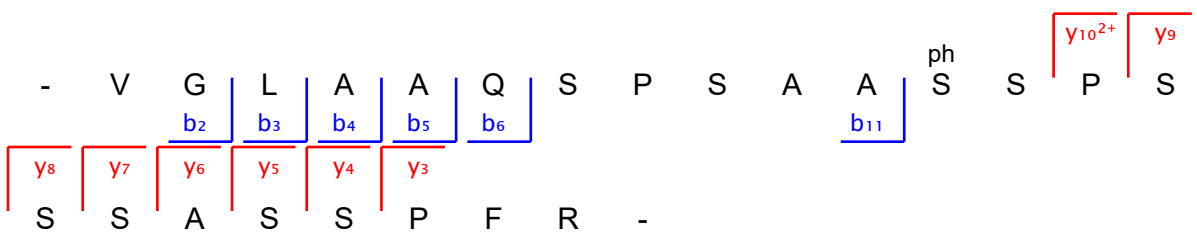
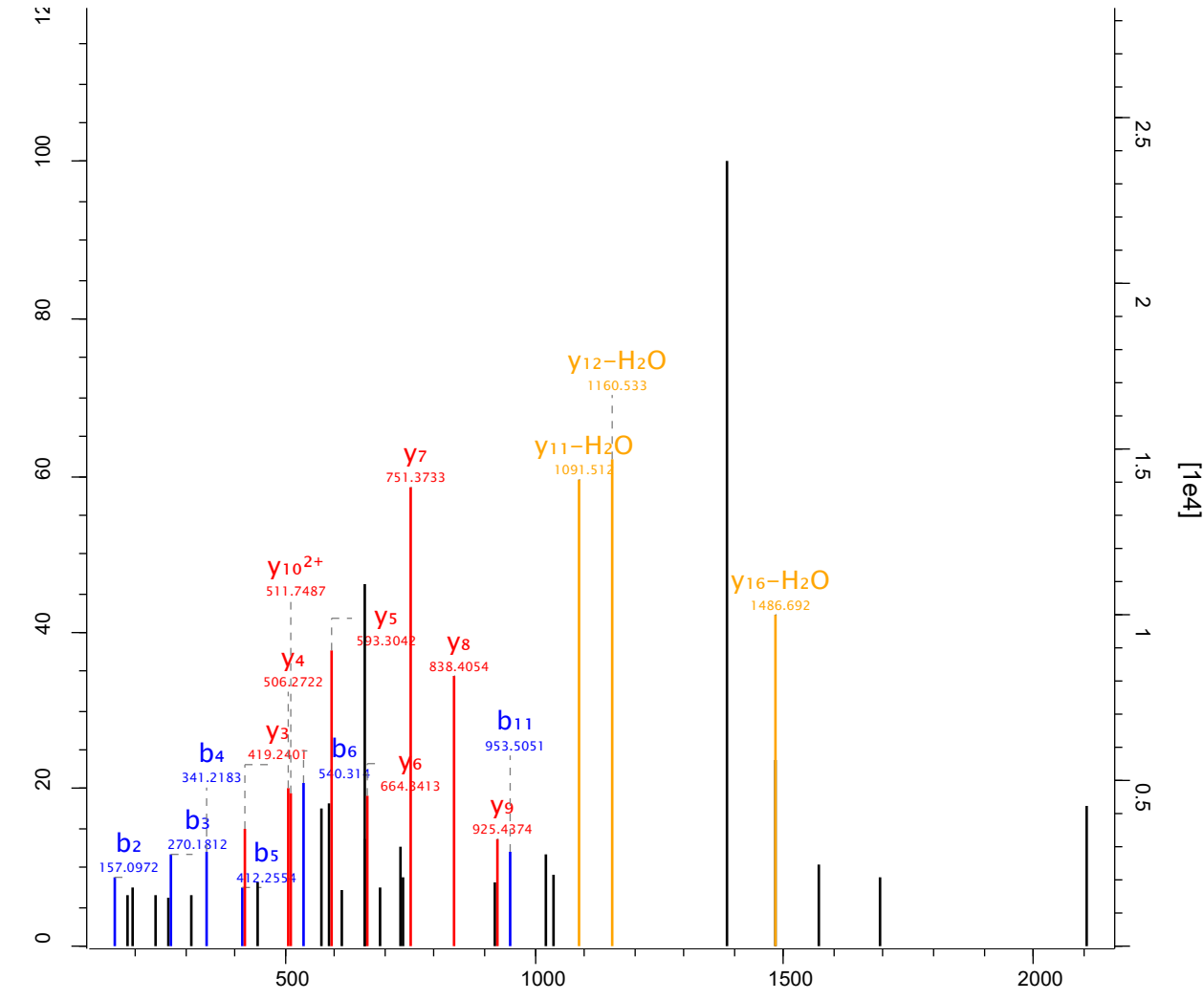
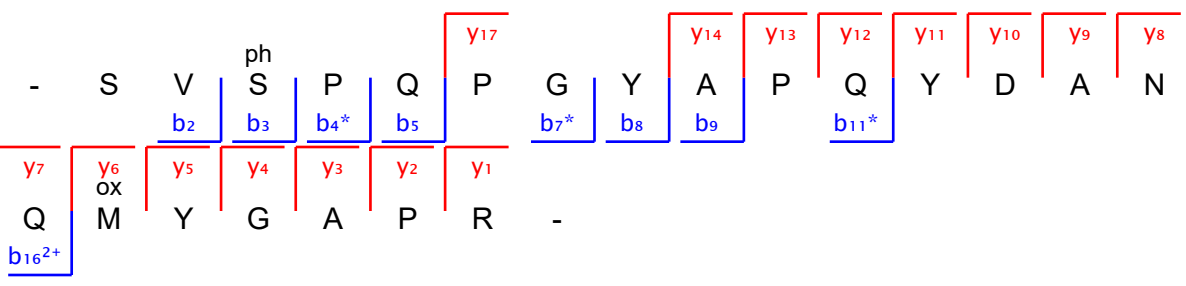
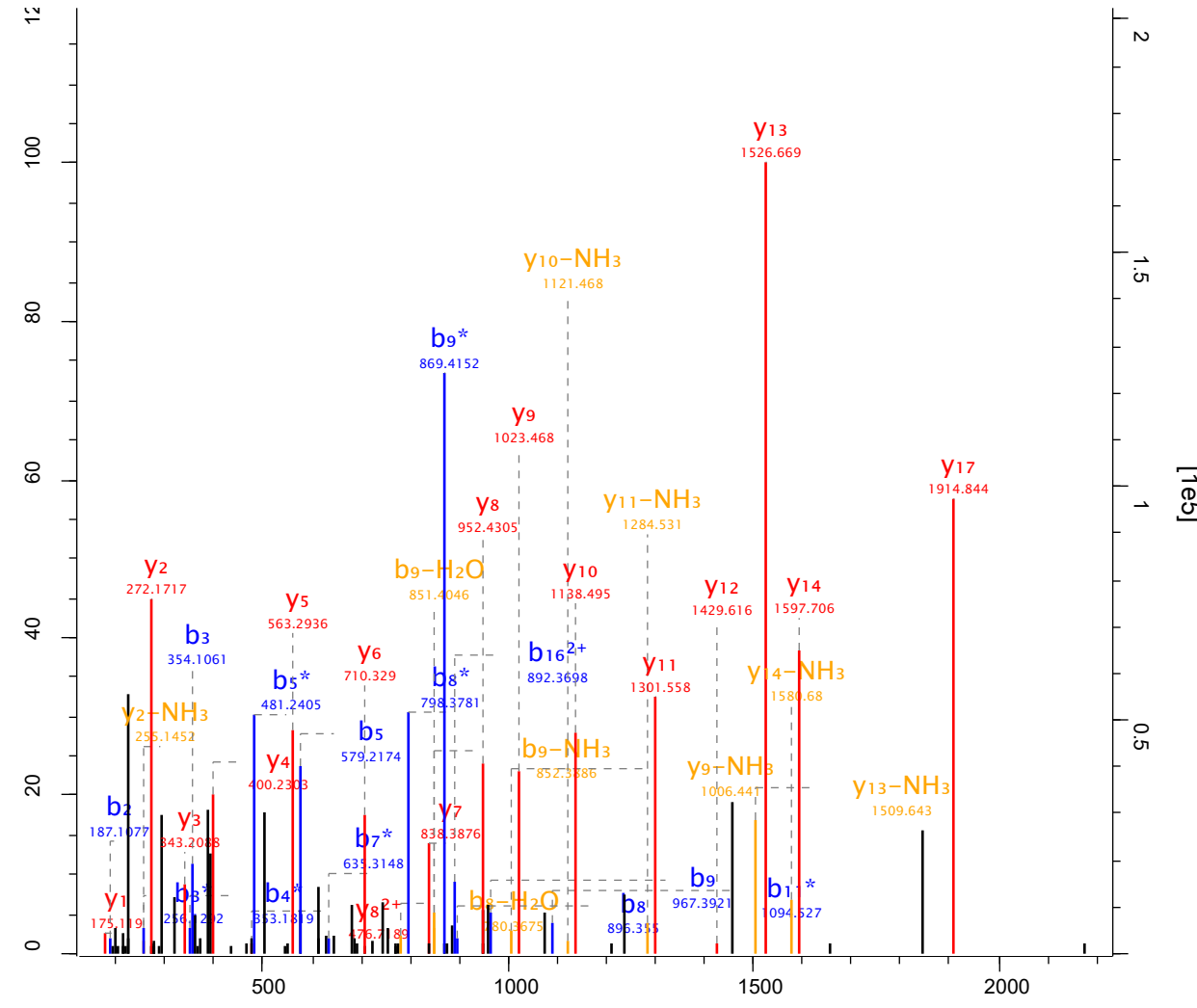


Supplementary Figure 2: Representative annotated spectra of identified phosphopeptides under systemin,A17 and water treatment as exported from MaxQuant.

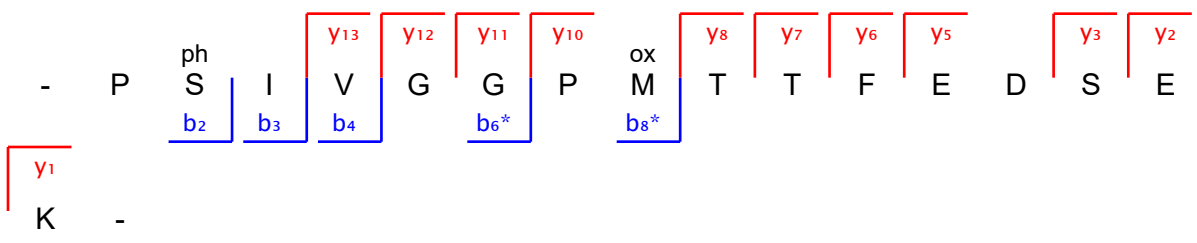
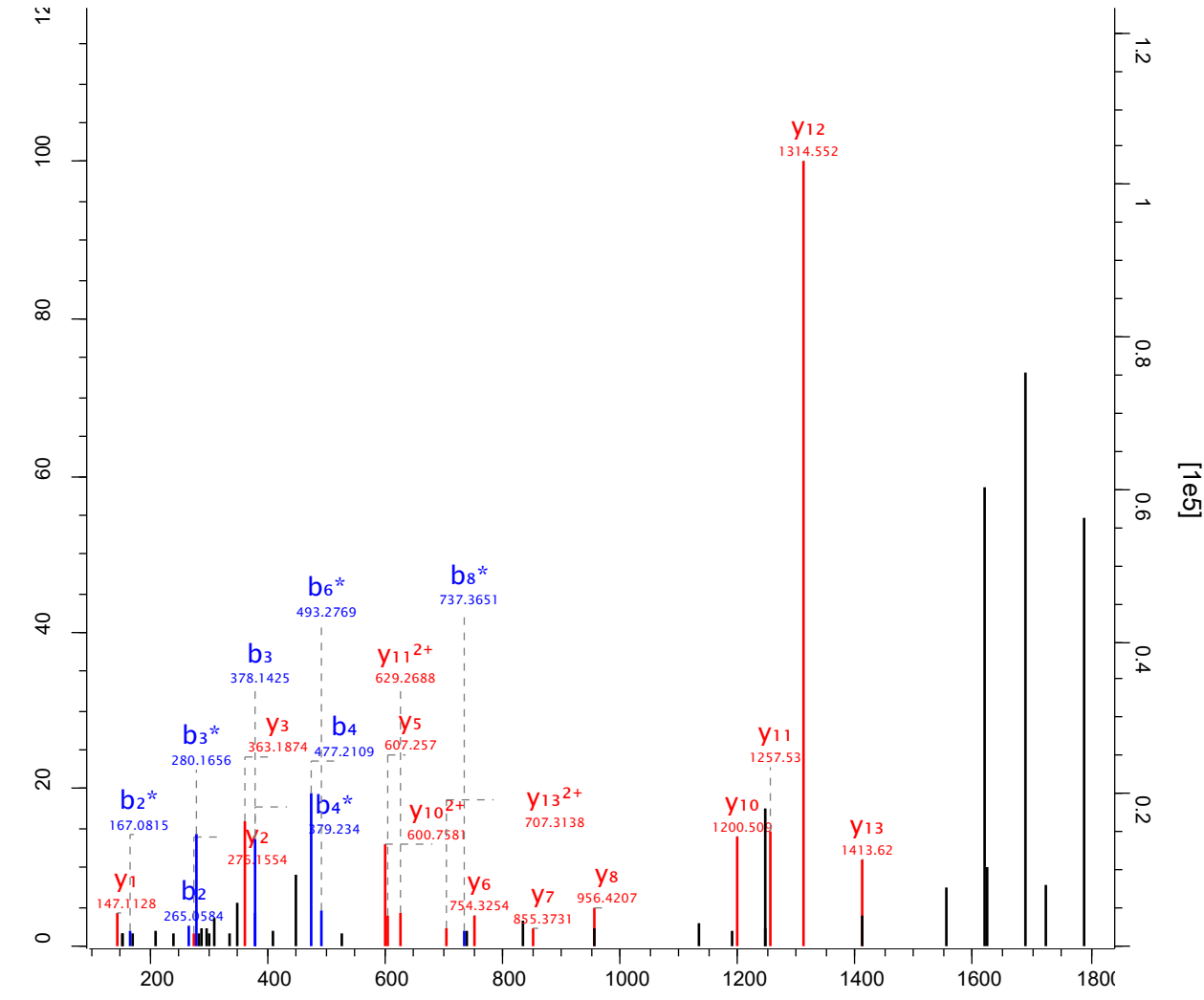
Raw file Scan Method Score m/z
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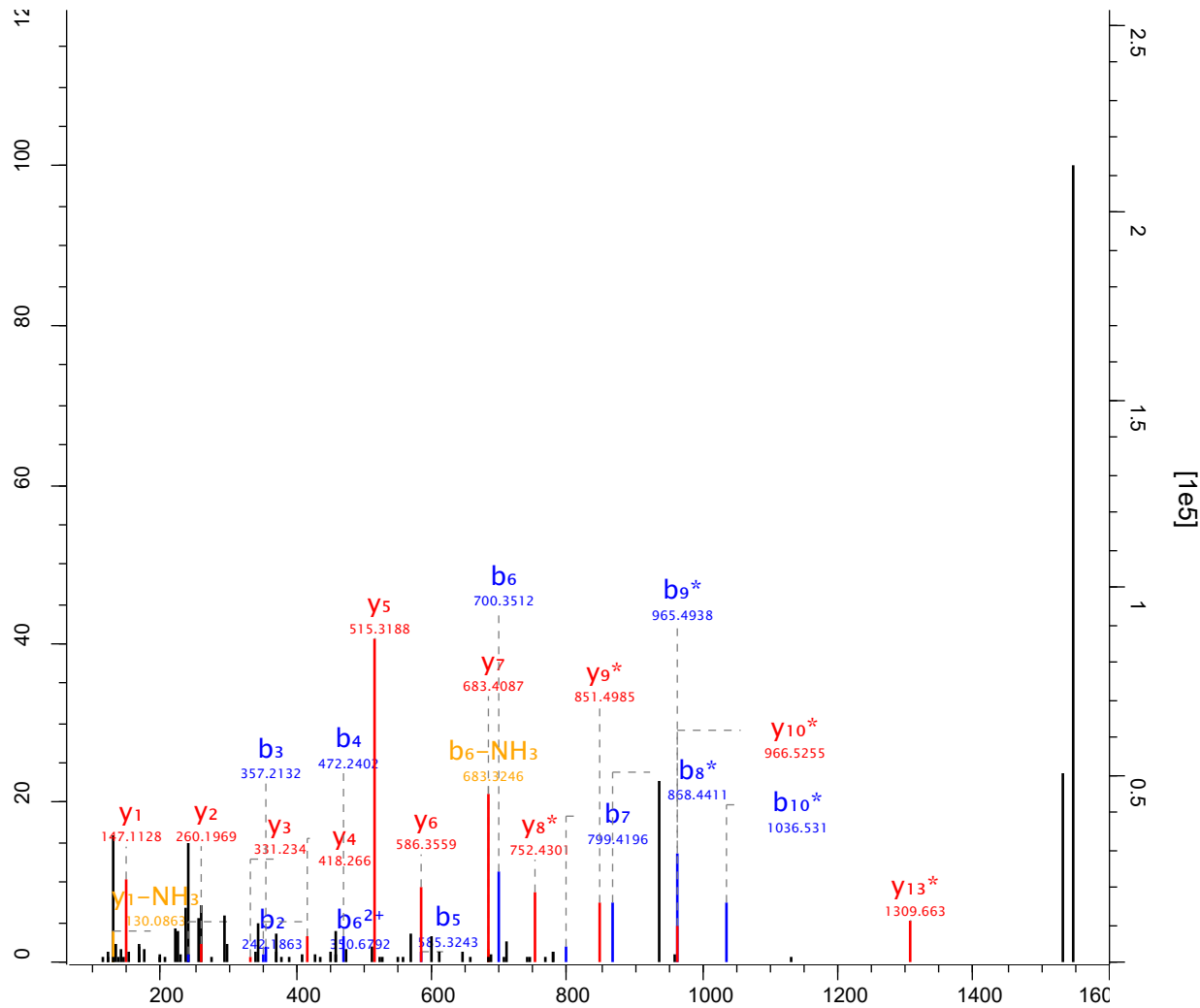
Raw file Scan Method Score m/z
 sys_15_1 24740 FTMS; HCD 116.08 832.02



Raw file Scan Method Score m/z
 sys_15_1 24741 FTMS; HCD 99.09 895.88



Raw file Scan Method Score m/z
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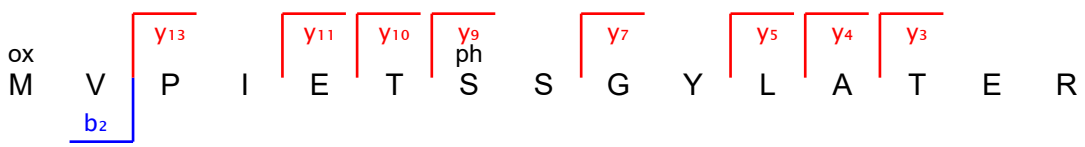
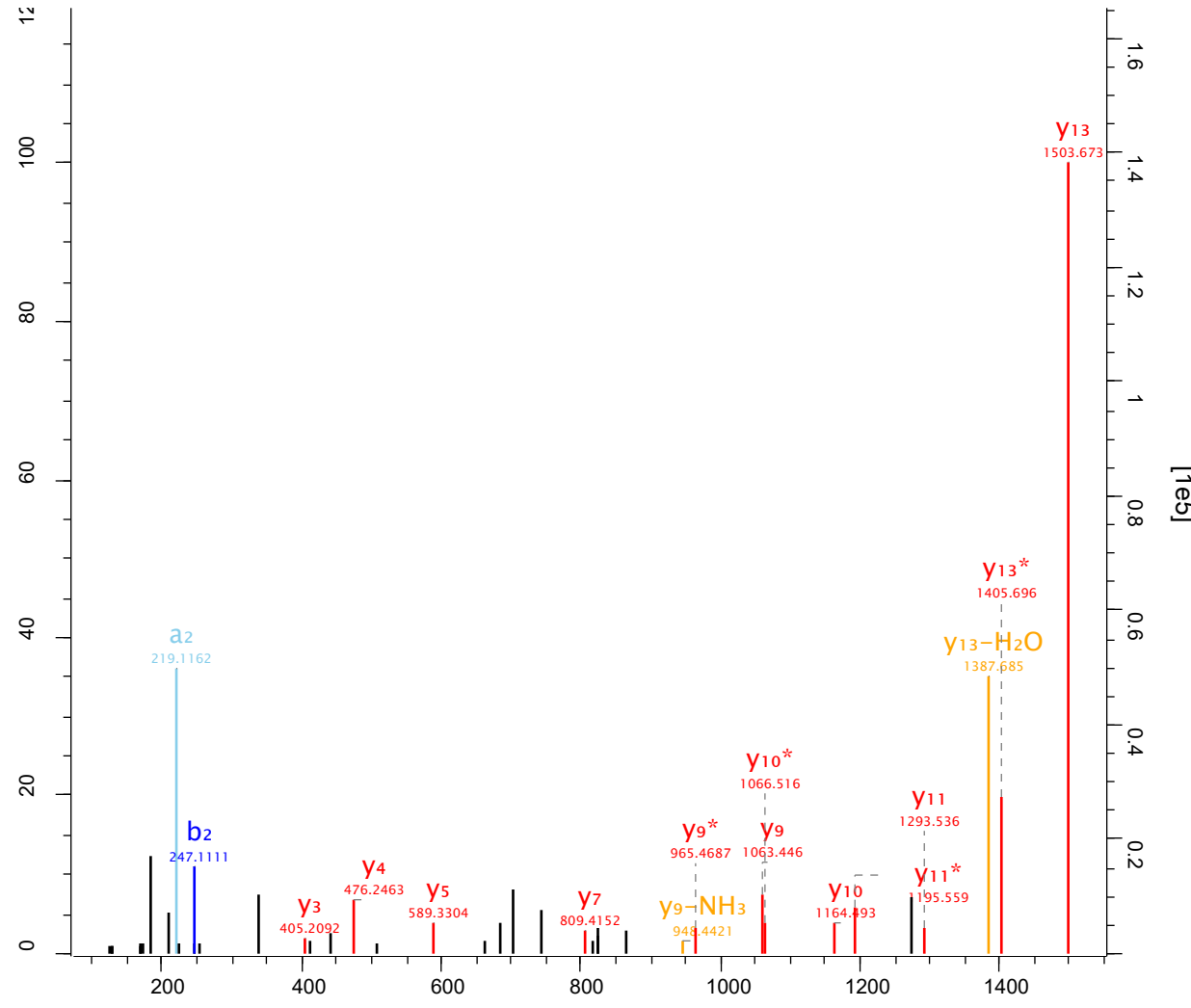


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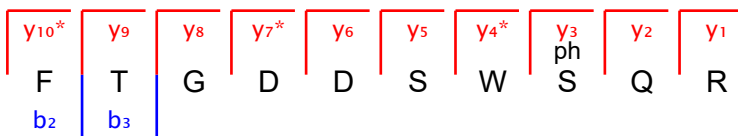
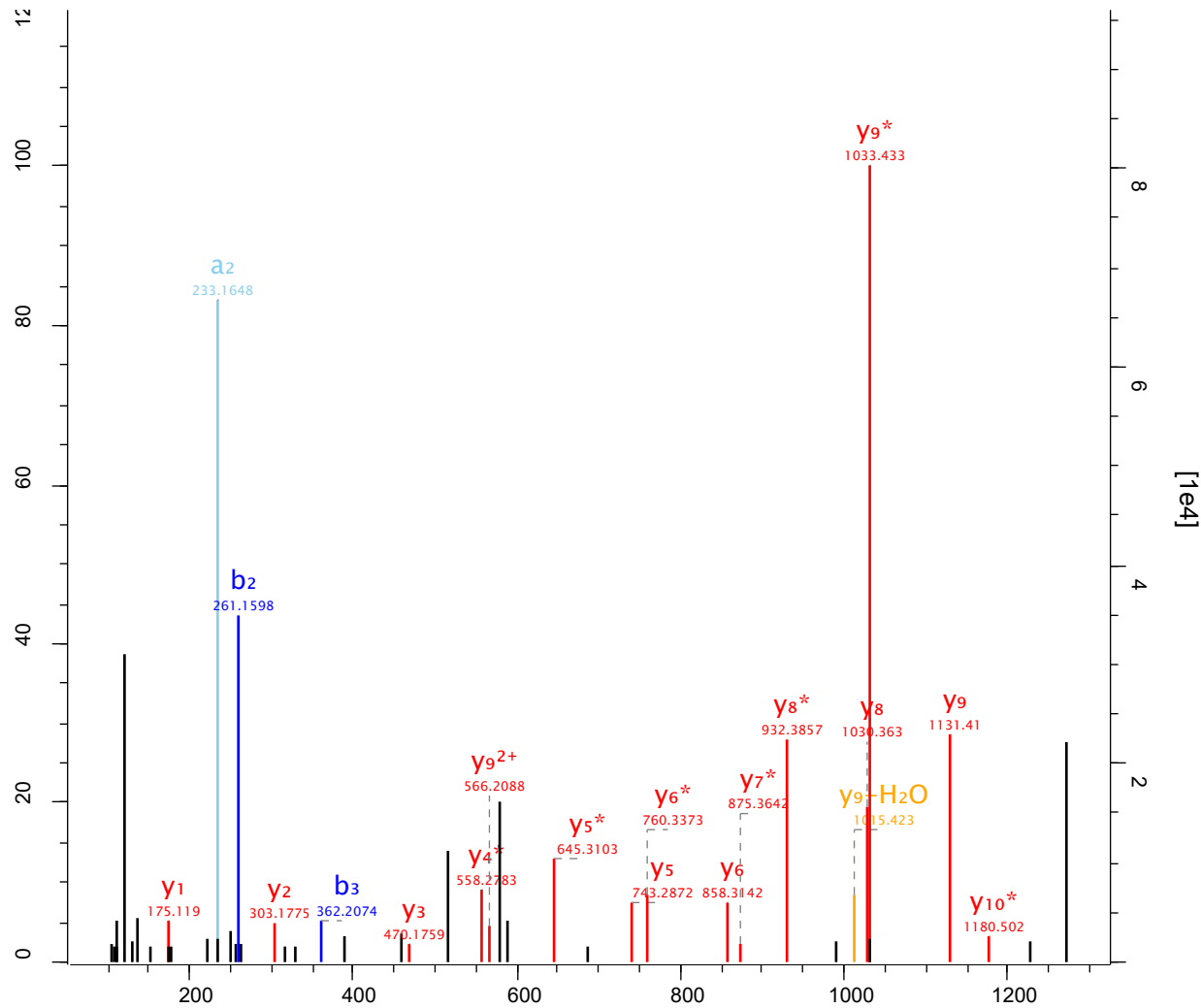
b₂
b₃
b₄
b₅
b₆
b₇
b₈*
b₉*
b₁₀*

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

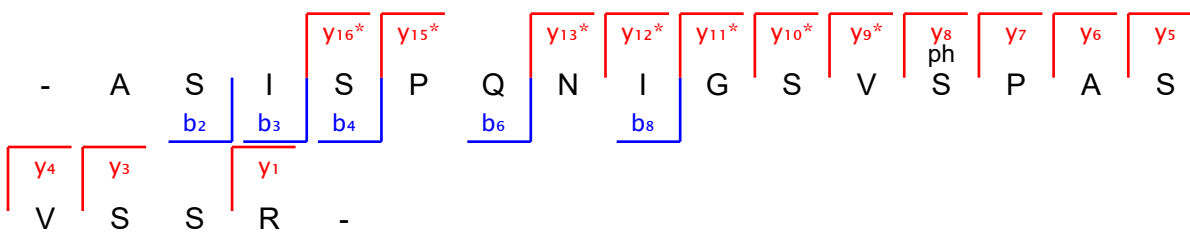
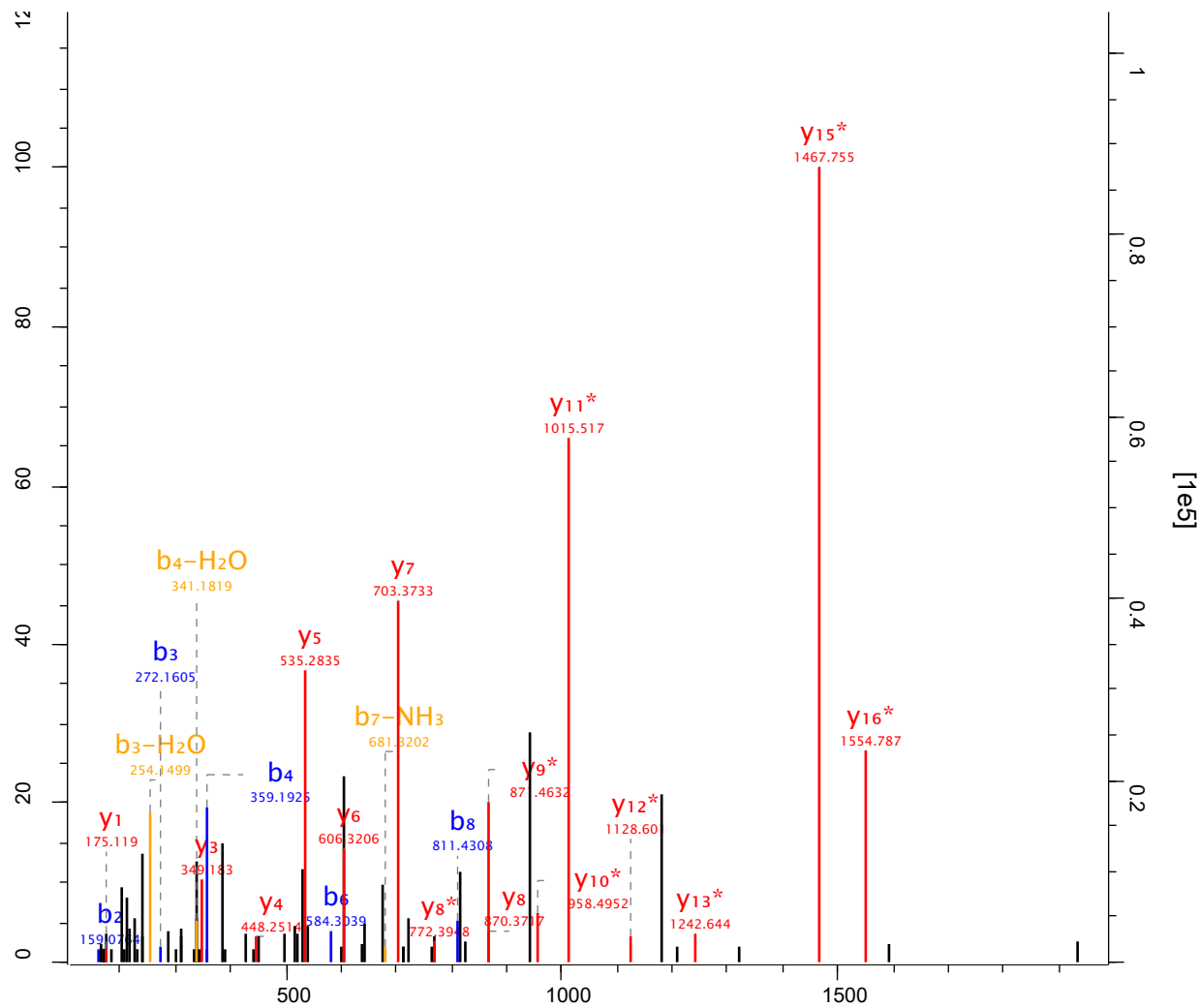
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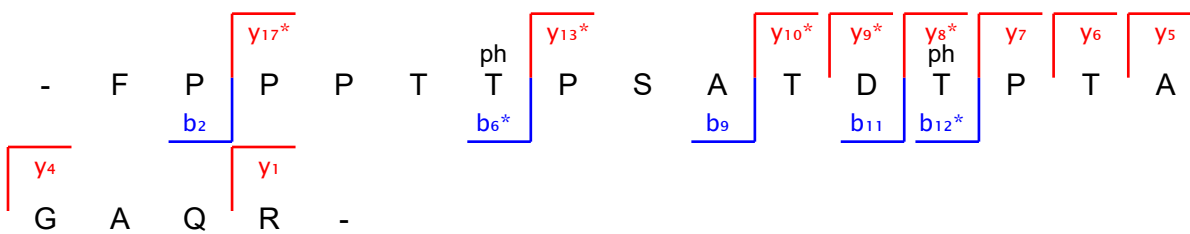
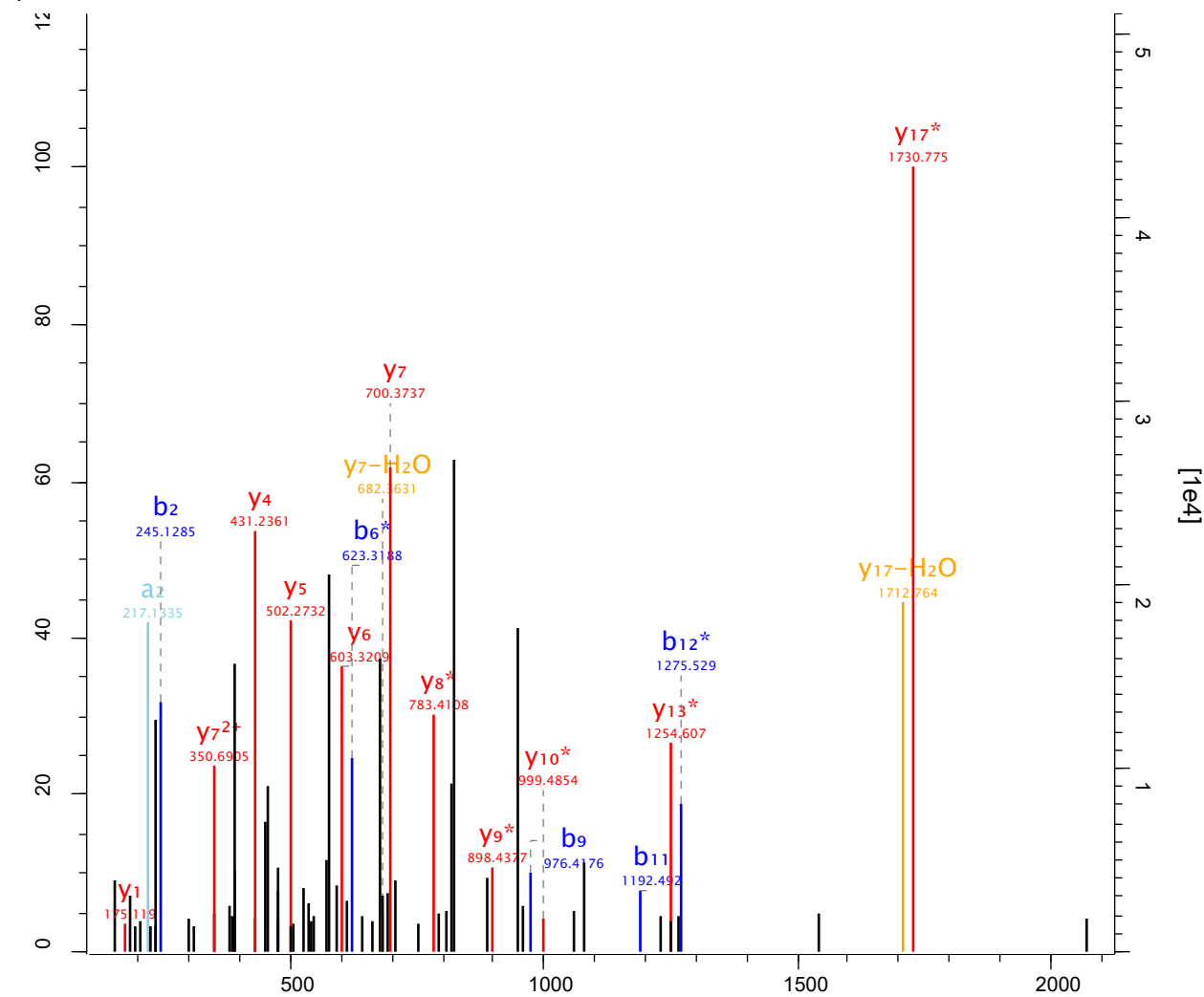
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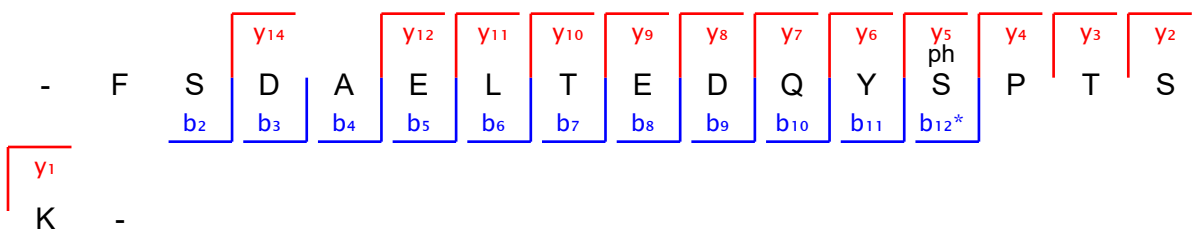
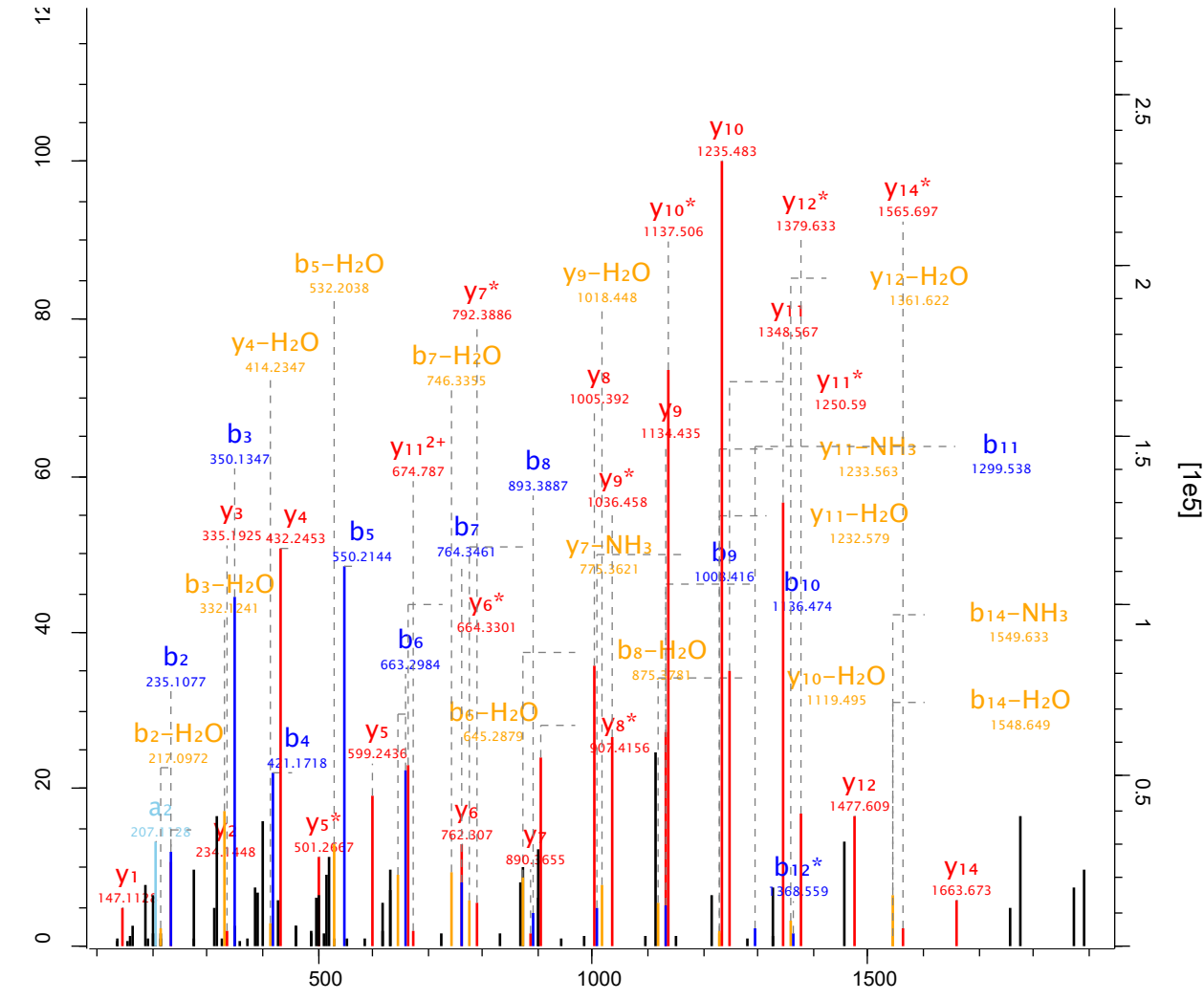
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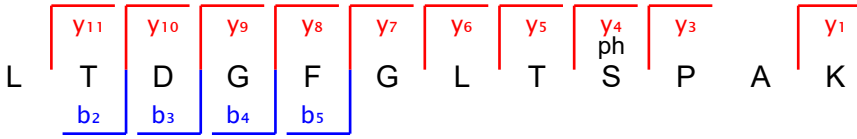
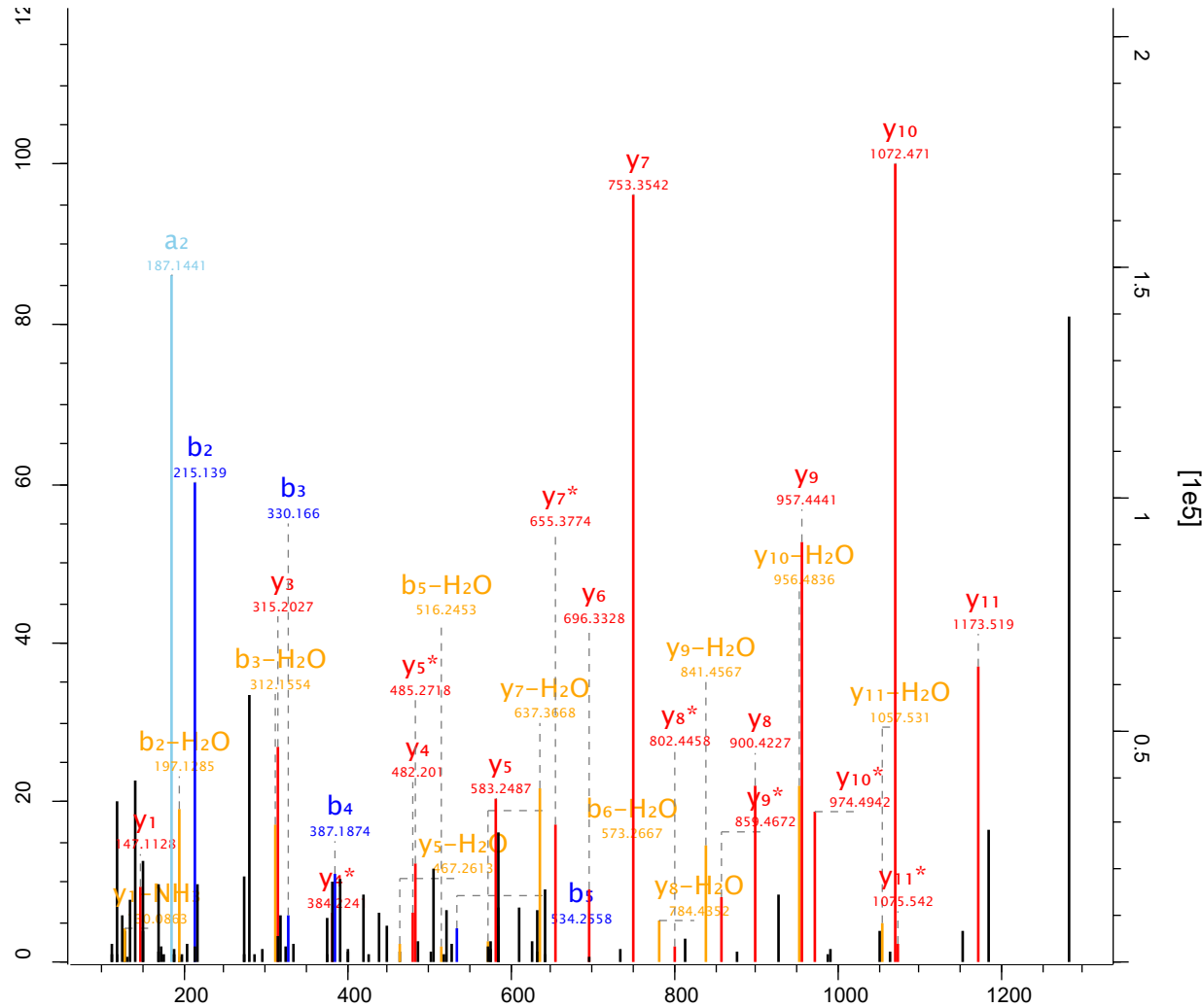
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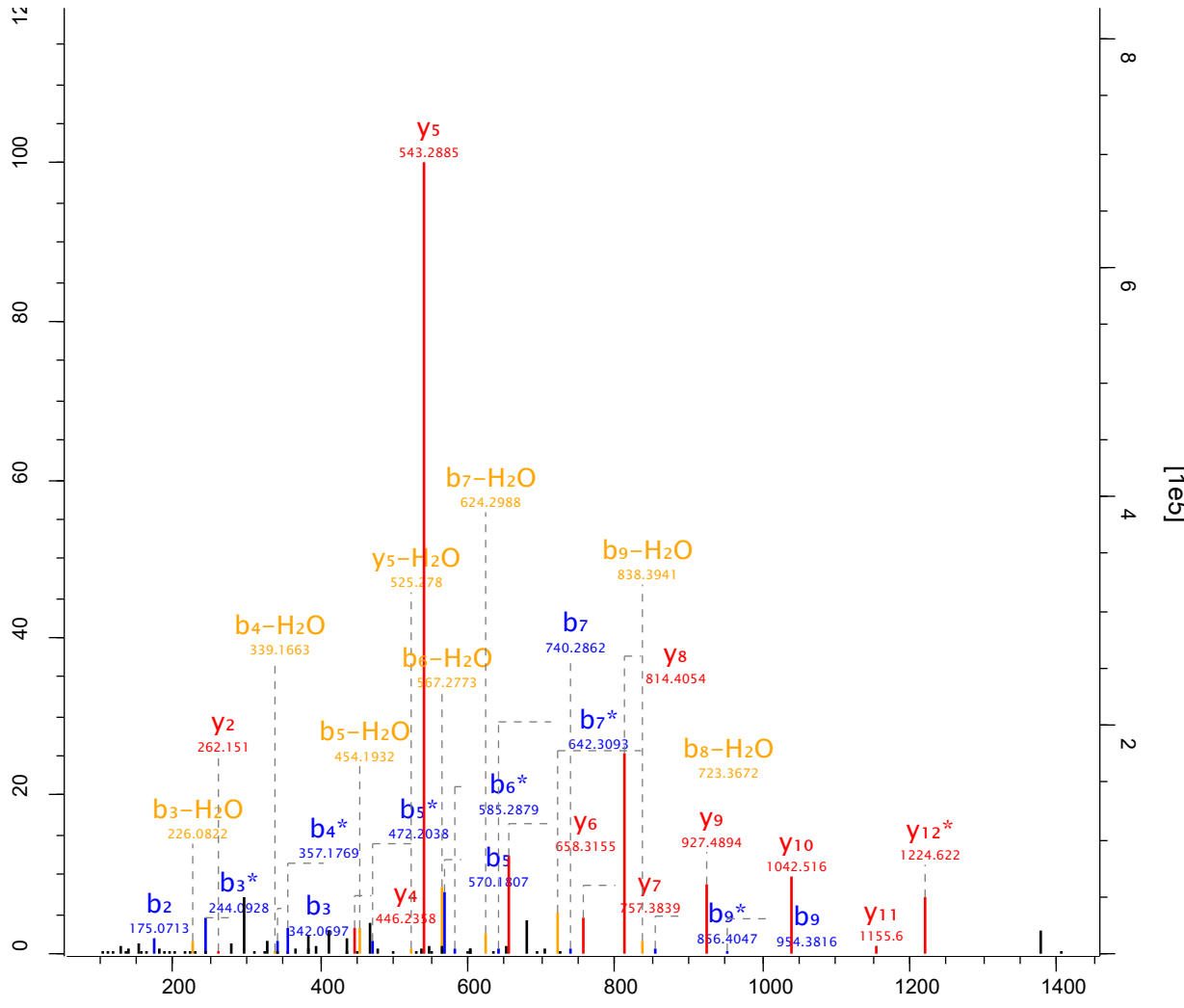
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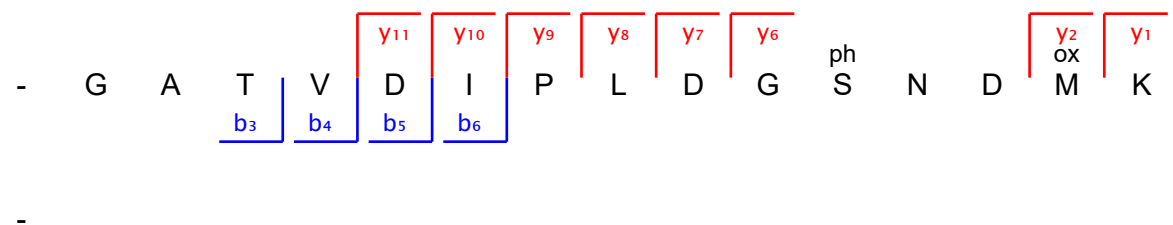
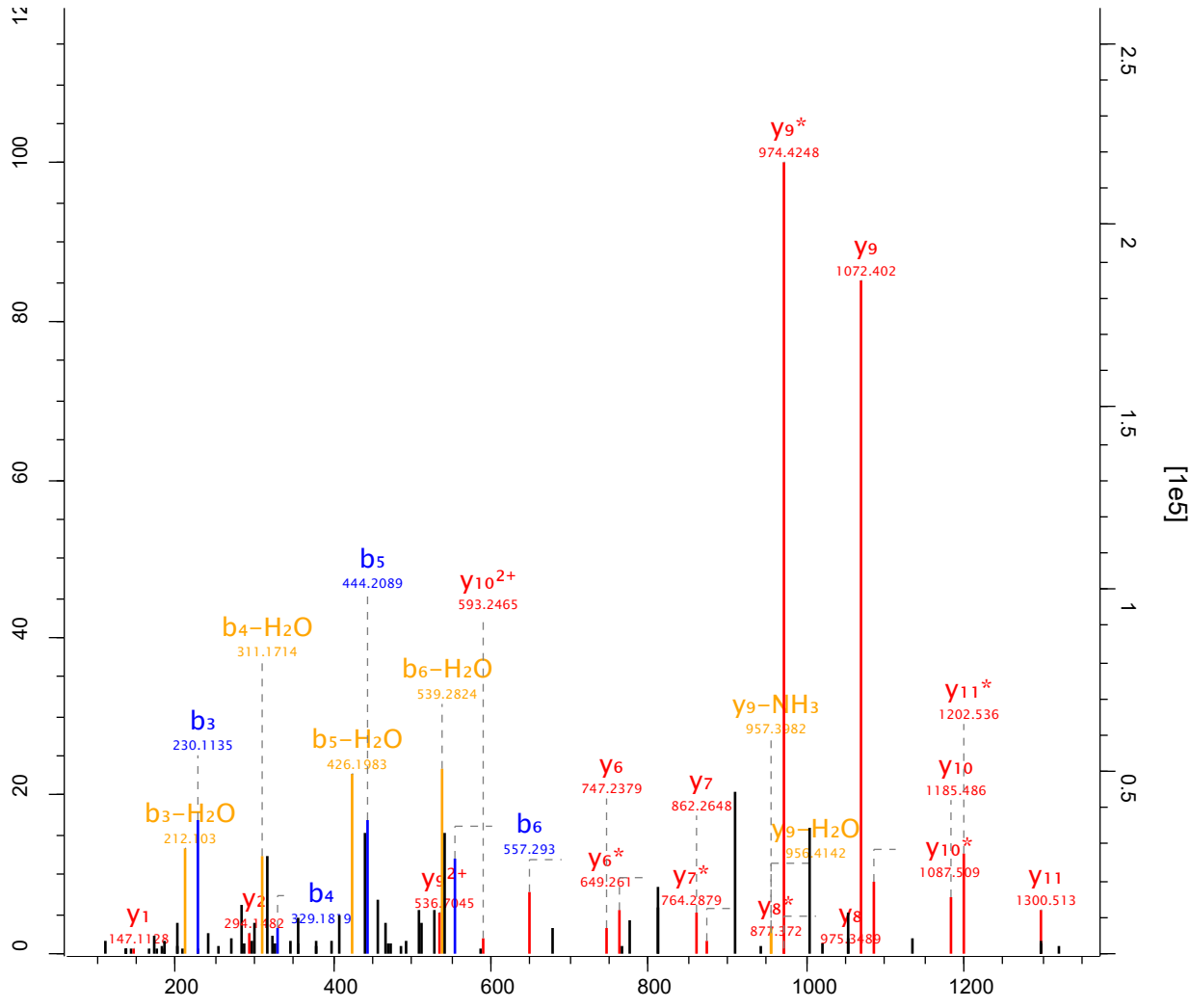
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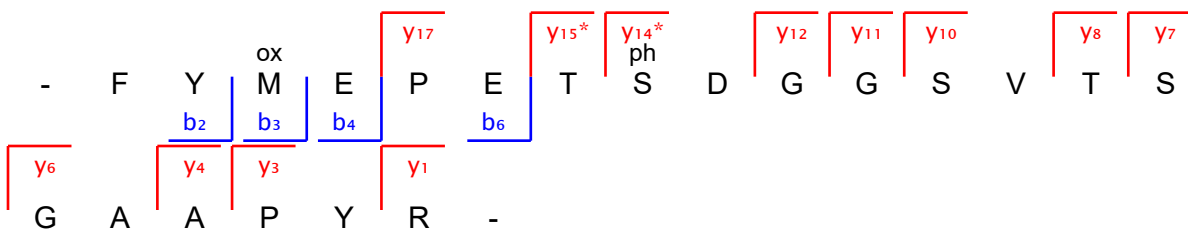
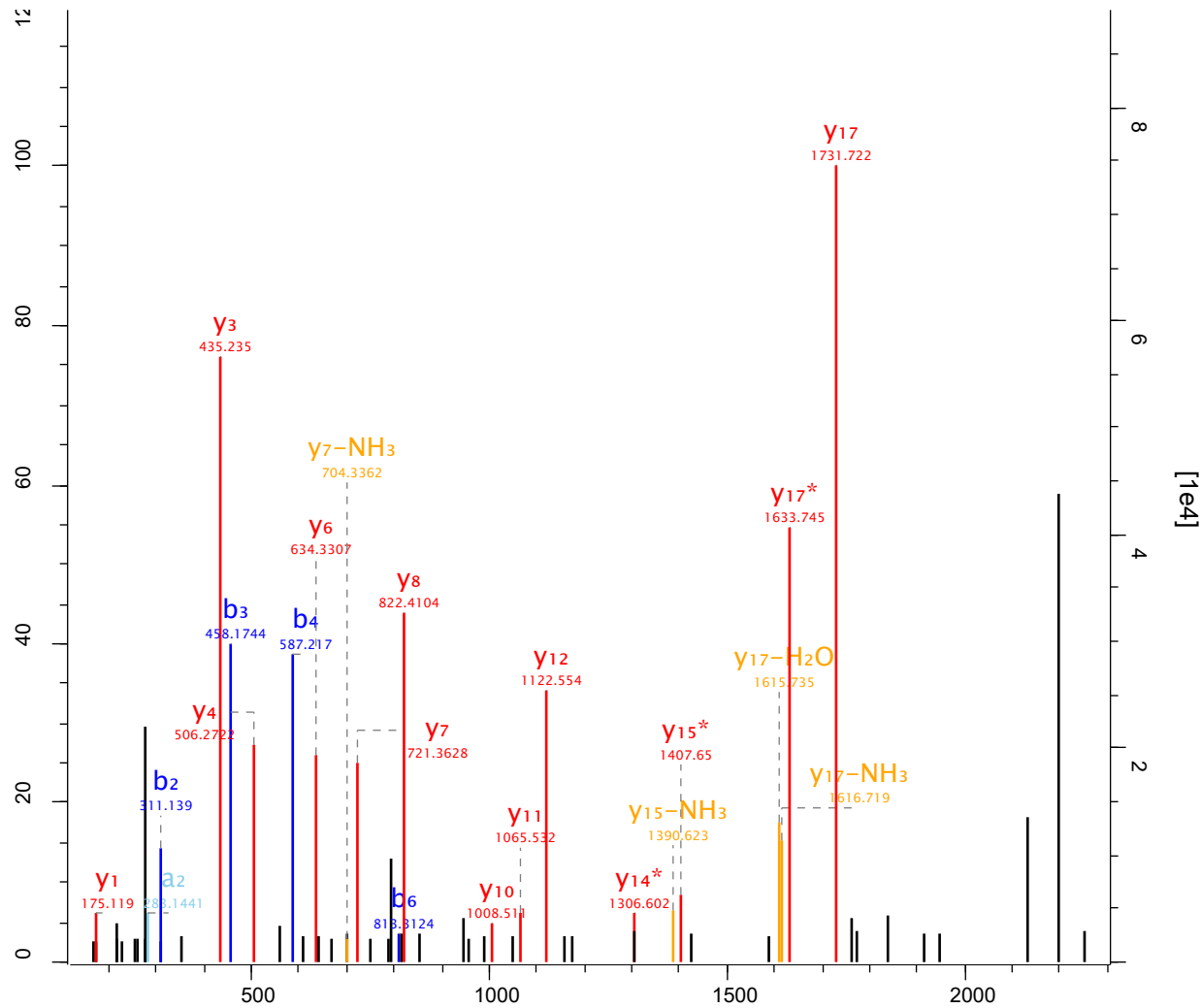
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b₂
b₃
b₄^{*}
b₅
b₆^{*}
b₇
b₉

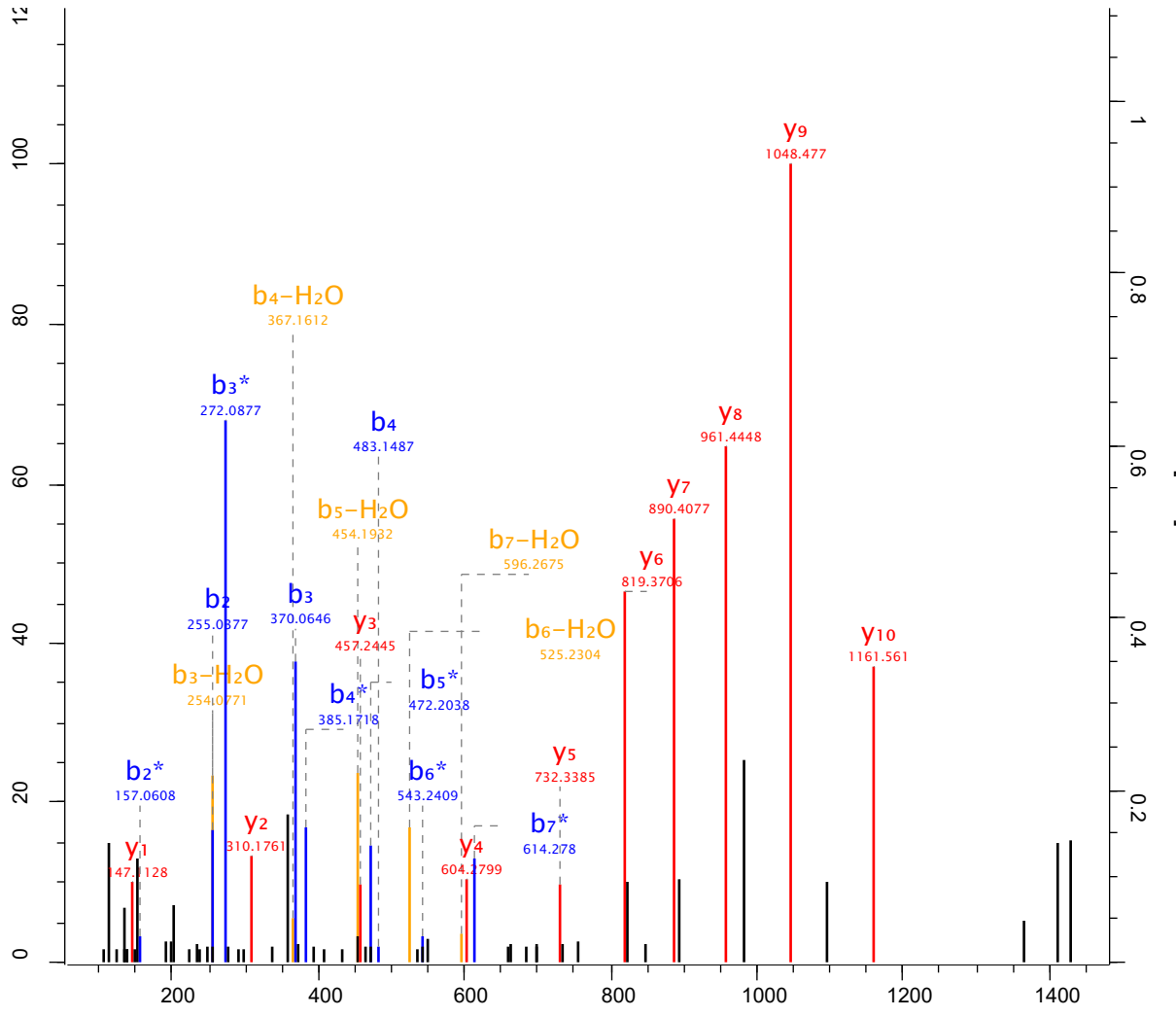
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Raw file Scan Method Score m/z
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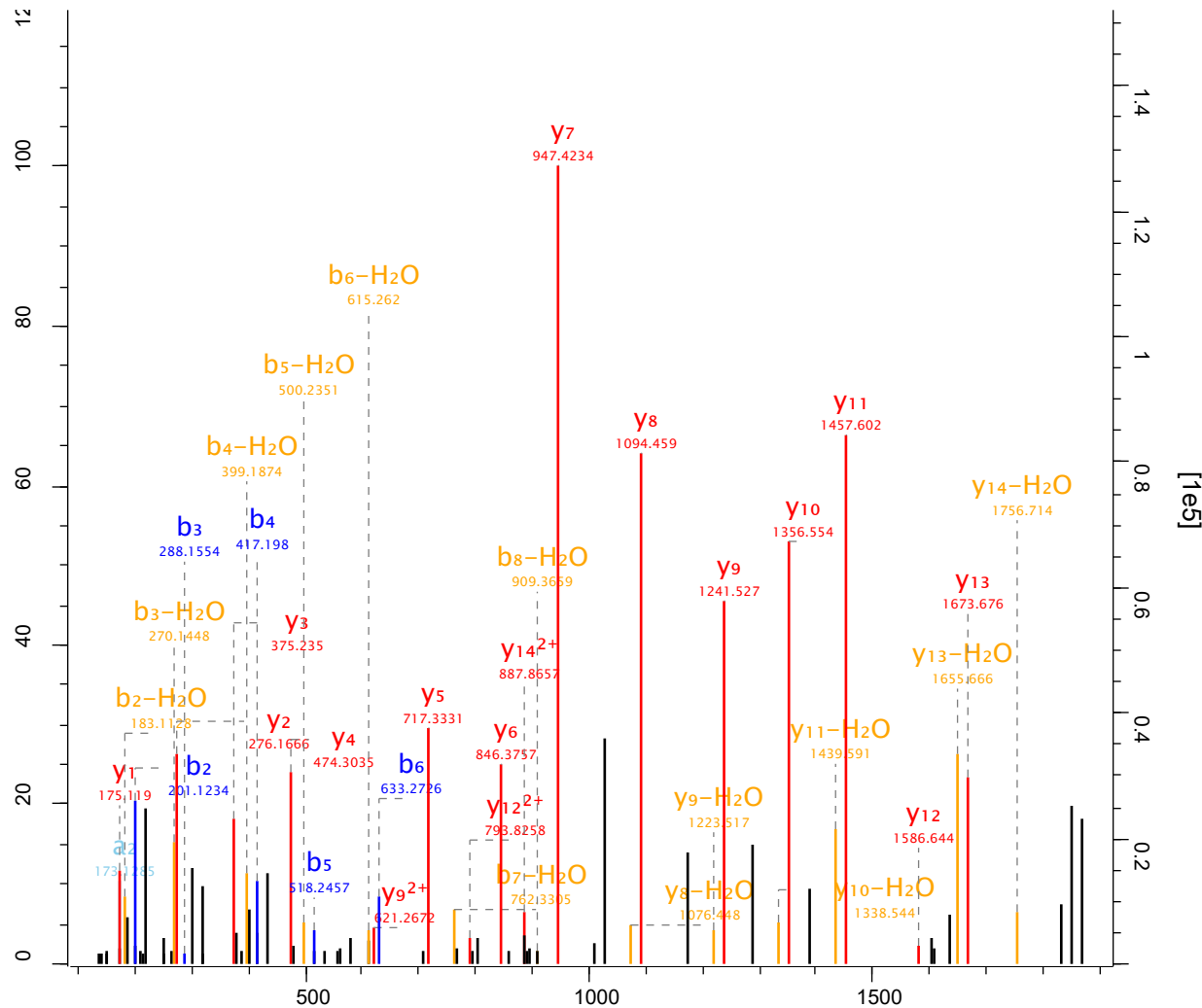


Raw file Scan Method Score m/z
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ph S S D L S A A S Q M F Y K -
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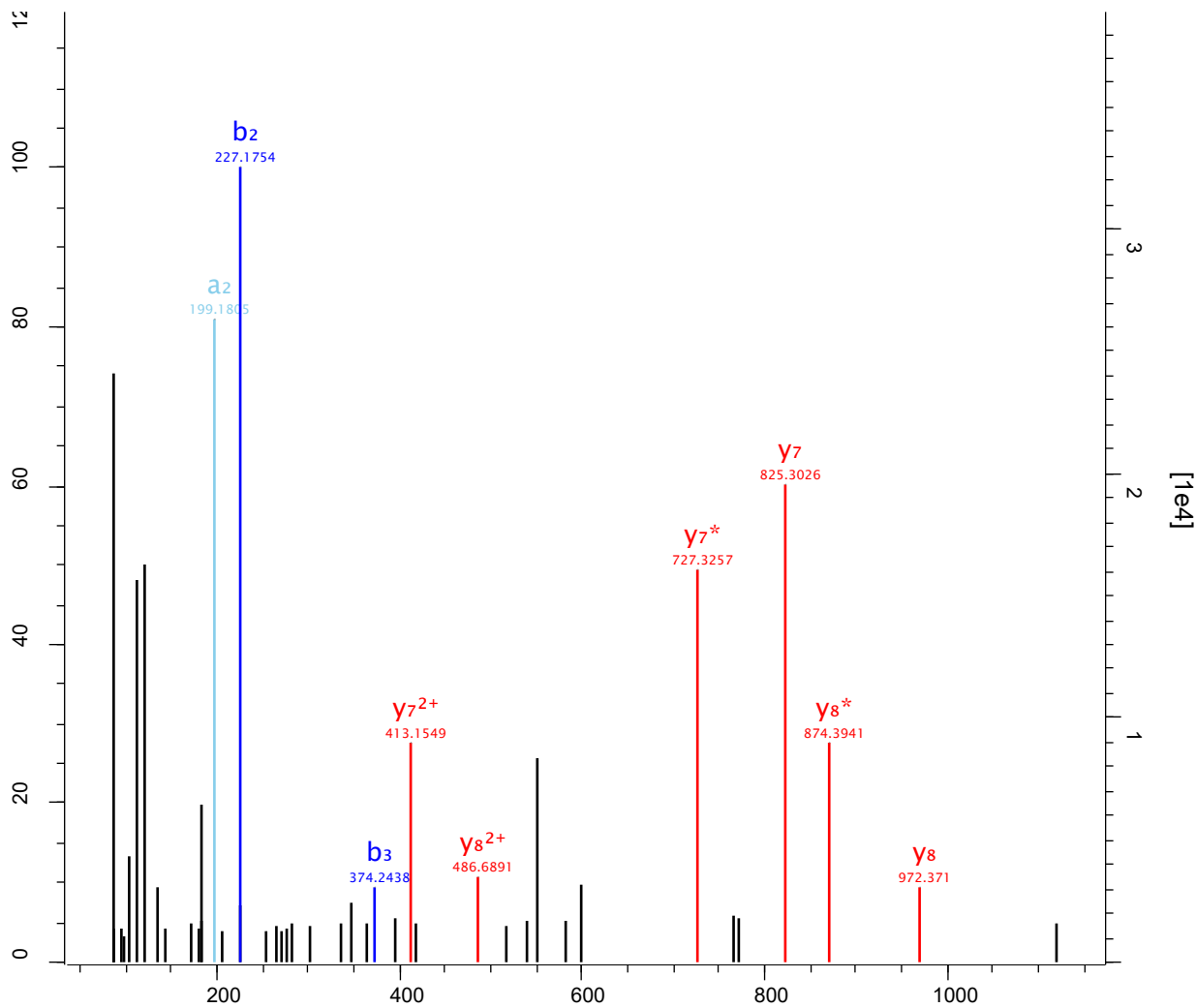
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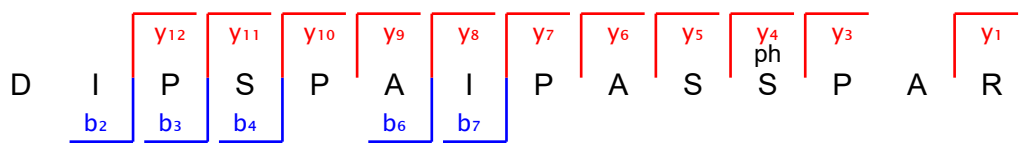
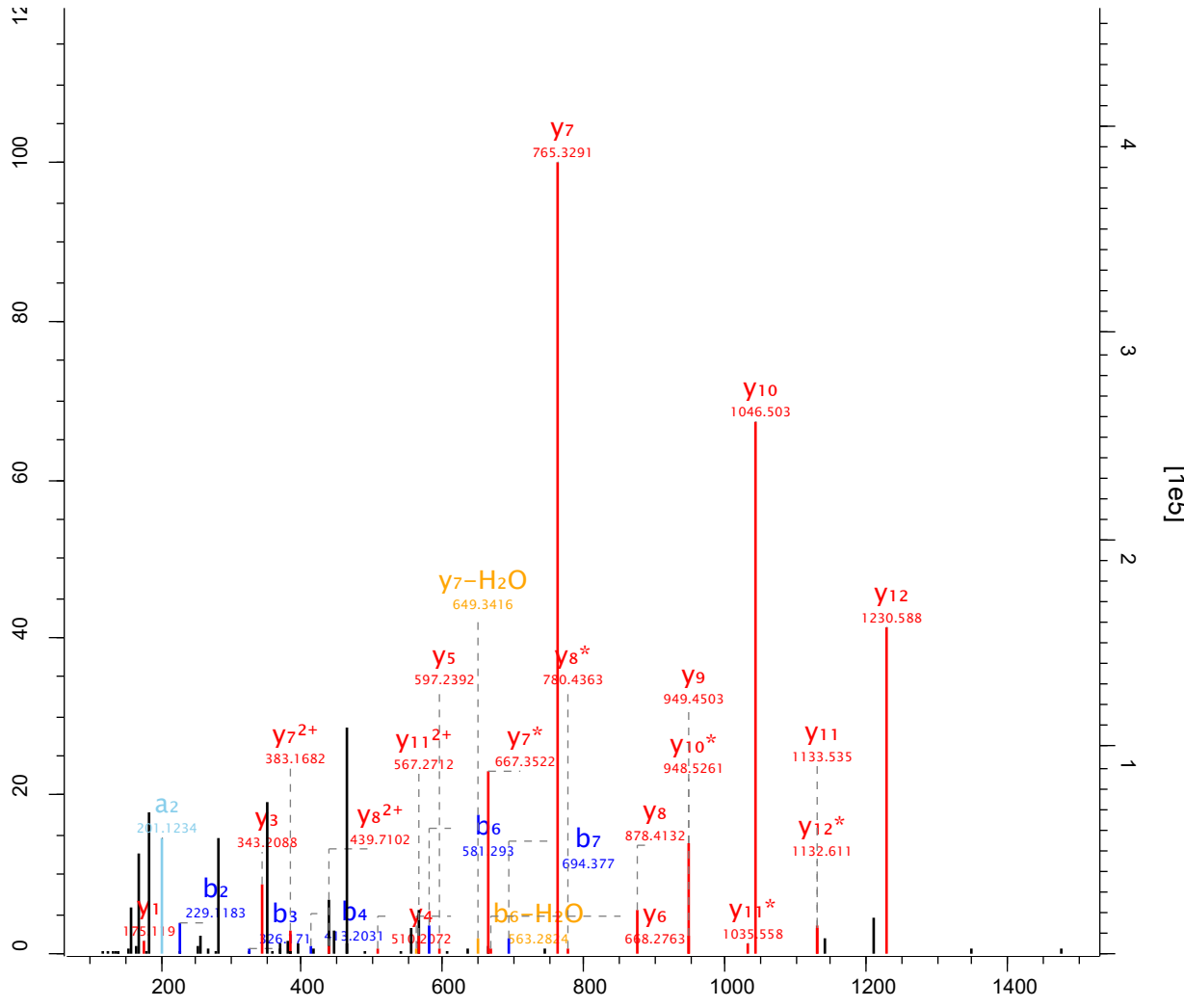
V T S E T D F M T E Y V V T R

b₂
b₃
b₄
b₅
b₆
y₁₄²⁺
y₁₃
y₁₂
y₁₁
y₁₀
y₉
y₈^{ox}
y₇
y₆
y₅^{ph}
y₄
y₃
y₂
y₁

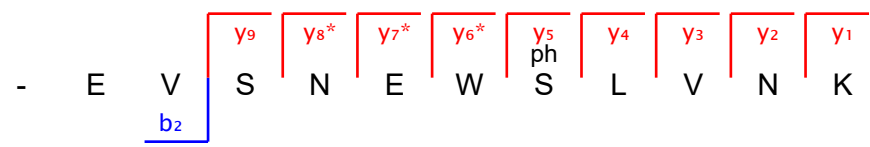
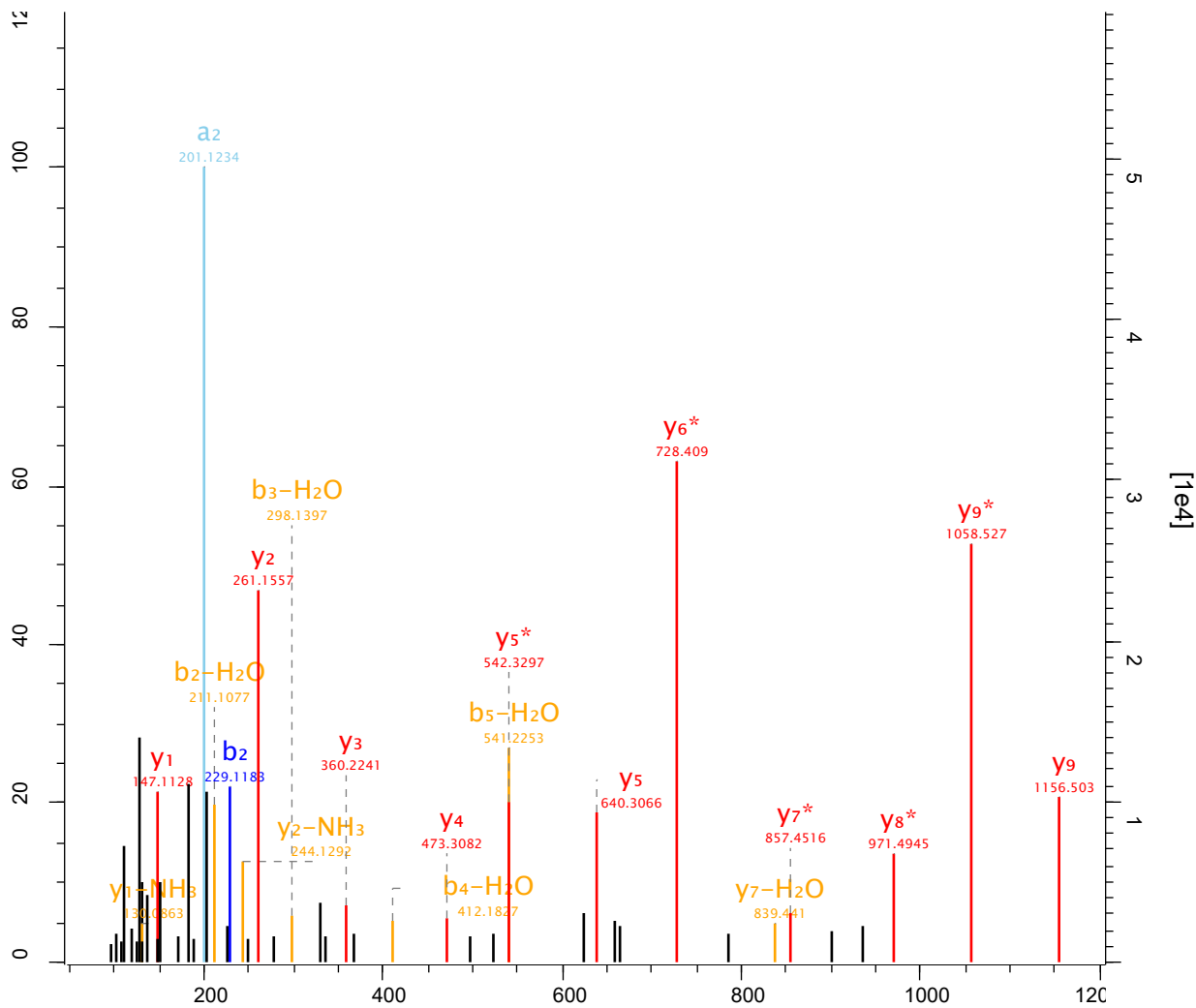
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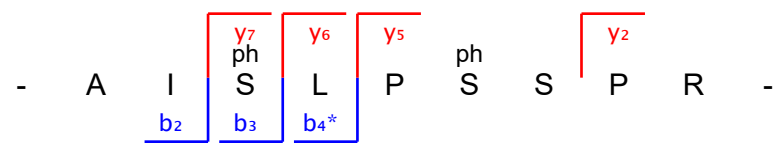
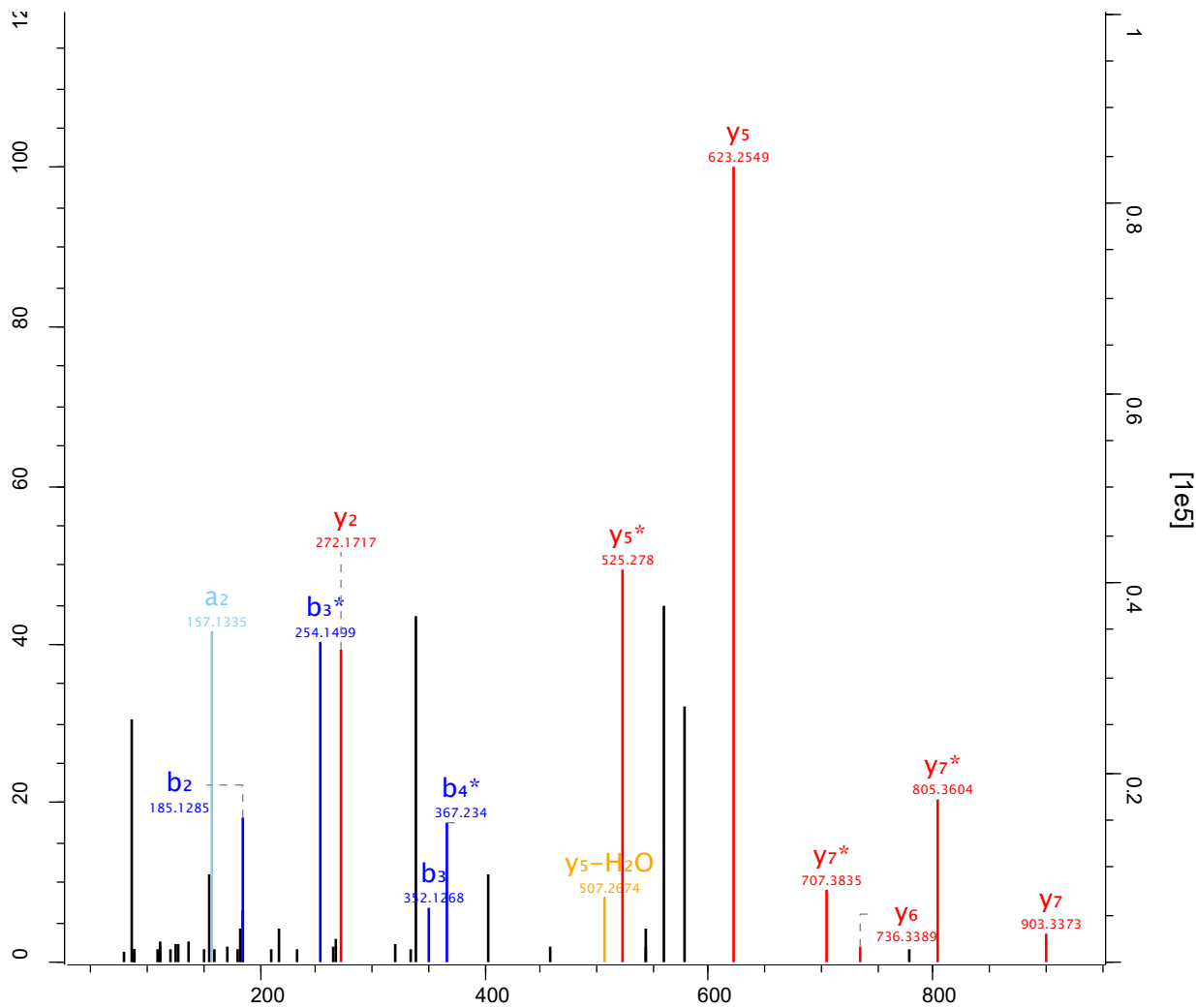
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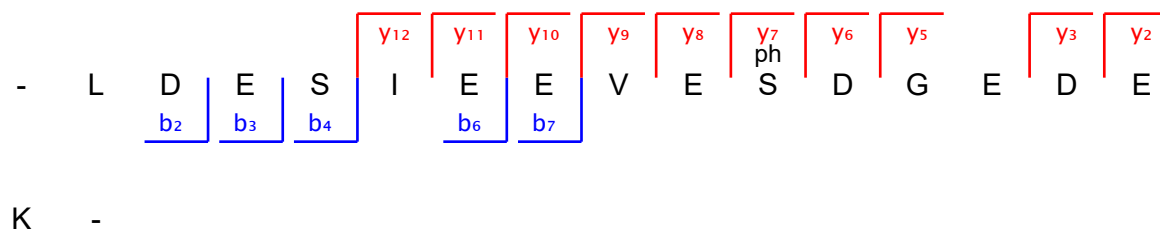
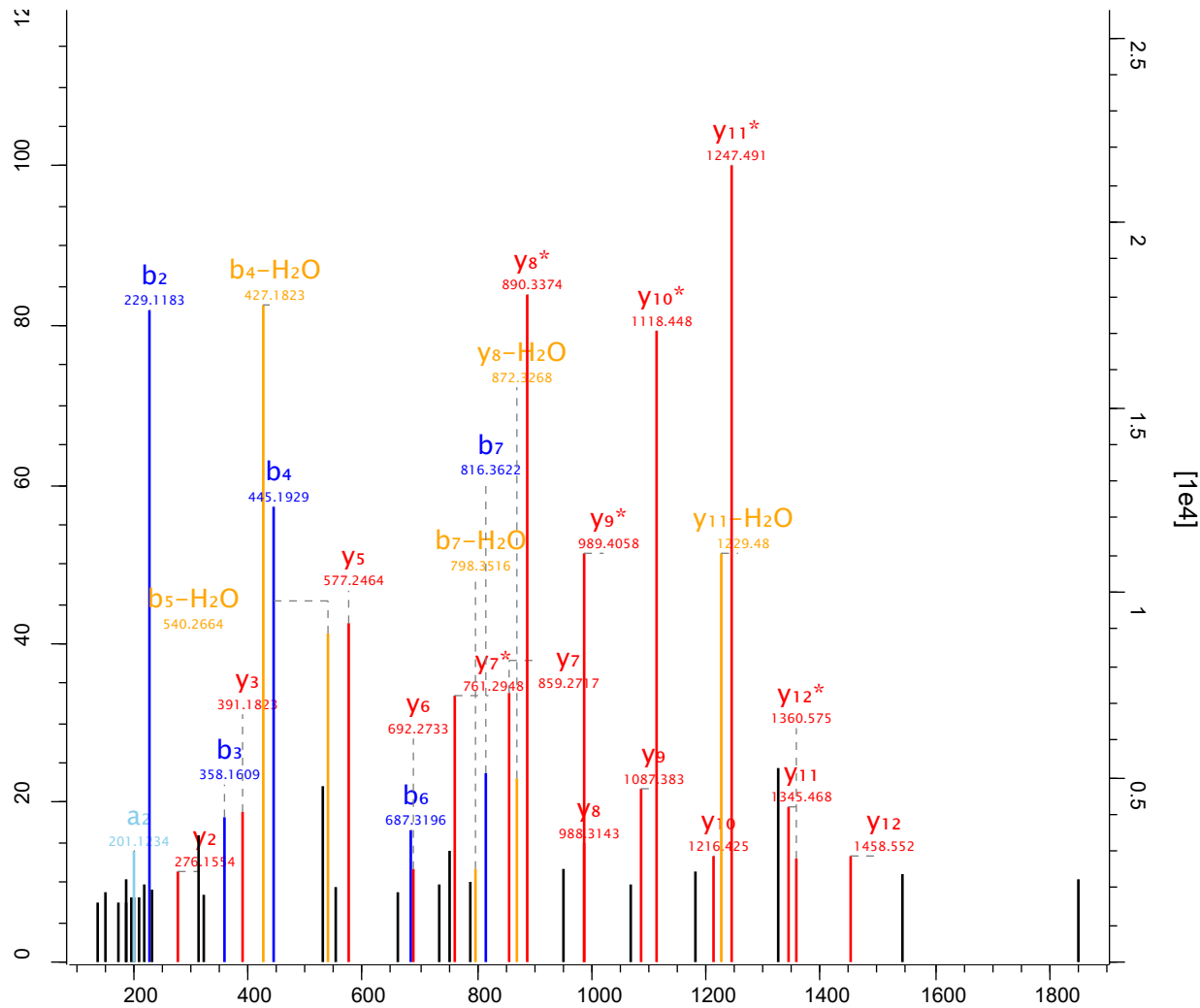
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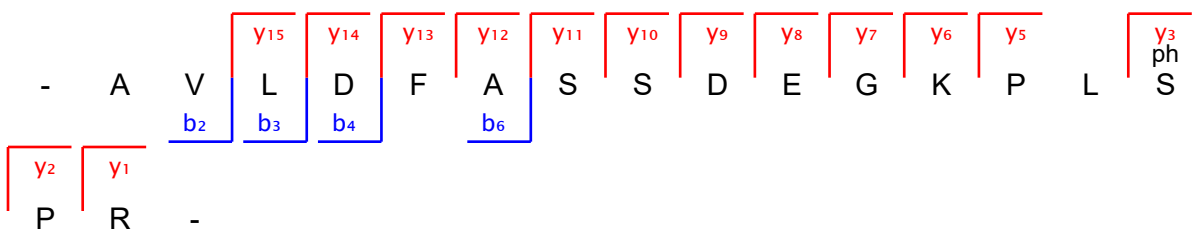
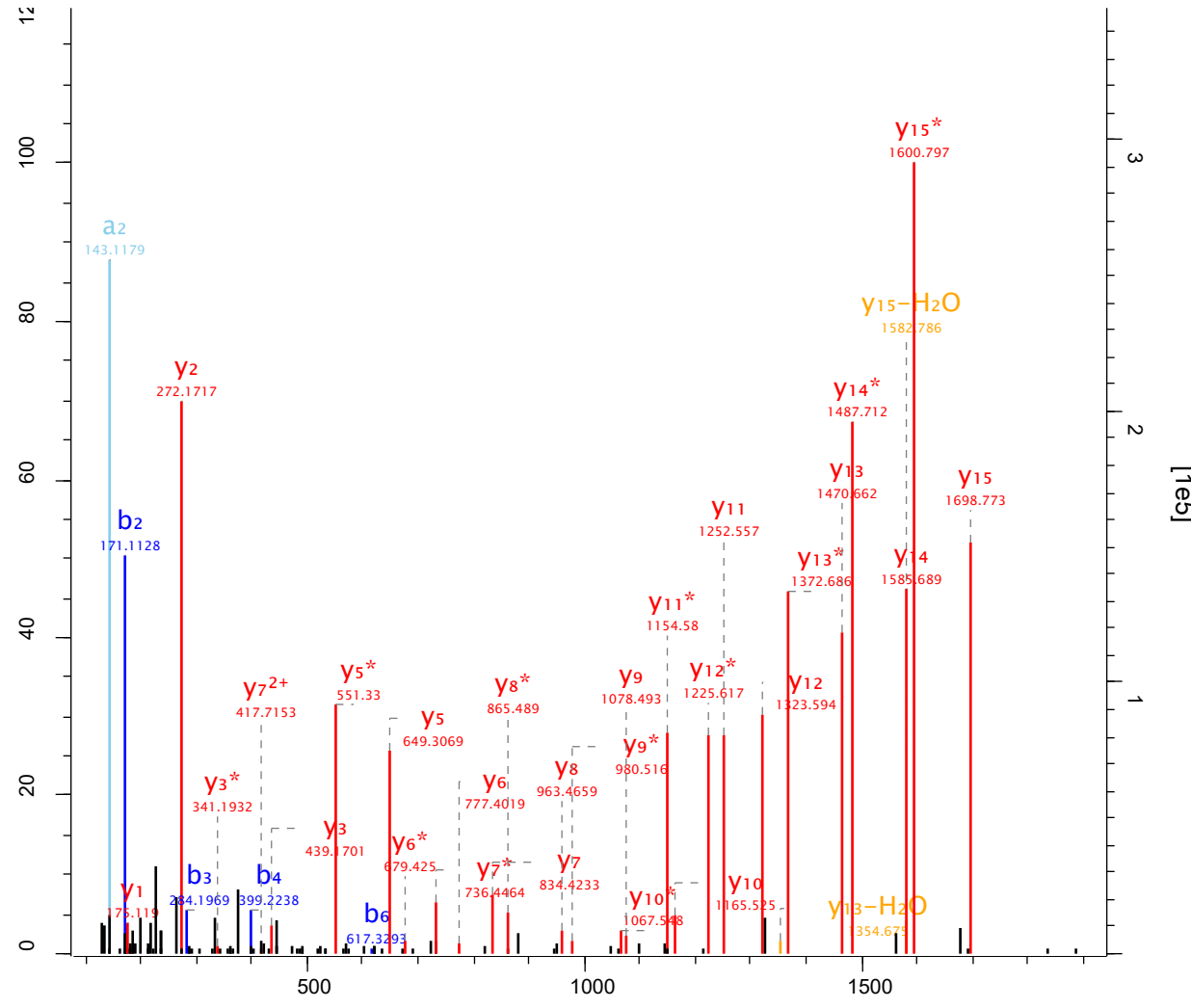
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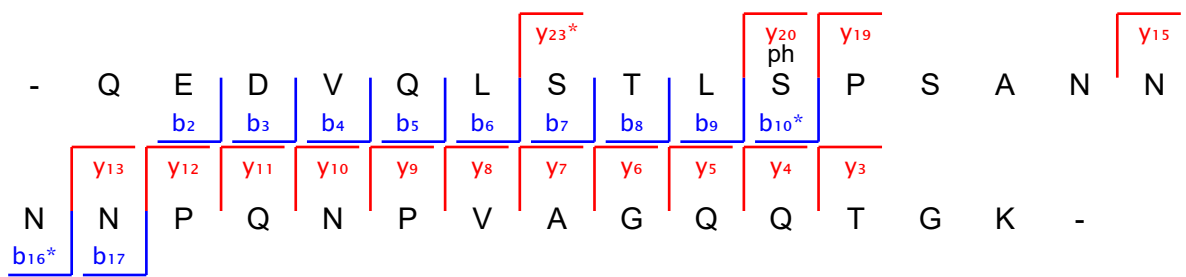
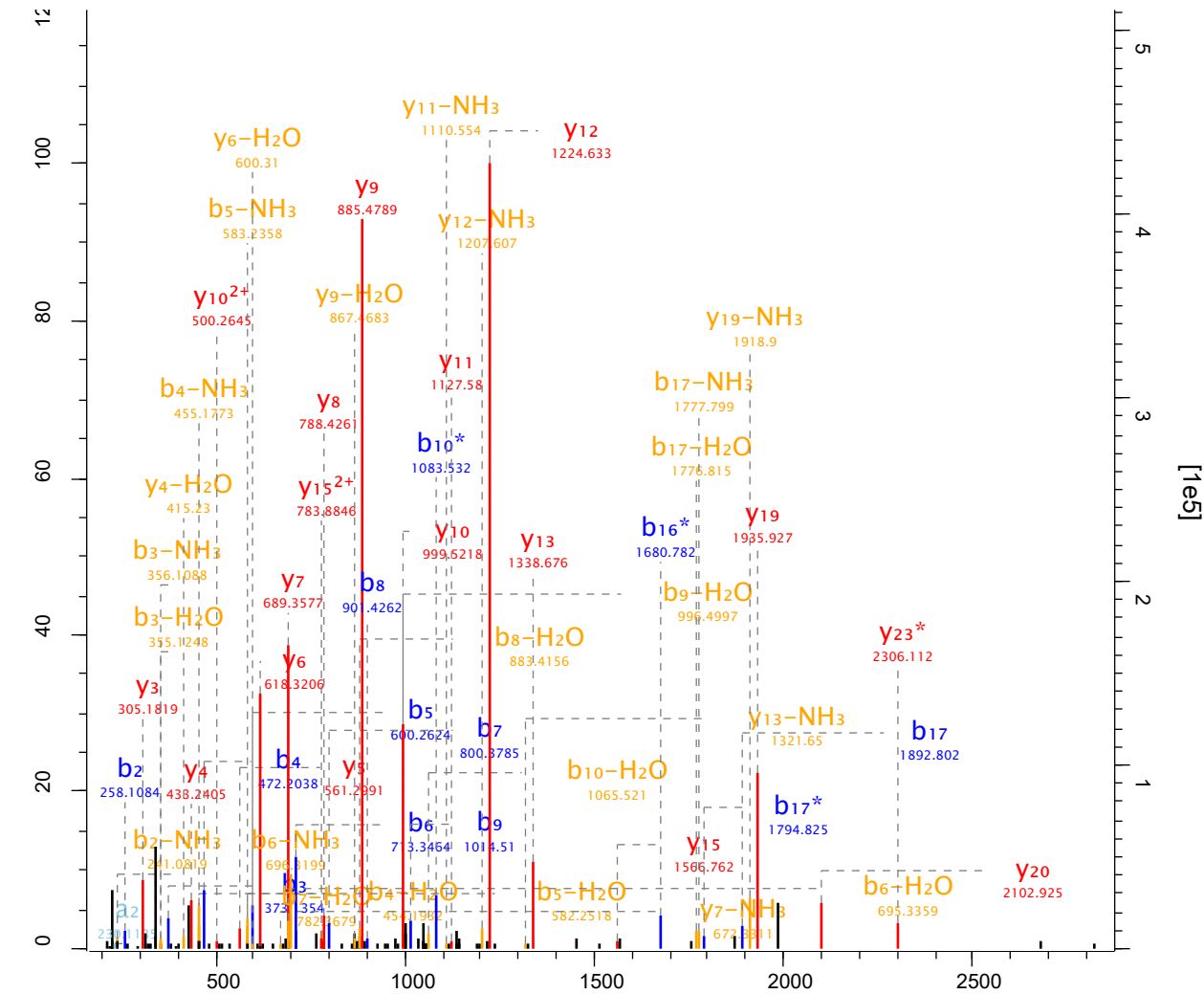
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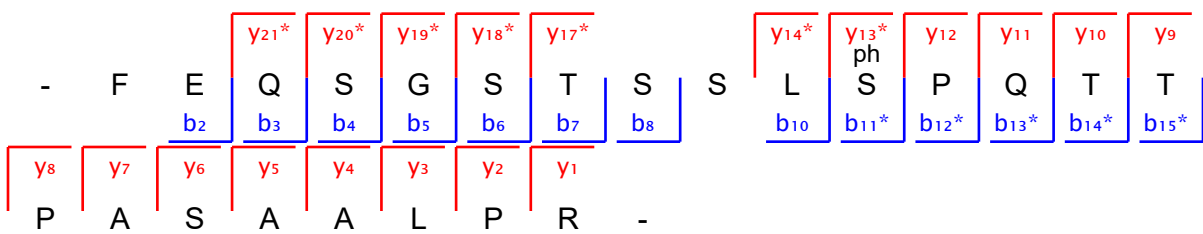
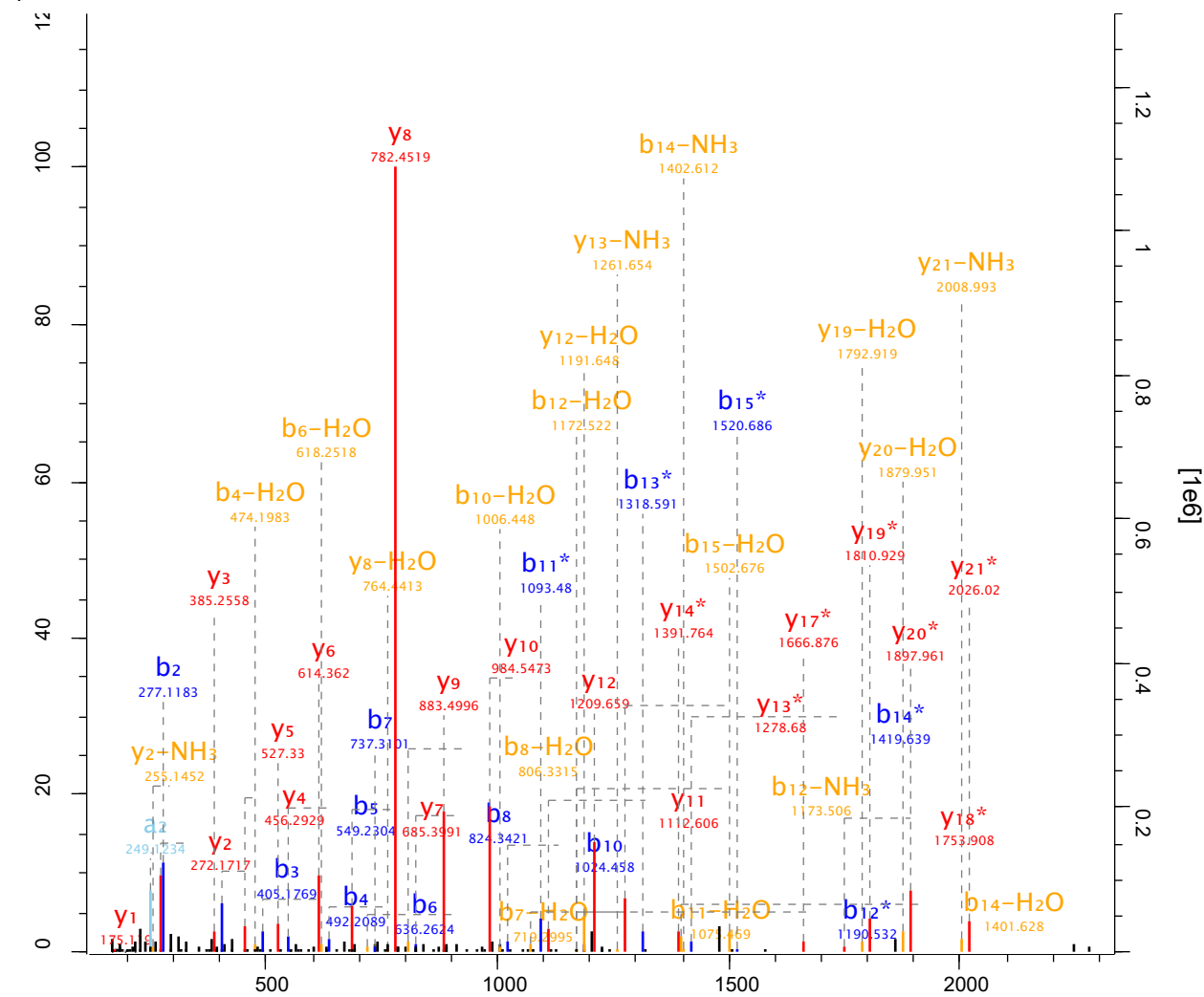
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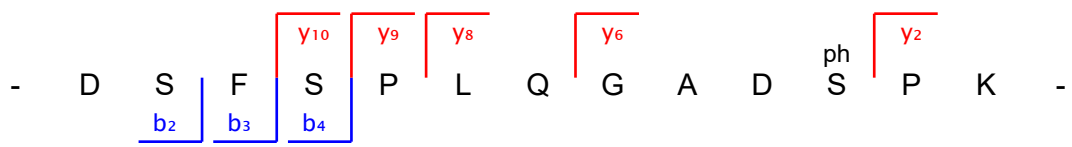
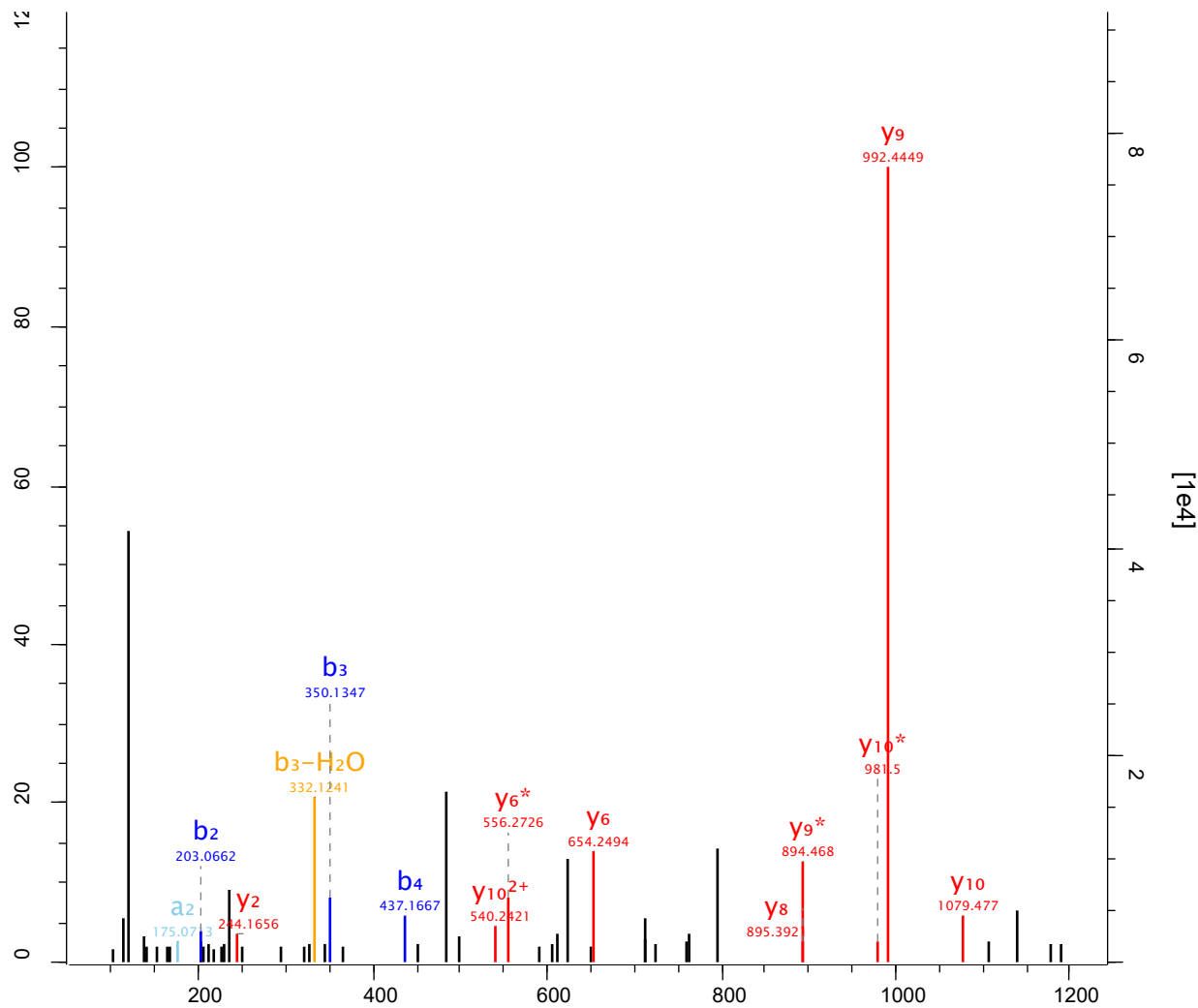
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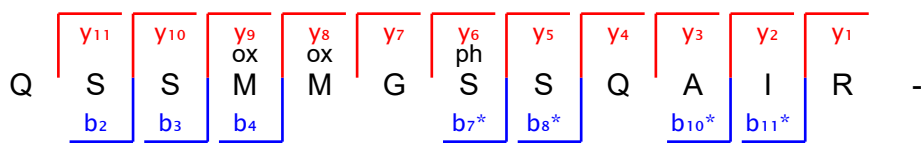
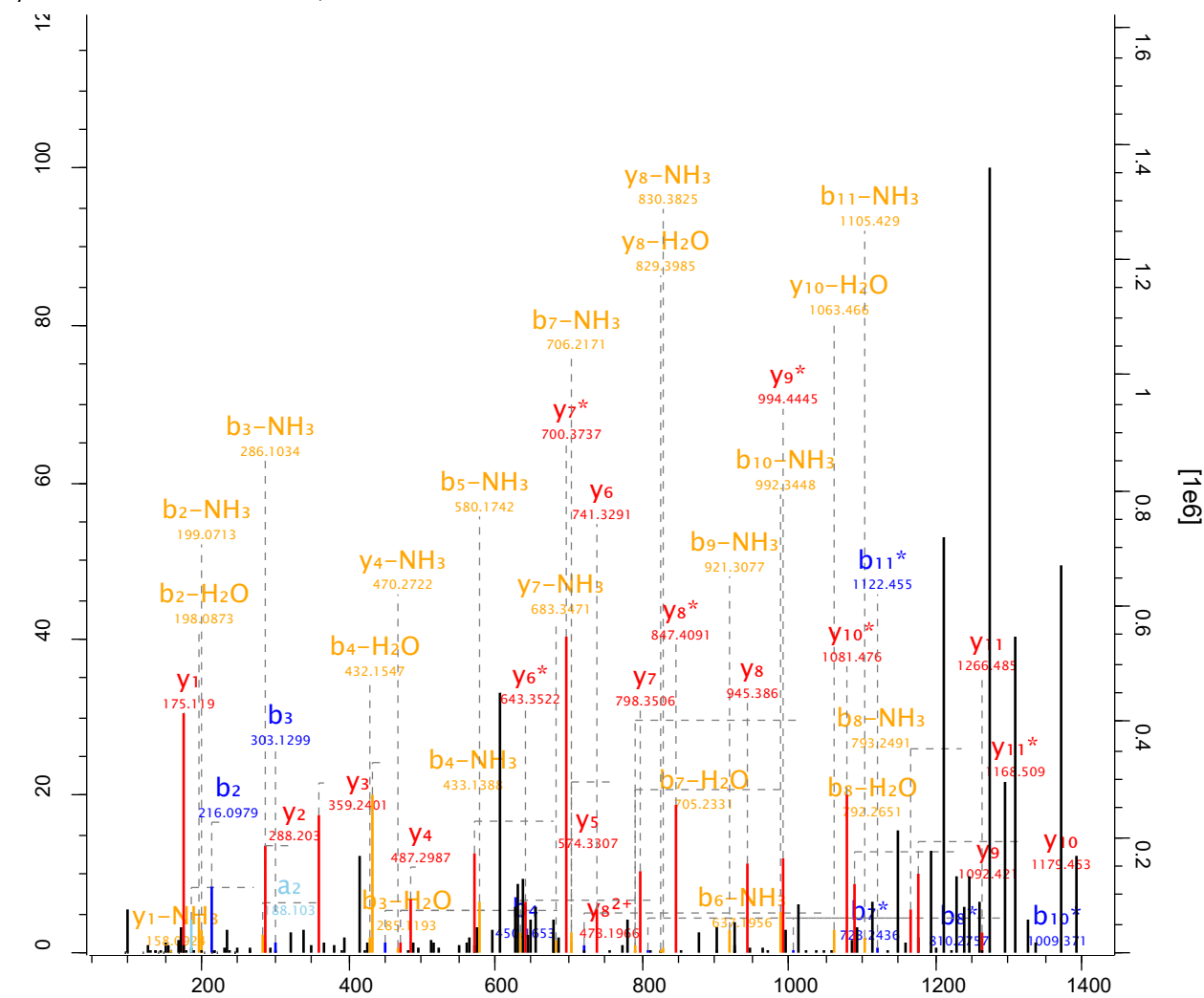
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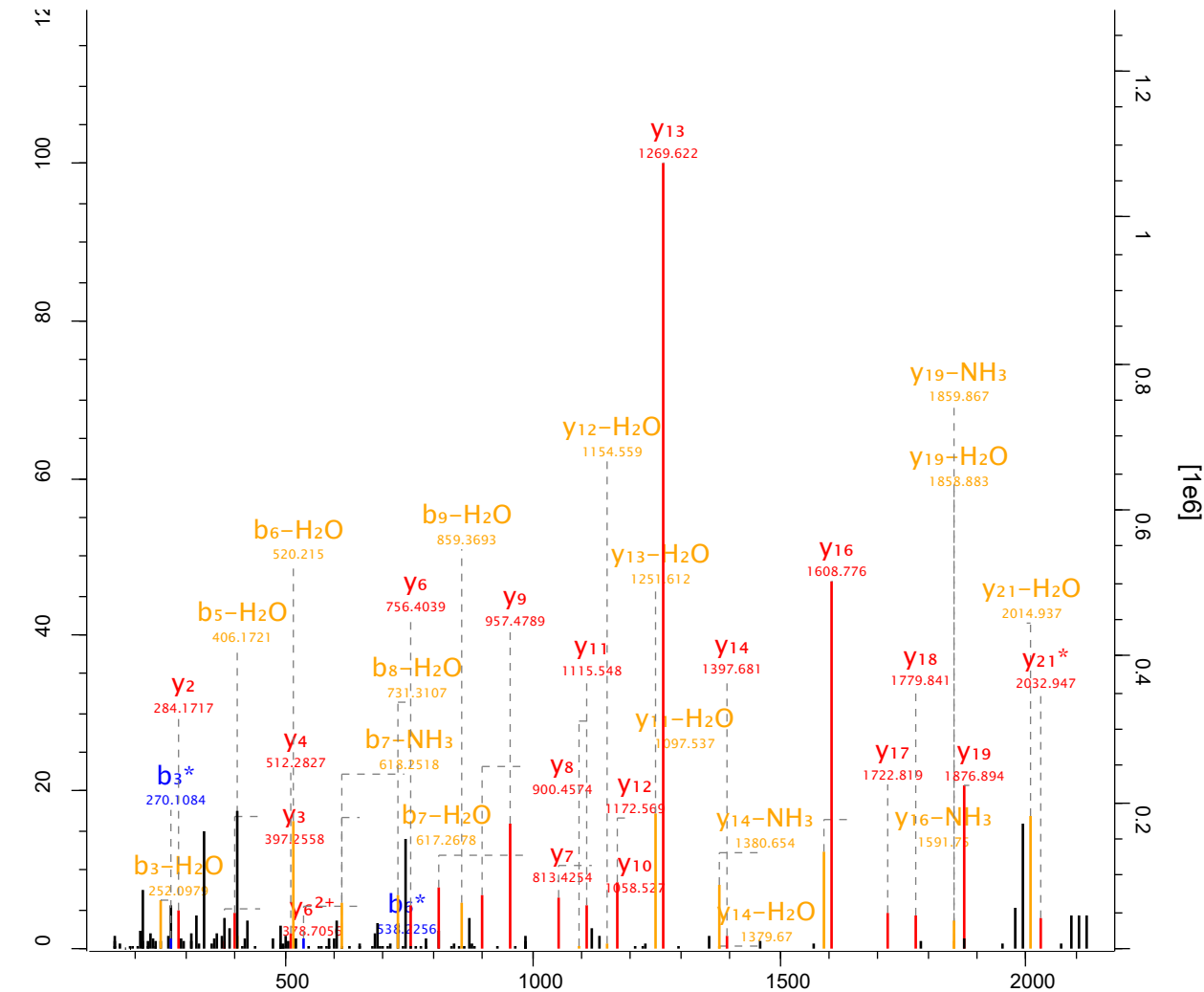
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Raw file sys_15_1 Scan 2650 Method FTMS; HCD Score 198.98 m/z 697.78

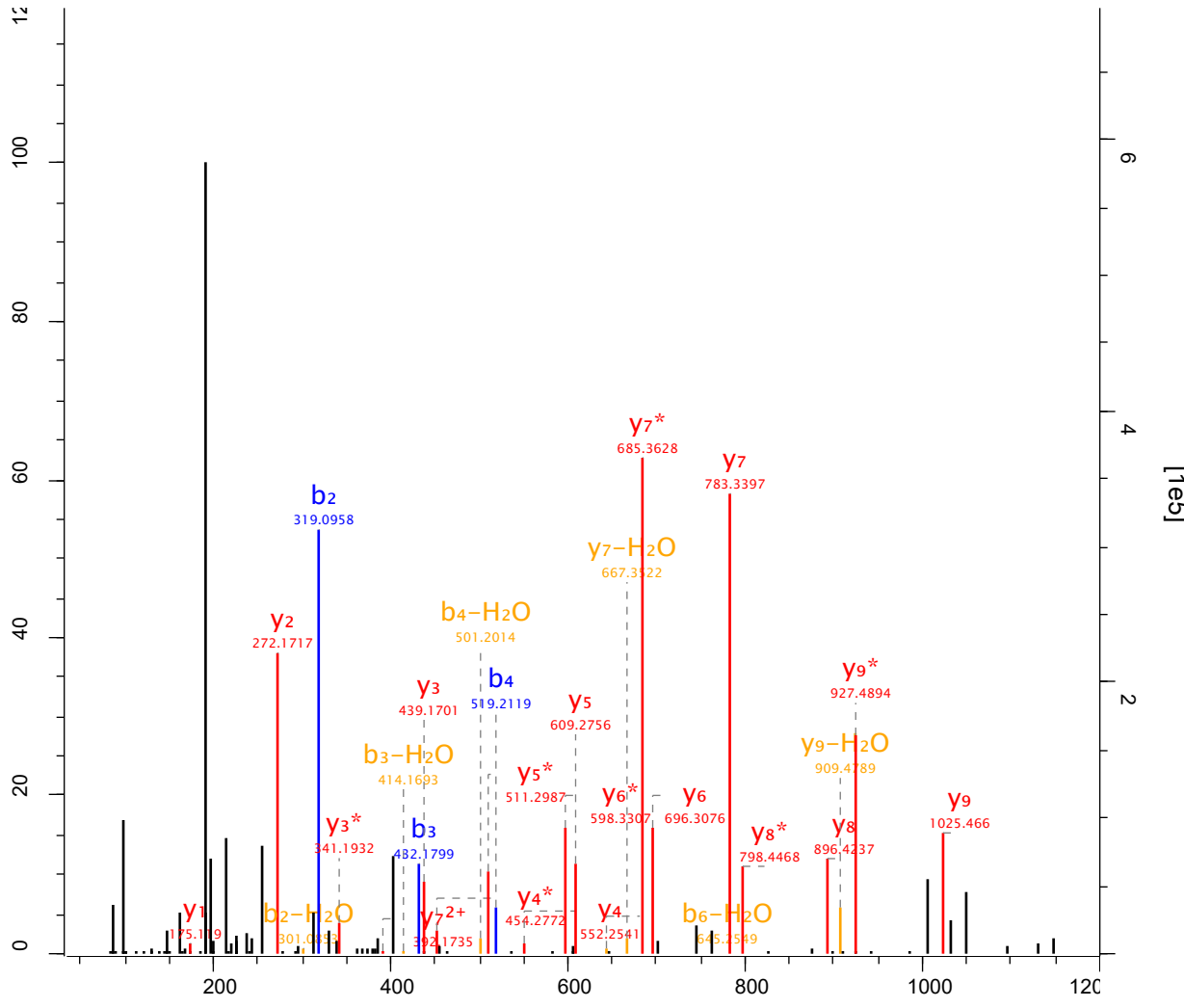


Raw file Scan Method Score m/z
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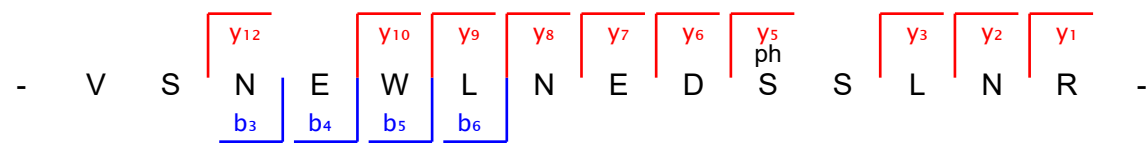
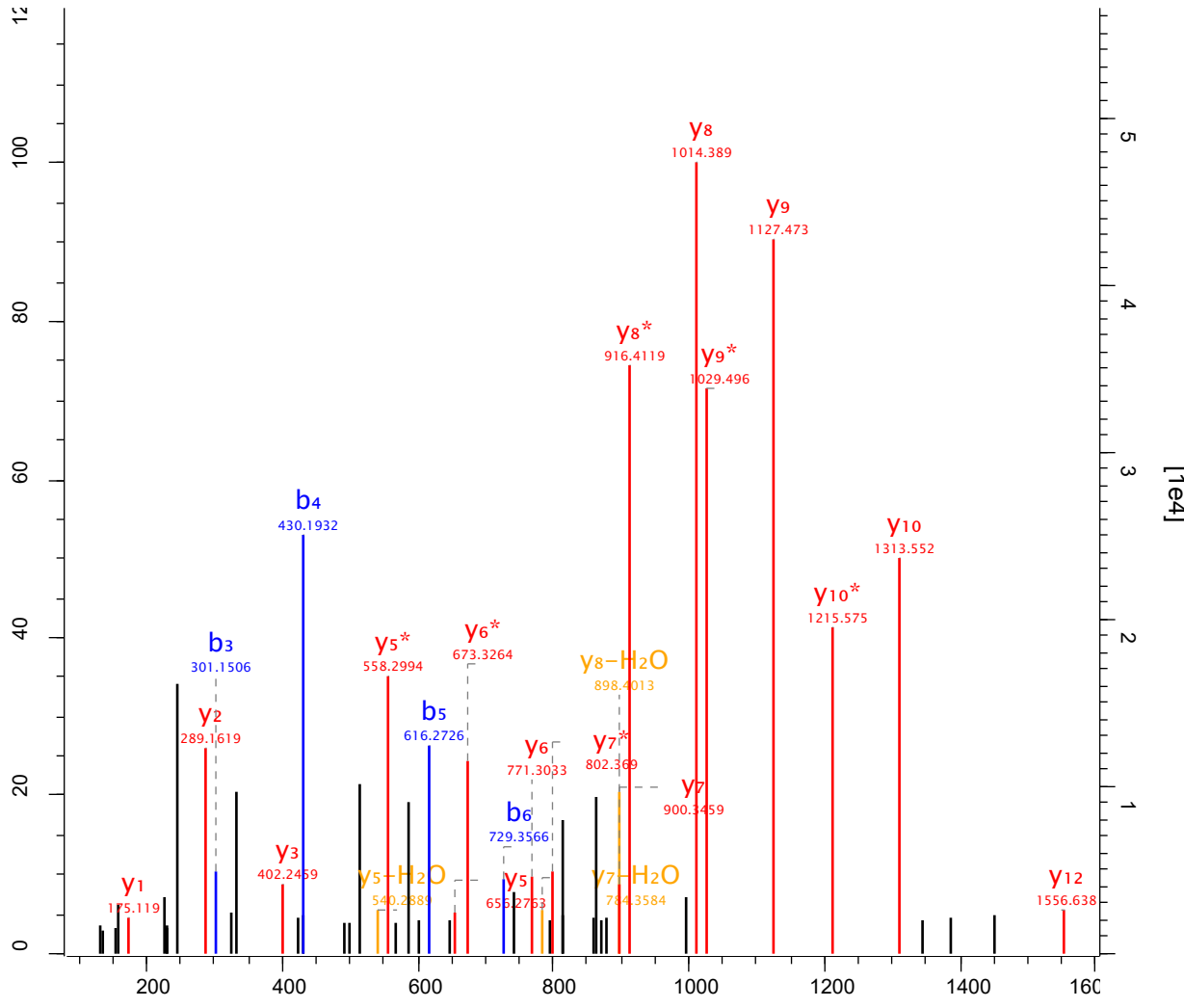
ac
 - A S S P G N P N Q P G G T G S
 y21* ph
 y19 y18 y17 y16
 b3* b6*
 y7 y6 y4 y3 y2
 G P F D I H K -

Raw file Scan Method Score m/z
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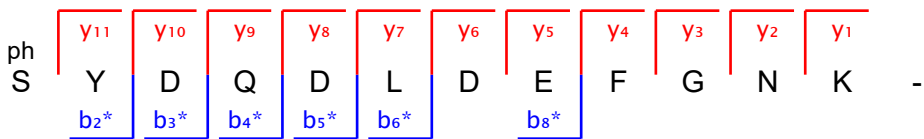
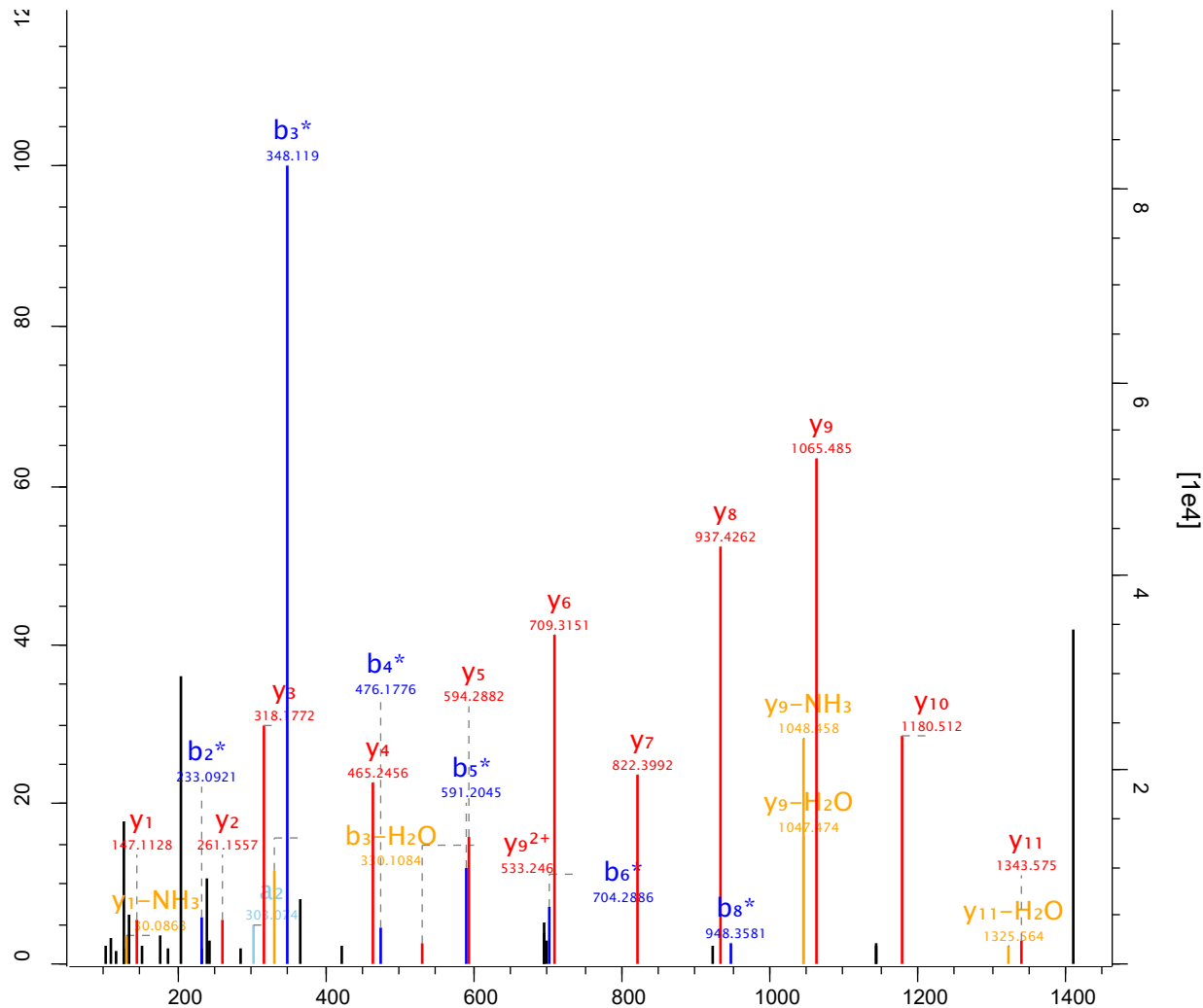


ac ox M y9 y8 y7 y6 y5 y4 y3 y2 y1
 - M E I S S G L S P R -

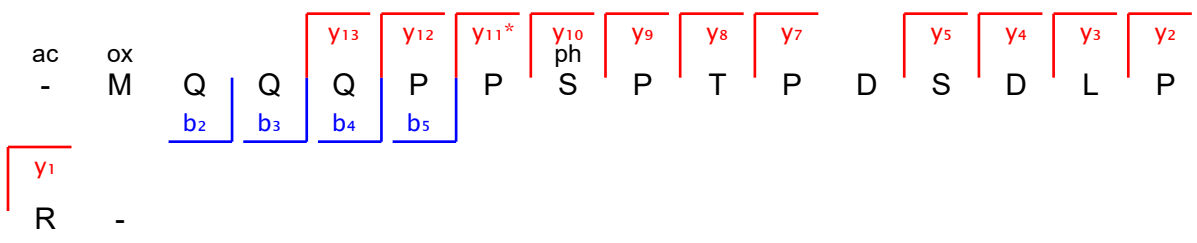
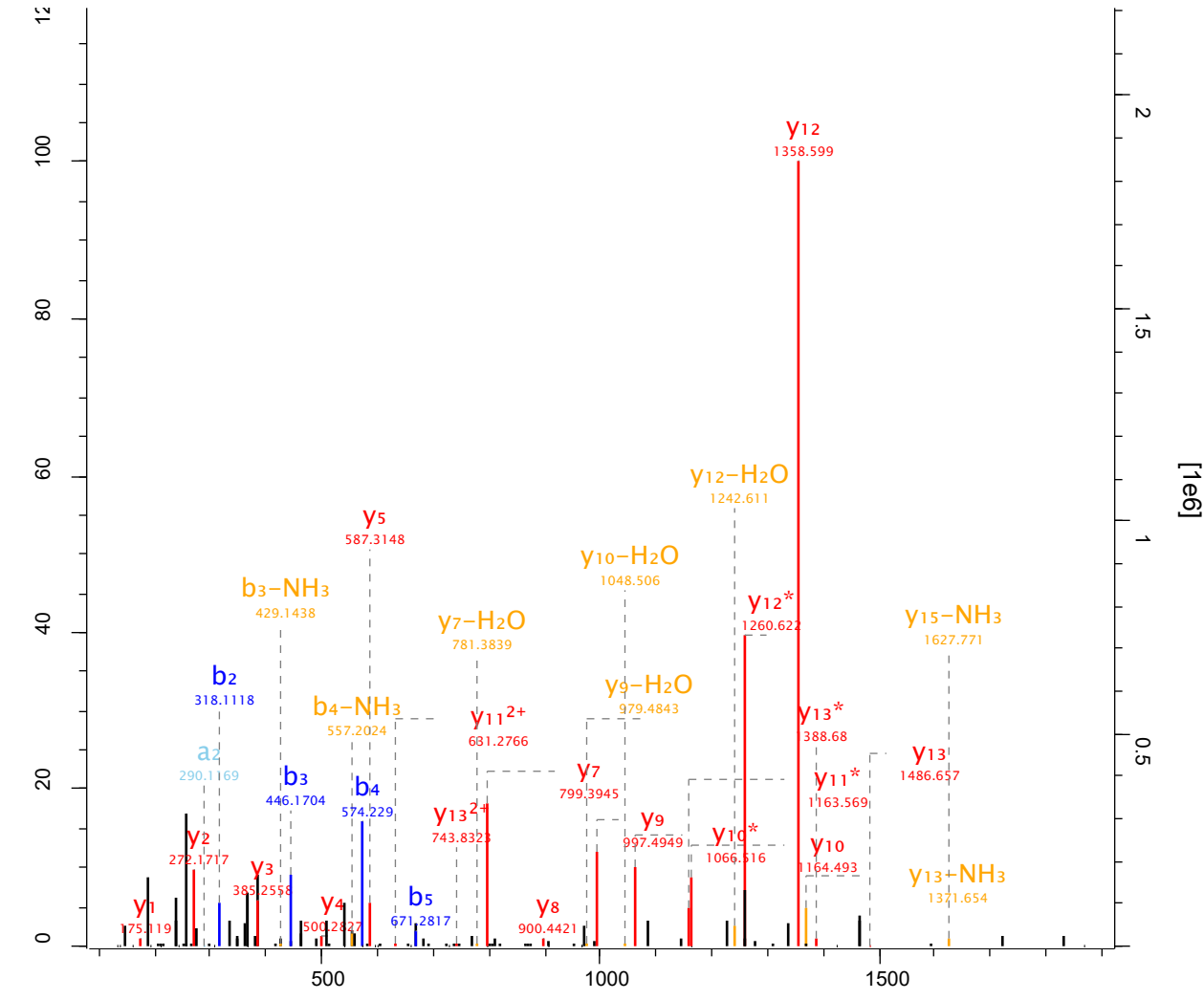
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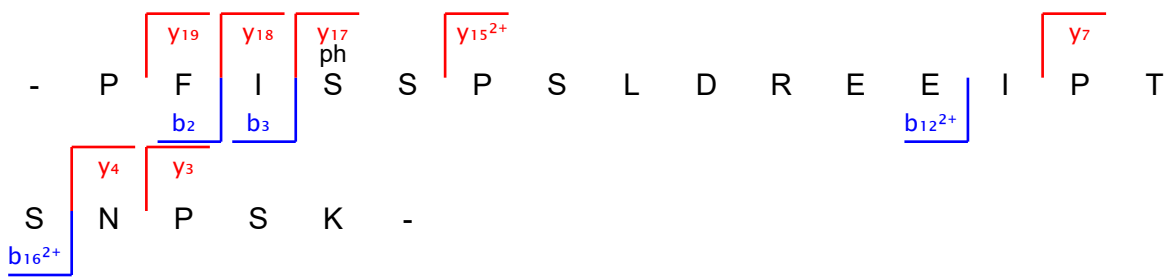
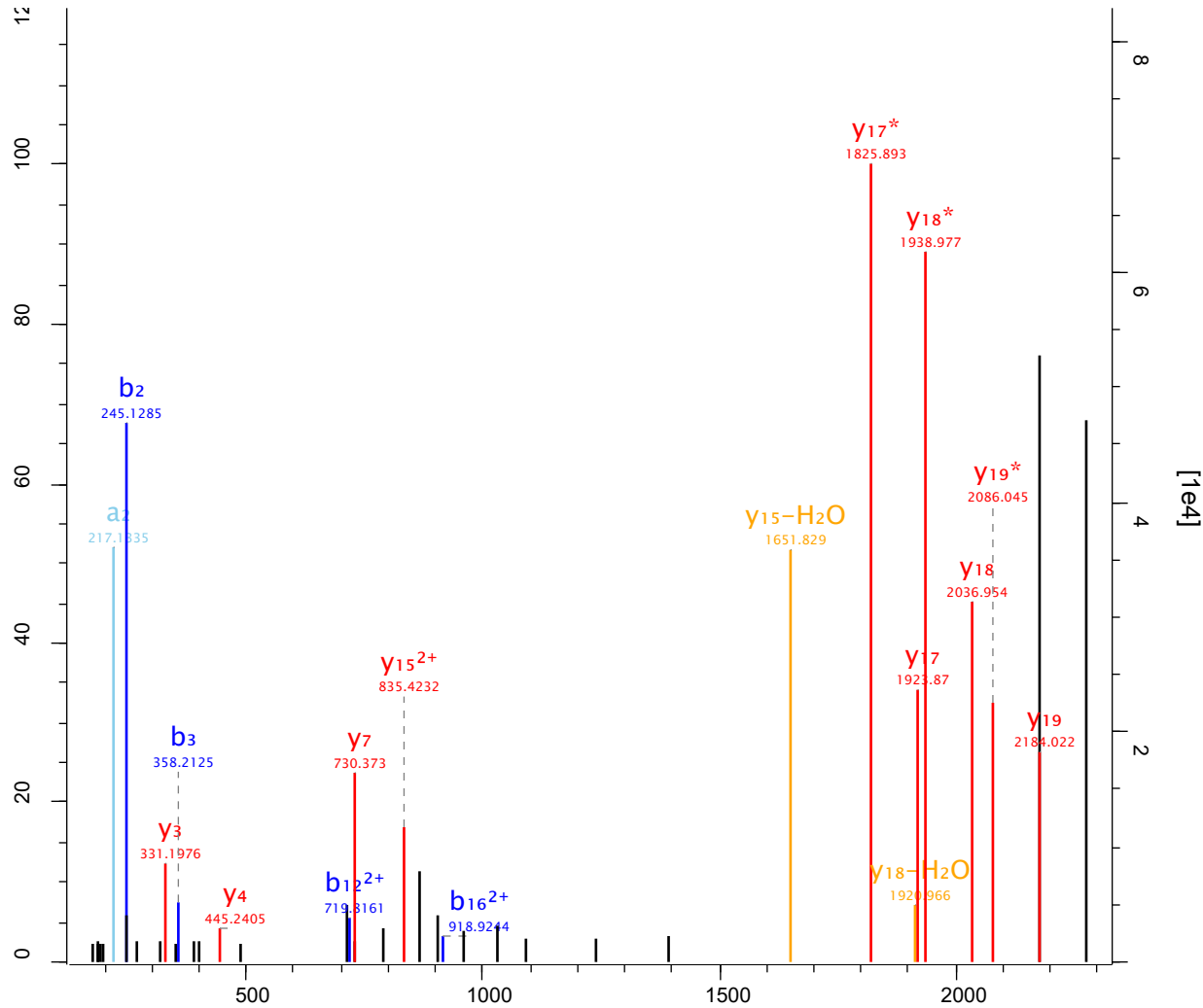
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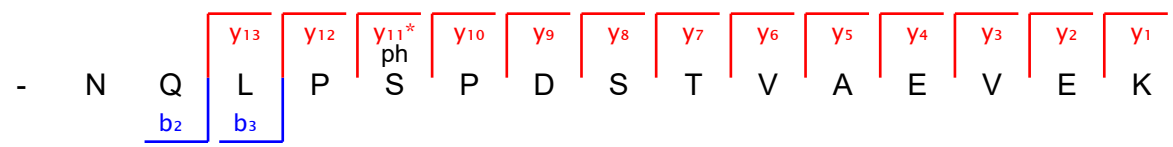
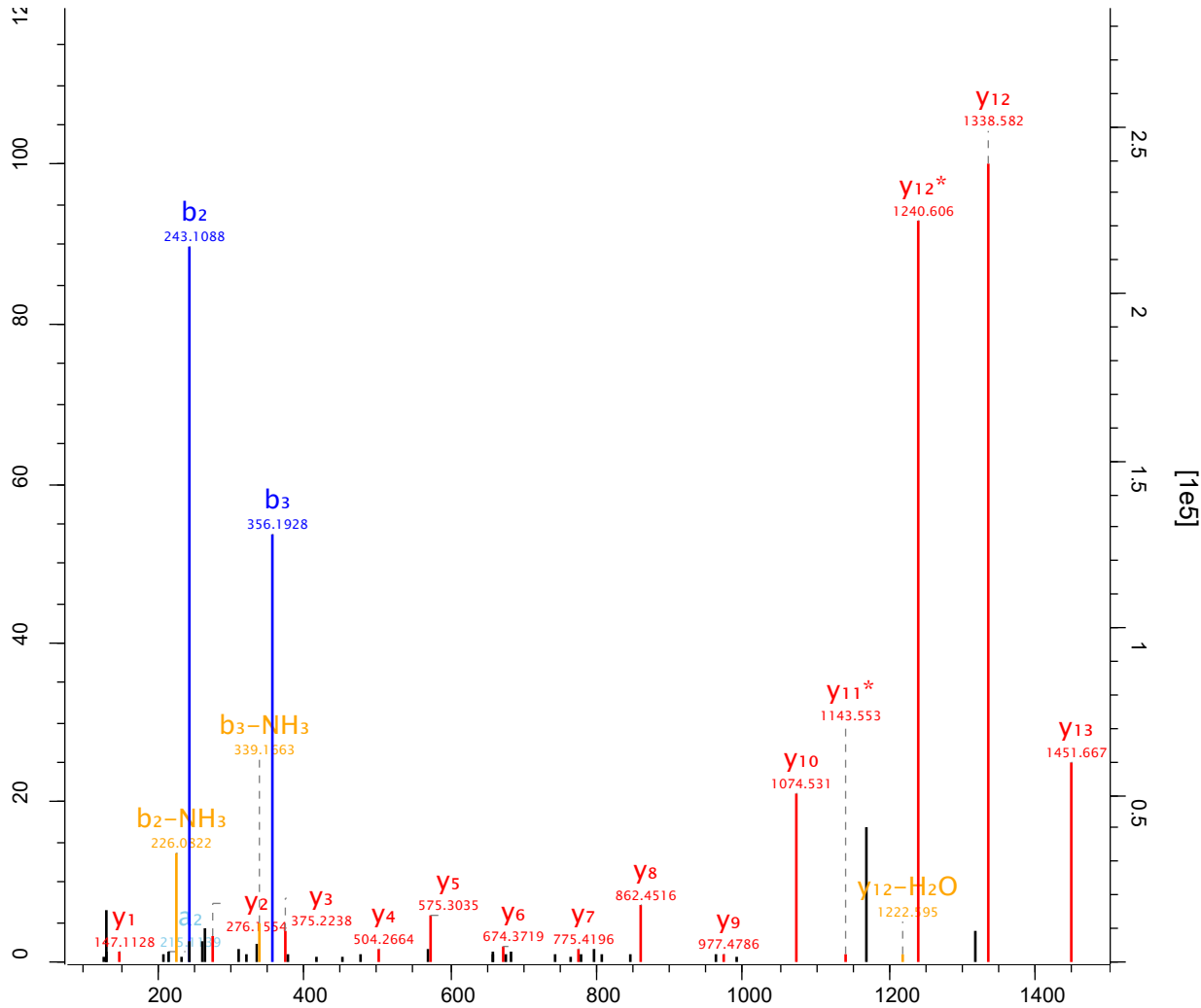
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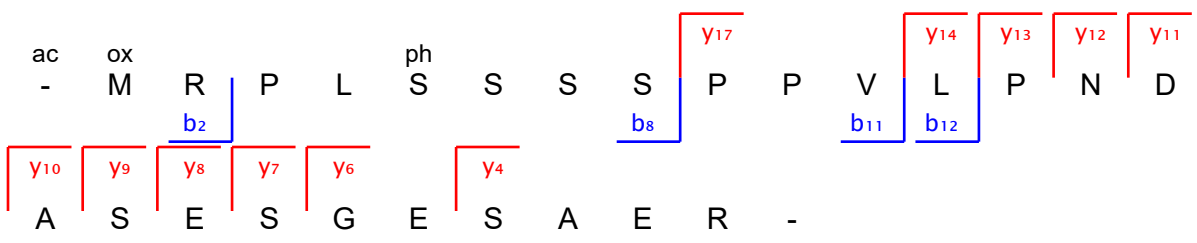
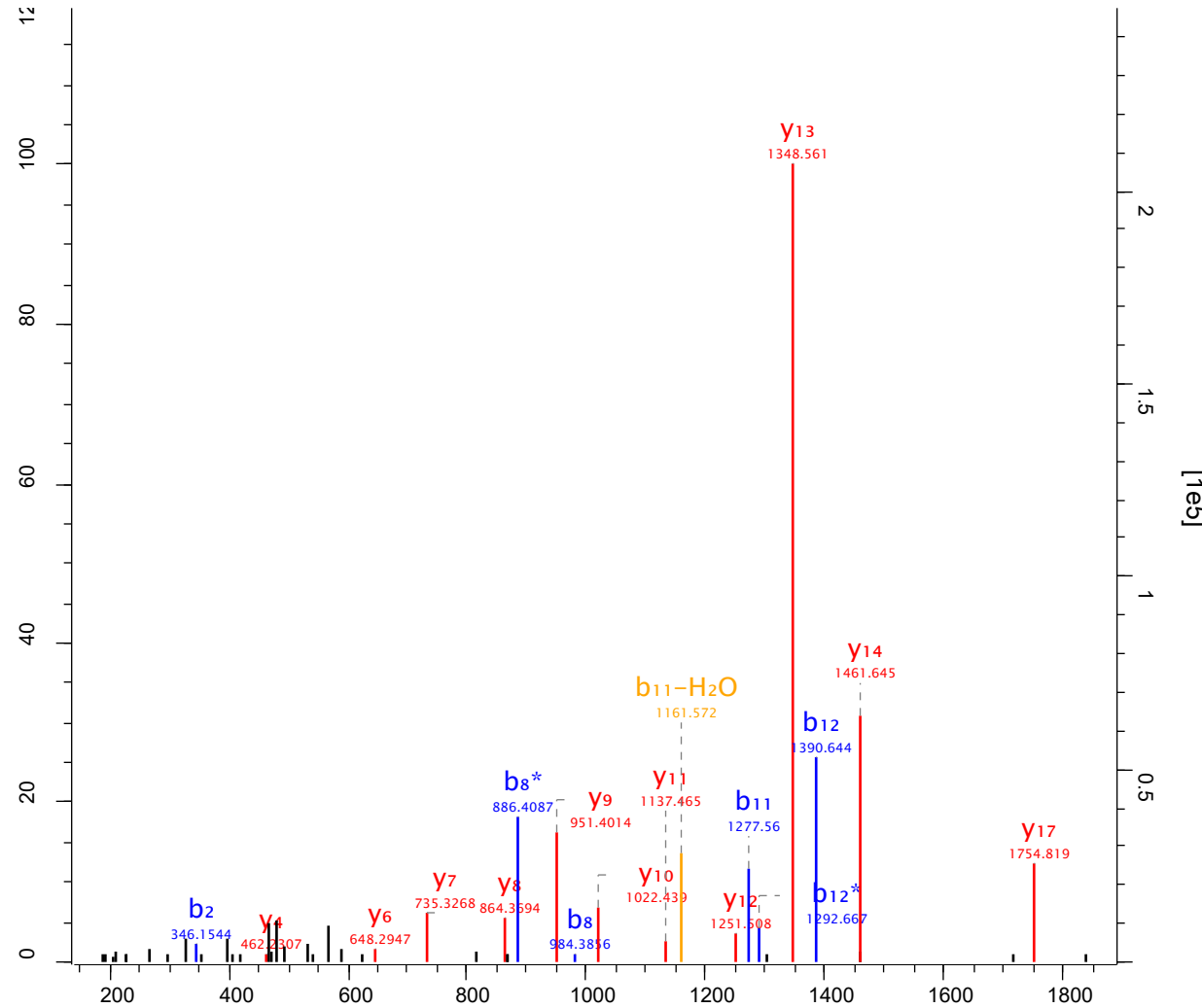
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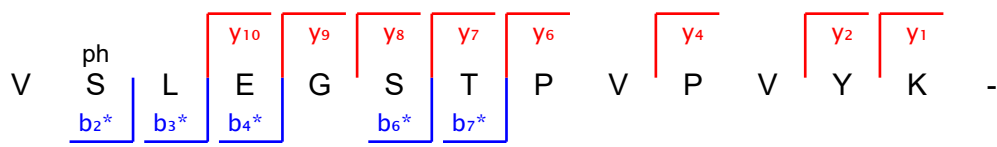
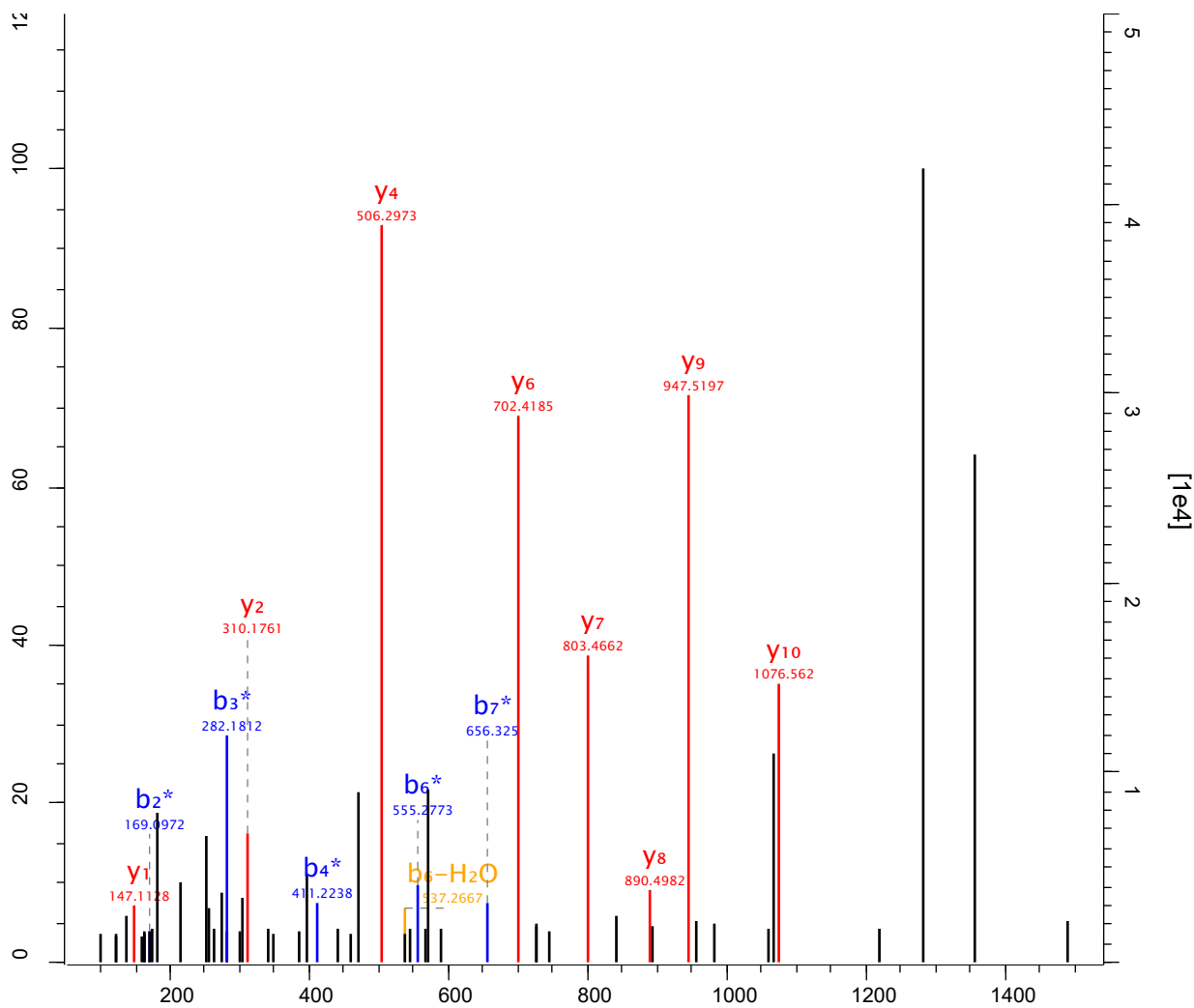
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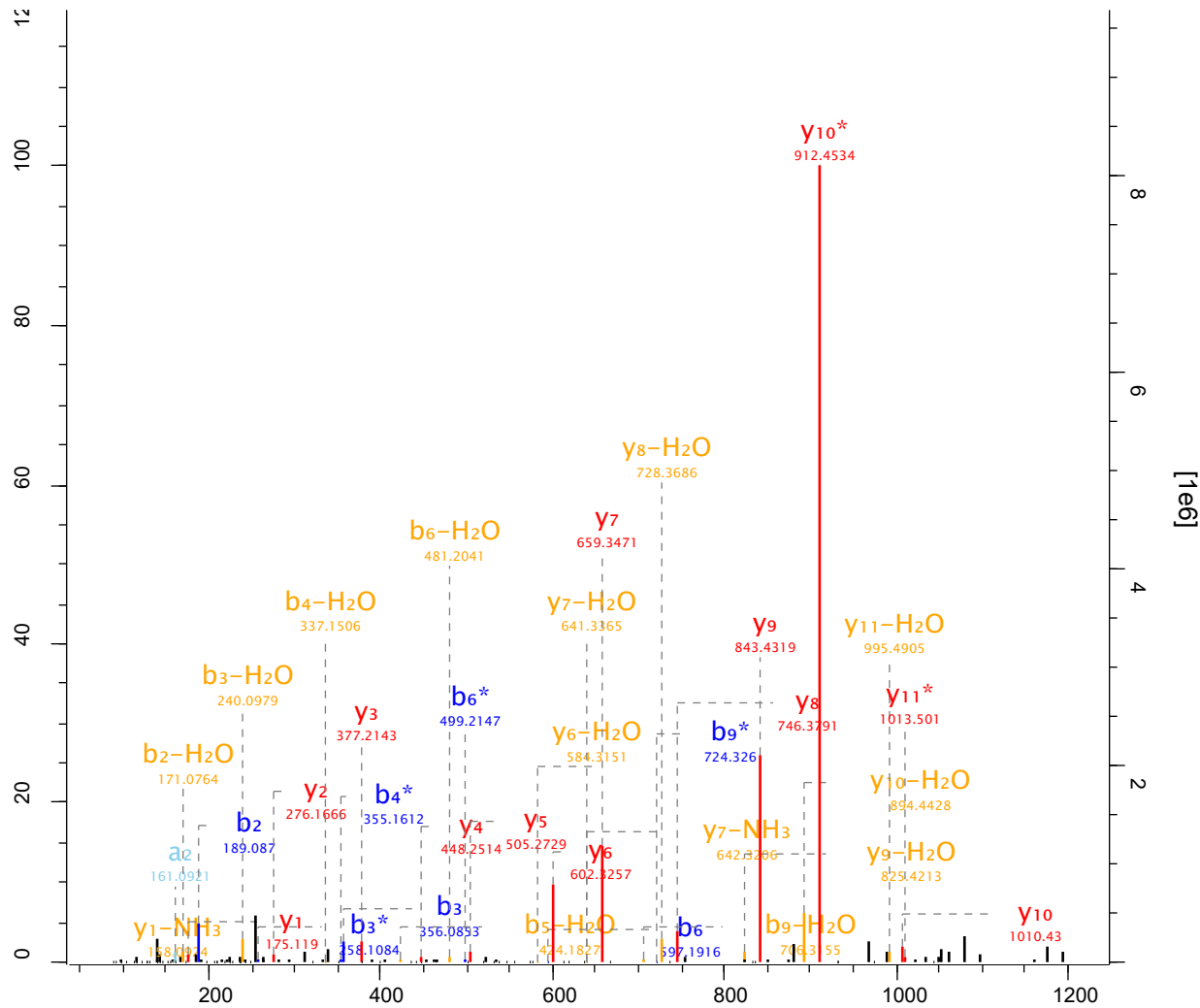
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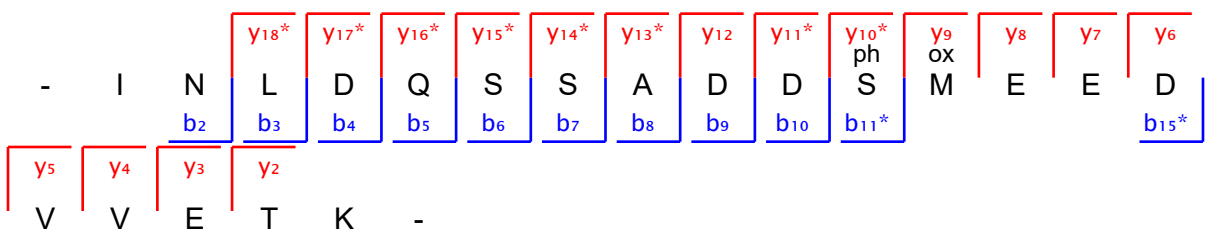
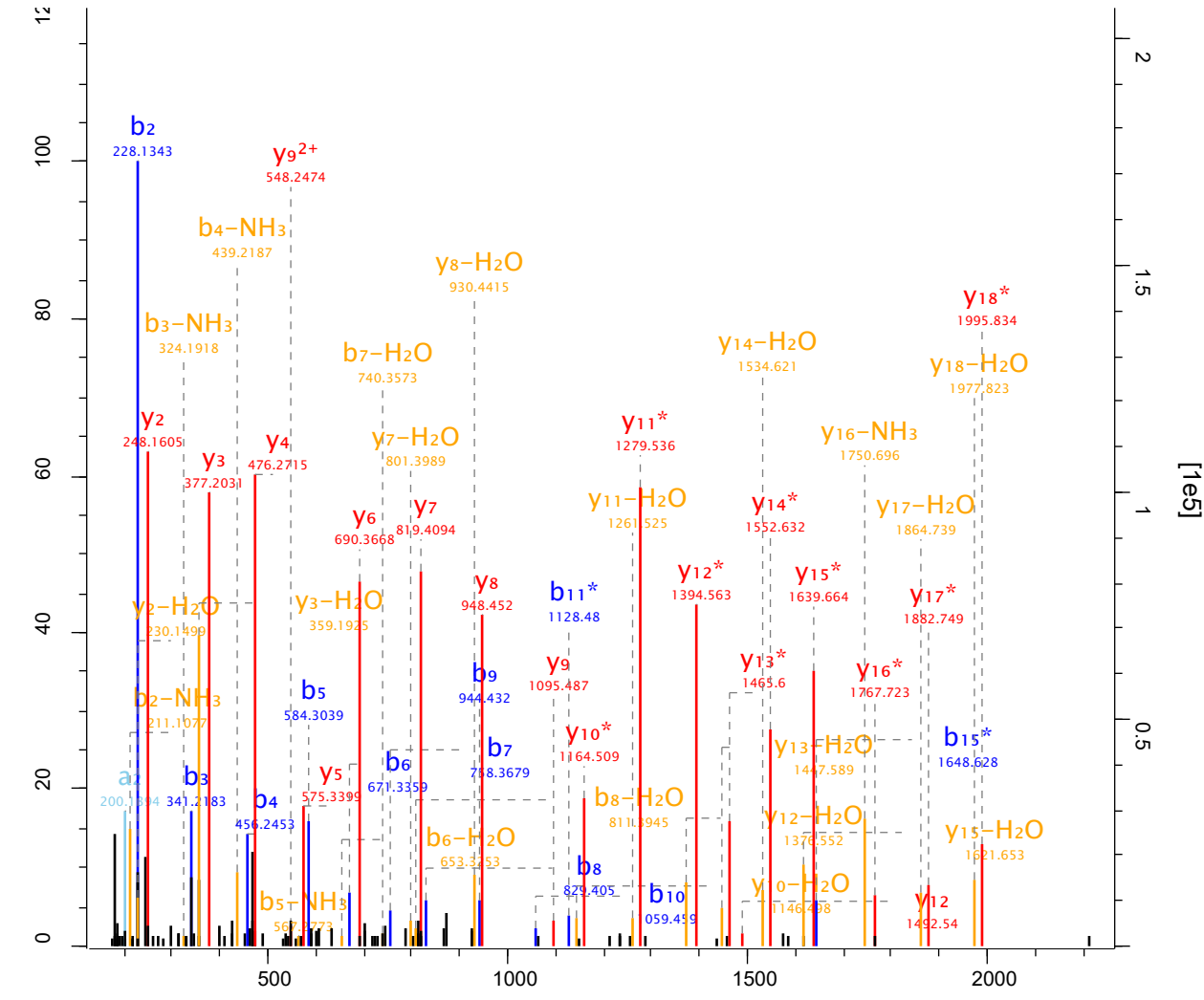


- S T P S G P G A T T R -

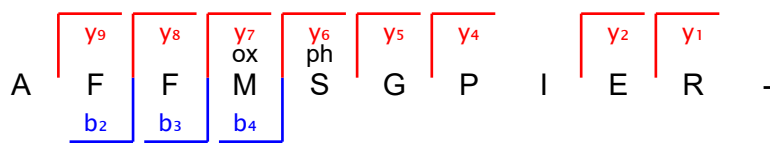
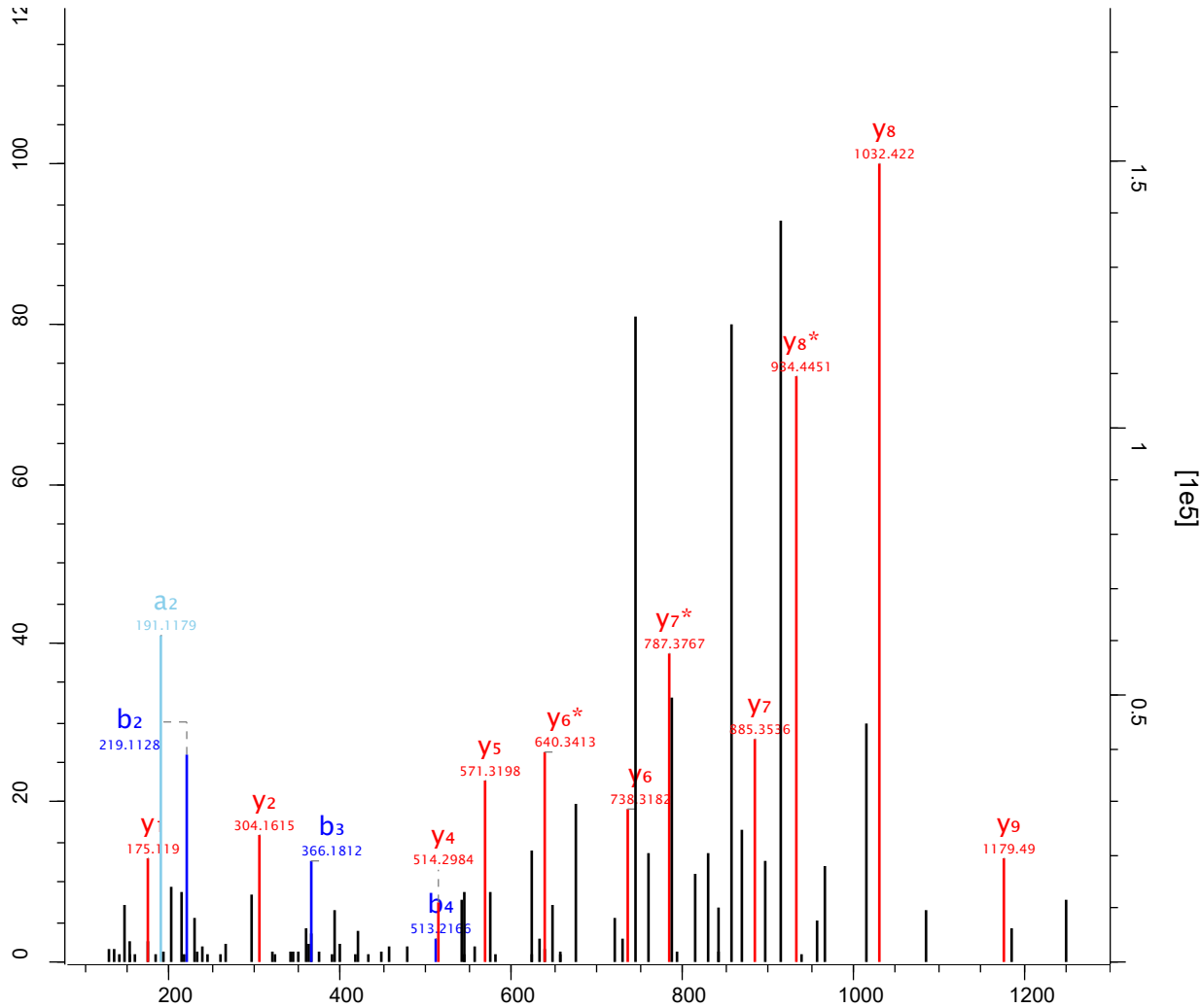
y11*
y10
y9
y8
y7
y6
y5
y4
y3
y2
y1

b2
b3
b4*
b6
b9*

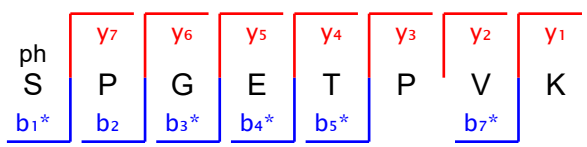
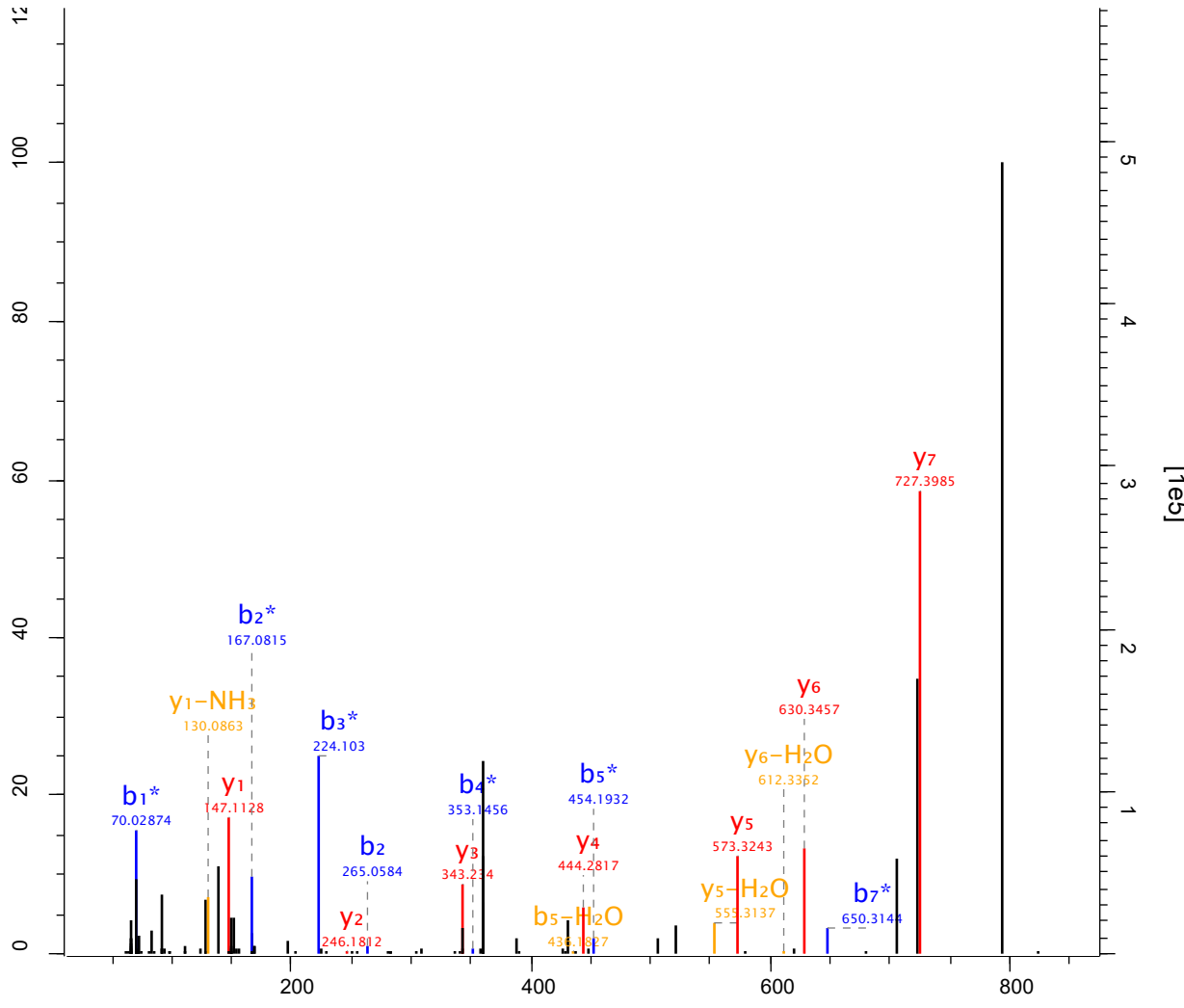
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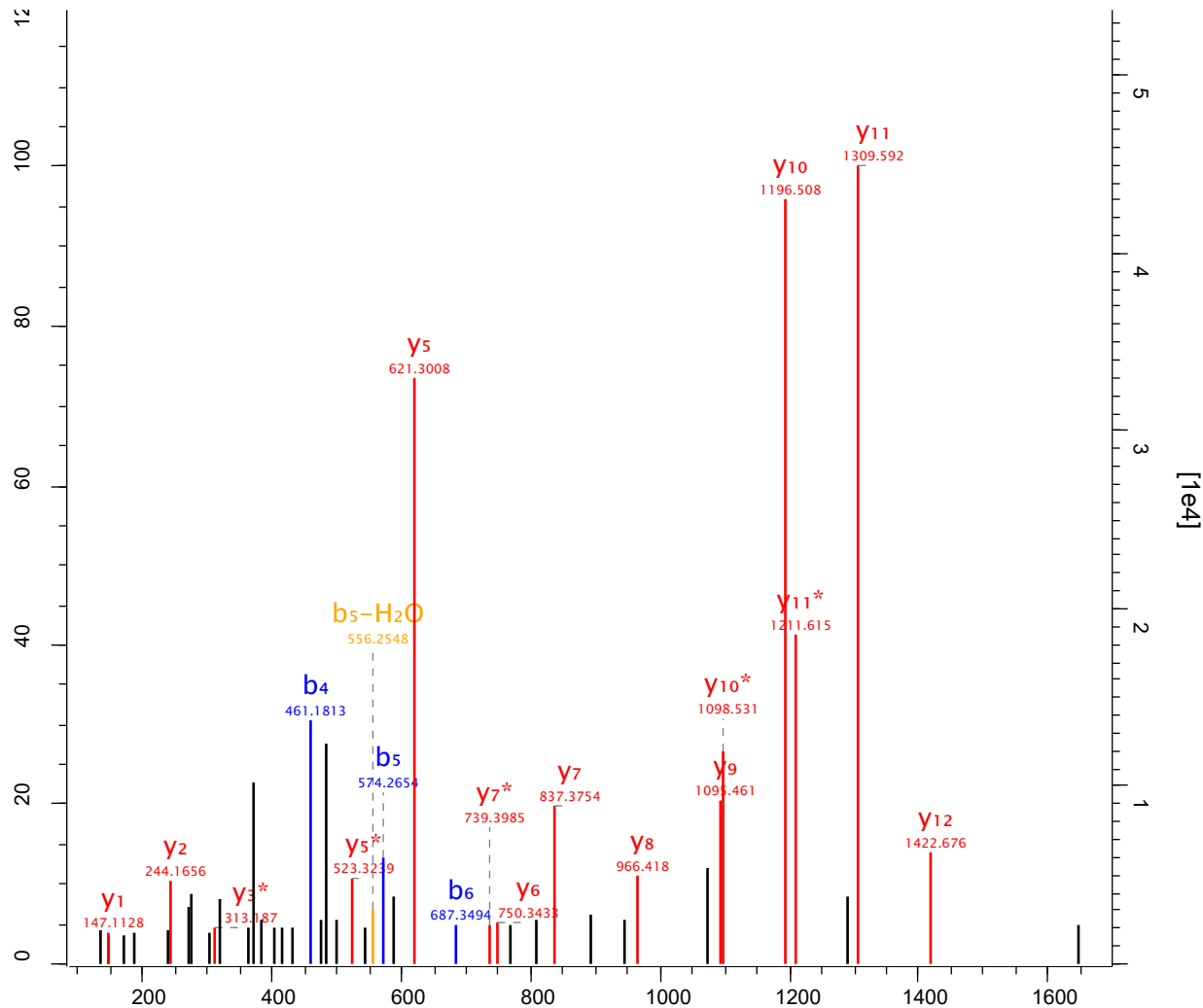
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Raw file Scan Method Score m/z
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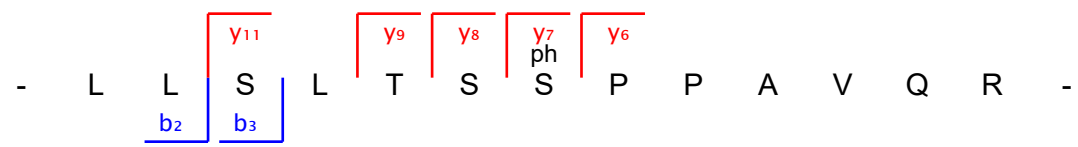
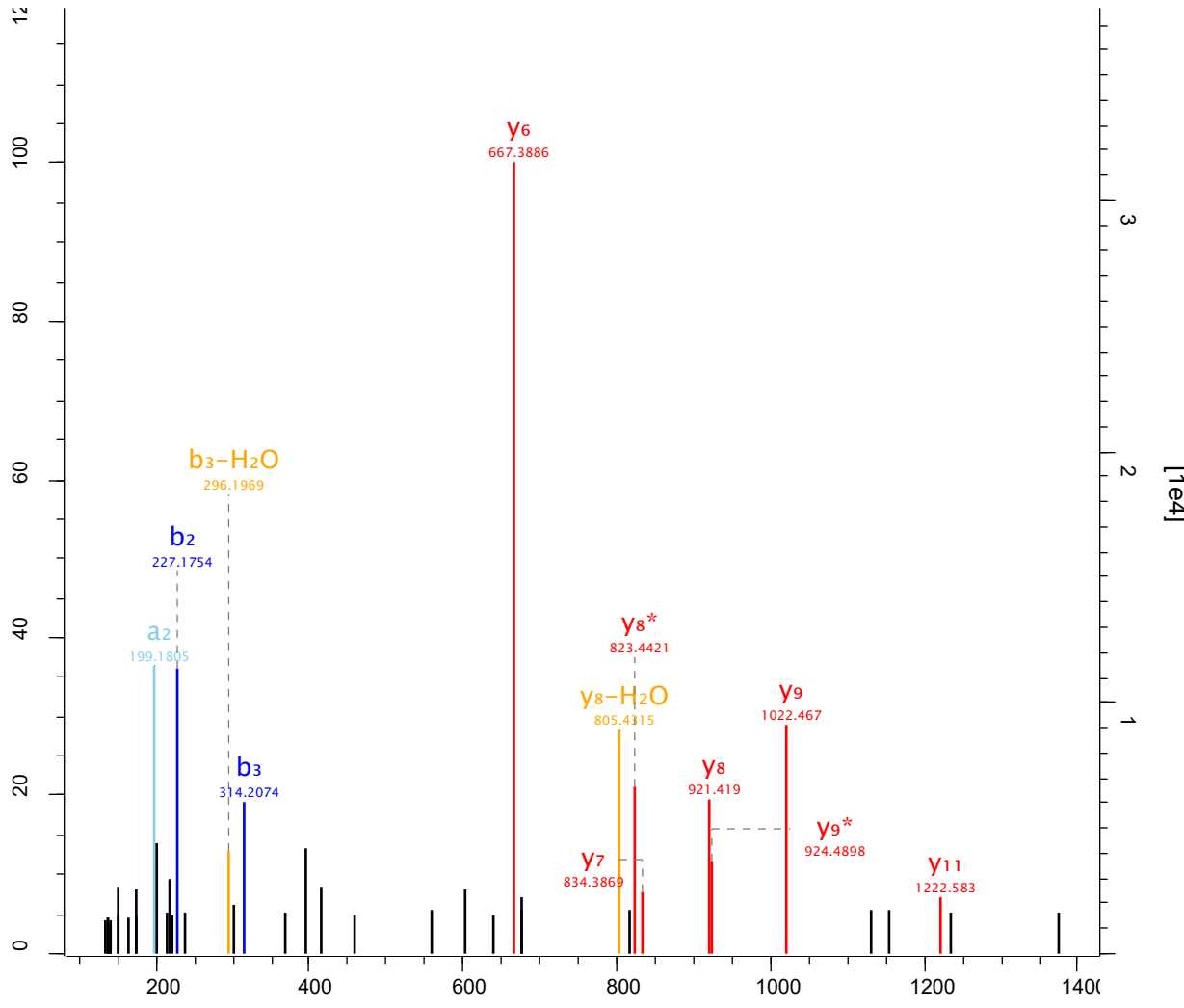


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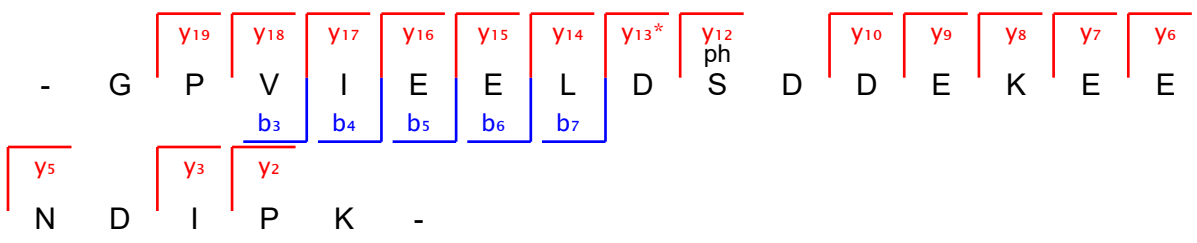
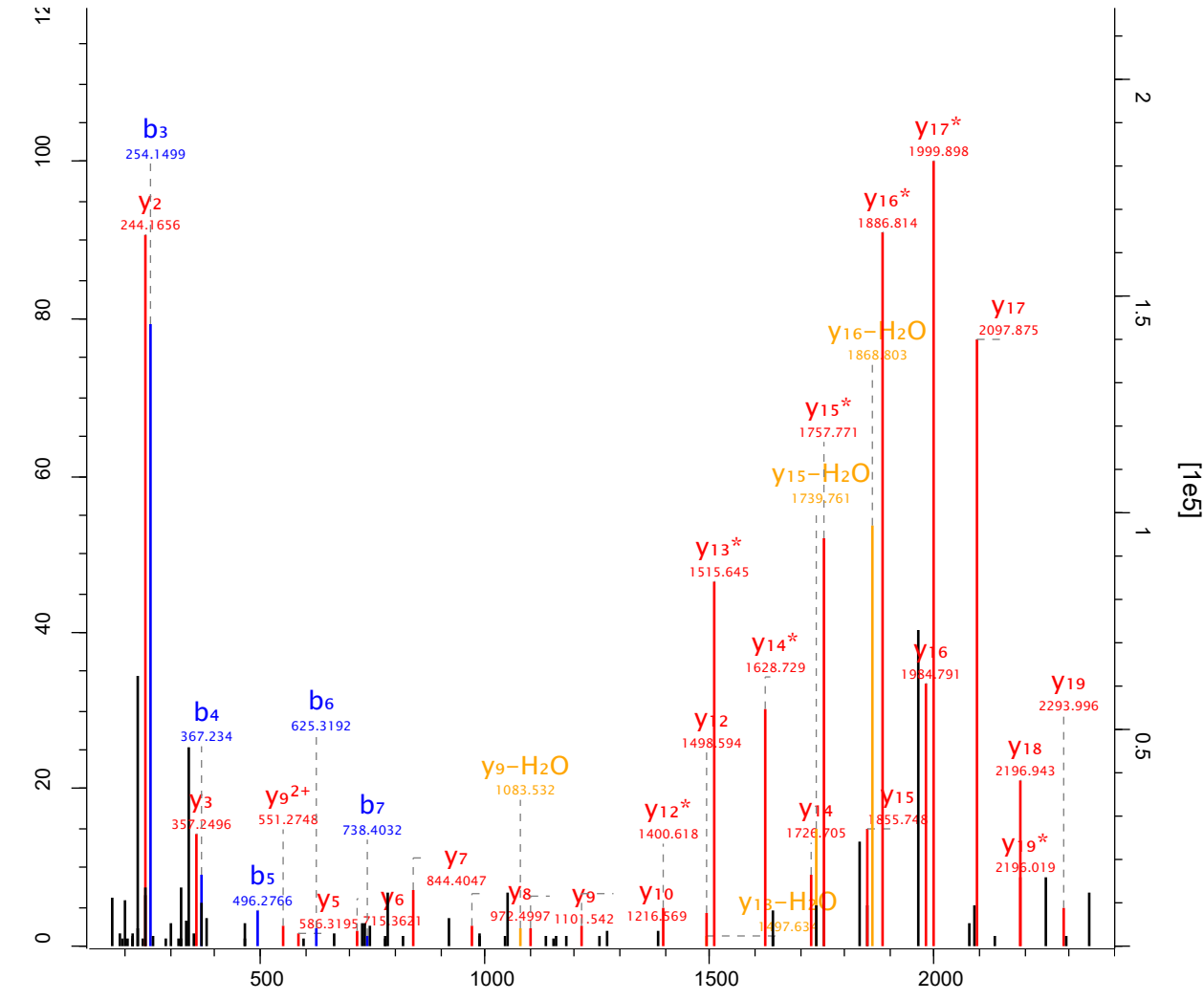


y1
 K - V S N C I L T E E S E P L S P
b4 b5 b6 y12 y11 y10 y9 y8 y7 y6 y5 y3* y2

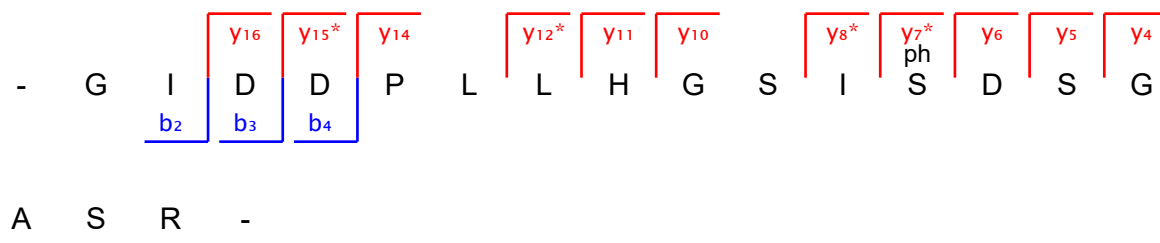
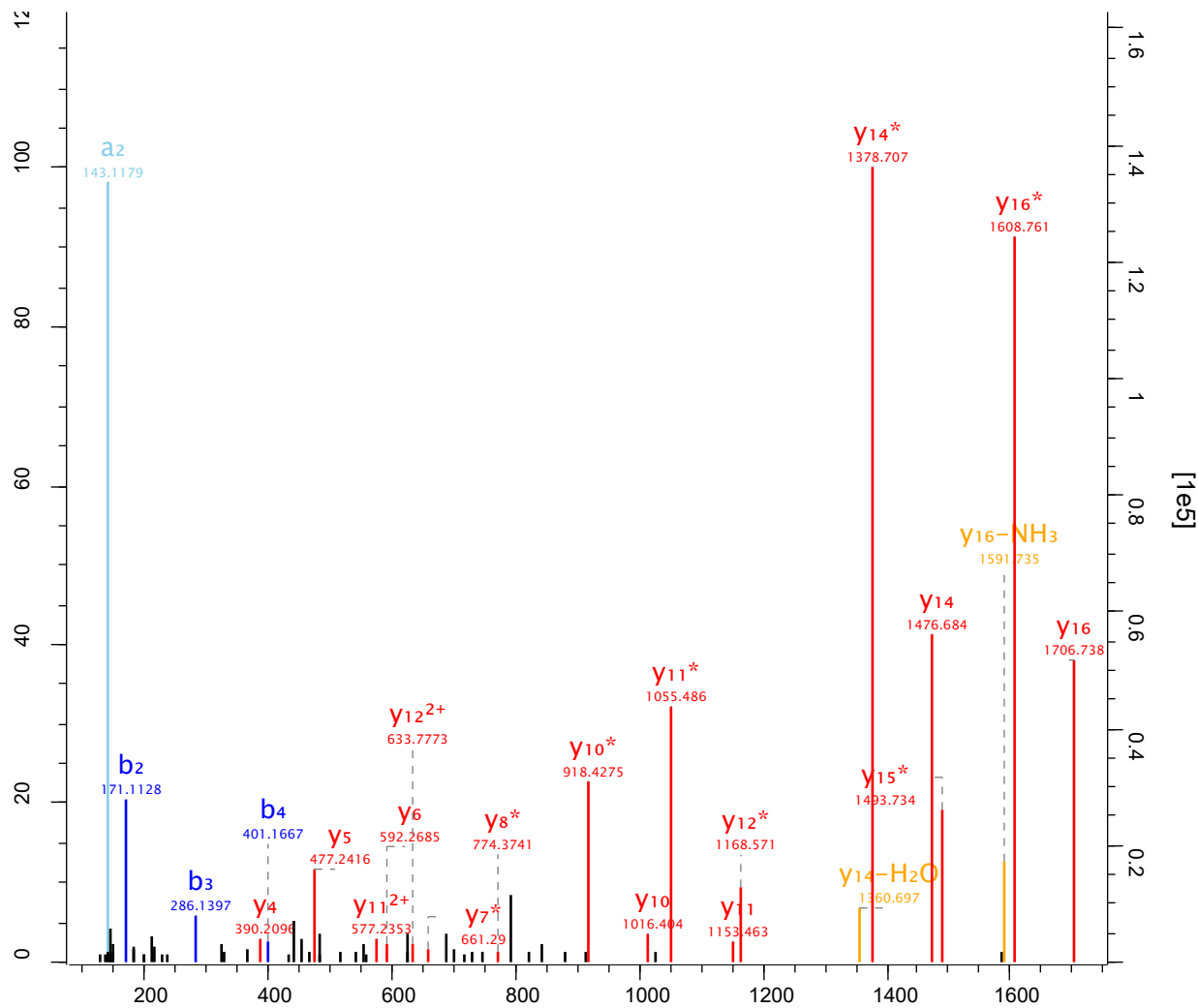
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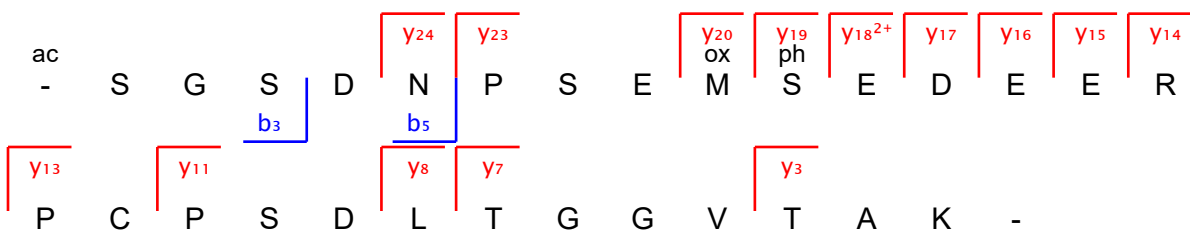
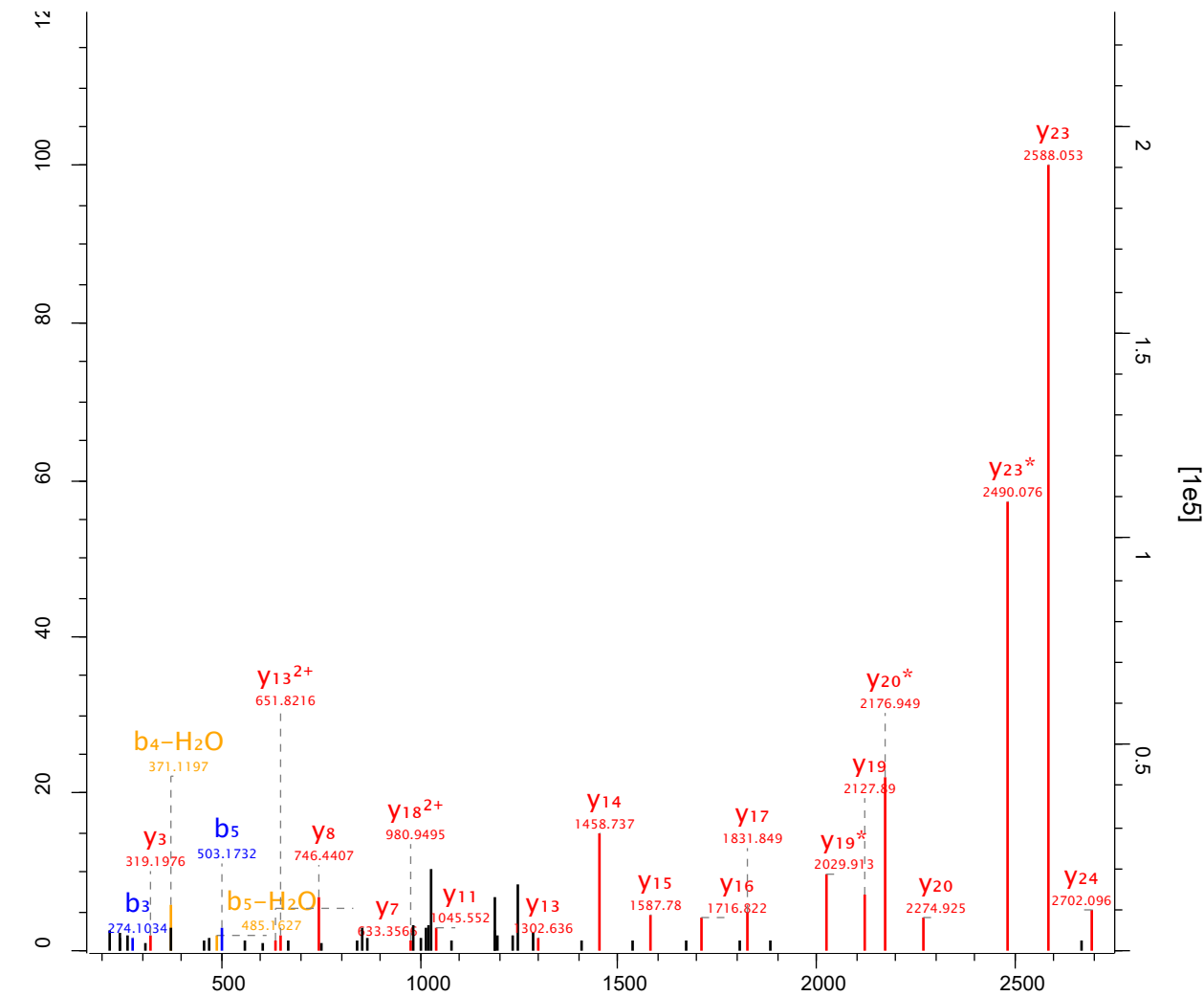
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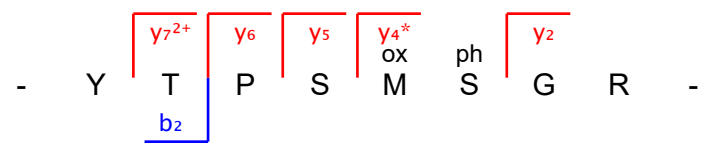
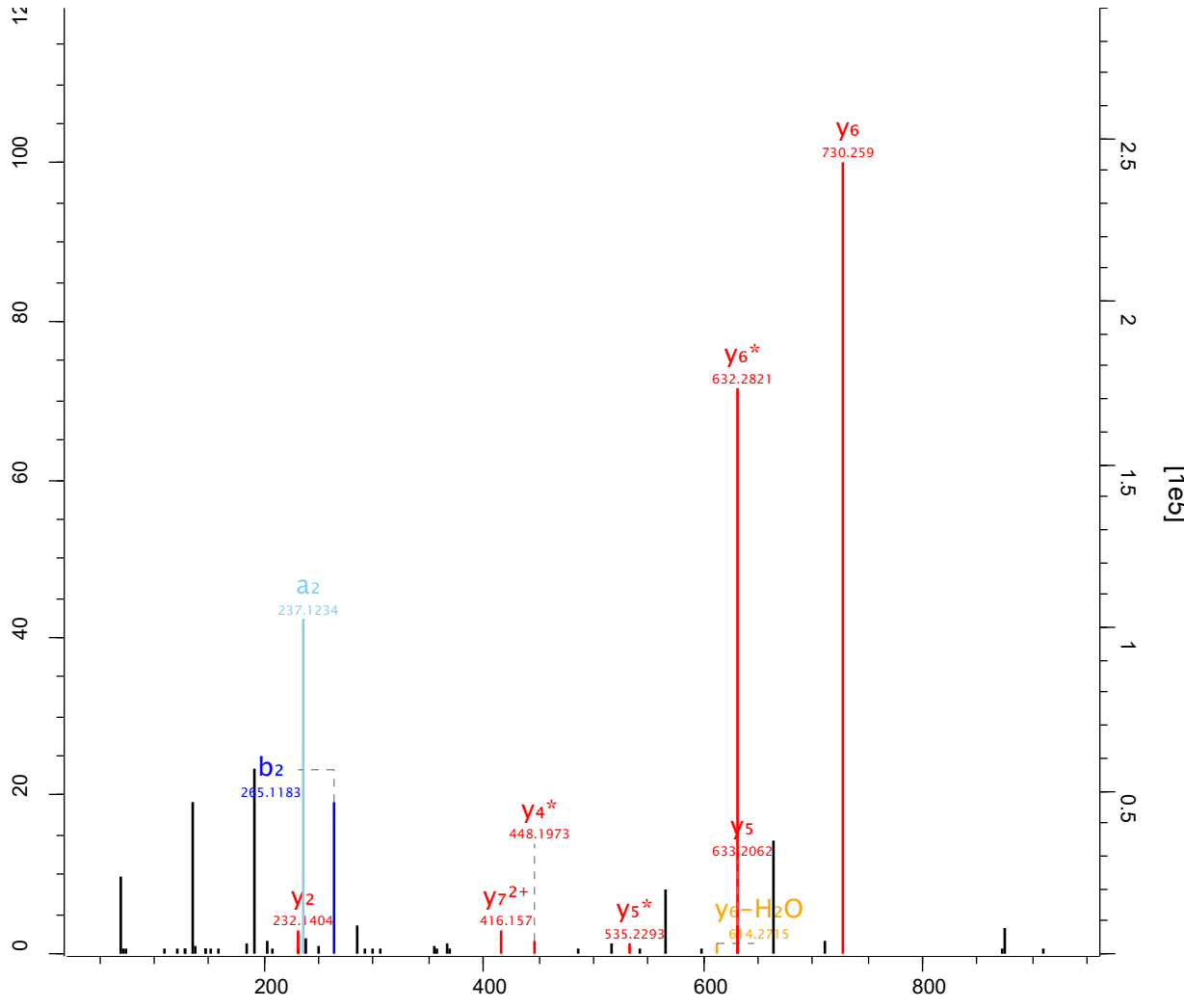
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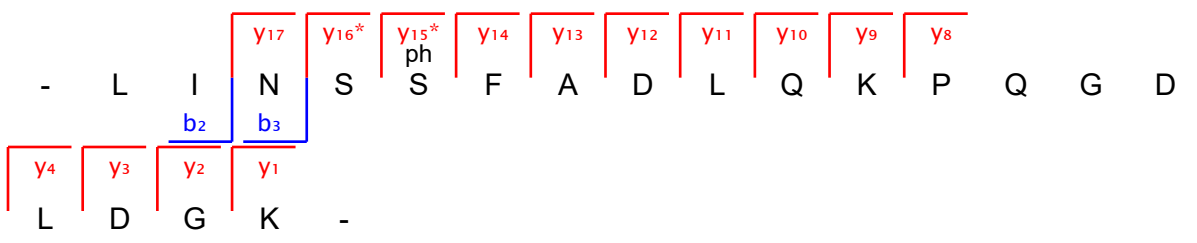
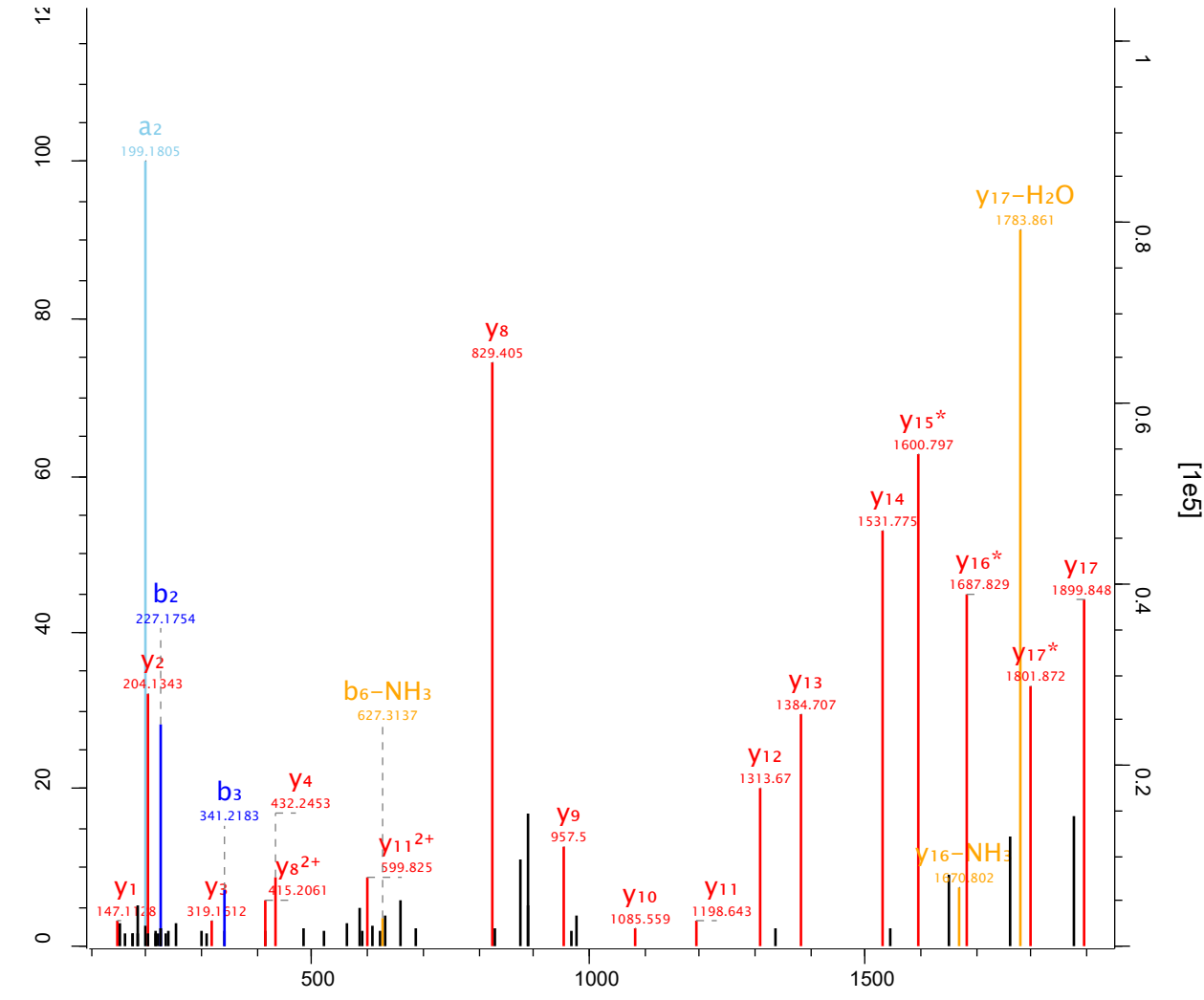
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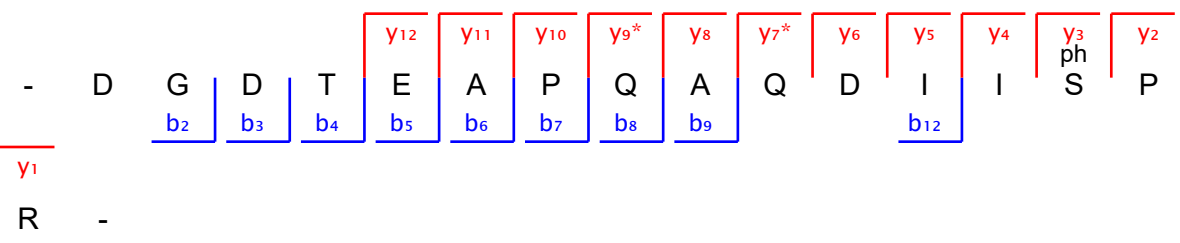
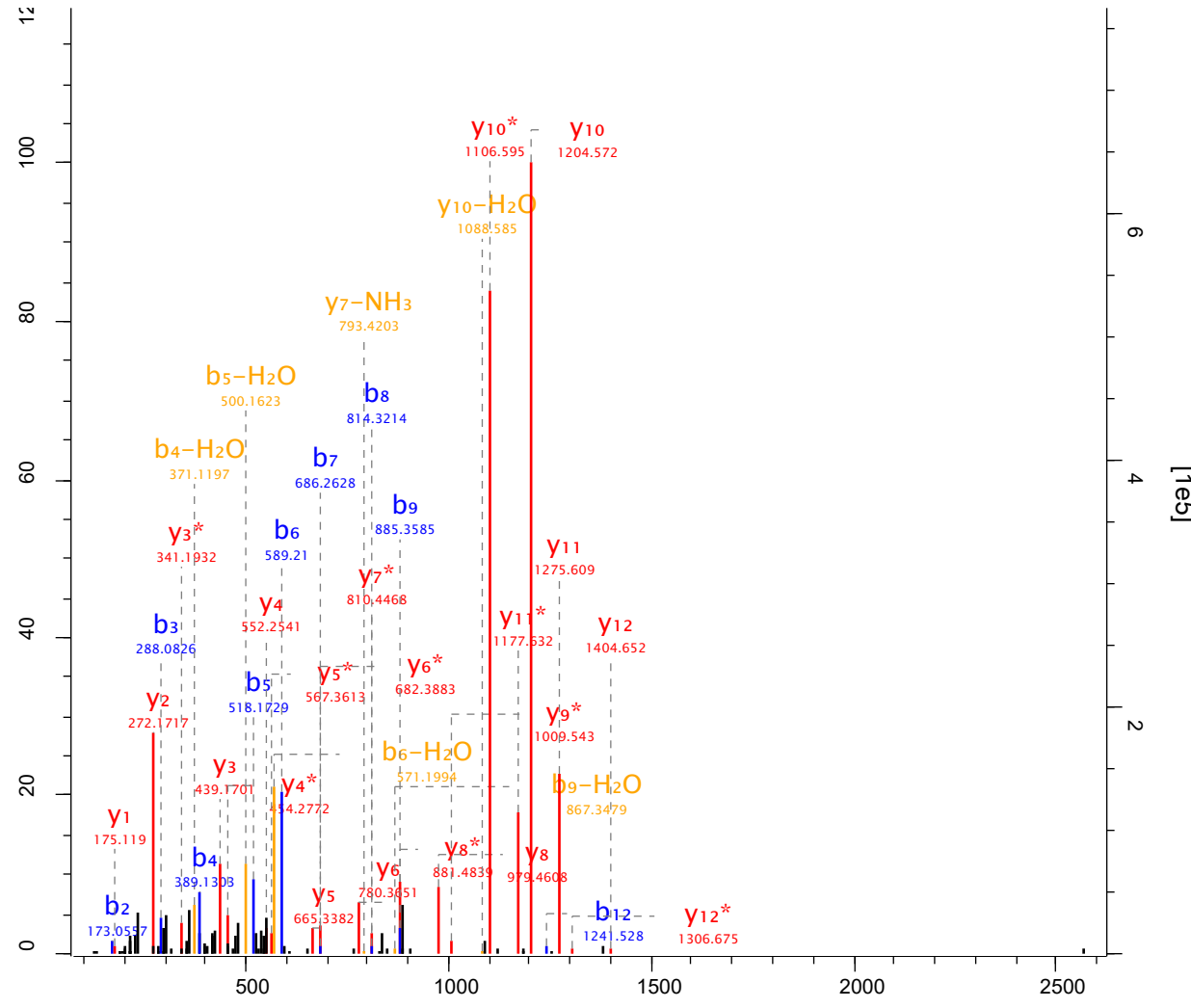
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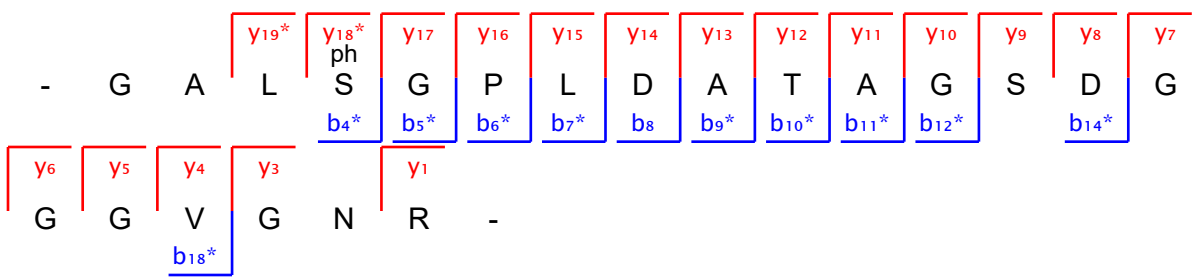
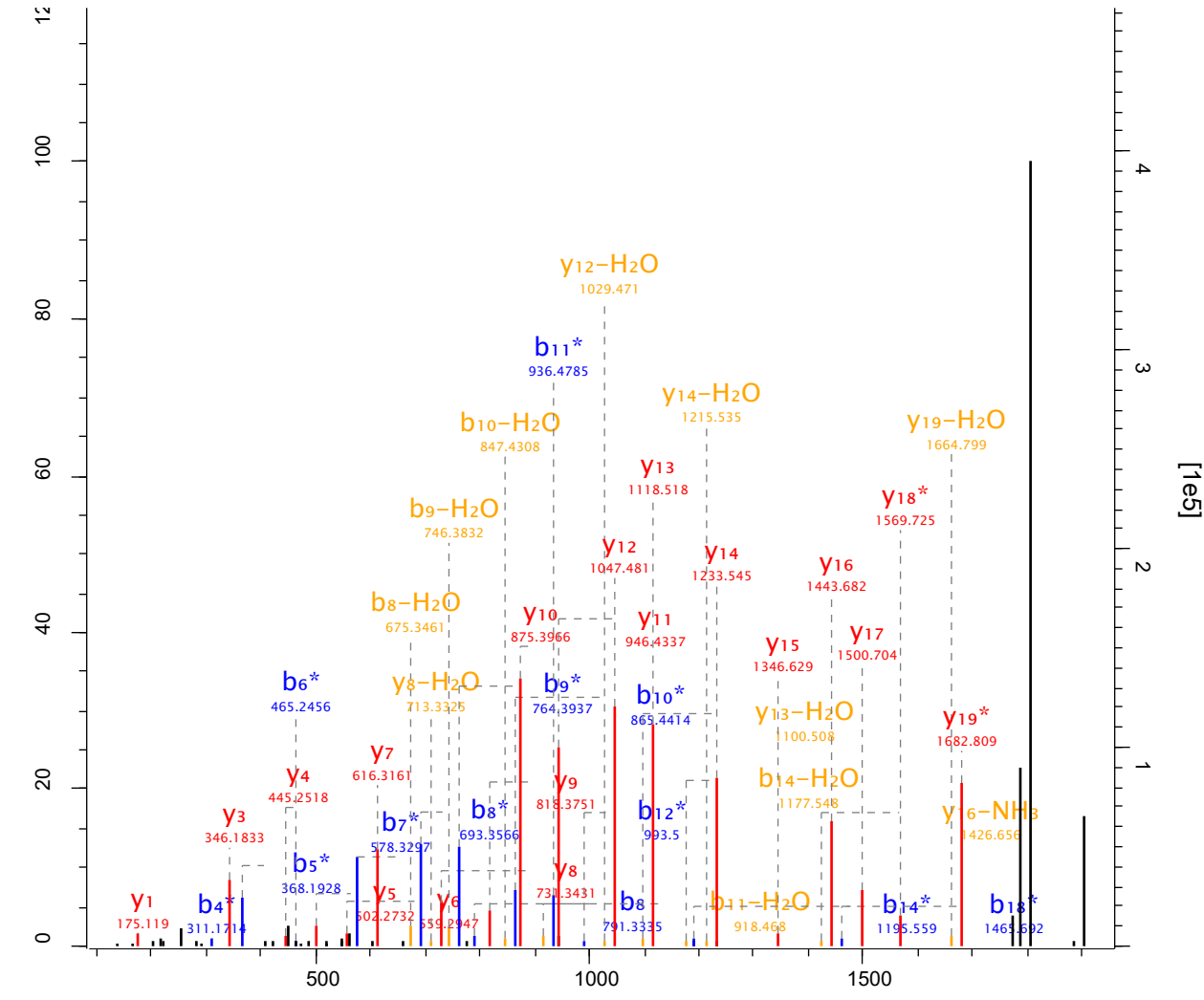
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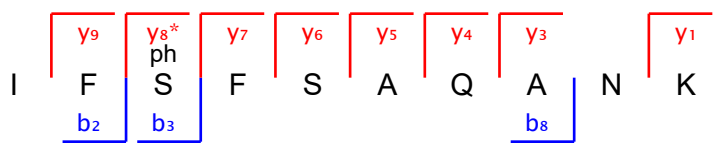
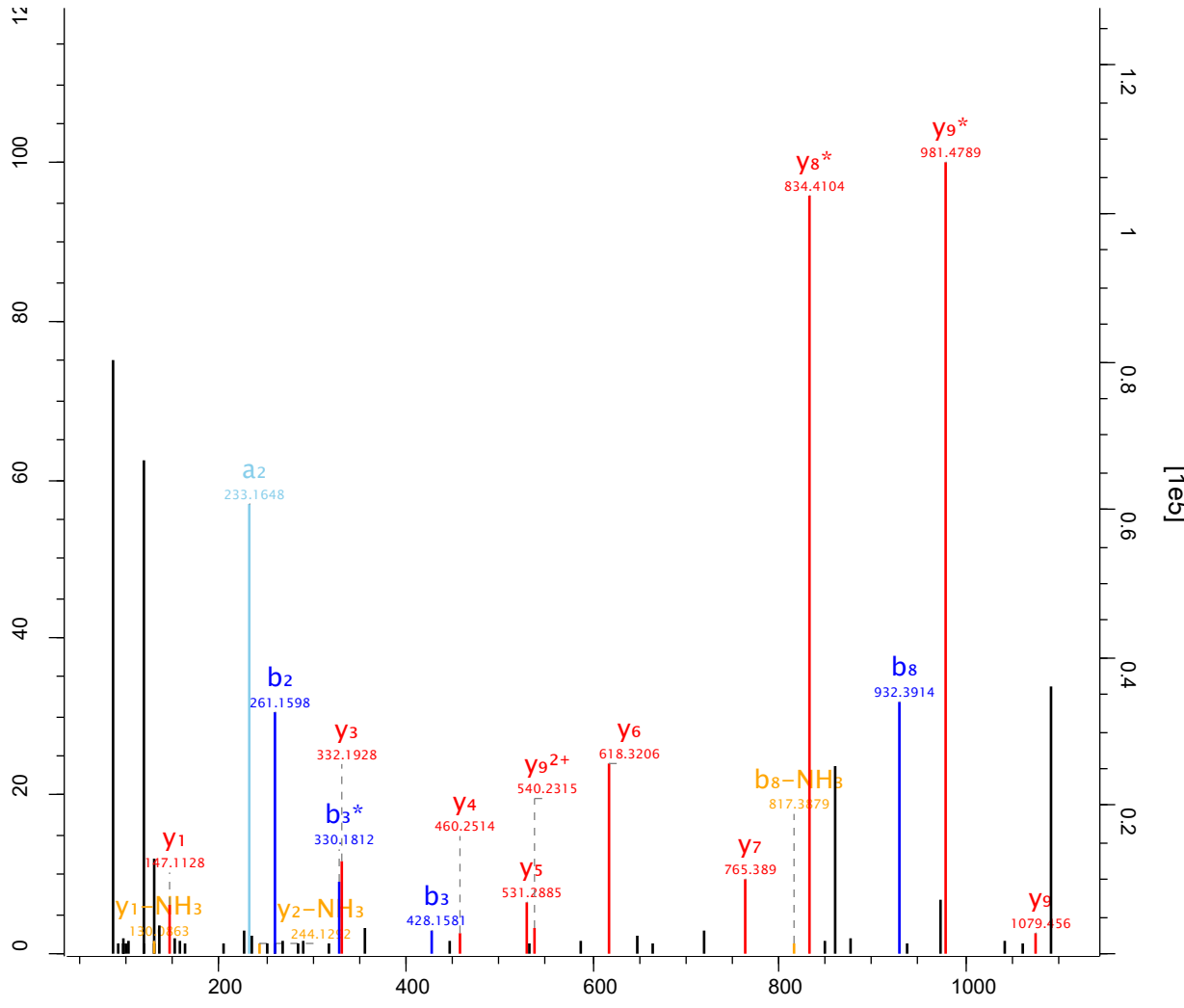
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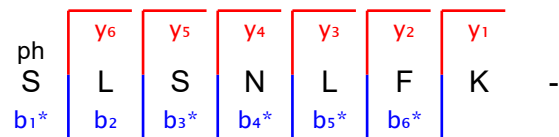
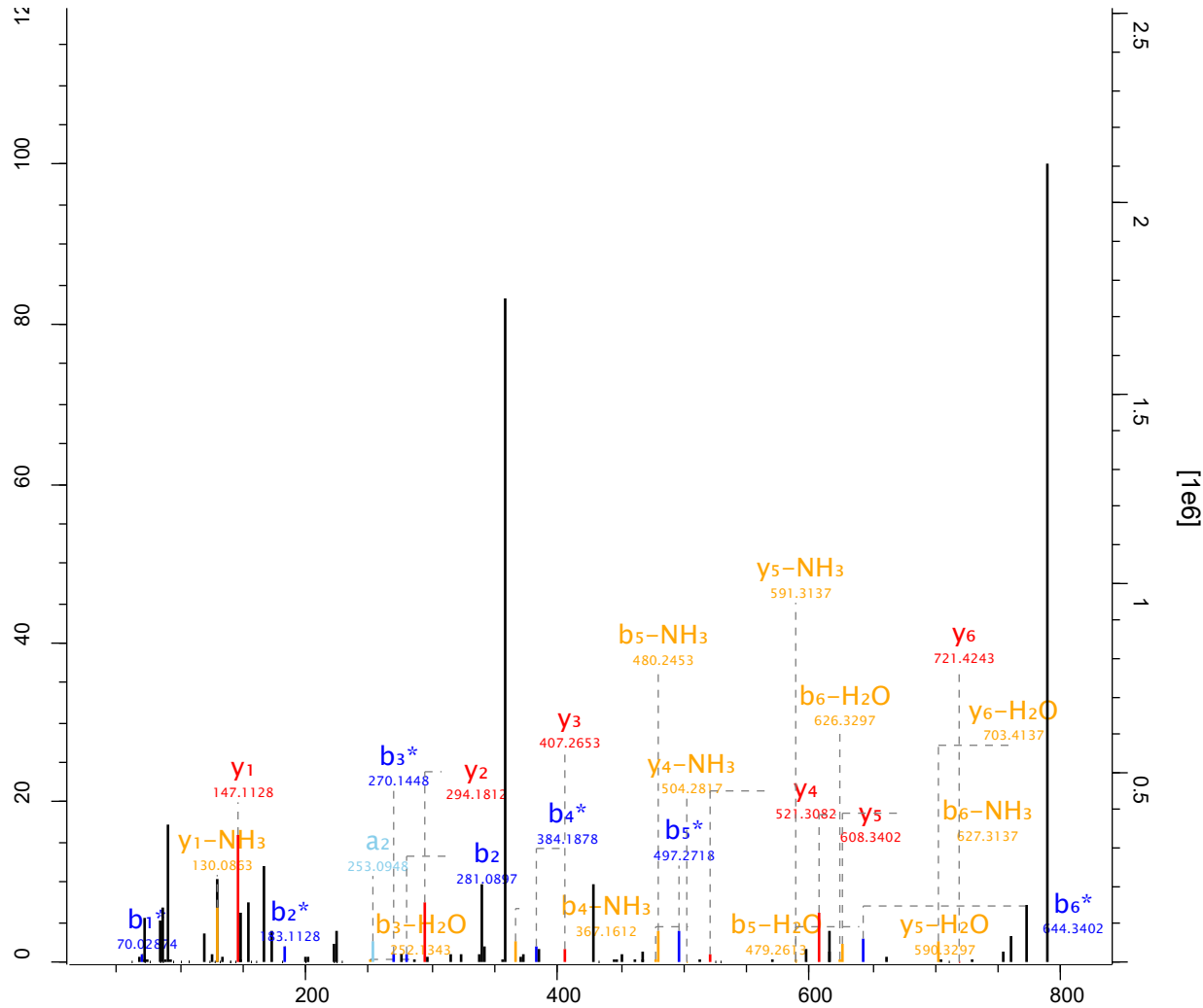
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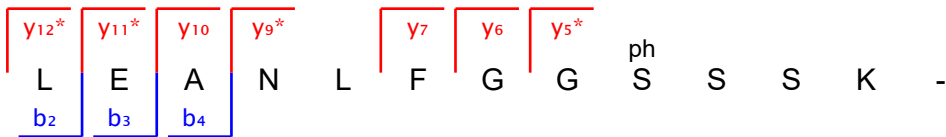
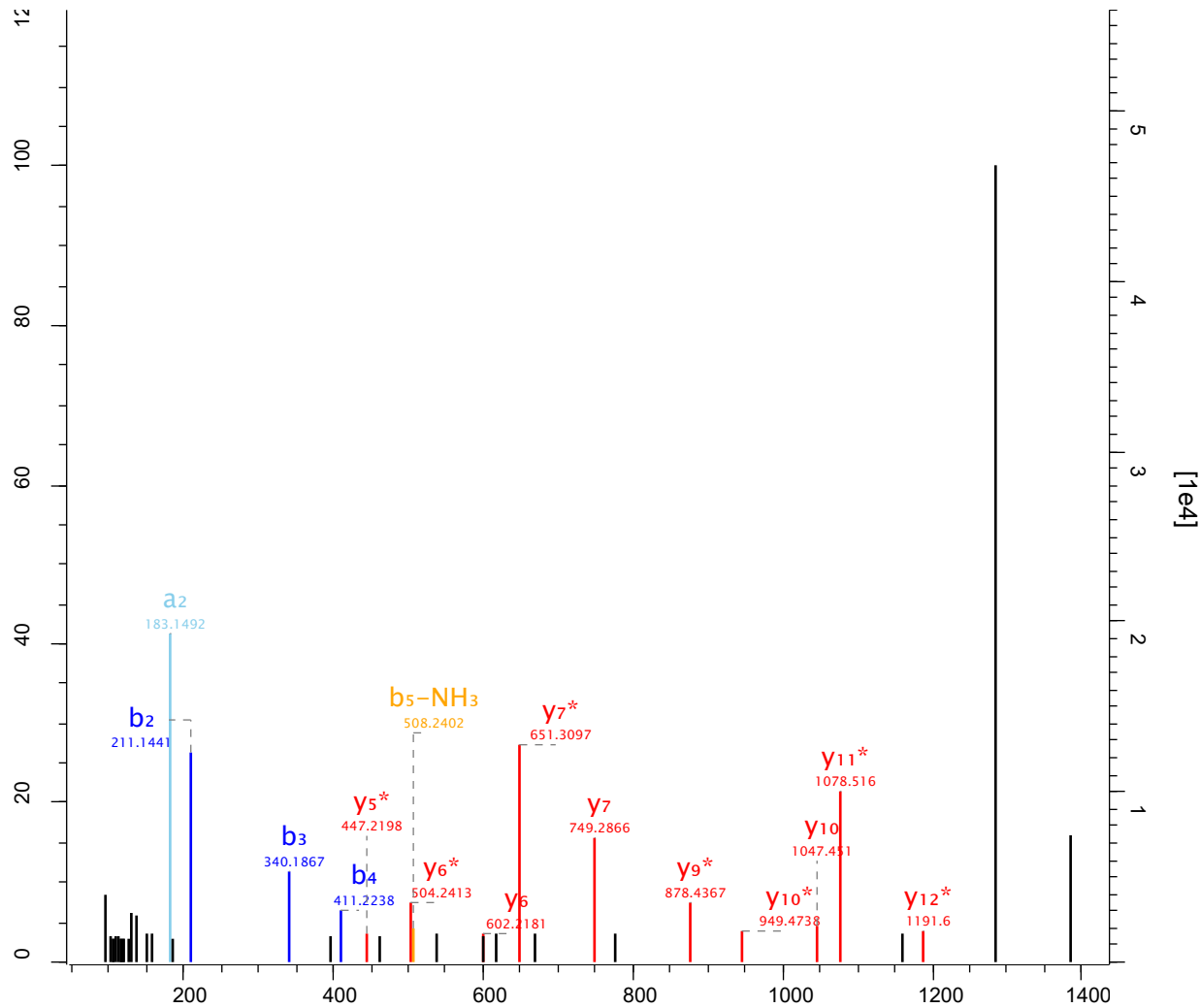
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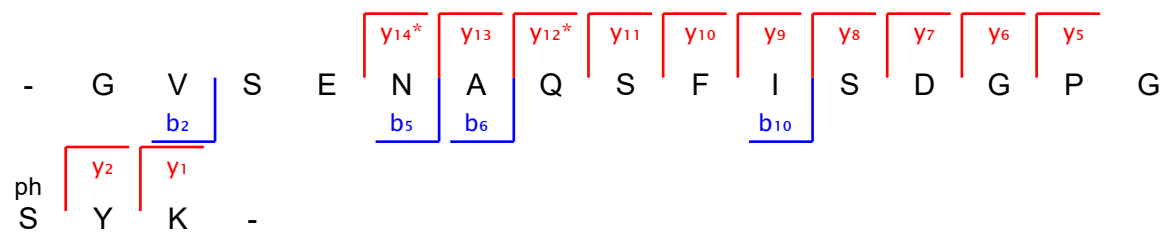
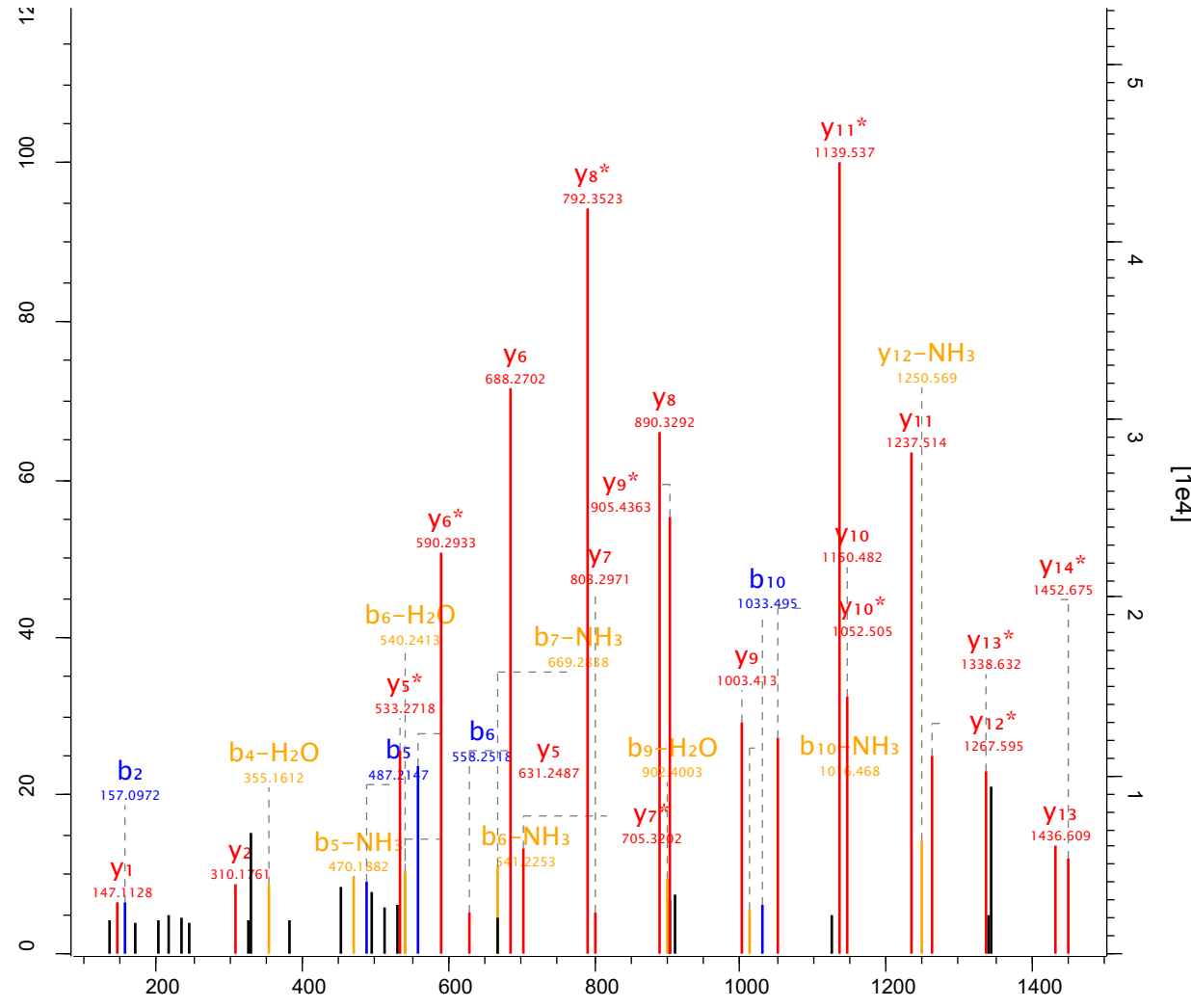
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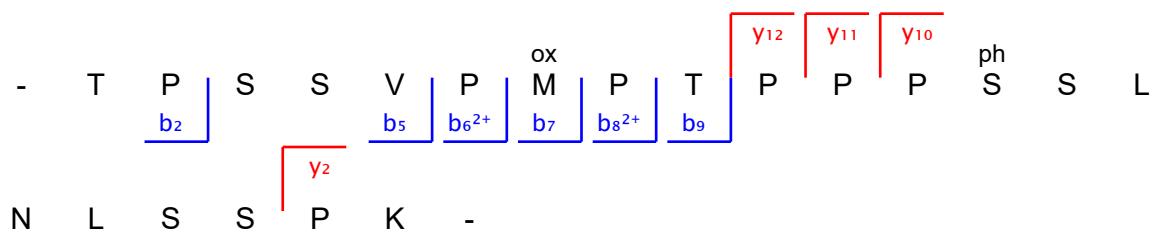
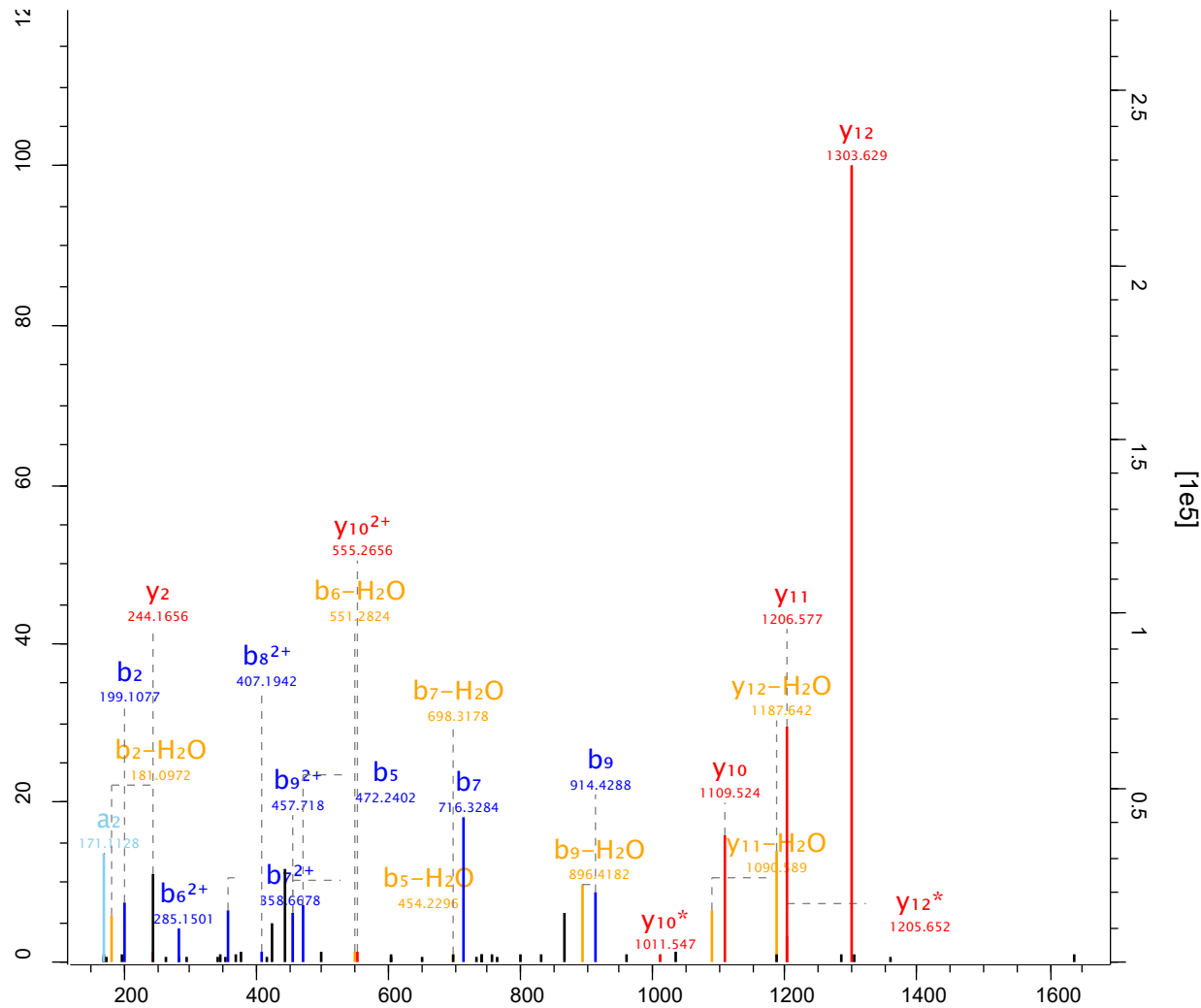
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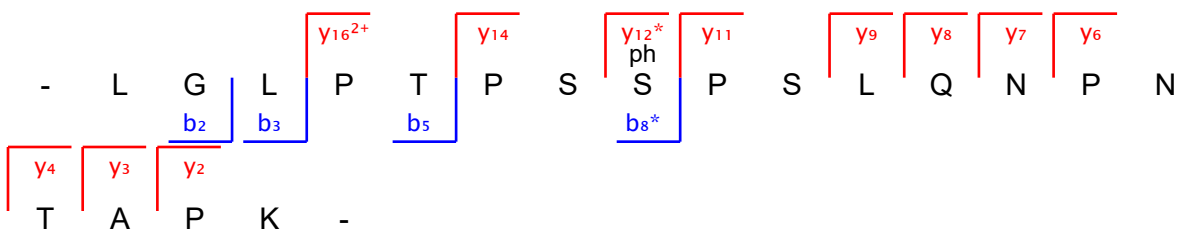
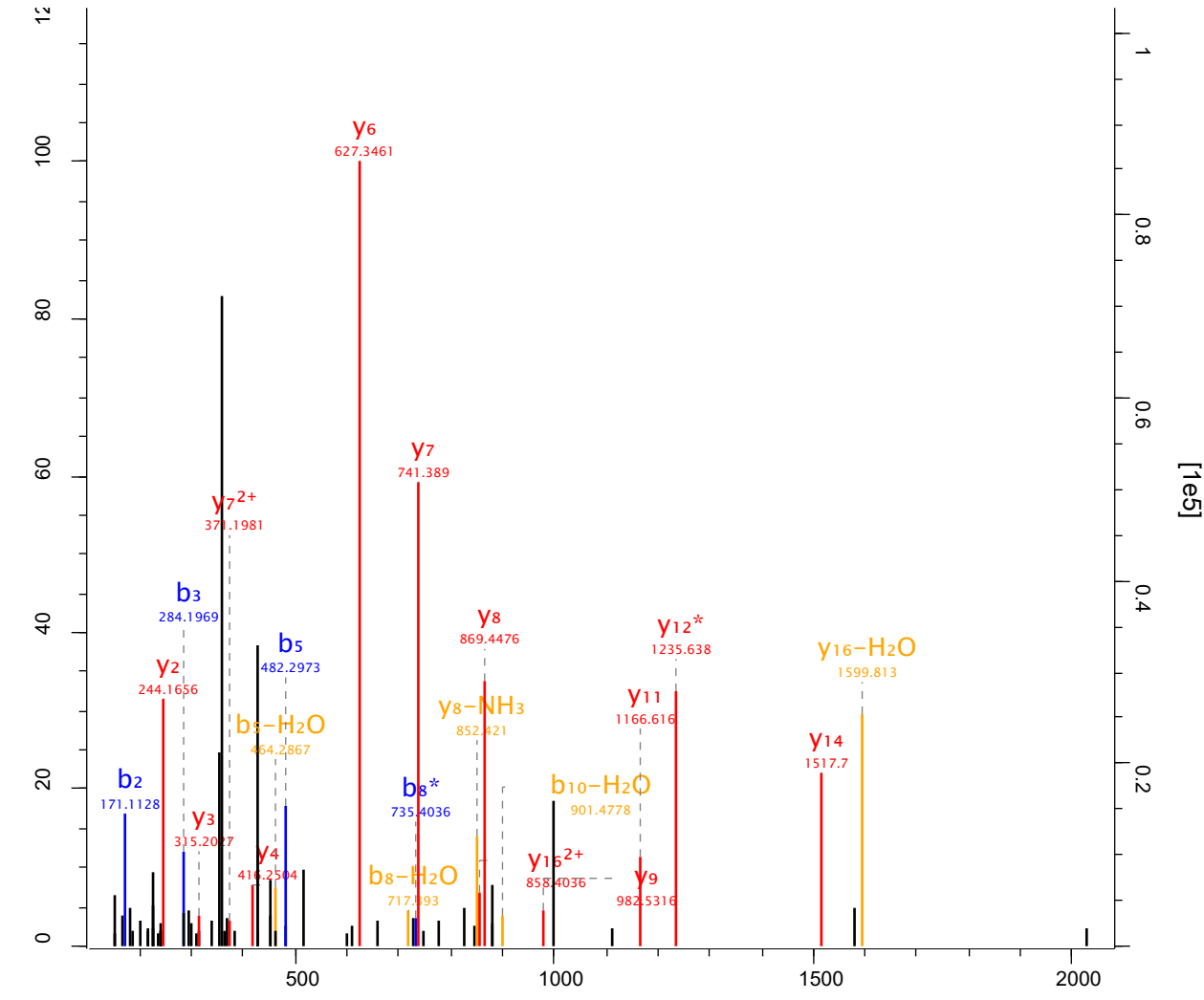
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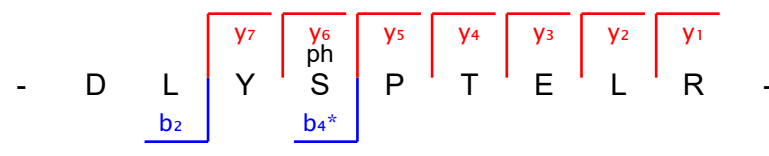
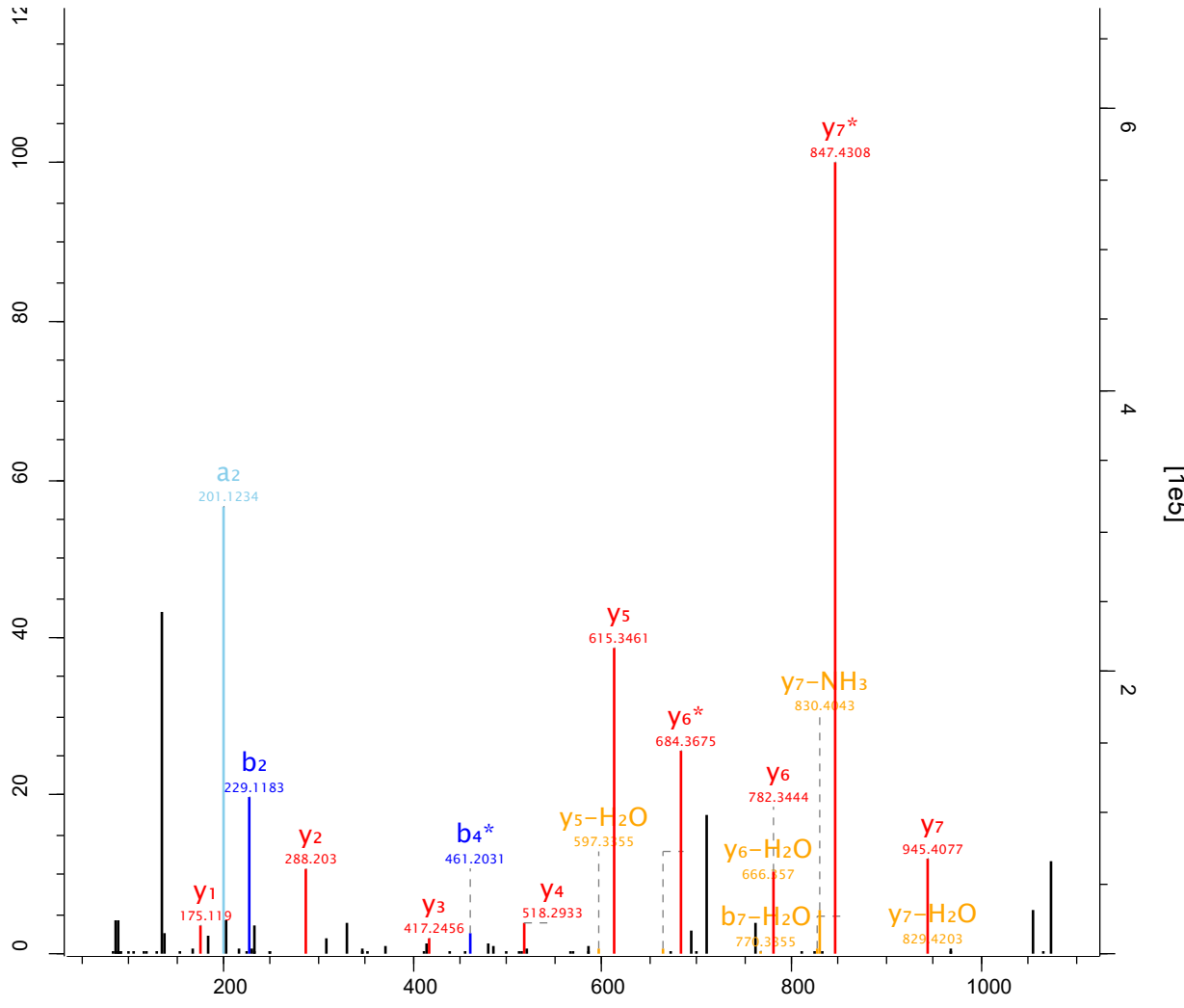
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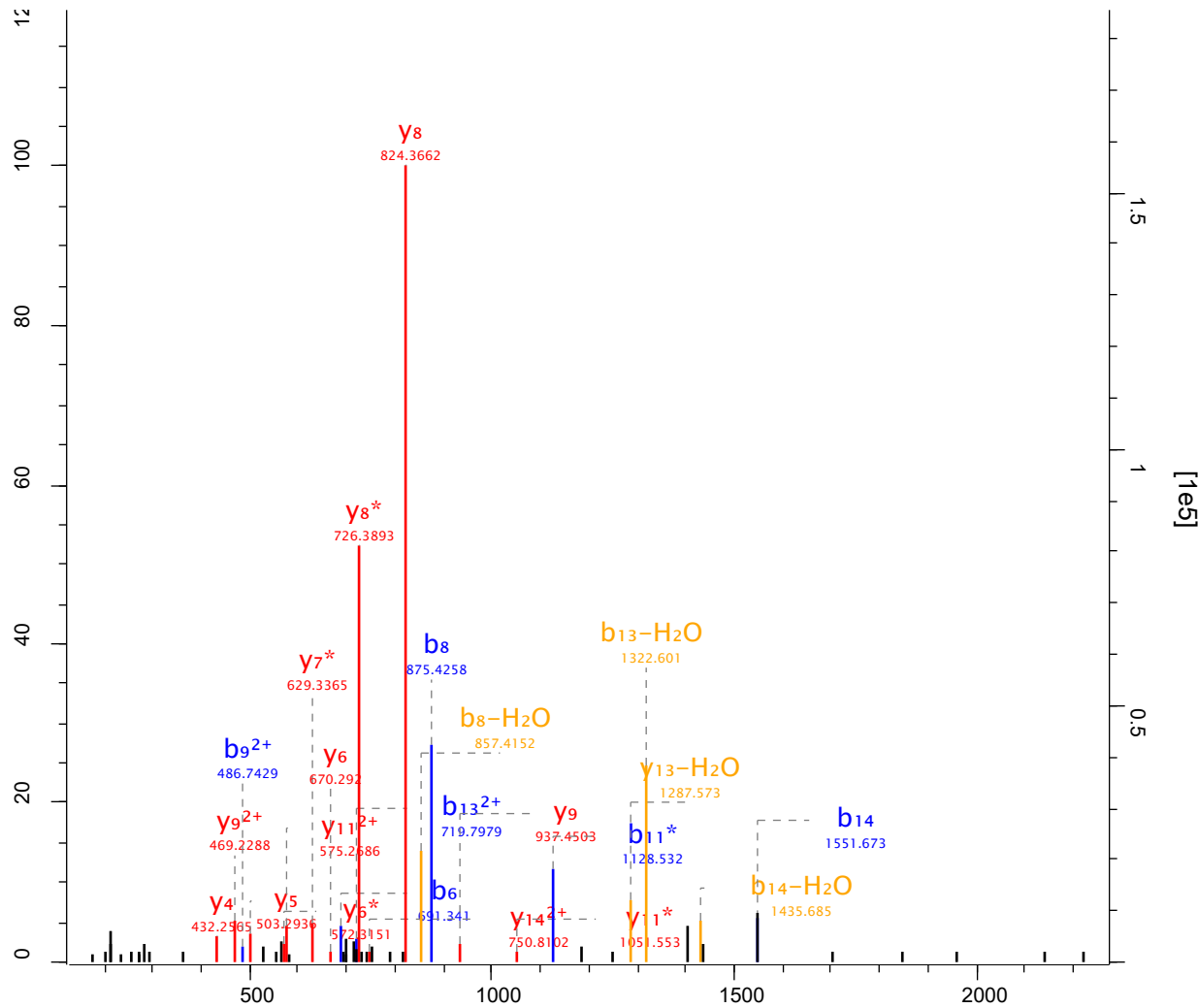
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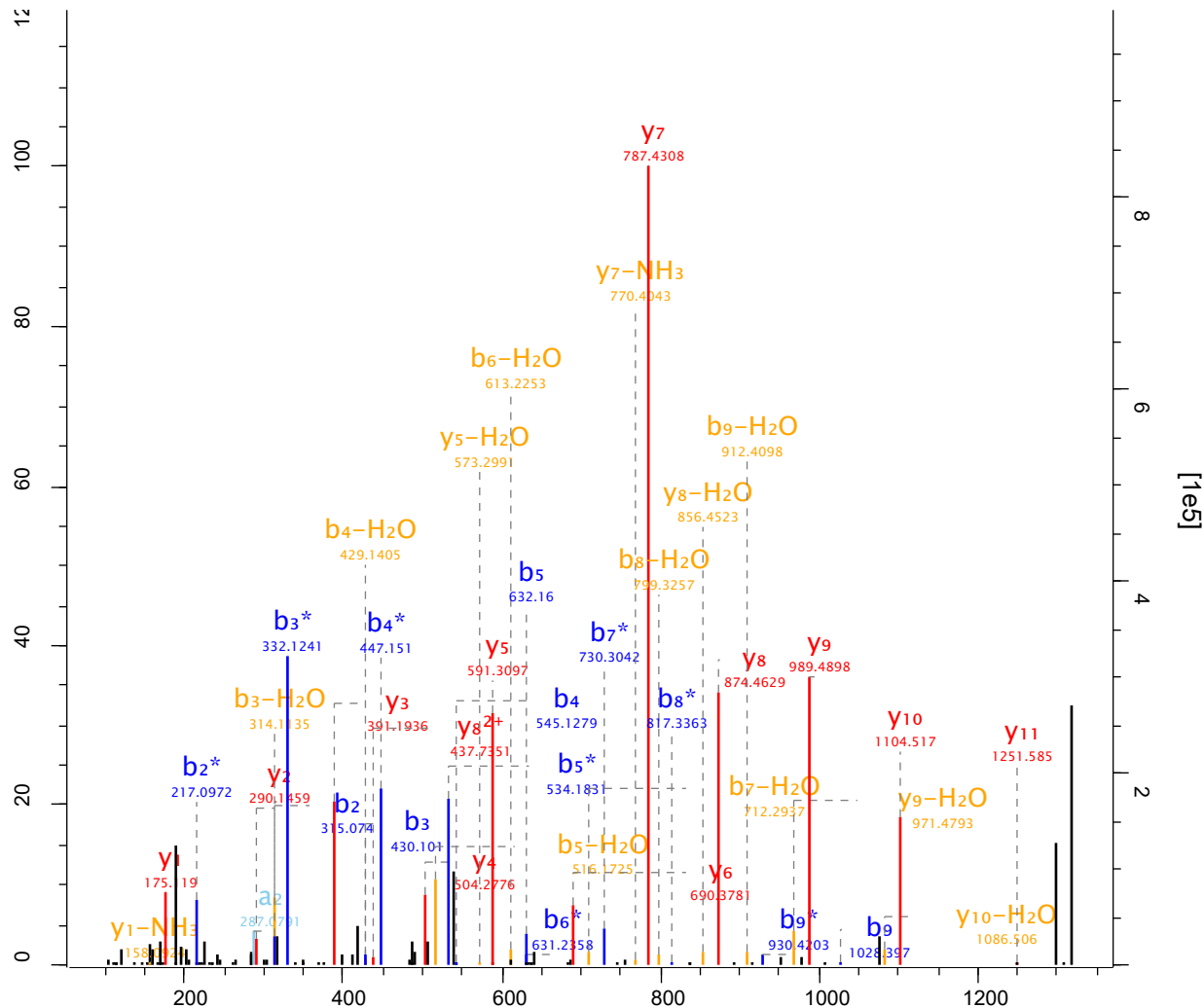


Raw file Scan Method Score m/z
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- V L E H P D P S P S ph S P D L P
 b6 b8 b9 2+ b11* b13 2+ b14 y14 2+ y11* y9 y8
 y7* y6 ph y5 y4
 G S A G S L R -

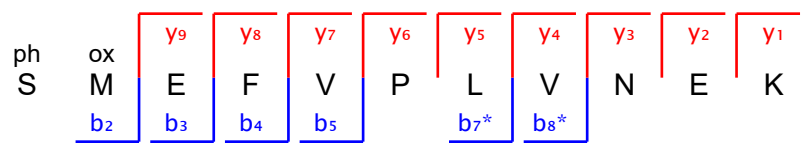
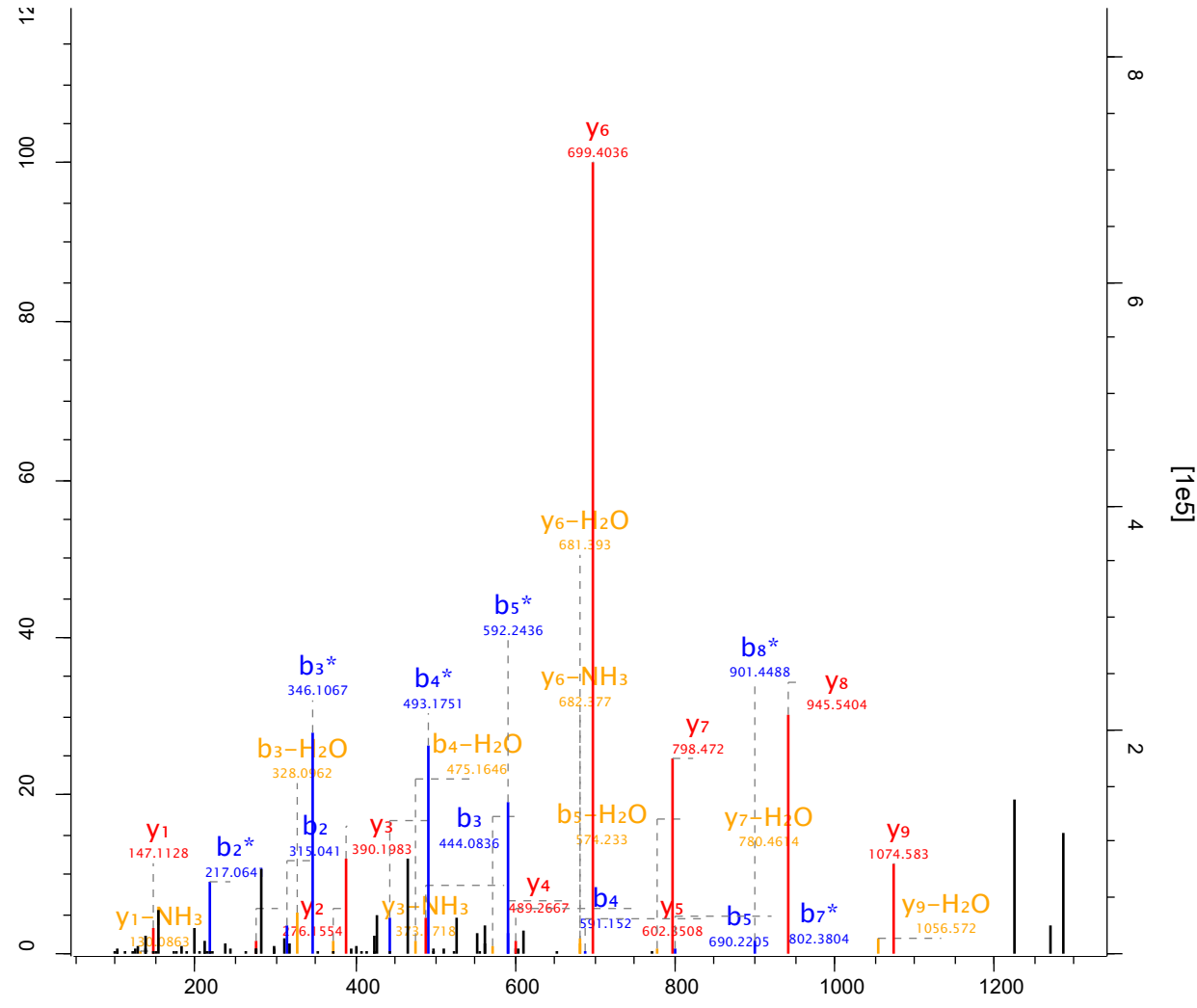
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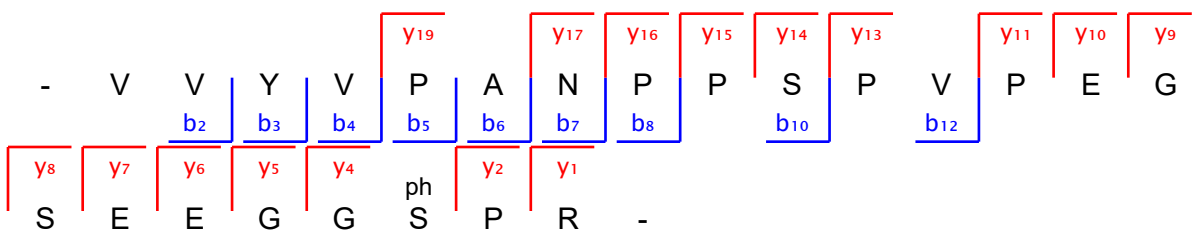
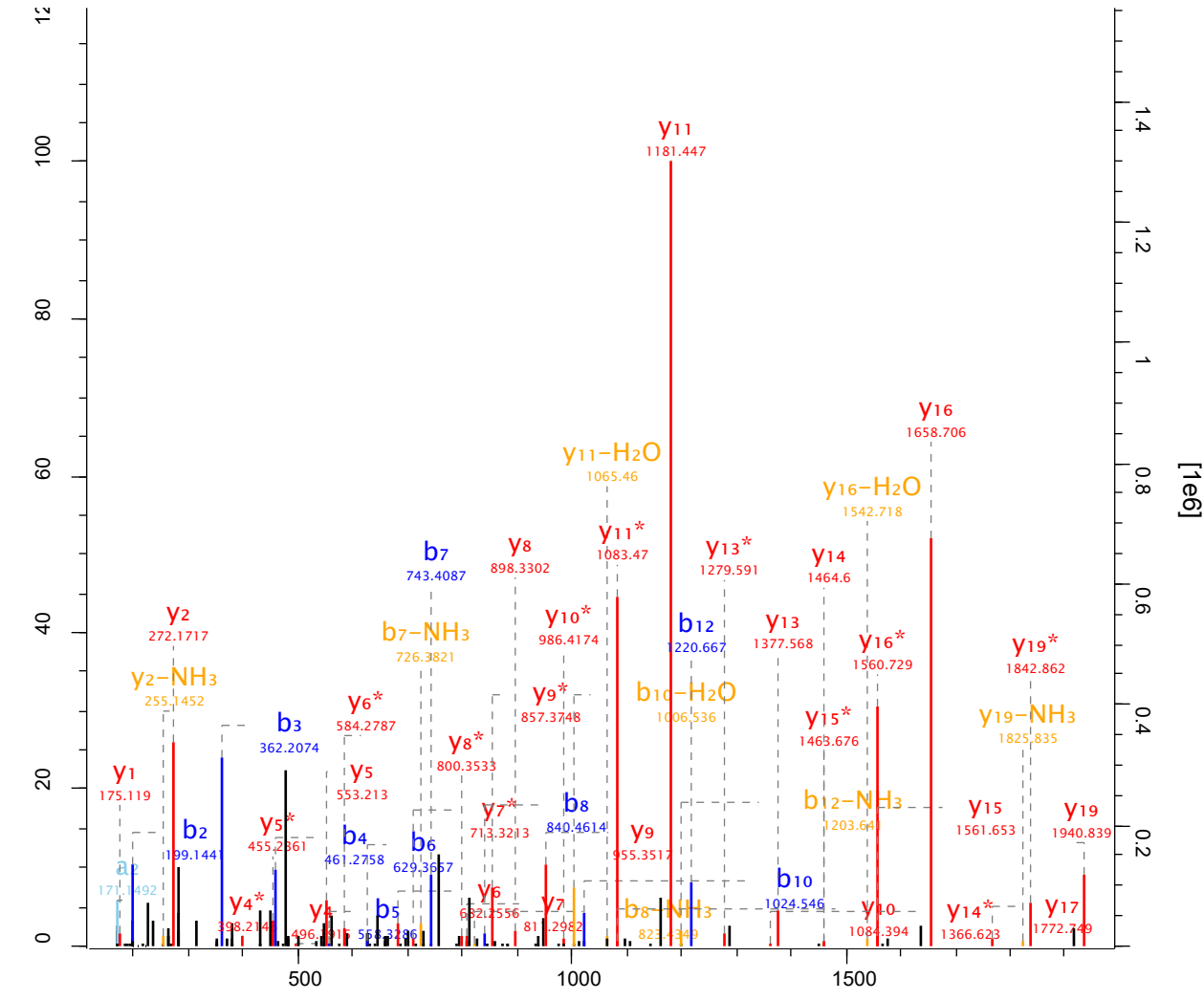
ph S

y11	y10	y9	y8	y7	y6	y5	y4	y3	y2	y1
F	D	D	S	P	V	S	I	T	D	R
b2	b3	b4	b5	b6*	b7*	b8*	b9			

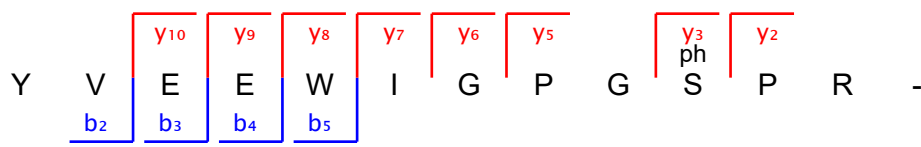
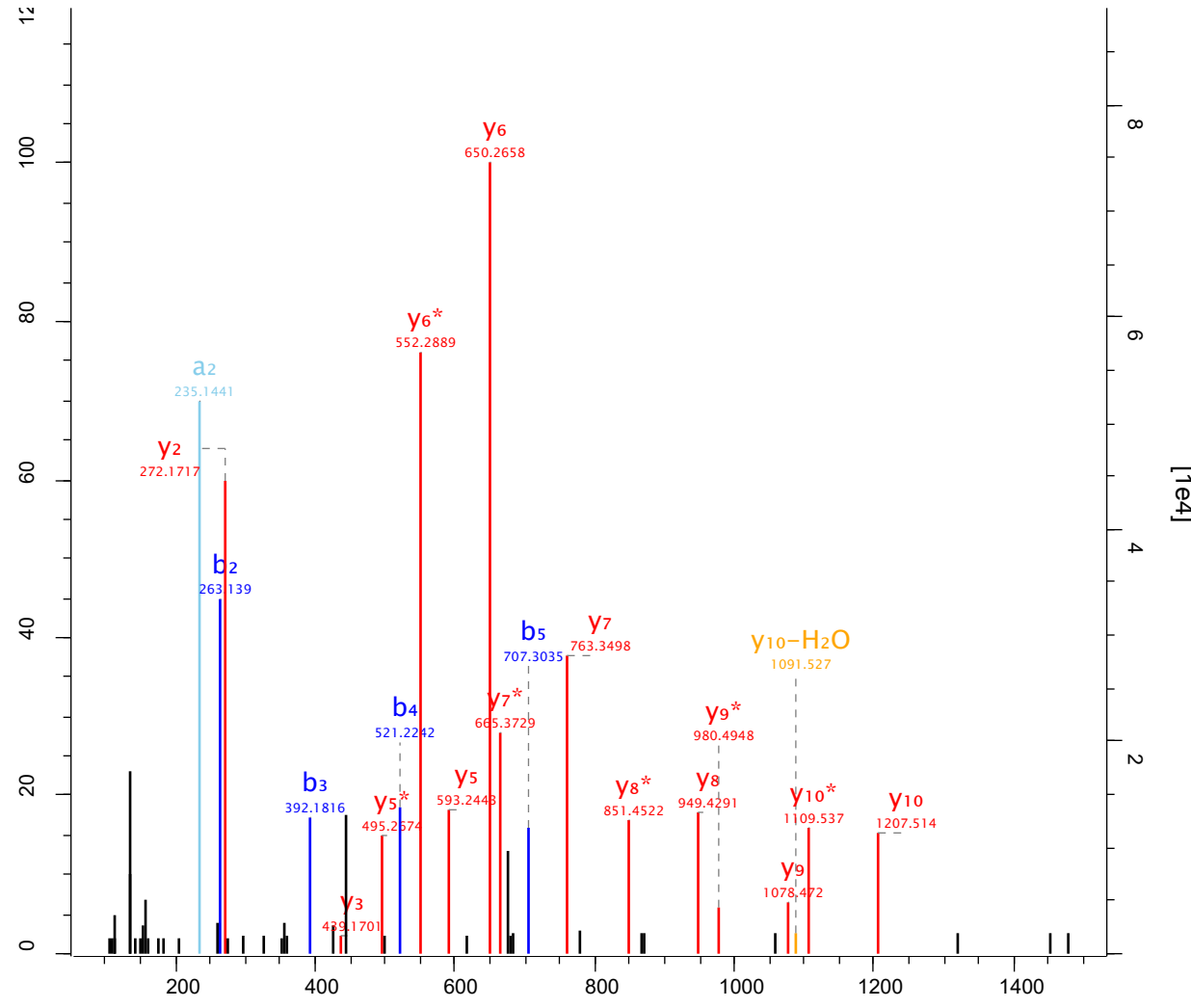
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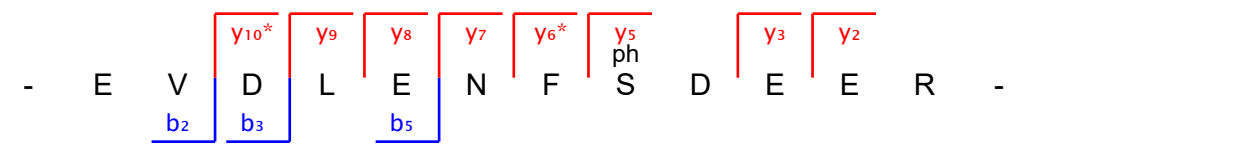
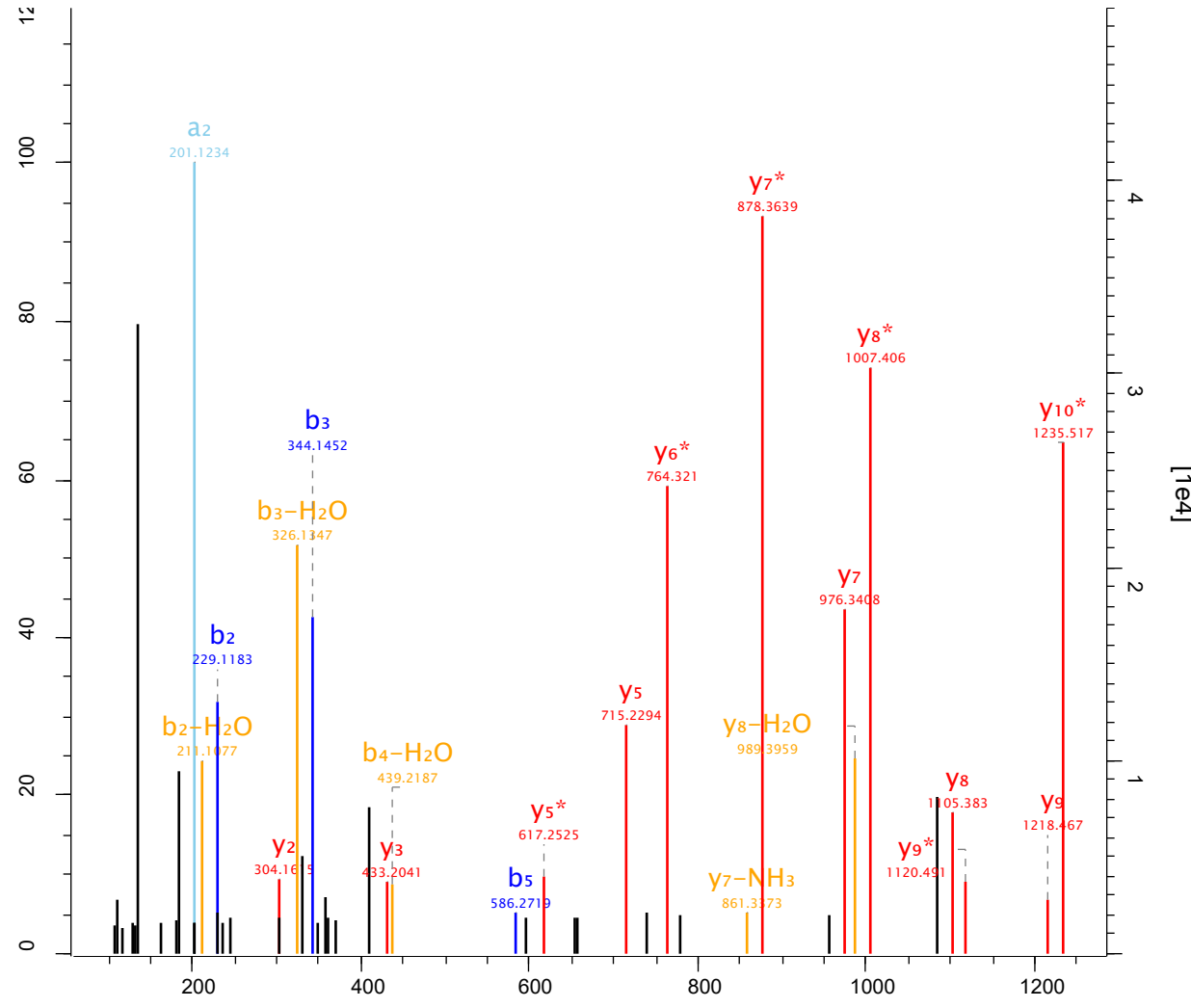
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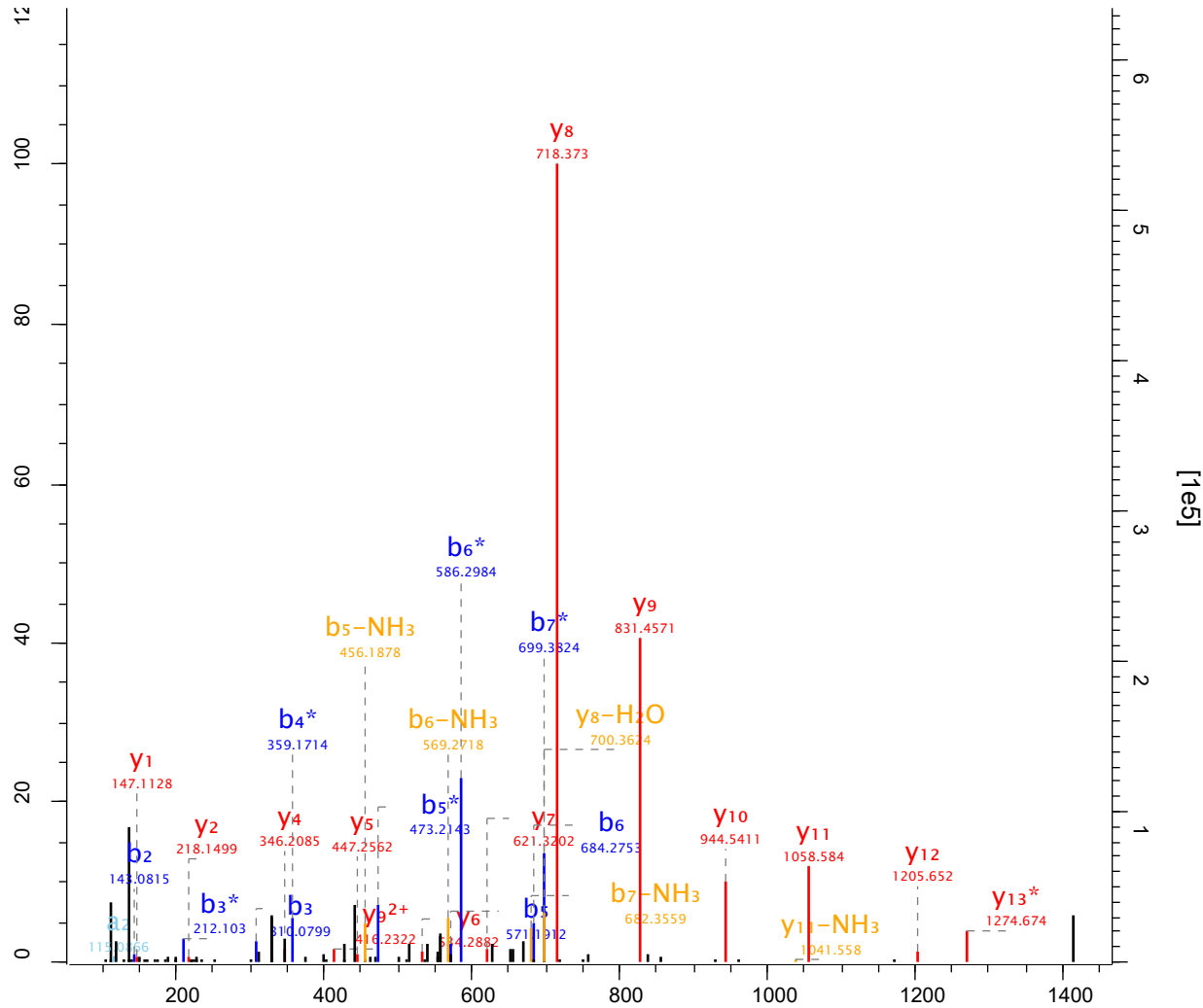
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Raw file Scan Method Score m/z
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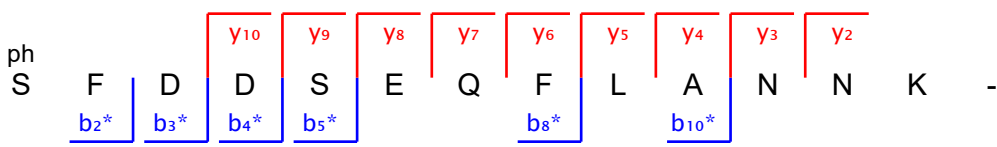
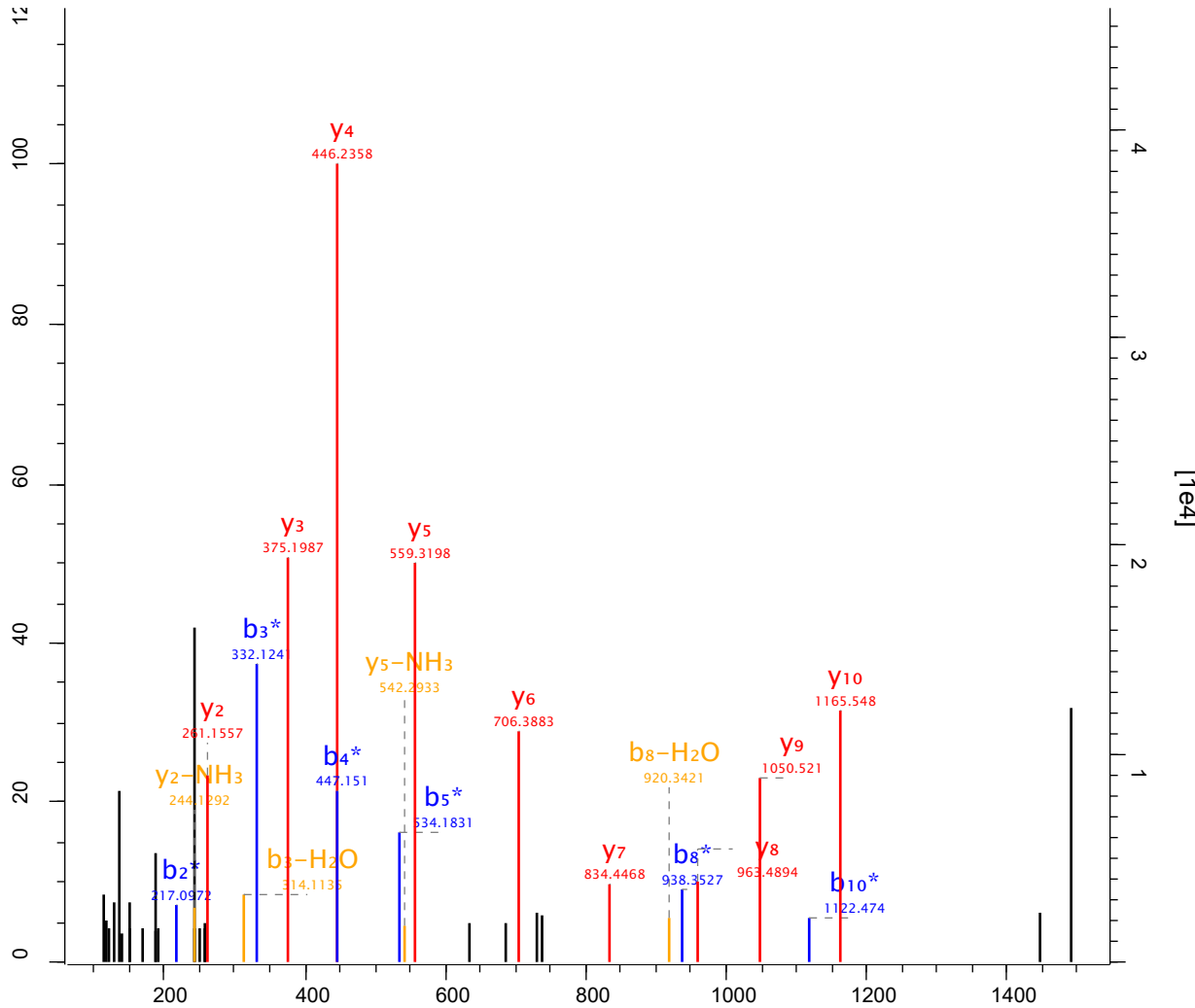


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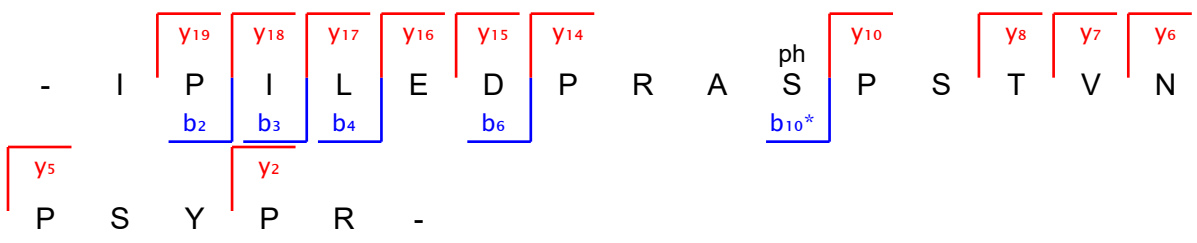
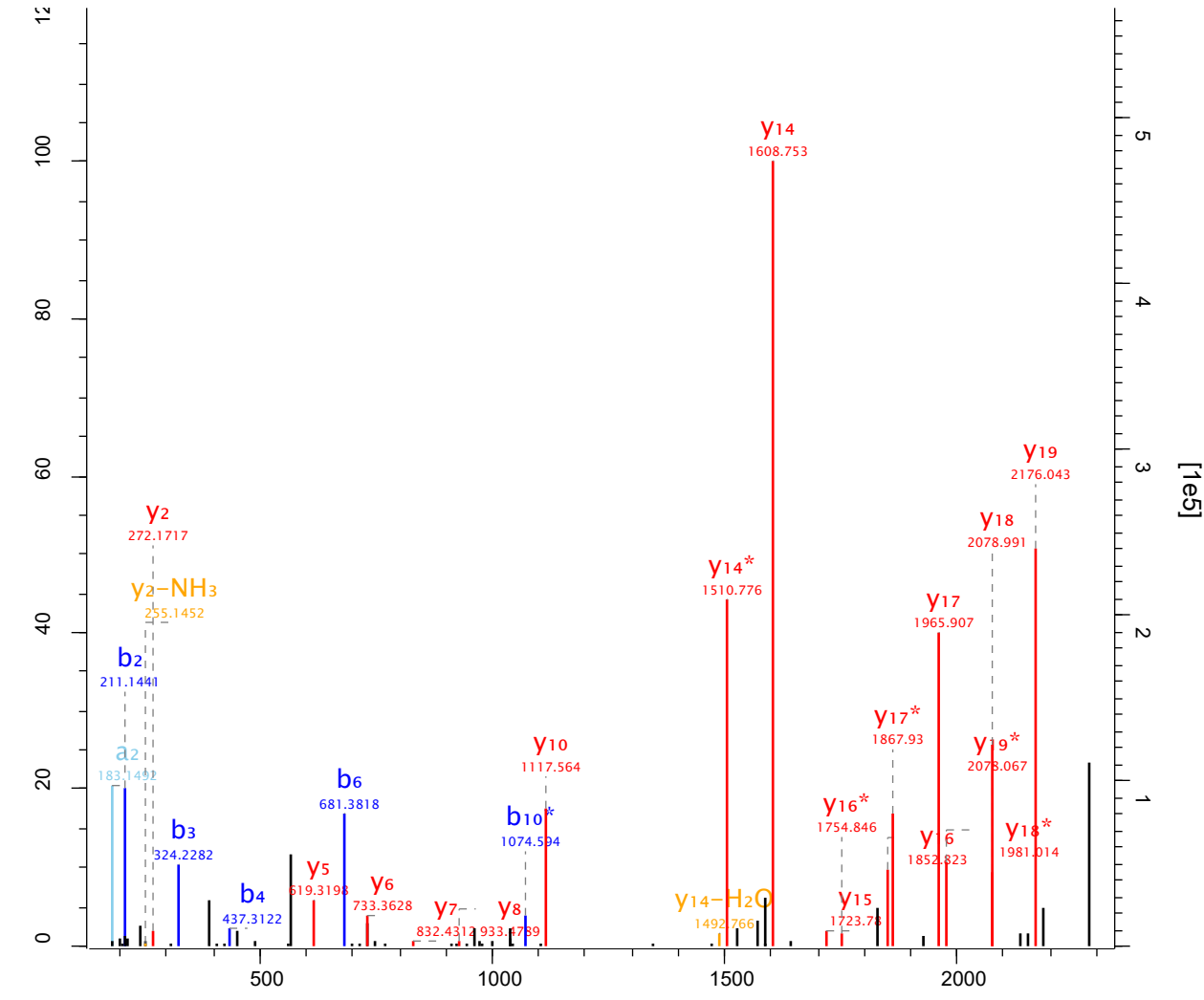


A A y13*
ph y12 y11 y10 y9 y8 y7 y6 y5 y4 y2 y1
 - A b2 b3 b4* b5 b6 b7* P S S T G A A K

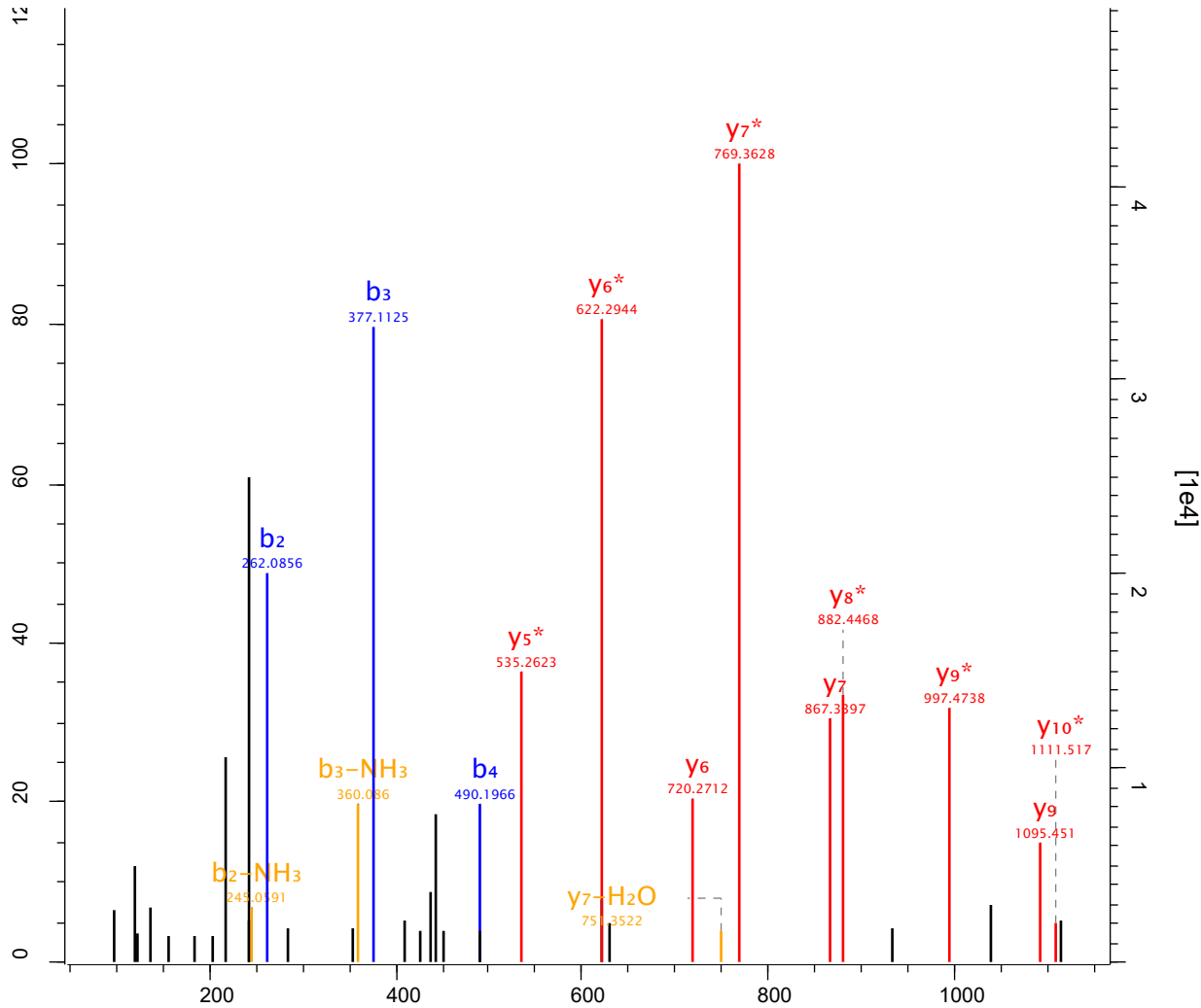
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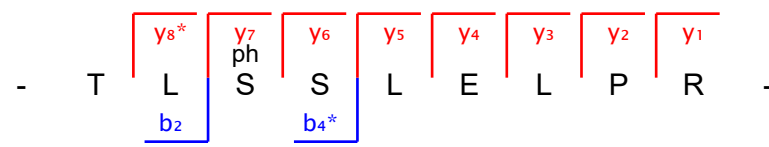
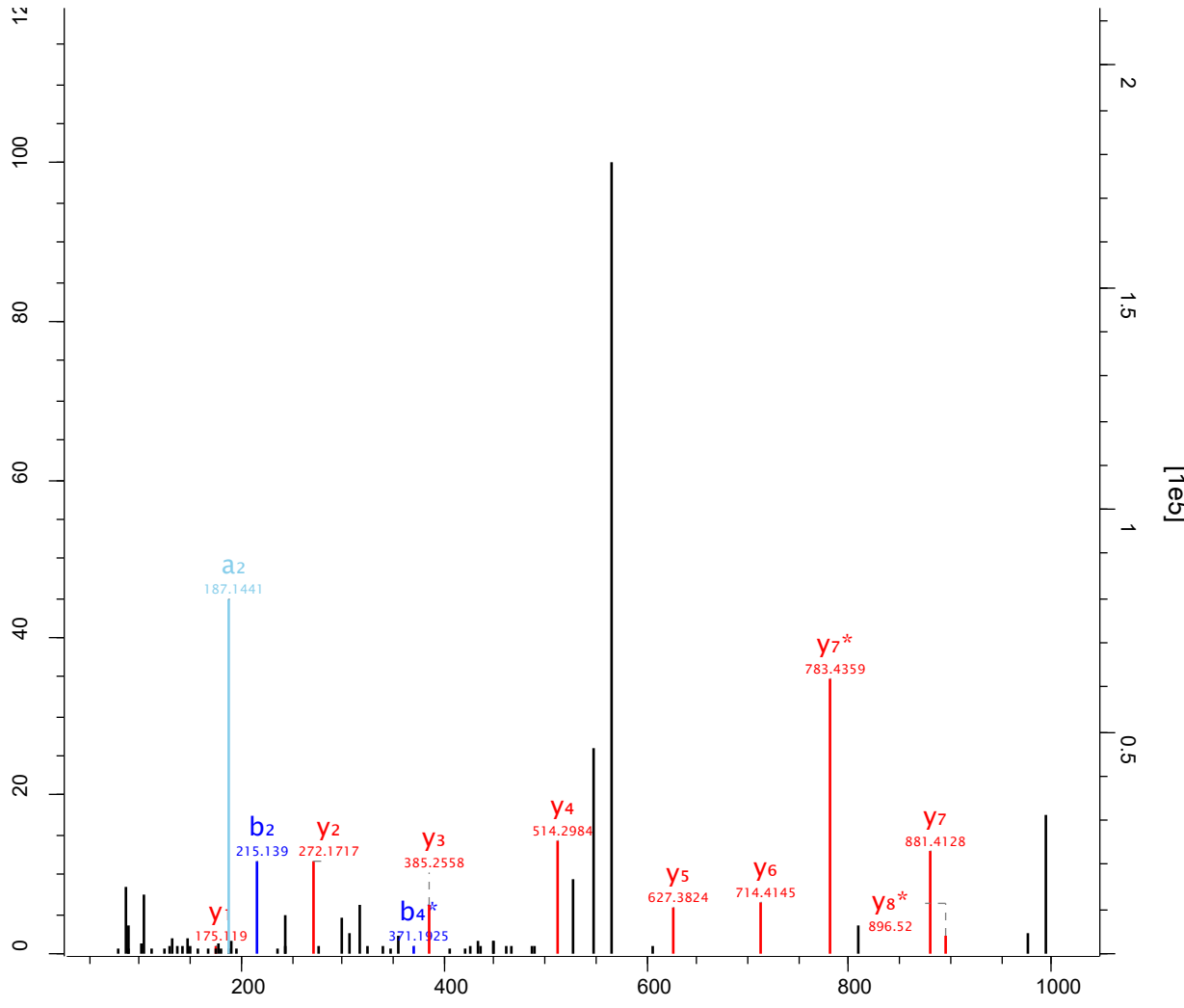


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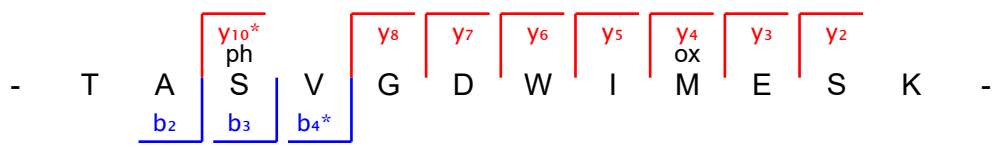
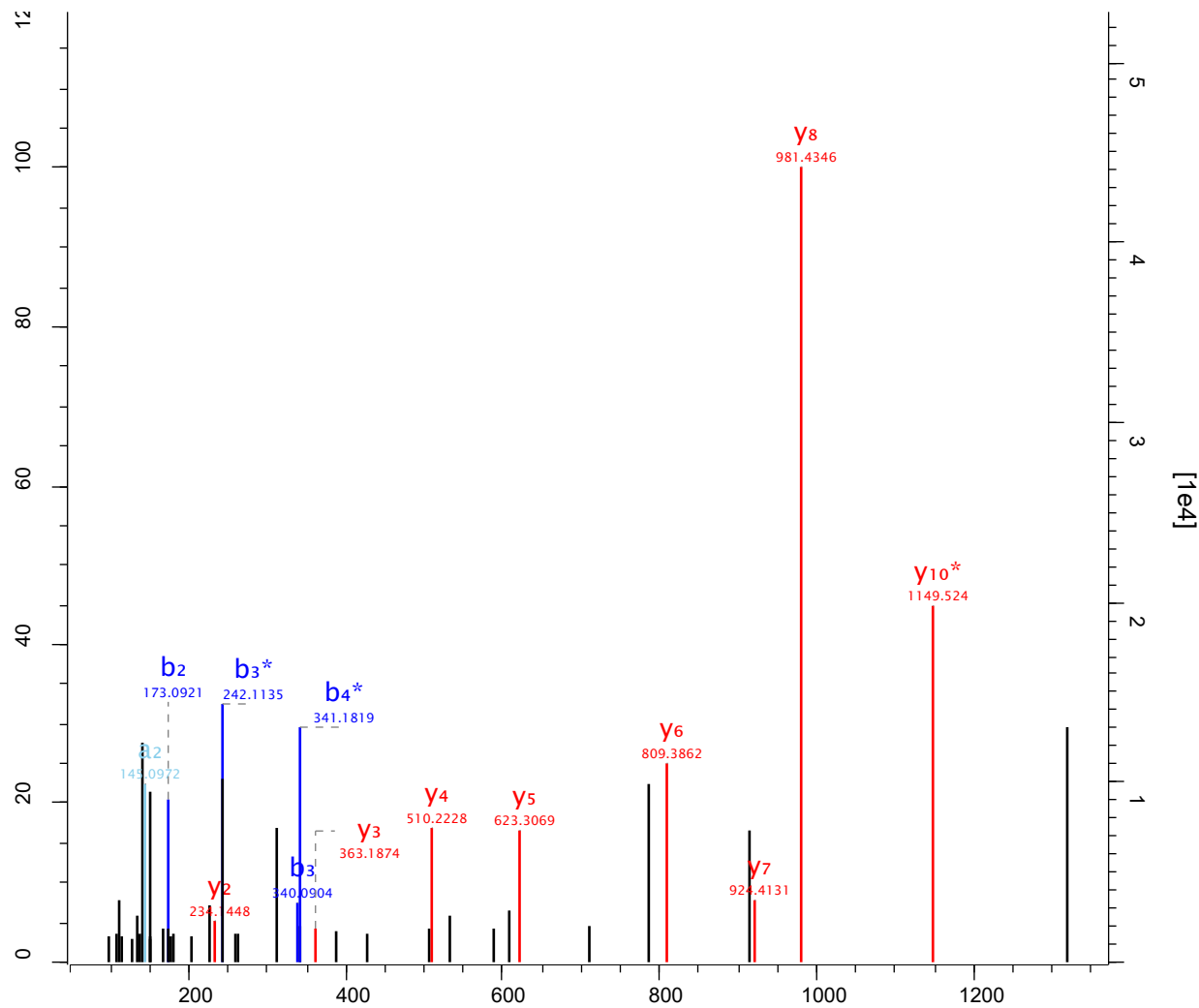


ox M y₁₀^{*} y₉ y₈^{*} y₇ y₆ y₅^{*}
 - N D L F S G S F ph S R -
b₂ b₃ b₄

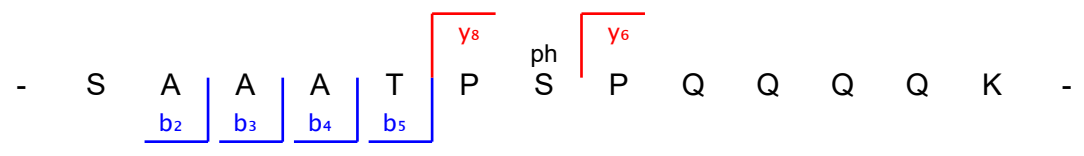
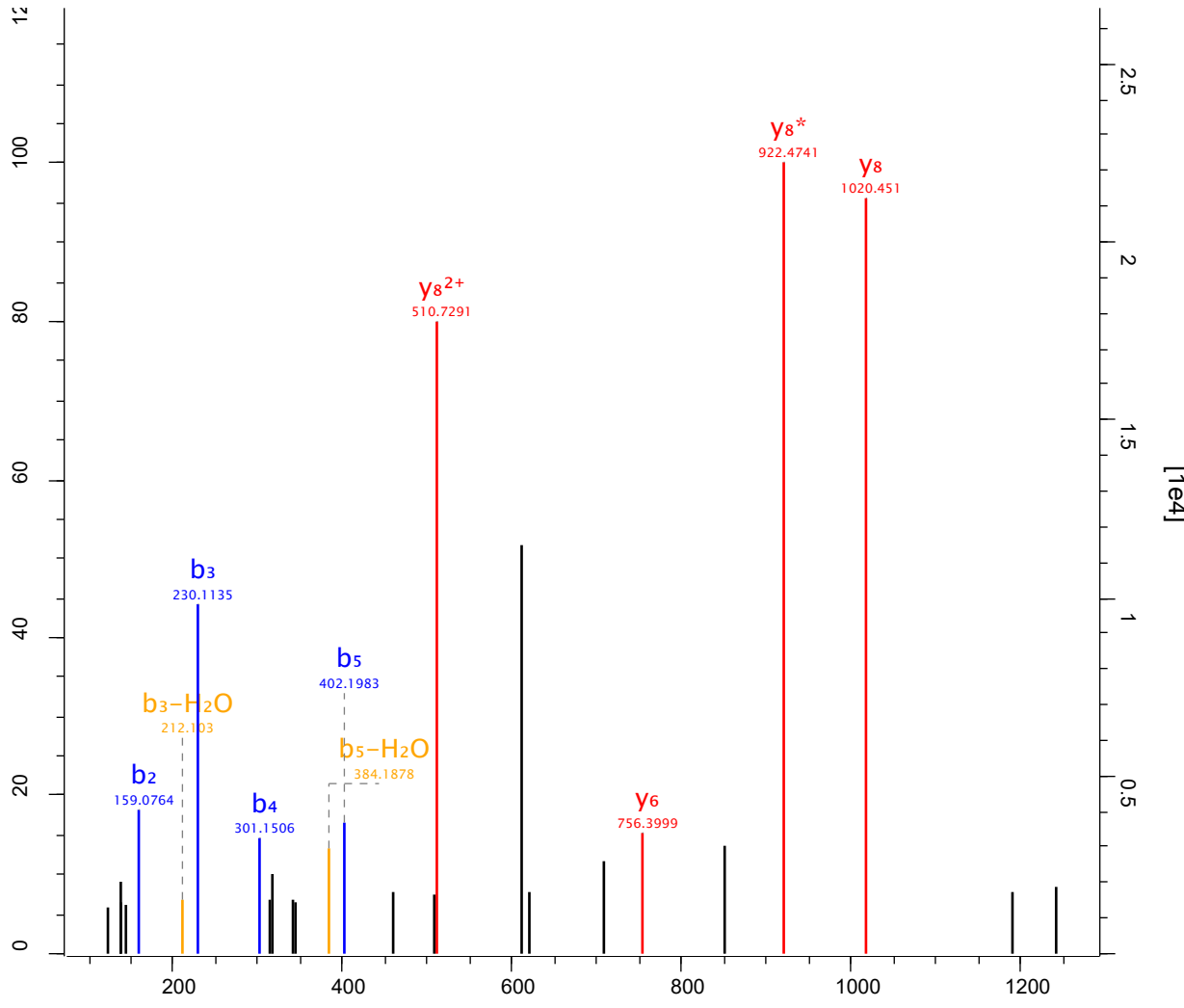
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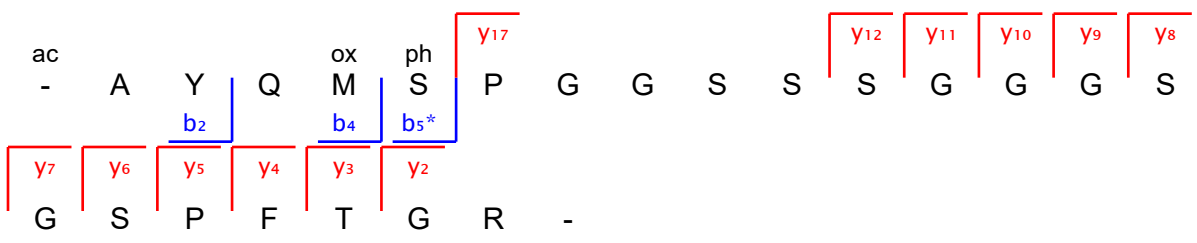
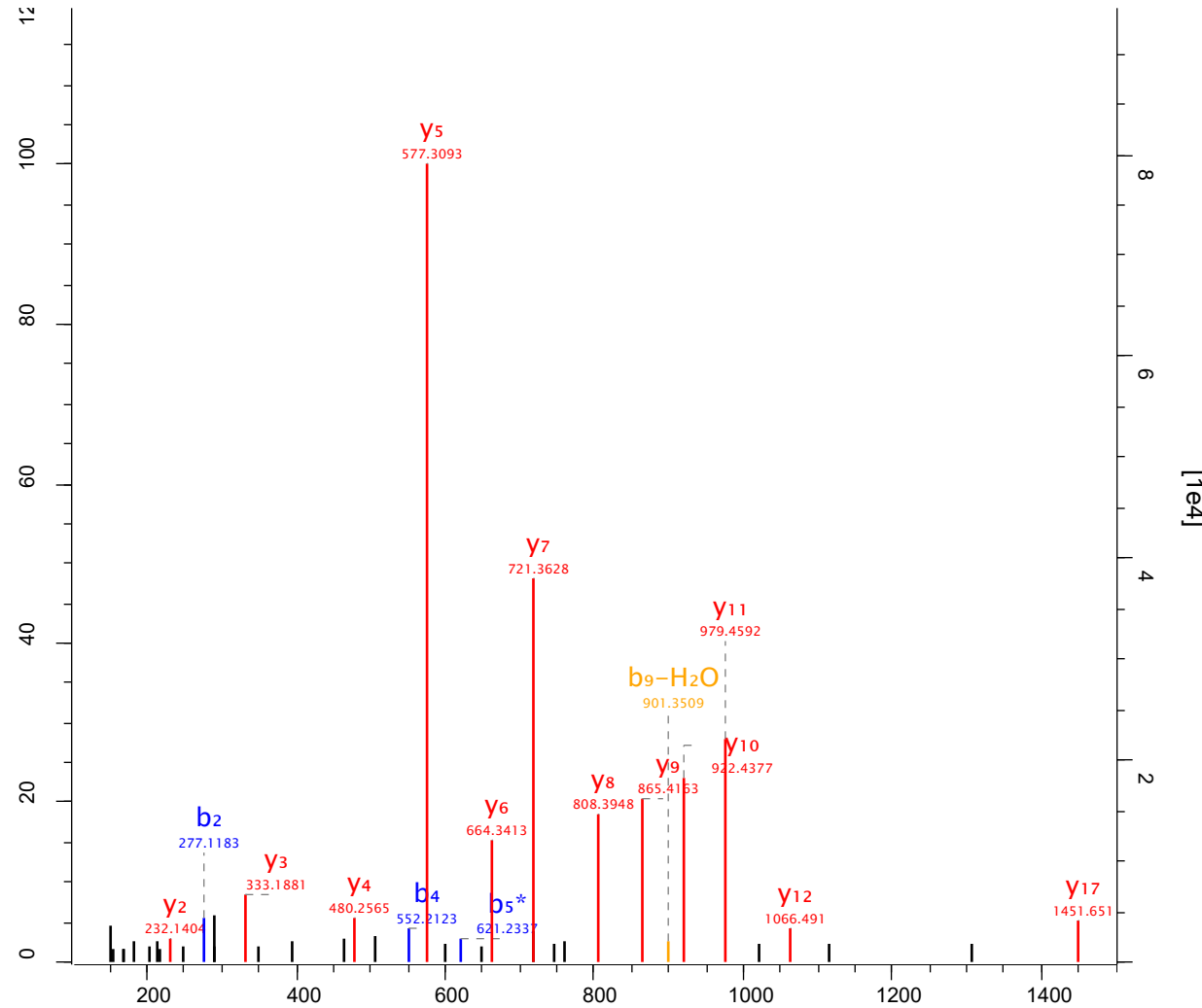
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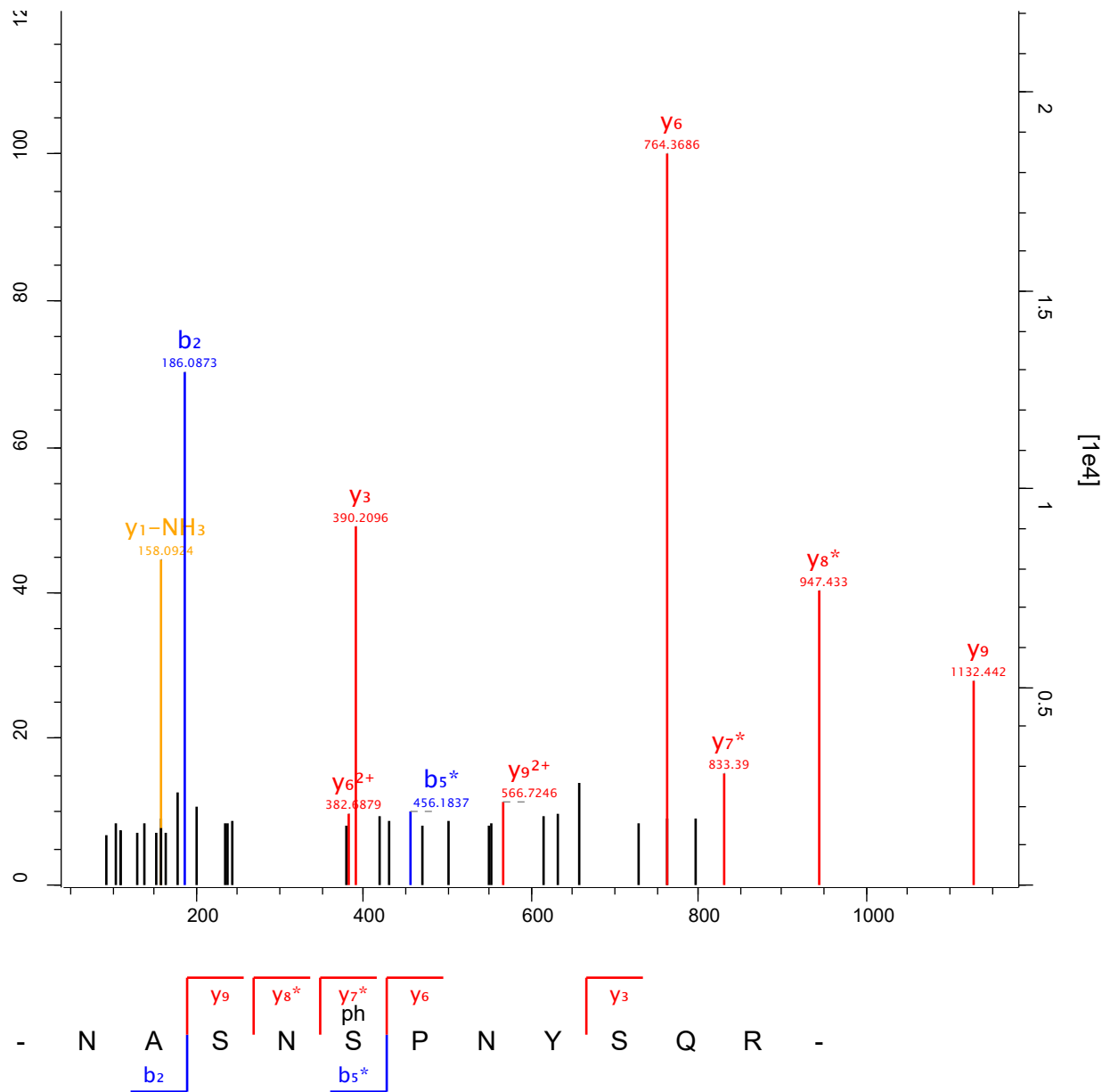
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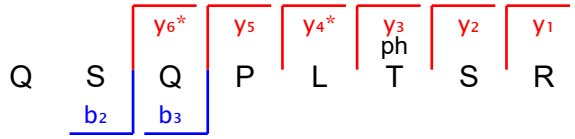
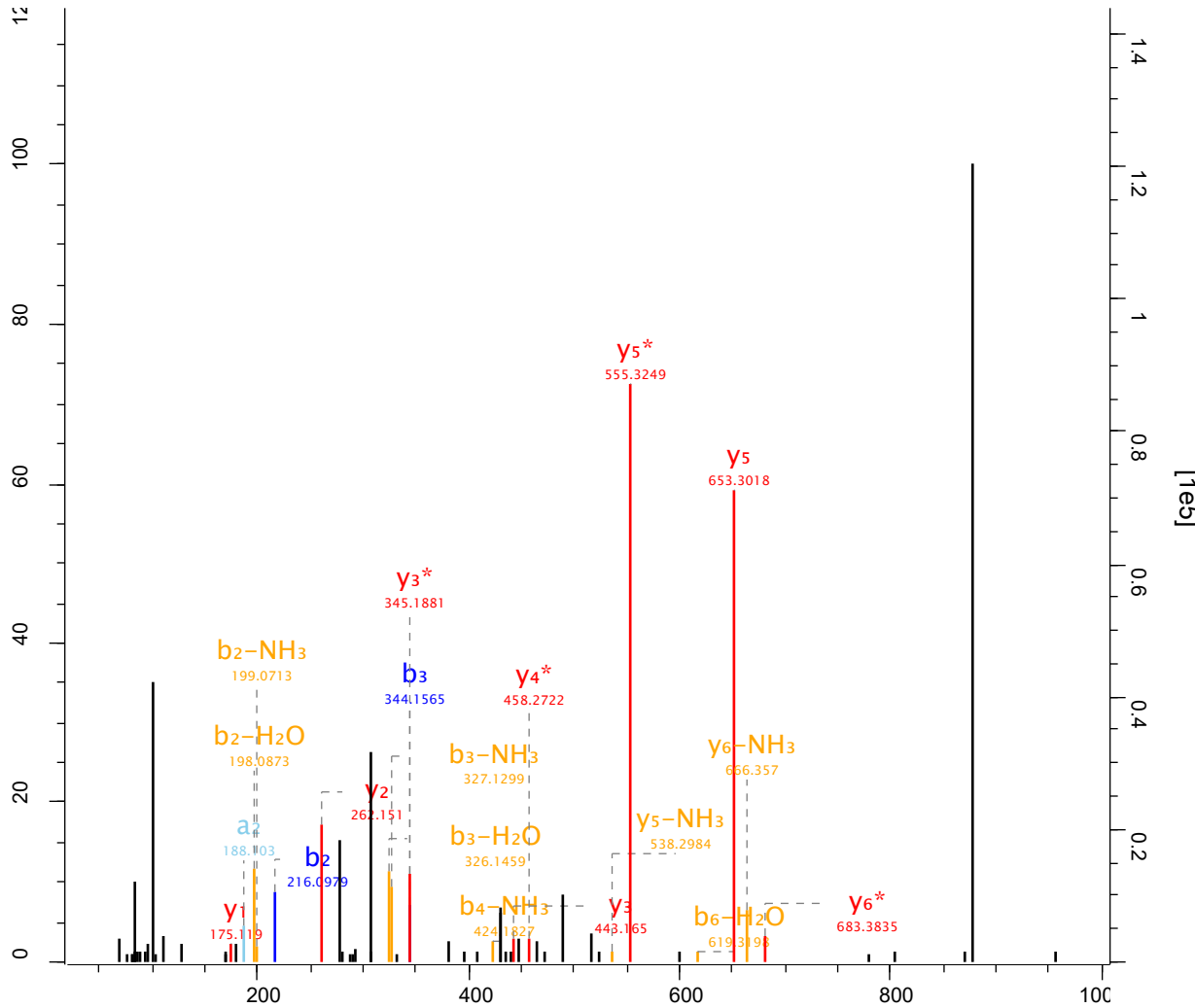
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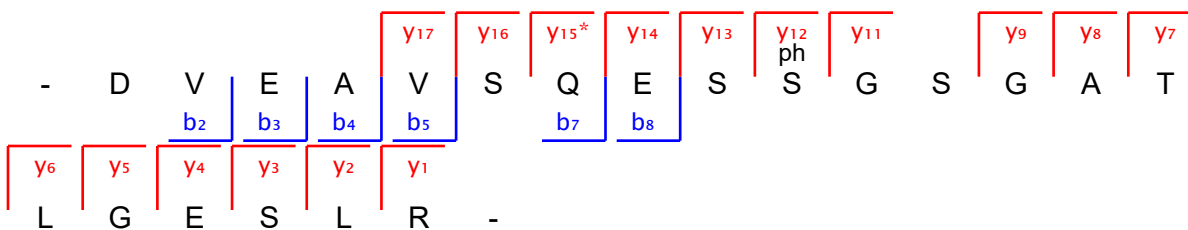
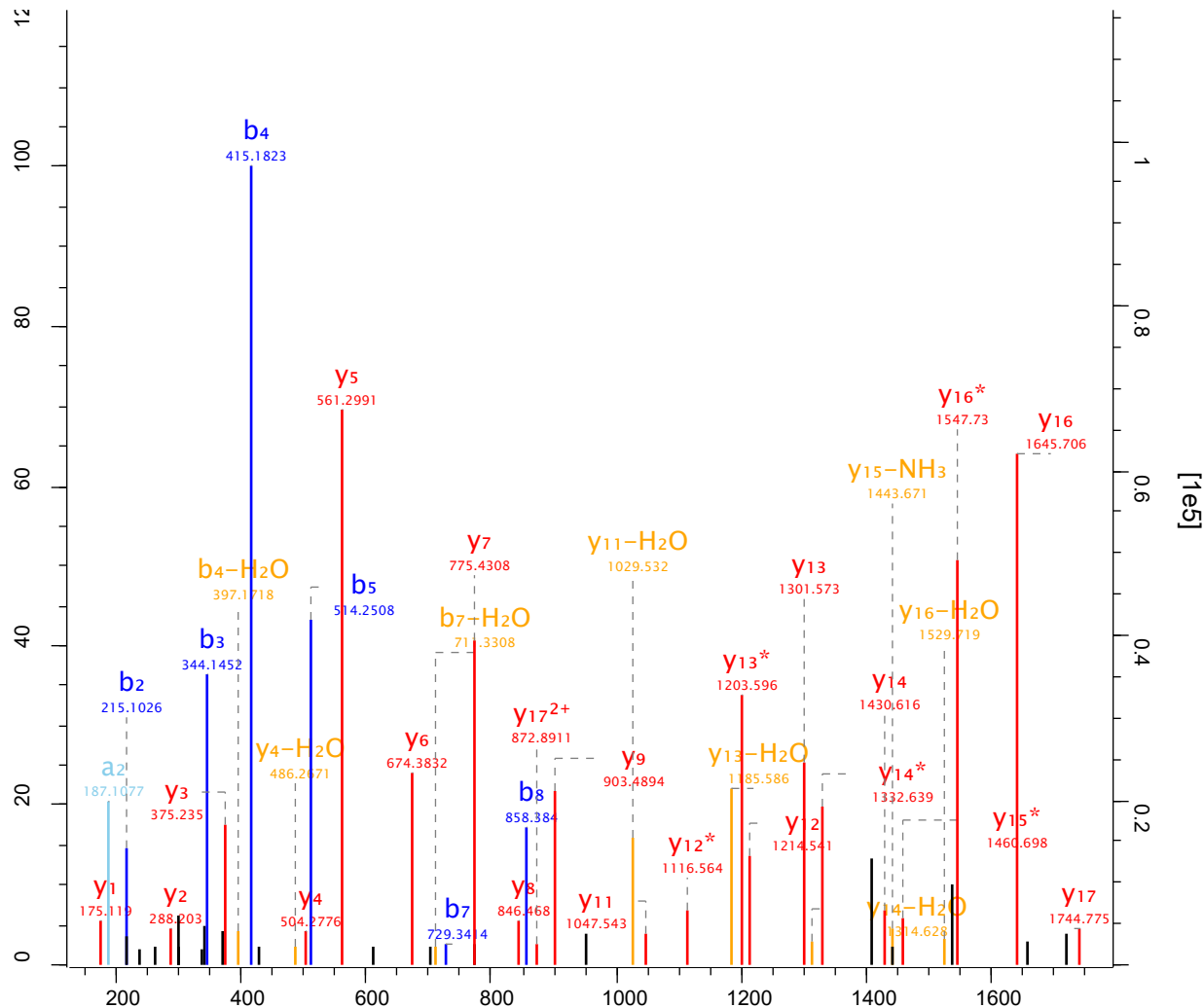
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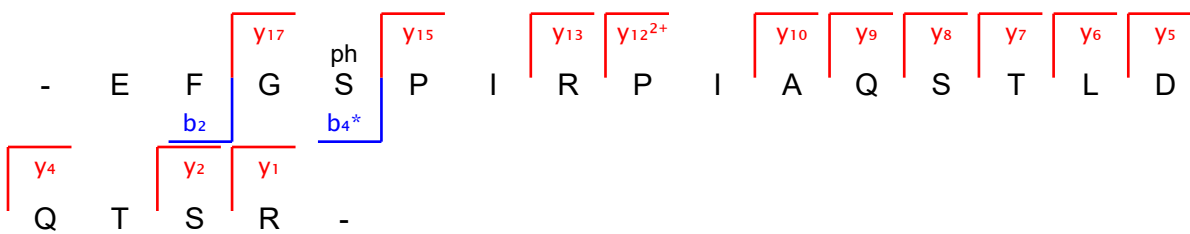
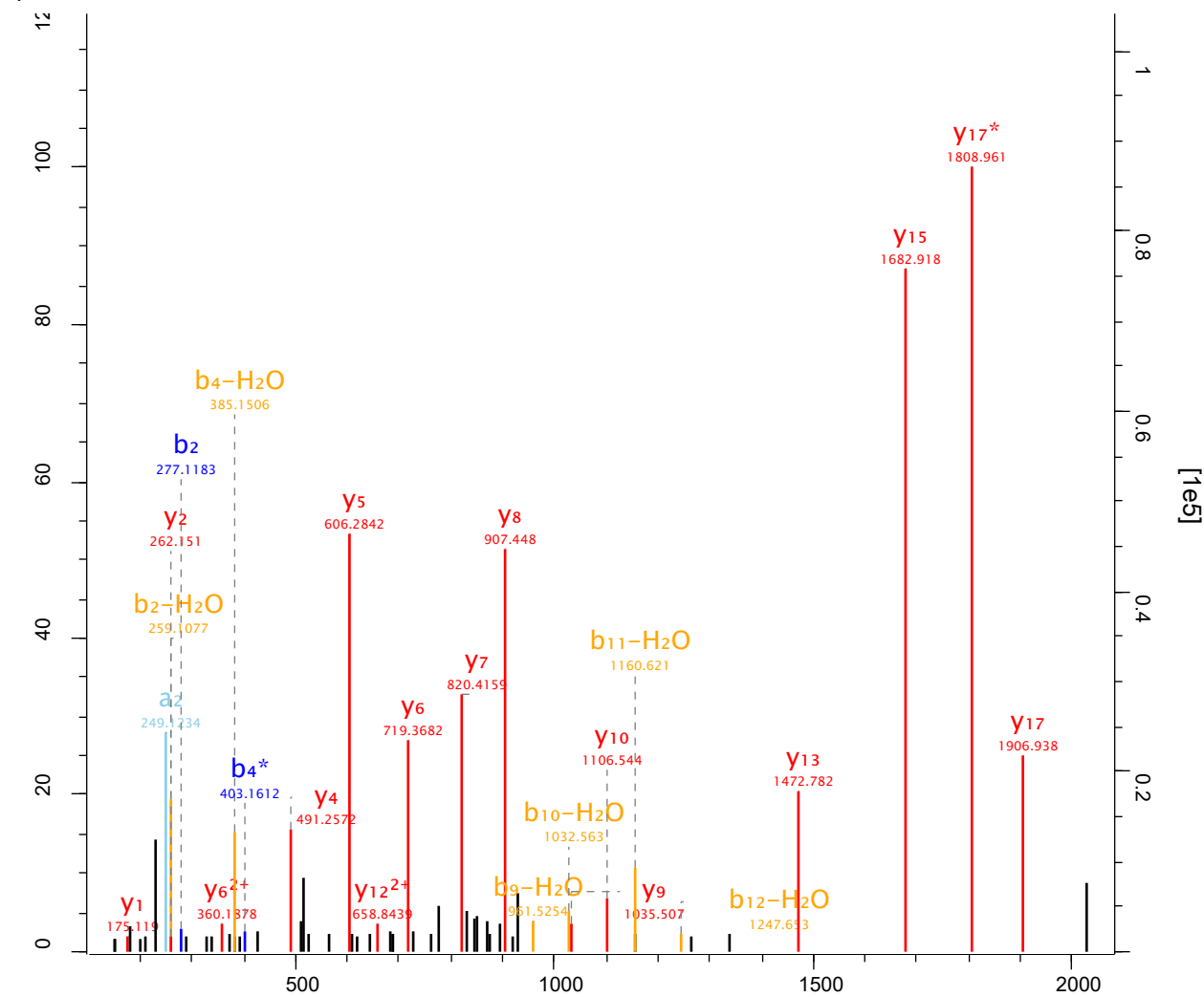
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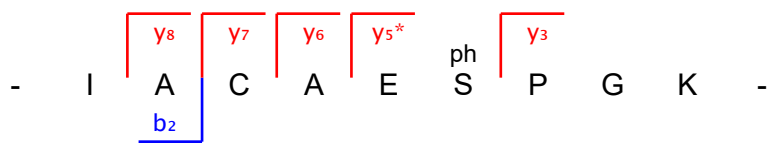
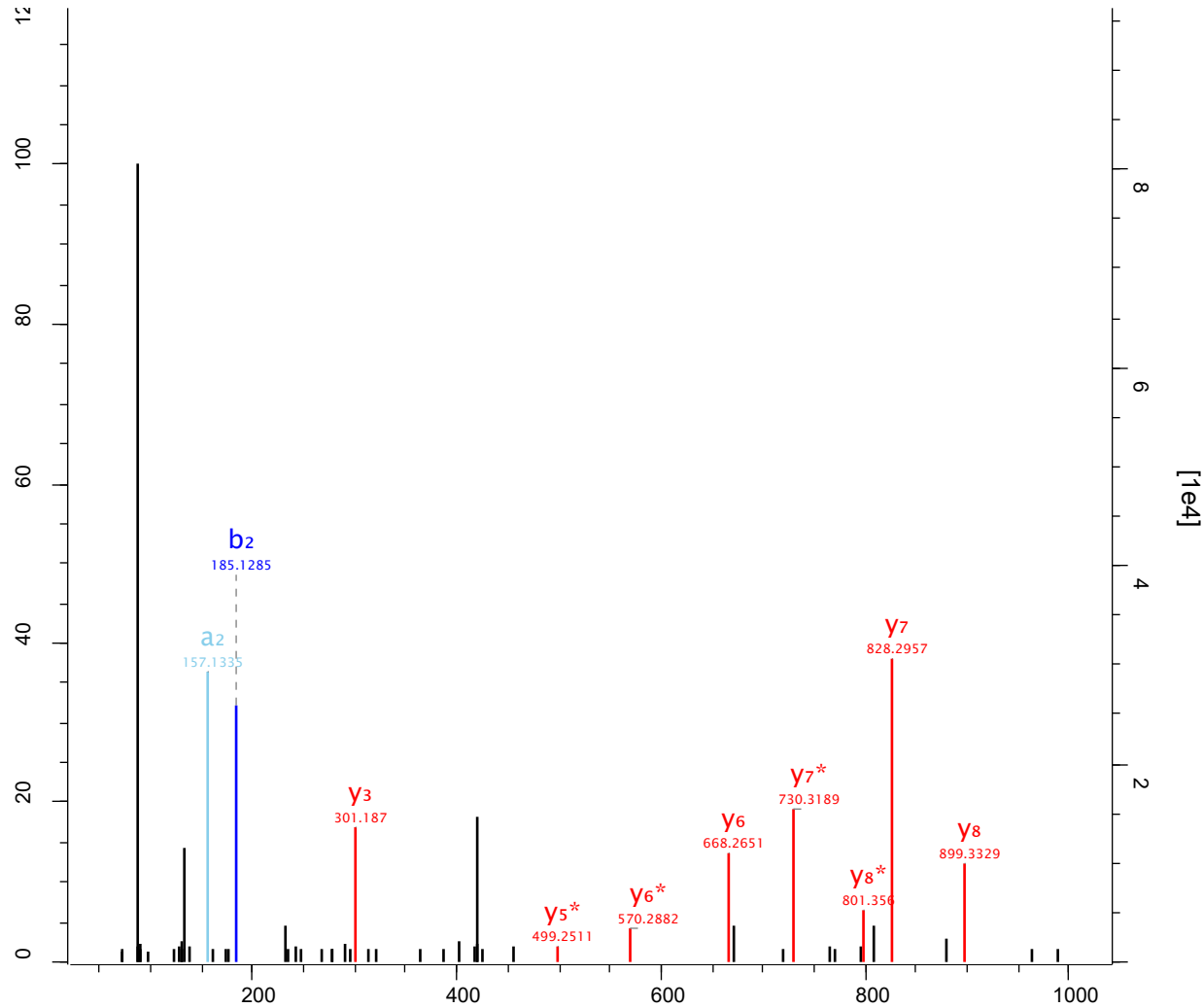
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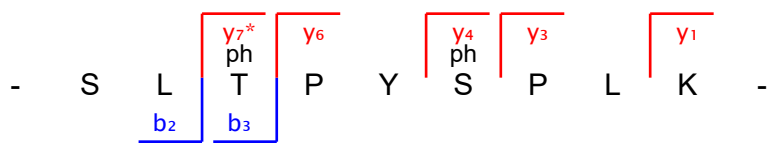
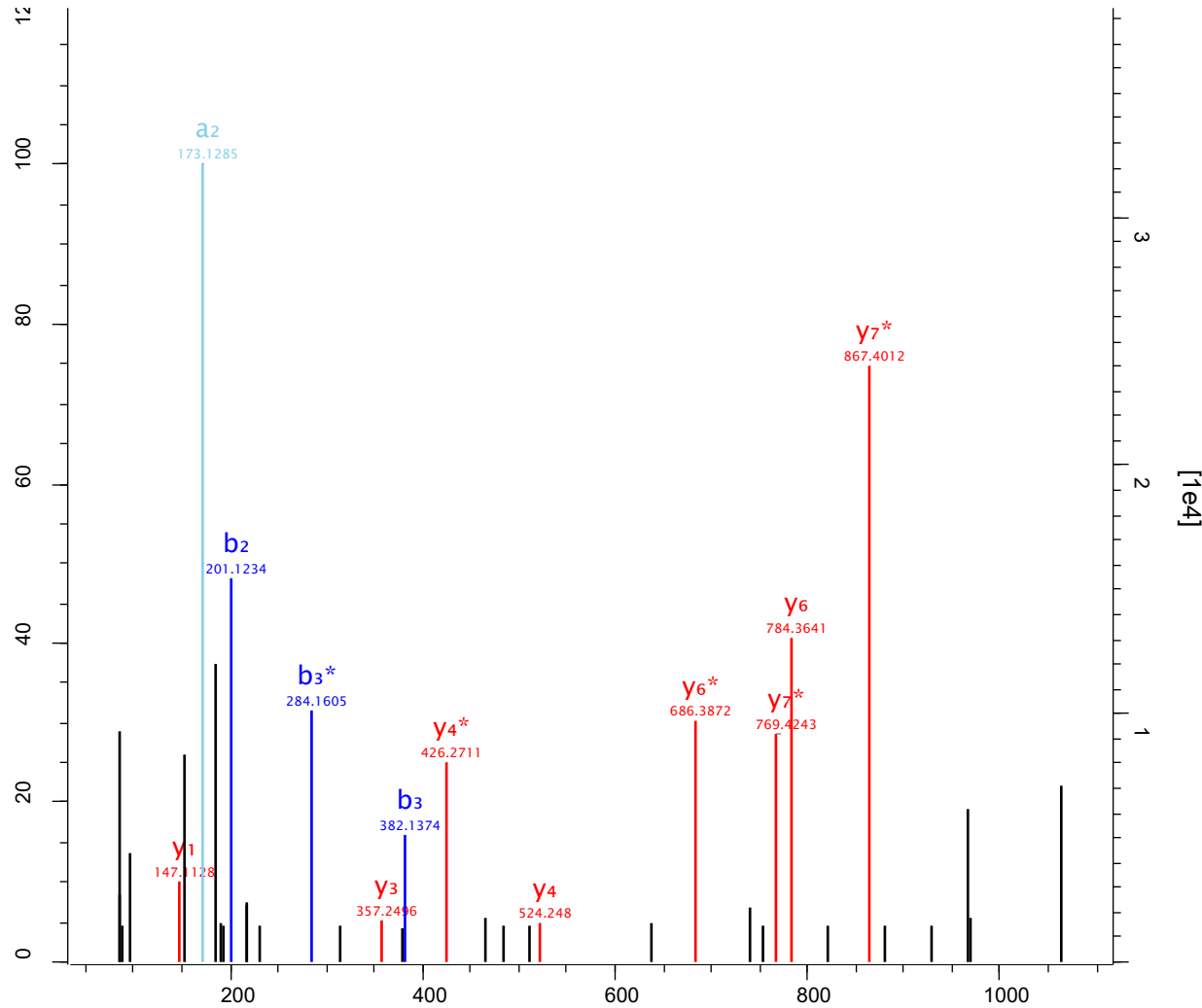
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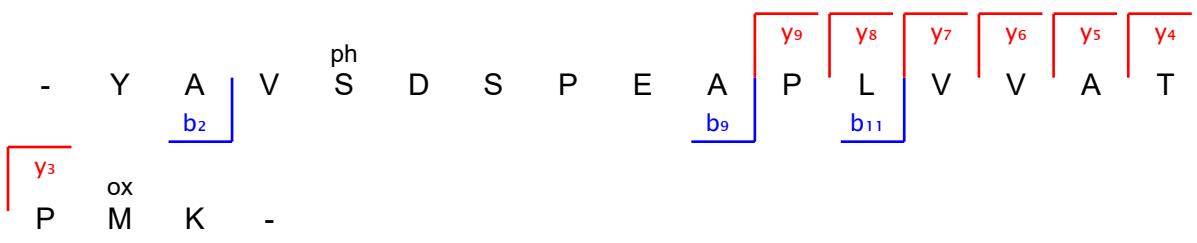
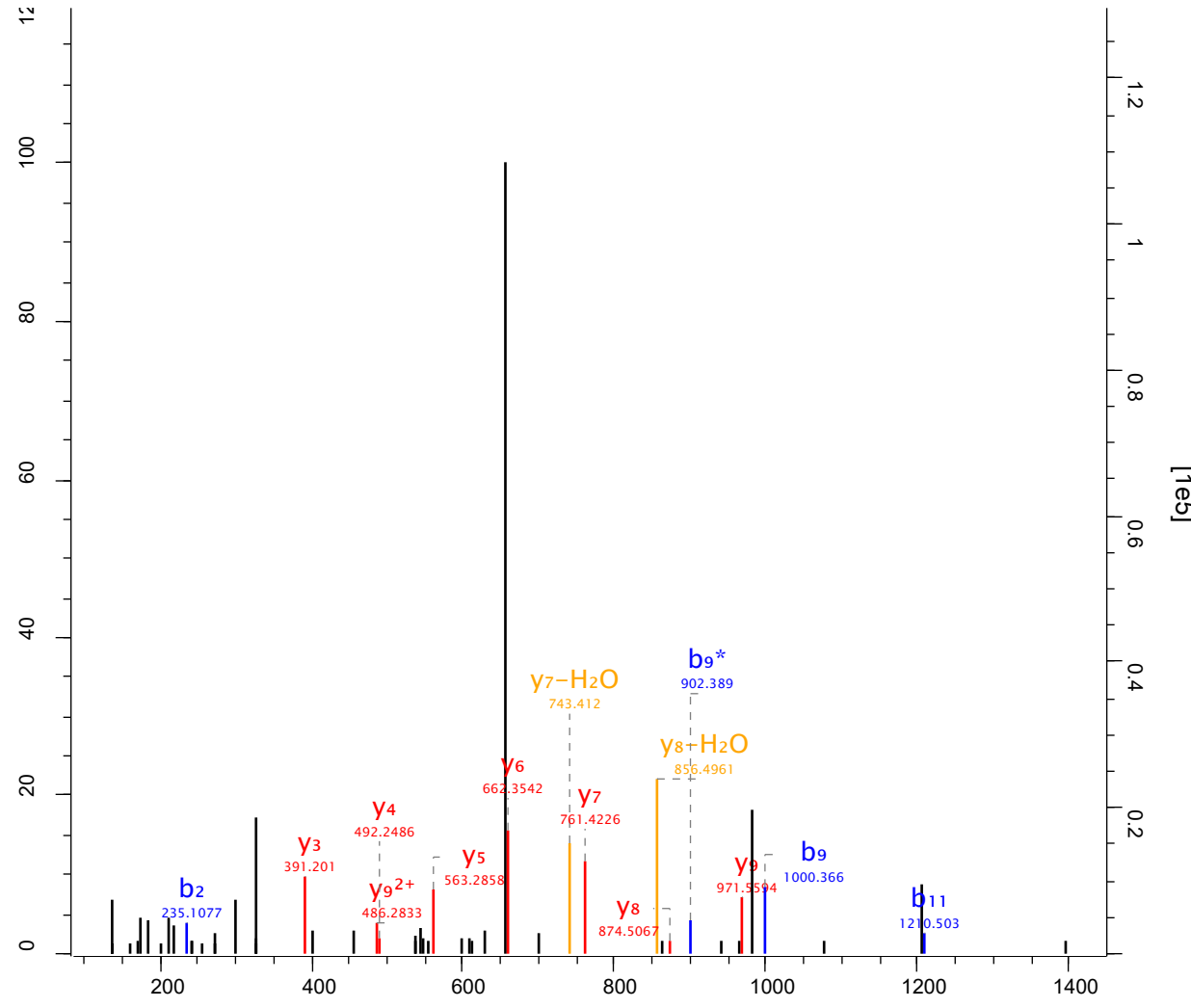
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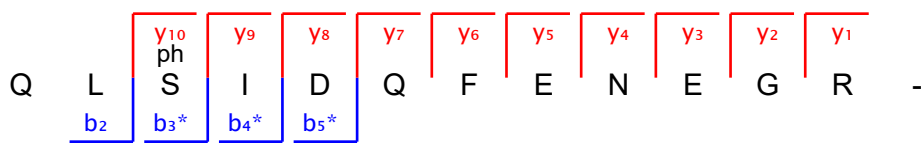
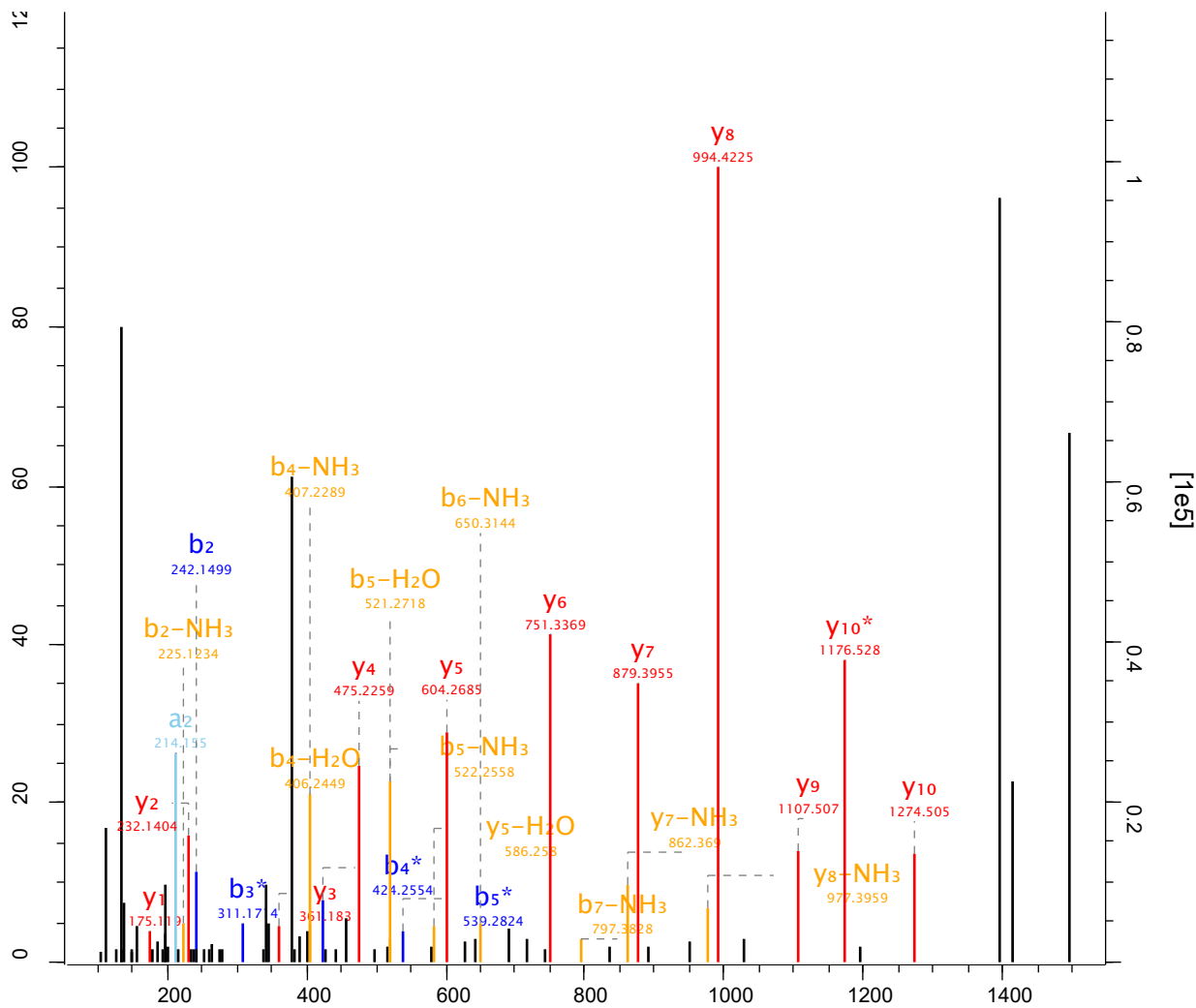
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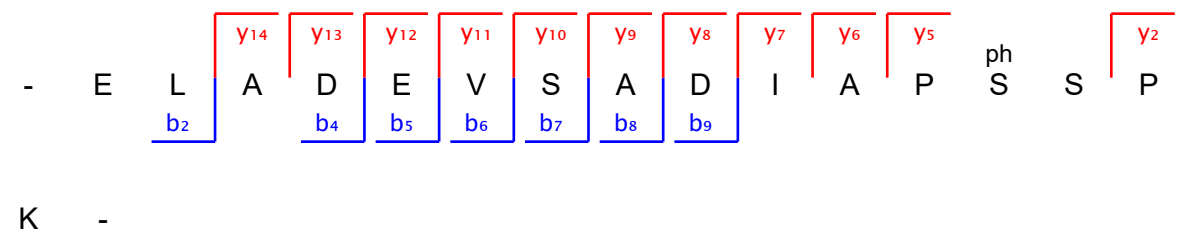
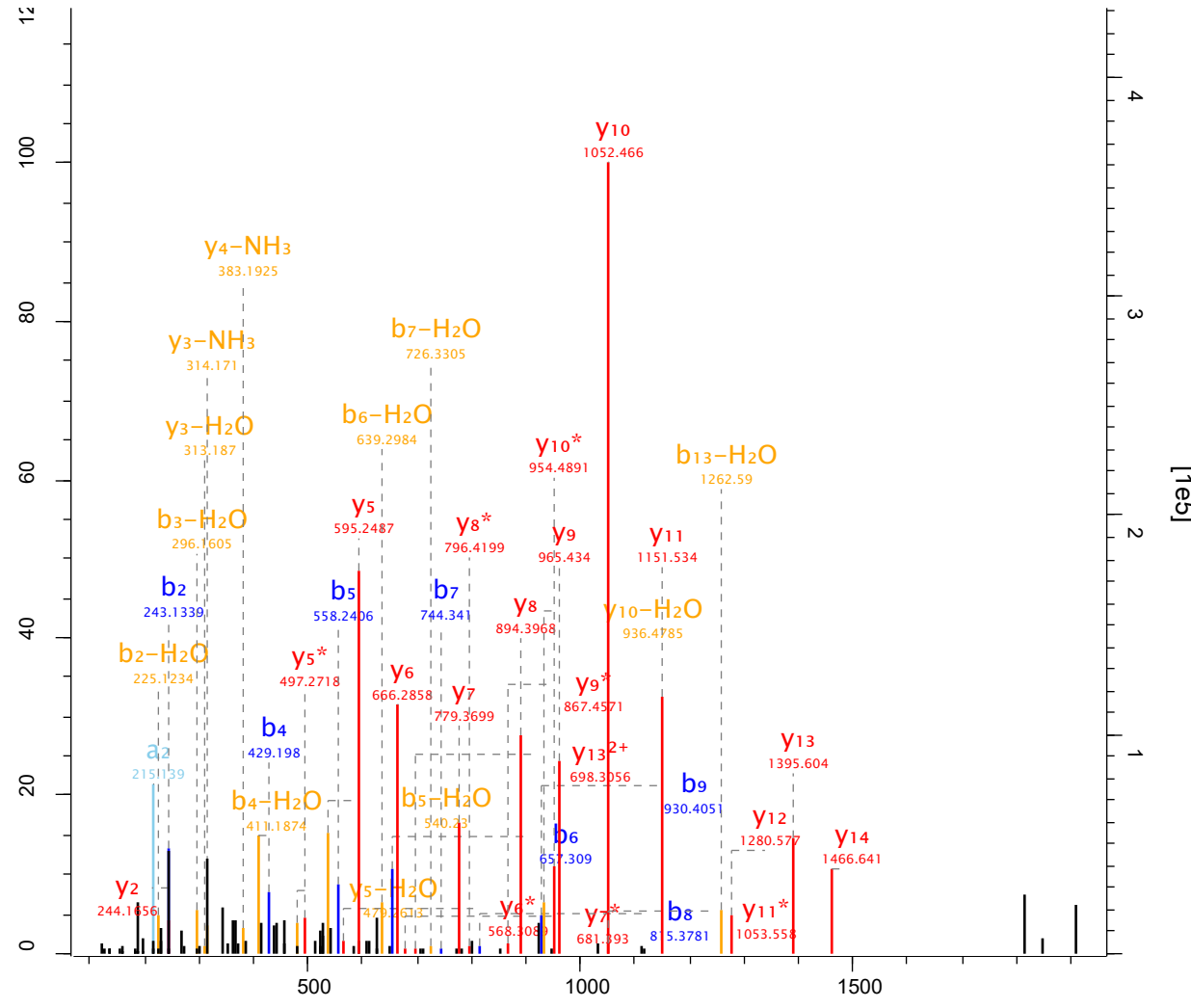
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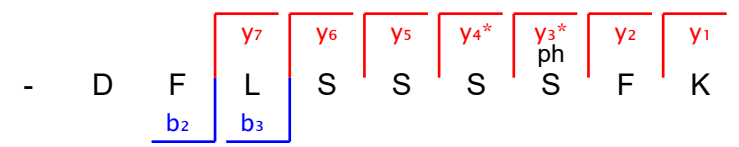
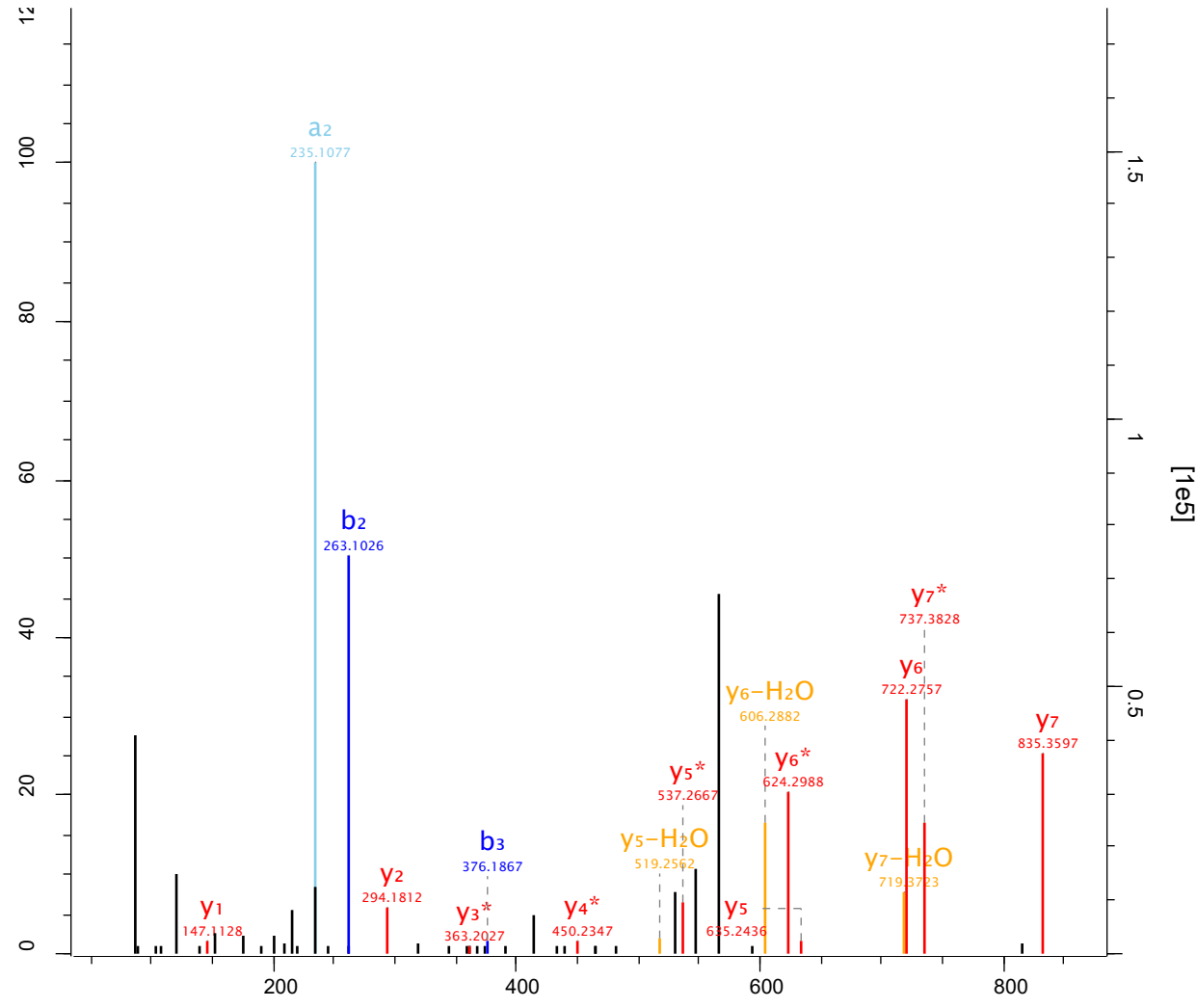
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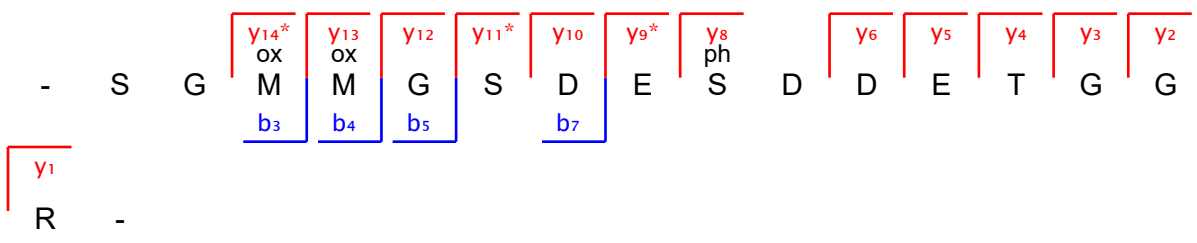
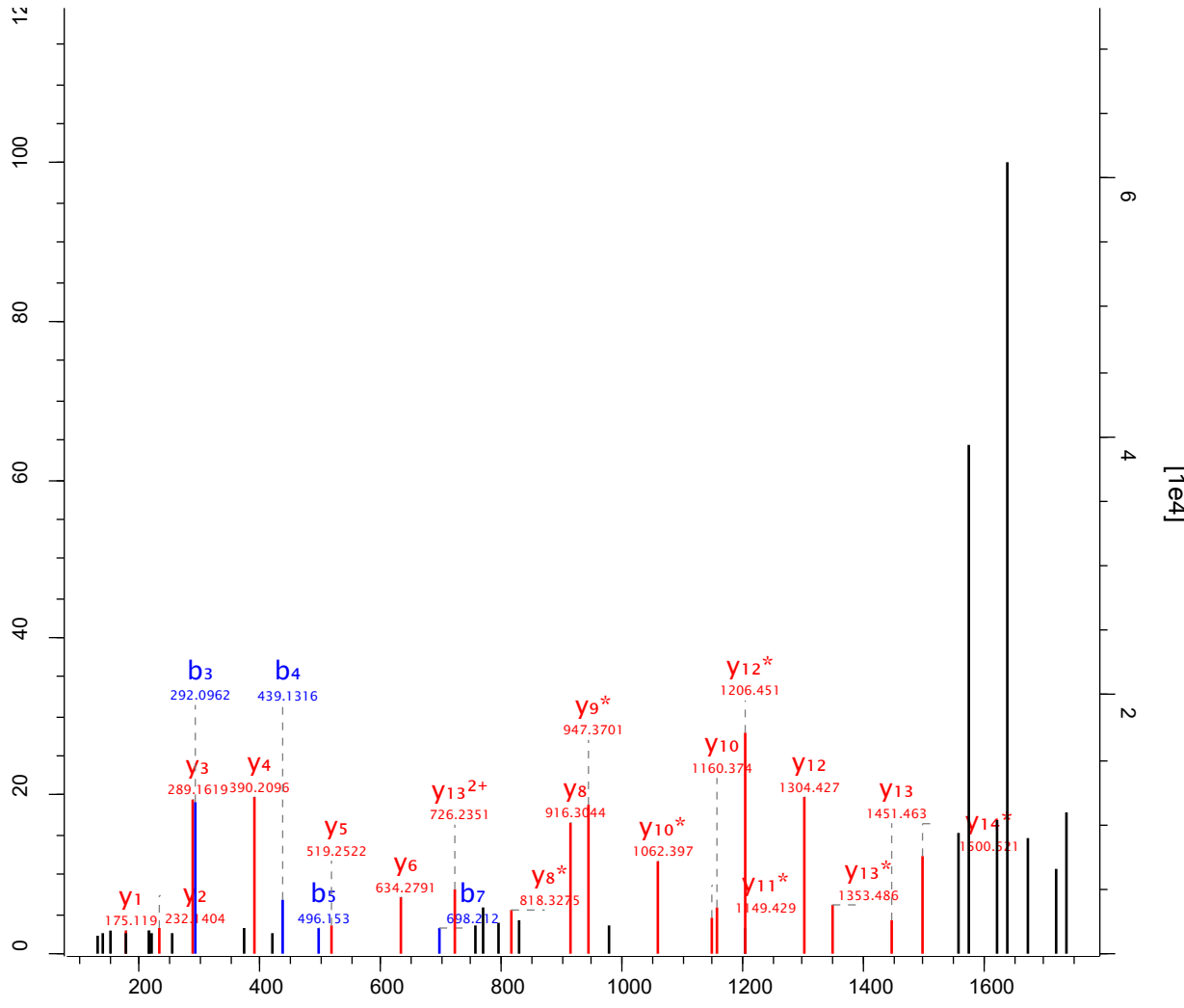
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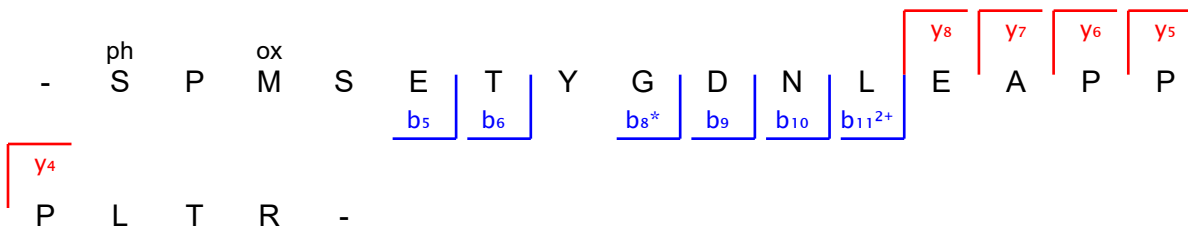
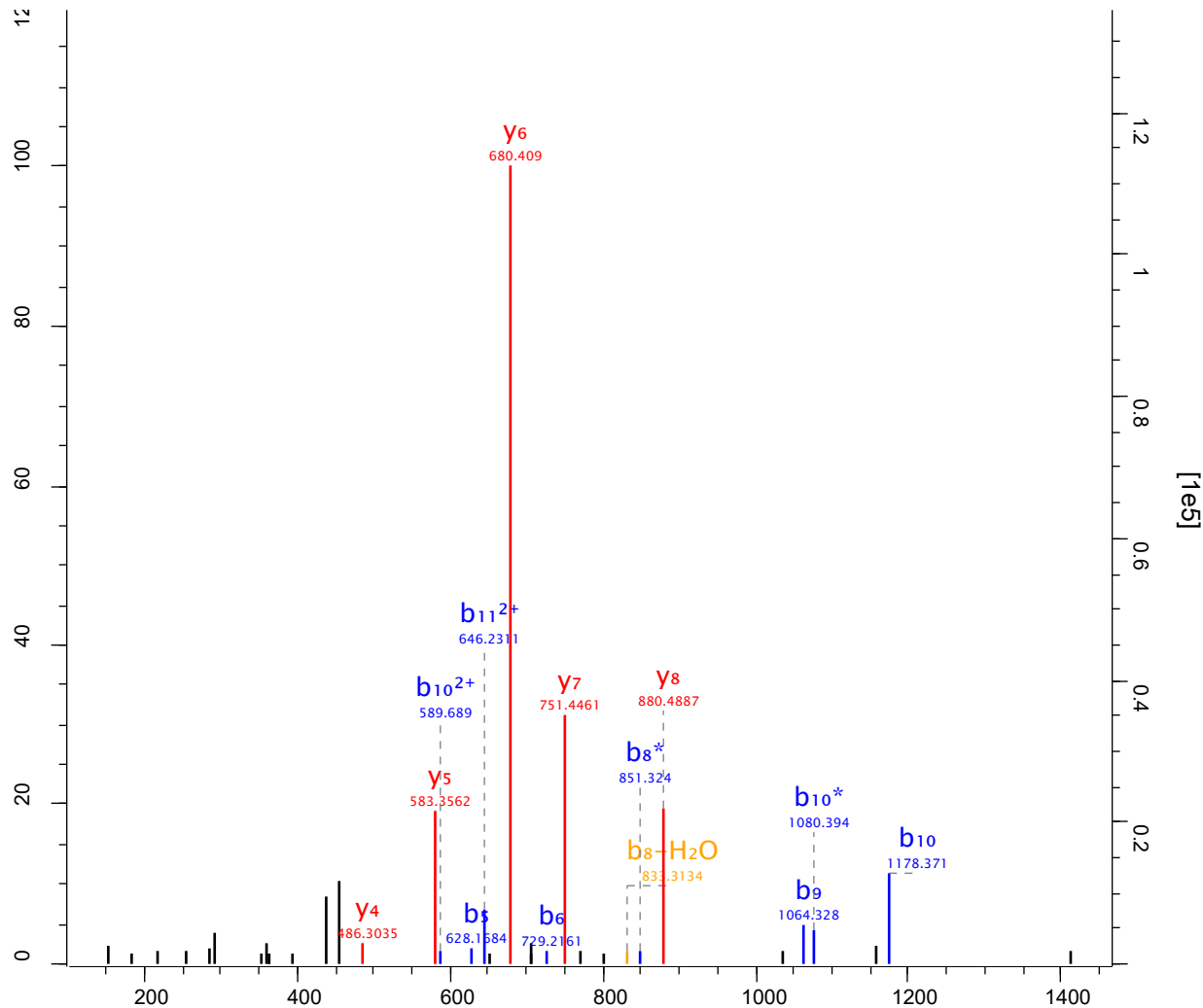
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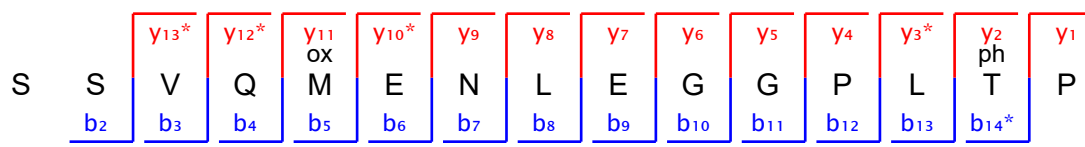
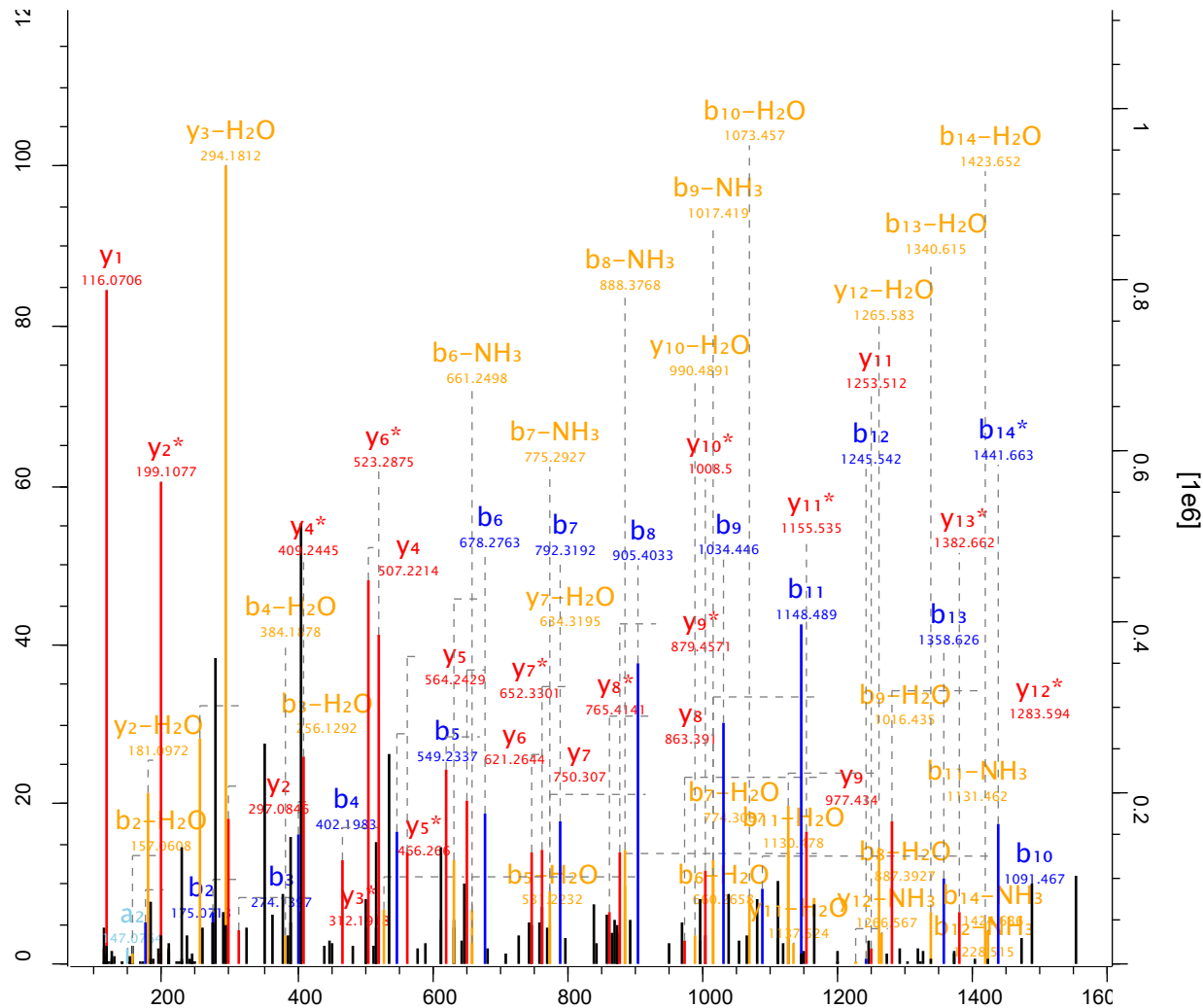
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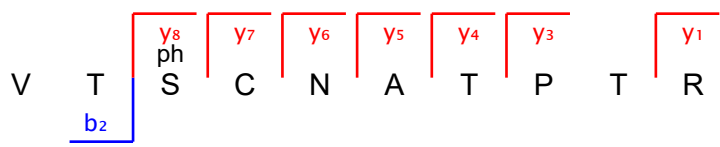
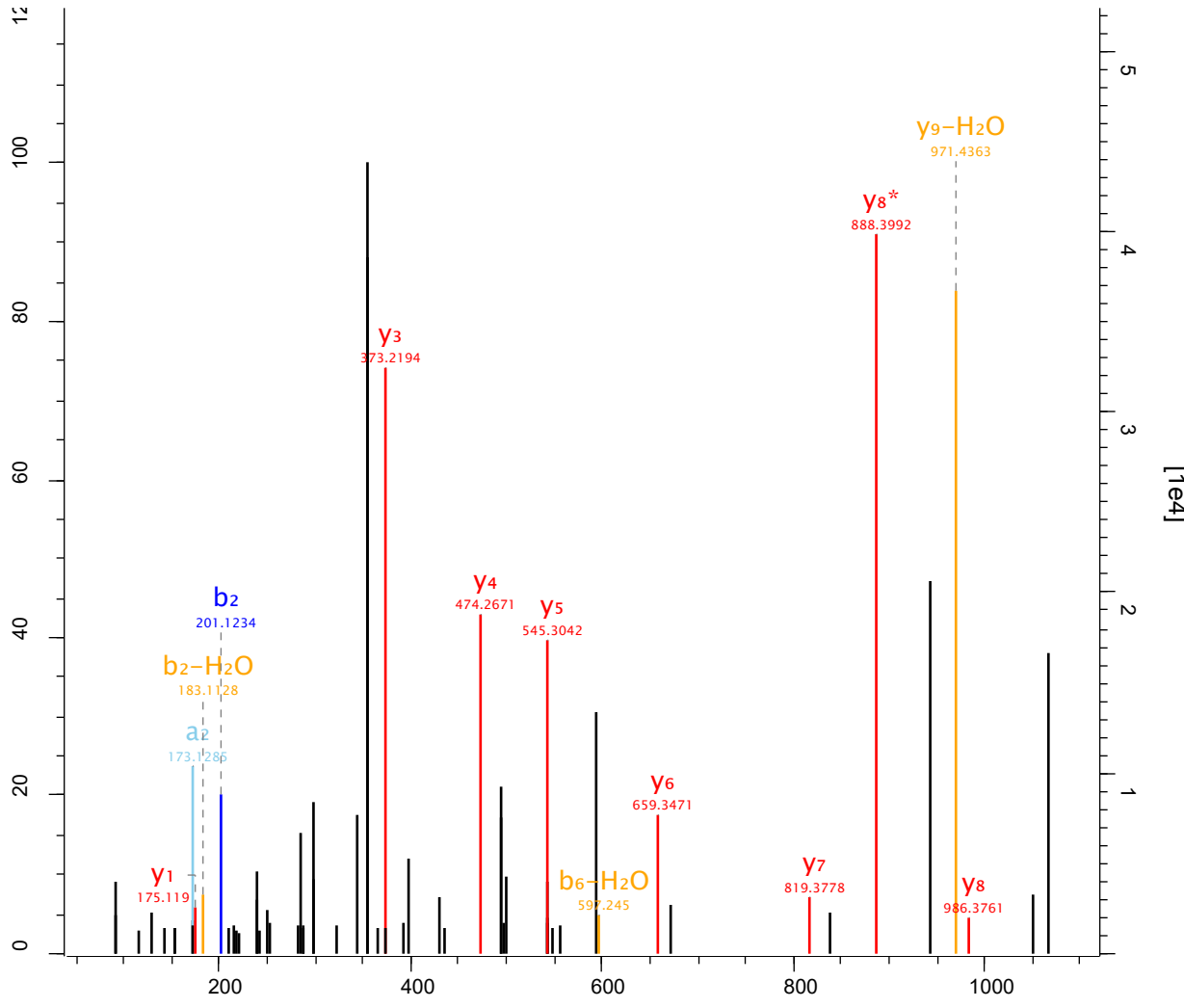
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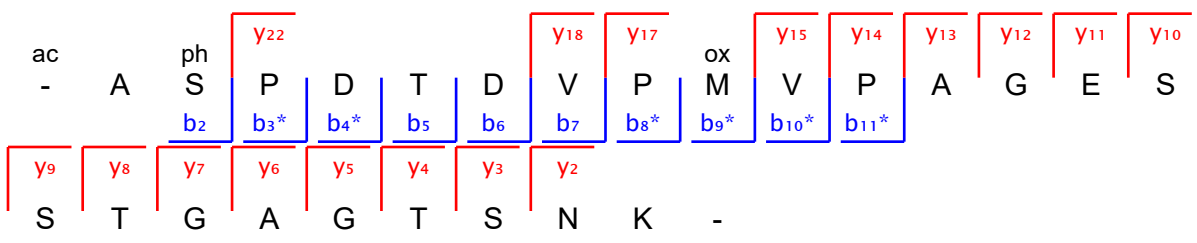
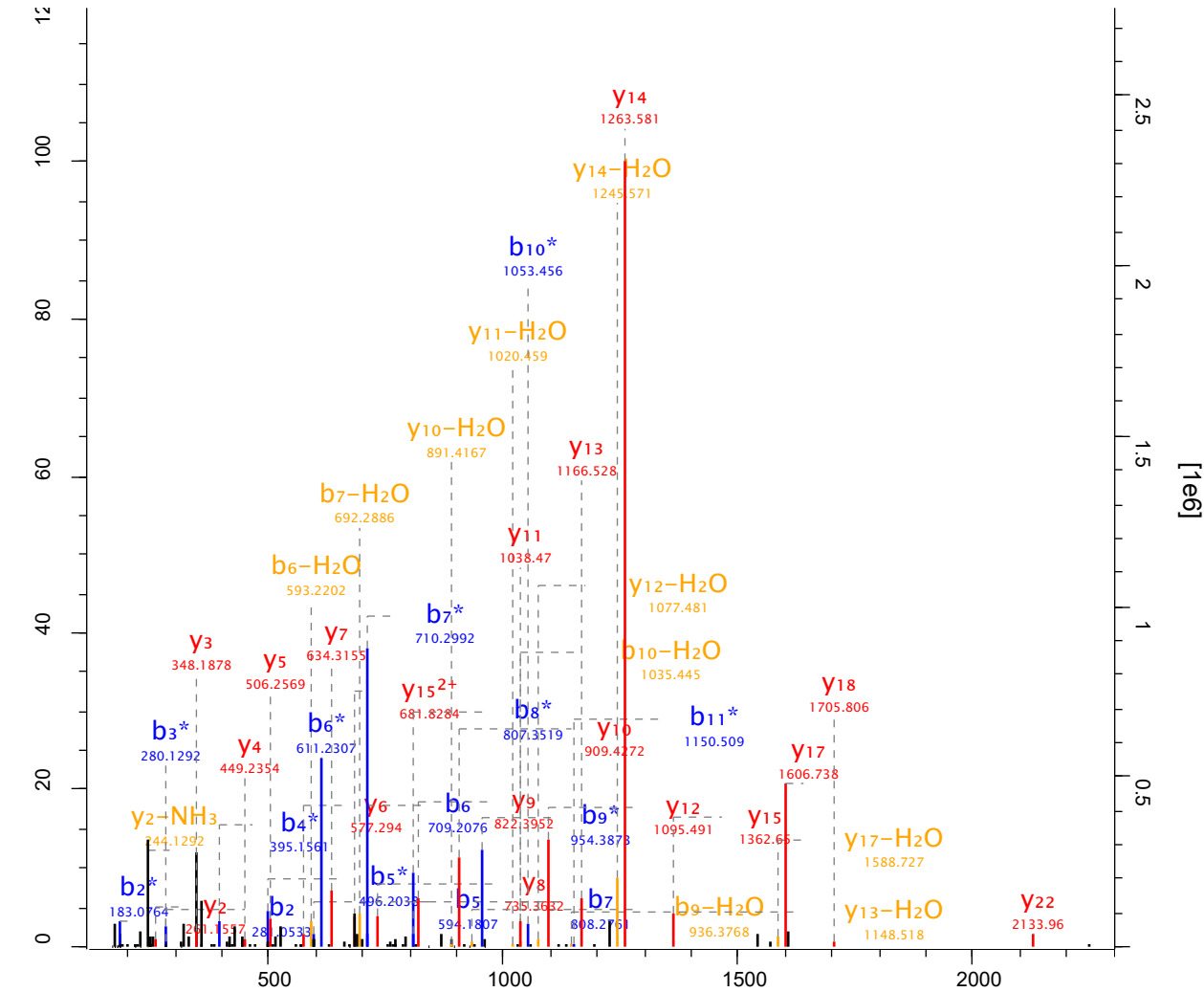
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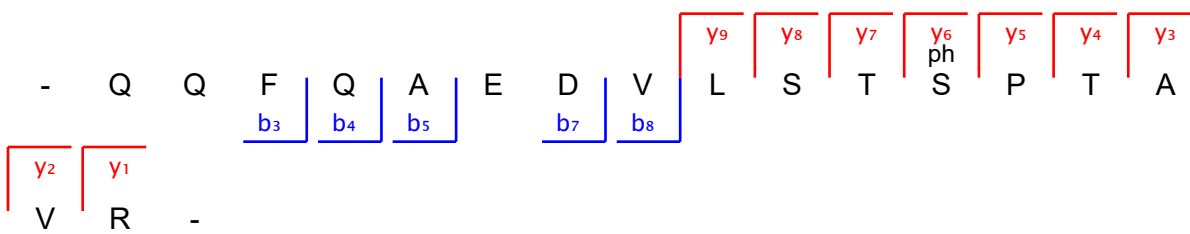
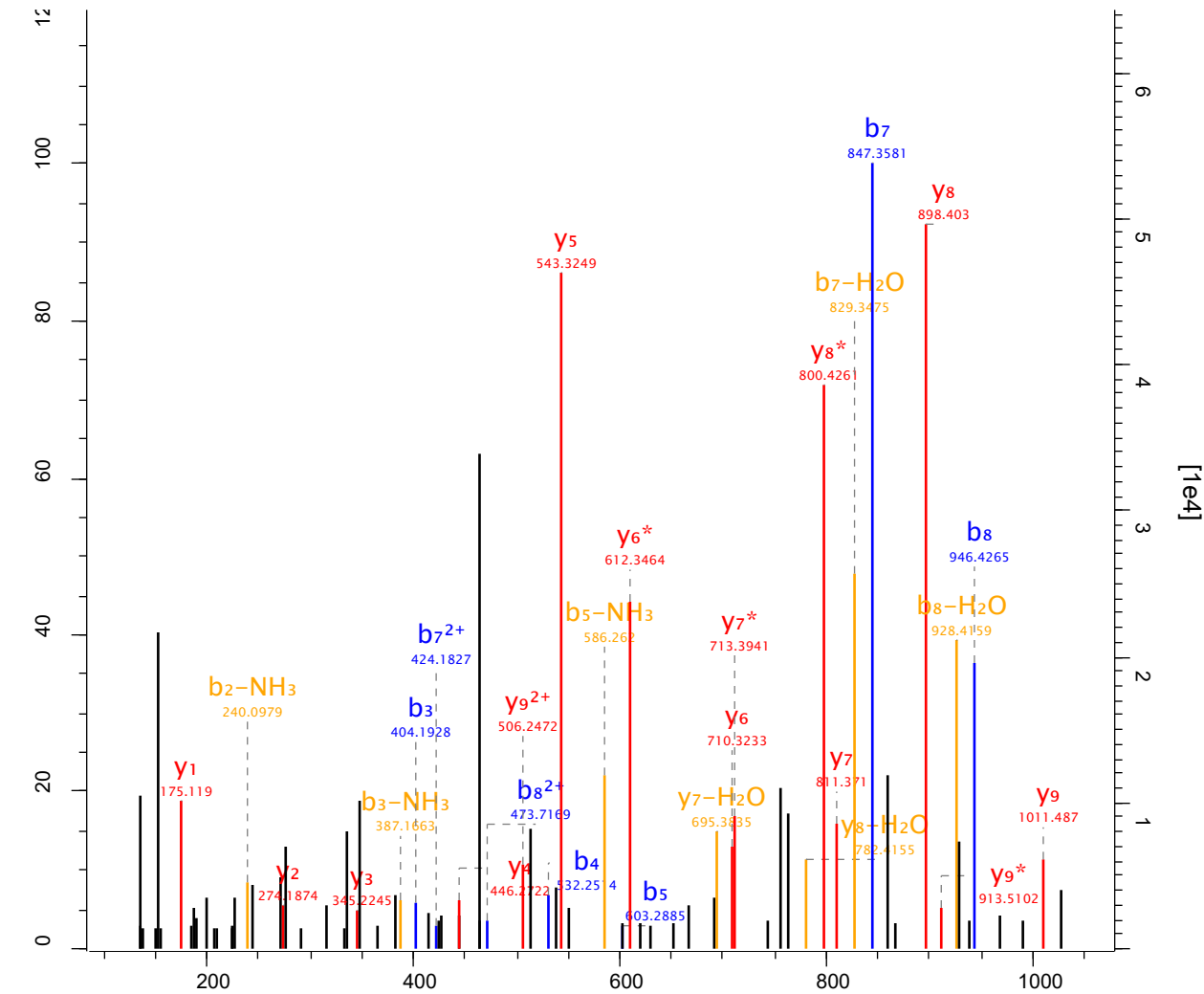
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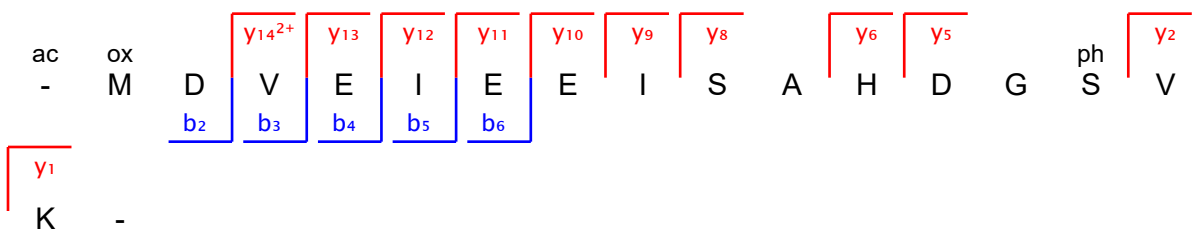
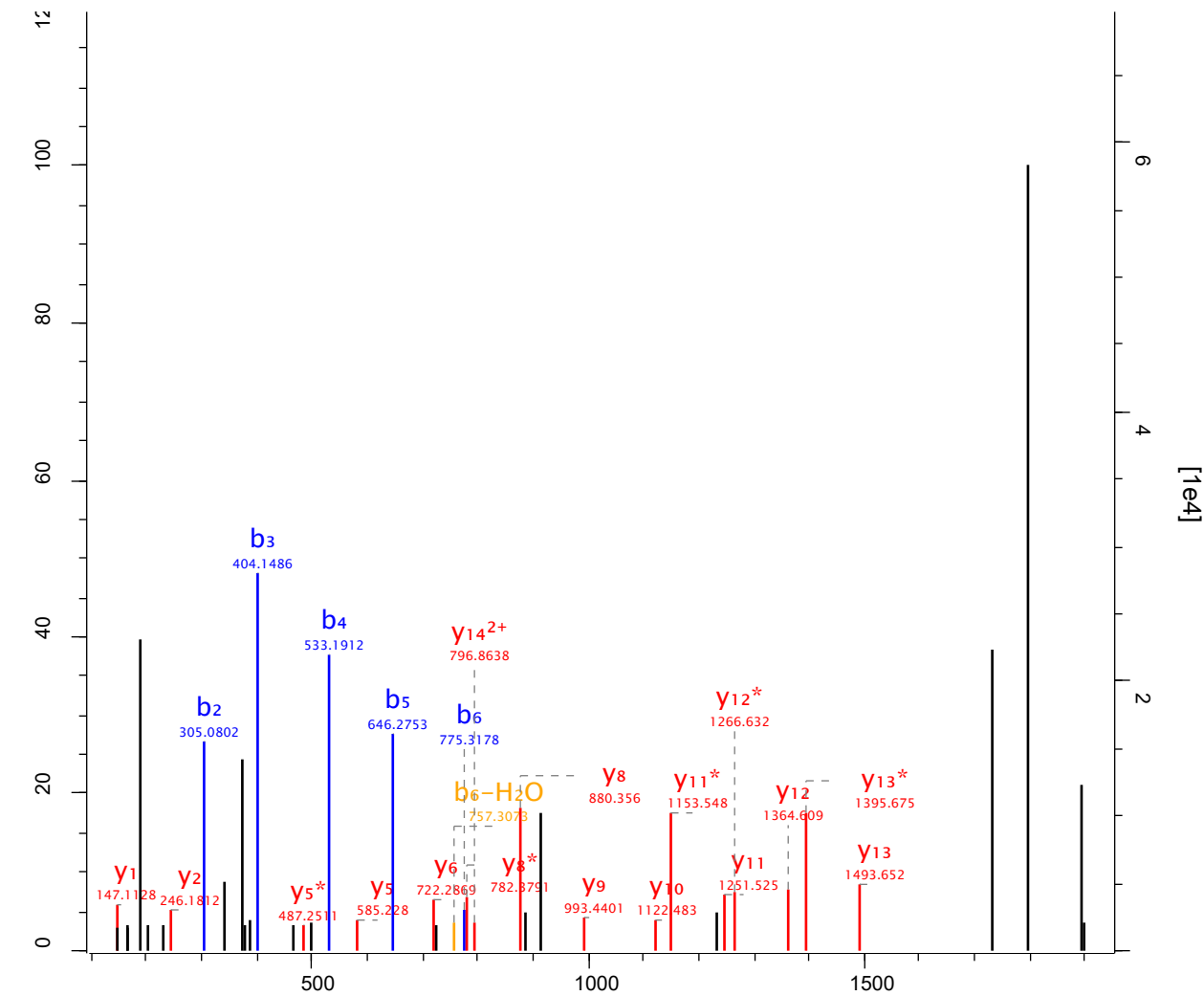
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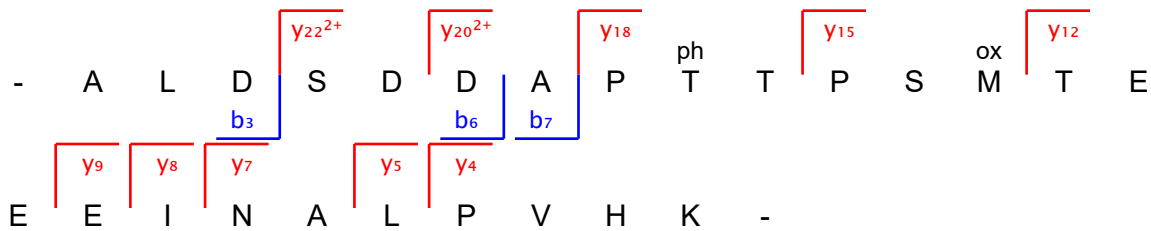
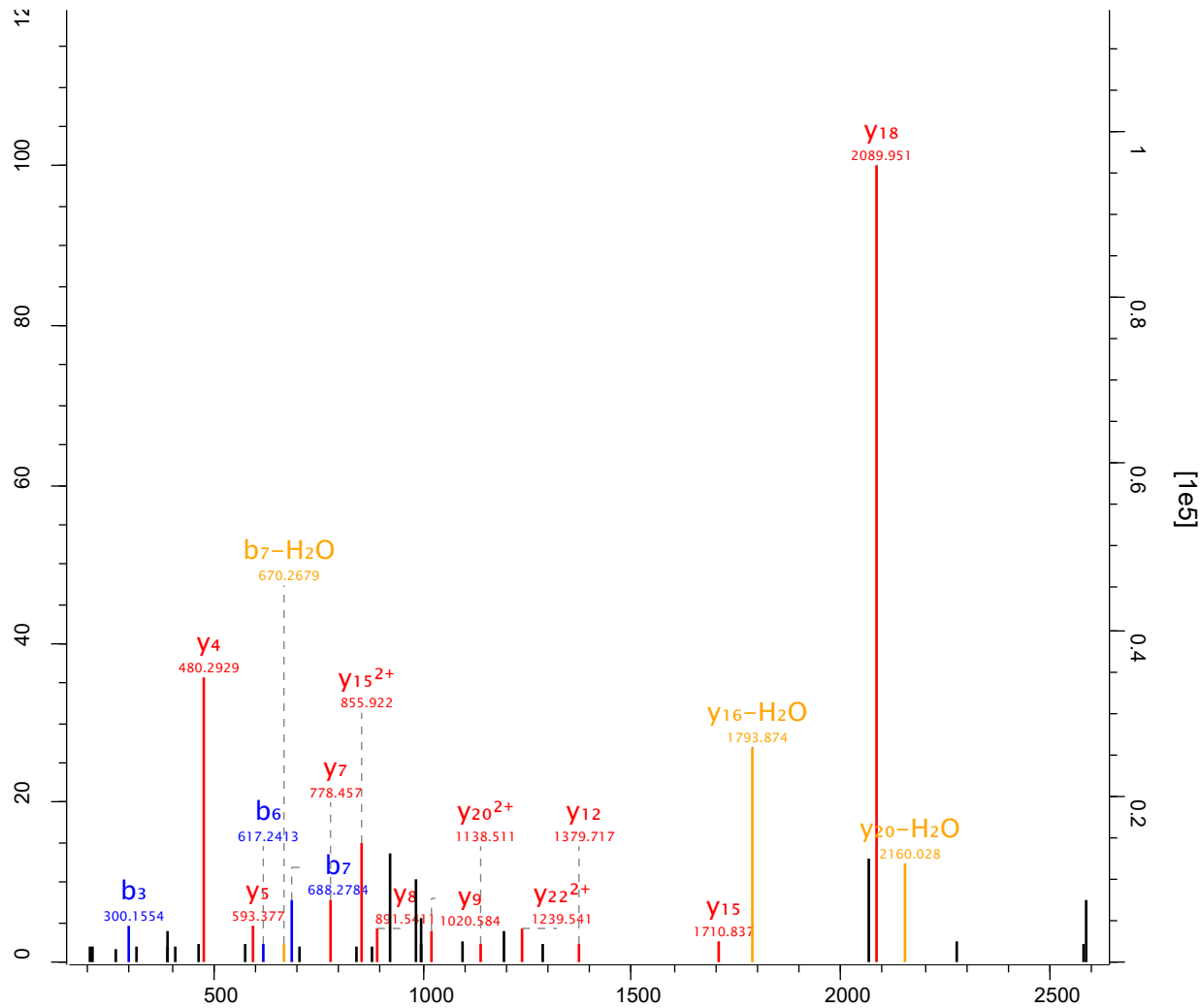
Raw file Scan Method Score m/z
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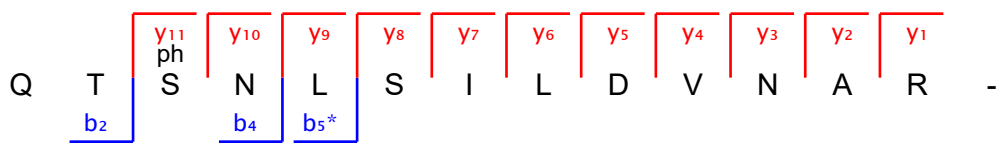
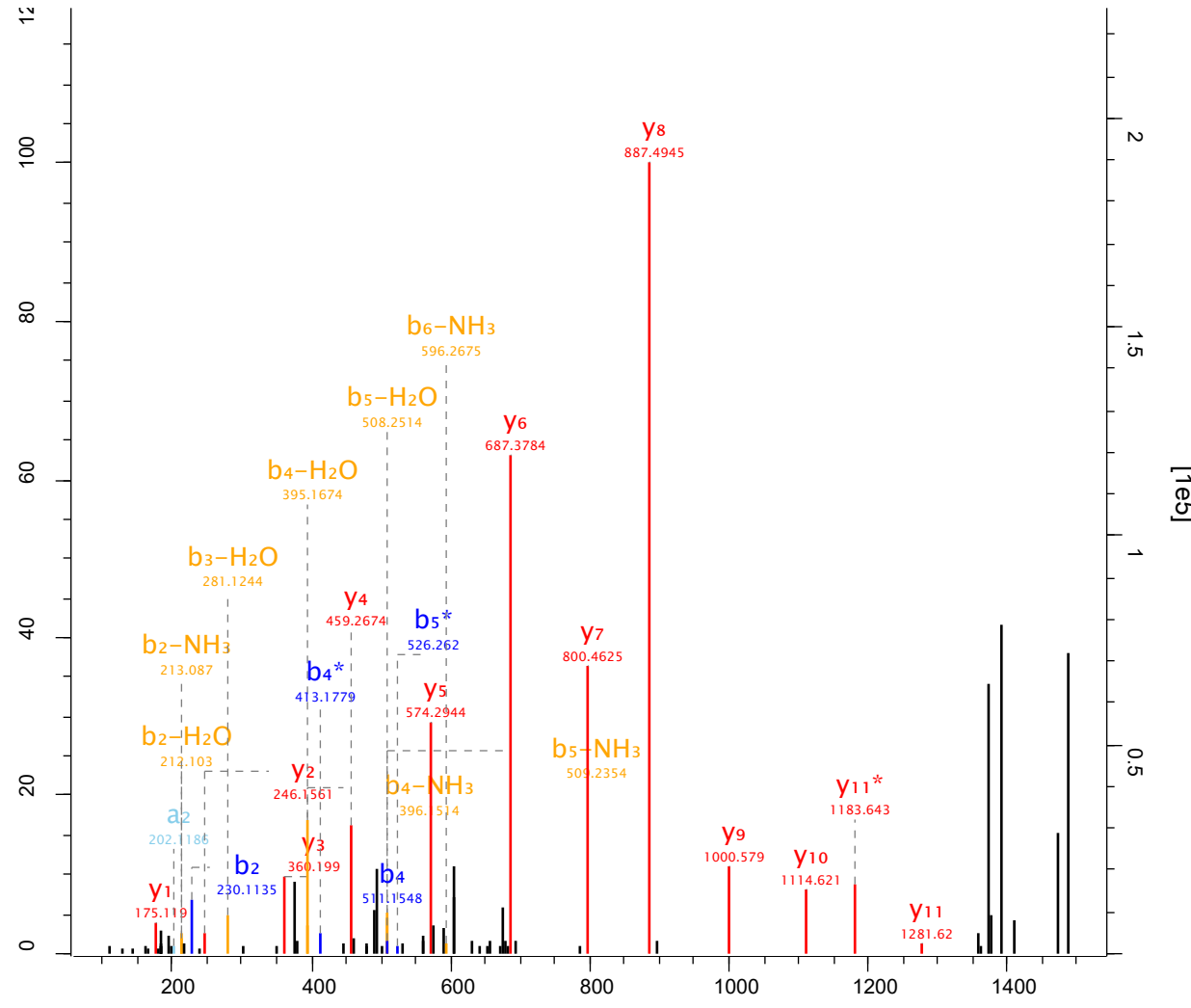
Raw file Scan Method Score m/z
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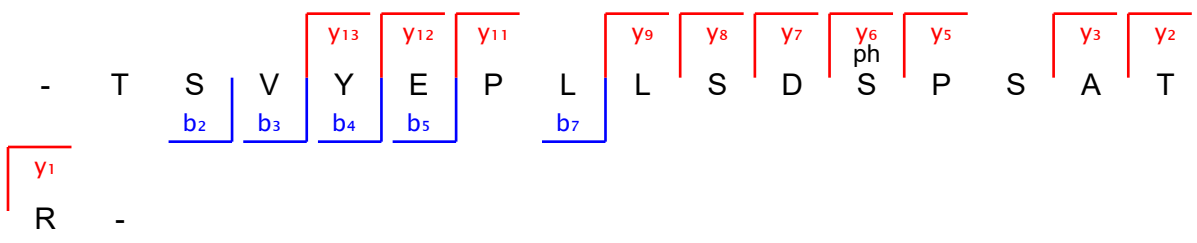
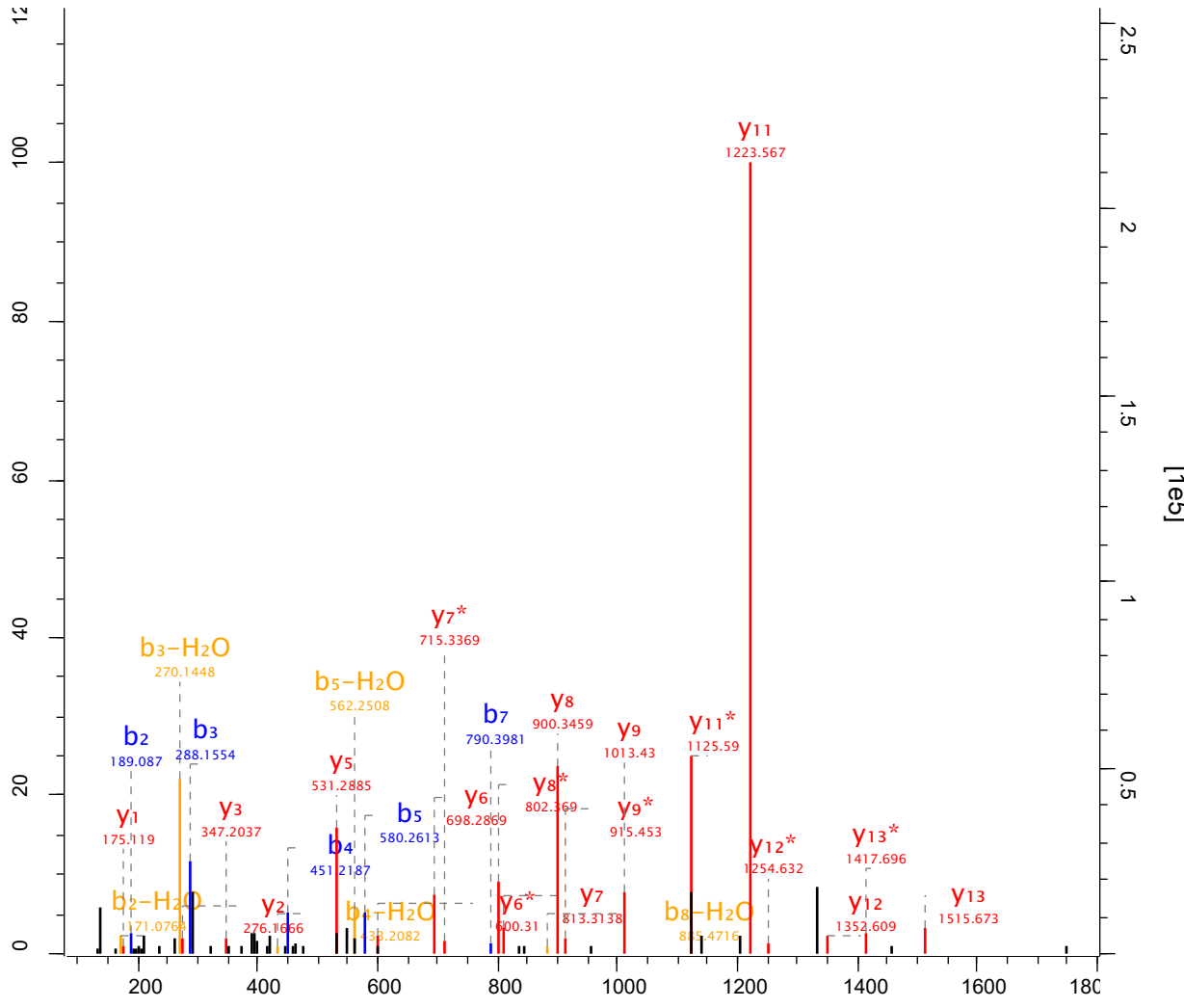
Raw file Scan Method Score m/z
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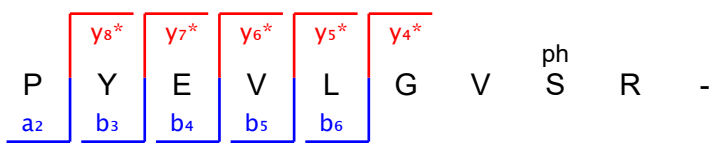
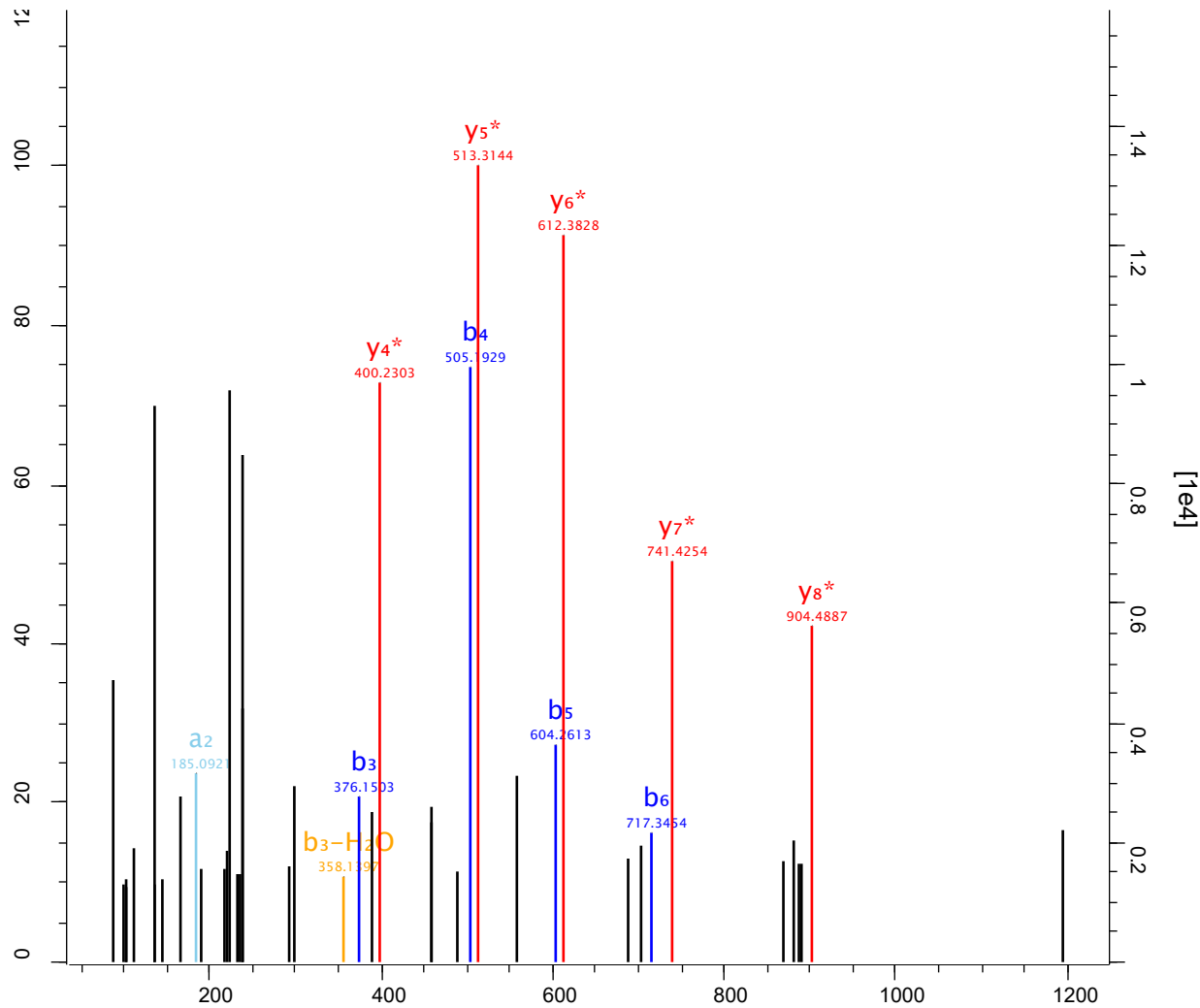
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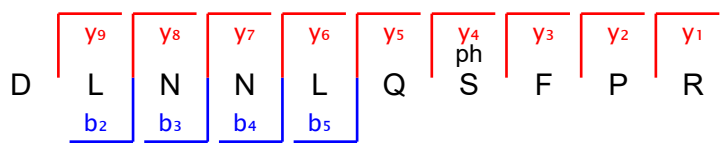
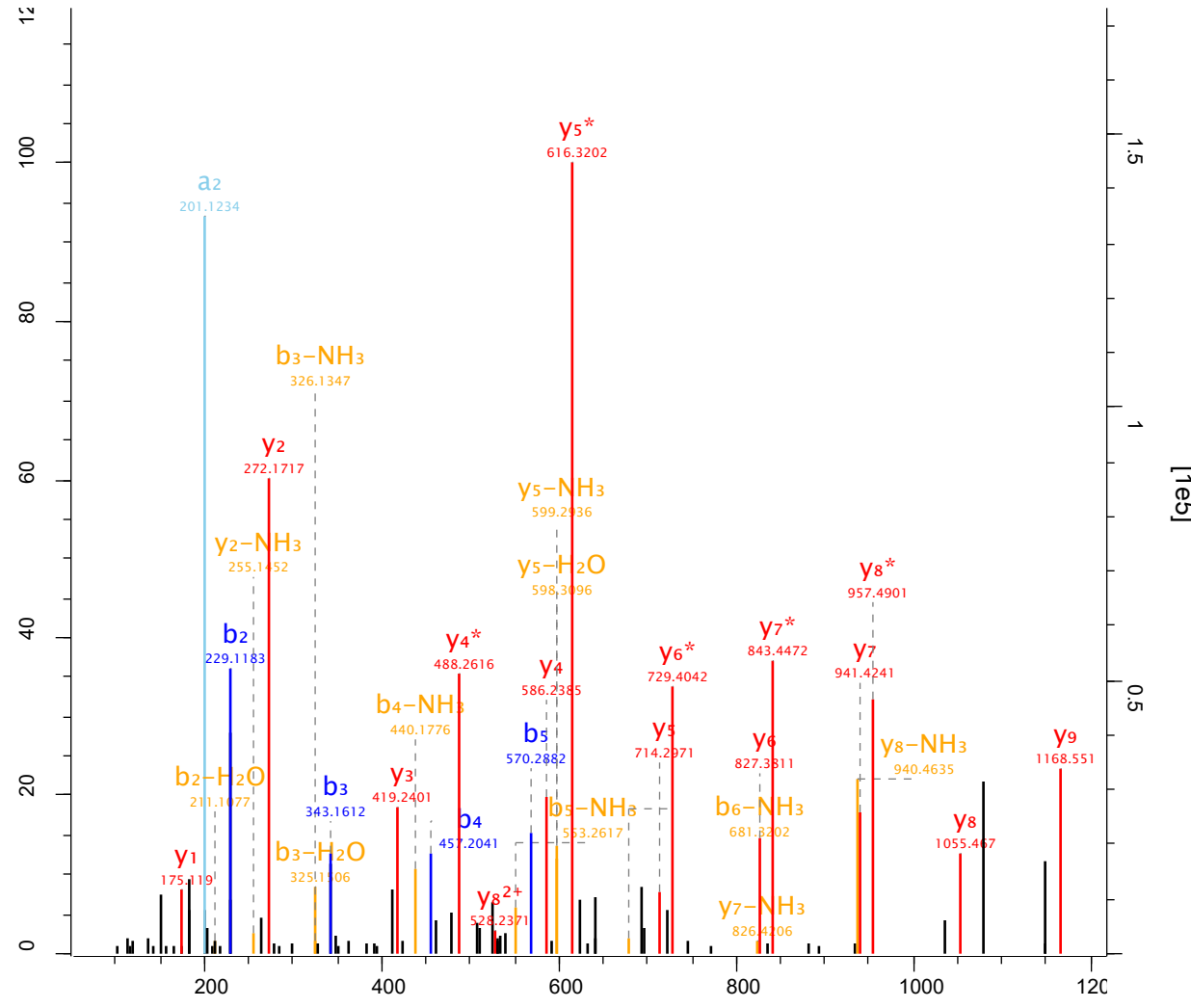
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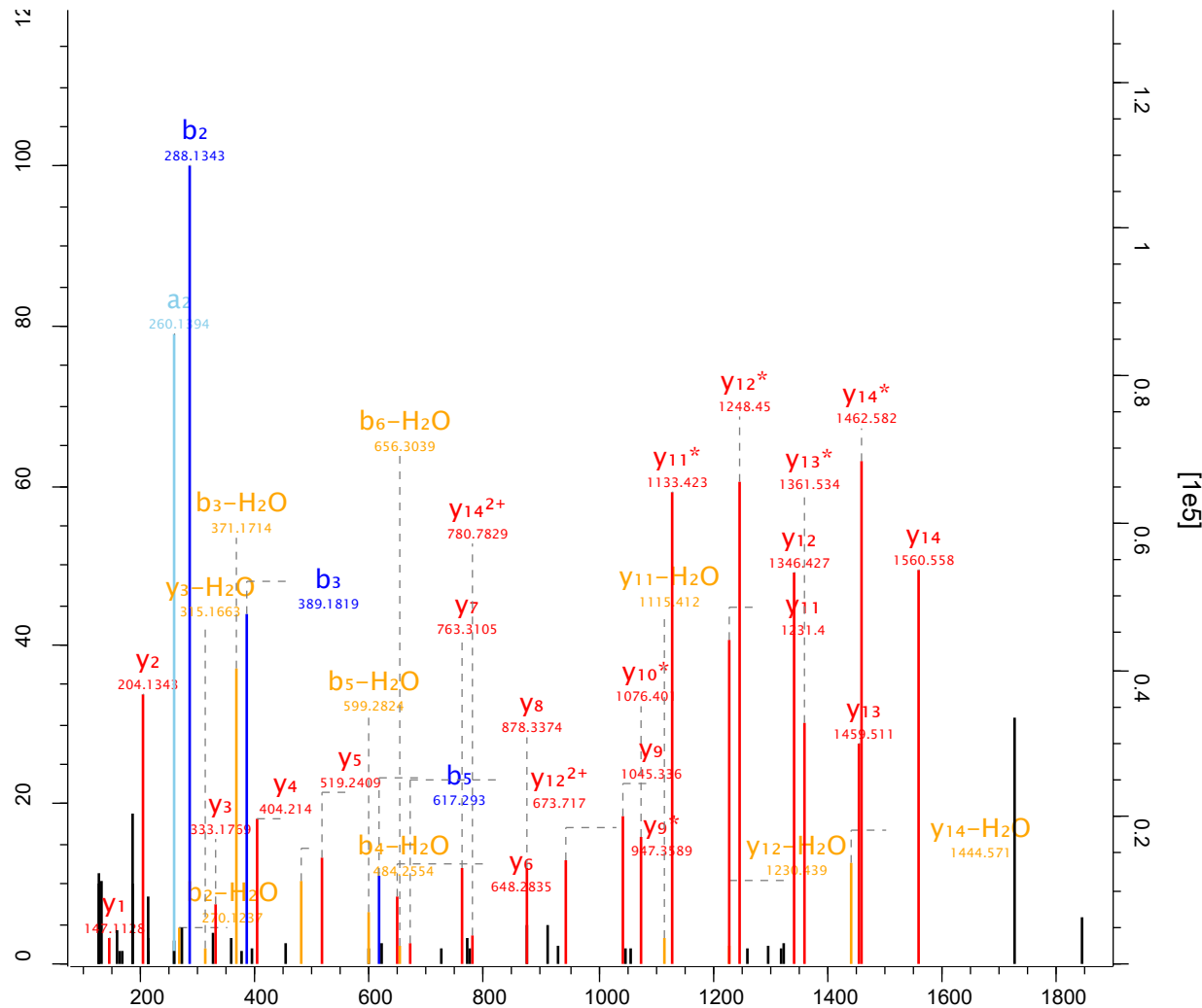
Raw file Scan Method Score m/z
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Raw file Scan Method Score m/z
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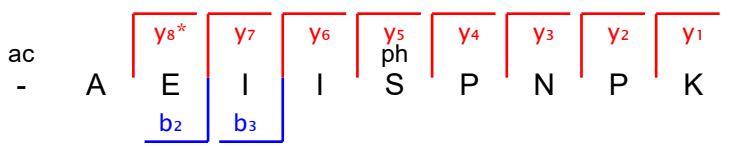
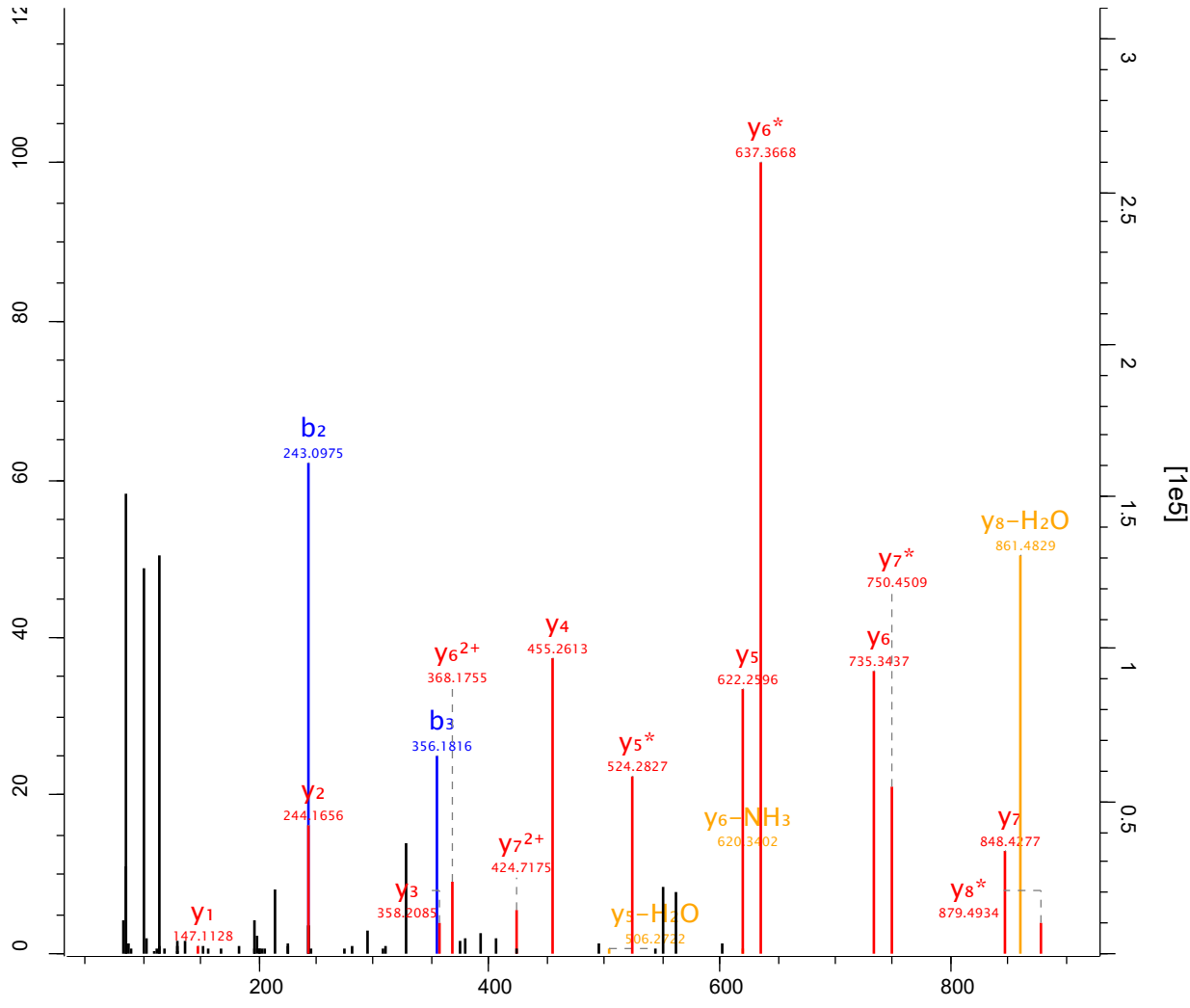


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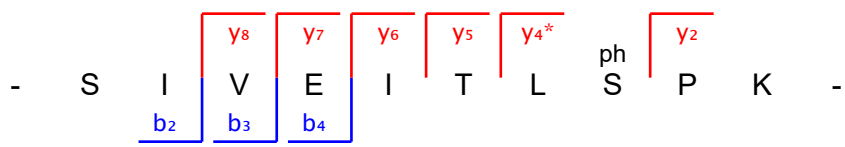
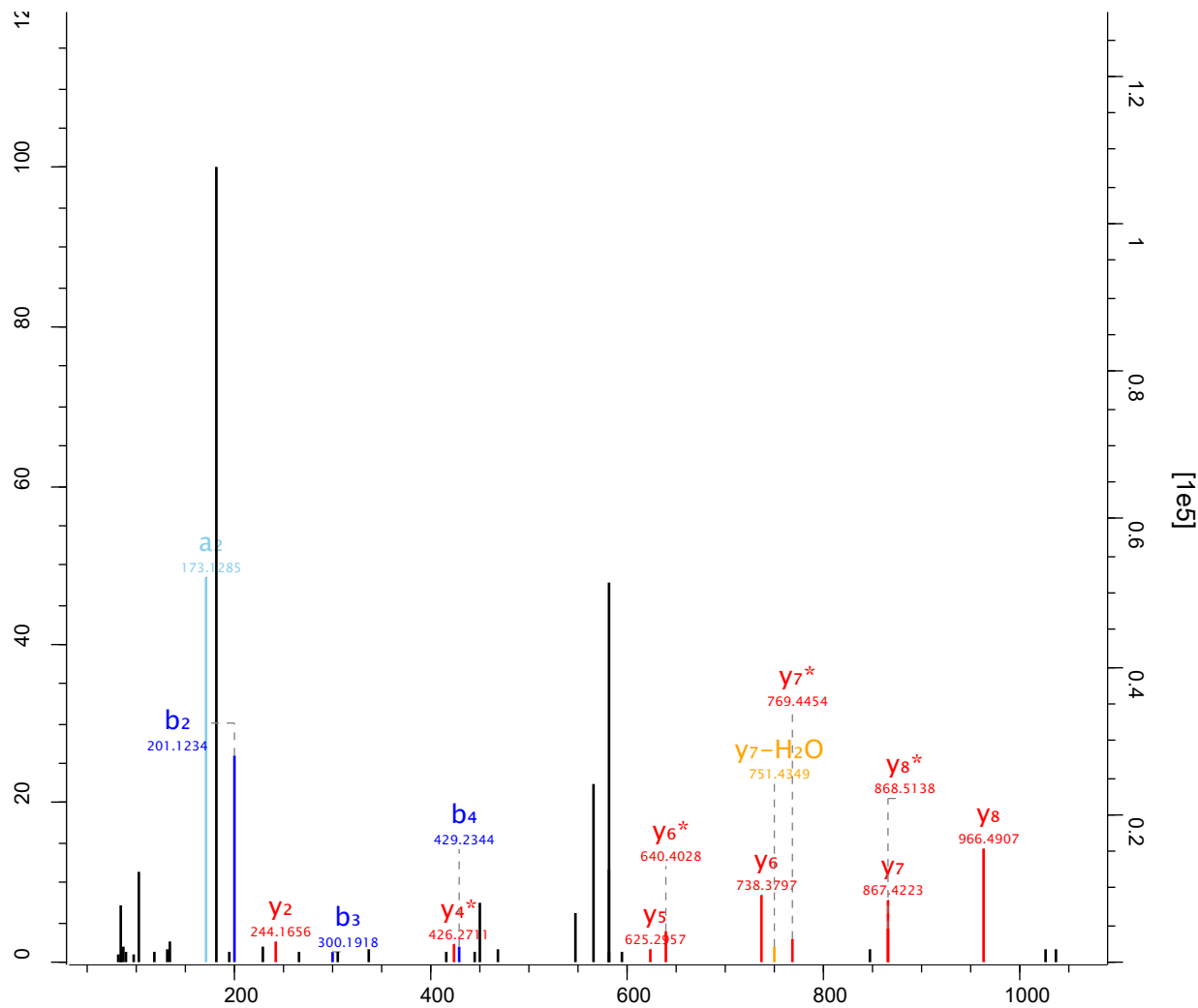


- T W T L D G E S D D E D A E G
 b2 b3 b5
 y1
 K -

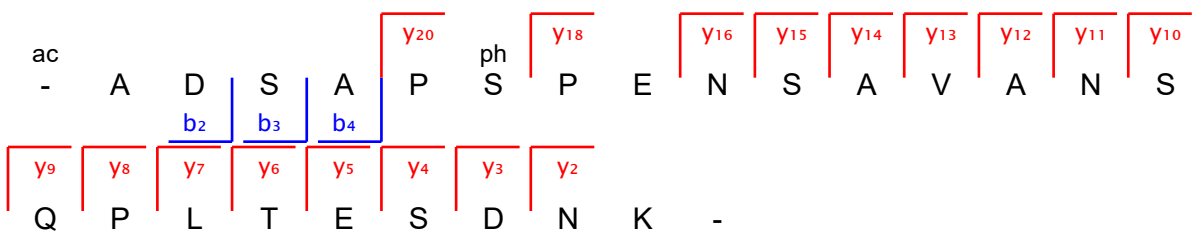
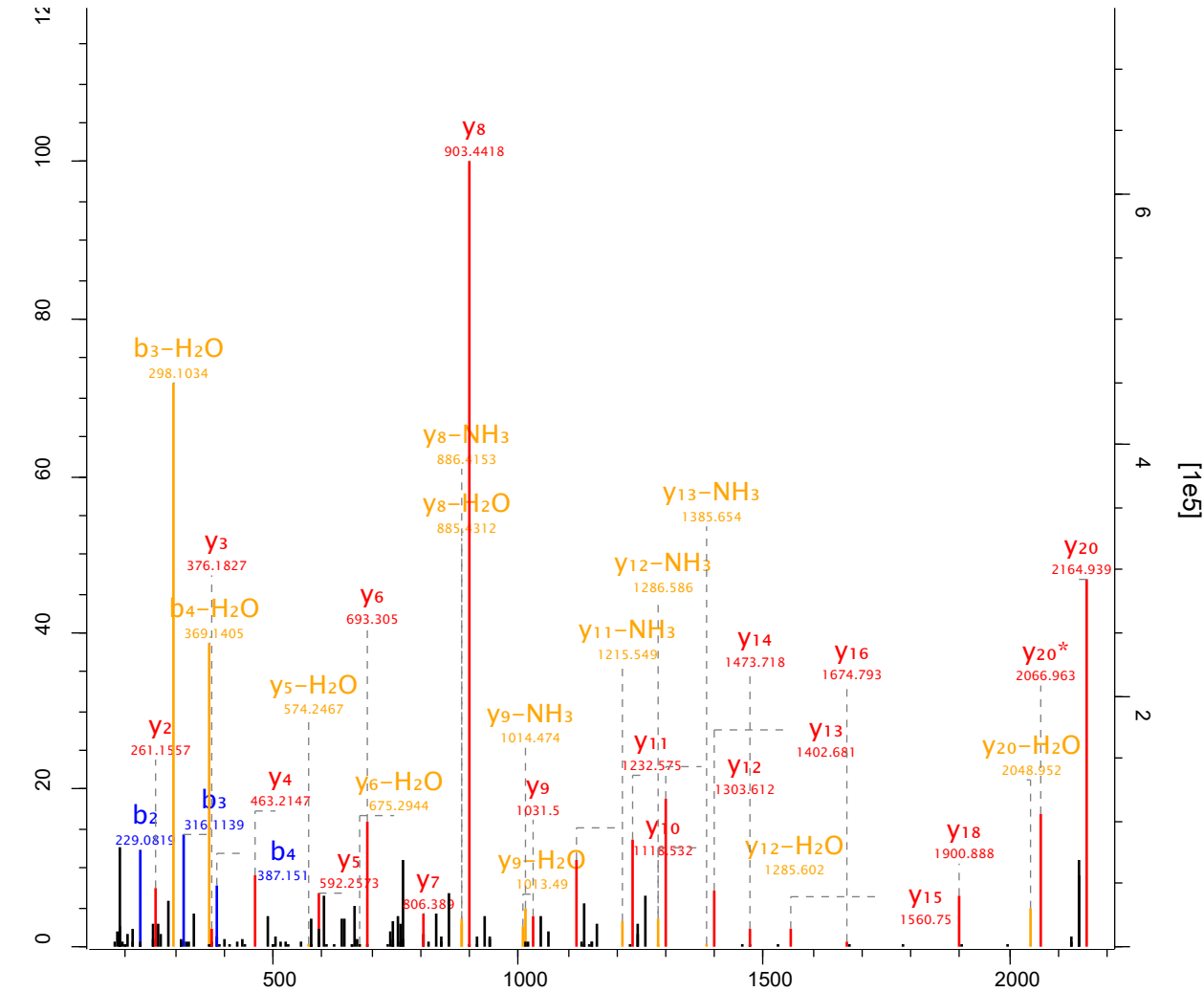
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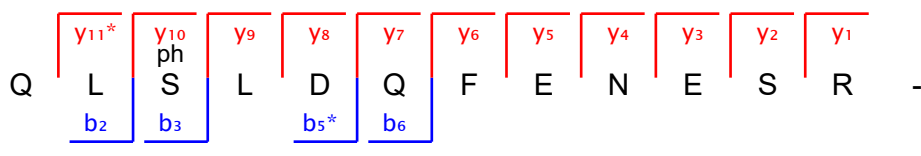
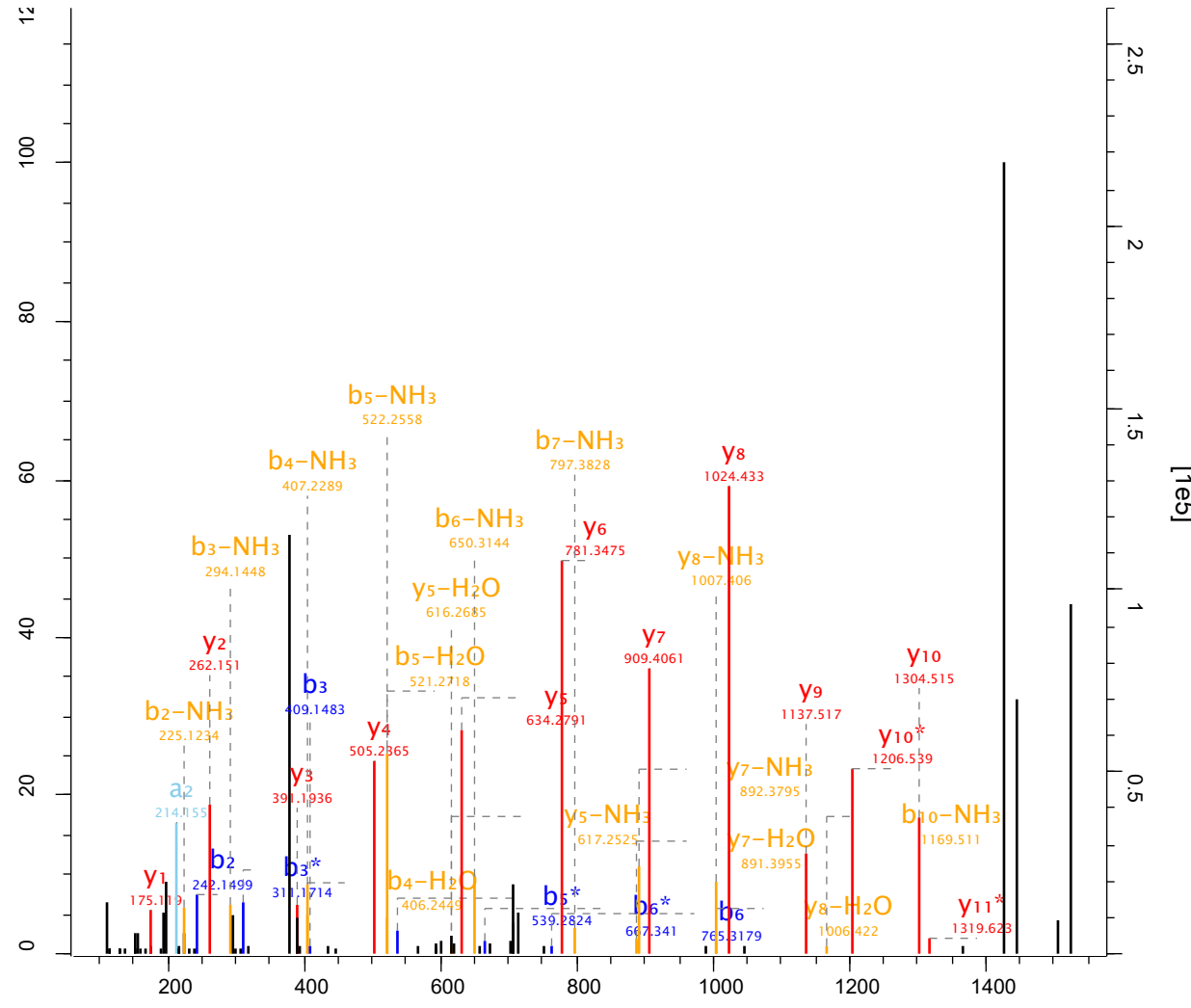
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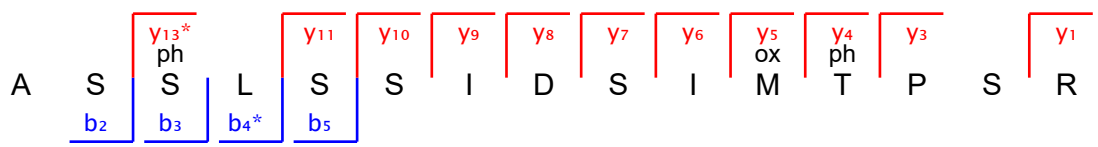
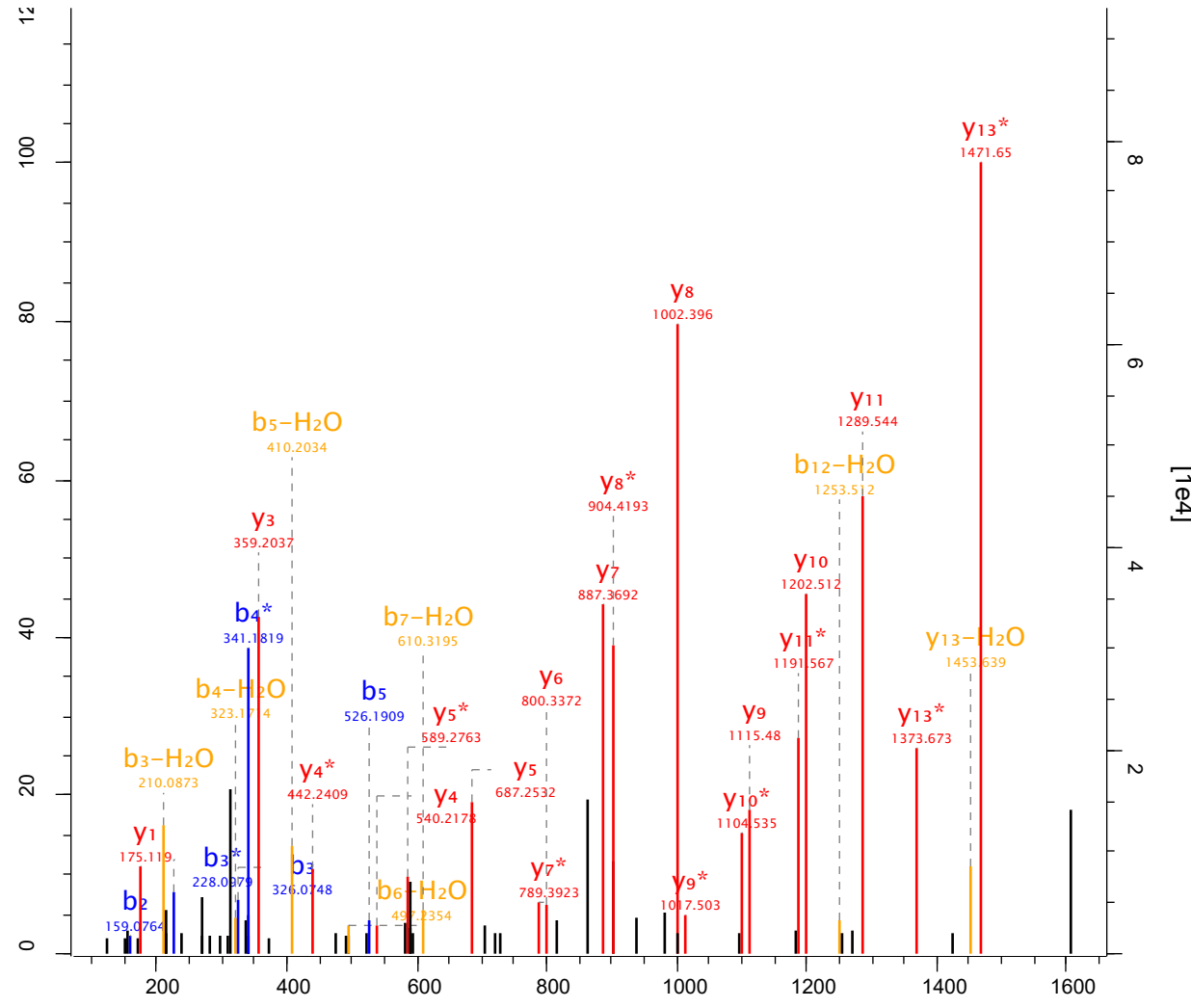
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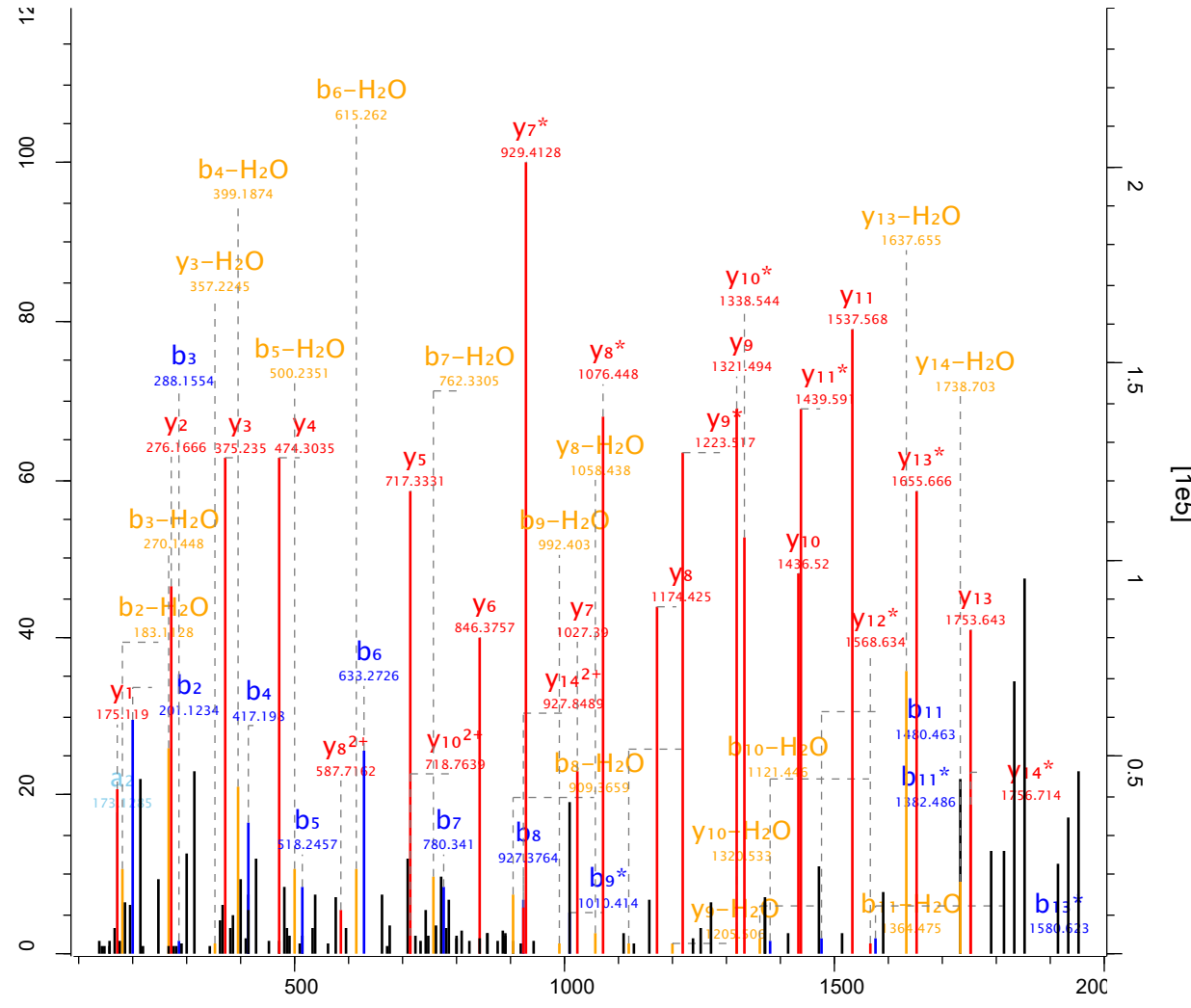
Raw file sys_15_1 Scan 30825 Method FTMS; HCD Score 154.69 m/z 773.33



Raw file Scan Method Score m/z
 sys_15_1 30853 FTMS; HCD 140.73 864.35

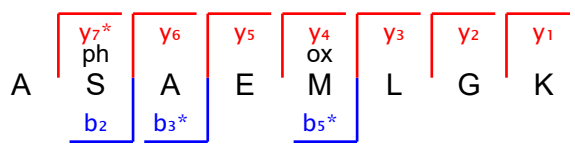
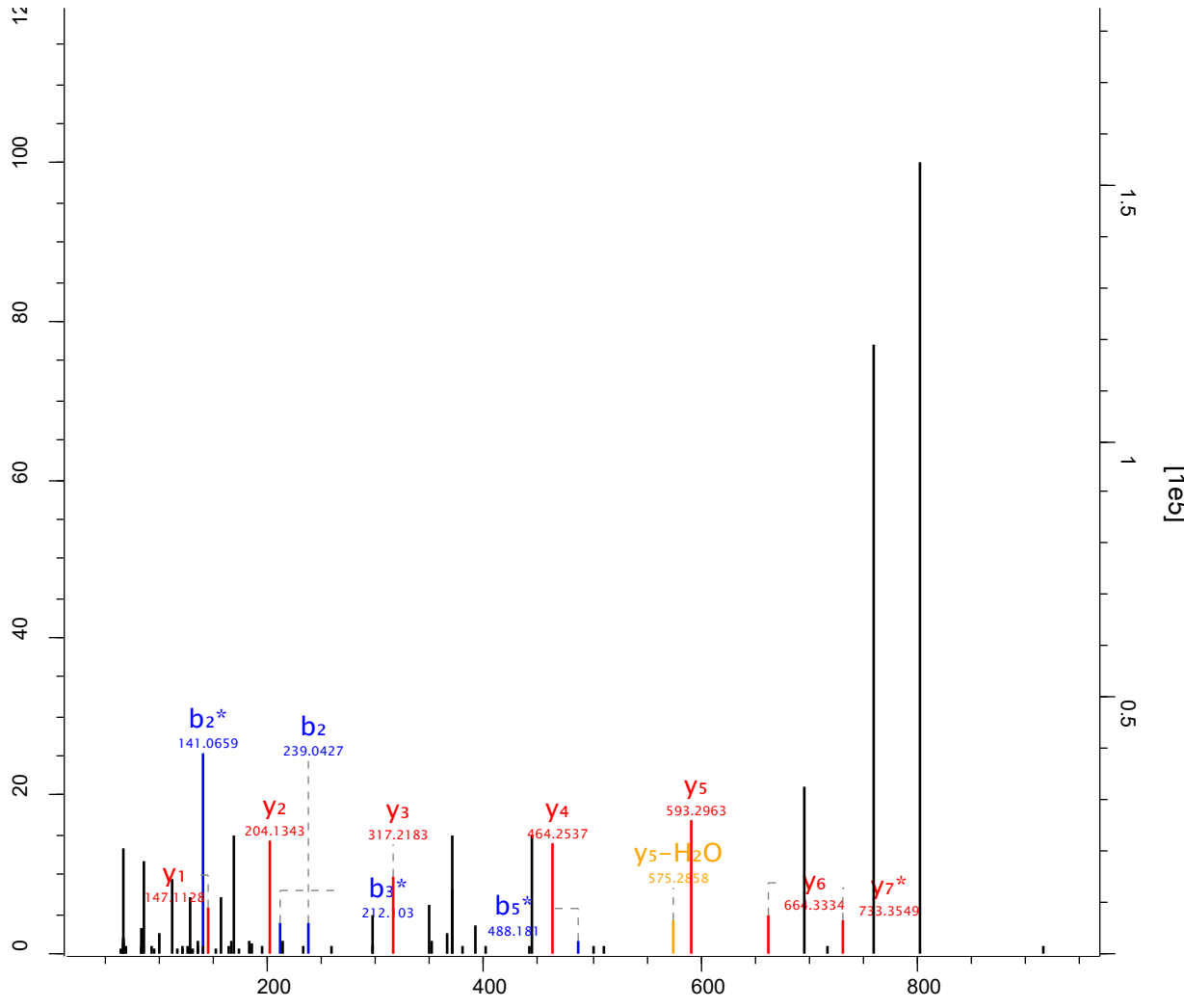


Raw file Scan Method Score m/z
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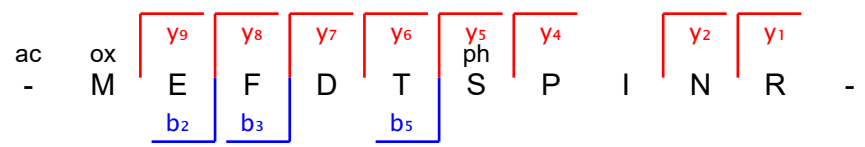
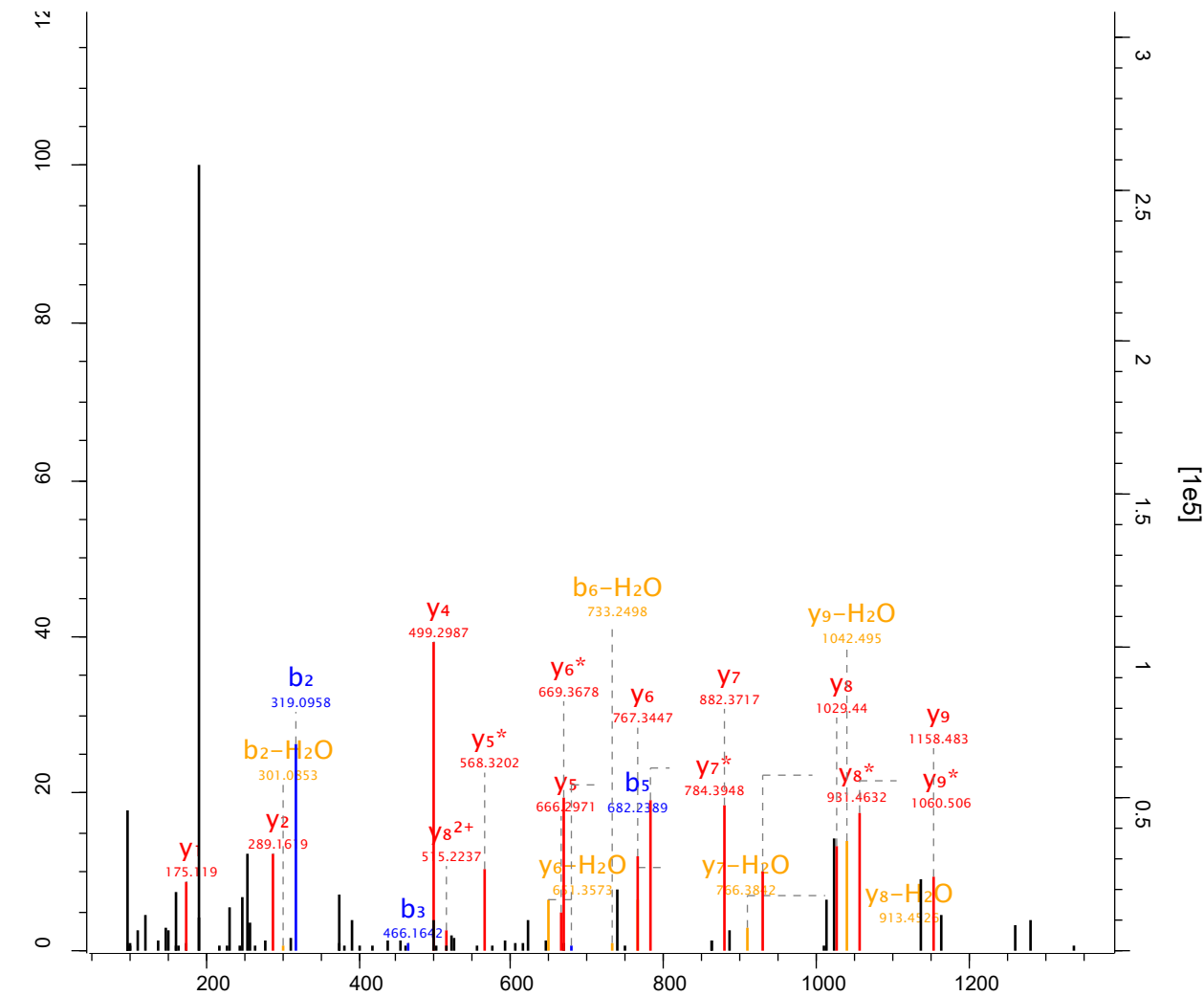


V T S E T D F M T E Y V V T R
 b₂ b₃ b₄ b₅ b₆ b₇ b₈ b₉^{*} b₁₁ b₁₃^{*}

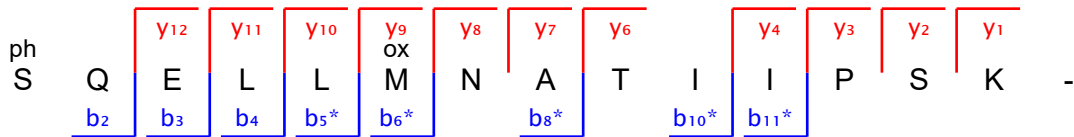
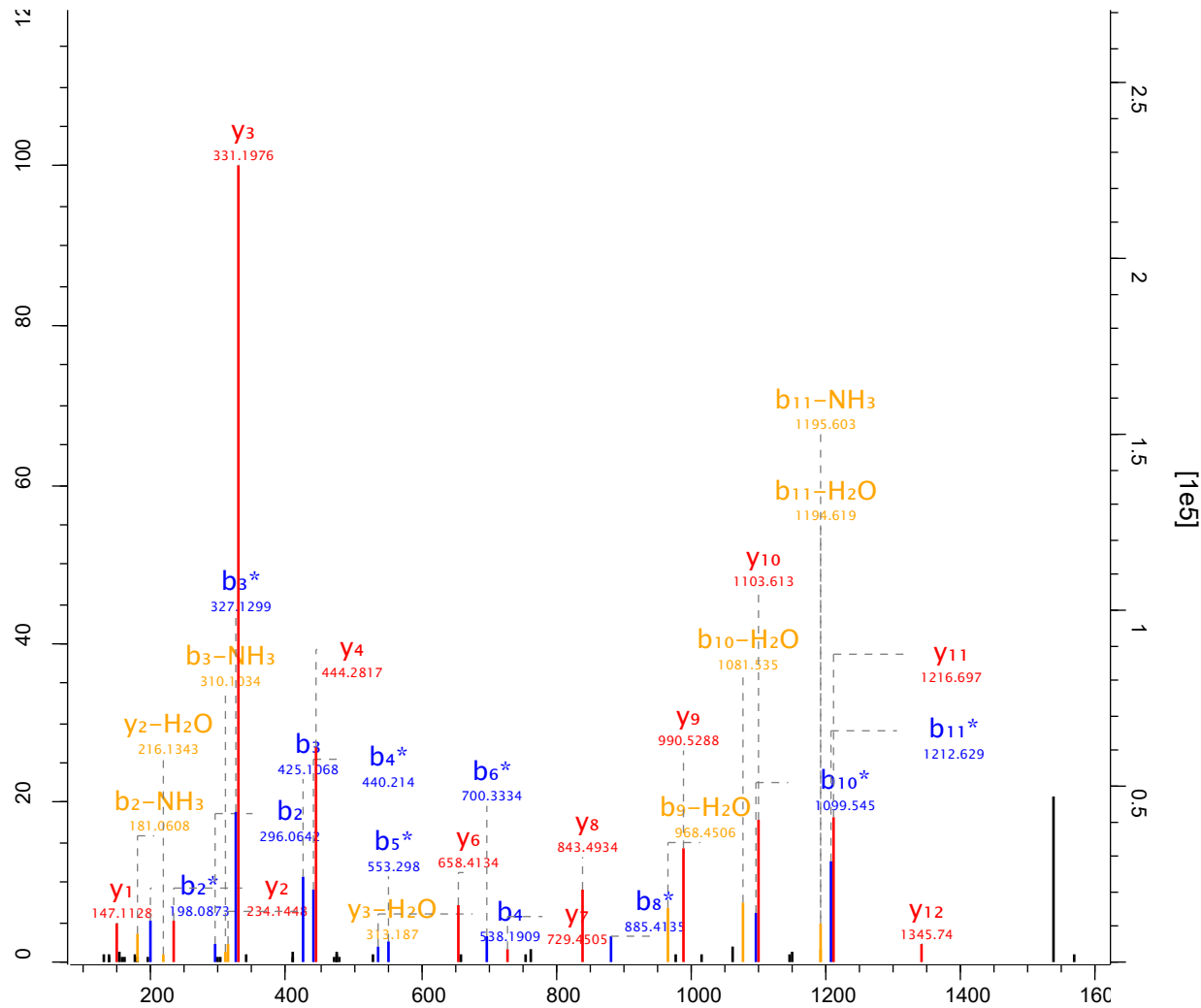
Raw file Scan Method Score m/z
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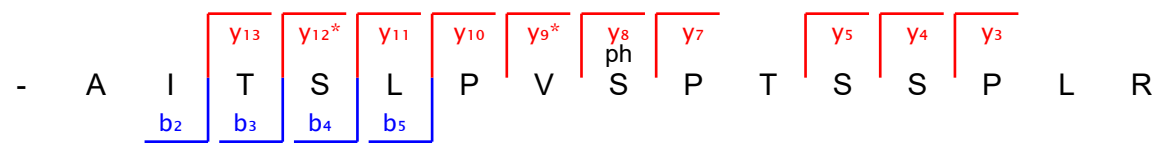
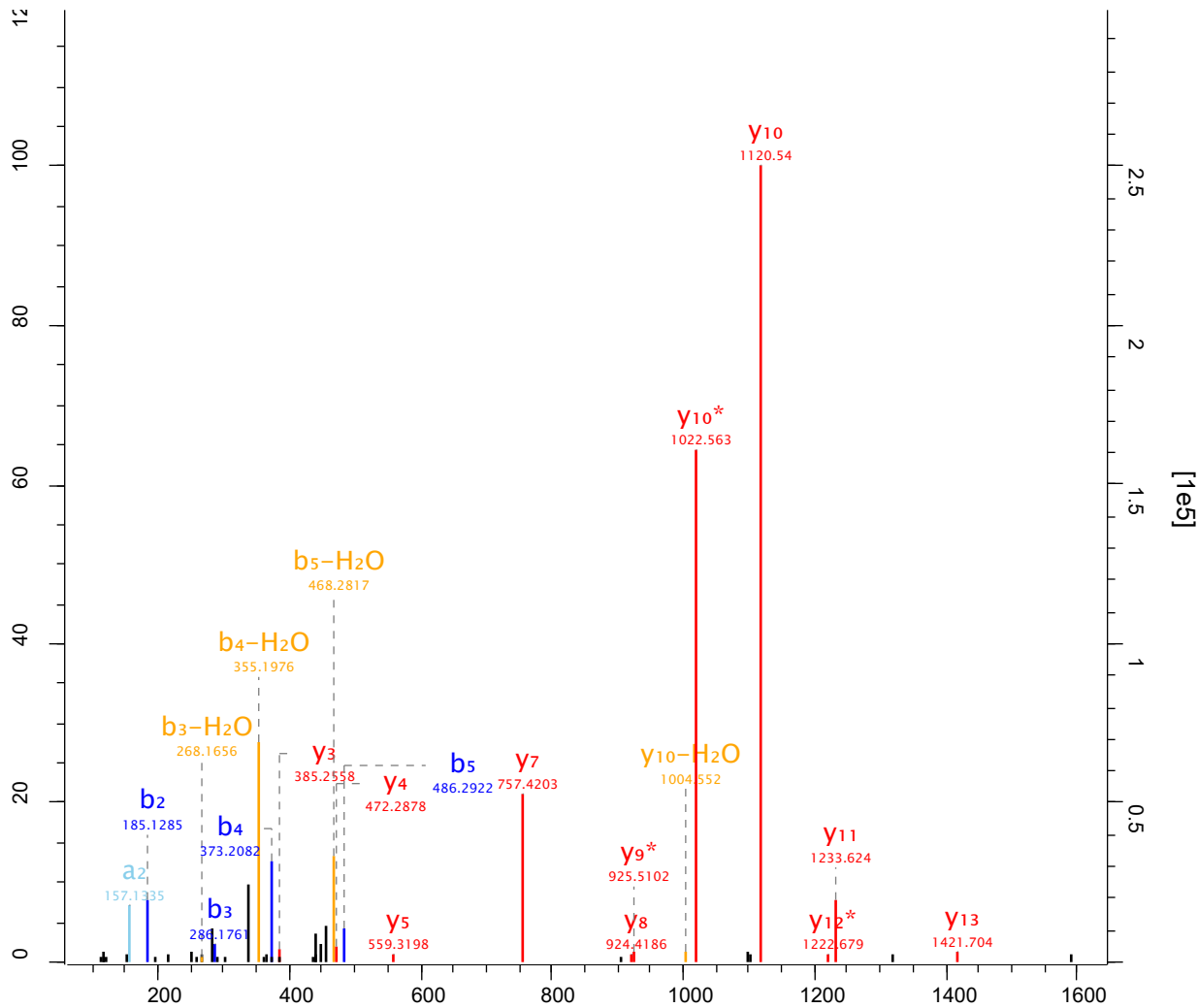
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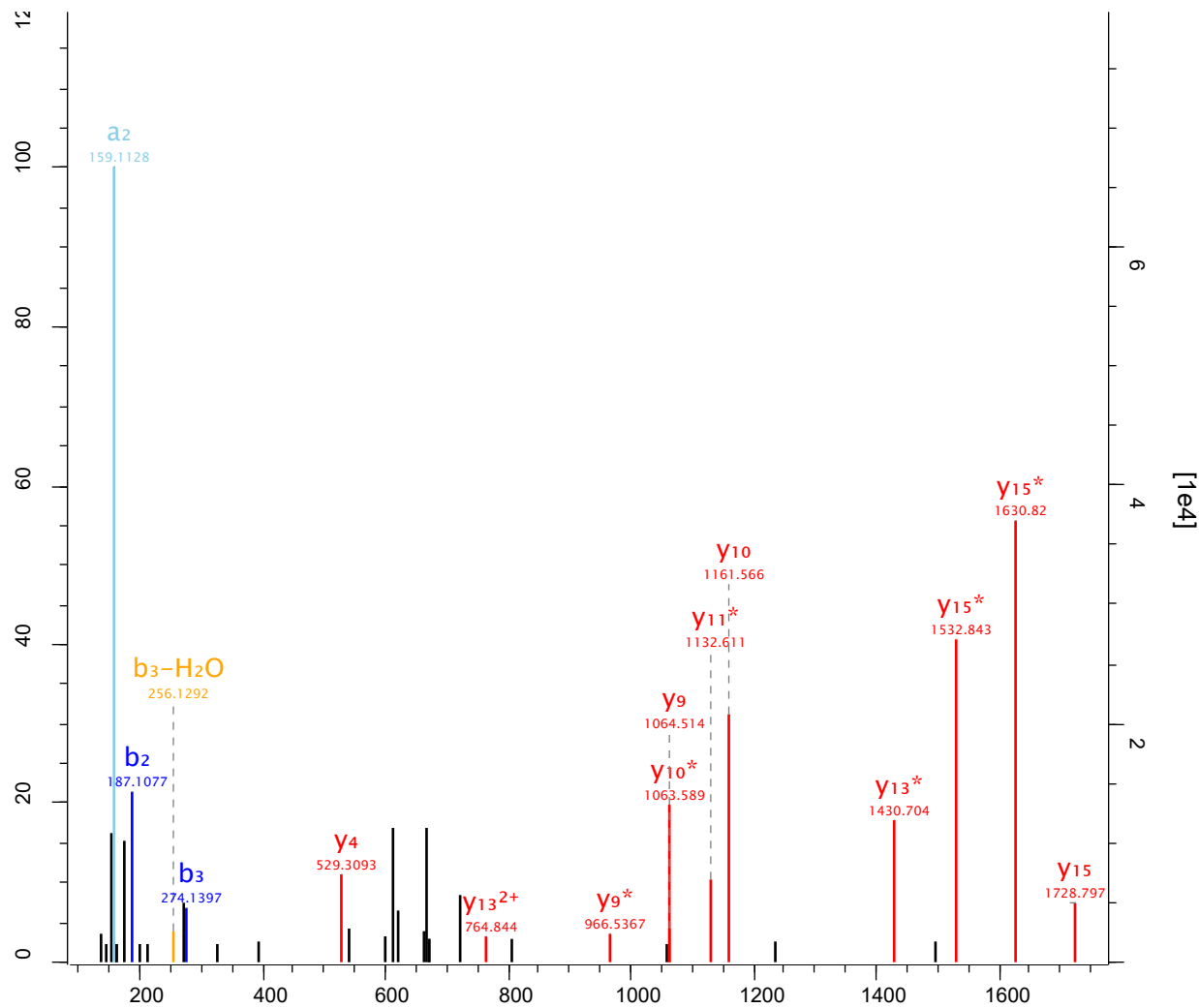
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Raw file Scan Method Score m/z
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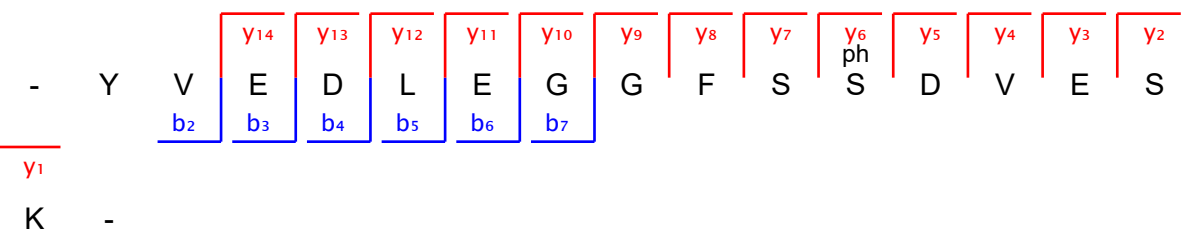
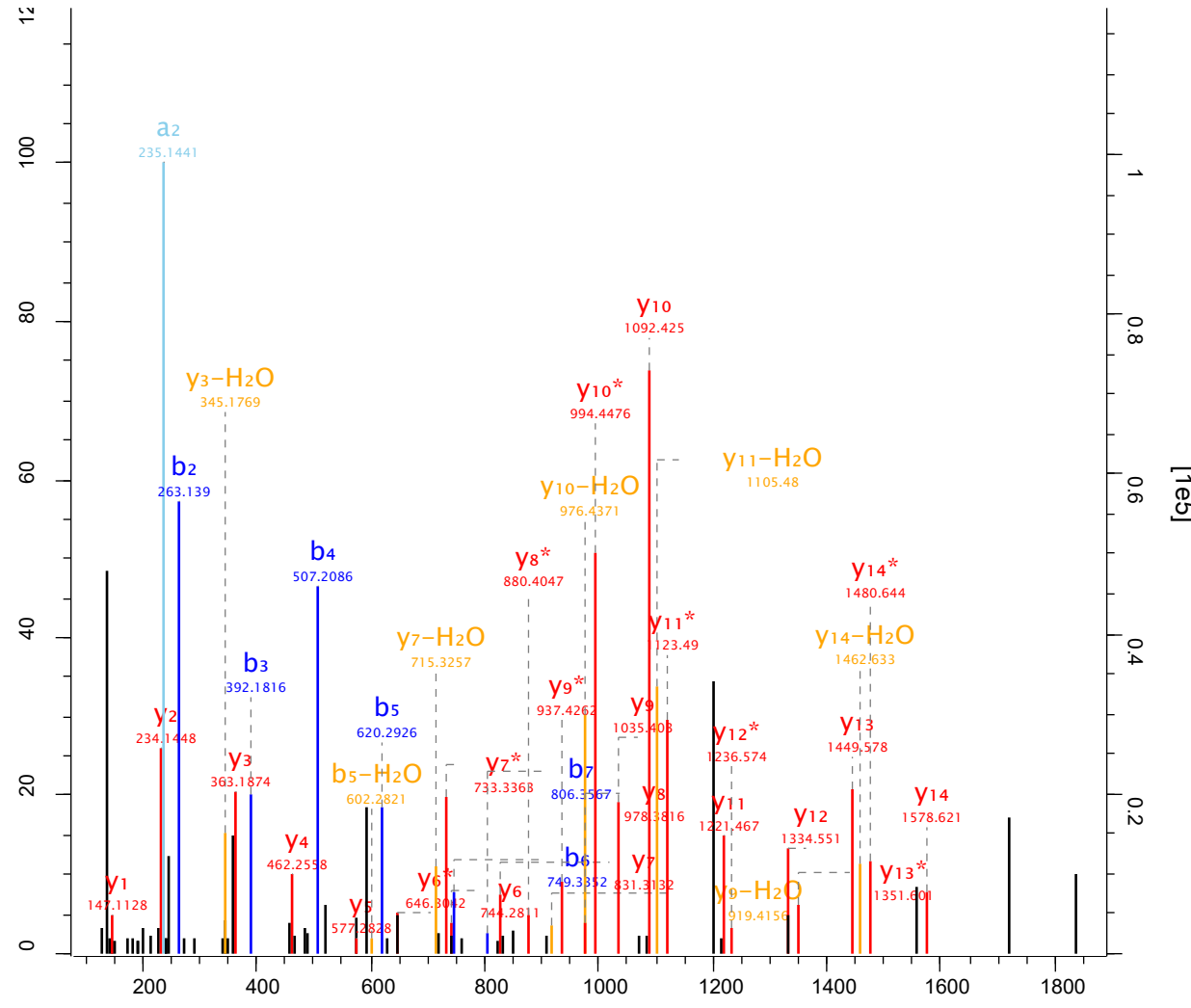
Raw file Scan Method Score m/z
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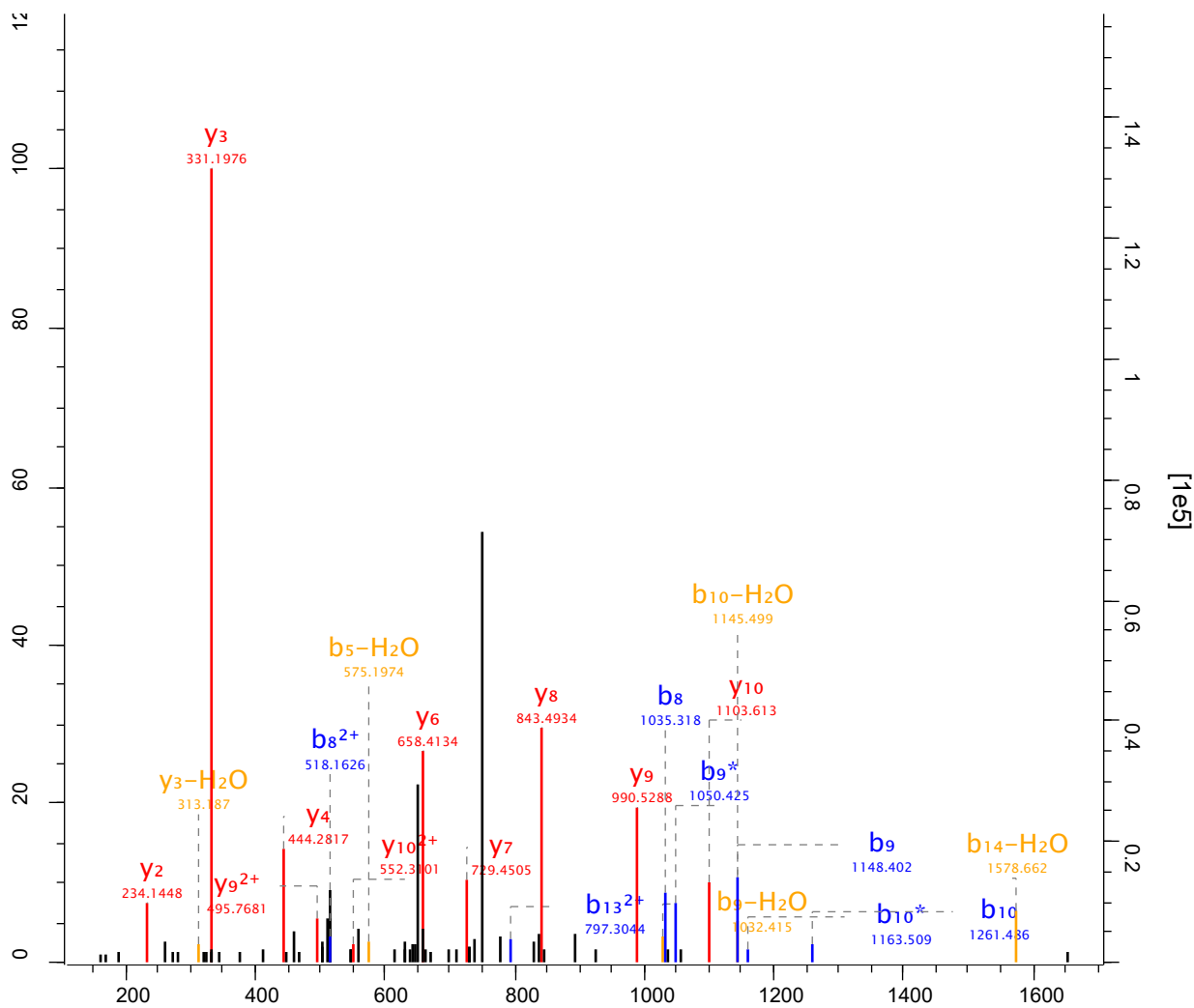
- S V S L S I S P P A S L S P E
 R K -

Fragmentation mapping:
 - b2: V-S
 - b3: S-L
 - y15: S-P
 - y13*: S-L
 - y11*: S-P
 - y10: P-P
 - y9: P-P
 - y4: S-P

Raw file Scan Method Score m/z
 sys_15_1 31482 FTMS; HCD 227.95 920.88

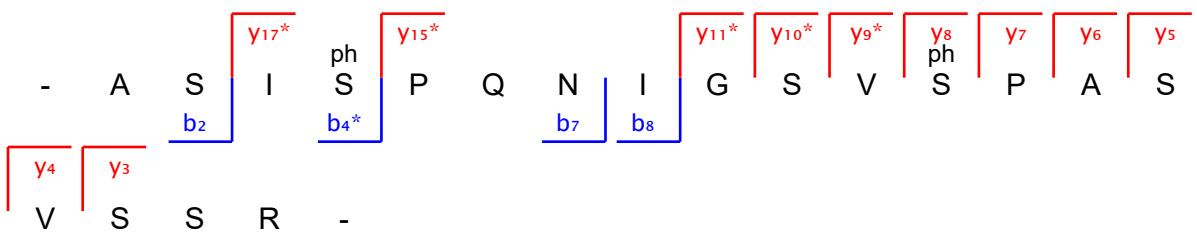
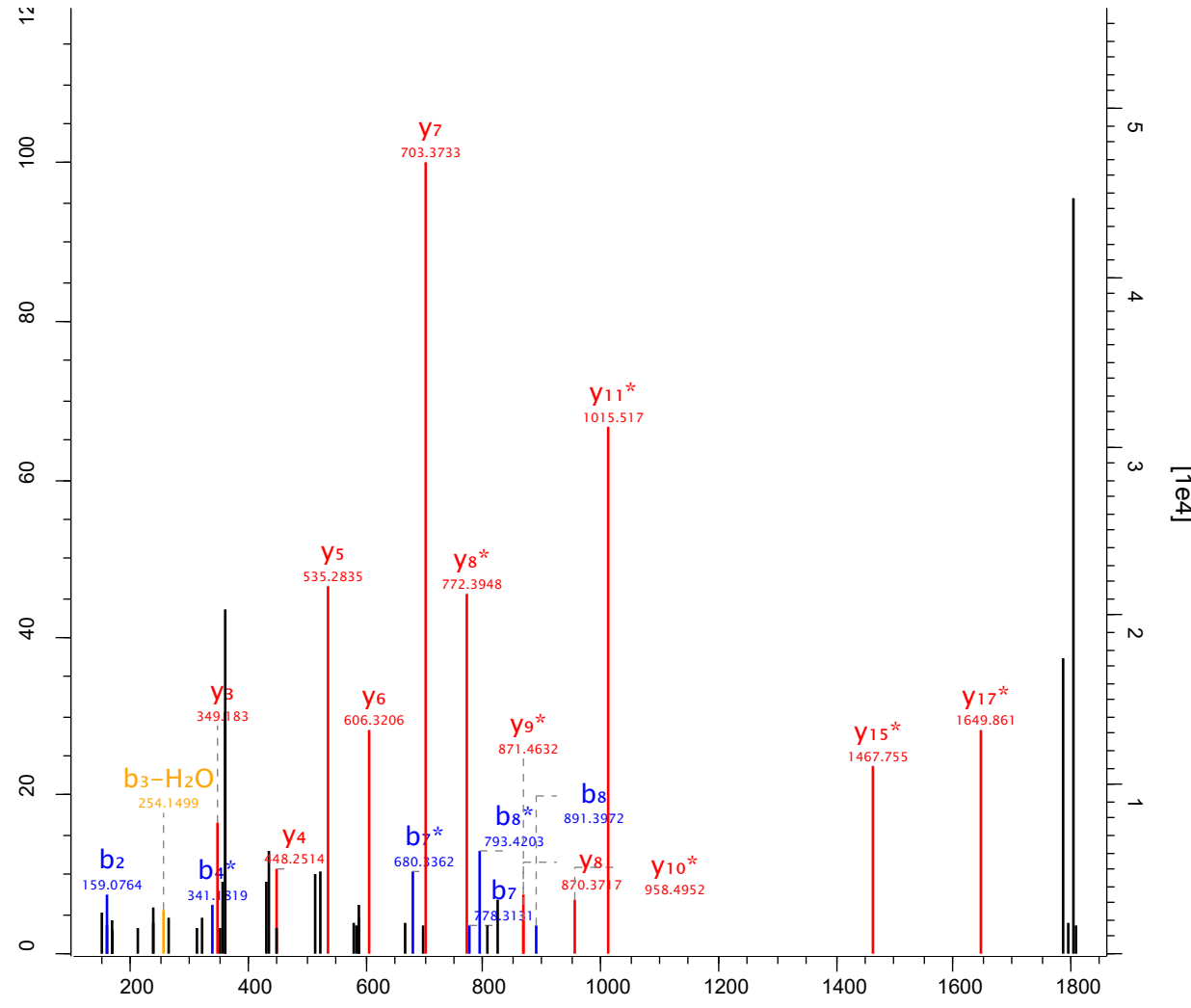


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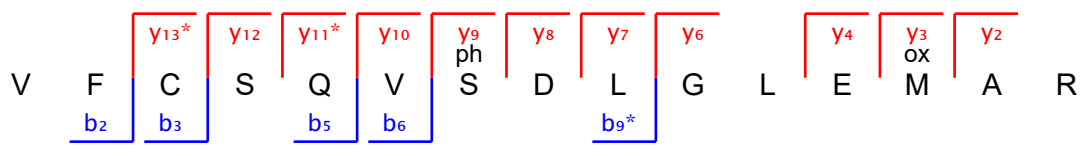
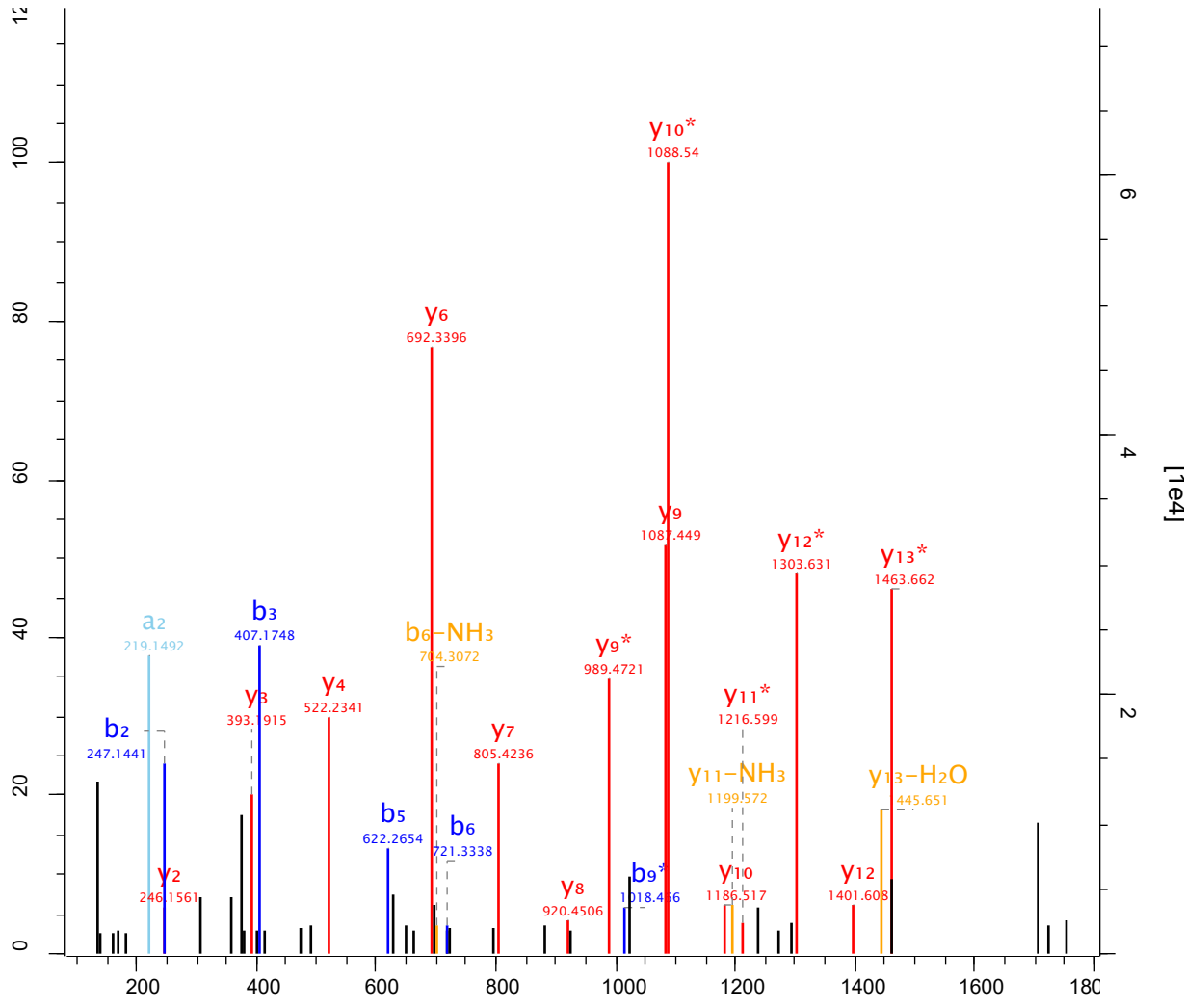


- G T S E R S Q E L L M N A T I
 I P S K -
 y₄ y₃ y₂
 b₈ b₉ b₁₀ y₁₀ y₉OX y₈ y₇ y₆
 b₁₃2⁺ b₁₀* b₁₀

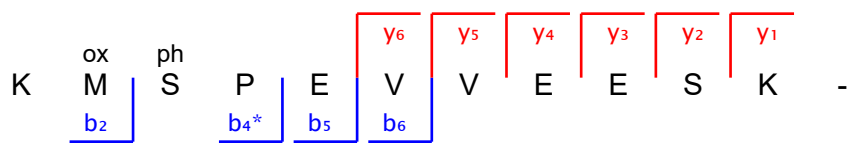
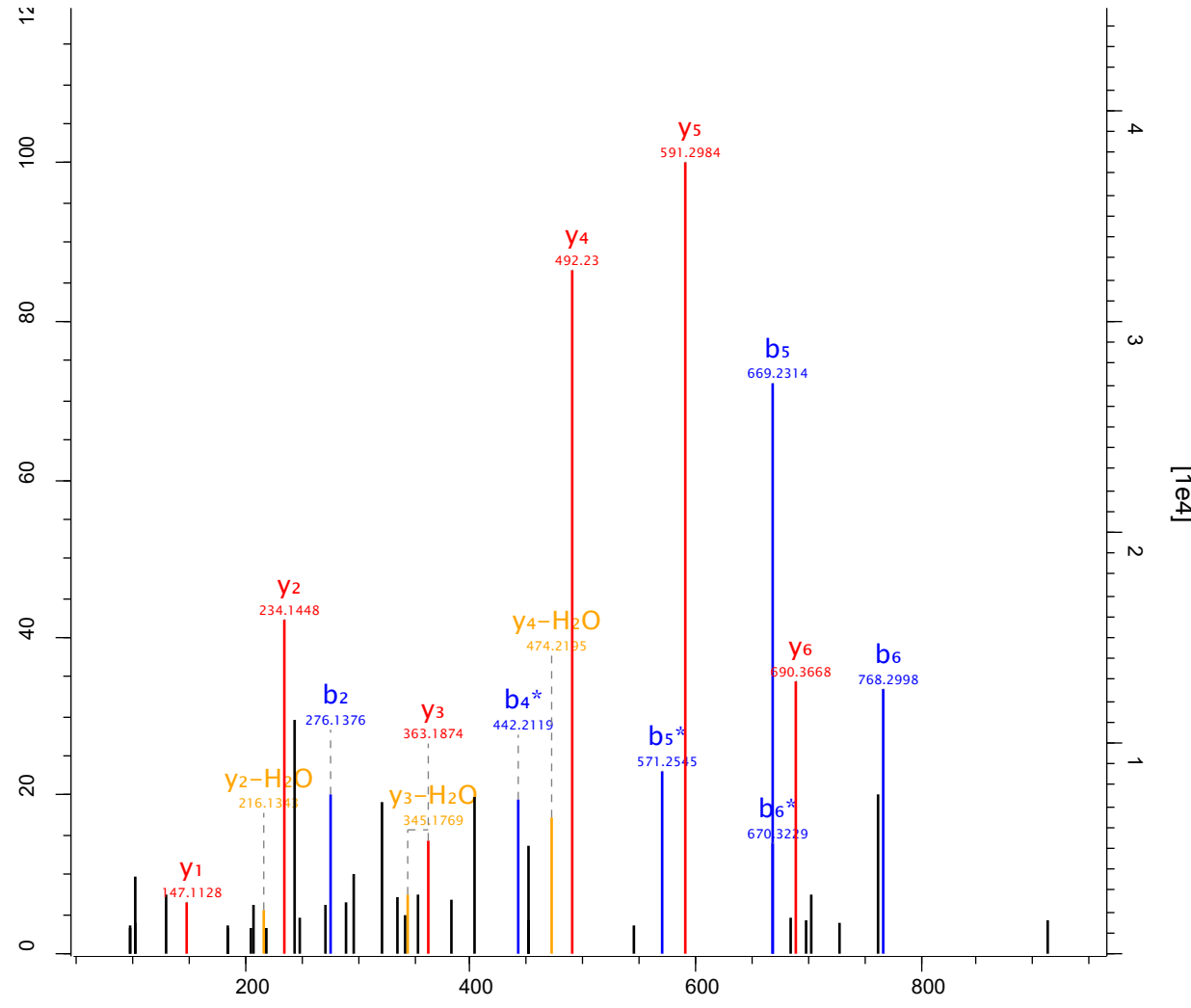
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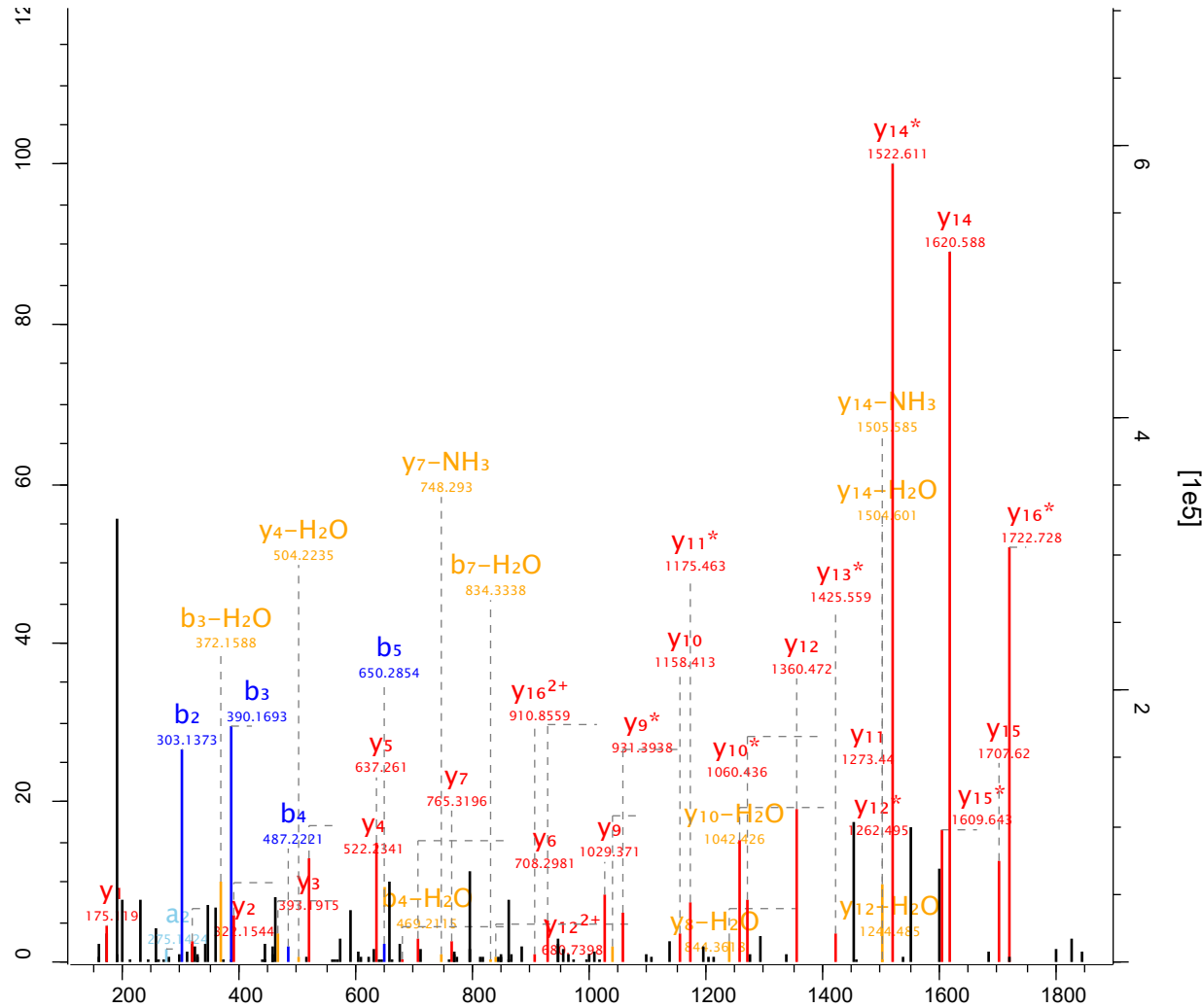
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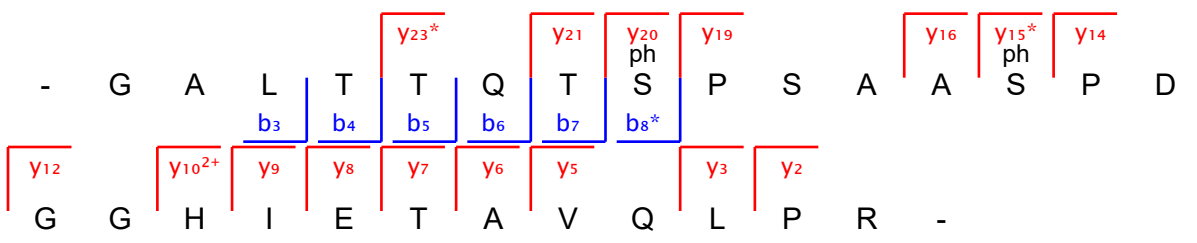
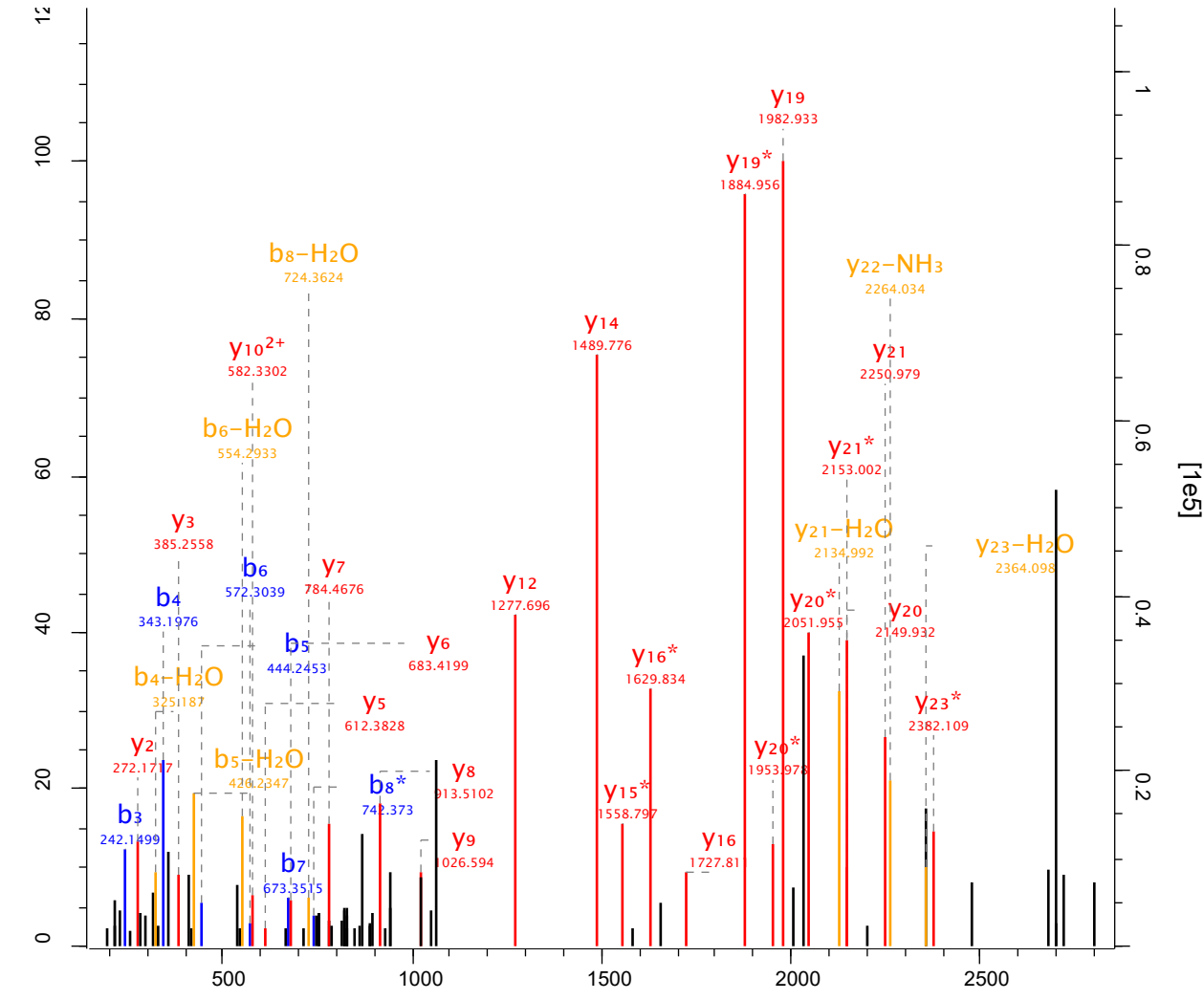


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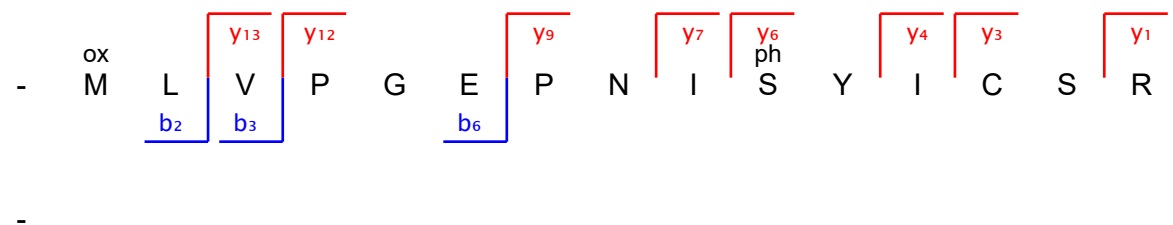
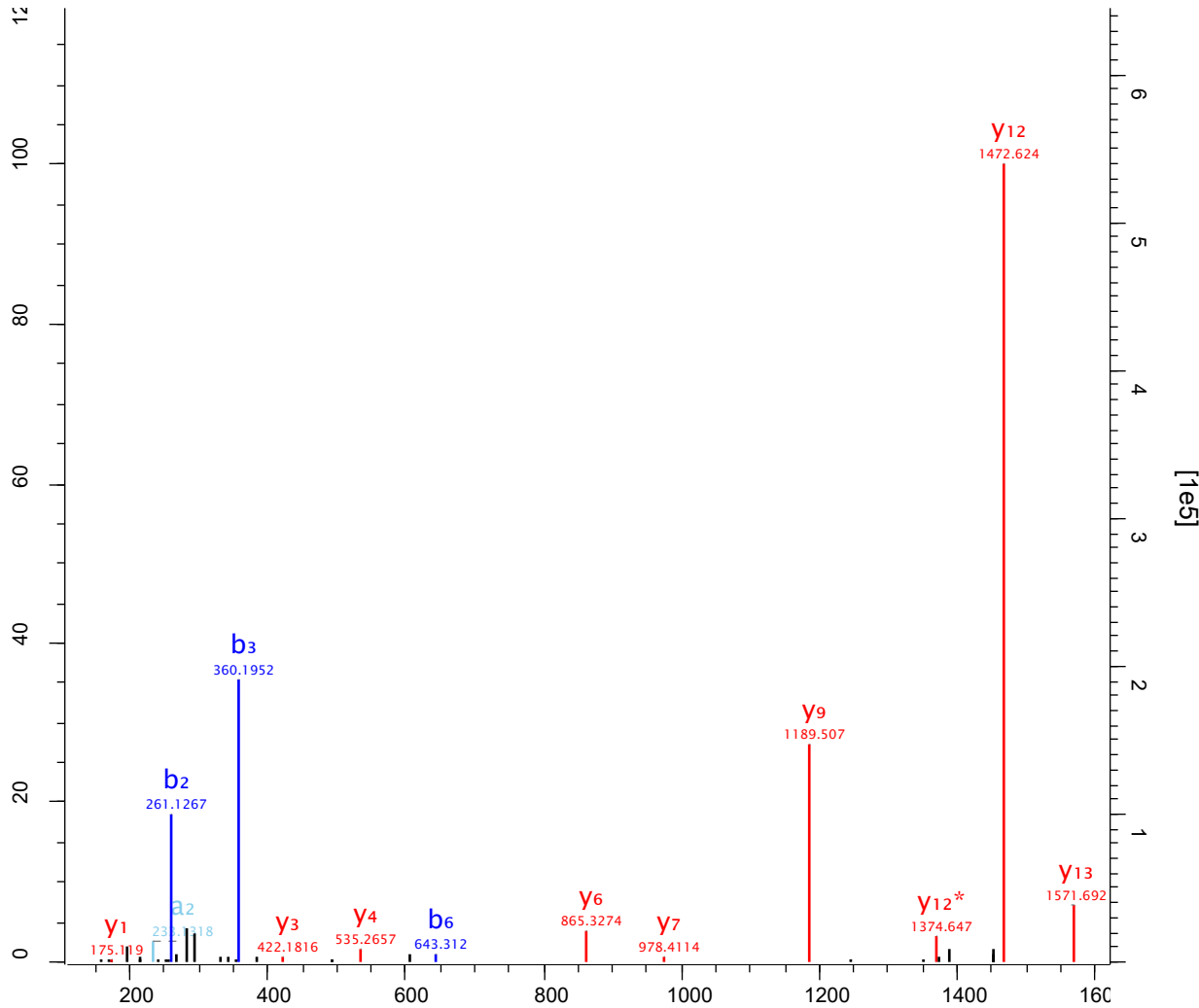


ac ox y16* y15 y14 y13* y12 y11 y10 y9 ph y7 y6 y5 y4 y3
 - M L S P Y S D E S P G A D E A
 b2 b3 b4 b5
 y2 ox y1
 M R -

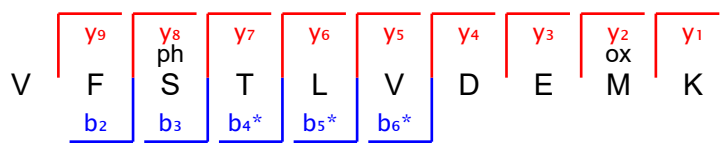
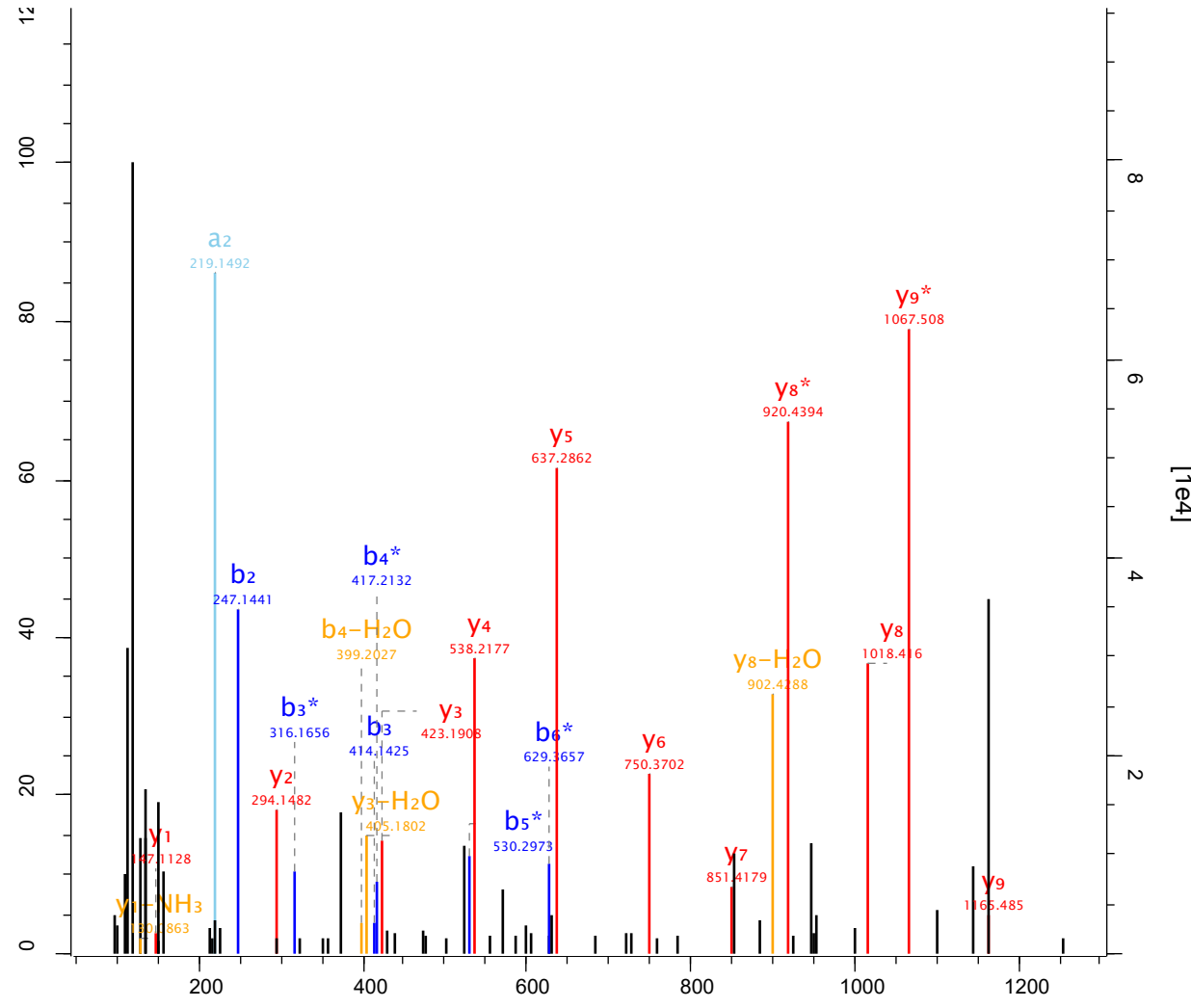
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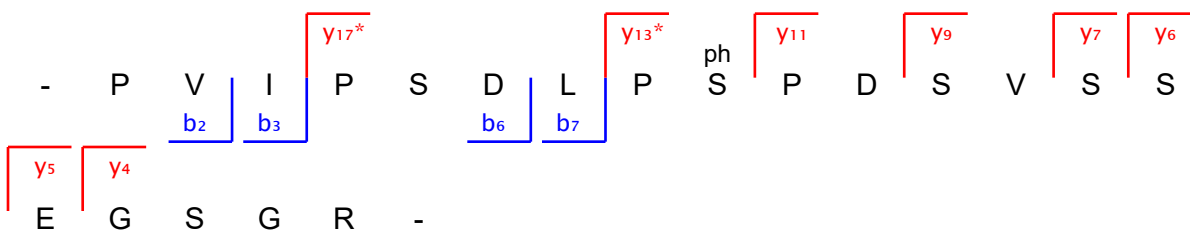
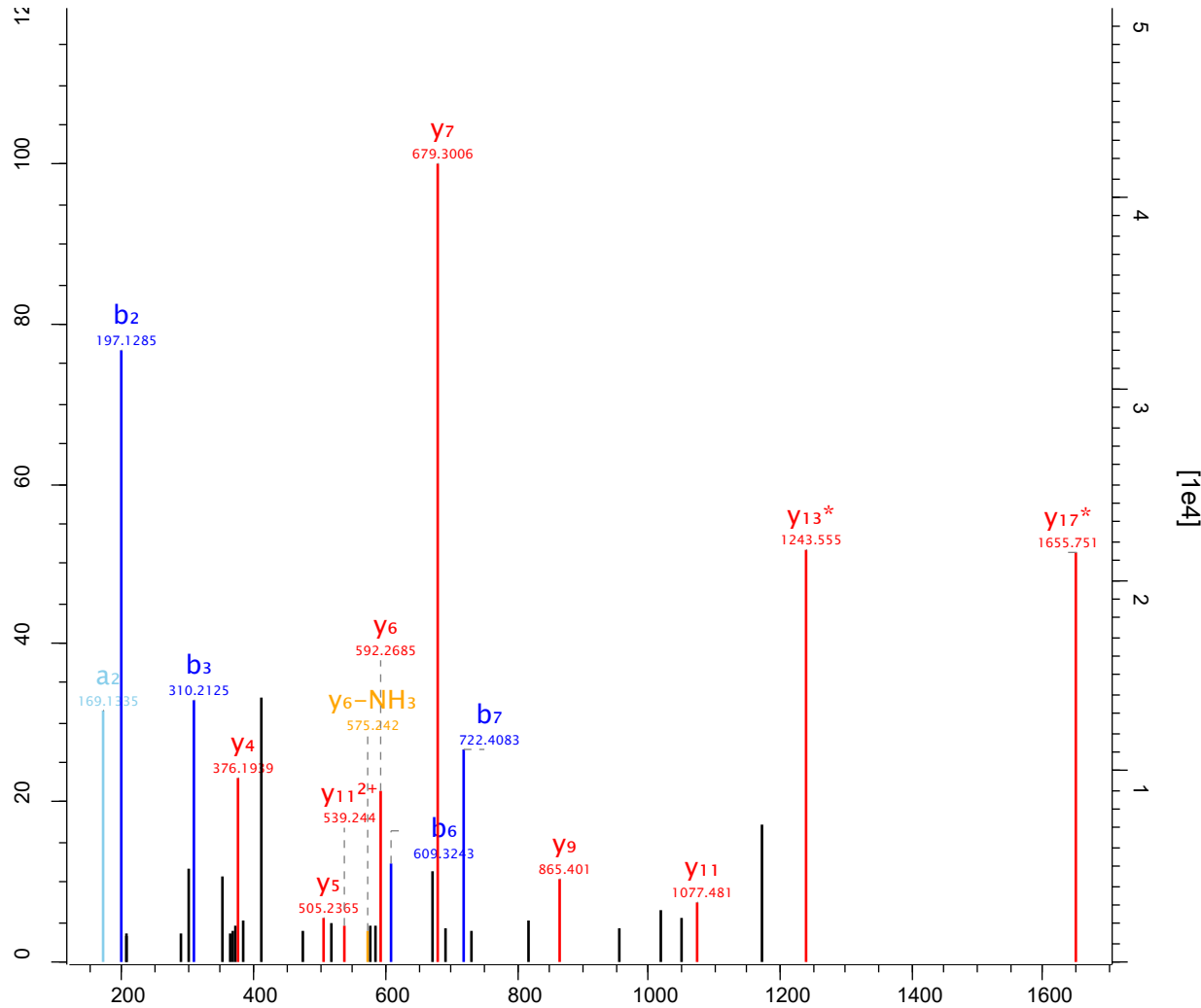
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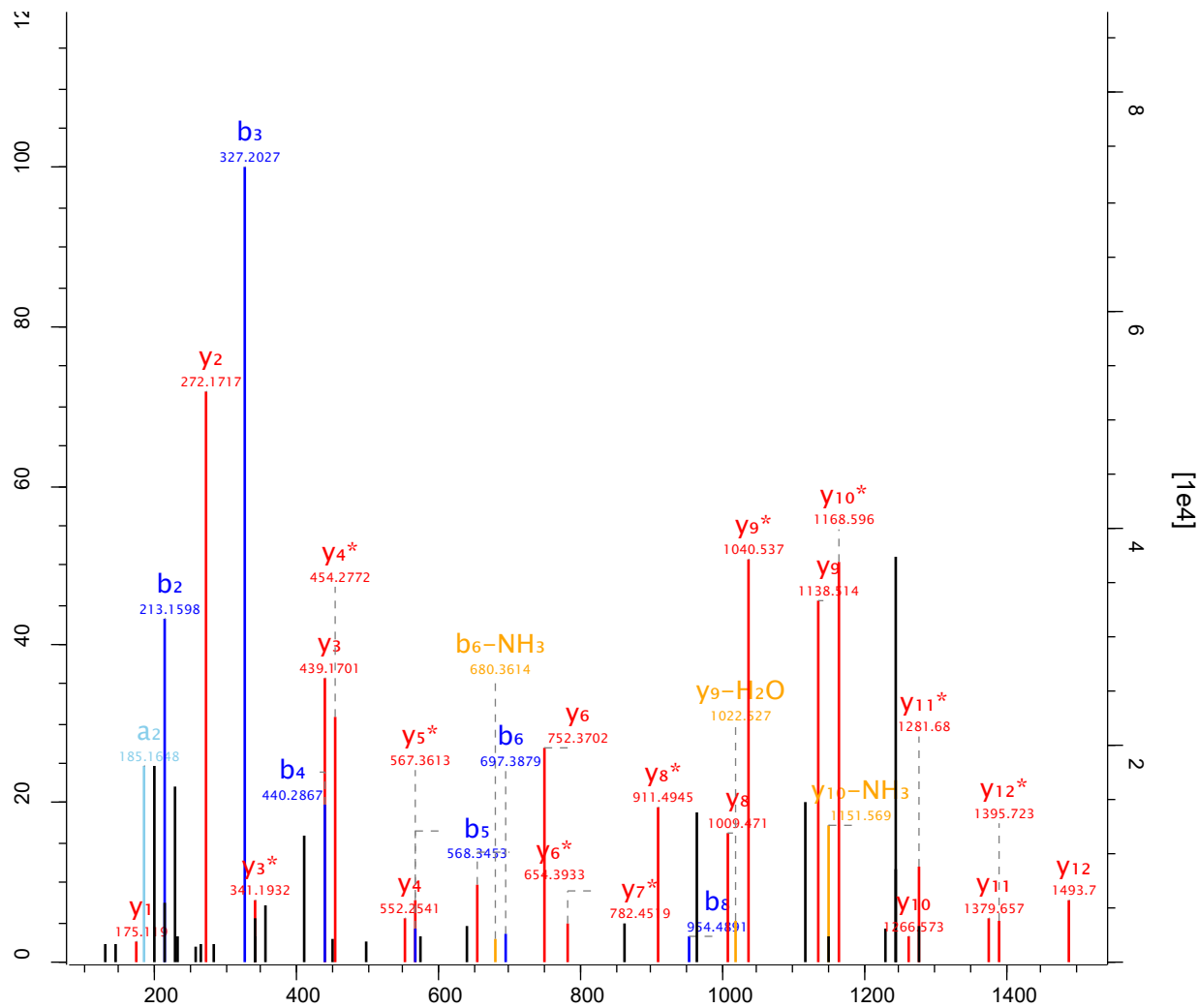
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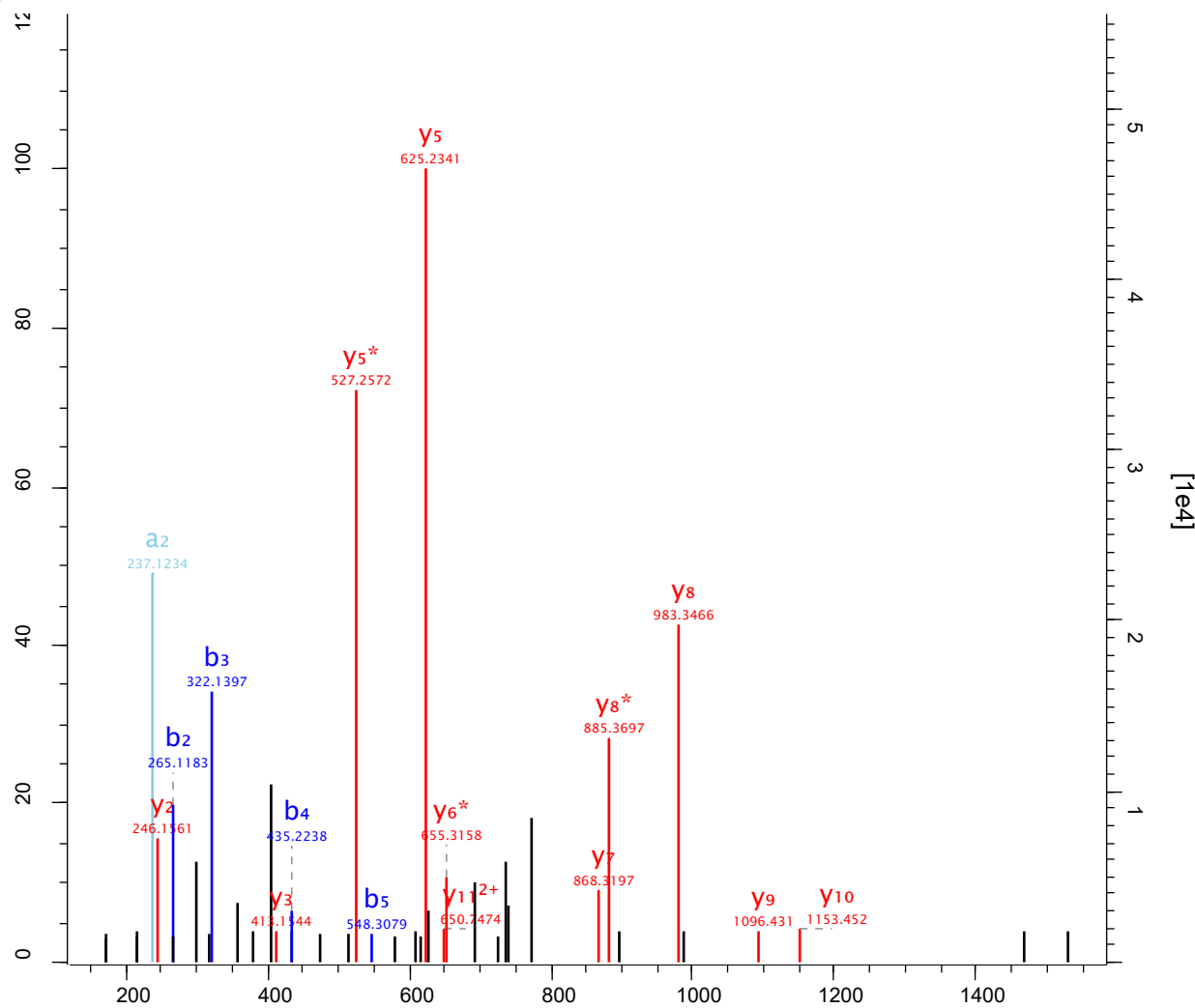


- V L N I Q E E Q S I L S P R -

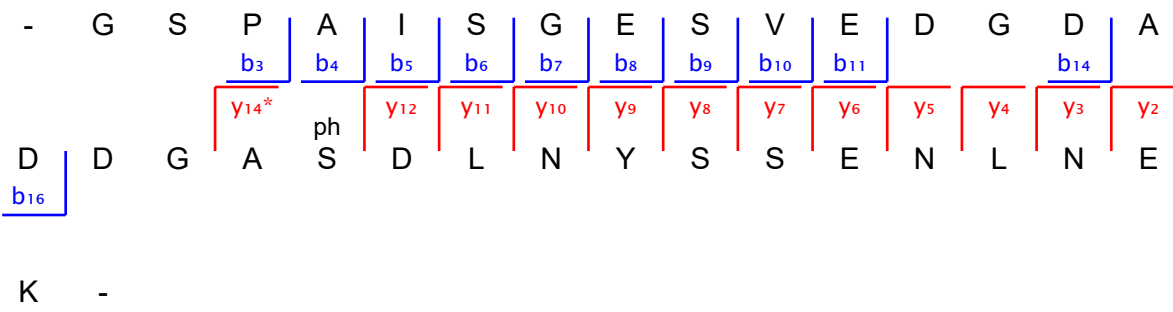
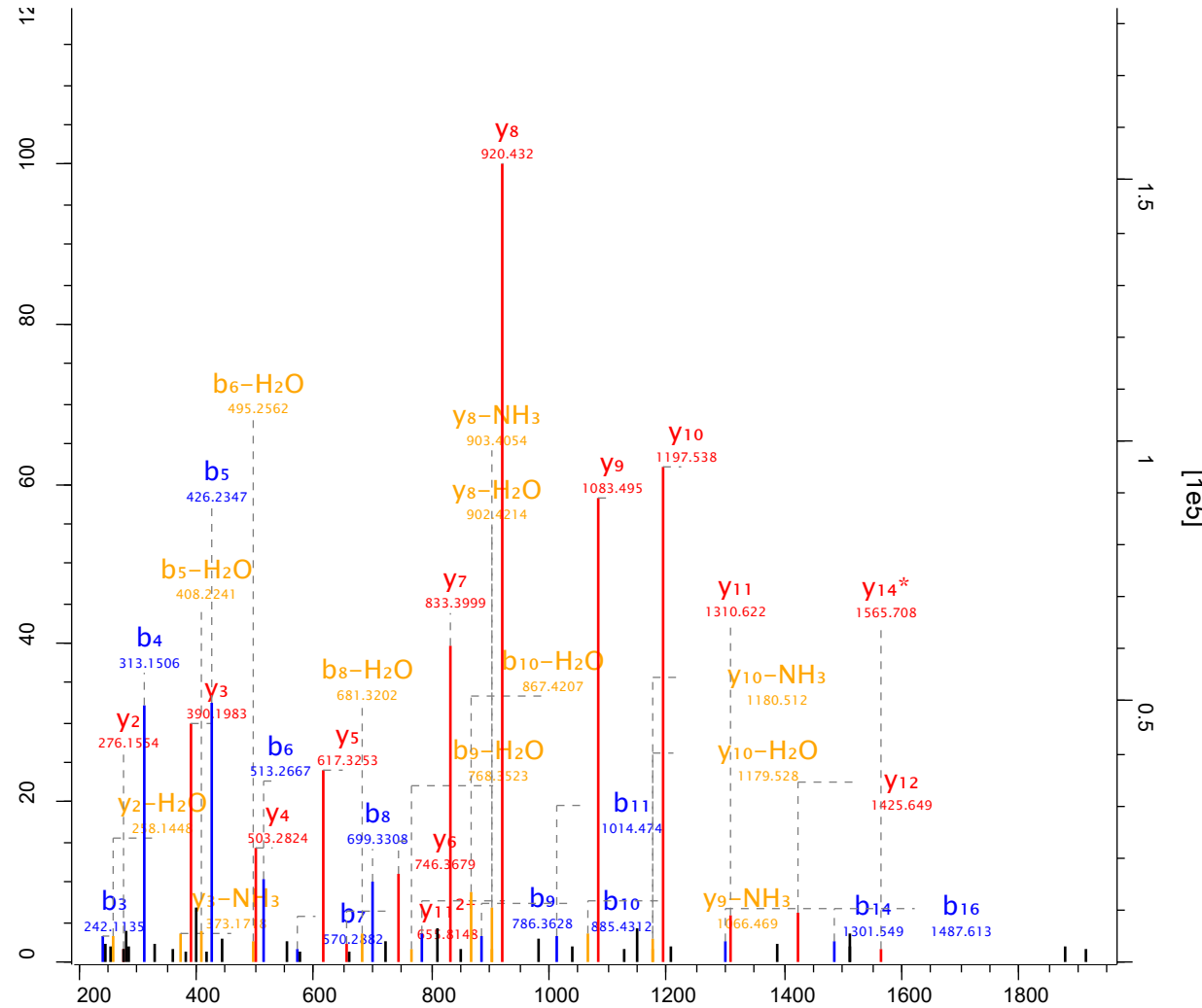
b₂
b₃
b₄
b₅
b₆
b₈

y₁₂
y₁₁
y₁₀
y₉
y₈
y₇*
y₆
y₅*
y₄
y₃ph
y₂
y₁

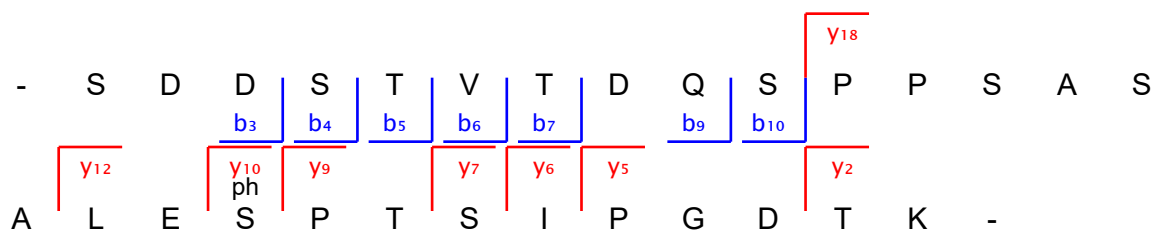
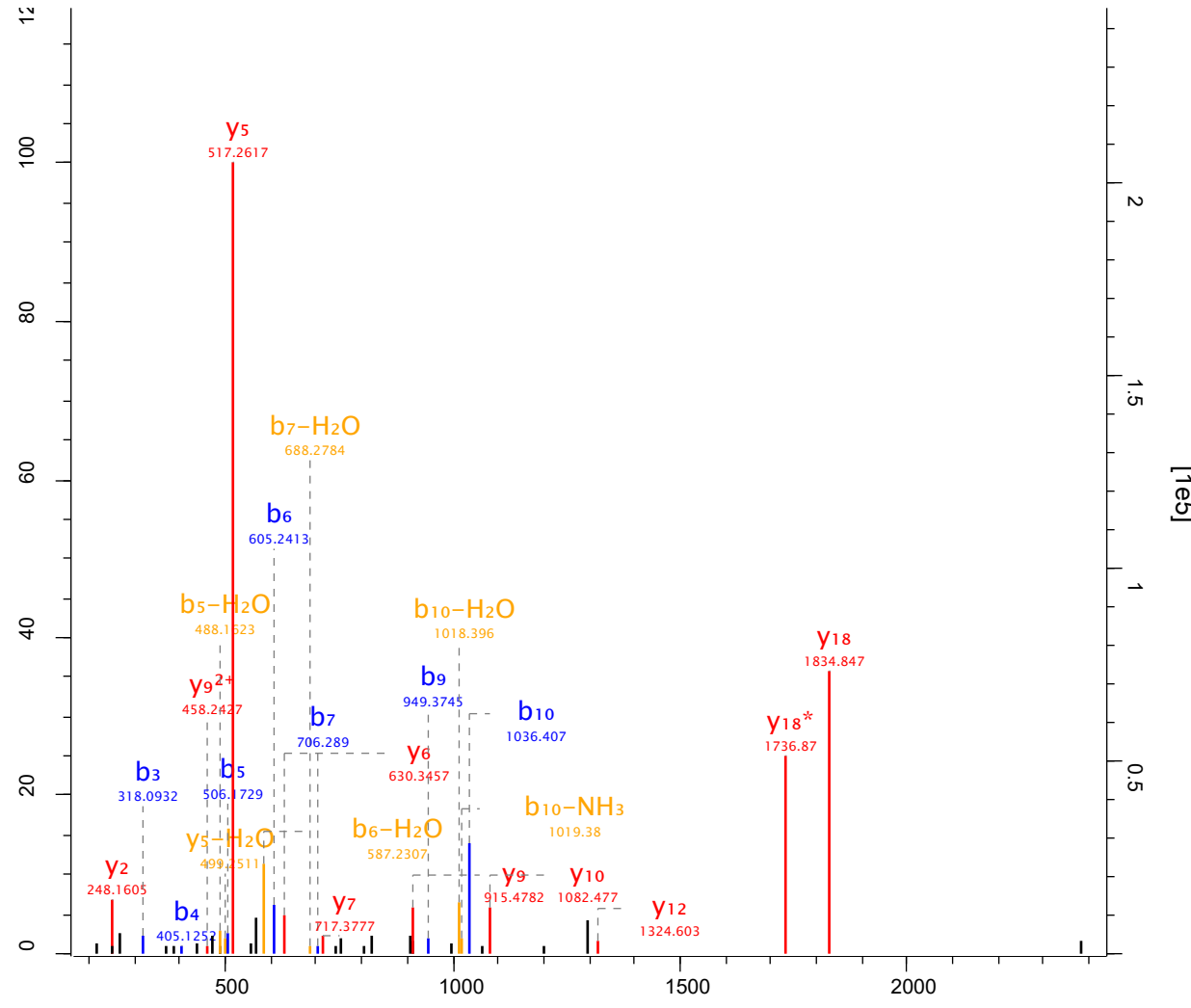
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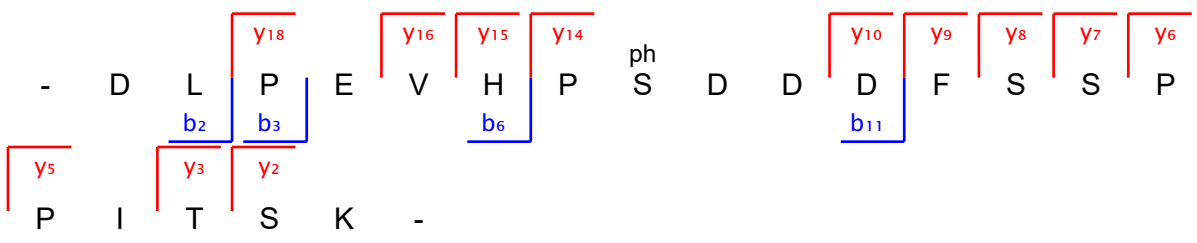
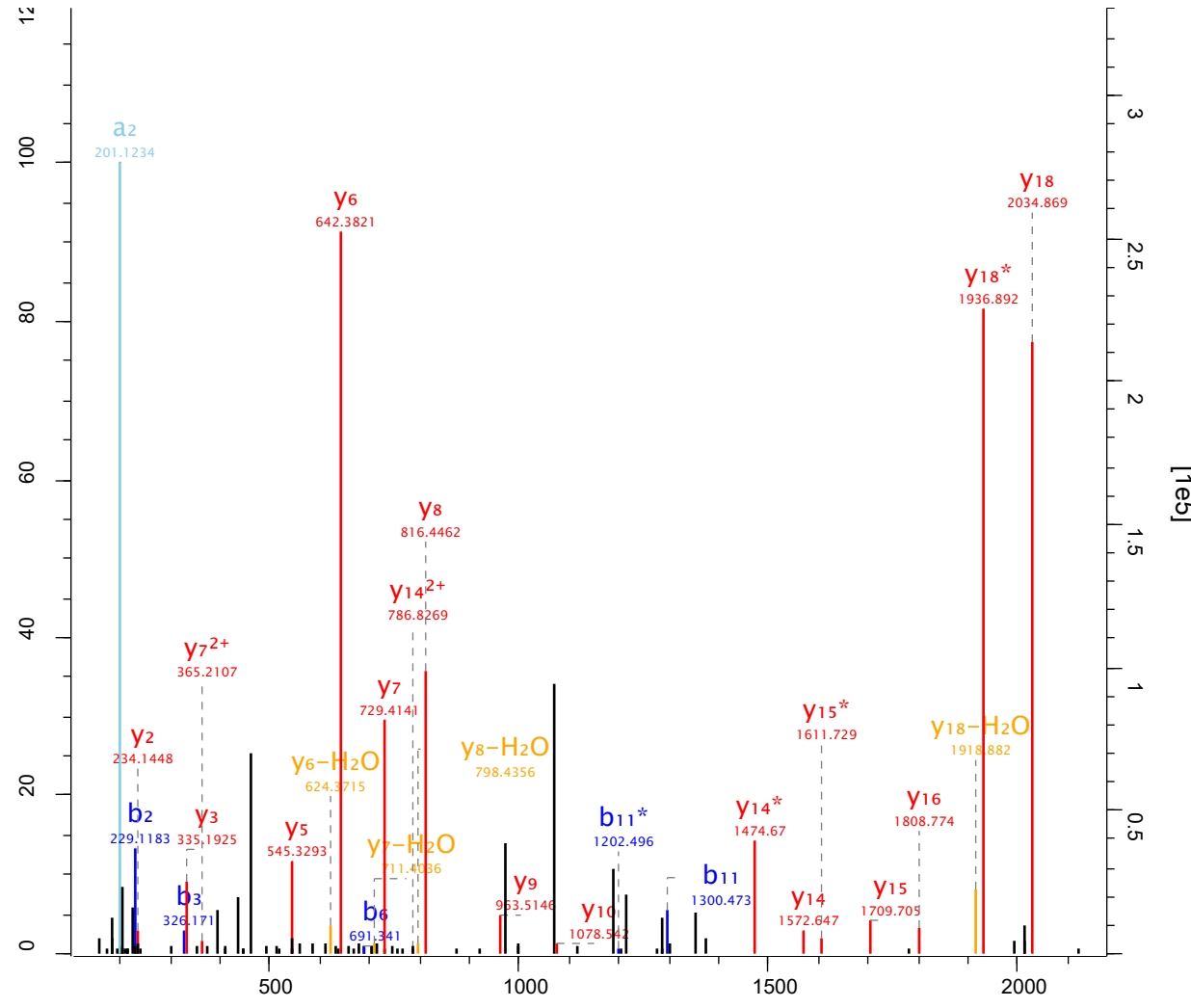
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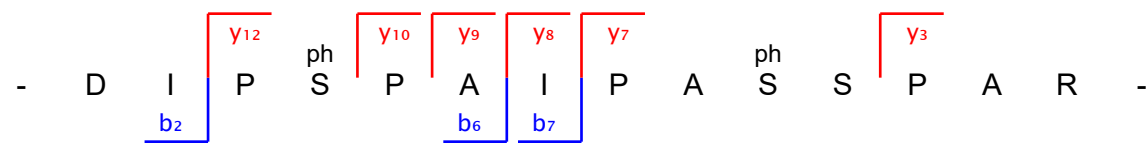
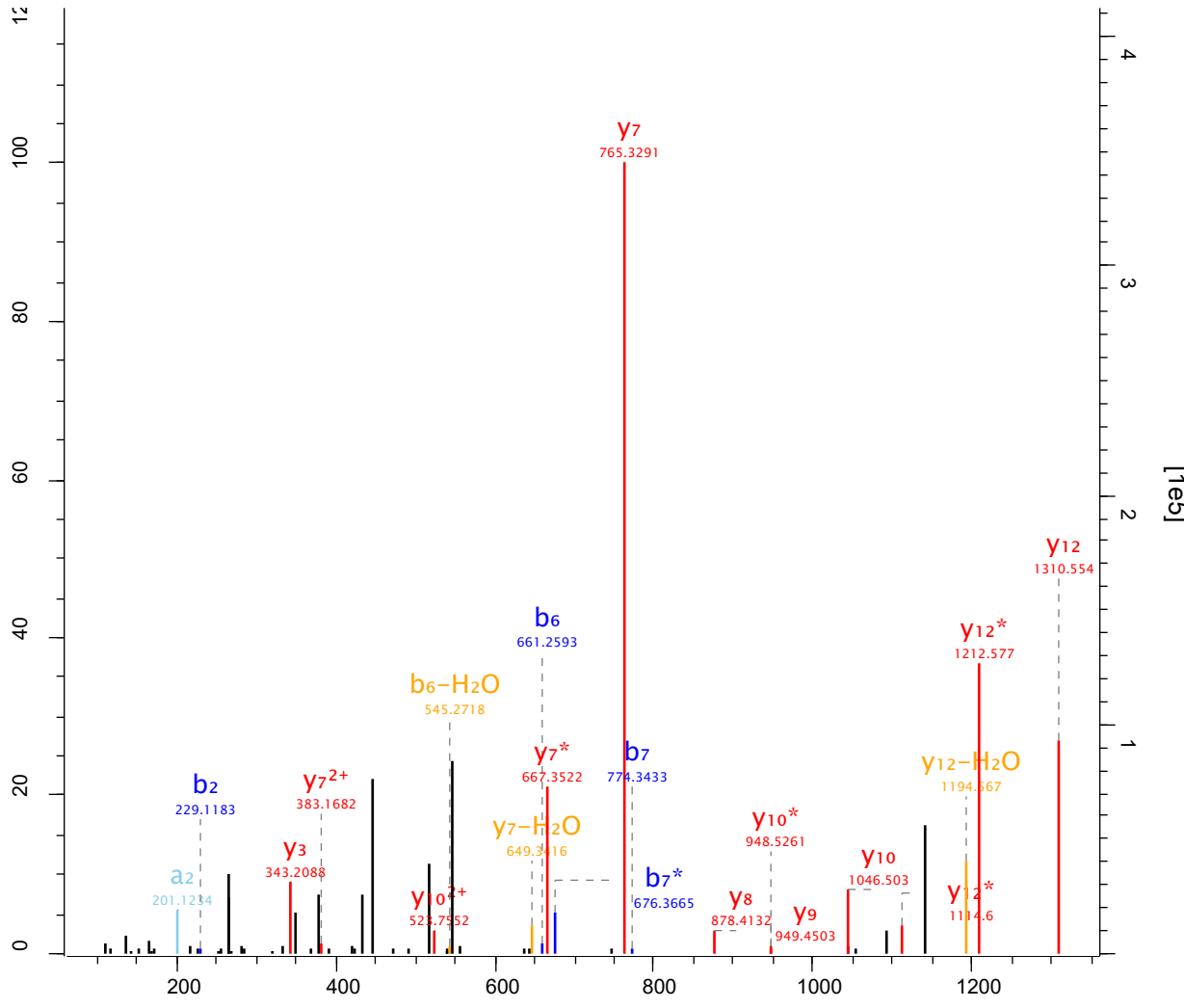
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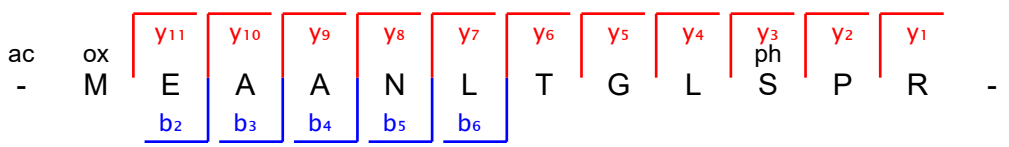
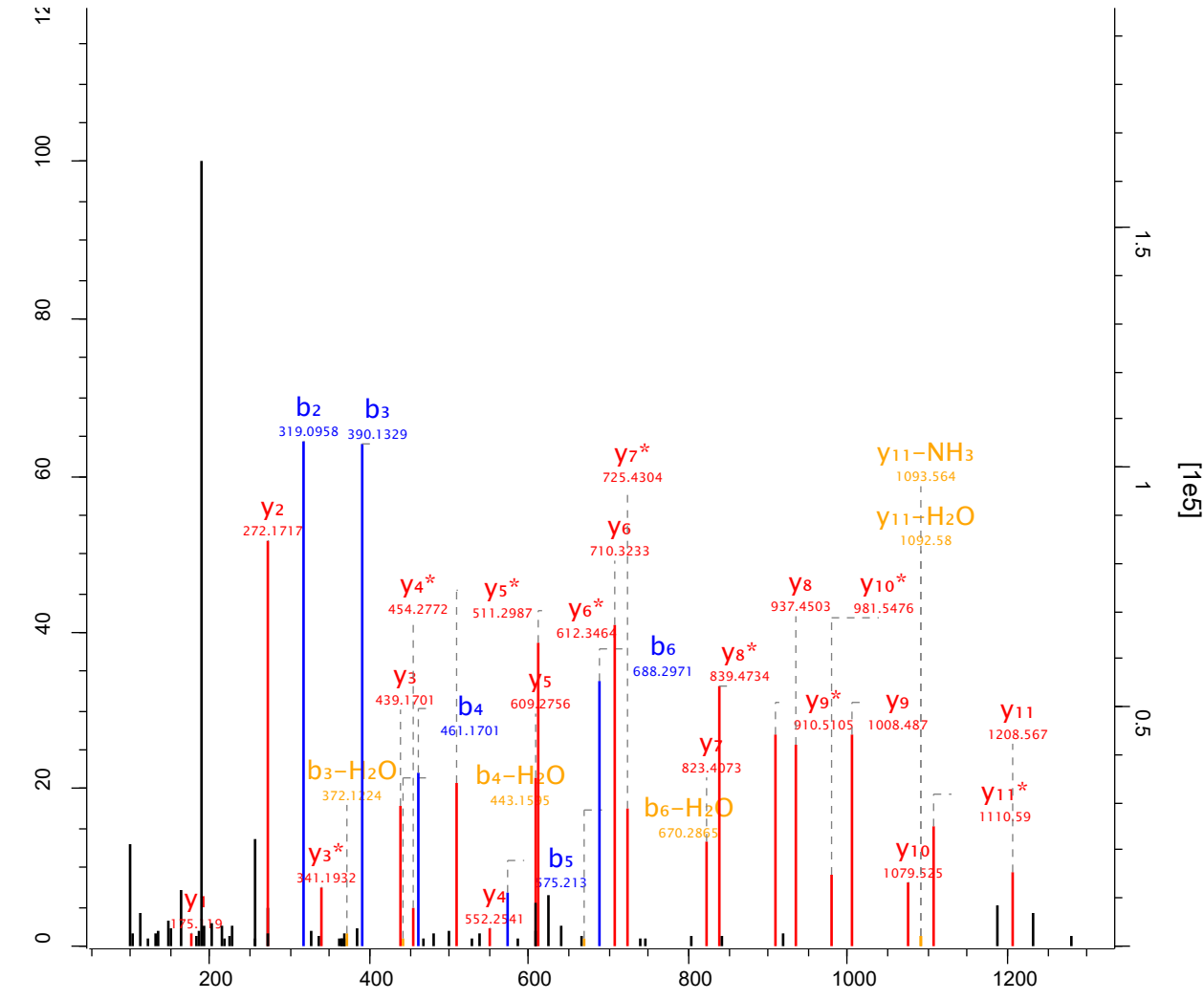
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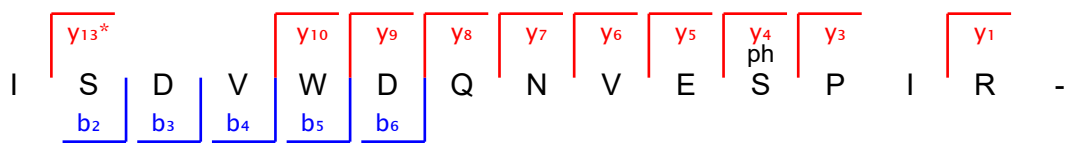
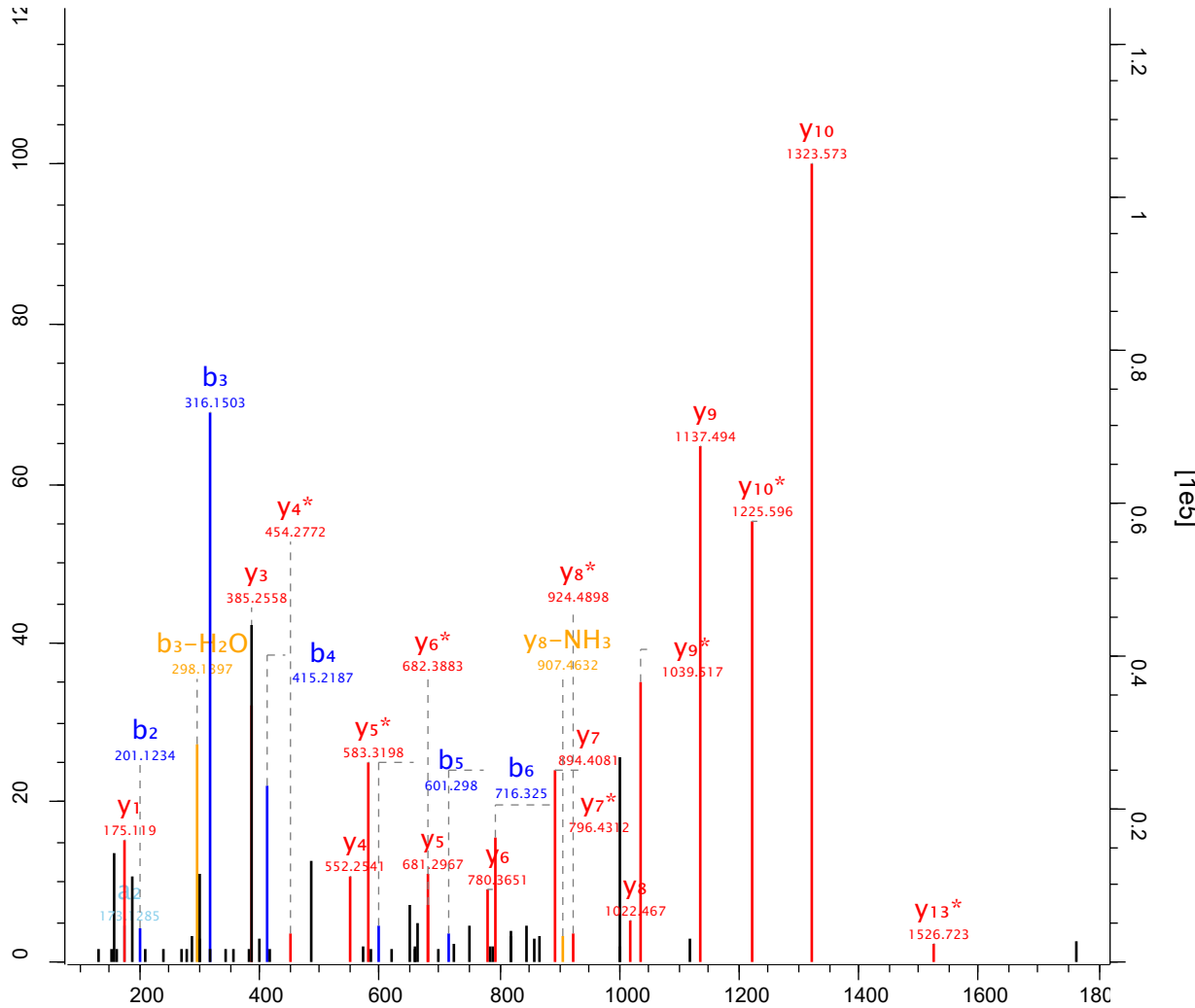
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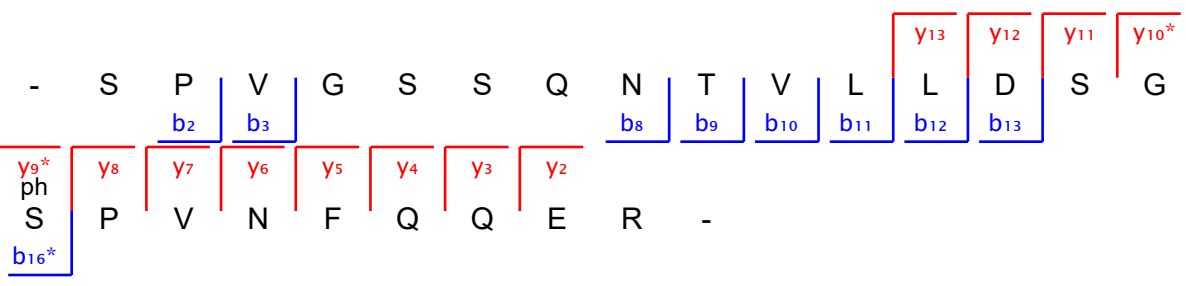
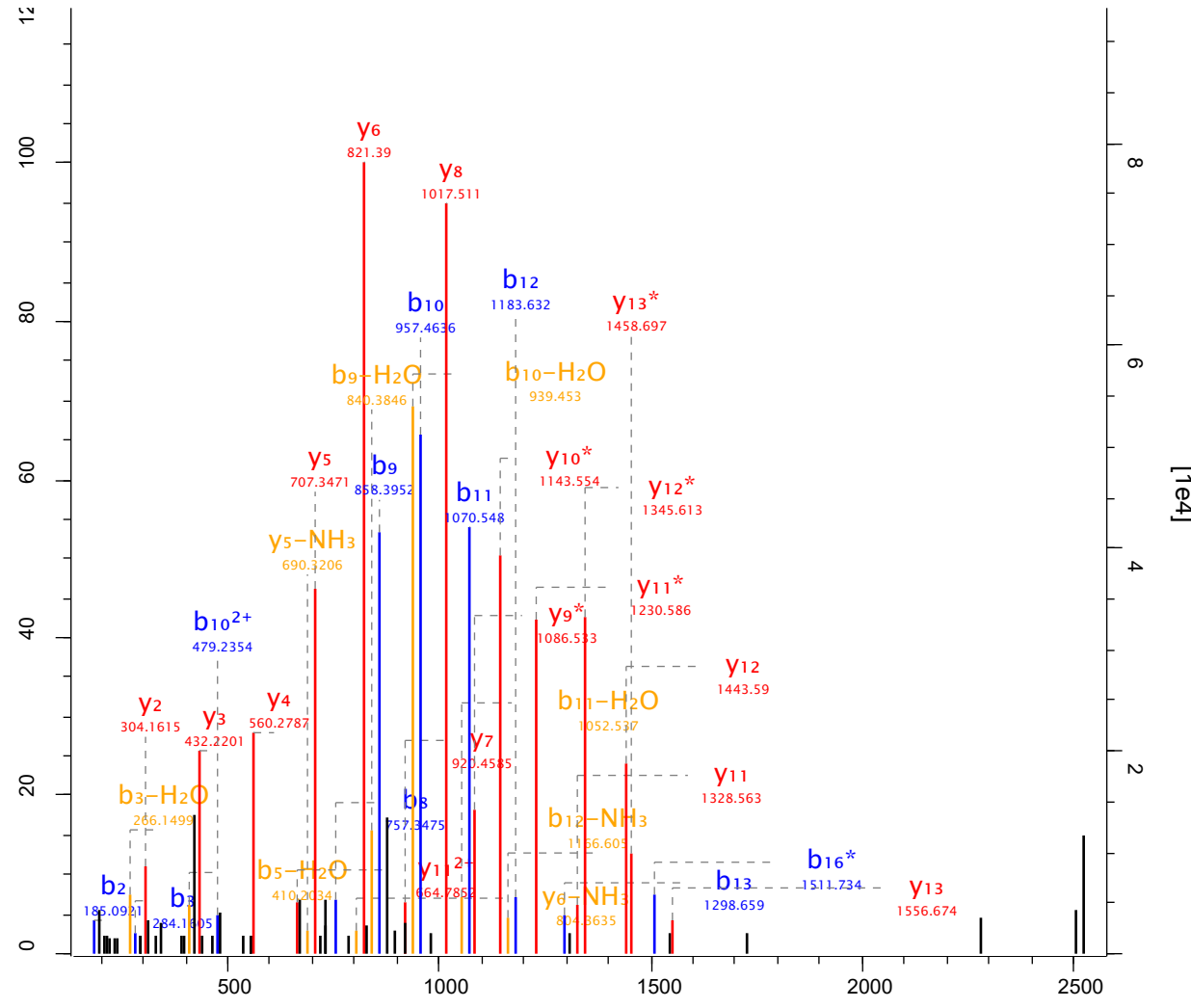
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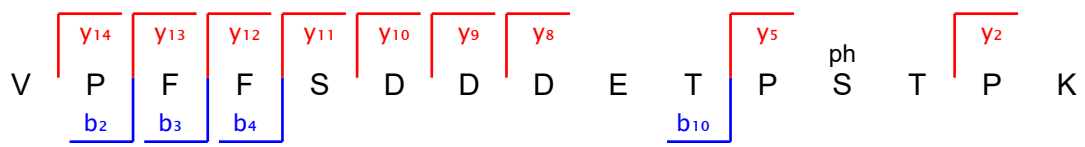
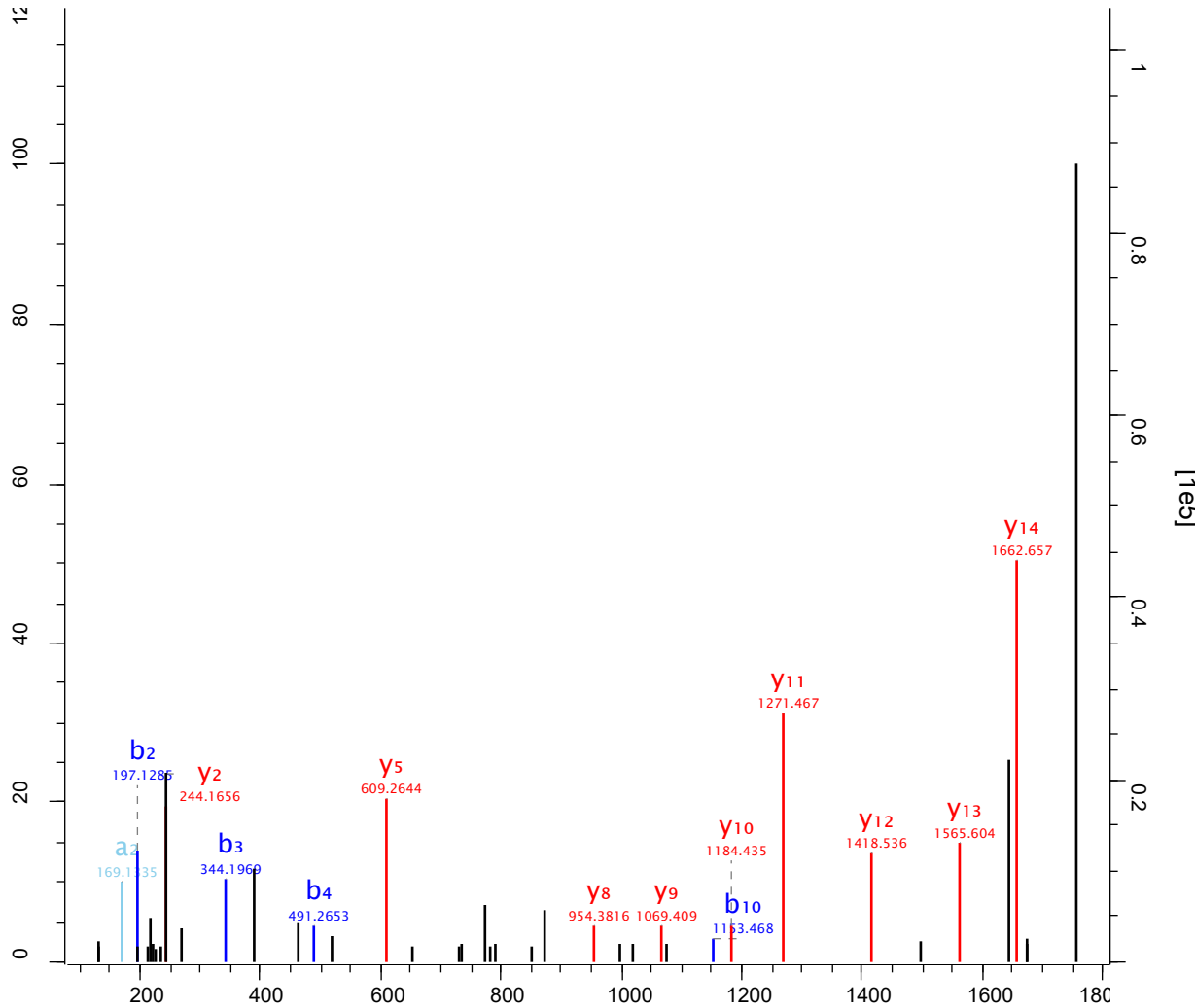
Raw file sys_15_1 Scan 32593 Method FTMS; HCD Score 142.94 m/z 869.4



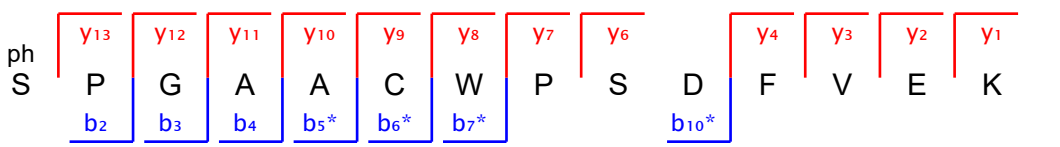
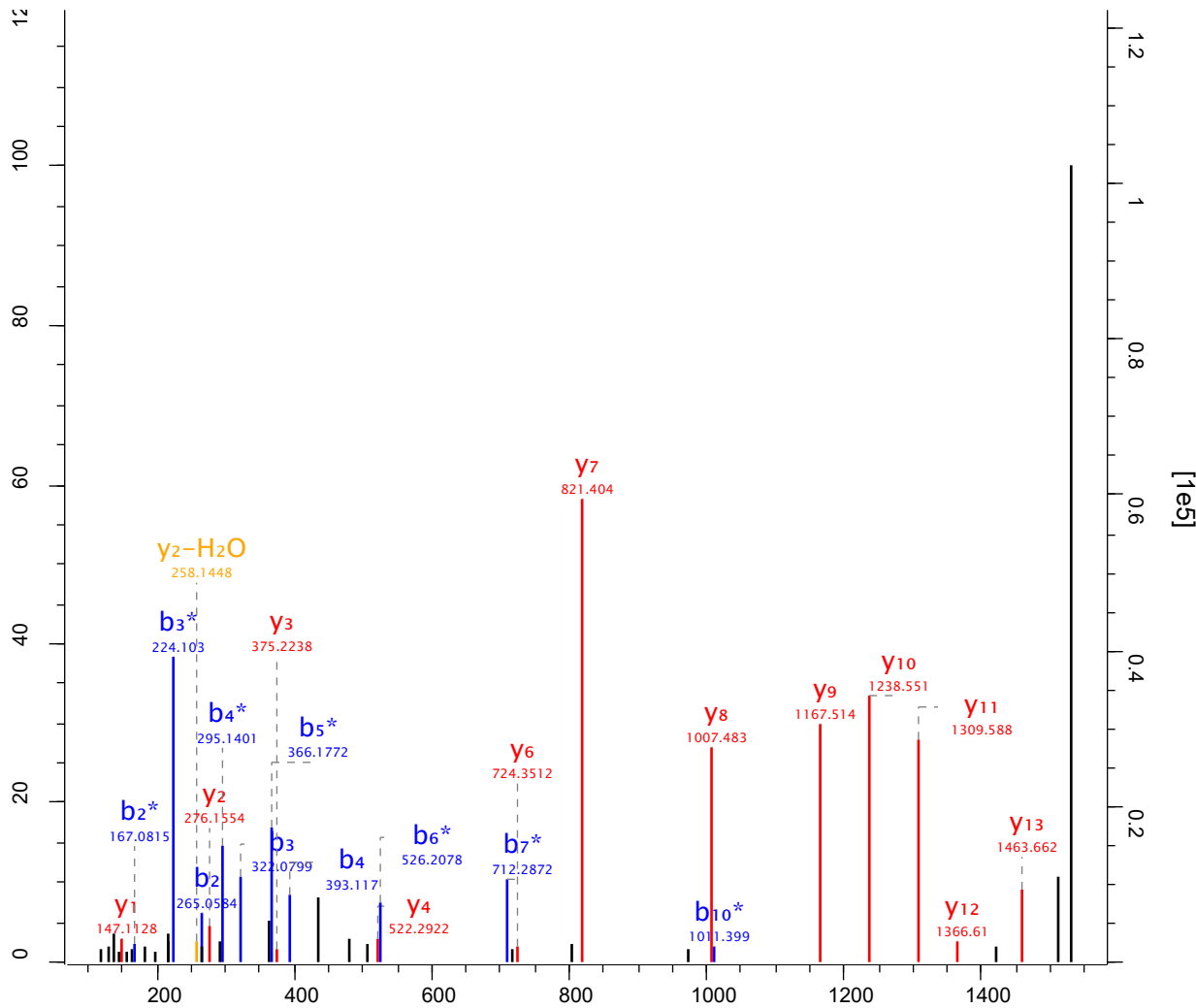
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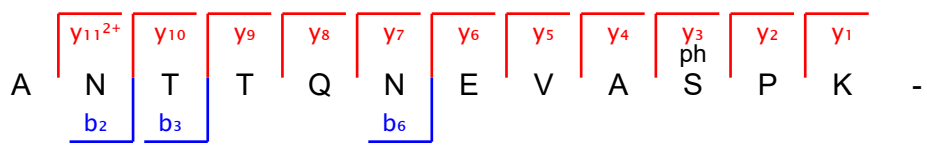
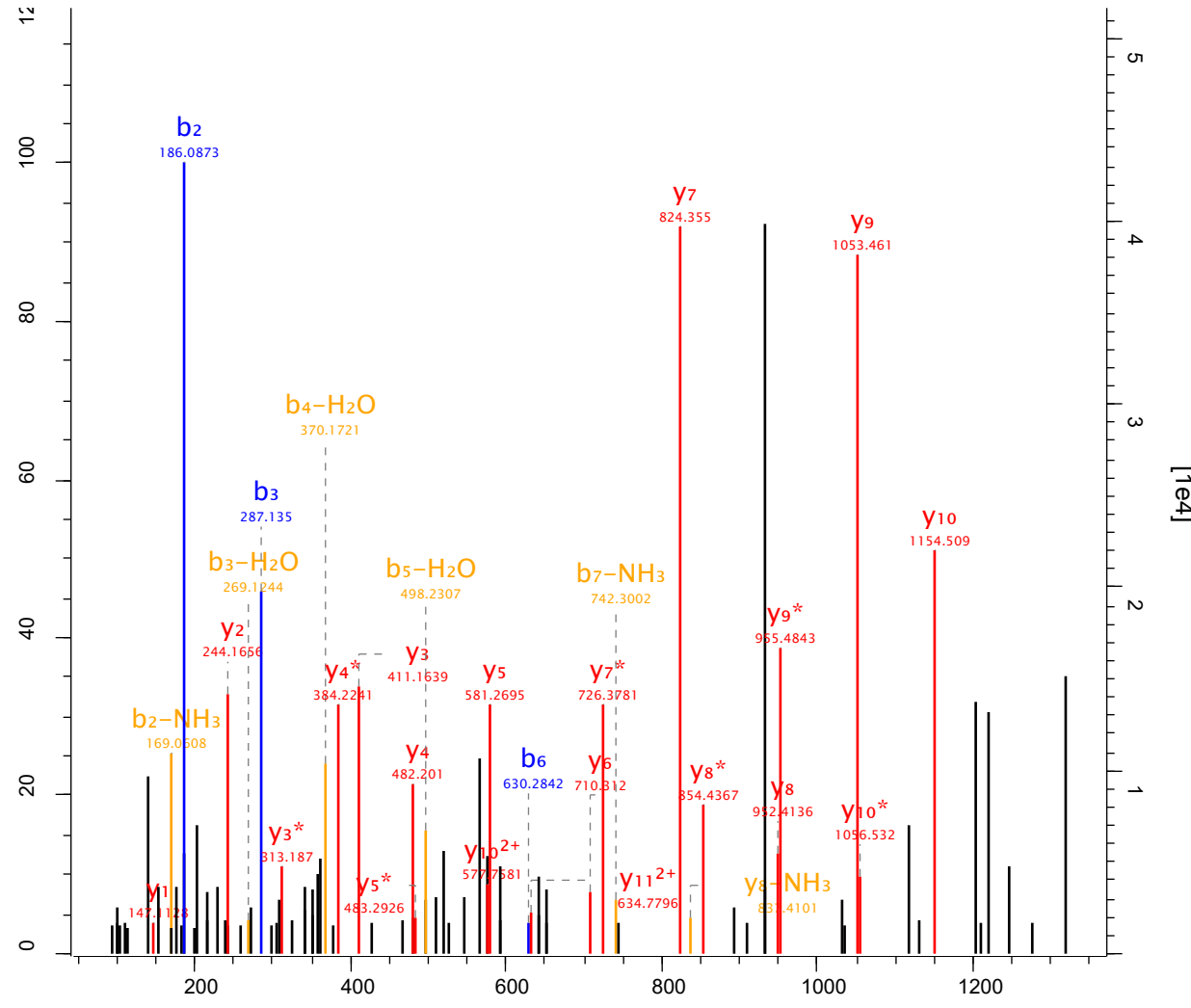
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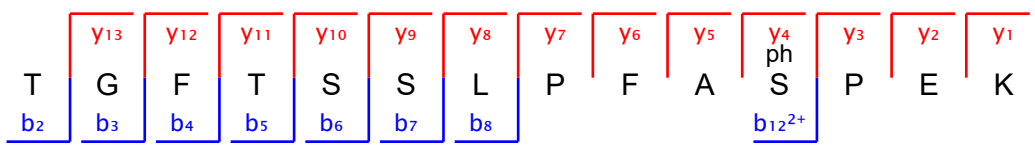
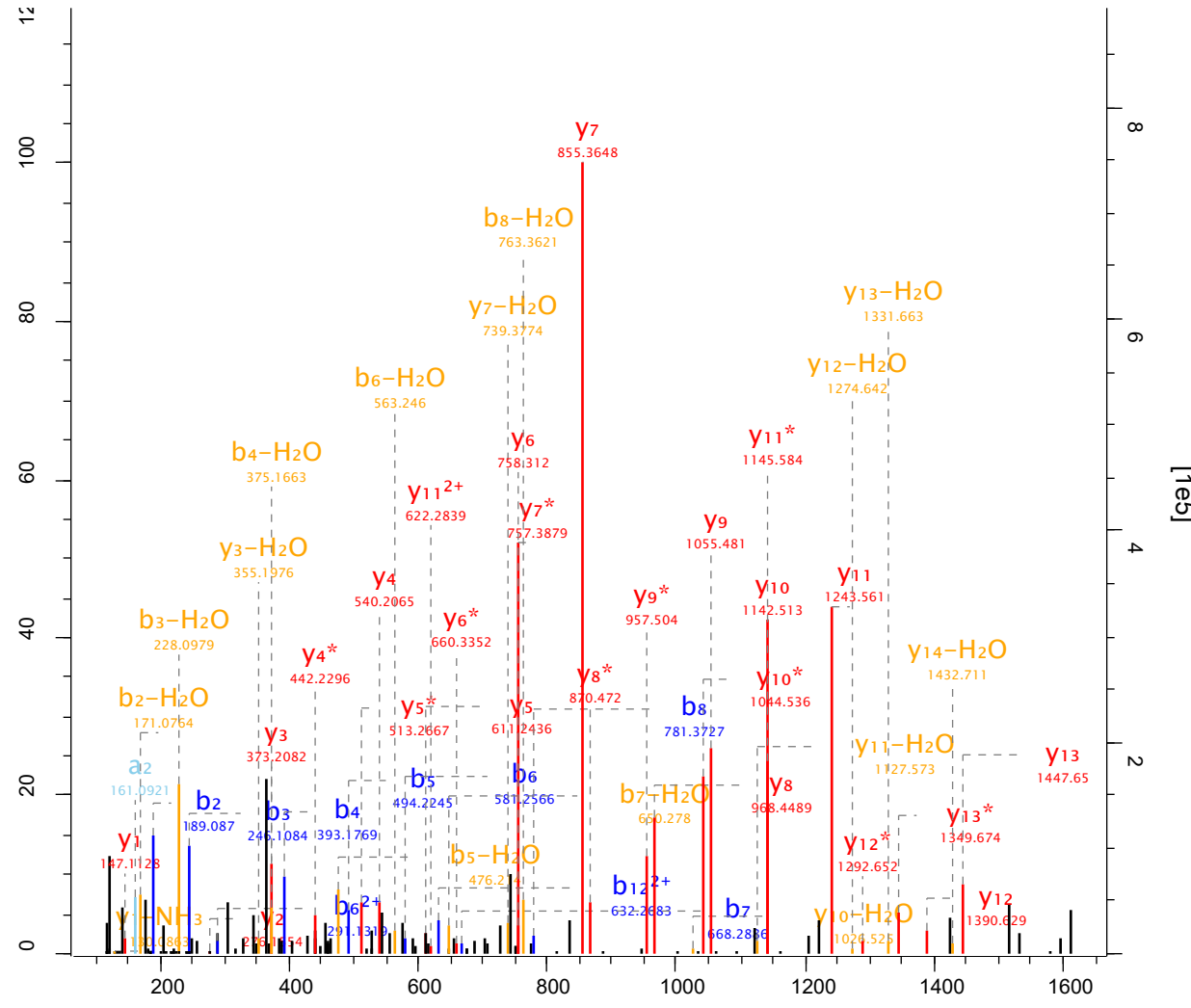
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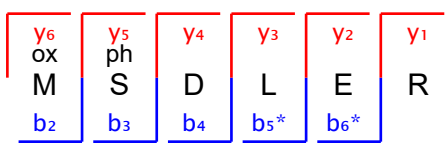
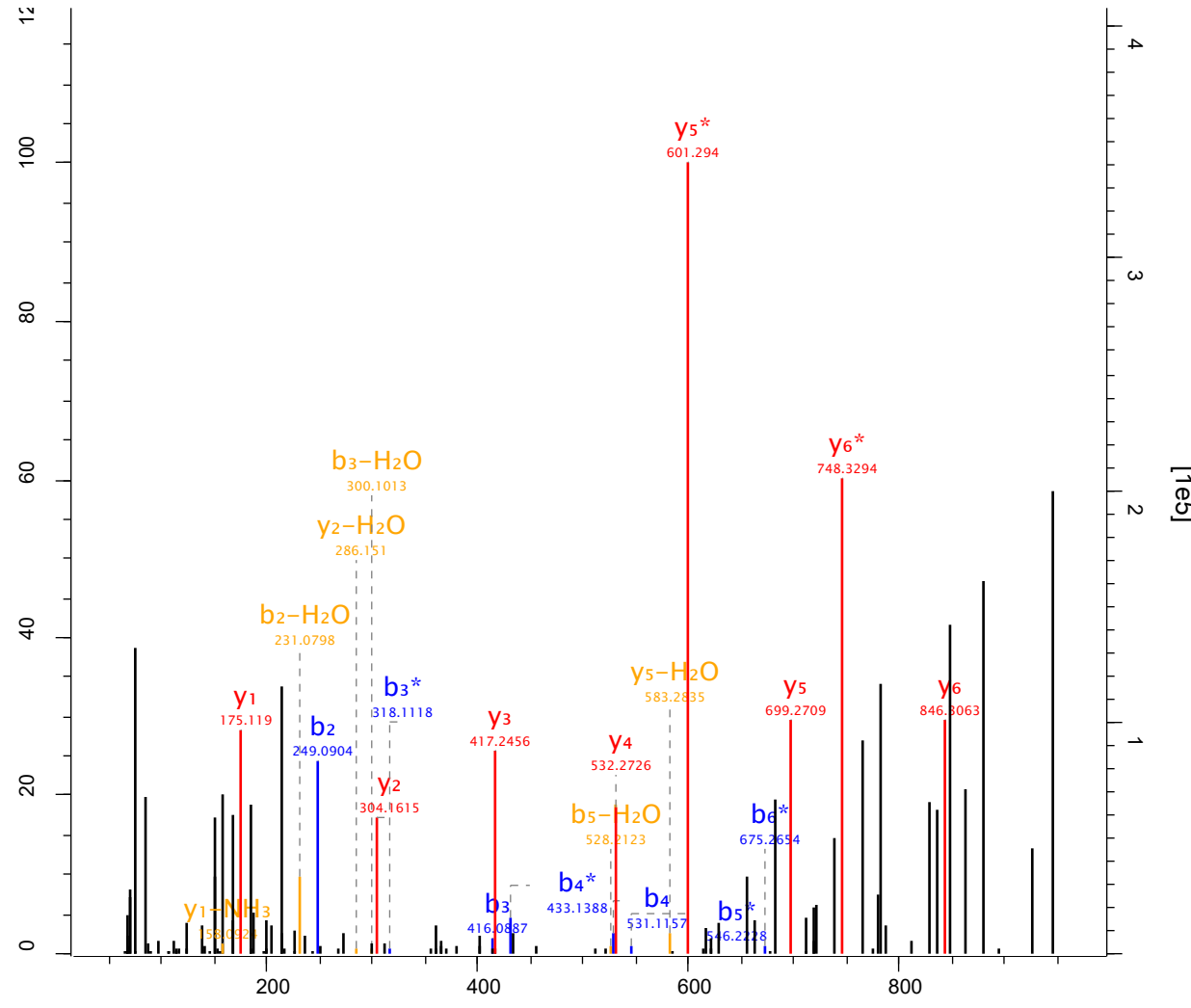
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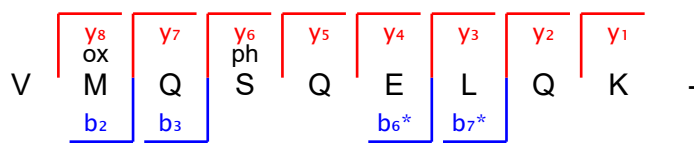
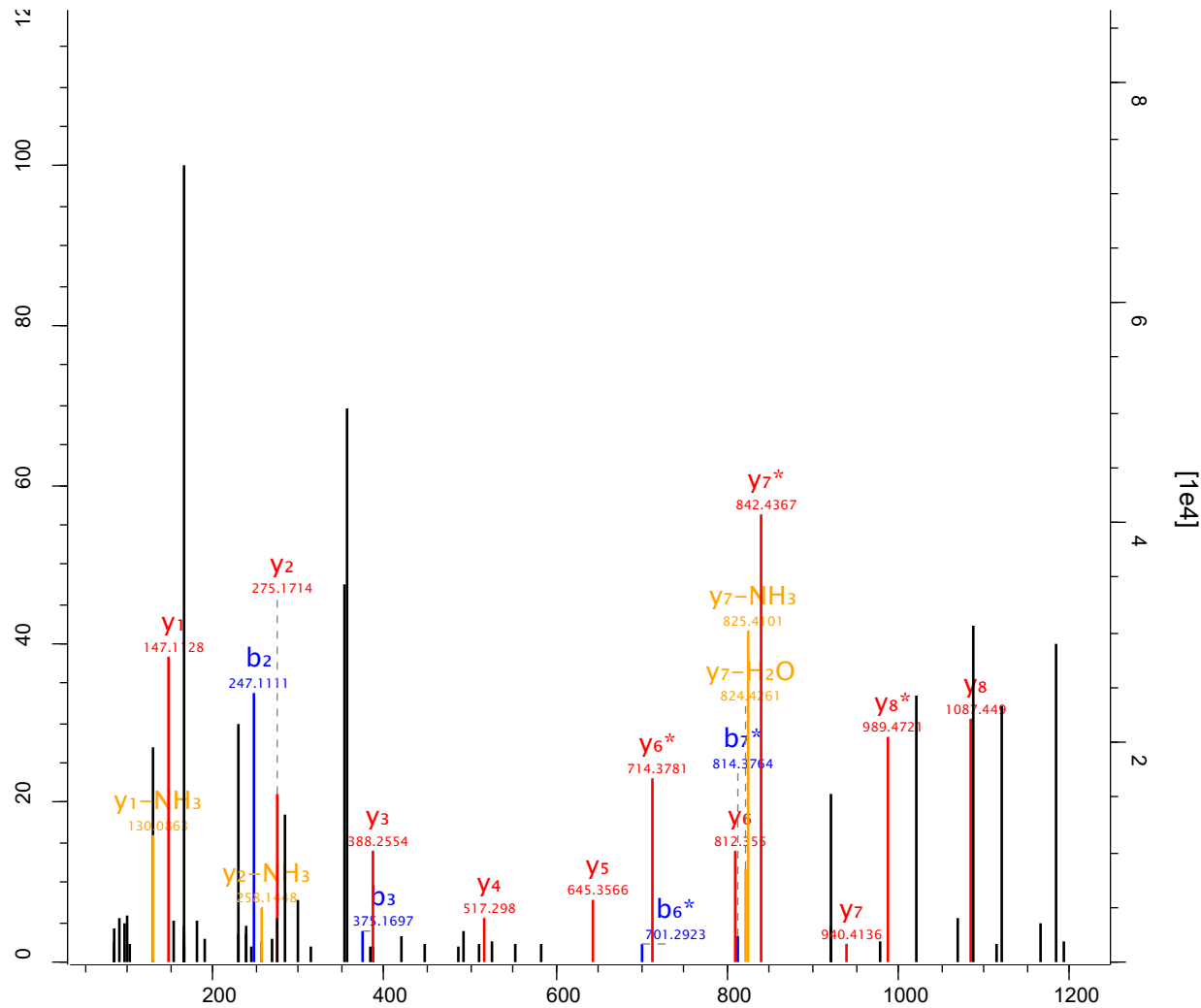
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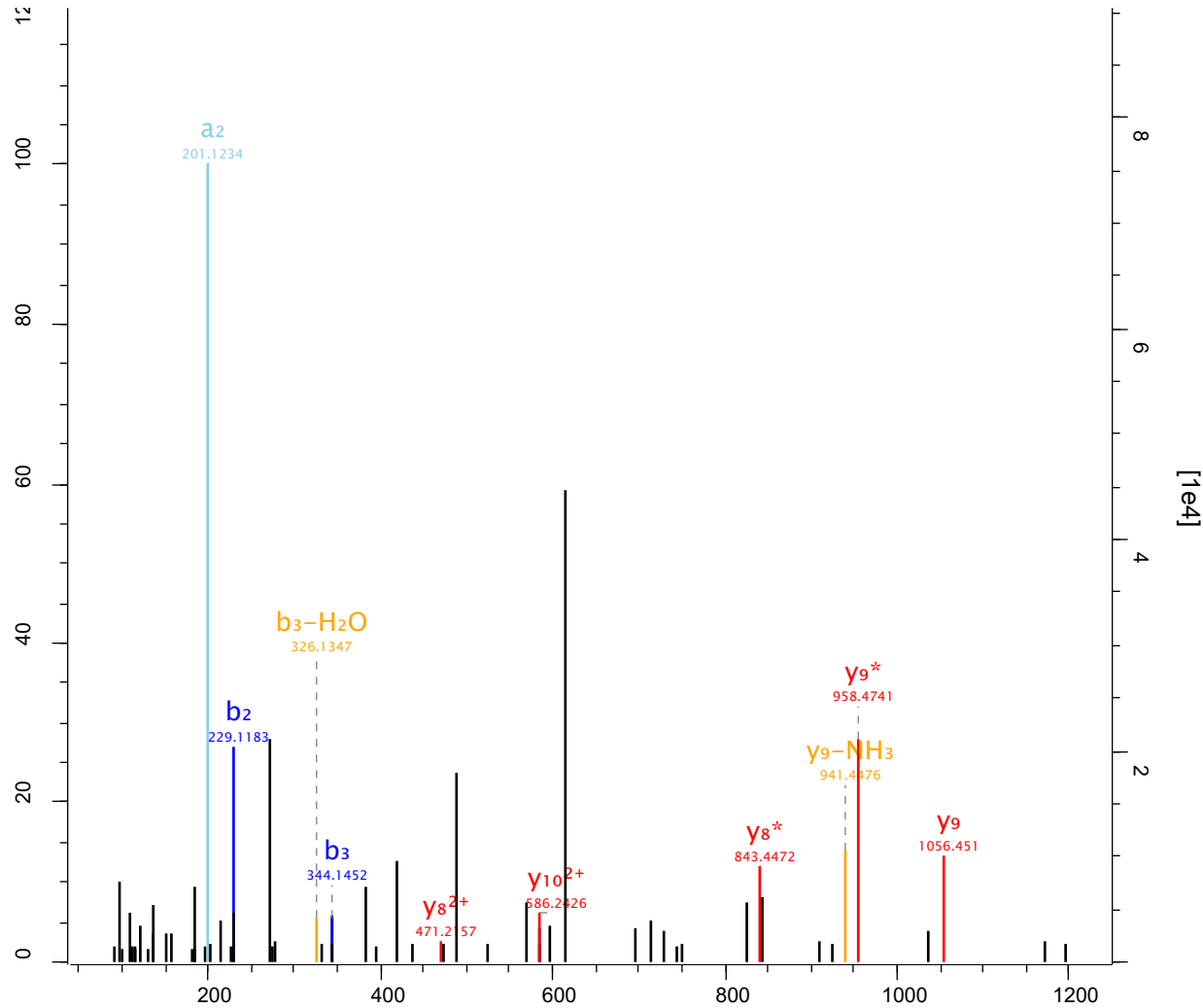
Raw file Scan Method Score m/z
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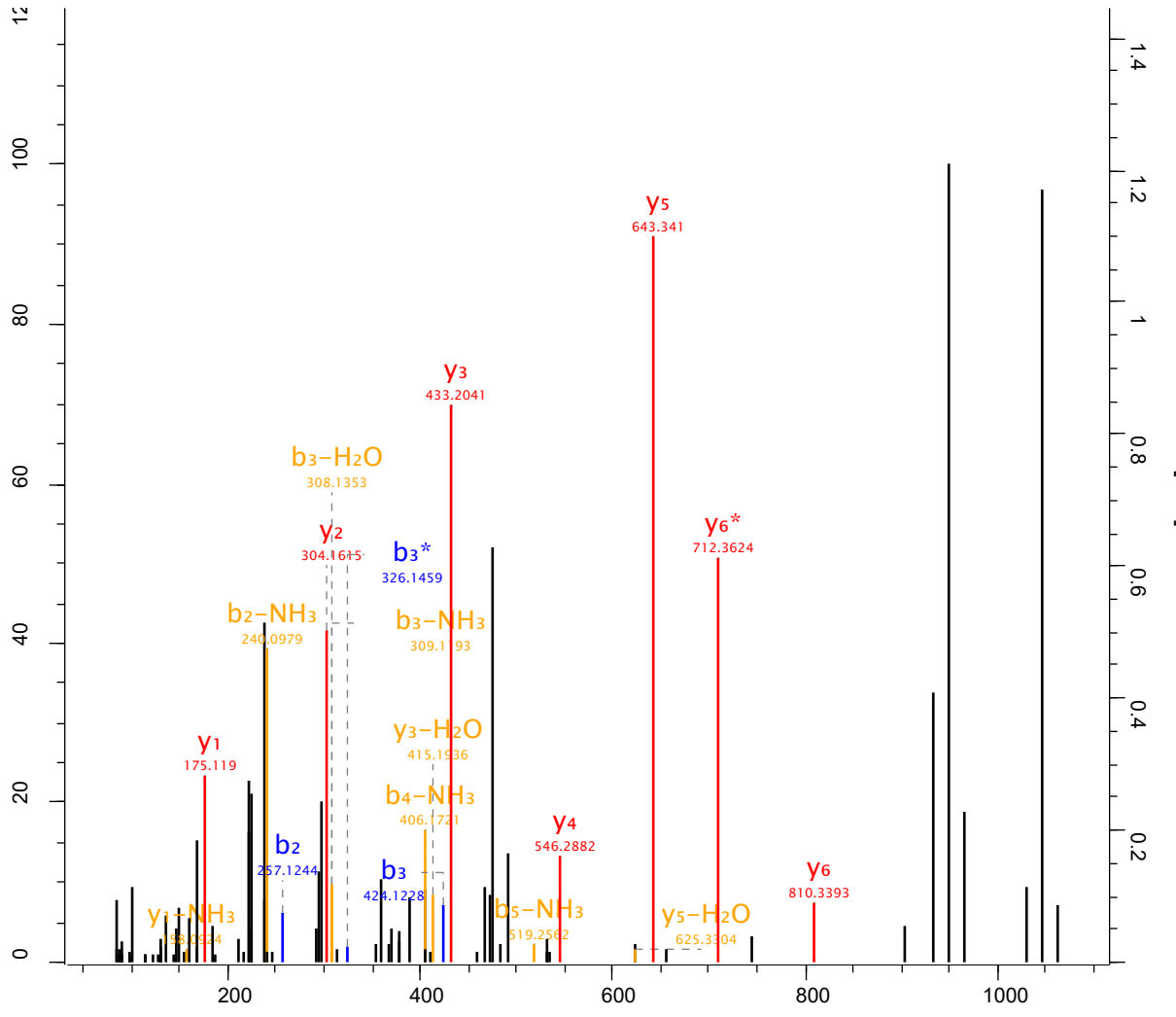


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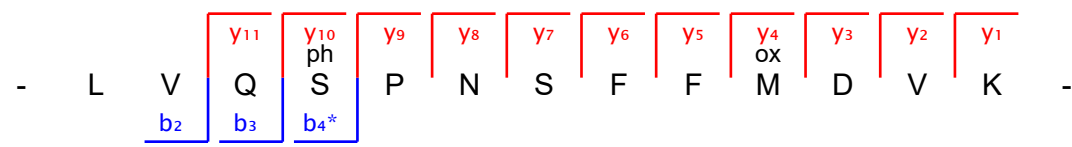
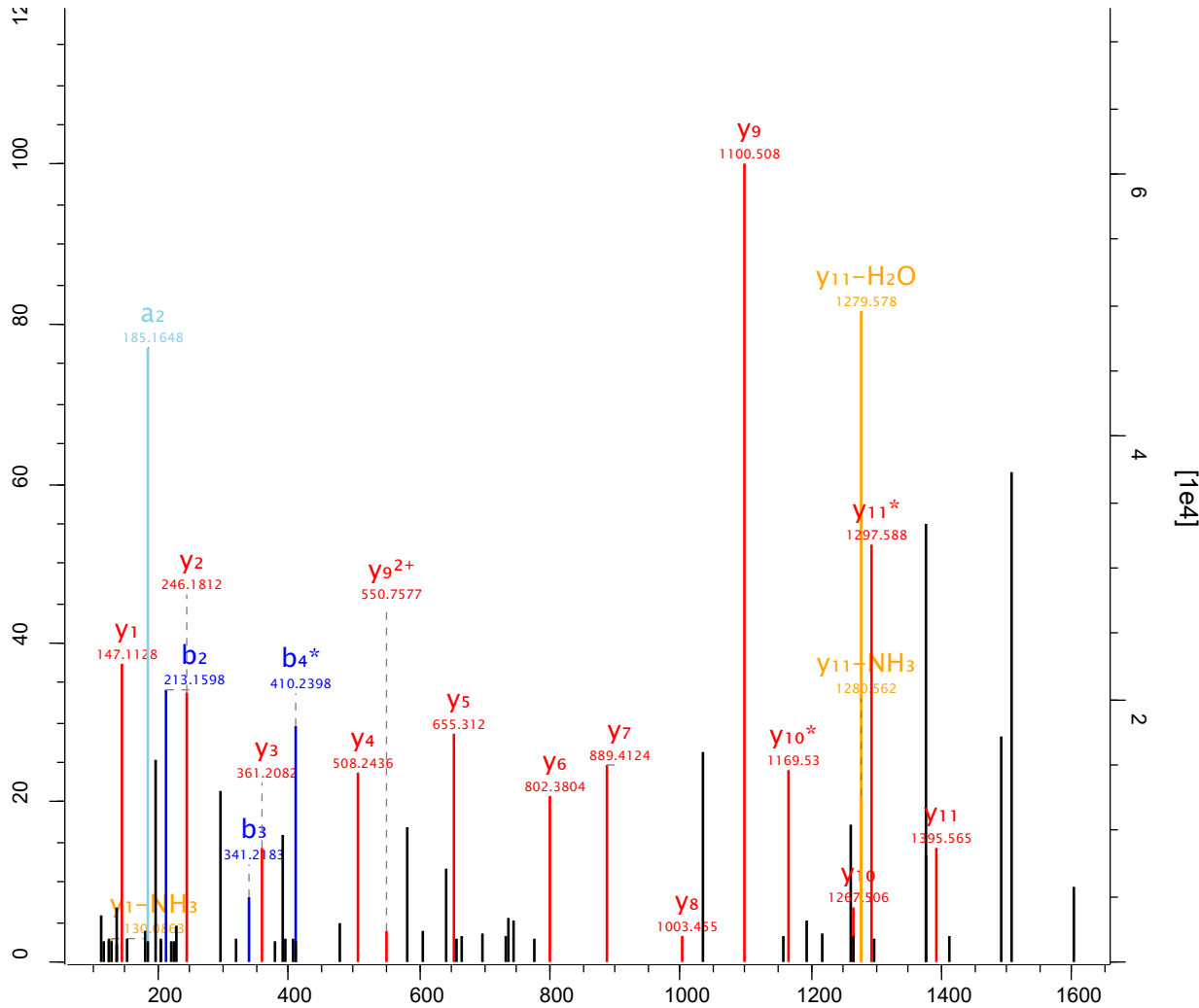
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b₂ b₃

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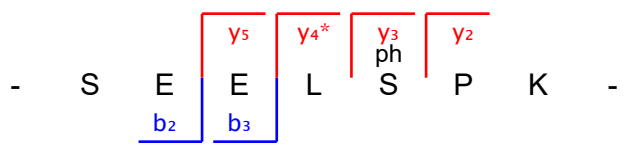
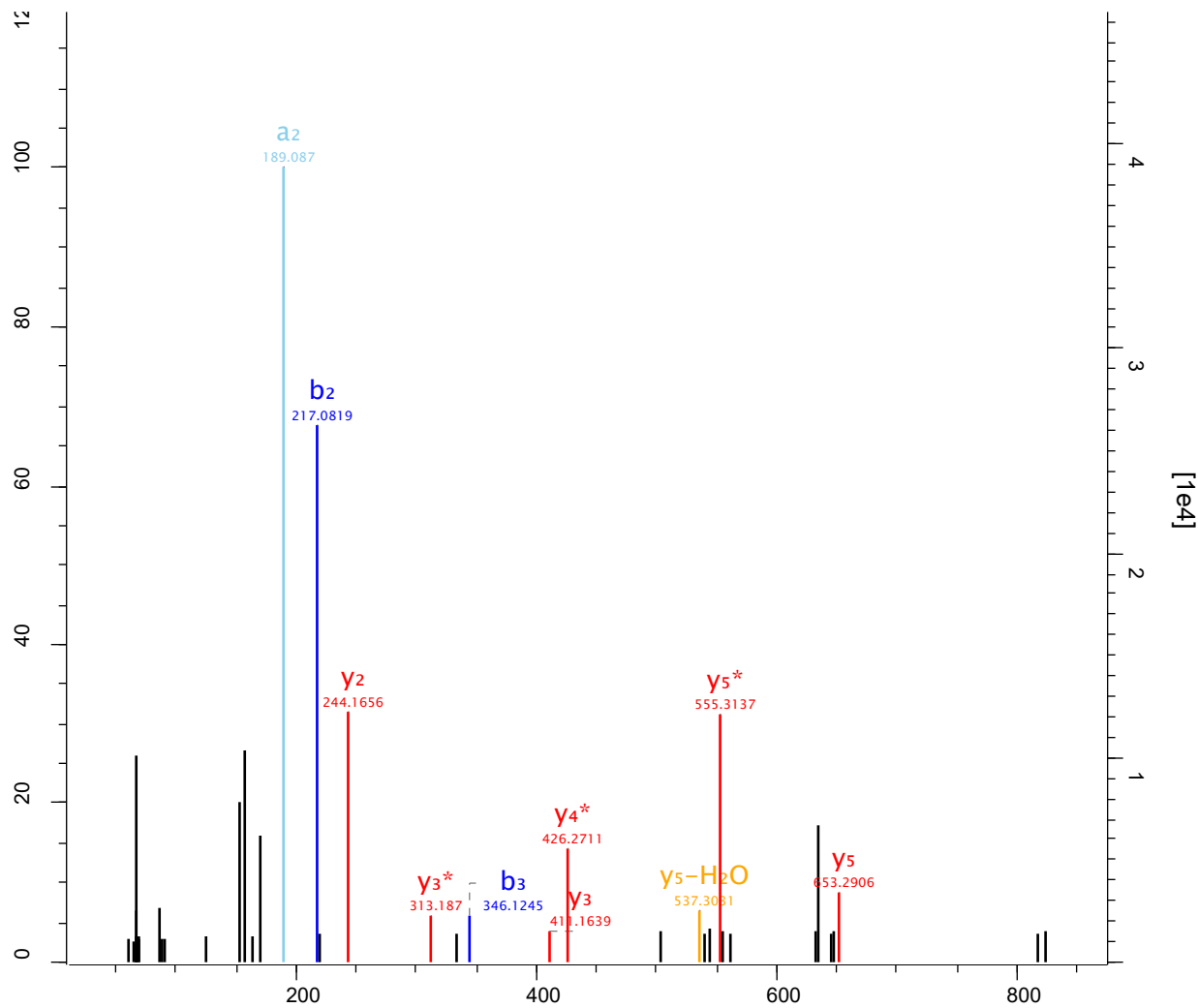


- Q Q y6
ph
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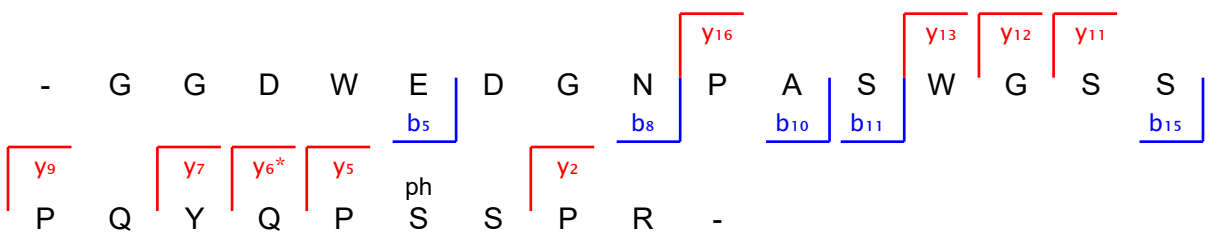
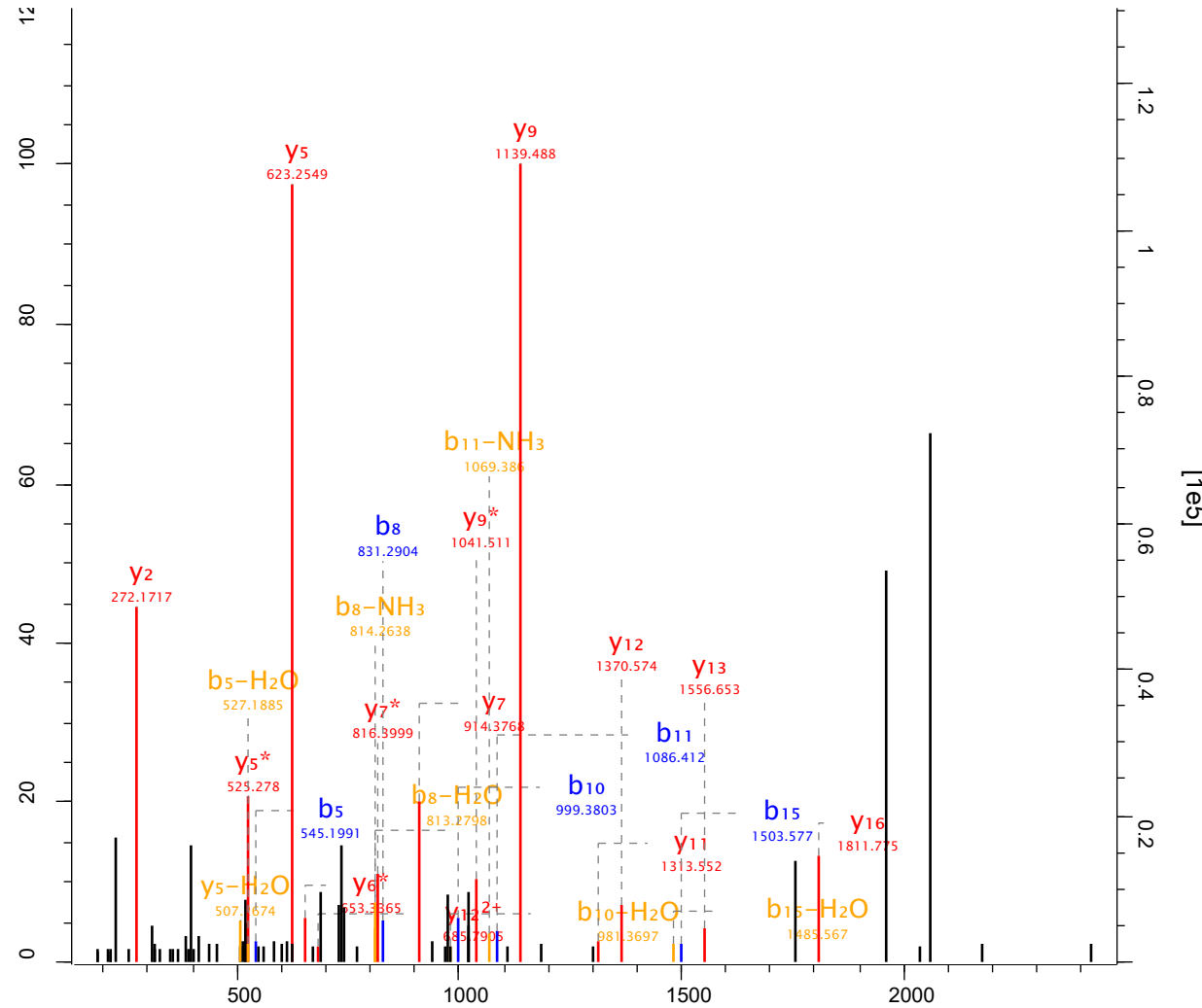
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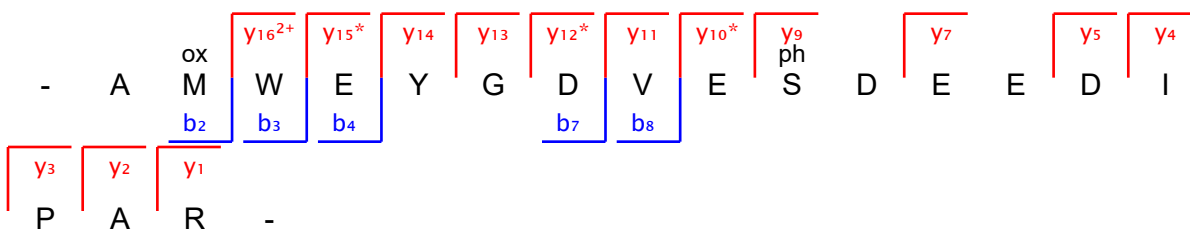
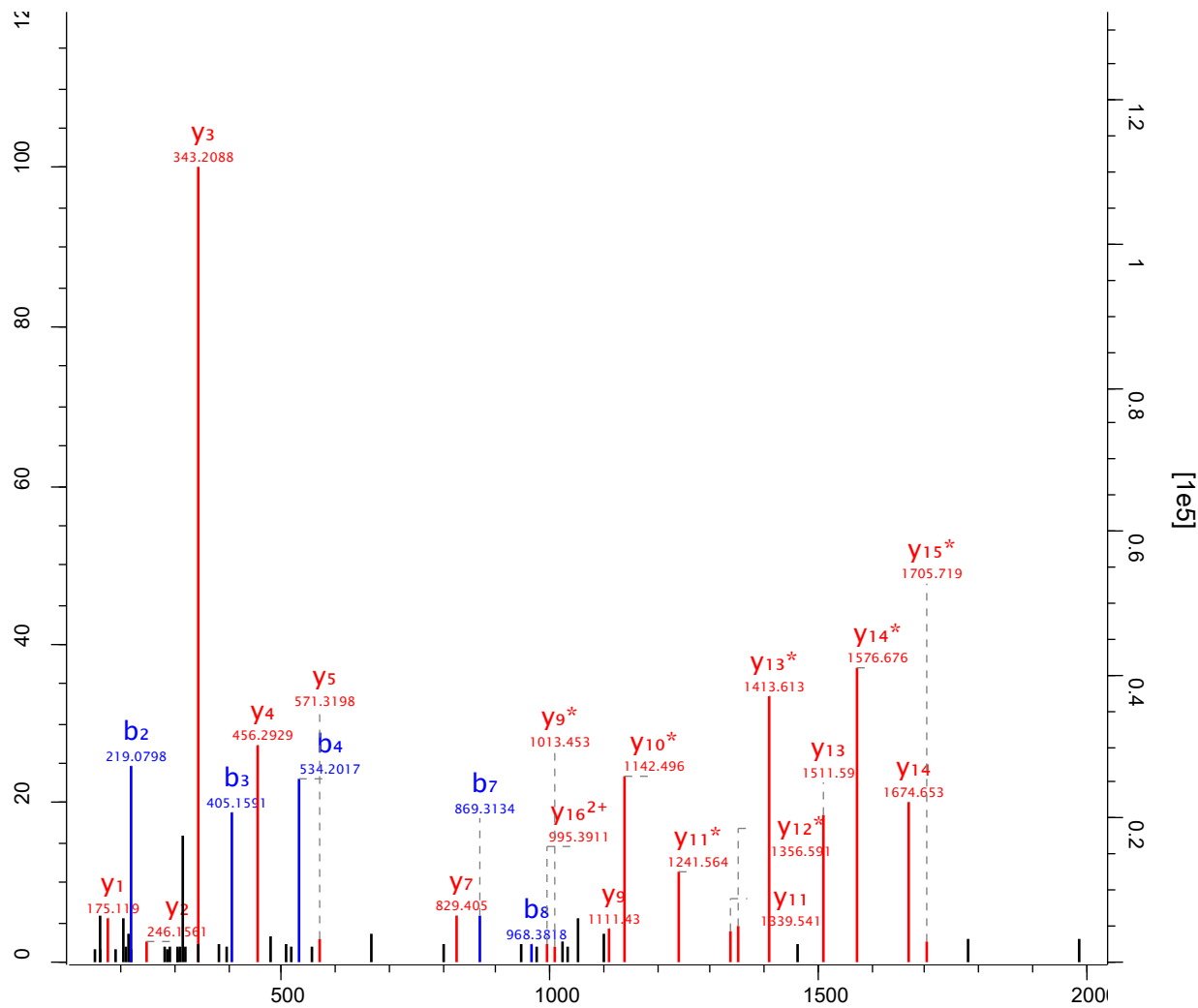
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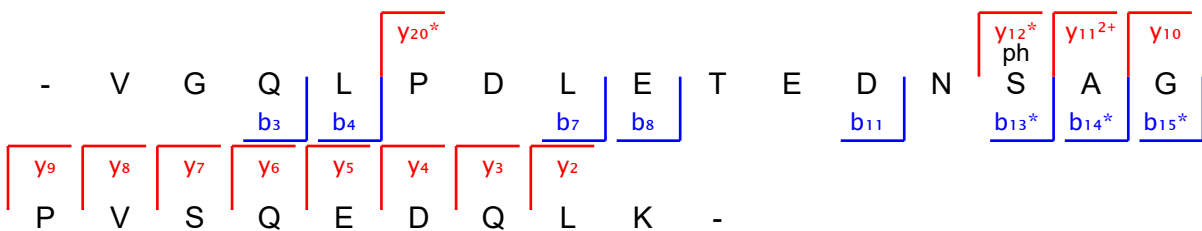
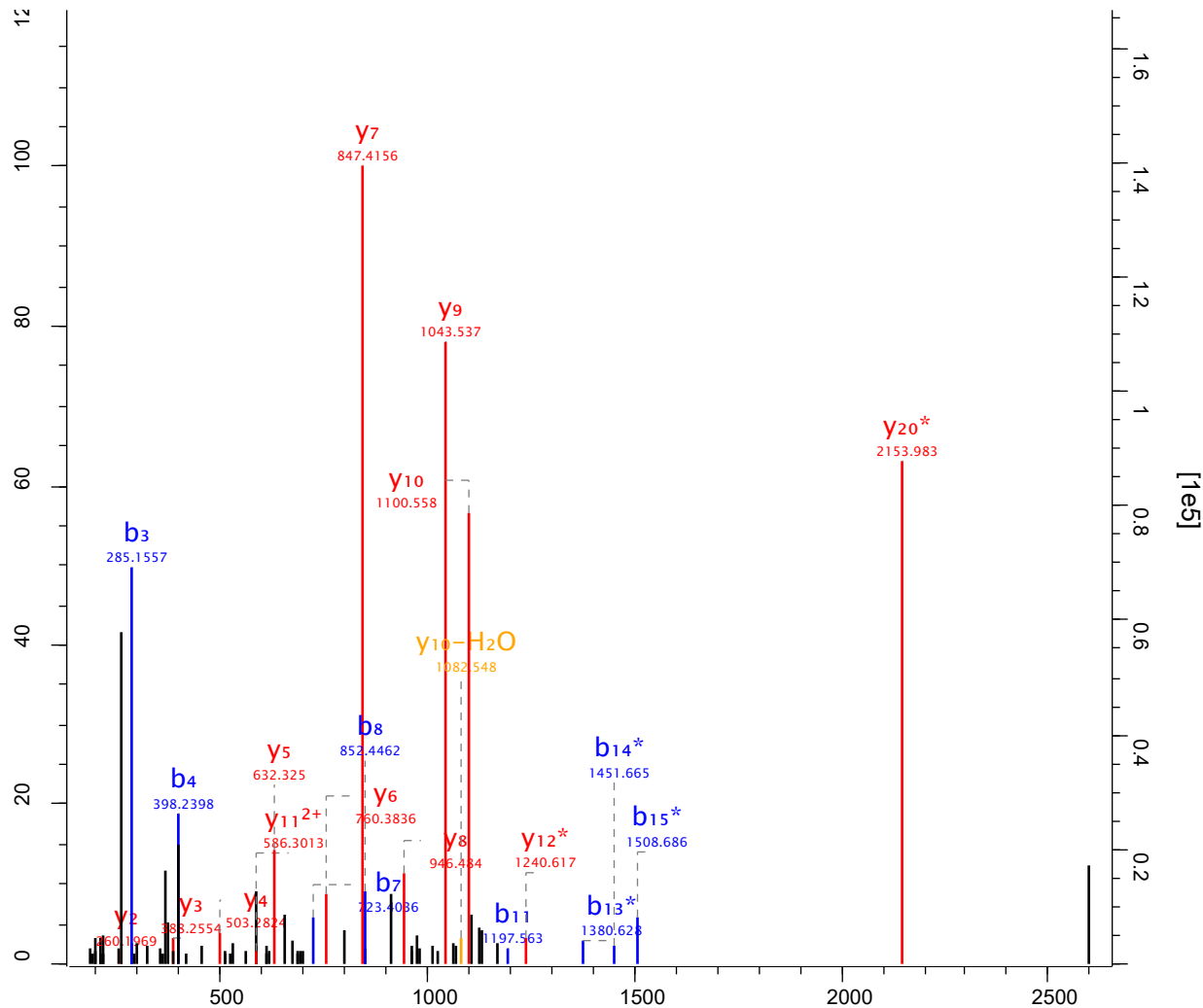
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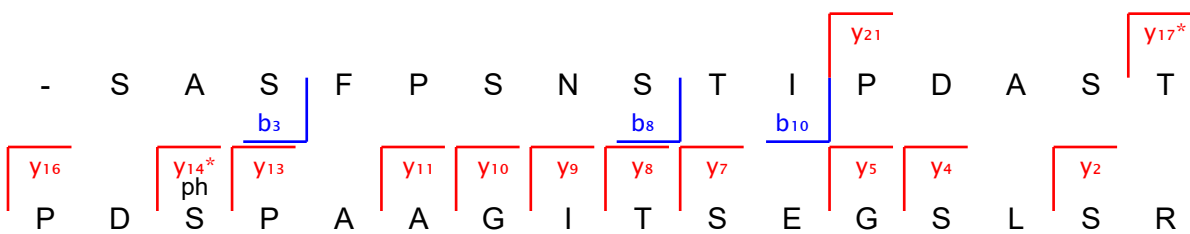
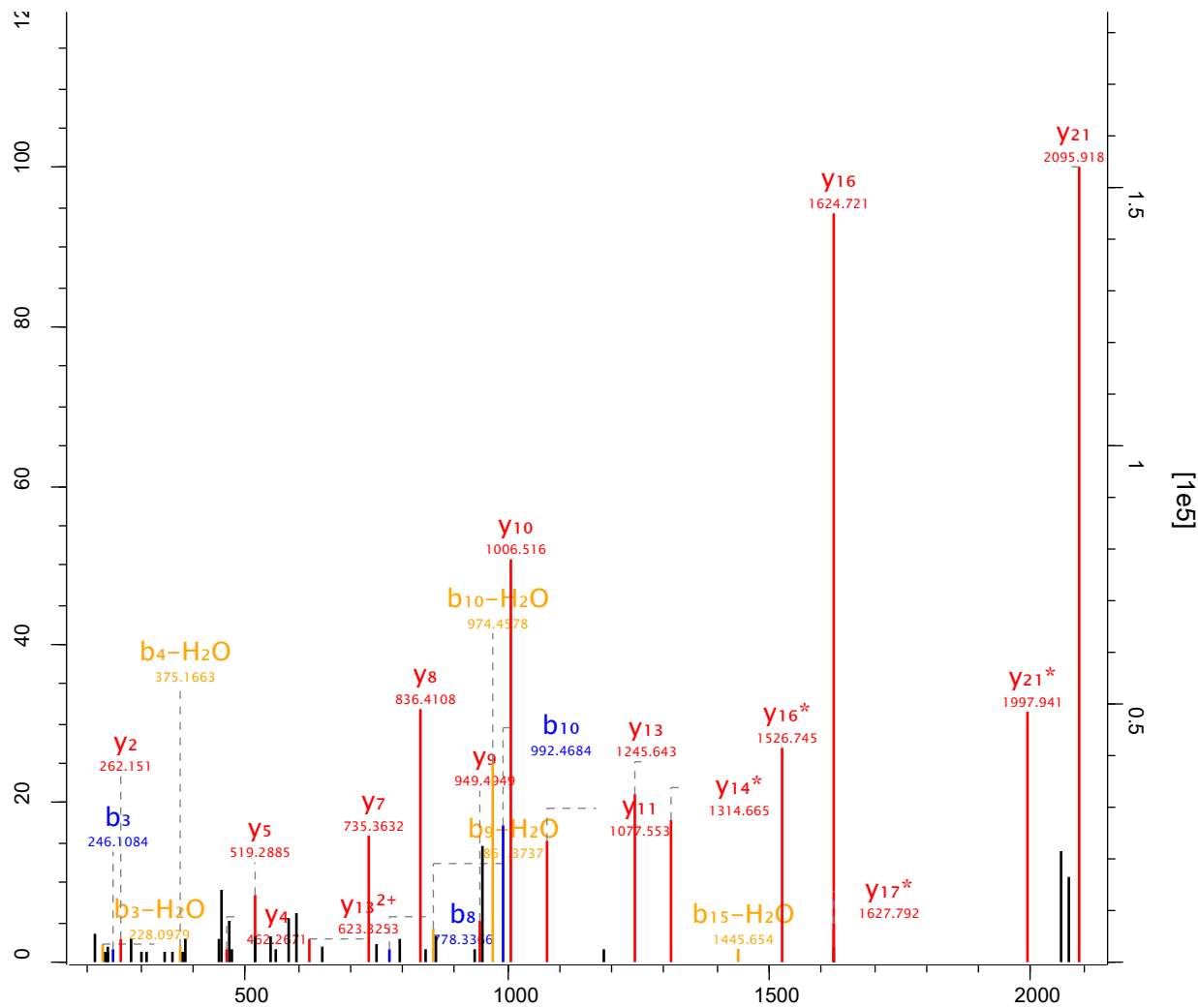
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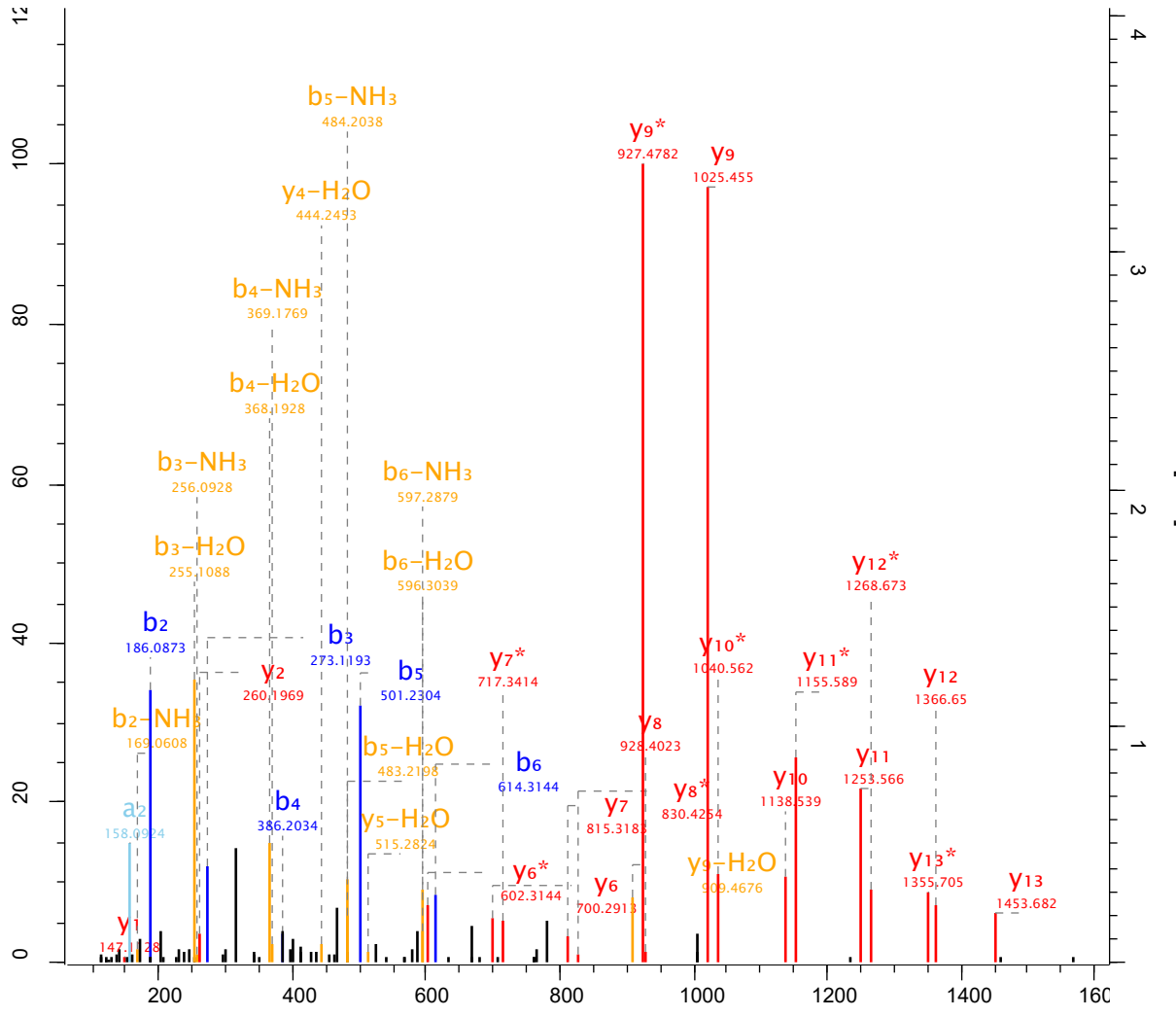
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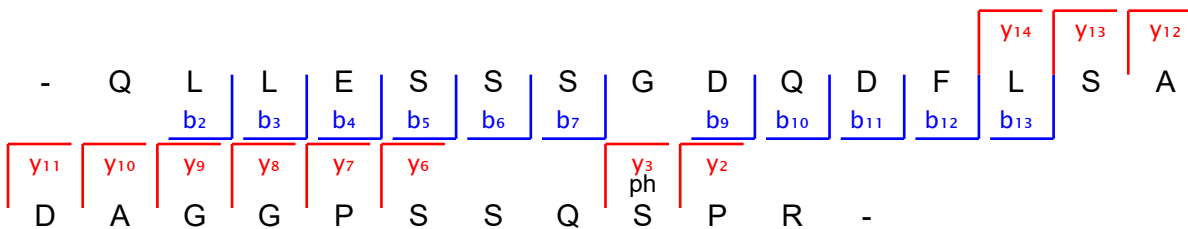
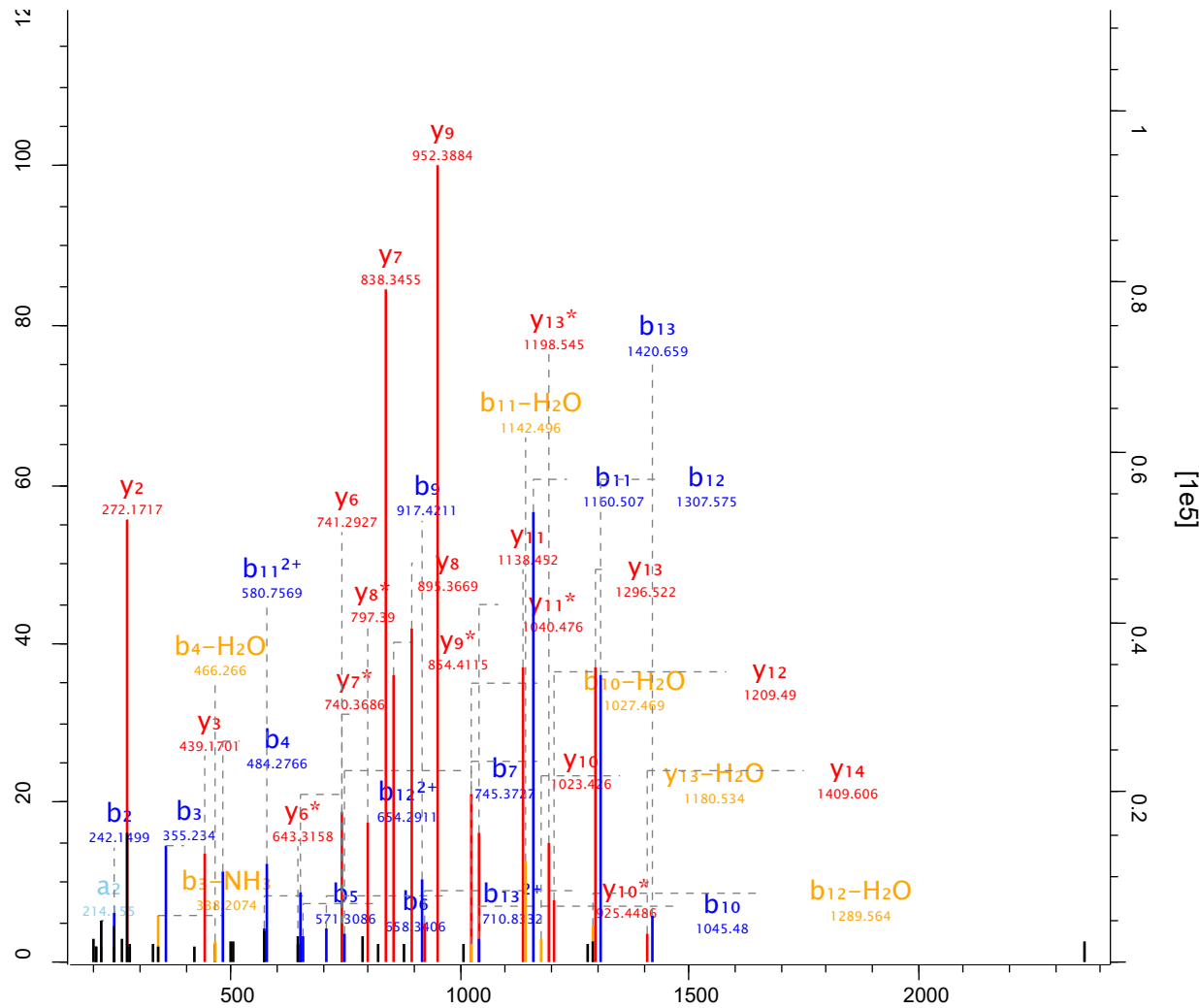
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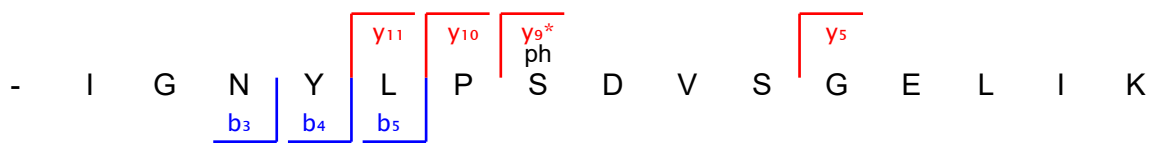
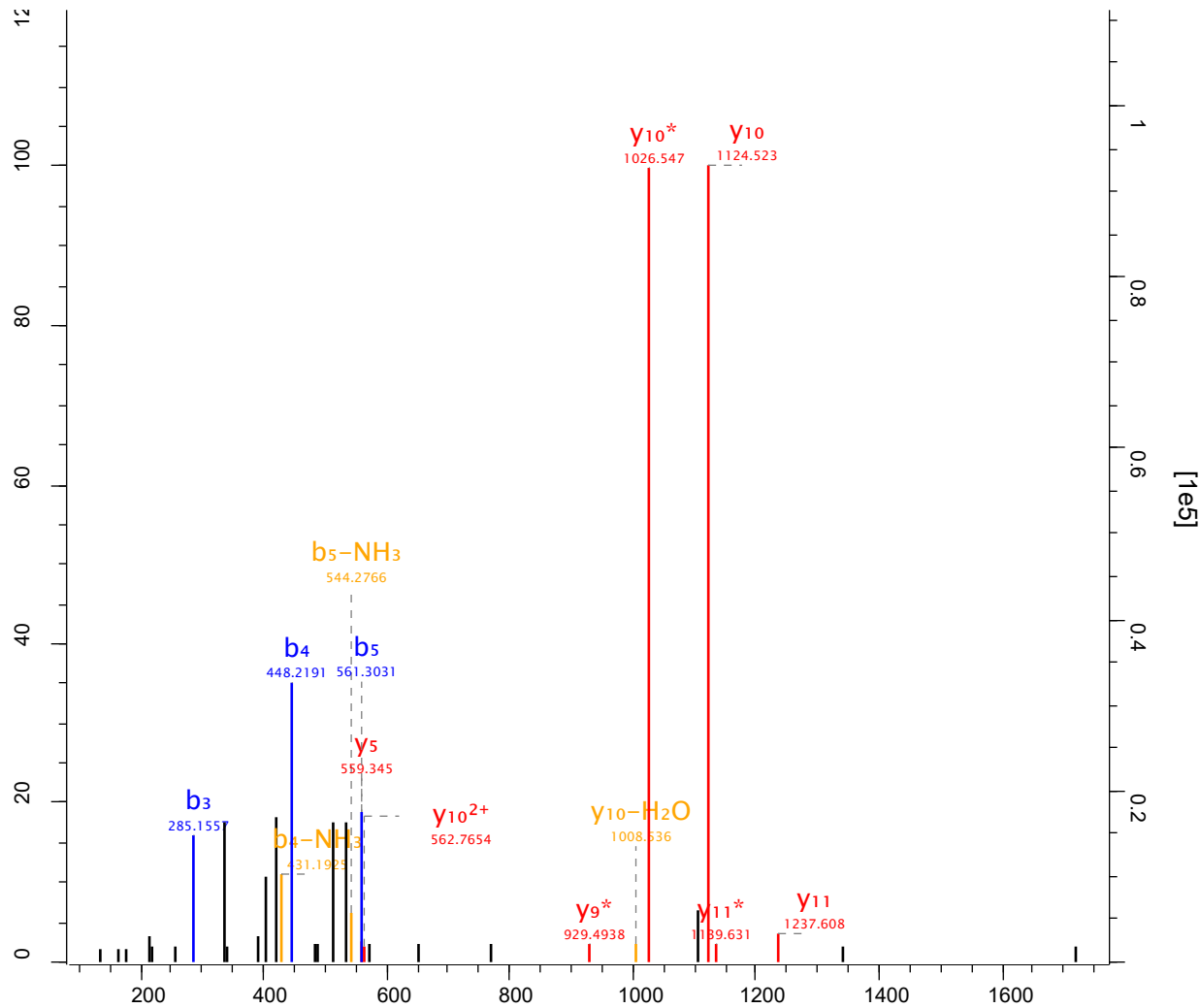
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b₂
b₃
b₄
b₅
b₆
y₁₃
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y₉
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y₁

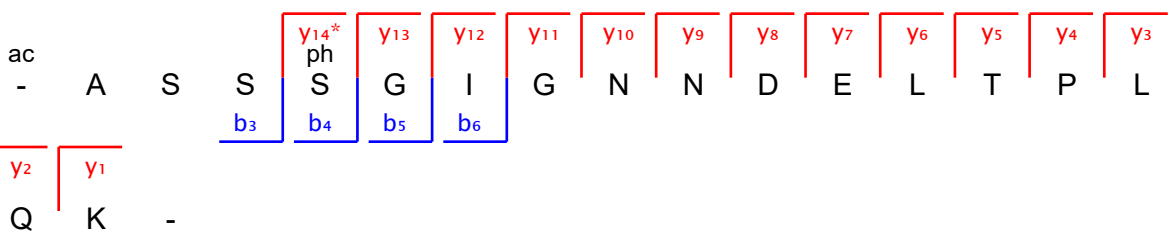
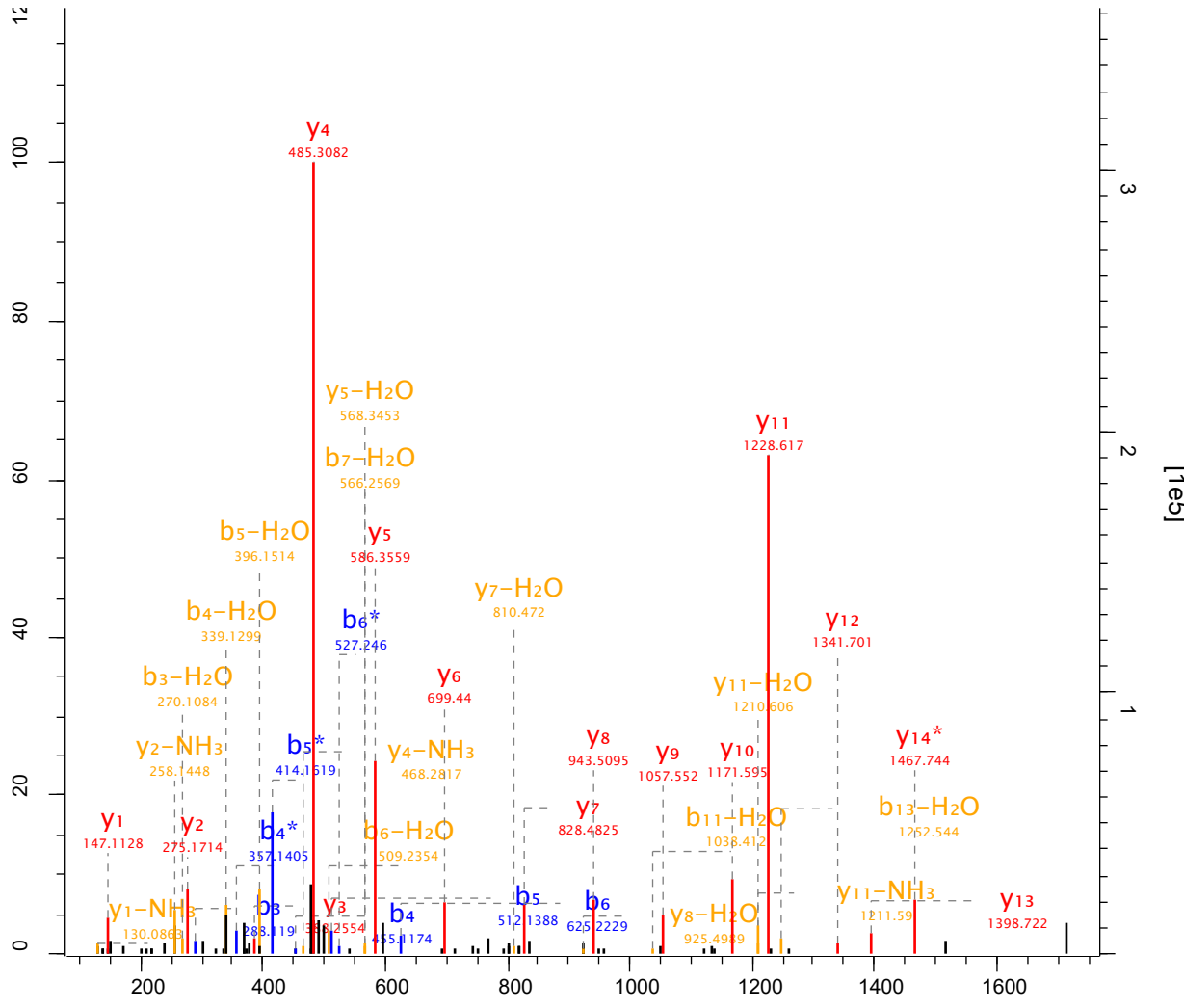
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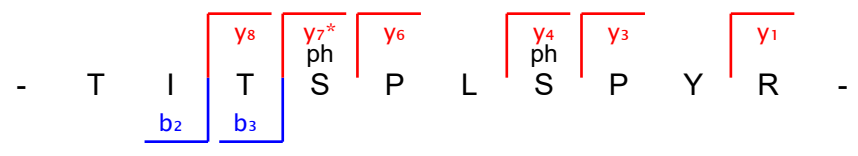
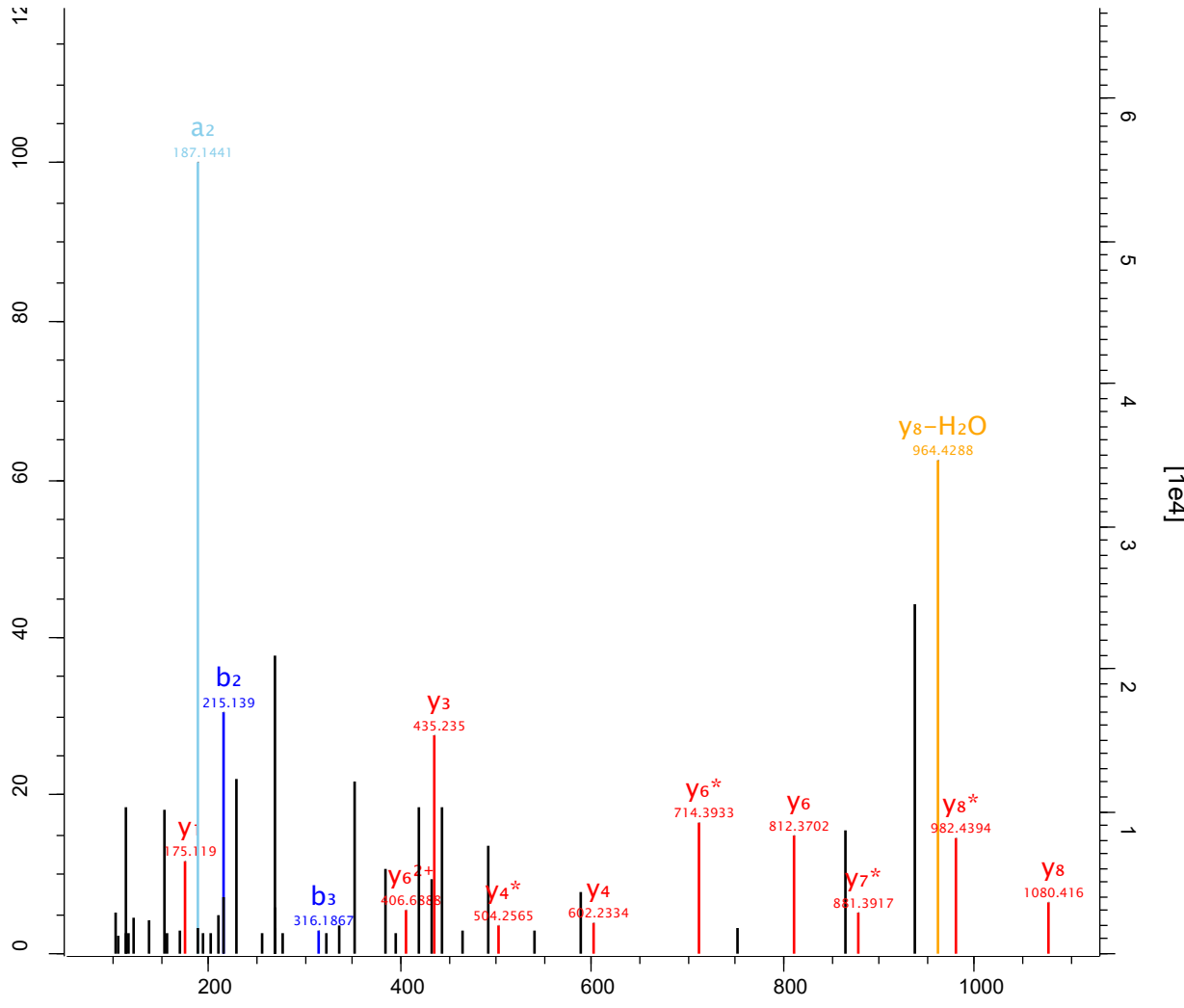
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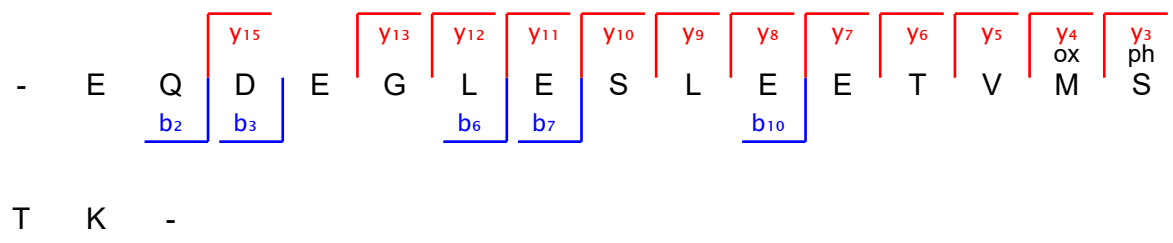
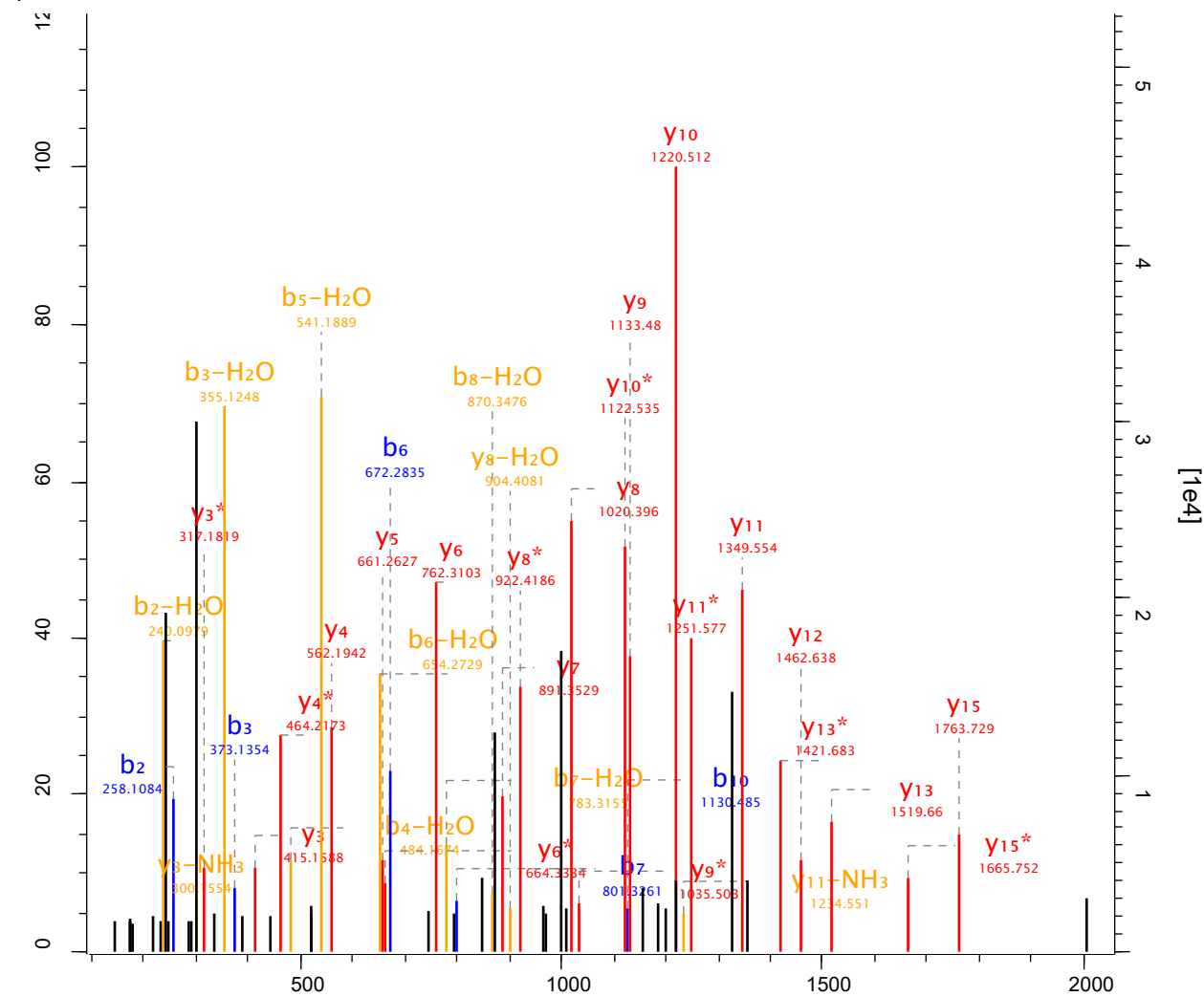
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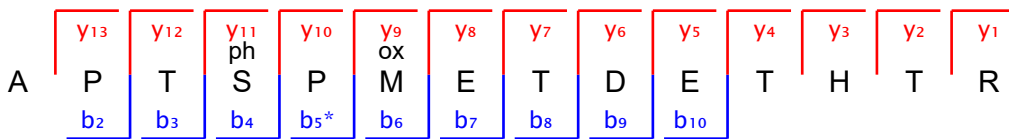
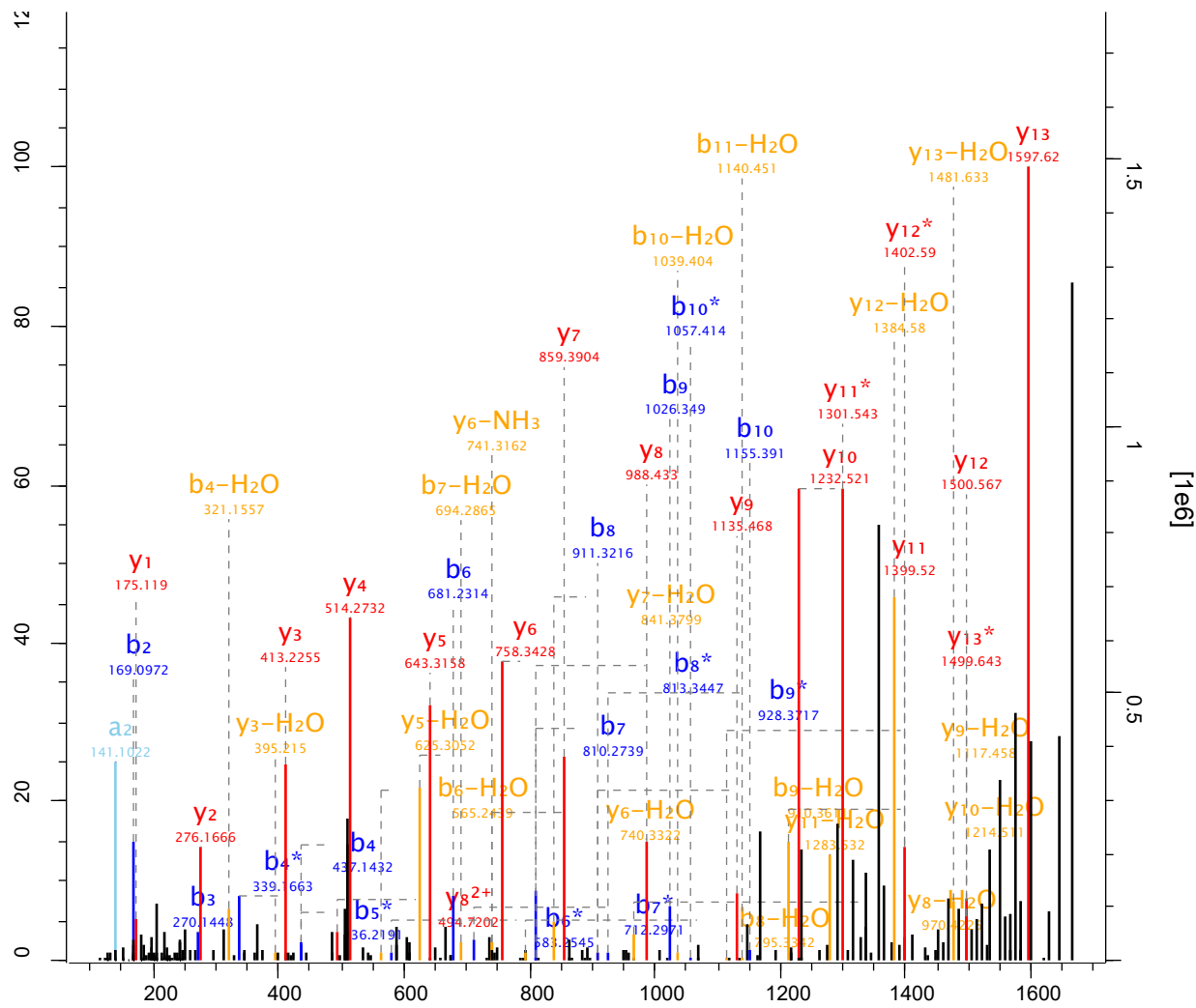
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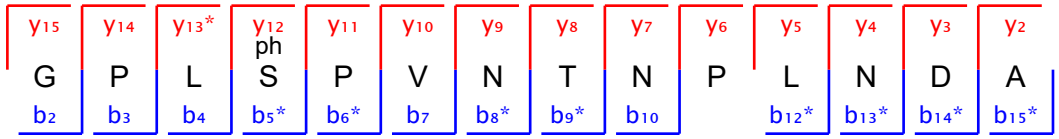
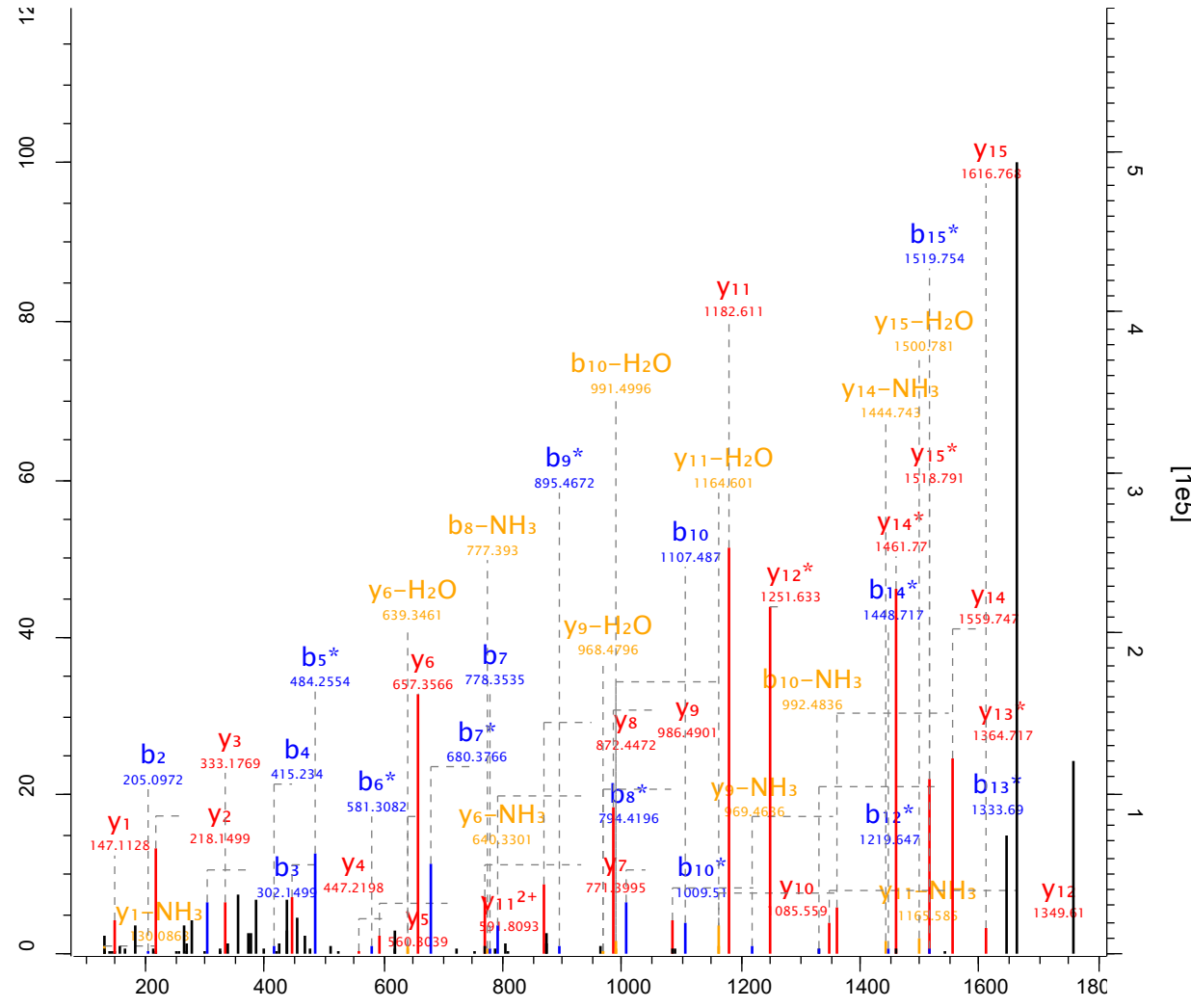
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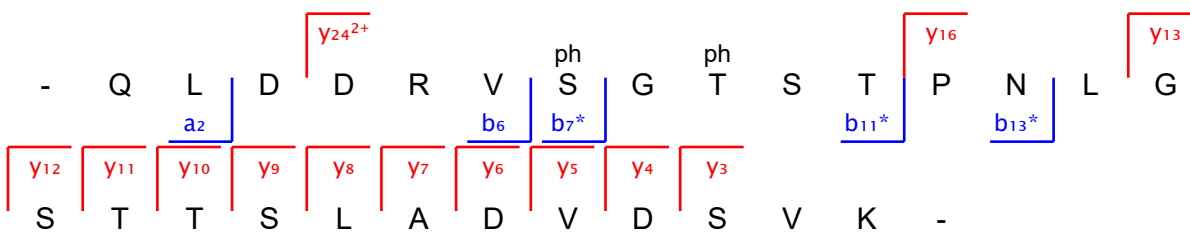
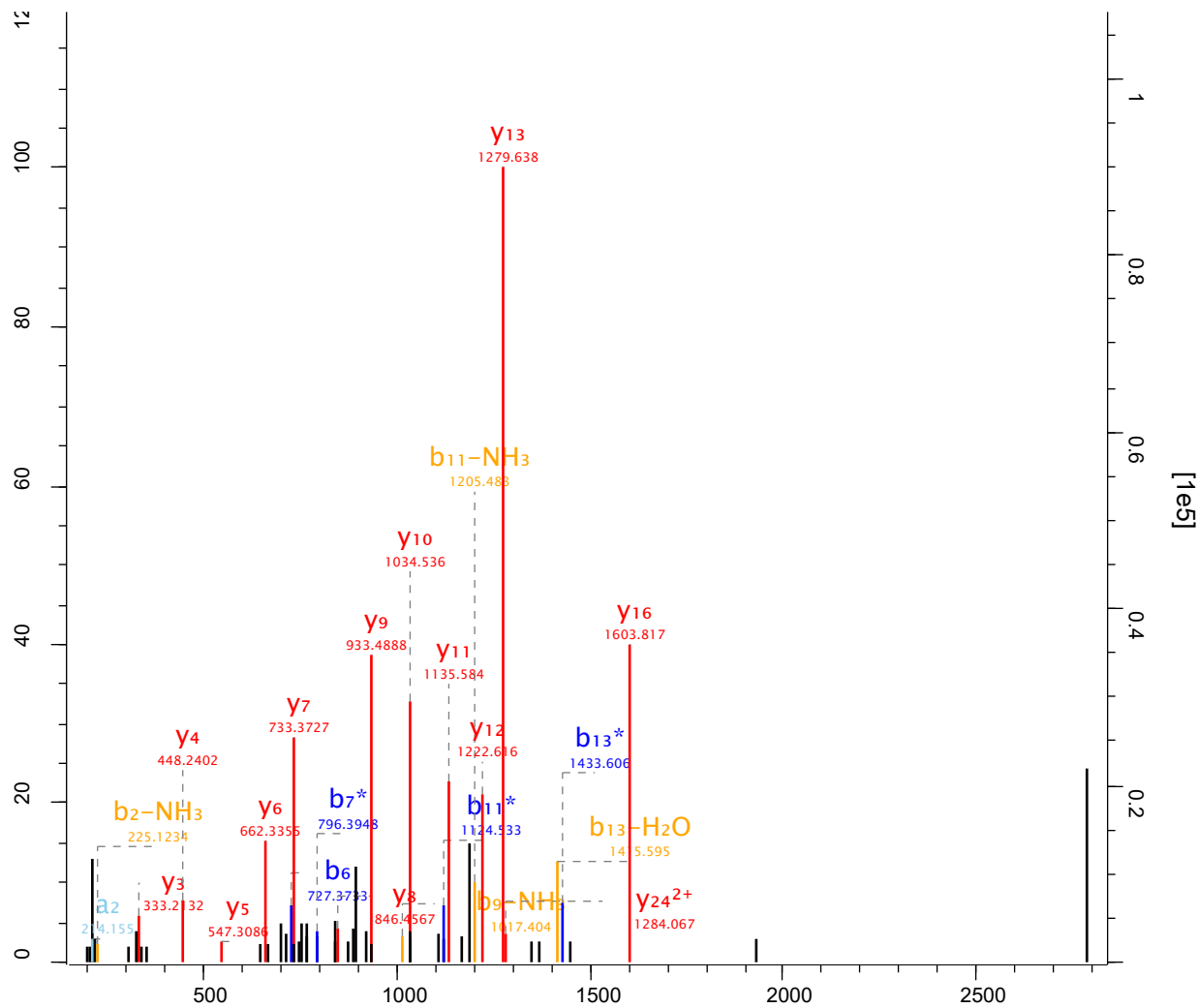


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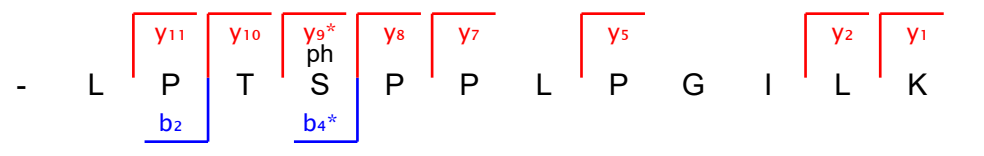
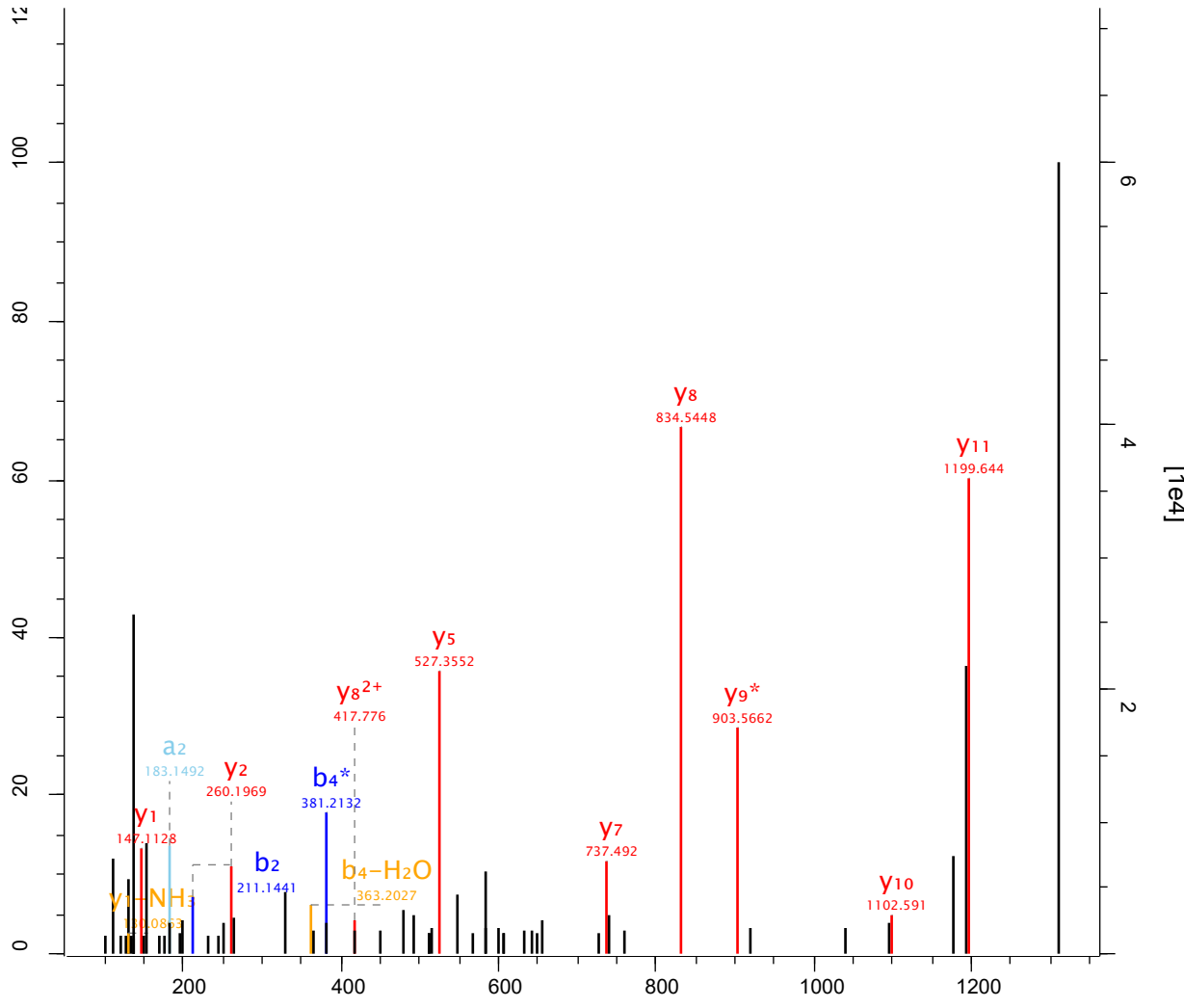


y1
K -

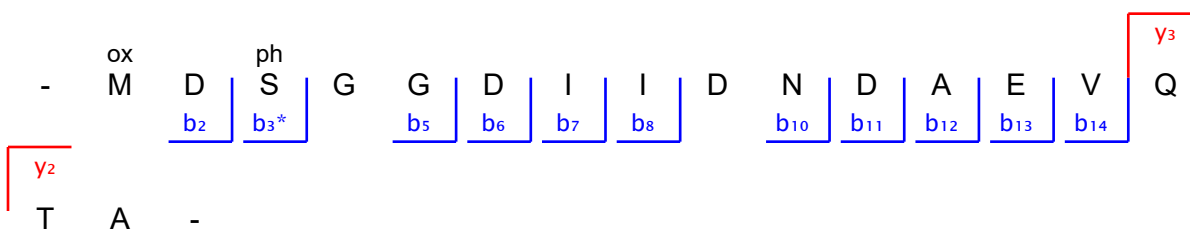
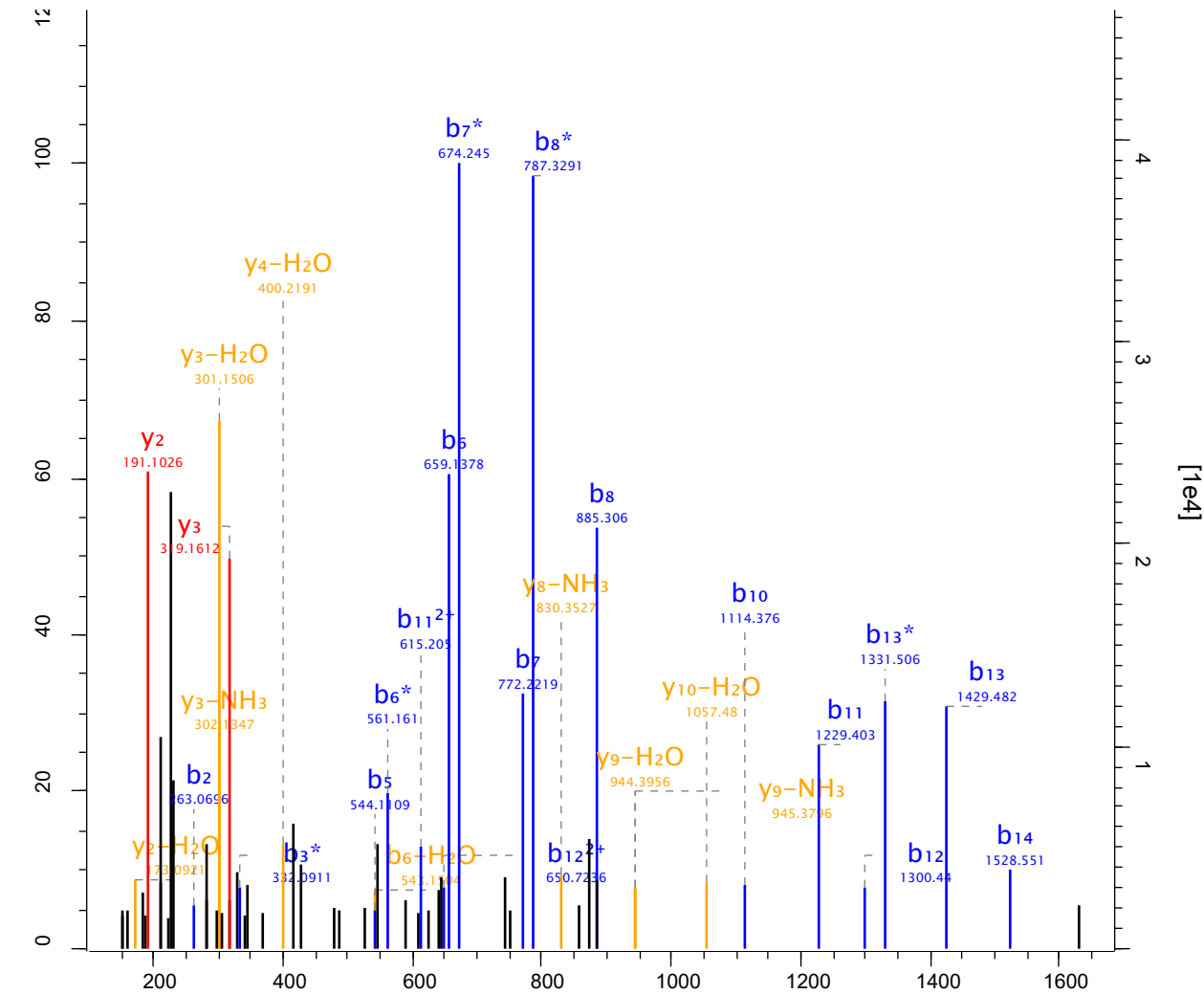
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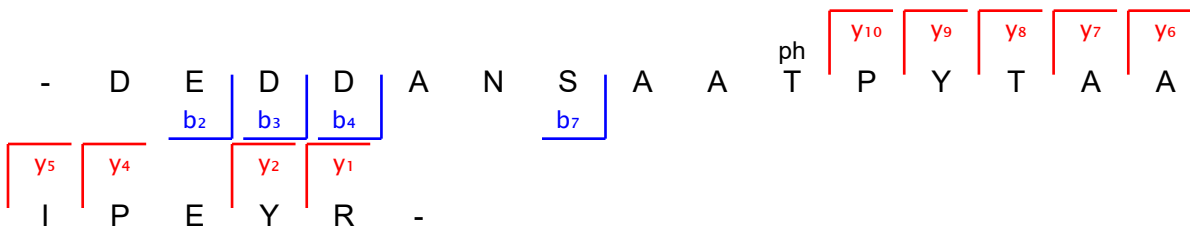
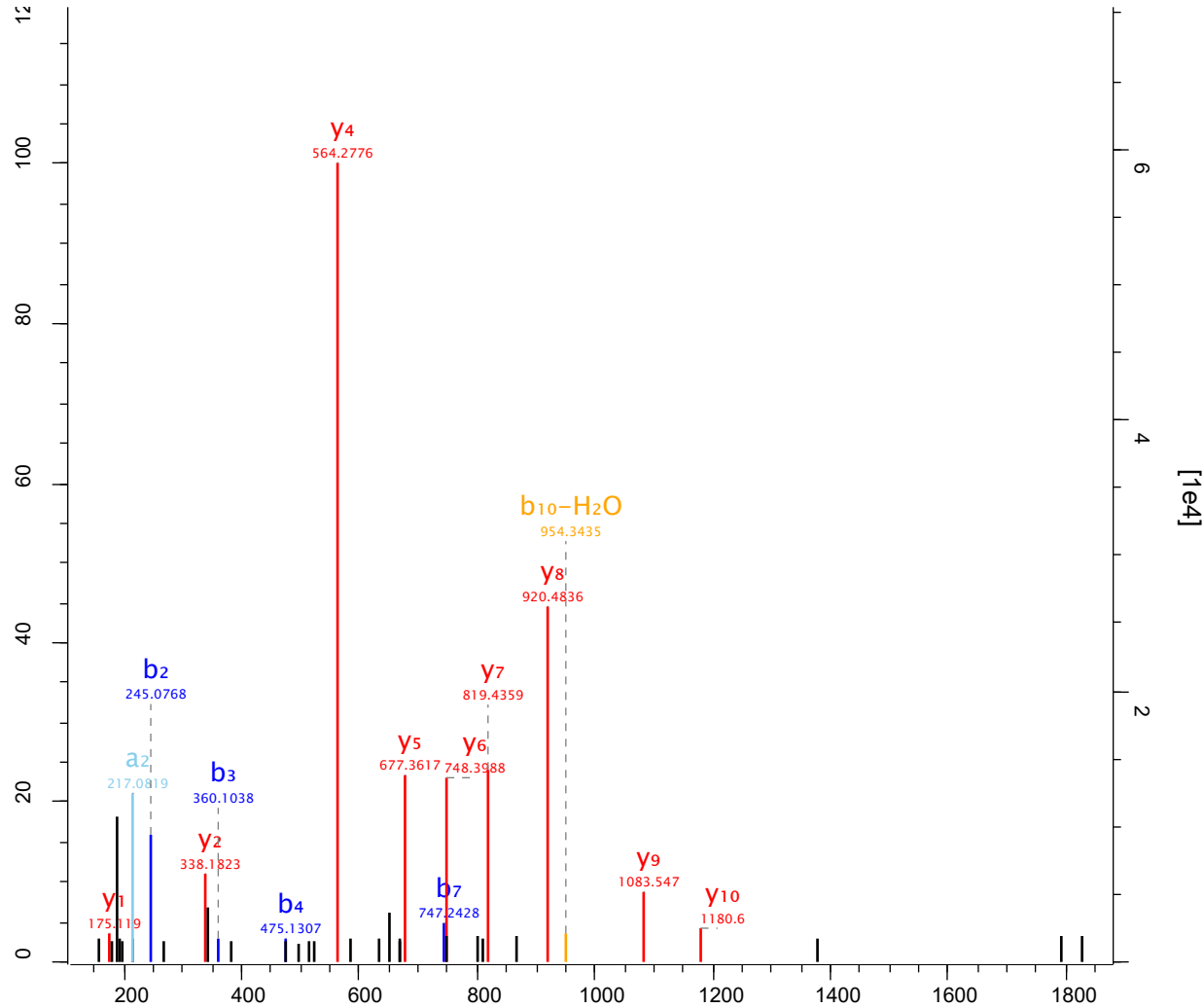
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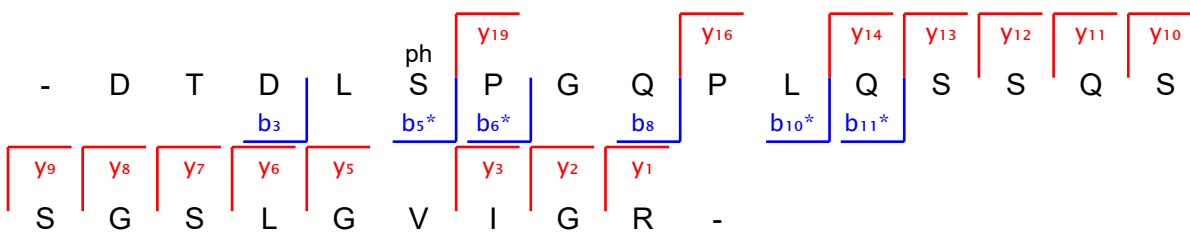
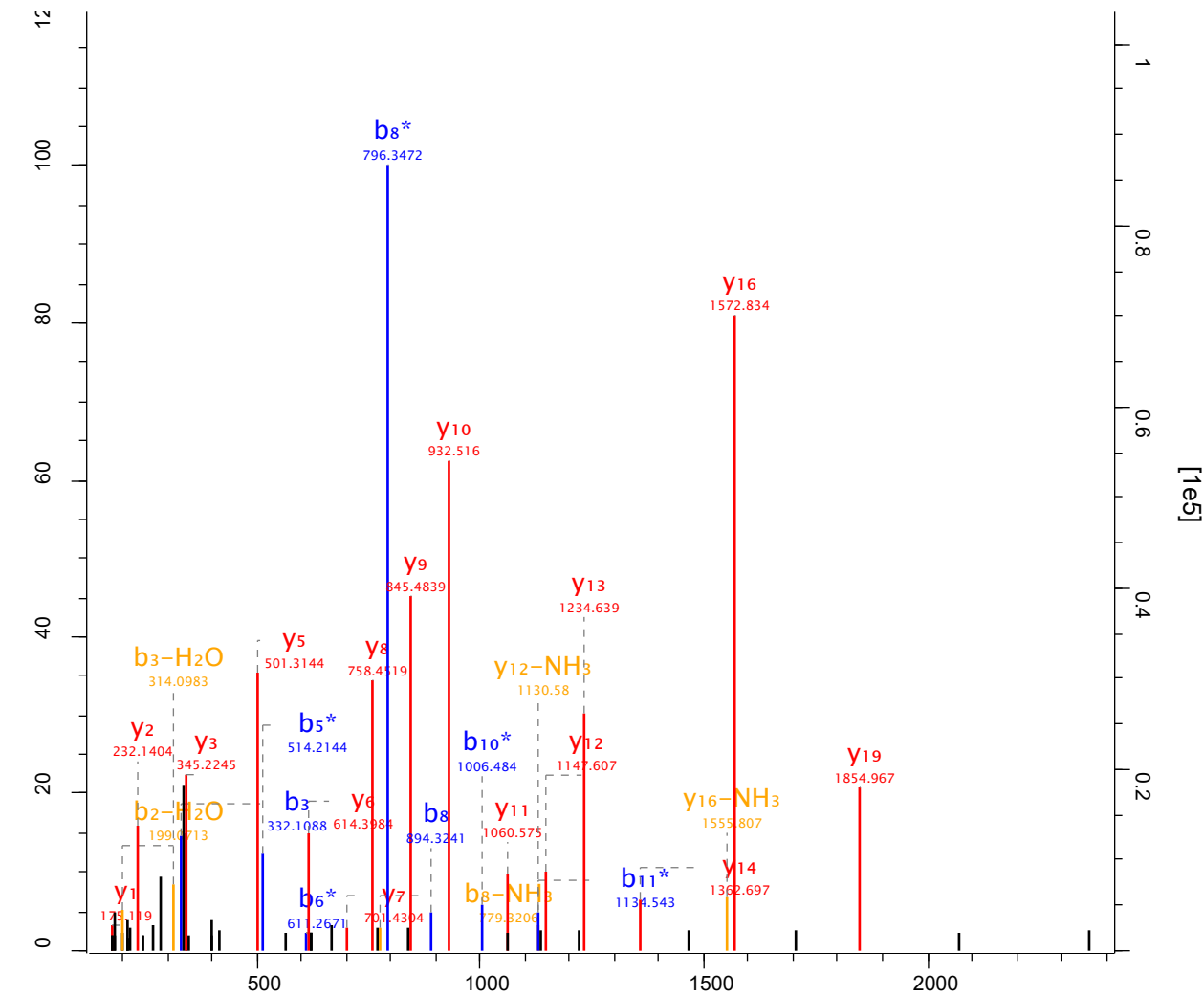
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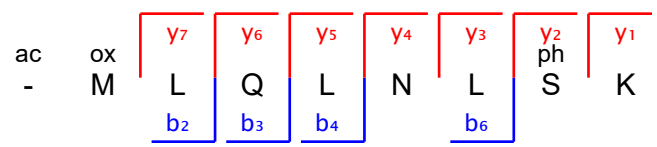
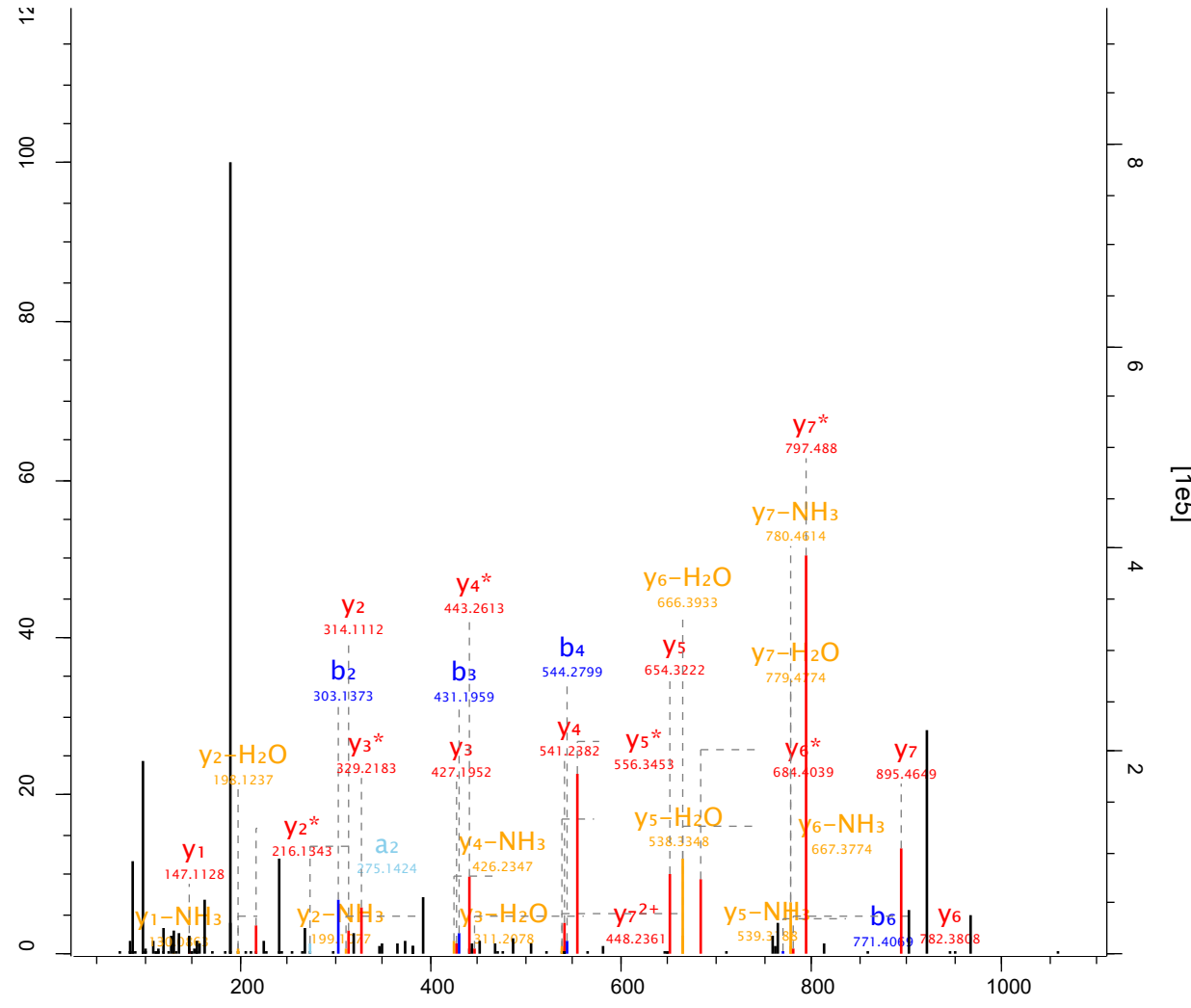
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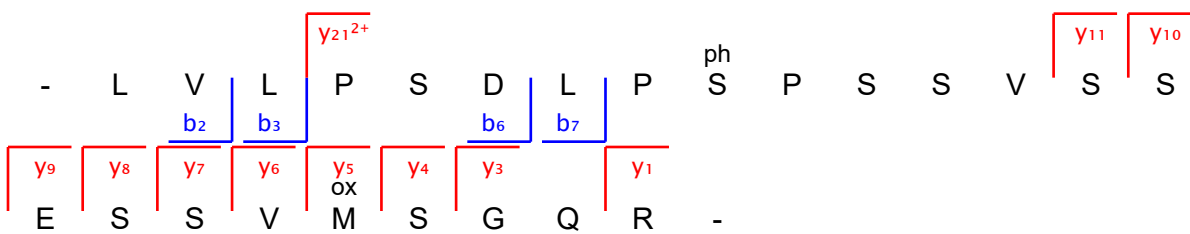
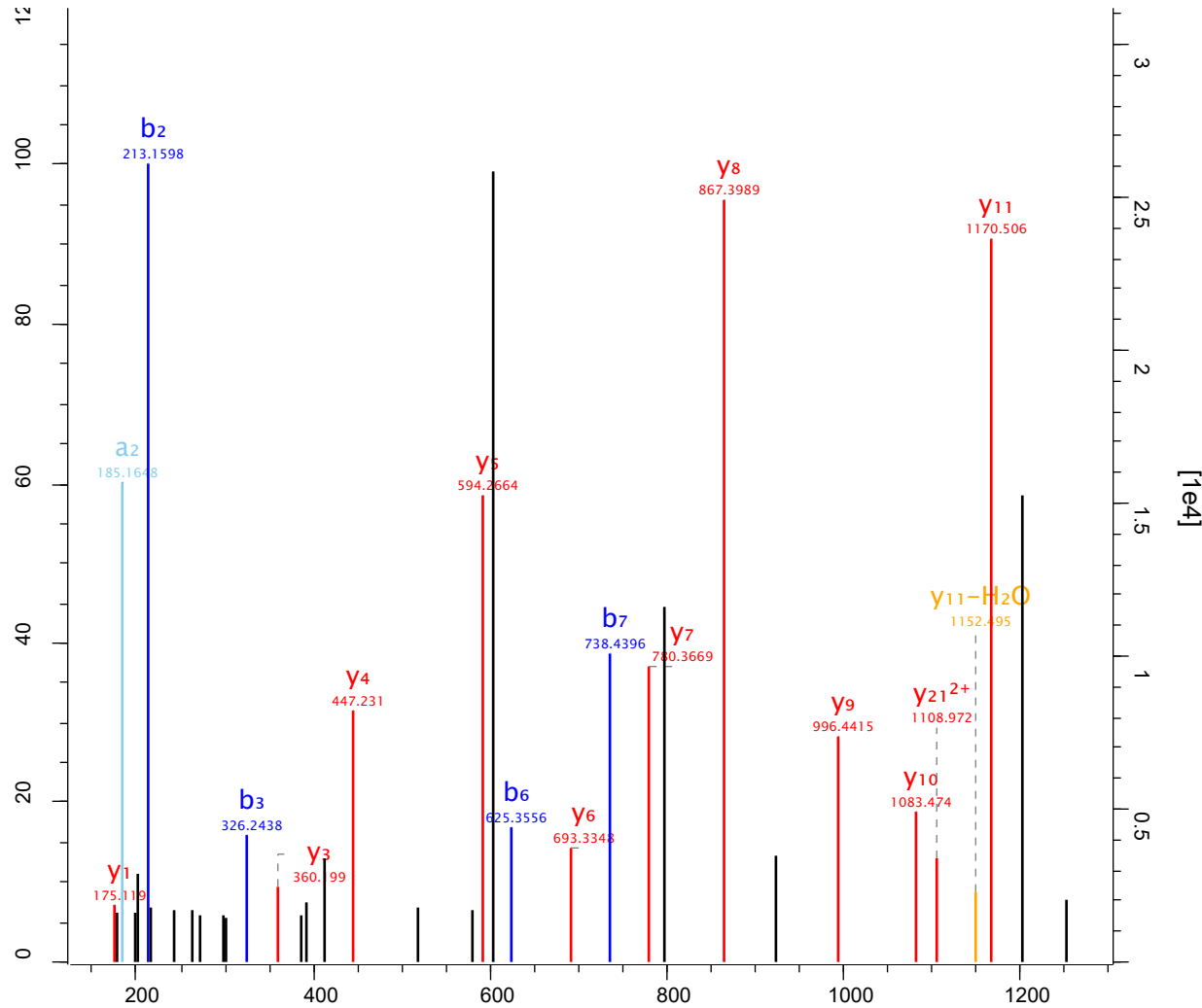
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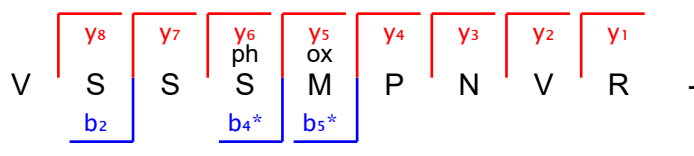
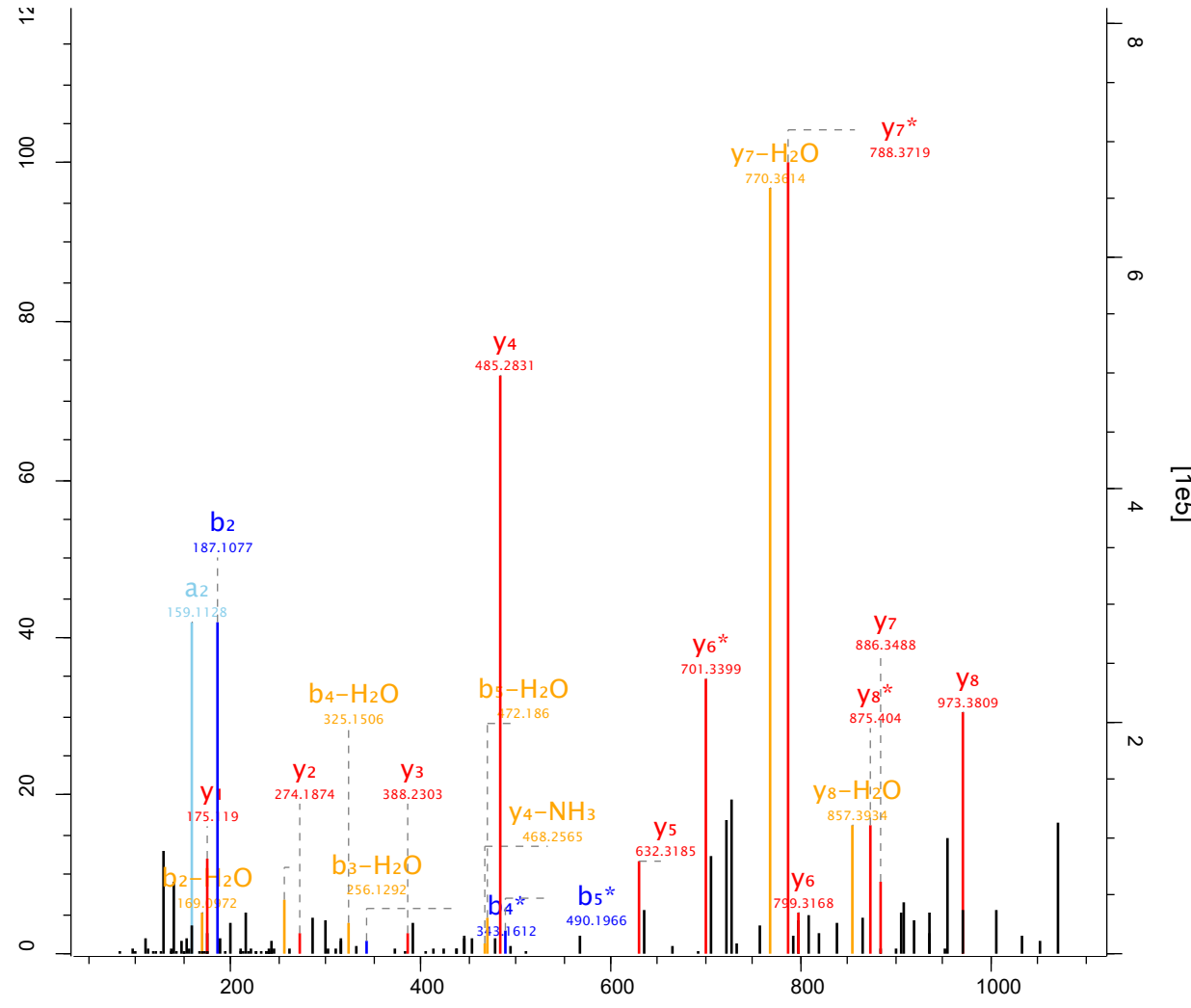
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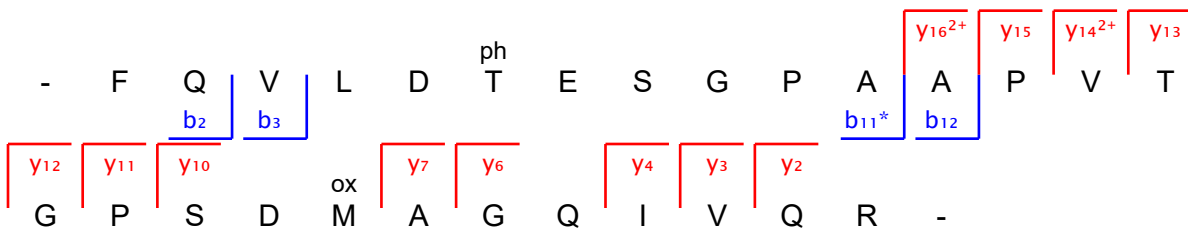
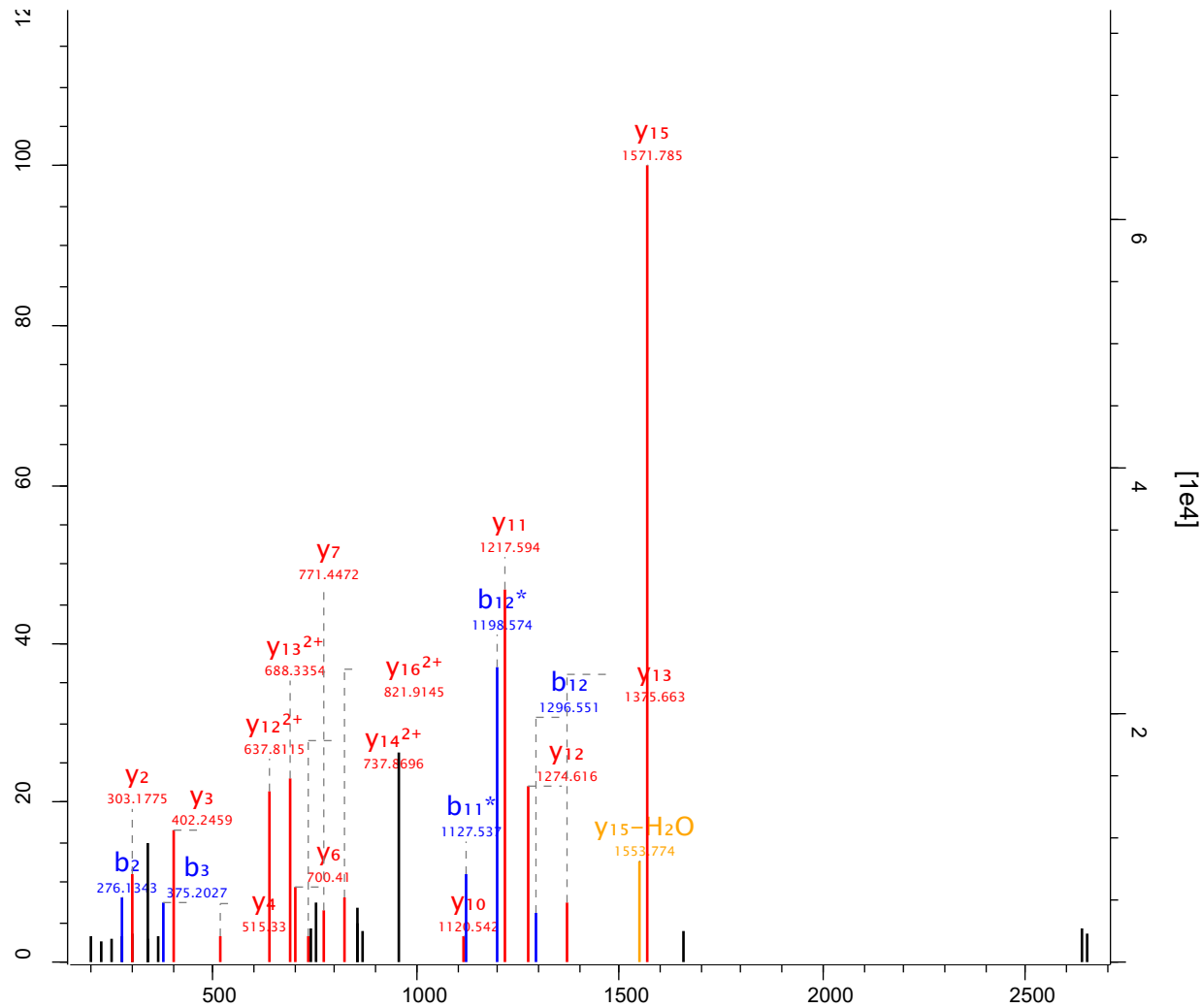
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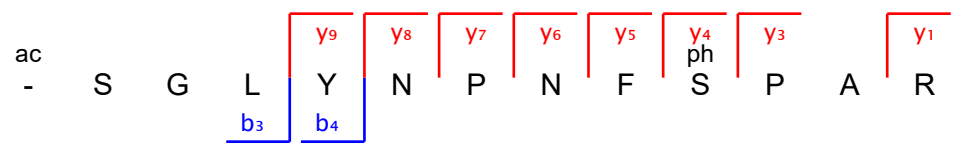
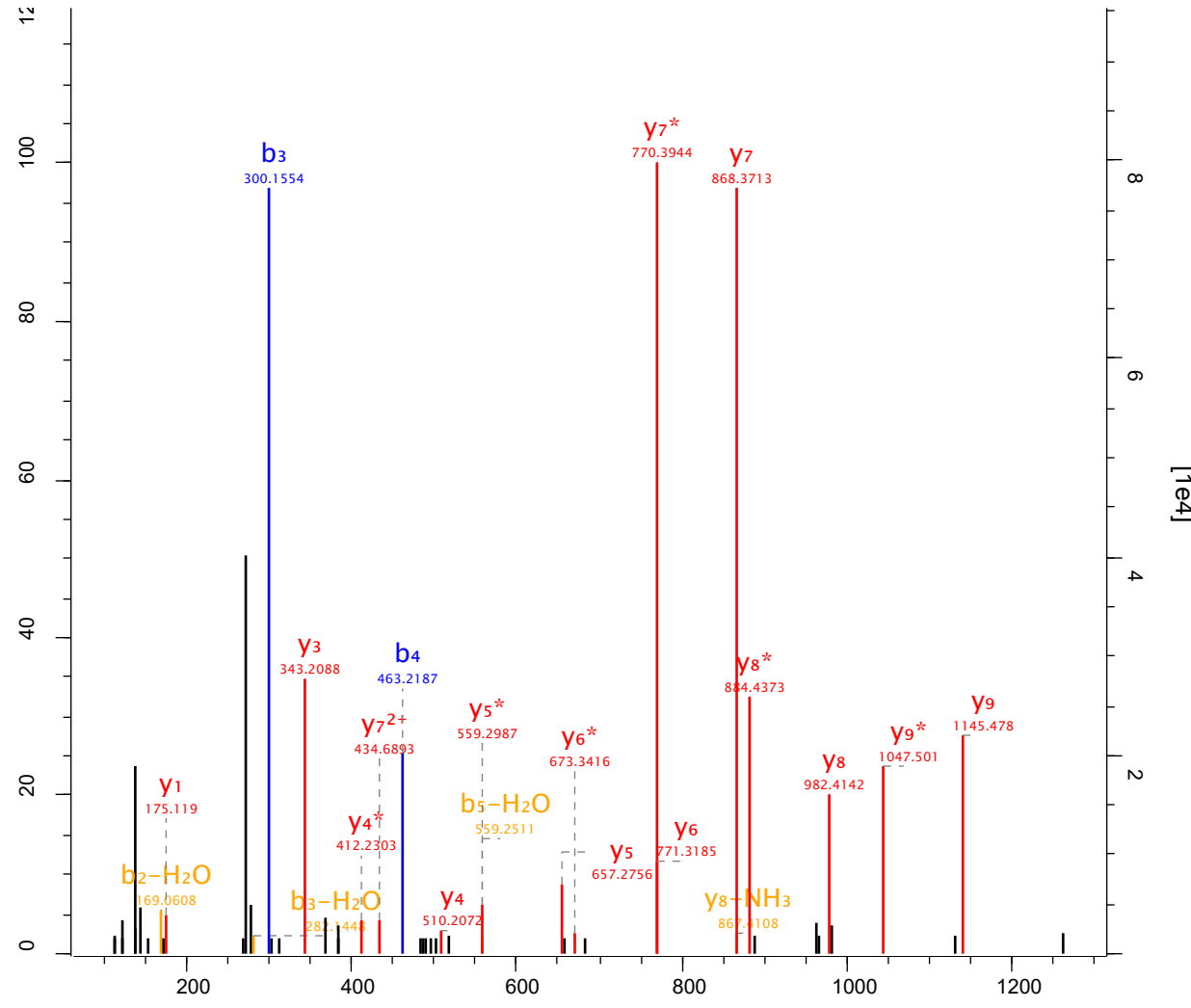
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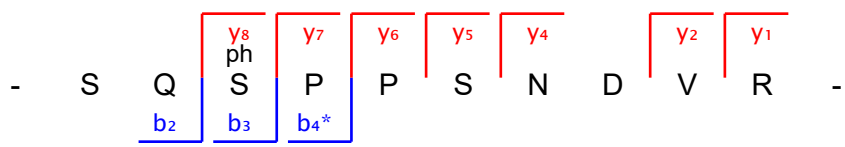
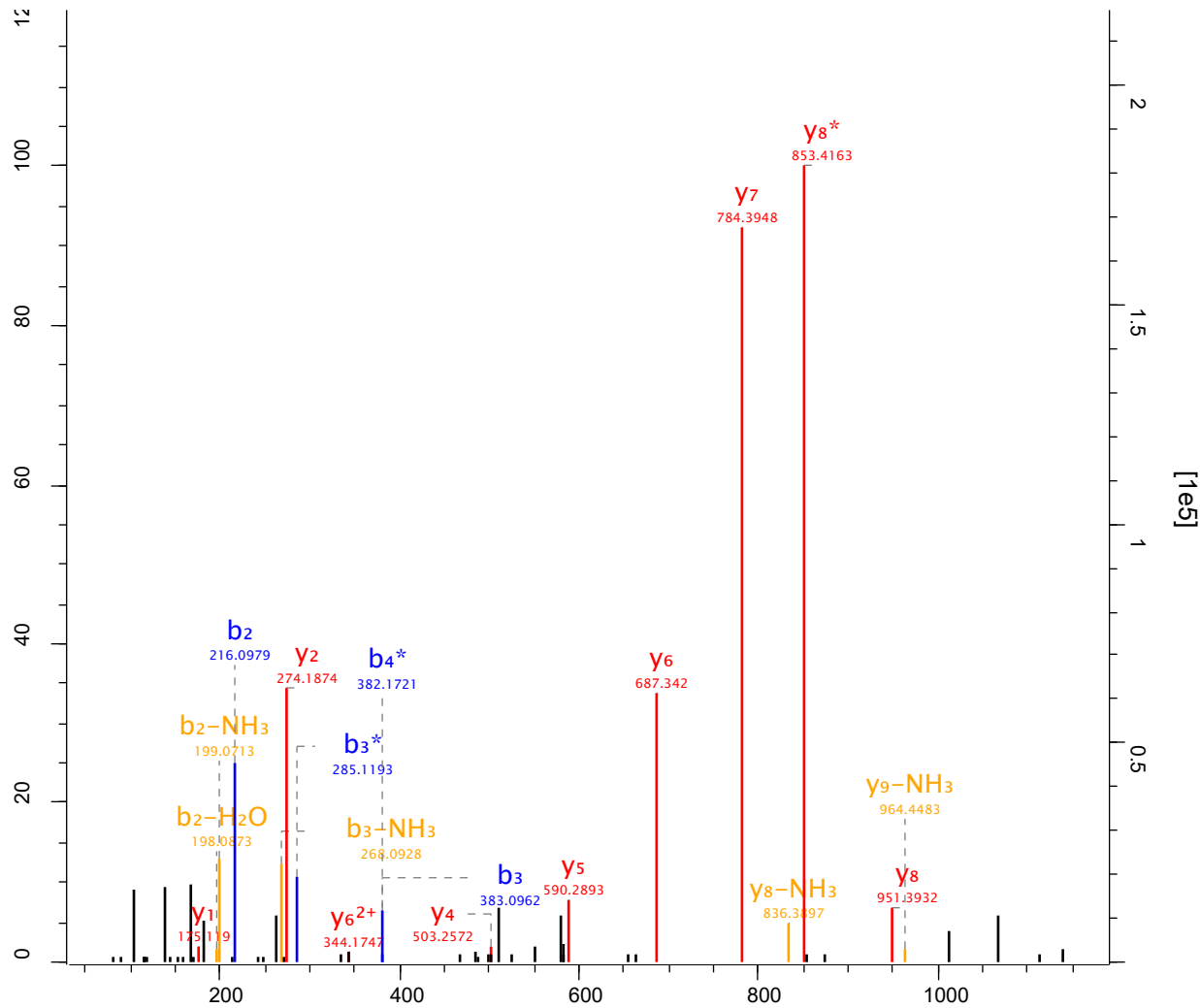
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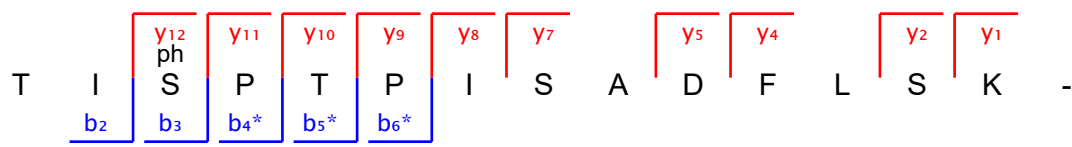
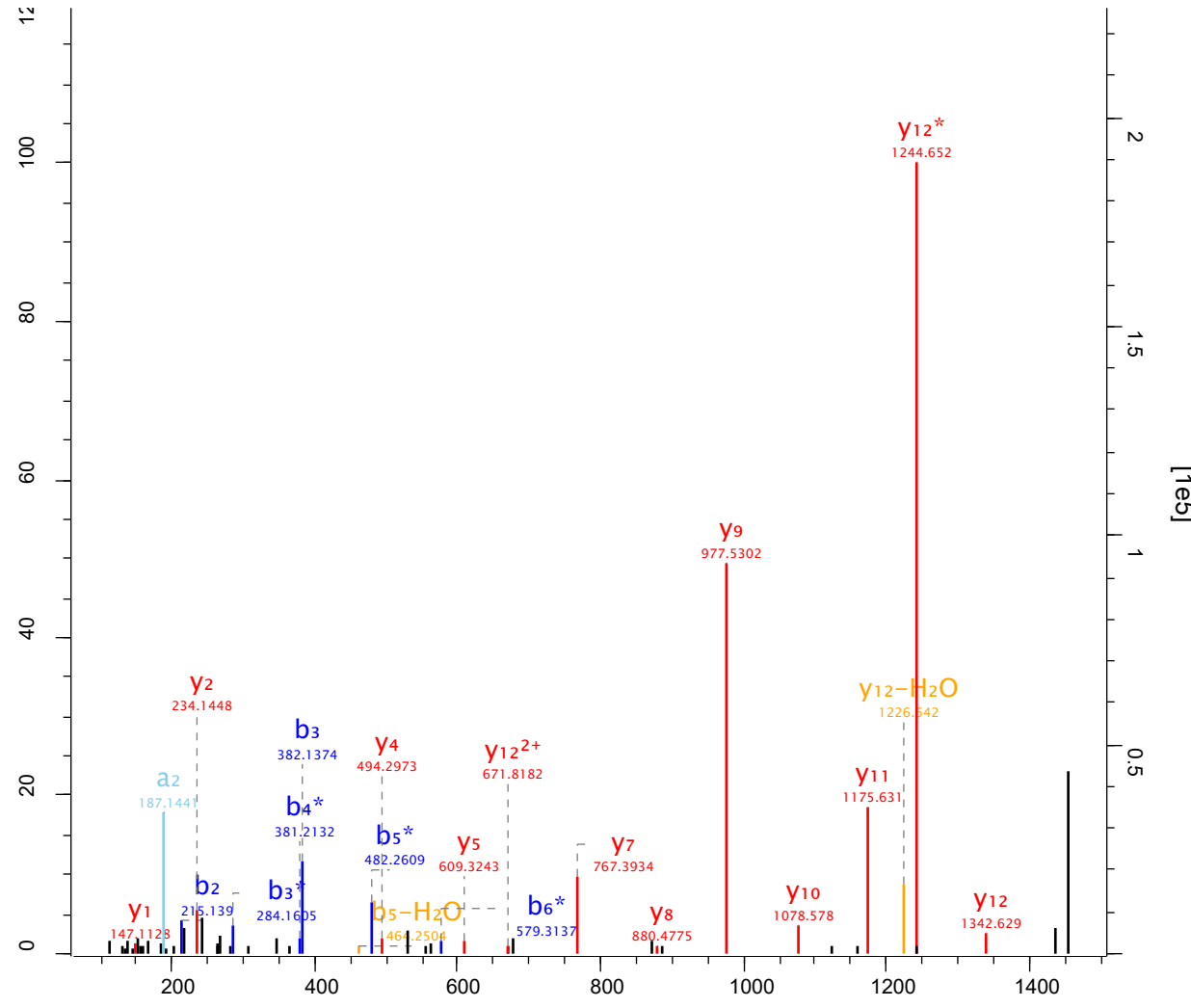
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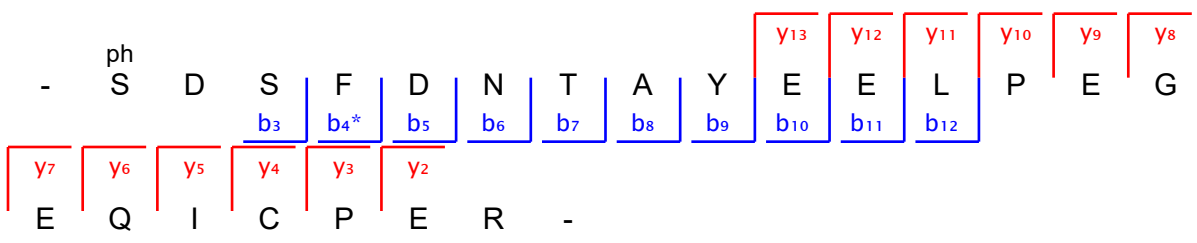
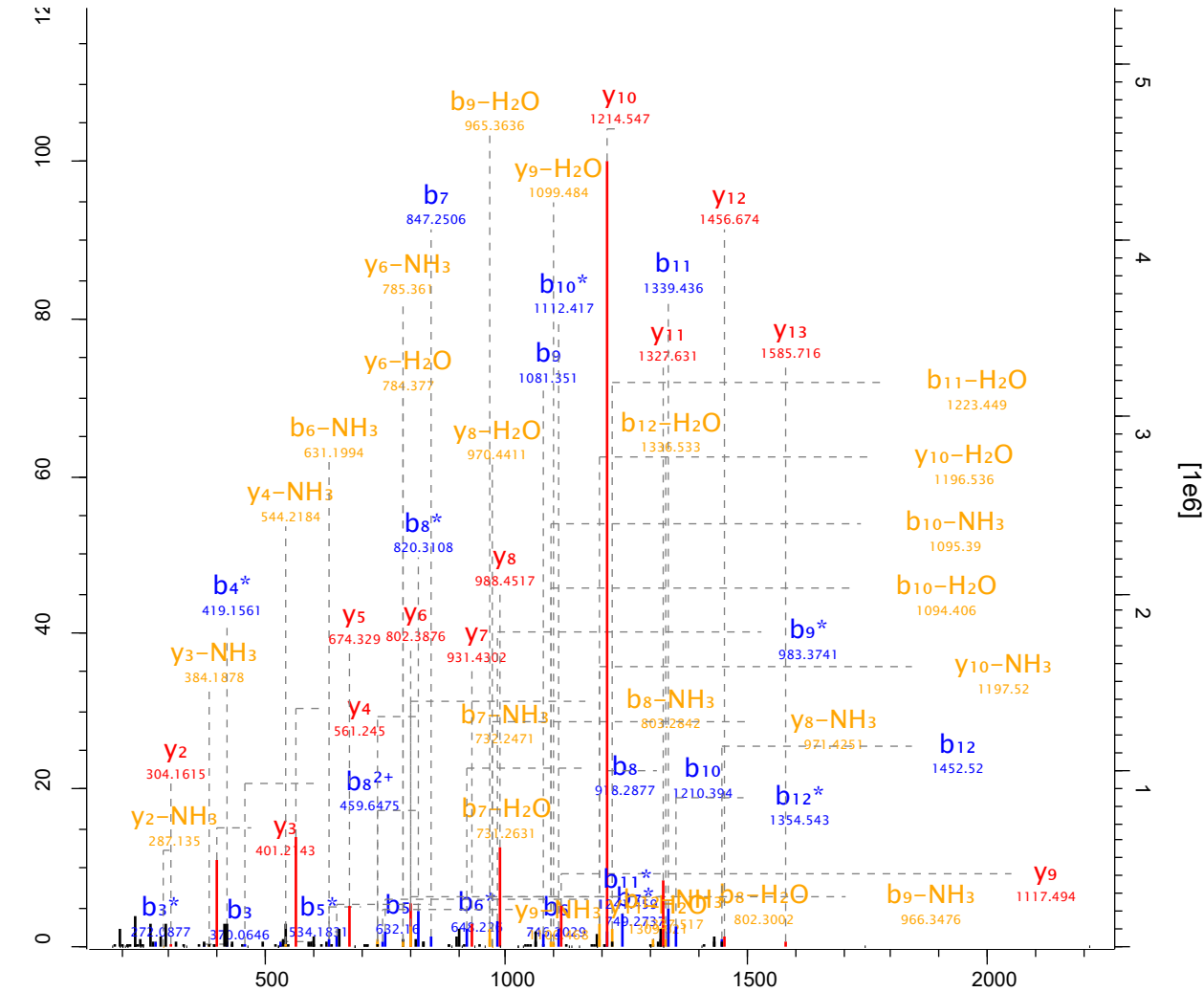
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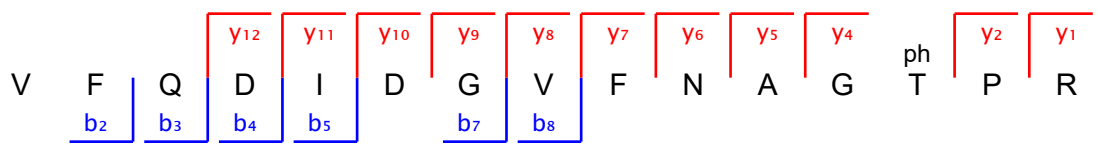
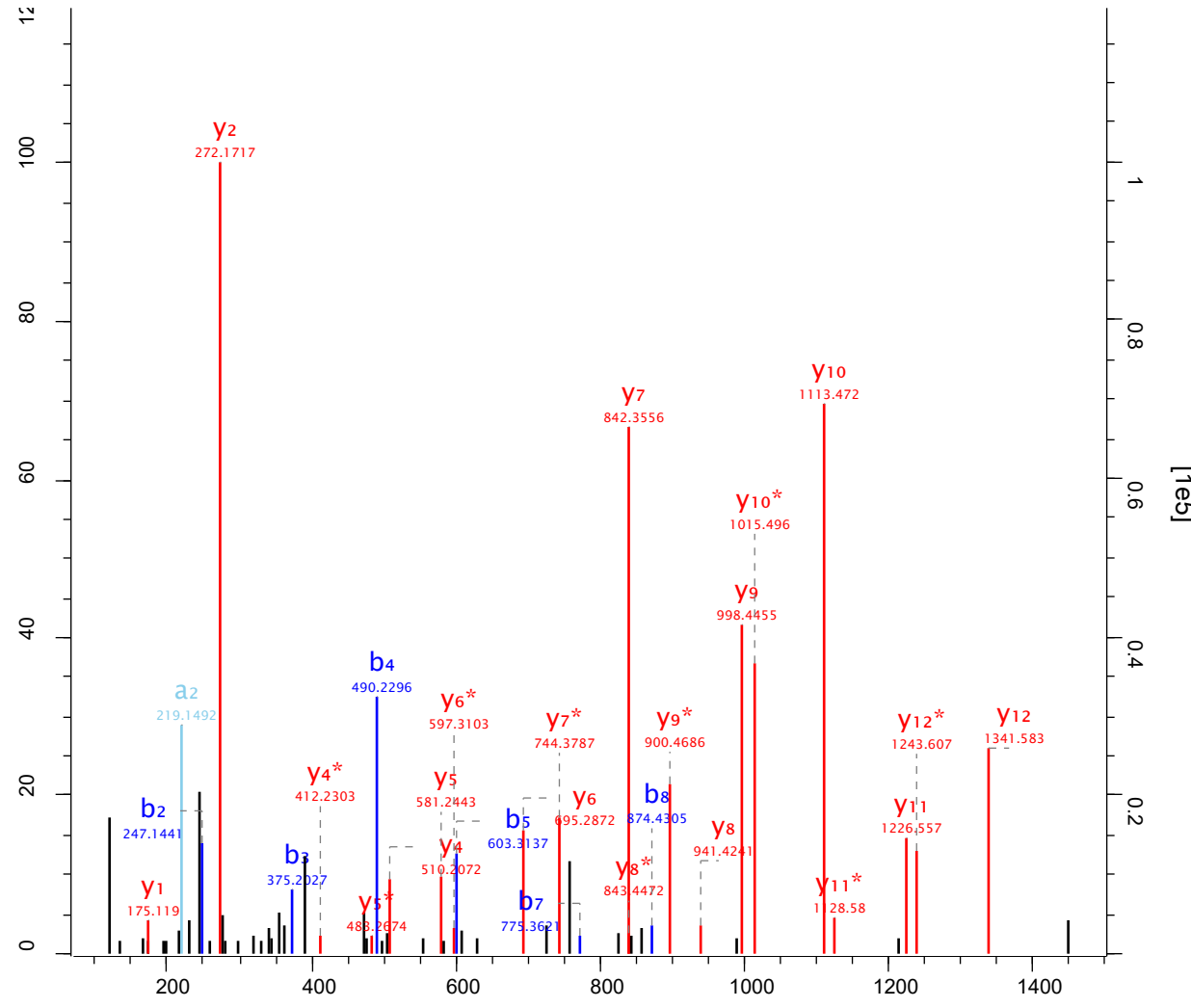
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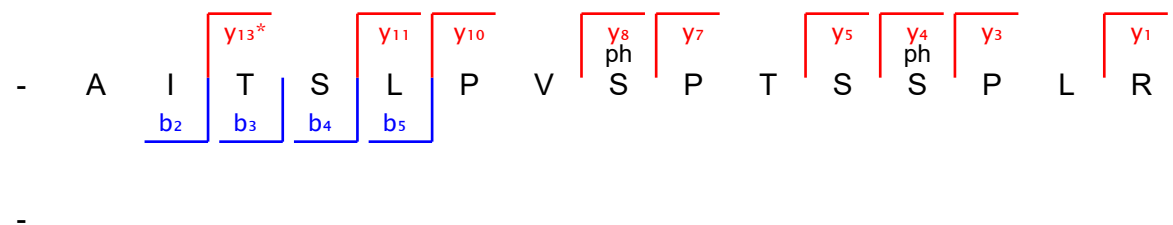
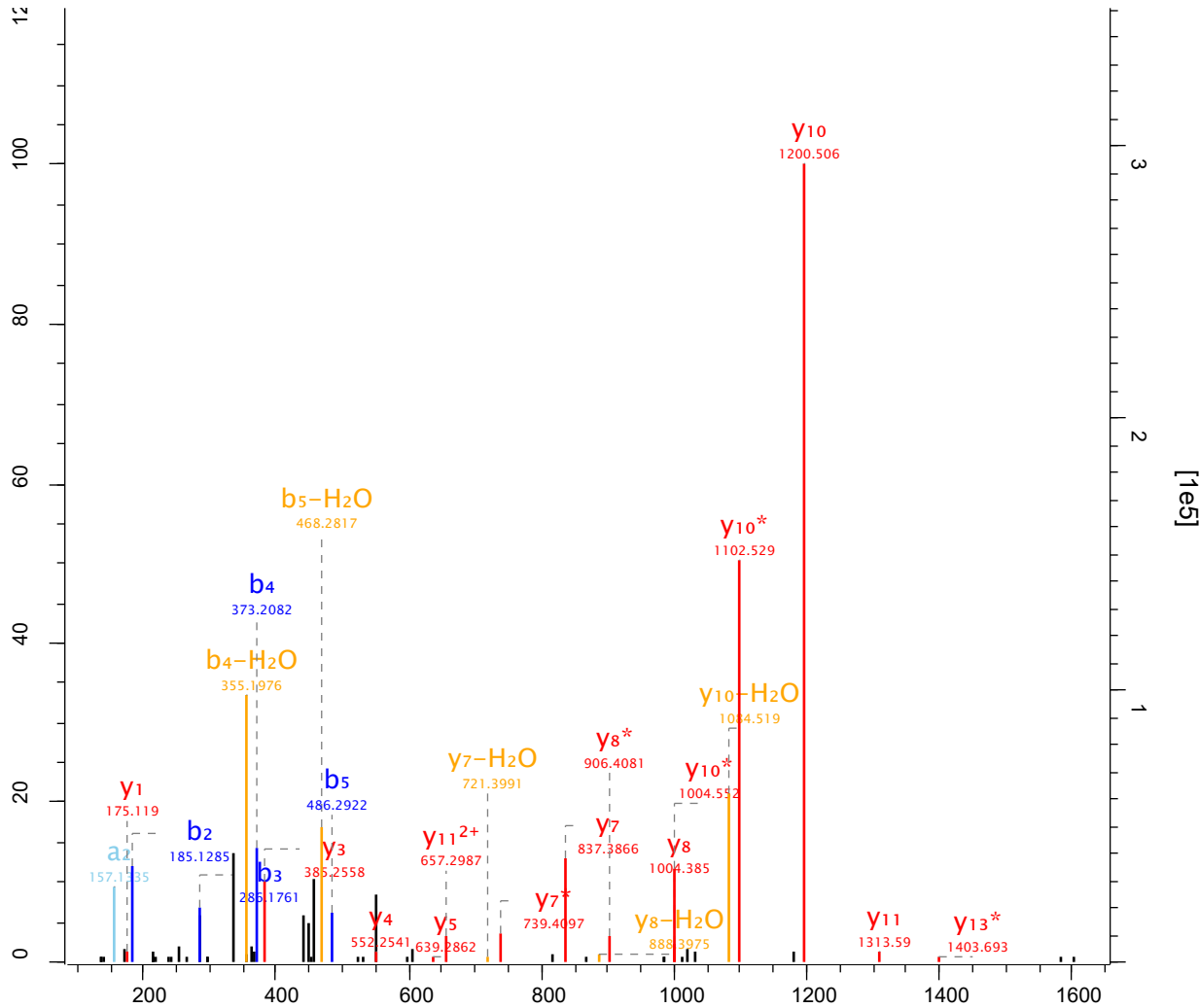
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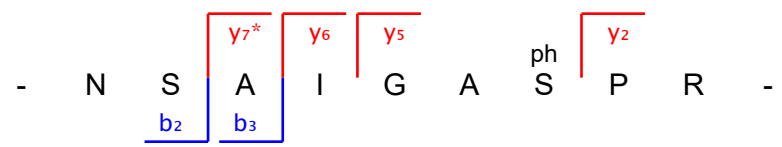
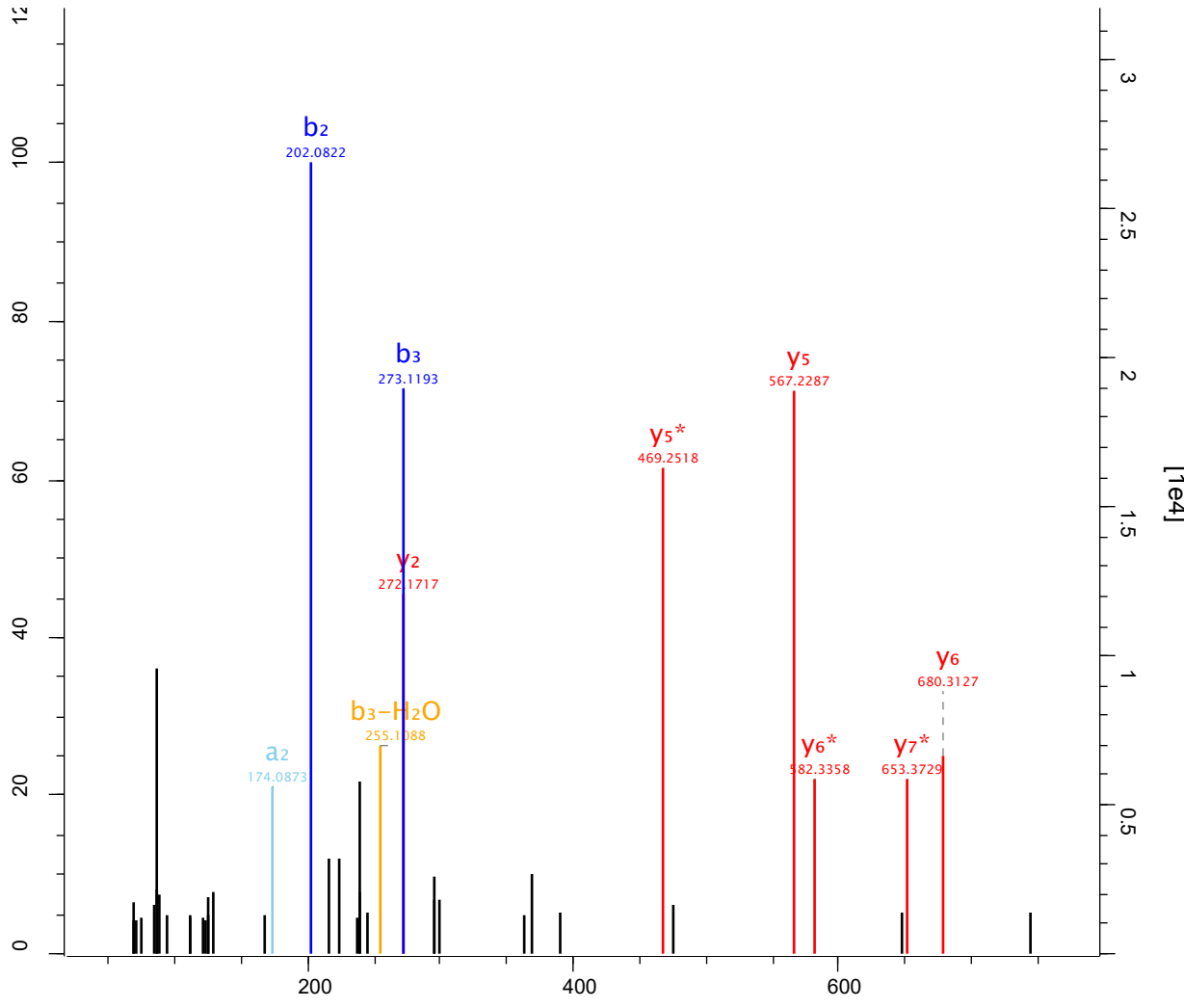
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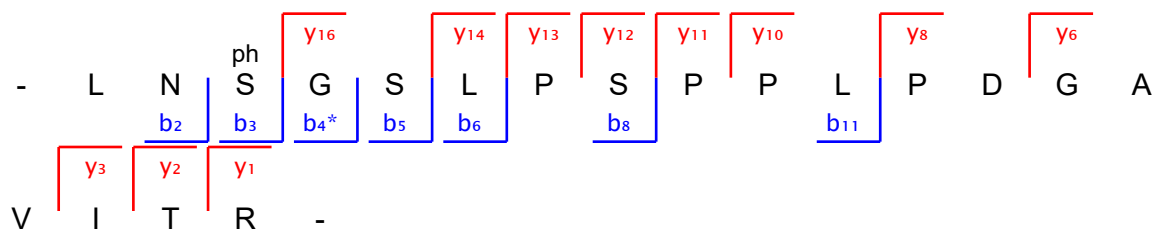
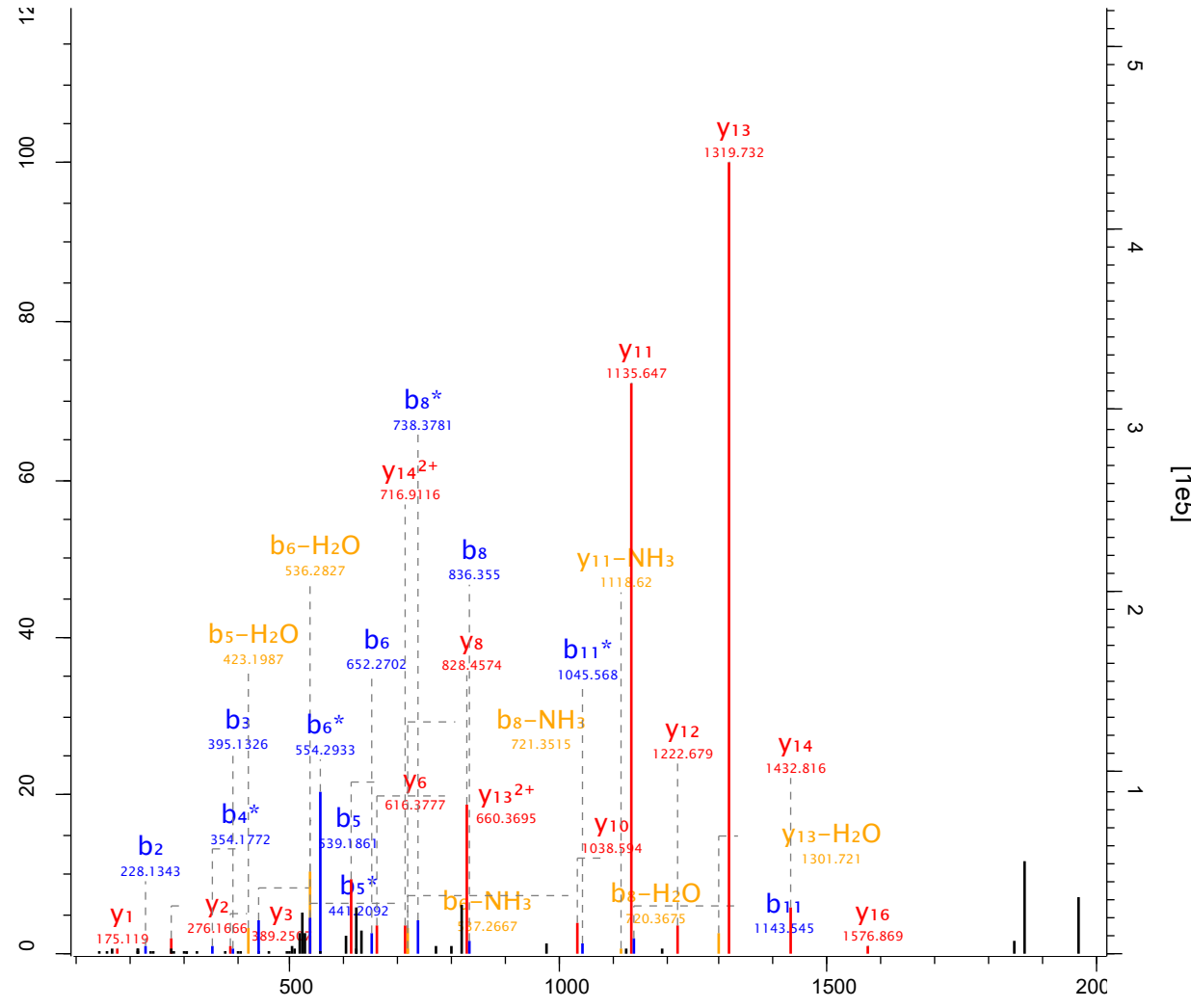
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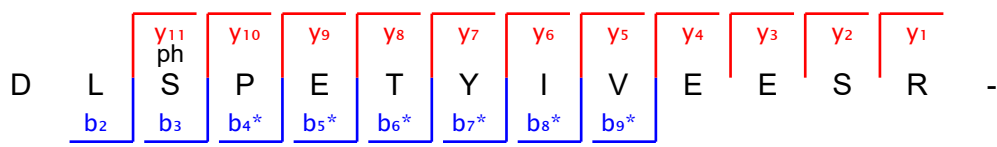
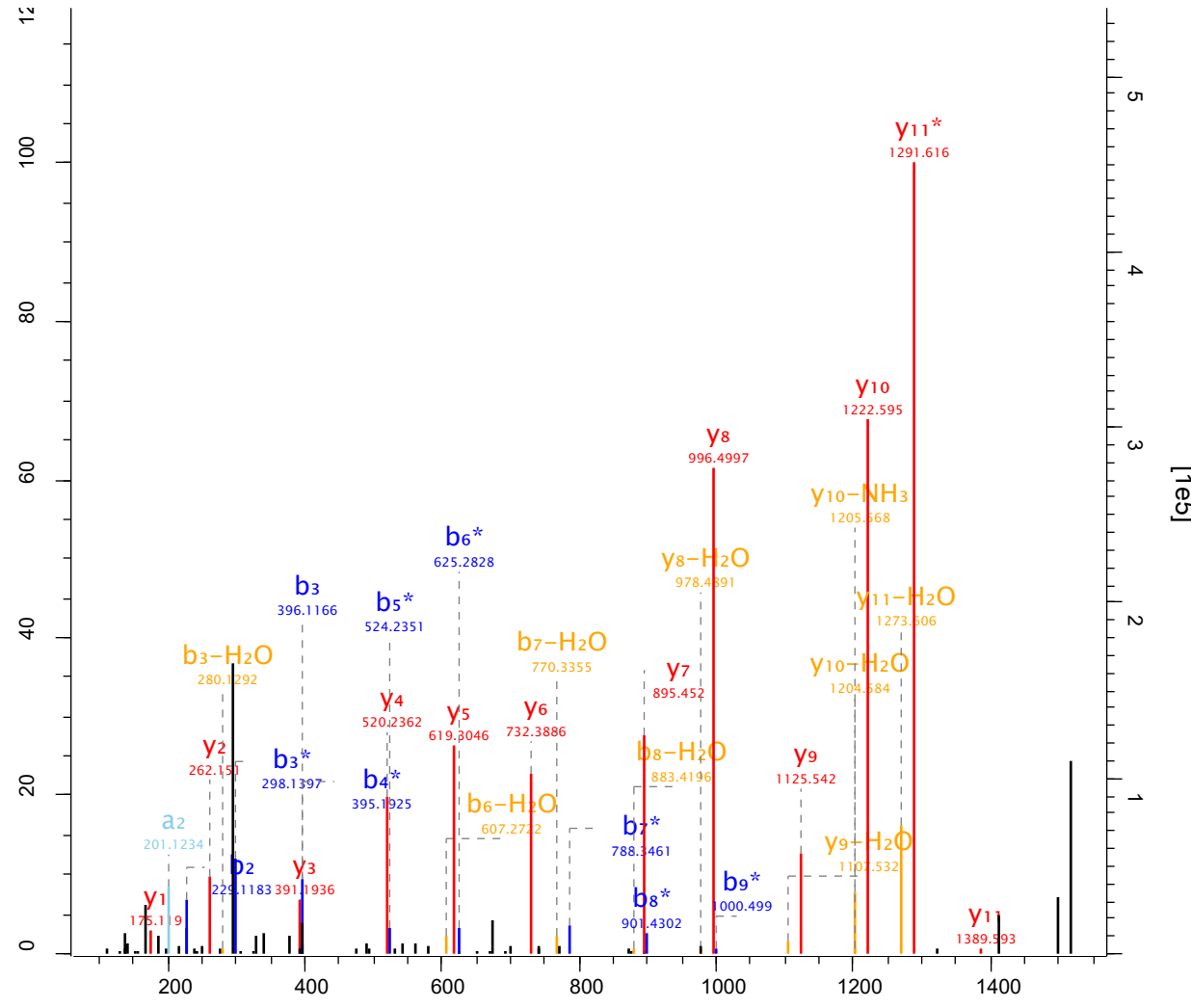
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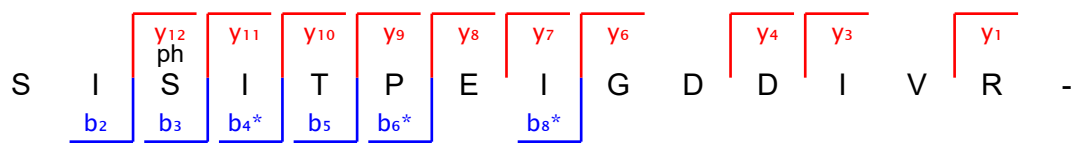
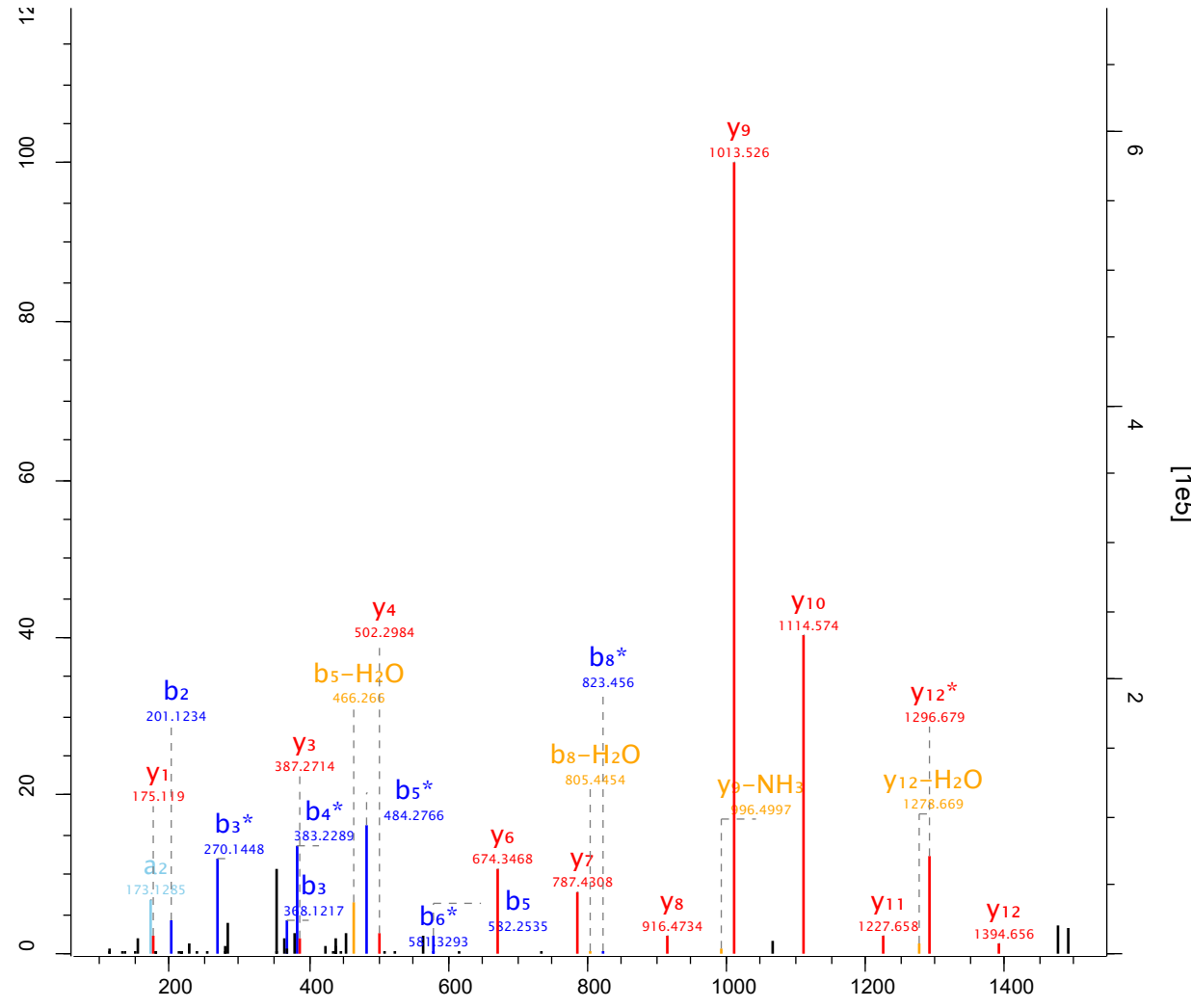
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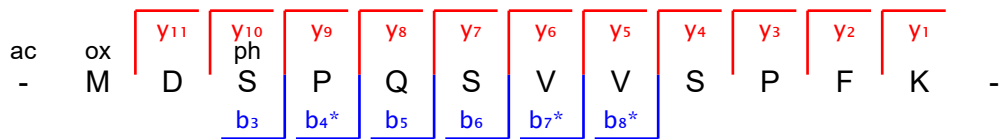
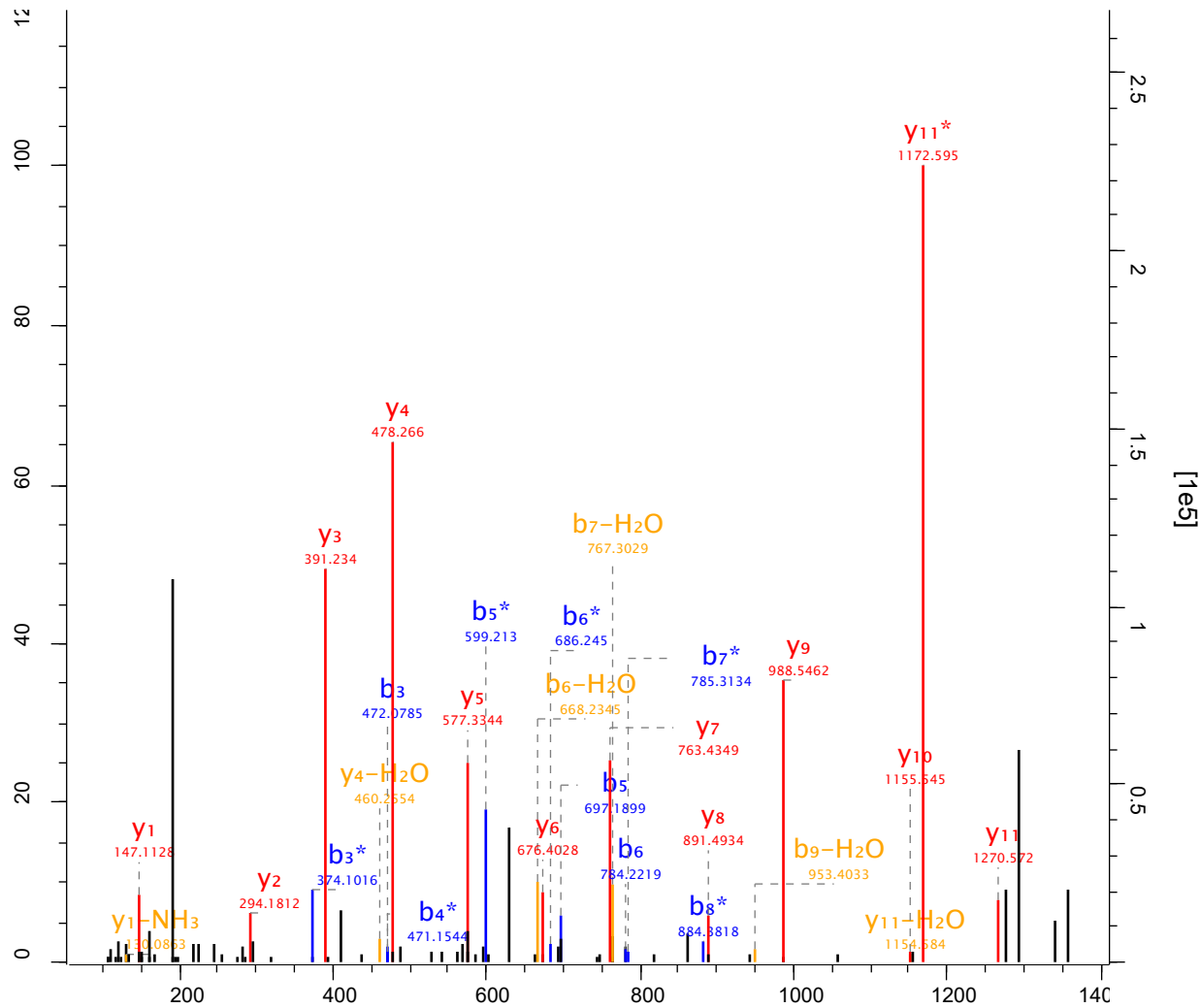
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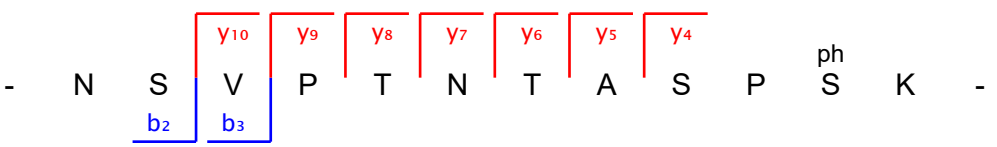
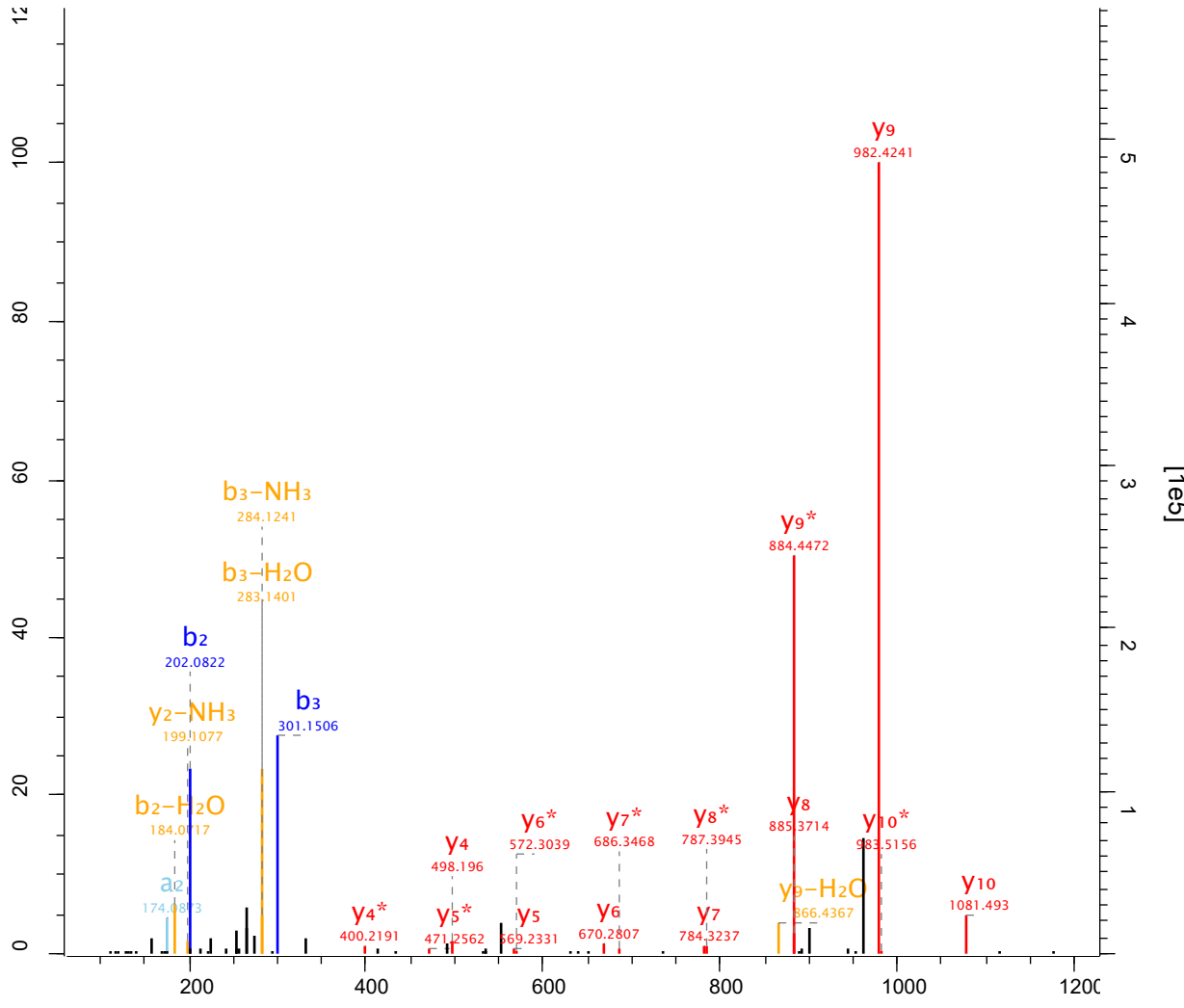
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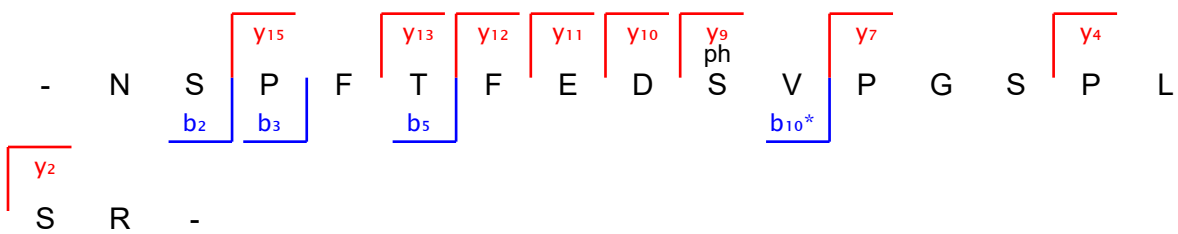
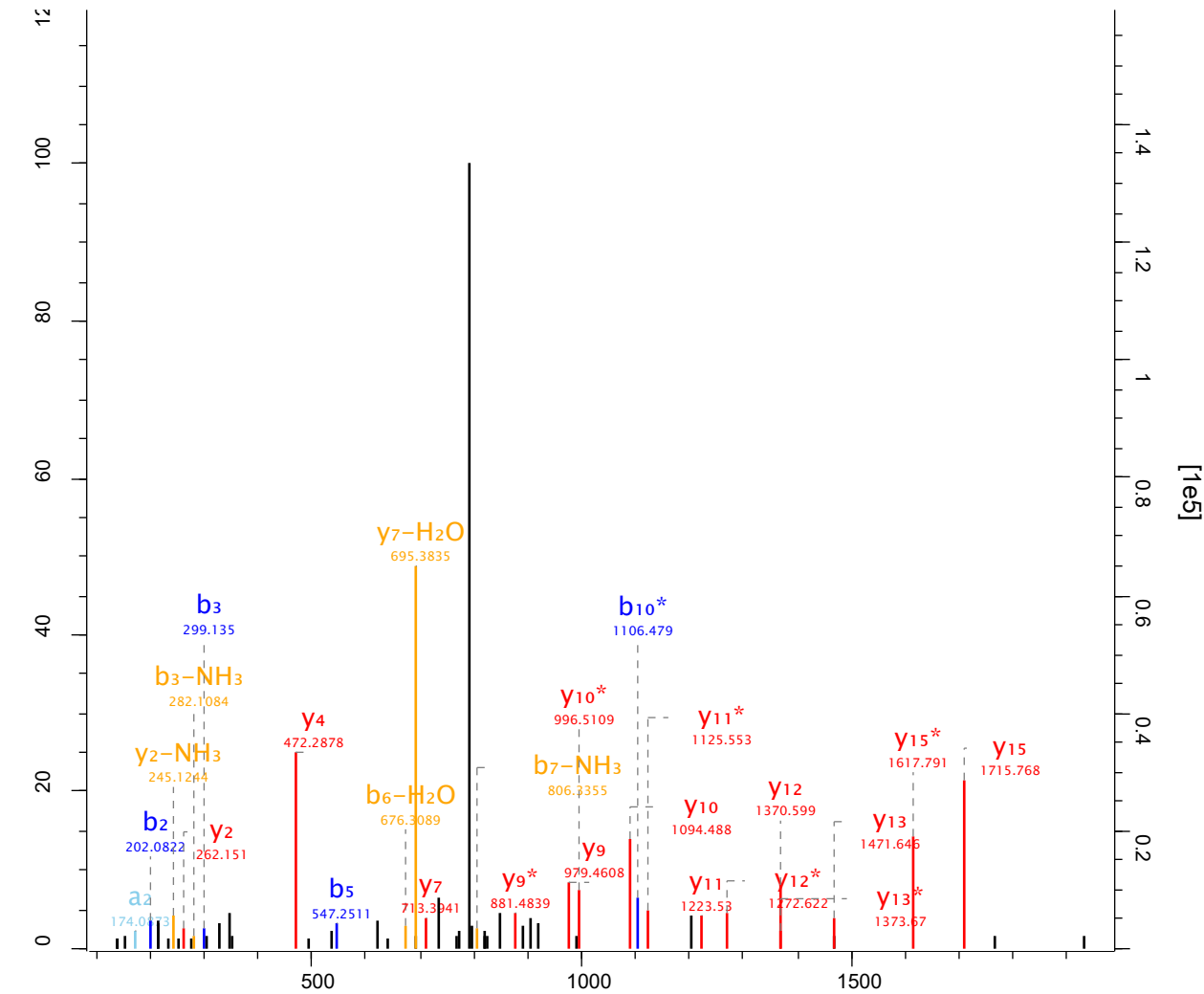
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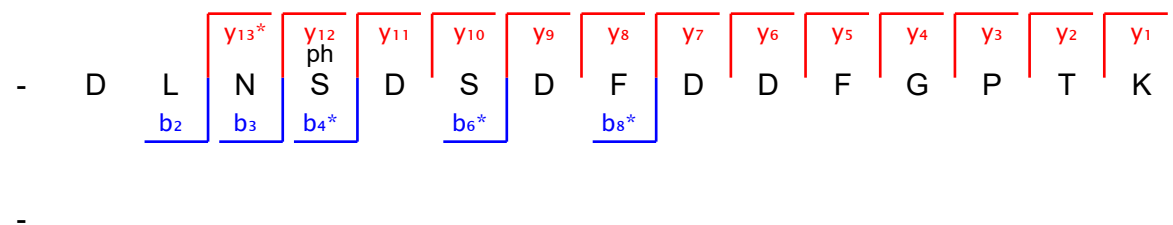
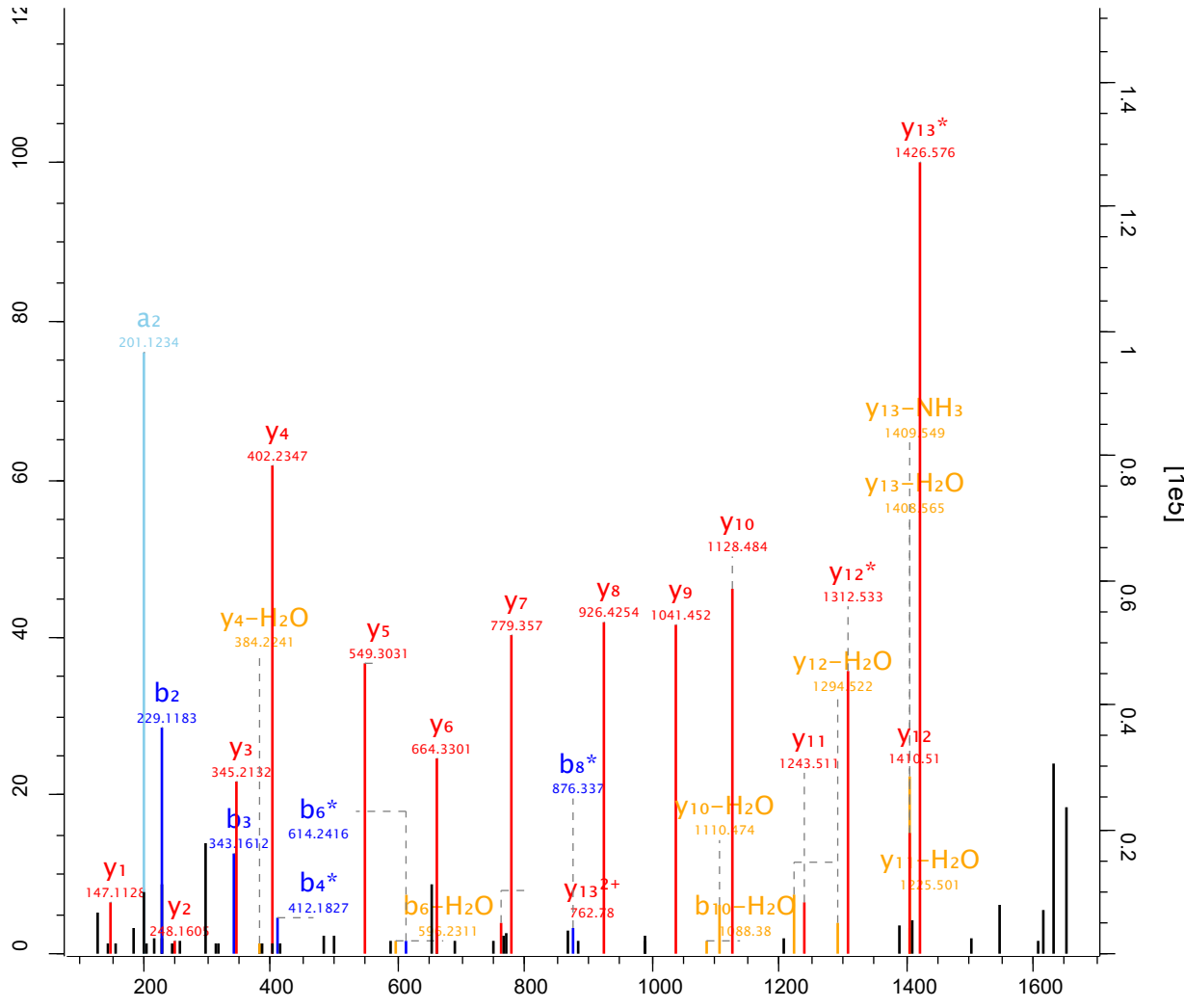
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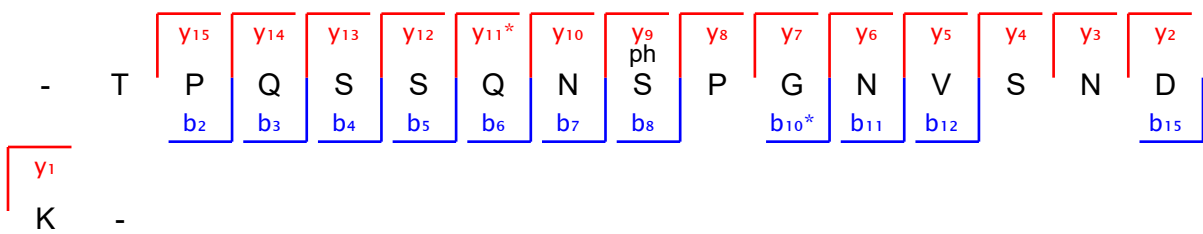
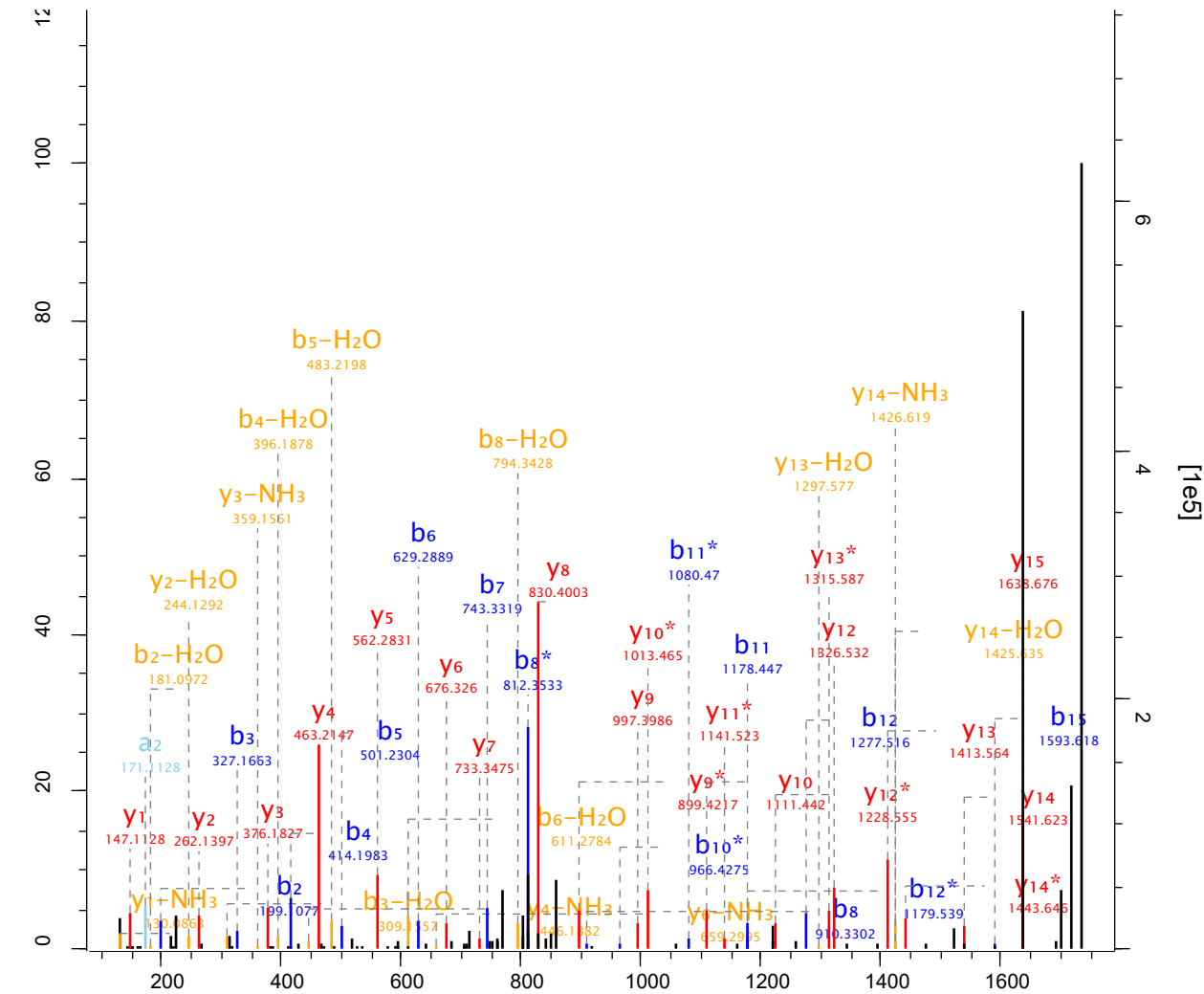
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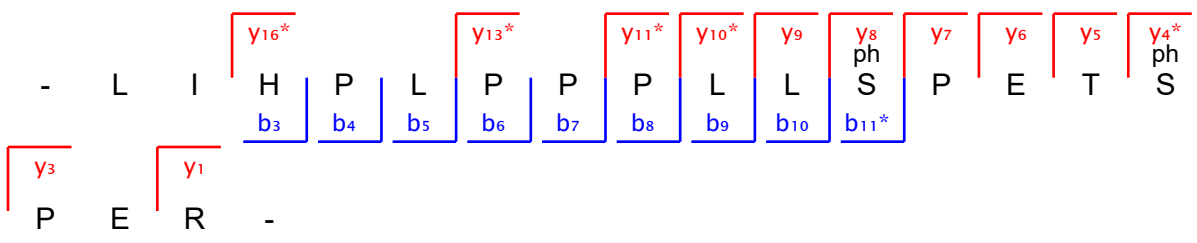
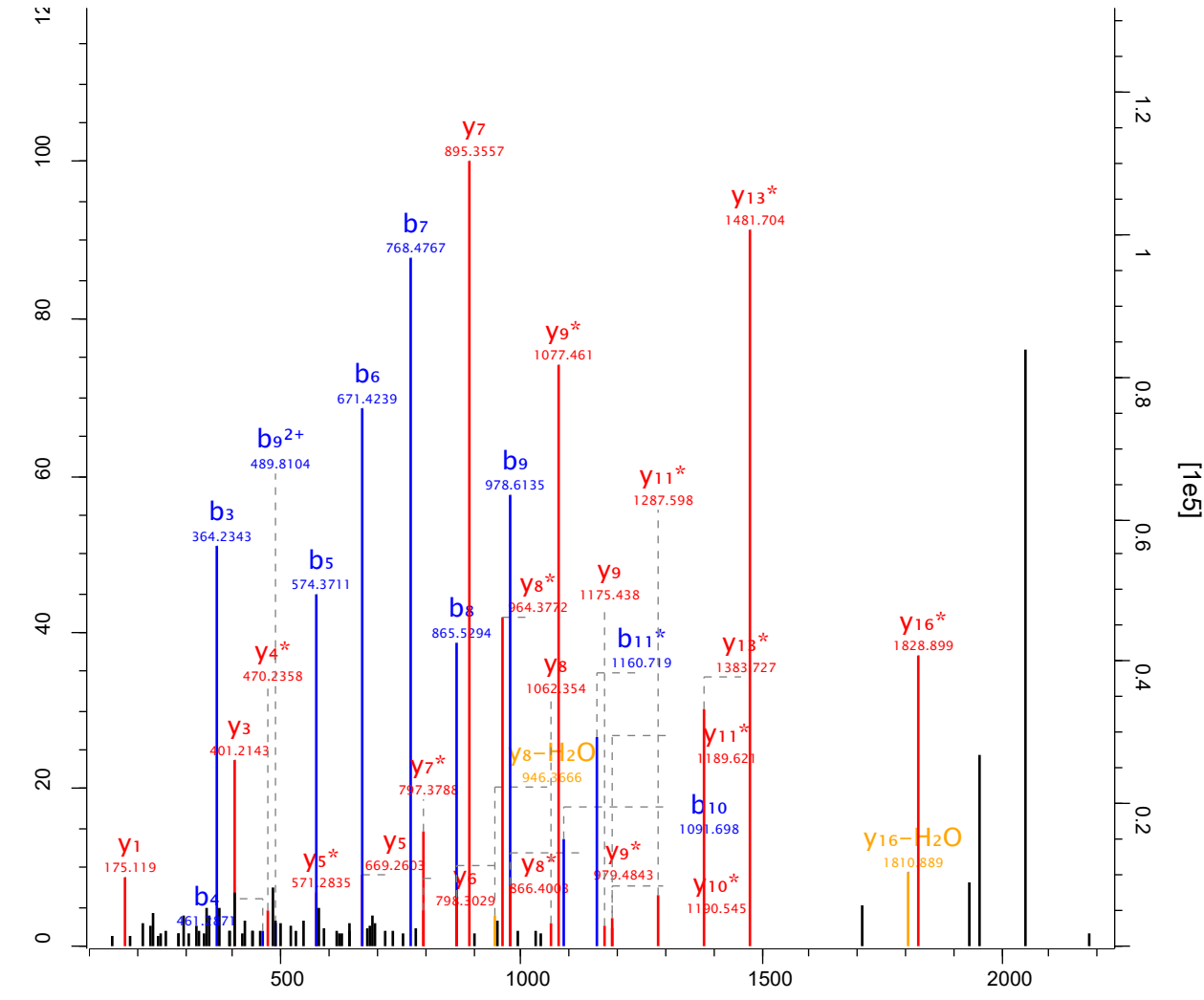
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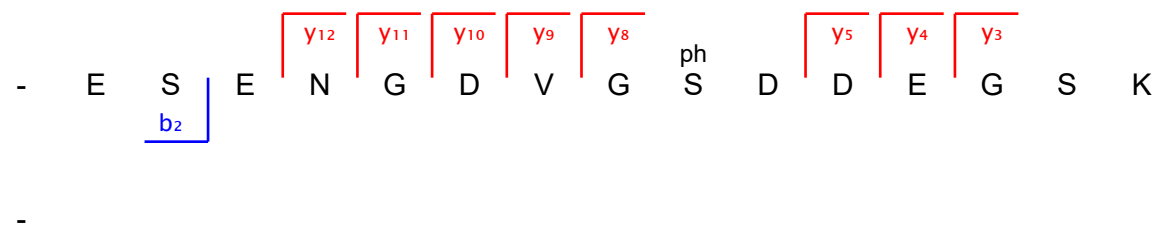
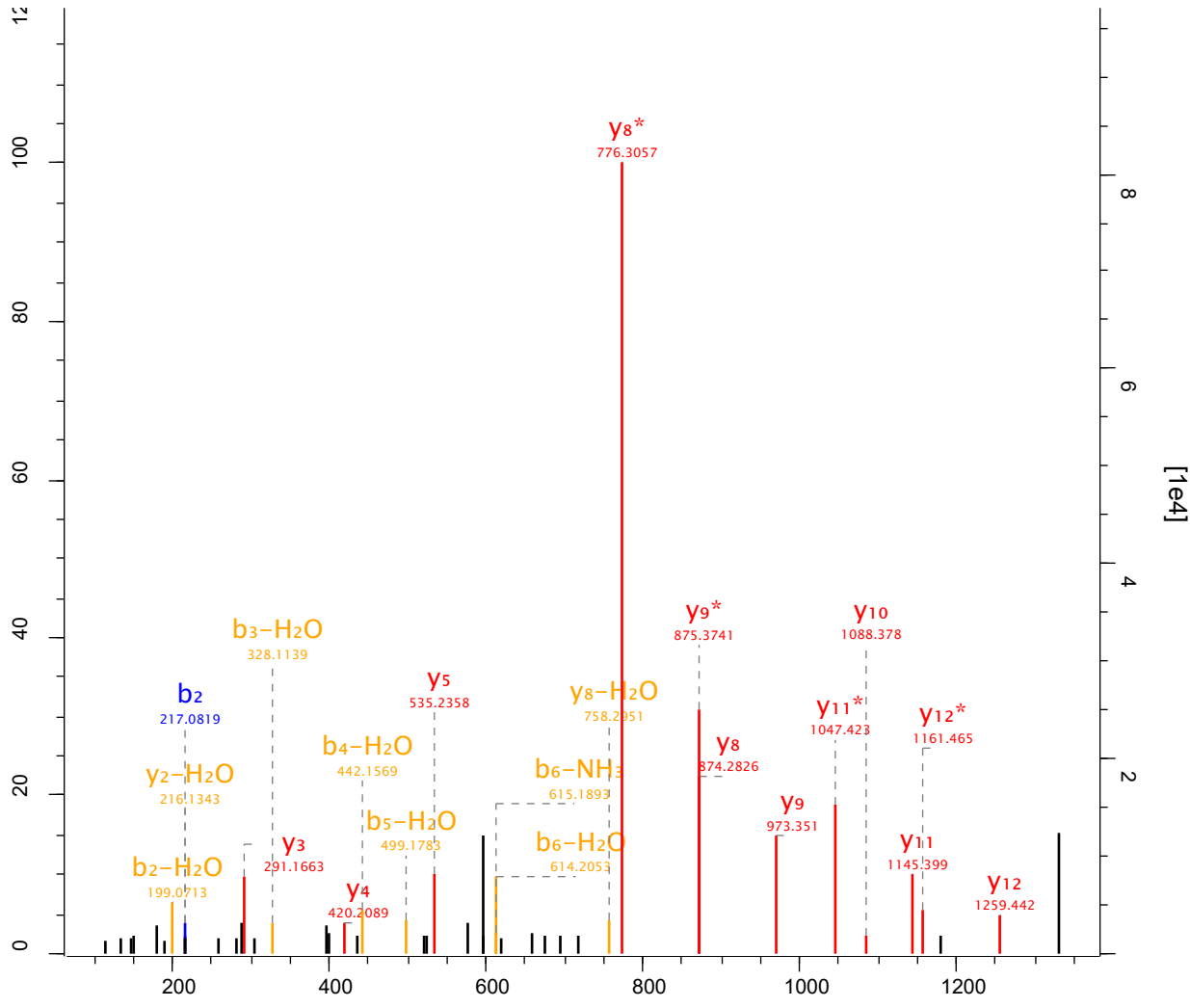
Raw file Scan Method Score m/z
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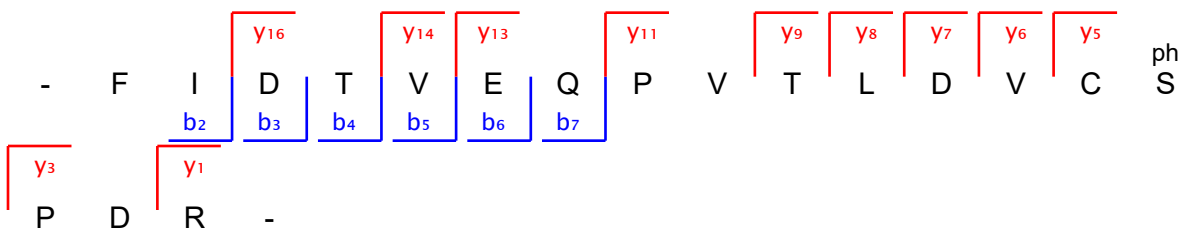
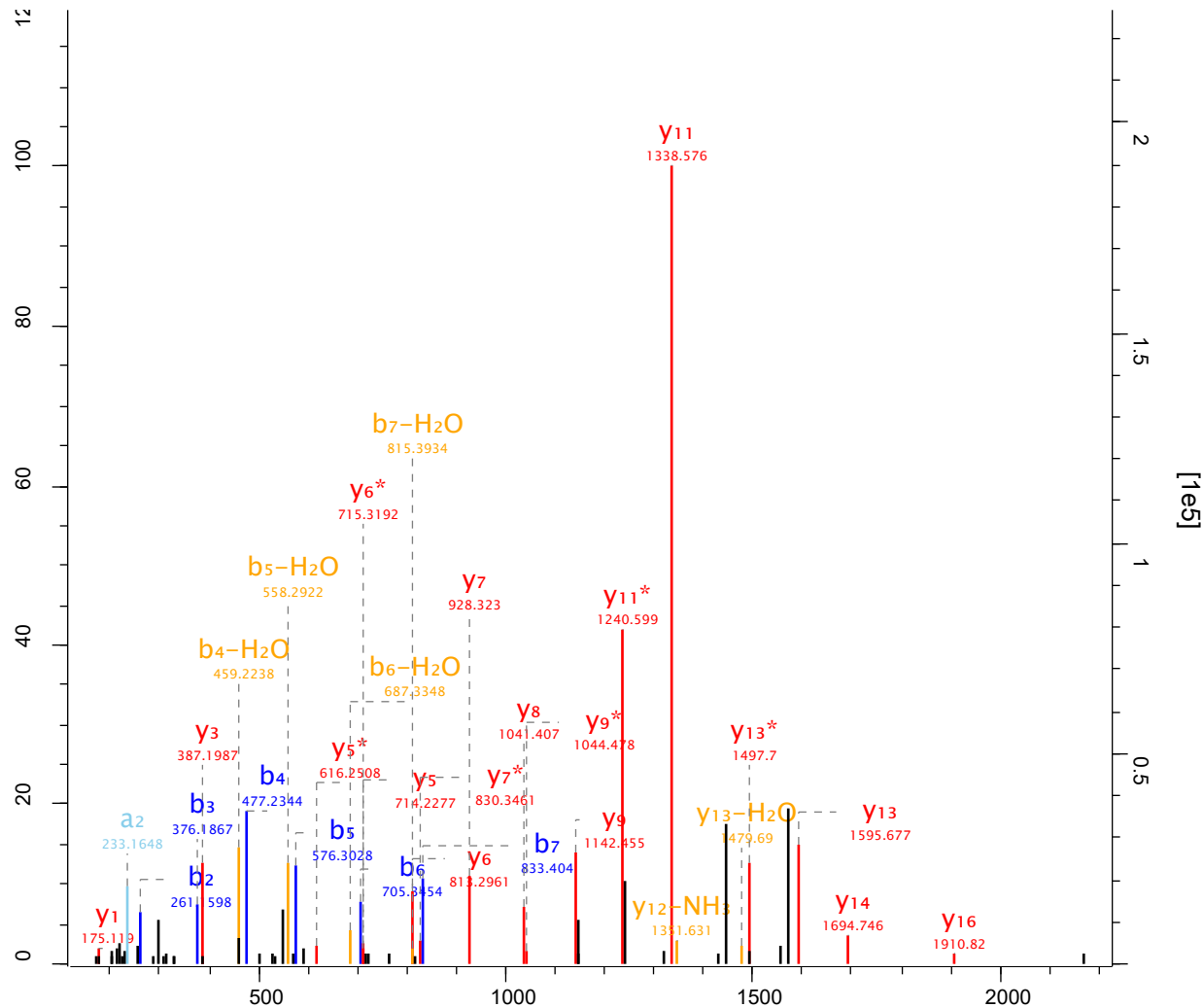
Raw file Scan Method Score m/z
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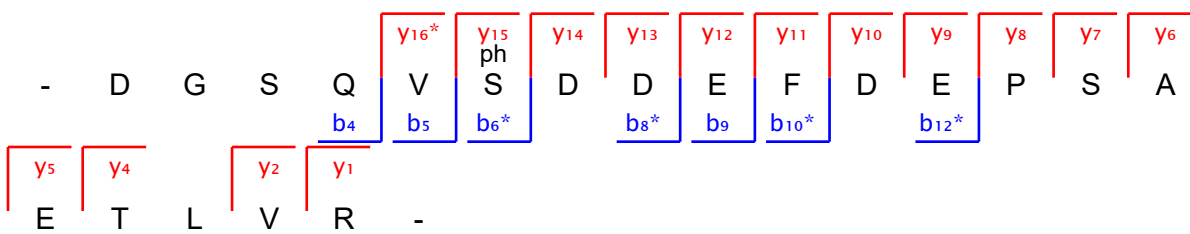
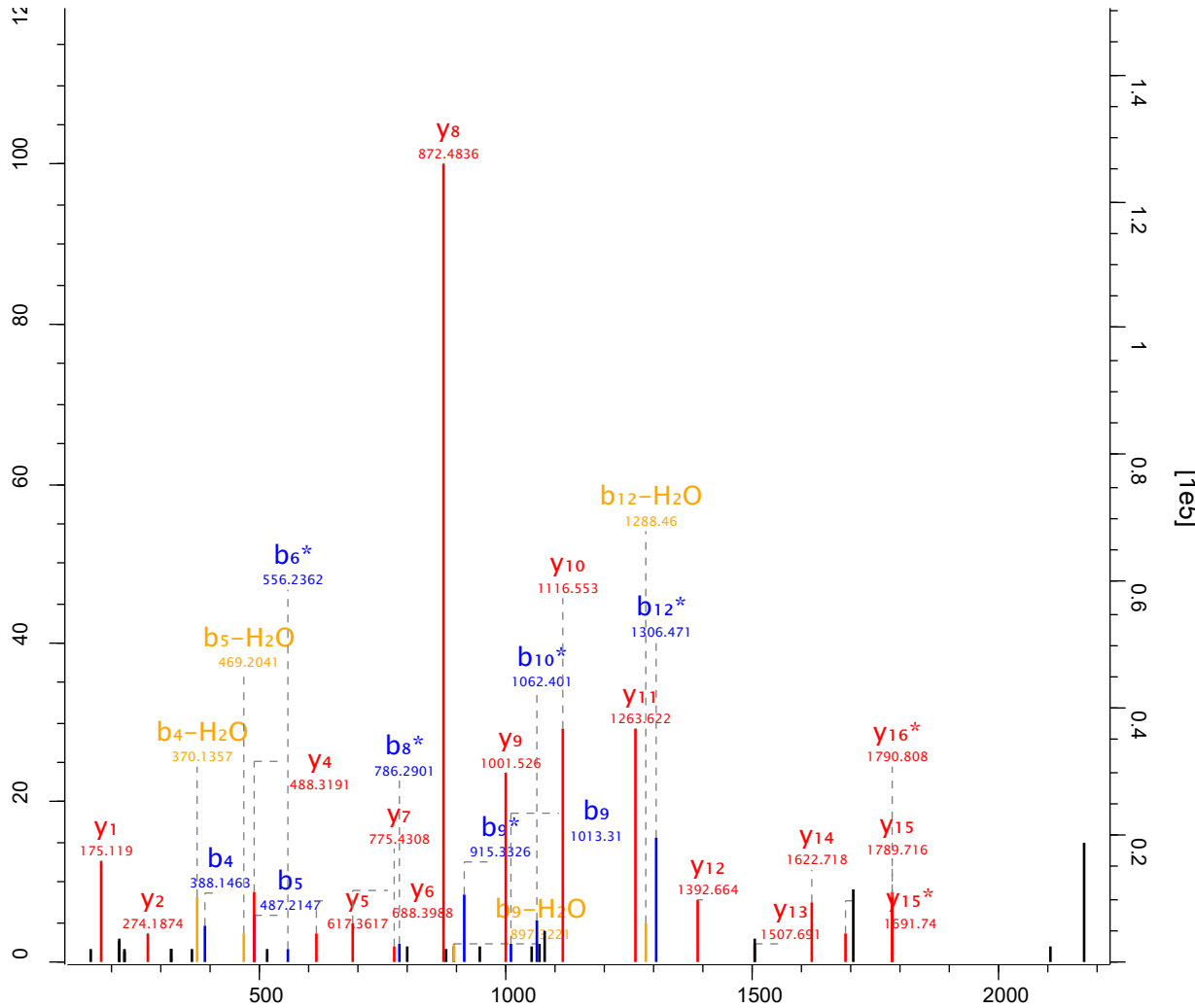
Raw file Scan Method Score m/z
 sys_15_1 3835 FTMS; HCD 58.69 802.78



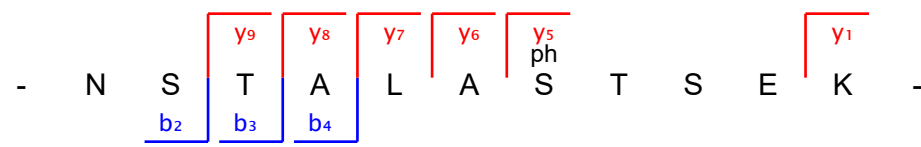
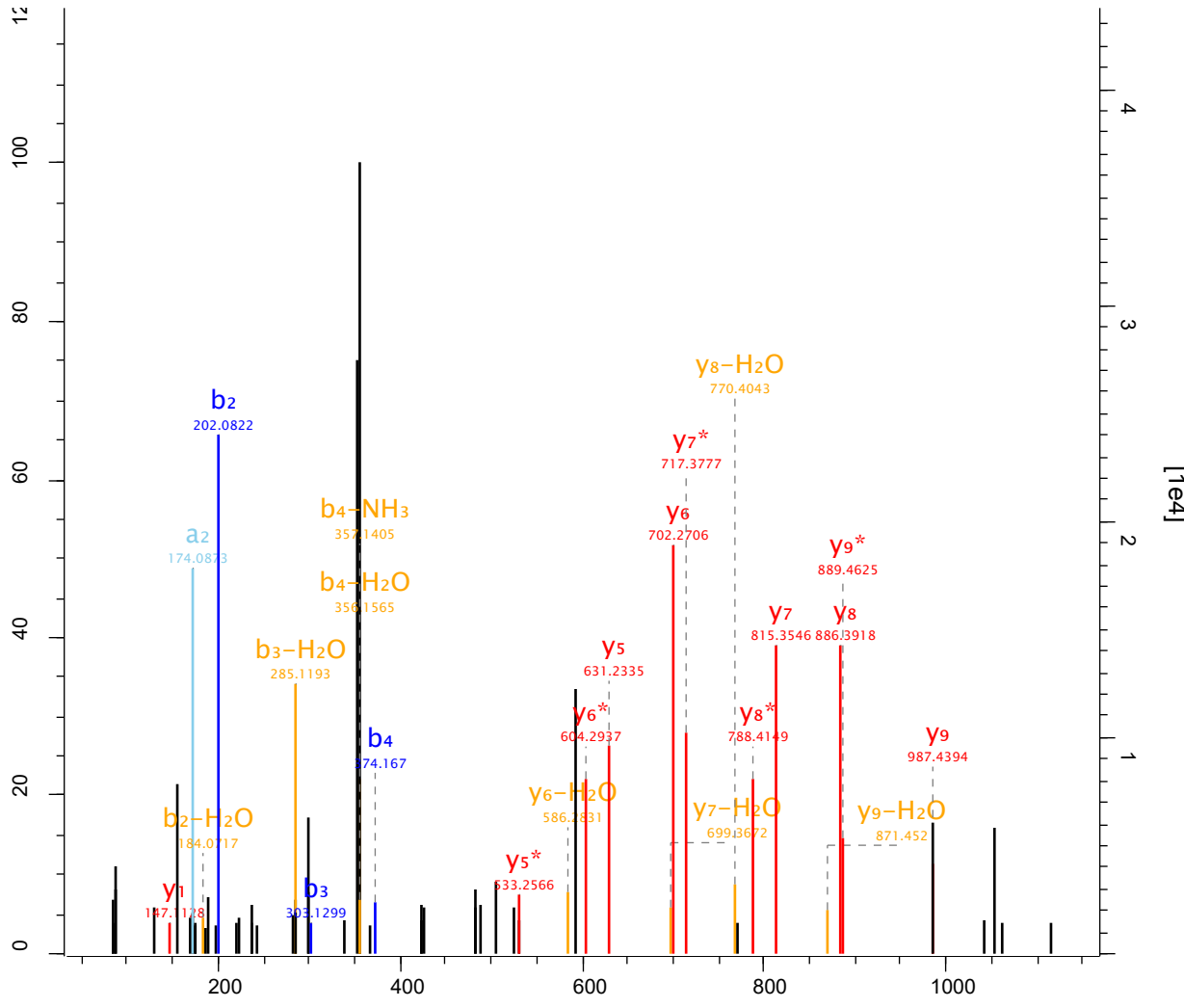
Raw file Scan Method Score m/z
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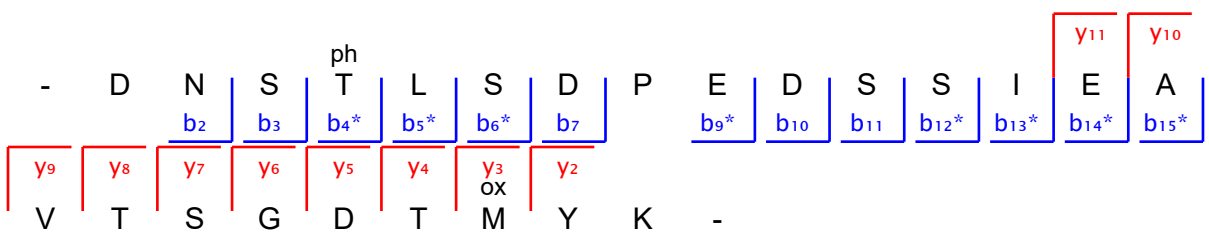
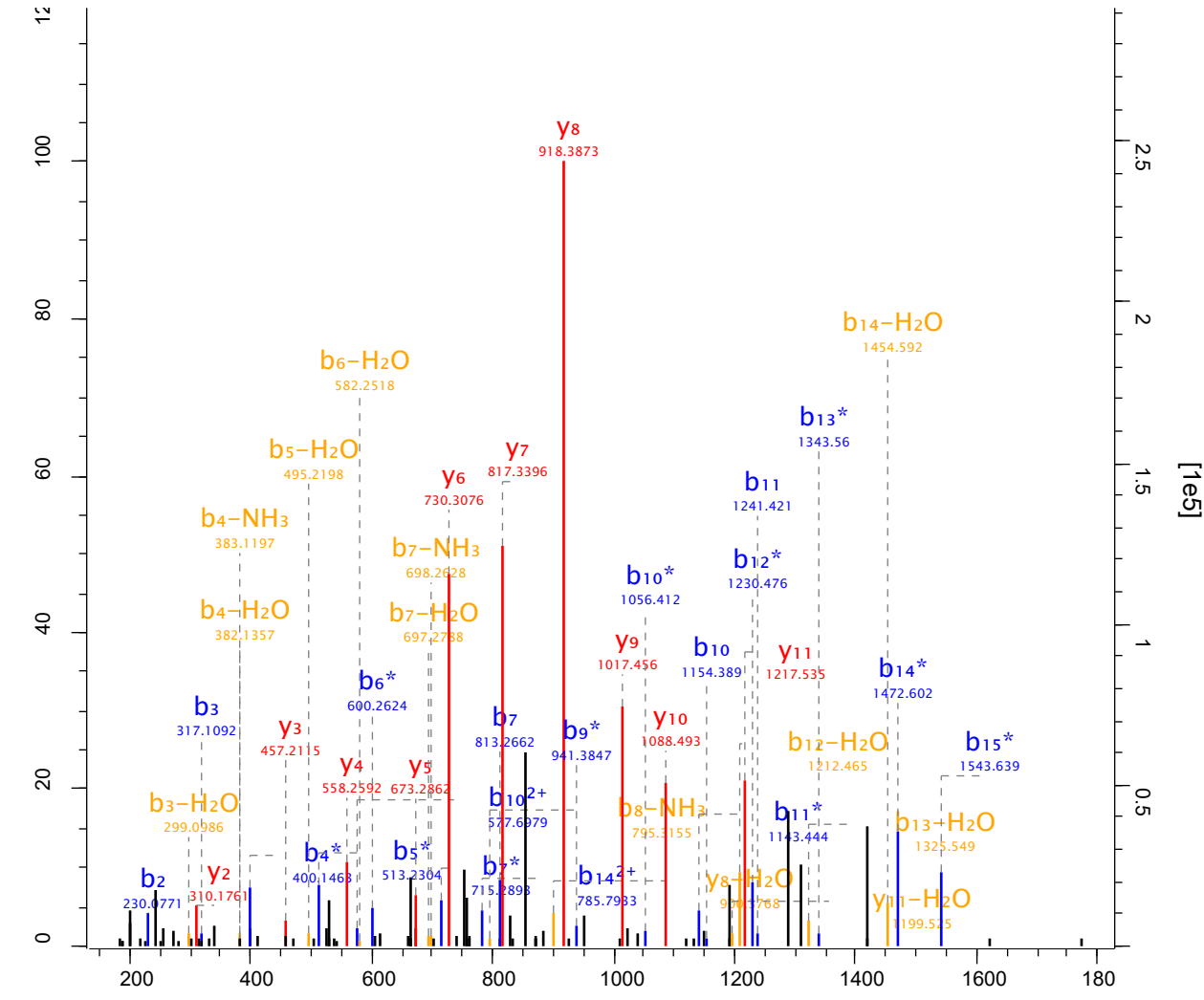
Raw file Scan Method Score m/z
 sys_15_1 38484 FTMS; HCD 124.51 1138.46



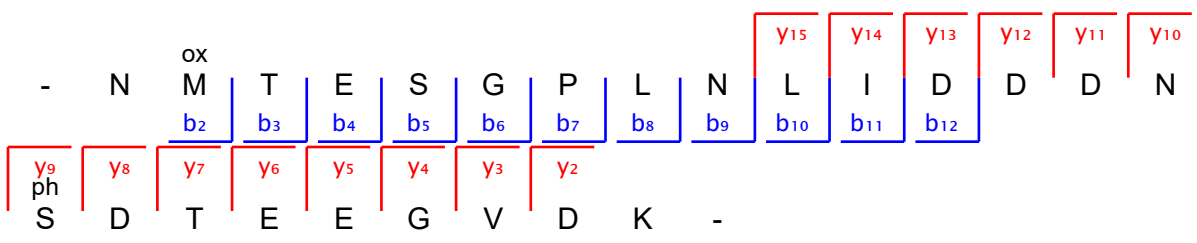
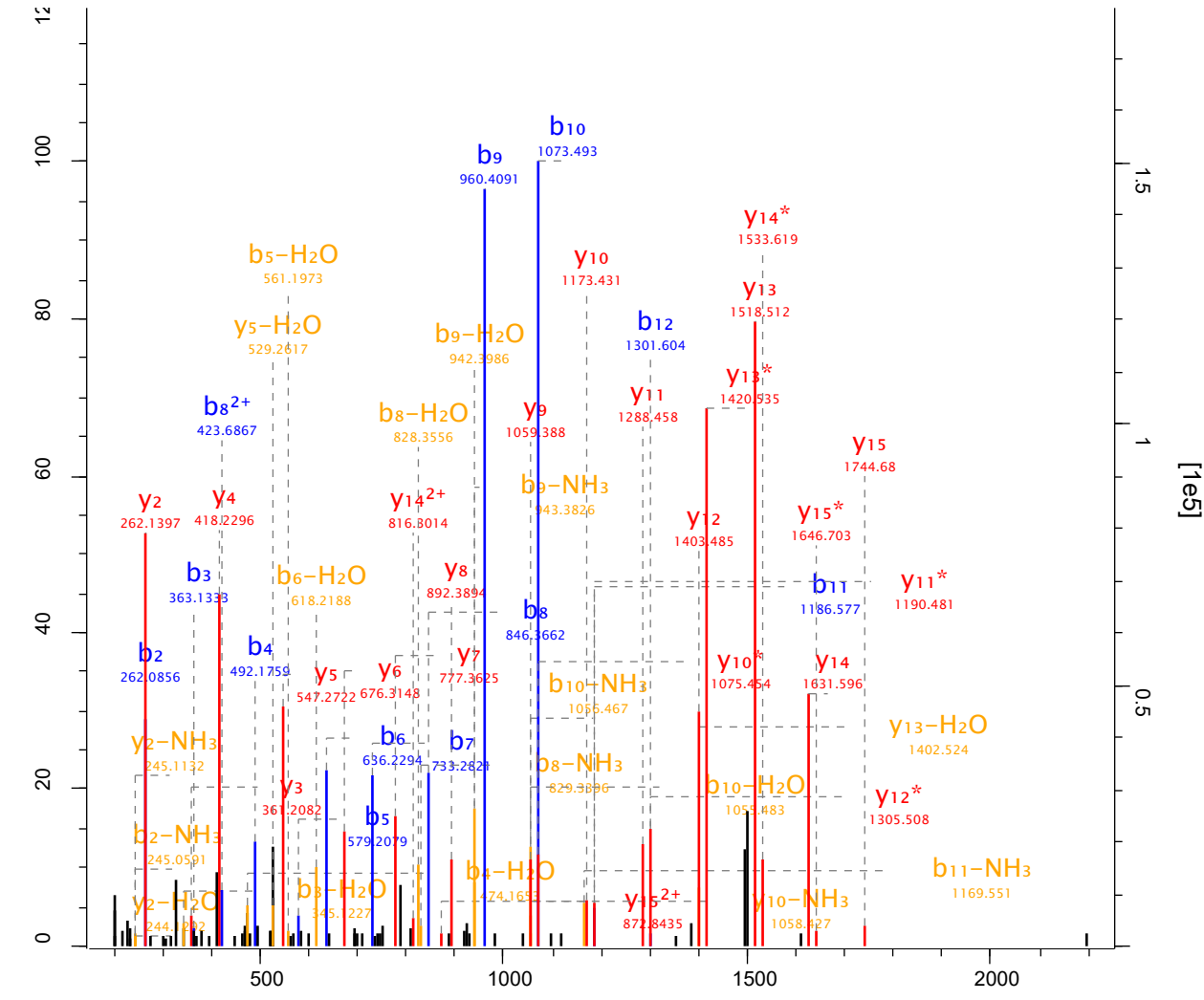
Raw file Scan Method Score m/z
 sys_15_1 3851 FTMS; HCD 88.71 594.76



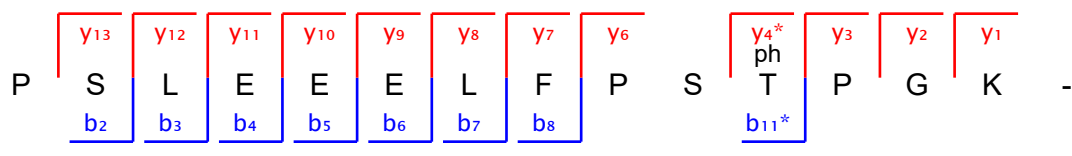
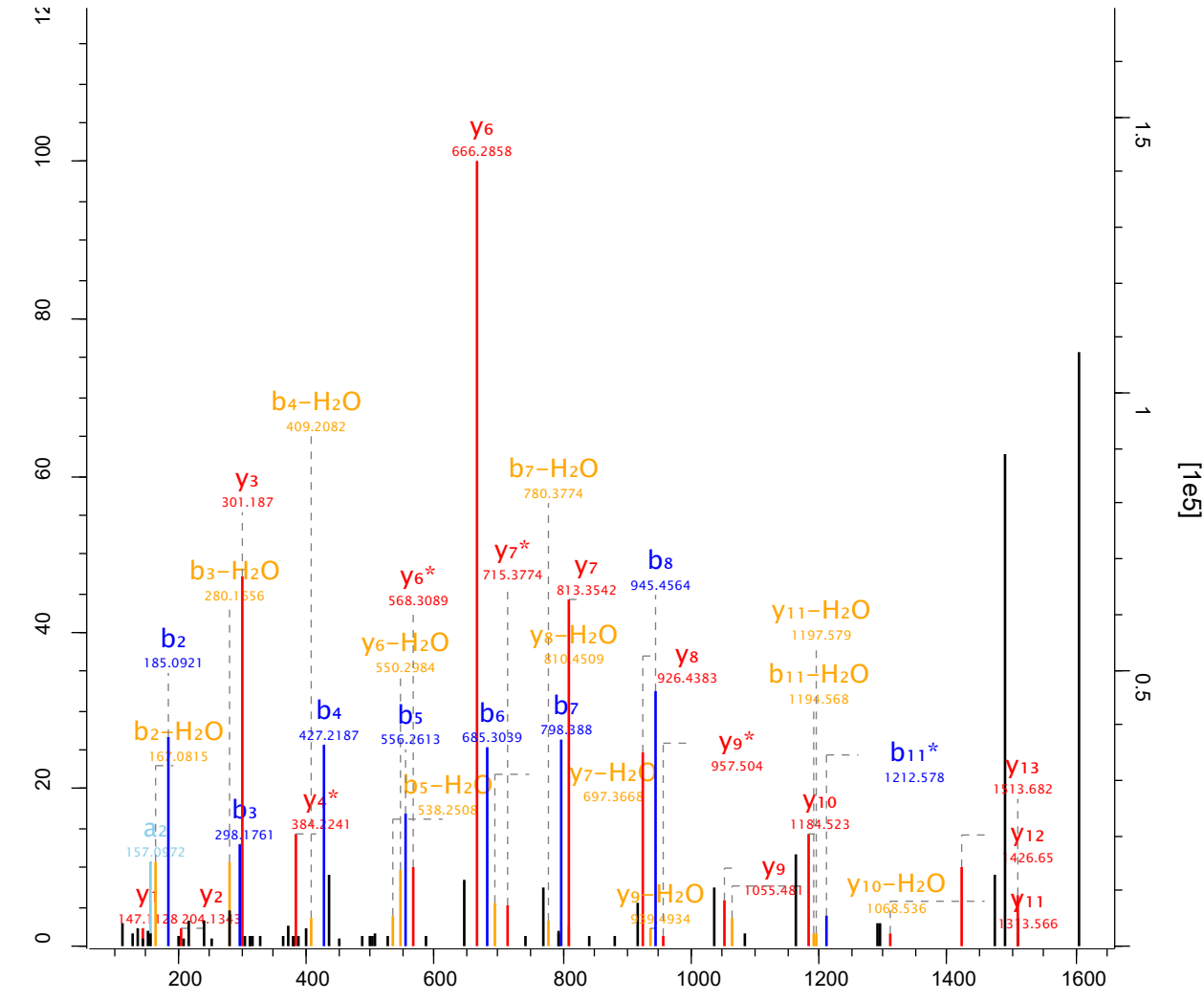
Raw file Scan Method Score m/z
 sys_15_1 38596 FTMS; HCD 111.01 887.03



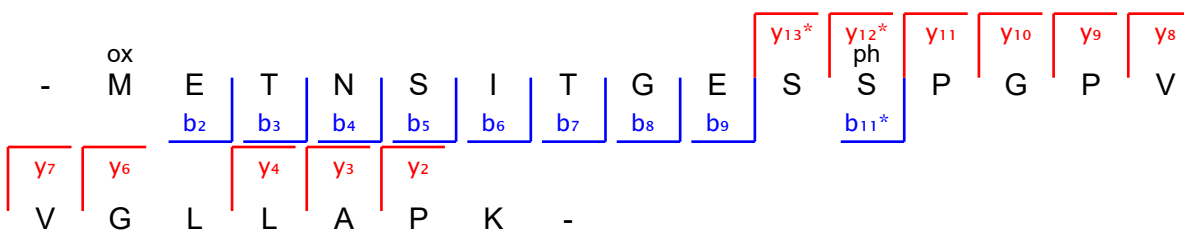
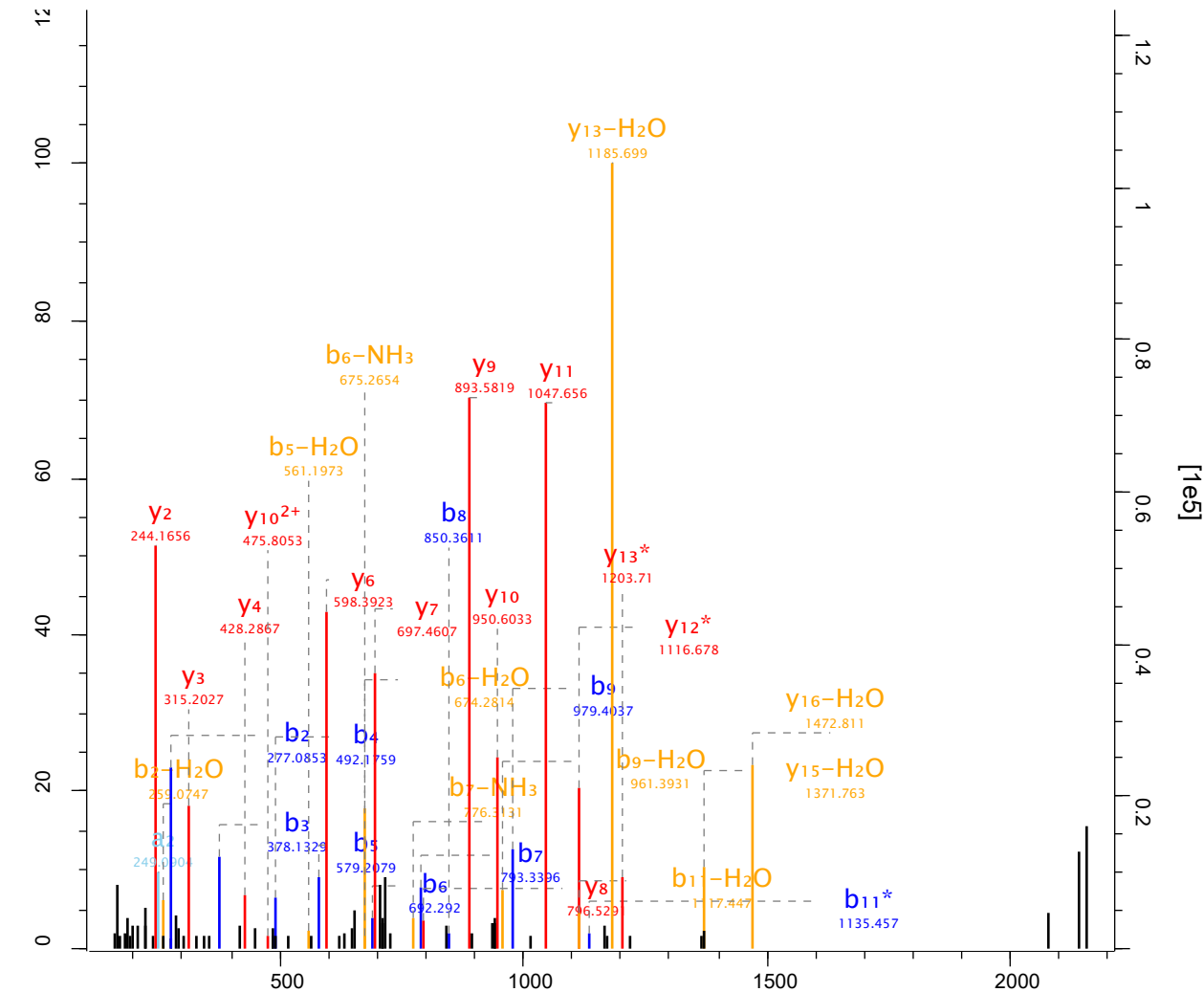
Raw file Scan Method Score m/z
 sys_15_1 38621 FTMS; HCD 203.19 902.03



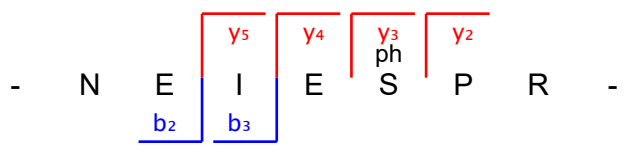
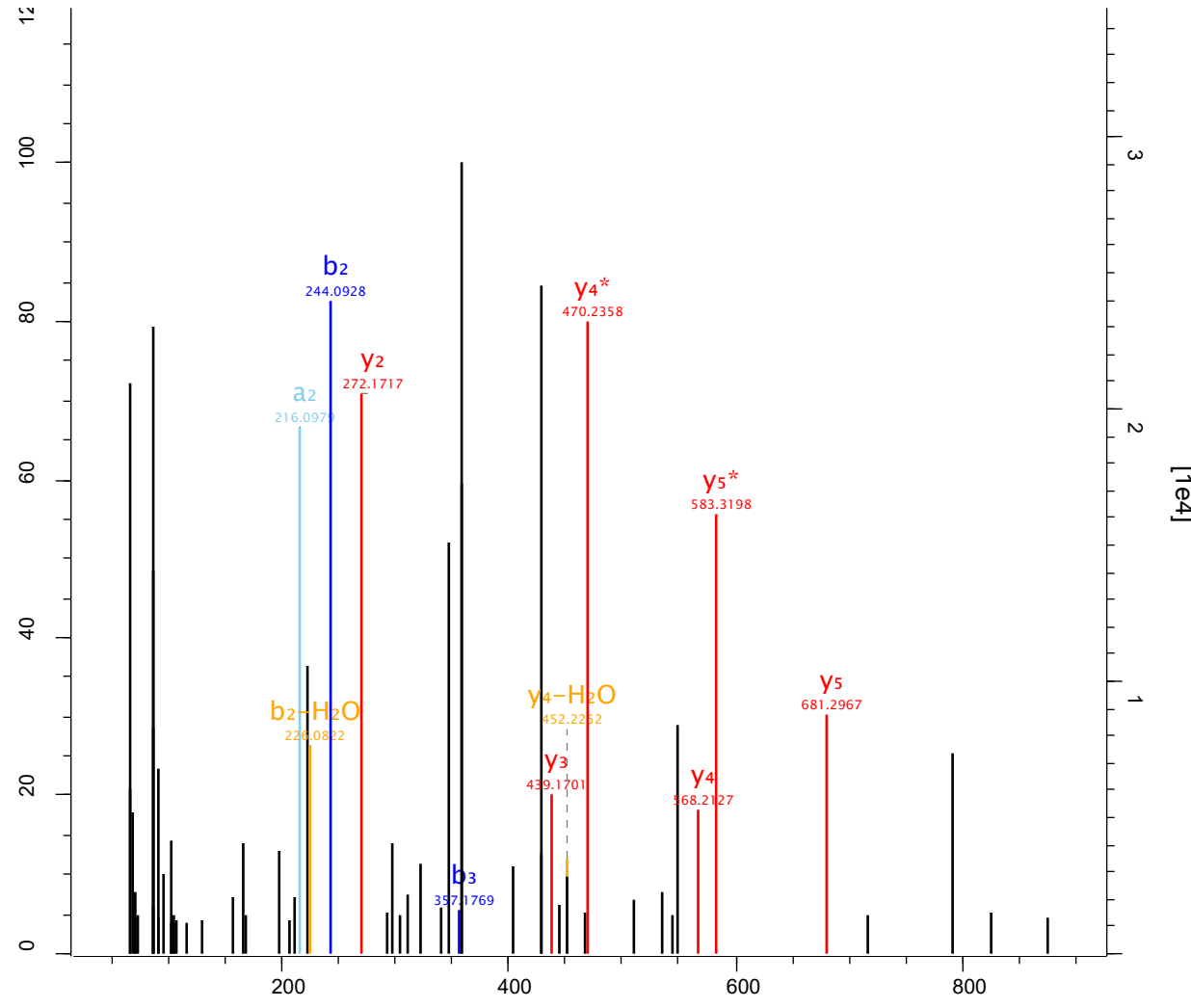
Raw file Scan Method Score m/z
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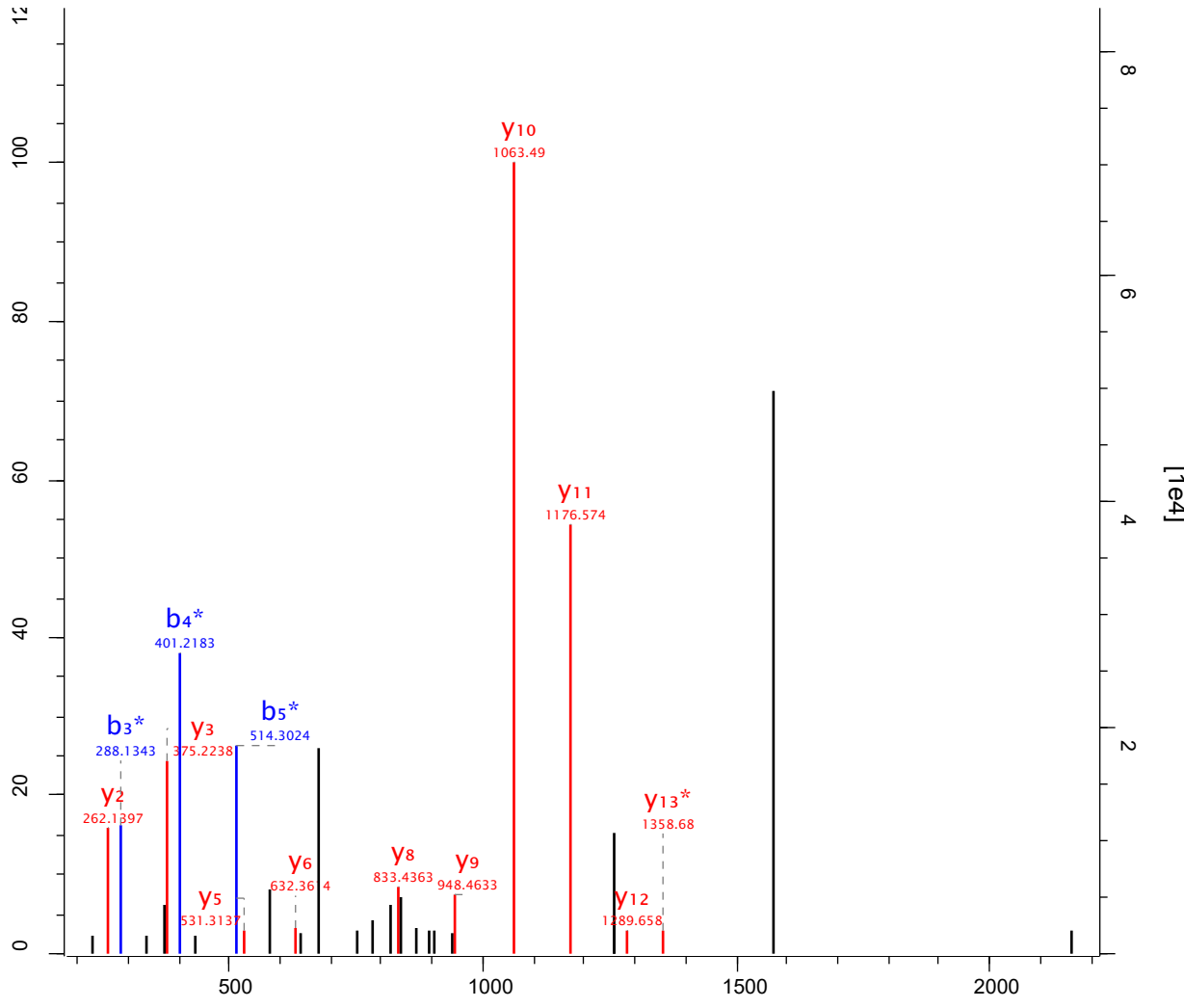
Raw file Scan Method Score m/z
 sys_15_1 38872 FTMS; HCD 98.3 761.03



Raw file	Scan	Method	Score	m/z
sys_15_1	3888	FTMS; HCD	61.78	462.69



Raw file Scan Method Score m/z
 sys_15_1 39109 FTMS; HCD 45.92 837.88

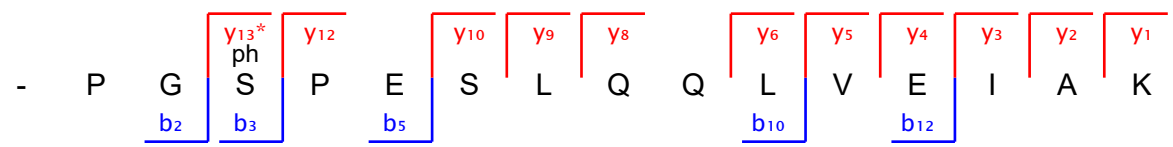
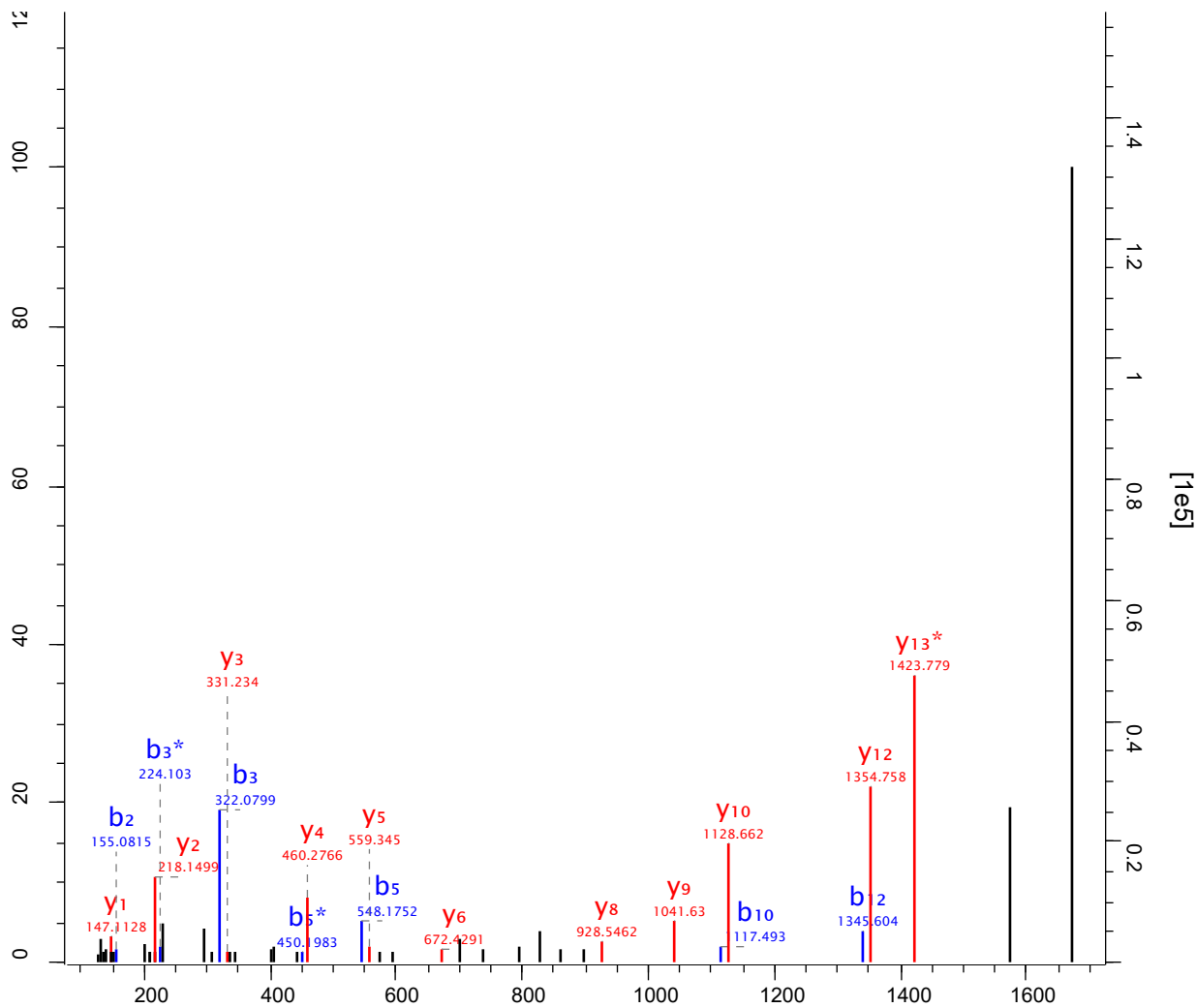


- A F S L I D D S N T G V L D K

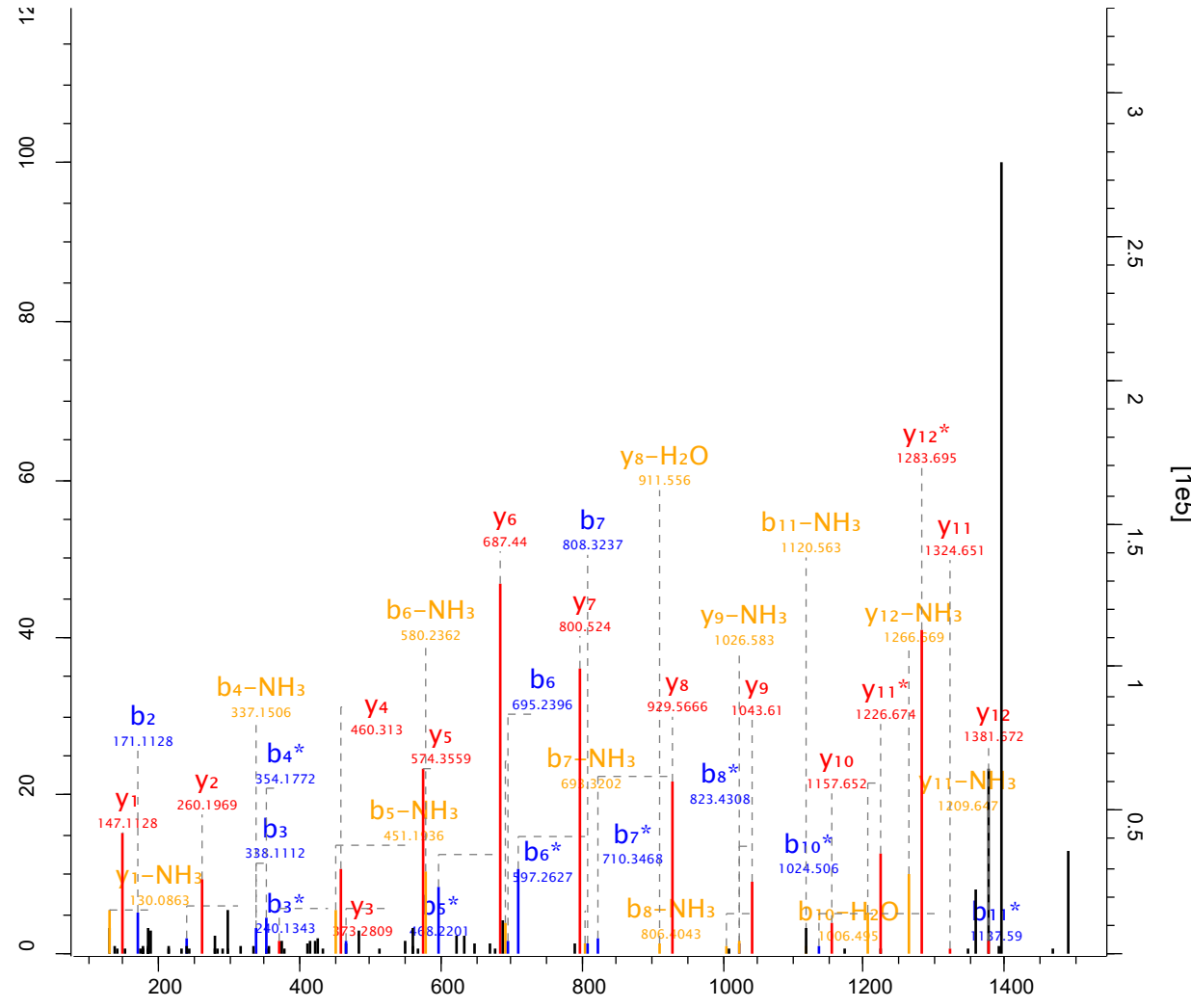
Fragmentation mapping (b and y ions):

- b3* (blue box) covers S, L, I
- b4* (blue box) covers L, I
- b5* (blue box) covers I
- y2 (red box) covers L, I
- y3 (red box) covers L, I, D
- y5 (red box) covers T, G
- y6 (red box) covers T, G
- y8 (red box) covers S
- y9 (red box) covers D
- y10 (red box) covers D
- y11 (red box) covers I, D
- y12 (red box) covers L, I
- y13* (red box) covers S

Raw file Scan Method Score m/z
 sys_15_1 39289 FTMS; HCD 64.7 838.42

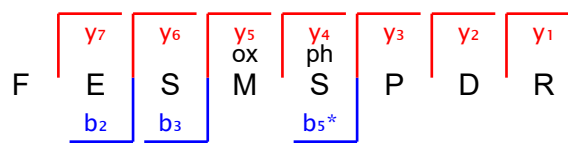
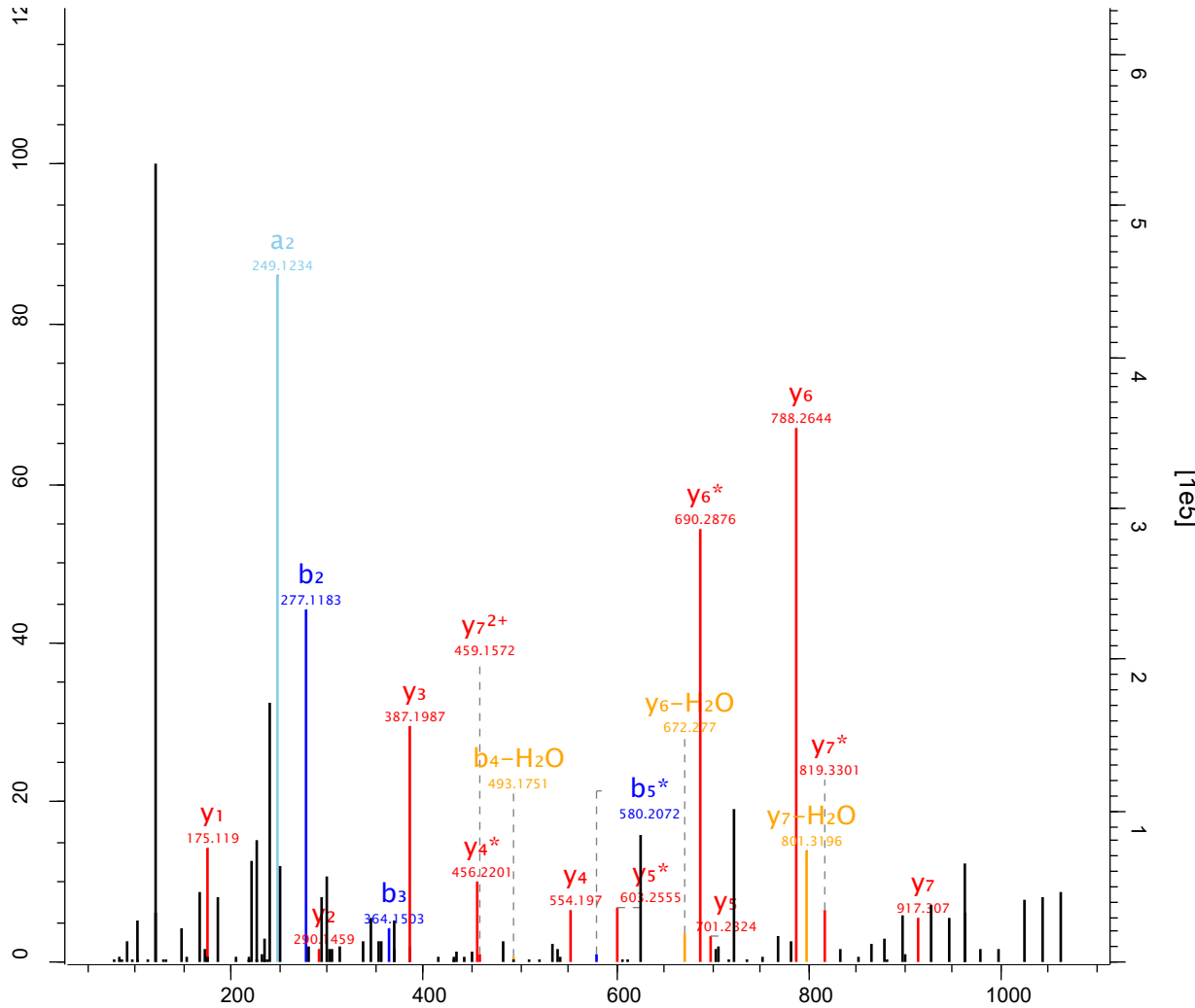


Raw file Scan Method Score m/z
 sys_15_1 39425 FTMS; HCD 218.12 747.88

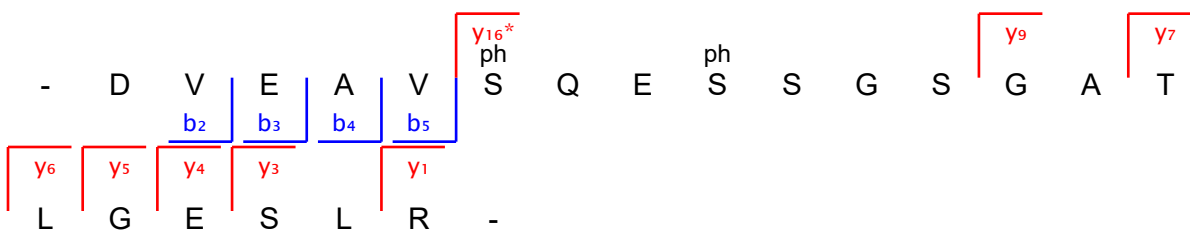
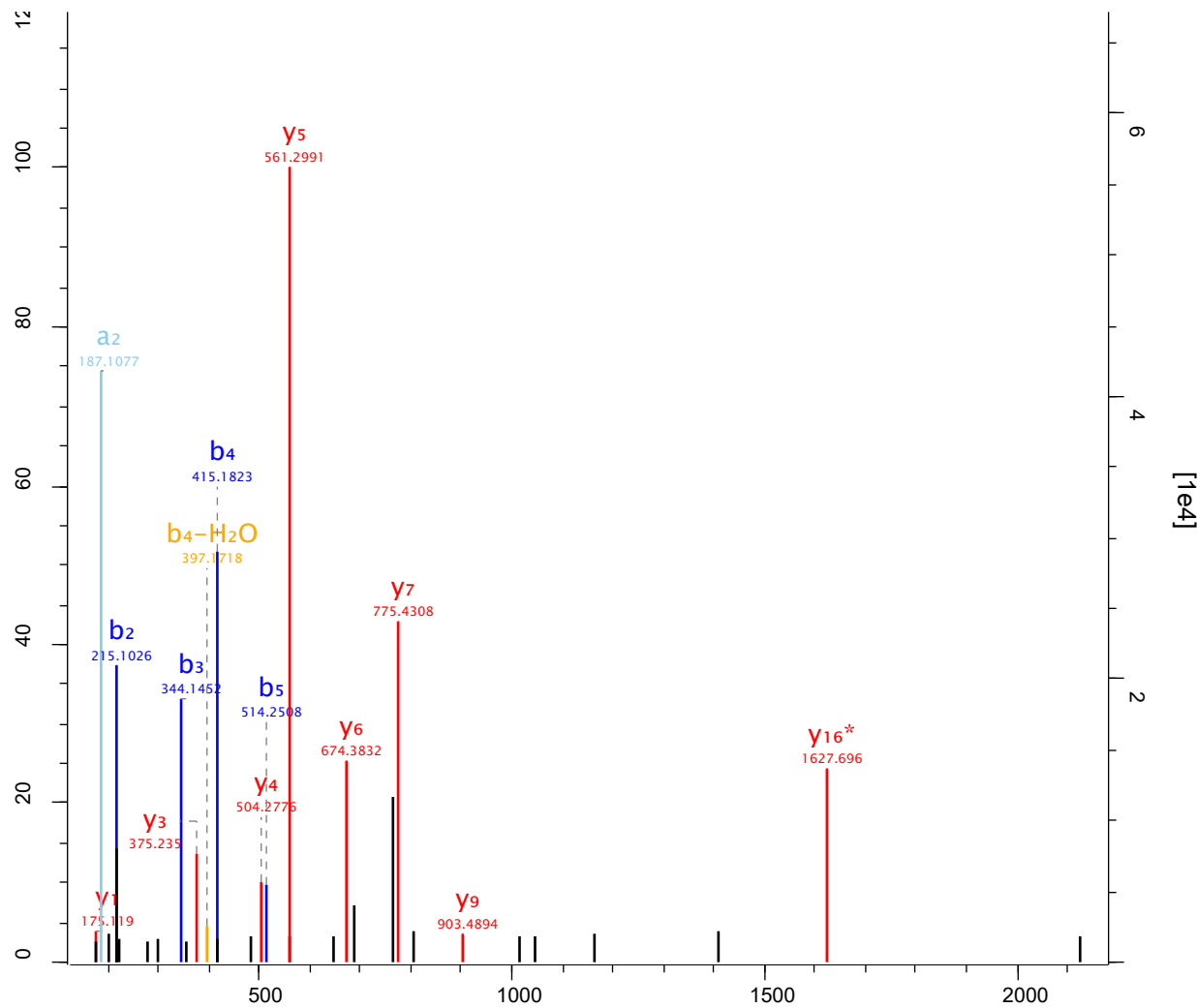


y12 y11 y10 y9 y8 y7 y6 y5 y4 y3 y2 y1
 - I G S N N E I L N S L I K -
b2 b3 b4* b5* b6 b7 b8* b10* b11*

Raw file Scan Method Score m/z
 sys_15_1 3966 FTMS; HCD 120.77 532.69



Raw file Scan Method Score m/z
 sys_15_1 39821 FTMS; HCD 43.7 747.31



Raw file Scan Method Score m/z
 sys_15_1 39897 FTMS; HCD 166.47 869.87

