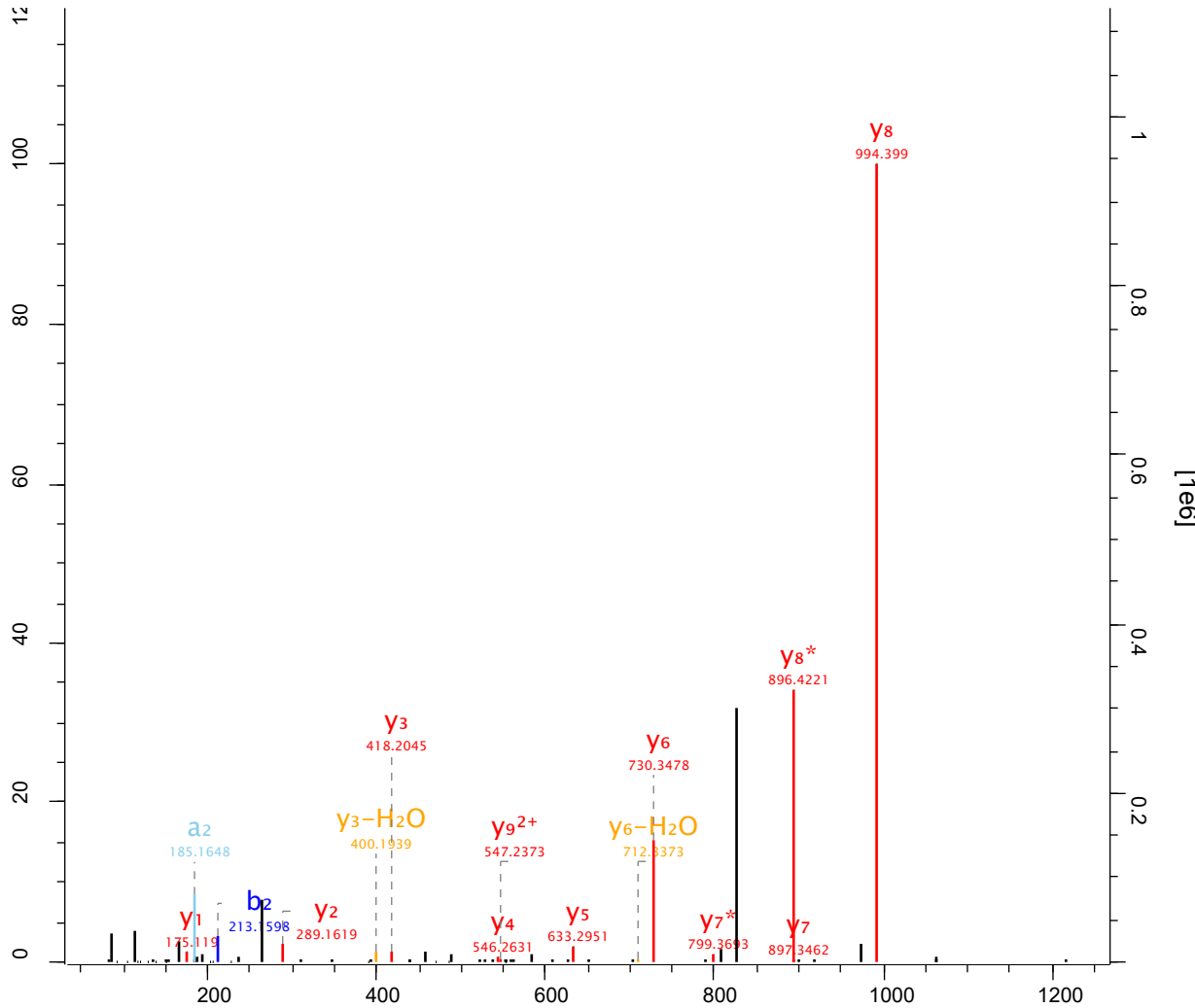
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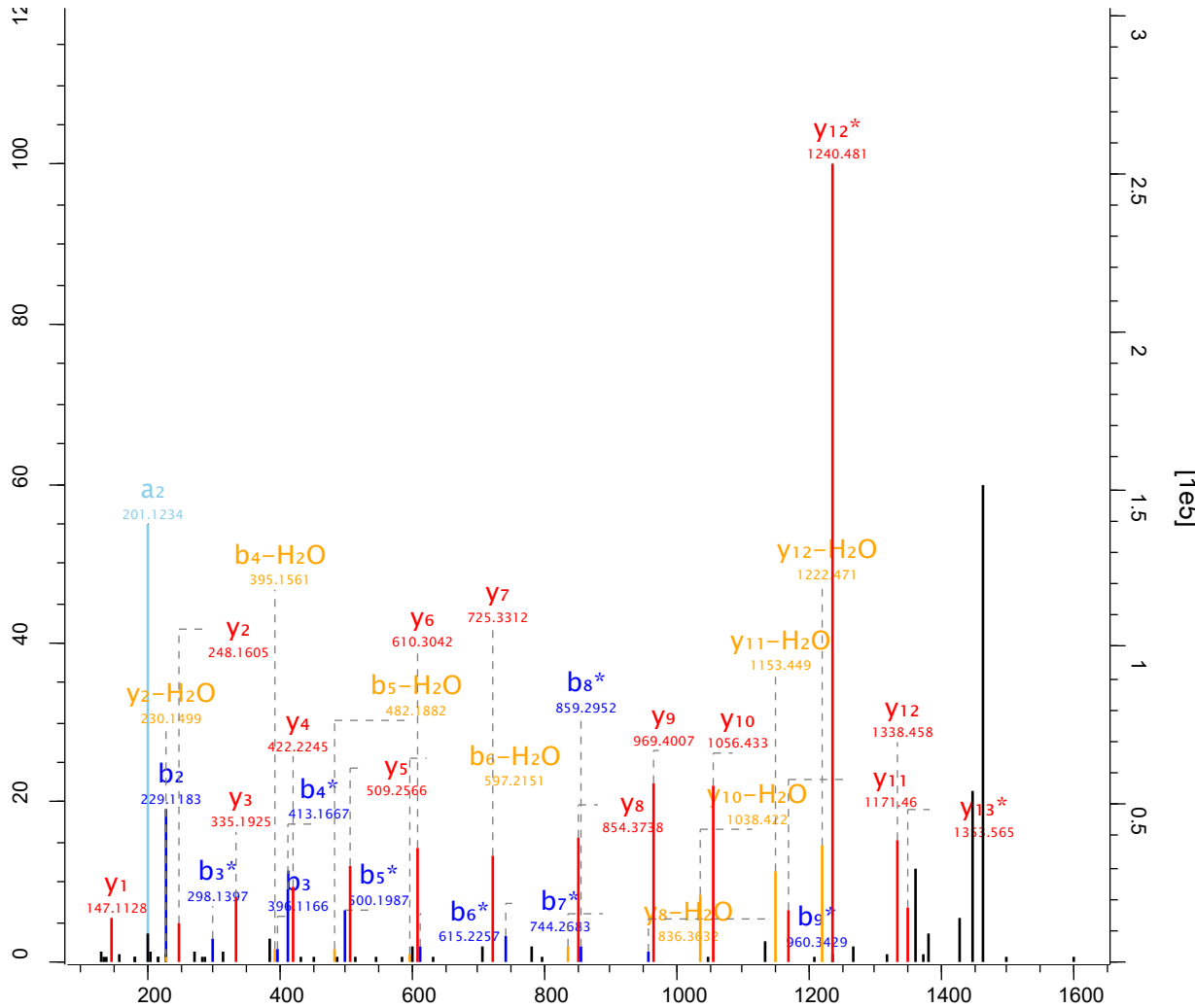
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Raw file Scan Method Score m/z
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Raw file Scan Method Score m/z
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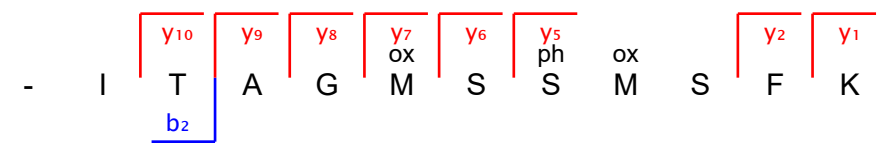
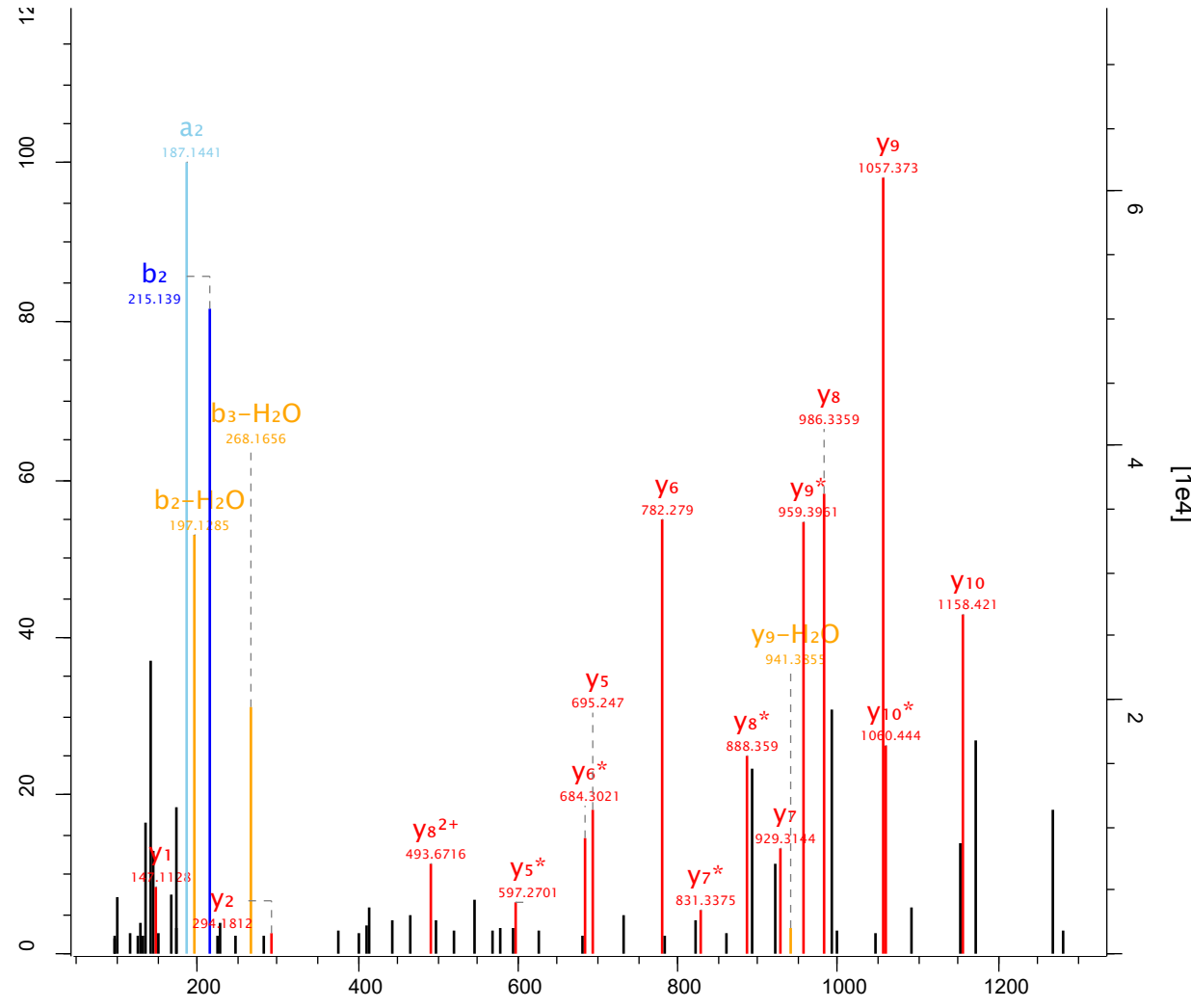


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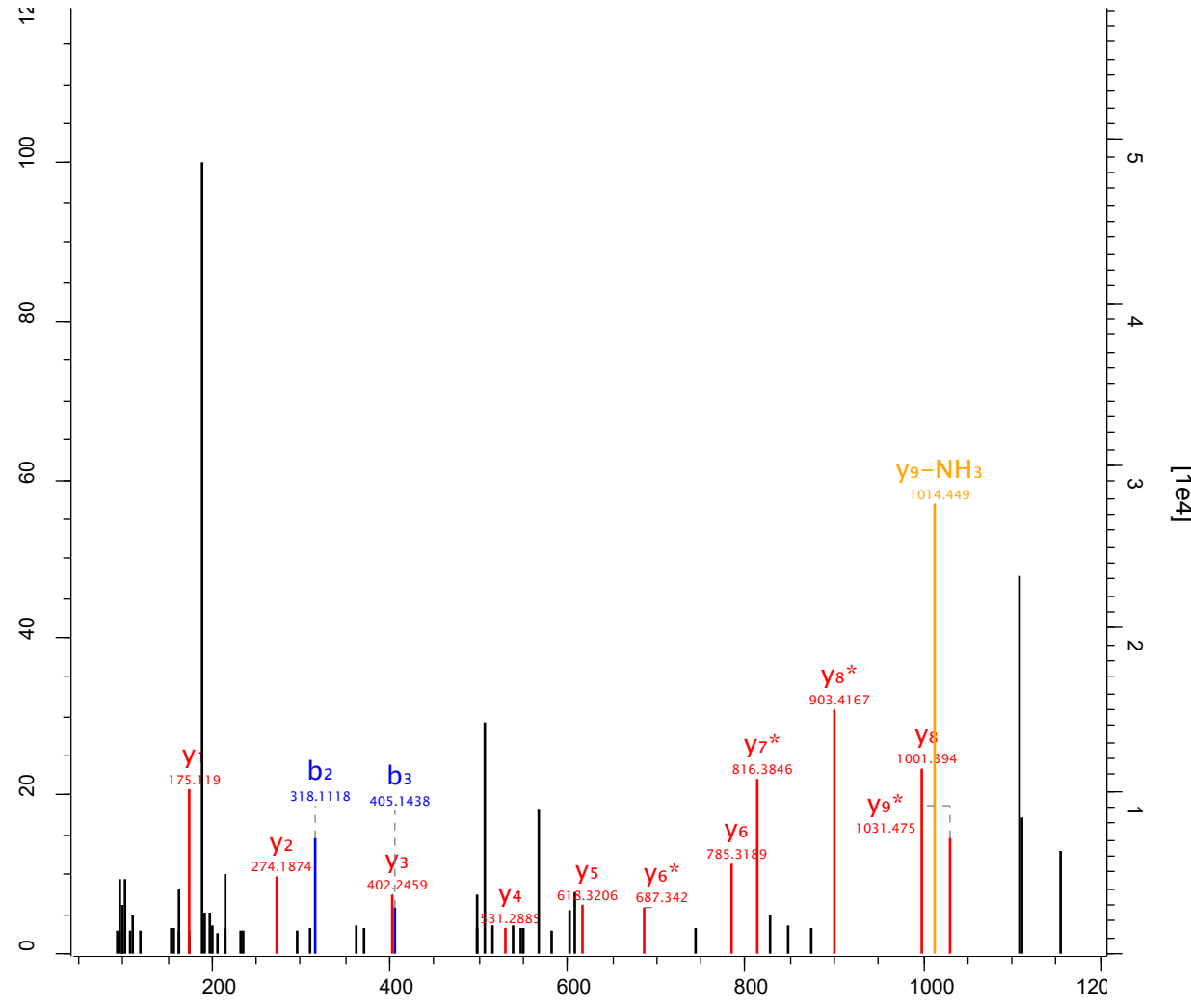
y13*
y12
y11
y10
y9
y8
y7
y6
y5
y4
y3
y2
y1

b2
b3
b4*
b5*
b6*
b7*
b8*
b9*

Raw file Scan Method Score m/z
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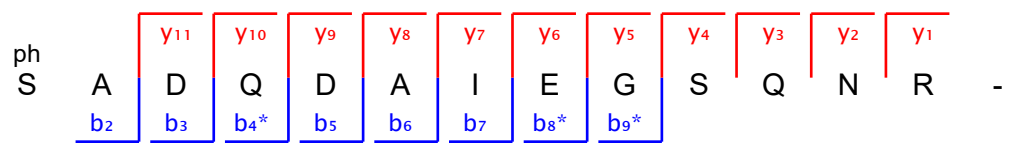
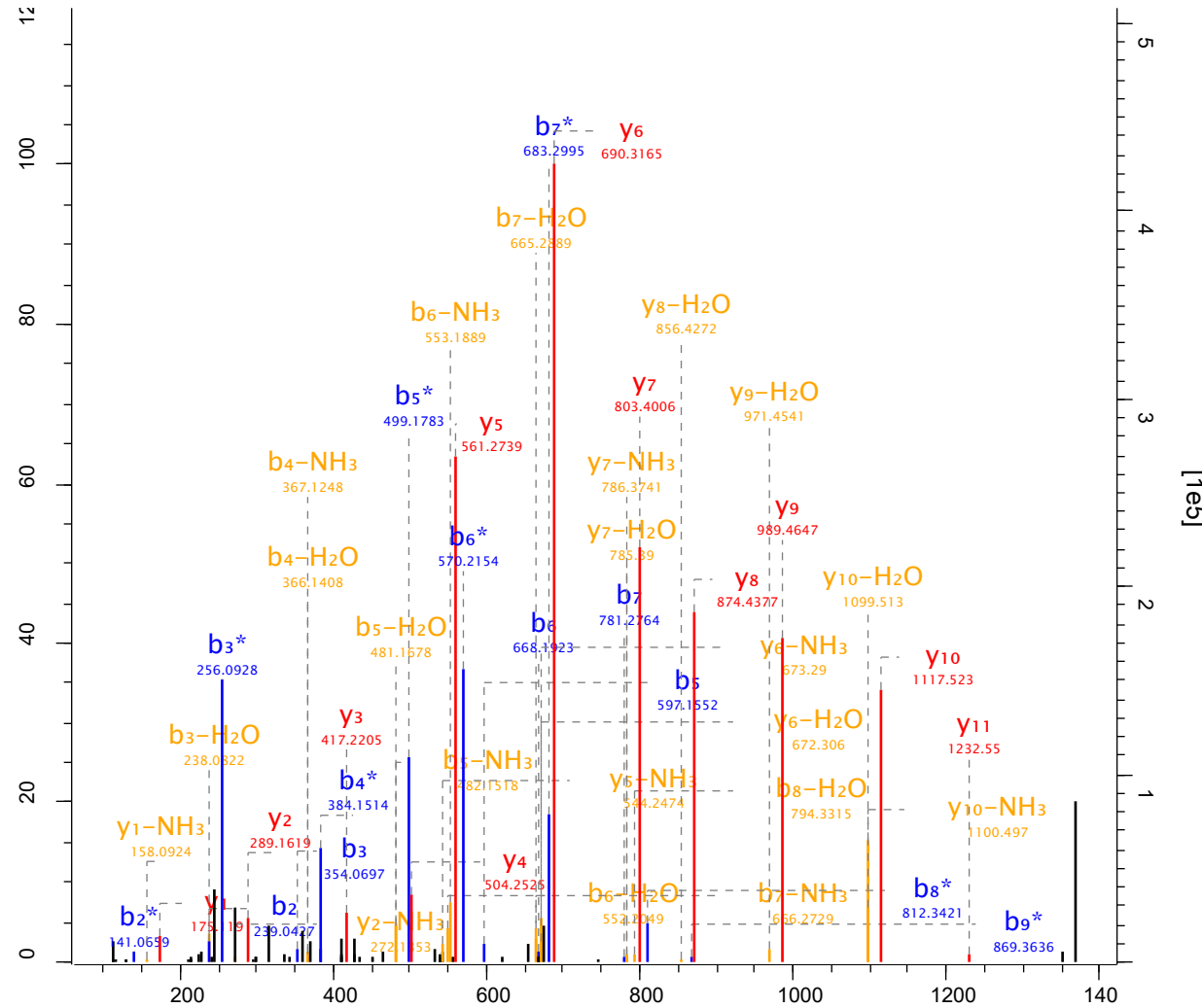


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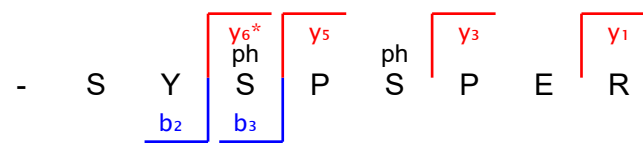
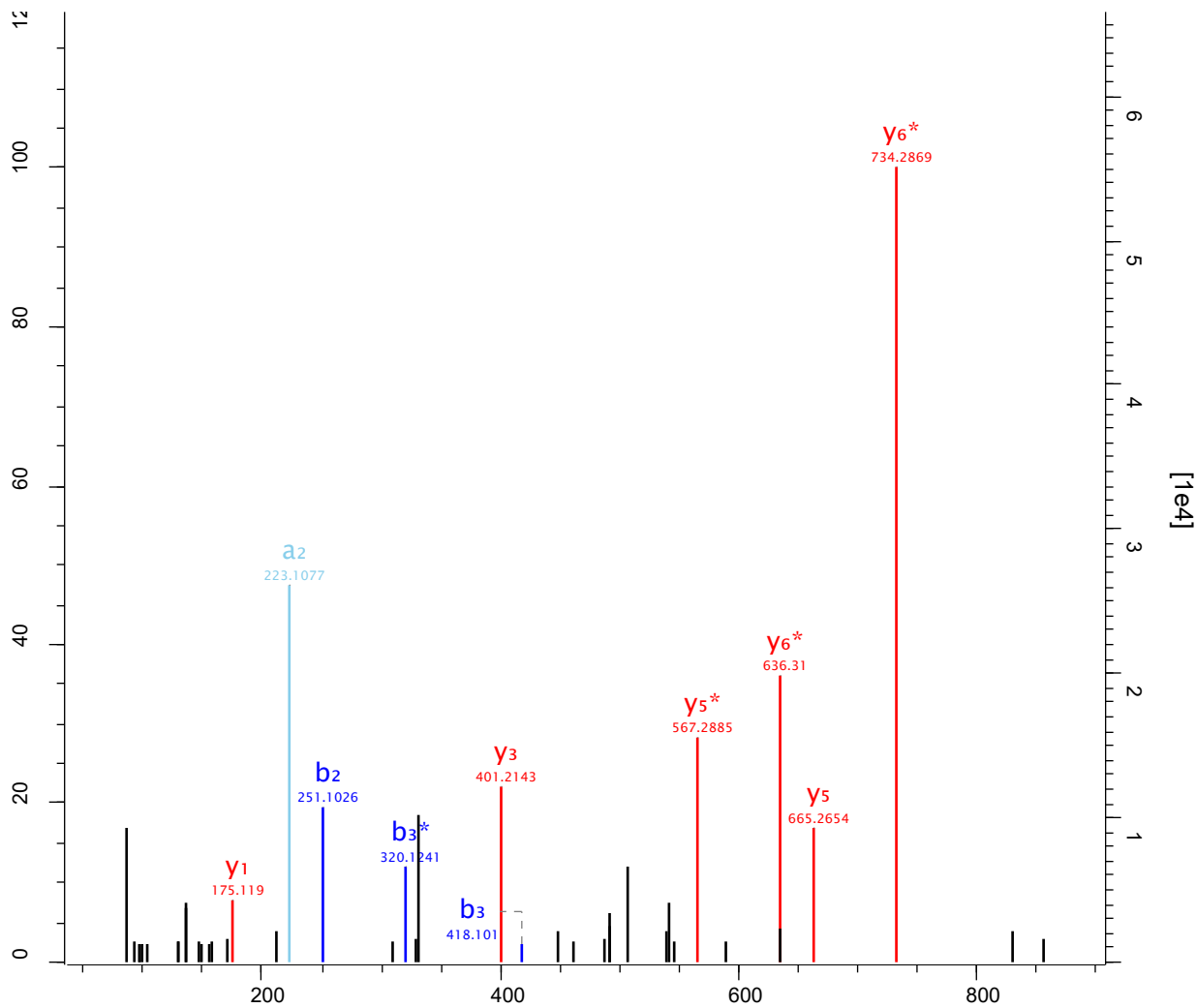


ac ox M Q S E S S E Q V R -
 b2 b3

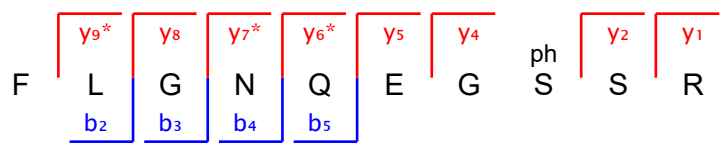
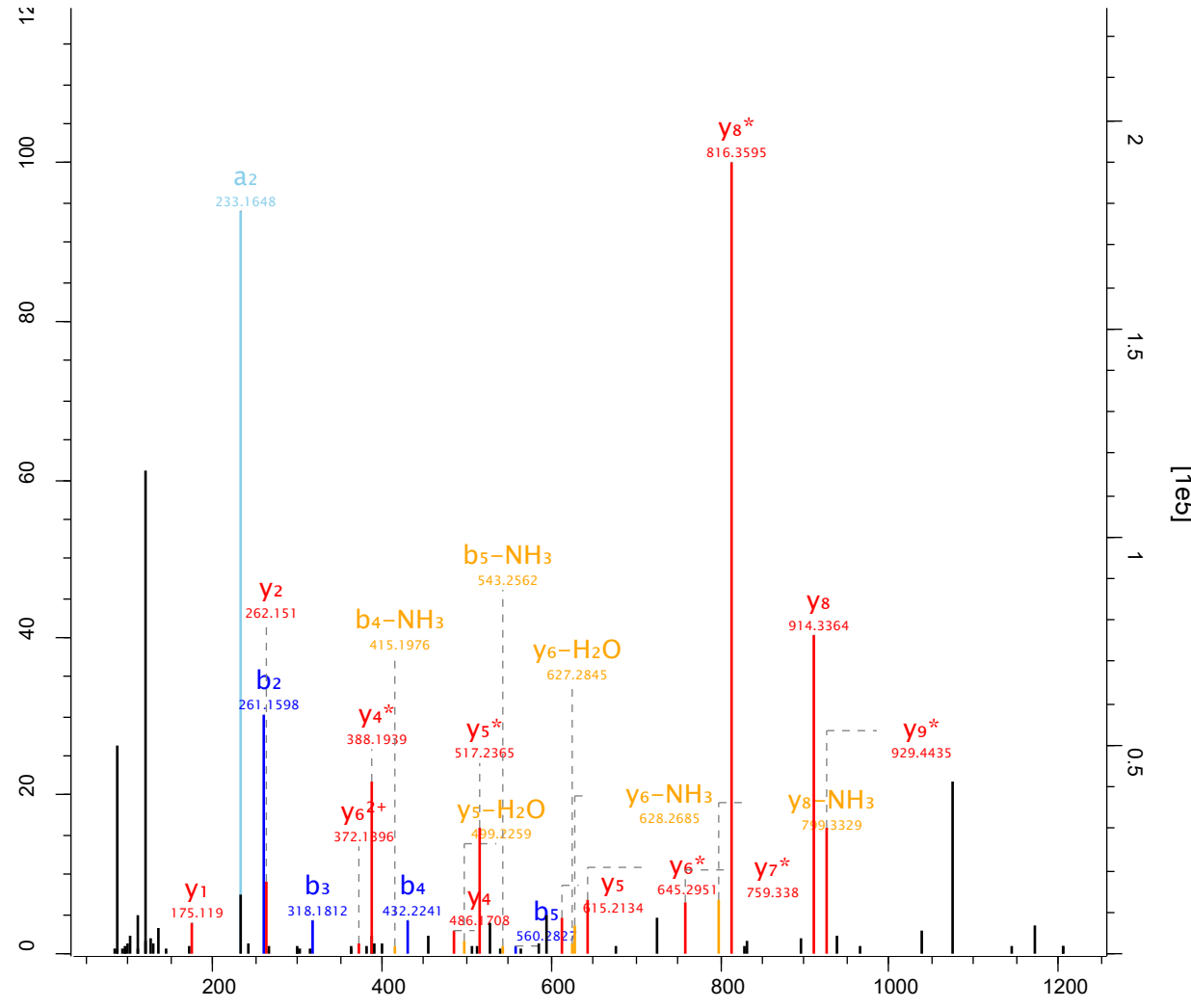
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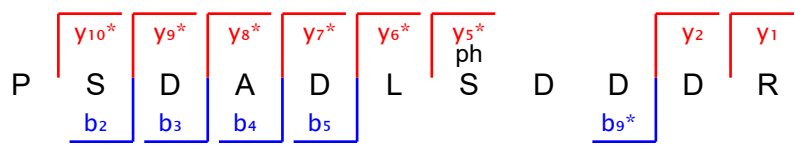
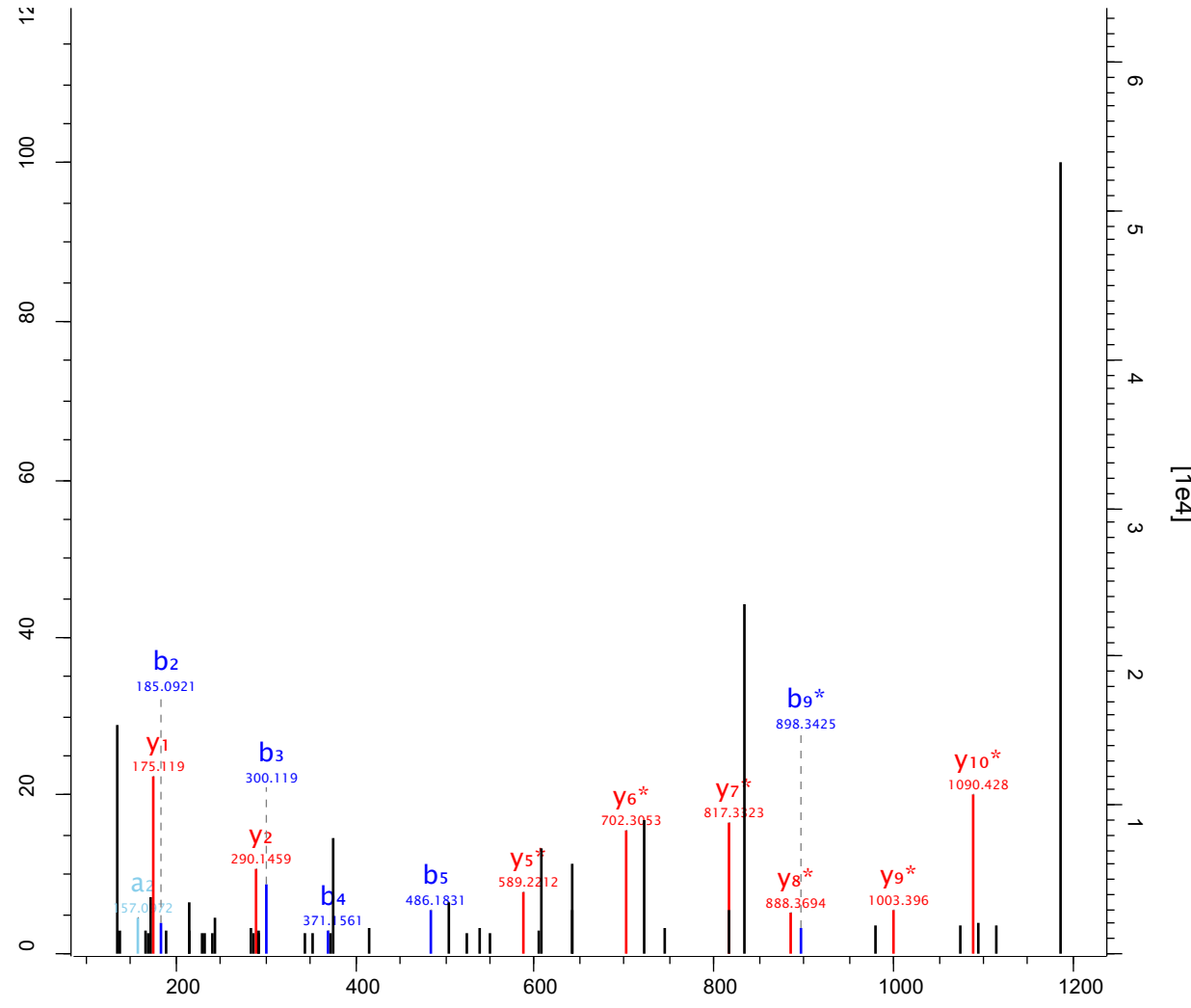
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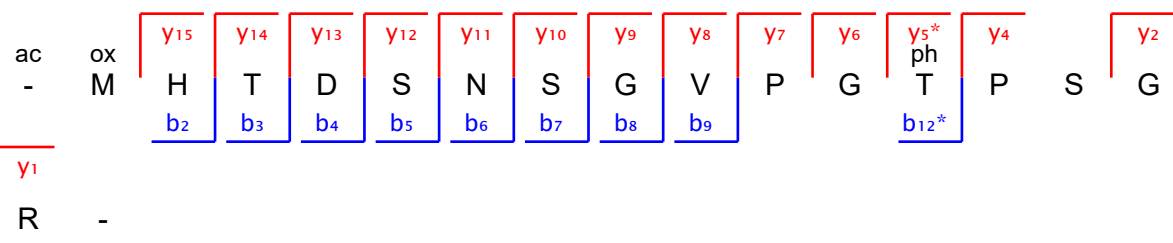
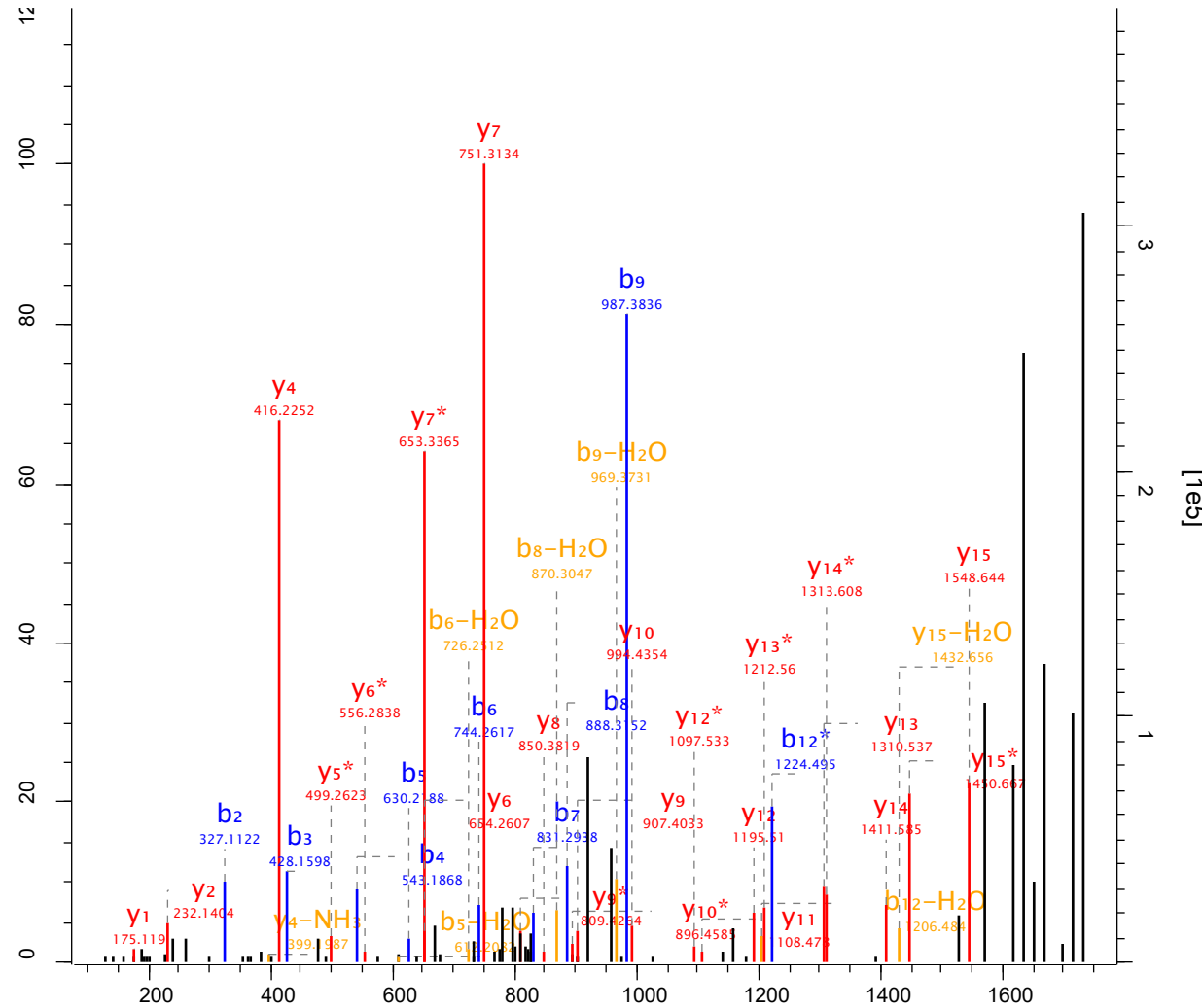
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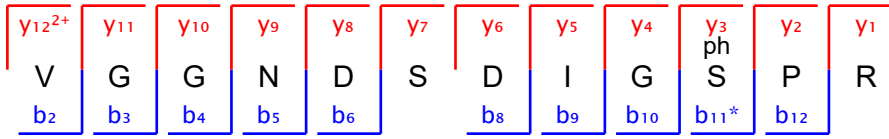
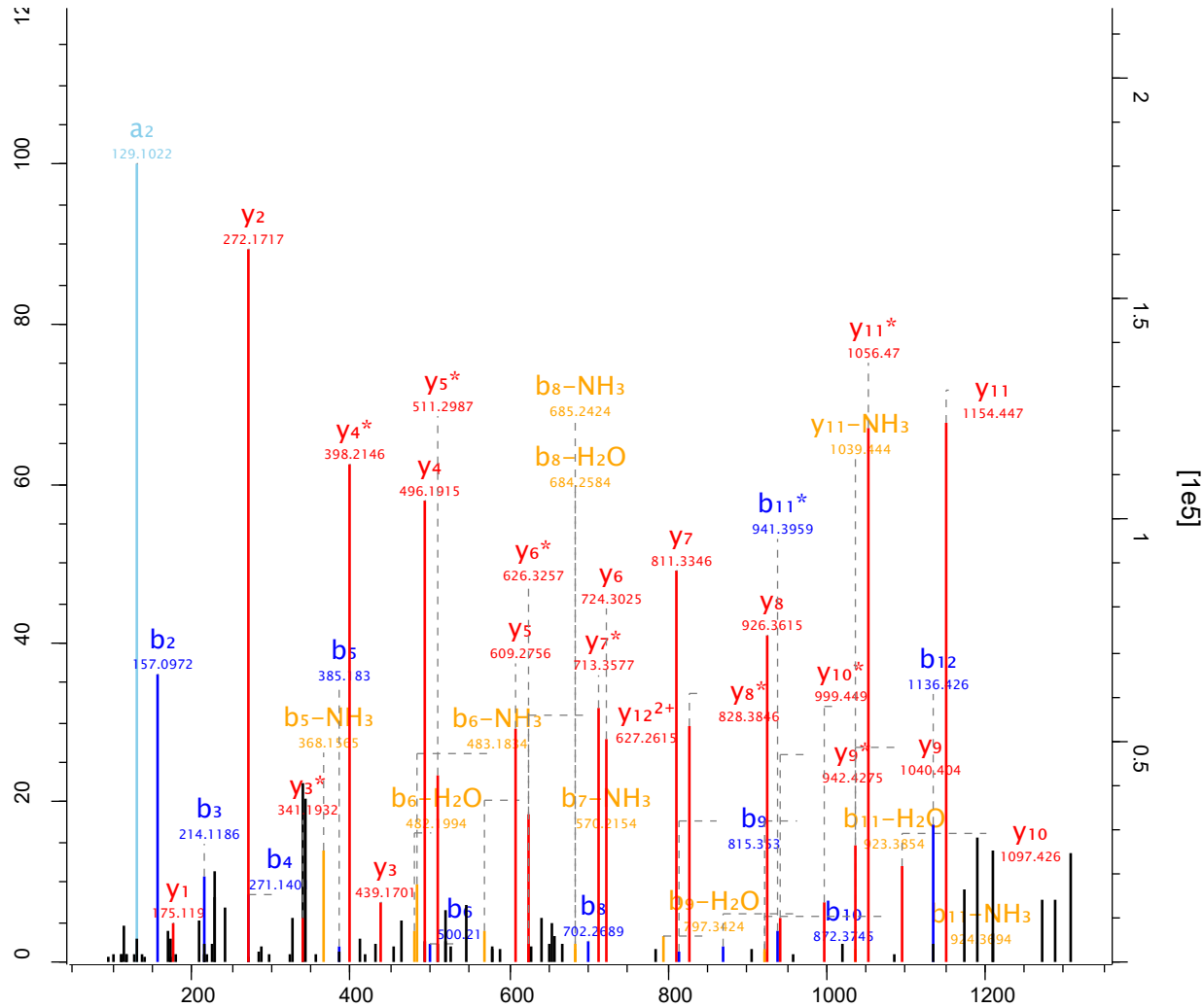
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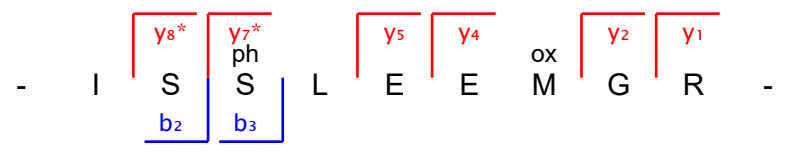
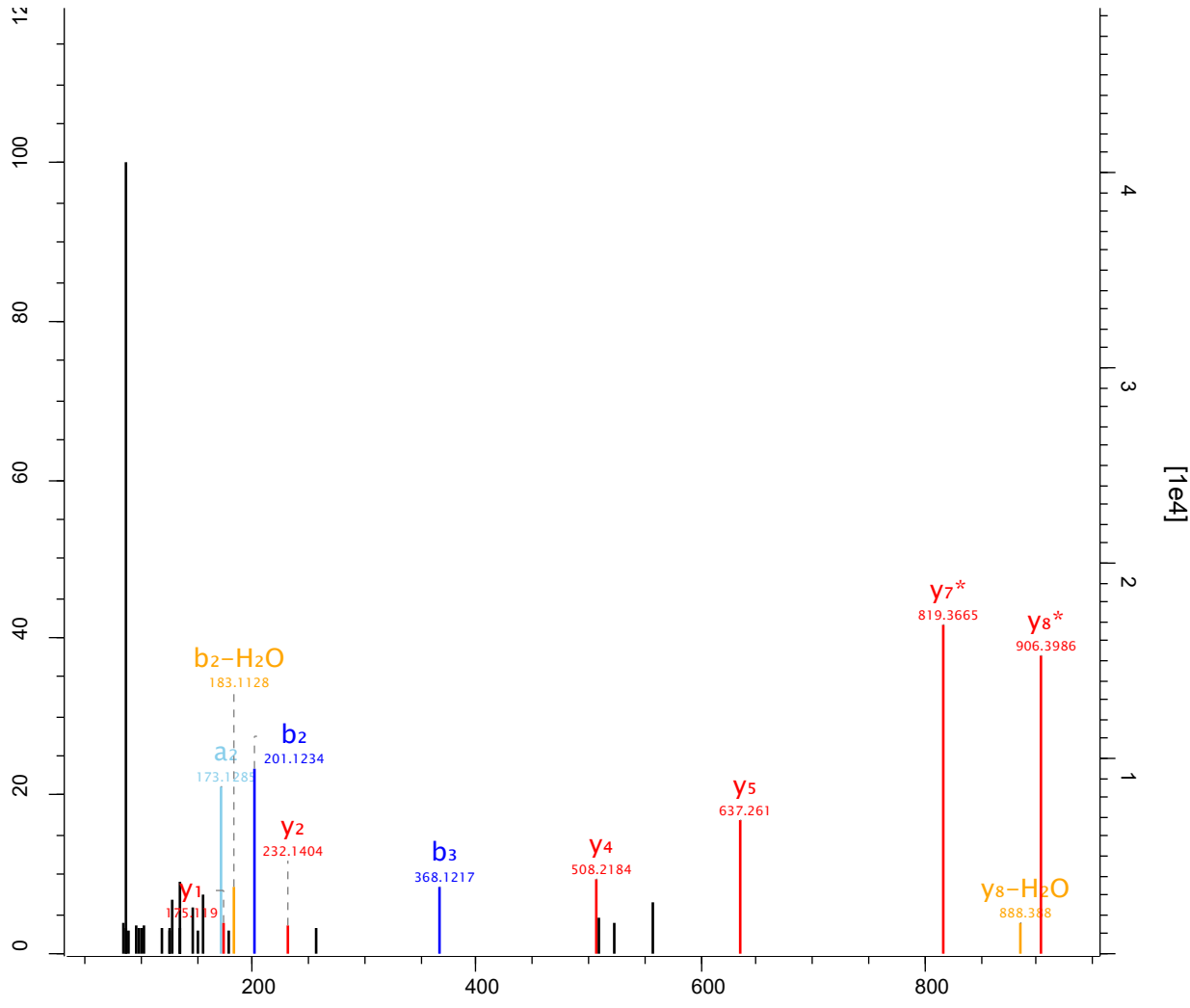
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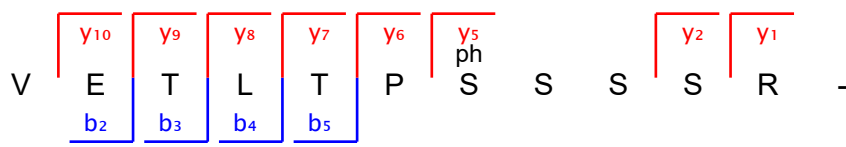
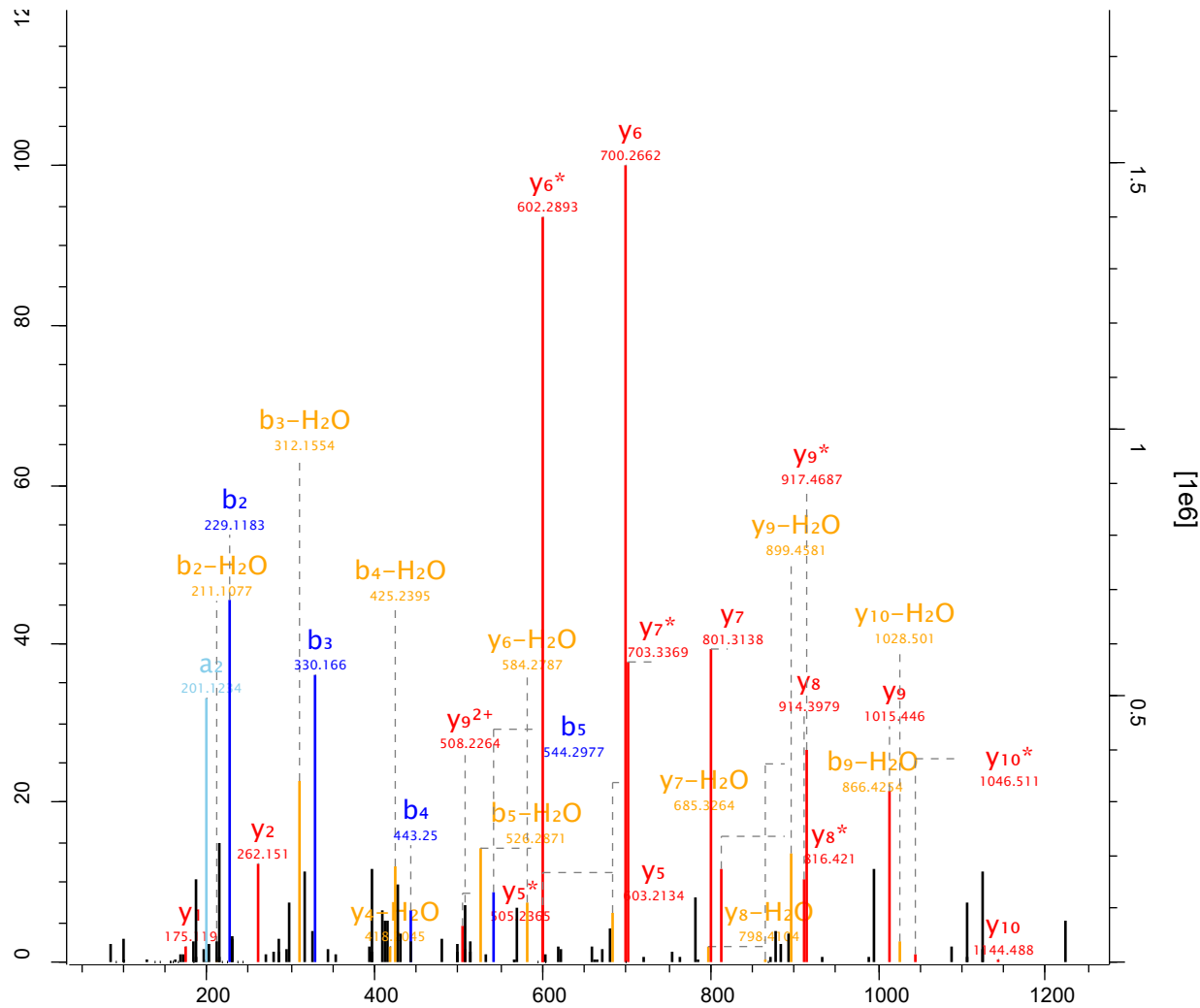
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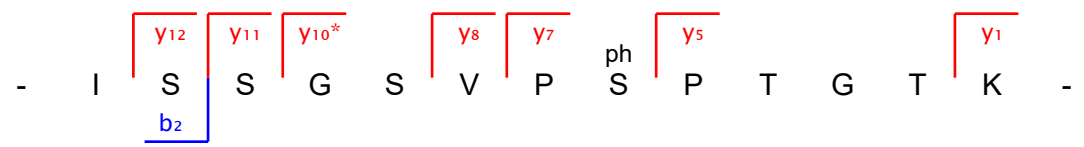
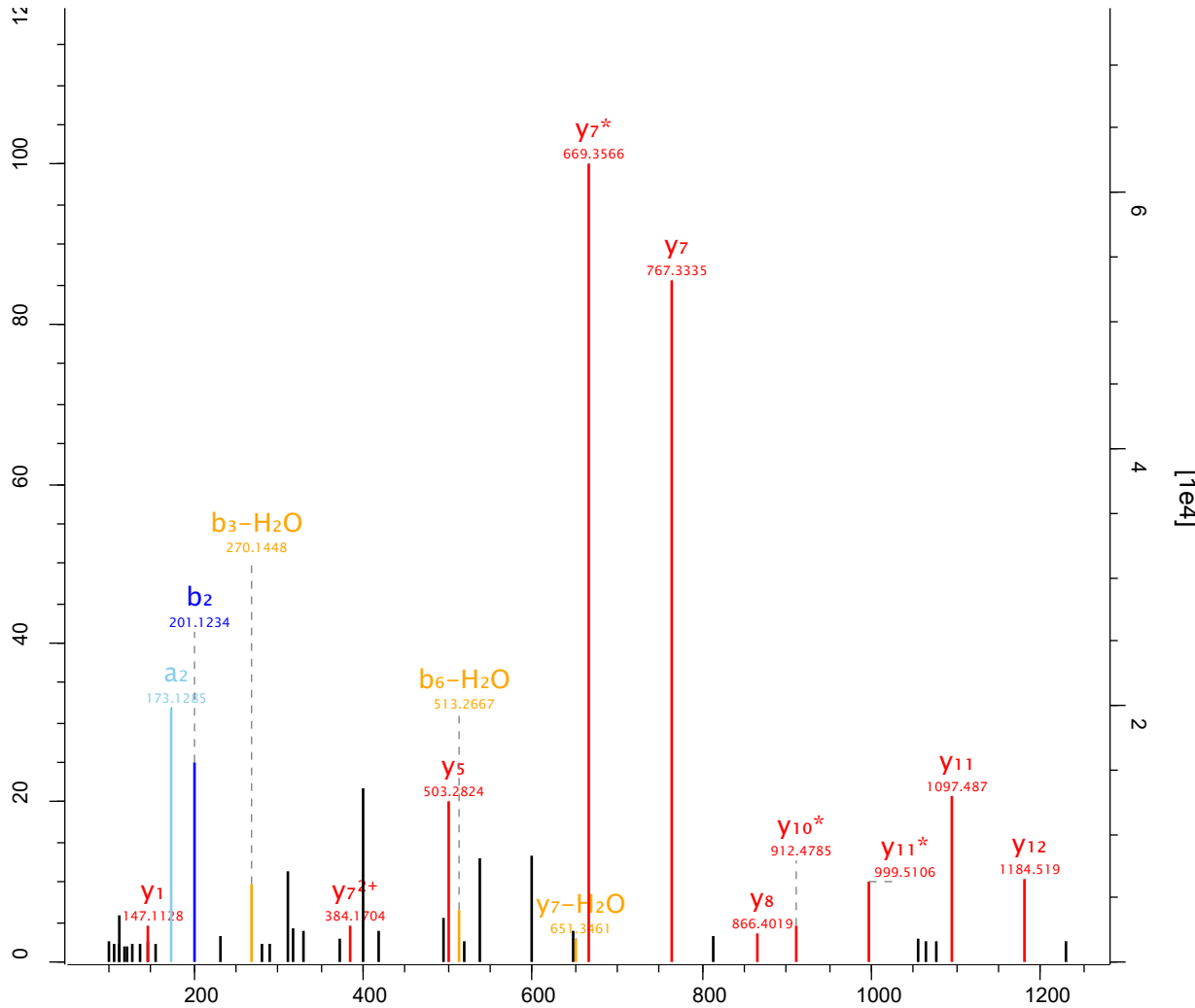
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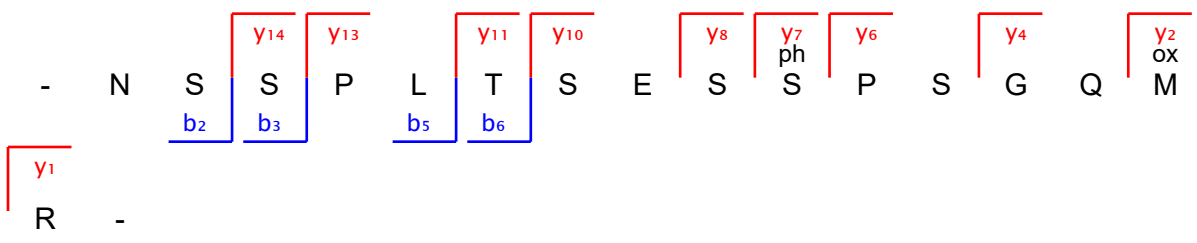
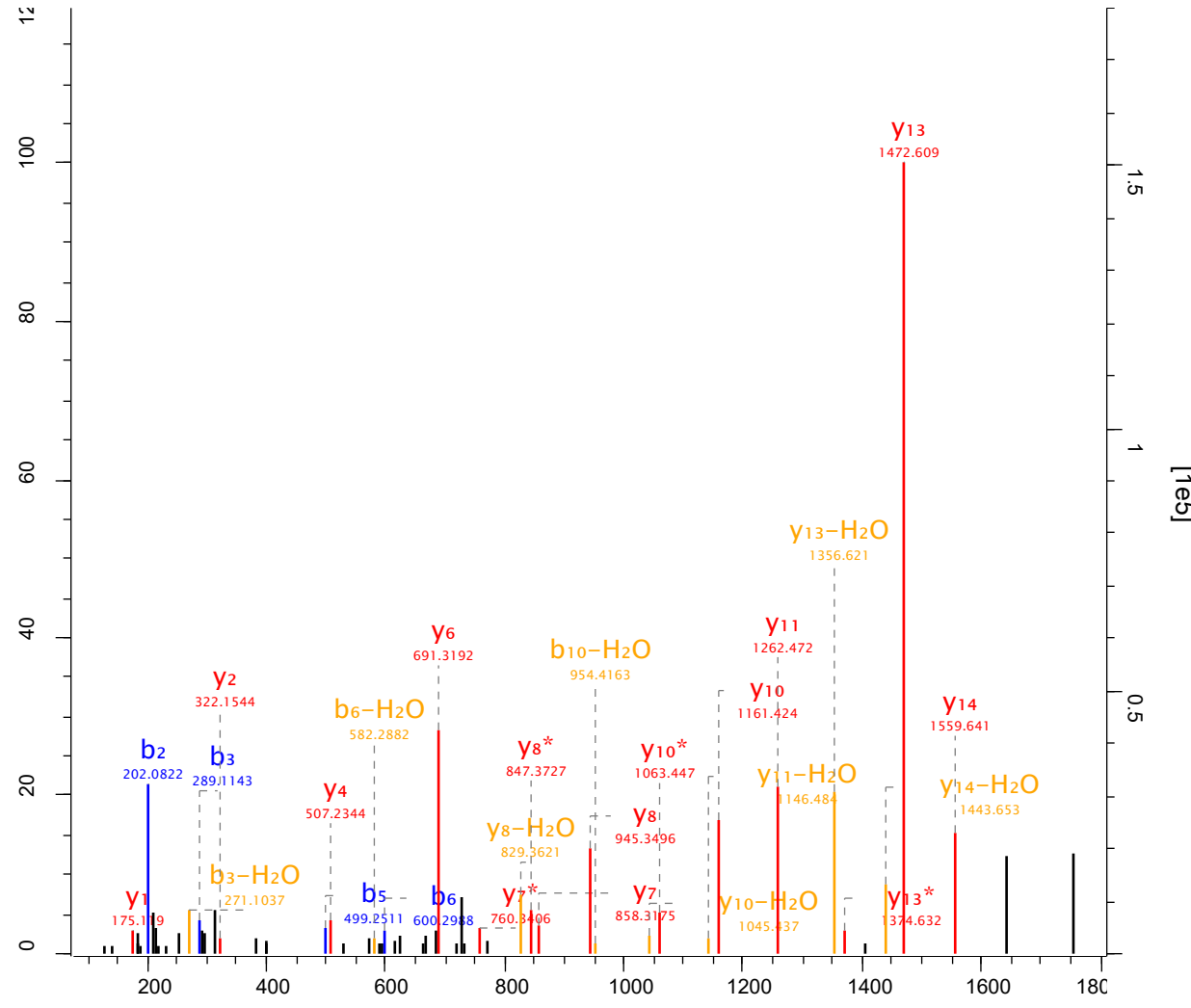
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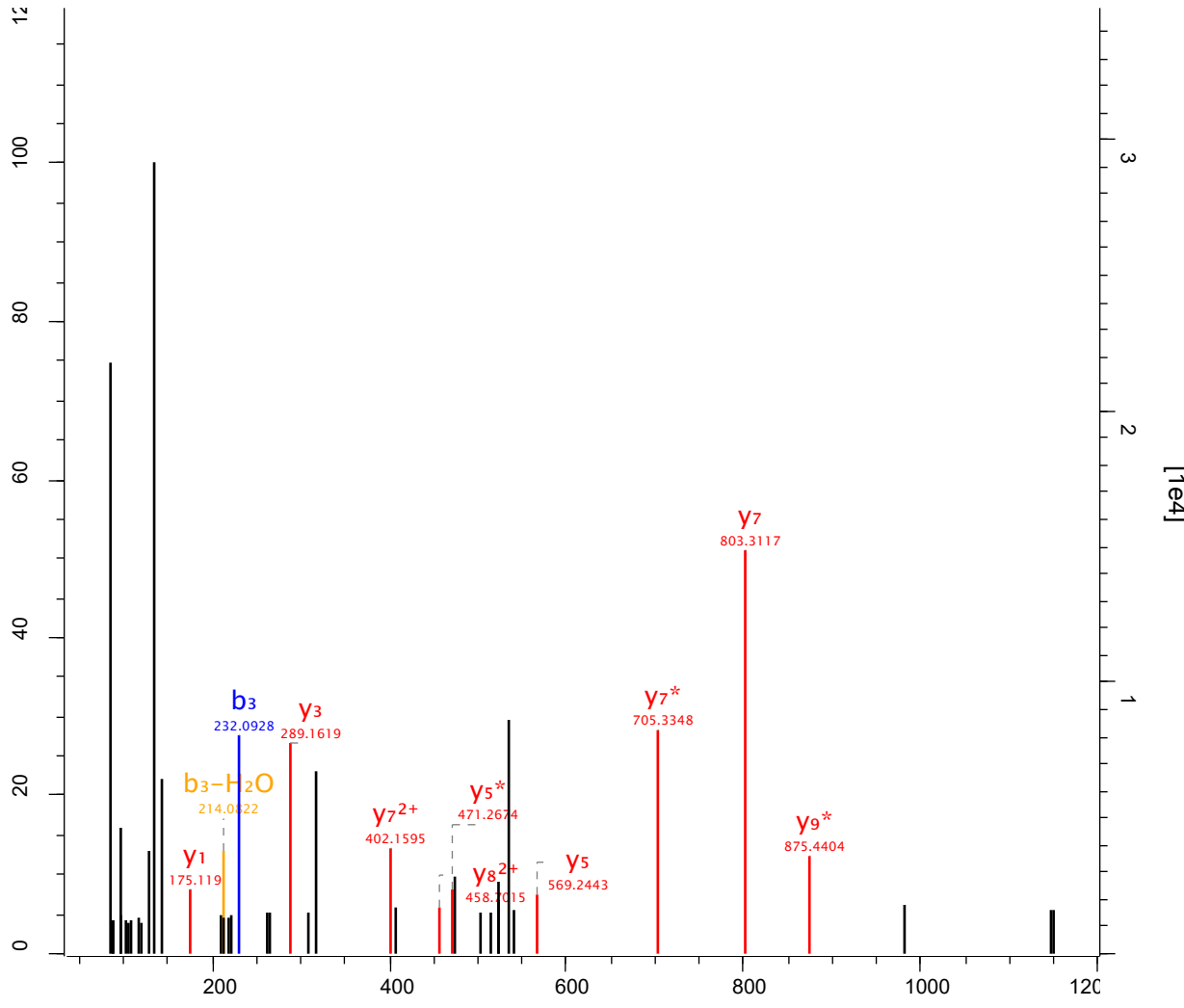
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Raw file Scan Method Score m/z
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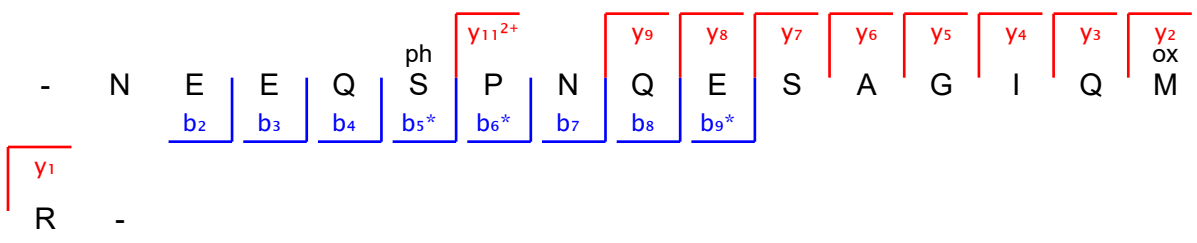
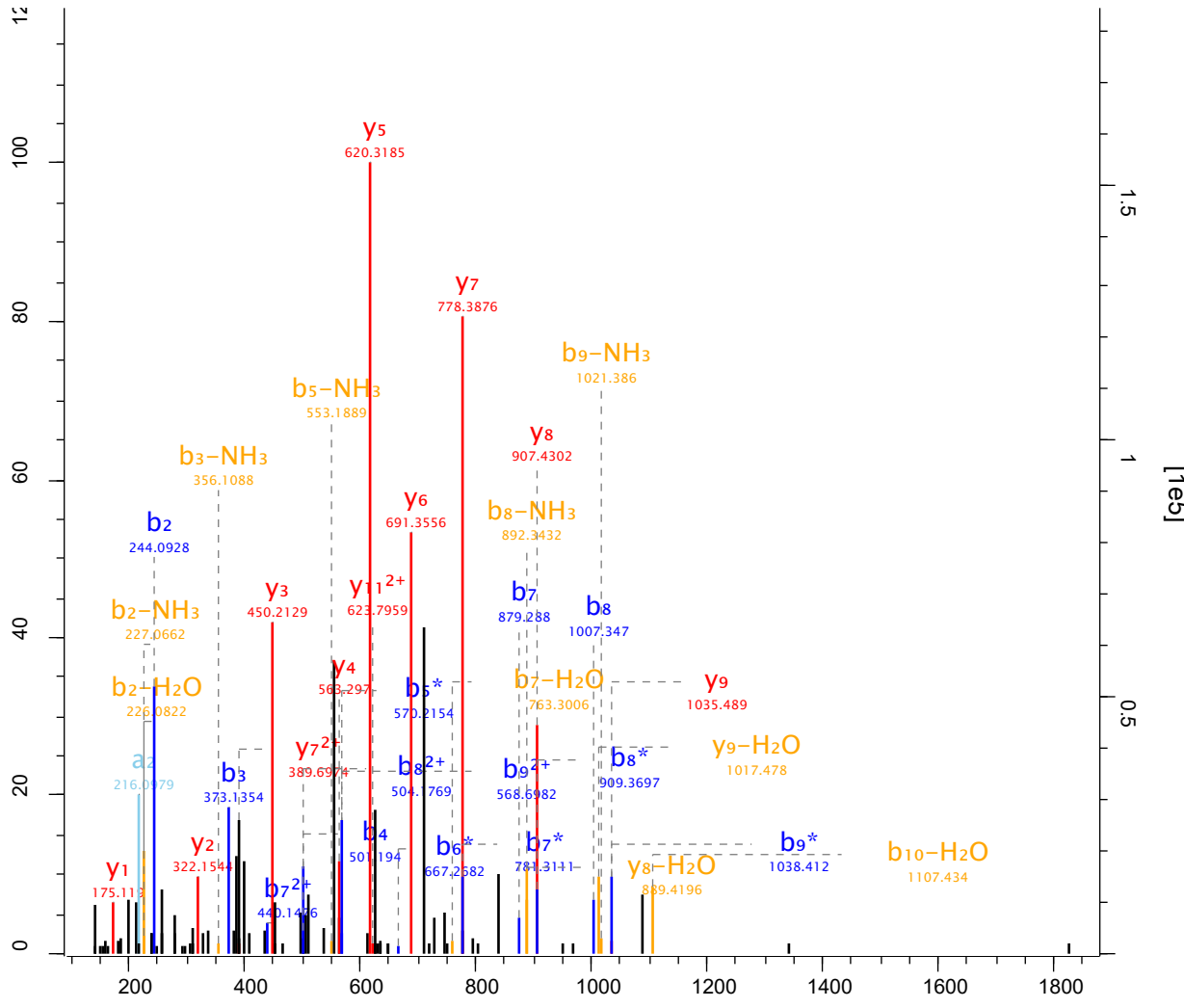
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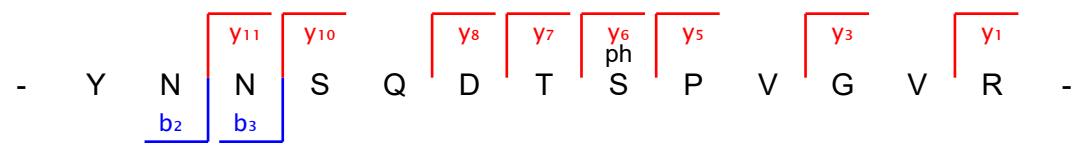
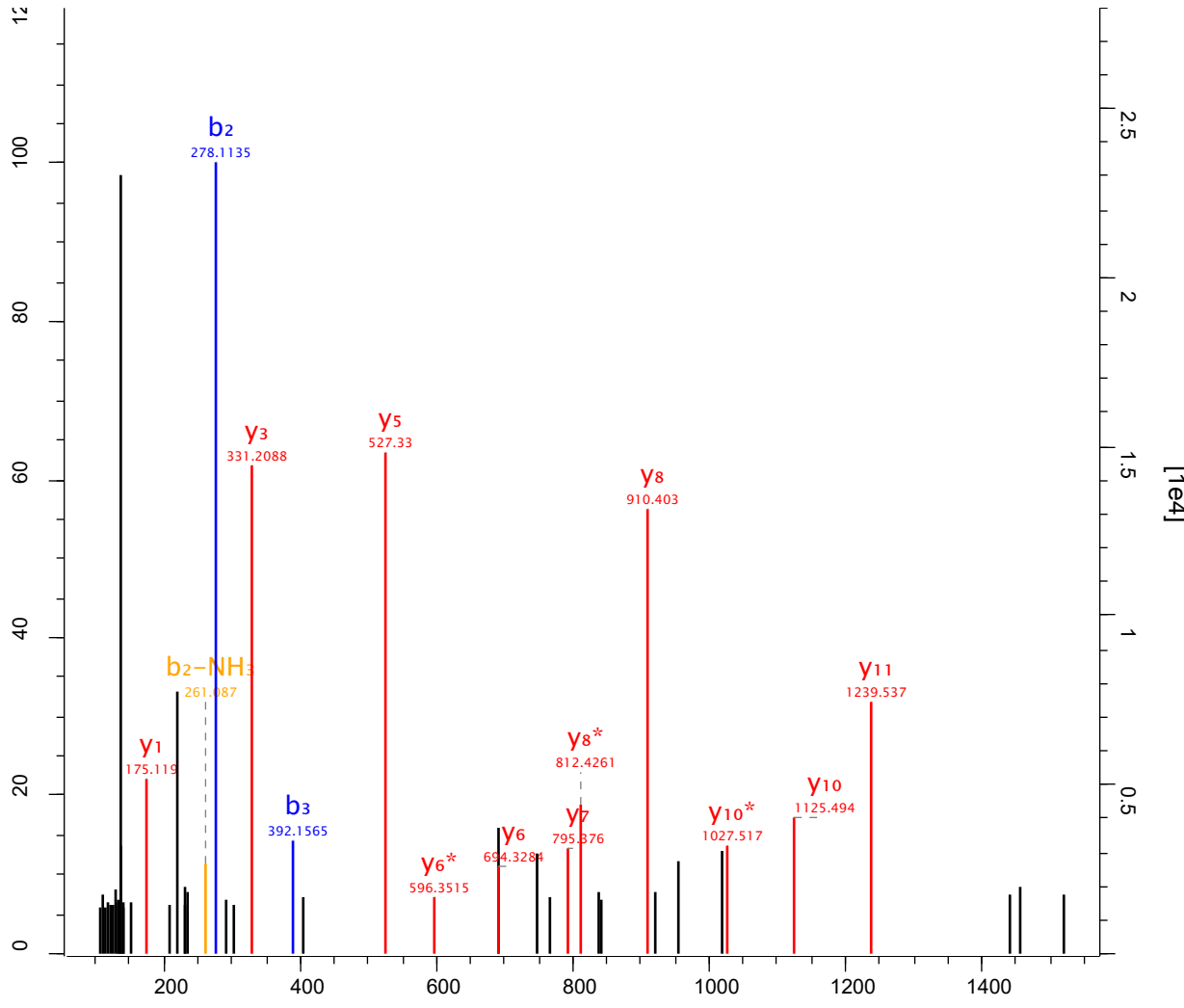
- S S y9* y8 2+ y7 ox y5
ph I y3 G G y1 -

b3

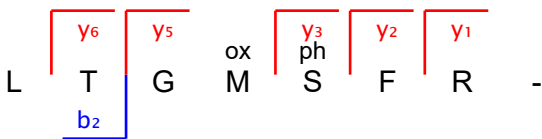
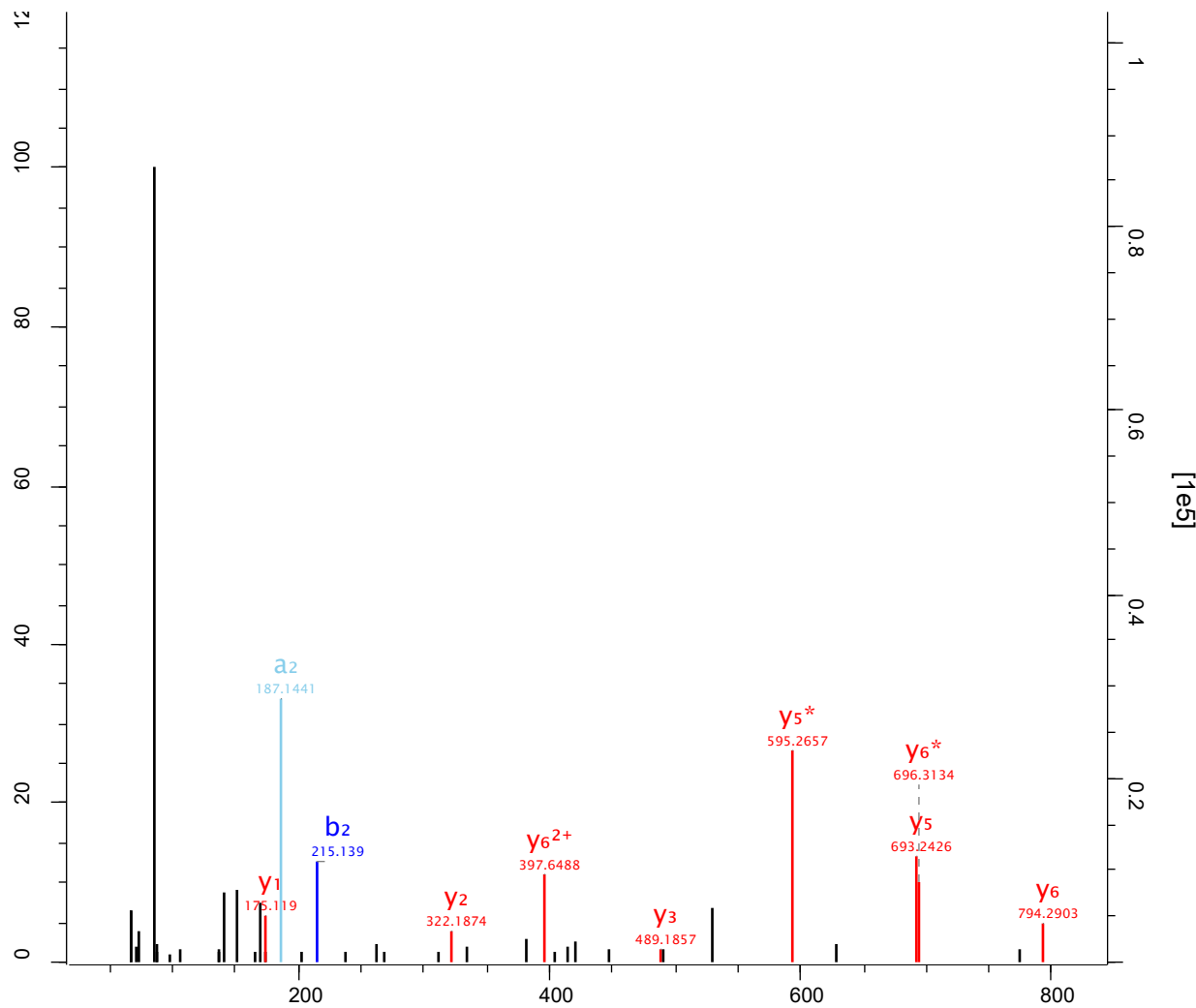
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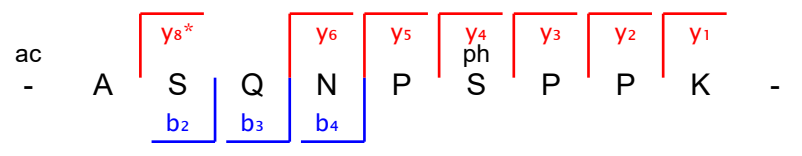
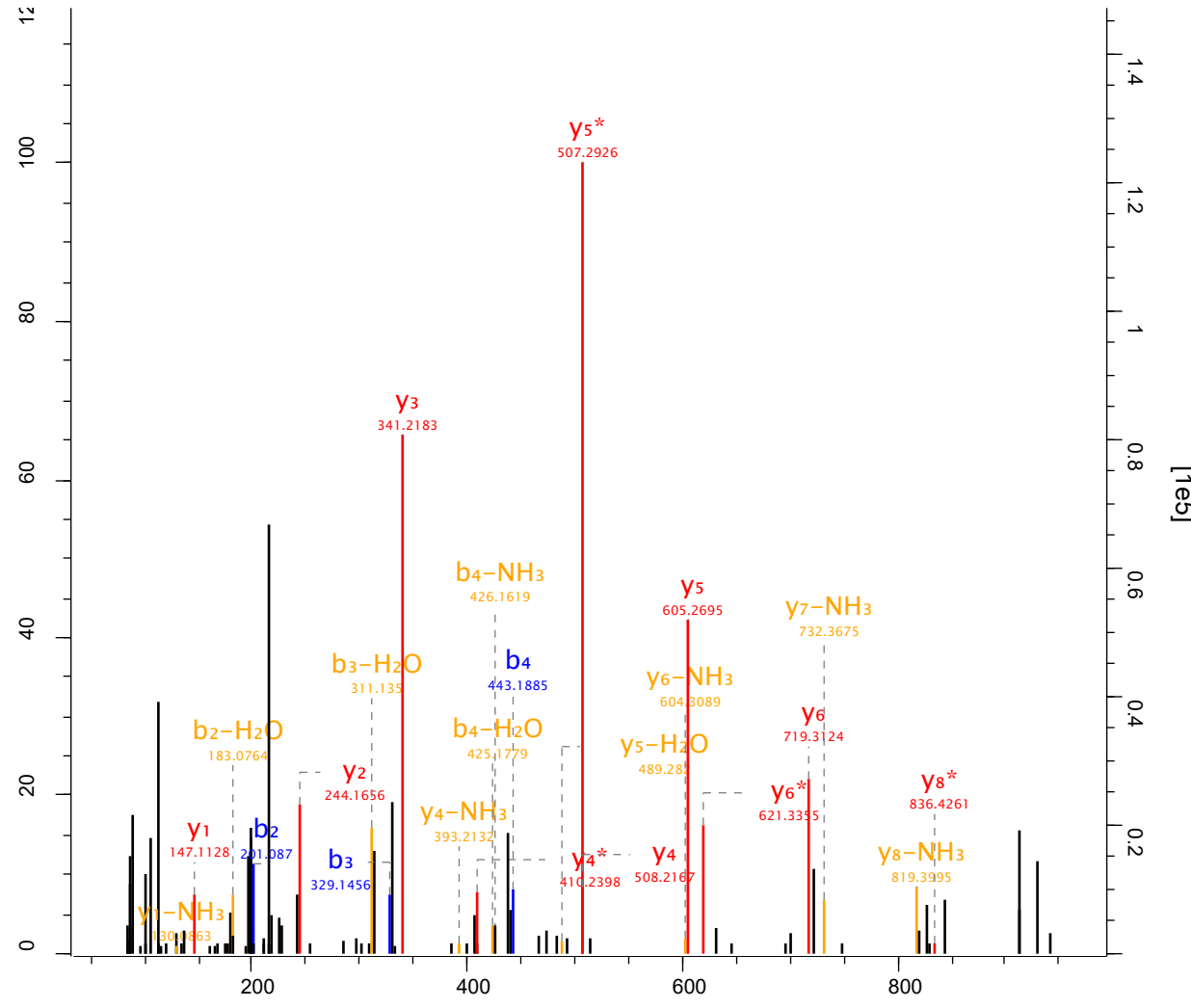
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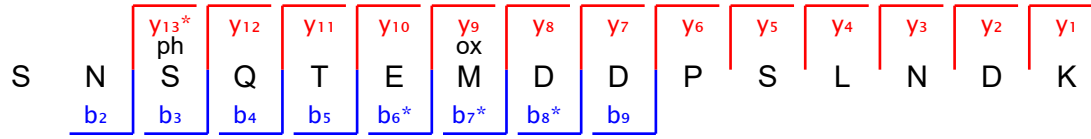
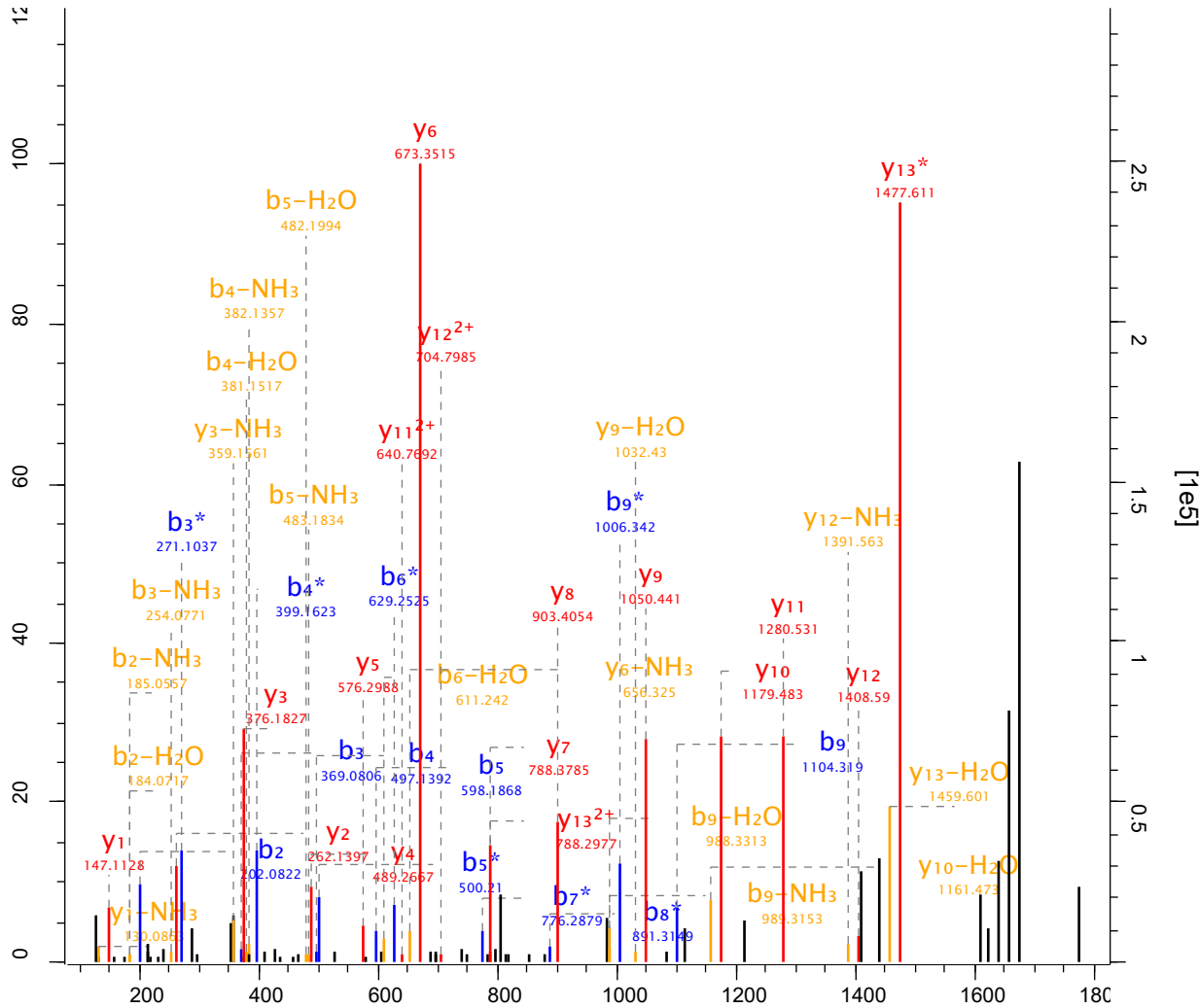
Raw file	Scan	Method	Score	m/z
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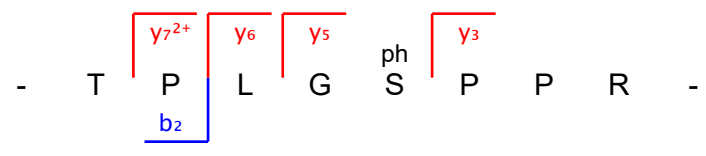
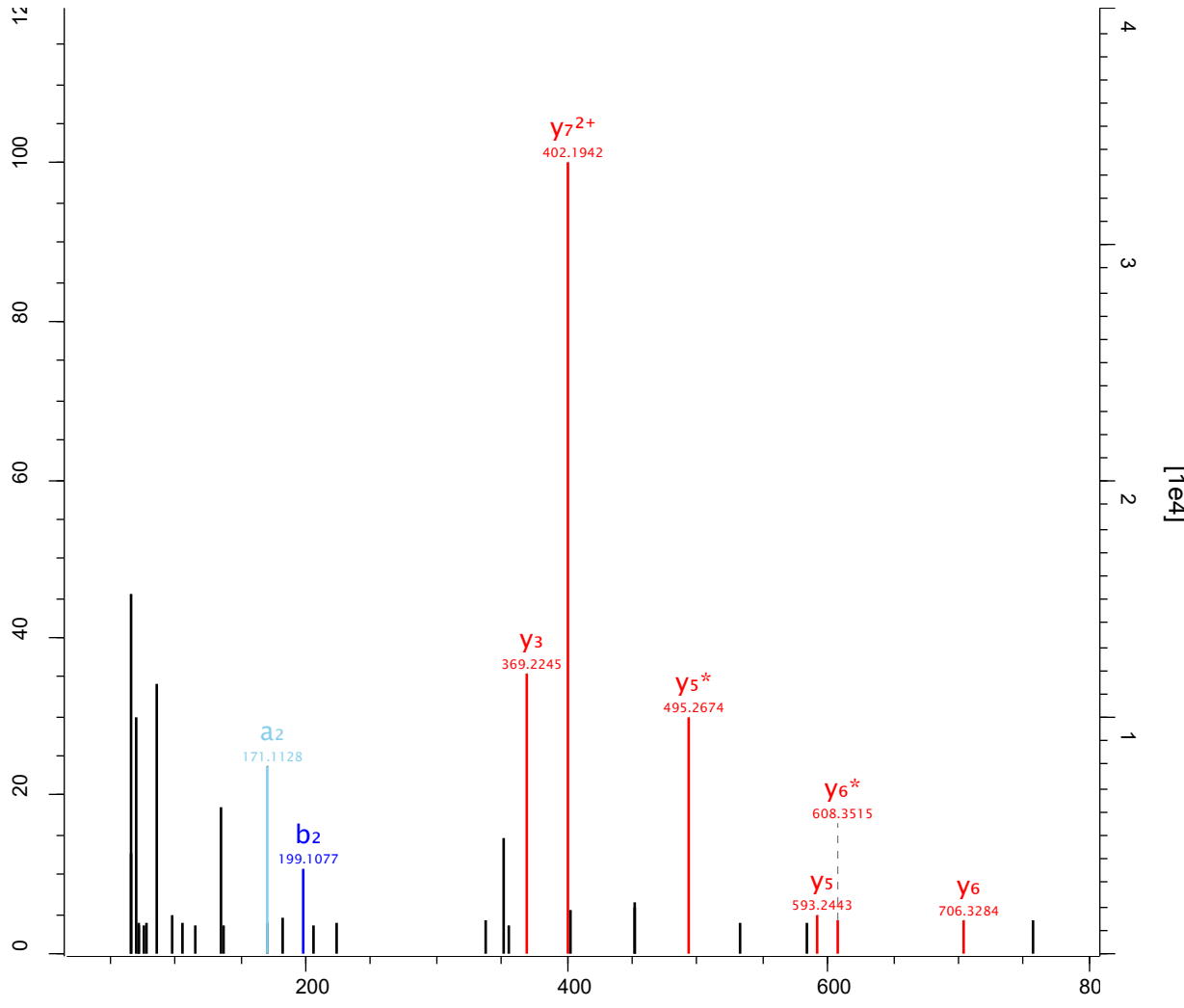
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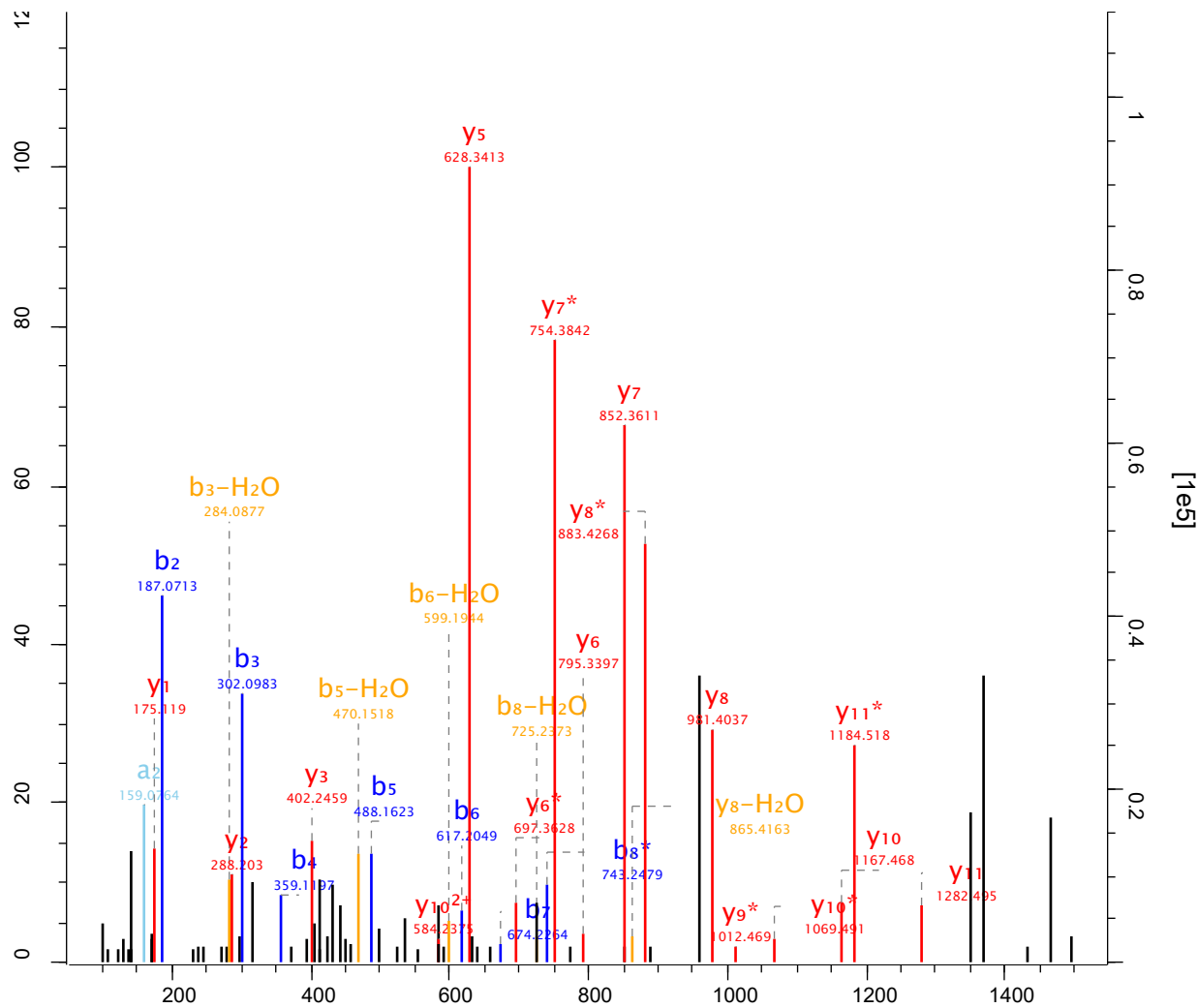
Raw file Scan Method Score m/z
 sys_15_1 9115 FTMS; HCD 197.41 888.84



Raw file	Scan	Method	Score	m/z
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Raw file Scan Method Score m/z
 sys_15_1 9177 FTMS; HCD 174.59 734.78

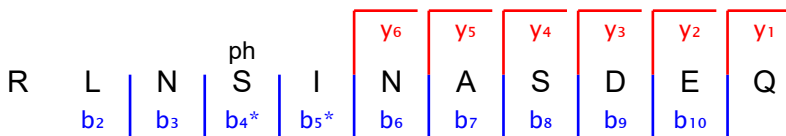
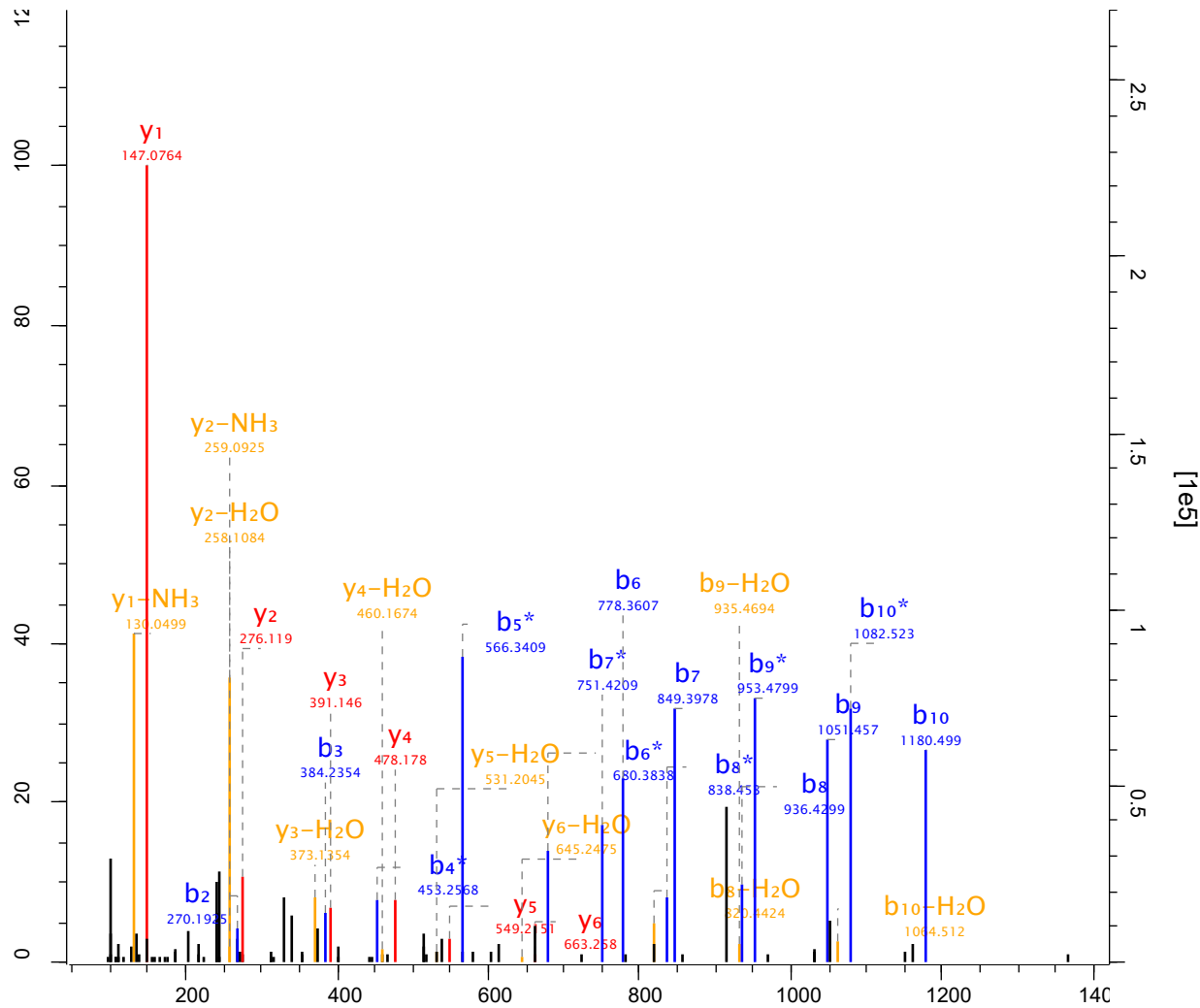


- G E D G E E G S P E N I R -

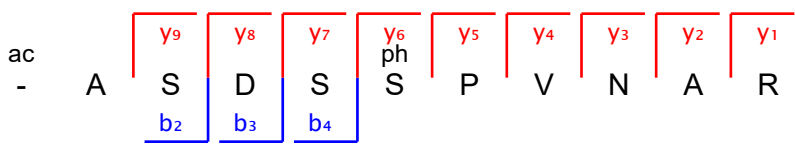
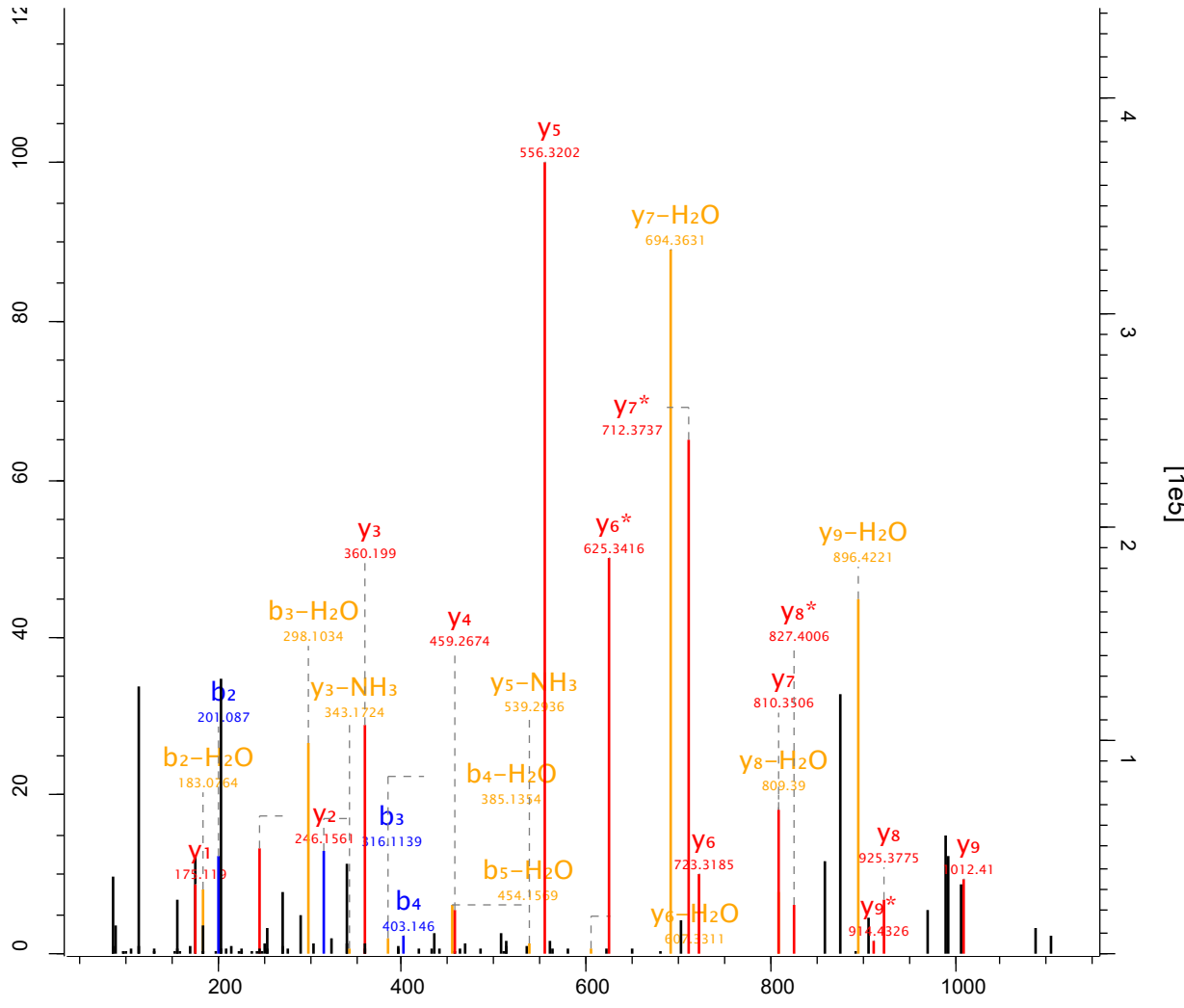
b₂
y₁₁
y₁₀
y₉*
y₈
y₇
y₆ph
y₅
y₃
y₂
y₁

b₃
b₄
b₅
b₆
b₇
b₈*

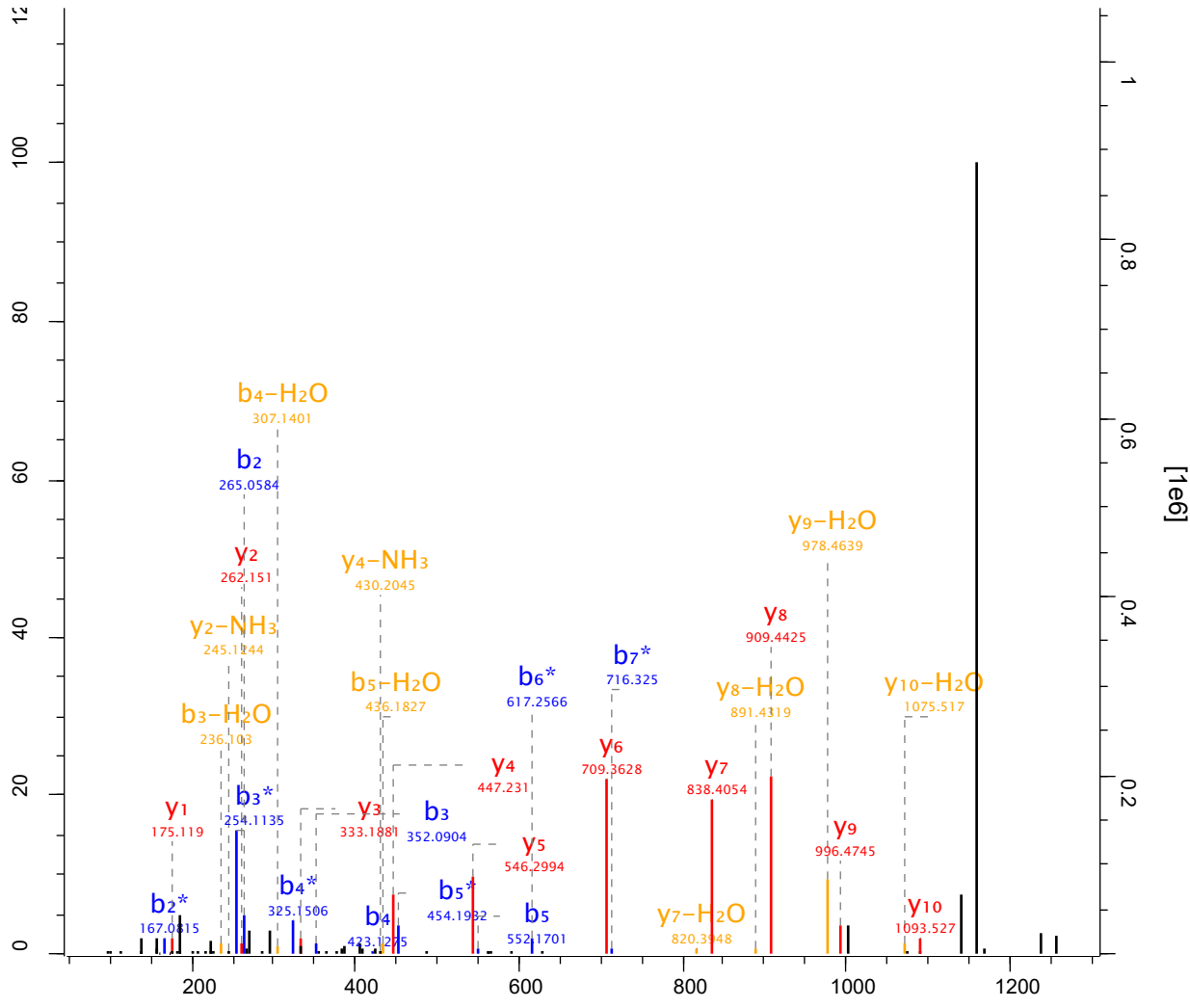
Raw file Scan Method Score m/z
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Raw file Scan Method Score m/z
 sys_15_1 9379 FTMS; HCD 160.22 563.23



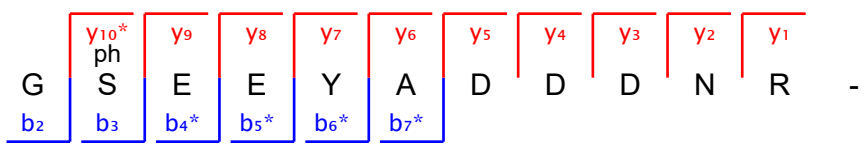
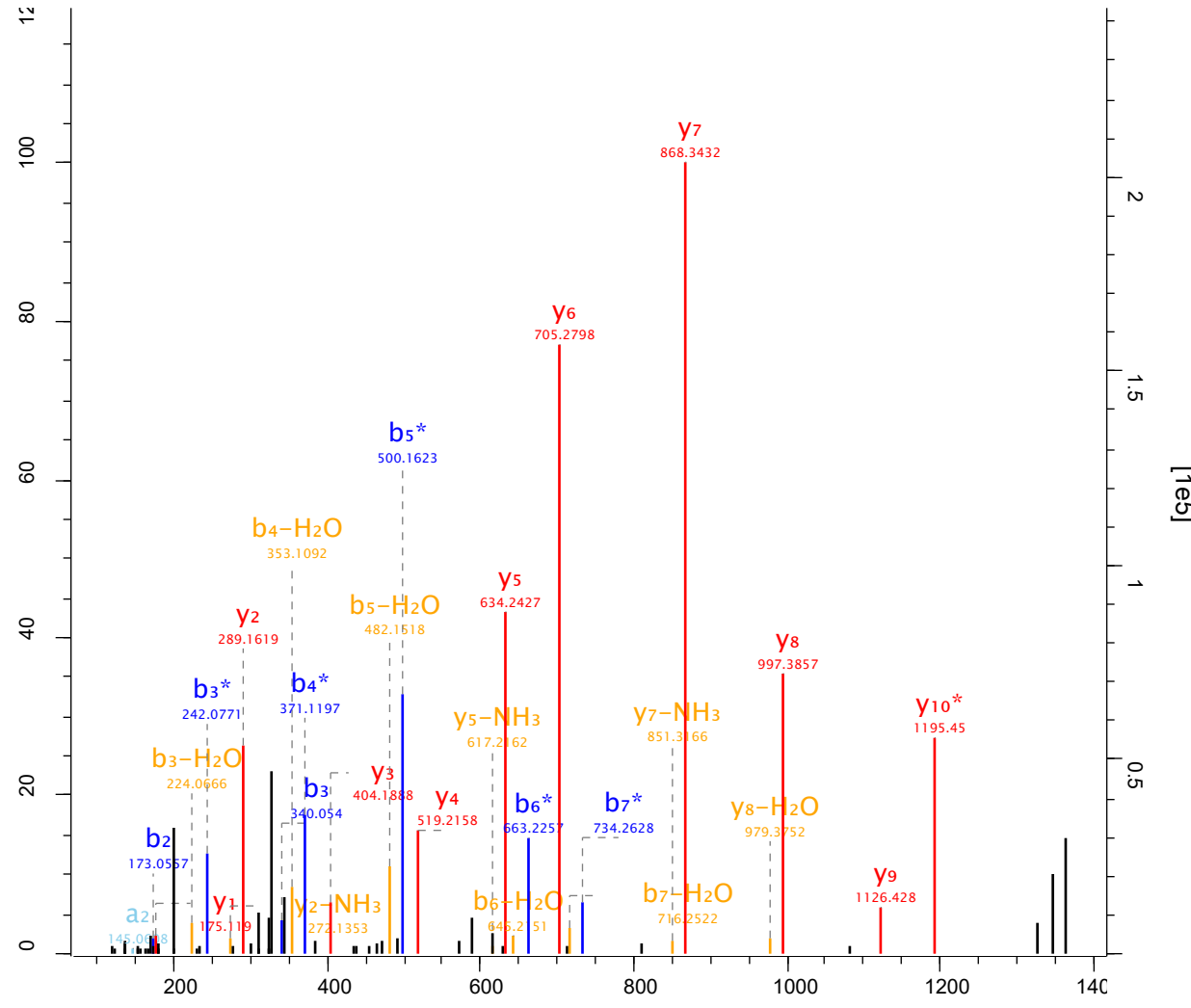
Raw file Scan Method Score m/z
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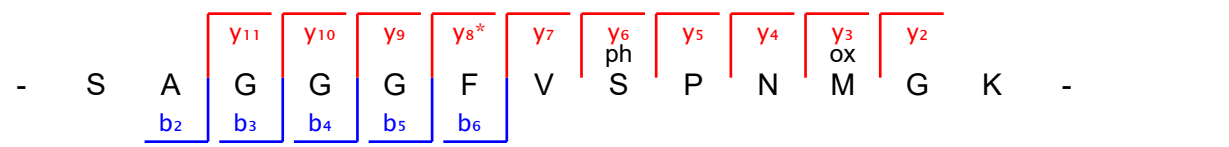
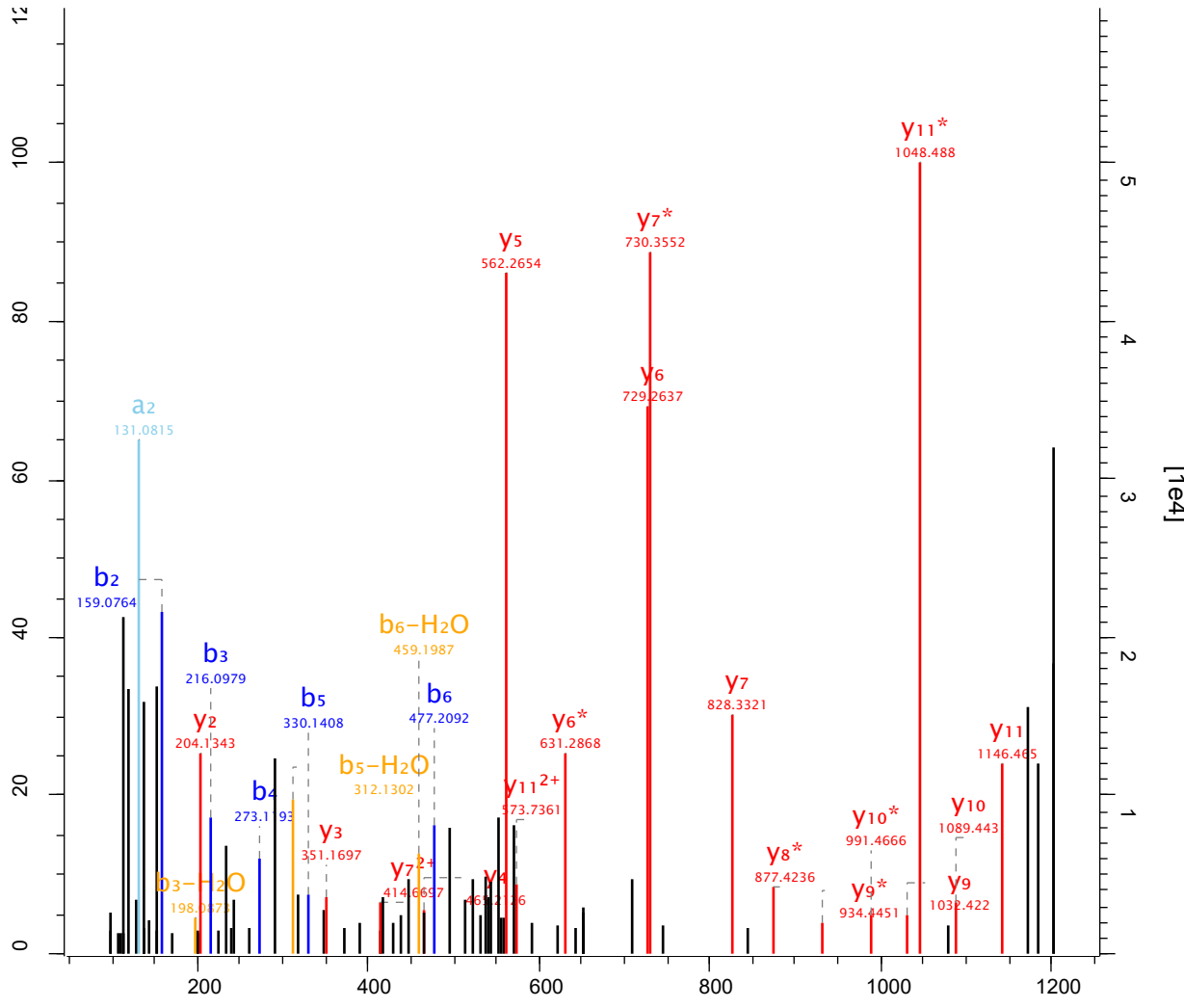
ph S Y₁₀ Y₉ Y₈ Y₇ Y₆ Y₅ Y₄ Y₃ Y₂ Y₁ -

- b₂ b₃ b₄ b₅ b₆* b₇* N A S R -

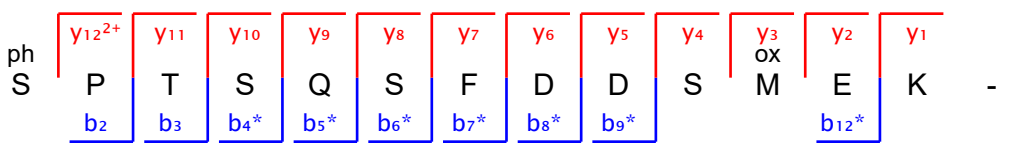
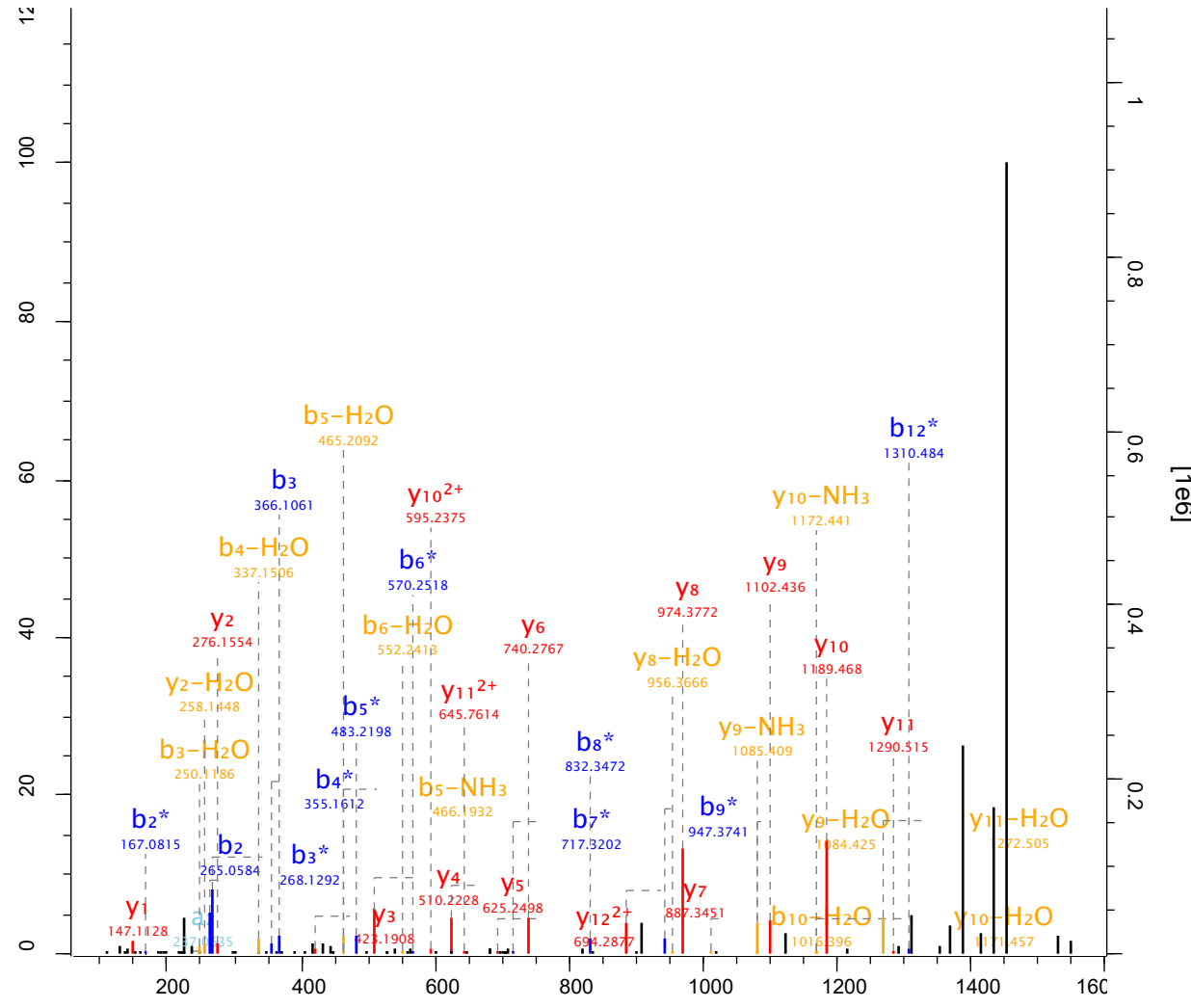
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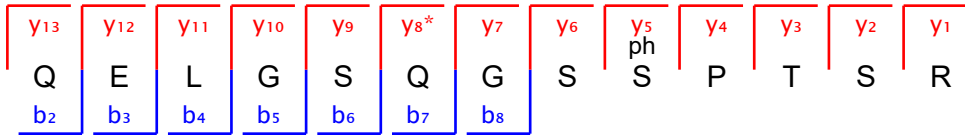
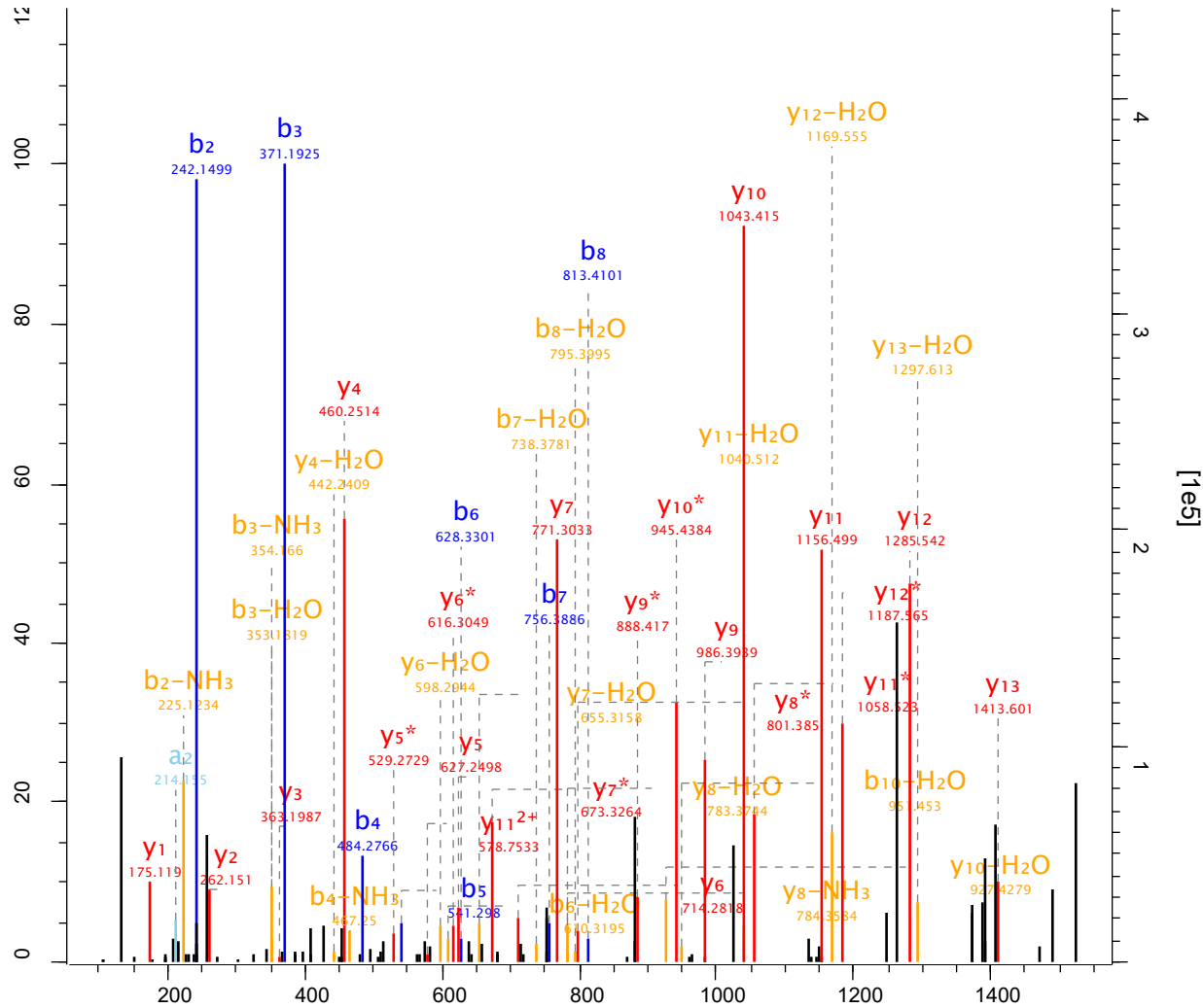
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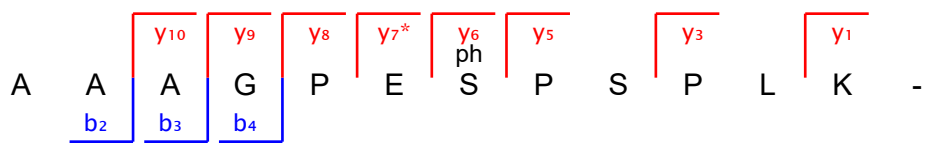
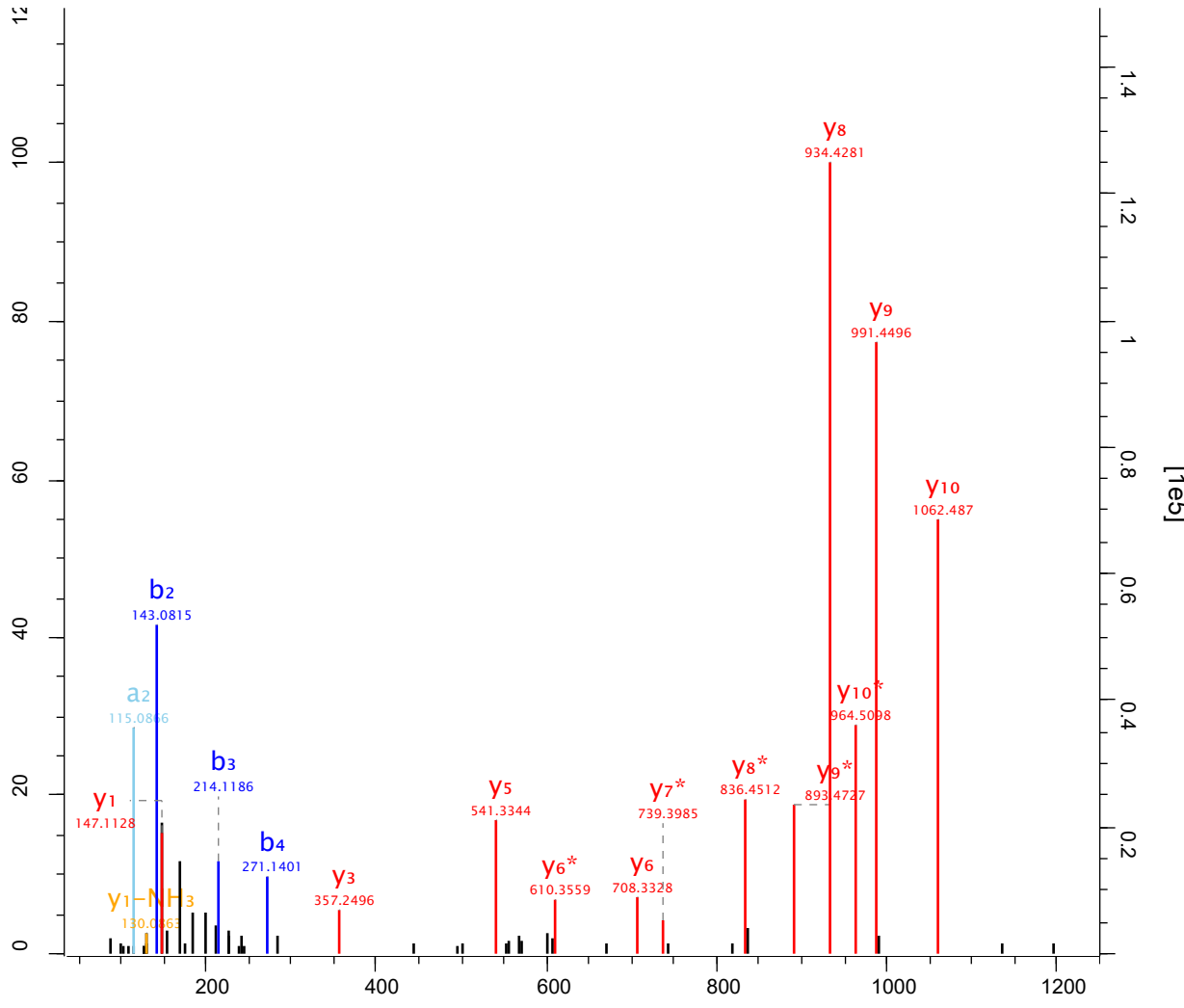
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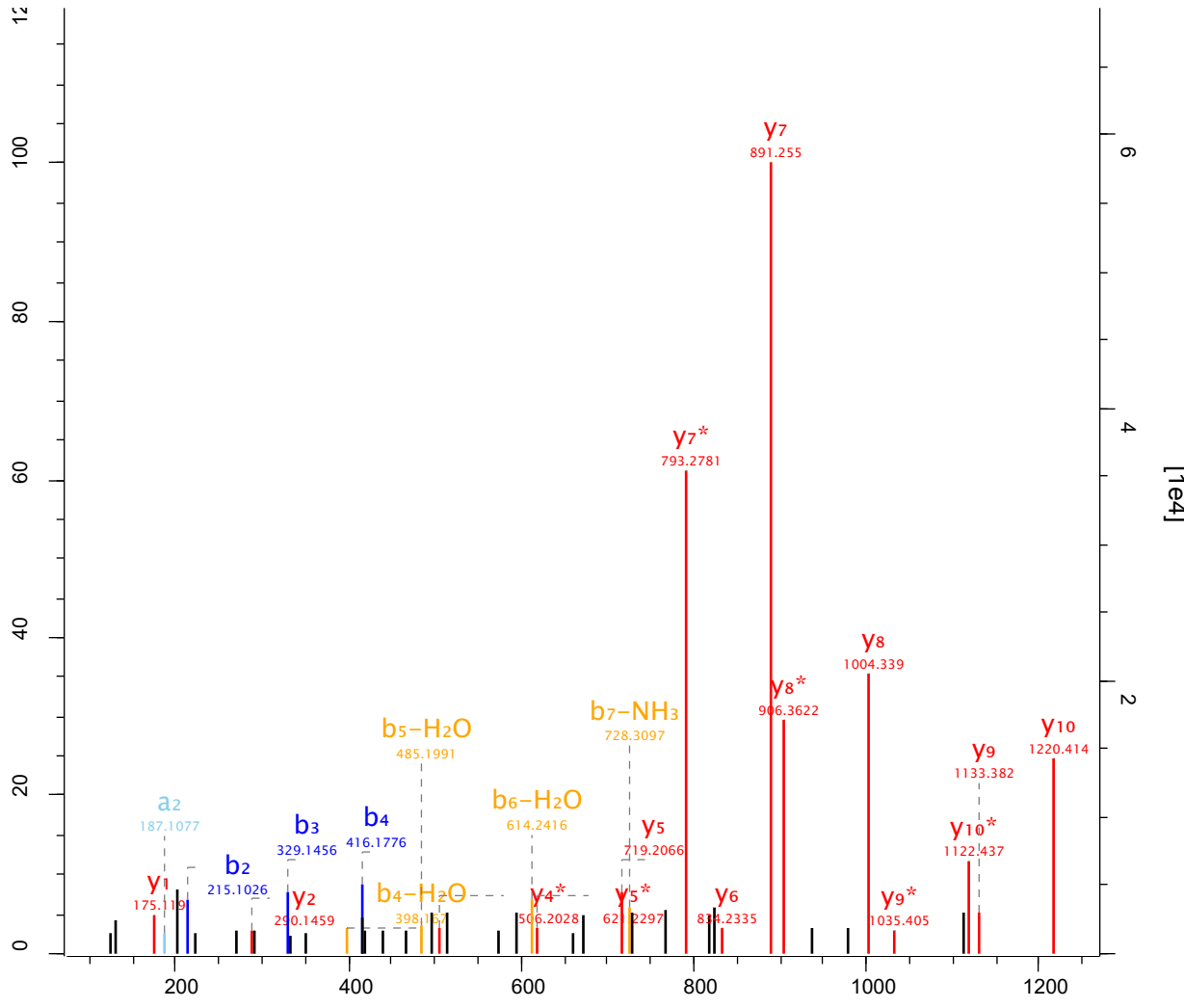
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Raw file Scan Method Score m/z
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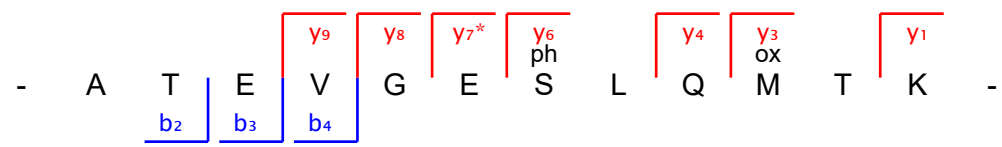
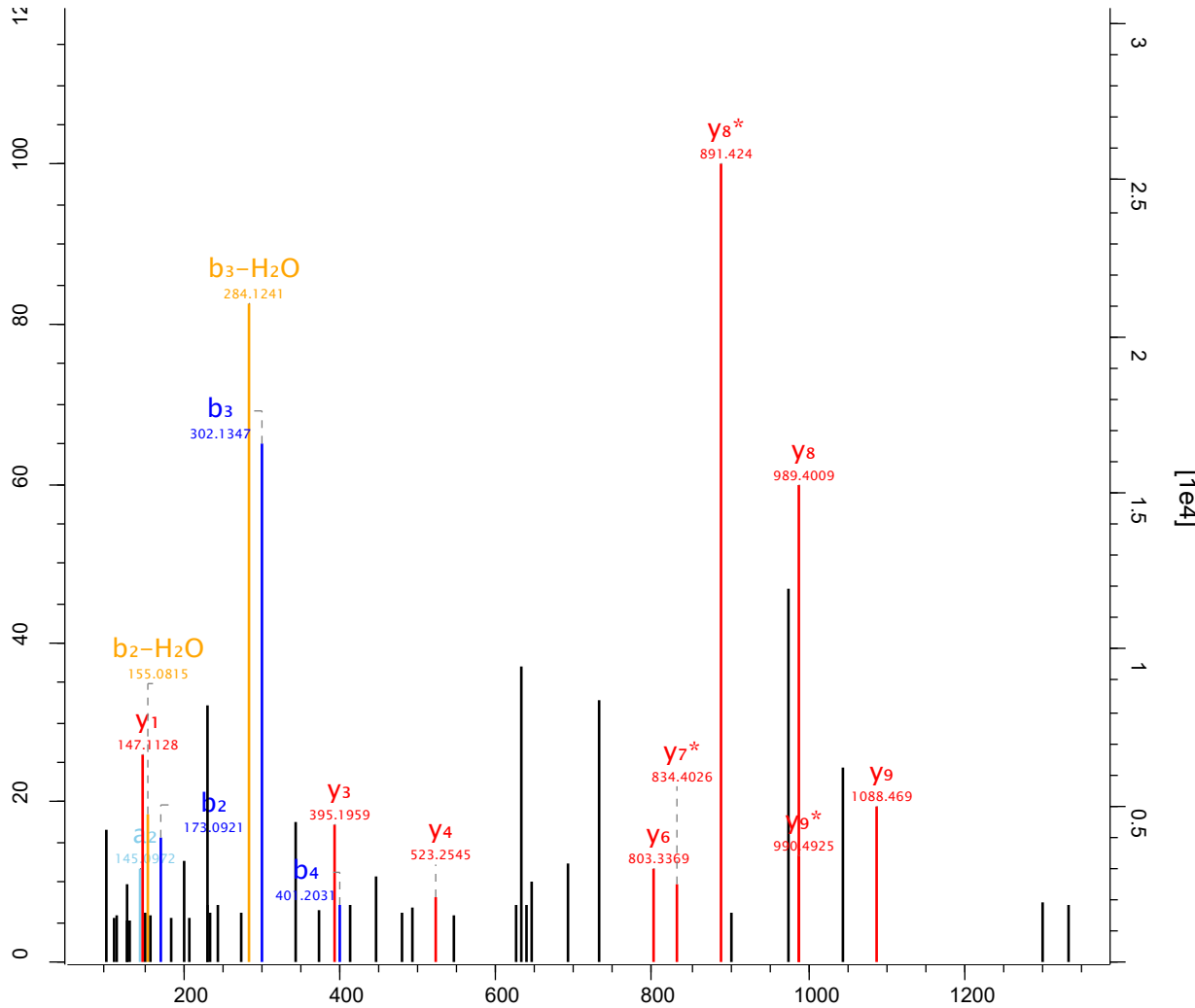


Raw file Scan Method Score m/z
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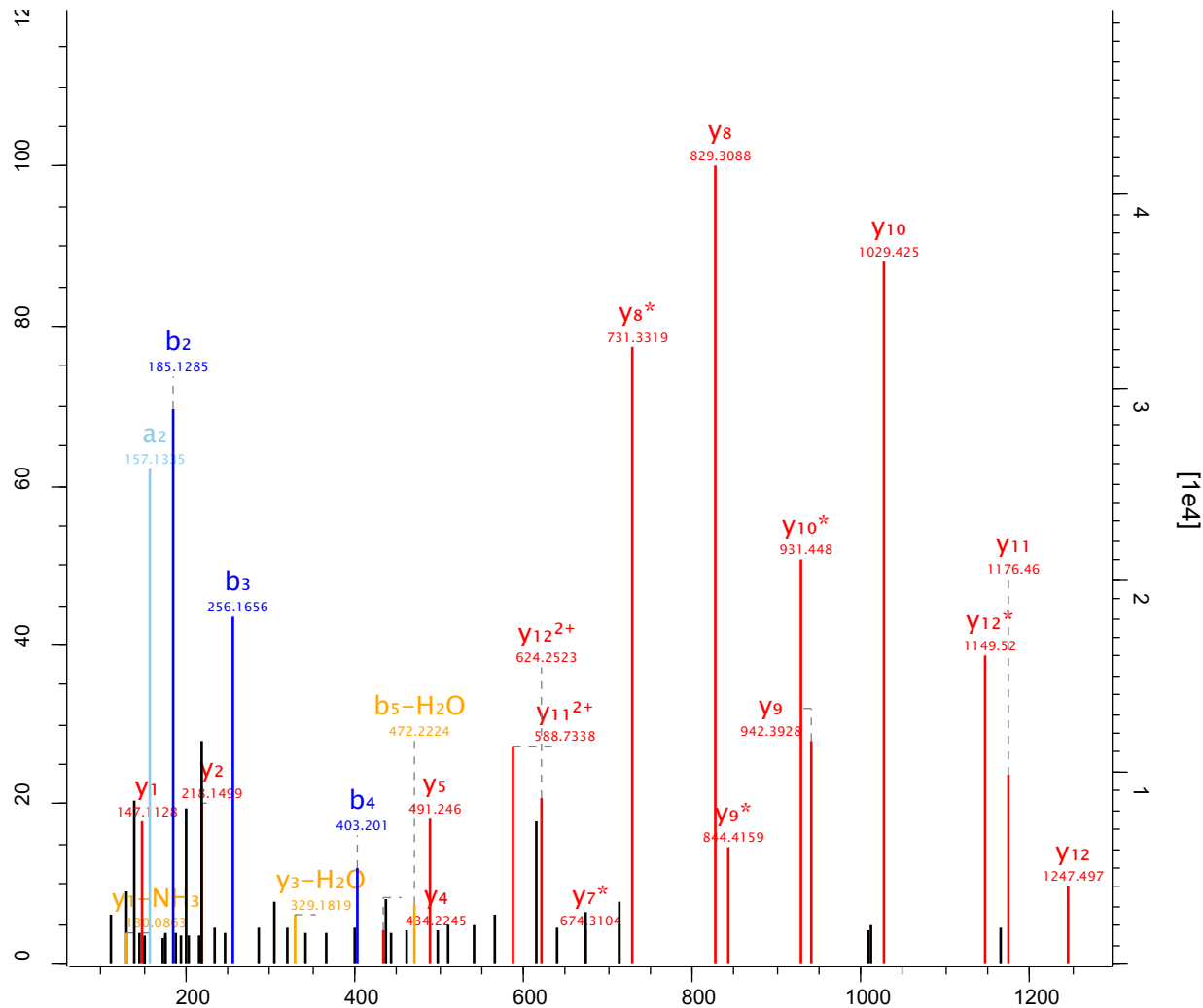


- V D N S S E I G D D M ph S D R -
 b2 b3 b4 y10 y9 y8 y7 y6 y5 y4* ox y2 y1

Raw file Scan Method Score m/z
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Raw file Scan Method Score m/z
 sys_15_1 9560 FTMS; HCD 94.2 716.31

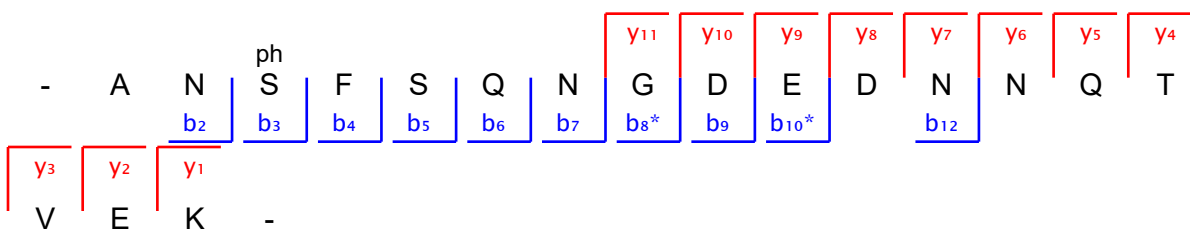
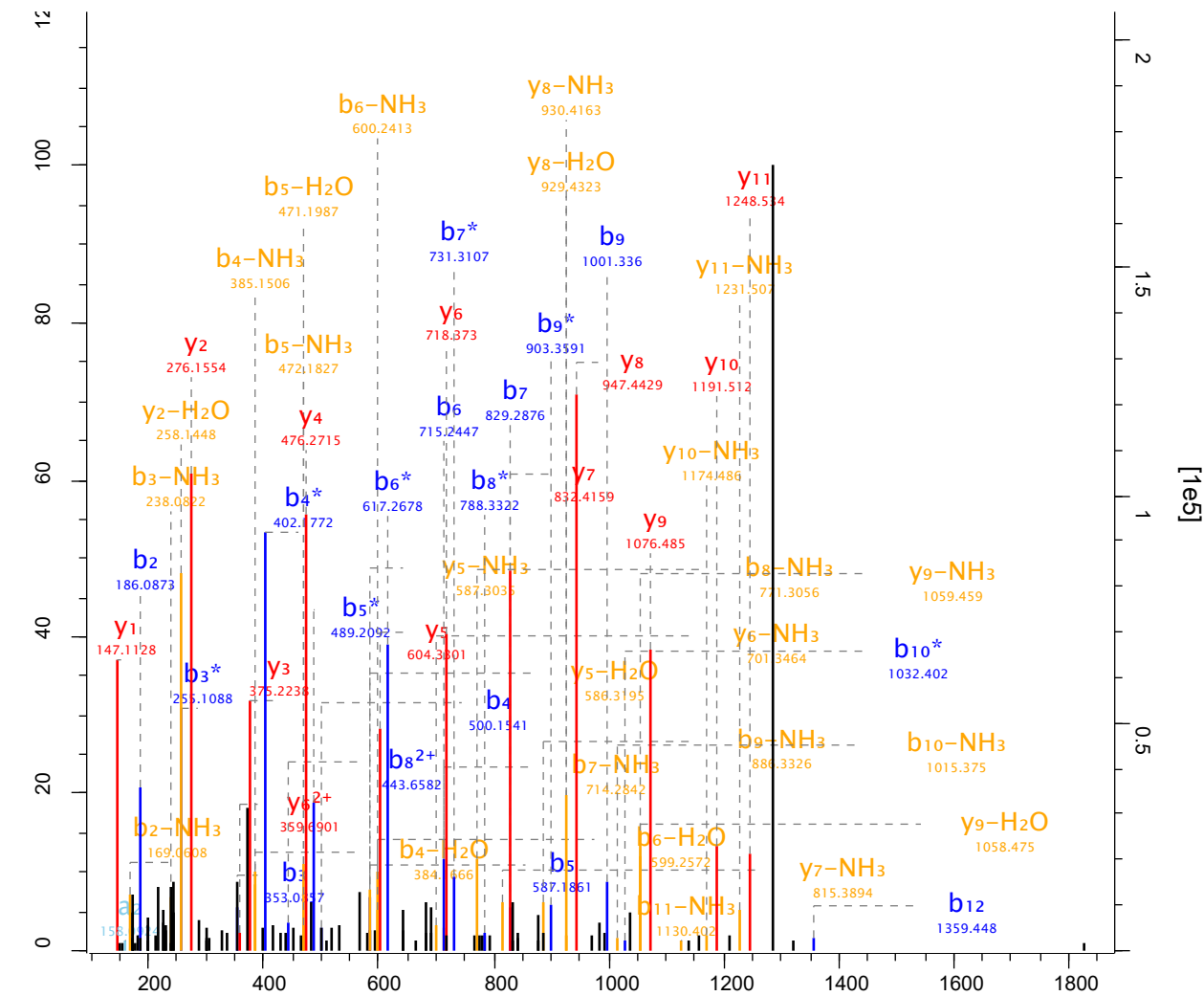


- A L A M S L G N ph S G S E A K -

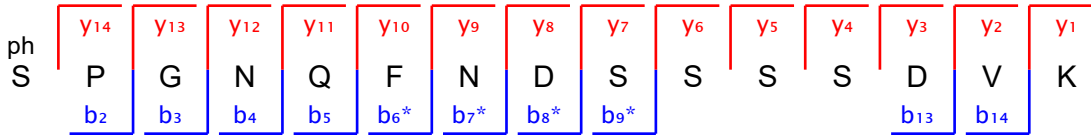
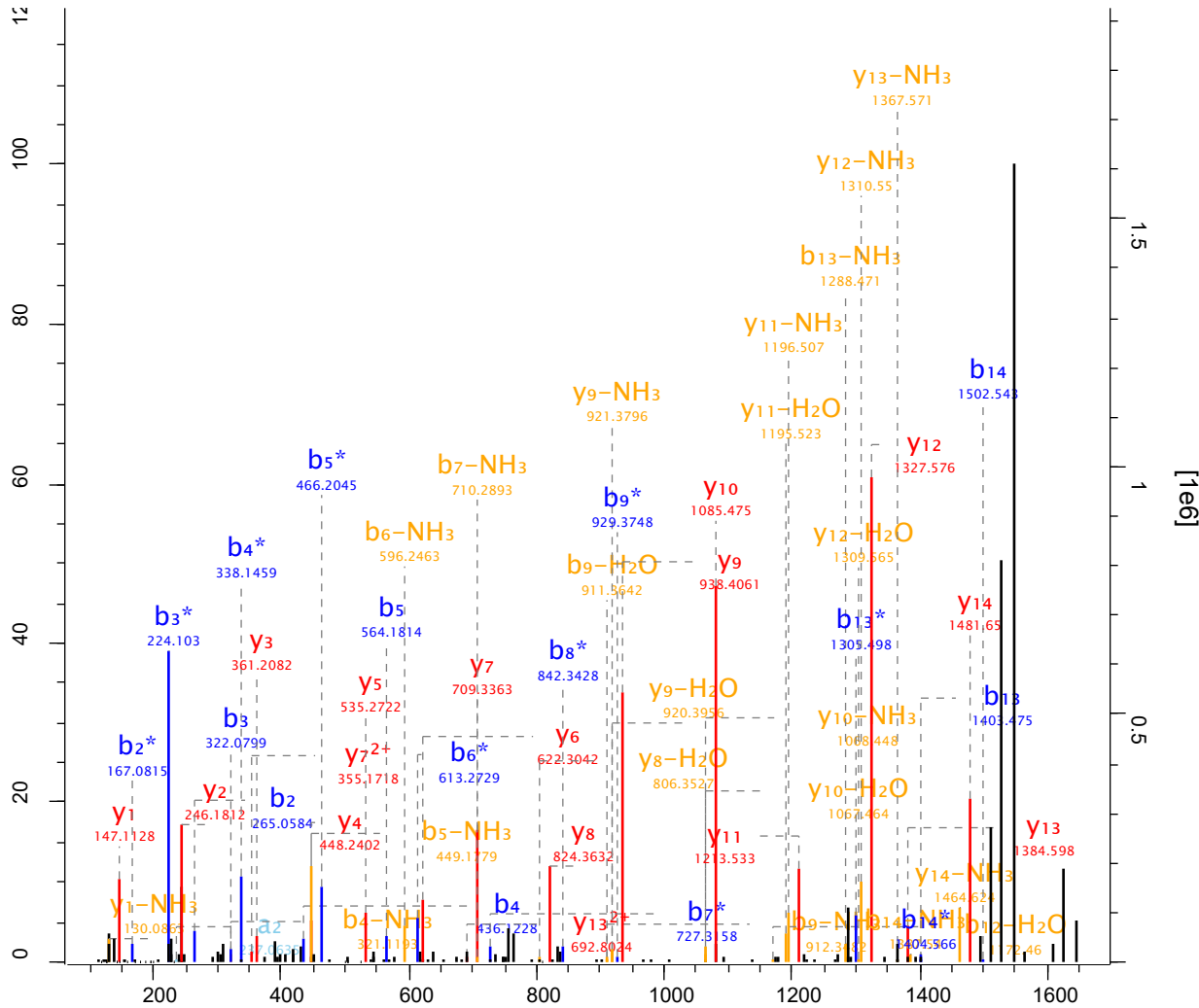
Fragmentation mapping (b and y ions):

- b₂ (L)
- b₃ (LA)
- b₄ (LAM)
- y₁₂ (AK)
- y₁₁ (M)
- y₁₀ (S)
- y₉ (L)
- y₈ (G)
- y₇* (N)
- y₅ (SG)
- y₄ (GS)
- y₂ (EA)
- y₁ (AK)

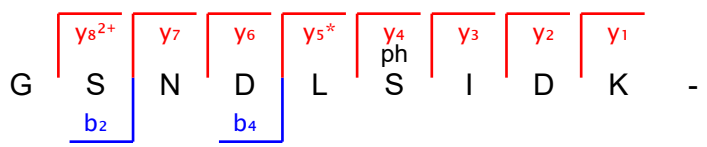
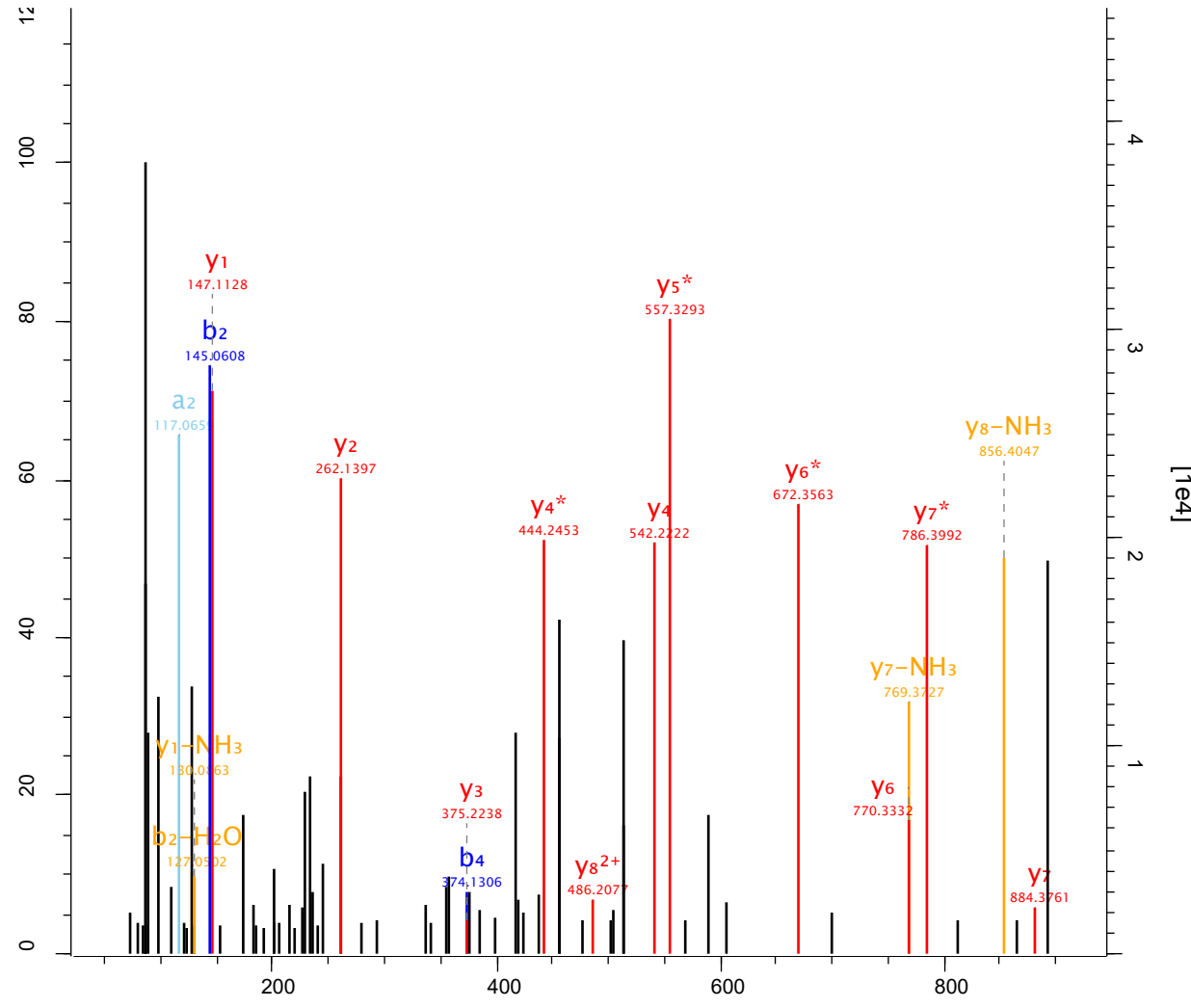
Raw file Scan Method Score m/z
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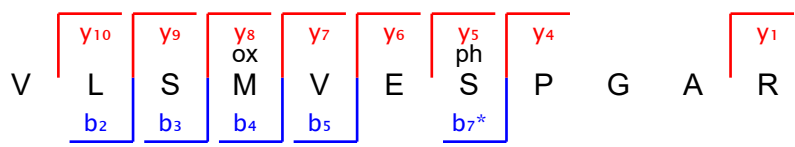
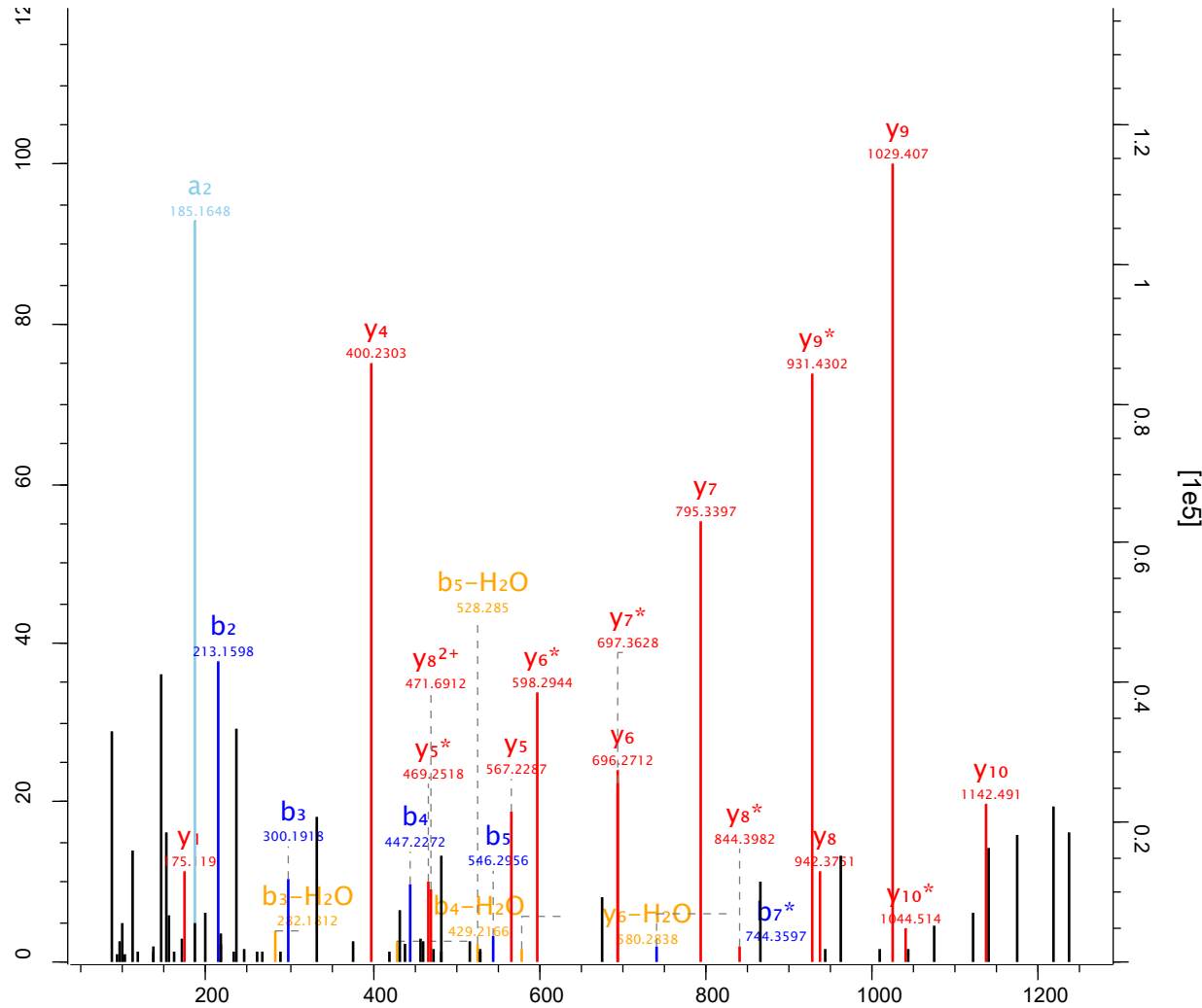
Raw file Scan Method Score m/z
 sys_15_1 9626 FTMS; HCD 248.23 824.83



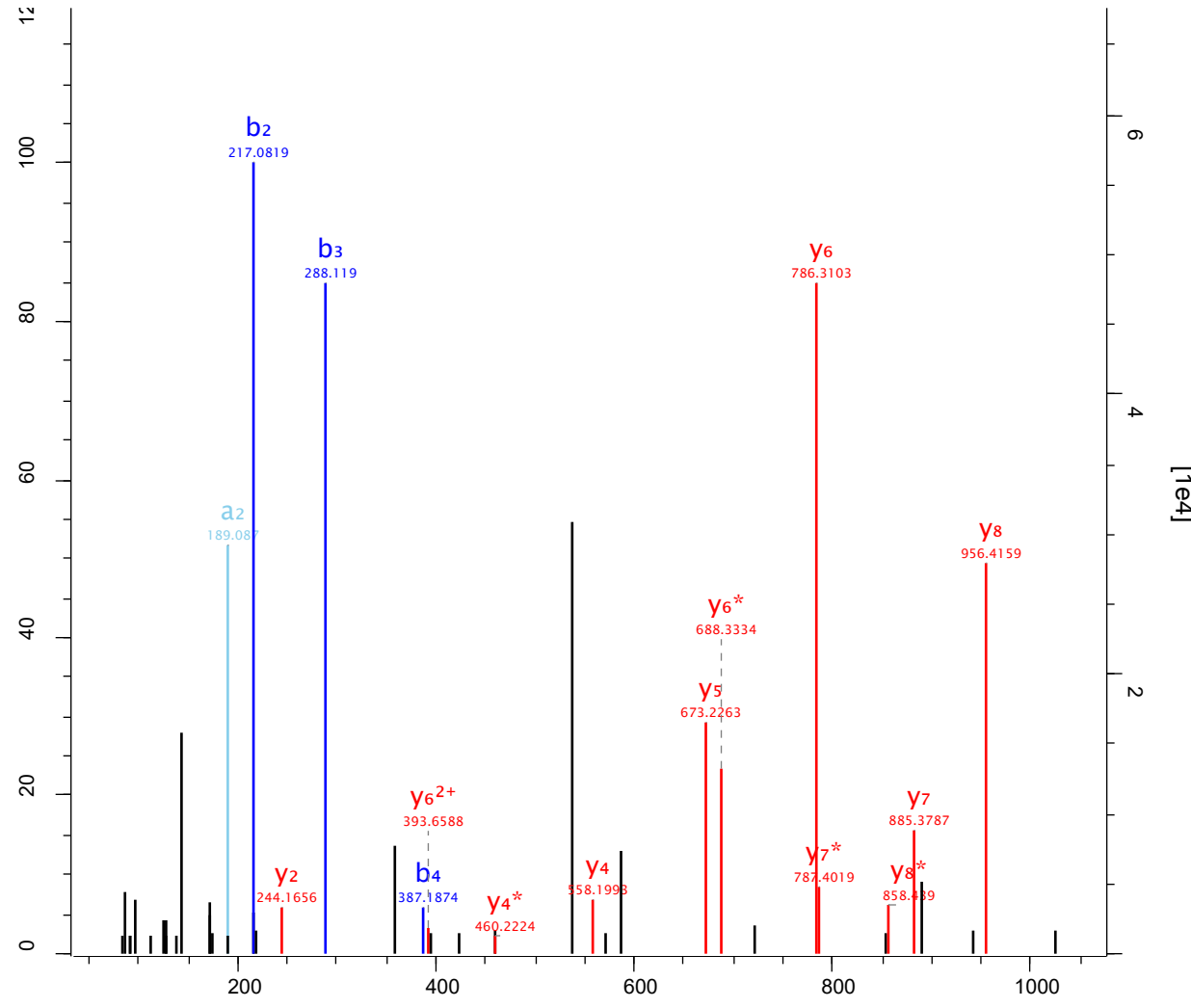
Raw file Scan Method Score m/z
 sys_15_1 9633 FTMS; HCD 70.09 514.72



Raw file Scan Method Score m/z
 sys_15_1 9646 FTMS; HCD 138.55 621.28



Raw file	Scan	Method	Score	m/z
sys_15_1	9647	FTMS; HCD	73.93	586.75

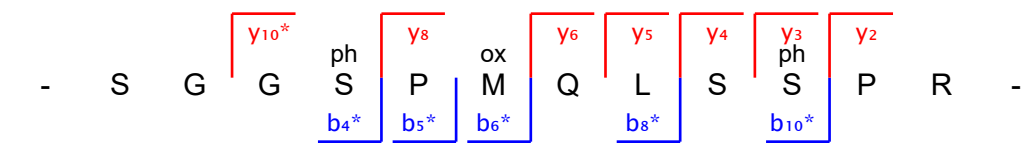
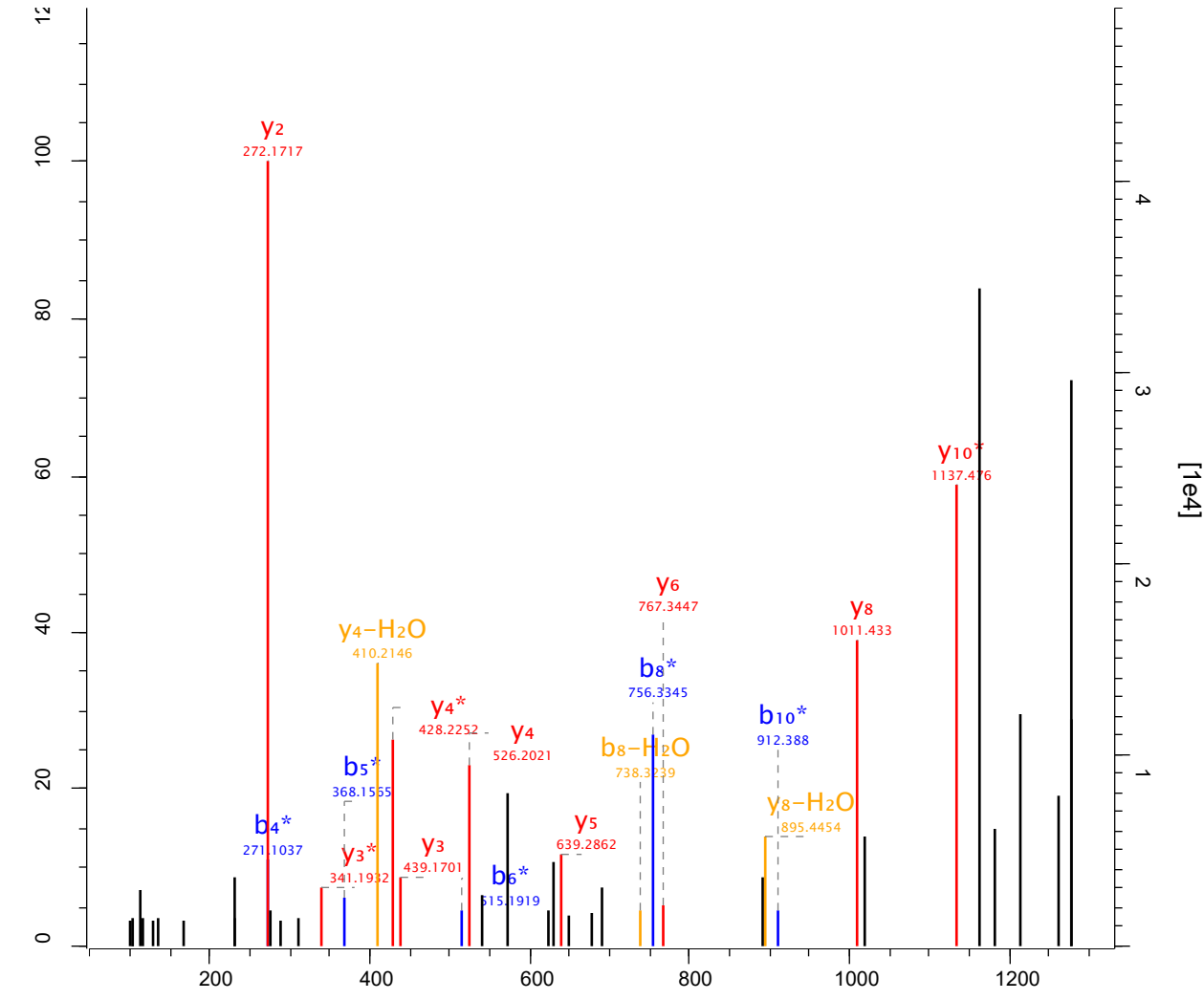


- S E A V L D M ph S P K -

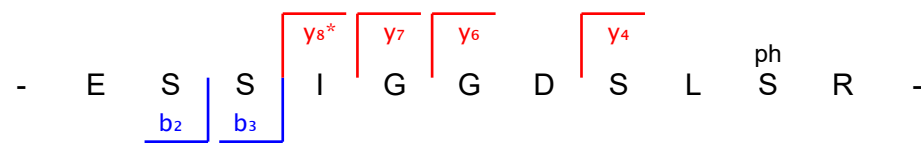
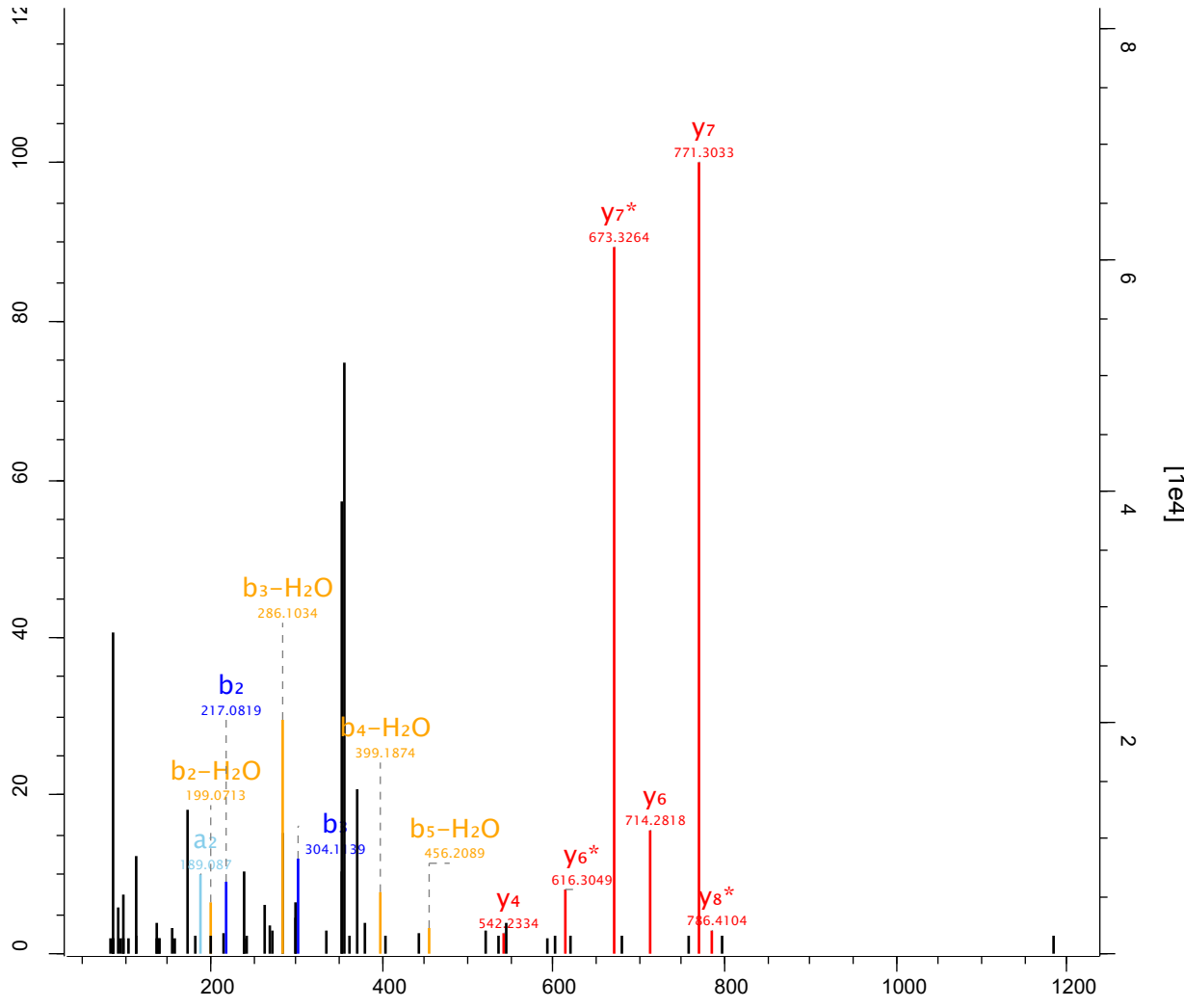
Fragmentation sites are indicated by brackets below the sequence:

- Blue brackets: b₂ (under E), b₃ (under A), b₄ (under V)
- Red brackets: y₂ (under P), y₄ (under M), y₅ (under D), y₆ (under L), y₇ (under V), y₈ (under A)

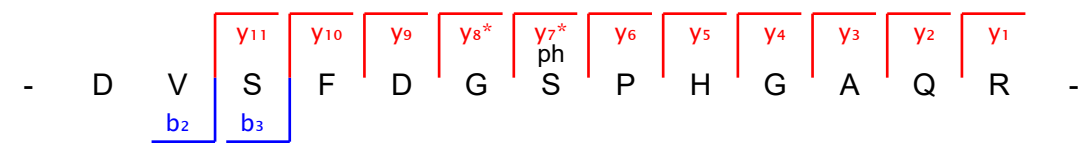
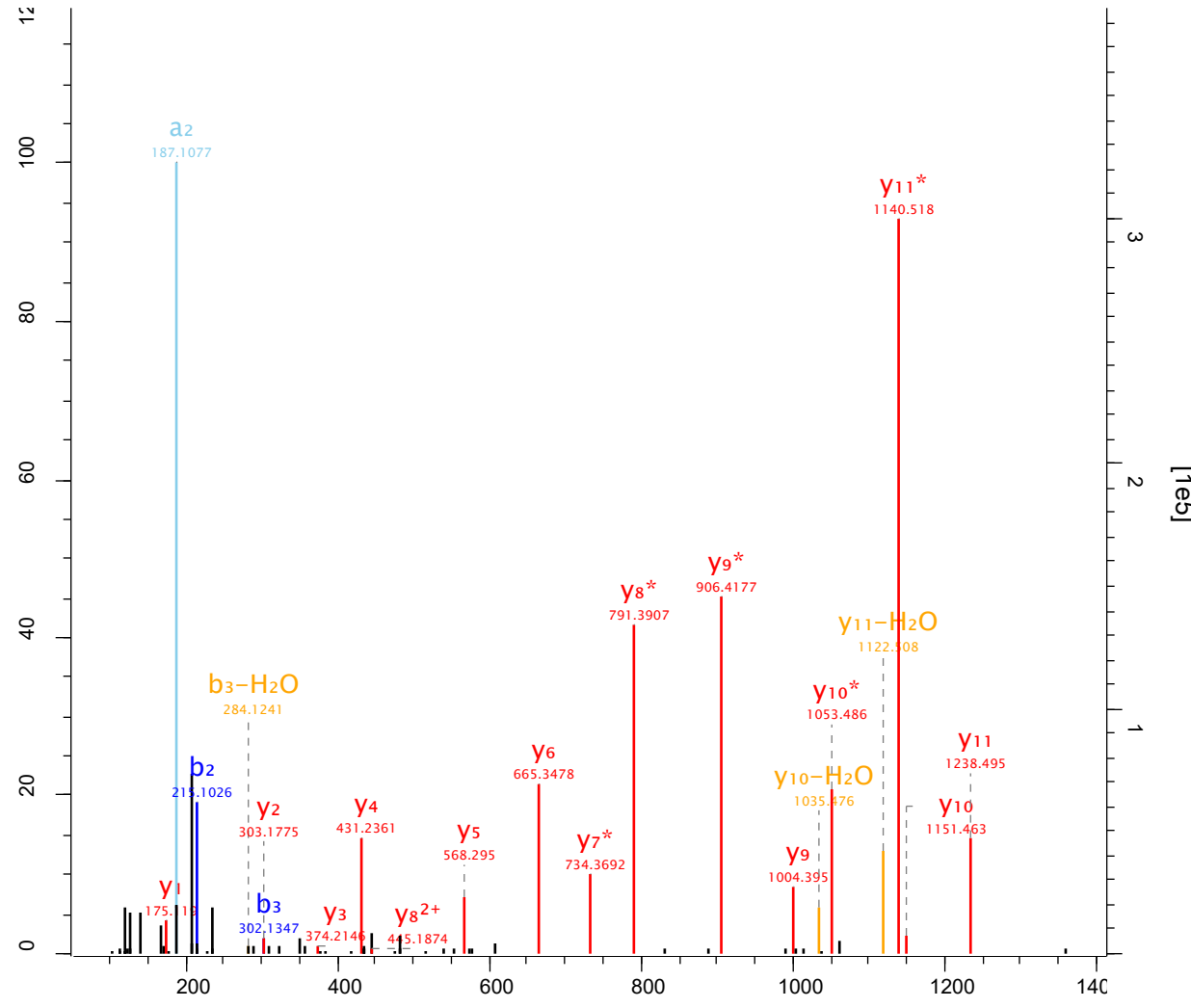
Raw file Scan Method Score m/z
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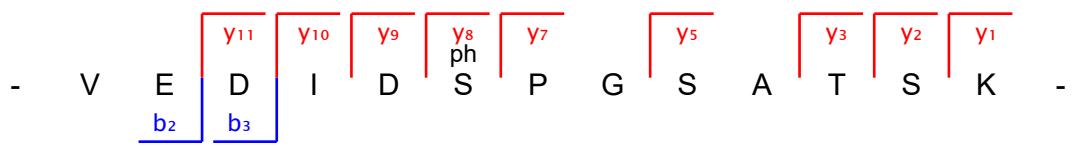
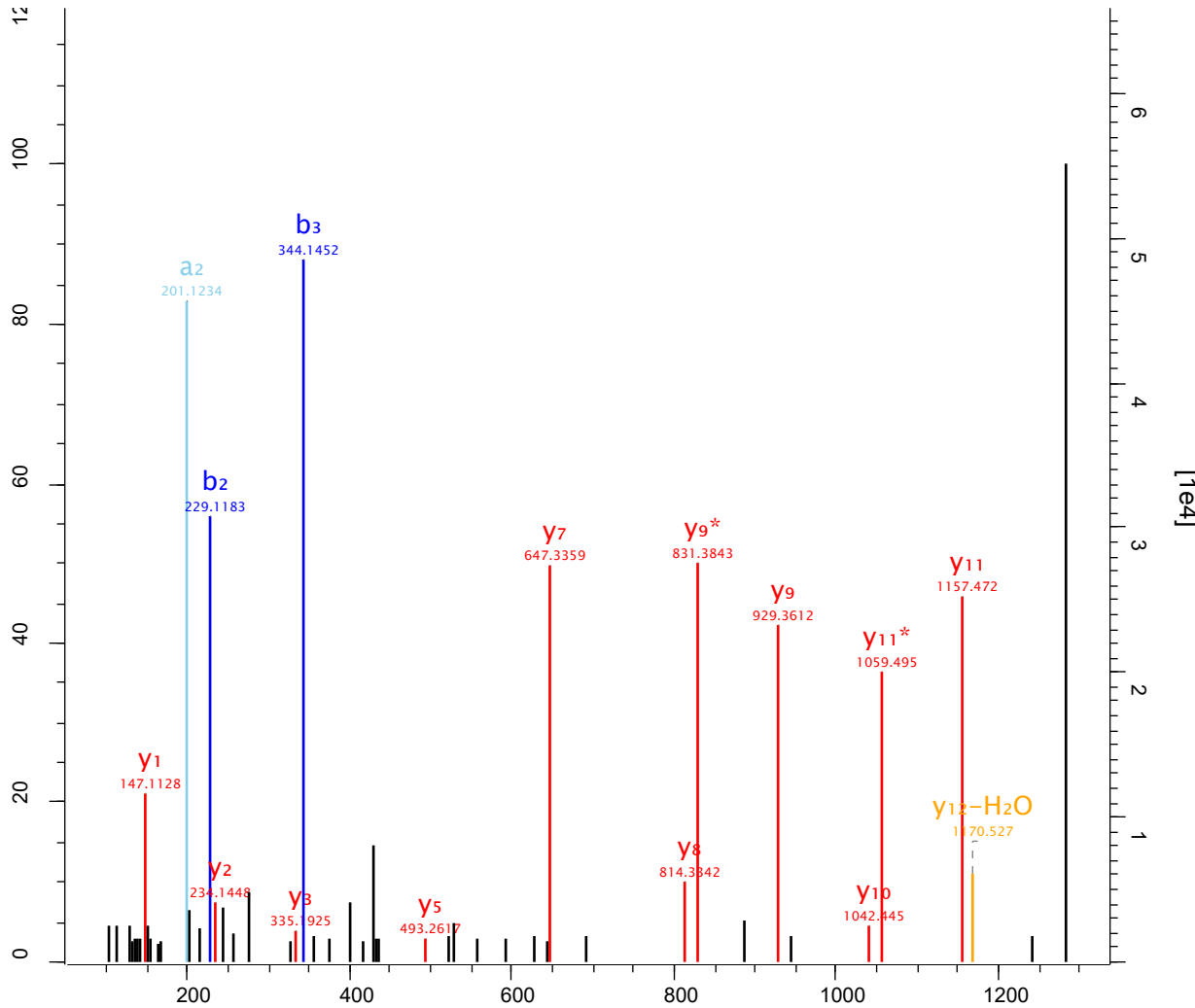
Raw file Scan Method Score m/z
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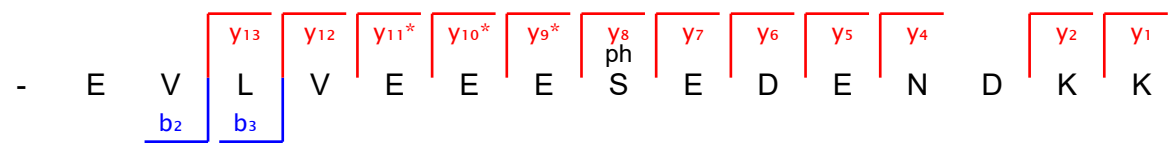
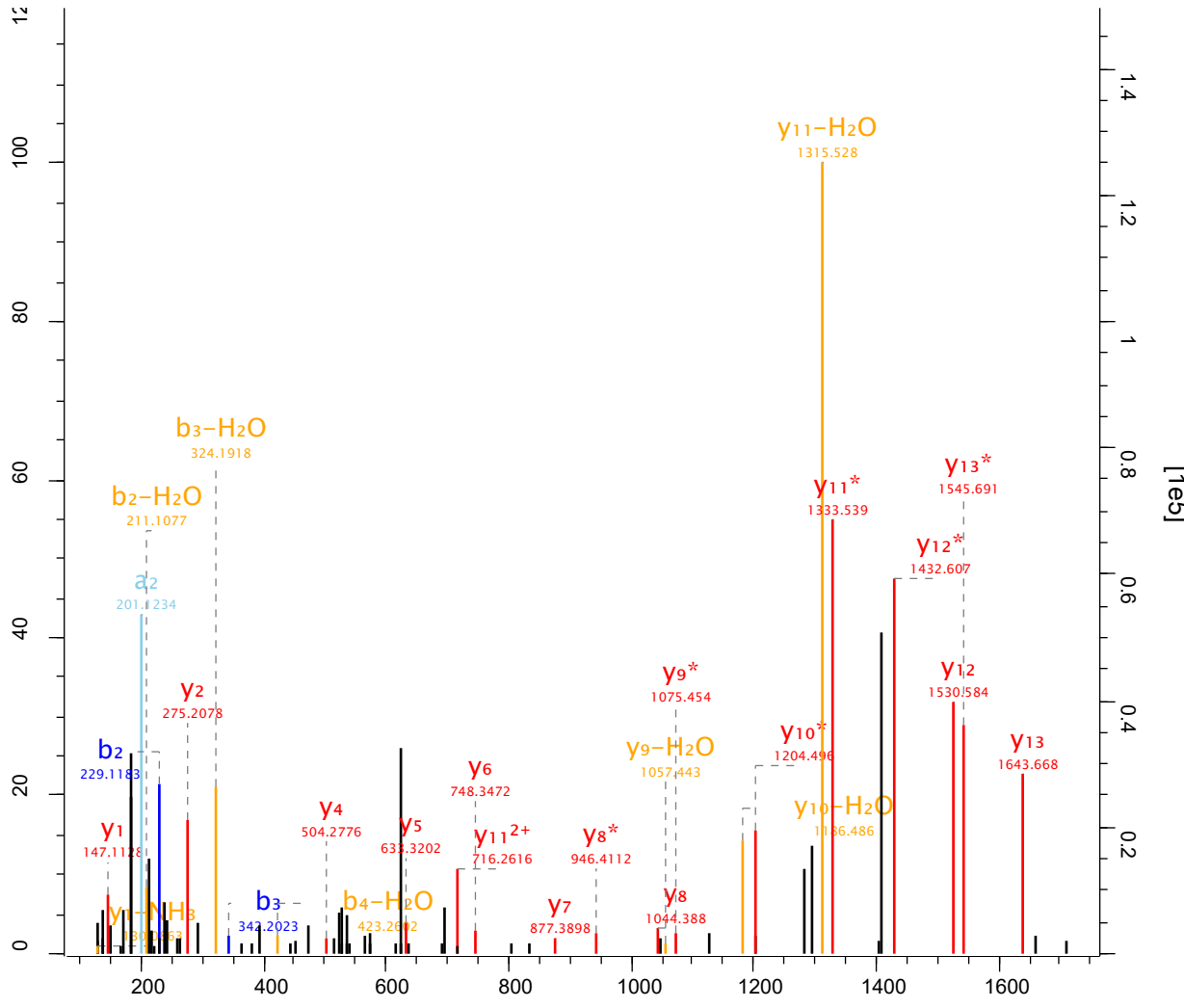
Raw file Scan Method Score m/z
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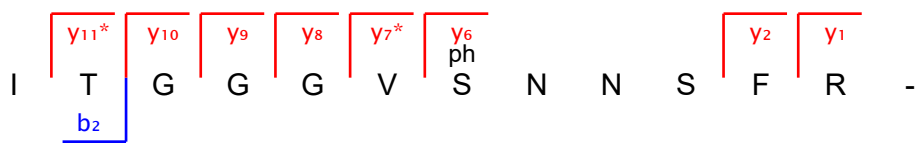
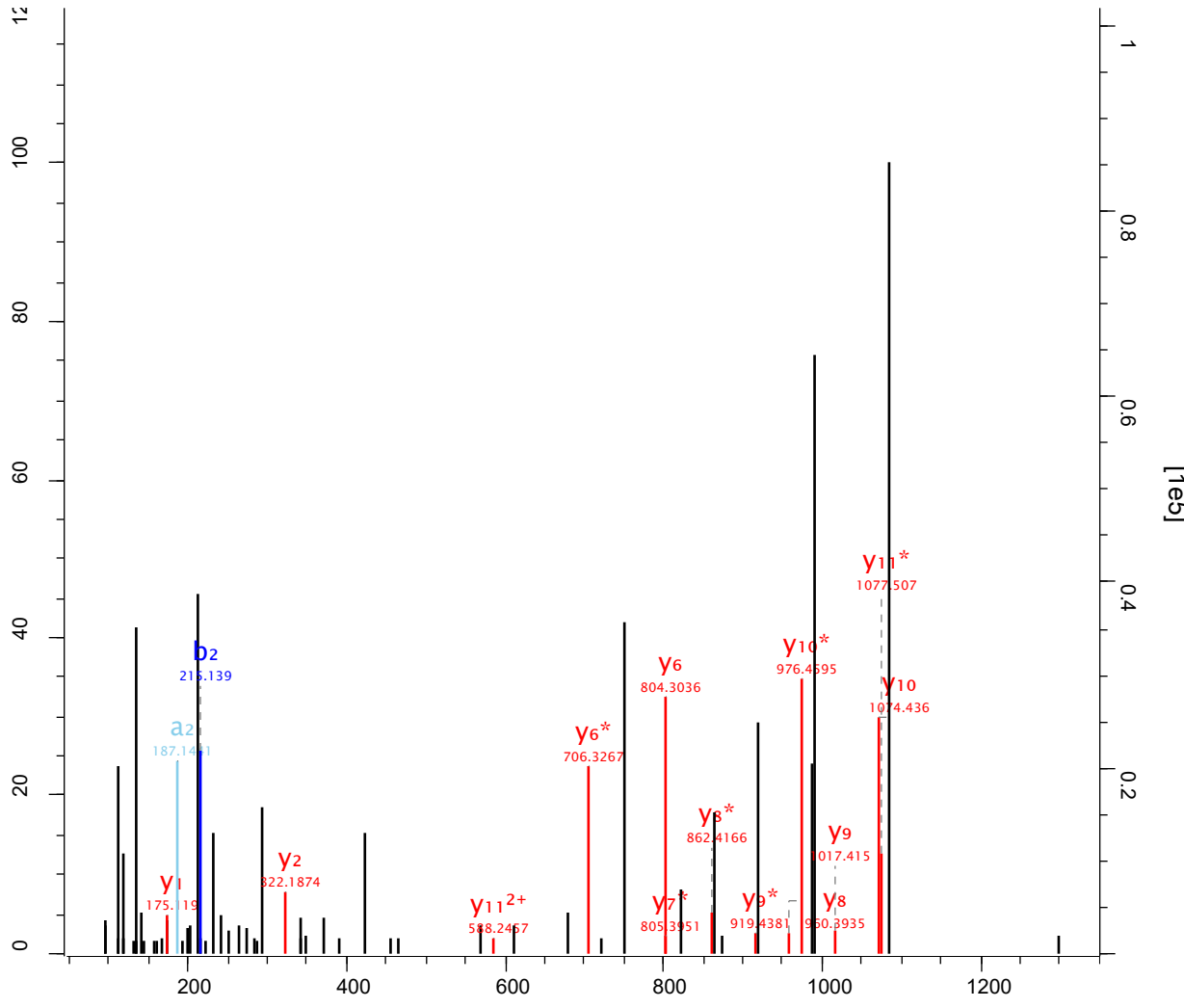
Raw file	Scan	Method	Score	m/z
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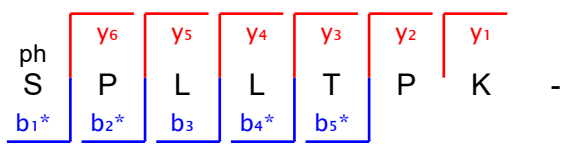
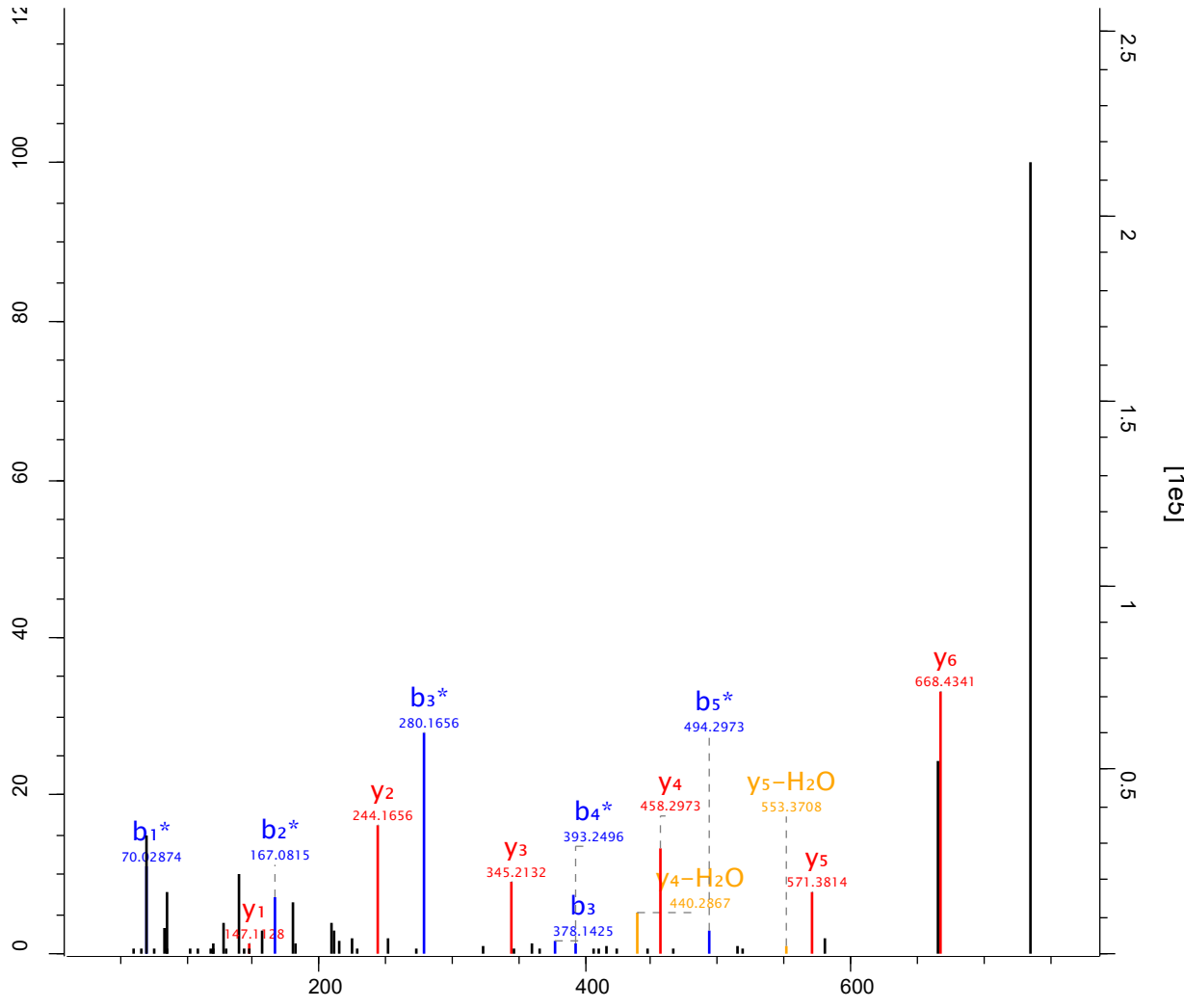
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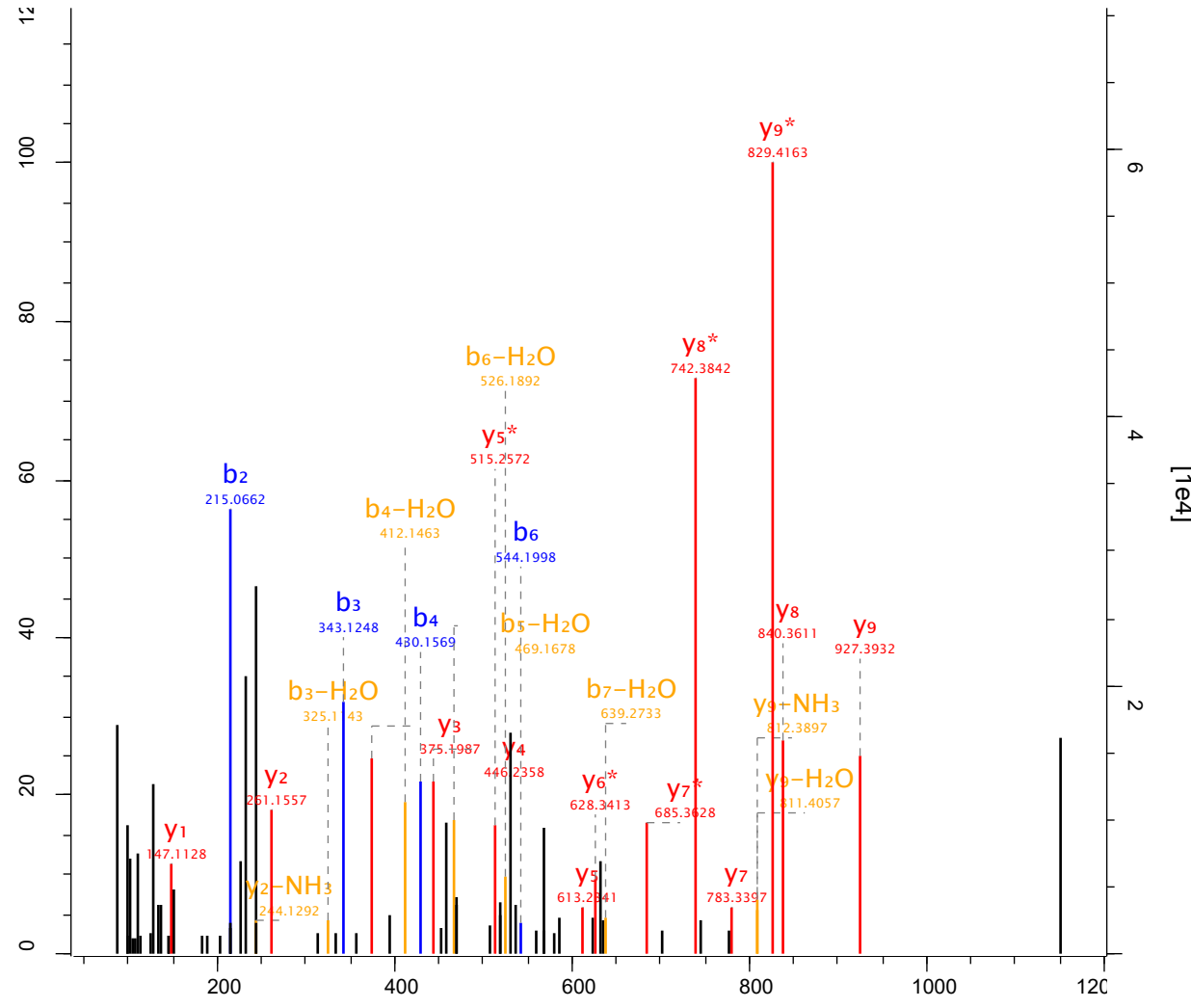
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Raw file Scan Method Score m/z
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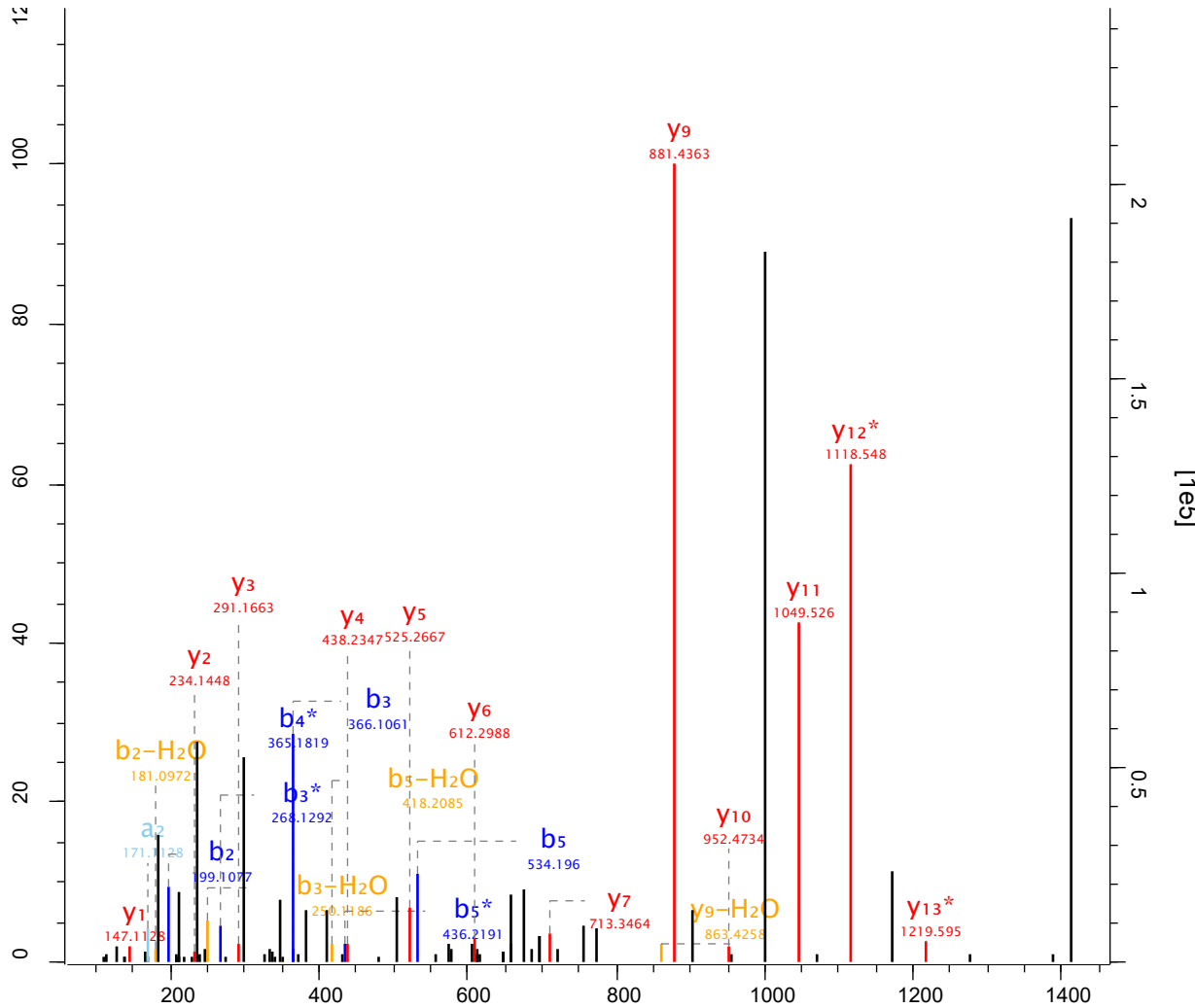


Raw file Scan Method Score m/z
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ac
 - G D Q S G G L S A N N K -
 b2 b3 b4 b6

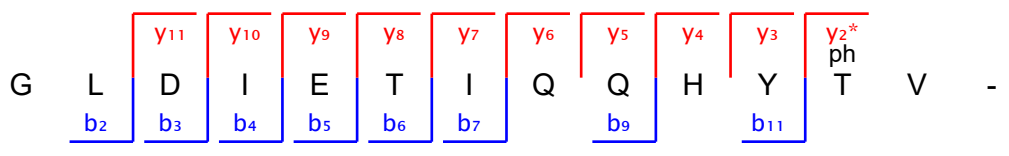
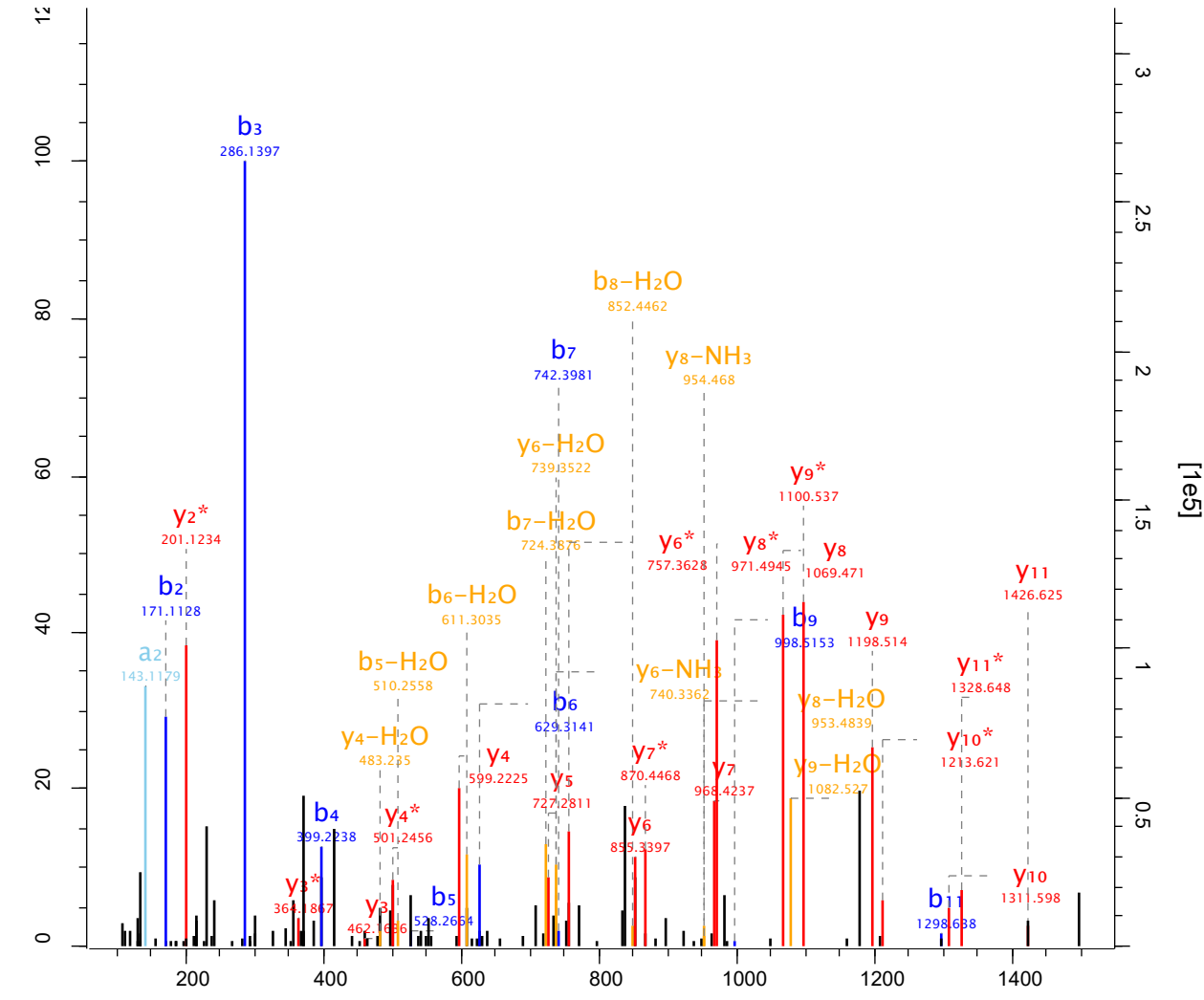
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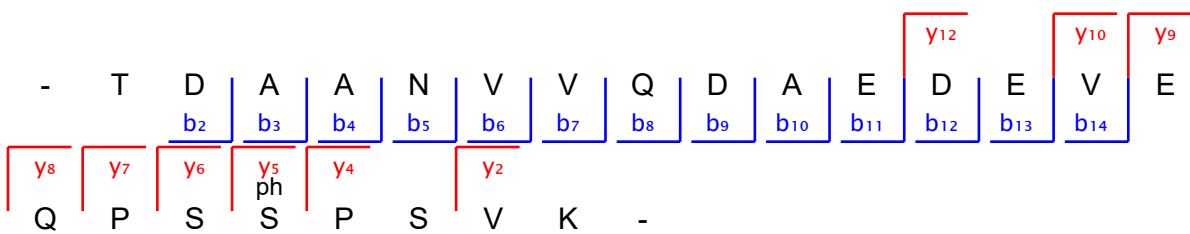
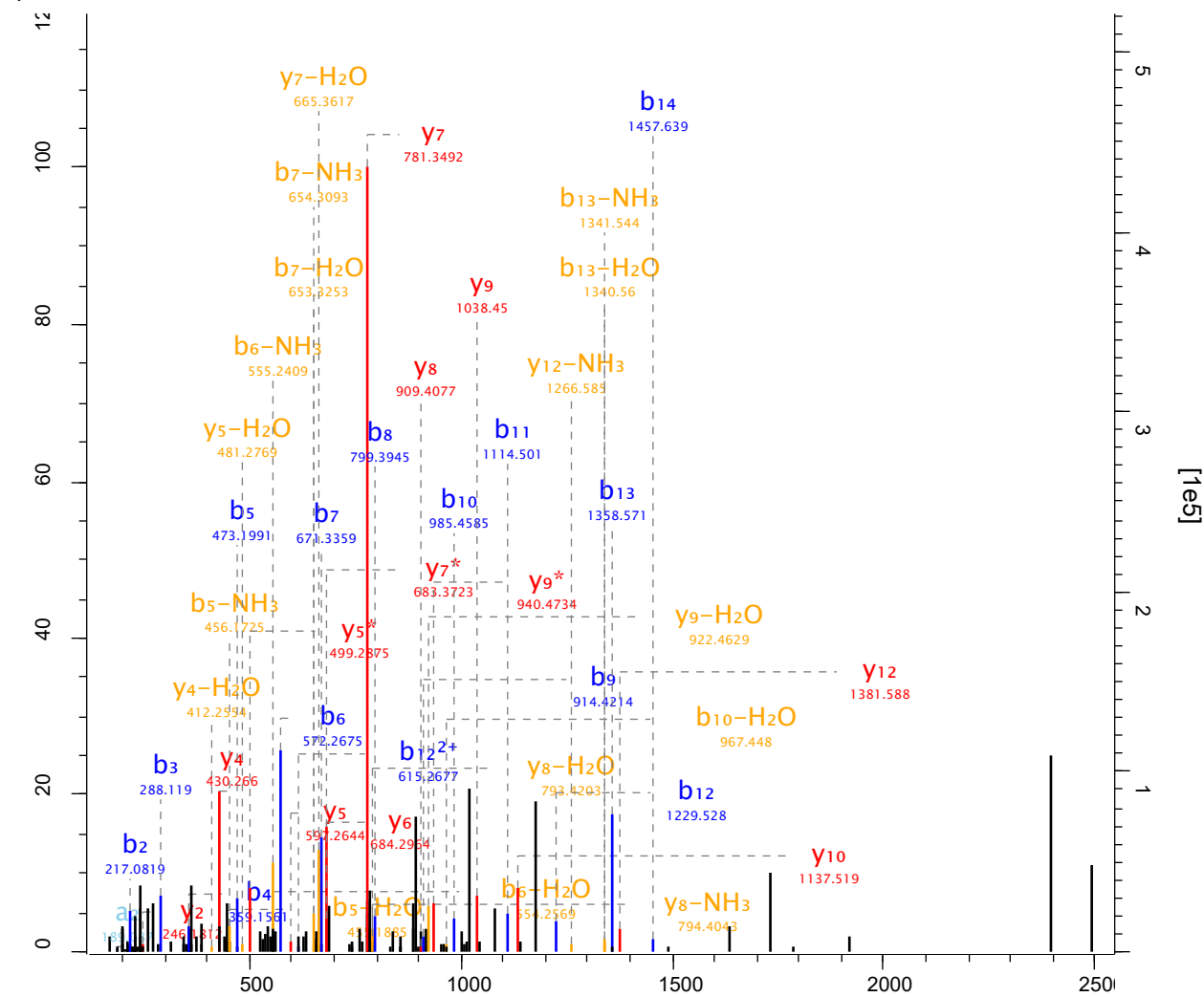
- P T S P A P A T S S F G S K -

b₂
b₃
b₄^{*}
b₅
y₁₃^{*}
y₁₂^{*}ph
y₁₁
y₁₀
y₉
y₇
y₆
y₅
y₄
y₃
y₂
y₁

Raw file Scan Method Score m/z
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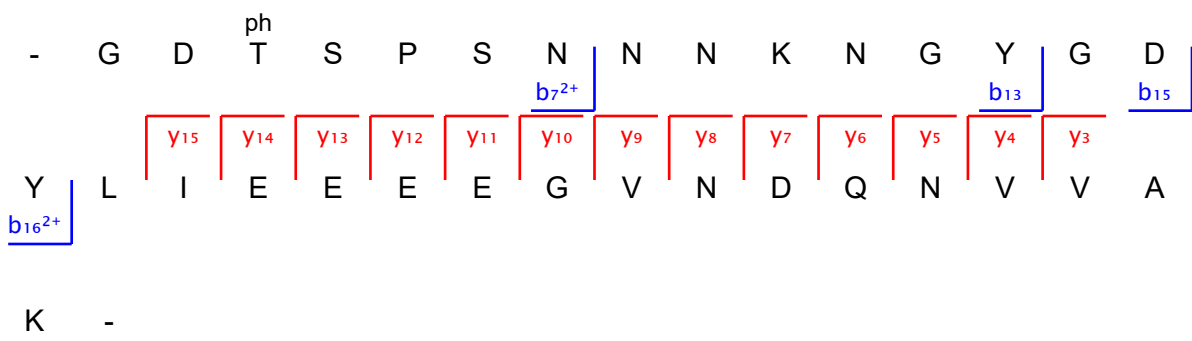
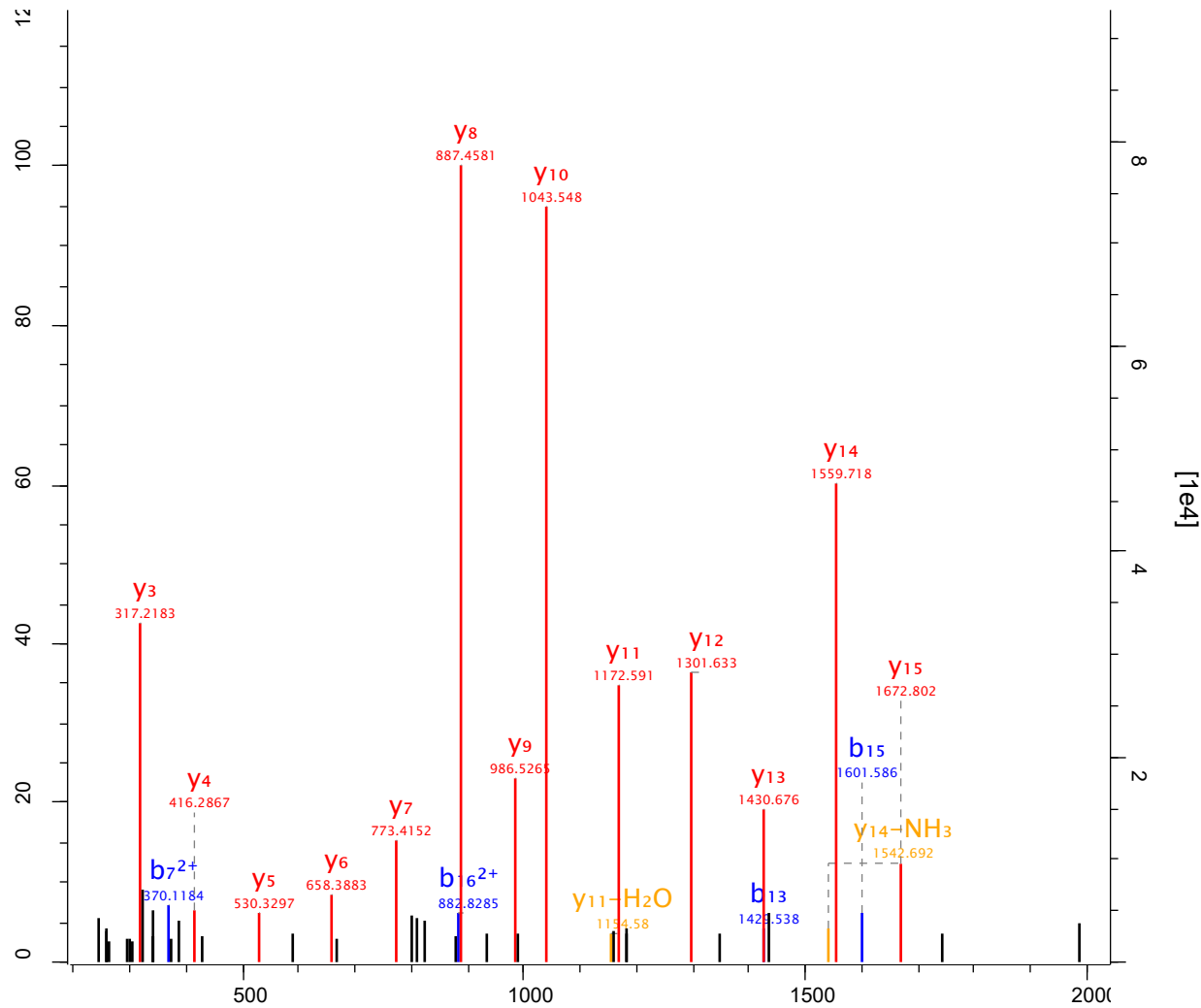


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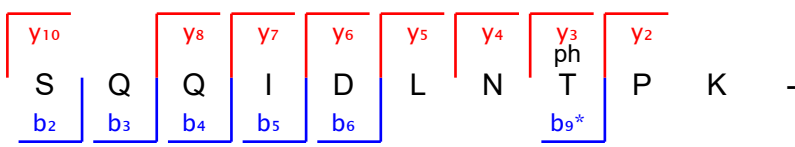
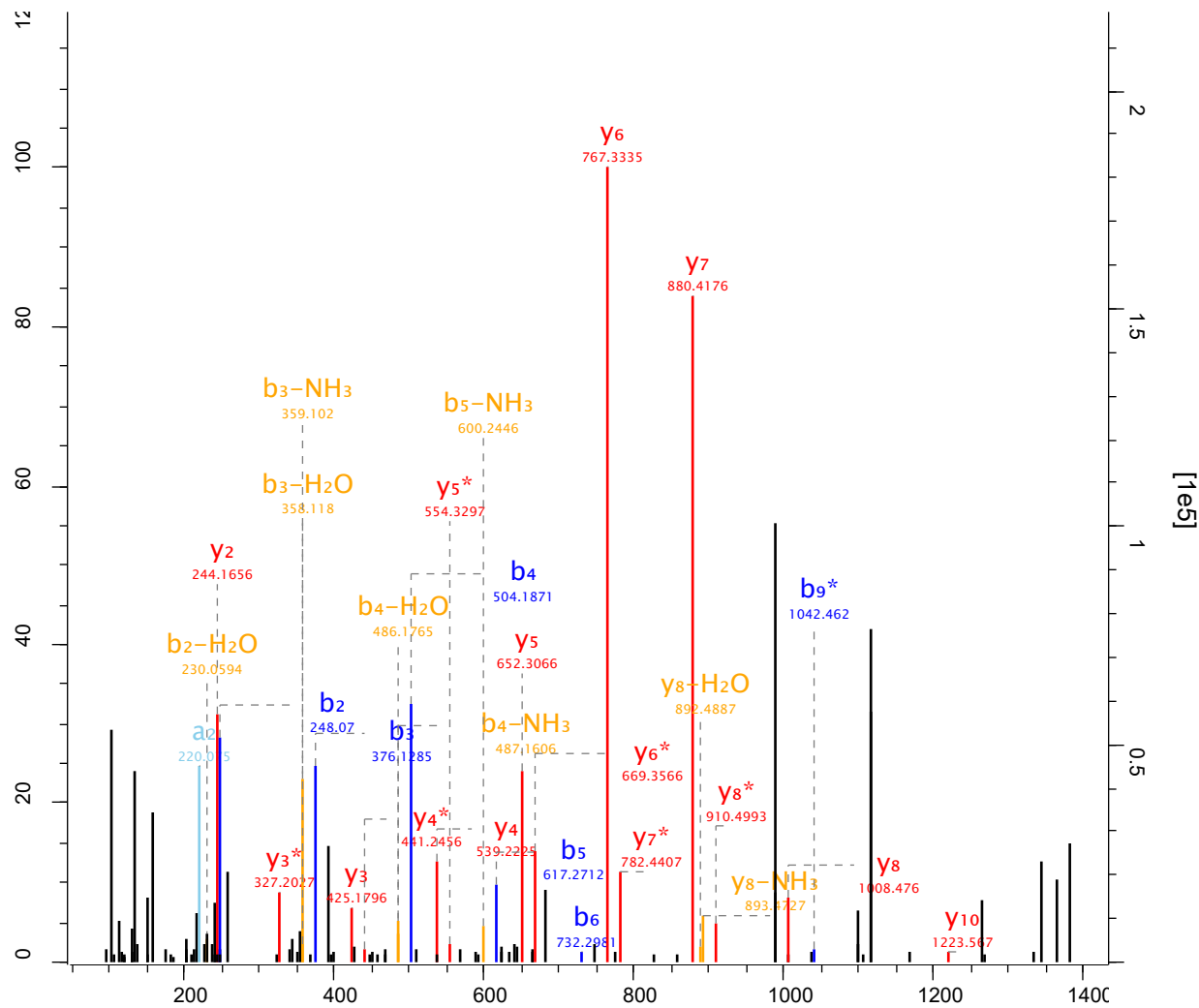


Q P S S P S V K -

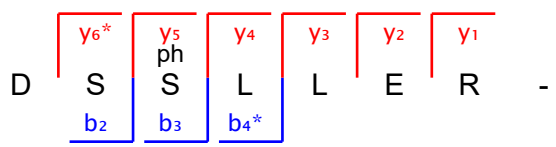
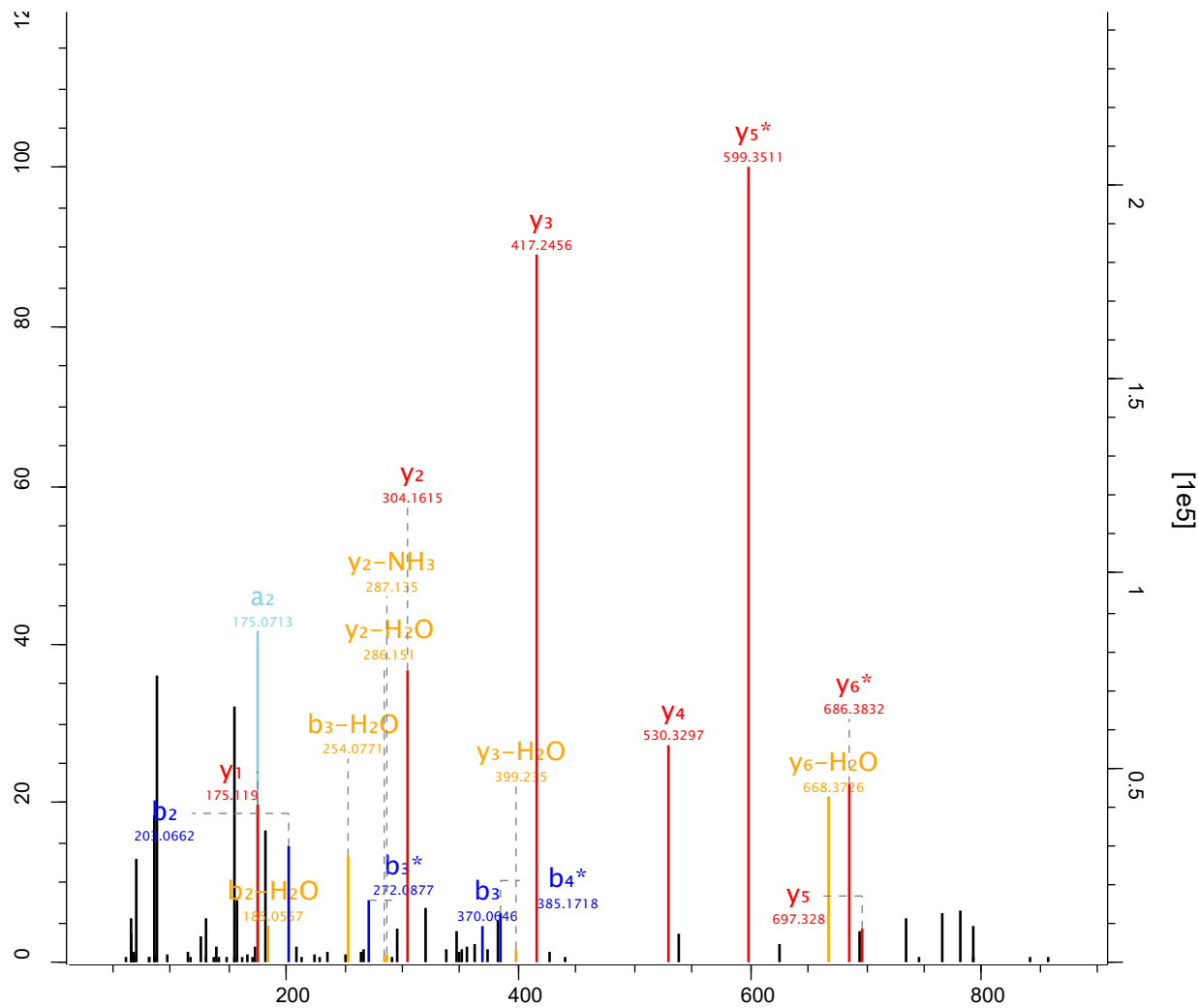
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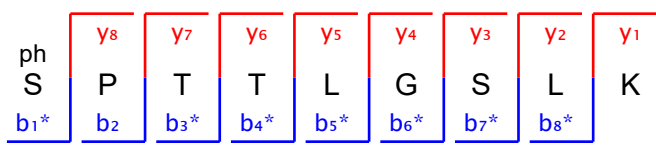
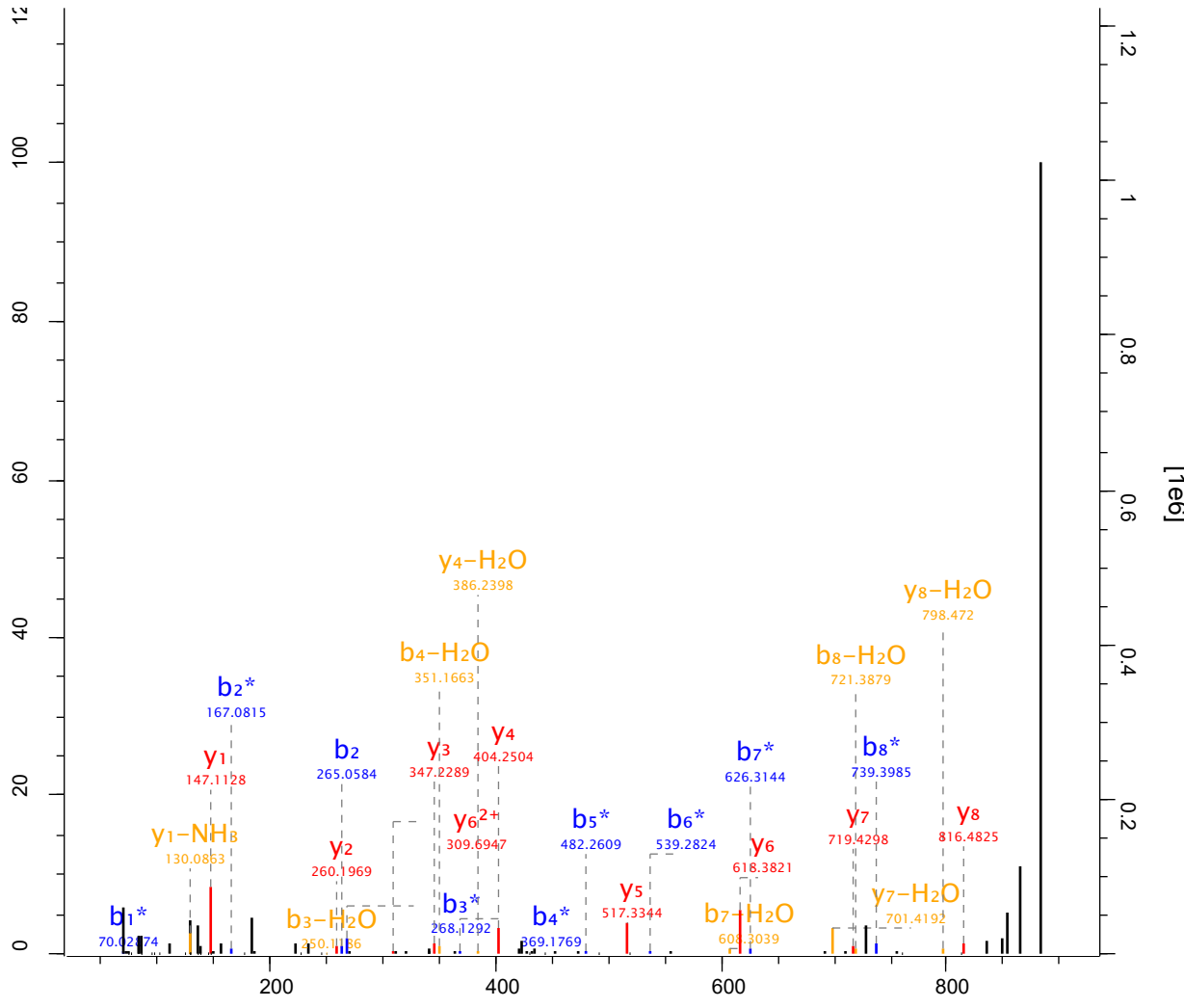
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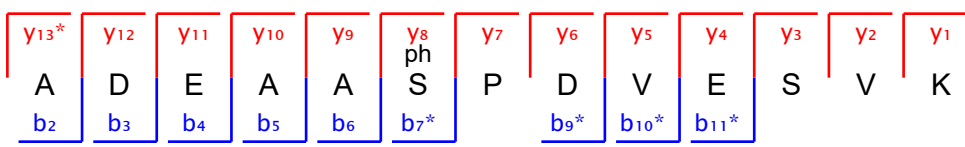
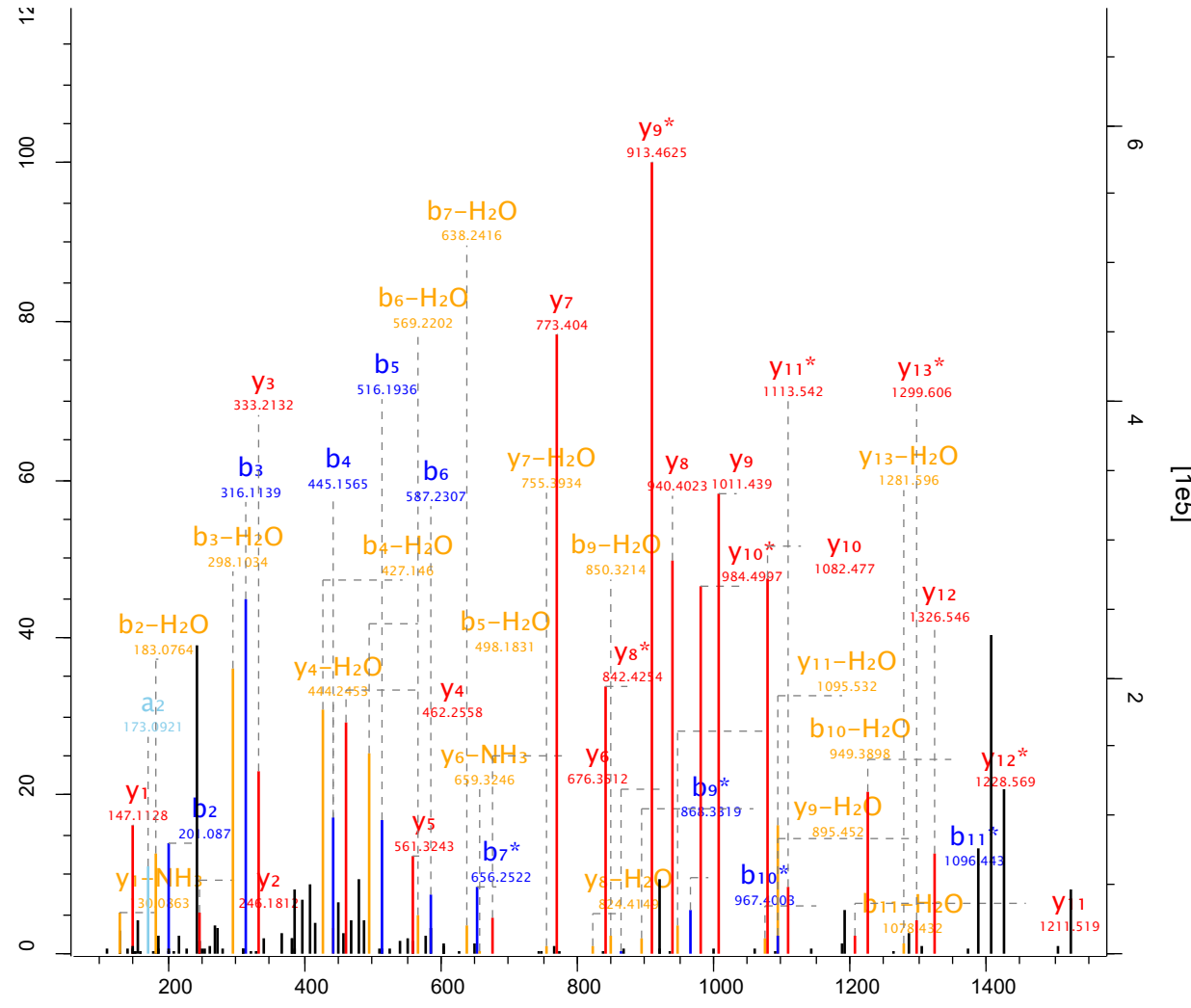
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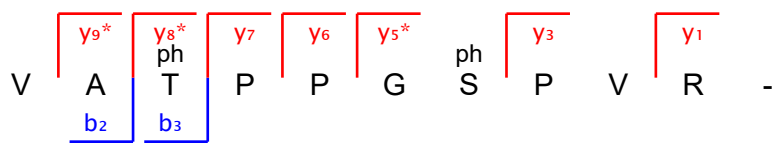
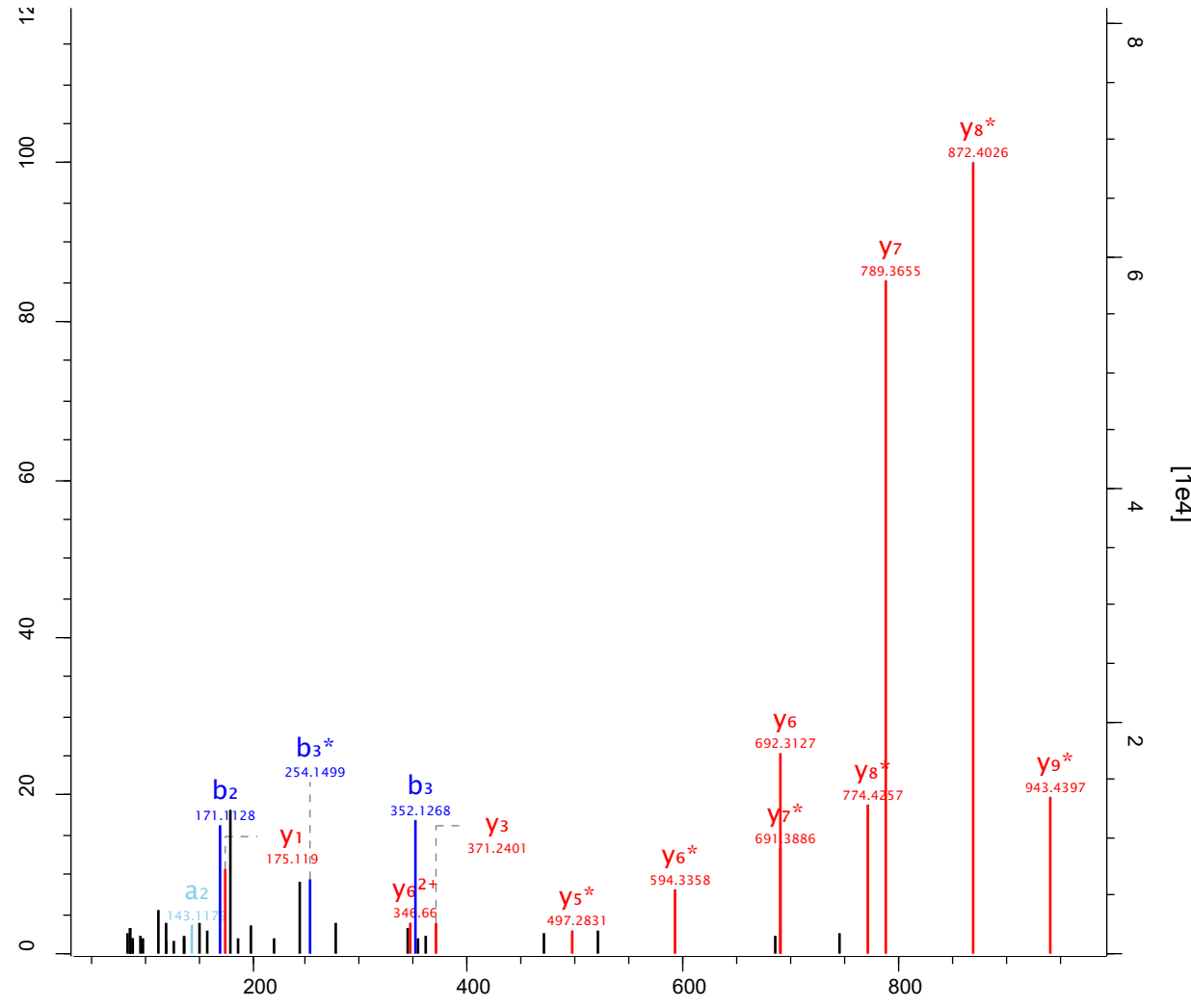
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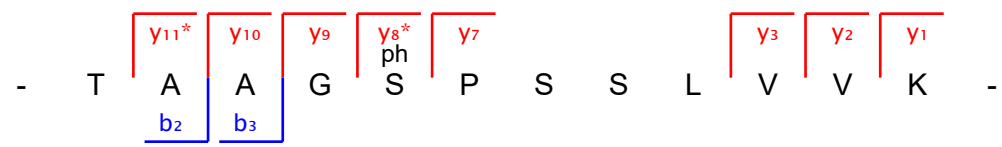
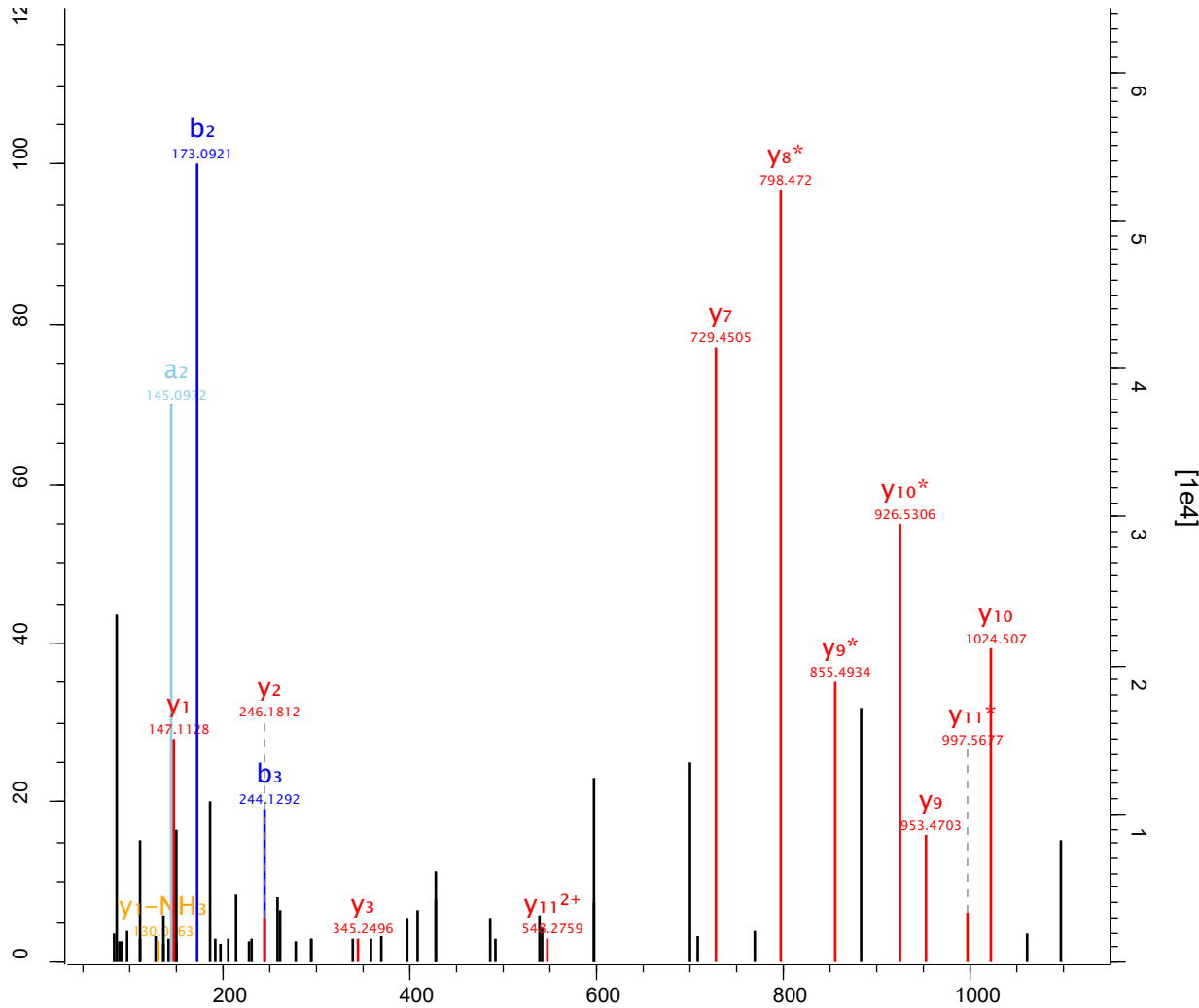
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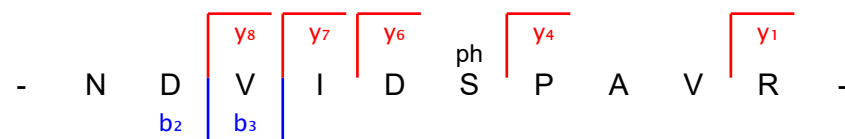
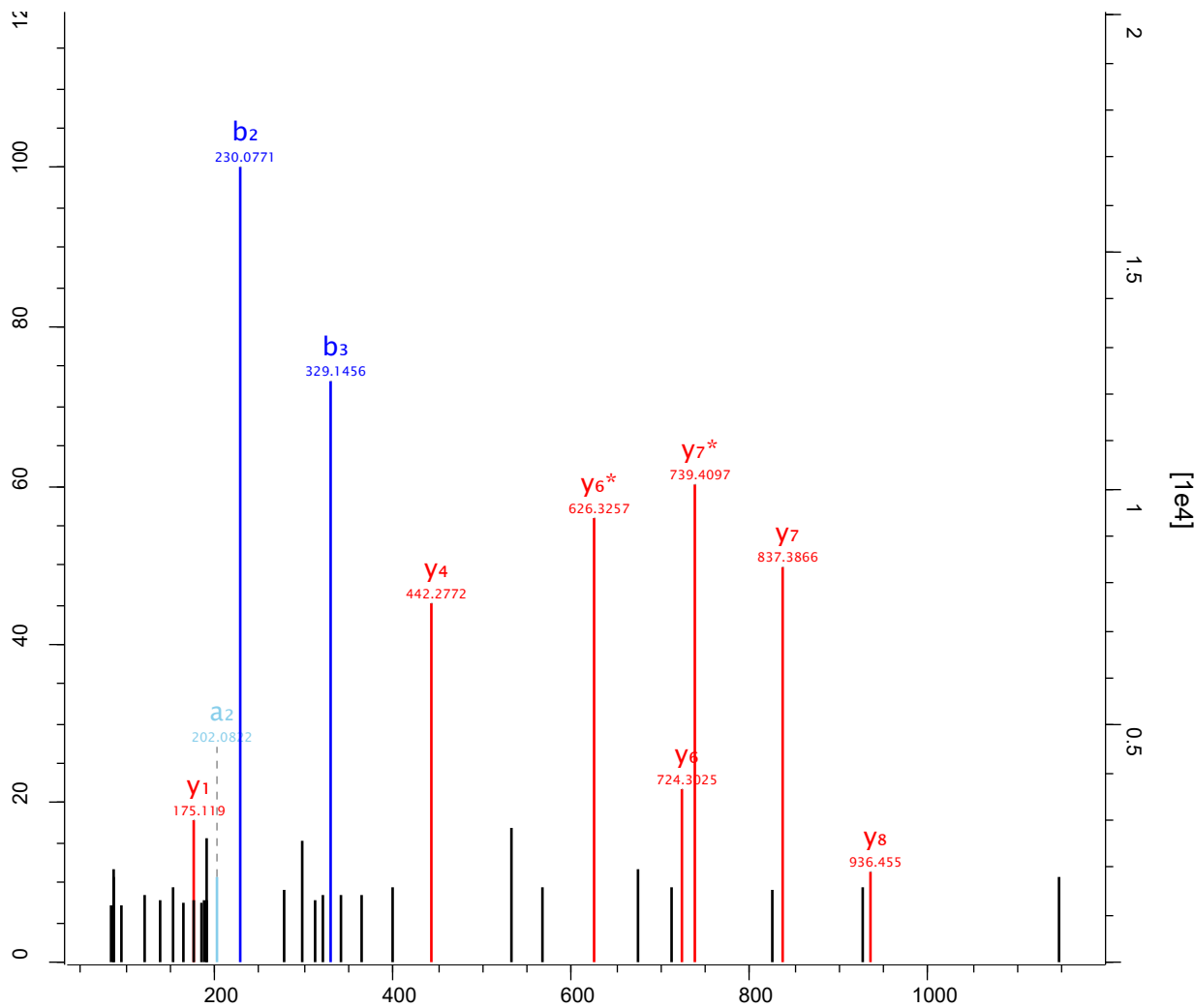
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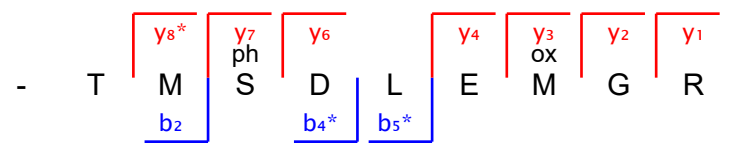
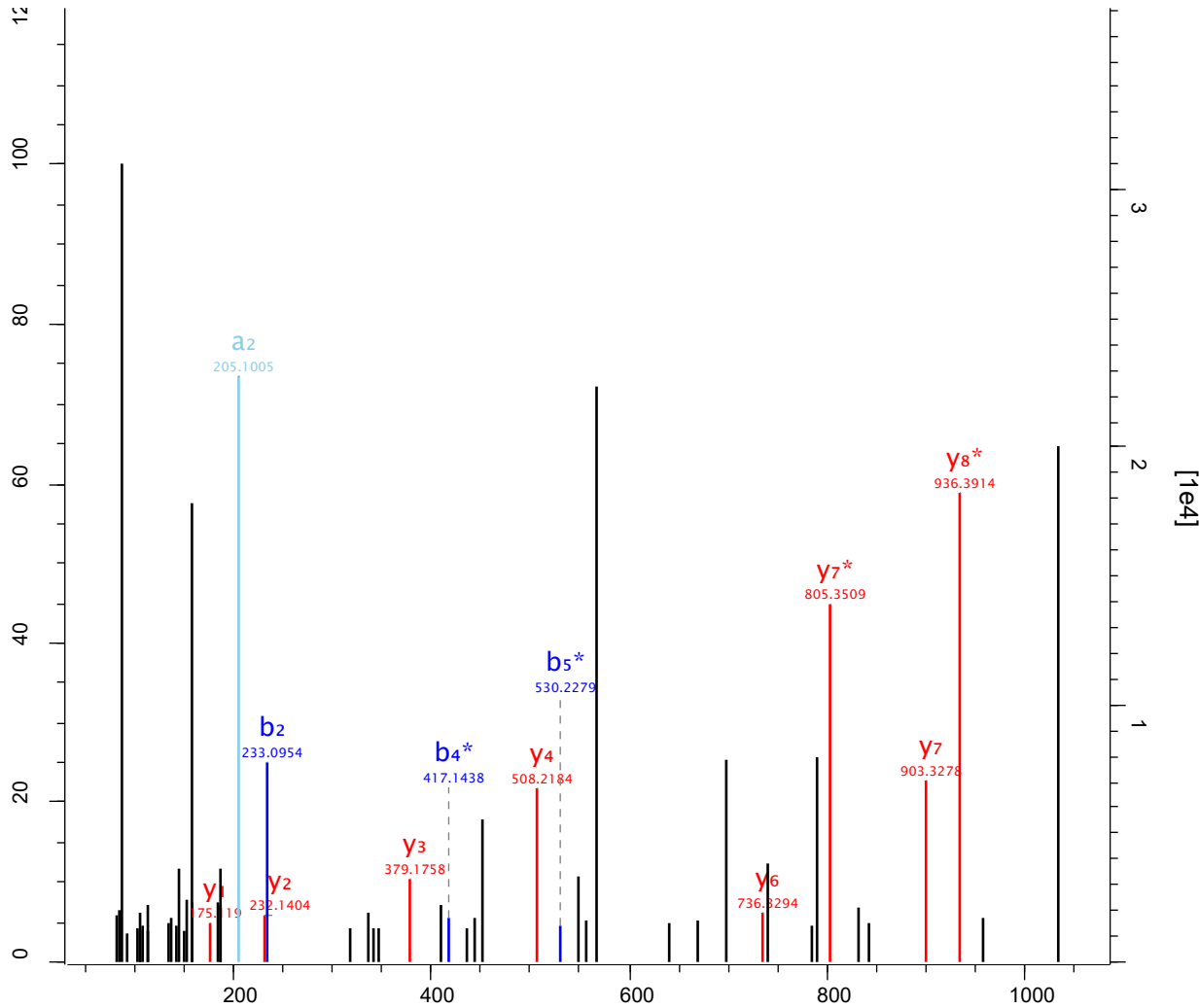
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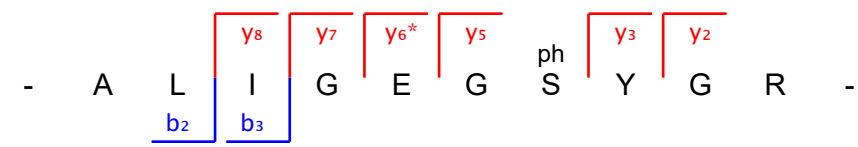
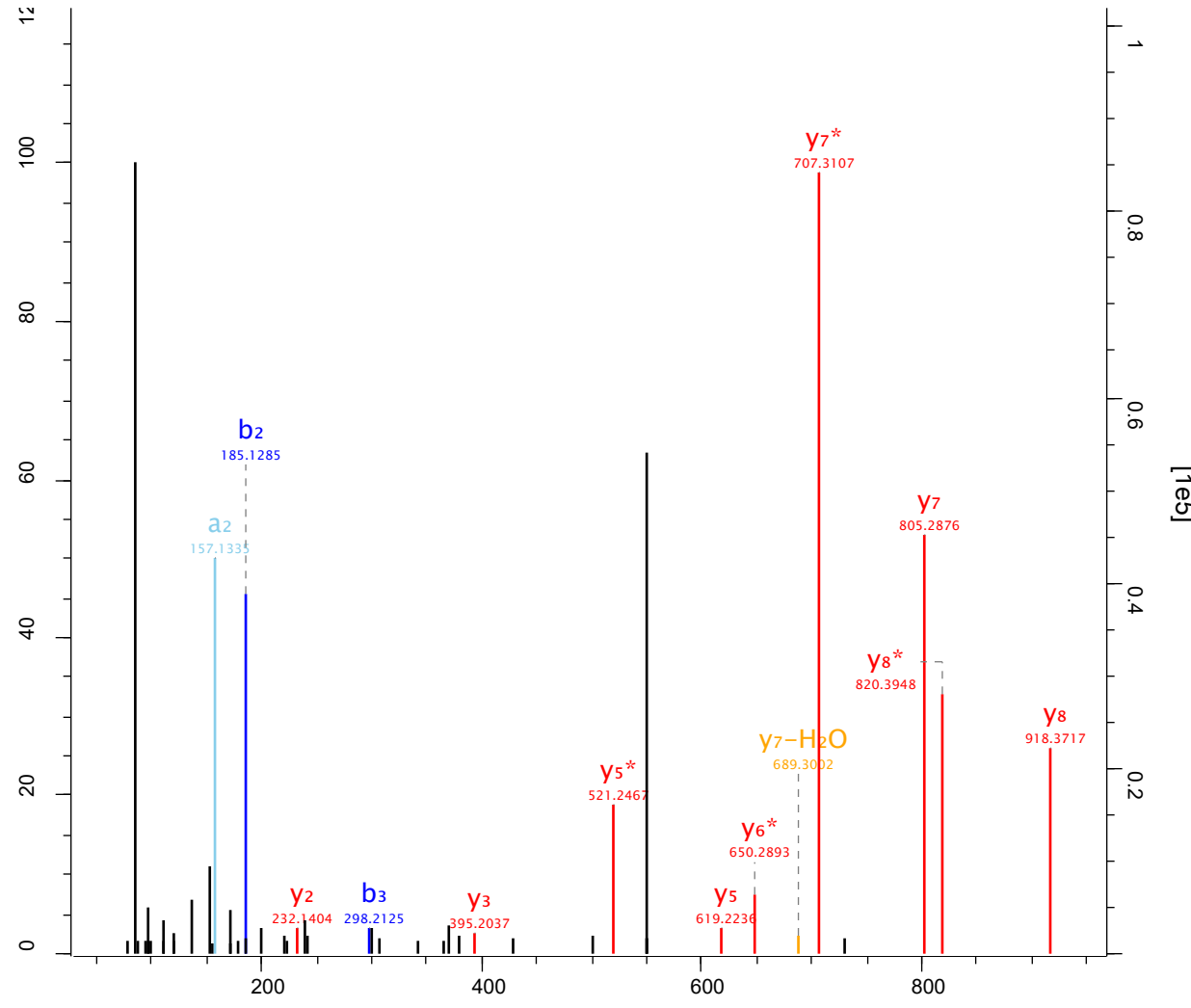
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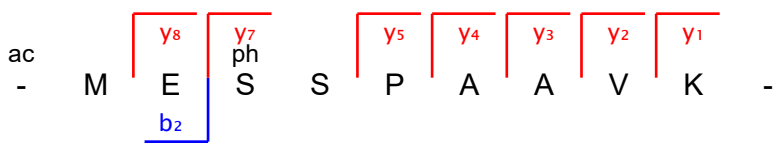
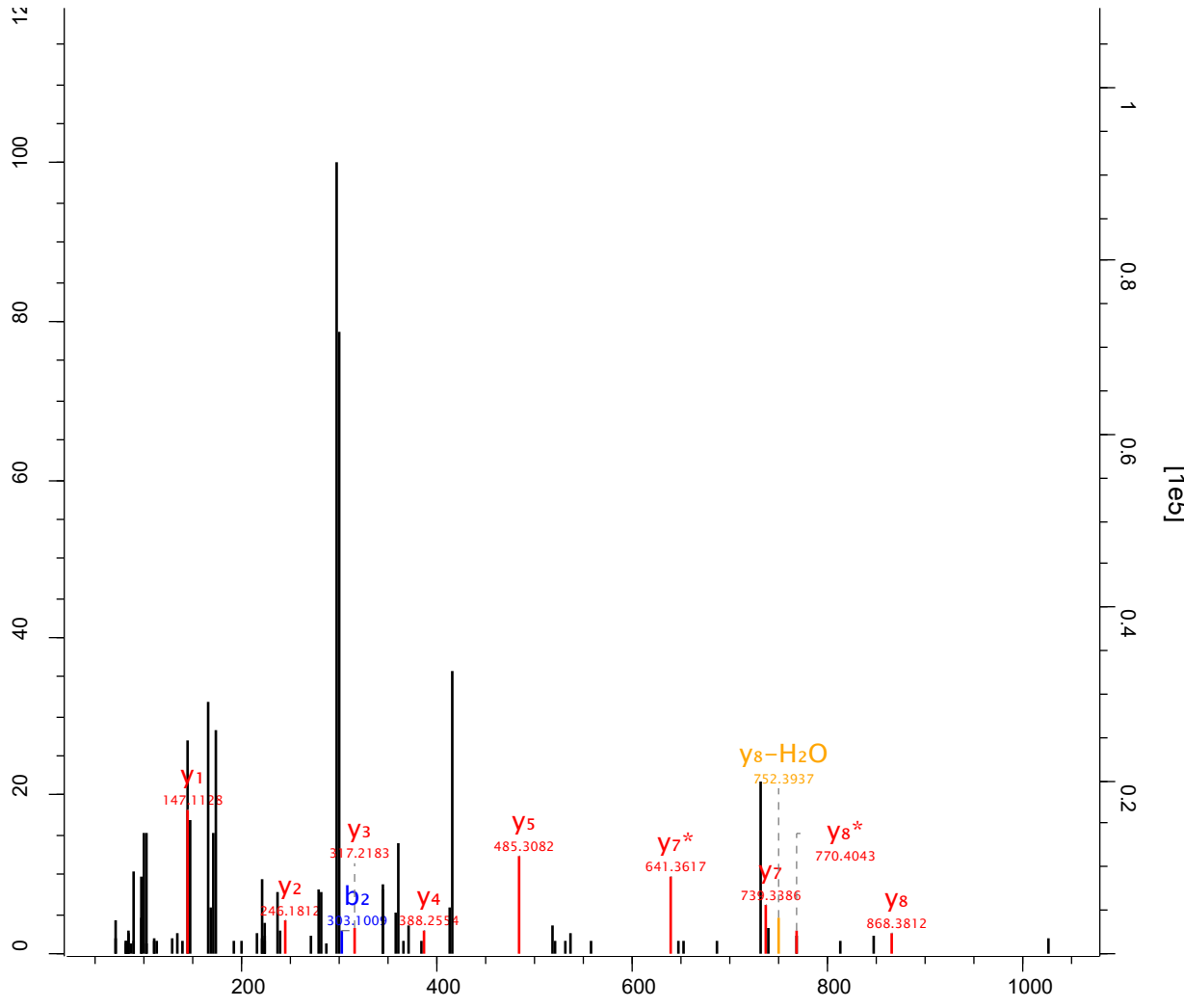
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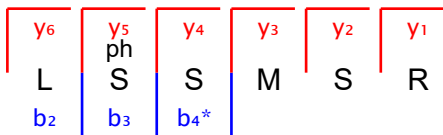
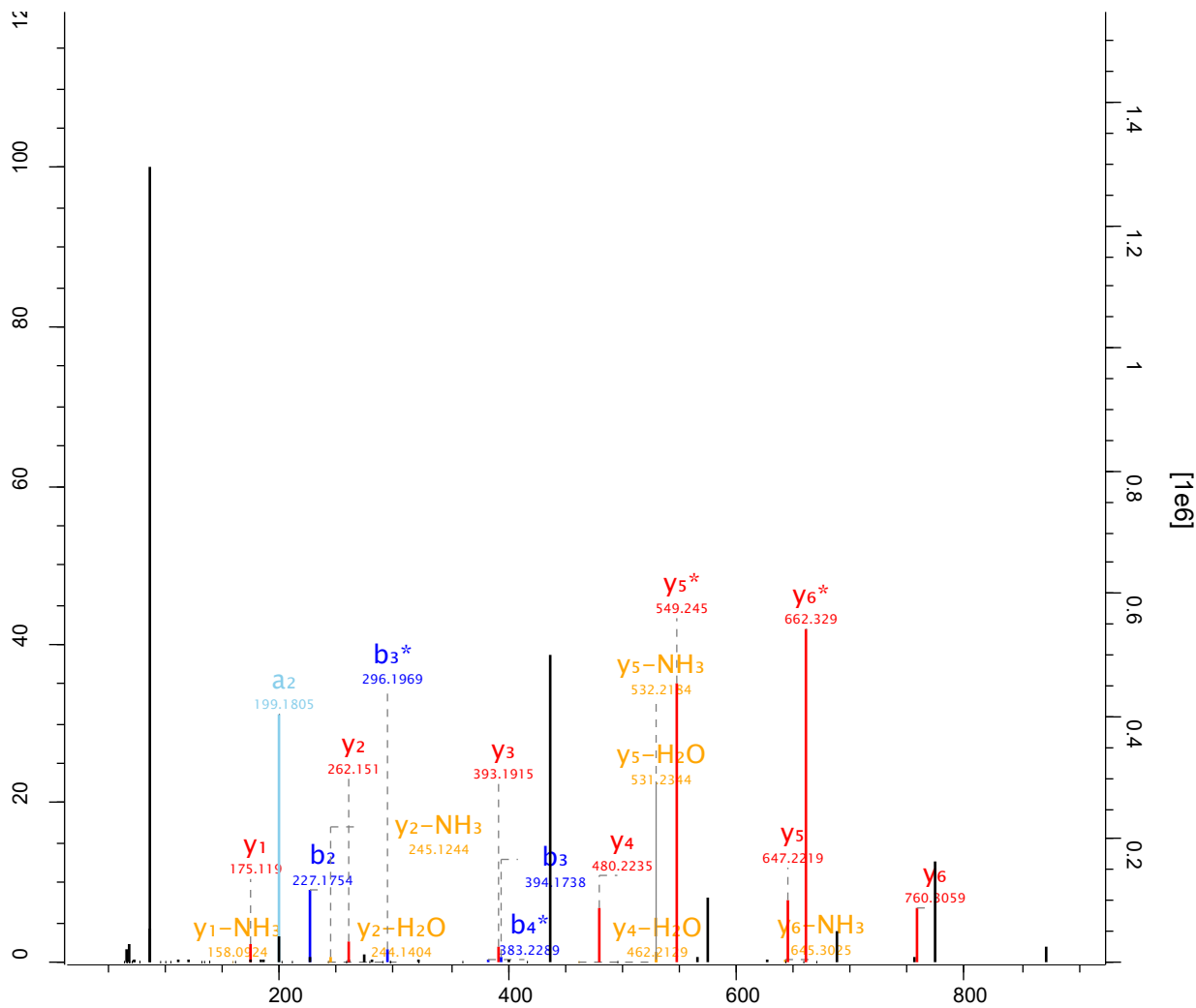
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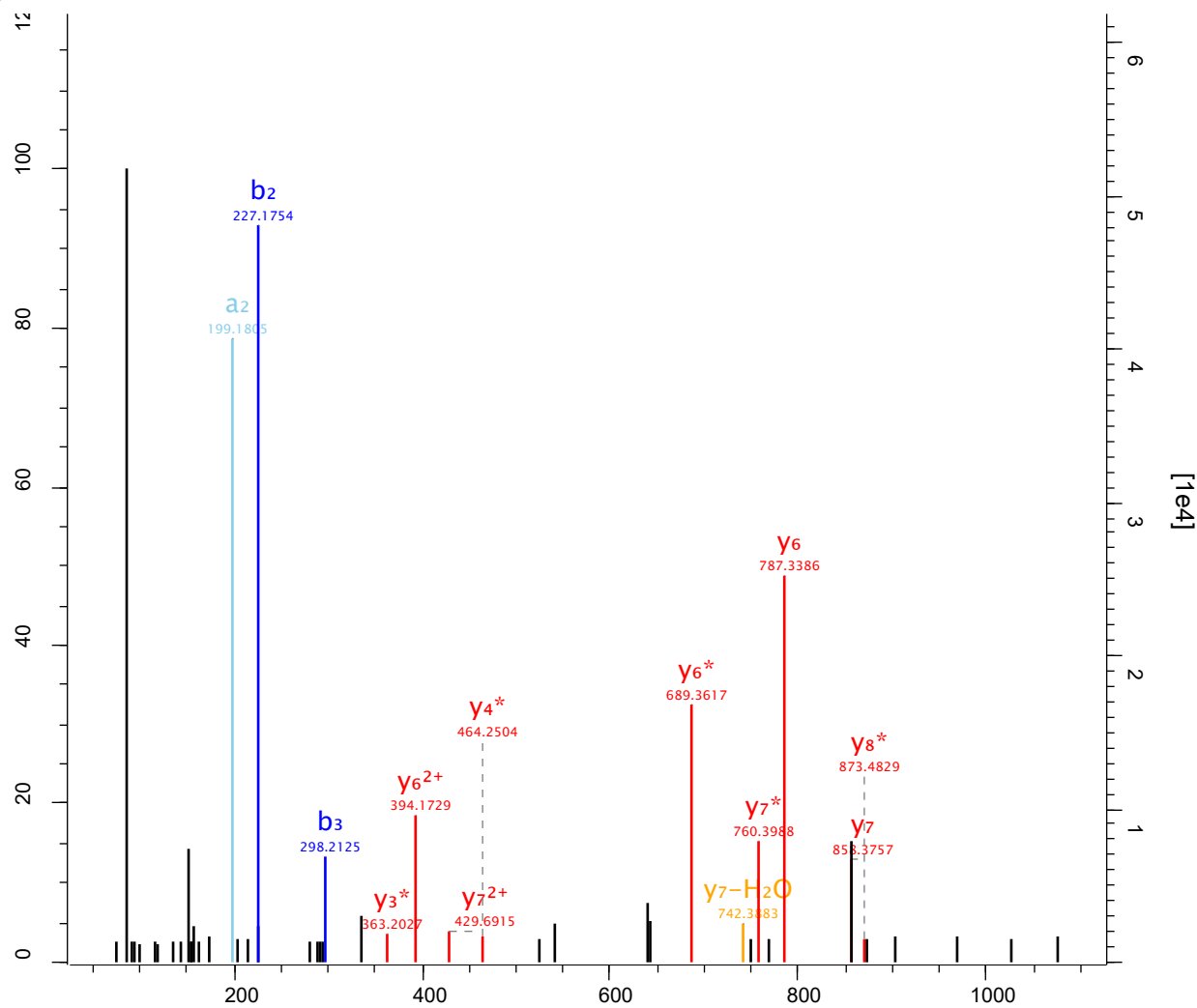
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Raw file Scan Method Score m/z
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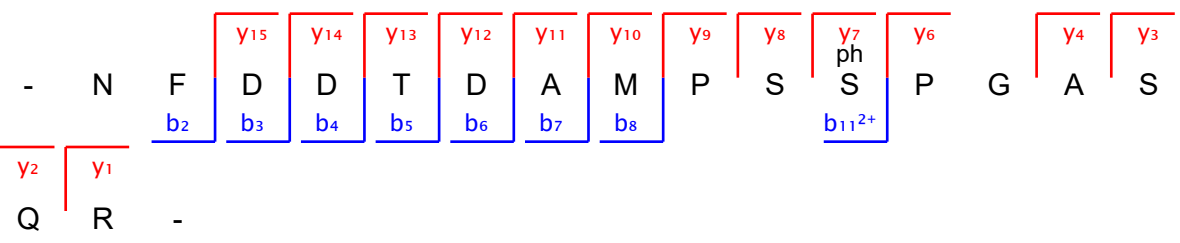
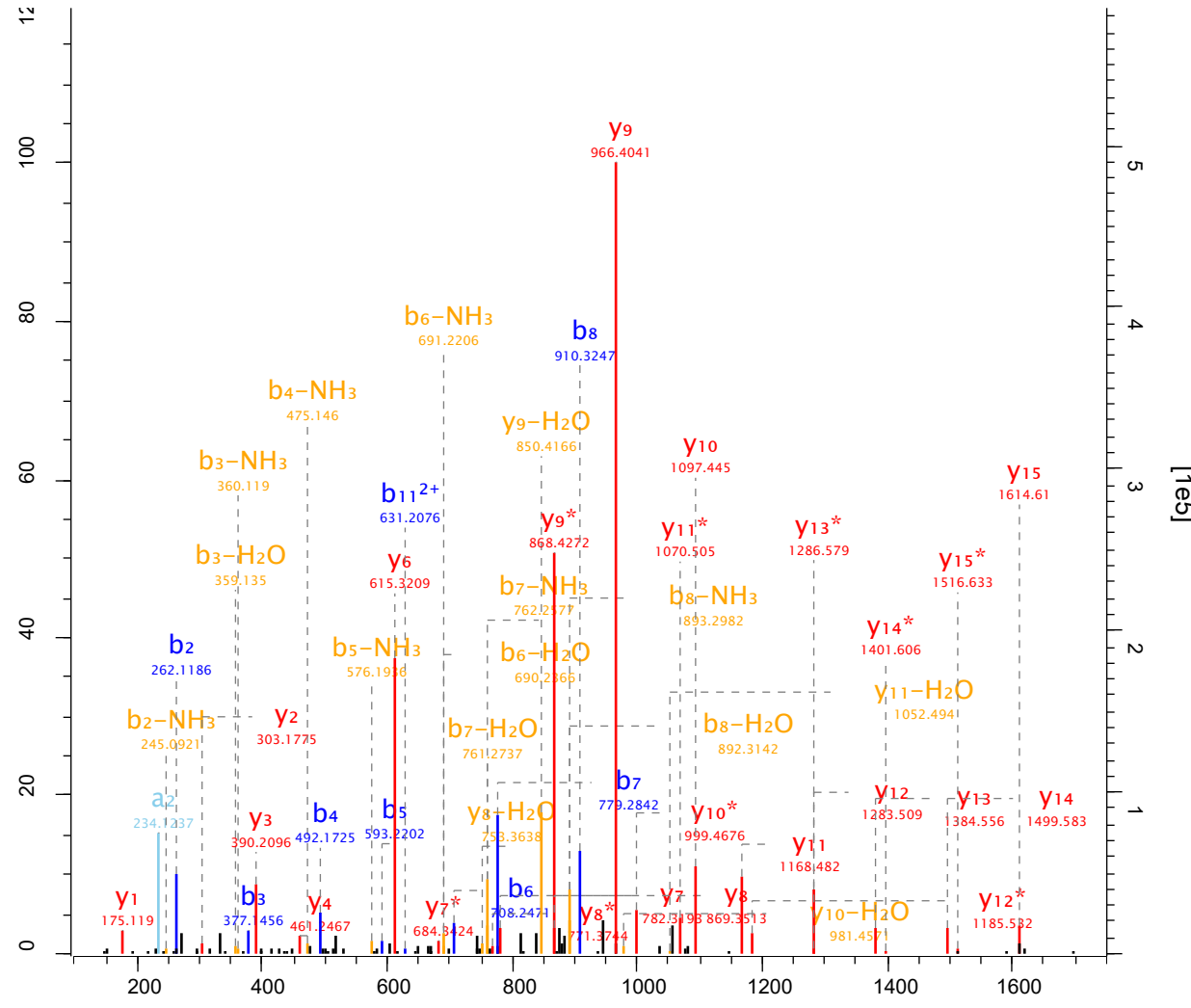


Raw file Scan Method Score m/z
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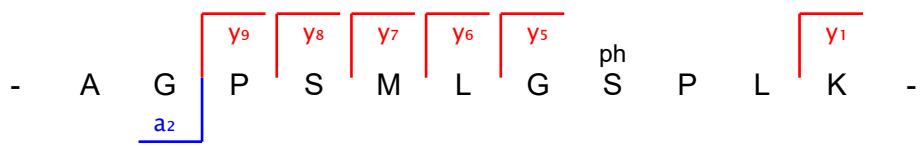
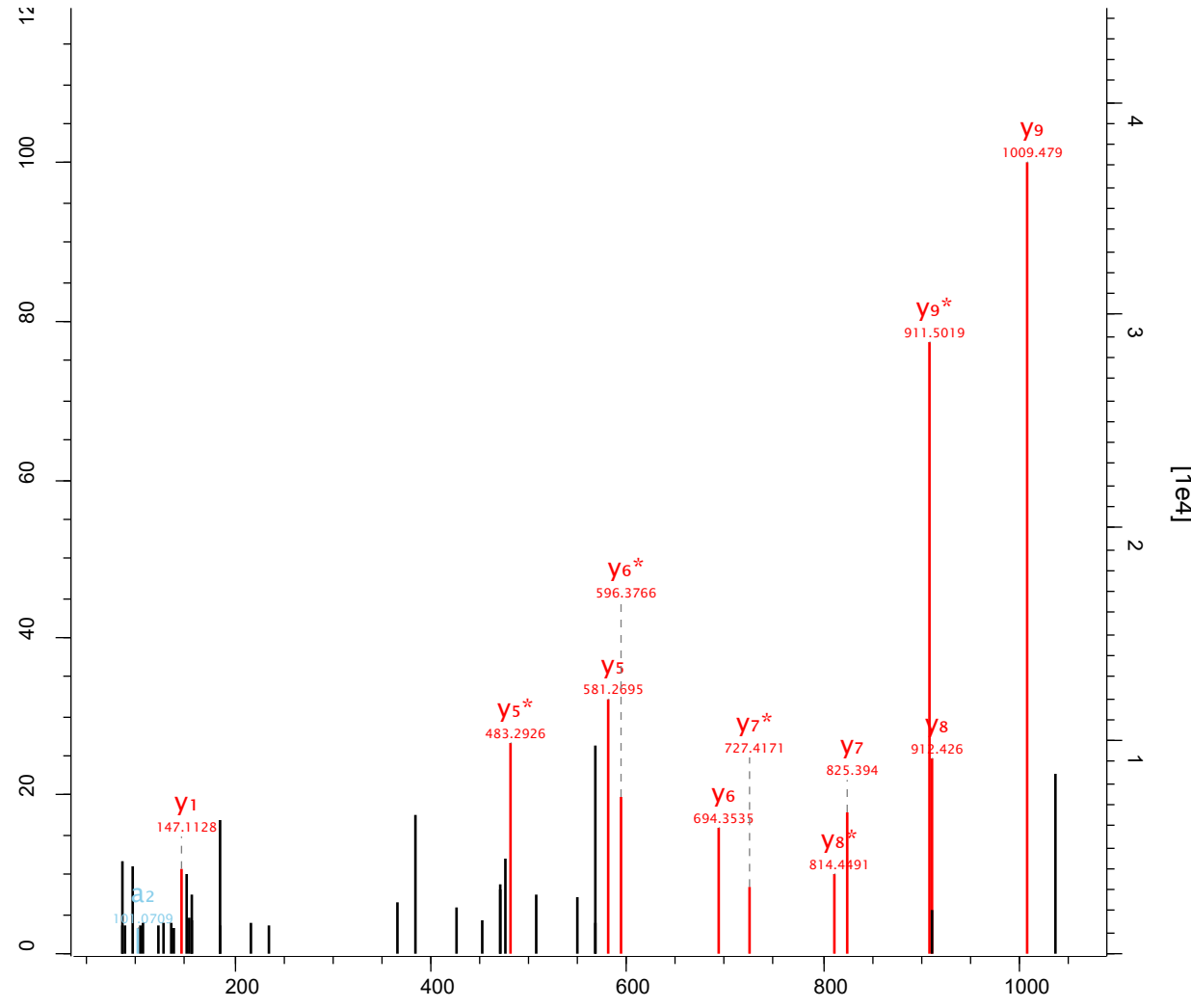


- I L A P Q T S F K -
 b2 b3 y8* y7 y6 y4* y3* ph

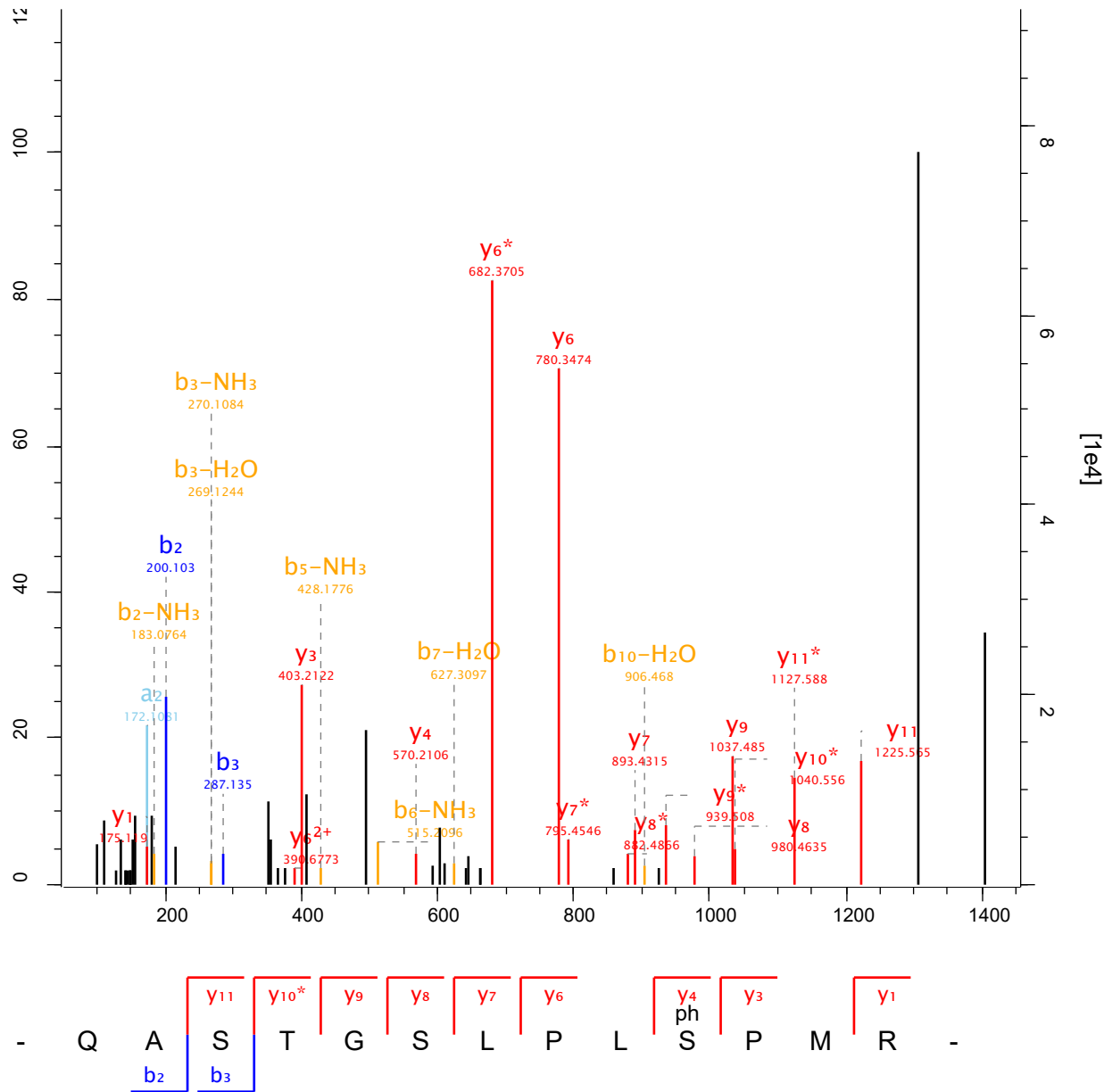
Raw file Scan Method Score m/z
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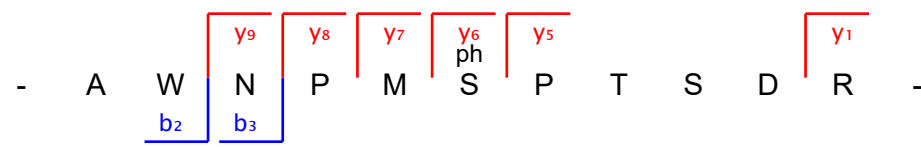
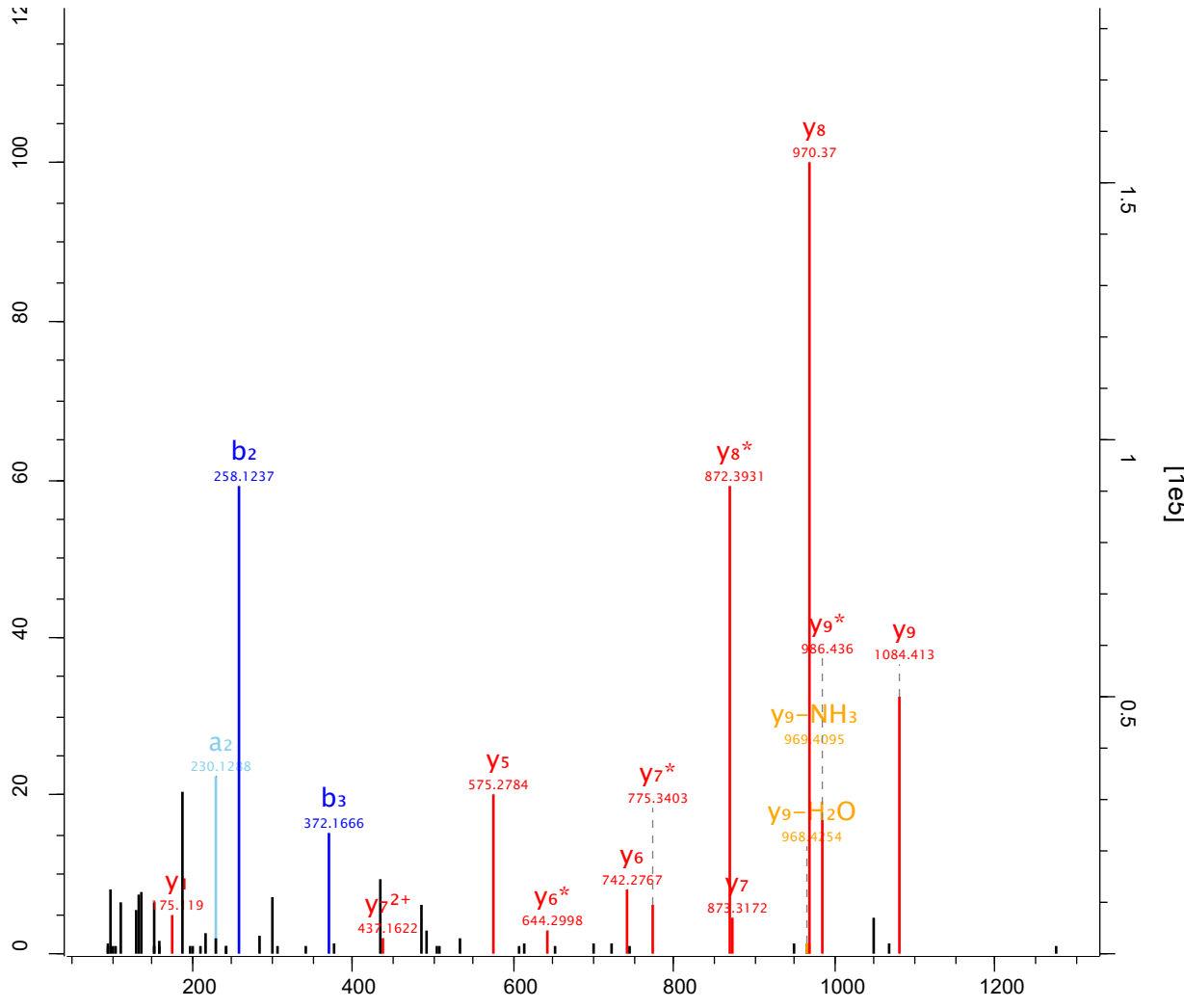
Raw file Scan Method Score m/z
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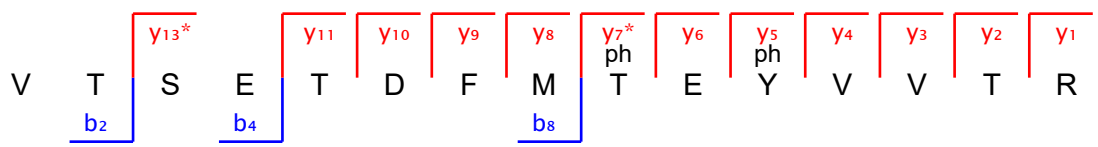
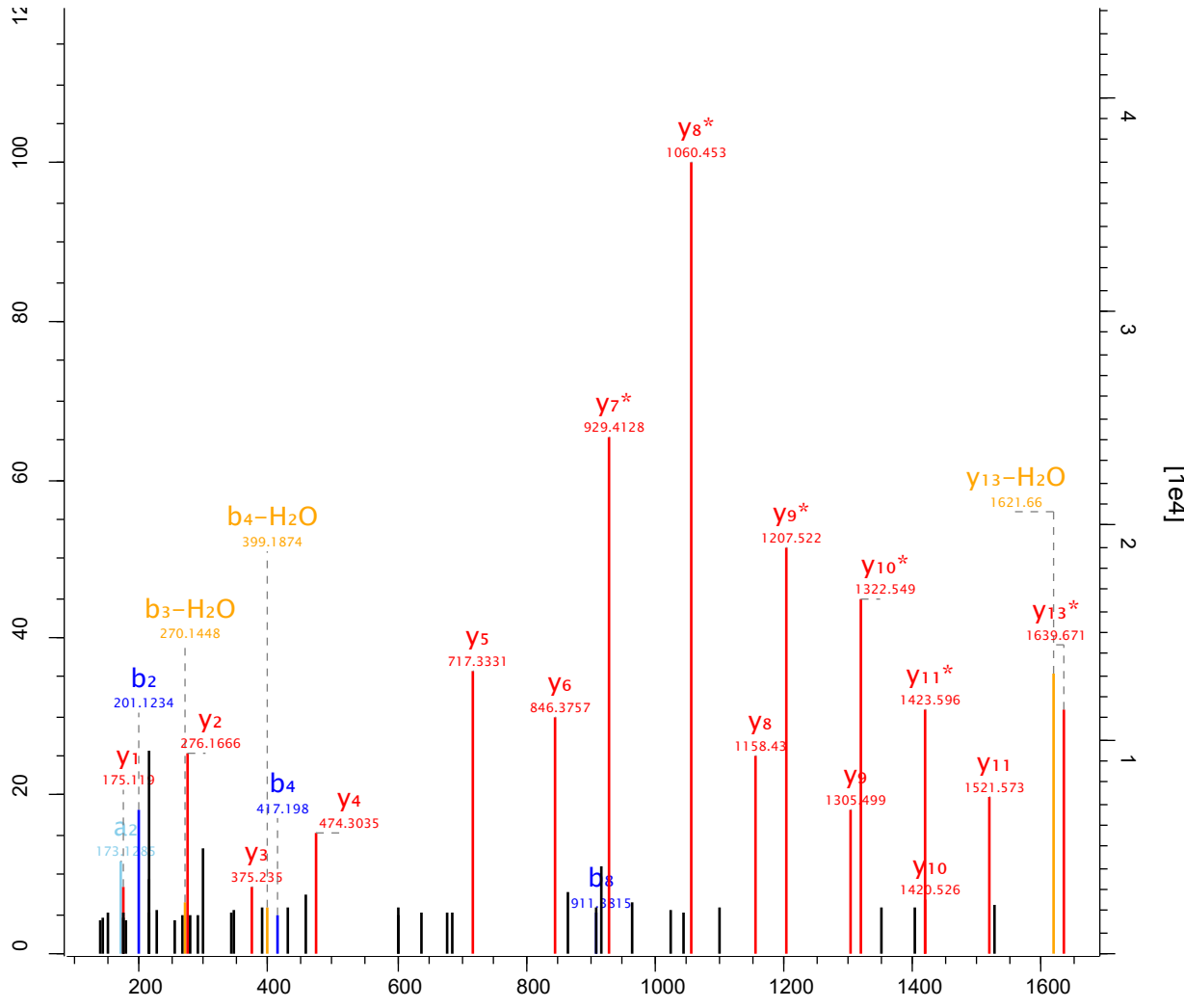
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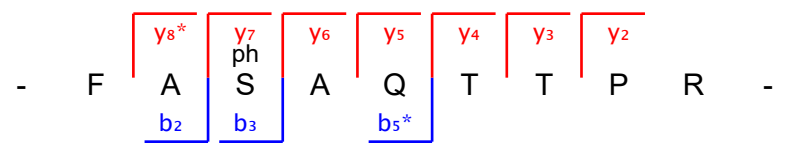
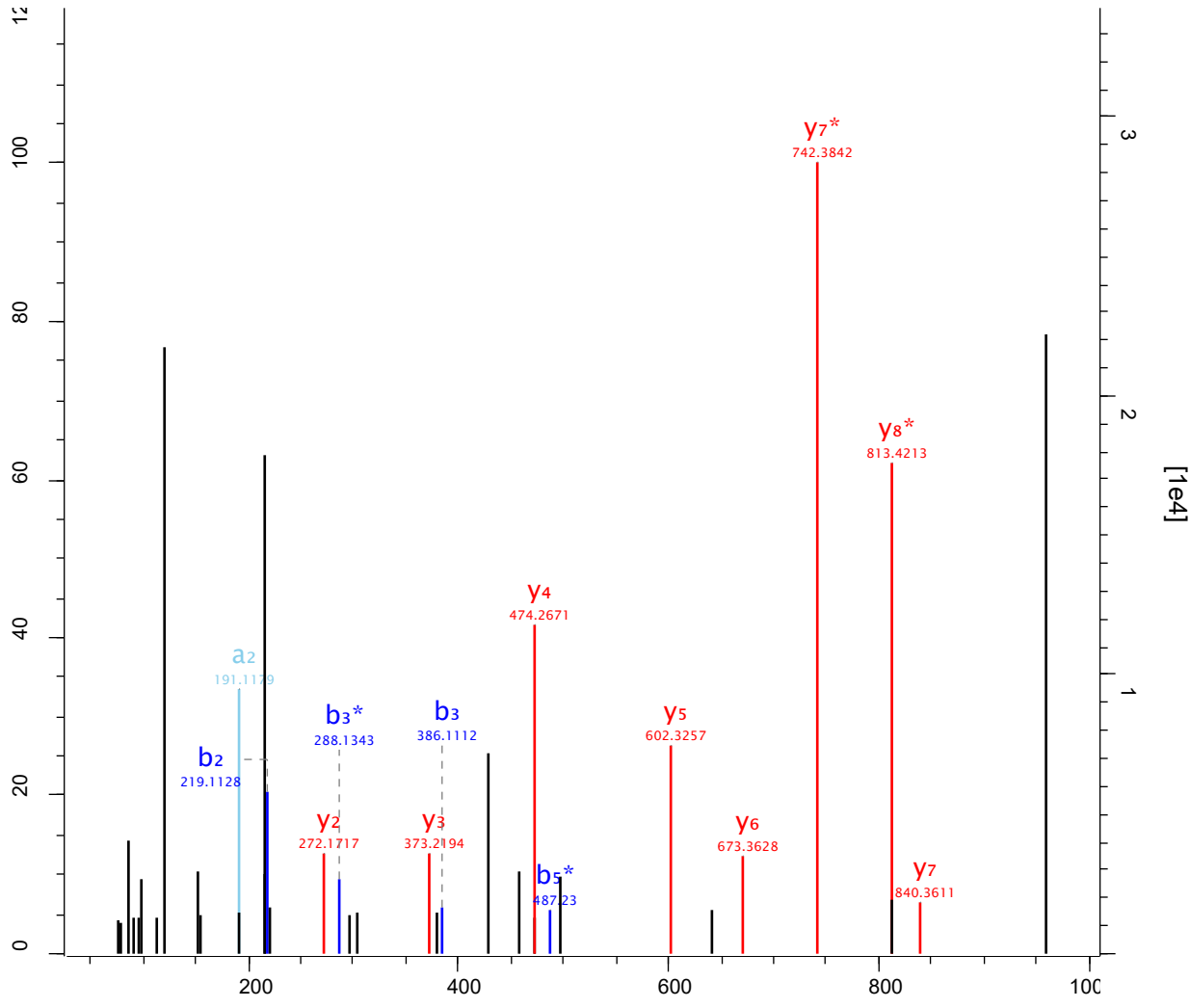
Raw file Scan Method Score m/z
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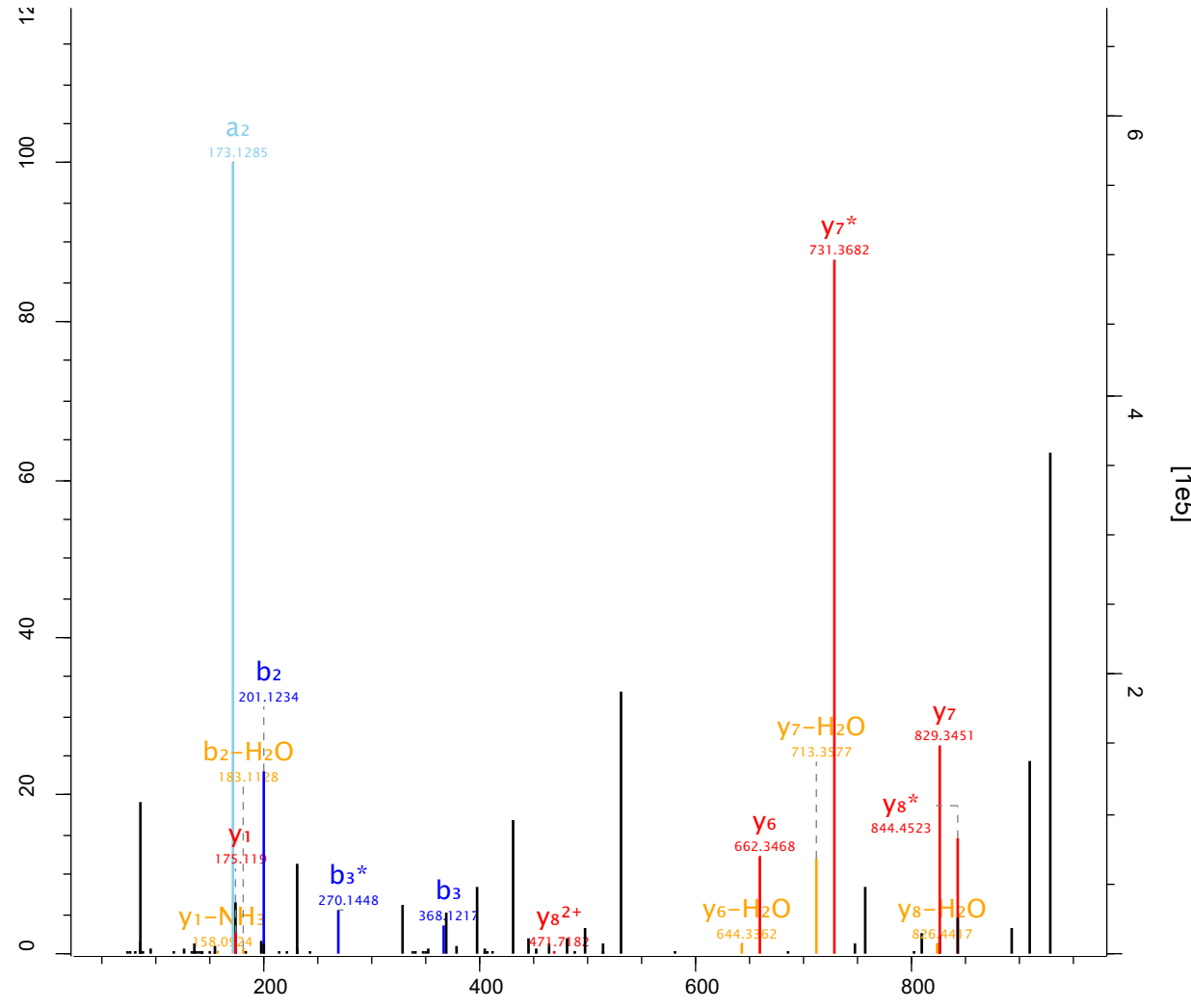
Raw file Scan Method Score m/z
 sys_15_3 35303 FTMS; HCD 81.81 969.39



Raw file Scan Method Score m/z
 sys_15_3 5952 FTMS; HCD 62.34 529.74



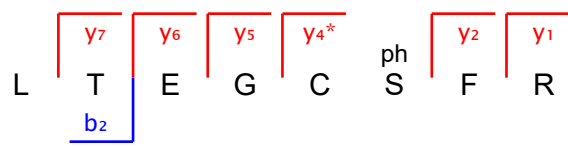
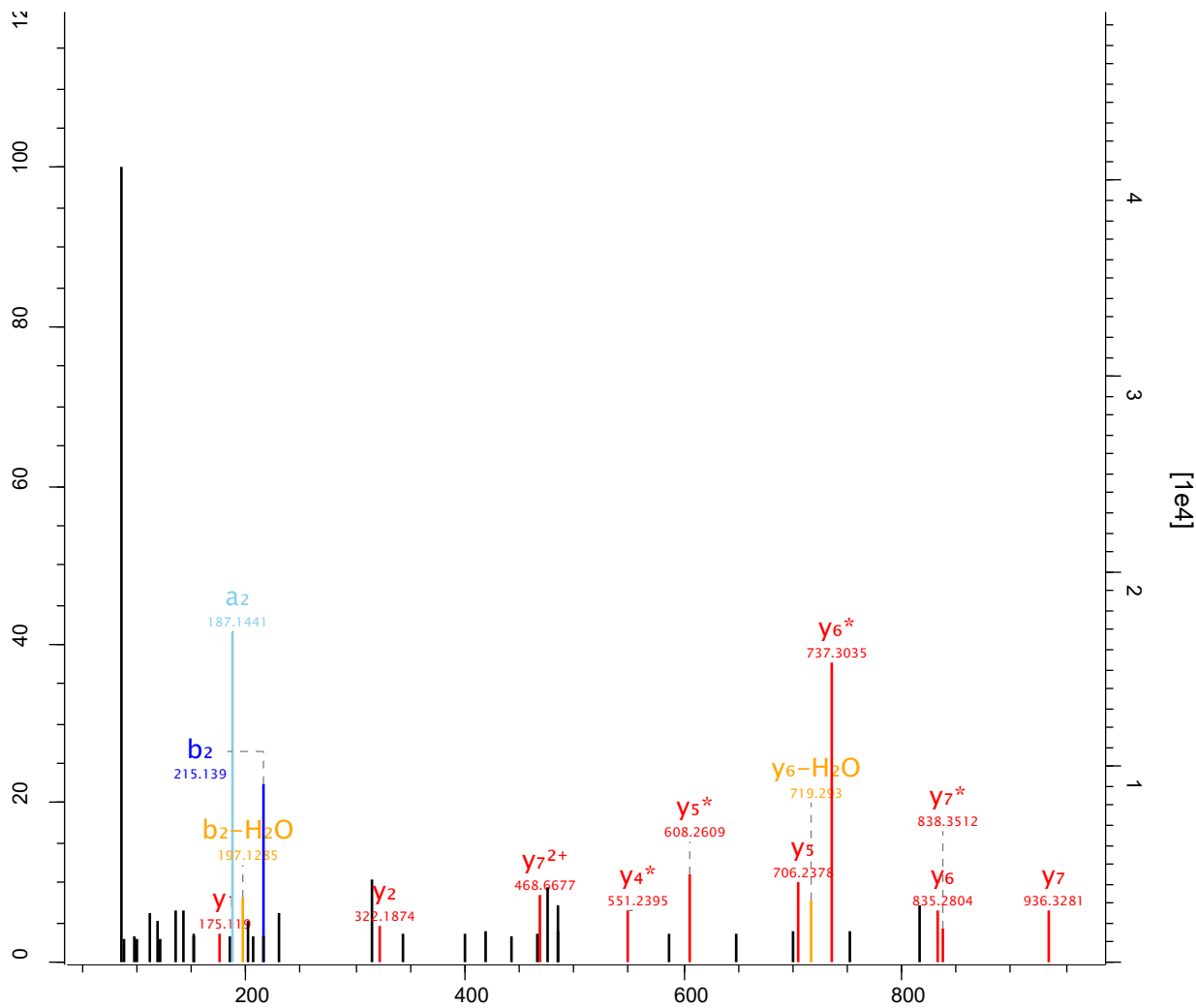
Raw file Scan Method Score m/z
 sys_15_3 7075 FTMS; HCD 63.69 515.23



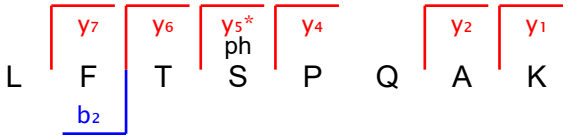
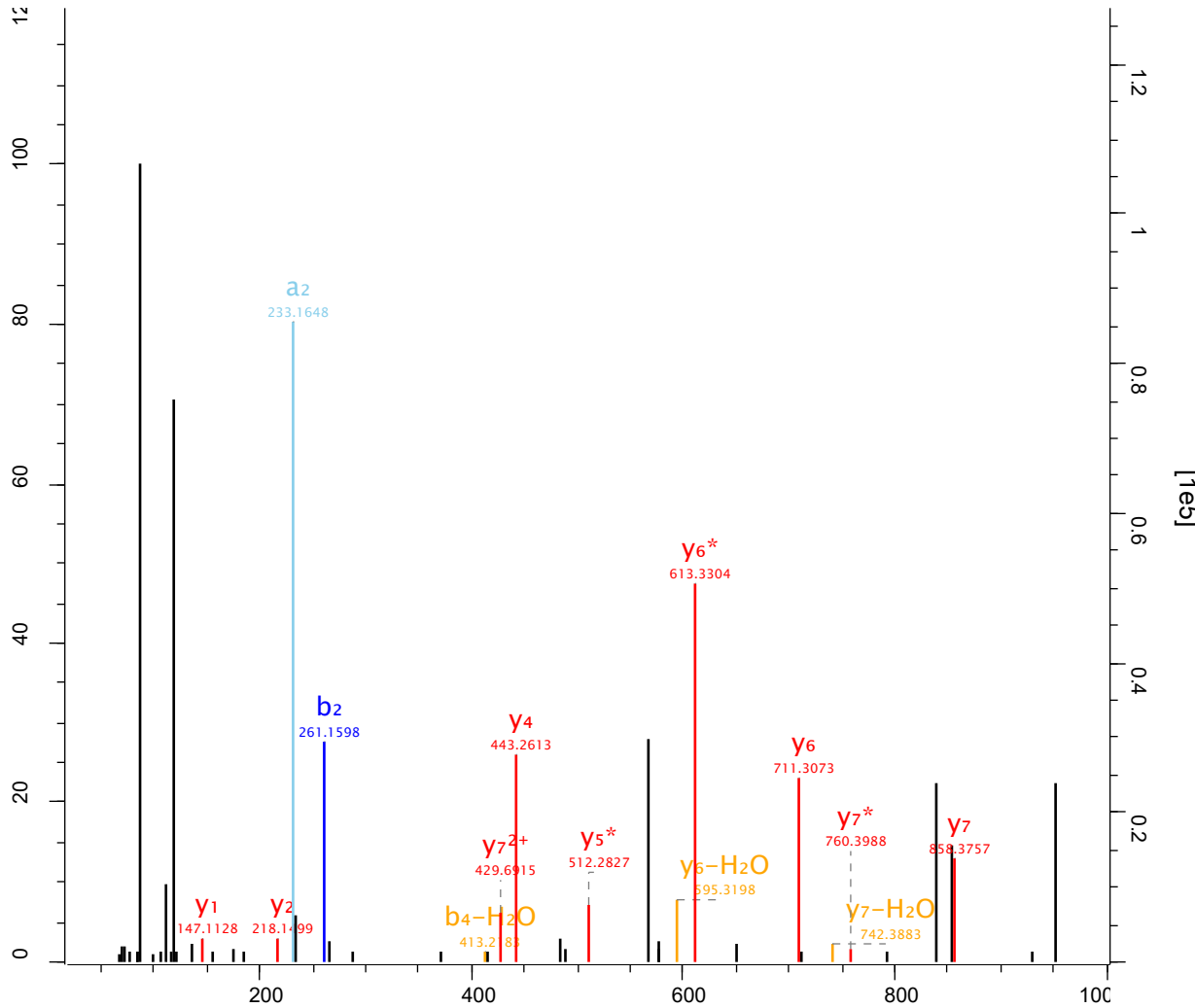
- S I S L S E A R -

Fragmentation mapping:
 - I: y₈^{*} (top), b₂ (bottom)
 - S: y₇ ph (top), b₃ (bottom)
 - S: y₆ (top)
 - A: y₁ (top)

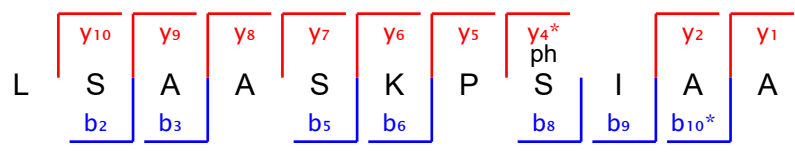
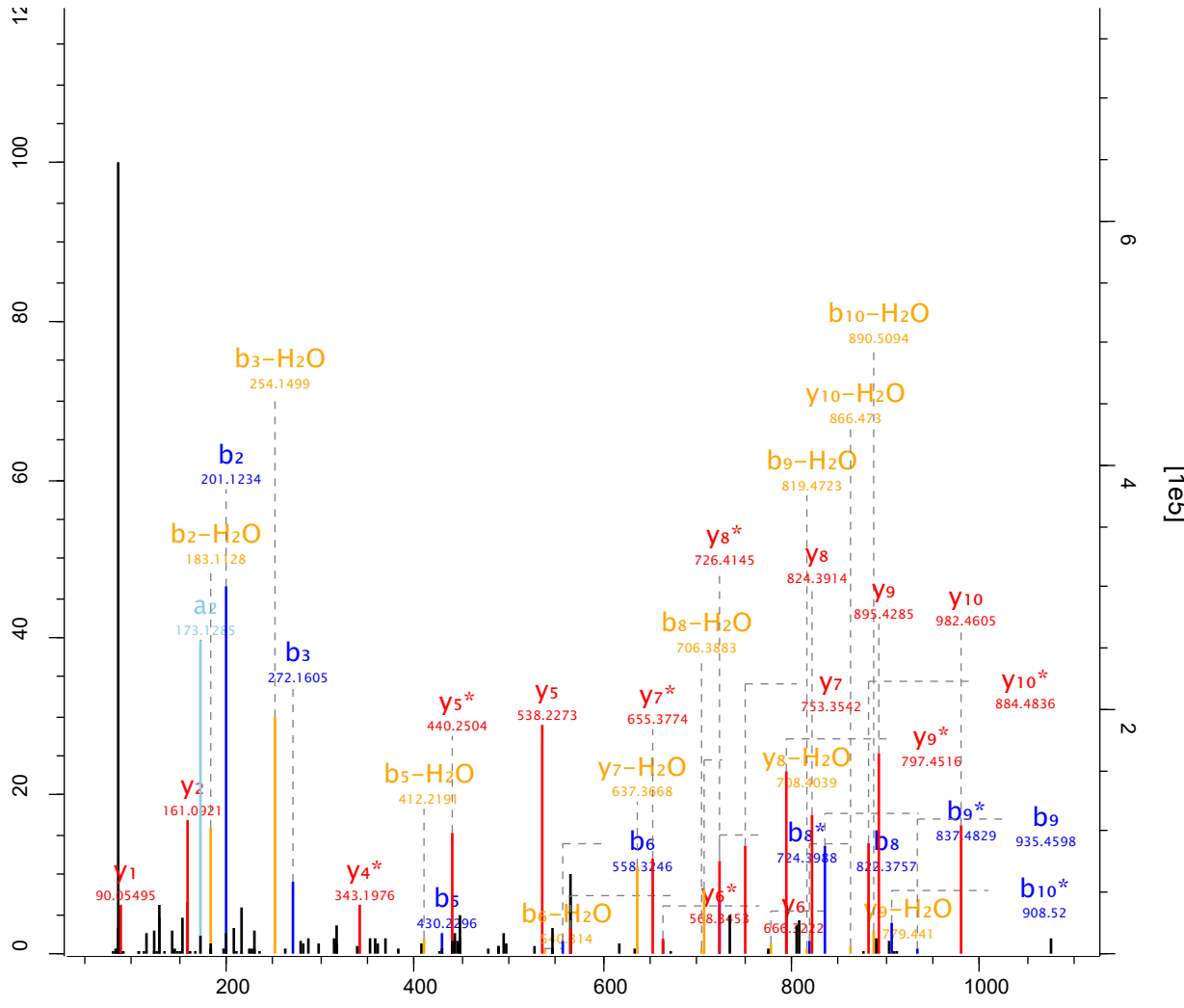
Raw file	Scan	Method	Score	m/z
sys_15_3	8180	FTMS; HCD	93.1	525.21



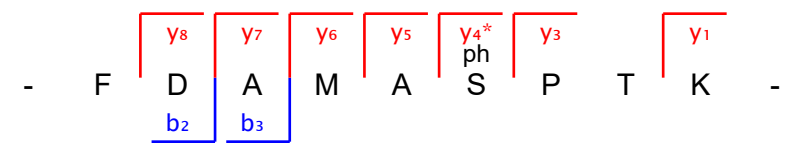
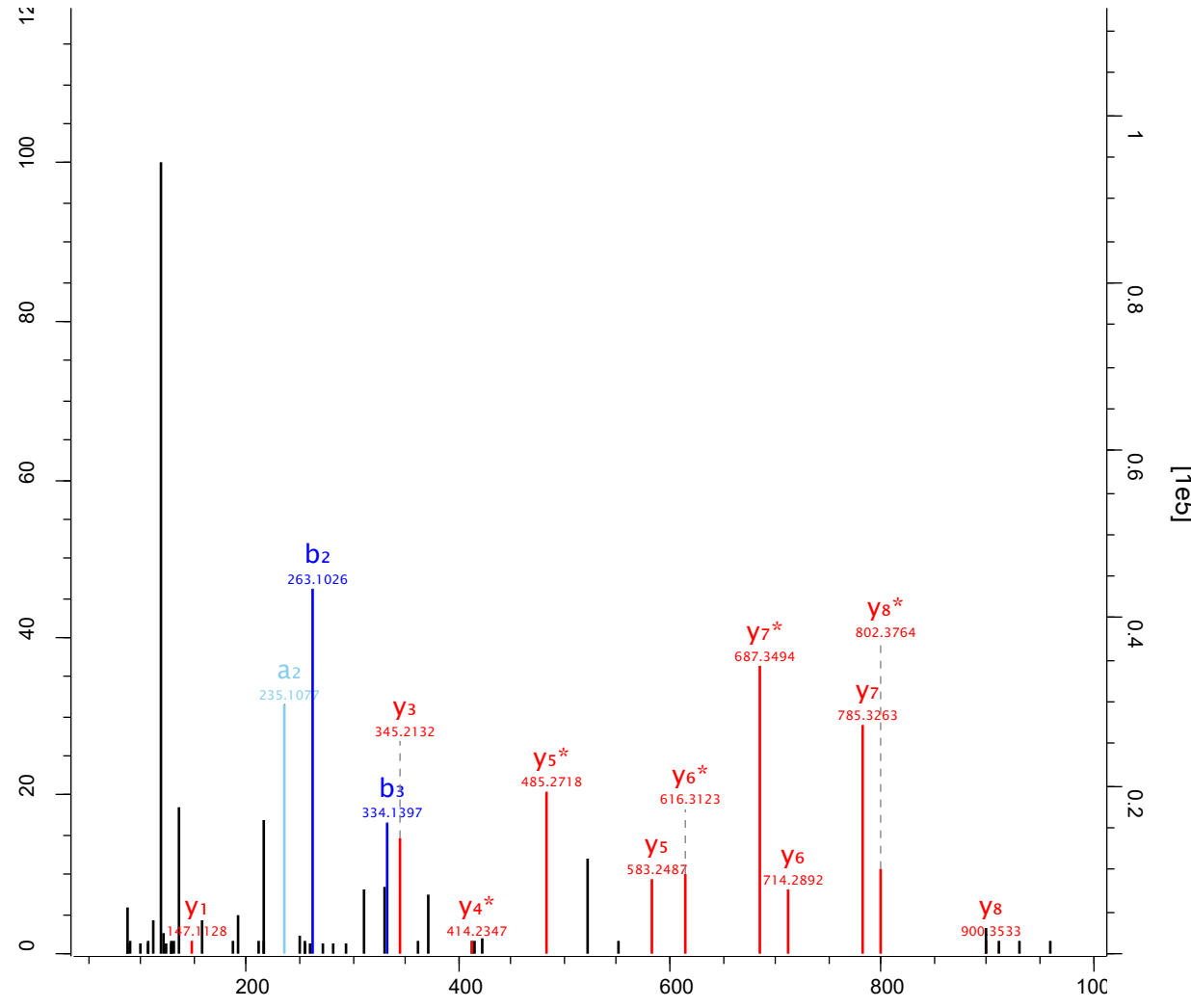
Raw file	Scan	Method	Score	m/z
sys_15_3	8618	FTMS; HCD	99.82	486.23



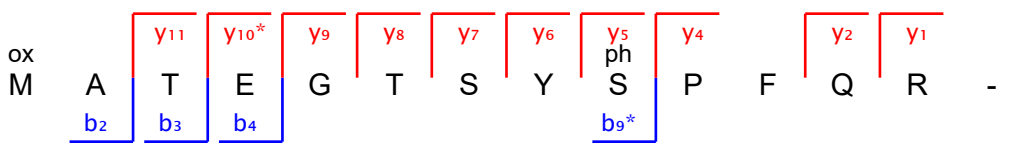
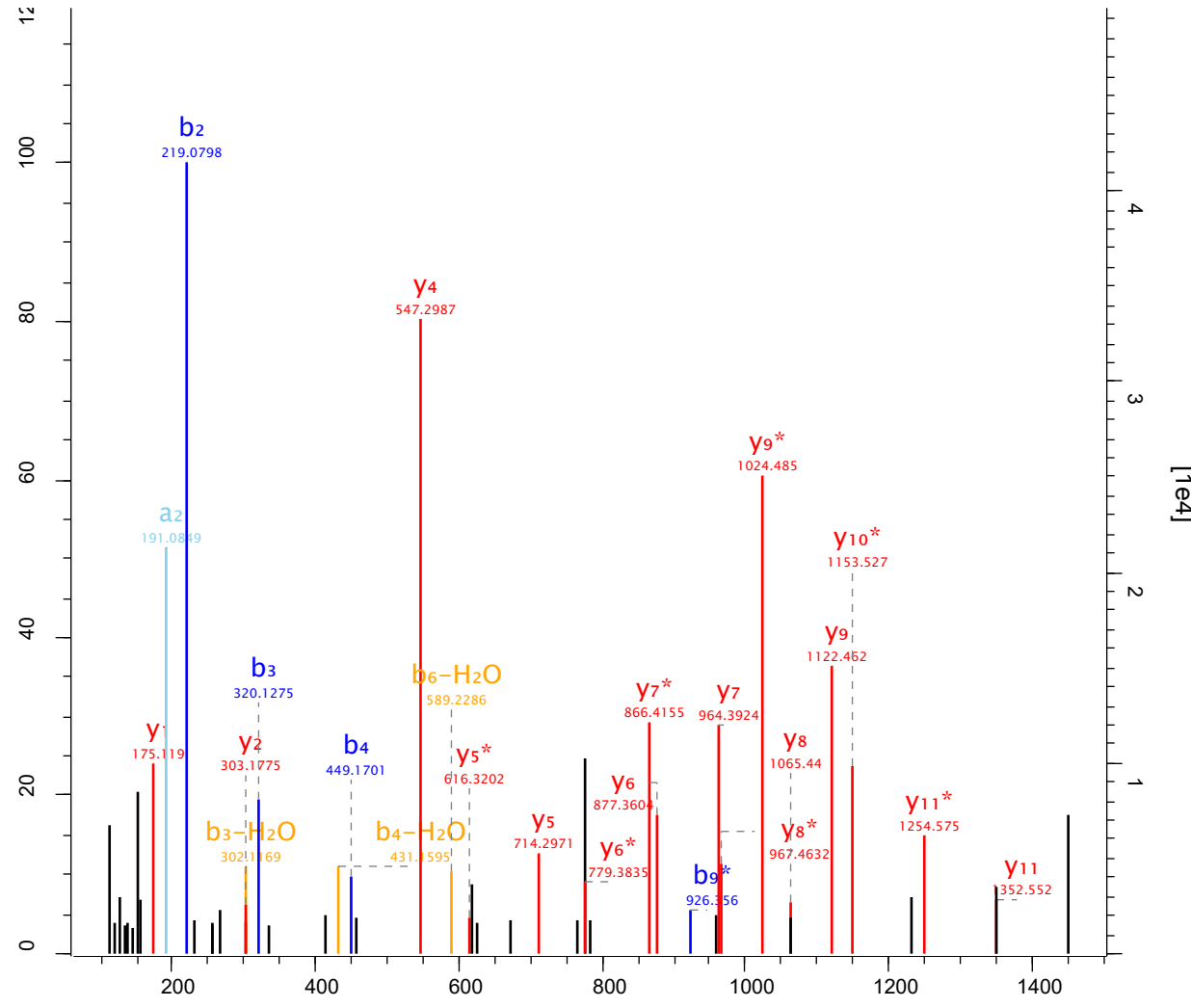
Raw file Scan Method Score m/z
 sys_15_3 9628 FTMS; HCD 160.63 548.28



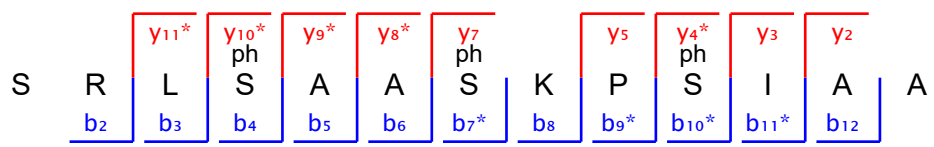
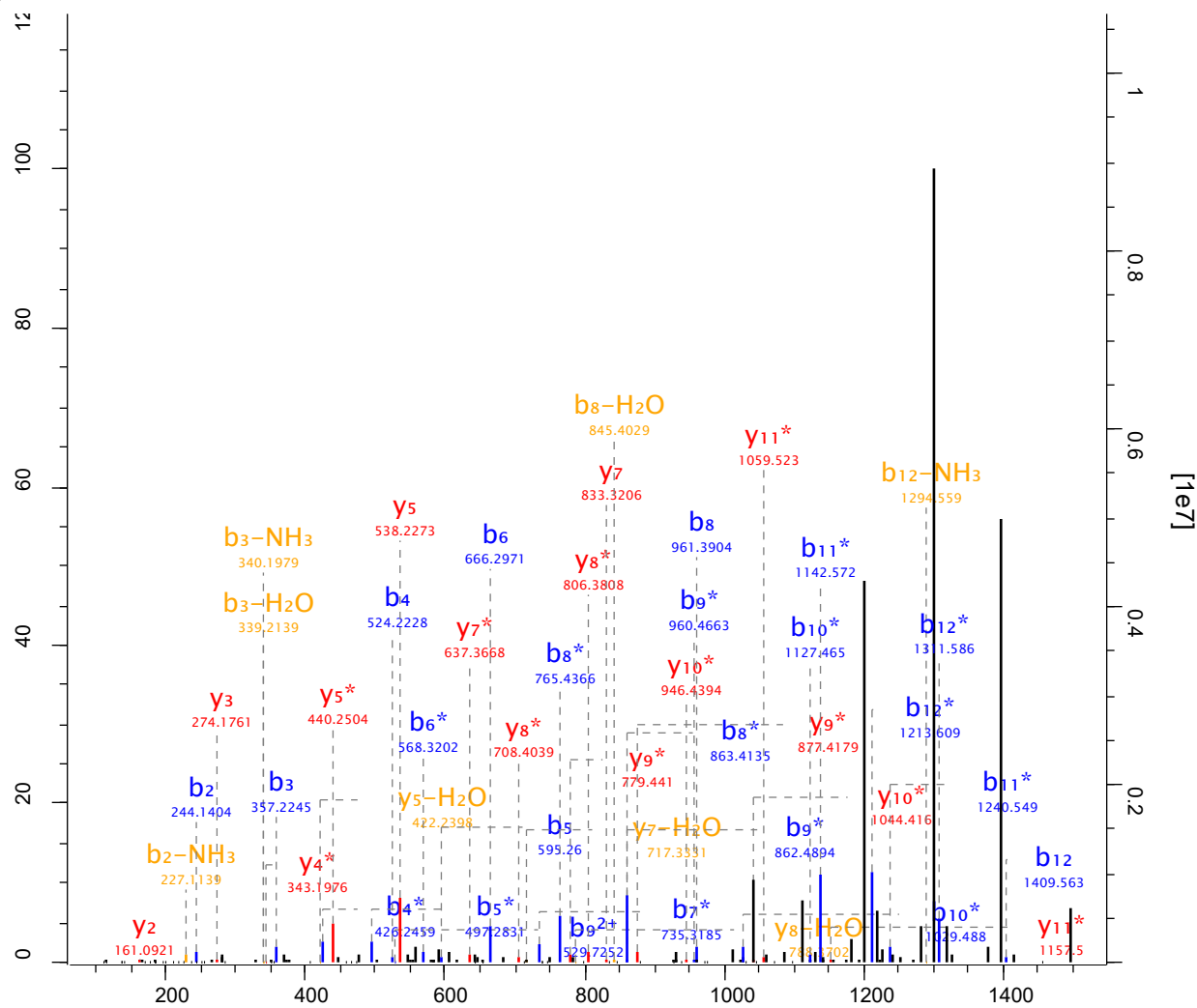
Raw file Scan Method Score m/z
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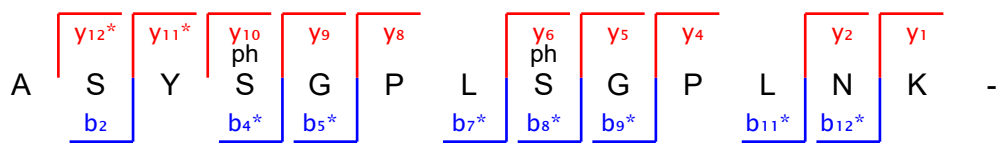
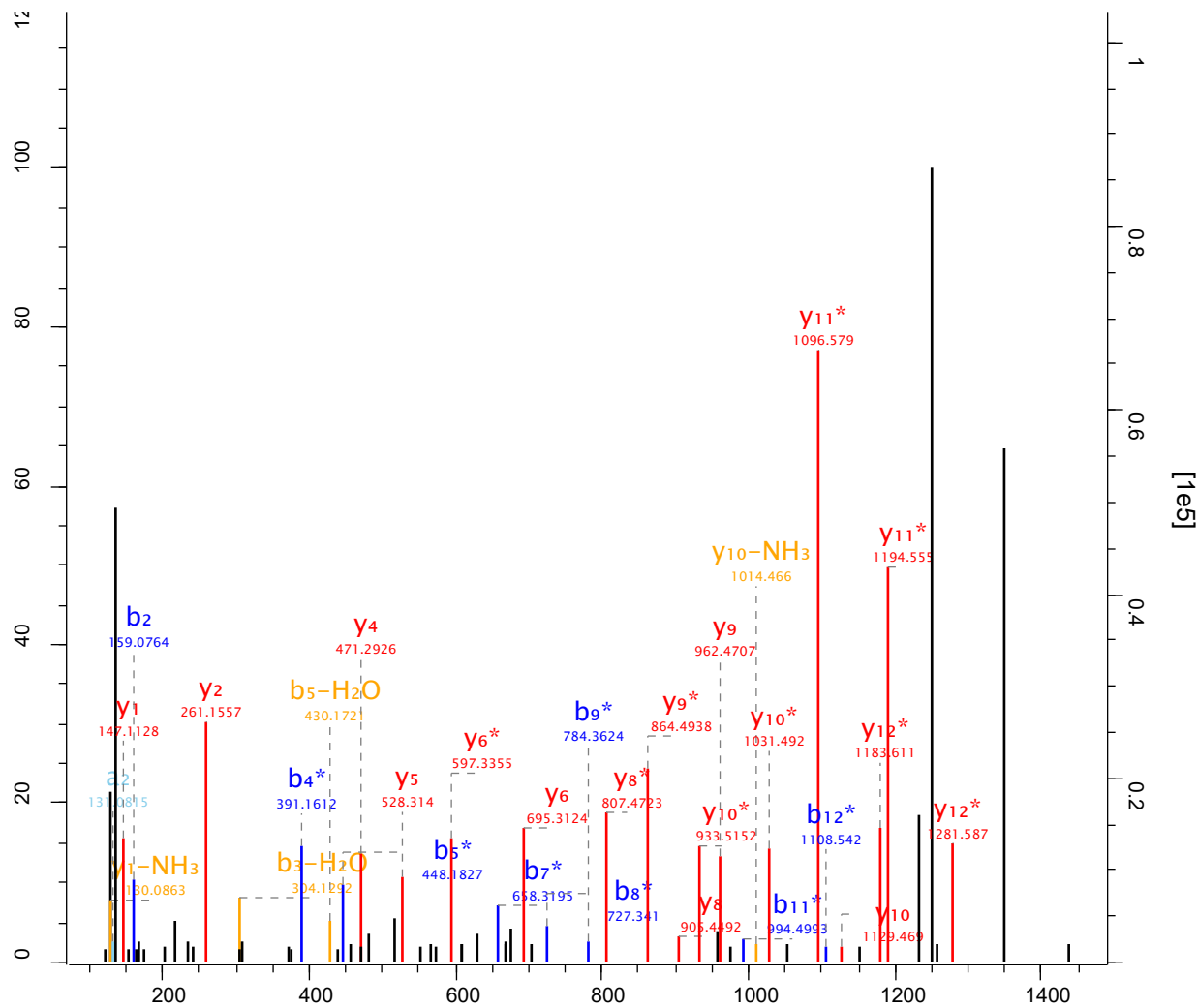
Raw file Scan Method Score m/z
 sys_30_1 14749 FTMS; HCD 120.63 785.82



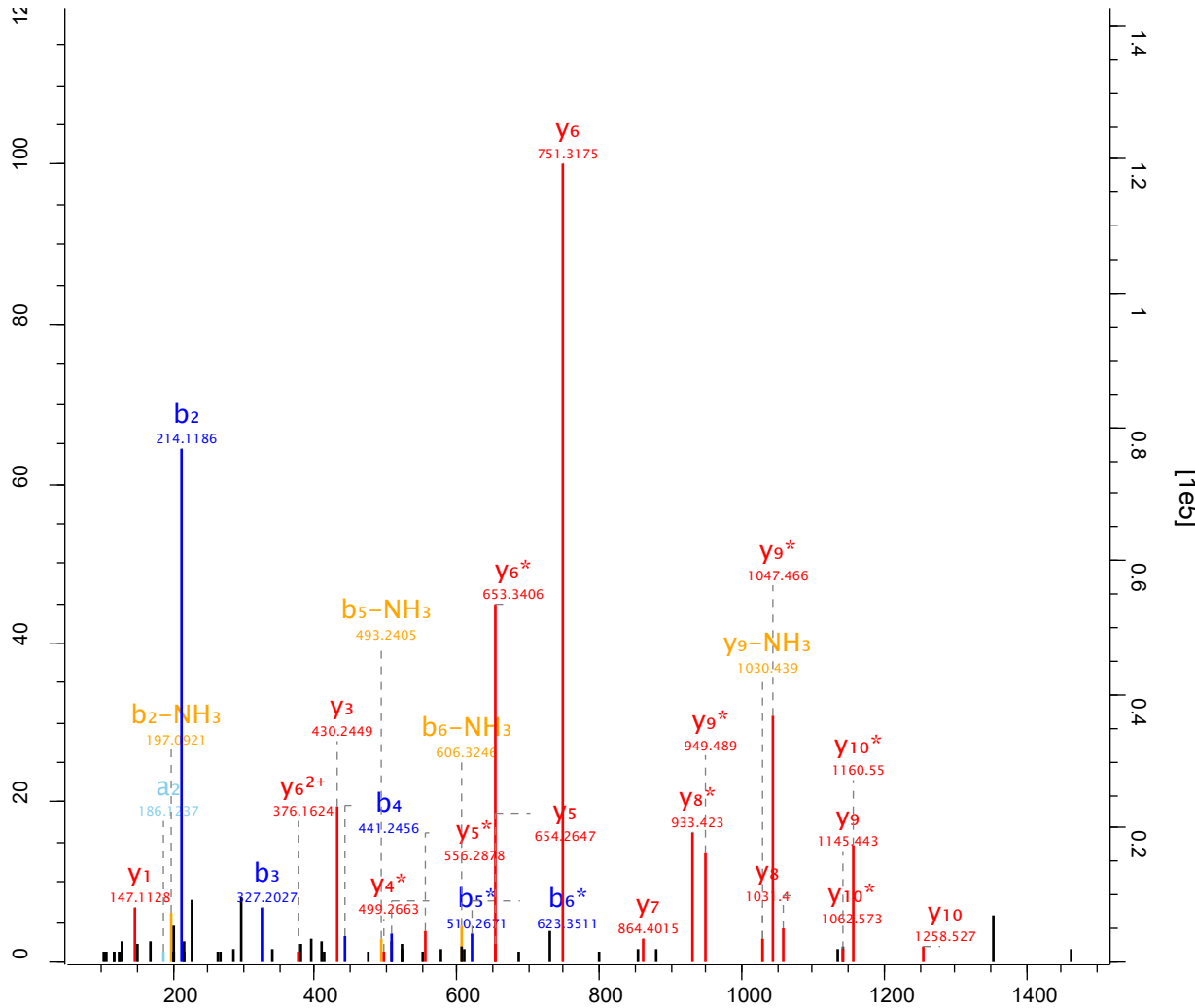
Raw file Scan Method Score m/z
 sys_30_1 16440 FTMS; HCD 139.5 749.81



Raw file Scan Method Score m/z
 sys_30_1 26002 FTMS; HCD 126.25 725.8



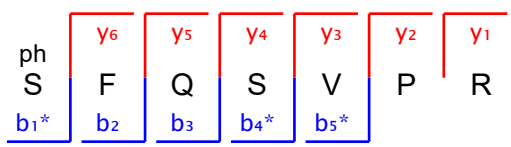
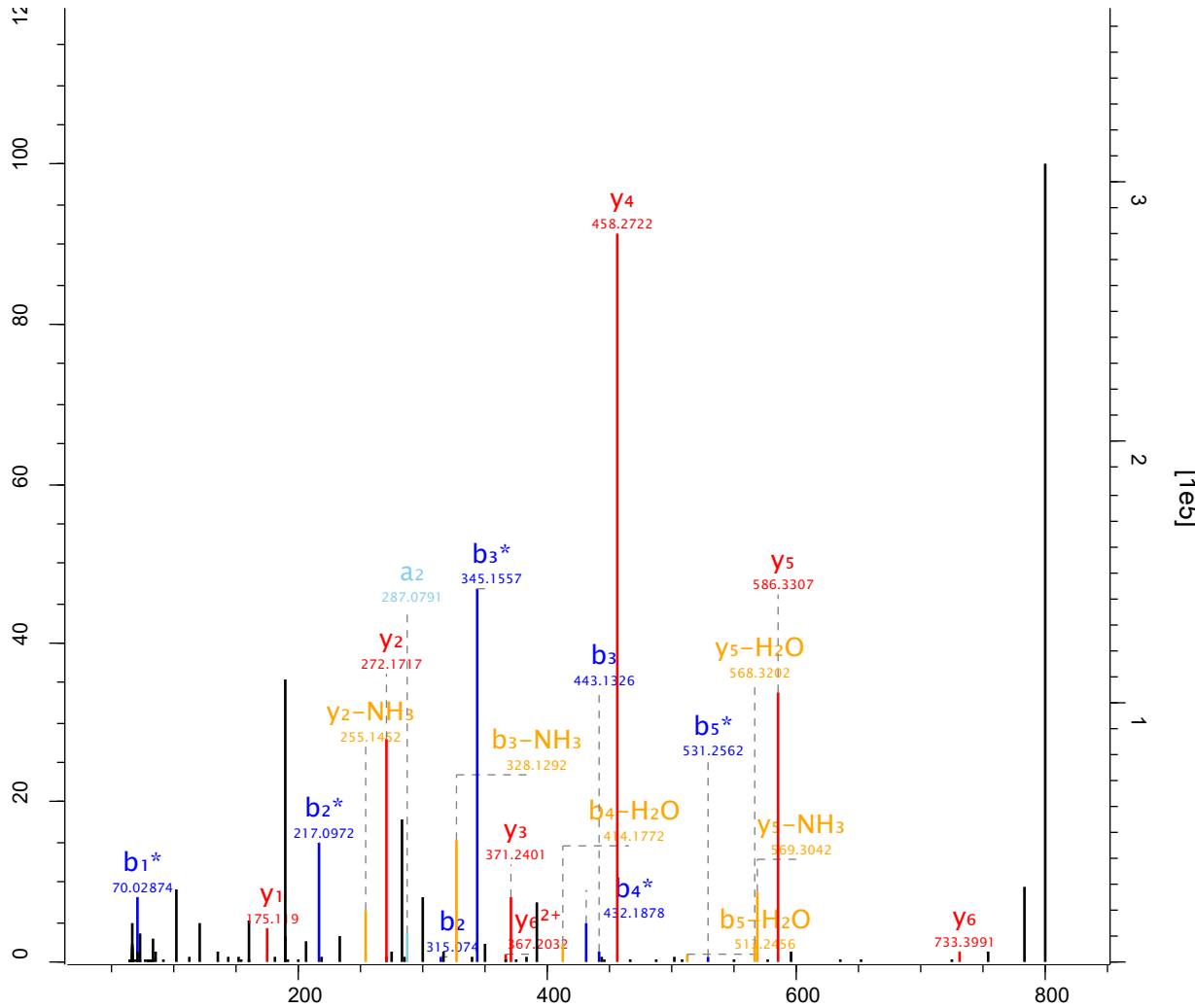
Raw file Scan Method Score m/z
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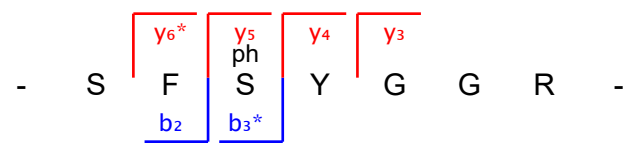
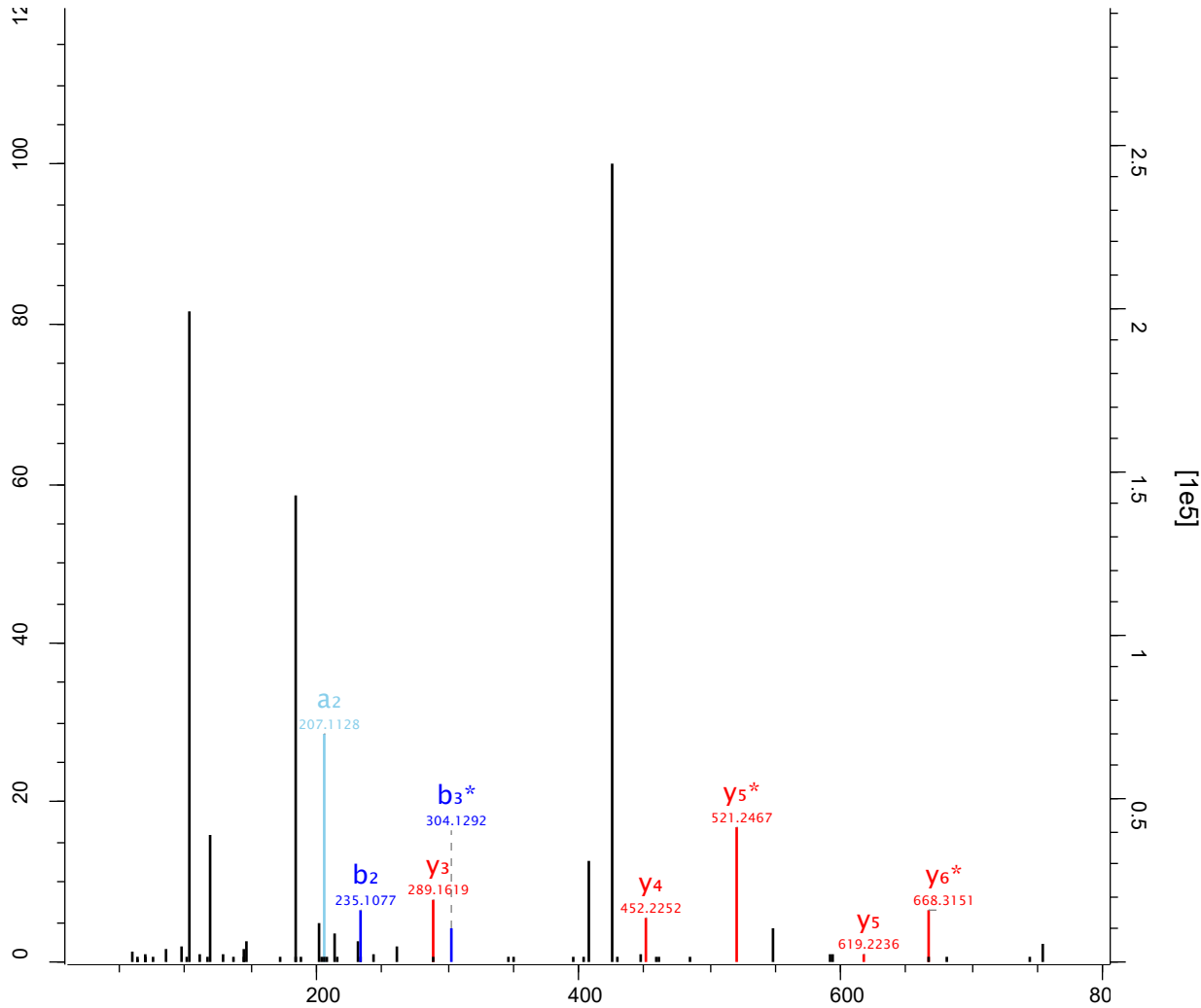
- V N L N S L P G S P W K -

b₂
b₃
b₄
b₅*
b₆*
y₁₀
y₉
y₈^{ph}
y₇
y₆
y₅
y₄^{ph}*
y₃
y₁

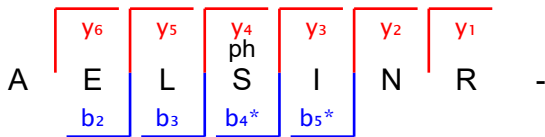
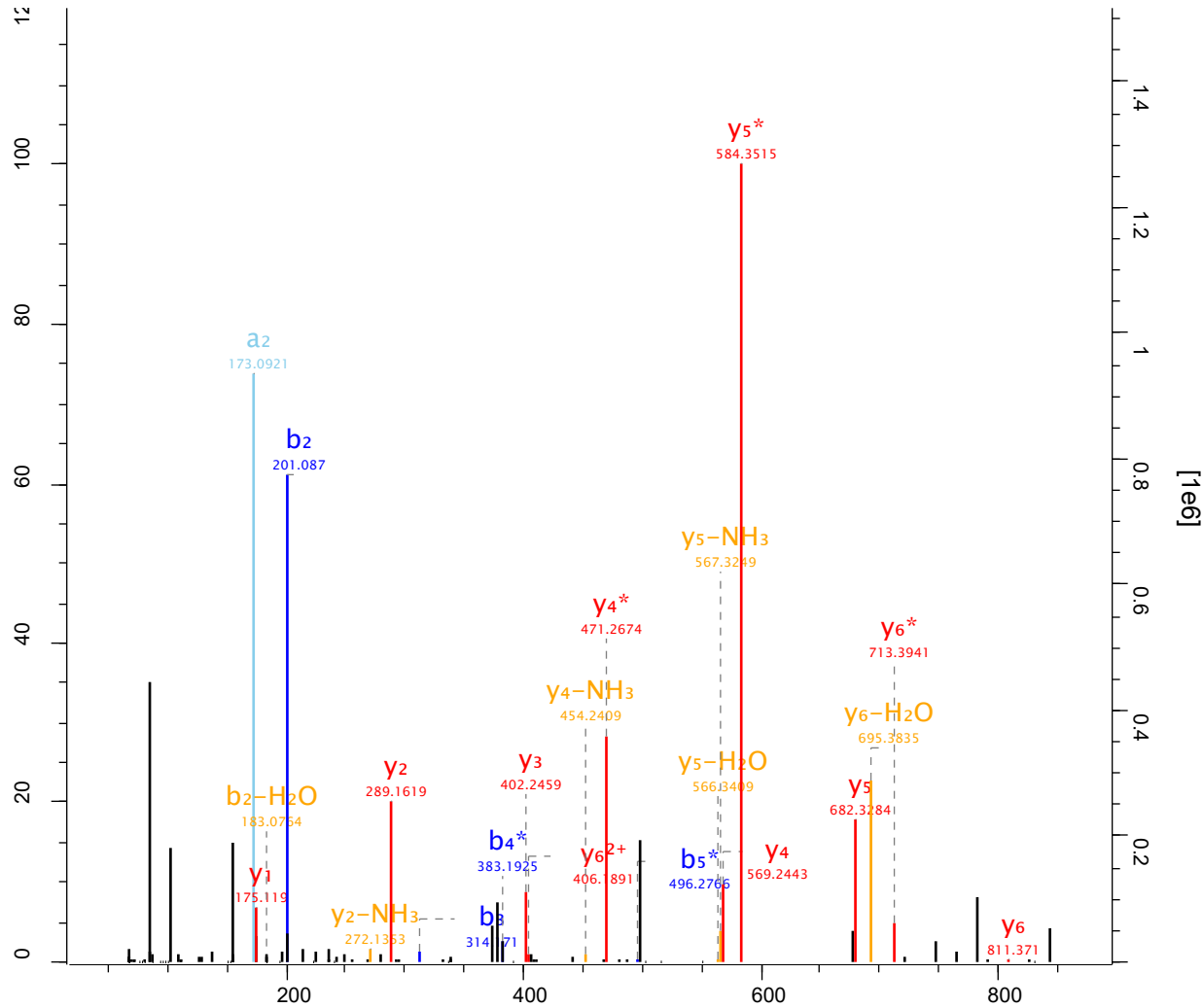
Raw file Scan Method Score m/z
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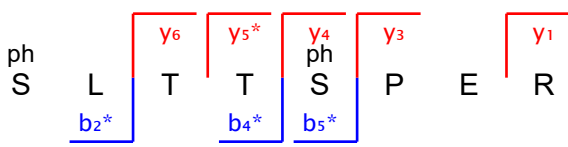
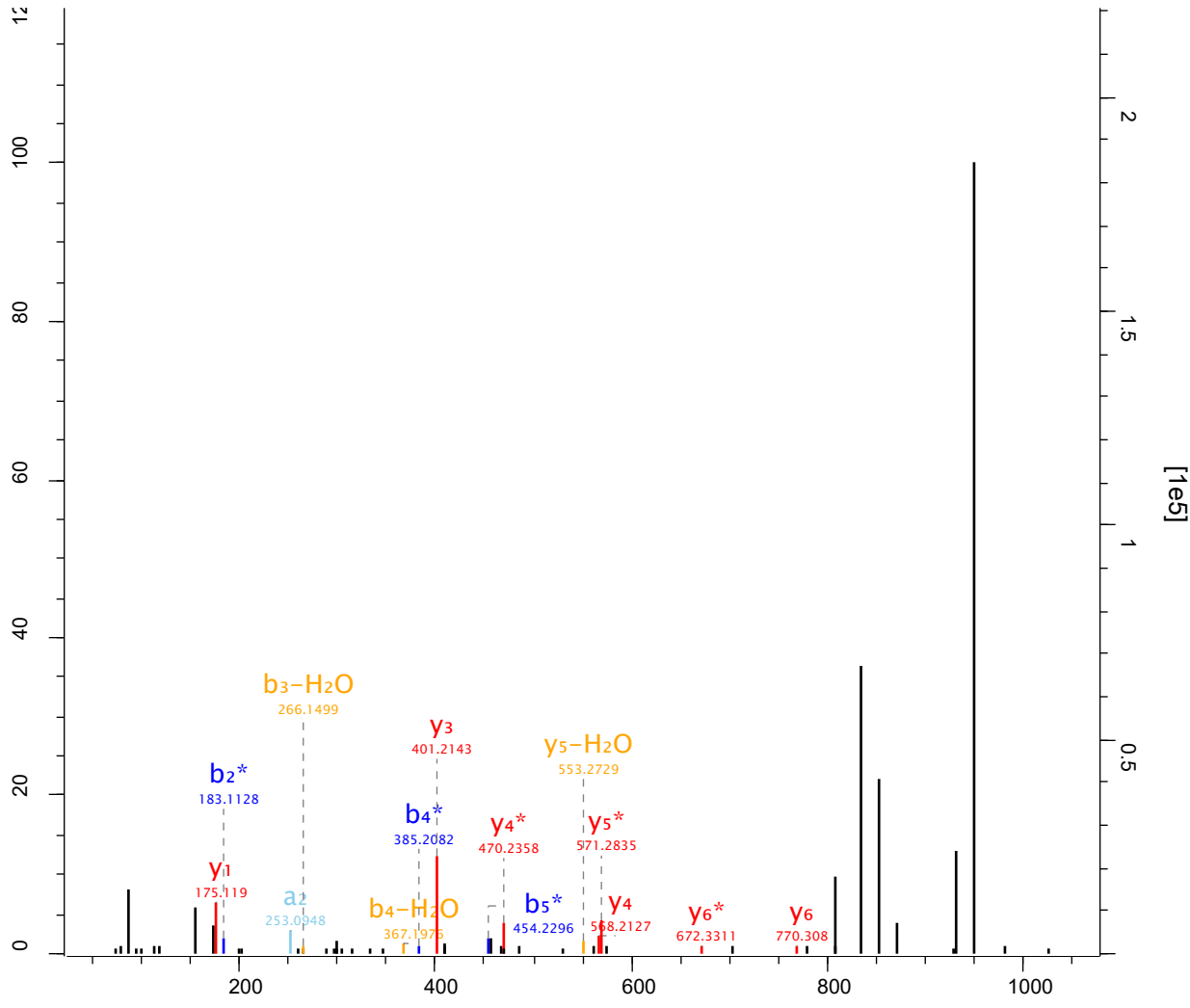
Raw file	Scan	Method	Score	m/z
sys_30_1	8449	FTMS; HCD	47.6	427.22



Raw file	Scan	Method	Score	m/z
sys_30_1	8770	FTMS; HCD	153.24	441.71



Raw file	Scan	Method	Score	m/z
sys_30_1	8861	FTMS; HCD	75.82	525.7



Raw file Scan Method Score m/z
 sys_30_1 9198 FTMS; HCD 153.54 534.74

