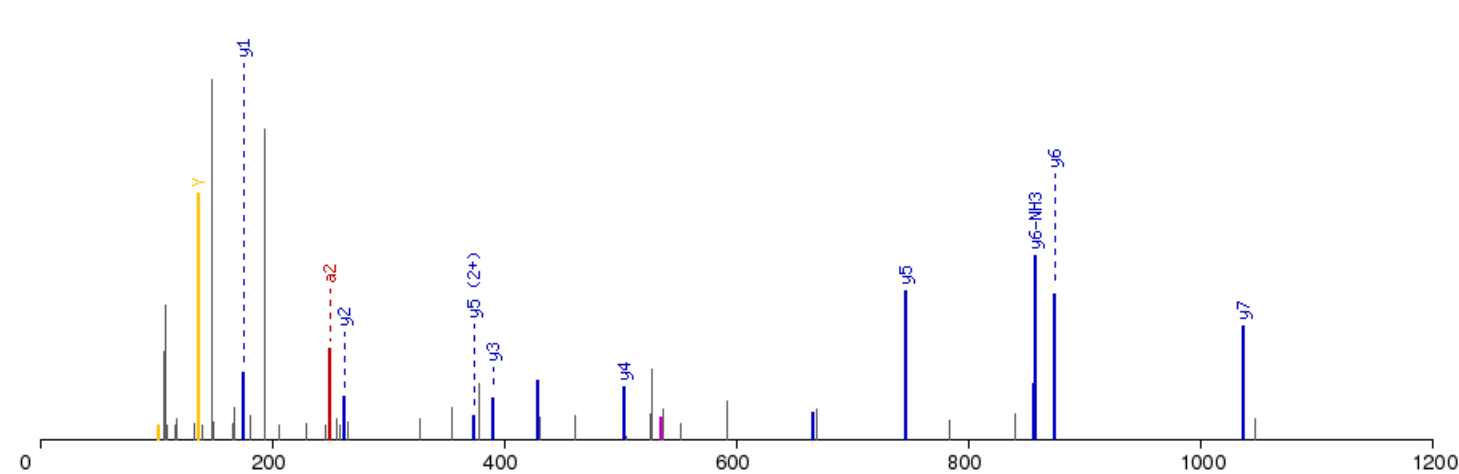


IYQY(+79.97)IQSR

Identified in MSS769 1 x Phospho (Y)

Charge: 2, Exp. m/z: 575.769, Calc. m/z: 575.772
Data File: Pepmix2_HCD.RAW.-1, Scans: 1179 - 1179

Max Intensity: 6.73e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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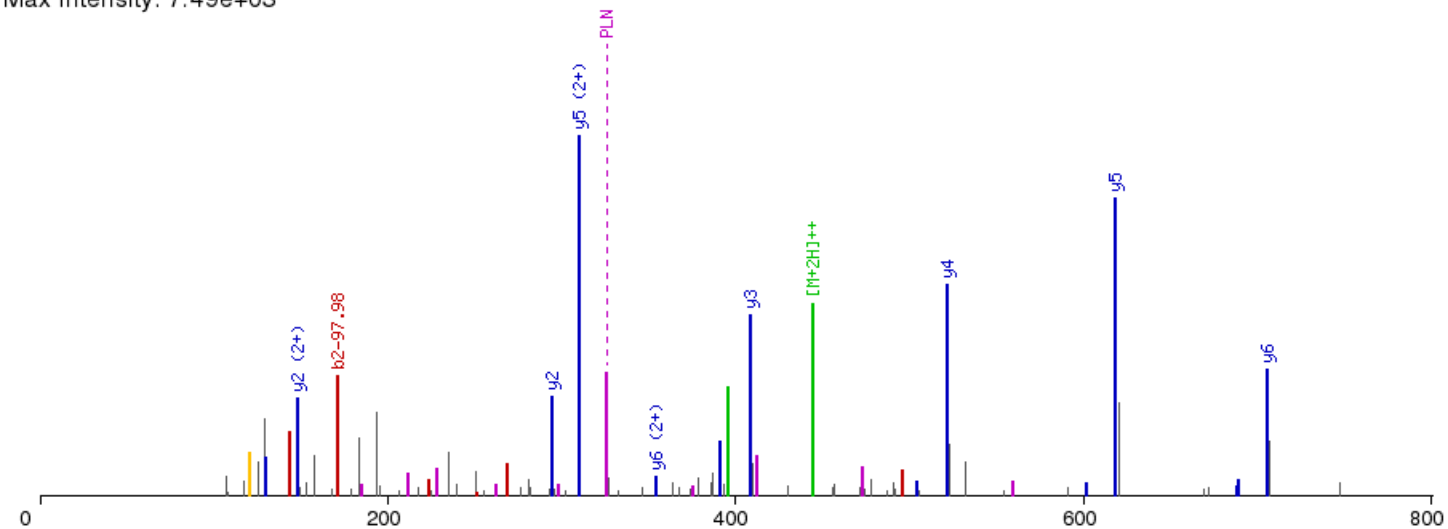
	I	Y	Q	Y	I	Q	S	R	
	1	2	3	4	5	6	7	8	
a		249.16							a
b		277.15	405.21	648.24	761.33	889.39	976.42		b
b-79.97				568.28	681.36	809.42	896.45		b-79.97
y		1037.45	874.38	746.32	503.29	390.21	262.15	175.12	y
y-79.97		957.48	794.42	666.36					y-79.97
y (2+)		519.23	437.69	373.67	252.15	195.61	131.58	88.06	y (2+)
y-79.97 (2+)		479.24	397.71	333.68					y-79.97 (2+)
	I	Y	Q	Y	I	Q	S	R	
	8	7	6	5	4	3	2	1	

T(+79.97)SPLNFK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 443.707, Calc. m/z: 443.711
Data File: Pepmix1_HCD.RAW.-1, Scans: 1487 - 1487

Max Intensity: 7.49e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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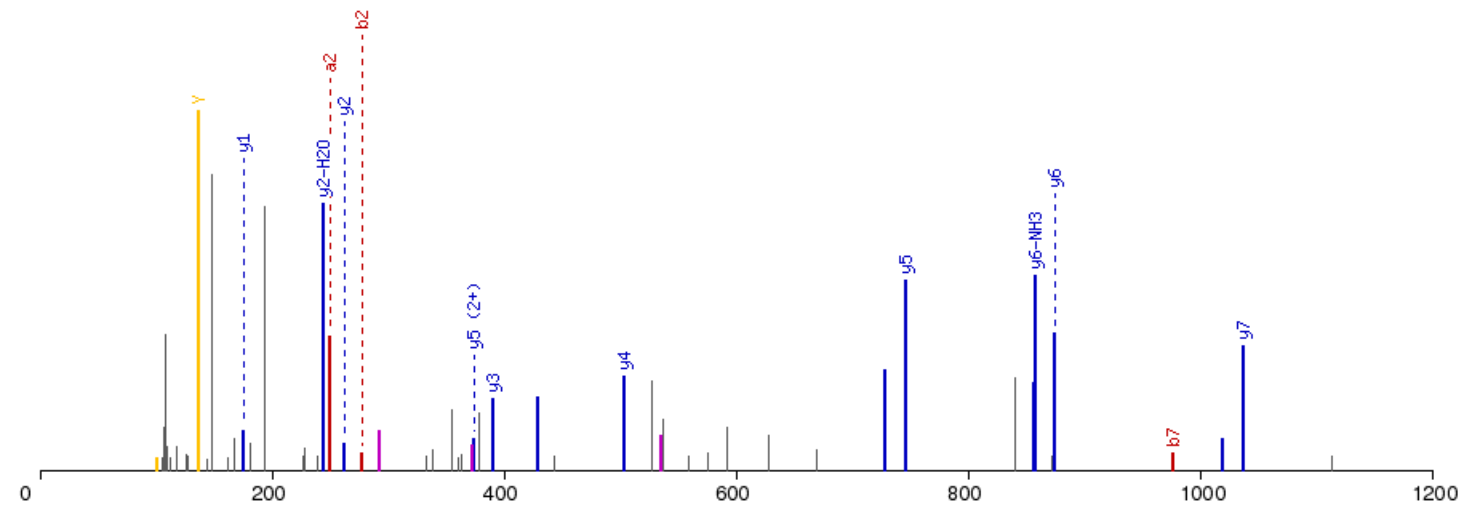
	T	S	P	L	N	F	K	
	1	2	3	4	5	6	7	
a		241.06						a
a-79.97		161.09						a-79.97
a-97.98		143.08						a-97.98
b		269.05	366.11	479.19	593.23	740.30		b
b-79.97		189.09	286.14	399.22	513.27	660.34		b-79.97
b-97.98		171.08	268.13	381.21	495.26	642.32		b-97.98
y		705.39	618.36	521.31	408.22	294.18	147.11	y
y (2+)		353.20	309.68	261.16	204.62	147.59	74.06	y (2+)
	T	S	P	L	N	F	K	
	7	6	5	4	3	2	1	

IYQY(+79.97)IQSR

Identified in MSS769 1 x Phospho (Y)

Charge: 2, Exp. m/z: 575.768, Calc. m/z: 575.772
Data File: Pepmix3_HCD.RAW.-1, Scans: 983 - 983

Max Intensity: 7.86e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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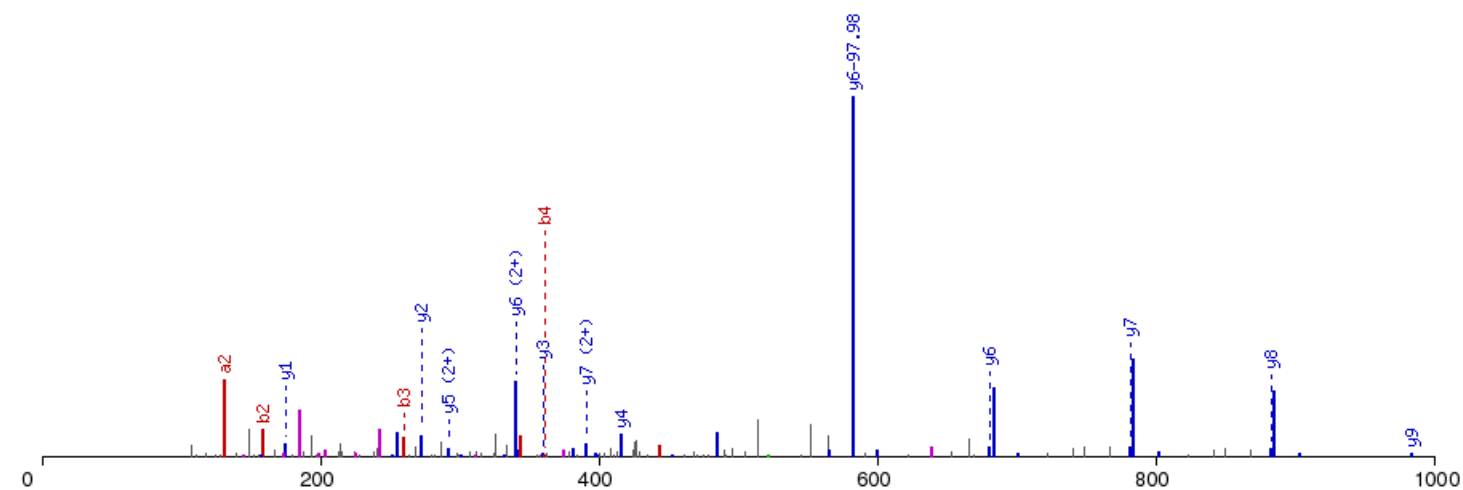
	I	Y	Q	Y	I	Q	S	R	
	1	2	3	4	5	6	7	8	
a		249.16							a
b		277.15	405.21	648.24	761.33	889.39	976.42		b
b-79.97				568.28	681.36	809.42	896.45		b-79.97
y		1037.45	874.38	746.32	503.29	390.21	262.15	175.12	y
y-79.97		957.48	794.42	666.36					y-79.97
y (2+)		519.23	437.69	373.67	252.15	195.61	131.58	88.06	y (2+)
y-79.97 (2+)		479.24	397.71	333.68					y-79.97 (2+)
	I	Y	Q	Y	I	Q	S	R	
	8	7	6	5	4	3	2	1	

SATTTPS(+79.97)GSPR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 571.248, Calc. m/z: 571.252
Data File: Pepmix2_HCD.RAW.-1, Scans: 655 - 655

Max Intensity: 7.81e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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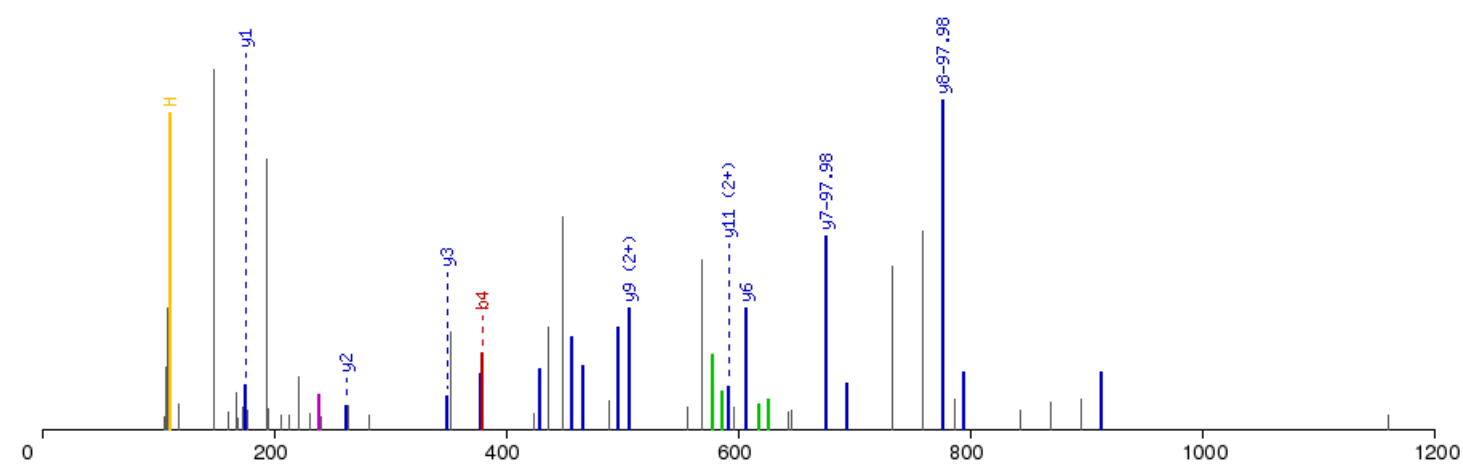
	S	A	T	T	T	P	S	G	S	P	R	
	1	2	3	4	5	6	7	8	9	10	11	
a		131.08										a
b		159.08	260.12	361.17	462.22	559.27	726.27	783.29	870.32	967.38		b
b-79.97							646.30	703.33	790.36	887.41		b-79.97
b-97.98							628.29	685.32	772.35	869.40		b-97.98
y		1054.46	983.42	882.37	781.32	680.28	583.22	416.23	359.20	272.17	175.12	y
y-79.97		974.49	903.45	802.41	701.36	600.31	503.26					y-79.97
y-97.98		956.48	885.44	784.39	683.35	582.30	485.25					y-97.98
y (2+)		527.73	492.21	441.69	391.17	340.64	292.12	208.62	180.11	136.59	88.06	y (2+)
y-79.97 (2+)		487.75	452.23	401.71	351.18	300.66	252.13					y-79.97 (2+)
y-97.98 (2+)		478.74	443.22	392.70	342.18	291.65	243.13					y-97.98 (2+)
	S	A	T	T	T	P	S	G	S	P	R	
	11	10	9	8	7	6	5	4	3	2	1	

AGIHTS(+79.97)GSLSSR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 626.788, Calc. m/z: 626.792
Data File: Pepmix3_HCD.RAW.-1, Scans: 982 - 982

Max Intensity: 7.44e+02



Sequence Ladder Ions

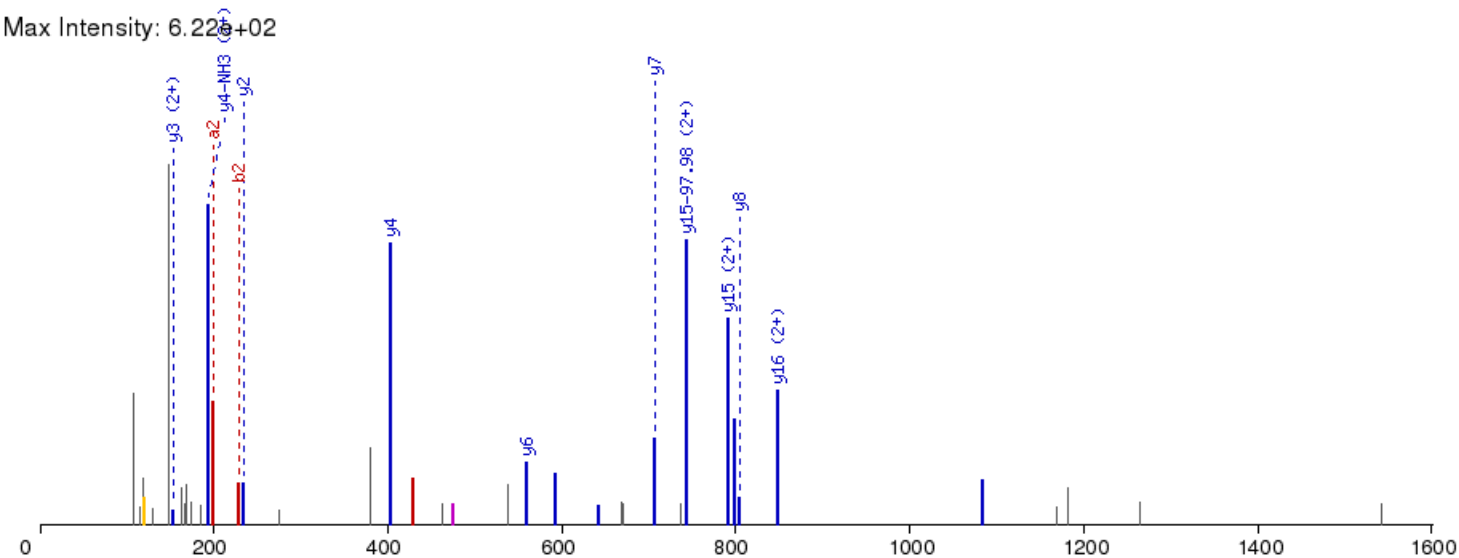
Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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	A	G	I	H	T	S	G	S	L	S	S	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		101.07											a
b		129.07	242.15	379.21	480.26	647.25	704.28	791.31	904.39	991.42	1078.46		b
b-79.97						567.29	624.31	711.34	824.43	911.46	998.49		b-79.97
b-97.98						549.28	606.30	693.33	806.42	893.45	980.48		b-97.98
b (2+)				190.11	240.63	324.13	352.64	396.16	452.70	496.22	539.73		b (2+)
b-79.97 (2+)						284.15	312.66	356.17	412.72	456.23	499.75		b-79.97 (2+)
b-97.98 (2+)						275.14	303.65	347.17	403.71	447.23	490.74		b-97.98 (2+)
y		1181.53	1124.51	1011.43	874.37	773.32	606.32	549.30	462.27	349.18	262.15	175.12	y
y-79.97		1101.56	1044.54	931.46	794.40	693.35							y-79.97
y-97.98		1083.55	1026.53	913.45	776.39	675.34							y-97.98
y (2+)		591.27	562.76	506.22	437.69	387.16	303.66	275.15	231.64	175.10	131.58	88.06	y (2+)
y-79.97 (2+)		551.29	522.78	466.23	397.70	347.18							y-79.97 (2+)
y-97.98 (2+)		542.28	513.77	457.23	388.70	338.17							y-97.98 (2+)
	A	G	I	H	T	S	G	S	L	S	S	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

ILS(+79.97)DVTHSAVFGVPASK

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 603.305, Calc. m/z: 603.307
Data File: Pepmix5_HCD.RAW.-1, Scans: 1619 - 1619



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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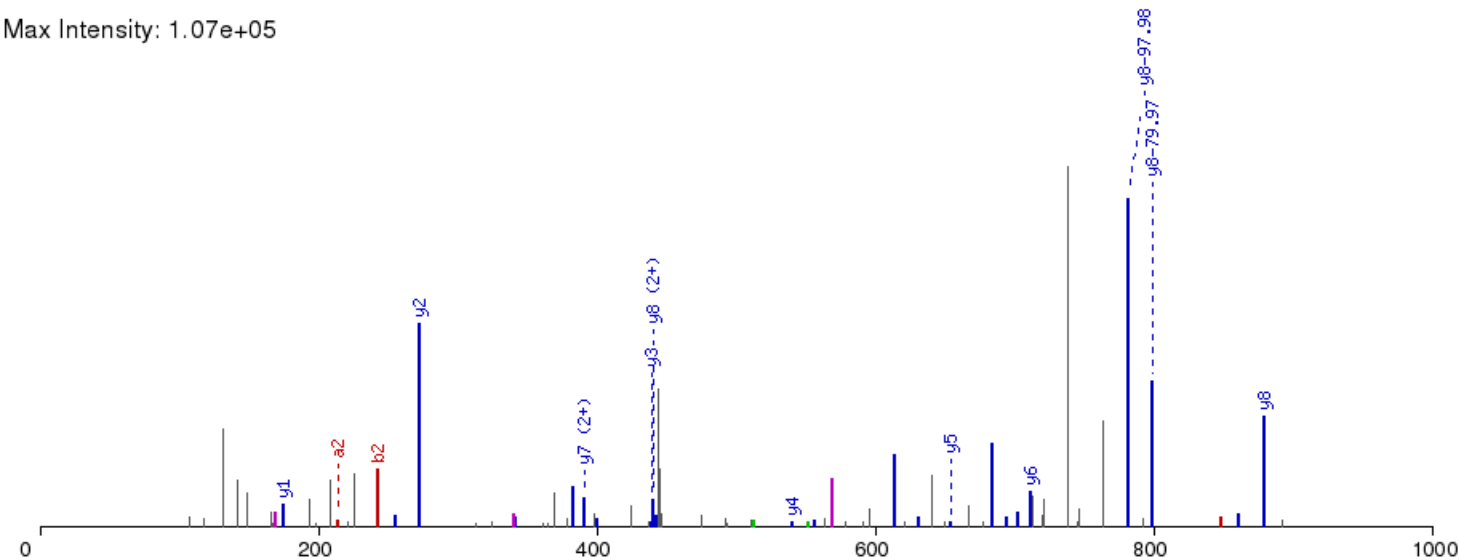
	I	L	S	D	V	T	H	S	A	V	F	G	V	P	A	S	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
a		199.18																a
b		227.18	394.17	509.20	608.27	709.32	846.38	933.41	1004.44	1103.51	1250.58	1307.60	1406.67	1503.72	1574.76	1661.79		b
b-79.97			314.21	429.23	528.30	629.35	766.41	853.44	924.48	1023.55	1170.62	1227.64	1326.71	1423.76	1494.80	1581.83		b-79.97
b-97.98			296.20	411.22	510.29	611.34	748.40	835.43	906.47	1005.54	1152.60	1209.63	1308.69	1405.75	1476.78	1563.82		b-97.98
b (2+)							423.69	467.21	502.73	552.26	625.79	654.31	703.84	752.37	787.88	831.40		b (2+)
b-79.97 (2+)							383.71	427.22	462.74	512.28	585.81	614.32	663.86	712.38	747.90	791.42		b-79.97 (2+)
b-97.98 (2+)							374.70	418.22	453.74	503.27	576.81	605.32	654.85	703.38	738.90	782.41		b-97.98 (2+)
y		1694.81	1581.73	1414.73	1299.71	1200.64	1099.59	962.53	875.50	804.46	705.39	558.32	501.30	402.23	305.18	234.14	147.11	y
y-79.97		1614.85	1501.76															y-79.97
y-97.98		1596.84	1483.75															y-97.98
y (2+)		847.91	791.37	707.87	650.36	600.82	550.30	481.77	438.25	402.73	353.20	279.67	251.16	201.62	153.09	117.58	74.06	y (2+)
y-79.97 (2+)		807.93	751.39															y-79.97 (2+)
y-97.98 (2+)		798.92	742.38															y-97.98 (2+)
y (3+)		565.61	527.92	472.25	433.91	400.88	367.20											y (3+)
y-79.97 (3+)		538.95	501.26															y-79.97 (3+)
y-97.98 (3+)		532.95	495.26															y-97.98 (3+)
	I	L	S	D	V	T	H	S	A	V	F	G	V	P	A	S	K	
	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

IQPAGNTS(+79.97)PR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 560.761, Calc. m/z: 560.767
Data File: Pepmix2_HCD.RAW.-1, Scans: 737 - 737

Max Intensity: 1.07e+05



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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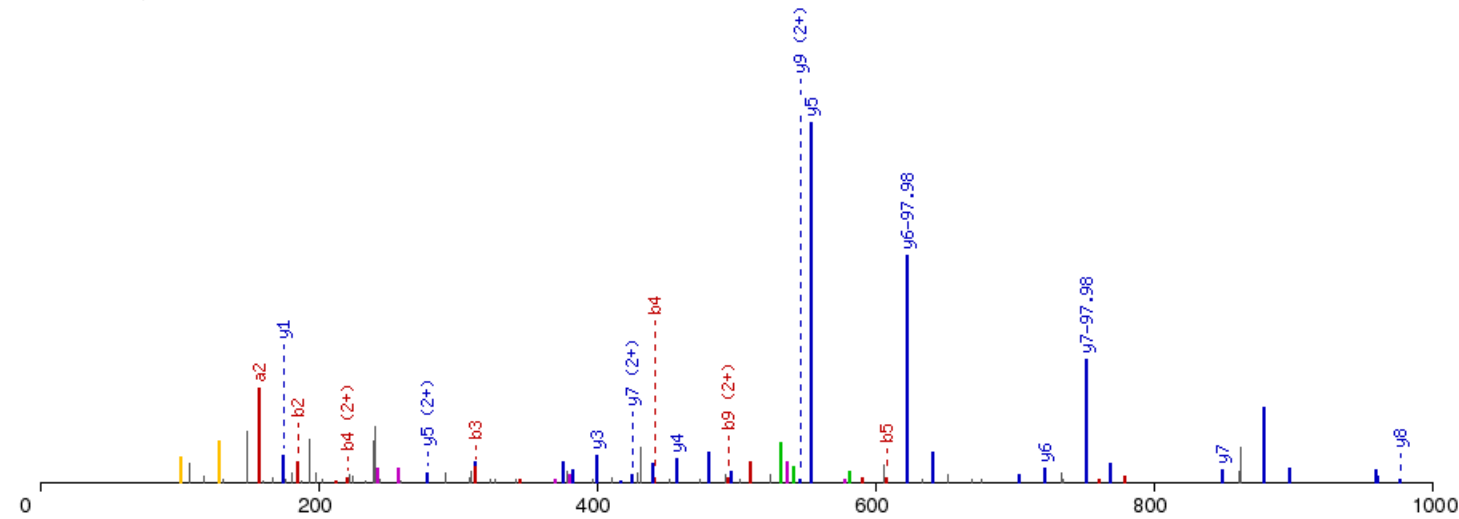
	I	Q	P	A	G	N	T	S	P	R	
	1	2	3	4	5	6	7	8	9	10	
a		214.16									a
b		242.15	339.20	410.24	467.26	581.30	682.35	849.35	946.40		b
b-79.97								769.38	866.44		b-79.97
b-97.98								751.37	848.43		b-97.98
y		1007.43	879.37	782.32	711.28	654.26	540.22	439.17	272.17	175.12	y
y-79.97		927.46	799.41	702.35	631.32	574.29	460.25	359.20			y-79.97
y-97.98		909.45	781.40	684.34	613.31	556.28	442.24	341.19			y-97.98
y (2+)		504.22	440.19	391.66	356.14	327.63	270.61	220.09	136.59	88.06	y (2+)
y-79.97 (2+)		464.24	400.21	351.68	316.16	287.65	230.63	180.11			y-79.97 (2+)
y-97.98 (2+)		455.23	391.20	342.67	307.16	278.65	221.62	171.10			y-97.98 (2+)
	I	Q	P	A	G	N	T	S	P	R	
	10	9	8	7	6	5	4	3	2	1	

ALQKS(+79.97)PGPQR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 581.293, Calc. m/z: 581.297
Data File: Pepmix2_HCD.RAW.-1, Scans: 635 - 635

Max Intensity: 4.75e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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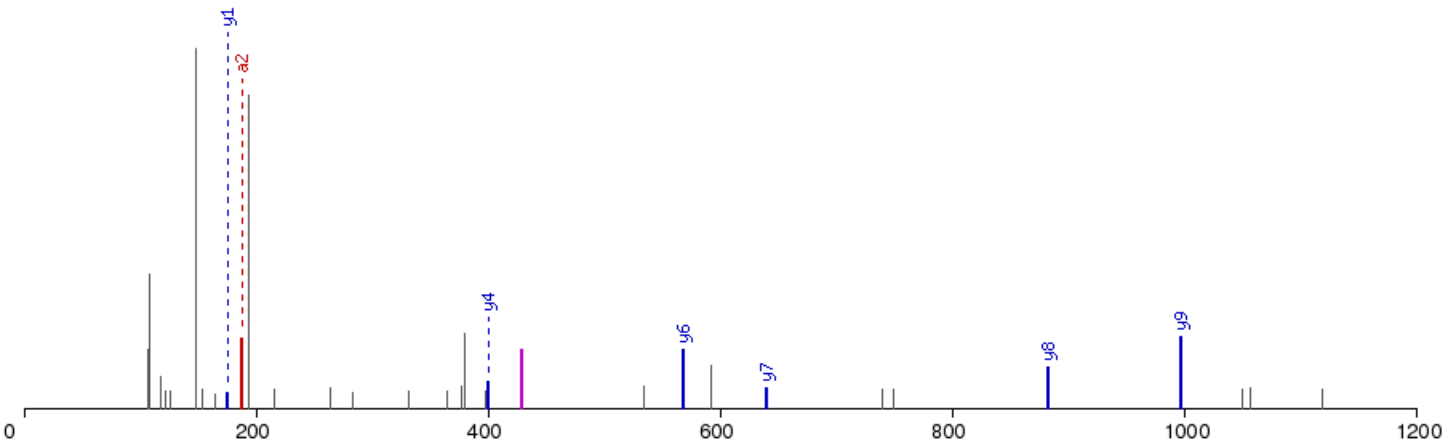
	A	L	Q	K	S	P	G	P	Q	R	
	1	2	3	4	5	6	7	8	9	10	
a		157.13									a
b		185.13	313.19	441.28	608.28	705.33	762.35	859.41	987.47		b
b-79.97					528.31	625.37	682.39	779.44	907.50		b-79.97
b-97.98					510.30	607.36	664.38	761.43	889.49		b-97.98
b (2+)				221.14	304.64	353.17	381.68	430.21	494.24		b (2+)
b-79.97 (2+)					264.66	313.19	341.70	390.22	454.25		b-79.97 (2+)
b-97.98 (2+)					255.66	304.18	332.69	381.22	445.25		b-97.98 (2+)
y		1090.54	977.46	849.40	721.30	554.30	457.25	400.23	303.18	175.12	y
y-79.97		1010.57	897.49	769.43	641.34						y-79.97
y-97.98		992.56	879.48	751.42	623.33						y-97.98
y (2+)		545.77	489.23	425.20	361.16	277.66	229.13	200.62	152.09	88.06	y (2+)
y-79.97 (2+)		505.79	449.25	385.22	321.17						y-79.97 (2+)
y-97.98 (2+)		496.79	440.24	376.21	312.17						y-97.98 (2+)
	A	L	Q	K	S	P	G	P	Q	R	
	10	9	8	7	6	5	4	3	2	1	

TLSEVDY(+79.97)APAGPAR

Identified in MSS769 1 x Phospho (Y)

Charge: 2, Exp. m/z: 763.849, Calc. m/z: 763.847
Data File: Pepmix5_HCD.RAW.-1, Scans: 1326 - 1326

Max Intensity: 6.12e+02



Sequence Ladder Ions

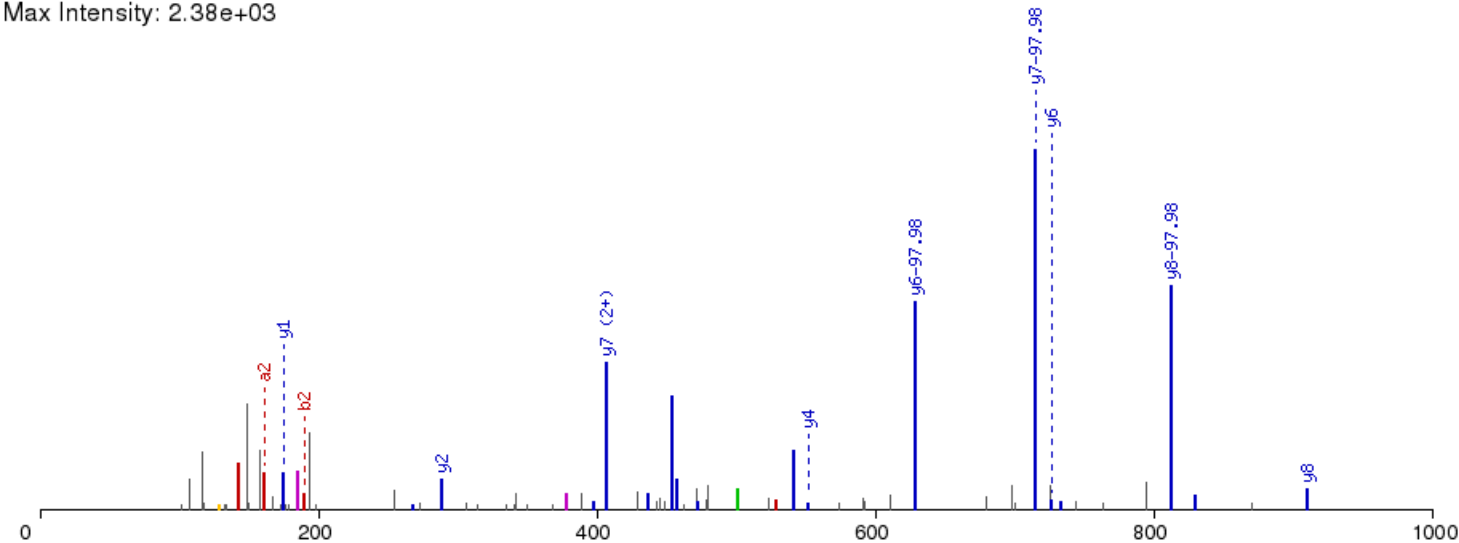
Key:	m/z out of range of spectrum				matched c-term ion			unmatched c-term ion			matched n-term ion			unmatched n-term ion		
	T	L	S	E	V	D	Y	A	P	A	G	P	A	R		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14		
a		187.14													a	
b		215.14	302.17	431.21	530.28	645.31	888.34	959.38	1056.43	1127.47	1184.49	1281.54	1352.58		b	
b-79.97							808.37	879.41	976.46	1047.50	1104.52	1201.57	1272.61		b-79.97	
y		1425.64	1312.56	1225.52	1096.48	997.41	882.39	639.36	568.32	471.27	400.23	343.21	246.16	175.12	y	
y-79.97		1345.67	1232.59	1145.56	1016.52	917.45	802.42								y-79.97	
y (2+)		713.32	656.78	613.27	548.74	499.21	441.70	320.18	284.66	236.14	200.62	172.11	123.58	88.06	y (2+)	
y-79.97 (2+)		673.34	616.80	573.28	508.76	459.23	401.71								y-79.97 (2+)	
	T	L	S	E	V	D	Y	A	P	A	G	P	A	R		
	14	13	12	11	10	9	8	7	6	5	4	3	2	1		

STPSSSPS(+79.97)LR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 549.745, Calc. m/z: 549.747
Data File: Pepmix2_HCD.RAW.-1, Scans: 951 - 951

Max Intensity: 2.38e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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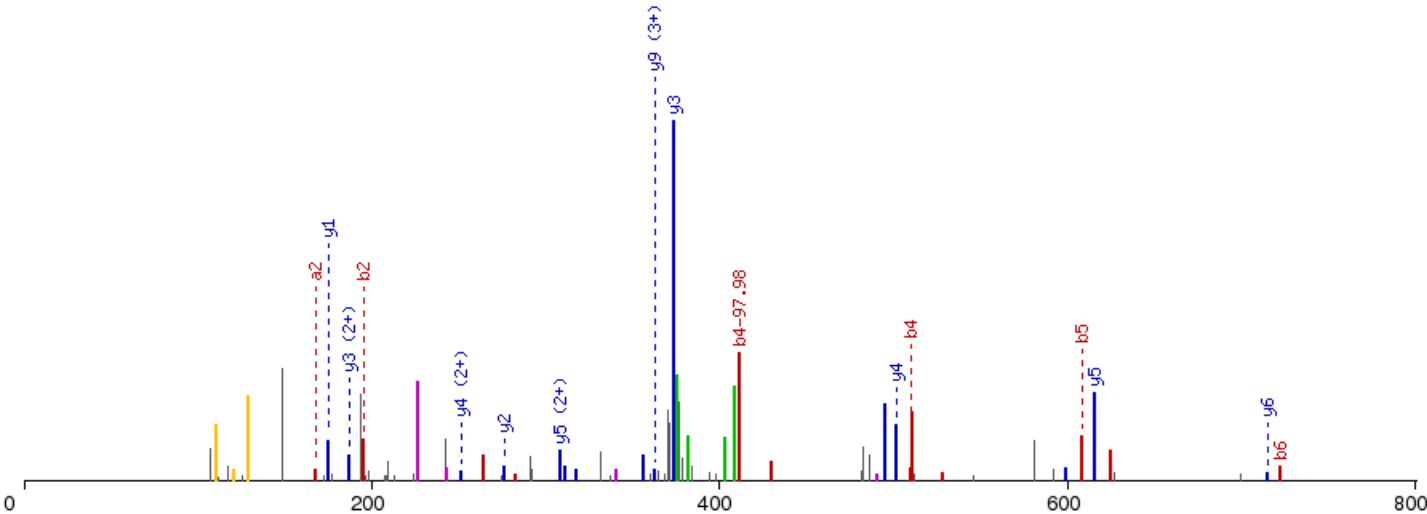
	S	T	P	S	S	S	P	S	L	R	
	1	2	3	4	5	6	7	8	9	10	
a		161.09									a
b		189.09	286.14	373.17	460.20	547.24	644.29	811.29	924.37		b
b-79.97								731.32	844.40		b-79.97
b-97.98								713.31	826.39		b-97.98
y		1011.45	910.40	813.35	726.32	639.29	552.25	455.20	288.20	175.12	y
y-79.97		931.48	830.44	733.38	646.35	559.32	472.29	375.24			y-79.97
y-97.98		913.47	812.43	715.37	628.34	541.31	454.28	357.22			y-97.98
y (2+)		506.23	455.71	407.18	363.66	320.15	276.63	228.10	144.61	88.06	y (2+)
y-79.97 (2+)		466.25	415.72	367.20	323.68	280.16	236.65	188.12			y-79.97 (2+)
y-97.98 (2+)		457.24	406.72	358.19	314.67	271.16	227.64	179.12			y-97.98 (2+)
	S	T	P	S	S	S	P	S	L	R	
	10	9	8	7	6	5	4	3	2	1	

HGS(+79.97)FVUNKPTR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 408.196, Calc. m/z: 408.197
Data File: Pepmix2_HCD.RAW.-1, Scans: 765 - 765

Max Intensity: 2.23e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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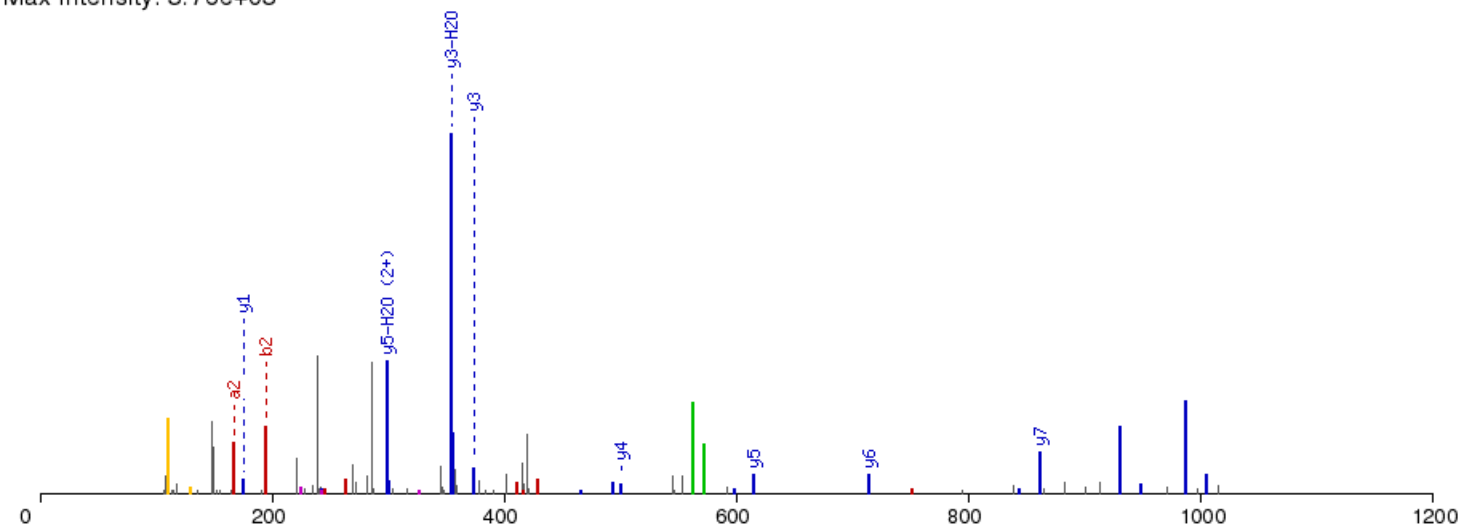
	H	G	S	F	V	N	K	P	T	R	
	1	2	3	4	5	6	7	8	9	10	
a		167.09									a
a (2+)		84.05									a (2+)
b		195.09	362.09	509.15	608.22	722.27	850.36	947.41	1048.46		b
b-79.97			282.12	429.19	528.26	642.30	770.39	867.45	968.49		b-79.97
b-97.98			264.11	411.18	510.25	624.29	752.38	849.44	950.48		b-97.98
b (2+)		98.05	181.55	255.08	304.62	361.64	425.68	474.21	524.73		b (2+)
b-79.97 (2+)			141.56	215.10	264.63	321.65	385.70	434.23	484.75		b-79.97 (2+)
b-97.98 (2+)			132.56	206.09	255.63	312.65	376.70	425.22	475.75		b-97.98 (2+)
b (3+)							284.13	316.48	350.16		b (3+)
b-79.97 (3+)							257.47	289.82	323.50		b-79.97 (3+)
b-97.98 (3+)							251.47	283.82	317.50		b-97.98 (3+)
y		1085.51	1028.49	861.49	714.43	615.36	501.31	373.22	276.17	175.12	y
y-79.97		1005.55	948.53								y-79.97
y-97.98		987.54	930.52								y-97.98
y (2+)		543.26	514.75	431.25	357.72	308.18	251.16	187.11	138.59	88.06	y (2+)
y-79.97 (2+)		503.28	474.77								y-79.97 (2+)
y-97.98 (2+)		494.27	465.76								y-97.98 (2+)
y (3+)		362.51	343.50	287.84	238.81	205.79	167.78				y (3+)
y-79.97 (3+)		335.85	316.85								y-79.97 (3+)
y-97.98 (3+)		329.85	310.84								y-97.98 (3+)
	H	G	S	F	V	N	K	P	T	R	
	10	9	8	7	6	5	4	3	2	1	

HGS(+79.97)FVNKPTR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 611.790, Calc. m/z: 611.792
Data File: Pepmix2_HCD.RAW.-1, Scans: 764 - 764

Max Intensity: 3.76e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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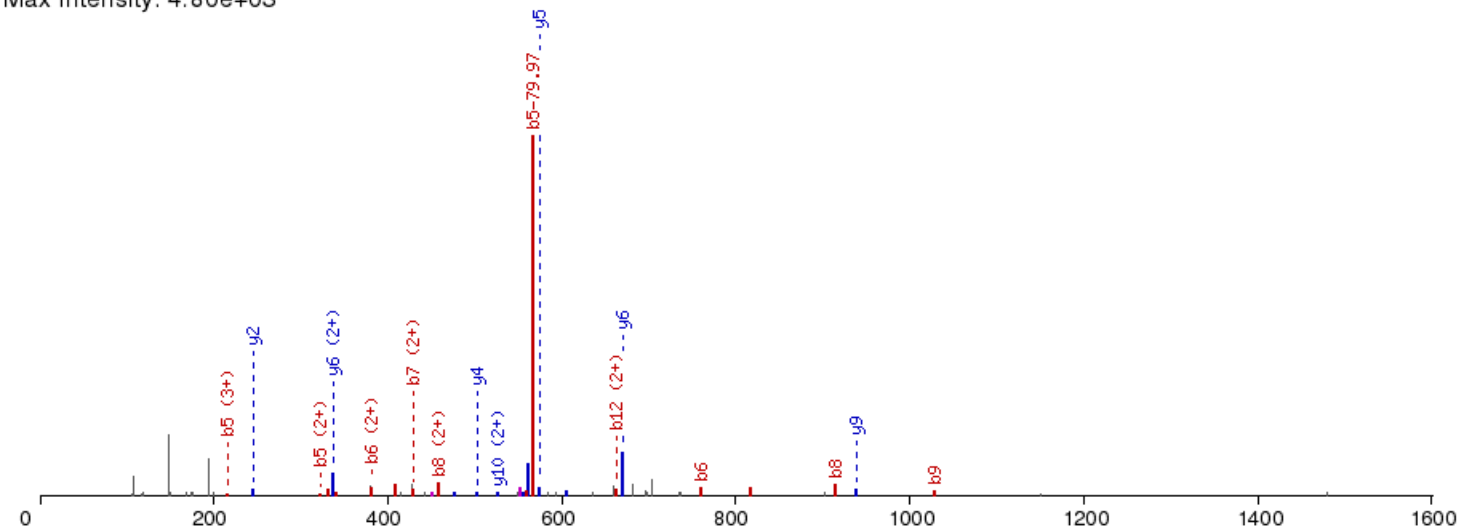
	H	G	S	F	V	N	K	P	T	R	
	1	2	3	4	5	6	7	8	9	10	
a		167.09									a
a (2+)		84.05									a (2+)
b		195.09	362.09	509.15	608.22	722.27	850.36	947.41	1048.46		b
b-79.97			282.12	429.19	528.26	642.30	770.39	867.45	968.49		b-79.97
b-97.98			264.11	411.18	510.25	624.29	752.38	849.44	950.48		b-97.98
b (2+)		98.05	181.55	255.08	304.62	361.64	425.68	474.21	524.73		b (2+)
b-79.97 (2+)			141.56	215.10	264.63	321.65	385.70	434.23	484.75		b-79.97 (2+)
b-97.98 (2+)			132.56	206.09	255.63	312.65	376.70	425.22	475.75		b-97.98 (2+)
y		1085.51	1028.49	861.49	714.43	615.36	501.31	373.22	276.17	175.12	y
y-79.97		1005.55	948.53								y-79.97
y-97.98		987.54	930.52								y-97.98
y (2+)		543.26	514.75	431.25	357.72	308.18	251.16	187.11	138.59	88.06	y (2+)
y-79.97 (2+)		503.28	474.77								y-79.97 (2+)
y-97.98 (2+)		494.27	465.76								y-97.98 (2+)
	H	G	S	F	V	N	K	P	T	R	
	10	9	8	7	6	5	4	3	2	1	

IHRAS(+79.97)DPGLPAEEPK

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 566.274, Calc. m/z: 566.274
Data File: Pepmix4_HCD.RAW.-1, Scans: 1123 - 1123

Max Intensity: 4.80e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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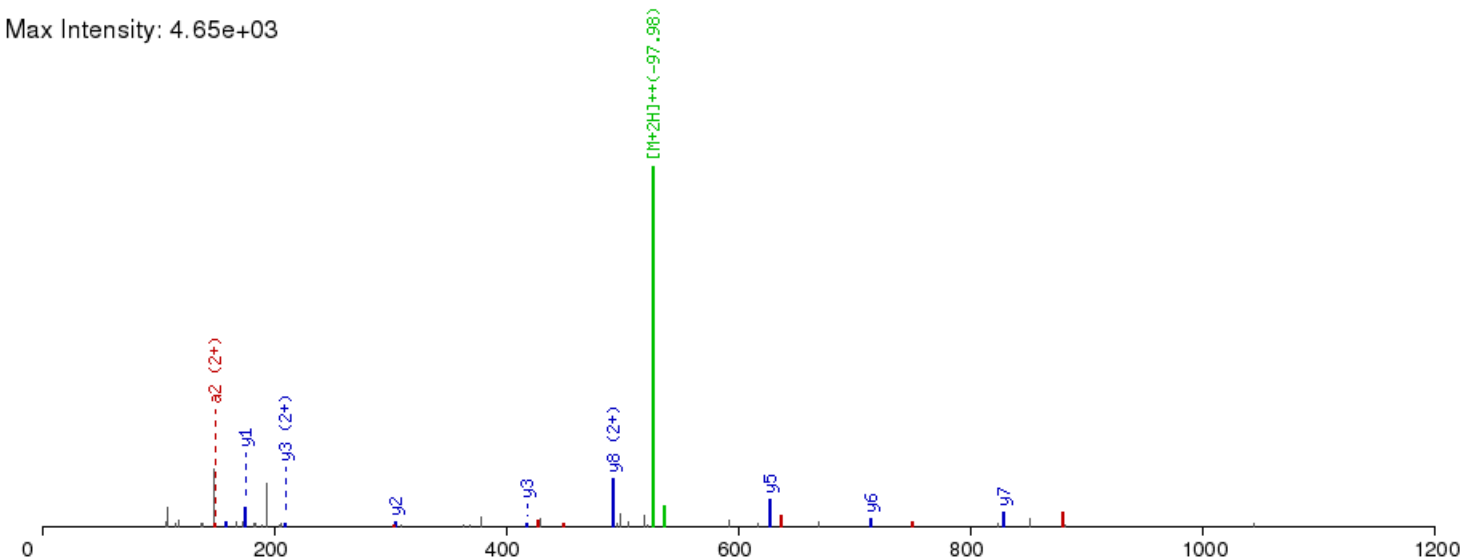
	I	H	R	A	S	D	P	G	L	P	A	E	E	P	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
a		223.16														a
a (2+)		112.08														a (2+)
b		251.15	407.25	478.29	645.29	760.31	857.37	914.39	1027.47	1124.52	1195.56	1324.60	1453.65	1550.70		b
b-79.97					565.32	680.35	777.40	834.42	947.51	1044.56	1115.60	1244.64	1373.68	1470.73		b-79.97
b-97.98					547.31	662.34	759.39	816.41	929.50	1026.55	1097.59	1226.63	1355.67	1452.72		b-97.98
b (2+)		126.08	204.13	239.65	323.15	380.66	429.19	457.70	514.24	562.77	598.28	662.81	727.33	775.85		b (2+)
b-79.97 (2+)					283.16	340.68	389.20	417.71	474.26	522.78	558.30	622.82	687.34	735.87		b-79.97 (2+)
b-97.98 (2+)					274.16	331.67	380.20	408.71	465.25	513.78	549.30	613.82	678.34	726.87		b-97.98 (2+)
b (3+)			136.42	160.10	215.77	254.11	286.46	305.47	343.16	375.51	399.19	442.21	485.22	517.57		b (3+)
b-79.97 (3+)					189.11	227.45	259.80	278.81	316.51	348.86	372.54	415.55	458.57	490.92		b-79.97 (3+)
b-97.98 (3+)					183.11	221.45	253.80	272.81	310.50	342.85	366.53	409.55	452.56	484.91		b-97.98 (3+)
y		1583.72	1446.66	1290.56	1219.52	1052.53	937.50	840.45	783.42	670.34	573.29	502.25	373.21	244.17	147.11	y
y-79.97		1503.76	1366.70	1210.60	1139.56											y-79.97
y-97.98		1485.74	1348.69	1192.58	1121.55											y-97.98
y (2+)		792.36	723.83	645.78	610.27	526.77	469.25	420.73	392.22	335.67	287.15	251.63	187.11	122.59	74.06	y (2+)
y-79.97 (2+)		752.38	683.85	605.80	570.28											y-79.97 (2+)
y-97.98 (2+)		743.38	674.85	596.80	561.28											y-97.98 (2+)
y (3+)		528.58	482.89													y (3+)
y-79.97 (3+)		501.92	456.24													y-79.97 (3+)
y-97.98 (3+)		495.92	450.23													y-97.98 (3+)
	I	H	R	A	S	D	P	G	L	P	A	E	E	P	K	
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

S(+79.97)RNSPLLER

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 576.282, Calc. m/z: 576.287
Data File: Pepmix3_HCD.RAW.-1, Scans: 1015 - 1015

Max Intensity: 4.65e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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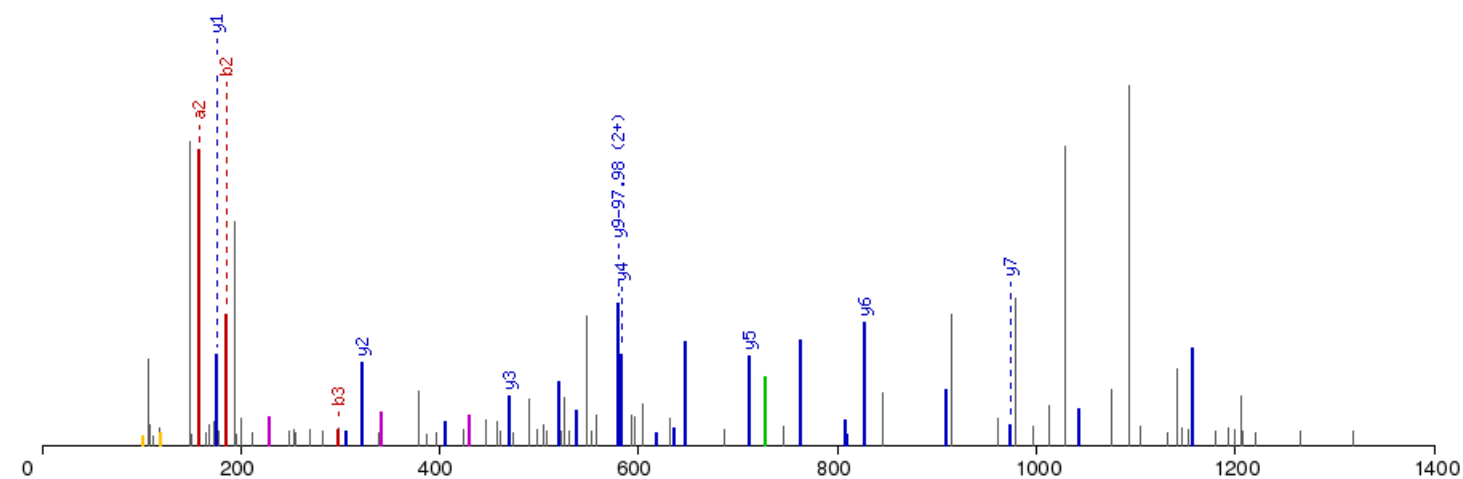
	S	R	N	S	P	L	L	E	R	
	1	2	3	4	5	6	7	8	9	
a		296.11								a
a-79.97		216.15								a-79.97
a-97.98		198.13								a-97.98
a (2+)		148.56								a (2+)
a-79.97 (2+)		108.58								a-79.97 (2+)
a-97.98 (2+)		99.57								a-97.98 (2+)
b		324.11	438.15	525.18	622.23	735.32	848.40	977.45		b
b-79.97		244.14	358.18	445.22	542.27	655.35	768.44	897.48		b-79.97
b-97.98		226.13	340.17	427.20	524.26	637.34	750.43	879.47		b-97.98
b (2+)		162.56	219.58	263.09	311.62	368.16	424.70	489.23		b (2+)
b-79.97 (2+)		122.57	179.60	223.11	271.64	328.18	384.72	449.24		b-79.97 (2+)
b-97.98 (2+)		113.57	170.59	214.11	262.63	319.17	375.72	440.24		b-97.98 (2+)
y		984.56	828.46	714.41	627.38	530.33	417.25	304.16	175.12	y
y (2+)		492.78	414.73	357.71	314.19	265.67	209.13	152.58	88.06	y (2+)
	S	R	N	S	P	L	L	E	R	
	9	8	7	6	5	4	3	2	1	

ALINS(+79.97)M(+15.99)DQNM(+15.99)FR

Identified in MSS769 2 x Oxidation (M) 1 x Phospho (ST)

Charge: 2, Exp. m/z: 776.321, Calc. m/z: 776.322
Data File: Pepmix4_HCD.RAW.-1, Scans: 1457 - 1457

Max Intensity: 8.66e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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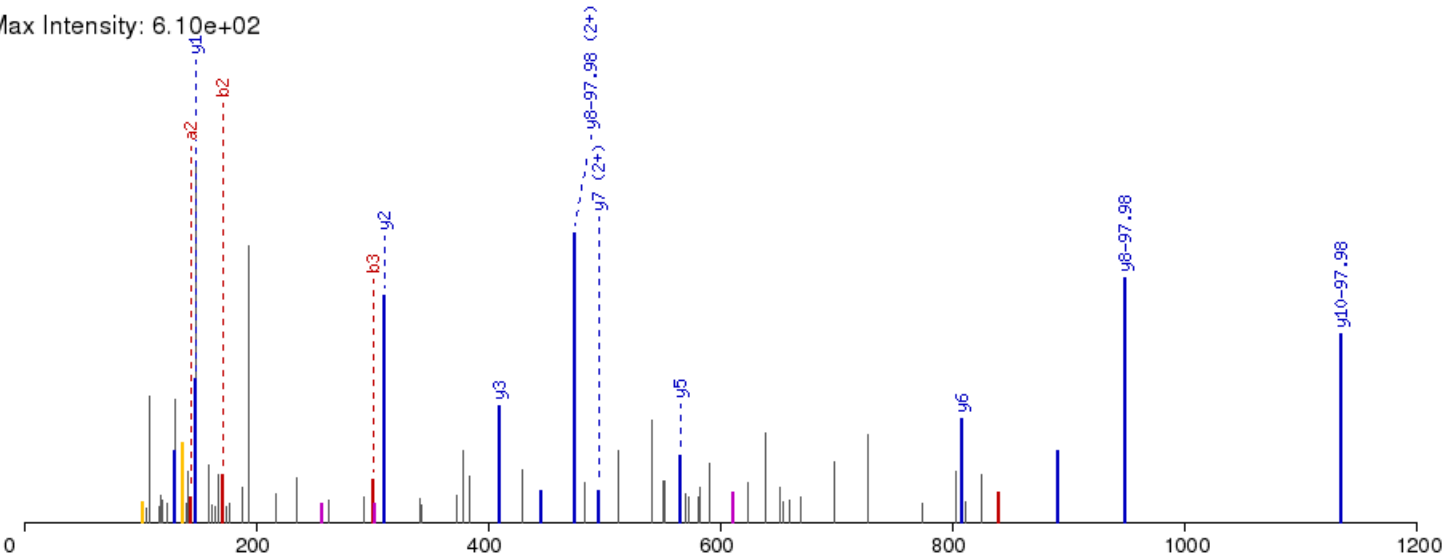
	A	L	I	N	S	M	D	Q	N	M	F	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		157.13											a
b		185.13	298.21	412.26	579.25	726.29	841.32	969.37	1083.42	1230.45	1377.52		b
b-15.99						710.29	825.32	953.38	1067.42	1214.46	1361.53		b-15.99
b-64.00						662.29	777.32	905.38	1019.42	1166.45	1313.52		b-64.00
b-79.97					499.29	646.32	761.35	889.41	1003.45	1150.49	1297.56		b-79.97
b-97.98					481.28	628.31	743.34	871.40	985.44	1132.48	1279.54		b-97.98
y		1480.60	1367.51	1254.43	1140.38	973.39	826.35	711.32	583.27	469.22	322.19	175.12	y
y-15.99		1464.60	1351.52	1238.43	1124.39	957.39	810.36	695.33	567.27	453.23			y-15.99
y-64.00		1416.60	1303.51	1190.43	1076.39	909.39	762.35	647.33	519.27	405.22			y-64.00
y-79.97		1400.63	1287.55	1174.46	1060.42								y-79.97
y-97.98		1382.62	1269.54	1156.45	1042.41								y-97.98
y (2+)		740.80	684.26	627.72	570.70	487.20	413.68	356.17	292.14	235.12	161.60	88.06	y (2+)
y-15.99 (2+)		732.80	676.26	619.72	562.70	479.20	405.68	348.17	284.14	227.12			y-15.99 (2+)
y-64.00 (2+)		708.80	652.26	595.72	538.70	455.20	381.68	324.17	260.14	203.12			y-64.00 (2+)
y-79.97 (2+)		700.82	644.28	587.73	530.71								y-79.97 (2+)
y-97.98 (2+)		691.81	635.27	578.73	521.71								y-97.98 (2+)
	A	L	I	N	S	M	D	Q	N	M	F	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

IGEGT(+79.97)Y(+79.97)GVVYK

Identified in MSS769 1 x Phospho (Y) 1 x Phospho (ST)

Charge: 2, Exp. m/z: 673.278, Calc. m/z: 673.282
Data File: Pepmix1_HCD.RAW.-1, Scans: 1410 - 1410

Max Intensity: 6.10e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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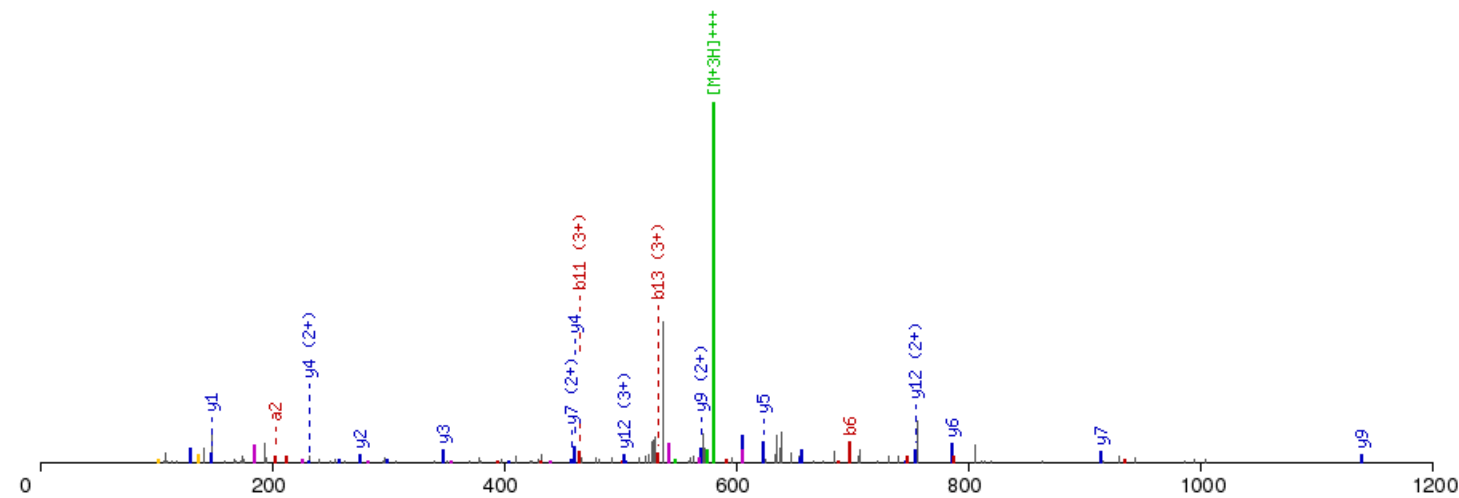
	I	G	E	G	T	Y	G	V	V	Y	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		143.12										a
b		171.11	300.16	357.18	538.19	781.22	838.24	937.31	1036.38	1199.44		b
b-79.97					458.22	701.25	758.28	857.34	956.41	1119.48		b-79.97
b-97.98					440.21	683.24	740.27	839.33	938.40	1101.47		b-97.98
y		1232.46	1175.44	1046.40	989.38	808.36	565.33	508.31	409.24	310.18	147.11	y
y-79.97		1152.50	1095.48	966.43	909.41	728.40						y-79.97
y-97.98		1134.49	1077.47	948.42	891.40							y-97.98
y (2+)		616.74	588.22	523.70	495.19	404.69	283.17	254.66	205.13	155.59	74.06	y (2+)
y-79.97 (2+)		576.75	548.24	483.72	455.21	364.70						y-79.97 (2+)
y-97.98 (2+)		567.75	539.24	474.71	446.20							y-97.98 (2+)
	I	G	E	G	T	Y	G	V	V	Y	K	
	11	10	9	8	7	6	5	4	3	2	1	

ETT(+79.97)TSPKKYYLAEK

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 580.282, Calc. m/z: 580.284
Data File: Pepmix2_HCD.RAW.-1, Scans: 1170 - 1170

Max Intensity: 1.34e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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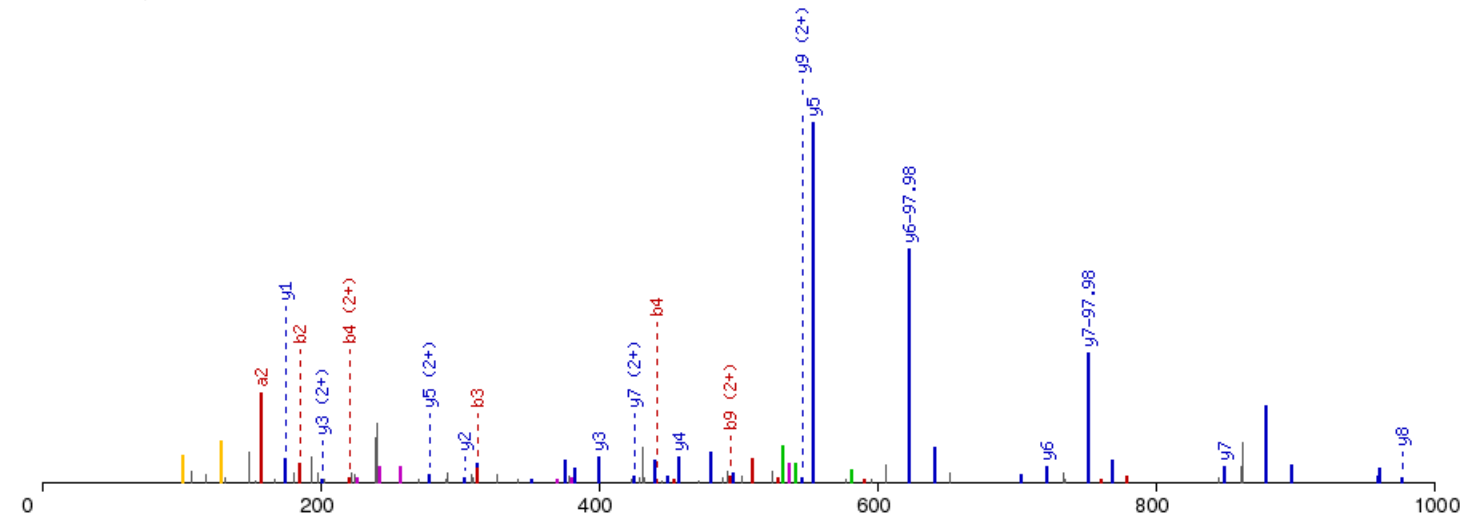
	E	T	T	T	S	P	K	K	Y	Y	L	A	E	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		203.10													a
b		231.10	412.11	513.16	600.19	697.24	825.34	953.43	1116.50	1279.56	1392.64	1463.68	1592.72		b
b-79.97			332.15	433.19	520.22	617.28	745.37	873.47	1036.53	1199.59	1312.68	1383.72	1512.76		b-79.97
b-97.98			314.13	415.18	502.21	599.27	727.36	855.46	1018.52	1181.58	1294.67	1365.70	1494.75		b-97.98
b (2+)							413.17	477.22	558.75	640.28	696.83	732.34	796.87		b (2+)
b-79.97 (2+)							373.19	437.24	518.77	600.30	656.84	692.36	756.88		b-79.97 (2+)
b-97.98 (2+)							364.18	428.23	509.76	591.30	647.84	683.36	747.88		b-97.98 (2+)
b (3+)								318.48	372.84	427.19	464.89	488.57	531.58		b (3+)
b-79.97 (3+)								291.83	346.18	400.54	438.23	461.91	504.92		b-79.97 (3+)
b-97.98 (3+)								285.82	340.18	394.53	432.23	455.91	498.92		b-97.98 (3+)
y		1609.79	1508.74	1327.73	1226.68	1139.65	1042.59	914.50	786.40	623.34	460.28	347.19	276.16	147.11	y
y-79.97		1529.82	1428.77												y-79.97
y-97.98		1511.81	1410.76												y-97.98
y (2+)		805.40	754.87	664.37	613.84	570.33	521.80	457.75	393.71	312.17	230.64	174.10	138.58	74.06	y (2+)
y-79.97 (2+)		765.41	714.89												y-79.97 (2+)
y-97.98 (2+)		756.41	705.88												y-97.98 (2+)
y (3+)		537.27	503.58	443.25	409.56	380.55	348.20	305.50							y (3+)
y-79.97 (3+)		510.61	476.93												y-79.97 (3+)
y-97.98 (3+)		504.61	470.93												y-97.98 (3+)
	E	T	T	T	S	P	K	K	Y	Y	L	A	E	K	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

ALQKS(+79.97)PGPQR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 581.292, Calc. m/z: 581.297
Data File: Pepmix2_HCD.RAW.-1, Scans: 611 - 611

Max Intensity: 1.12e+05



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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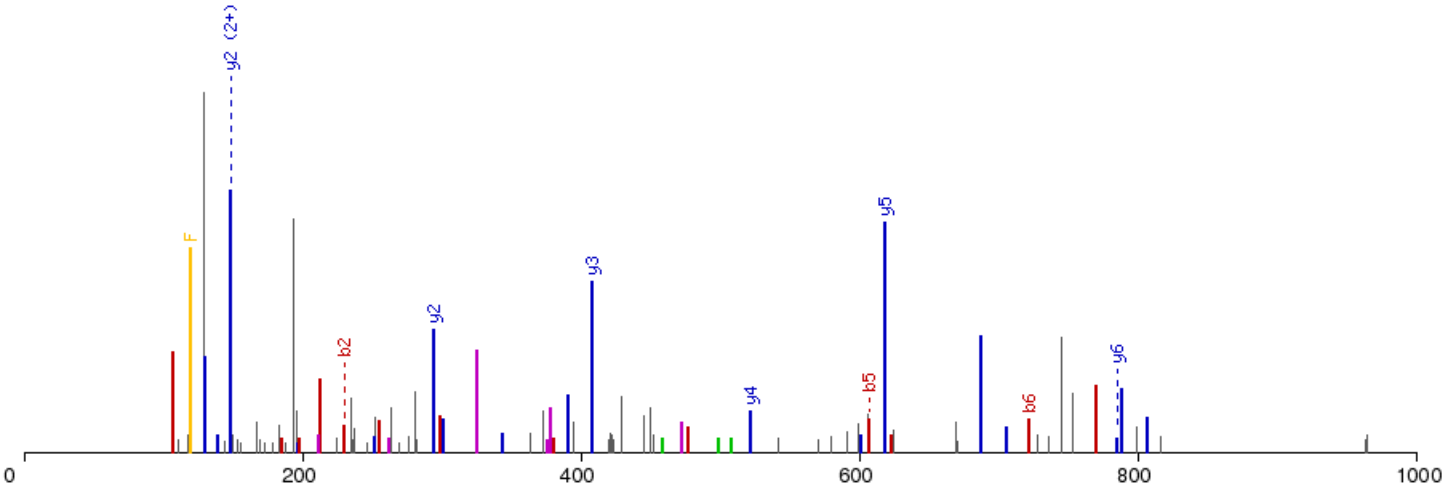
	A	L	Q	K	S	P	G	P	Q	R	
	1	2	3	4	5	6	7	8	9	10	
a		157.13									a
b		185.13	313.19	441.28	608.28	705.33	762.35	859.41	987.47		b
b-79.97					528.31	625.37	682.39	779.44	907.50		b-79.97
b-97.98					510.30	607.36	664.38	761.43	889.49		b-97.98
b (2+)				221.14	304.64	353.17	381.68	430.21	494.24		b (2+)
b-79.97 (2+)					264.66	313.19	341.70	390.22	454.25		b-79.97 (2+)
b-97.98 (2+)					255.66	304.18	332.69	381.22	445.25		b-97.98 (2+)
y		1090.54	977.46	849.40	721.30	554.30	457.25	400.23	303.18	175.12	y
y-79.97		1010.57	897.49	769.43	641.34						y-79.97
y-97.98		992.56	879.48	751.42	623.33						y-97.98
y (2+)		545.77	489.23	425.20	361.16	277.66	229.13	200.62	152.09	88.06	y (2+)
y-79.97 (2+)		505.79	449.25	385.22	321.17						y-79.97 (2+)
y-97.98 (2+)		496.79	440.24	376.21	312.17						y-97.98 (2+)
	A	L	Q	K	S	P	G	P	Q	R	
	10	9	8	7	6	5	4	3	2	1	

KTS(+79.97)PLNFK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 507.755, Calc. m/z: 507.757
Data File: Pepmix1_HCD.RAW.-1, Scans: 1213 - 1213

Max Intensity: 9.80e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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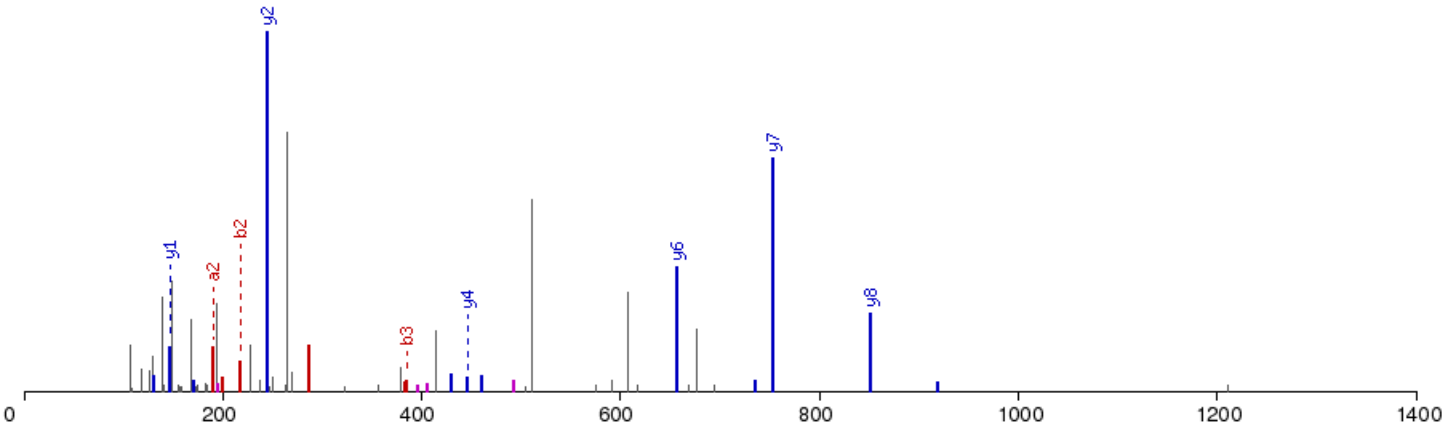
	K	T	S	P	L	N	F	K	
	1	2	3	4	5	6	7	8	
a		202.16							a
a (2+)		101.58							a (2+)
b		230.15	397.15	494.20	607.29	721.33	868.40		b
b-79.97			317.18	414.23	527.32	641.36	788.43		b-79.97
b-97.98			299.17	396.22	509.31	623.35	770.42		b-97.98
b (2+)		115.58	199.08	247.60	304.15	361.17	434.70		b (2+)
b-79.97 (2+)			159.09	207.62	264.16	321.18	394.72		b-79.97 (2+)
b-97.98 (2+)			150.09	198.62	255.16	312.18	385.71		b-97.98 (2+)
y		886.41	785.36	618.36	521.31	408.22	294.18	147.11	y
y-79.97		806.44	705.39						y-79.97
y-97.98		788.43	687.38						y-97.98
y (2+)		443.71	393.18	309.68	261.16	204.62	147.59	74.06	y (2+)
y-79.97 (2+)		403.72	353.20						y-79.97 (2+)
y-97.98 (2+)		394.72	344.19						y-97.98 (2+)
	K	T	S	P	L	N	F	K	
	8	7	6	5	4	3	2	1	

SES(+79.97)PPPLSDPK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 617.274, Calc. m/z: 617.277
Data File: Pepmix1_HCD.RAW.-1, Scans: 1130 - 1130

Max Intensity: 2.18e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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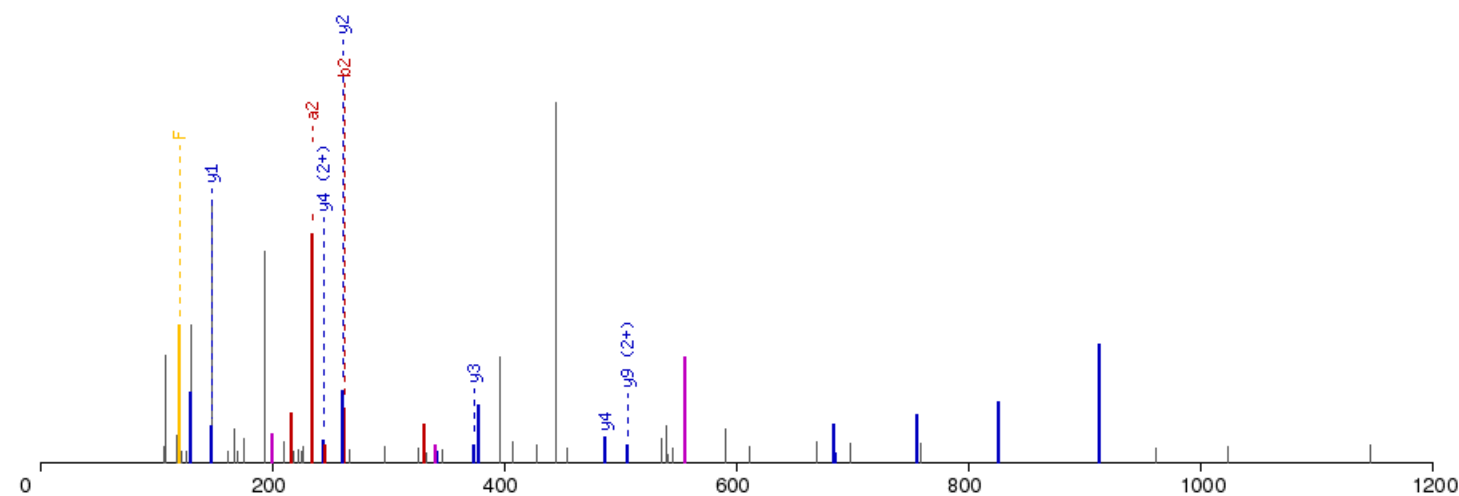
	S	E	S	P	P	P	L	S	D	P	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		189.09										a
b		217.08	384.08	481.13	578.19	675.24	788.32	875.35	990.38	1087.43		b
b-79.97			304.11	401.17	498.22	595.27	708.36	795.39	910.42	1007.47		b-79.97
b-97.98			286.10	383.16	480.21	577.26	690.35	777.38	892.40	989.46		b-97.98
y		1146.51	1017.47	850.47	753.41	656.36	559.31	446.22	359.19	244.17	147.11	y
y-79.97		1066.54	937.50									y-79.97
y-97.98		1048.53	919.49									y-97.98
y (2+)		573.76	509.24	425.74	377.21	328.68	280.16	223.62	180.10	122.59	74.06	y (2+)
y-79.97 (2+)		533.77	469.25									y-79.97 (2+)
y-97.98 (2+)		524.77	460.25									y-97.98 (2+)
	S	E	S	P	P	P	L	S	D	P	K	
	11	10	9	8	7	6	5	4	3	2	1	

NFS(+79.97)AAKSLLNK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 636.822, Calc. m/z: 636.827
Data File: Pepmix1_HCD.RAW.-1, Scans: 1490 - 1490

Max Intensity: 8.72e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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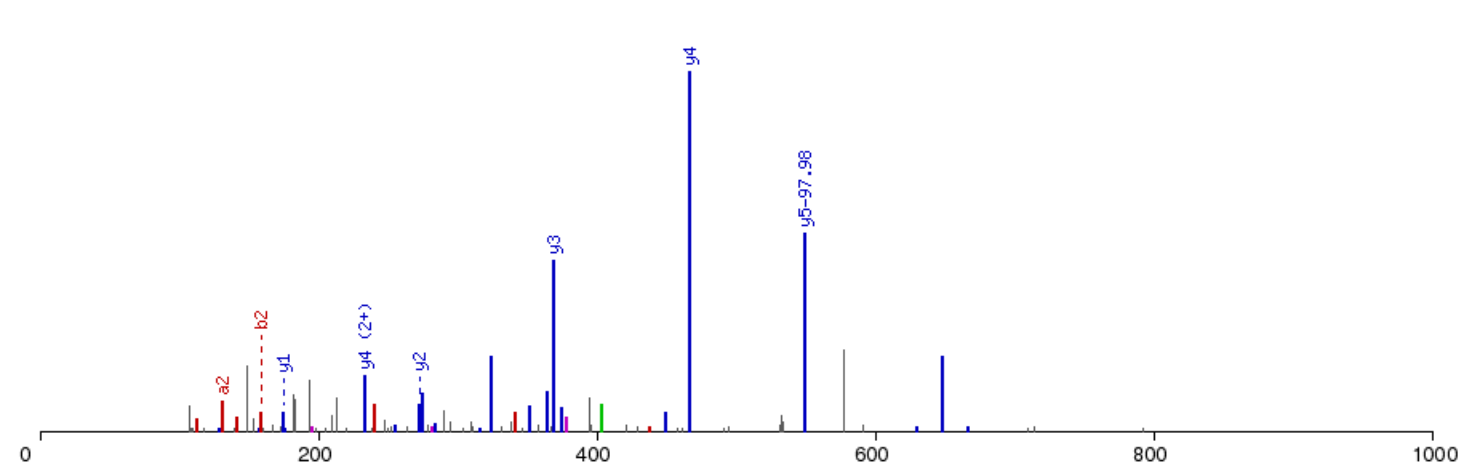
	N	F	S	A	A	K	S	L	L	N	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		234.12										a
b		262.12	429.12	500.15	571.19	699.29	786.32	899.40	1012.49	1126.53		b
b-79.97			349.15	420.19	491.22	619.32	706.35	819.44	932.52	1046.56		b-79.97
b-97.98			331.14	402.18	473.21	601.31	688.34	801.43	914.51	1028.55		b-97.98
b (2+)						350.15	393.66	450.20	506.75	563.77		b (2+)
b-79.97 (2+)						310.16	353.68	410.22	466.76	523.79		b-79.97 (2+)
b-97.98 (2+)						301.16	344.67	401.22	457.76	514.78		b-97.98 (2+)
y		1158.59	1011.52	844.53	773.49	702.45	574.36	487.32	374.24	261.16	147.11	y
y-79.97		1078.63	931.56									y-79.97
y-97.98		1060.61	913.55									y-97.98
y (2+)		579.80	506.27	422.77	387.25	351.73	287.68	244.17	187.62	131.08	74.06	y (2+)
y-79.97 (2+)		539.82	466.28									y-79.97 (2+)
y-97.98 (2+)		530.81	457.28									y-97.98 (2+)
	N	F	S	A	A	K	S	L	L	N	K	
	11	10	9	8	7	6	5	4	3	2	1	

GTVT(+79.97)PPPR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 452.718, Calc. m/z: 452.722
Data File: Pepmix3_HCD.RAW.-1, Scans: 814 - 814

Max Intensity: 1.51e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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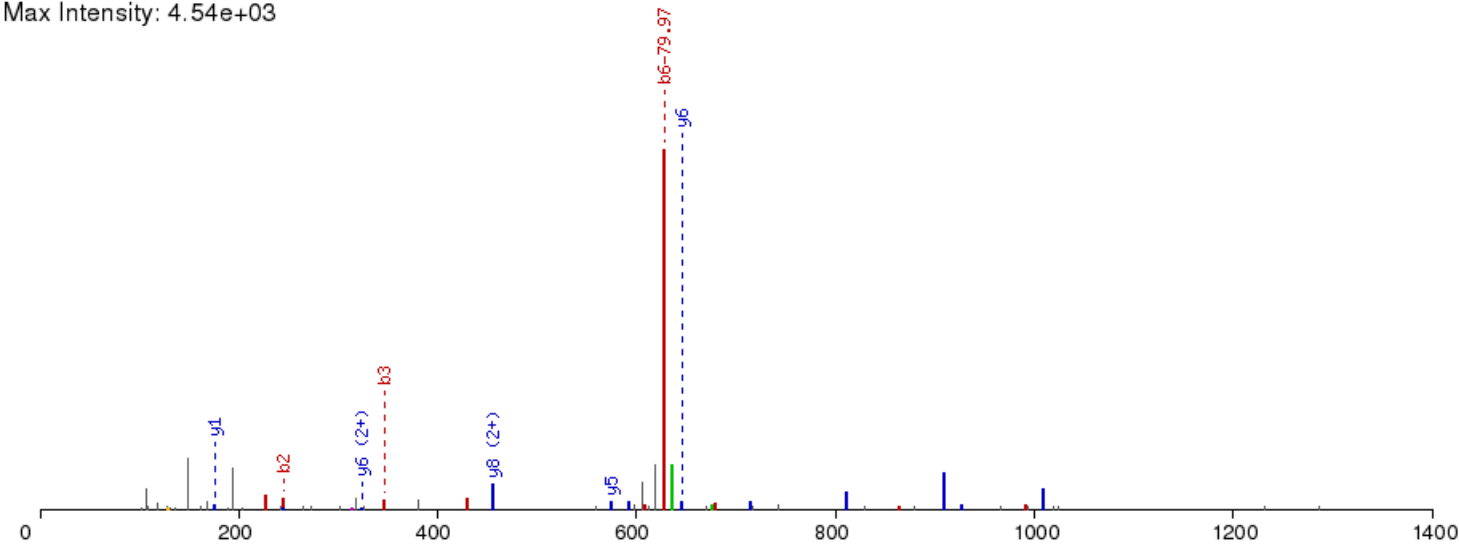
	G	T	V	T	P	P	P	R	
	1	2	3	4	5	6	7	8	
a		131.08							a
b		159.08	258.14	439.16	536.21	633.26	730.32		b
b-79.97				359.19	456.25	553.30	650.35		b-79.97
b-97.98				341.18	438.23	535.29	632.34		b-97.98
y		847.41	746.36	647.29	466.28	369.22	272.17	175.12	y
y-79.97		767.44	666.39	567.32					y-79.97
y-97.98		749.43	648.38	549.31					y-97.98
y (2+)		424.21	373.68	324.15	233.64	185.12	136.59	88.06	y (2+)
y-79.97 (2+)		384.22	333.70	284.17					y-79.97 (2+)
y-97.98 (2+)		375.22	324.70	275.16					y-97.98 (2+)
	G	T	V	T	P	P	P	R	
	8	7	6	5	4	3	2	1	

SRTPPS(+79.97)APSQSR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 675.812, Calc. m/z: 675.817
Data File: Pepmix5_HCD.RAW.-1, Scans: 666 - 666

Max Intensity: 4.54e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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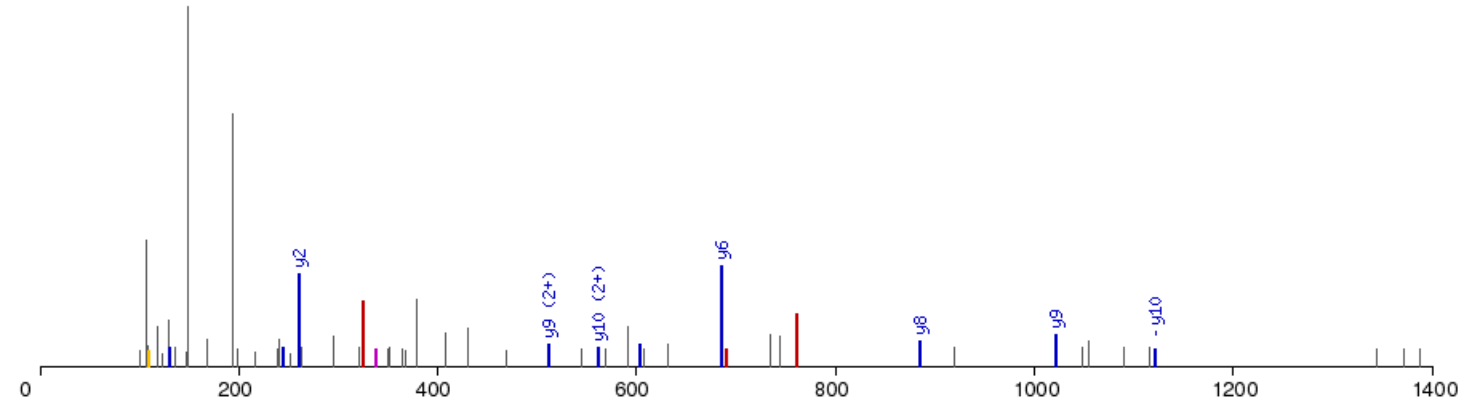
	S	R	T	P	P	S	A	P	S	Q	S	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		216.15											a
a (2+)		108.58											a (2+)
b		244.14	345.19	442.24	539.29	706.29	777.33	874.38	961.41	1089.47	1176.50		b
b-79.97						626.33	697.36	794.42	881.45	1009.51	1096.54		b-79.97
b-97.98						608.32	679.35	776.40	863.44	991.50	1078.53		b-97.98
b (2+)		122.57	173.10	221.62	270.15	353.65	389.17	437.69	481.21	545.24	588.76		b (2+)
b-79.97 (2+)						313.67	349.19	397.71	441.23	505.26	548.77		b-79.97 (2+)
b-97.98 (2+)						304.66	340.18	388.71	432.22	496.25	539.77		b-97.98 (2+)
y		1263.58	1107.48	1006.44	909.38	812.33	645.33	574.29	477.24	390.21	262.15	175.12	y
y-79.97		1183.62	1027.52	926.47	829.42	732.36							y-79.97
y-97.98		1165.61	1009.51	908.46	811.41	714.35							y-97.98
y (2+)		632.30	554.25	503.72	455.19	406.67	323.17	287.65	239.12	195.61	131.58	88.06	y (2+)
y-79.97 (2+)		592.31	514.26	463.74	415.21	366.69							y-79.97 (2+)
y-97.98 (2+)		583.31	505.26	454.73	406.21	357.68							y-97.98 (2+)
	S	R	T	P	P	S	A	P	S	Q	S	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

LQT(+79.97)VHSIPLTINK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 772.417, Calc. m/z: 772.417
Data File: Pepmix1_HCD.RAW.-1, Scans: 1644 - 1644

Max Intensity: 6.91e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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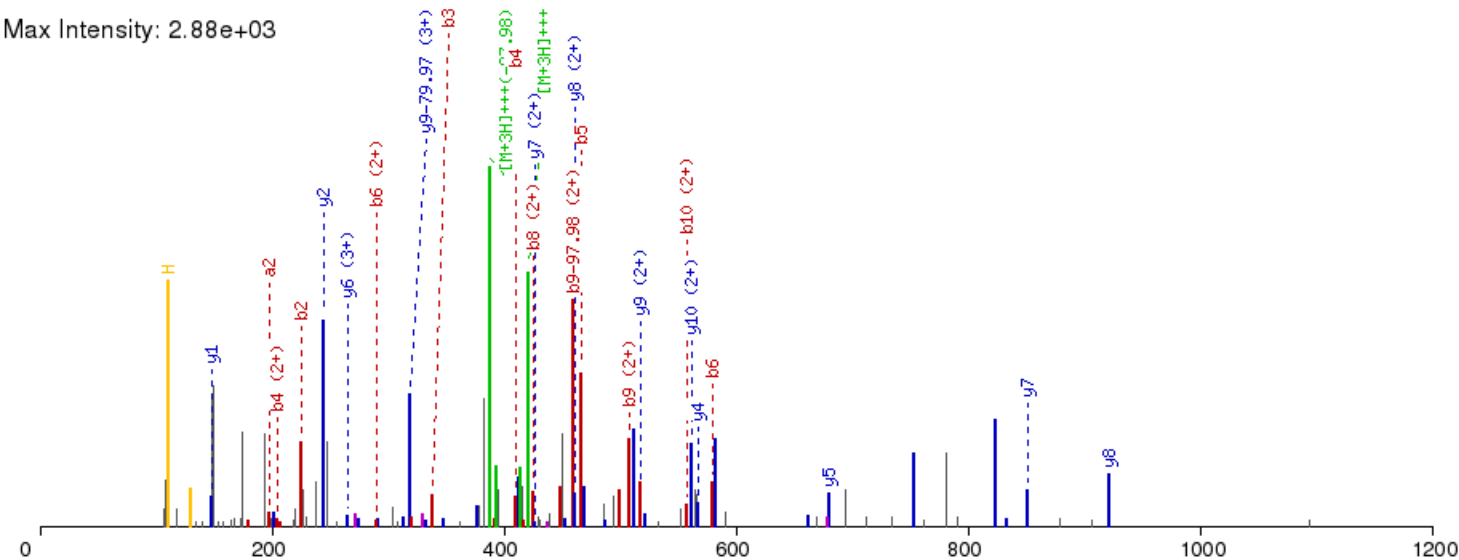
	L	Q	T	V	H	S	I	P	L	T	I	N	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	
a		214.16												a
b		242.15	423.16	522.23	659.29	746.32	859.41	956.46	1069.54	1170.59	1283.68	1397.72		b
b-79.97			343.20	442.27	579.32	666.36	779.44	876.49	989.58	1090.63	1203.71	1317.75		b-79.97
b-97.98			325.19	424.26	561.31	648.35	761.43	858.48	971.57	1072.61	1185.70	1299.74		b-97.98
b(2+)					330.15	373.67	430.21	478.73	535.28	585.80	642.34	699.36		b(2+)
b-79.97(2+)					290.17	333.68	390.22	438.75	495.29	545.82	602.36	659.38		b-79.97(2+)
b-97.98(2+)					281.16	324.68	381.22	429.75	486.29	536.81	593.35	650.37		b-97.98(2+)
y		1430.74	1302.68	1121.67	1022.60	885.54	798.51	685.42	588.37	475.29	374.24	261.16	147.11	y
y-79.97		1350.77	1222.72											y-79.97
y-97.98		1332.76	1204.70											y-97.98
y(2+)		715.87	651.84	561.34	511.80	443.27	399.76	343.22	294.69	238.15	187.62	131.08	74.06	y(2+)
y-79.97(2+)		675.89	611.86											y-79.97(2+)
y-97.98(2+)		666.89	602.86											y-97.98(2+)
	L	Q	T	V	H	S	I	P	L	T	I	N	K	
	13	12	11	10	9	8	7	6	5	4	3	2	1	

HSIAGIIRS(+79.97)PK

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 420.227, Calc. m/z: 420.231
Data File: Pepmix1_HCD.RAW.-1, Scans: 1241 - 1241

Max Intensity: 2.88e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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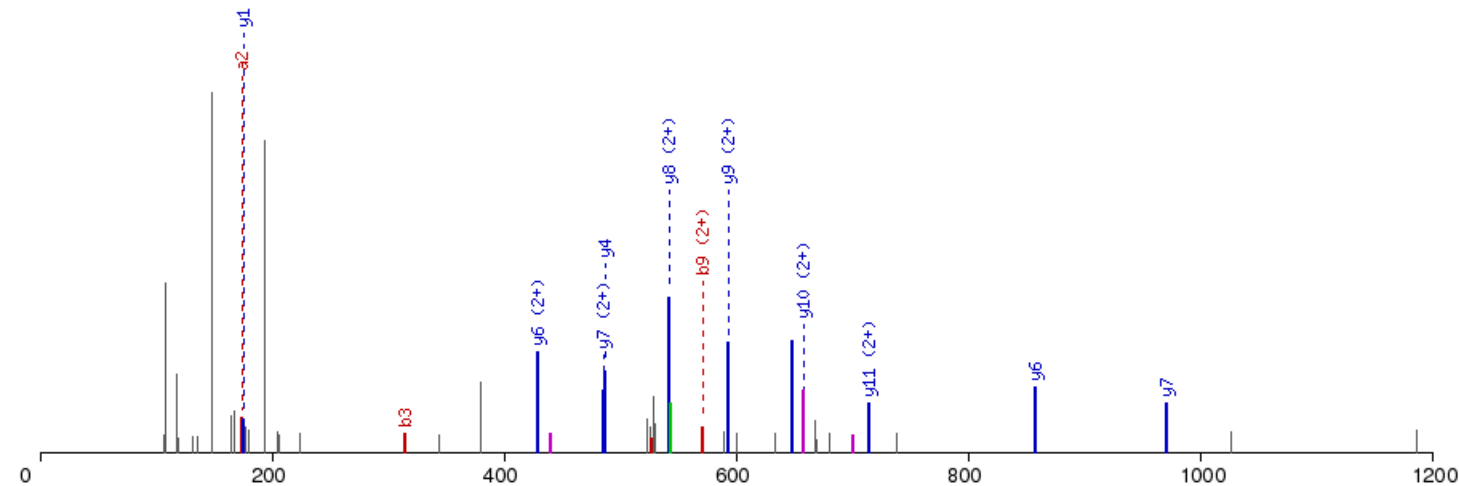
	H	S	I	A	G	I	I	R	S	P	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		197.10										a
a (2+)		99.06										a (2+)
b		225.10	338.18	409.22	466.24	579.32	692.41	848.51	1015.51	1112.56		b
b-79.97									935.54	1032.59		b-79.97
b-97.98									917.53	1014.58		b-97.98
b (2+)		113.05	169.59	205.11	233.62	290.17	346.71	424.76	508.26	556.78		b (2+)
b-79.97 (2+)									468.27	516.80		b-79.97 (2+)
b-97.98 (2+)									459.27	507.80		b-97.98 (2+)
b (3+)								283.51	339.17	371.53		b (3+)
b-79.97 (3+)									312.52	344.87		b-79.97 (3+)
b-97.98 (3+)									306.52	338.87		b-97.98 (3+)
y		1121.61	1034.58	921.49	850.45	793.43	680.35	567.27	411.16	244.17	147.11	y
y-79.97		1041.64	954.61	841.53	770.49	713.47	600.38	487.30	331.20			y-79.97
y-97.98		1023.63	936.60	823.51	752.48	695.46	582.37	469.29	313.19			y-97.98
y (2+)		561.31	517.79	461.25	425.73	397.22	340.68	284.14	206.09	122.59	74.06	y (2+)
y-79.97 (2+)		521.32	477.81	421.27	385.75	357.24	300.70	244.15	166.10			y-79.97 (2+)
y-97.98 (2+)		512.32	468.80	412.26	376.74	348.23	291.69	235.15	157.10			y-97.98 (2+)
y (3+)		374.54	345.53	307.84	284.16	265.15	227.45	189.76				y (3+)
y-79.97 (3+)		347.89	318.87	281.18	257.50	238.49	200.80	163.10				y-79.97 (3+)
y-97.98 (3+)		341.88	312.87	275.18	251.50	232.49	194.80	157.10				y-97.98 (3+)
	H	S	I	A	G	I	I	R	S	P	K	
	11	10	9	8	7	6	5	4	3	2	1	

NSLETLLY(+79.97)KPVDR

Identified in MSS769 1 x Phospho (Y)

Charge: 3, Exp. m/z: 543.275, Calc. m/z: 543.277
Data File: Pepmix4_HCD.RAW.-1, Scans: 1736 - 1736

Max Intensity: 6.18e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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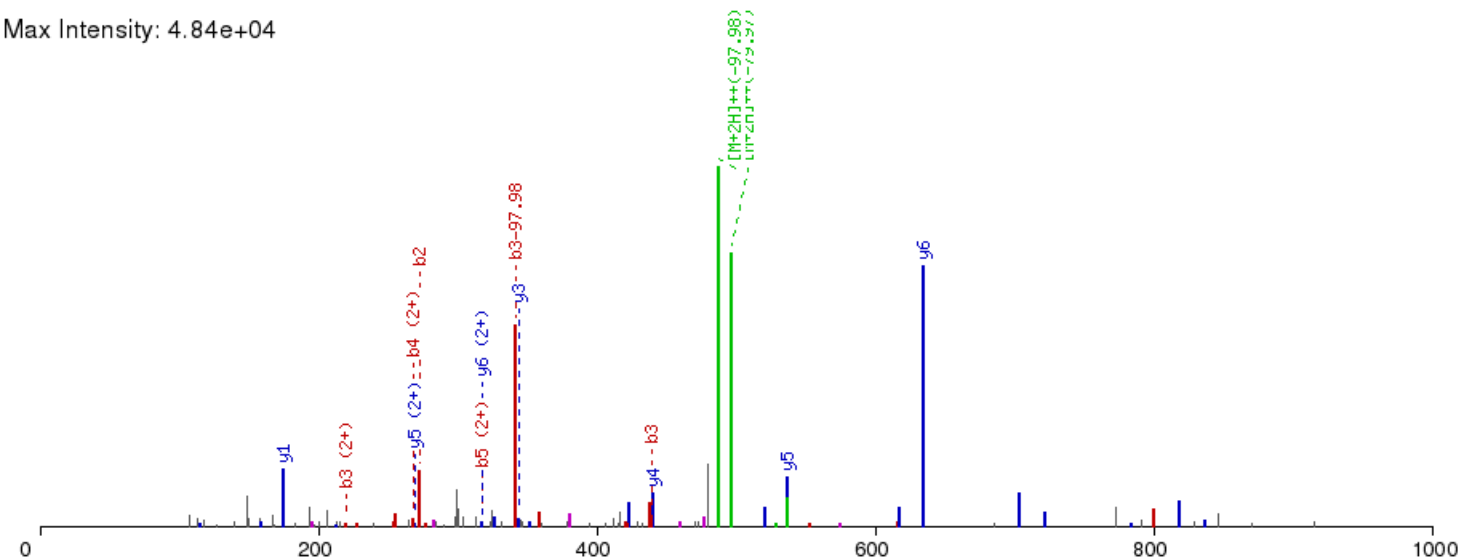
	N	S	L	E	T	L	L	Y	K	P	V	D	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	
a		174.09												a
b		202.08	315.17	444.21	545.26	658.34	771.42	1014.45	1142.55	1239.60	1338.67	1453.70		b
b-79.97								934.49	1062.58	1159.64	1258.70	1373.73		b-79.97
b (2+)									571.78	620.30	669.84	727.35		b (2+)
b-79.97 (2+)									531.80	580.32	629.86	687.37		b-79.97 (2+)
y		1513.77	1426.73	1313.65	1184.61	1083.56	970.48	857.39	614.36	486.27	389.21	290.15	175.12	y
y-79.97		1433.80	1346.77	1233.68	1104.64	1003.59	890.51	777.43						y-79.97
y (2+)		757.39	713.87	657.33	592.81	542.28	485.74	429.20	307.68	243.64	195.11	145.58	88.06	y (2+)
y-79.97 (2+)		717.40	673.89	617.35	552.82	502.30	445.76	389.22						y-79.97 (2+)
y (3+)		505.26	476.25	438.55	395.54	361.86	324.16	286.47	205.46					y (3+)
y-79.97 (3+)		478.60	449.59	411.90	368.89	335.20	297.51	259.81						y-79.97 (3+)
	N	S	L	E	T	L	L	Y	K	P	V	D	R	
	13	12	11	10	9	8	7	6	5	4	3	2	1	

RDS(+79.97)PPPPAR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 536.750, Calc. m/z: 536.752
Data File: Pepmix2_HCD.RAW.-1, Scans: 593 - 593

Max Intensity: 4.84e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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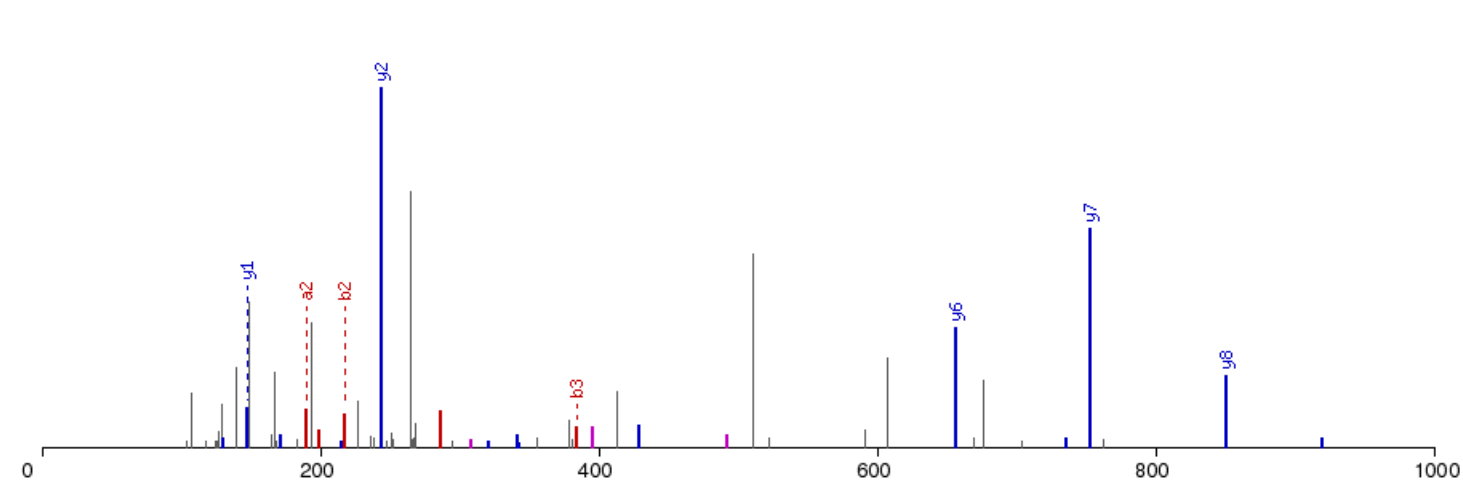
	R	D	S	P	P	P	P	A	R	
	1	2	3	4	5	6	7	8	9	
a		244.14								a
a (2+)		122.57								a (2+)
b		272.14	439.13	536.19	633.24	730.29	827.34	898.38		b
b-79.97			359.17	456.22	553.27	650.33	747.38	818.42		b-79.97
b-97.98			341.16	438.21	535.26	632.32	729.37	800.40		b-97.98
b (2+)		136.57	220.07	268.60	317.12	365.65	414.18	449.69		b (2+)
b-79.97 (2+)			180.09	228.61	277.14	325.67	374.19	409.71		b-79.97 (2+)
b-97.98 (2+)			171.08	219.61	268.13	316.66	365.19	400.71		b-97.98 (2+)
y		916.39	801.37	634.37	537.31	440.26	343.21	246.16	175.12	y
y-79.97		836.43	721.40							y-79.97
y-97.98		818.42	703.39							y-97.98
y (2+)		458.70	401.19	317.69	269.16	220.63	172.11	123.58	88.06	y (2+)
y-79.97 (2+)		418.72	361.20							y-79.97 (2+)
y-97.98 (2+)		409.71	352.20							y-97.98 (2+)
	R	D	S	P	P	P	P	A	R	
	9	8	7	6	5	4	3	2	1	

SES(+79.97)PPPLSDPK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 617.274, Calc. m/z: 617.277
Data File: Pepmix1_HCD.RAW.-1, Scans: 1143 - 1143

Max Intensity: 1.63e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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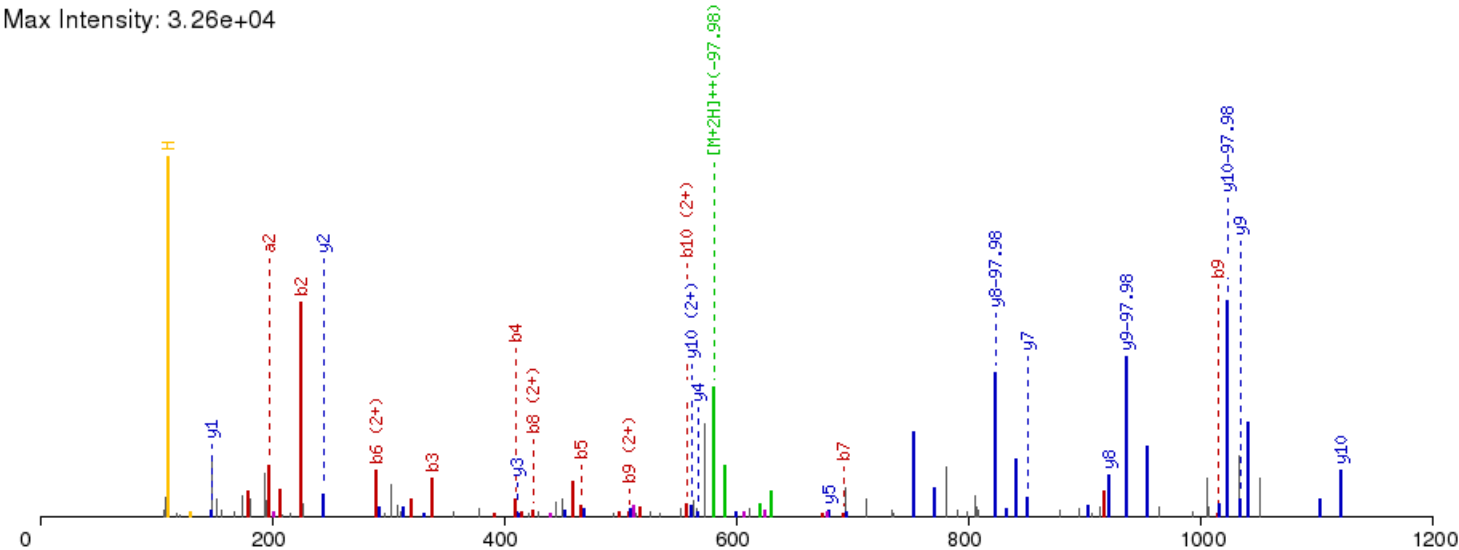
	S	E	S	P	P	P	L	S	D	P	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		189.09										a
b		217.08	384.08	481.13	578.19	675.24	788.32	875.35	990.38	1087.43		b
b-79.97			304.11	401.17	498.22	595.27	708.36	795.39	910.42	1007.47		b-79.97
b-97.98			286.10	383.16	480.21	577.26	690.35	777.38	892.40	989.46		b-97.98
y		1146.51	1017.47	850.47	753.41	656.36	559.31	446.22	359.19	244.17	147.11	y
y-79.97		1066.54	937.50									y-79.97
y-97.98		1048.53	919.49									y-97.98
y (2+)		573.76	509.24	425.74	377.21	328.68	280.16	223.62	180.10	122.59	74.06	y (2+)
y-79.97 (2+)		533.77	469.25									y-79.97 (2+)
y-97.98 (2+)		524.77	460.25									y-97.98 (2+)
	S	E	S	P	P	P	L	S	D	P	K	
	11	10	9	8	7	6	5	4	3	2	1	

HSIAGIIRS(+79.97)PK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 629.837, Calc. m/z: 629.842
Data File: Pepmix1_HCD.RAW.-1, Scans: 1218 - 1218

Max Intensity: 3.26e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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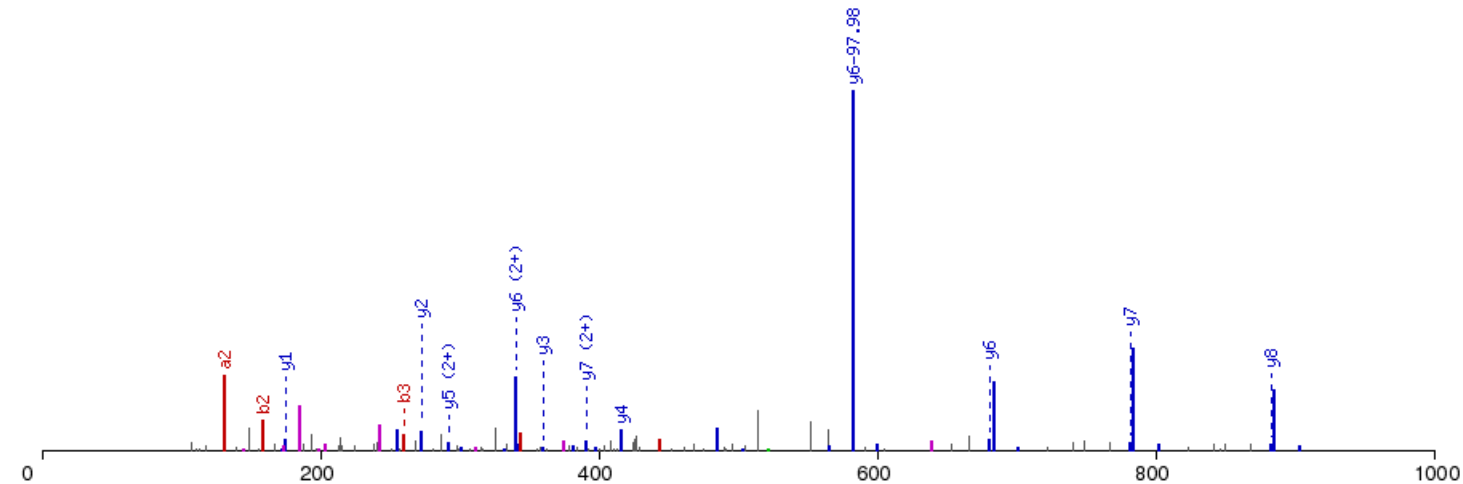
	H	S	I	A	G	I	I	R	S	P	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		197.10										a
a (2+)		99.06										a (2+)
b		225.10	338.18	409.22	466.24	579.32	692.41	848.51	1015.51	1112.56		b
b-79.97									935.54	1032.59		b-79.97
b-97.98									917.53	1014.58		b-97.98
b (2+)		113.05	169.59	205.11	233.62	290.17	346.71	424.76	508.26	556.78		b (2+)
b-79.97 (2+)									468.27	516.80		b-79.97 (2+)
b-97.98 (2+)									459.27	507.80		b-97.98 (2+)
y		1121.61	1034.58	921.49	850.45	793.43	680.35	567.27	411.16	244.17	147.11	y
y-79.97		1041.64	954.61	841.53	770.49	713.47	600.38	487.30	331.20			y-79.97
y-97.98		1023.63	936.60	823.51	752.48	695.46	582.37	469.29	313.19			y-97.98
y (2+)		561.31	517.79	461.25	425.73	397.22	340.68	284.14	206.09	122.59	74.06	y (2+)
y-79.97 (2+)		521.32	477.81	421.27	385.75	357.24	300.70	244.15	166.10			y-79.97 (2+)
y-97.98 (2+)		512.32	468.80	412.26	376.74	348.23	291.69	235.15	157.10			y-97.98 (2+)
	H	S	I	A	G	I	I	R	S	P	K	
	11	10	9	8	7	6	5	4	3	2	1	

SATTTPS(+79.97)GSPR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 571.248, Calc. m/z: 571.252
Data File: Pepmix2_HCD.RAW.-1, Scans: 665 - 665

Max Intensity: 2.75e+05



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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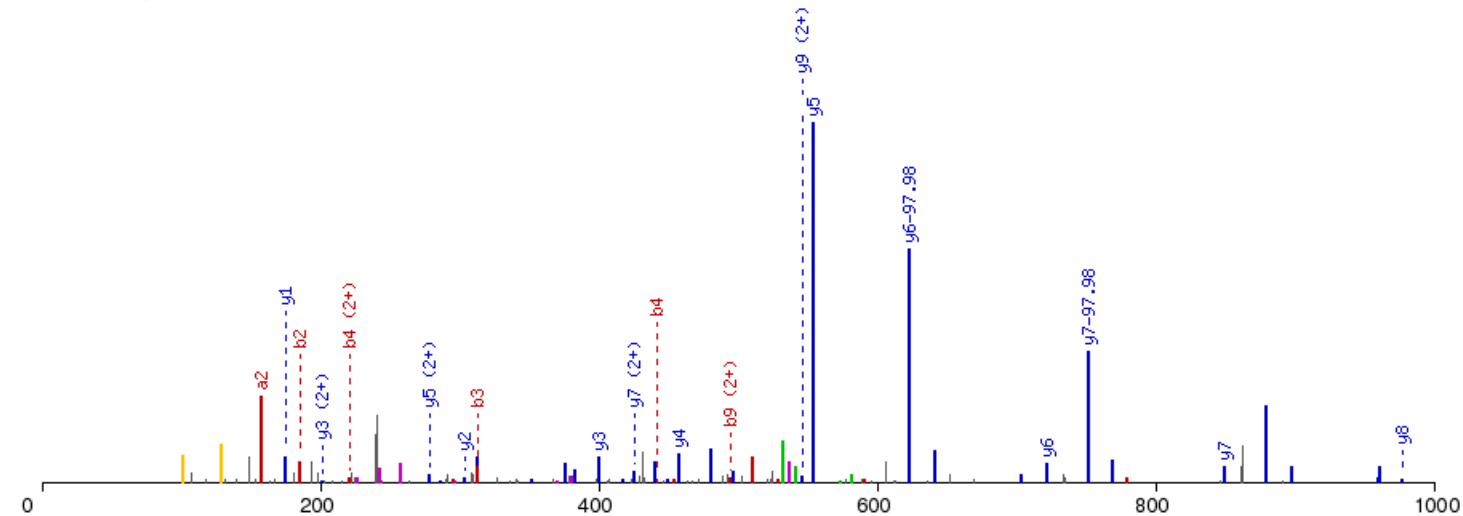
	S	A	T	T	T	P	S	G	S	P	R	
	1	2	3	4	5	6	7	8	9	10	11	
a		131.08										a
b		159.08	260.12	361.17	462.22	559.27	726.27	783.29	870.32	967.38		b
b-79.97							646.30	703.33	790.36	887.41		b-79.97
b-97.98							628.29	685.32	772.35	869.40		b-97.98
y		1054.46	983.42	882.37	781.32	680.28	583.22	416.23	359.20	272.17	175.12	y
y-79.97		974.49	903.45	802.41	701.36	600.31	503.26					y-79.97
y-97.98		956.48	885.44	784.39	683.35	582.30	485.25					y-97.98
y (2+)		527.73	492.21	441.69	391.17	340.64	292.12	208.62	180.11	136.59	88.06	y (2+)
y-79.97 (2+)		487.75	452.23	401.71	351.18	300.66	252.13					y-79.97 (2+)
y-97.98 (2+)		478.74	443.22	392.70	342.18	291.65	243.13					y-97.98 (2+)
	S	A	T	T	T	P	S	G	S	P	R	
	11	10	9	8	7	6	5	4	3	2	1	

ALQKS(+79.97)PGPQR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 581.292, Calc. m/z: 581.297
Data File: Pepmix2_HCD.RAW.-1, Scans: 617 - 617

Max Intensity: 1.78e+05



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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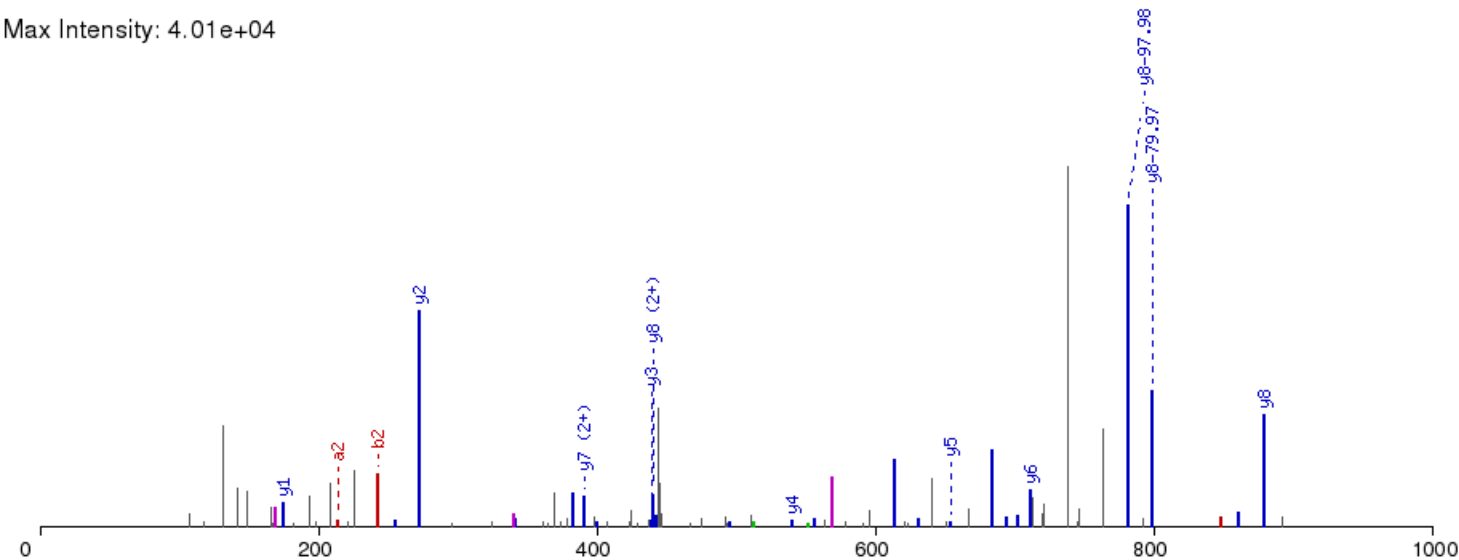
	A	L	Q	K	S	P	G	P	Q	R	
	1	2	3	4	5	6	7	8	9	10	
a		157.13									a
b		185.13	313.19	441.28	608.28	705.33	762.35	859.41	987.47		b
b-79.97					528.31	625.37	682.39	779.44	907.50		b-79.97
b-97.98					510.30	607.36	664.38	761.43	889.49		b-97.98
b (2+)				221.14	304.64	353.17	381.68	430.21	494.24		b (2+)
b-79.97 (2+)					264.66	313.19	341.70	390.22	454.25		b-79.97 (2+)
b-97.98 (2+)					255.66	304.18	332.69	381.22	445.25		b-97.98 (2+)
y		1090.54	977.46	849.40	721.30	554.30	457.25	400.23	303.18	175.12	y
y-79.97		1010.57	897.49	769.43	641.34						y-79.97
y-97.98		992.56	879.48	751.42	623.33						y-97.98
y (2+)		545.77	489.23	425.20	361.16	277.66	229.13	200.62	152.09	88.06	y (2+)
y-79.97 (2+)		505.79	449.25	385.22	321.17						y-79.97 (2+)
y-97.98 (2+)		496.79	440.24	376.21	312.17						y-97.98 (2+)
	A	L	Q	K	S	P	G	P	Q	R	
	10	9	8	7	6	5	4	3	2	1	

IQPAGNTS(+79.97)PR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 560.761, Calc. m/z: 560.767
Data File: Pepmix2_HCD.RAW.-1, Scans: 731 - 731

Max Intensity: 4.01e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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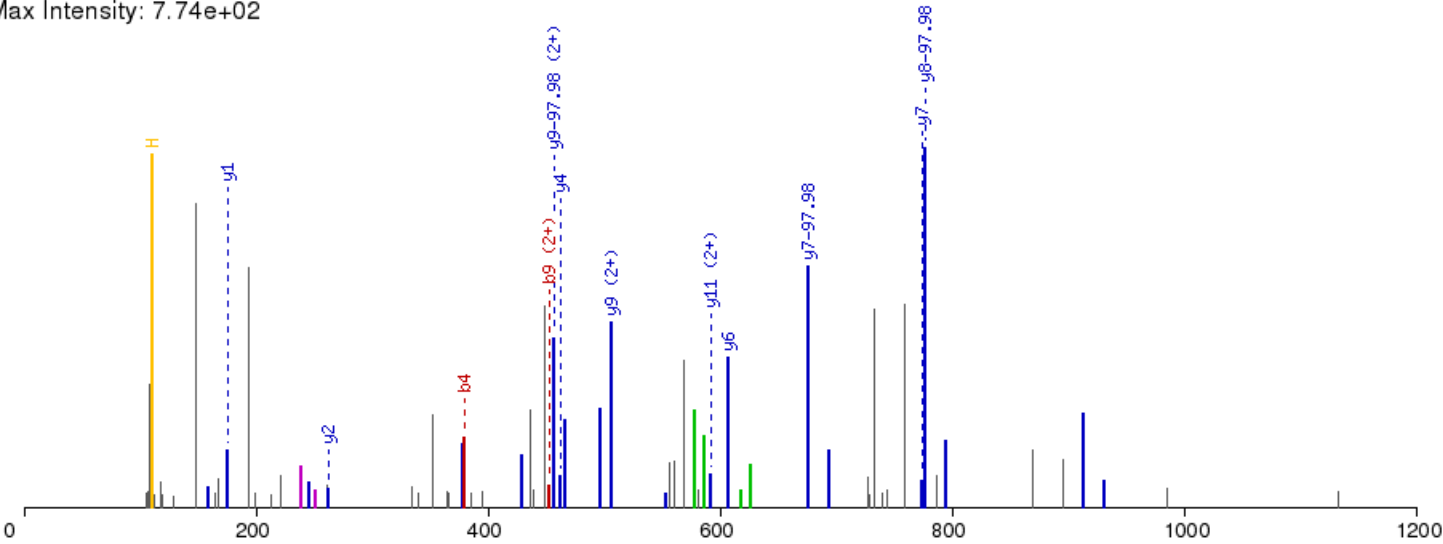
	I	Q	P	A	G	N	T	S	P	R	
	1	2	3	4	5	6	7	8	9	10	
a		214.16									a
b		242.15	339.20	410.24	467.26	581.30	682.35	849.35	946.40		b
b-79.97								769.38	866.44		b-79.97
b-97.98								751.37	848.43		b-97.98
y		1007.43	879.37	782.32	711.28	654.26	540.22	439.17	272.17	175.12	y
y-79.97		927.46	799.41	702.35	631.32	574.29	460.25	359.20			y-79.97
y-97.98		909.45	781.40	684.34	613.31	556.28	442.24	341.19			y-97.98
y (2+)		504.22	440.19	391.66	356.14	327.63	270.61	220.09	136.59	88.06	y (2+)
y-79.97 (2+)		464.24	400.21	351.68	316.16	287.65	230.63	180.11			y-79.97 (2+)
y-97.98 (2+)		455.23	391.20	342.67	307.16	278.65	221.62	171.10			y-97.98 (2+)
	I	Q	P	A	G	N	T	S	P	R	
	10	9	8	7	6	5	4	3	2	1	

AGIHTS(+79.97)GSLSSR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 626.788, Calc. m/z: 626.792
Data File: Pepmix3_HCD.RAW.-1, Scans: 977 - 977

Max Intensity: 7.74e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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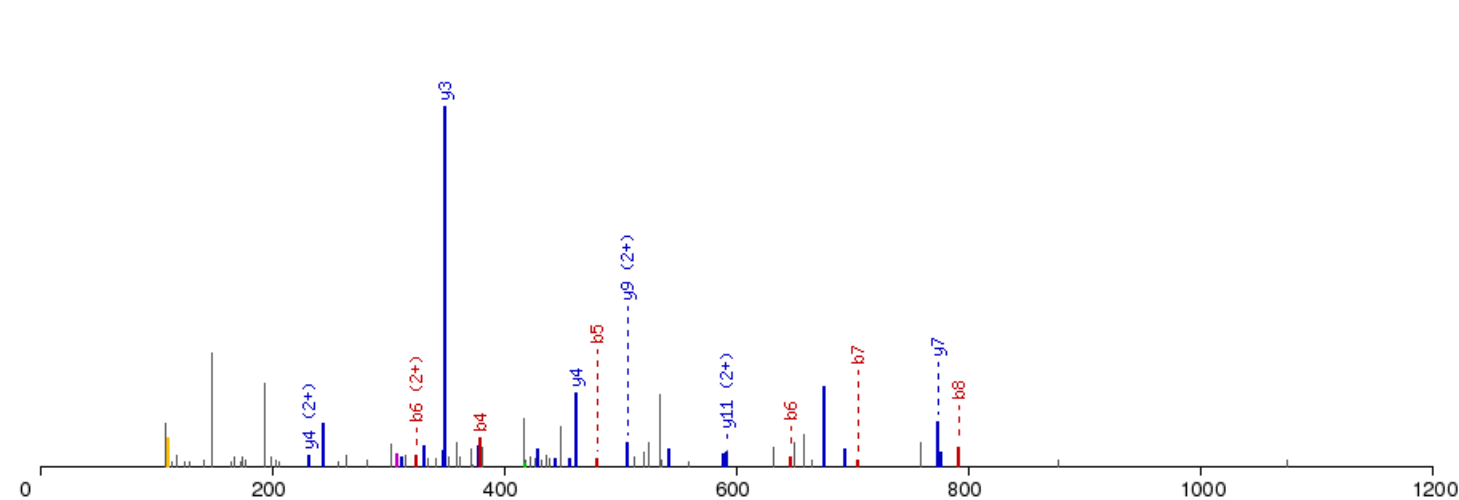
	A	G	I	H	T	S	G	S	L	S	S	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		101.07											a
b		129.07	242.15	379.21	480.26	647.25	704.28	791.31	904.39	991.42	1078.46		b
b-79.97						567.29	624.31	711.34	824.43	911.46	998.49		b-79.97
b-97.98						549.28	606.30	693.33	806.42	893.45	980.48		b-97.98
b (2+)				190.11	240.63	324.13	352.64	396.16	452.70	496.22	539.73		b (2+)
b-79.97 (2+)						284.15	312.66	356.17	412.72	456.23	499.75		b-79.97 (2+)
b-97.98 (2+)						275.14	303.65	347.17	403.71	447.23	490.74		b-97.98 (2+)
y		1181.53	1124.51	1011.43	874.37	773.32	606.32	549.30	462.27	349.18	262.15	175.12	y
y-79.97		1101.56	1044.54	931.46	794.40	693.35							y-79.97
y-97.98		1083.55	1026.53	913.45	776.39	675.34							y-97.98
y (2+)		591.27	562.76	506.22	437.69	387.16	303.66	275.15	231.64	175.10	131.58	88.06	y (2+)
y-79.97 (2+)		551.29	522.78	466.23	397.70	347.18							y-79.97 (2+)
y-97.98 (2+)		542.28	513.77	457.23	388.70	338.17							y-97.98 (2+)
	A	G	I	H	T	S	G	S	L	S	S	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

AGIHTS(+79.97)GSLSSR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 418.194, Calc. m/z: 418.194
Data File: Pepmix3_HCD.RAW.-1, Scans: 781 - 781

Max Intensity: 2.08e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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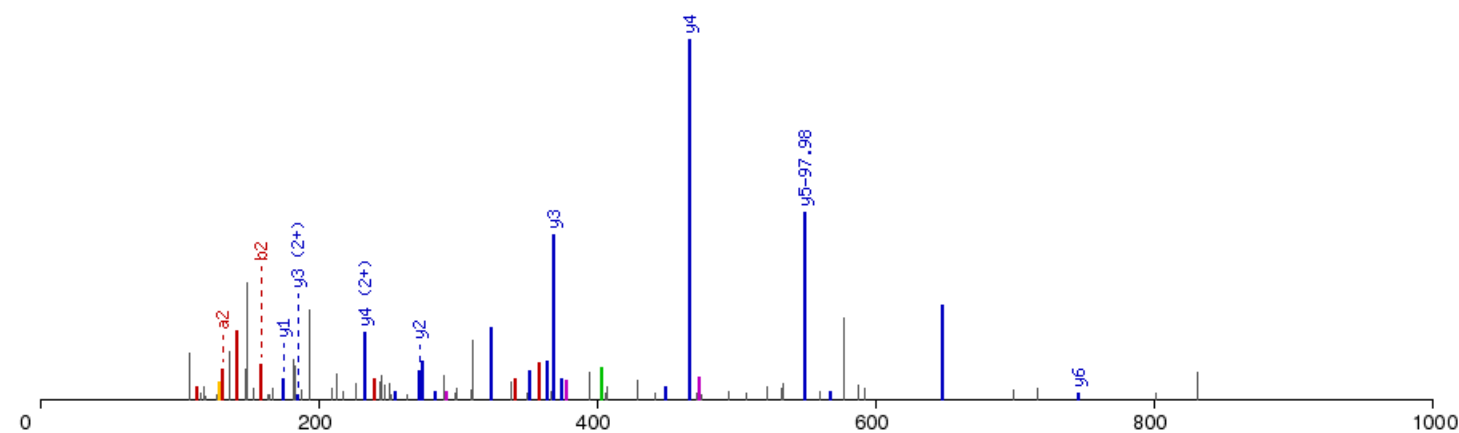
	A	G	I	H	T	S	G	S	L	S	S	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		101.07											a
b		129.07	242.15	379.21	480.26	647.25	704.28	791.31	904.39	991.42	1078.46		b
b-79.97						567.29	624.31	711.34	824.43	911.46	998.49		b-79.97
b-97.98						549.28	606.30	693.33	806.42	893.45	980.48		b-97.98
b (2+)				190.11	240.63	324.13	352.64	396.16	452.70	496.22	539.73		b (2+)
b-79.97 (2+)						284.15	312.66	356.17	412.72	456.23	499.75		b-79.97 (2+)
b-97.98 (2+)						275.14	303.65	347.17	403.71	447.23	490.74		b-97.98 (2+)
y		1181.53	1124.51	1011.43	874.37	773.32	606.32	549.30	462.27	349.18	262.15	175.12	y
y-79.97		1101.56	1044.54	931.46	794.40	693.35							y-79.97
y-97.98		1083.55	1026.53	913.45	776.39	675.34							y-97.98
y (2+)		591.27	562.76	506.22	437.69	387.16	303.66	275.15	231.64	175.10	131.58	88.06	y (2+)
y-79.97 (2+)		551.29	522.78	466.23	397.70	347.18							y-79.97 (2+)
y-97.98 (2+)		542.28	513.77	457.23	388.70	338.17							y-97.98 (2+)
y (3+)		394.52	375.51	337.81									y (3+)
y-79.97 (3+)		367.86	348.85	311.16									y-79.97 (3+)
y-97.98 (3+)		361.86	342.85	305.15									y-97.98 (3+)
	A	G	I	H	T	S	G	S	L	S	S	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

GTVT(+79.97)PPPR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 452.717, Calc. m/z: 452.718
Data File: Pepmix3_HCD.RAW.-1, Scans: 826 - 826

Max Intensity: 2.29e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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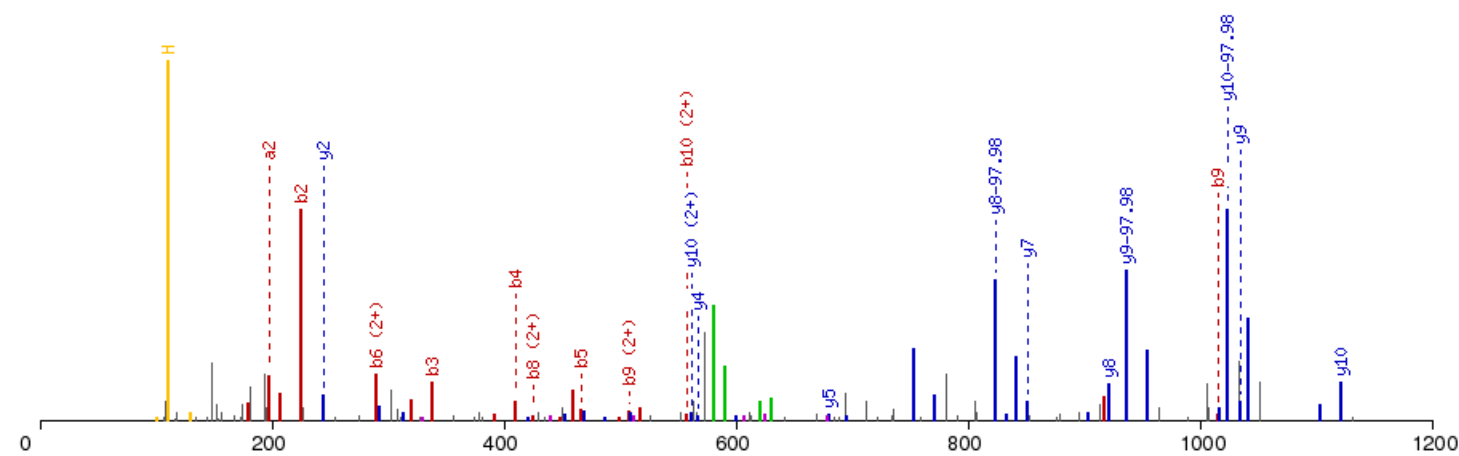
	G	T	V	T	P	P	P	R	
	1	2	3	4	5	6	7	8	
a		131.08							a
b		159.08	258.14	439.16	536.21	633.26	730.32		b
b-79.97				359.19	456.25	553.30	650.35		b-79.97
b-97.98				341.18	438.23	535.29	632.34		b-97.98
y		847.41	746.36	647.29	466.28	369.22	272.17	175.12	y
y-79.97		767.44	666.39	567.32					y-79.97
y-97.98		749.43	648.38	549.31					y-97.98
y (2+)		424.21	373.68	324.15	233.64	185.12	136.59	88.06	y (2+)
y-79.97 (2+)		384.22	333.70	284.17					y-79.97 (2+)
y-97.98 (2+)		375.22	324.70	275.16					y-97.98 (2+)
	G	T	V	T	P	P	P	R	
	8	7	6	5	4	3	2	1	

HSIAGIIRS(+79.97)PK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 629.837, Calc. m/z: 629.842
Data File: Pepmix1_HCD.RAW.-1, Scans: 1202 - 1202

Max Intensity: 1.15e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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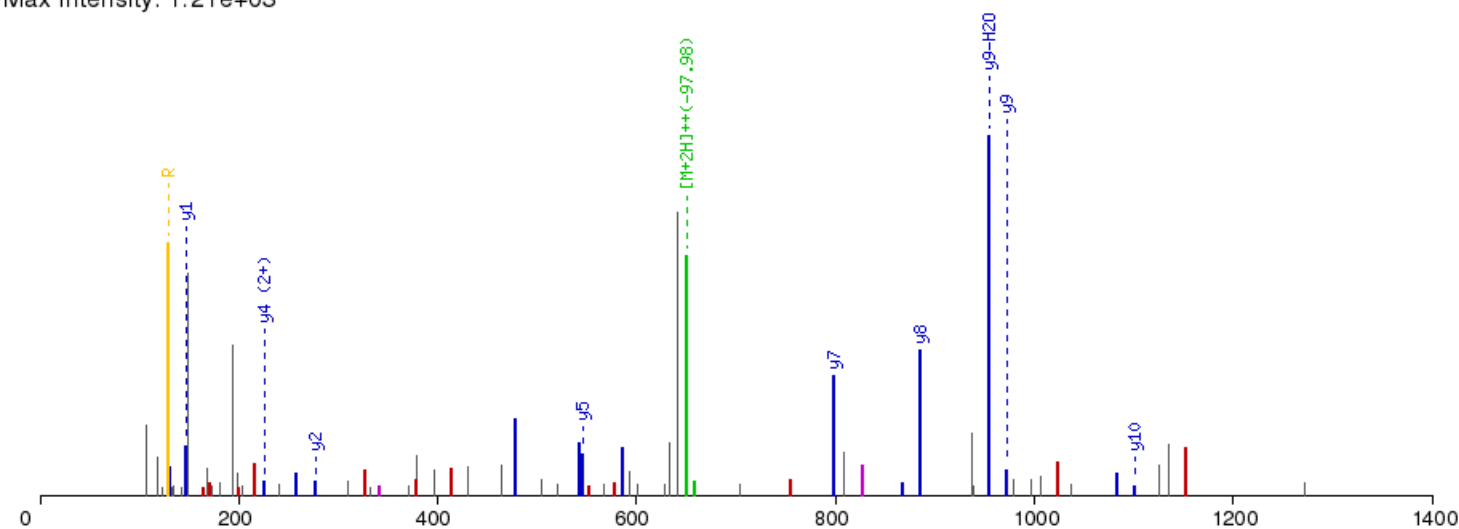
	H	S	I	A	G	I	I	R	S	P	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		197.10										a
a (2+)		99.06										a (2+)
b		225.10	338.18	409.22	466.24	579.32	692.41	848.51	1015.51	1112.56		b
b-79.97									935.54	1032.59		b-79.97
b-97.98									917.53	1014.58		b-97.98
b (2+)		113.05	169.59	205.11	233.62	290.17	346.71	424.76	508.26	556.78		b (2+)
b-79.97 (2+)									468.27	516.80		b-79.97 (2+)
b-97.98 (2+)									459.27	507.80		b-97.98 (2+)
y		1121.61	1034.58	921.49	850.45	793.43	680.35	567.27	411.16	244.17	147.11	y
y-79.97		1041.64	954.61	841.53	770.49	713.47	600.38	487.30	331.20			y-79.97
y-97.98		1023.63	936.60	823.51	752.48	695.46	582.37	469.29	313.19			y-97.98
y (2+)		561.31	517.79	461.25	425.73	397.22	340.68	284.14	206.09	122.59	74.06	y (2+)
y-79.97 (2+)		521.32	477.81	421.27	385.75	357.24	300.70	244.15	166.10			y-79.97 (2+)
y-97.98 (2+)		512.32	468.80	412.26	376.74	348.23	291.69	235.15	157.10			y-97.98 (2+)
	H	S	I	A	G	I	I	R	S	P	K	
	11	10	9	8	7	6	5	4	3	2	1	

ES(+79.97)KSSPRPTAEK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 698.828, Calc. m/z: 698.832
Data File: Pepmix3_HCD.RAW.-1, Scans: 510 - 510

Max Intensity: 1.21e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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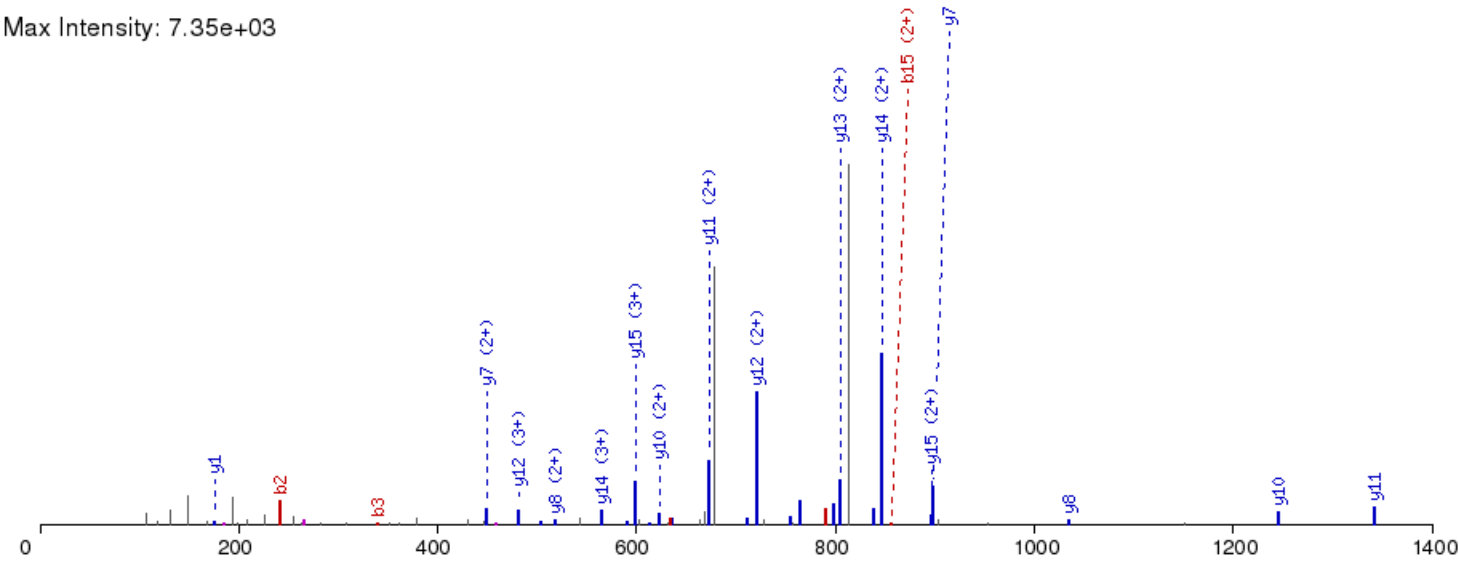
	E	S	K	S	S	P	R	P	T	A	E	K	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		269.05											a
a-79.97		189.09											a-79.97
a-97.98		171.08											a-97.98
b		297.05	425.14	512.18	599.21	696.26	852.36	949.41	1050.46	1121.50	1250.54		b
b-79.97		217.08	345.18	432.21	519.24	616.29	772.39	869.45	970.50	1041.53	1170.57		b-79.97
b-97.98		199.07	327.17	414.20	501.23	598.28	754.38	851.44	952.48	1023.52	1152.56		b-97.98
b (2+)			213.08	256.59	300.11	348.63	426.68	475.21	525.73	561.25	625.77		b (2+)
b-79.97 (2+)			173.09	216.61	260.12	308.65	386.70	435.23	485.75	521.27	585.79		b-79.97 (2+)
b-97.98 (2+)			164.09	207.60	251.12	299.65	377.70	426.22	476.75	512.26	576.79		b-97.98 (2+)
y		1267.60	1100.61	972.51	885.48	798.45	701.39	545.29	448.24	347.19	276.16	147.11	y
y-79.97		1187.64											y-79.97
y-97.98		1169.63											y-97.98
y (2+)		634.31	550.81	486.76	443.24	399.73	351.20	273.15	224.62	174.10	138.58	74.06	y (2+)
y-79.97 (2+)		594.32											y-79.97 (2+)
y-97.98 (2+)		585.32											y-97.98 (2+)
	E	S	K	S	S	P	R	P	T	A	E	K	
	12	11	10	9	8	7	6	5	4	3	2	1	

IQPSS(+79.97)PPPNHPNNHLFR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 677.990, Calc. m/z: 677.991
Data File: Pepmix3_HCD.RAW.-1, Scans: 1140 - 1140

Max Intensity: 7.35e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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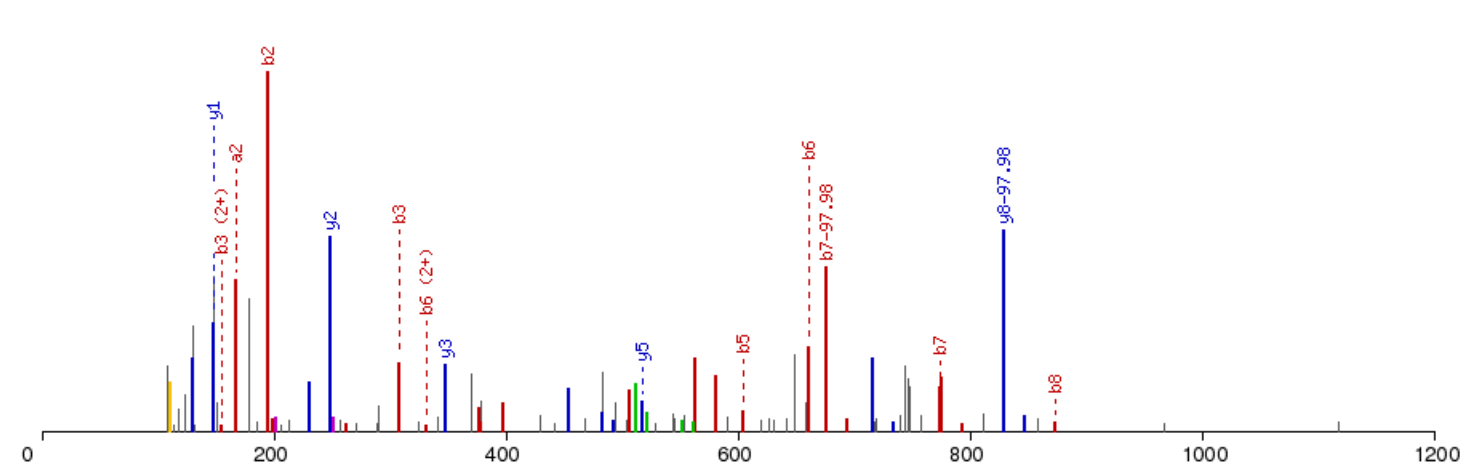
	I	Q	P	S	S	P	P	P	N	H	P	N	N	H	L	F	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
a		214.16																a
b		242.15	339.20	426.23	593.23	690.29	787.34	884.39	998.43	1135.49	1232.55	1346.59	1460.63	1597.69	1710.77	1857.84		b
b-79.97					513.27	610.32	707.37	804.43	918.47	1055.53	1152.58	1266.62	1380.67	1517.72	1630.81	1777.88		b-79.97
b-97.98					495.26	592.31	689.36	786.41	900.46	1037.52	1134.57	1248.61	1362.65	1499.71	1612.80	1759.87		b-97.98
b (2+)										568.25	616.78	673.80	730.82	799.35	855.89	929.43		b (2+)
b-79.97 (2+)										528.27	576.79	633.81	690.84	759.37	815.91	889.44		b-79.97 (2+)
b-97.98 (2+)										519.26	567.79	624.81	681.83	750.36	806.90	880.44		b-97.98 (2+)
b (3+)														533.24	570.93	619.95		b (3+)
b-79.97 (3+)														506.58	544.27	593.30		b-79.97 (3+)
b-97.98 (3+)														500.58	538.27	587.29		b-97.98 (3+)
y		1918.87	1790.81	1693.76	1606.73	1439.73	1342.68	1245.62	1148.57	1034.53	897.47	800.42	686.37	572.33	435.27	322.19	175.12	y
y-79.97		1838.90	1710.85	1613.79	1526.76													y-79.97
y-97.98		1820.89	1692.84	1595.78	1508.75													y-97.98
y (2+)		959.94	895.91	847.38	803.87	720.37	671.84	623.32	574.79	517.77	449.24	400.71	343.69	286.67	218.14	161.60	88.06	y (2+)
y-79.97 (2+)		919.96	855.93	807.40	763.88													y-79.97 (2+)
y-97.98 (2+)		910.95	846.92	798.39	754.88													y-97.98 (2+)
y (3+)		640.30	597.61	565.26	536.25	480.58	448.23	415.88	383.53	345.51	299.83	267.48	229.46	191.45				y (3+)
y-79.97 (3+)		613.64	570.95	538.60	509.59													y-79.97 (3+)
y-97.98 (3+)		607.64	564.95	532.60	503.59													y-97.98 (3+)
	I	Q	P	S	S	P	P	P	N	H	P	N	N	H	L	F	R	
	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

GHLS(+79.97)EGLVTK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 560.774, Calc. m/z: 560.777
Data File: Pepmix1_HCD.RAW.-1, Scans: 1177 - 1177

Max Intensity: 1.63e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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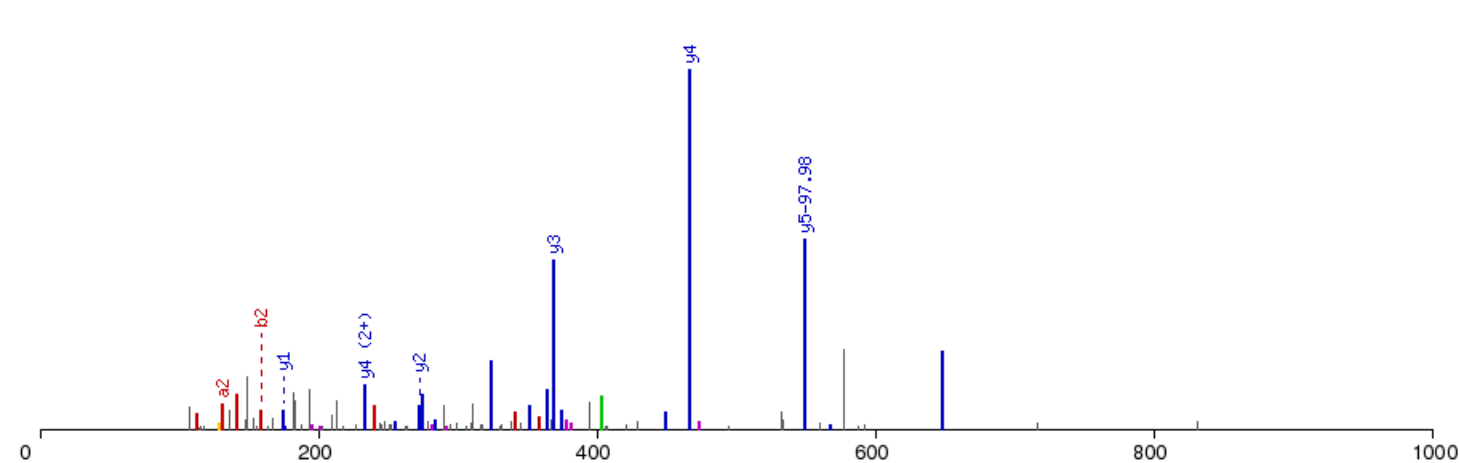
	G	H	L	S	E	G	L	V	T	K	
	1	2	3	4	5	6	7	8	9	10	
a		167.09									a
a (2+)		84.05									a (2+)
b		195.09	308.17	475.17	604.21	661.23	774.32	873.39	974.43		b
b-79.97				395.20	524.25	581.27	694.35	793.42	894.47		b-79.97
b-97.98				377.19	506.24	563.26	676.34	775.41	876.46		b-97.98
b (2+)		98.05	154.59	238.09	302.61	331.12	387.66	437.20	487.72		b (2+)
b-79.97 (2+)				198.11	262.63	291.14	347.68	397.21	447.74		b-79.97 (2+)
b-97.98 (2+)				189.10	253.62	282.13	338.67	388.21	438.73		b-97.98 (2+)
y		1063.52	926.46	813.38	646.38	517.33	460.31	347.23	248.16	147.11	y
y-79.97		983.55	846.49	733.41							y-79.97
y-97.98		965.54	828.48	715.40							y-97.98
y (2+)		532.26	463.73	407.19	323.69	259.17	230.66	174.12	124.58	74.06	y (2+)
y-79.97 (2+)		492.28	423.75	367.21							y-79.97 (2+)
y-97.98 (2+)		483.27	414.74	358.20							y-97.98 (2+)
	G	H	L	S	E	G	L	V	T	K	
	10	9	8	7	6	5	4	3	2	1	

GTVT(+79.97)PPPR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 452.718, Calc. m/z: 452.722
Data File: Pepmix3_HCD.RAW.-1, Scans: 820 - 820

Max Intensity: 7.86e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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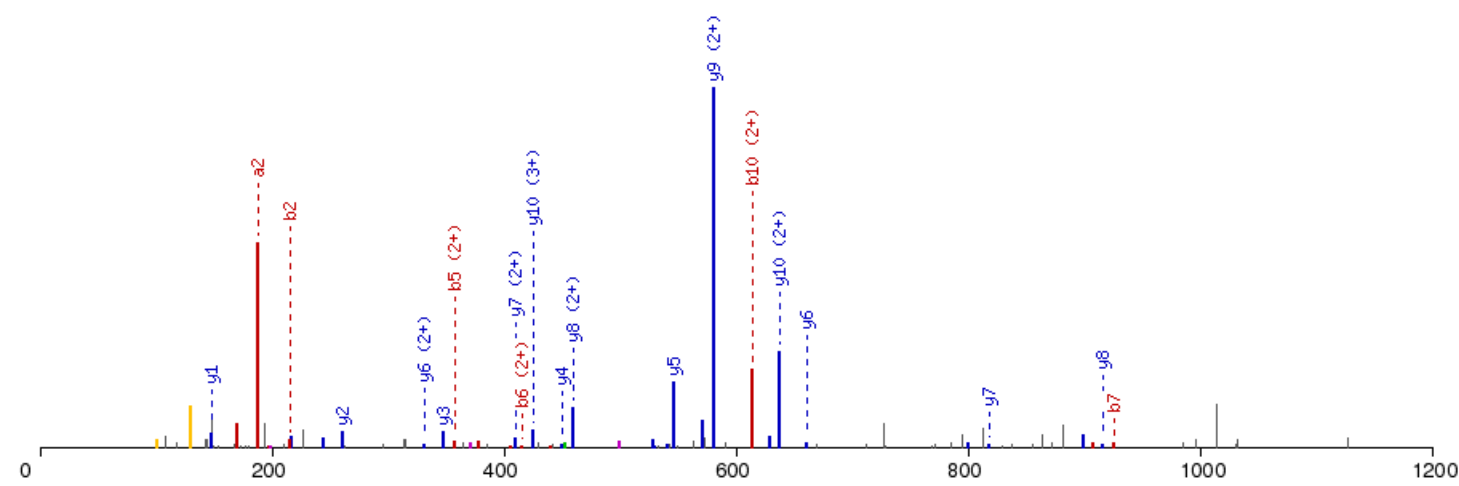
	G	T	V	T	P	P	P	R	
	1	2	3	4	5	6	7	8	
a		131.08							a
b		159.08	258.14	439.16	536.21	633.26	730.32		b
b-79.97				359.19	456.25	553.30	650.35		b-79.97
b-97.98				341.18	438.23	535.29	632.34		b-97.98
y		847.41	746.36	647.29	466.28	369.22	272.17	175.12	y
y-79.97		767.44	666.39	567.32					y-79.97
y-97.98		749.43	648.38	549.31					y-97.98
y (2+)		424.21	373.68	324.15	233.64	185.12	136.59	88.06	y (2+)
y-79.97 (2+)		384.22	333.70	284.17					y-79.97 (2+)
y-97.98 (2+)		375.22	324.70	275.16					y-97.98 (2+)
	G	T	V	T	P	P	P	R	
	8	7	6	5	4	3	2	1	

TIY(+79.97)VRDPTSNK

Identified in MSS769 1 x Phospho (Y)

Charge: 3, Exp. m/z: 458.553, Calc. m/z: 458.557
Data File: Pepmix1_HCD.RAW.-1, Scans: 1082 - 1082

Max Intensity: 1.86e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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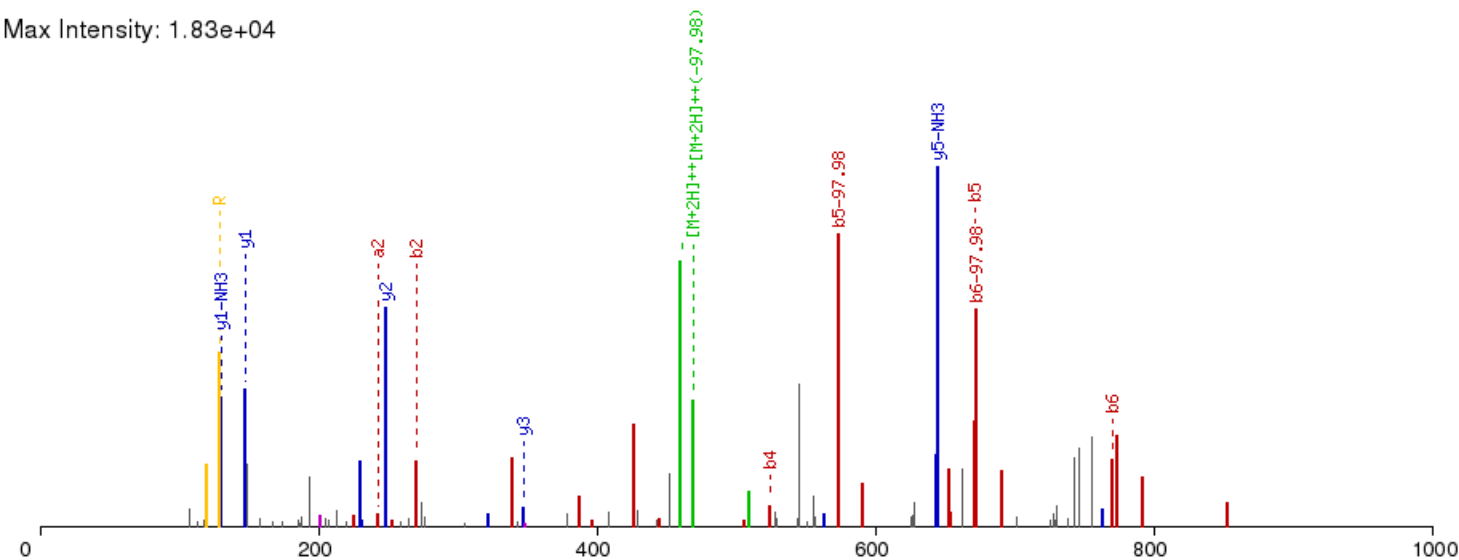
	T	I	Y	V	R	D	P	T	S	N	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		187.14										a
b		215.14	458.17	557.24	713.34	828.37	925.42	1026.47	1113.50	1227.54		b
b-79.97			378.20	477.27	633.37	748.40	845.45	946.50	1033.53	1147.57		b-79.97
b (2+)					357.17	414.69	463.21	513.74	557.25	614.27		b (2+)
b-79.97 (2+)					317.19	374.70	423.23	473.75	517.27	574.29		b-79.97 (2+)
y		1272.60	1159.51	916.48	817.42	661.32	546.29	449.24	348.19	261.16	147.11	y
y-79.97		1192.63	1079.55									y-79.97
y (2+)		636.80	580.26	458.75	409.21	331.16	273.65	225.12	174.60	131.08	74.06	y (2+)
y-79.97 (2+)		596.82	540.28									y-79.97 (2+)
y (3+)		424.87	387.18	306.17	273.14							y (3+)
y-79.97 (3+)		398.22	360.52									y-79.97 (3+)
	T	I	Y	V	R	D	P	T	S	N	K	
	11	10	9	8	7	6	5	4	3	2	1	

RLSS(+79.97)FVTK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 509.260, Calc. m/z: 509.262
Data File: Pepmix1_HCD.RAW.-1, Scans: 1325 - 1325

Max Intensity: 1.83e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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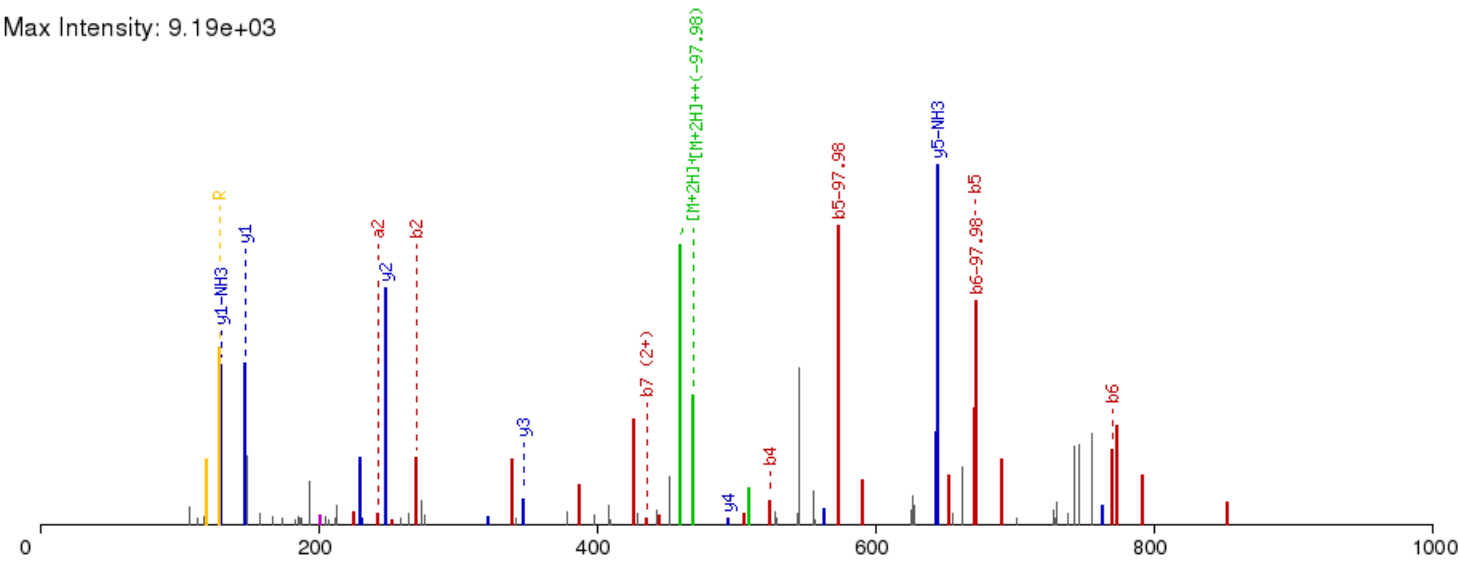
	R	L	S	S	F	V	T	K	
	1	2	3	4	5	6	7	8	
a		242.20							a
a (2+)		121.60							a (2+)
b		270.19	357.22	524.22	671.29	770.36	871.41		b
b-79.97				444.26	591.32	690.39	791.44		b-79.97
b-97.98				426.25	573.31	672.38	773.43		b-97.98
b (2+)		135.60	179.12	262.62	336.15	385.68	436.21		b (2+)
b-79.97 (2+)				222.63	296.17	345.70	396.22		b-79.97 (2+)
b-97.98 (2+)				213.63	287.16	336.70	387.22		b-97.98 (2+)
y		861.41	748.33	661.30	494.30	347.23	248.16	147.11	y
y-79.97		781.45	668.36	581.33					y-79.97
y-97.98		763.43	650.35	563.32					y-97.98
y (2+)		431.21	374.67	331.15	247.65	174.12	124.58	74.06	y (2+)
y-79.97 (2+)		391.23	334.68	291.17					y-79.97 (2+)
y-97.98 (2+)		382.22	325.68	282.16					y-97.98 (2+)
	R	L	S	S	F	V	T	K	
	8	7	6	5	4	3	2	1	

RLSS(+79.97)FVTK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 509.260, Calc. m/z: 509.262
Data File: Pepmix1_HCD.RAW.-1, Scans: 1319 - 1319

Max Intensity: 9.19e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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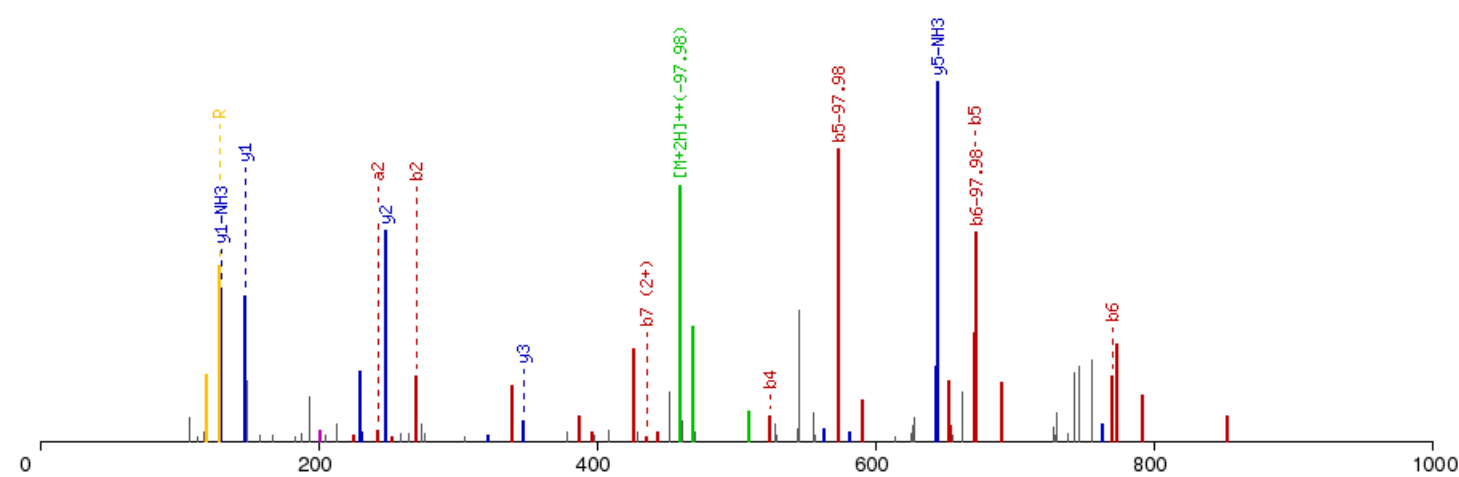
	R	L	S	S	F	V	T	K	
	1	2	3	4	5	6	7	8	
a		242.20							a
a (2+)		121.60							a (2+)
b		270.19	357.22	524.22	671.29	770.36	871.41		b
b-79.97				444.26	591.32	690.39	791.44		b-79.97
b-97.98				426.25	573.31	672.38	773.43		b-97.98
b (2+)		135.60	179.12	262.62	336.15	385.68	436.21		b (2+)
b-79.97 (2+)				222.63	296.17	345.70	396.22		b-79.97 (2+)
b-97.98 (2+)				213.63	287.16	336.70	387.22		b-97.98 (2+)
y		861.41	748.33	661.30	494.30	347.23	248.16	147.11	y
y-79.97		781.45	668.36	581.33					y-79.97
y-97.98		763.43	650.35	563.32					y-97.98
y (2+)		431.21	374.67	331.15	247.65	174.12	124.58	74.06	y (2+)
y-79.97 (2+)		391.23	334.68	291.17					y-79.97 (2+)
y-97.98 (2+)		382.22	325.68	282.16					y-97.98 (2+)
	R	L	S	S	F	V	T	K	
	8	7	6	5	4	3	2	1	

RLSS(+79.97)FVTK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 509.260, Calc. m/z: 509.262
Data File: Pepmix1_HCD.RAW.-1, Scans: 1331 - 1331

Max Intensity: 9.06e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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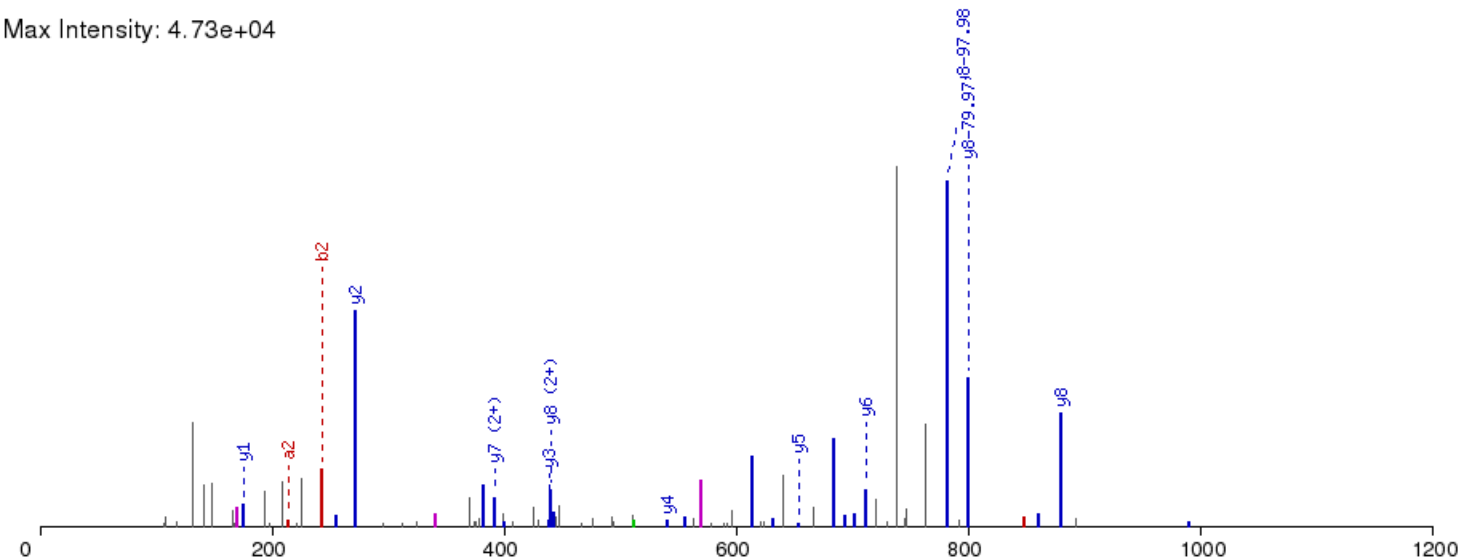
	R	L	S	S	F	V	T	K	
	1	2	3	4	5	6	7	8	
a		242.20							a
a (2+)		121.60							a (2+)
b		270.19	357.22	524.22	671.29	770.36	871.41		b
b-79.97				444.26	591.32	690.39	791.44		b-79.97
b-97.98				426.25	573.31	672.38	773.43		b-97.98
b (2+)		135.60	179.12	262.62	336.15	385.68	436.21		b (2+)
b-79.97 (2+)				222.63	296.17	345.70	396.22		b-79.97 (2+)
b-97.98 (2+)				213.63	287.16	336.70	387.22		b-97.98 (2+)
y		861.41	748.33	661.30	494.30	347.23	248.16	147.11	y
y-79.97		781.45	668.36	581.33					y-79.97
y-97.98		763.43	650.35	563.32					y-97.98
y (2+)		431.21	374.67	331.15	247.65	174.12	124.58	74.06	y (2+)
y-79.97 (2+)		391.23	334.68	291.17					y-79.97 (2+)
y-97.98 (2+)		382.22	325.68	282.16					y-97.98 (2+)
	R	L	S	S	F	V	T	K	
	8	7	6	5	4	3	2	1	

IQPAGNTS(+79.97)PR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 560.761, Calc. m/z: 560.767
Data File: Pepmix2_HCD.RAW.-1, Scans: 749 - 749

Max Intensity: 4.73e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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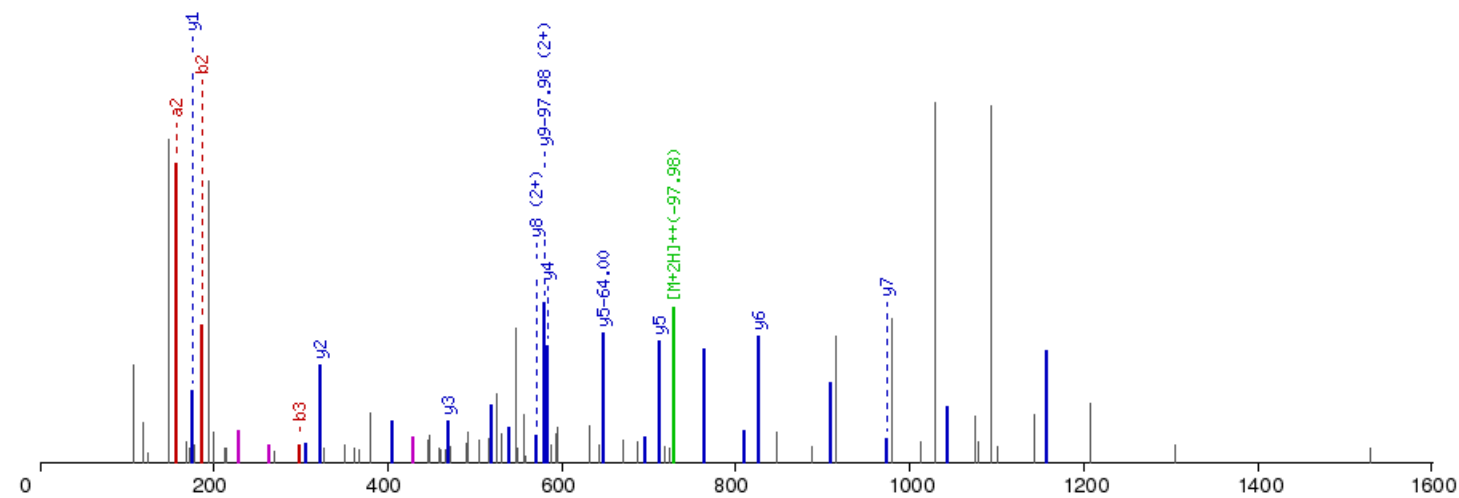
	I	Q	P	A	G	N	T	S	P	R	
	1	2	3	4	5	6	7	8	9	10	
a		214.16									a
b		242.15	339.20	410.24	467.26	581.30	682.35	849.35	946.40		b
b-79.97								769.38	866.44		b-79.97
b-97.98								751.37	848.43		b-97.98
y		1007.43	879.37	782.32	711.28	654.26	540.22	439.17	272.17	175.12	y
y-79.97		927.46	799.41	702.35	631.32	574.29	460.25	359.20			y-79.97
y-97.98		909.45	781.40	684.34	613.31	556.28	442.24	341.19			y-97.98
y (2+)		504.22	440.19	391.66	356.14	327.63	270.61	220.09	136.59	88.06	y (2+)
y-79.97 (2+)		464.24	400.21	351.68	316.16	287.65	230.63	180.11			y-79.97 (2+)
y-97.98 (2+)		455.23	391.20	342.67	307.16	278.65	221.62	171.10			y-97.98 (2+)
	I	Q	P	A	G	N	T	S	P	R	
	10	9	8	7	6	5	4	3	2	1	

ALINS(+79.97)M(+15.99)DQNM(+15.99)FR

Identified in MSS769 2 x Oxidation (M) 1 x Phospho (ST)

Charge: 2, Exp. m/z: 776.321, Calc. m/z: 776.322
Data File: Pepmix4_HCD.RAW.-1, Scans: 1468 - 1468

Max Intensity: 8.27e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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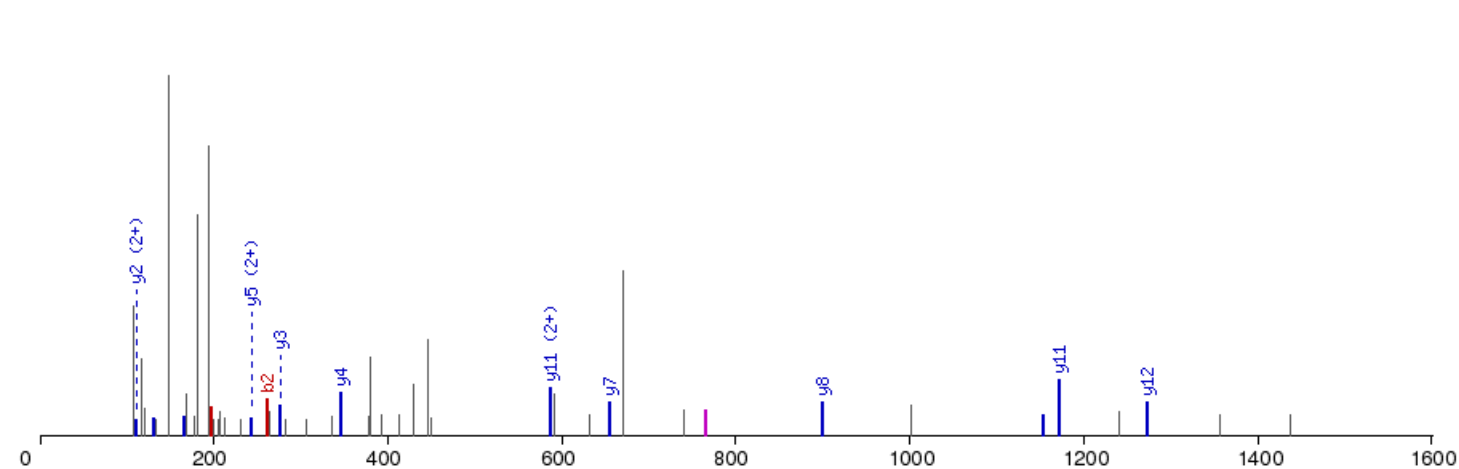
	A	L	I	N	S	M	D	Q	N	M	F	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		157.13											a
b		185.13	298.21	412.26	579.25	726.29	841.32	969.37	1083.42	1230.45	1377.52		b
b-15.99						710.29	825.32	953.38	1067.42	1214.46	1361.53		b-15.99
b-64.00						662.29	777.32	905.38	1019.42	1166.45	1313.52		b-64.00
b-79.97					499.29	646.32	761.35	889.41	1003.45	1150.49	1297.56		b-79.97
b-97.98					481.28	628.31	743.34	871.40	985.44	1132.48	1279.54		b-97.98
y		1480.60	1367.51	1254.43	1140.38	973.39	826.35	711.32	583.27	469.22	322.19	175.12	y
y-15.99		1464.60	1351.52	1238.43	1124.39	957.39	810.36	695.33	567.27	453.23			y-15.99
y-64.00		1416.60	1303.51	1190.43	1076.39	909.39	762.35	647.33	519.27	405.22			y-64.00
y-79.97		1400.63	1287.55	1174.46	1060.42								y-79.97
y-97.98		1382.62	1269.54	1156.45	1042.41								y-97.98
y (2+)		740.80	684.26	627.72	570.70	487.20	413.68	356.17	292.14	235.12	161.60	88.06	y (2+)
y-15.99 (2+)		732.80	676.26	619.72	562.70	479.20	405.68	348.17	284.14	227.12			y-15.99 (2+)
y-64.00 (2+)		708.80	652.26	595.72	538.70	455.20	381.68	324.17	260.14	203.12			y-64.00 (2+)
y-79.97 (2+)		700.82	644.28	587.73	530.71								y-79.97 (2+)
y-97.98 (2+)		691.81	635.27	578.73	521.71								y-97.98 (2+)
	A	L	I	N	S	M	D	Q	N	M	F	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

LM(+15.99)TGDTY(+79.97)TAHAGAK

Identified in MSS769 1 x Phospho (Y) 1 x Oxidation (M)

Charge: 2, Exp. m/z: 766.827, Calc. m/z: 766.827
Data File: Pepmix2_HCD.RAW.-1, Scans: 788 - 788

Max Intensity: 6.10e+02



Sequence Ladder Ions

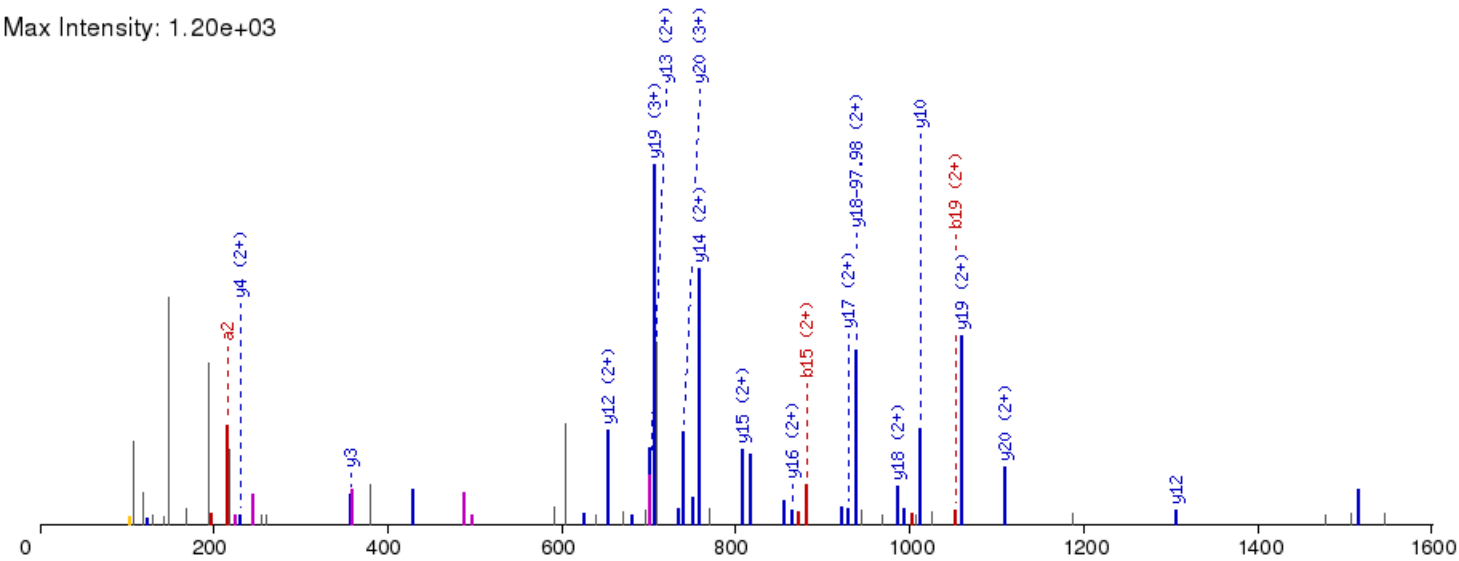
Key: m/z out of range of spectrum matched c-term ion unmatched c-term ion matched n-term ion unmatched n-term ion															
	L	M	T	G	D	T	Y	T	A	H	A	G	A	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		233.13													a
a-15.99		217.14													a-15.99
a-64.00		169.13													a-64.00
b		261.13	362.17	419.20	534.22	635.27	878.30	979.35	1050.38	1187.44	1258.48	1315.50	1386.54		b
b-15.99		245.13	346.18	403.20	518.23	619.28	862.31	963.35	1034.39	1171.45	1242.49	1299.51	1370.54		b-15.99
b-64.00		197.13	298.18	355.20	470.22	571.27	814.30	915.35	986.39	1123.45	1194.48	1251.50	1322.54		b-64.00
b-79.97							798.33	899.38	970.42	1107.48	1178.51	1235.54	1306.57		b-79.97
b (2+)										594.23	629.74	658.25	693.77		b (2+)
b-15.99 (2+)										586.23	621.75	650.26	685.78		b-15.99 (2+)
b-64.00 (2+)										562.23	597.74	626.26	661.77		b-64.00 (2+)
b-79.97 (2+)										554.24	589.76	618.27	653.79		b-79.97 (2+)
y		1419.56	1272.53	1171.48	1114.46	999.43	898.38	655.35	554.30	483.27	346.21	275.17	218.15	147.11	y
y-15.99		1403.57													y-15.99
y-64.00		1355.56													y-64.00
y-79.97		1339.59	1192.56	1091.51	1034.49	919.46	818.42								y-79.97
y (2+)		710.28	636.77	586.24	557.73	500.22	449.69	328.18	277.66	242.14	173.61	138.09	109.58	74.06	y (2+)
y-15.99 (2+)		702.29													y-15.99 (2+)
y-64.00 (2+)		678.28													y-64.00 (2+)
y-79.97 (2+)		670.30	596.78	546.26	517.75	460.24	409.71								y-79.97 (2+)
	L	M	T	G	D	T	Y	T	A	H	A	G	A	K	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

EIPFNEDPNPNT(+79.97)HSSGPSTPLK

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 820.037, Calc. m/z: 820.037
Data File: Pepmix3_HCD.RAW.-1, Scans: 1532 - 1532

Max Intensity: 1.20e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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	E	I	P	F	N	E	D	P	N	P	N	T	H	S	S	G	P	S	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
a		215.14																	a
b		243.13	340.19	487.26	601.30	730.34	845.37	942.42	1056.46	1153.52	1267.56	1448.57	1585.63	1672.66	1759.70	1816.72	1913.77	2000.80	b
b-79.97												1368.61	1505.67	1592.70	1679.73	1736.75	1833.80	1920.84	b-79.97
b-97.98												1350.60	1487.65	1574.69	1661.72	1718.74	1815.79	1902.83	b-97.98
b (2+)													793.32	836.84	880.35	908.86	957.39	1000.90	b (2+)
b-79.97 (2+)													753.34	796.85	840.37	868.88	917.41	960.92	b-79.97 (2+)
b-97.98 (2+)													744.33	787.85	831.36	859.87	908.40	951.92	b-97.98 (2+)
y		2329.05	2215.97	2118.91	1971.84	1857.80	1728.76	1613.73	1516.68	1402.64	1305.58	1191.54	1010.53	873.47	786.44	699.40	642.38	545.33	y
y-79.97		2249.08	2136.00	2038.95	1891.88	1777.84	1648.79	1533.77	1436.71	1322.67	1225.62	1111.57							y-79.97
y-97.98		2231.07	2117.99	2020.94	1873.87	1759.82	1630.78	1515.76	1418.70	1304.66	1207.61	1093.56							y-97.98
y (2+)		1165.03	1108.49	1059.96	986.43	929.40	864.88	807.37	758.84	701.82	653.30	596.27	505.77	437.24	393.72	350.21	321.69	273.17	y (2+)
y-79.97 (2+)		1125.05	1068.50	1019.98	946.44	889.42	824.90	767.39	718.86	661.84	613.31	556.29							y-79.97 (2+)
y-97.98 (2+)		1116.04	1059.50	1010.97	937.44	880.42	815.89	758.38	709.85	652.83	604.31	547.29							y-97.98 (2+)
y (3+)		777.02	739.33	706.98	657.95	619.94	576.92	538.58	506.23	468.22	435.87	397.85	337.51						y (3+)
y-79.97 (3+)		750.37	712.67	680.32	631.30	593.28	550.27	511.93	479.58	441.56	409.21	371.20							y-79.97 (3+)
y-97.98 (3+)		744.36	706.67	674.32	625.29	587.28	544.27	505.92	473.57	435.56	403.21	365.19							y-97.98 (3+)
	E	I	P	F	N	E	D	P	N	P	N	T	H	S	S	G	P	S	
	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	

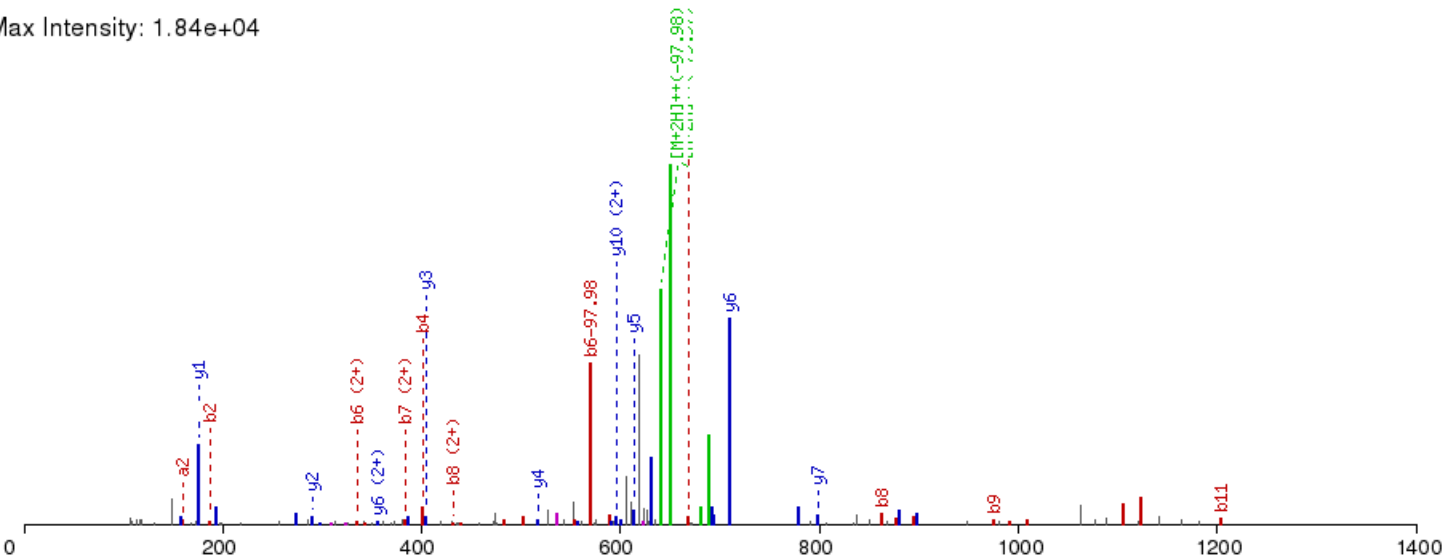
	T	P	L	K	
	19	20	21	22	
a					a
b	2101.85	2198.90	2311.99		b
b--79.97	2021.88	2118.94	2232.02		b--79.97
b--97.98	2003.87	2100.93	2214.01		b--97.98
b (2+)	1051.43	1099.95	1156.50		b (2+)
b--79.97 (2+)	1011.45	1059.97	1116.51		b--79.97 (2+)
b--97.98 (2+)	1002.44	1050.97	1107.51		b--97.98 (2+)
y	458.30	357.25	260.20	147.11	y
y--79.97					y--79.97
y--97.98					y--97.98
y (2+)	229.65	179.13	130.60	74.06	y (2+)
y--79.97 (2+)					y--79.97 (2+)
y--97.98 (2+)					y--97.98 (2+)
y (3+)					y (3+)
y--79.97 (3+)					y--79.97 (3+)
y--97.98 (3+)					y--97.98 (3+)
	T	P	L	K	
	4	3	2	1	

VSGRT(+79.97)SPPLDDR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 689.348, Calc. m/z: 689.352
Data File: Pepmix5_HCD.RAW.-1, Scans: 1168 - 1168

Max Intensity: 1.84e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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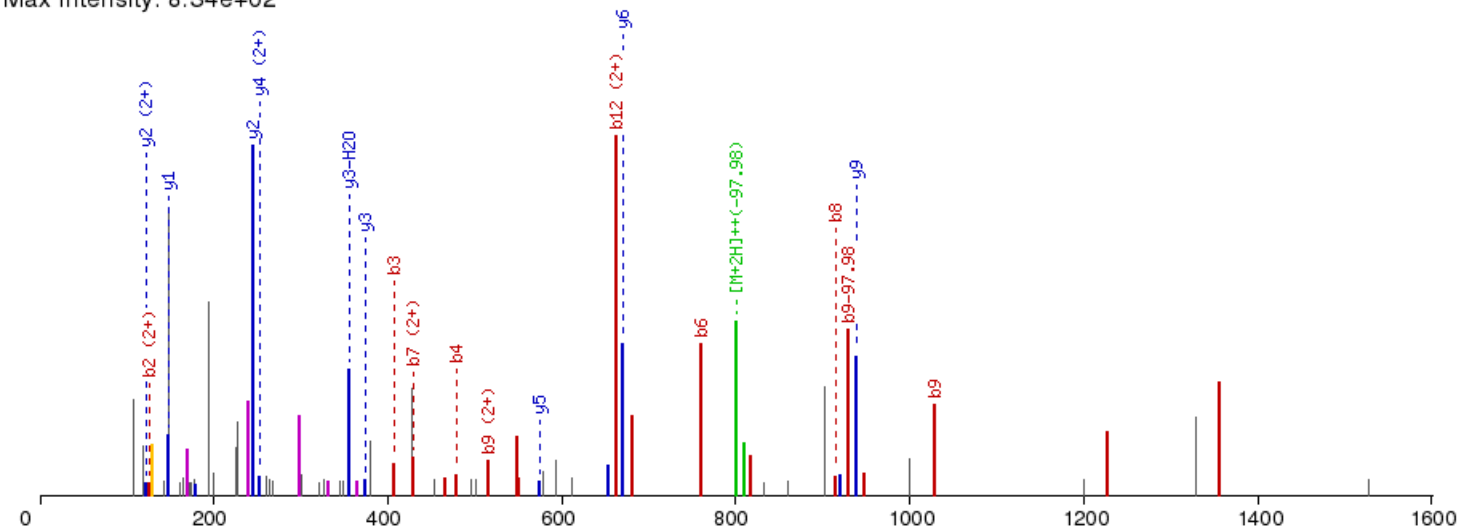
	V	S	G	R	T	S	P	P	L	L	D	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		159.11											a
b		187.11	244.13	400.23	581.24	668.28	765.33	862.38	975.47	1088.55	1203.58		b
b-79.97					501.28	588.31	685.36	782.42	895.50	1008.58	1123.61		b-79.97
b-97.98					483.27	570.30	667.35	764.40	877.49	990.57	1105.60		b-97.98
b (2+)				200.62	291.13	334.64	383.17	431.69	488.24	544.78	602.29		b (2+)
b-79.97 (2+)					251.14	294.66	343.19	391.71	448.25	504.80	562.31		b-79.97 (2+)
b-97.98 (2+)					242.14	285.65	334.18	382.71	439.25	495.79	553.30		b-97.98 (2+)
y		1278.62	1191.59	1134.57	978.47	797.45	710.42	613.37	516.31	403.23	290.15	175.12	y
y-79.97		1198.65	1111.62	1054.60	898.50								y-79.97
y-97.98		1180.64	1093.61	1036.59	880.49								y-97.98
y (2+)		639.81	596.30	567.79	489.74	399.23	355.71	307.19	258.66	202.12	145.58	88.06	y (2+)
y-79.97 (2+)		599.83	556.31	527.80	449.75								y-79.97 (2+)
y-97.98 (2+)		590.83	547.31	518.80	440.75								y-97.98 (2+)
	V	S	G	R	T	S	P	P	L	L	D	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

IHRAS(+79.97)DPGLPAEEPK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 848.908, Calc. m/z: 848.912
Data File: Pepmix4_HCD.RAW.-1, Scans: 1022 - 1022

Max Intensity: 8.34e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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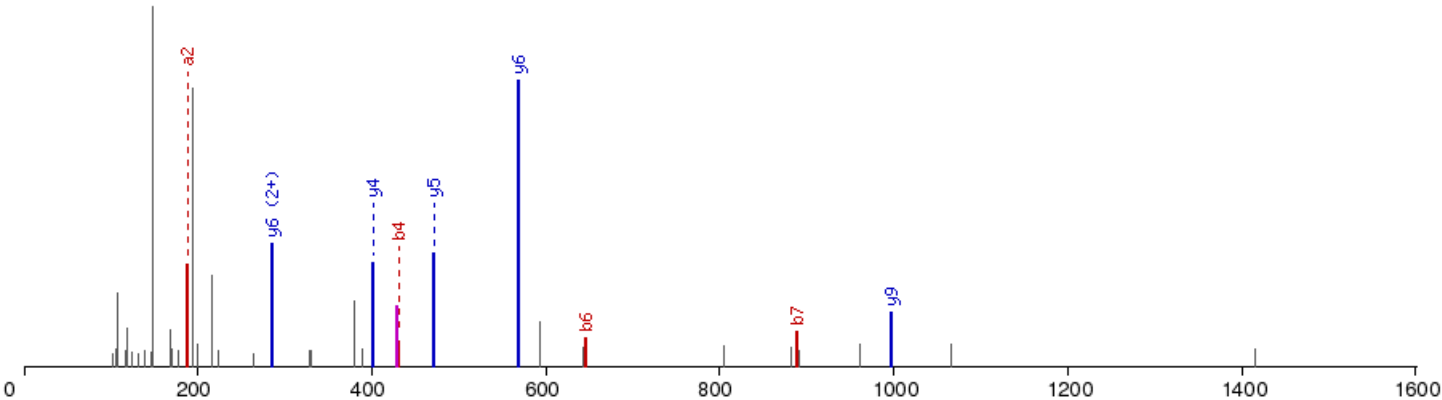
	I	H	R	A	S	D	P	G	L	P	A	E	E	P	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
a		223.16														a
a (2+)		112.08														a (2+)
b		251.15	407.25	478.29	645.29	760.31	857.37	914.39	1027.47	1124.52	1195.56	1324.60	1453.65	1550.70		b
b-79.97					565.32	680.35	777.40	834.42	947.51	1044.56	1115.60	1244.64	1373.68	1470.73		b-79.97
b-97.98					547.31	662.34	759.39	816.41	929.50	1026.55	1097.59	1226.63	1355.67	1452.72		b-97.98
b (2+)		126.08	204.13	239.65	323.15	380.66	429.19	457.70	514.24	562.77	598.28	662.81	727.33	775.85		b (2+)
b-79.97 (2+)					283.16	340.68	389.20	417.71	474.26	522.78	558.30	622.82	687.34	735.87		b-79.97 (2+)
b-97.98 (2+)					274.16	331.67	380.20	408.71	465.25	513.78	549.30	613.82	678.34	726.87		b-97.98 (2+)
y		1583.72	1446.66	1290.56	1219.52	1052.53	937.50	840.45	783.42	670.34	573.29	502.25	373.21	244.17	147.11	y
y-79.97		1503.76	1366.70	1210.60	1139.56											y-79.97
y-97.98		1485.74	1348.69	1192.58	1121.55											y-97.98
y (2+)		792.36	723.83	645.78	610.27	526.77	469.25	420.73	392.22	335.67	287.15	251.63	187.11	122.59	74.06	y (2+)
y-79.97 (2+)		752.38	683.85	605.80	570.28											y-79.97 (2+)
y-97.98 (2+)		743.38	674.85	596.80	561.28											y-97.98 (2+)
	I	H	R	A	S	D	P	G	L	P	A	E	E	P	K	
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

TLSEVDY(+79.97)APAGPAR

Identified in MSS769 1 x Phospho (Y)

Charge: 3, Exp. m/z: 509.568, Calc. m/z: 509.571
Data File: Pepmix5_HCD.RAW.-1, Scans: 1226 - 1226

Max Intensity: 6.72e+02



Sequence Ladder Ions

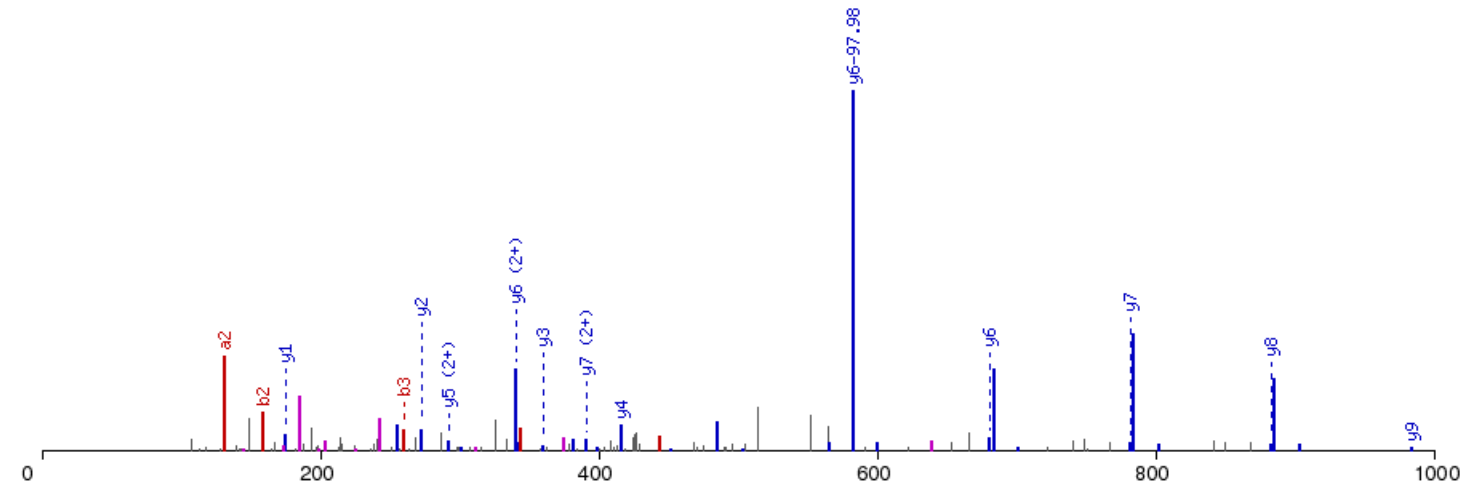
Key:	m/z out of range of spectrum			matched c-term ion			unmatched c-term ion			matched n-term ion			unmatched n-term ion		
	T	L	S	E	V	D	Y	A	P	A	G	P	A	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		187.14													a
b		215.14	302.17	431.21	530.28	645.31	888.34	959.38	1056.43	1127.47	1184.49	1281.54	1352.58		b
b-79.97							808.37	879.41	976.46	1047.50	1104.52	1201.57	1272.61		b-79.97
y		1425.64	1312.56	1225.52	1096.48	997.41	882.39	639.36	568.32	471.27	400.23	343.21	246.16	175.12	y
y-79.97		1345.67	1232.59	1145.56	1016.52	917.45	802.42								y-79.97
y (2+)		713.32	656.78	613.27	548.74	499.21	441.70	320.18	284.66	236.14	200.62	172.11	123.58	88.06	y (2+)
y-79.97 (2+)		673.34	616.80	573.28	508.76	459.23	401.71								y-79.97 (2+)
	T	L	S	E	V	D	Y	A	P	A	G	P	A	R	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

SATTTPS(+79.97)GSPR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 571.248, Calc. m/z: 571.252
Data File: Pepmix2_HCD.RAW.-1, Scans: 659 - 659

Max Intensity: 1.64e+05



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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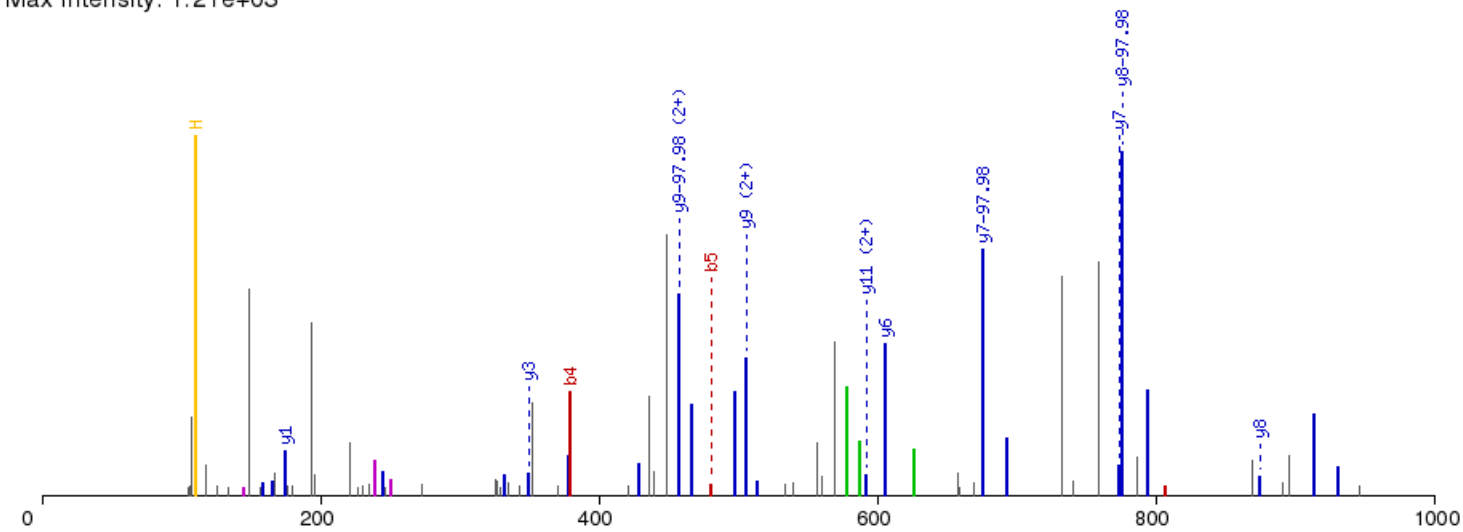
	S	A	T	T	T	P	S	G	S	P	R	
	1	2	3	4	5	6	7	8	9	10	11	
a		131.08										a
b		159.08	260.12	361.17	462.22	559.27	726.27	783.29	870.32	967.38		b
b-79.97							646.30	703.33	790.36	887.41		b-79.97
b-97.98							628.29	685.32	772.35	869.40		b-97.98
y		1054.46	983.42	882.37	781.32	680.28	583.22	416.23	359.20	272.17	175.12	y
y-79.97		974.49	903.45	802.41	701.36	600.31	503.26					y-79.97
y-97.98		956.48	885.44	784.39	683.35	582.30	485.25					y-97.98
y (2+)		527.73	492.21	441.69	391.17	340.64	292.12	208.62	180.11	136.59	88.06	y (2+)
y-79.97 (2+)		487.75	452.23	401.71	351.18	300.66	252.13					y-79.97 (2+)
y-97.98 (2+)		478.74	443.22	392.70	342.18	291.65	243.13					y-97.98 (2+)
	S	A	T	T	T	P	S	G	S	P	R	
	11	10	9	8	7	6	5	4	3	2	1	

AGIHTS(+79.97)GSLSSR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 626.788, Calc. m/z: 626.792
Data File: Pepmix3_HCD.RAW.-1, Scans: 964 - 964

Max Intensity: 1.21e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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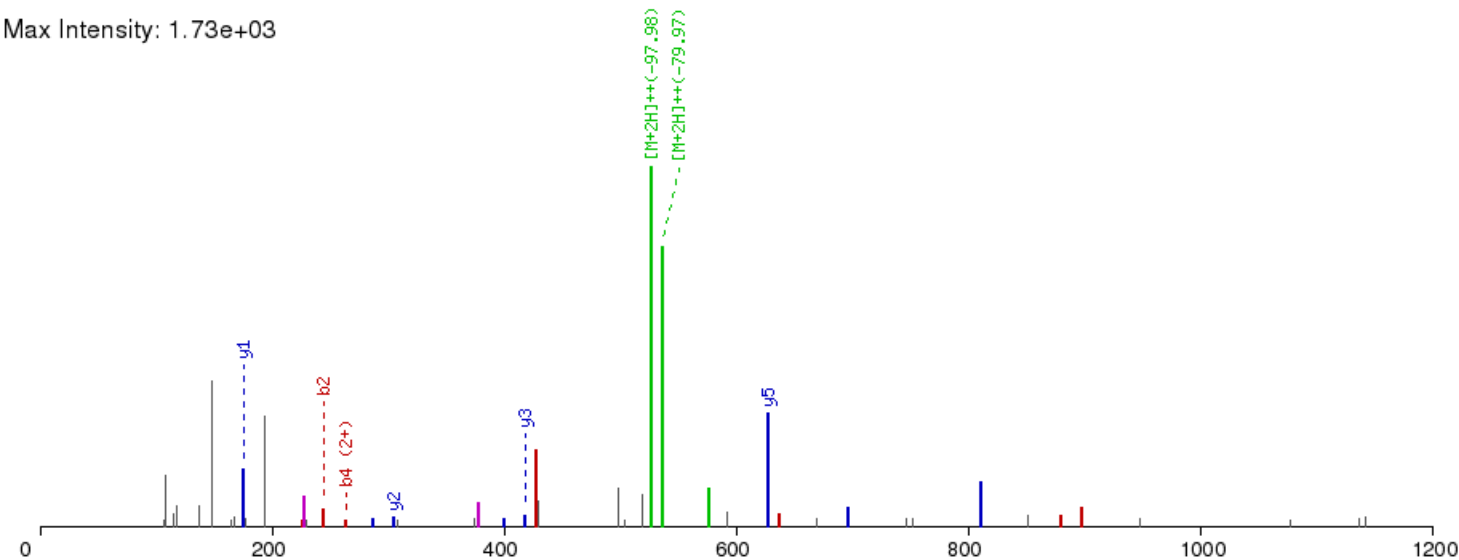
	A	G	I	H	T	S	G	S	L	S	S	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		101.07											a
b		129.07	242.15	379.21	480.26	647.25	704.28	791.31	904.39	991.42	1078.46		b
b-79.97						567.29	624.31	711.34	824.43	911.46	998.49		b-79.97
b-97.98						549.28	606.30	693.33	806.42	893.45	980.48		b-97.98
b (2+)				190.11	240.63	324.13	352.64	396.16	452.70	496.22	539.73		b (2+)
b-79.97 (2+)						284.15	312.66	356.17	412.72	456.23	499.75		b-79.97 (2+)
b-97.98 (2+)						275.14	303.65	347.17	403.71	447.23	490.74		b-97.98 (2+)
y		1181.53	1124.51	1011.43	874.37	773.32	606.32	549.30	462.27	349.18	262.15	175.12	y
y-79.97		1101.56	1044.54	931.46	794.40	693.35							y-79.97
y-97.98		1083.55	1026.53	913.45	776.39	675.34							y-97.98
y (2+)		591.27	562.76	506.22	437.69	387.16	303.66	275.15	231.64	175.10	131.58	88.06	y (2+)
y-79.97 (2+)		551.29	522.78	466.23	397.70	347.18							y-79.97 (2+)
y-97.98 (2+)		542.28	513.77	457.23	388.70	338.17							y-97.98 (2+)
	A	G	I	H	T	S	G	S	L	S	S	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

SRNS(+79.97)PLLER

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 576.283, Calc. m/z: 576.287
Data File: Pepmix3_HCD.RAW.-1, Scans: 973 - 973

Max Intensity: 1.73e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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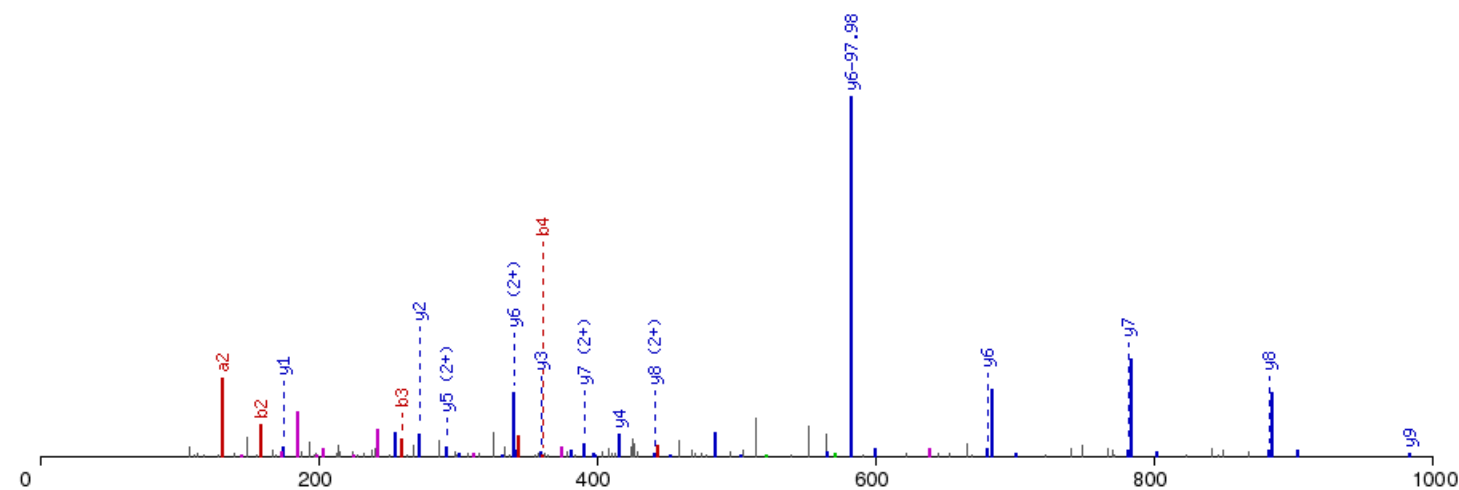
	S	R	N	S	P	L	L	E	R	
	1	2	3	4	5	6	7	8	9	
a		216.15								a
a (2+)		108.58								a (2+)
b		244.14	358.18	525.18	622.23	735.32	848.40	977.45		b
b-79.97				445.22	542.27	655.35	768.44	897.48		b-79.97
b-97.98				427.20	524.26	637.34	750.43	879.47		b-97.98
b (2+)		122.57	179.60	263.09	311.62	368.16	424.70	489.23		b (2+)
b-79.97 (2+)				223.11	271.64	328.18	384.72	449.24		b-79.97 (2+)
b-97.98 (2+)				214.11	262.63	319.17	375.72	440.24		b-97.98 (2+)
y		1064.52	908.42	794.38	627.38	530.33	417.25	304.16	175.12	y
y-79.97		984.56	828.46	714.41						y-79.97
y-97.98		966.55	810.45	696.40						y-97.98
y (2+)		532.77	454.72	397.69	314.19	265.67	209.13	152.58	88.06	y (2+)
y-79.97 (2+)		492.78	414.73	357.71						y-79.97 (2+)
y-97.98 (2+)		483.78	405.73	348.71						y-97.98 (2+)
	S	R	N	S	P	L	L	E	R	
	9	8	7	6	5	4	3	2	1	

SATTTPS(+79.97)GSPR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 571.248, Calc. m/z: 571.252
Data File: Pepmix2_HCD.RAW.-1, Scans: 671 - 671

Max Intensity: 1.62e+05



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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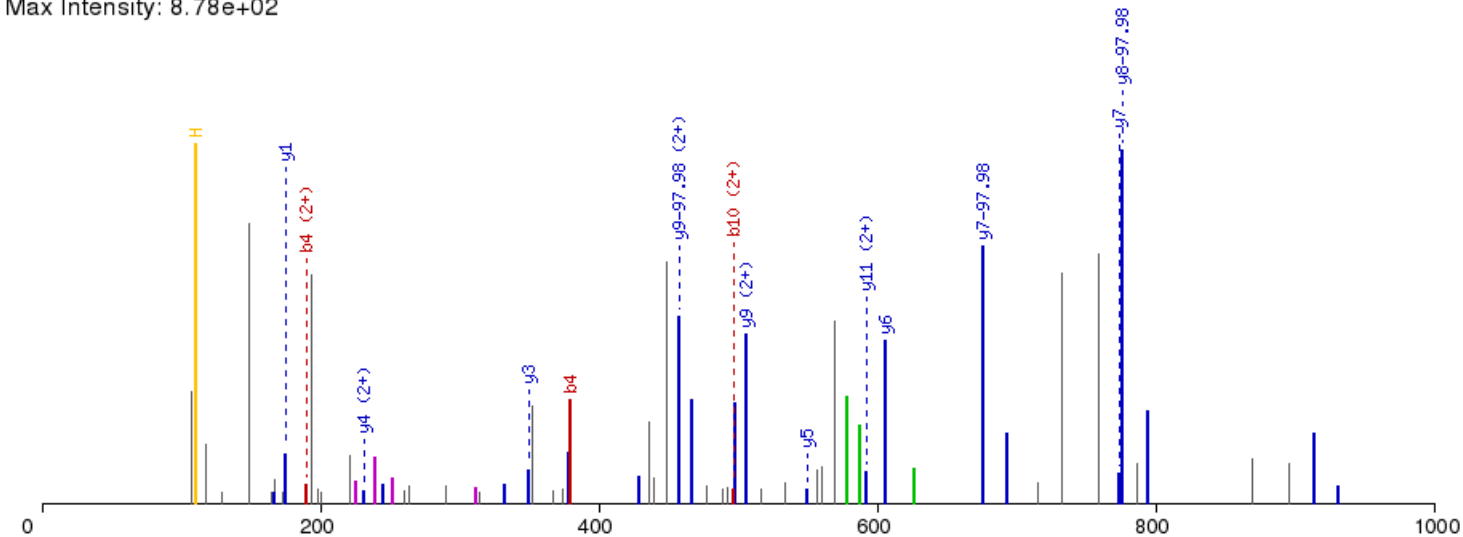
	S	A	T	T	T	P	S	G	S	P	R	
	1	2	3	4	5	6	7	8	9	10	11	
a		131.08										a
b		159.08	260.12	361.17	462.22	559.27	726.27	783.29	870.32	967.38		b
b-79.97							646.30	703.33	790.36	887.41		b-79.97
b-97.98							628.29	685.32	772.35	869.40		b-97.98
y		1054.46	983.42	882.37	781.32	680.28	583.22	416.23	359.20	272.17	175.12	y
y-79.97		974.49	903.45	802.41	701.36	600.31	503.26					y-79.97
y-97.98		956.48	885.44	784.39	683.35	582.30	485.25					y-97.98
y (2+)		527.73	492.21	441.69	391.17	340.64	292.12	208.62	180.11	136.59	88.06	y (2+)
y-79.97 (2+)		487.75	452.23	401.71	351.18	300.66	252.13					y-79.97 (2+)
y-97.98 (2+)		478.74	443.22	392.70	342.18	291.65	243.13					y-97.98 (2+)
	S	A	T	T	T	P	S	G	S	P	R	
	11	10	9	8	7	6	5	4	3	2	1	

AGIHTS(+79.97)GSLSSR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 626.788, Calc. m/z: 626.792
Data File: Pepmix3_HCD.RAW.-1, Scans: 971 - 971

Max Intensity: 8.78e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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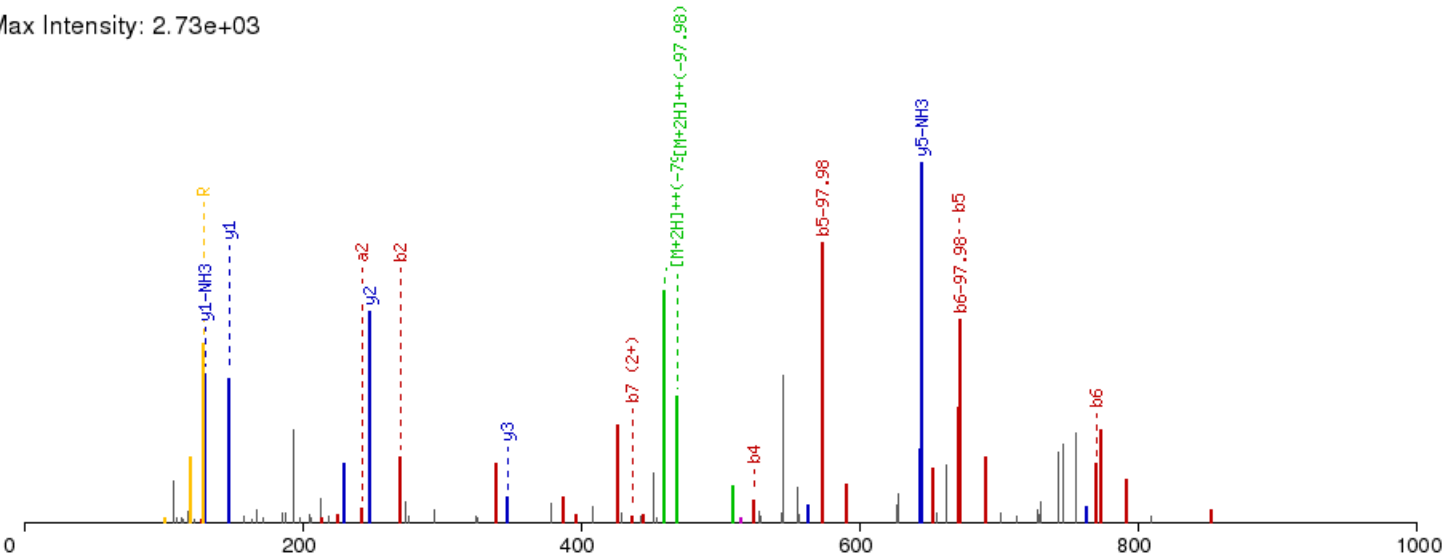
	A	G	I	H	T	S	G	S	L	S	S	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		101.07											a
b		129.07	242.15	379.21	480.26	647.25	704.28	791.31	904.39	991.42	1078.46		b
b-79.97						567.29	624.31	711.34	824.43	911.46	998.49		b-79.97
b-97.98						549.28	606.30	693.33	806.42	893.45	980.48		b-97.98
b (2+)				190.11	240.63	324.13	352.64	396.16	452.70	496.22	539.73		b (2+)
b-79.97 (2+)						284.15	312.66	356.17	412.72	456.23	499.75		b-79.97 (2+)
b-97.98 (2+)						275.14	303.65	347.17	403.71	447.23	490.74		b-97.98 (2+)
y		1181.53	1124.51	1011.43	874.37	773.32	606.32	549.30	462.27	349.18	262.15	175.12	y
y-79.97		1101.56	1044.54	931.46	794.40	693.35							y-79.97
y-97.98		1083.55	1026.53	913.45	776.39	675.34							y-97.98
y (2+)		591.27	562.76	506.22	437.69	387.16	303.66	275.15	231.64	175.10	131.58	88.06	y (2+)
y-79.97 (2+)		551.29	522.78	466.23	397.70	347.18							y-79.97 (2+)
y-97.98 (2+)		542.28	513.77	457.23	388.70	338.17							y-97.98 (2+)
	A	G	I	H	T	S	G	S	L	S	S	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

RLSS(+79.97)FVTK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 509.260, Calc. m/z: 509.262
Data File: Pepmix1_HCD.RAW.-1, Scans: 1315 - 1315

Max Intensity: 2.73e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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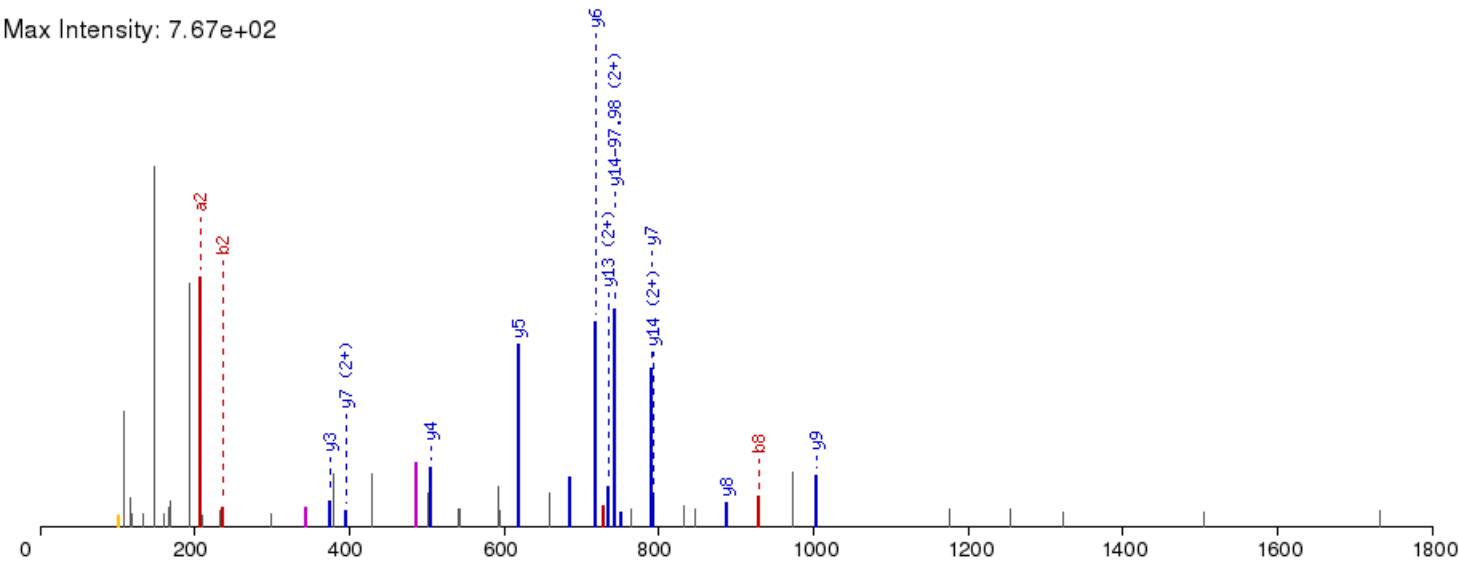
	R	L	S	S	F	V	T	K	
	1	2	3	4	5	6	7	8	
a		242.20							a
a (2+)		121.60							a (2+)
b		270.19	357.22	524.22	671.29	770.36	871.41		b
b-79.97				444.26	591.32	690.39	791.44		b-79.97
b-97.98				426.25	573.31	672.38	773.43		b-97.98
b (2+)		135.60	179.12	262.62	336.15	385.68	436.21		b (2+)
b-79.97 (2+)				222.63	296.17	345.70	396.22		b-79.97 (2+)
b-97.98 (2+)				213.63	287.16	336.70	387.22		b-97.98 (2+)
y		861.41	748.33	661.30	494.30	347.23	248.16	147.11	y
y-79.97		781.45	668.36	581.33					y-79.97
y-97.98		763.43	650.35	563.32					y-97.98
y (2+)		431.21	374.67	331.15	247.65	174.12	124.58	74.06	y (2+)
y-79.97 (2+)		391.23	334.68	291.17					y-79.97 (2+)
y-97.98 (2+)		382.22	325.68	282.16					y-97.98 (2+)
	R	L	S	S	F	V	T	K	
	8	7	6	5	4	3	2	1	

SFNGS(+79.97)LKNVAVDELSR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 605.960, Calc. m/z: 605.961
Data File: Pepmix4_HCD.RAW.-1, Scans: 1699 - 1699

Max Intensity: 7.67e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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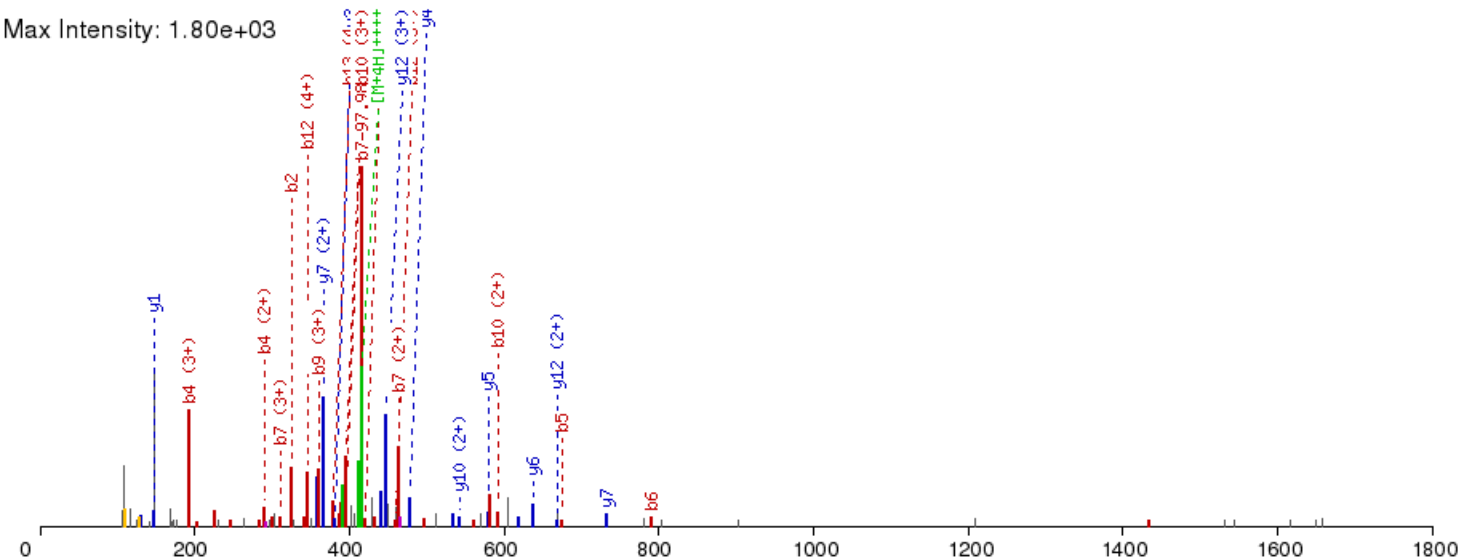
	S	F	N	G	S	L	K	N	V	A	V	D	E	L	S	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
a		207.11															a
b		235.11	349.15	406.17	573.17	686.25	814.35	928.39	1027.46	1098.50	1197.57	1312.59	1441.64	1554.72	1641.75		b
b-79.97					493.20	606.29	734.38	848.43	947.49	1018.53	1117.60	1232.63	1361.67	1474.75	1561.79		b-79.97
b-97.98					475.19	588.28	716.37	830.42	929.48	1000.52	1099.59	1214.62	1343.66	1456.74	1543.78		b-97.98
b (2+)							407.68	464.70	514.23	549.75	599.29	656.80	721.32	777.86	821.38		b (2+)
b-79.97 (2+)							367.70	424.72	474.25	509.77	559.30	616.82	681.34	737.88	781.40		b-79.97 (2+)
b-97.98 (2+)							358.69	415.71	465.25	500.76	550.30	607.81	672.33	728.88	772.39		b-97.98 (2+)
y		1728.83	1581.76	1467.72	1410.70	1243.70	1130.62	1002.52	888.48	789.41	718.37	619.30	504.28	375.24	262.15	175.12	y
y-79.97		1648.87	1501.80	1387.75	1330.73												y-79.97
y-97.98		1630.85	1483.79	1369.74	1312.72												y-97.98
y (2+)		864.92	791.39	734.36	705.85	622.35	565.81	501.76	444.74	395.21	359.69	310.16	252.64	188.12	131.58	88.06	y (2+)
y-79.97 (2+)		824.94	751.40	694.38	665.87												y-79.97 (2+)
y-97.98 (2+)		815.93	742.40	685.38	656.86												y-97.98 (2+)
y (3+)		576.95	527.93	489.91	470.90	415.24	377.54										y (3+)
y-79.97 (3+)		550.29	501.27	463.26	444.25												y-79.97 (3+)
y-97.98 (3+)		544.29	495.27	457.25	438.25												y-97.98 (3+)
	S	F	N	G	S	L	K	N	V	A	V	D	E	L	S	R	
	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

RS(+79.97)PRPDHPGTPPHK

Identified in MSS769 1 x Phospho (ST)

Charge: 4, Exp. m/z: 415.453, Calc. m/z: 415.452
Data File: Pepmix4_HCD.RAW.-1, Scans: 540 - 540

Max Intensity: 1.80e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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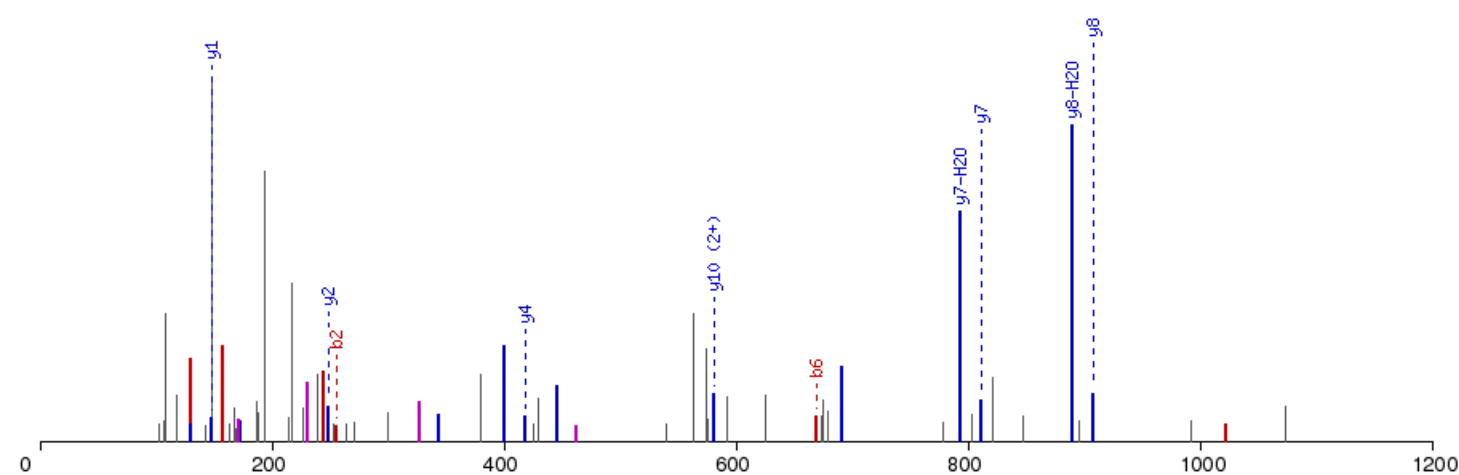
	R	S	P	R	P	D	H	P	G	T	P	P	H	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		296.11													a
a-79.97		216.15													a-79.97
a-97.98		198.13													a-97.98
a (2+)		148.56													a (2+)
a-79.97 (2+)		108.58													a-79.97 (2+)
a-97.98 (2+)		99.57													a-97.98 (2+)
b		324.11	421.16	577.26	674.31	789.34	926.40	1023.45	1080.47	1181.52	1278.57	1375.63	1512.69		b
b-79.97		244.14	341.19	497.29	594.35	709.37	846.43	943.49	1000.51	1101.55	1198.61	1295.66	1432.72		b-79.97
b-97.98		226.13	323.18	479.28	576.34	691.36	828.42	925.48	982.50	1083.54	1180.60	1277.65	1414.71		b-97.98
b (2+)		162.56	211.08	289.13	337.66	395.17	463.70	512.23	540.74	591.26	639.79	688.32	756.85		b (2+)
b-79.97 (2+)		122.57	171.10	249.15	297.68	355.19	423.72	472.25	500.76	551.28	599.81	648.33	716.86		b-79.97 (2+)
b-97.98 (2+)		113.57	162.09	240.15	288.67	346.19	414.71	463.24	491.75	542.28	590.80	639.33	707.86		b-97.98 (2+)
b (3+)				193.09	225.44	263.78	309.47	341.82	360.83	394.51	426.86	459.21	504.90		b (3+)
b-79.97 (3+)				166.44	198.79	237.13	282.82	315.17	334.17	367.86	400.21	432.56	478.24		b-79.97 (3+)
b-97.98 (3+)				160.43	192.78	231.13	276.81	309.16	328.17	361.85	394.20	426.55	472.24		b-97.98 (3+)
b (4+)							232.36	256.62	270.87	296.14	320.40	344.66	378.93		b (4+)
b-79.97 (4+)							212.36	236.63	250.88	276.14	300.41	324.67	358.94		b-79.97 (4+)
b-97.98 (4+)							207.86	232.12	246.38	271.64	295.90	320.17	354.43		b-97.98 (4+)
y		1502.69	1335.69	1238.64	1082.54	985.49	870.46	733.40	636.35	579.32	478.28	381.22	284.17	147.11	y
y-79.97		1422.72													y-79.97
y-97.98		1404.71													y-97.98
y (2+)		751.85	668.35	619.82	541.77	493.25	435.73	367.20	318.68	290.17	239.64	191.12	142.59	74.06	y (2+)
y-79.97 (2+)		711.87													y-79.97 (2+)
y-97.98 (2+)		702.86													y-97.98 (2+)
y (3+)		501.57	445.90	413.55	361.52	329.17	290.82	245.14	212.79	193.78	160.10	127.75	95.40		y (3+)
y-79.97 (3+)		474.91													y-79.97 (3+)
y-97.98 (3+)		468.91													y-97.98 (3+)
y (4+)		376.43	334.68	310.42	271.39	247.13	218.37								y (4+)
y-79.97 (4+)		356.44													y-79.97 (4+)
y-97.98 (4+)		351.93													y-97.98 (4+)
	R	S	P	R	P	D	H	P	G	T	P	P	H	K	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

SS(+79.97)SPTQYGLTK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 624.780, Calc. m/z: 624.782
Data File: Pepmix5_HCD.RAW.-1, Scans: 1002 - 1002

Max Intensity: 6.69e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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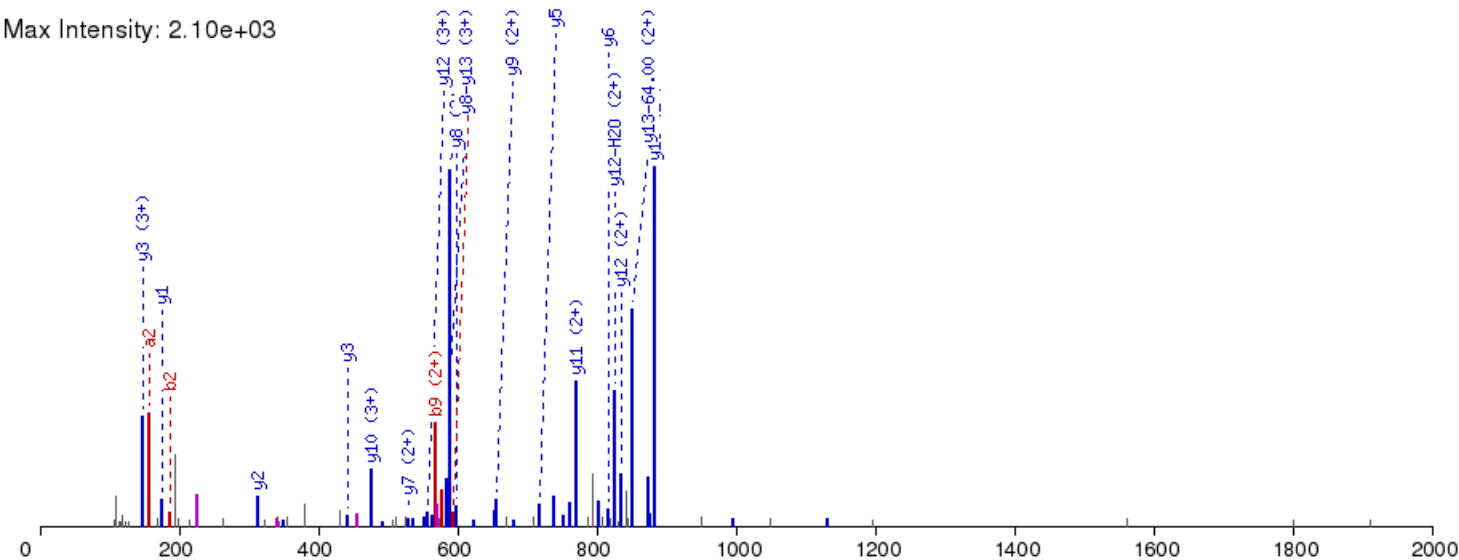
	S	S	S	P	T	Q	Y	G	L	T	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		227.04										a
a-79.97		147.08										a-79.97
a-97.98		129.07										a-97.98
b		255.04	342.07	439.12	540.17	668.23	831.29	888.31	1001.40	1102.45		b
b-79.97		175.07	262.10	359.16	460.20	588.26	751.33	808.35	921.43	1022.48		b-79.97
b-97.98		157.06	244.09	341.15	442.19	570.25	733.32	790.34	903.42	1004.47		b-97.98
y		1161.52	994.52	907.49	810.44	709.39	581.33	418.27	361.24	248.16	147.11	y
y-79.97		1081.55										y-79.97
y-97.98		1063.54										y-97.98
y (2+)		581.26	497.76	454.25	405.72	355.20	291.17	209.64	181.13	124.58	74.06	y (2+)
y-79.97 (2+)		541.28										y-79.97 (2+)
y-97.98 (2+)		532.27										y-97.98 (2+)
	S	S	S	P	T	Q	Y	G	L	T	K	
	11	10	9	8	7	6	5	4	3	2	1	

ALPQNDDHY(+79.97)VM(+15.99)QEHR

Identified in MSS769 1 x Phospho (Y) 1 x Oxidation (M)

Charge: 3, Exp. m/z: 650.272, Calc. m/z: 650.271
Data File: Pepmix5_HCD.RAW.-1, Scans: 934 - 934

Max Intensity: 2.10e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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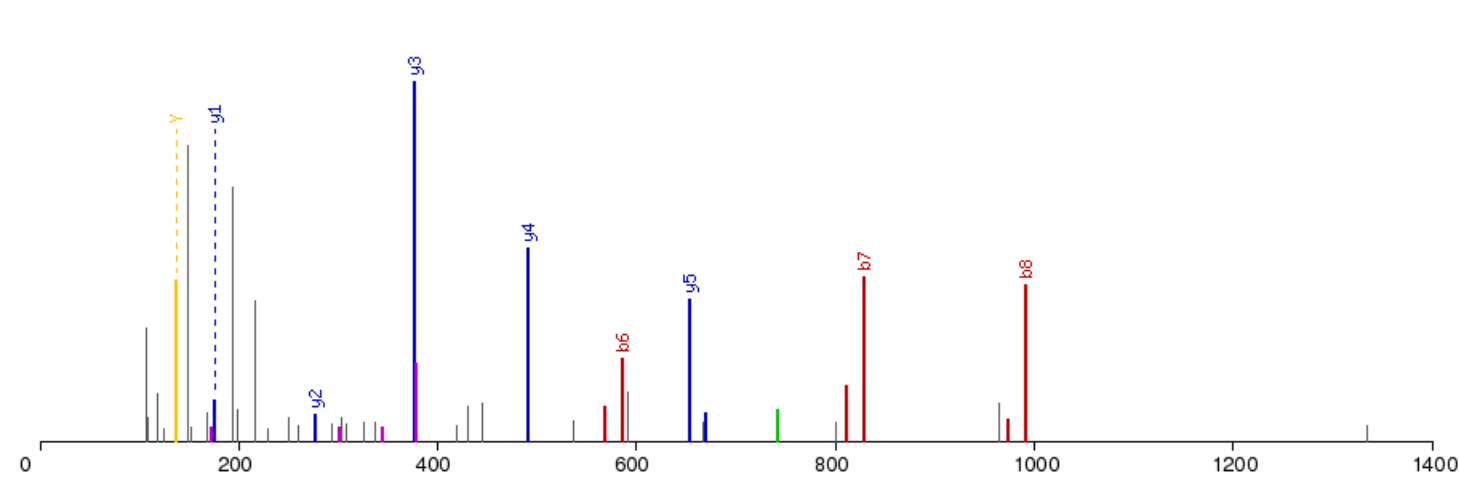
	A	L	P	Q	N	D	D	H	Y	V	M	Q	E	H	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
a		157.13														a
b		185.13	282.18	410.24	524.28	639.31	754.34	891.40	1134.43	1233.49	1380.53	1508.59	1637.63	1774.69		b
b-15.99											1364.53	1492.59	1621.64	1758.69		b-15.99
b-64.00											1316.53	1444.59	1573.63	1710.69		b-64.00
b-79.97									1054.46	1153.53	1300.56	1428.62	1557.66	1694.72		b-79.97
b (2+)								446.20	567.72	617.25	690.77	754.80	819.32	887.85		b (2+)
b-15.99 (2+)											682.77	746.80	811.32	879.85		b-15.99 (2+)
b-64.00 (2+)											658.77	722.80	787.32	855.85		b-64.00 (2+)
b-79.97 (2+)									527.73	577.27	650.78	714.81	779.34	847.87		b-79.97 (2+)
b (3+)														592.23		b (3+)
b-15.99 (3+)														586.90		b-15.99 (3+)
b-64.00 (3+)														570.90		b-64.00 (3+)
b-79.97 (3+)														565.58		b-79.97 (3+)
y		1877.76	1764.68	1667.63	1539.57	1425.53	1310.50	1195.47	1058.41	815.38	716.31	569.28	441.22	312.18	175.12	y
y-15.99		1861.77	1748.68	1651.63	1523.57	1409.53	1294.50	1179.48	1042.42	799.39	700.32					y-15.99
y-64.00		1813.77	1700.68	1603.63	1475.57	1361.53	1246.50	1131.47	994.41	751.38	652.32					y-64.00
y-79.97		1797.80	1684.71	1587.66	1459.60	1345.56	1230.53	1115.51	978.45							y-79.97
y (2+)		939.39	882.84	834.32	770.29	713.27	655.75	598.24	529.71	408.20	358.66	285.14	221.11	156.59	88.06	y (2+)
y-15.99 (2+)		931.39	874.85	826.32	762.29	705.27	647.76	590.24	521.71	400.20	350.66					y-15.99 (2+)
y-64.00 (2+)		907.39	850.84	802.32	738.29	681.27	623.75	566.24	497.71	376.20	326.66					y-64.00 (2+)
y-79.97 (2+)		899.40	842.86	794.33	730.30	673.28	615.77	558.26	489.73							y-79.97 (2+)
y (3+)		626.59	588.90	556.55	513.86	475.85	437.50	399.16	353.48	272.47	239.44	190.43	147.75	104.73		y (3+)
y-15.99 (3+)		621.26	583.57	551.22	508.53	470.51	432.17	393.83	348.14	267.13	234.11					y-15.99 (3+)
y-64.00 (3+)		605.26	567.57	535.21	492.53	454.51	416.17	377.83	332.14	251.13	218.11					y-64.00 (3+)
y-79.97 (3+)		599.94	562.24	529.89	487.21	449.19	410.85	372.51	326.82							y-79.97 (3+)
	A	L	P	Q	N	D	D	H	Y	V	M	Q	E	H	R	
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

KLDNGGY(+79.97)YITTR

Identified in MSS769 1 x Phospho (Y)

Charge: 3, Exp. m/z: 494.233, Calc. m/z: 494.234
Data File: Pepmix2_HCD.RAW.-1, Scans: 1304 - 1304

Max Intensity: 7.16e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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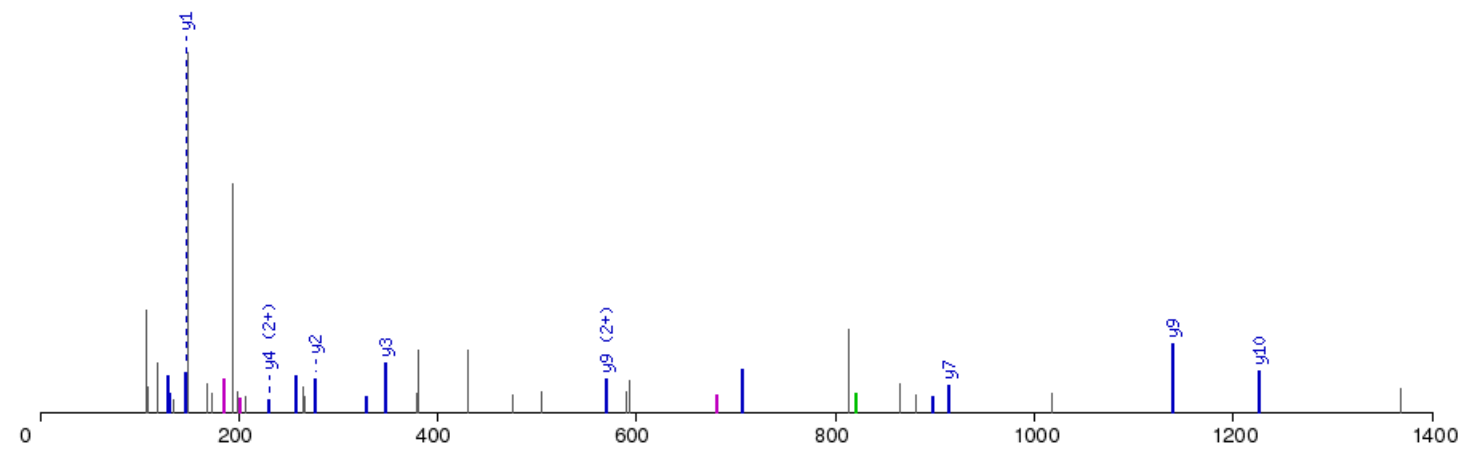
	K	L	D	N	G	G	Y	Y	I	T	T	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		214.19											a
a (2+)		107.60											a (2+)
b		242.19	357.21	471.26	528.28	585.30	828.33	991.39	1104.48	1205.52	1306.57		b
b-79.97							748.36	911.43	1024.51	1125.56	1226.61		b-79.97
b (2+)		121.60	179.11	236.13	264.64	293.15	414.67	496.20	552.74	603.27	653.79		b (2+)
b-79.97 (2+)							374.68	456.22	512.76	563.28	613.81		b-79.97 (2+)
y		1352.59	1239.50	1124.48	1010.43	953.41	896.39	653.36	490.30	377.21	276.17	175.12	y
y-79.97		1272.62	1159.54	1044.51	930.47	873.45	816.43						y-79.97
y (2+)		676.80	620.26	562.74	505.72	477.21	448.70	327.18	245.65	189.11	138.59	88.06	y (2+)
y-79.97 (2+)		636.81	580.27	522.76	465.74	437.23	408.72						y-79.97 (2+)
	K	L	D	N	G	G	Y	Y	I	T	T	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

ETTT(+79.97)SPKKYYLAEK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 869.921, Calc. m/z: 869.922
Data File: Pepmix5_HCD.RAW.-1, Scans: 1080 - 1080

Max Intensity: 7.13e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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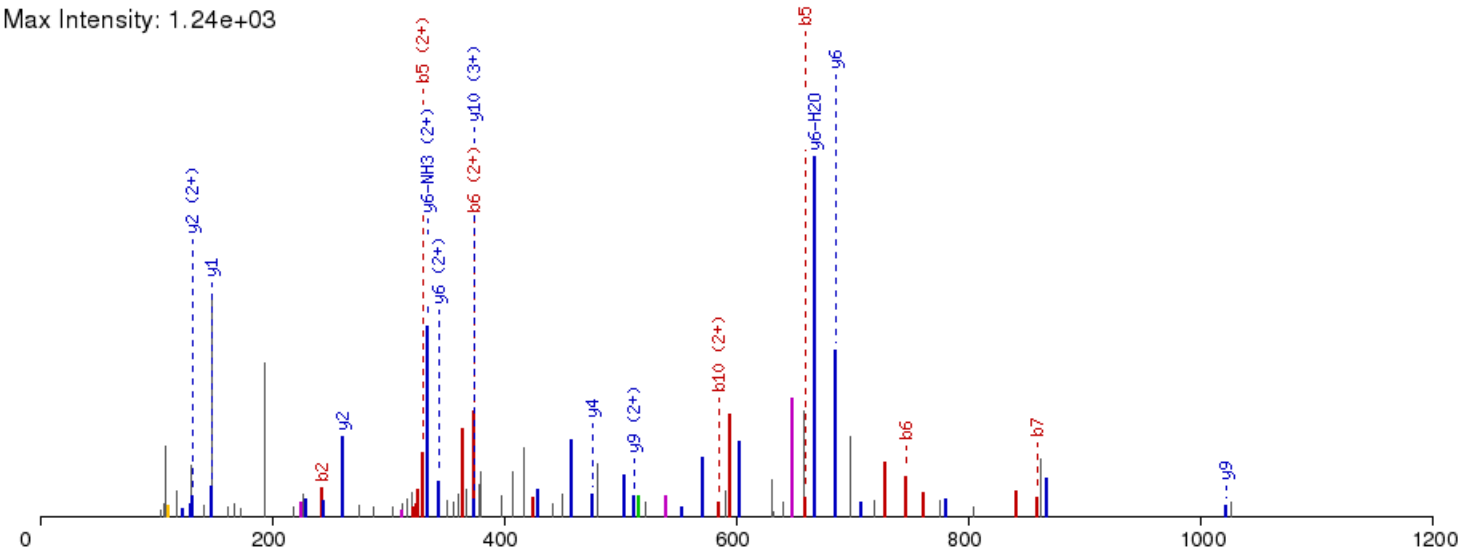
	E	T	T	T	S	P	K	K	Y	Y	L	A	E	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		203.10													a
b		231.10	332.15	513.16	600.19	697.24	825.34	953.43	1116.50	1279.56	1392.64	1463.68	1592.72		b
b-79.97				433.19	520.22	617.28	745.37	873.47	1036.53	1199.59	1312.68	1383.72	1512.76		b-79.97
b-97.98				415.18	502.21	599.27	727.36	855.46	1018.52	1181.58	1294.67	1365.70	1494.75		b-97.98
b (2+)							413.17	477.22	558.75	640.28	696.83	732.34	796.87		b (2+)
b-79.97 (2+)							373.19	437.24	518.77	600.30	656.84	692.36	756.88		b-79.97 (2+)
b-97.98 (2+)							364.18	428.23	509.76	591.30	647.84	683.36	747.88		b-97.98 (2+)
y		1609.79	1508.74	1407.69	1226.68	1139.65	1042.59	914.50	786.40	623.34	460.28	347.19	276.16	147.11	y
y-79.97		1529.82	1428.77	1327.73											y-79.97
y-97.98		1511.81	1410.76	1309.72											y-97.98
y (2+)		805.40	754.87	704.35	613.84	570.33	521.80	457.75	393.71	312.17	230.64	174.10	138.58	74.06	y (2+)
y-79.97 (2+)		765.41	714.89	664.37											y-79.97 (2+)
y-97.98 (2+)		756.41	705.88	655.36											y-97.98 (2+)
	E	T	T	T	S	P	K	K	Y	Y	L	A	E	K	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

LQT(+79.97)VHSIPLTINK

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 515.279, Calc. m/z: 515.281
Data File: Pepmix1_HCD.RAW.-1, Scans: 1329 - 1329

Max Intensity: 1.24e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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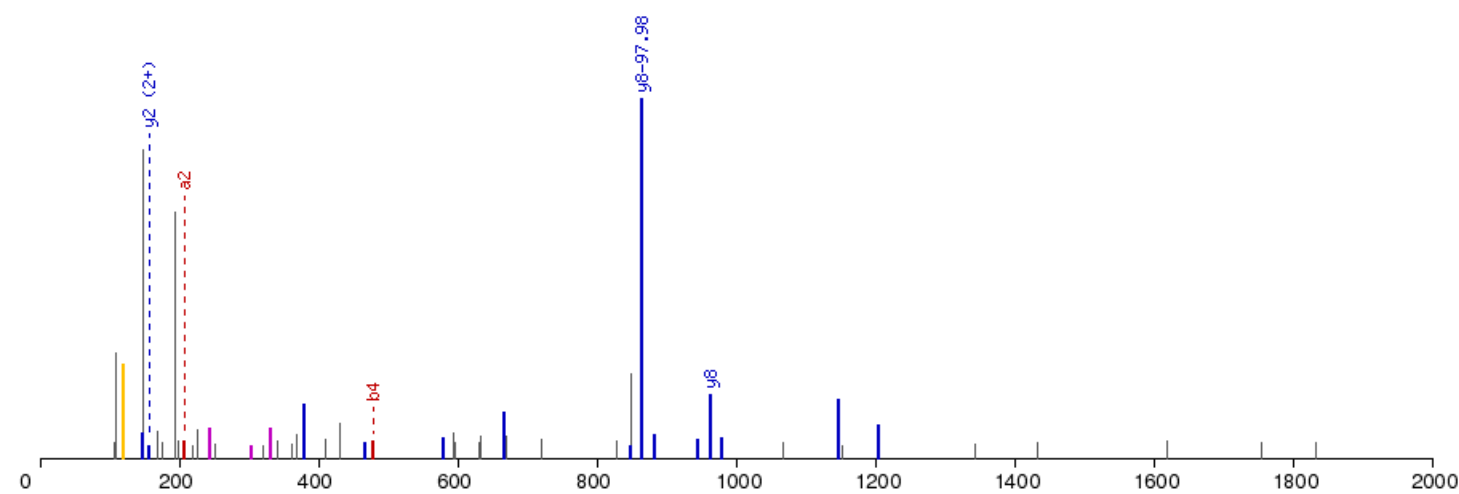
	L	Q	T	V	H	S	I	P	L	T	I	N	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	
a		214.16												a
b		242.15	423.16	522.23	659.29	746.32	859.41	956.46	1069.54	1170.59	1283.68	1397.72		b
b-79.97			343.20	442.27	579.32	666.36	779.44	876.49	989.58	1090.63	1203.71	1317.75		b-79.97
b-97.98			325.19	424.26	561.31	648.35	761.43	858.48	971.57	1072.61	1185.70	1299.74		b-97.98
b (2+)					330.15	373.67	430.21	478.73	535.28	585.80	642.34	699.36		b (2+)
b-79.97 (2+)					290.17	333.68	390.22	438.75	495.29	545.82	602.36	659.38		b-79.97 (2+)
b-97.98 (2+)					281.16	324.68	381.22	429.75	486.29	536.81	593.35	650.37		b-97.98 (2+)
y		1430.74	1302.68	1121.67	1022.60	885.54	798.51	685.42	588.37	475.29	374.24	261.16	147.11	y
y-79.97		1350.77	1222.72											y-79.97
y-97.98		1332.76	1204.70											y-97.98
y (2+)		715.87	651.84	561.34	511.80	443.27	399.76	343.22	294.69	238.15	187.62	131.08	74.06	y (2+)
y-79.97 (2+)		675.89	611.86											y-79.97 (2+)
y-97.98 (2+)		666.89	602.86											y-97.98 (2+)
y (3+)		477.58	434.90	374.56	341.54									y (3+)
y-79.97 (3+)		450.93	408.24											y-79.97 (3+)
y-97.98 (3+)		444.93	402.24											y-97.98 (3+)
	L	Q	T	V	H	S	I	P	L	T	I	N	K	
	13	12	11	10	9	8	7	6	5	4	3	2	1	

FSDQAGPAIPTSNSYS(+79.97)K

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 925.406, Calc. m/z: 925.407
Data File: Pepmix5_HCD.RAW.-1, Scans: 1366 - 1366

Max Intensity: 7.83e+02



Sequence Ladder Ions

Key: m/z out of range of spectrum matched c-term ion unmatched c-term ion matched n-term ion unmatched n-term ion

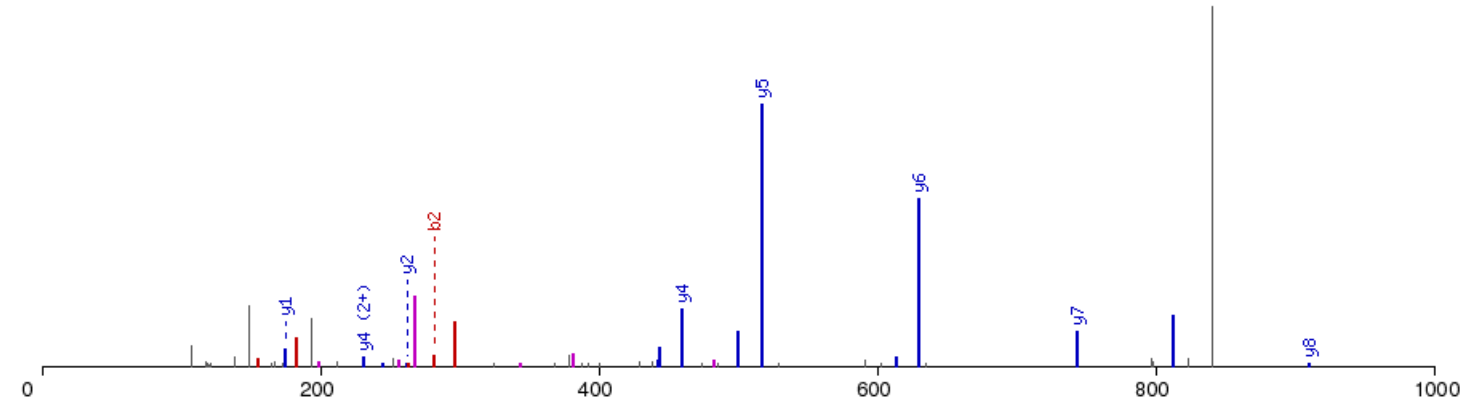
	F	S	D	Q	A	G	P	A	I	P	T	S	N	S	Y	S	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
a		207.11																a
b		235.11	350.13	478.19	549.23	606.25	703.30	774.34	887.43	984.48	1085.53	1172.56	1286.60	1373.63	1536.70	1703.69		b
b-79.97																1623.73		b-79.97
b-97.98																1605.72		b-97.98
y		1702.73	1615.70	1500.67	1372.61	1301.58	1244.56	1147.50	1076.47	963.38	866.33	765.28	678.25	564.21	477.17	314.11	147.11	y
y-79.97		1622.77	1535.73	1420.71	1292.65	1221.61	1164.59	1067.54	996.50	883.42	786.36	685.32	598.28	484.24	397.21	234.14		y-79.97
y-97.98		1604.76	1517.72	1402.70	1274.64	1203.60	1146.58	1049.53	978.49	865.40	768.35	667.30	580.27	466.23	379.20	216.13		y-97.98
y (2+)		851.87	808.35	750.84	686.81	651.29	622.78	574.26	538.74	482.19	433.67	383.14	339.63	282.61	239.09	157.56	74.06	y (2+)
y-79.97 (2+)		811.89	768.37	710.86	646.83	611.31	582.80	534.27	498.75	442.21	393.69	343.16	299.65	242.62	199.11	117.58		y-79.97 (2+)
y-97.98 (2+)		802.88	759.37	701.85	637.82	602.30	573.79	525.27	489.75	433.21	384.68	334.16	290.64	233.62	190.10	108.57		y-97.98 (2+)
	F	S	D	Q	A	G	P	A	I	P	T	S	N	S	Y	S	K	
	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

LS(+79.97)IIGPTSR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 512.266, Calc. m/z: 512.267
Data File: Pepmix2_HCD.RAW.-1, Scans: 1599 - 1599

Max Intensity: 4.12e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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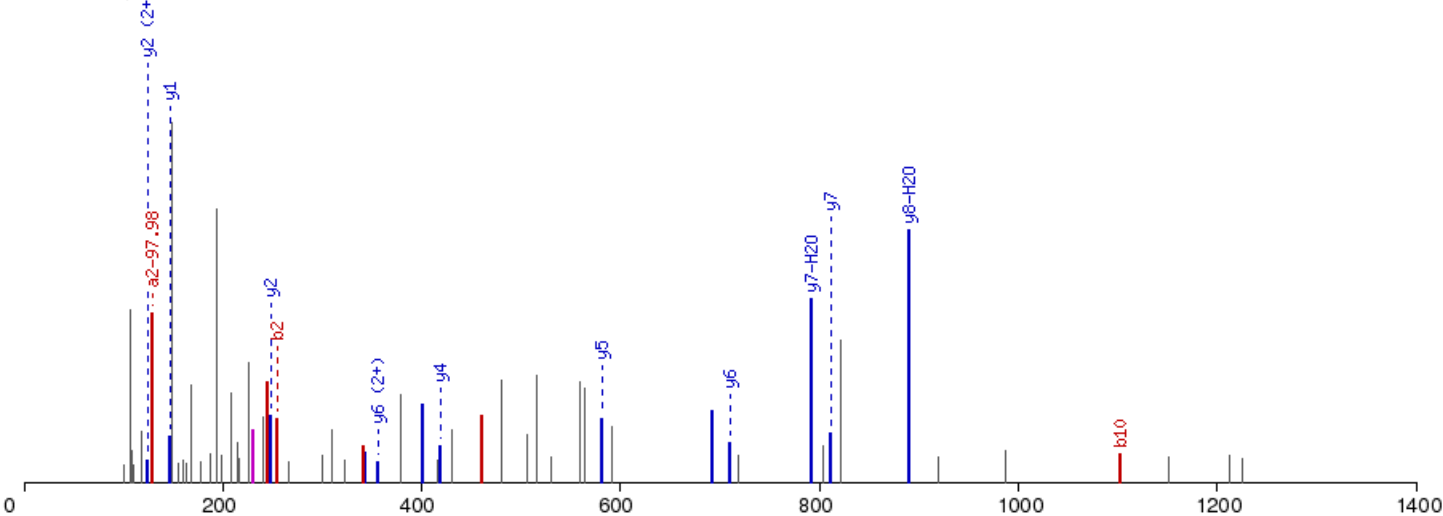
	L	S	I	I	G	P	T	S	R	
	1	2	3	4	5	6	7	8	9	
a		253.09								a
a-79.97		173.13								a-79.97
a-97.98		155.12								a-97.98
b		281.09	394.17	507.26	564.28	661.33	762.38	849.41		b
b-79.97		201.12	314.21	427.29	484.31	581.37	682.41	769.45		b-79.97
b-97.98		183.11	296.20	409.28	466.30	563.36	664.40	751.43		b-97.98
y		910.44	743.44	630.36	517.27	460.25	363.20	262.15	175.12	y
y-79.97		830.47								y-79.97
y-97.98		812.46								y-97.98
y (2+)		455.72	372.22	315.68	259.14	230.63	182.10	131.58	88.06	y (2+)
y-79.97 (2+)		415.74								y-79.97 (2+)
y-97.98 (2+)		406.73								y-97.98 (2+)
	L	S	I	I	G	P	T	S	R	
	9	8	7	6	5	4	3	2	1	

S(+79.97)SSPTQYGLTK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 624.780, Calc. m/z: 624.782
Data File: Pepmix3_HCD.RAW.-1, Scans: 1040 - 1040

Max Intensity: 5.30e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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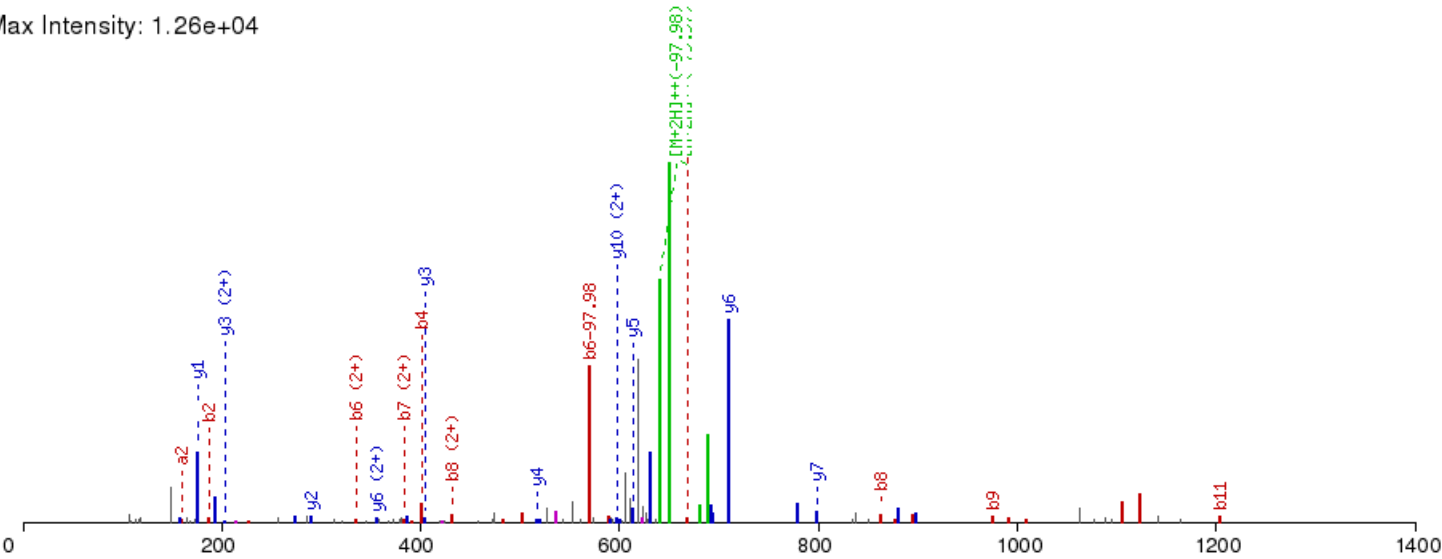
	S	S	S	P	T	Q	Y	G	L	T	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		227.04										a
a-79.97		147.08										a-79.97
a-97.98		129.07										a-97.98
b		255.04	342.07	439.12	540.17	668.23	831.29	888.31	1001.40	1102.45		b
b-79.97		175.07	262.10	359.16	460.20	588.26	751.33	808.35	921.43	1022.48		b-79.97
b-97.98		157.06	244.09	341.15	442.19	570.25	733.32	790.34	903.42	1004.47		b-97.98
y		1081.55	994.52	907.49	810.44	709.39	581.33	418.27	361.24	248.16	147.11	y
y (2+)		541.28	497.76	454.25	405.72	355.20	291.17	209.64	181.13	124.58	74.06	y (2+)
	S	S	S	P	T	Q	Y	G	L	T	K	
	11	10	9	8	7	6	5	4	3	2	1	

VSGRT(+79.97)SPPLDR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 689.348, Calc. m/z: 689.352
Data File: Pepmix5_HCD.RAW.-1, Scans: 1162 - 1162

Max Intensity: 1.26e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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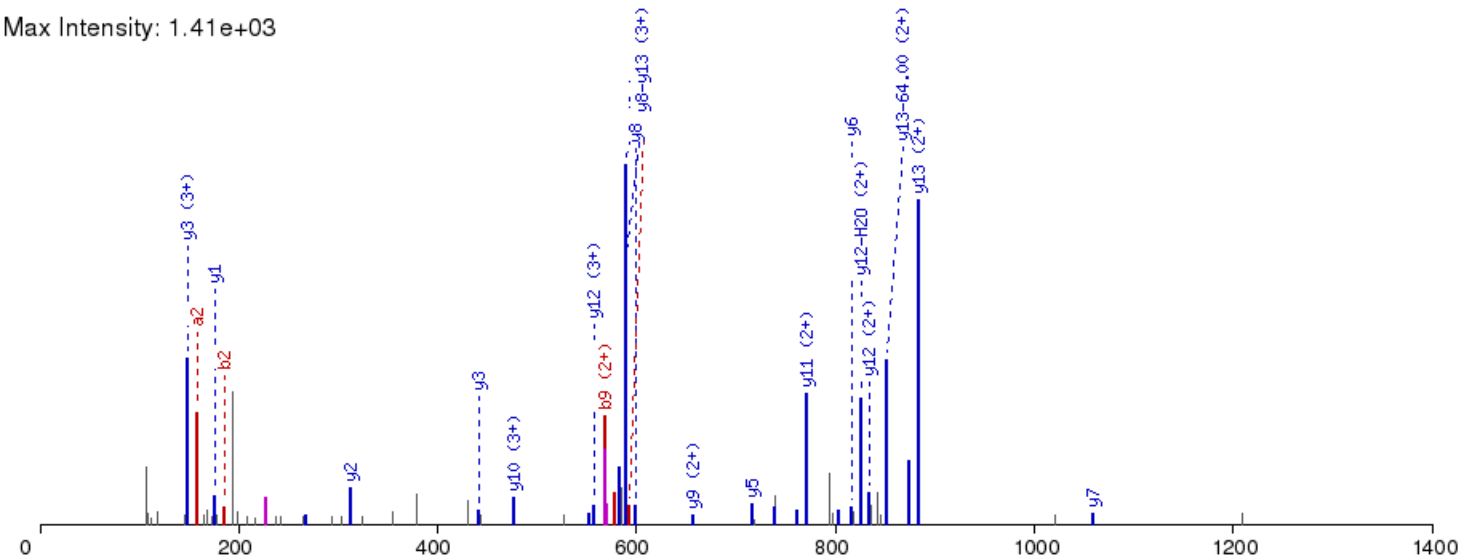
	V	S	G	R	T	S	P	P	L	L	D	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		159.11											a
b		187.11	244.13	400.23	581.24	668.28	765.33	862.38	975.47	1088.55	1203.58		b
b-79.97					501.28	588.31	685.36	782.42	895.50	1008.58	1123.61		b-79.97
b-97.98					483.27	570.30	667.35	764.40	877.49	990.57	1105.60		b-97.98
b (2+)				200.62	291.13	334.64	383.17	431.69	488.24	544.78	602.29		b (2+)
b-79.97 (2+)					251.14	294.66	343.19	391.71	448.25	504.80	562.31		b-79.97 (2+)
b-97.98 (2+)					242.14	285.65	334.18	382.71	439.25	495.79	553.30		b-97.98 (2+)
y		1278.62	1191.59	1134.57	978.47	797.45	710.42	613.37	516.31	403.23	290.15	175.12	y
y-79.97		1198.65	1111.62	1054.60	898.50								y-79.97
y-97.98		1180.64	1093.61	1036.59	880.49								y-97.98
y (2+)		639.81	596.30	567.79	489.74	399.23	355.71	307.19	258.66	202.12	145.58	88.06	y (2+)
y-79.97 (2+)		599.83	556.31	527.80	449.75								y-79.97 (2+)
y-97.98 (2+)		590.83	547.31	518.80	440.75								y-97.98 (2+)
	V	S	G	R	T	S	P	P	L	L	D	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

ALPQNDDHY(+79.97)VM(+15.99)QEHR

Identified in MSS769 1 x Phospho (Y) 1 x Oxidation (M)

Charge: 3, Exp. m/z: 650.272, Calc. m/z: 650.274
Data File: Pepmix5_HCD.RAW.-1, Scans: 942 - 942

Max Intensity: 1.41e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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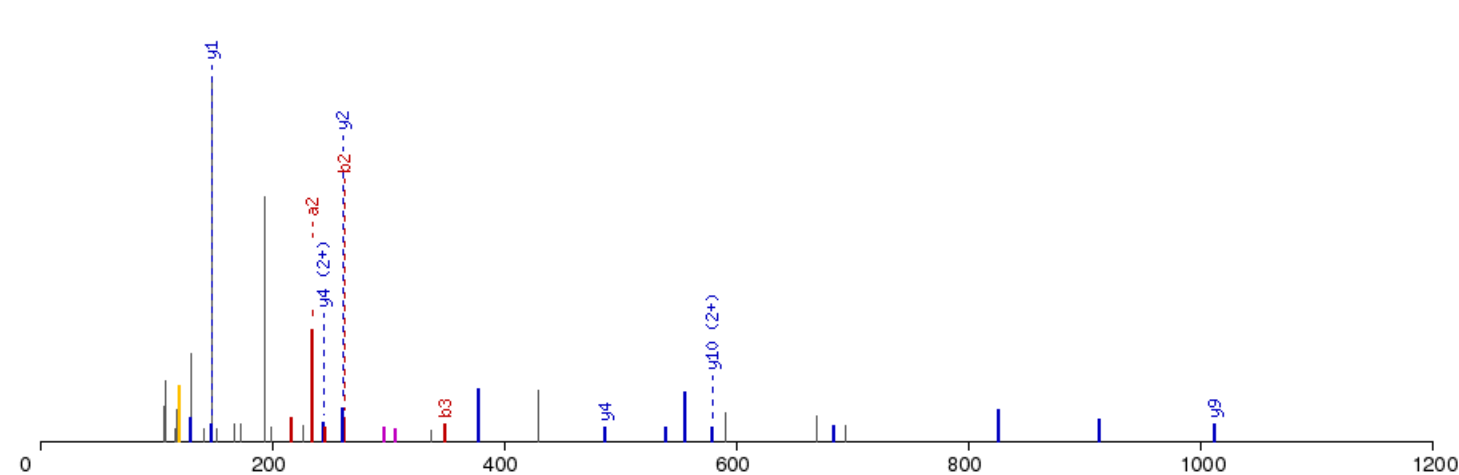
	A	L	P	Q	N	D	D	H	Y	V	M	Q	E	H	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
a		157.13														a
b		185.13	282.18	410.24	524.28	639.31	754.34	891.40	1134.43	1233.49	1380.53	1508.59	1637.63	1774.69		b
b-15.99											1364.53	1492.59	1621.64	1758.69		b-15.99
b-64.00											1316.53	1444.59	1573.63	1710.69		b-64.00
b-79.97									1054.46	1153.53	1300.56	1428.62	1557.66	1694.72		b-79.97
b (2+)								446.20	567.72	617.25	690.77	754.80	819.32	887.85		b (2+)
b-15.99 (2+)											682.77	746.80	811.32	879.85		b-15.99 (2+)
b-64.00 (2+)											658.77	722.80	787.32	855.85		b-64.00 (2+)
b-79.97 (2+)									527.73	577.27	650.78	714.81	779.34	847.87		b-79.97 (2+)
b (3+)														592.23		b (3+)
b-15.99 (3+)														586.90		b-15.99 (3+)
b-64.00 (3+)														570.90		b-64.00 (3+)
b-79.97 (3+)														565.58		b-79.97 (3+)
y		1877.76	1764.68	1667.63	1539.57	1425.53	1310.50	1195.47	1058.41	815.38	716.31	569.28	441.22	312.18	175.12	y
y-15.99		1861.77	1748.68	1651.63	1523.57	1409.53	1294.50	1179.48	1042.42	799.39	700.32					y-15.99
y-64.00		1813.77	1700.68	1603.63	1475.57	1361.53	1246.50	1131.47	994.41	751.38	652.32					y-64.00
y-79.97		1797.80	1684.71	1587.66	1459.60	1345.56	1230.53	1115.51	978.45							y-79.97
y (2+)		939.39	882.84	834.32	770.29	713.27	655.75	598.24	529.71	408.20	358.66	285.14	221.11	156.59	88.06	y (2+)
y-15.99 (2+)		931.39	874.85	826.32	762.29	705.27	647.76	590.24	521.71	400.20	350.66					y-15.99 (2+)
y-64.00 (2+)		907.39	850.84	802.32	738.29	681.27	623.75	566.24	497.71	376.20	326.66					y-64.00 (2+)
y-79.97 (2+)		899.40	842.86	794.33	730.30	673.28	615.77	558.26	489.73							y-79.97 (2+)
y (3+)		626.59	588.90	556.55	513.86	475.85	437.50	399.16	353.48	272.47	239.44	190.43	147.75	104.73		y (3+)
y-15.99 (3+)		621.26	583.57	551.22	508.53	470.51	432.17	393.83	348.14	267.13	234.11					y-15.99 (3+)
y-64.00 (3+)		605.26	567.57	535.21	492.53	454.51	416.17	377.83	332.14	251.13	218.11					y-64.00 (3+)
y-79.97 (3+)		599.94	562.24	529.89	487.21	449.19	410.85	372.51	326.82							y-79.97 (3+)
	A	L	P	Q	N	D	D	H	Y	V	M	Q	E	H	R	
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

NFSAAKS(+79.97)LLNK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 636.821, Calc. m/z: 636.827
Data File: Pepmix1_HCD.RAW.-1, Scans: 1436 - 1436

Max Intensity: 8.58e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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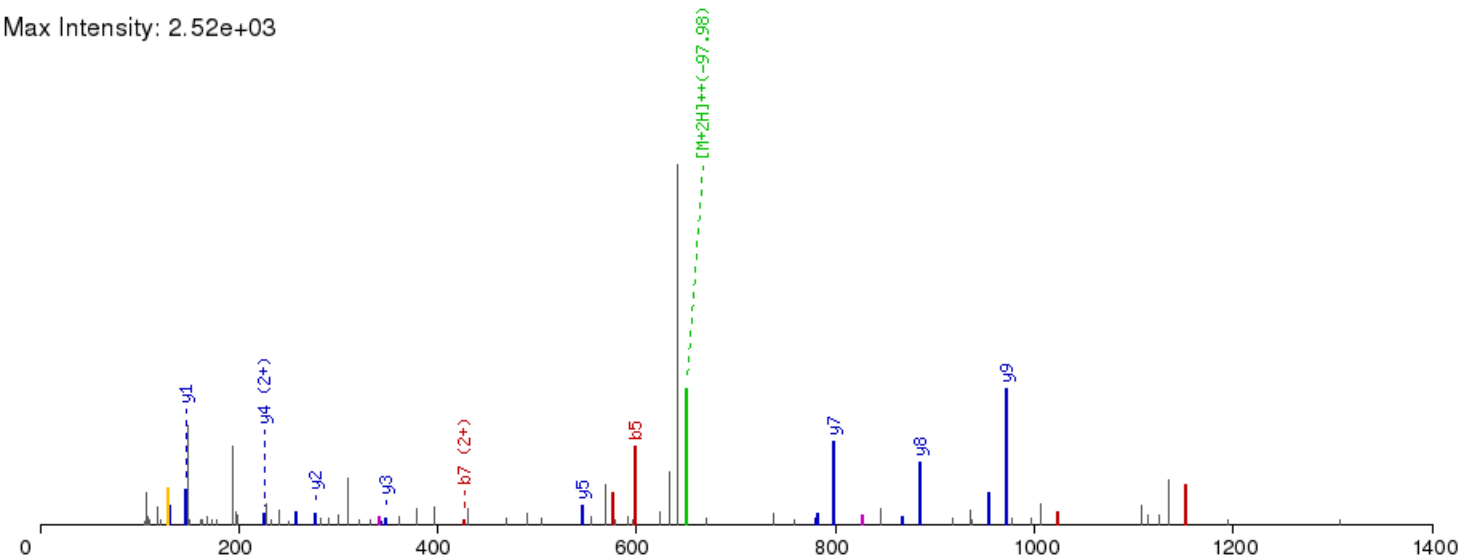
	N	F	S	A	A	K	S	L	L	N	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		234.12										a
b		262.12	349.15	420.19	491.22	619.32	786.32	899.40	1012.49	1126.53		b
b-79.97							706.35	819.44	932.52	1046.56		b-79.97
b-97.98							688.34	801.43	914.51	1028.55		b-97.98
b (2+)						310.16	393.66	450.20	506.75	563.77		b (2+)
b-79.97 (2+)							353.68	410.22	466.76	523.79		b-79.97 (2+)
b-97.98 (2+)							344.67	401.22	457.76	514.78		b-97.98 (2+)
y		1158.59	1011.52	924.49	853.45	782.42	654.32	487.32	374.24	261.16	147.11	y
y-79.97		1078.63	931.56	844.53	773.49	702.45	574.36					y-79.97
y-97.98		1060.61	913.55	826.51	755.48	684.44	556.35					y-97.98
y (2+)		579.80	506.27	462.75	427.23	391.71	327.66	244.17	187.62	131.08	74.06	y (2+)
y-79.97 (2+)		539.82	466.28	422.77	387.25	351.73	287.68					y-79.97 (2+)
y-97.98 (2+)		530.81	457.28	413.76	378.24	342.72	278.68					y-97.98 (2+)
	N	F	S	A	A	K	S	L	L	N	K	
	11	10	9	8	7	6	5	4	3	2	1	

ES(+79.97)KSSPRPTAEK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 698.828, Calc. m/z: 698.832
Data File: Pepmix2_HCD.RAW.-1, Scans: 477 - 477

Max Intensity: 2.52e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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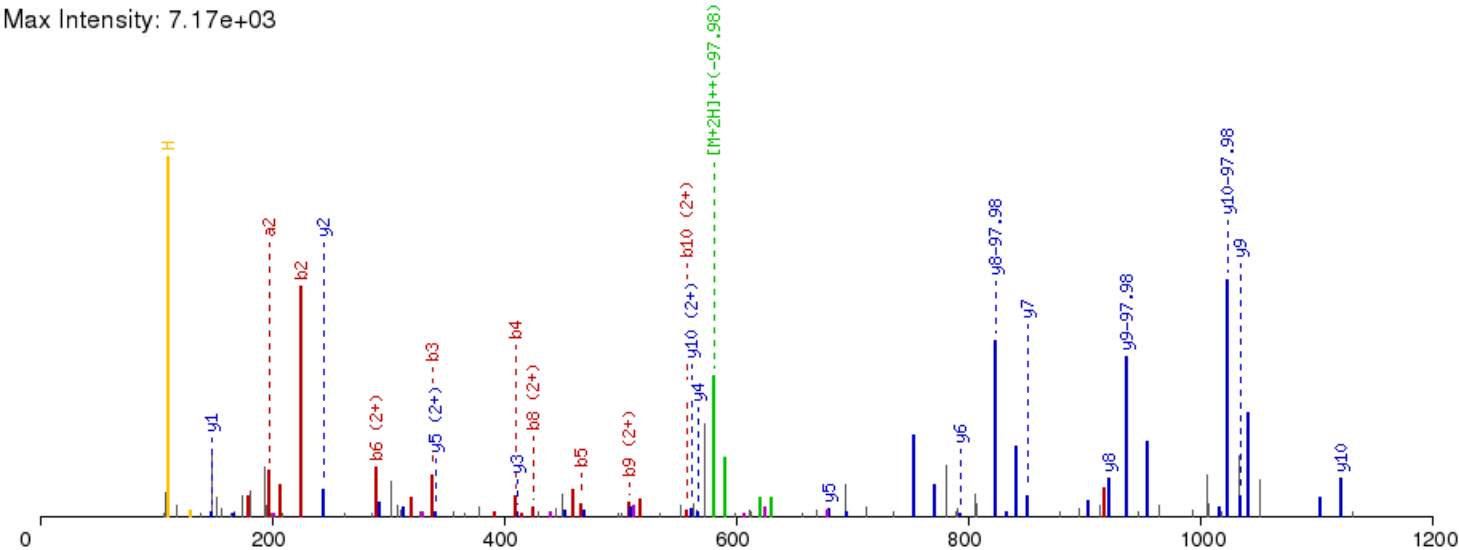
	E	S	K	S	S	P	R	P	T	A	E	K	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		269.05											a
a-79.97		189.09											a-79.97
a-97.98		171.08											a-97.98
b		297.05	425.14	512.18	599.21	696.26	852.36	949.41	1050.46	1121.50	1250.54		b
b-79.97		217.08	345.18	432.21	519.24	616.29	772.39	869.45	970.50	1041.53	1170.57		b-79.97
b-97.98		199.07	327.17	414.20	501.23	598.28	754.38	851.44	952.48	1023.52	1152.56		b-97.98
b (2+)			213.08	256.59	300.11	348.63	426.68	475.21	525.73	561.25	625.77		b (2+)
b-79.97 (2+)			173.09	216.61	260.12	308.65	386.70	435.23	485.75	521.27	585.79		b-79.97 (2+)
b-97.98 (2+)			164.09	207.60	251.12	299.65	377.70	426.22	476.75	512.26	576.79		b-97.98 (2+)
y		1267.60	1100.61	972.51	885.48	798.45	701.39	545.29	448.24	347.19	276.16	147.11	y
y-79.97		1187.64											y-79.97
y-97.98		1169.63											y-97.98
y (2+)		634.31	550.81	486.76	443.24	399.73	351.20	273.15	224.62	174.10	138.58	74.06	y (2+)
y-79.97 (2+)		594.32											y-79.97 (2+)
y-97.98 (2+)		585.32											y-97.98 (2+)
	E	S	K	S	S	P	R	P	T	A	E	K	
	12	11	10	9	8	7	6	5	4	3	2	1	

HSIAGIIRS(+79.97)PK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 629.837, Calc. m/z: 629.842
Data File: Pepmix1_HCD.RAW.-1, Scans: 1230 - 1230

Max Intensity: 7.17e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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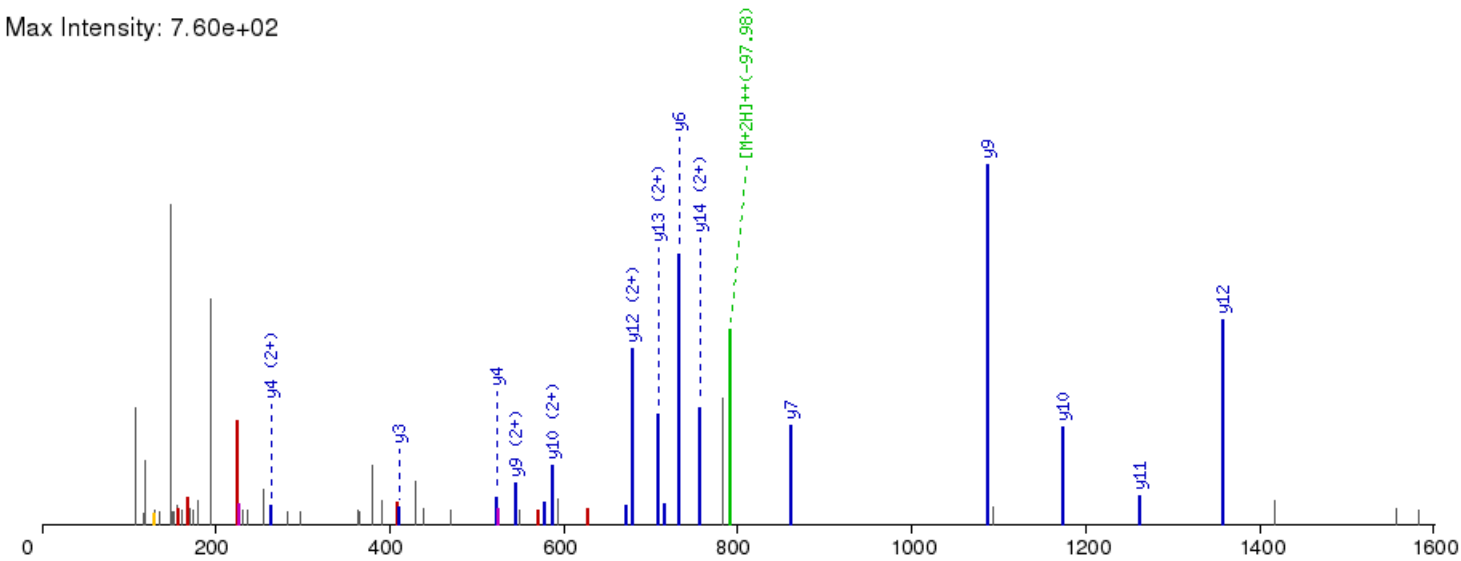
	H	S	I	A	G	I	I	R	S	P	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		197.10										a
a (2+)		99.06										a (2+)
b		225.10	338.18	409.22	466.24	579.32	692.41	848.51	1015.51	1112.56		b
b-79.97									935.54	1032.59		b-79.97
b-97.98									917.53	1014.58		b-97.98
b (2+)		113.05	169.59	205.11	233.62	290.17	346.71	424.76	508.26	556.78		b (2+)
b-79.97 (2+)									468.27	516.80		b-79.97 (2+)
b-97.98 (2+)									459.27	507.80		b-97.98 (2+)
y		1121.61	1034.58	921.49	850.45	793.43	680.35	567.27	411.16	244.17	147.11	y
y-79.97		1041.64	954.61	841.53	770.49	713.47	600.38	487.30	331.20			y-79.97
y-97.98		1023.63	936.60	823.51	752.48	695.46	582.37	469.29	313.19			y-97.98
y (2+)		561.31	517.79	461.25	425.73	397.22	340.68	284.14	206.09	122.59	74.06	y (2+)
y-79.97 (2+)		521.32	477.81	421.27	385.75	357.24	300.70	244.15	166.10			y-79.97 (2+)
y-97.98 (2+)		512.32	468.80	412.26	376.74	348.23	291.69	235.15	157.10			y-97.98 (2+)
	H	S	I	A	G	I	I	R	S	P	K	
	11	10	9	8	7	6	5	4	3	2	1	

S(+79.97)PGPSSPKEPLLFSR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 839.925, Calc. m/z: 839.917
Data File: Pepmix4_HCD.RAW.-1, Scans: 1614 - 1614

Max Intensity: 7.60e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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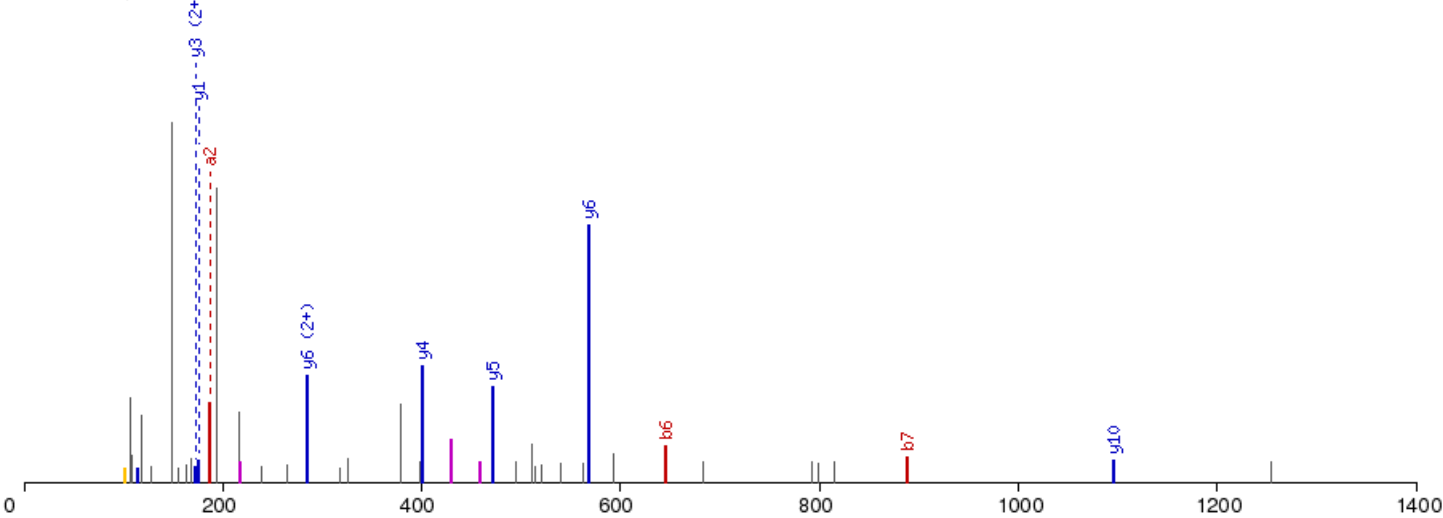
	S	P	G	P	S	S	P	K	E	P	L	L	F	S	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
a		237.06														a
a-79.97		157.10														a-79.97
a-97.98		139.09														a-97.98
b		265.06	322.08	419.13	506.16	593.20	690.25	818.34	947.39	1044.44	1157.52	1270.61	1417.68	1504.71		b
b-79.97		185.09	242.11	339.17	426.20	513.23	610.28	738.38	867.42	964.47	1077.56	1190.64	1337.71	1424.74		b-79.97
b-97.98		167.08	224.10	321.16	408.19	495.22	592.27	720.37	849.41	946.46	1059.55	1172.63	1319.70	1406.73		b-97.98
b (2+)								409.68	474.20	522.72	579.27	635.81	709.34	752.86		b (2+)
b-79.97 (2+)								369.69	434.21	482.74	539.28	595.82	669.36	712.87		b-79.97 (2+)
b-97.98 (2+)								360.69	425.21	473.74	530.28	586.82	660.35	703.87		b-97.98 (2+)
y		1511.82	1414.77	1357.75	1260.69	1173.66	1086.63	989.58	861.48	732.44	635.39	522.30	409.22	262.15	175.12	y
y (2+)		756.41	707.89	679.38	630.85	587.33	543.82	495.29	431.25	366.72	318.20	261.66	205.11	131.58	88.06	y (2+)
	S	P	G	P	S	S	P	K	E	P	L	L	F	S	R	
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

TLSEVDY(+79.97)APAGPAR

Identified in MSS769 1 x Phospho (Y)

Charge: 3, Exp. m/z: 509.568, Calc. m/z: 509.571
Data File: Pepmix5_HCD.RAW.-1, Scans: 1238 - 1238

Max Intensity: 6.28e+02



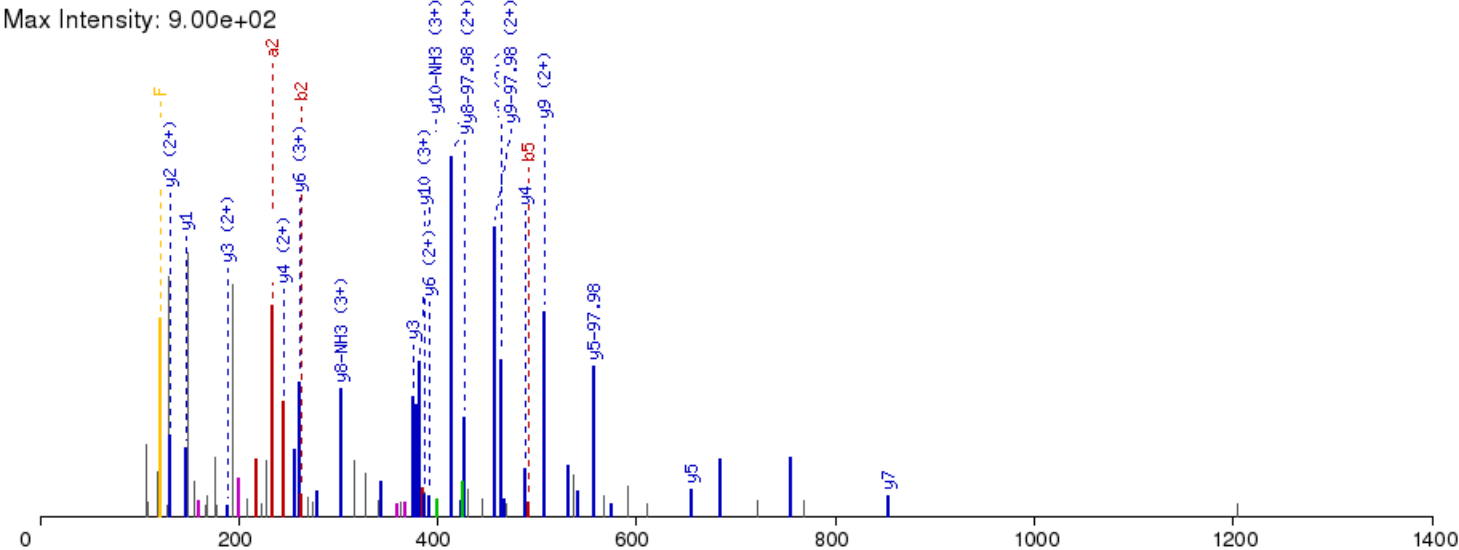
Sequence Ladder Ions

Key:		m/z out of range of spectrum				matched c-term ion		unmatched c-term ion		matched n-term ion		unmatched n-term ion			
	T	L	S	E	V	D	Y	A	P	A	G	P	A	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		187.14													a
b		215.14	302.17	431.21	530.28	645.31	888.34	959.38	1056.43	1127.47	1184.49	1281.54	1352.58		b
b−79.97							808.37	879.41	976.46	1047.50	1104.52	1201.57	1272.61		b−79.97
y		1425.64	1312.56	1225.52	1096.48	997.41	882.39	639.36	568.32	471.27	400.23	343.21	246.16	175.12	y
y−79.97		1345.67	1232.59	1145.56	1016.52	917.45	802.42								y−79.97
y (2+)		713.32	656.78	613.27	548.74	499.21	441.70	320.18	284.66	236.14	200.62	172.11	123.58	88.06	y (2+)
y−79.97 (2+)		673.34	616.80	573.28	508.76	459.23	401.71								y−79.97 (2+)
	T	L	S	E	V	D	Y	A	P	A	G	P	A	R	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

NFSAAKS(+79.97)LLNK

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 424.883, Calc. m/z: 424.887
Data File: Pepmix1_HCD.RAW.-1, Scans: 1476 - 1476



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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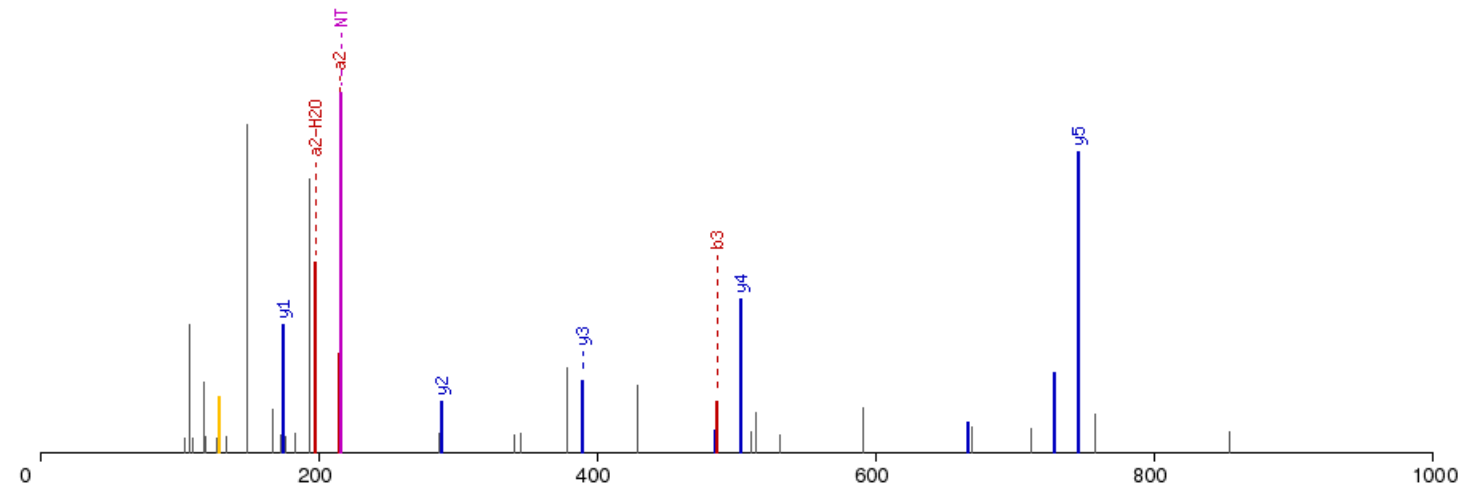
	N	F	S	A	A	K	S	L	L	N	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		234.12										a
b		262.12	349.15	420.19	491.22	619.32	786.32	899.40	1012.49	1126.53		b
b-79.97							706.35	819.44	932.52	1046.56		b-79.97
b-97.98							688.34	801.43	914.51	1028.55		b-97.98
b (2+)						310.16	393.66	450.20	506.75	563.77		b (2+)
b-79.97 (2+)							353.68	410.22	466.76	523.79		b-79.97 (2+)
b-97.98 (2+)							344.67	401.22	457.76	514.78		b-97.98 (2+)
y		1158.59	1011.52	924.49	853.45	782.42	654.32	487.32	374.24	261.16	147.11	y
y-79.97		1078.63	931.56	844.53	773.49	702.45	574.36					y-79.97
y-97.98		1060.61	913.55	826.51	755.48	684.44	556.35					y-97.98
y (2+)		579.80	506.27	462.75	427.23	391.71	327.66	244.17	187.62	131.08	74.06	y (2+)
y-79.97 (2+)		539.82	466.28	422.77	387.25	351.73	287.68					y-79.97 (2+)
y-97.98 (2+)		530.81	457.28	413.76	378.24	342.72	278.68					y-97.98 (2+)
y (3+)		386.87	337.85	308.84	285.16	261.48						y (3+)
y-79.97 (3+)		360.21	311.19	282.18	258.50	234.82						y-79.97 (3+)
y-97.98 (3+)		354.21	305.19	276.18	252.50	228.82						y-97.98 (3+)
	N	F	S	A	A	K	S	L	L	N	K	
	11	10	9	8	7	6	5	4	3	2	1	

EIY(+79.97)NTIR

Identified in MSS769 1 x Phospho (Y)

Charge: 2, Exp. m/z: 494.729, Calc. m/z: 494.729
Data File: Pepmix3_HCD.RAW.-1, Scans: 1052 - 1052

Max Intensity: 6.47e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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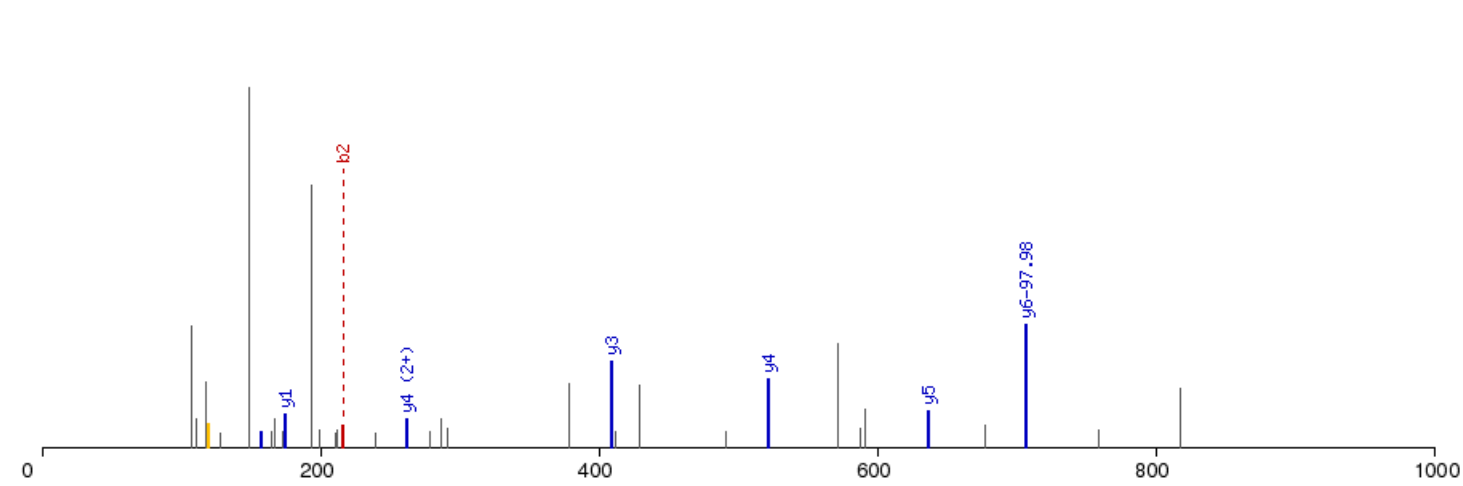
	E	I	Y	N	T	I	R	
	1	2	3	4	5	6	7	
a		215.14						a
b		243.13	486.16	600.21	701.25	814.34		b
b-79.97			406.20	520.24	621.29	734.37		b-79.97
y		859.41	746.32	503.29	389.25	288.20	175.12	y
y-79.97		779.44	666.36					y-79.97
y (2+)		430.21	373.67	252.15	195.13	144.61	88.06	y (2+)
y-79.97 (2+)		390.22	333.68					y-79.97 (2+)
	E	I	Y	N	T	I	R	
	7	6	5	4	3	2	1	

SQS(+79.97)DIFSR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 510.214, Calc. m/z: 510.217
Data File: Pepmix3_HCD.RAW.-1, Scans: 1410 - 1410

Max Intensity: 6.75e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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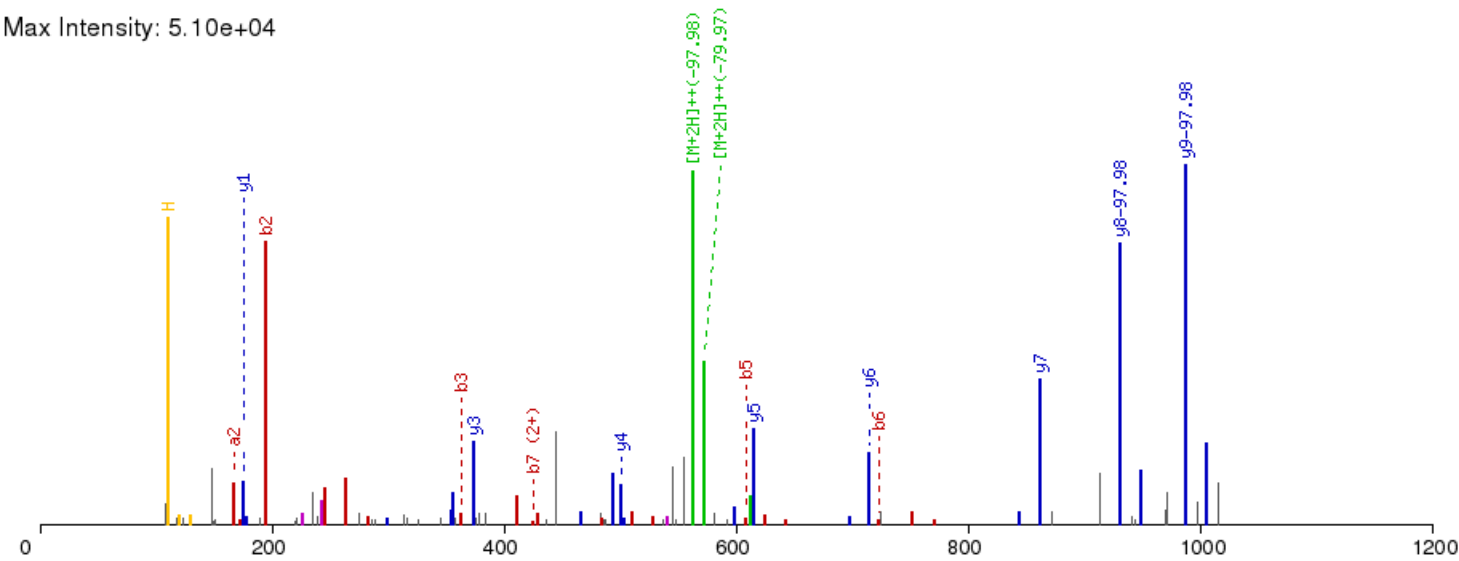
	S	Q	S	D	I	F	S	R	
	1	2	3	4	5	6	7	8	
a		188.10							a
b		216.10	383.10	498.12	611.21	758.28	845.31		b
b-79.97			303.13	418.16	531.24	678.31	765.34		b-79.97
b-97.98			285.12	400.15	513.23	660.30	747.33		b-97.98
y		932.39	804.33	637.33	522.30	409.22	262.15	175.12	y
y-79.97		852.42	724.36						y-79.97
y-97.98		834.41	706.35						y-97.98
y (2+)		466.70	402.67	319.17	261.66	205.11	131.58	88.06	y (2+)
y-79.97 (2+)		426.71	362.68						y-79.97 (2+)
y-97.98 (2+)		417.71	353.68						y-97.98 (2+)
	S	Q	S	D	I	F	S	R	
	8	7	6	5	4	3	2	1	

HGS(+79.97)FVNKPTR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 611.797, Calc. m/z: 611.792
Data File: Pepmix2_HCD.RAW.-1, Scans: 745 - 745

Max Intensity: 5.10e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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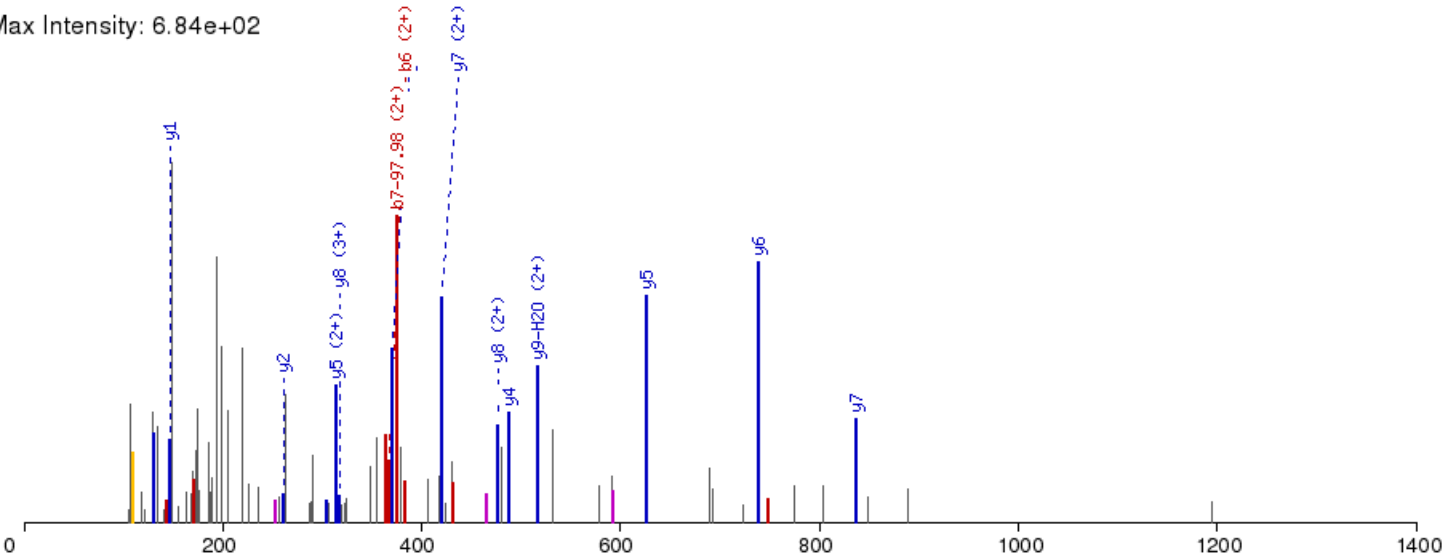
	H	G	S	F	V	N	K	P	T	R	
	1	2	3	4	5	6	7	8	9	10	
a		167.09									a
a (2+)		84.05									a (2+)
b		195.09	362.09	509.15	608.22	722.27	850.36	947.41	1048.46		b
b-79.97			282.12	429.19	528.26	642.30	770.39	867.45	968.49		b-79.97
b-97.98			264.11	411.18	510.25	624.29	752.38	849.44	950.48		b-97.98
b (2+)		98.05	181.55	255.08	304.62	361.64	425.68	474.21	524.73		b (2+)
b-79.97 (2+)			141.56	215.10	264.63	321.65	385.70	434.23	484.75		b-79.97 (2+)
b-97.98 (2+)			132.56	206.09	255.63	312.65	376.70	425.22	475.75		b-97.98 (2+)
y		1085.51	1028.49	861.49	714.43	615.36	501.31	373.22	276.17	175.12	y
y-79.97		1005.55	948.53								y-79.97
y-97.98		987.54	930.52								y-97.98
y (2+)		543.26	514.75	431.25	357.72	308.18	251.16	187.11	138.59	88.06	y (2+)
y-79.97 (2+)		503.28	474.77								y-79.97 (2+)
y-97.98 (2+)		494.27	465.76								y-97.98 (2+)
	H	G	S	F	V	N	K	P	T	R	
	10	9	8	7	6	5	4	3	2	1	

S(+79.97)TLVLHDLLK

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 406.888, Calc. m/z: 406.887
Data File: Pepmix1_HCD.RAW.-1, Scans: 1911 - 1911

Max Intensity: 6.84e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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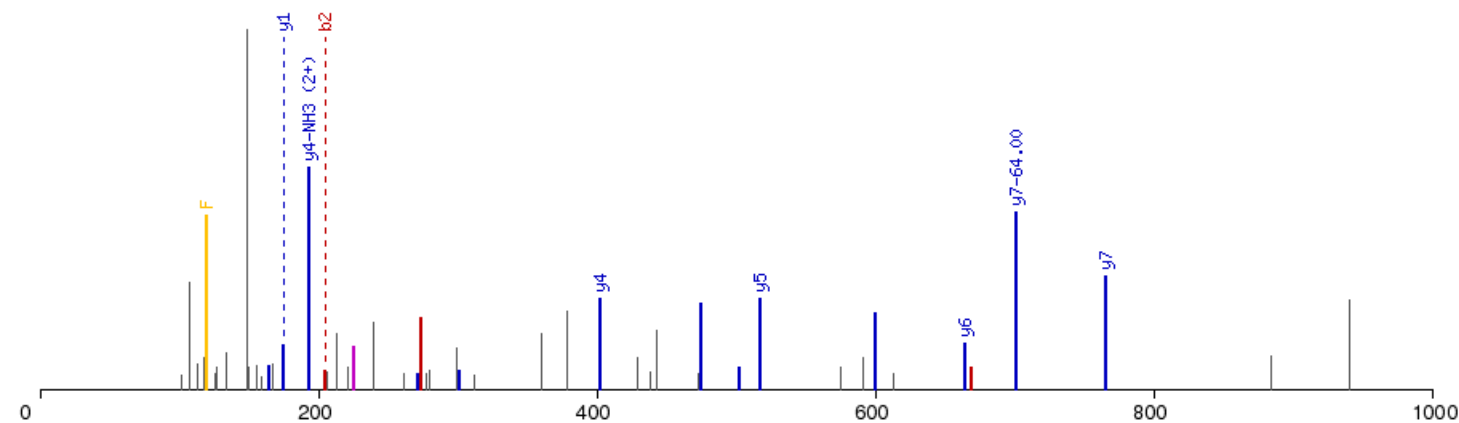
	S	T	L	V	L	H	D	L	L	K	
	1	2	3	4	5	6	7	8	9	10	
a		241.06									a
a-79.97		161.09									a-79.97
a-97.98		143.08									a-97.98
b		269.05	382.14	481.21	594.29	731.35	846.38	959.46	1072.54		b
b-79.97		189.09	302.17	401.24	514.32	651.38	766.41	879.49	992.58		b-79.97
b-97.98		171.08	284.16	383.23	496.31	633.37	748.40	861.48	974.57		b-97.98
b (2+)						366.18	423.69	480.23	536.78		b (2+)
b-79.97 (2+)						326.19	383.71	440.25	496.79		b-79.97 (2+)
b-97.98 (2+)						317.19	374.70	431.25	487.79		b-97.98 (2+)
y		1051.65	950.60	837.52	738.45	625.37	488.31	373.28	260.20	147.11	y
y (2+)		526.33	475.81	419.26	369.73	313.19	244.66	187.14	130.60	74.06	y (2+)
y (3+)		351.22	317.54	279.84	246.82	209.13					y (3+)
	S	T	L	V	L	H	D	L	L	K	
	10	9	8	7	6	5	4	3	2	1	

FGS(+79.97)LTM(+15.99)DGGLR

Identified in MSS769 1 x Oxidation (M) 1 x Phospho (ST)

Charge: 2, Exp. m/z: 625.268, Calc. m/z: 625.272
Data File: Pepmix2_HCD.RAW.-1, Scans: 1641 - 1641

Max Intensity: 6.45e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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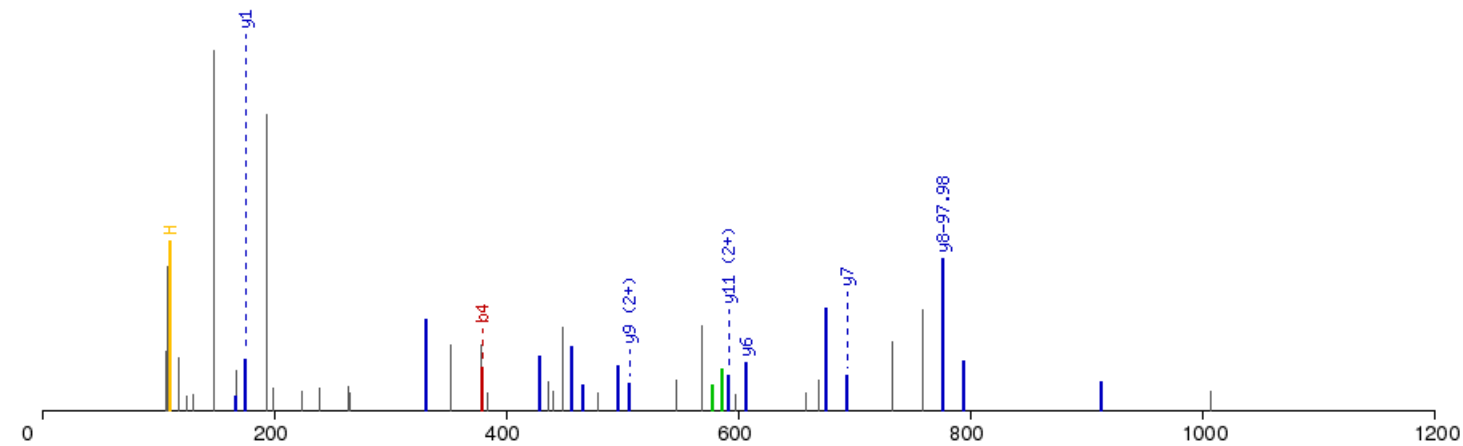
	F	G	S	L	T	M	D	G	G	L	R	
	1	2	3	4	5	6	7	8	9	10	11	
a		177.10										a
b		205.10	372.10	485.18	586.23	733.26	848.29	905.31	962.33	1075.42		b
b-15.99						717.27	832.29	889.32	946.34	1059.42		b-15.99
b-64.00						669.26	784.29	841.31	898.33	1011.42		b-64.00
b-79.97			292.13	405.21	506.26	653.30	768.32	825.34	882.37	995.45		b-79.97
b-97.98			274.12	387.20	488.25	635.29	750.31	807.33	864.36	977.44		b-97.98
y		1102.46	1045.44	878.44	765.36	664.31	517.27	402.25	345.22	288.20	175.12	y
y-15.99		1086.46	1029.44	862.45	749.36	648.31						y-15.99
y-64.00		1038.46	981.44	814.44	701.36	600.31						y-64.00
y-79.97		1022.49	965.47									y-79.97
y-97.98		1004.48	947.46									y-97.98
y (2+)		551.73	523.22	439.72	383.18	332.66	259.14	201.63	173.12	144.61	88.06	y (2+)
y-15.99 (2+)		543.74	515.23	431.73	375.18	324.66						y-15.99 (2+)
y-64.00 (2+)		519.73	491.22	407.72	351.18	300.66						y-64.00 (2+)
y-79.97 (2+)		511.75	483.24									y-79.97 (2+)
y-97.98 (2+)		502.75	474.23									y-97.98 (2+)
	F	G	S	L	T	M	D	G	G	L	R	
	11	10	9	8	7	6	5	4	3	2	1	

AGIHT(+79.97)SGSLSSR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 626.788, Calc. m/z: 626.792
Data File: Pepmix3_HCD.RAW.-1, Scans: 800 - 800

Max Intensity: 6.64e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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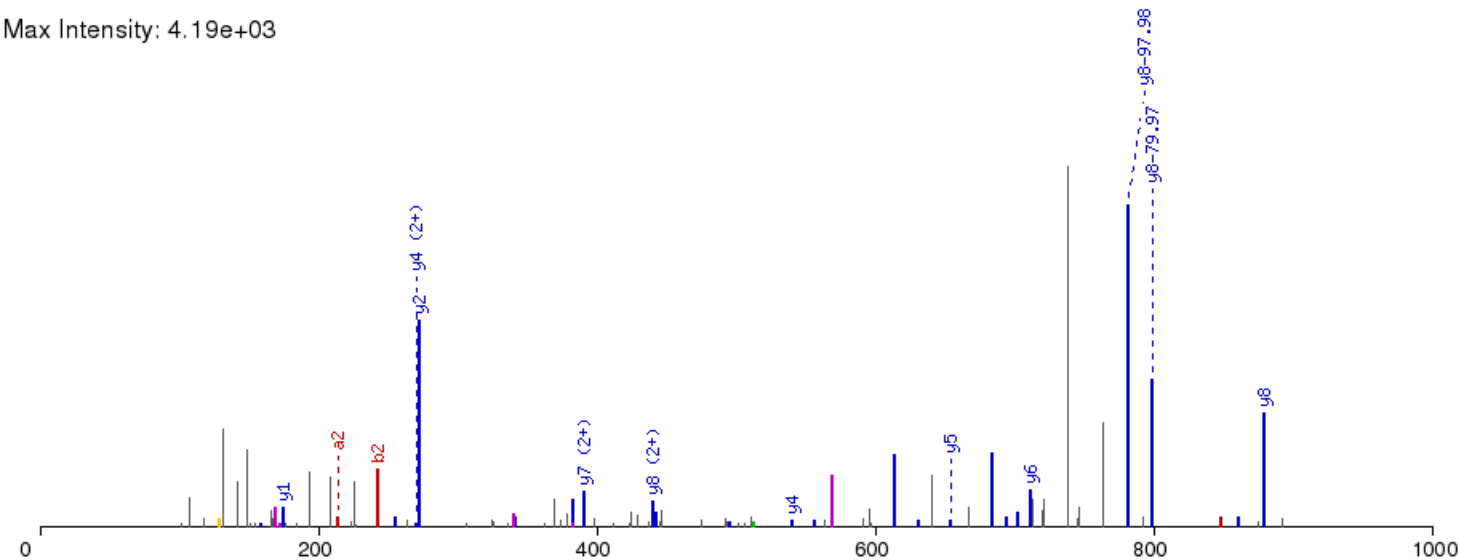
	A	G	I	H	T	S	G	S	L	S	S	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		101.07											a
b		129.07	242.15	379.21	560.22	647.25	704.28	791.31	904.39	991.42	1078.46		b
b-79.97					480.26	567.29	624.31	711.34	824.43	911.46	998.49		b-79.97
b-97.98					462.25	549.28	606.30	693.33	806.42	893.45	980.48		b-97.98
b (2+)				190.11	280.62	324.13	352.64	396.16	452.70	496.22	539.73		b (2+)
b-79.97 (2+)					240.63	284.15	312.66	356.17	412.72	456.23	499.75		b-79.97 (2+)
b-97.98 (2+)					231.63	275.14	303.65	347.17	403.71	447.23	490.74		b-97.98 (2+)
y		1181.53	1124.51	1011.43	874.37	693.35	606.32	549.30	462.27	349.18	262.15	175.12	y
y-79.97		1101.56	1044.54	931.46	794.40								y-79.97
y-97.98		1083.55	1026.53	913.45	776.39								y-97.98
y (2+)		591.27	562.76	506.22	437.69	347.18	303.66	275.15	231.64	175.10	131.58	88.06	y (2+)
y-79.97 (2+)		551.29	522.78	466.23	397.70								y-79.97 (2+)
y-97.98 (2+)		542.28	513.77	457.23	388.70								y-97.98 (2+)
	A	G	I	H	T	S	G	S	L	S	S	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

IQPAGNTS(+79.97)PR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 560.761, Calc. m/z: 560.767
Data File: Pepmix2_HCD.RAW.-1, Scans: 761 - 761

Max Intensity: 4.19e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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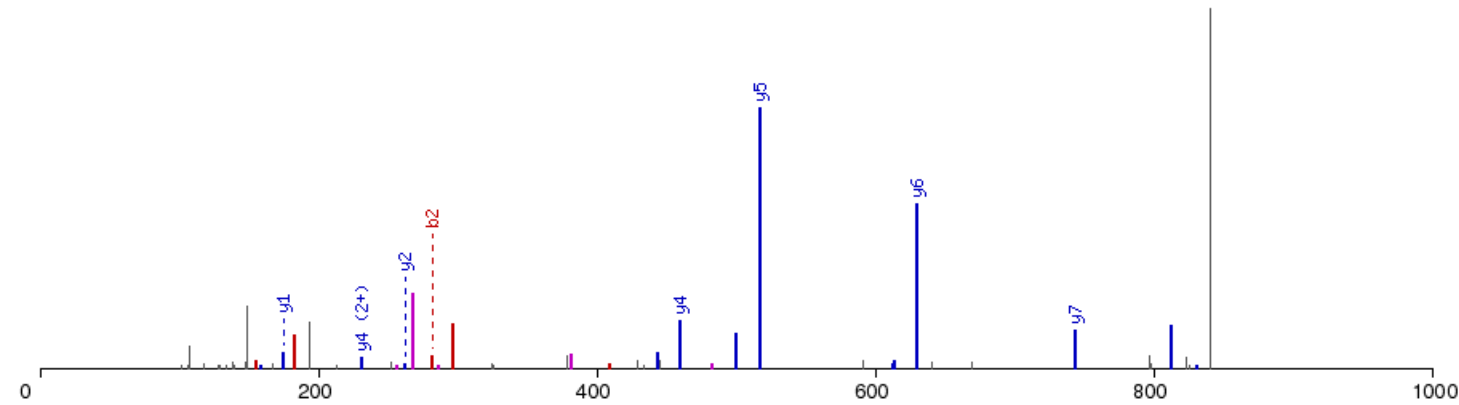
	I	Q	P	A	G	N	T	S	P	R	
	1	2	3	4	5	6	7	8	9	10	
a		214.16									a
b		242.15	339.20	410.24	467.26	581.30	682.35	849.35	946.40		b
b-79.97								769.38	866.44		b-79.97
b-97.98								751.37	848.43		b-97.98
y		1007.43	879.37	782.32	711.28	654.26	540.22	439.17	272.17	175.12	y
y-79.97		927.46	799.41	702.35	631.32	574.29	460.25	359.20			y-79.97
y-97.98		909.45	781.40	684.34	613.31	556.28	442.24	341.19			y-97.98
y (2+)		504.22	440.19	391.66	356.14	327.63	270.61	220.09	136.59	88.06	y (2+)
y-79.97 (2+)		464.24	400.21	351.68	316.16	287.65	230.63	180.11			y-79.97 (2+)
y-97.98 (2+)		455.23	391.20	342.67	307.16	278.65	221.62	171.10			y-97.98 (2+)
	I	Q	P	A	G	N	T	S	P	R	
	10	9	8	7	6	5	4	3	2	1	

LS(+79.97)IIGPTSR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 512.266, Calc. m/z: 512.267
Data File: Pepmix2_HCD.RAW.-1, Scans: 1593 - 1593

Max Intensity: 3.79e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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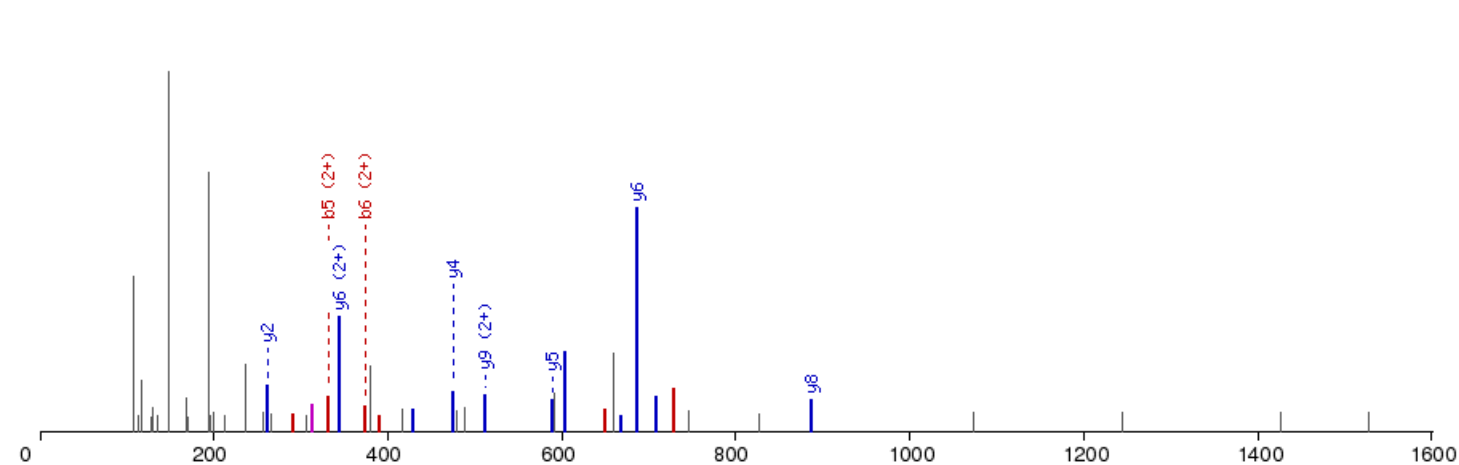
	L	S	I	I	G	P	T	S	R	
	1	2	3	4	5	6	7	8	9	
a		253.09								a
a-79.97		173.13								a-79.97
a-97.98		155.12								a-97.98
b		281.09	394.17	507.26	564.28	661.33	762.38	849.41		b
b-79.97		201.12	314.21	427.29	484.31	581.37	682.41	769.45		b-79.97
b-97.98		183.11	296.20	409.28	466.30	563.36	664.40	751.43		b-97.98
y		910.44	743.44	630.36	517.27	460.25	363.20	262.15	175.12	y
y-79.97		830.47								y-79.97
y-97.98		812.46								y-97.98
y (2+)		455.72	372.22	315.68	259.14	230.63	182.10	131.58	88.06	y (2+)
y-79.97 (2+)		415.74								y-79.97 (2+)
y-97.98 (2+)		406.73								y-97.98 (2+)
	L	S	I	I	G	P	T	S	R	
	9	8	7	6	5	4	3	2	1	

LQT(+79.97)VHSIPLTINK

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 515.280, Calc. m/z: 515.281
Data File: Pepmix1_HCD.RAW.-1, Scans: 1638 - 1638

Max Intensity: 6.70e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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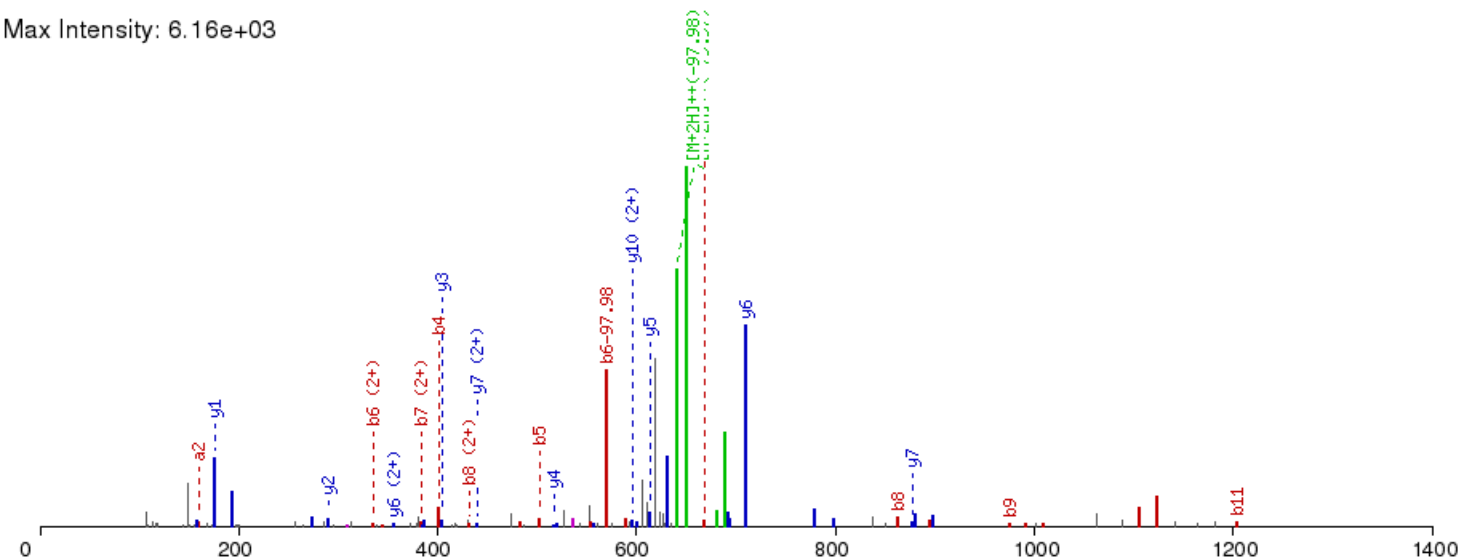
	L	Q	T	V	H	S	I	P	L	T	I	N	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	
a		214.16												a
b		242.15	423.16	522.23	659.29	746.32	859.41	956.46	1069.54	1170.59	1283.68	1397.72		b
b-79.97			343.20	442.27	579.32	666.36	779.44	876.49	989.58	1090.63	1203.71	1317.75		b-79.97
b-97.98			325.19	424.26	561.31	648.35	761.43	858.48	971.57	1072.61	1185.70	1299.74		b-97.98
b (2+)					330.15	373.67	430.21	478.73	535.28	585.80	642.34	699.36		b (2+)
b-79.97 (2+)					290.17	333.68	390.22	438.75	495.29	545.82	602.36	659.38		b-79.97 (2+)
b-97.98 (2+)					281.16	324.68	381.22	429.75	486.29	536.81	593.35	650.37		b-97.98 (2+)
y		1430.74	1302.68	1121.67	1022.60	885.54	798.51	685.42	588.37	475.29	374.24	261.16	147.11	y
y-79.97		1350.77	1222.72											y-79.97
y-97.98		1332.76	1204.70											y-97.98
y (2+)		715.87	651.84	561.34	511.80	443.27	399.76	343.22	294.69	238.15	187.62	131.08	74.06	y (2+)
y-79.97 (2+)		675.89	611.86											y-79.97 (2+)
y-97.98 (2+)		666.89	602.86											y-97.98 (2+)
y (3+)		477.58	434.90	374.56	341.54									y (3+)
y-79.97 (3+)		450.93	408.24											y-79.97 (3+)
y-97.98 (3+)		444.93	402.24											y-97.98 (3+)
	L	Q	T	V	H	S	I	P	L	T	I	N	K	
	13	12	11	10	9	8	7	6	5	4	3	2	1	

VSGRTS(+79.97)PPLDR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 689.348, Calc. m/z: 689.352
Data File: Pepmix5_HCD.RAW.-1, Scans: 1180 - 1180

Max Intensity: 6.16e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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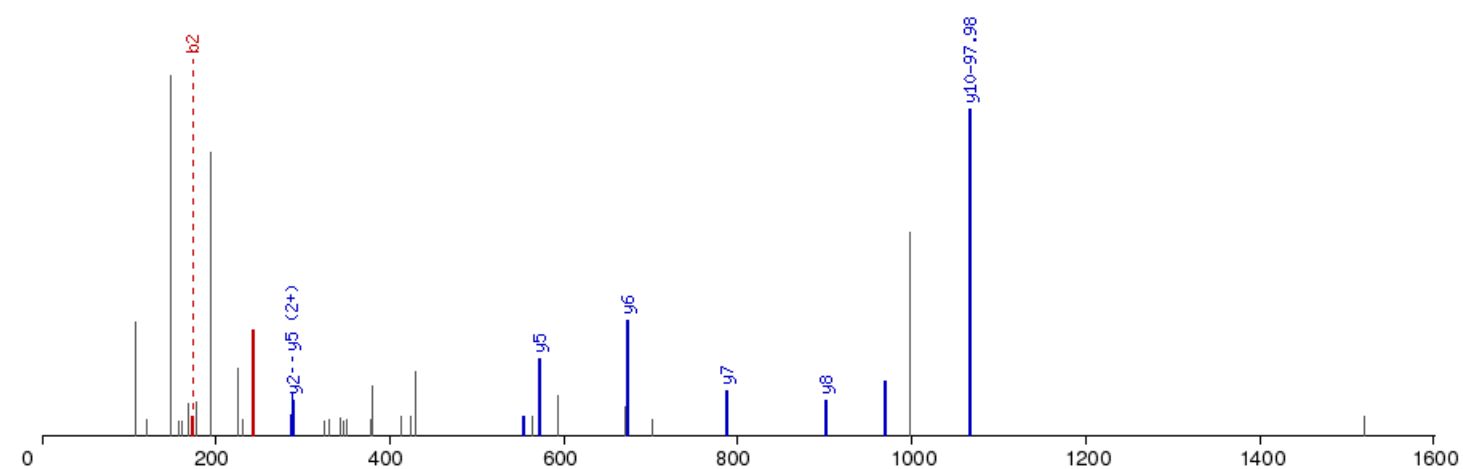
	V	S	G	R	T	S	P	P	L	L	D	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		159.11											a
b		187.11	244.13	400.23	501.28	668.28	765.33	862.38	975.47	1088.55	1203.58		b
b-79.97						588.31	685.36	782.42	895.50	1008.58	1123.61		b-79.97
b-97.98						570.30	667.35	764.40	877.49	990.57	1105.60		b-97.98
b (2+)				200.62	251.14	334.64	383.17	431.69	488.24	544.78	602.29		b (2+)
b-79.97 (2+)						294.66	343.19	391.71	448.25	504.80	562.31		b-79.97 (2+)
b-97.98 (2+)						285.65	334.18	382.71	439.25	495.79	553.30		b-97.98 (2+)
y		1278.62	1191.59	1134.57	978.47	877.42	710.42	613.37	516.31	403.23	290.15	175.12	y
y-79.97		1198.65	1111.62	1054.60	898.50	797.45							y-79.97
y-97.98		1180.64	1093.61	1036.59	880.49	779.44							y-97.98
y (2+)		639.81	596.30	567.79	489.74	439.21	355.71	307.19	258.66	202.12	145.58	88.06	y (2+)
y-79.97 (2+)		599.83	556.31	527.80	449.75	399.23							y-79.97 (2+)
y-97.98 (2+)		590.83	547.31	518.80	440.75	390.22							y-97.98 (2+)
	V	S	G	R	T	S	P	P	L	L	D	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

ATSLPS(+79.97)LDTPGELR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 768.870, Calc. m/z: 768.872
Data File: Pepmix5_HCD.RAW.-1, Scans: 1674 - 1674

Max Intensity: 6.96e+02



Sequence Ladder Ions

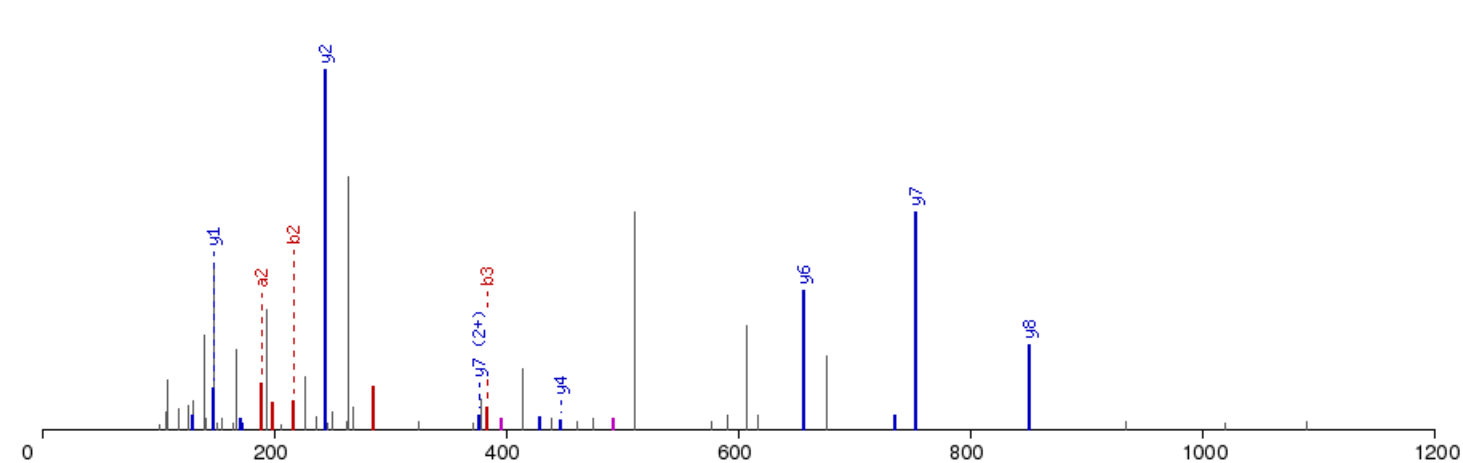
Key: m/z out of range of spectrum matched c-term ion unmatched c-term ion matched n-term ion unmatched n-term ion															
	A	T	S	L	P	S	L	D	T	P	G	E	L	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		145.10													a
b		173.09	260.12	373.21	470.26	637.26	750.34	865.37	966.42	1063.47	1120.49	1249.53	1362.62		b
b-79.97						557.29	670.38	785.40	886.45	983.50	1040.53	1169.57	1282.65		b-79.97
b-97.98						539.28	652.37	767.39	868.44	965.49	1022.52	1151.56	1264.64		b-97.98
y		1465.69	1364.65	1277.61	1164.53	1067.48	900.48	787.39	672.37	571.32	474.27	417.25	288.20	175.12	y
y-79.97		1385.73	1284.68	1197.65	1084.56	987.51									y-79.97
y-97.98		1367.72	1266.67	1179.64	1066.55	969.50									y-97.98
y (2+)		733.35	682.83	639.31	582.77	534.24	450.74	394.20	336.69	286.16	237.64	209.13	144.61	88.06	y (2+)
y-79.97 (2+)		693.37	642.84	599.33	542.79	494.26									y-79.97 (2+)
y-97.98 (2+)		684.36	633.84	590.32	533.78	485.25									y-97.98 (2+)
	A	T	S	L	P	S	L	D	T	P	G	E	L	R	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

SES(+79.97)PPPLSDPK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 617.274, Calc. m/z: 617.272
Data File: Pepmix1_HCD.RAW.-1, Scans: 1136 - 1136

Max Intensity: 1.68e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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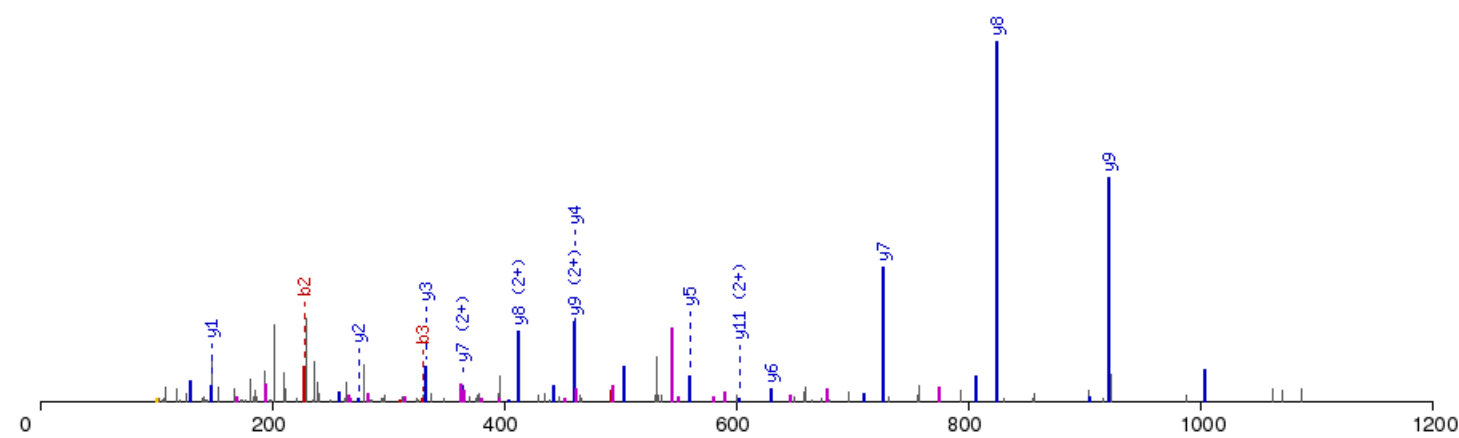
	S	E	S	P	P	P	L	S	D	P	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		189.09										a
b		217.08	384.08	481.13	578.19	675.24	788.32	875.35	990.38	1087.43		b
b-79.97			304.11	401.17	498.22	595.27	708.36	795.39	910.42	1007.47		b-79.97
b-97.98			286.10	383.16	480.21	577.26	690.35	777.38	892.40	989.46		b-97.98
y		1146.51	1017.47	850.47	753.41	656.36	559.31	446.22	359.19	244.17	147.11	y
y-79.97		1066.54	937.50									y-79.97
y-97.98		1048.53	919.49									y-97.98
y (2+)		573.76	509.24	425.74	377.21	328.68	280.16	223.62	180.10	122.59	74.06	y (2+)
y-79.97 (2+)		533.77	469.25									y-79.97 (2+)
y-97.98 (2+)		524.77	460.25									y-97.98 (2+)
	S	E	S	P	P	P	L	S	D	P	K	
	11	10	9	8	7	6	5	4	3	2	1	

VQTT(+79.97)PPPAVQGQK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 715.852, Calc. m/z: 715.857
Data File: Pepmix1_HCD.RAW.-1, Scans: 971 - 971

Max Intensity: 1.06e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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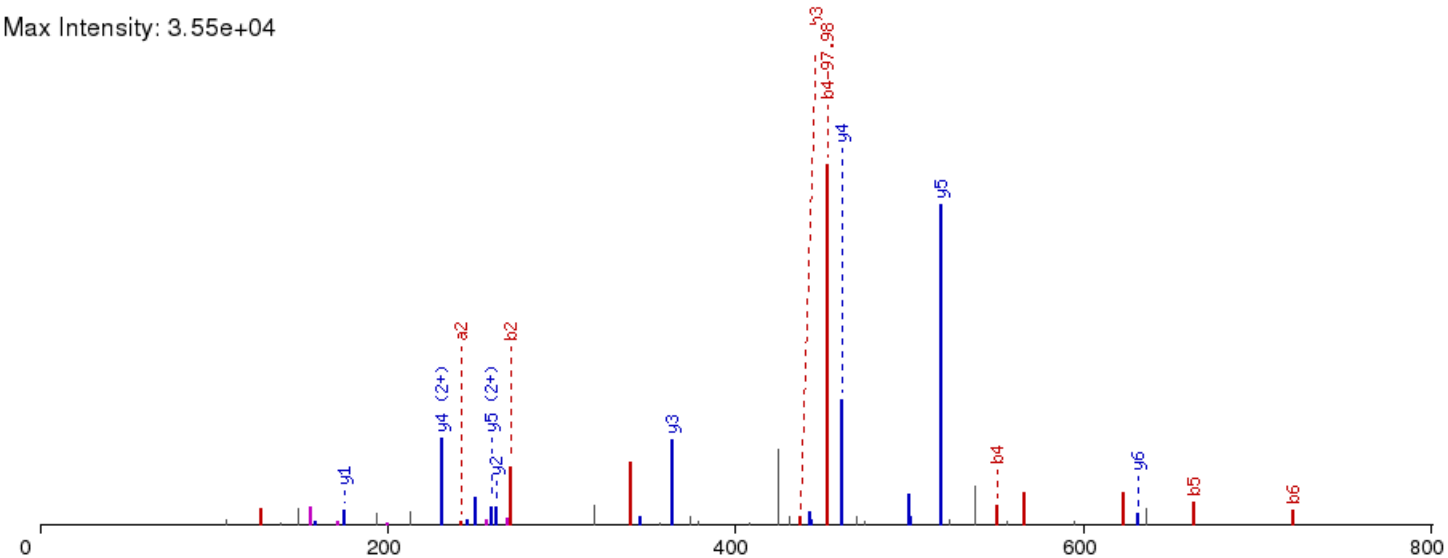
	V	Q	T	T	P	P	P	A	V	Q	G	Q	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	
a		200.14												a
b		228.13	329.18	510.20	607.25	704.30	801.35	872.39	971.46	1099.52	1156.54	1284.60		b
b-79.97				430.23	527.28	624.34	721.39	792.43	891.49	1019.55	1076.57	1204.63		b-79.97
b-97.98				412.22	509.27	606.32	703.38	774.41	873.48	1001.54	1058.56	1186.62		b-97.98
y		1331.64	1203.58	1102.53	921.52	824.46	727.41	630.36	559.32	460.25	332.19	275.17	147.11	y
y-79.97		1251.67	1123.61	1022.56										y-79.97
y-97.98		1233.66	1105.60	1004.55										y-97.98
y (2+)		666.32	602.29	551.77	461.26	412.73	364.21	315.68	280.16	230.63	166.60	138.09	74.06	y (2+)
y-79.97 (2+)		626.34	562.31	511.79										y-79.97 (2+)
y-97.98 (2+)		617.33	553.30	502.78										y-97.98 (2+)
	V	Q	T	T	P	P	P	A	V	Q	G	Q	K	
	13	12	11	10	9	8	7	6	5	4	3	2	1	

RLS(+79.97)IIGPTSR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 393.884, Calc. m/z: 393.884
Data File: Pepmix2_HCD.RAW.-1, Scans: 1435 - 1435

Max Intensity: 3.55e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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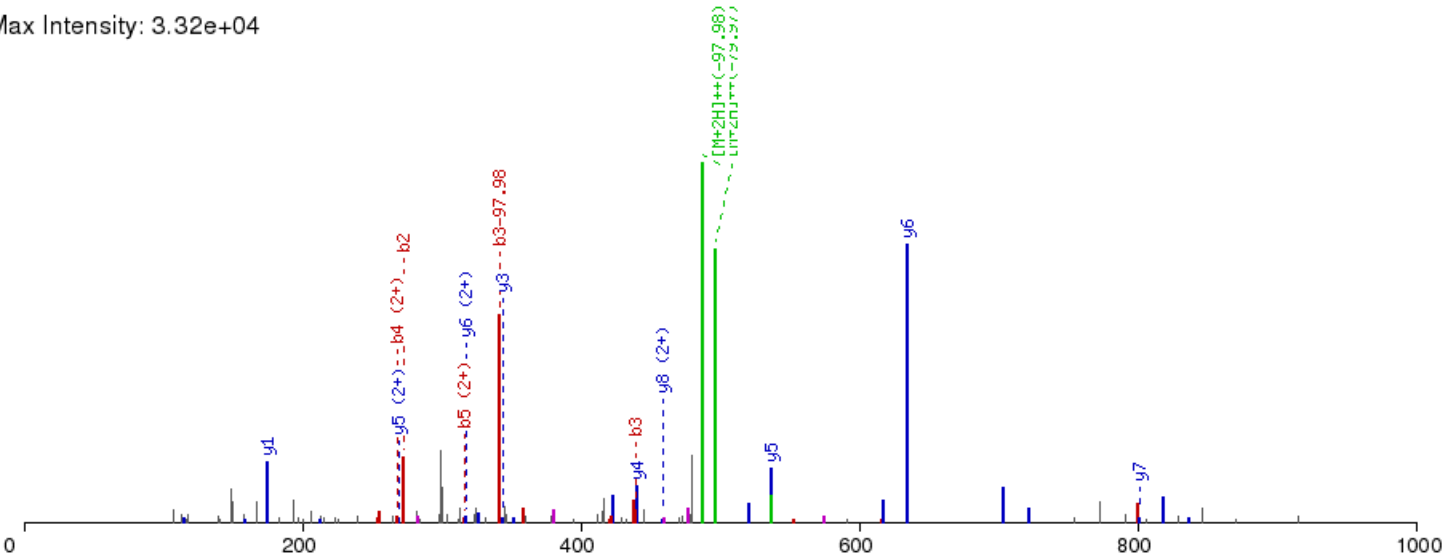
	R	L	S	I	I	G	P	T	S	R	
	1	2	3	4	5	6	7	8	9	10	
a		242.20									a
a (2+)		121.60									a (2+)
b		270.19	437.19	550.27	663.36	720.38	817.43	918.48	1005.51		b
b-79.97			357.22	470.31	583.39	640.41	737.47	838.51	925.55		b-79.97
b-97.98			339.21	452.30	565.38	622.40	719.46	820.50	907.54		b-97.98
b (2+)		135.60	219.10	275.64	332.18	360.69	409.22	459.74	503.26		b (2+)
b-79.97 (2+)			179.12	235.66	292.20	320.71	369.24	419.76	463.28		b-79.97 (2+)
b-97.98 (2+)			170.11	226.65	283.19	311.71	360.23	410.76	454.27		b-97.98 (2+)
y		1023.52	910.44	743.44	630.36	517.27	460.25	363.20	262.15	175.12	y
y-79.97		943.56	830.47								y-79.97
y-97.98		925.55	812.46								y-97.98
y (2+)		512.27	455.72	372.22	315.68	259.14	230.63	182.10	131.58	88.06	y (2+)
y-79.97 (2+)		472.28	415.74								y-79.97 (2+)
y-97.98 (2+)		463.28	406.73								y-97.98 (2+)
	R	L	S	I	I	G	P	T	S	R	
	10	9	8	7	6	5	4	3	2	1	

RDS(+79.97)PPPPAR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 536.750, Calc. m/z: 536.752
Data File: Pepmix2_HCD.RAW.-1, Scans: 569 - 569

Max Intensity: 3.32e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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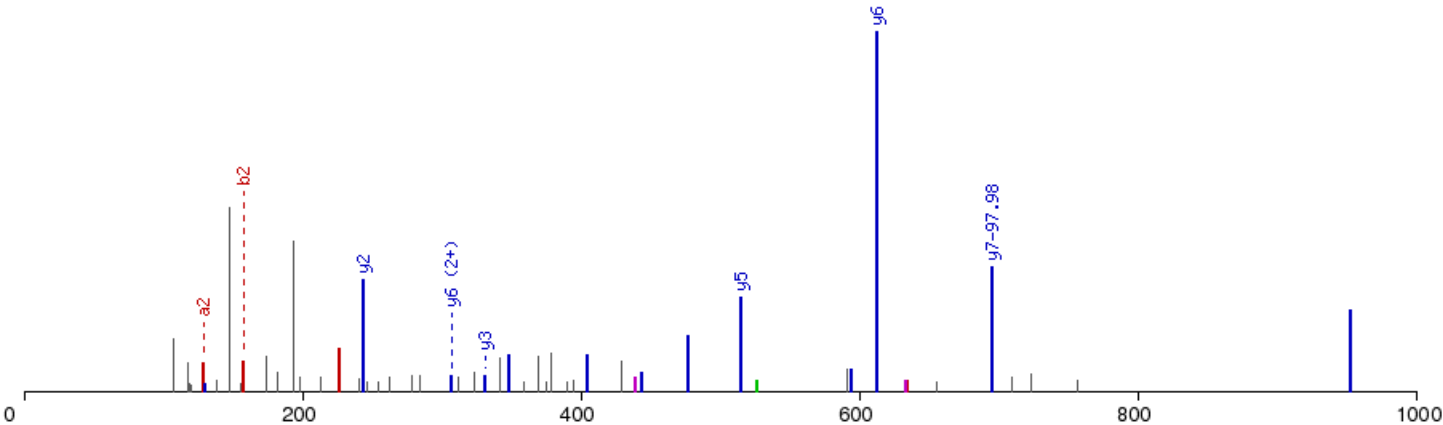
	R	D	S	P	P	P	P	A	R	
	1	2	3	4	5	6	7	8	9	
a		244.14								a
a (2+)		122.57								a (2+)
b		272.14	439.13	536.19	633.24	730.29	827.34	898.38		b
b-79.97			359.17	456.22	553.27	650.33	747.38	818.42		b-79.97
b-97.98			341.16	438.21	535.26	632.32	729.37	800.40		b-97.98
b (2+)		136.57	220.07	268.60	317.12	365.65	414.18	449.69		b (2+)
b-79.97 (2+)			180.09	228.61	277.14	325.67	374.19	409.71		b-79.97 (2+)
b-97.98 (2+)			171.08	219.61	268.13	316.66	365.19	400.71		b-97.98 (2+)
y		916.39	801.37	634.37	537.31	440.26	343.21	246.16	175.12	y
y-79.97		836.43	721.40							y-79.97
y-97.98		818.42	703.39							y-97.98
y (2+)		458.70	401.19	317.69	269.16	220.63	172.11	123.58	88.06	y (2+)
y-79.97 (2+)		418.72	361.20							y-79.97 (2+)
y-97.98 (2+)		409.71	352.20							y-97.98 (2+)
	R	D	S	P	P	P	P	A	R	
	9	8	7	6	5	4	3	2	1	

VGSLT(+79.97)PPSSPK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 575.282, Calc. m/z: 575.287
Data File: Pepmix1_HCD.RAW.-1, Scans: 1244 - 1244

Max Intensity: 1.19e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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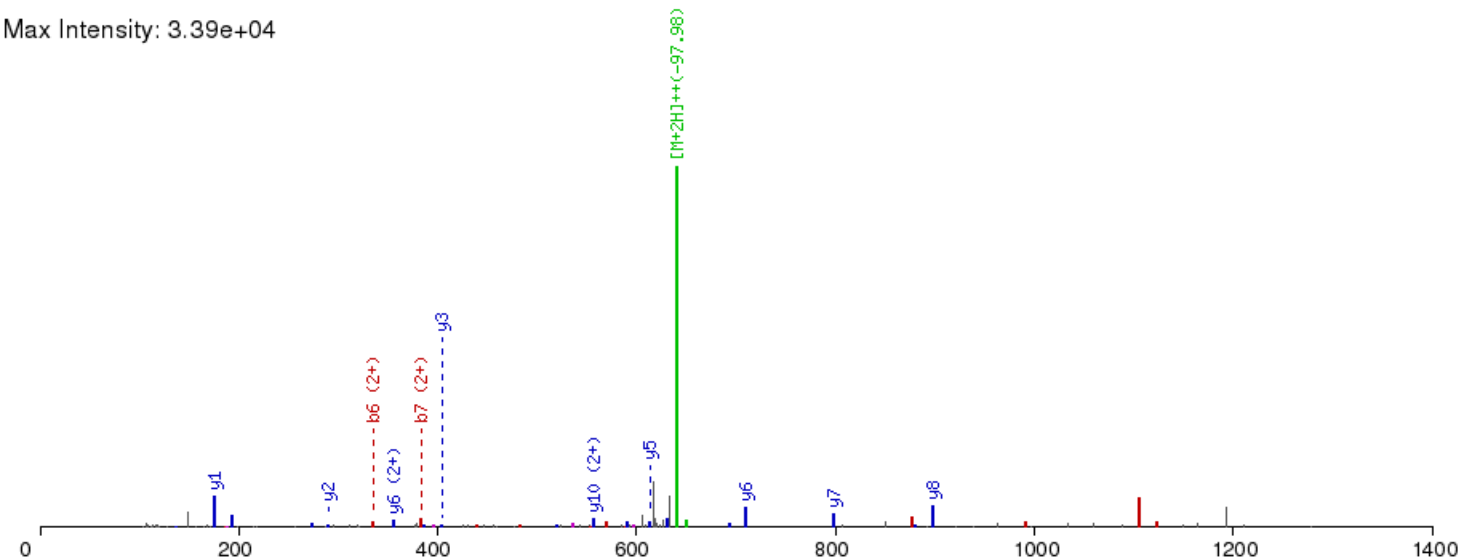
	V	G	S	L	T	P	P	S	S	P	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		129.10										a
b		157.10	244.13	357.21	538.23	635.28	732.33	819.36	906.40	1003.45		b
b-79.97					458.26	555.31	652.37	739.40	826.43	923.48		b-79.97
b-97.98					440.25	537.30	634.36	721.39	808.42	905.47		b-97.98
y		1050.49	993.47	906.43	793.35	612.34	515.28	418.23	331.20	244.17	147.11	y
y-79.97		970.52	913.50	826.47	713.38							y-79.97
y-97.98		952.51	895.49	808.46	695.37							y-97.98
y (2+)		525.75	497.24	453.72	397.18	306.67	258.14	209.62	166.10	122.59	74.06	y (2+)
y-79.97 (2+)		485.76	457.25	413.74	357.20							y-79.97 (2+)
y-97.98 (2+)		476.76	448.25	404.73	348.19							y-97.98 (2+)
	V	G	S	L	T	P	P	S	S	P	K	
	11	10	9	8	7	6	5	4	3	2	1	

VS(+79.97)GRTSPPLDR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 689.348, Calc. m/z: 689.352
Data File: Pepmix4_HCD.RAW.-1, Scans: 1247 - 1247

Max Intensity: 3.39e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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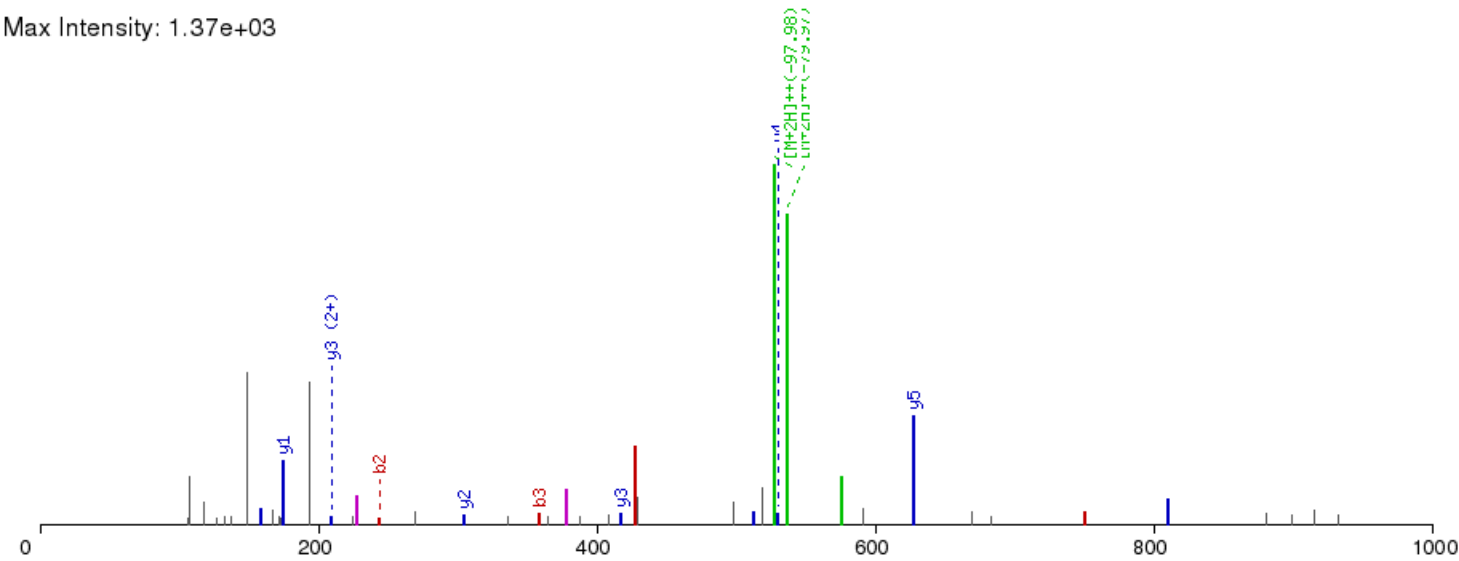
	V	S	G	R	T	S	P	P	L	L	D	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		239.08											a
a-79.97		159.11											a-79.97
a-97.98		141.10											a-97.98
b		267.07	324.10	480.20	581.24	668.28	765.33	862.38	975.47	1088.55	1203.58		b
b-79.97		187.11	244.13	400.23	501.28	588.31	685.36	782.42	895.50	1008.58	1123.61		b-79.97
b-97.98		169.10	226.12	382.22	483.27	570.30	667.35	764.40	877.49	990.57	1105.60		b-97.98
b (2+)				240.60	291.13	334.64	383.17	431.69	488.24	544.78	602.29		b (2+)
b-79.97 (2+)				200.62	251.14	294.66	343.19	391.71	448.25	504.80	562.31		b-79.97 (2+)
b-97.98 (2+)				191.61	242.14	285.65	334.18	382.71	439.25	495.79	553.30		b-97.98 (2+)
y		1278.62	1111.62	1054.60	898.50	797.45	710.42	613.37	516.31	403.23	290.15	175.12	y
y-79.97		1198.65											y-79.97
y-97.98		1180.64											y-97.98
y (2+)		639.81	556.31	527.80	449.75	399.23	355.71	307.19	258.66	202.12	145.58	88.06	y (2+)
y-79.97 (2+)		599.83											y-79.97 (2+)
y-97.98 (2+)		590.83											y-97.98 (2+)
	V	S	G	R	T	S	P	P	L	L	D	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

SRNS(+79.97)PLLER

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 576.282, Calc. m/z: 576.287
Data File: Pepmix2_HCD.RAW.-1, Scans: 1057 - 1057

Max Intensity: 1.37e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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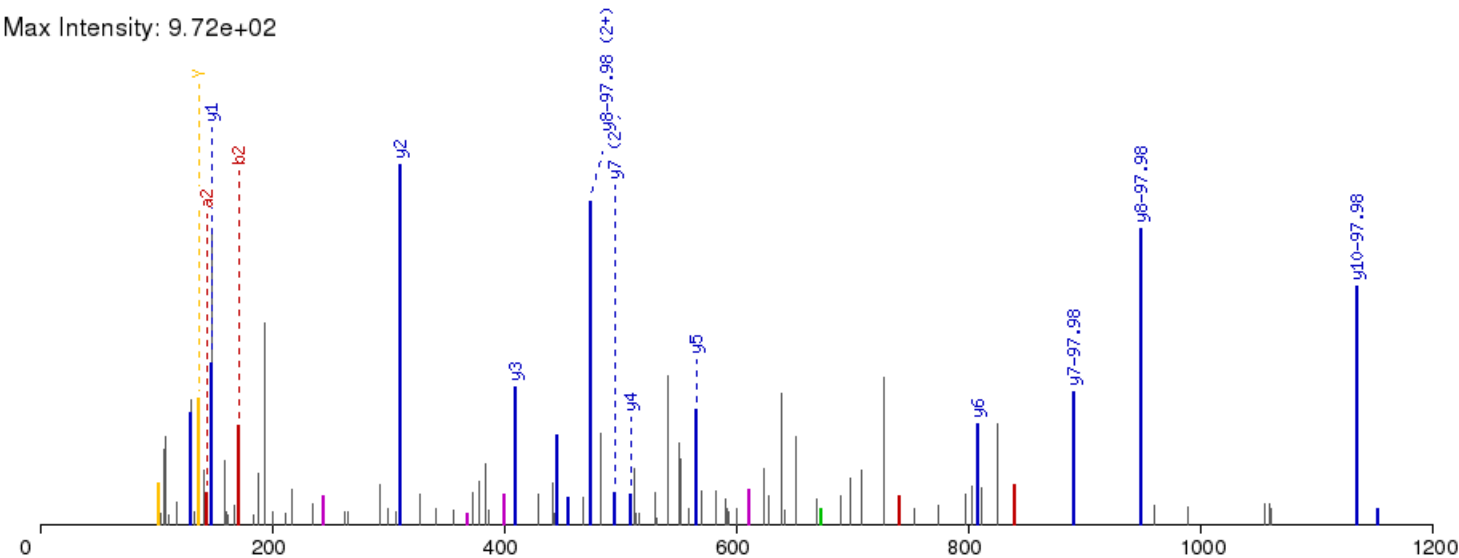
	S	R	N	S	P	L	L	E	R	
	1	2	3	4	5	6	7	8	9	
a		216.15								a
a (2+)		108.58								a (2+)
b		244.14	358.18	525.18	622.23	735.32	848.40	977.45		b
b-79.97				445.22	542.27	655.35	768.44	897.48		b-79.97
b-97.98				427.20	524.26	637.34	750.43	879.47		b-97.98
b (2+)		122.57	179.60	263.09	311.62	368.16	424.70	489.23		b (2+)
b-79.97 (2+)				223.11	271.64	328.18	384.72	449.24		b-79.97 (2+)
b-97.98 (2+)				214.11	262.63	319.17	375.72	440.24		b-97.98 (2+)
y		1064.52	908.42	794.38	627.38	530.33	417.25	304.16	175.12	y
y-79.97		984.56	828.46	714.41						y-79.97
y-97.98		966.55	810.45	696.40						y-97.98
y (2+)		532.77	454.72	397.69	314.19	265.67	209.13	152.58	88.06	y (2+)
y-79.97 (2+)		492.78	414.73	357.71						y-79.97 (2+)
y-97.98 (2+)		483.78	405.73	348.71						y-97.98 (2+)
	S	R	N	S	P	L	L	E	R	
	9	8	7	6	5	4	3	2	1	

IGEGT(+79.97)Y(+79.97)GVVYK

Identified in MSS769 1 x Phospho (Y) 1 x Phospho (ST)

Charge: 2, Exp. m/z: 673.278, Calc. m/z: 673.282
Data File: Pepmix1_HCD.RAW.-1, Scans: 1397 - 1397

Max Intensity: 9.72e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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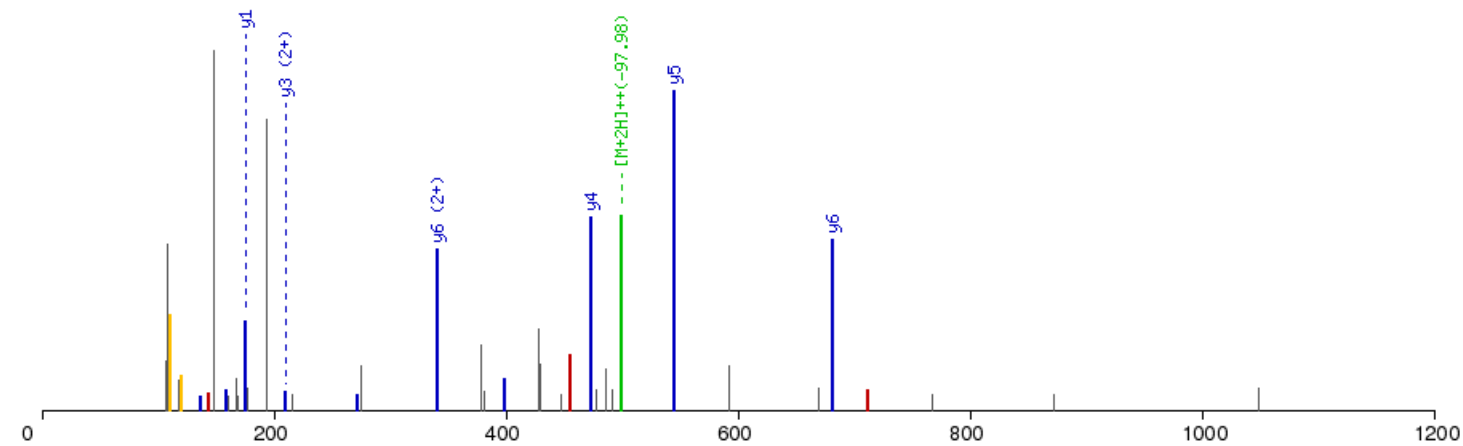
	I	G	E	G	T	Y	G	V	V	Y	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		143.12										a
b		171.11	300.16	357.18	538.19	781.22	838.24	937.31	1036.38	1199.44		b
b-79.97					458.22	701.25	758.28	857.34	956.41	1119.48		b-79.97
b-97.98					440.21	683.24	740.27	839.33	938.40	1101.47		b-97.98
y		1232.46	1175.44	1046.40	989.38	808.36	565.33	508.31	409.24	310.18	147.11	y
y-79.97		1152.50	1095.48	966.43	909.41	728.40						y-79.97
y-97.98		1134.49	1077.47	948.42	891.40							y-97.98
y (2+)		616.74	588.22	523.70	495.19	404.69	283.17	254.66	205.13	155.59	74.06	y (2+)
y-79.97 (2+)		576.75	548.24	483.72	455.21	364.70						y-79.97 (2+)
y-97.98 (2+)		567.75	539.24	474.71	446.20							y-97.98 (2+)
	I	G	E	G	T	Y	G	V	V	Y	K	
	11	10	9	8	7	6	5	4	3	2	1	

S(+79.97)TFHAGQLR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 548.751, Calc. m/z: 548.752
Data File: Pepmix3_HCD.RAW.-1, Scans: 1142 - 1142

Max Intensity: 7.09e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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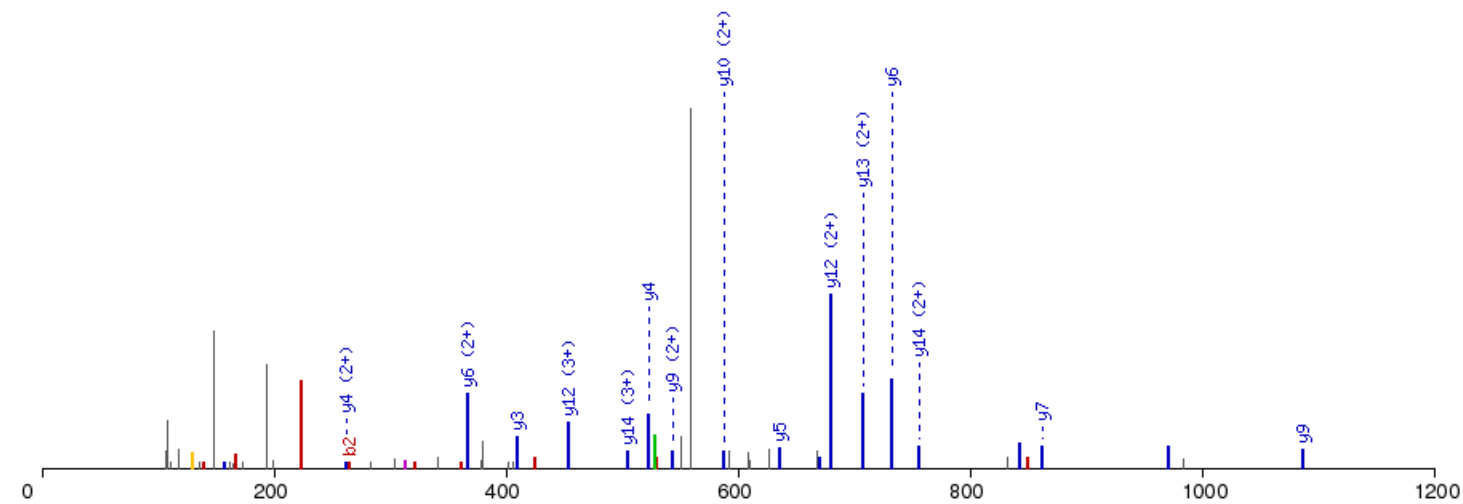
	S	T	F	H	A	G	Q	L	R	
	1	2	3	4	5	6	7	8	9	
a		241.06								a
a-79.97		161.09								a-79.97
a-97.98		143.08								a-97.98
b		269.05	416.12	553.18	624.22	681.24	809.30	922.38		b
b-79.97		189.09	336.16	473.21	544.25	601.27	729.33	842.42		b-79.97
b-97.98		171.08	318.14	455.20	526.24	583.26	711.32	824.40		b-97.98
b (2+)				277.09	312.61	341.12	405.15	461.69		b (2+)
b-79.97 (2+)				237.11	272.63	301.14	365.17	421.71		b-79.97 (2+)
b-97.98 (2+)				228.11	263.62	292.13	356.16	412.71		b-97.98 (2+)
y		929.50	828.45	681.38	544.32	473.28	416.26	288.20	175.12	y
y (2+)		465.25	414.73	341.19	272.66	237.15	208.63	144.61	88.06	y (2+)
	S	T	F	H	A	G	Q	L	R	
	9	8	7	6	5	4	3	2	1	

S(+79.97)PGPSSSPKEPLLFSR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 560.285, Calc. m/z: 560.281
Data File: Pepmix4_HCD.RAW.-1, Scans: 1613 - 1613

Max Intensity: 1.72e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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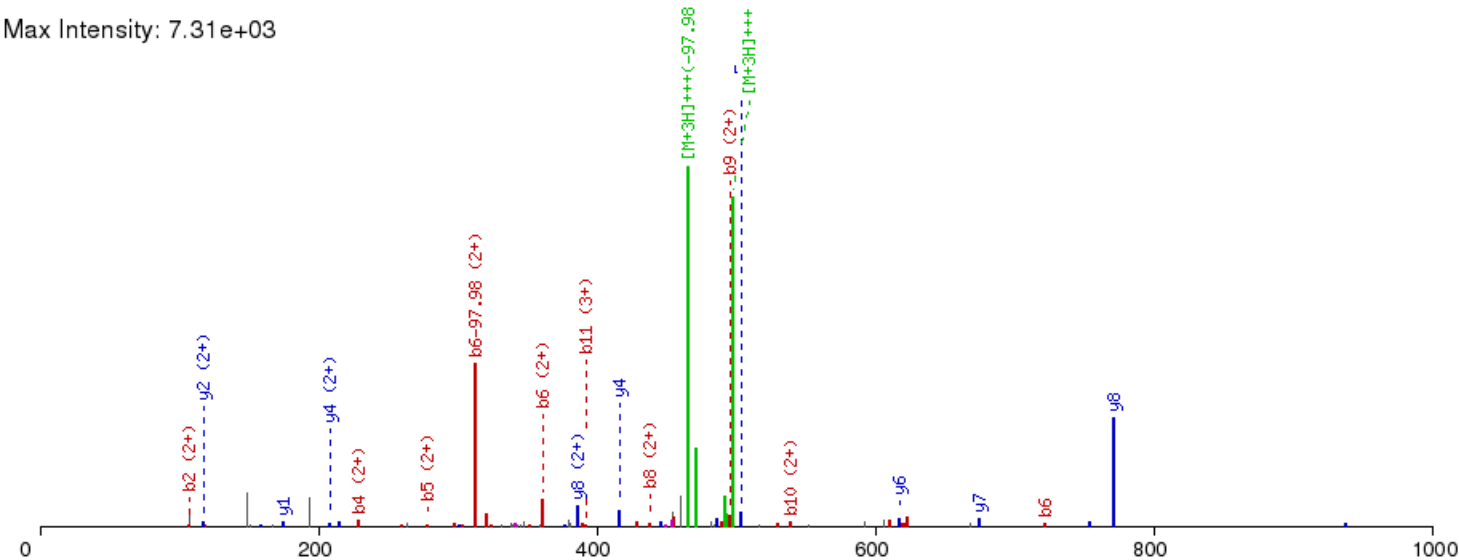
	S	P	G	P	S	S	P	K	E	P	L	L	F	S	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
a		237.06														a
a-79.97		157.10														a-79.97
a-97.98		139.09														a-97.98
b		265.06	322.08	419.13	506.16	593.20	690.25	818.34	947.39	1044.44	1157.52	1270.61	1417.68	1504.71		b
b-79.97		185.09	242.11	339.17	426.20	513.23	610.28	738.38	867.42	964.47	1077.56	1190.64	1337.71	1424.74		b-79.97
b-97.98		167.08	224.10	321.16	408.19	495.22	592.27	720.37	849.41	946.46	1059.55	1172.63	1319.70	1406.73		b-97.98
b (2+)								409.68	474.20	522.72	579.27	635.81	709.34	752.86		b (2+)
b-79.97 (2+)								369.69	434.21	482.74	539.28	595.82	669.36	712.87		b-79.97 (2+)
b-97.98 (2+)								360.69	425.21	473.74	530.28	586.82	660.35	703.87		b-97.98 (2+)
y		1511.82	1414.77	1357.75	1260.69	1173.66	1086.63	989.58	861.48	732.44	635.39	522.30	409.22	262.15	175.12	y
y (2+)		756.41	707.89	679.38	630.85	587.33	543.82	495.29	431.25	366.72	318.20	261.66	205.11	131.58	88.06	y (2+)
y (3+)		504.61	472.26	453.25	420.90	391.89	362.88	330.53								y (3+)
	S	P	G	P	S	S	P	K	E	P	L	L	F	S	R	
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

GRRSPS(+79.97)PGNSPSGR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 497.898, Calc. m/z: 497.901
Data File: Pepmix5_HCD.RAW.-1, Scans: 515 - 515

Max Intensity: 7.31e+03



Sequence Ladder Ions

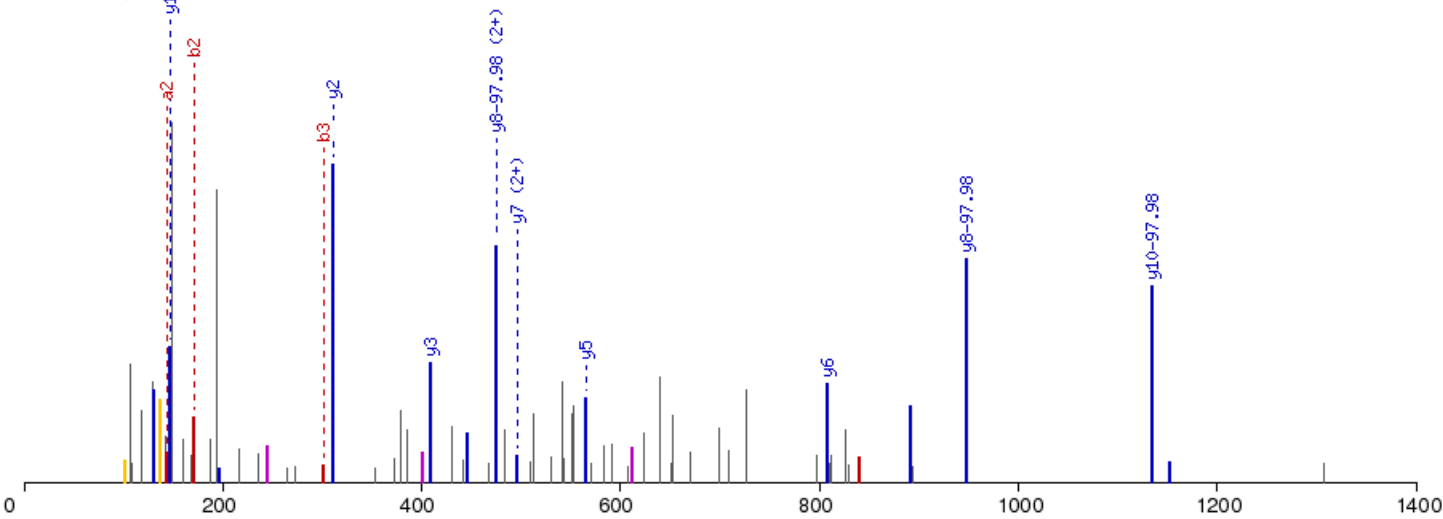
Key:	m/z out of range of spectrum				matched c-term ion			unmatched c-term ion			matched n-term ion			unmatched n-term ion		
	G	R	R	S	P	S	P	G	N	S	P	S	G	R		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14		
a		186.13													a	
a (2+)		93.57													a (2+)	
b		214.13	370.23	457.26	554.32	721.31	818.37	875.39	989.43	1076.46	1173.52	1260.55	1317.57		b	
b-79.97						641.35	738.40	795.42	909.46	996.50	1093.55	1180.58	1237.60		b-79.97	
b-97.98						623.34	720.39	777.41	891.45	978.49	1075.54	1162.57	1219.59		b-97.98	
b (2+)		107.57	185.62	229.14	277.66	361.16	409.69	438.20	495.22	538.74	587.26	630.78	659.29		b (2+)	
b-79.97 (2+)						321.18	369.70	398.21	455.24	498.75	547.28	590.79	619.31		b-79.97 (2+)	
b-97.98 (2+)						312.17	360.70	389.21	446.23	489.75	538.27	581.79	610.30		b-97.98 (2+)	
b (3+)			124.08	153.09	185.44	241.11	273.46	292.47	330.48	359.49	391.84	420.85	439.86		b (3+)	
b-79.97 (3+)						214.45	246.81	265.81	303.83	332.84	365.19	394.20	413.21		b-79.97 (3+)	
b-97.98 (3+)						208.45	240.80	259.81	297.82	326.83	359.18	388.20	407.20		b-97.98 (3+)	
y		1434.66	1278.56	1122.46	1035.43	938.37	771.37	674.32	617.30	503.26	416.23	319.17	232.14	175.12	y	
y-79.97		1354.69	1198.59	1042.49	955.46	858.41									y-79.97	
y-97.98		1336.68	1180.58	1024.48	937.45	840.40									y-97.98	
y (2+)		717.83	639.78	561.73	518.22	469.69	386.19	337.66	309.15	252.13	208.62	160.09	116.57	88.06	y (2+)	
y-79.97 (2+)		677.85	599.80	521.75	478.23	429.71									y-79.97 (2+)	
y-97.98 (2+)		668.85	590.79	512.74	469.23	420.70									y-97.98 (2+)	
y (3+)		478.89	426.86												y (3+)	
y-79.97 (3+)		452.24	400.20												y-79.97 (3+)	
y-97.98 (3+)		446.23	394.20												y-97.98 (3+)	
	G	R	R	S	P	S	P	G	N	S	P	S	G	R		
	14	13	12	11	10	9	8	7	6	5	4	3	2	1		

IGEGT(+79.97)Y(+79.97)GVVYK

Identified in MSS769 1 x Phospho (Y) 1 x Phospho (ST)

Charge: 2, Exp. m/z: 673.278, Calc. m/z: 673.282
Data File: Pepmix1_HCD.RAW.-1, Scans: 1403 - 1403

Max Intensity: 7.28e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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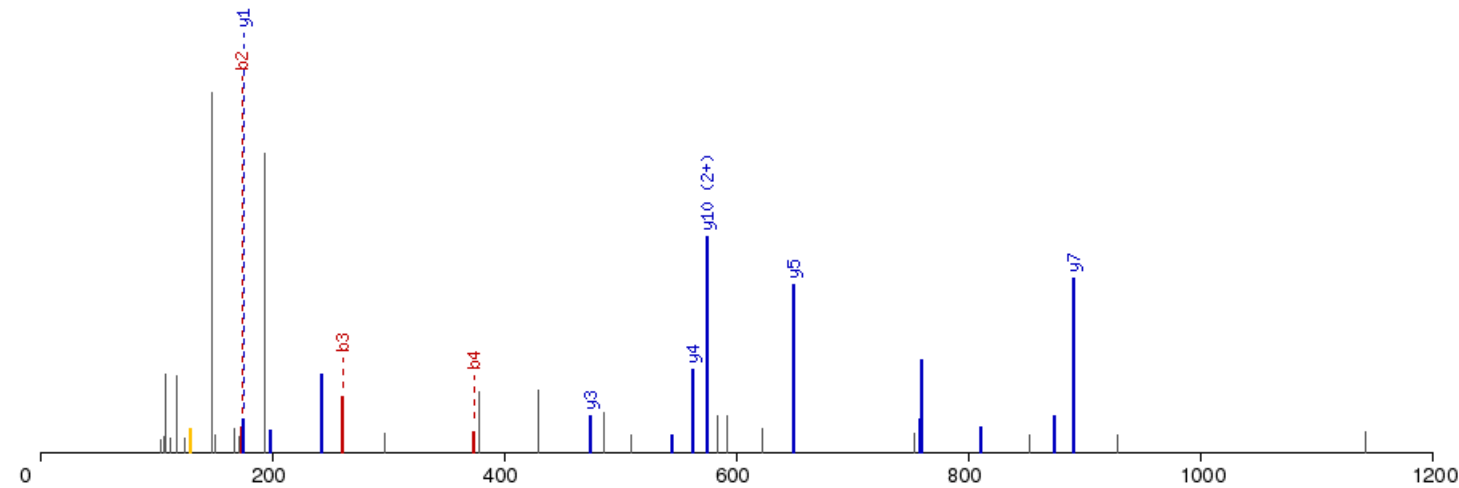
	I	G	E	G	T	Y	G	V	V	Y	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		143.12										a
b		171.11	300.16	357.18	538.19	781.22	838.24	937.31	1036.38	1199.44		b
b-79.97					458.22	701.25	758.28	857.34	956.41	1119.48		b-79.97
b-97.98					440.21	683.24	740.27	839.33	938.40	1101.47		b-97.98
y		1232.46	1175.44	1046.40	989.38	808.36	565.33	508.31	409.24	310.18	147.11	y
y-79.97		1152.50	1095.48	966.43	909.41	728.40						y-79.97
y-97.98		1134.49	1077.47	948.42	891.40							y-97.98
y (2+)		616.74	588.22	523.70	495.19	404.69	283.17	254.66	205.13	155.59	74.06	y (2+)
y-79.97 (2+)		576.75	548.24	483.72	455.21	364.70						y-79.97 (2+)
y-97.98 (2+)		567.75	539.24	474.71	446.20							y-97.98 (2+)
	I	G	E	G	T	Y	G	V	V	Y	K	
	11	10	9	8	7	6	5	4	3	2	1	

DGSLNQSSGY(+79.97)R

Identified in MSS769 1 x Phospho (Y)

Charge: 2, Exp. m/z: 632.254, Calc. m/z: 632.252
Data File: Pepmix2_HCD.RAW.-1, Scans: 813 - 813

Max Intensity: 7.04e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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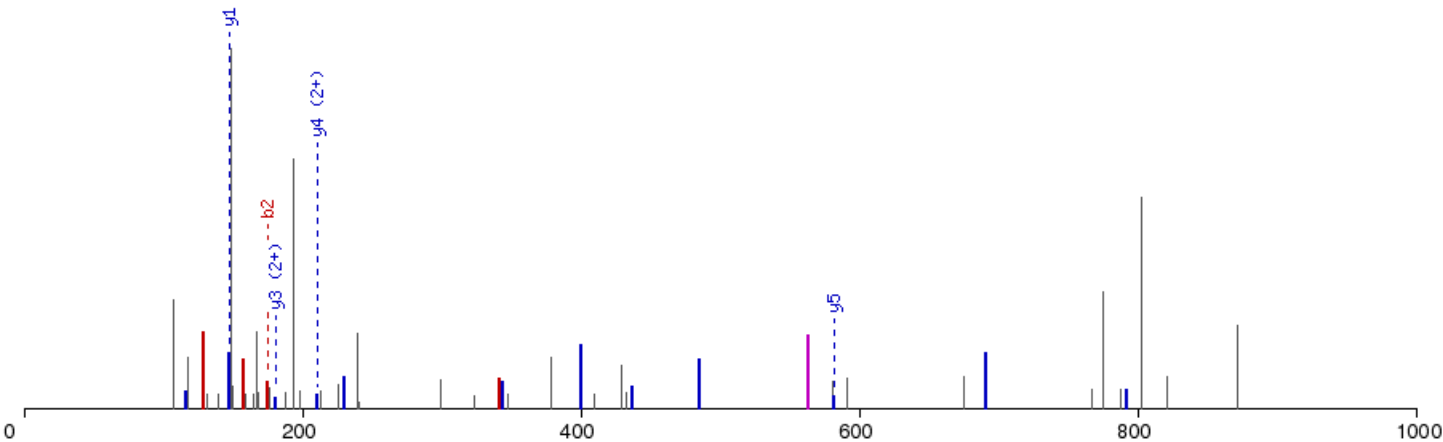
	D	G	S	L	N	Q	S	S	G	Y	R	
	1	2	3	4	5	6	7	8	9	10	11	
a		145.06										a
b		173.06	260.09	373.17	487.21	615.27	702.31	789.34	846.36	1089.39		b
b-79.97										1009.42		b-79.97
y		1148.47	1091.45	1004.42	891.34	777.29	649.23	562.20	475.17	418.15	175.12	y
y-79.97		1068.51	1011.49	924.45	811.37	697.33	569.27	482.24	395.20	338.18		y-79.97
y (2+)		574.74	546.23	502.71	446.17	389.15	325.12	281.60	238.09	209.58	88.06	y (2+)
y-79.97 (2+)		534.76	506.25	462.73	406.19	349.17	285.14	241.62	198.11	169.59		y-79.97 (2+)
	D	G	S	L	N	Q	S	S	G	Y	R	
	11	10	9	8	7	6	5	4	3	2	1	

SSSPT(+79.97)QYGLTK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 624.779, Calc. m/z: 624.782
Data File: Pepmix2_HCD.RAW.-1, Scans: 1173 - 1173

Max Intensity: 7.41e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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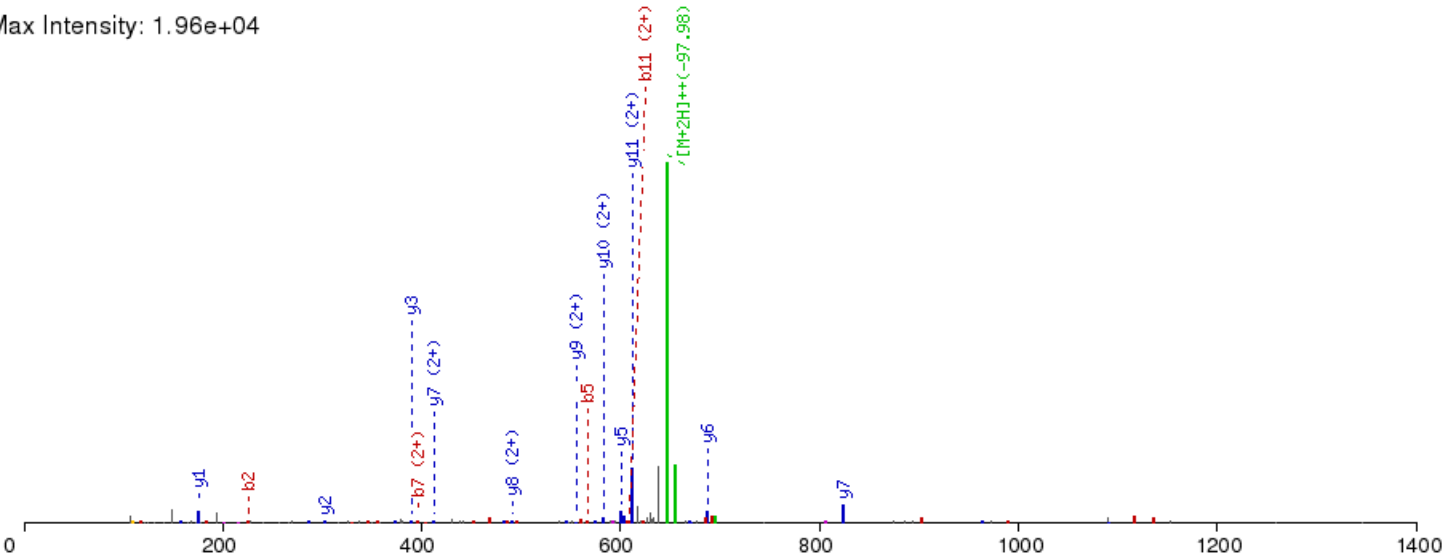
	S	S	S	P	T	Q	Y	G	L	T	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		147.08										a
b		175.07	262.10	359.16	540.17	668.23	831.29	888.31	1001.40	1102.45		b
b-79.97					460.20	588.26	751.33	808.35	921.43	1022.48		b-79.97
b-97.98					442.19	570.25	733.32	790.34	903.42	1004.47		b-97.98
y		1161.52	1074.49	987.45	890.40	709.39	581.33	418.27	361.24	248.16	147.11	y
y-79.97		1081.55	994.52	907.49	810.44							y-79.97
y-97.98		1063.54	976.51	889.48	792.43							y-97.98
y (2+)		581.26	537.75	494.23	445.70	355.20	291.17	209.64	181.13	124.58	74.06	y (2+)
y-79.97 (2+)		541.28	497.76	454.25	405.72							y-79.97 (2+)
y-97.98 (2+)		532.27	488.76	445.24	396.72							y-97.98 (2+)
	S	S	S	P	T	Q	Y	G	L	T	K	
	11	10	9	8	7	6	5	4	3	2	1	

S(+79.97)GGQRHSPLSQR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 695.323, Calc. m/z: 695.327
Data File: Pepmix4_HCD.RAW.-1, Scans: 647 - 647

Max Intensity: 1.96e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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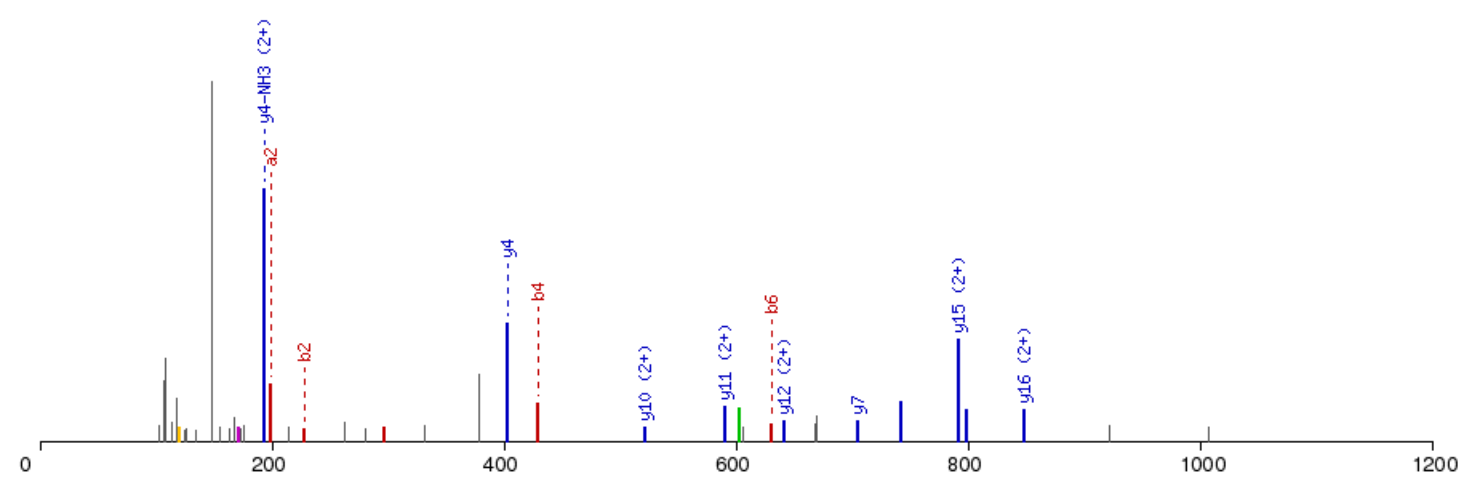
	S	G	G	Q	R	H	S	P	L	S	Q	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		197.03											a
a-79.97		117.07											a-79.97
a-97.98		99.06											a-97.98
b		225.03	282.05	410.11	566.21	703.27	790.30	887.35	1000.44	1087.47	1215.53		b
b-79.97		145.06	202.08	330.14	486.24	623.30	710.33	807.39	920.47	1007.50	1135.56		b-79.97
b-97.98		127.05	184.07	312.13	468.23	605.29	692.32	789.38	902.46	989.49	1117.55		b-97.98
b (2+)					283.61	352.14	395.65	444.18	500.72	544.24	608.27		b (2+)
b-79.97 (2+)					243.62	312.15	355.67	404.20	460.74	504.25	568.28		b-79.97 (2+)
b-97.98 (2+)					234.62	303.15	346.66	395.19	451.73	495.25	559.28		b-97.98 (2+)
y		1222.64	1165.62	1108.60	980.54	824.44	687.38	600.35	503.29	390.21	303.18	175.12	y
y (2+)		611.82	583.31	554.80	490.77	412.72	344.19	300.68	252.15	195.61	152.09	88.06	y (2+)
	S	G	G	Q	R	H	S	P	L	S	Q	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

ILSDVTHS(+79.97)AVFGVPASK

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 603.305, Calc. m/z: 603.307
Data File: Pepmix1_HCD.RAW.-1, Scans: 1708 - 1708

Max Intensity: 7.85e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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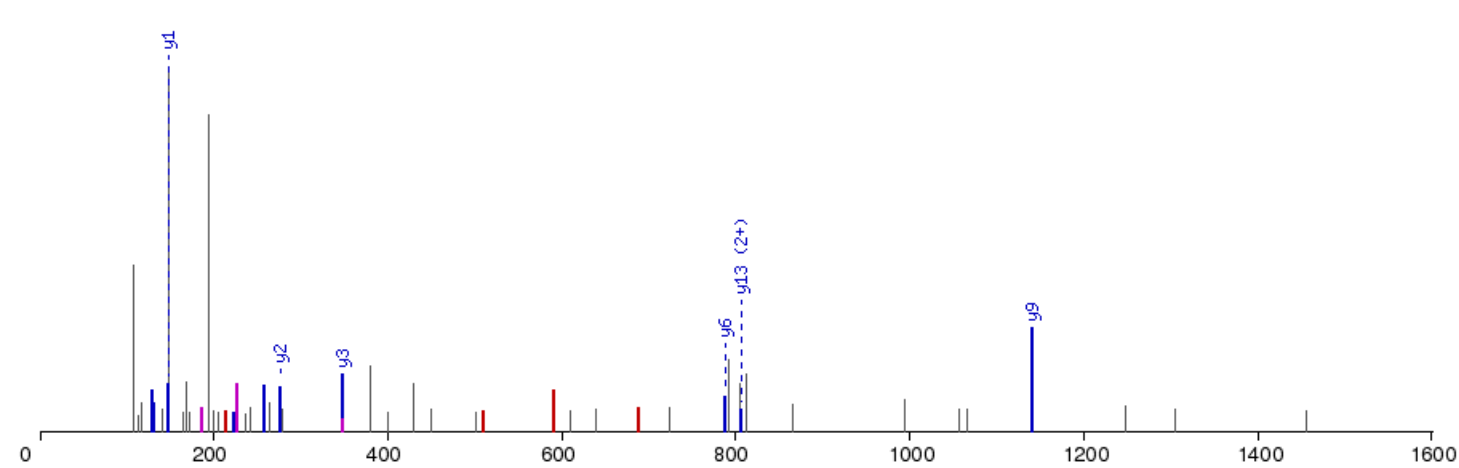
	I	L	S	D	V	T	H	S	A	V	F	G	V	P	A	S	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
a		199.18																a
b		227.18	314.21	429.23	528.30	629.35	766.41	933.41	1004.44	1103.51	1250.58	1307.60	1406.67	1503.72	1574.76	1661.79		b
b-79.97								853.44	924.48	1023.55	1170.62	1227.64	1326.71	1423.76	1494.80	1581.83		b-79.97
b-97.98								835.43	906.47	1005.54	1152.60	1209.63	1308.69	1405.75	1476.78	1563.82		b-97.98
b (2+)							383.71	467.21	502.73	552.26	625.79	654.31	703.84	752.37	787.88	831.40		b (2+)
b-79.97 (2+)								427.22	462.74	512.28	585.81	614.32	663.86	712.38	747.90	791.42		b-79.97 (2+)
b-97.98 (2+)								418.22	453.74	503.27	576.81	605.32	654.85	703.38	738.90	782.41		b-97.98 (2+)
y		1694.81	1581.73	1494.70	1379.67	1280.60	1179.56	1042.50	875.50	804.46	705.39	558.32	501.30	402.23	305.18	234.14	147.11	y
y-79.97		1614.85	1501.76	1414.73	1299.71	1200.64	1099.59	962.53										y-79.97
y-97.98		1596.84	1483.75	1396.72	1281.69	1182.63	1081.58	944.52										y-97.98
y (2+)		847.91	791.37	747.85	690.34	640.81	590.28	521.75	438.25	402.73	353.20	279.67	251.16	201.62	153.09	117.58	74.06	y (2+)
y-79.97 (2+)		807.93	751.39	707.87	650.36	600.82	550.30	481.77										y-79.97 (2+)
y-97.98 (2+)		798.92	742.38	698.86	641.35	591.82	541.29	472.76										y-97.98 (2+)
y (3+)		565.61	527.92	498.90	460.56	427.54	393.86											y (3+)
y-79.97 (3+)		538.95	501.26	472.25	433.91	400.88	367.20											y-79.97 (3+)
y-97.98 (3+)		532.95	495.26	466.25	427.90	394.88	361.20											y-97.98 (3+)
	I	L	S	D	V	T	H	S	A	V	F	G	V	P	A	S	K	
	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

ETT(+79.97)TSPKKYYLAEK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 869.920, Calc. m/z: 869.922
Data File: Pepmix1_HCD.RAW.-1, Scans: 1101 - 1101

Max Intensity: 5.87e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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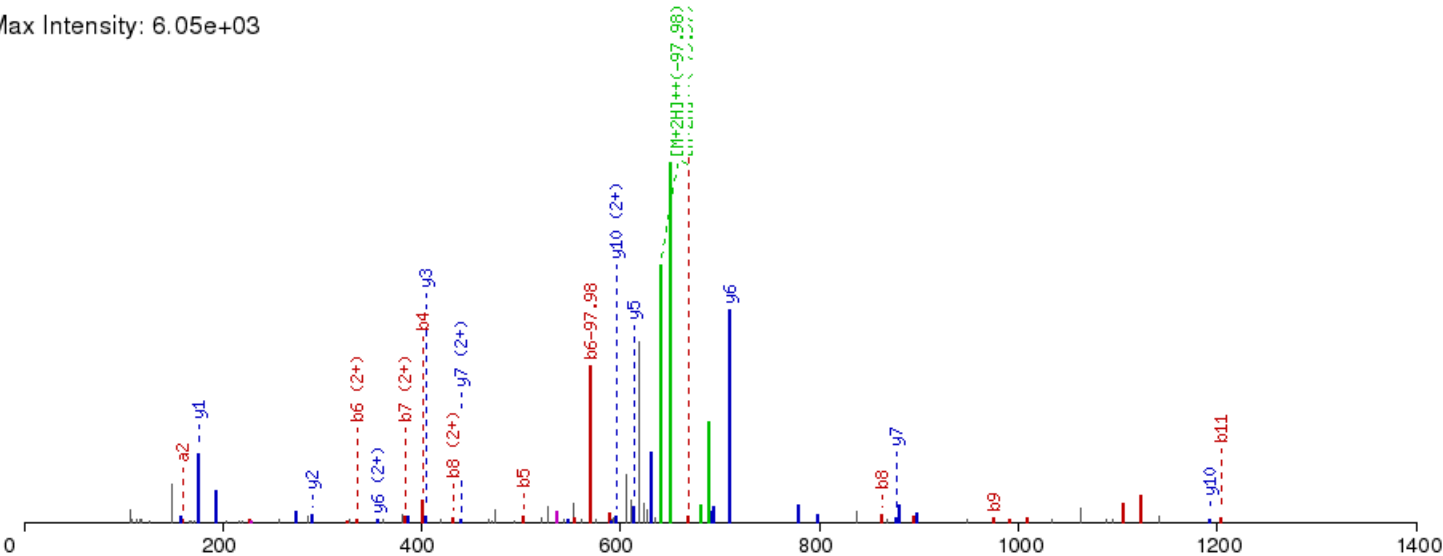
	E	T	T	T	S	P	K	K	Y	Y	L	A	E	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		203.10													a
b		231.10	412.11	513.16	600.19	697.24	825.34	953.43	1116.50	1279.56	1392.64	1463.68	1592.72		b
b-79.97			332.15	433.19	520.22	617.28	745.37	873.47	1036.53	1199.59	1312.68	1383.72	1512.76		b-79.97
b-97.98			314.13	415.18	502.21	599.27	727.36	855.46	1018.52	1181.58	1294.67	1365.70	1494.75		b-97.98
b (2+)							413.17	477.22	558.75	640.28	696.83	732.34	796.87		b (2+)
b-79.97 (2+)							373.19	437.24	518.77	600.30	656.84	692.36	756.88		b-79.97 (2+)
b-97.98 (2+)							364.18	428.23	509.76	591.30	647.84	683.36	747.88		b-97.98 (2+)
y		1609.79	1508.74	1327.73	1226.68	1139.65	1042.59	914.50	786.40	623.34	460.28	347.19	276.16	147.11	y
y-79.97		1529.82	1428.77												y-79.97
y-97.98		1511.81	1410.76												y-97.98
y (2+)		805.40	754.87	664.37	613.84	570.33	521.80	457.75	393.71	312.17	230.64	174.10	138.58	74.06	y (2+)
y-79.97 (2+)		765.41	714.89												y-79.97 (2+)
y-97.98 (2+)		756.41	705.88												y-97.98 (2+)
	E	T	T	T	S	P	K	K	Y	Y	L	A	E	K	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

VSGRTS(+79.97)PPLDR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 689.348, Calc. m/z: 689.352
Data File: Pepmix5_HCD.RAW.-1, Scans: 1156 - 1156

Max Intensity: 6.05e+03



Sequence Ladder Ions

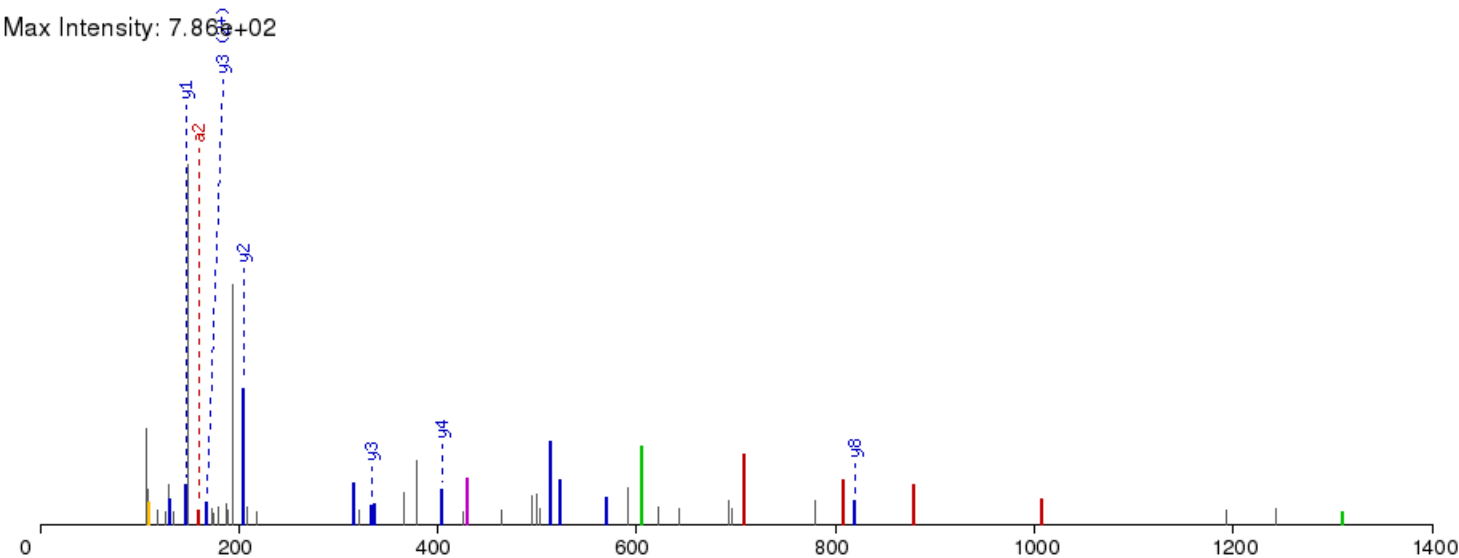
Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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	V	S	G	R	T	S	P	P	L	L	D	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		159.11											a
b		187.11	244.13	400.23	501.28	668.28	765.33	862.38	975.47	1088.55	1203.58		b
b-79.97						588.31	685.36	782.42	895.50	1008.58	1123.61		b-79.97
b-97.98						570.30	667.35	764.40	877.49	990.57	1105.60		b-97.98
b (2+)				200.62	251.14	334.64	383.17	431.69	488.24	544.78	602.29		b (2+)
b-79.97 (2+)						294.66	343.19	391.71	448.25	504.80	562.31		b-79.97 (2+)
b-97.98 (2+)						285.65	334.18	382.71	439.25	495.79	553.30		b-97.98 (2+)
y		1278.62	1191.59	1134.57	978.47	877.42	710.42	613.37	516.31	403.23	290.15	175.12	y
y-79.97		1198.65	1111.62	1054.60	898.50	797.45							y-79.97
y-97.98		1180.64	1093.61	1036.59	880.49	779.44							y-97.98
y (2+)		639.81	596.30	567.79	489.74	439.21	355.71	307.19	258.66	202.12	145.58	88.06	y (2+)
y-79.97 (2+)		599.83	556.31	527.80	449.75	399.23							y-79.97 (2+)
y-97.98 (2+)		590.83	547.31	518.80	440.75	390.22							y-97.98 (2+)
	V	S	G	R	T	S	P	P	L	L	D	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

ADS(+79.97)HEGEVAEGK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 654.759, Calc. m/z: 654.762
Data File: Pepmix1_HCD.RAW.-1, Scans: 687 - 687



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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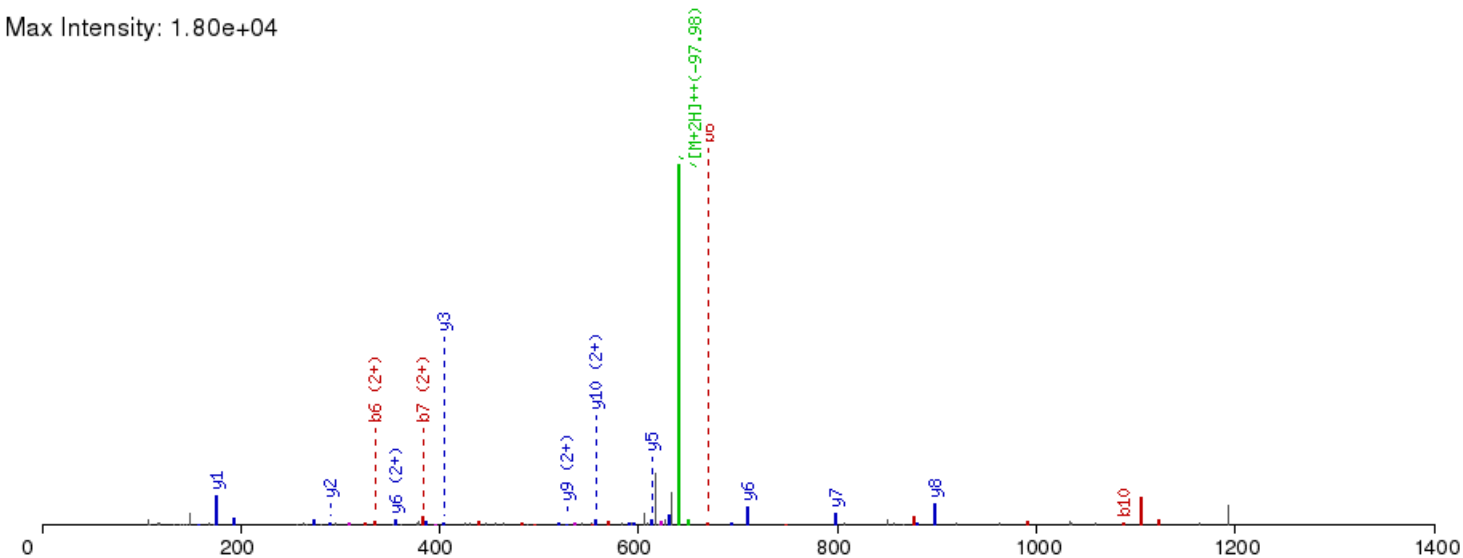
	A	D	S	H	E	G	E	V	A	E	G	K	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		159.08											a
b		187.07	354.07	491.13	620.17	677.19	806.24	905.30	976.34	1105.38	1162.40		b
b-79.97			274.10	411.16	540.20	597.23	726.27	825.34	896.37	1025.42	1082.44		b-79.97
b-97.98			256.09	393.15	522.19	579.22	708.26	807.33	878.36	1007.41	1064.43		b-97.98
b (2+)				246.07	310.59	339.10	403.62	453.16	488.67	553.20	581.71		b (2+)
b-79.97 (2+)				206.08	270.61	299.12	363.64	413.17	448.69	513.21	541.72		b-79.97 (2+)
b-97.98 (2+)				197.08	261.60	290.11	354.63	404.17	439.69	504.21	532.72		b-97.98 (2+)
y		1237.47	1122.45	955.45	818.39	689.35	632.32	503.28	404.21	333.18	204.13	147.11	y
y-79.97		1157.51	1042.48										y-79.97
y-97.98		1139.50	1024.47										y-97.98
y (2+)		619.24	561.73	478.23	409.70	345.18	316.67	252.14	202.61	167.09	102.57	74.06	y (2+)
y-79.97 (2+)		579.26	521.74										y-79.97 (2+)
y-97.98 (2+)		570.25	512.74										y-97.98 (2+)
	A	D	S	H	E	G	E	V	A	E	G	K	
	12	11	10	9	8	7	6	5	4	3	2	1	

VS(+79.97)GRTSPLLDR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 689.348, Calc. m/z: 689.352
Data File: Pepmix4_HCD.RAW.-1, Scans: 1259 - 1259

Max Intensity: 1.80e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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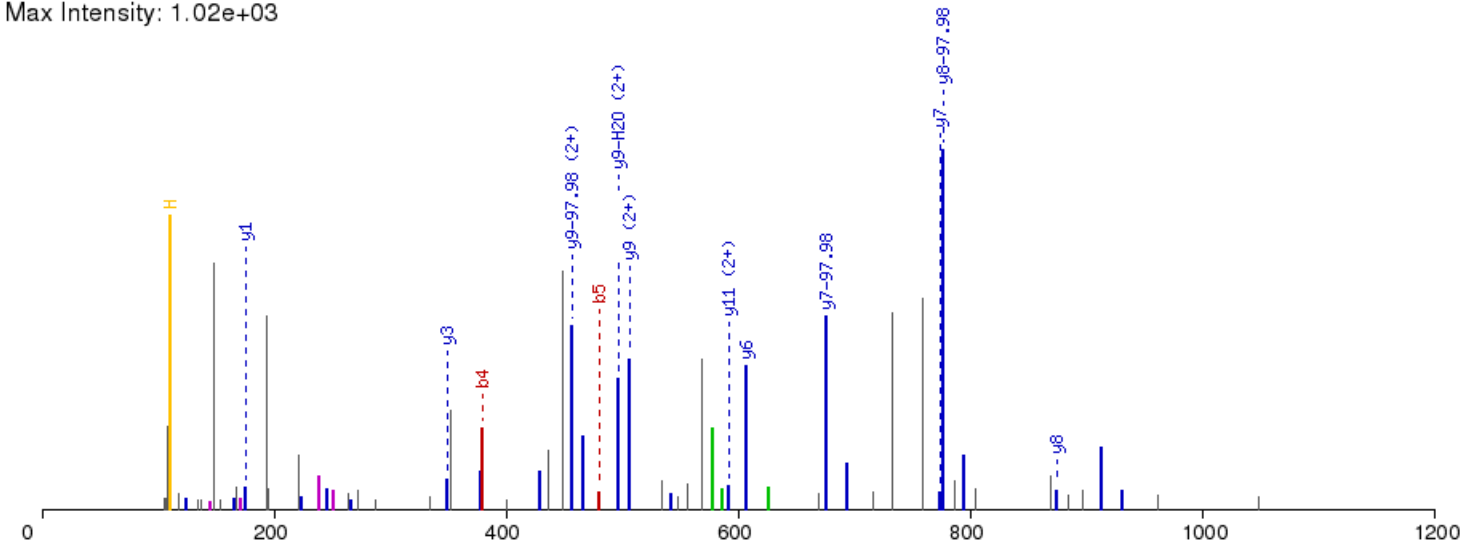
	V	S	G	R	T	S	P	P	L	L	D	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		239.08											a
a-79.97		159.11											a-79.97
a-97.98		141.10											a-97.98
b		267.07	324.10	480.20	581.24	668.28	765.33	862.38	975.47	1088.55	1203.58		b
b-79.97		187.11	244.13	400.23	501.28	588.31	685.36	782.42	895.50	1008.58	1123.61		b-79.97
b-97.98		169.10	226.12	382.22	483.27	570.30	667.35	764.40	877.49	990.57	1105.60		b-97.98
b (2+)				240.60	291.13	334.64	383.17	431.69	488.24	544.78	602.29		b (2+)
b-79.97 (2+)				200.62	251.14	294.66	343.19	391.71	448.25	504.80	562.31		b-79.97 (2+)
b-97.98 (2+)				191.61	242.14	285.65	334.18	382.71	439.25	495.79	553.30		b-97.98 (2+)
y		1278.62	1111.62	1054.60	898.50	797.45	710.42	613.37	516.31	403.23	290.15	175.12	y
y-79.97		1198.65											y-79.97
y-97.98		1180.64											y-97.98
y (2+)		639.81	556.31	527.80	449.75	399.23	355.71	307.19	258.66	202.12	145.58	88.06	y (2+)
y-79.97 (2+)		599.83											y-79.97 (2+)
y-97.98 (2+)		590.83											y-97.98 (2+)
	V	S	G	R	T	S	P	P	L	L	D	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

AGIHTS(+79.97)GSLSSR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 626.788, Calc. m/z: 626.792
Data File: Pepmix3_HCD.RAW.-1, Scans: 840 - 840

Max Intensity: 1.02e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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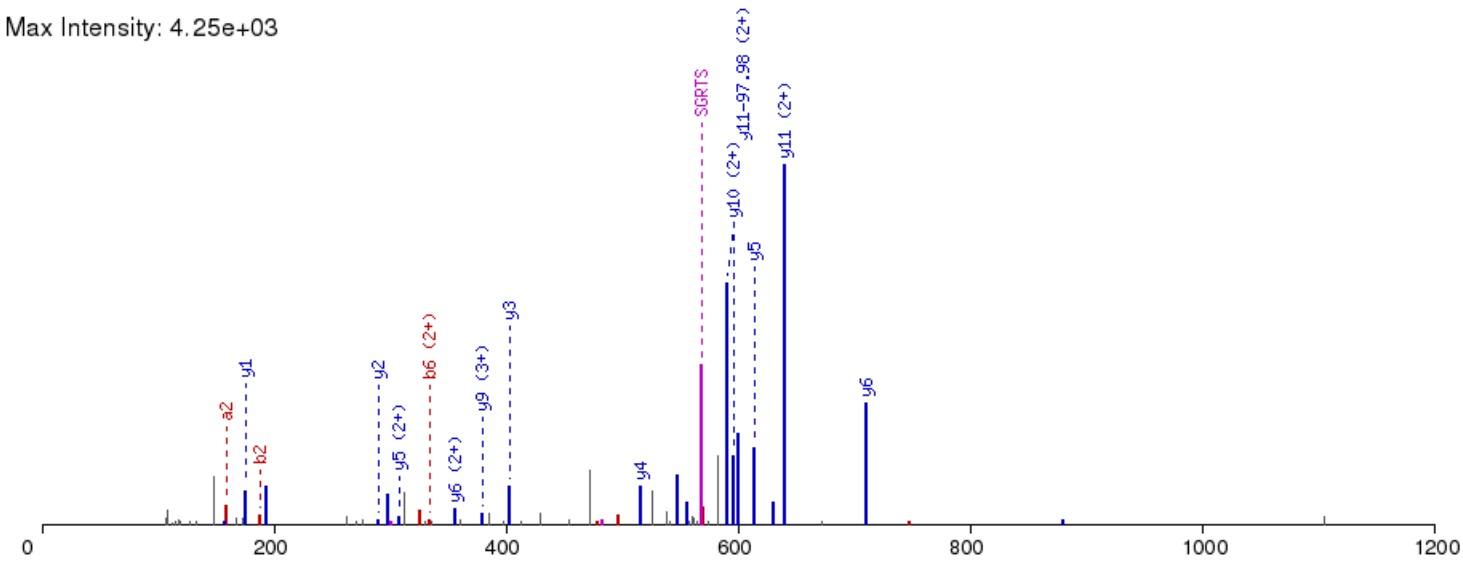
	A	G	I	H	T	S	G	S	L	S	S	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		101.07											a
b		129.07	242.15	379.21	480.26	647.25	704.28	791.31	904.39	991.42	1078.46		b
b-79.97						567.29	624.31	711.34	824.43	911.46	998.49		b-79.97
b-97.98						549.28	606.30	693.33	806.42	893.45	980.48		b-97.98
b (2+)				190.11	240.63	324.13	352.64	396.16	452.70	496.22	539.73		b (2+)
b-79.97 (2+)						284.15	312.66	356.17	412.72	456.23	499.75		b-79.97 (2+)
b-97.98 (2+)						275.14	303.65	347.17	403.71	447.23	490.74		b-97.98 (2+)
y		1181.53	1124.51	1011.43	874.37	773.32	606.32	549.30	462.27	349.18	262.15	175.12	y
y-79.97		1101.56	1044.54	931.46	794.40	693.35							y-79.97
y-97.98		1083.55	1026.53	913.45	776.39	675.34							y-97.98
y (2+)		591.27	562.76	506.22	437.69	387.16	303.66	275.15	231.64	175.10	131.58	88.06	y (2+)
y-79.97 (2+)		551.29	522.78	466.23	397.70	347.18							y-79.97 (2+)
y-97.98 (2+)		542.28	513.77	457.23	388.70	338.17							y-97.98 (2+)
	A	G	I	H	T	S	G	S	L	S	S	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

VSGRTS(+79.97)PPLDR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 459.901, Calc. m/z: 459.904
Data File: Pepmix5_HCD.RAW.-1, Scans: 1175 - 1175

Max Intensity: 4.25e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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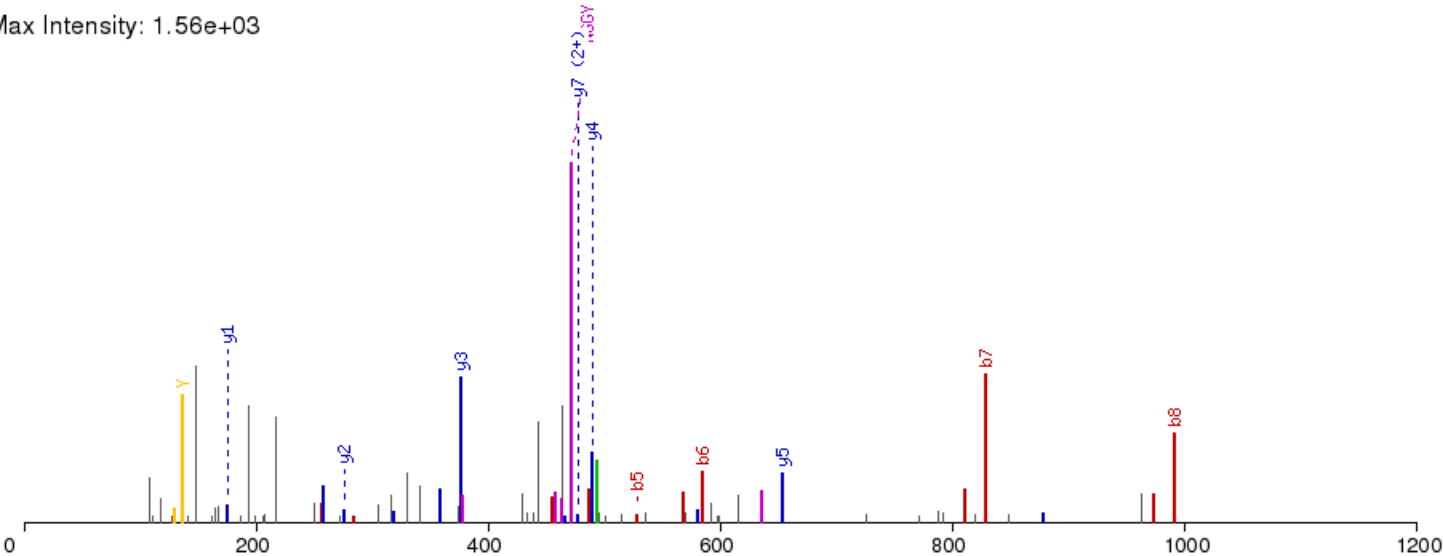
	V	S	G	R	T	S	P	P	L	L	D	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		159.11											a
b		187.11	244.13	400.23	501.28	668.28	765.33	862.38	975.47	1088.55	1203.58		b
b-79.97						588.31	685.36	782.42	895.50	1008.58	1123.61		b-79.97
b-97.98						570.30	667.35	764.40	877.49	990.57	1105.60		b-97.98
b (2+)				200.62	251.14	334.64	383.17	431.69	488.24	544.78	602.29		b (2+)
b-79.97 (2+)						294.66	343.19	391.71	448.25	504.80	562.31		b-79.97 (2+)
b-97.98 (2+)						285.65	334.18	382.71	439.25	495.79	553.30		b-97.98 (2+)
y		1278.62	1191.59	1134.57	978.47	877.42	710.42	613.37	516.31	403.23	290.15	175.12	y
y-79.97		1198.65	1111.62	1054.60	898.50	797.45							y-79.97
y-97.98		1180.64	1093.61	1036.59	880.49	779.44							y-97.98
y (2+)		639.81	596.30	567.79	489.74	439.21	355.71	307.19	258.66	202.12	145.58	88.06	y (2+)
y-79.97 (2+)		599.83	556.31	527.80	449.75	399.23							y-79.97 (2+)
y-97.98 (2+)		590.83	547.31	518.80	440.75	390.22							y-97.98 (2+)
y (3+)		426.88	397.87	378.86									y (3+)
y-79.97 (3+)		400.22	371.21	352.20									y-79.97 (3+)
y-97.98 (3+)		394.22	365.21	346.20									y-97.98 (3+)
	V	S	G	R	T	S	P	P	L	L	D	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

KLDNGGY(+79.97)YITTR

Identified in MSS769 1 x Phospho (Y)

Charge: 3, Exp. m/z: 494.232, Calc. m/z: 494.234
Data File: Pepmix2_HCD.RAW.-1, Scans: 1166 - 1166

Max Intensity: 1.56e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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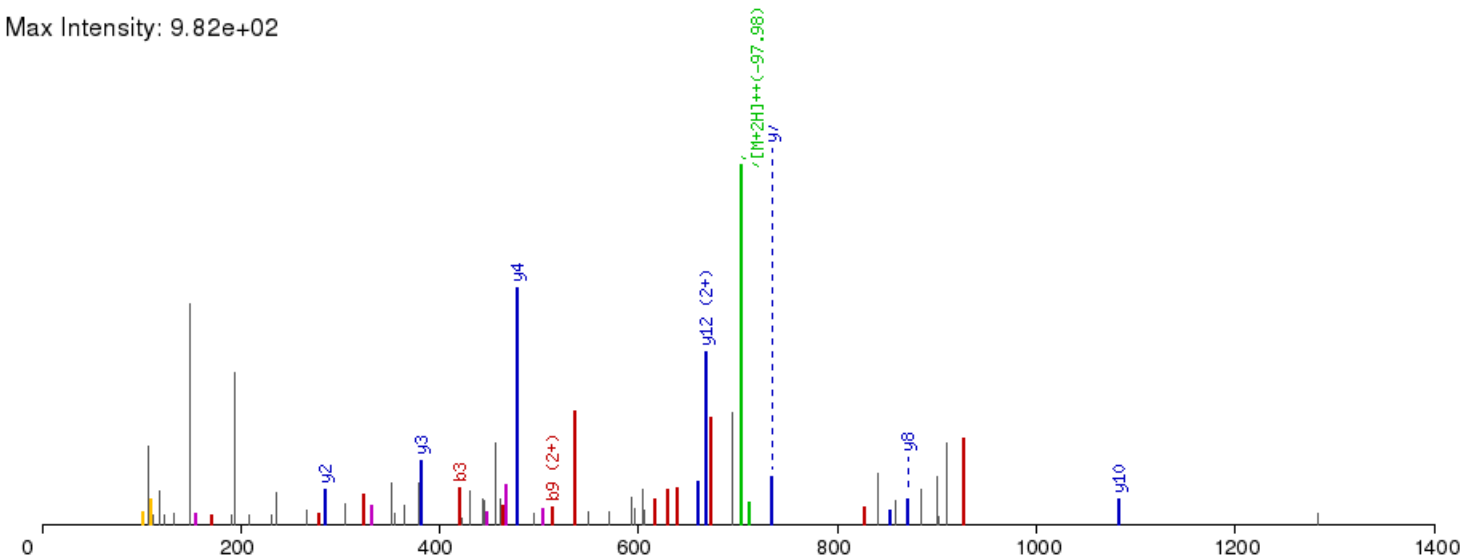
	K	L	D	N	G	G	Y	Y	I	T	T	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		214.19											a
a (2+)		107.60											a (2+)
b		242.19	357.21	471.26	528.28	585.30	828.33	991.39	1104.48	1205.52	1306.57		b
b-79.97							748.36	911.43	1024.51	1125.56	1226.61		b-79.97
b (2+)		121.60	179.11	236.13	264.64	293.15	414.67	496.20	552.74	603.27	653.79		b (2+)
b-79.97 (2+)							374.68	456.22	512.76	563.28	613.81		b-79.97 (2+)
y		1352.59	1239.50	1124.48	1010.43	953.41	896.39	653.36	490.30	377.21	276.17	175.12	y
y-79.97		1272.62	1159.54	1044.51	930.47	873.45	816.43						y-79.97
y (2+)		676.80	620.26	562.74	505.72	477.21	448.70	327.18	245.65	189.11	138.59	88.06	y (2+)
y-79.97 (2+)		636.81	580.27	522.76	465.74	437.23	408.72						y-79.97 (2+)
	K	L	D	N	G	G	Y	Y	I	T	T	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

S(+79.97)PRPDHPGTPPHK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 751.850, Calc. m/z: 751.852
Data File: Pepmix4_HCD.RAW.-1, Scans: 560 - 560

Max Intensity: 9.82e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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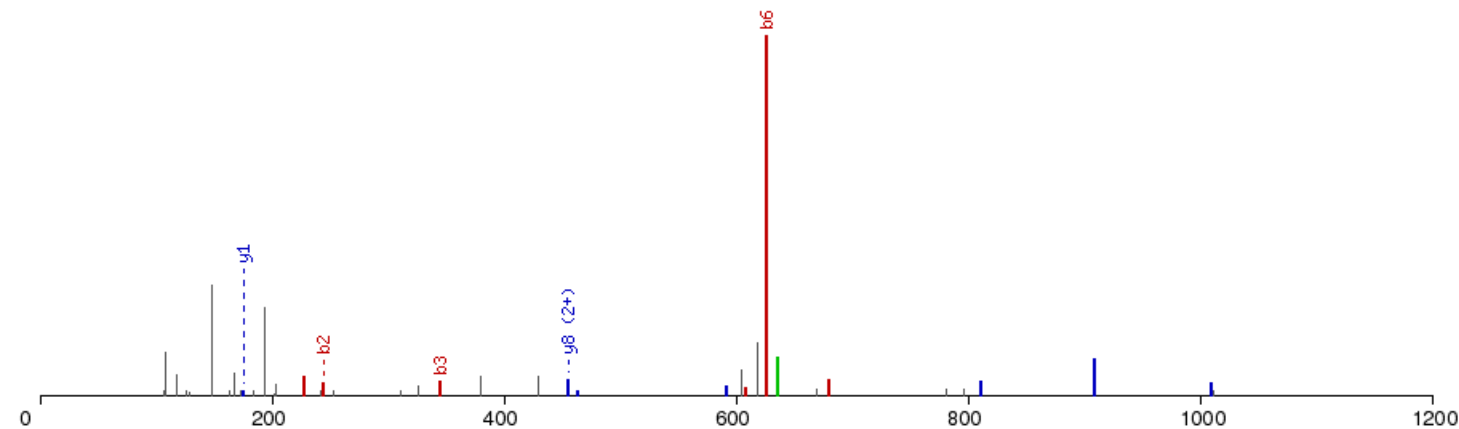
	S	P	R	P	D	H	P	G	T	P	P	H	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	
a		237.06												a
a-79.97		157.10												a-79.97
a-97.98		139.09												a-97.98
b		265.06	421.16	518.21	633.24	770.30	867.35	924.37	1025.42	1122.47	1219.53	1356.58		b
b-79.97		185.09	341.19	438.25	553.27	690.33	787.38	844.41	945.45	1042.51	1139.56	1276.62		b-79.97
b-97.98		167.08	323.18	420.24	535.26	672.32	769.37	826.40	927.44	1024.50	1121.55	1258.61		b-97.98
b (2+)			211.08	259.61	317.12	385.65	434.18	462.69	513.21	561.74	610.27	678.80		b (2+)
b-79.97 (2+)			171.10	219.63	277.14	345.67	394.20	422.71	473.23	521.76	570.28	638.81		b-79.97 (2+)
b-97.98 (2+)			162.09	210.62	268.13	336.66	385.19	413.70	464.23	512.75	561.28	629.81		b-97.98 (2+)
y		1335.69	1238.64	1082.54	985.49	870.46	733.40	636.35	579.32	478.28	381.22	284.17	147.11	y
y (2+)		668.35	619.82	541.77	493.25	435.73	367.20	318.68	290.17	239.64	191.12	142.59	74.06	y (2+)
	S	P	R	P	D	H	P	G	T	P	P	H	K	
	13	12	11	10	9	8	7	6	5	4	3	2	1	

SRTPPSAPS(+79.97)QSR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 675.813, Calc. m/z: 675.812
Data File: Pepmix5_HCD.RAW.-1, Scans: 727 - 727

Max Intensity: 2.23e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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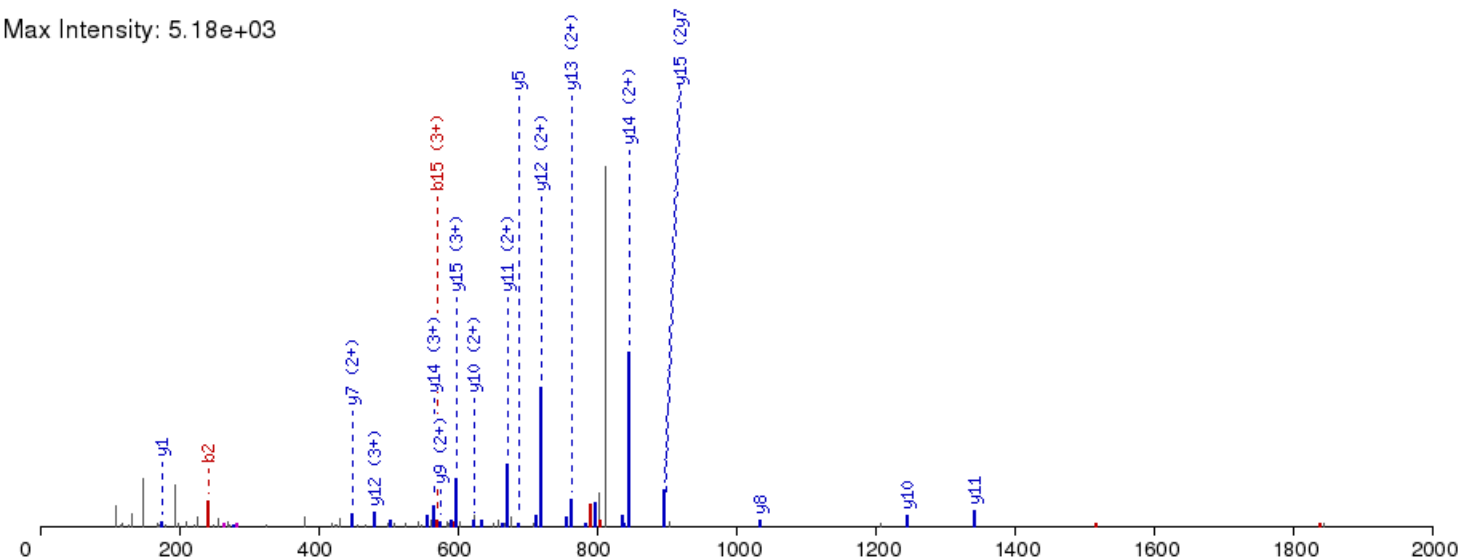
	S	R	T	P	P	S	A	P	S	Q	S	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		216.15											a
a (2+)		108.58											a (2+)
b		244.14	345.19	442.24	539.29	626.33	697.36	794.42	961.41	1089.47	1176.50		b
b-79.97									881.45	1009.51	1096.54		b-79.97
b-97.98									863.44	991.50	1078.53		b-97.98
b (2+)		122.57	173.10	221.62	270.15	313.67	349.19	397.71	481.21	545.24	588.76		b (2+)
b-79.97 (2+)									441.23	505.26	548.77		b-79.97 (2+)
b-97.98 (2+)									432.22	496.25	539.77		b-97.98 (2+)
y		1263.58	1107.48	1006.44	909.38	812.33	725.30	654.26	557.21	390.21	262.15	175.12	y
y-79.97		1183.62	1027.52	926.47	829.42	732.36	645.33	574.29	477.24				y-79.97
y-97.98		1165.61	1009.51	908.46	811.41	714.35	627.32	556.28	459.23				y-97.98
y (2+)		632.30	554.25	503.72	455.19	406.67	363.15	327.63	279.11	195.61	131.58	88.06	y (2+)
y-79.97 (2+)		592.31	514.26	463.74	415.21	366.69	323.17	287.65	239.12				y-79.97 (2+)
y-97.98 (2+)		583.31	505.26	454.73	406.21	357.68	314.16	278.65	230.12				y-97.98 (2+)
	S	R	T	P	P	S	A	P	S	Q	S	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

IQPS(+79.97)SPPPNHPNNHLFR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 677.990, Calc. m/z: 677.991
Data File: Pepmix3_HCD.RAW.-1, Scans: 1171 - 1171

Max Intensity: 5.18e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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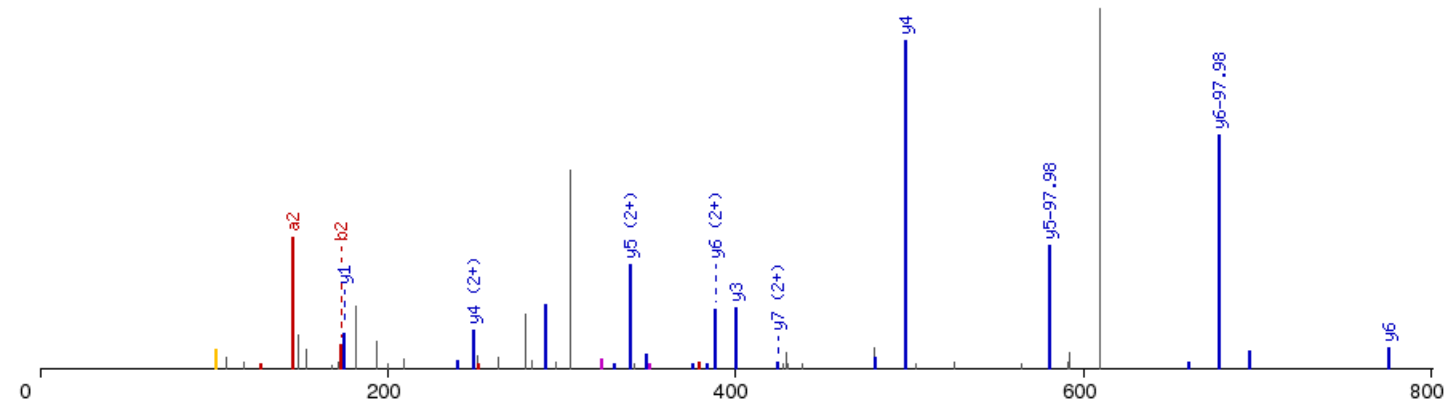
	I	Q	P	S	S	P	P	P	N	H	P	N	N	H	L	F	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
a		214.16																a
b		242.15	339.20	506.20	593.23	690.29	787.34	884.39	998.43	1135.49	1232.55	1346.59	1460.63	1597.69	1710.77	1857.84		b
b-79.97				426.23	513.27	610.32	707.37	804.43	918.47	1055.53	1152.58	1266.62	1380.67	1517.72	1630.81	1777.88		b-79.97
b-97.98				408.22	495.26	592.31	689.36	786.41	900.46	1037.52	1134.57	1248.61	1362.65	1499.71	1612.80	1759.87		b-97.98
b (2+)										568.25	616.78	673.80	730.82	799.35	855.89	929.43		b (2+)
b-79.97 (2+)										528.27	576.79	633.81	690.84	759.37	815.91	889.44		b-79.97 (2+)
b-97.98 (2+)										519.26	567.79	624.81	681.83	750.36	806.90	880.44		b-97.98 (2+)
b (3+)														533.24	570.93	619.95		b (3+)
b-79.97 (3+)														506.58	544.27	593.30		b-79.97 (3+)
b-97.98 (3+)														500.58	538.27	587.29		b-97.98 (3+)
y		1918.87	1790.81	1693.76	1526.76	1439.73	1342.68	1245.62	1148.57	1034.53	897.47	800.42	686.37	572.33	435.27	322.19	175.12	y
y-79.97		1838.90	1710.85	1613.79														y-79.97
y-97.98		1820.89	1692.84	1595.78														y-97.98
y (2+)		959.94	895.91	847.38	763.88	720.37	671.84	623.32	574.79	517.77	449.24	400.71	343.69	286.67	218.14	161.60	88.06	y (2+)
y-79.97 (2+)		919.96	855.93	807.40														y-79.97 (2+)
y-97.98 (2+)		910.95	846.92	798.39														y-97.98 (2+)
y (3+)		640.30	597.61	565.26	509.59	480.58	448.23	415.88	383.53	345.51	299.83	267.48	229.46	191.45				y (3+)
y-79.97 (3+)		613.64	570.95	538.60														y-79.97 (3+)
y-97.98 (3+)		607.64	564.95	532.60														y-97.98 (3+)
	I	Q	P	S	S	P	P	P	N	H	P	N	N	H	L	F	R	
	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

TAPT(+79.97)PPKR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 474.239, Calc. m/z: 474.243
Data File: Pepmix3_HCD.RAW.-1, Scans: 676 - 676

Max Intensity: 1.26e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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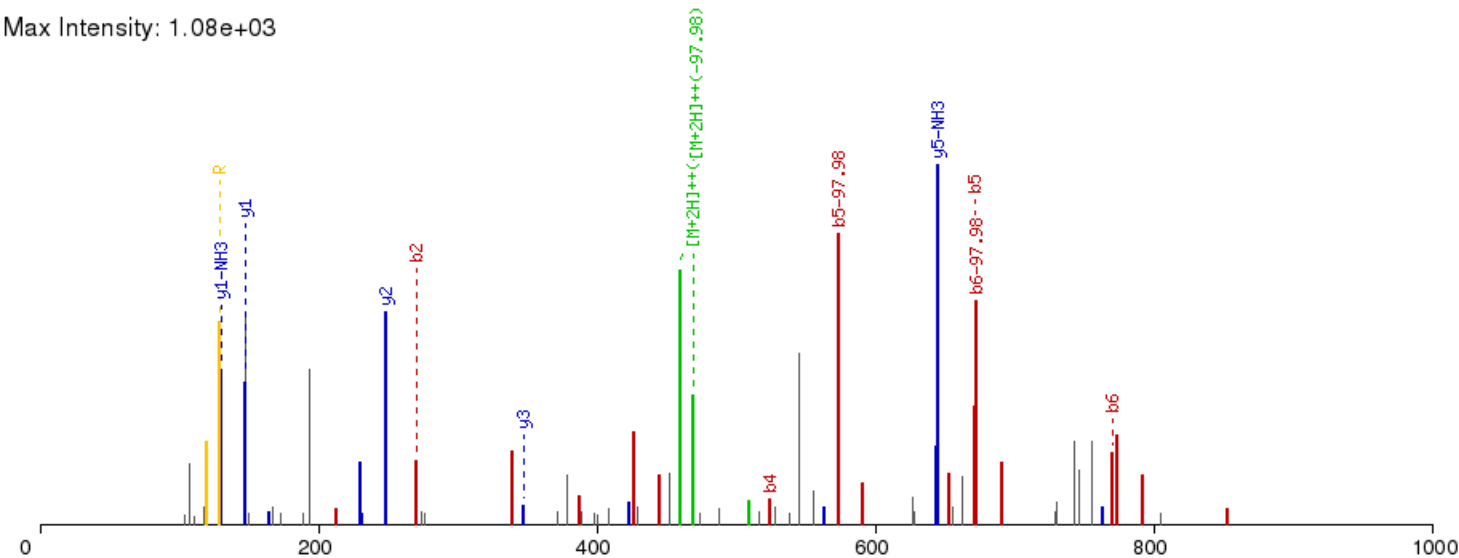
	T	A	P	T	P	P	K	R	
	1	2	3	4	5	6	7	8	
a		145.10							a
b		173.09	270.14	451.16	548.21	645.26	773.36		b
b-79.97				371.19	468.25	565.30	693.39		b-79.97
b-97.98				353.18	450.23	547.29	675.38		b-97.98
b (2+)							387.18		b (2+)
b-79.97 (2+)							347.20		b-79.97 (2+)
b-97.98 (2+)							338.19		b-97.98 (2+)
y		846.42	775.39	678.33	497.32	400.27	303.21	175.12	y
y-79.97		766.46	695.42	598.37					y-79.97
y-97.98		748.45	677.41	580.36					y-97.98
y (2+)		423.72	388.20	339.67	249.16	200.64	152.11	88.06	y (2+)
y-79.97 (2+)		383.73	348.21	299.69					y-79.97 (2+)
y-97.98 (2+)		374.73	339.21	290.68					y-97.98 (2+)
	T	A	P	T	P	P	K	R	
	8	7	6	5	4	3	2	1	

RLSS(+79.97)FVTK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 509.260, Calc. m/z: 509.262
Data File: Pepmix1_HCD.RAW.-1, Scans: 1460 - 1460

Max Intensity: 1.08e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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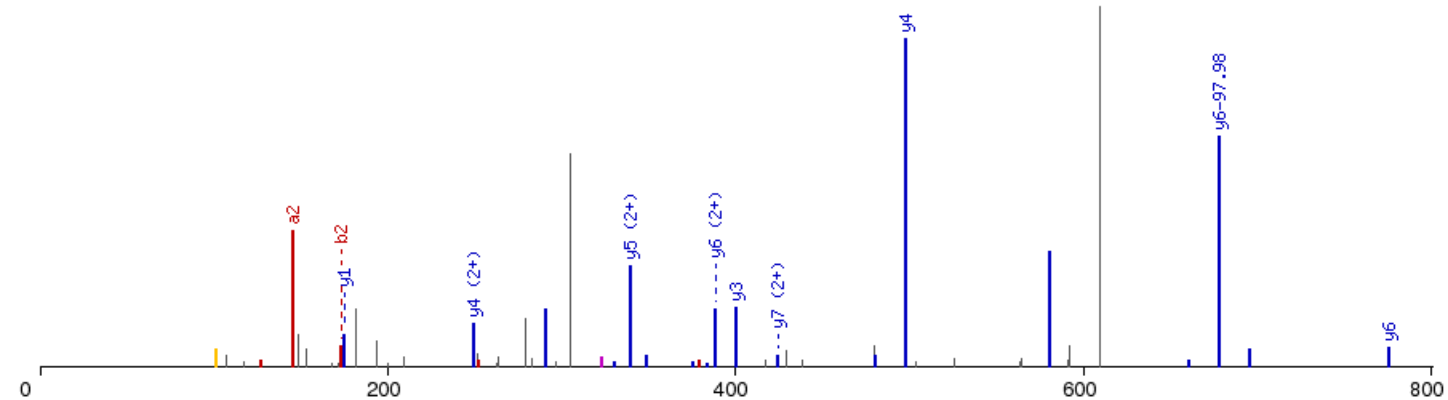
	R	L	S	S	F	V	T	K	
	1	2	3	4	5	6	7	8	
a		242.20							a
a (2+)		121.60							a (2+)
b		270.19	357.22	524.22	671.29	770.36	871.41		b
b-79.97				444.26	591.32	690.39	791.44		b-79.97
b-97.98				426.25	573.31	672.38	773.43		b-97.98
b (2+)		135.60	179.12	262.62	336.15	385.68	436.21		b (2+)
b-79.97 (2+)				222.63	296.17	345.70	396.22		b-79.97 (2+)
b-97.98 (2+)				213.63	287.16	336.70	387.22		b-97.98 (2+)
y		861.41	748.33	661.30	494.30	347.23	248.16	147.11	y
y-79.97		781.45	668.36	581.33					y-79.97
y-97.98		763.43	650.35	563.32					y-97.98
y (2+)		431.21	374.67	331.15	247.65	174.12	124.58	74.06	y (2+)
y-79.97 (2+)		391.23	334.68	291.17					y-79.97 (2+)
y-97.98 (2+)		382.22	325.68	282.16					y-97.98 (2+)
	R	L	S	S	F	V	T	K	
	8	7	6	5	4	3	2	1	

TAPT(+79.97)PPKR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 474.238, Calc. m/z: 474.243
Data File: Pepmix3_HCD.RAW.-1, Scans: 670 - 670

Max Intensity: 5.61e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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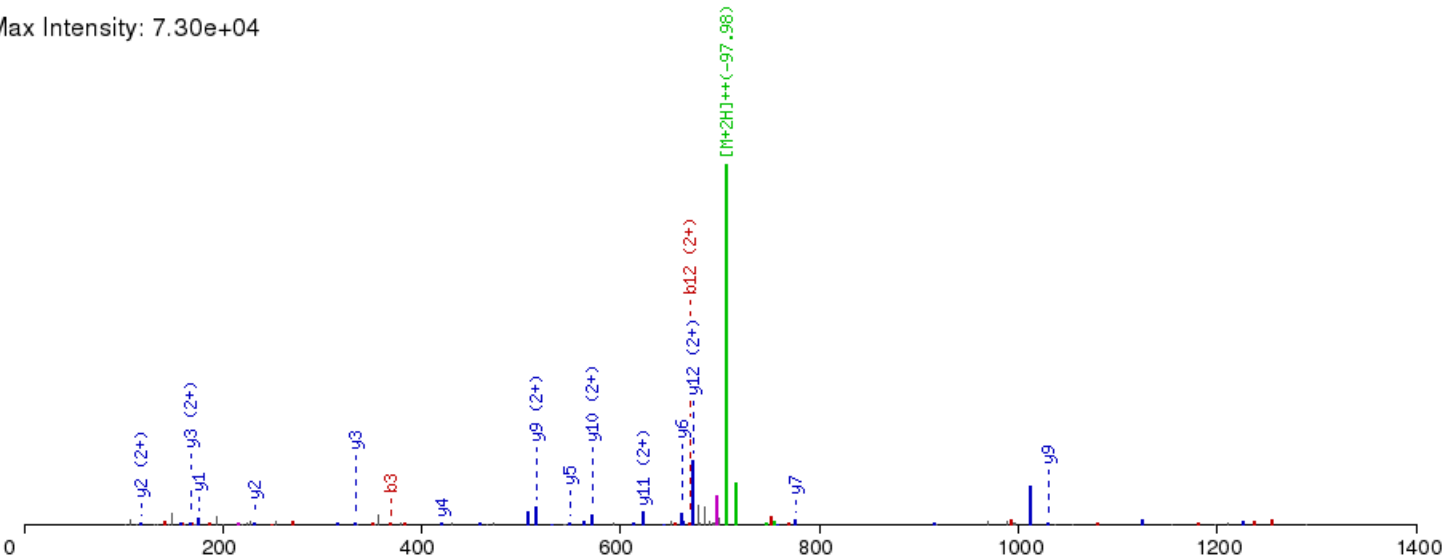
	T	A	P	T	P	P	K	R	
	1	2	3	4	5	6	7	8	
a		145.10							a
b		173.09	270.14	451.16	548.21	645.26	773.36		b
b-79.97				371.19	468.25	565.30	693.39		b-79.97
b-97.98				353.18	450.23	547.29	675.38		b-97.98
b (2+)							387.18		b (2+)
b-79.97 (2+)							347.20		b-79.97 (2+)
b-97.98 (2+)							338.19		b-97.98 (2+)
y		846.42	775.39	678.33	497.32	400.27	303.21	175.12	y
y-79.97		766.46	695.42	598.37					y-79.97
y-97.98		748.45	677.41	580.36					y-97.98
y (2+)		423.72	388.20	339.67	249.16	200.64	152.11	88.06	y (2+)
y-79.97 (2+)		383.73	348.21	299.69					y-79.97 (2+)
y-97.98 (2+)		374.73	339.21	290.68					y-97.98 (2+)
	T	A	P	T	P	P	K	R	
	8	7	6	5	4	3	2	1	

S(+79.97)VTLPRDLQSTGR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 755.375, Calc. m/z: 755.377
Data File: Pepmix4_HCD.RAW.-1, Scans: 1396 - 1396

Max Intensity: 7.30e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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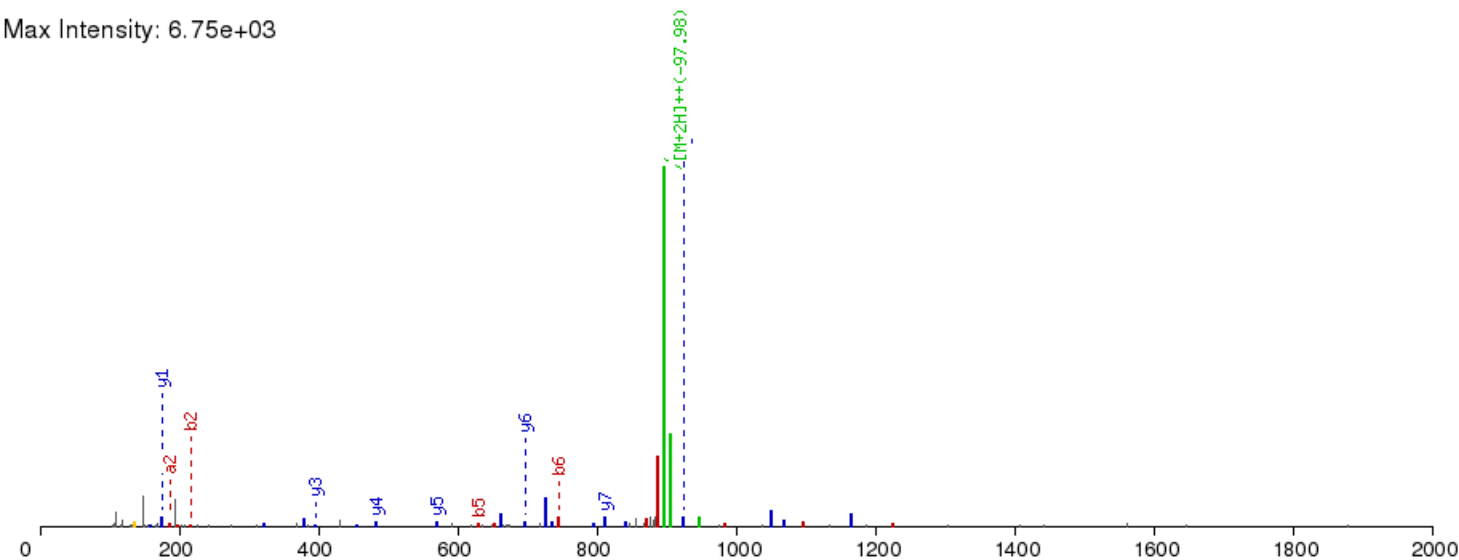
	S	V	T	L	P	R	D	L	Q	S	T	G	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	
a		239.08												a
a-79.97		159.11												a-79.97
a-97.98		141.10												a-97.98
b		267.07	368.12	481.21	578.26	734.36	849.39	962.47	1090.53	1177.56	1278.61	1335.63		b
b-79.97		187.11	288.16	401.24	498.29	654.39	769.42	882.50	1010.56	1097.59	1198.64	1255.66		b-79.97
b-97.98		169.10	270.14	383.23	480.28	636.38	751.41	864.49	992.55	1079.58	1180.63	1237.65		b-97.98
b (2+)						367.68	425.20	481.74	545.77	589.28	639.81	668.32		b (2+)
b-79.97 (2+)						327.70	385.21	441.76	505.79	549.30	599.82	628.34		b-79.97 (2+)
b-97.98 (2+)						318.70	376.21	432.75	496.78	540.30	590.82	619.33		b-97.98 (2+)
y		1342.74	1243.68	1142.63	1029.54	932.49	776.39	661.36	548.28	420.22	333.19	232.14	175.12	y
y (2+)		671.88	622.34	571.82	515.28	466.75	388.70	331.19	274.64	210.61	167.10	116.57	88.06	y (2+)
	S	V	T	L	P	R	D	L	Q	S	T	G	R	
	13	12	11	10	9	8	7	6	5	4	3	2	1	

LTEERDGS(+79.97)LNQSSGYR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 946.415, Calc. m/z: 946.417
Data File: Pepmix3_HCD.RAW.-1, Scans: 995 - 995

Max Intensity: 6.75e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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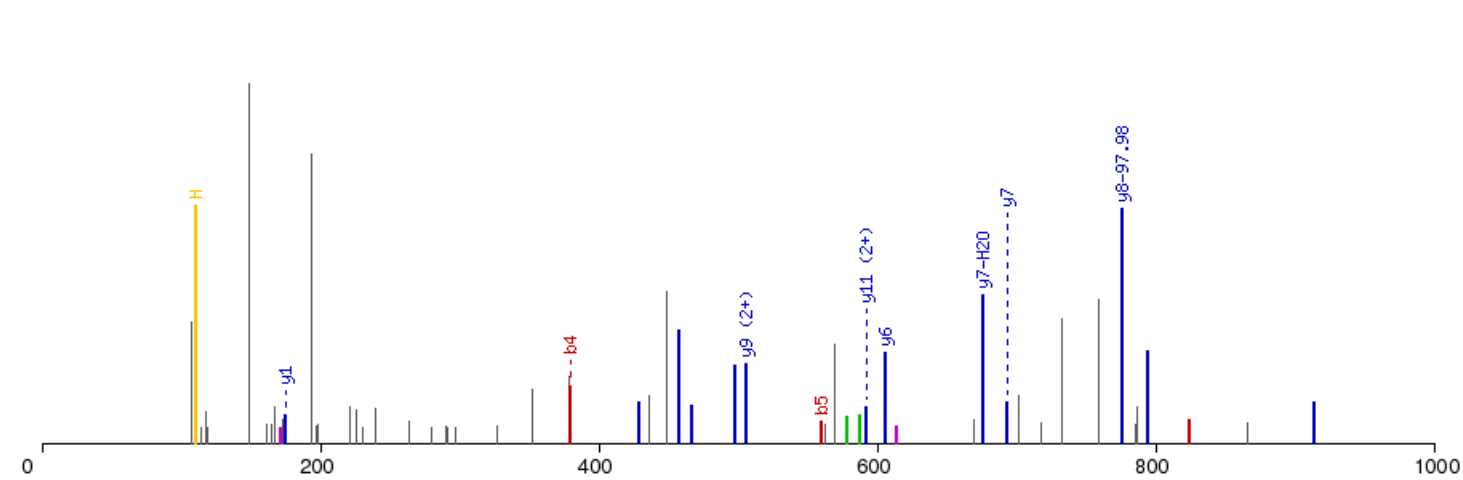
	L	T	E	E	R	D	G	S	L	N	Q	S	S	G	Y	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
a		187.14															a
b		215.14	344.18	473.22	629.33	744.35	801.37	968.37	1081.46	1195.50	1323.56	1410.59	1497.62	1554.64	1717.71		b
b-79.97								888.41	1001.49	1115.53	1243.59	1330.62	1417.66	1474.68	1637.74		b-79.97
b-97.98								870.40	983.48	1097.52	1225.58	1312.61	1399.64	1456.67	1619.73		b-97.98
b (2+)					315.17	372.68	401.19	484.69	541.23	598.25	662.28	705.80	749.31	777.83	859.36		b (2+)
b-79.97 (2+)								444.71	501.25	558.27	622.30	665.82	709.33	737.84	819.37		b-79.97 (2+)
b-97.98 (2+)								435.70	492.24	549.26	613.29	656.81	700.33	728.84	810.37		b-97.98 (2+)
y		1778.73	1677.69	1548.64	1419.60	1263.50	1148.47	1091.45	924.45	811.37	697.33	569.27	482.24	395.20	338.18	175.12	y
y-79.97		1698.77	1597.72	1468.68	1339.63	1183.53	1068.51	1011.49									y-79.97
y-97.98		1680.76	1579.71	1450.67	1321.62	1165.52	1050.50	993.47									y-97.98
y (2+)		889.87	839.35	774.83	710.30	632.25	574.74	546.23	462.73	406.19	349.17	285.14	241.62	198.11	169.59	88.06	y (2+)
y-79.97 (2+)		849.89	799.36	734.84	670.32	592.27	534.76	506.25									y-79.97 (2+)
y-97.98 (2+)		840.88	790.36	725.84	661.32	583.27	525.75	497.24									y-97.98 (2+)
	L	T	E	E	R	D	G	S	L	N	Q	S	S	G	Y	R	
	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

AGIHT(+79.97)SGSLSSR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 626.788, Calc. m/z: 626.792
Data File: Pepmix3_HCD.RAW.-1, Scans: 998 - 998

Max Intensity: 6.52e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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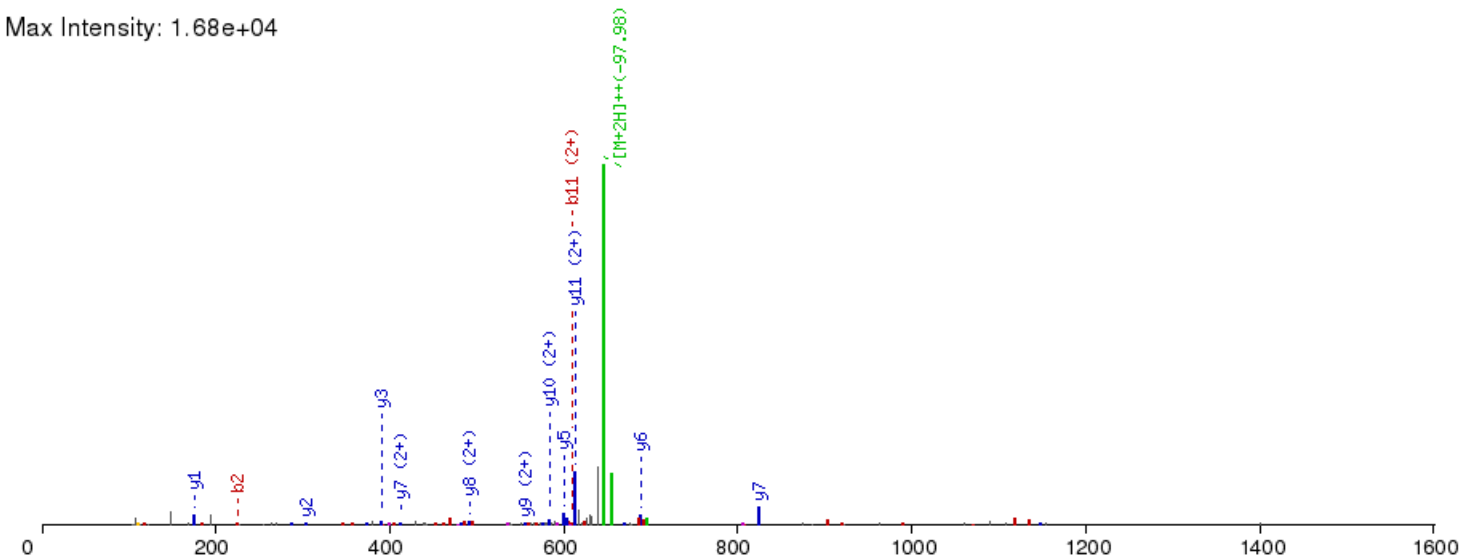
	A	G	I	H	T	S	G	S	L	S	S	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		101.07											a
b		129.07	242.15	379.21	560.22	647.25	704.28	791.31	904.39	991.42	1078.46		b
b-79.97					480.26	567.29	624.31	711.34	824.43	911.46	998.49		b-79.97
b-97.98					462.25	549.28	606.30	693.33	806.42	893.45	980.48		b-97.98
b (2+)				190.11	280.62	324.13	352.64	396.16	452.70	496.22	539.73		b (2+)
b-79.97 (2+)					240.63	284.15	312.66	356.17	412.72	456.23	499.75		b-79.97 (2+)
b-97.98 (2+)					231.63	275.14	303.65	347.17	403.71	447.23	490.74		b-97.98 (2+)
y		1181.53	1124.51	1011.43	874.37	693.35	606.32	549.30	462.27	349.18	262.15	175.12	y
y-79.97		1101.56	1044.54	931.46	794.40								y-79.97
y-97.98		1083.55	1026.53	913.45	776.39								y-97.98
y (2+)		591.27	562.76	506.22	437.69	347.18	303.66	275.15	231.64	175.10	131.58	88.06	y (2+)
y-79.97 (2+)		551.29	522.78	466.23	397.70								y-79.97 (2+)
y-97.98 (2+)		542.28	513.77	457.23	388.70								y-97.98 (2+)
	A	G	I	H	T	S	G	S	L	S	S	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

S(+79.97)GGQRHSPLSQR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 695.323, Calc. m/z: 695.327
Data File: Pepmix4_HCD.RAW.-1, Scans: 661 - 661

Max Intensity: 1.68e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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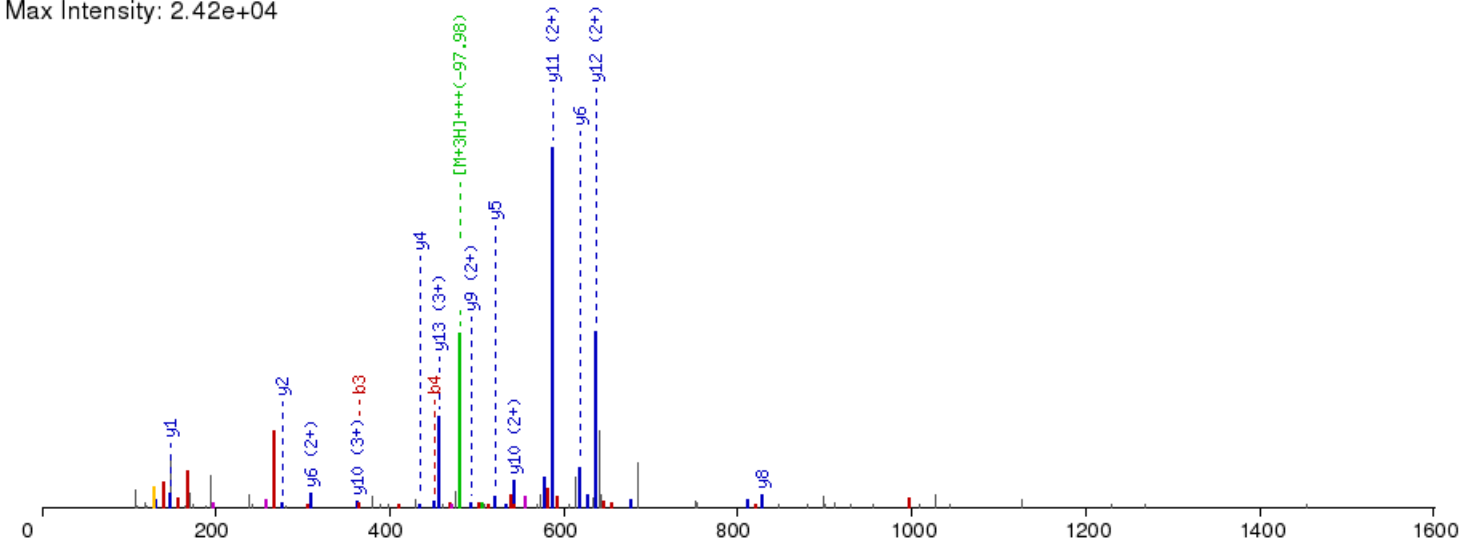
	S	G	G	Q	R	H	S	P	L	S	Q	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		197.03											a
a-79.97		117.07											a-79.97
a-97.98		99.06											a-97.98
b		225.03	282.05	410.11	566.21	703.27	790.30	887.35	1000.44	1087.47	1215.53		b
b-79.97		145.06	202.08	330.14	486.24	623.30	710.33	807.39	920.47	1007.50	1135.56		b-79.97
b-97.98		127.05	184.07	312.13	468.23	605.29	692.32	789.38	902.46	989.49	1117.55		b-97.98
b (2+)					283.61	352.14	395.65	444.18	500.72	544.24	608.27		b (2+)
b-79.97 (2+)					243.62	312.15	355.67	404.20	460.74	504.25	568.28		b-79.97 (2+)
b-97.98 (2+)					234.62	303.15	346.66	395.19	451.73	495.25	559.28		b-97.98 (2+)
y		1222.64	1165.62	1108.60	980.54	824.44	687.38	600.35	503.29	390.21	303.18	175.12	y
y (2+)		611.82	583.31	554.80	490.77	412.72	344.19	300.68	252.15	195.61	152.09	88.06	y (2+)
	S	G	G	Q	R	H	S	P	L	S	Q	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

S(+79.97)PVSTRPLPSASQK

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 512.259, Calc. m/z: 512.261
Data File: Pepmix4_HCD.RAW.-1, Scans: 977 - 977

Max Intensity: 2.42e+04



Sequence Ladder Ions

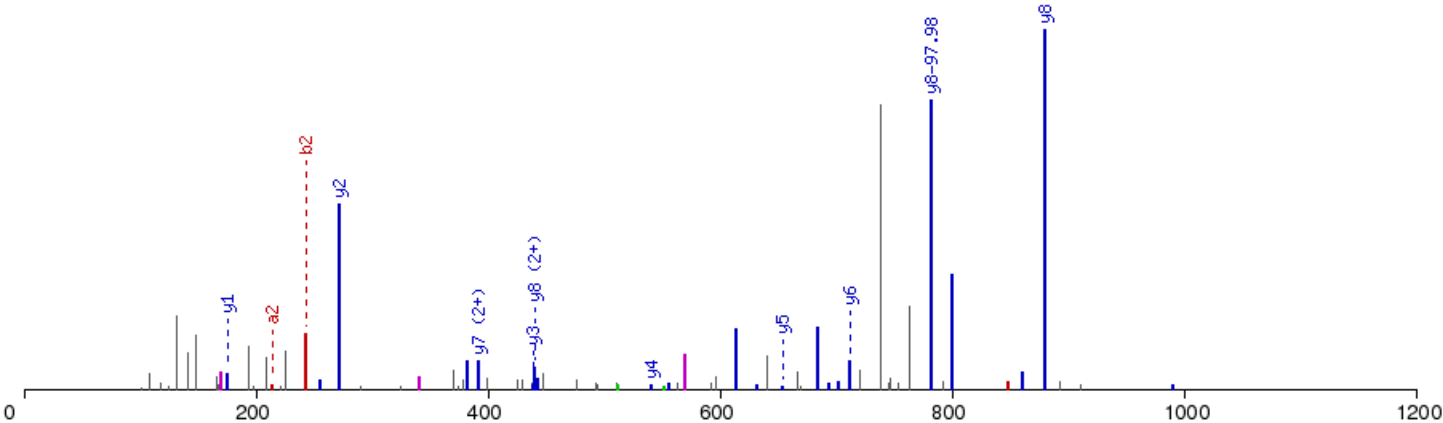
Key:	m/z out of range of spectrum			matched c-term ion			unmatched c-term ion			matched n-term ion			unmatched n-term ion		
	S	P	V	S	T	R	P	L	P	S	A	S	Q	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		237.06													a
a-79.97		157.10													a-79.97
a-97.98		139.09													a-97.98
b		265.06	364.13	451.16	552.21	708.31	805.36	918.44	1015.50	1102.53	1173.57	1260.60	1388.66		b
b-79.97		185.09	284.16	371.19	472.24	628.34	725.39	838.48	935.53	1022.56	1093.60	1180.63	1308.69		b-79.97
b-97.98		167.08	266.15	353.18	454.23	610.33	707.38	820.47	917.52	1004.55	1075.59	1162.62	1290.68		b-97.98
b (2+)						354.66	403.18	459.73	508.25	551.77	587.29	630.80	694.83		b (2+)
b-79.97 (2+)						314.67	363.20	419.74	468.27	511.79	547.30	590.82	654.85		b-79.97 (2+)
b-97.98 (2+)						305.67	354.20	410.74	459.26	502.78	538.30	581.81	645.84		b-97.98 (2+)
y		1367.76	1270.71	1171.64	1084.61	983.56	827.46	730.41	617.33	520.27	433.24	362.20	275.17	147.11	y
y (2+)		684.39	635.86	586.33	542.81	492.29	414.23	365.71	309.17	260.64	217.12	181.61	138.09	74.06	y (2+)
y (3+)		456.59	424.24	391.22	362.21	328.53									y (3+)
	S	P	V	S	T	R	P	L	P	S	A	S	Q	K	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

IQPAGNTS(+79.97)PR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 560.761, Calc. m/z: 560.767
Data File: Pepmix2_HCD.RAW.-1, Scans: 726 - 726

Max Intensity: 4.68e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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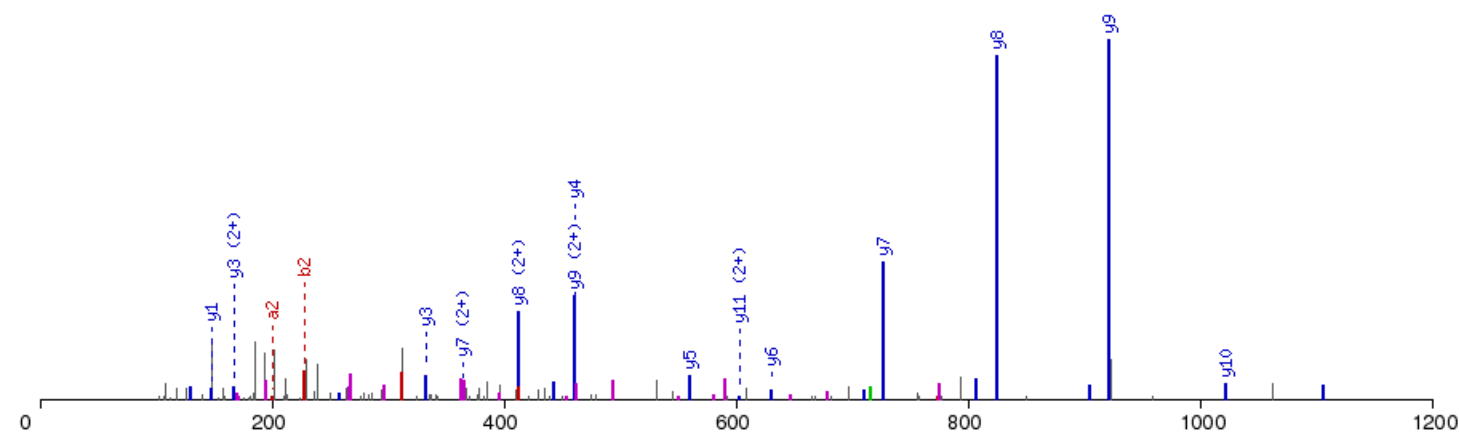
	I	Q	P	A	G	N	T	S	P	R	
	1	2	3	4	5	6	7	8	9	10	
a		214.16									a
b		242.15	339.20	410.24	467.26	581.30	682.35	849.35	946.40		b
b-79.97								769.38	866.44		b-79.97
b-97.98								751.37	848.43		b-97.98
y		1007.43	879.37	782.32	711.28	654.26	540.22	439.17	272.17	175.12	y
y-79.97		927.46	799.41	702.35	631.32	574.29	460.25	359.20			y-79.97
y-97.98		909.45	781.40	684.34	613.31	556.28	442.24	341.19			y-97.98
y (2+)		504.22	440.19	391.66	356.14	327.63	270.61	220.09	136.59	88.06	y (2+)
y-79.97 (2+)		464.24	400.21	351.68	316.16	287.65	230.63	180.11			y-79.97 (2+)
y-97.98 (2+)		455.23	391.20	342.67	307.16	278.65	221.62	171.10			y-97.98 (2+)
	I	Q	P	A	G	N	T	S	P	R	
	10	9	8	7	6	5	4	3	2	1	

VQT(+79.97)TPPPAVQGQK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 716.350, Calc. m/z: 715.857
Data File: Pepmix2_HCD.RAW.-1, Scans: 954 - 954

Max Intensity: 7.24e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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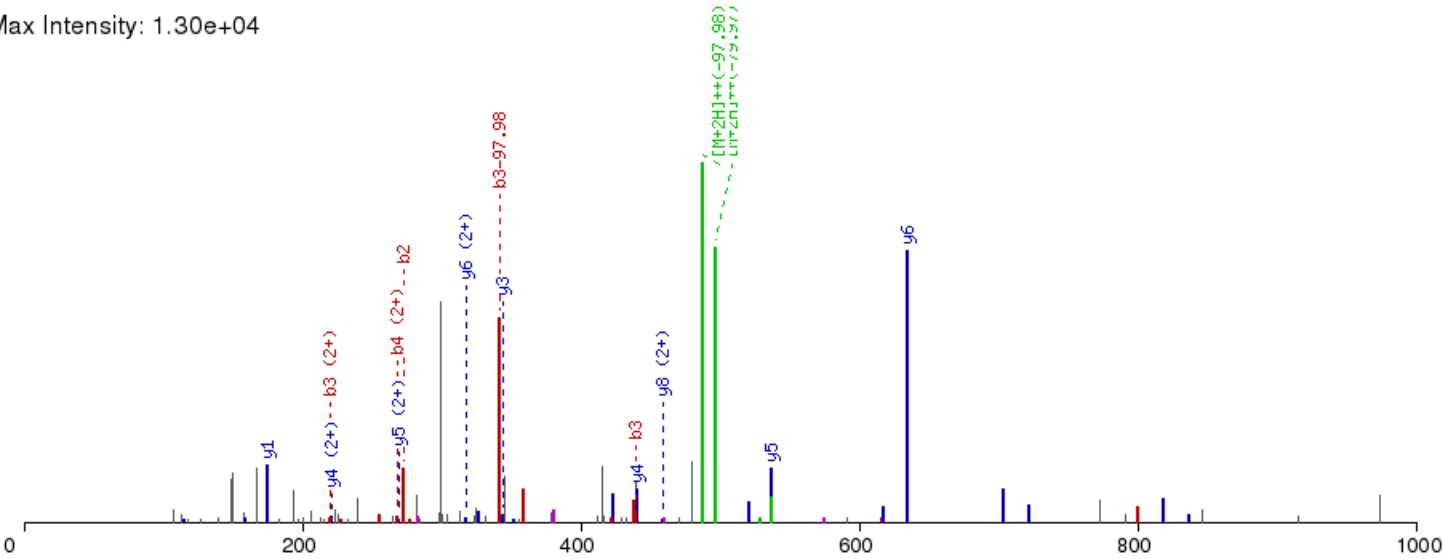
	V	Q	T	T	P	P	P	A	V	Q	G	Q	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	
a		200.14												a
b		228.13	409.15	510.20	607.25	704.30	801.35	872.39	971.46	1099.52	1156.54	1284.60		b
b-79.97			329.18	430.23	527.28	624.34	721.39	792.43	891.49	1019.55	1076.57	1204.63		b-79.97
b-97.98			311.17	412.22	509.27	606.32	703.38	774.41	873.48	1001.54	1058.56	1186.62		b-97.98
y		1331.64	1203.58	1022.56	921.52	824.46	727.41	630.36	559.32	460.25	332.19	275.17	147.11	y
y-79.97		1251.67	1123.61											y-79.97
y-97.98		1233.66	1105.60											y-97.98
y (2+)		666.32	602.29	511.79	461.26	412.73	364.21	315.68	280.16	230.63	166.60	138.09	74.06	y (2+)
y-79.97 (2+)		626.34	562.31											y-79.97 (2+)
y-97.98 (2+)		617.33	553.30											y-97.98 (2+)
	V	Q	T	T	P	P	P	A	V	Q	G	Q	K	
	13	12	11	10	9	8	7	6	5	4	3	2	1	

RDS(+79.97)PPPPAR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 536.751, Calc. m/z: 536.752
Data File: Pepmix2_HCD.RAW.-1, Scans: 614 - 614

Max Intensity: 1.30e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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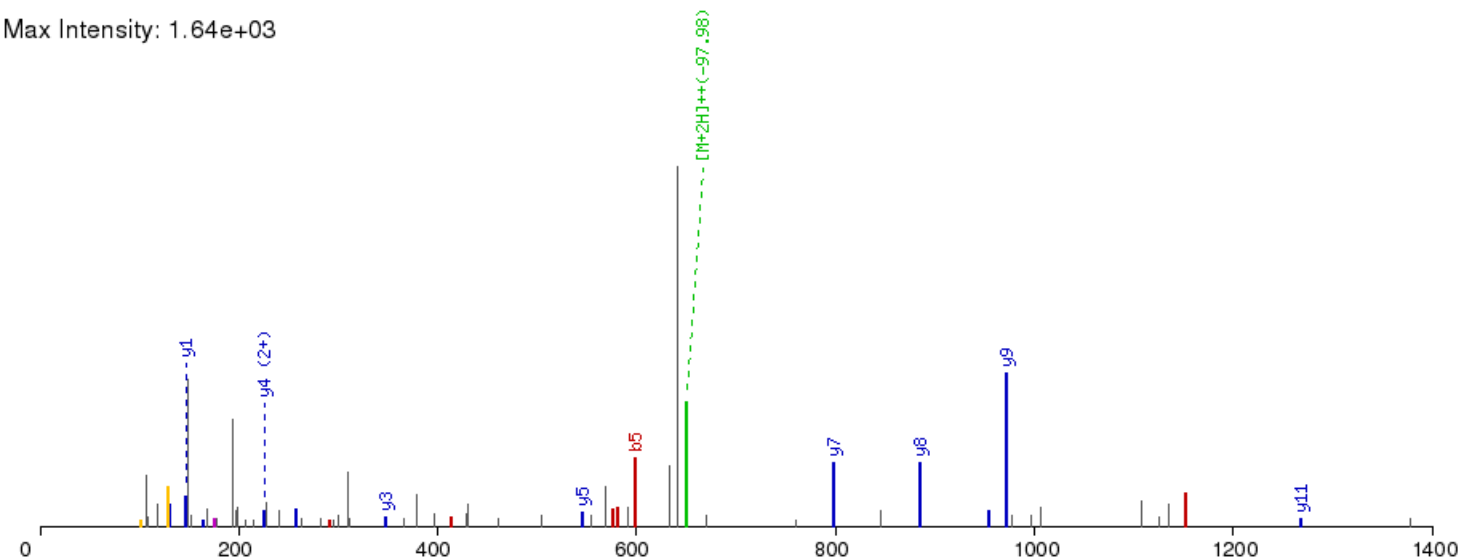
	R	D	S	P	P	P	P	A	R	
	1	2	3	4	5	6	7	8	9	
a		244.14								a
a (2+)		122.57								a (2+)
b		272.14	439.13	536.19	633.24	730.29	827.34	898.38		b
b-79.97			359.17	456.22	553.27	650.33	747.38	818.42		b-79.97
b-97.98			341.16	438.21	535.26	632.32	729.37	800.40		b-97.98
b (2+)		136.57	220.07	268.60	317.12	365.65	414.18	449.69		b (2+)
b-79.97 (2+)			180.09	228.61	277.14	325.67	374.19	409.71		b-79.97 (2+)
b-97.98 (2+)			171.08	219.61	268.13	316.66	365.19	400.71		b-97.98 (2+)
y		916.39	801.37	634.37	537.31	440.26	343.21	246.16	175.12	y
y-79.97		836.43	721.40							y-79.97
y-97.98		818.42	703.39							y-97.98
y (2+)		458.70	401.19	317.69	269.16	220.63	172.11	123.58	88.06	y (2+)
y-79.97 (2+)		418.72	361.20							y-79.97 (2+)
y-97.98 (2+)		409.71	352.20							y-97.98 (2+)
	R	D	S	P	P	P	P	A	R	
	9	8	7	6	5	4	3	2	1	

ES(+79.97)KSSPRPTAEK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 698.828, Calc. m/z: 698.827
Data File: Pepmix2_HCD.RAW.-1, Scans: 504 - 504

Max Intensity: 1.64e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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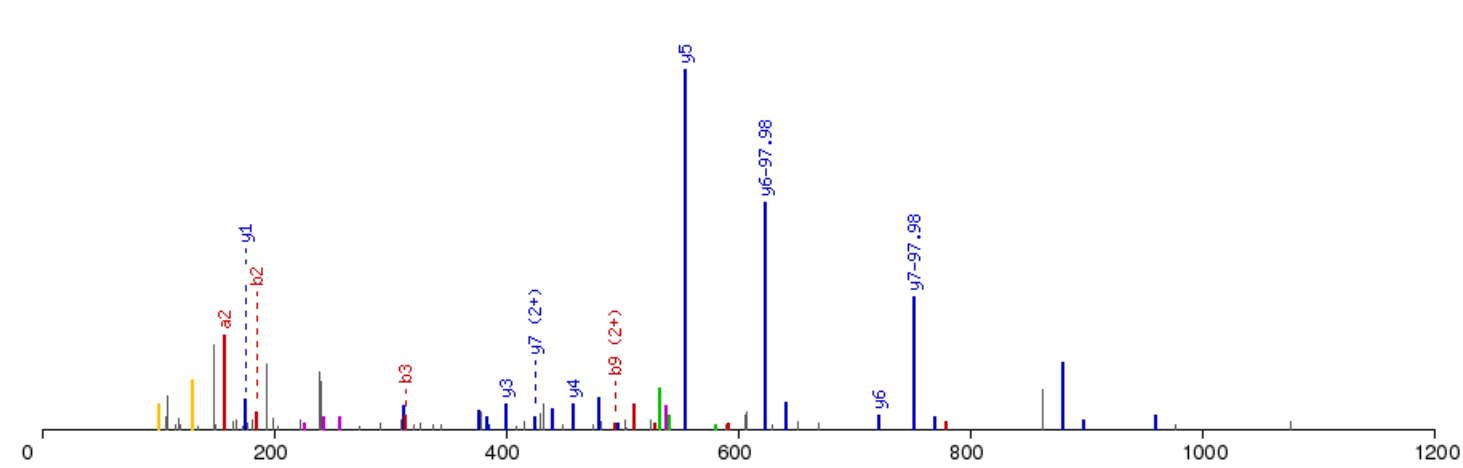
	E	S	K	S	S	P	R	P	T	A	E	K	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		269.05											a
a-79.97		189.09											a-79.97
a-97.98		171.08											a-97.98
b		297.05	425.14	512.18	599.21	696.26	852.36	949.41	1050.46	1121.50	1250.54		b
b-79.97		217.08	345.18	432.21	519.24	616.29	772.39	869.45	970.50	1041.53	1170.57		b-79.97
b-97.98		199.07	327.17	414.20	501.23	598.28	754.38	851.44	952.48	1023.52	1152.56		b-97.98
b (2+)			213.08	256.59	300.11	348.63	426.68	475.21	525.73	561.25	625.77		b (2+)
b-79.97 (2+)			173.09	216.61	260.12	308.65	386.70	435.23	485.75	521.27	585.79		b-79.97 (2+)
b-97.98 (2+)			164.09	207.60	251.12	299.65	377.70	426.22	476.75	512.26	576.79		b-97.98 (2+)
y		1267.60	1100.61	972.51	885.48	798.45	701.39	545.29	448.24	347.19	276.16	147.11	y
y-79.97		1187.64											y-79.97
y-97.98		1169.63											y-97.98
y (2+)		634.31	550.81	486.76	443.24	399.73	351.20	273.15	224.62	174.10	138.58	74.06	y (2+)
y-79.97 (2+)		594.32											y-79.97 (2+)
y-97.98 (2+)		585.32											y-97.98 (2+)
	E	S	K	S	S	P	R	P	T	A	E	K	
	12	11	10	9	8	7	6	5	4	3	2	1	

ALQKS(+79.97)PGPQR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 581.293, Calc. m/z: 581.297
Data File: Pepmix2_HCD.RAW.-1, Scans: 642 - 642

Max Intensity: 2.64e+03



Sequence Ladder Ions

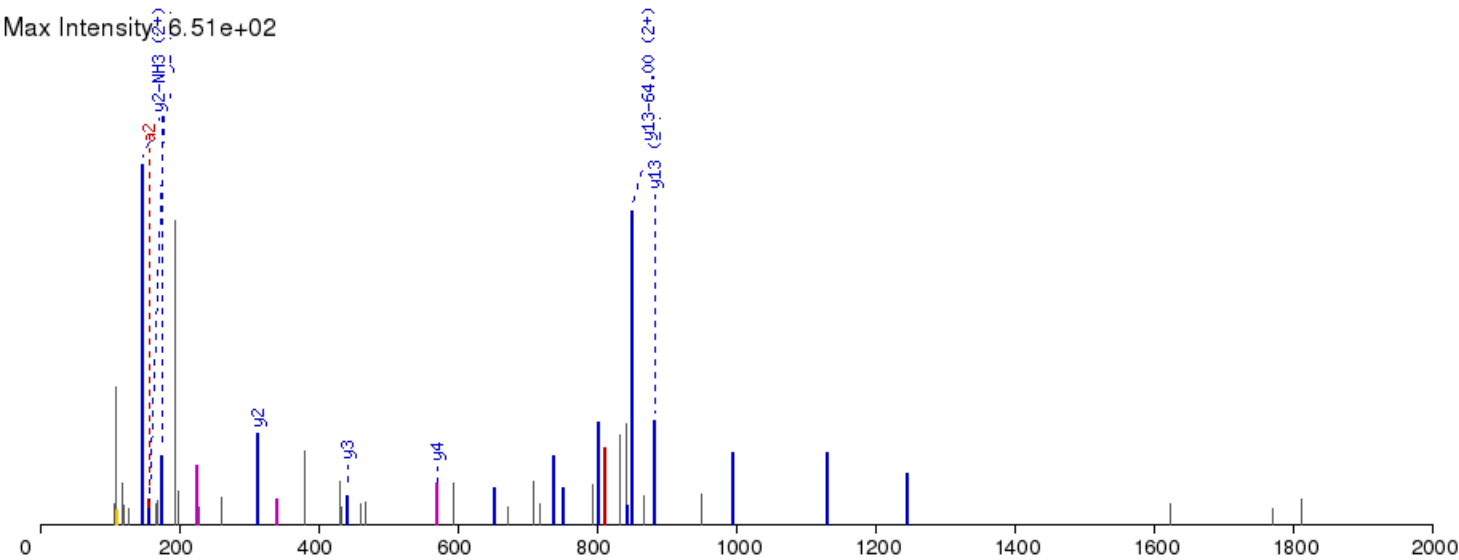
Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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	A	L	Q	K	S	P	G	P	Q	R	
	1	2	3	4	5	6	7	8	9	10	
a		157.13									a
b		185.13	313.19	441.28	608.28	705.33	762.35	859.41	987.47		b
b-79.97					528.31	625.37	682.39	779.44	907.50		b-79.97
b-97.98					510.30	607.36	664.38	761.43	889.49		b-97.98
b (2+)				221.14	304.64	353.17	381.68	430.21	494.24		b (2+)
b-79.97 (2+)					264.66	313.19	341.70	390.22	454.25		b-79.97 (2+)
b-97.98 (2+)					255.66	304.18	332.69	381.22	445.25		b-97.98 (2+)
y		1090.54	977.46	849.40	721.30	554.30	457.25	400.23	303.18	175.12	y
y-79.97		1010.57	897.49	769.43	641.34						y-79.97
y-97.98		992.56	879.48	751.42	623.33						y-97.98
y (2+)		545.77	489.23	425.20	361.16	277.66	229.13	200.62	152.09	88.06	y (2+)
y-79.97 (2+)		505.79	449.25	385.22	321.17						y-79.97 (2+)
y-97.98 (2+)		496.79	440.24	376.21	312.17						y-97.98 (2+)
	A	L	Q	K	S	P	G	P	Q	R	
	10	9	8	7	6	5	4	3	2	1	

ALPQNDDHY(+79.97)VM(+15.99)QEHR

Identified in MSS769 1 x Phospho (Y) 1 x Oxidation (M)

Charge: 2, Exp. m/z: 974.907, Calc. m/z: 974.907
Data File: Pepmix5_HCD.RAW.-1, Scans: 918 - 918



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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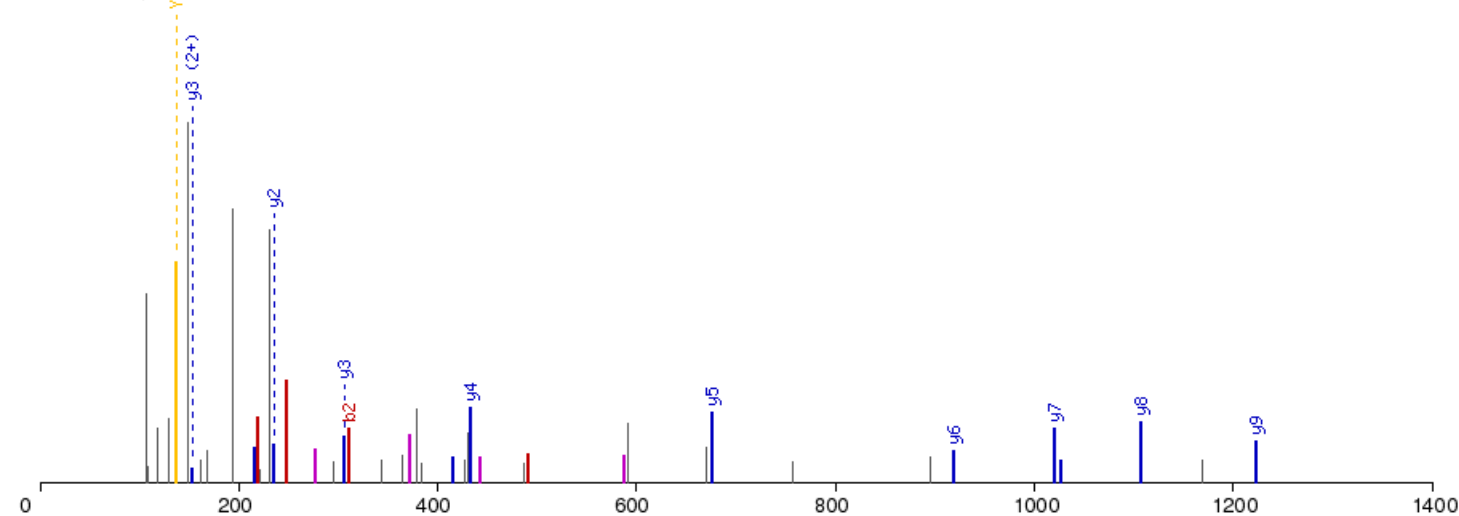
	A	L	P	Q	N	D	D	H	Y	V	M	Q	E	H	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
a		157.13														a
b		185.13	282.18	410.24	524.28	639.31	754.34	891.40	1134.43	1233.49	1380.53	1508.59	1637.63	1774.69		b
b-15.99											1364.53	1492.59	1621.64	1758.69		b-15.99
b-64.00											1316.53	1444.59	1573.63	1710.69		b-64.00
b-79.97									1054.46	1153.53	1300.56	1428.62	1557.66	1694.72		b-79.97
b (2+)								446.20	567.72	617.25	690.77	754.80	819.32	887.85		b (2+)
b-15.99 (2+)											682.77	746.80	811.32	879.85		b-15.99 (2+)
b-64.00 (2+)											658.77	722.80	787.32	855.85		b-64.00 (2+)
b-79.97 (2+)									527.73	577.27	650.78	714.81	779.34	847.87		b-79.97 (2+)
y		1877.76	1764.68	1667.63	1539.57	1425.53	1310.50	1195.47	1058.41	815.38	716.31	569.28	441.22	312.18	175.12	y
y-15.99		1861.77	1748.68	1651.63	1523.57	1409.53	1294.50	1179.48	1042.42	799.39	700.32					y-15.99
y-64.00		1813.77	1700.68	1603.63	1475.57	1361.53	1246.50	1131.47	994.41	751.38	652.32					y-64.00
y-79.97		1797.80	1684.71	1587.66	1459.60	1345.56	1230.53	1115.51	978.45							y-79.97
y (2+)		939.39	882.84	834.32	770.29	713.27	655.75	598.24	529.71	408.20	358.66	285.14	221.11	156.59	88.06	y (2+)
y-15.99 (2+)		931.39	874.85	826.32	762.29	705.27	647.76	590.24	521.71	400.20	350.66					y-15.99 (2+)
y-64.00 (2+)		907.39	850.84	802.32	738.29	681.27	623.75	566.24	497.71	376.20	326.66					y-64.00 (2+)
y-79.97 (2+)		899.40	842.86	794.33	730.30	673.28	615.77	558.26	489.73							y-79.97 (2+)
	A	L	P	Q	N	D	D	H	Y	V	M	Q	E	H	R	
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

YM(+15.99)EDSTY(+79.97)Y(+79.97)KASK

Identified in MSS769 2 x Phospho (Y) 1 x Oxidation (M)

Charge: 2, Exp. m/z: 831.297, Calc. m/z: 831.297
Data File: Pepmix1_HCD.RAW.-1, Scans: 704 - 704

Max Intensity: 5.86e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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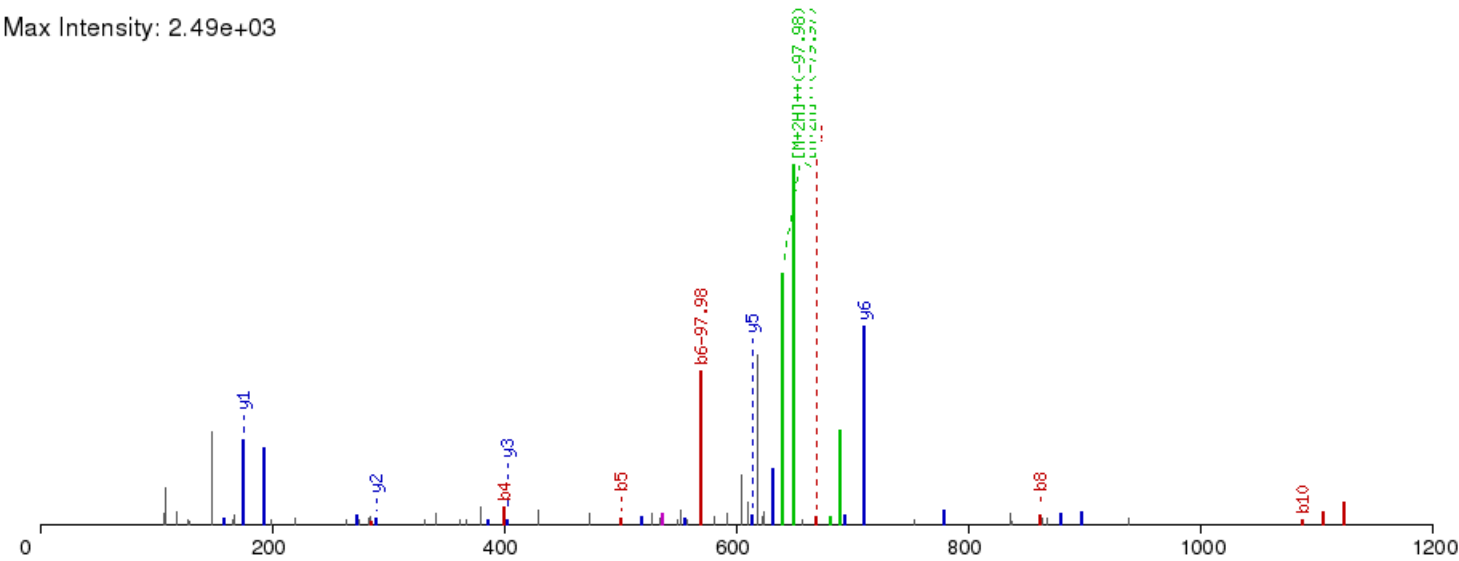
	Y	M	E	D	S	T	Y	Y	K	A	S	K	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		283.11											a
a-15.99		267.12											a-15.99
a-64.00		219.11											a-64.00
b		311.11	440.15	555.18	642.21	743.26	986.28	1229.31	1357.41	1428.45	1515.48		b
b-15.99		295.11	424.15	539.18	626.21	727.26	970.29	1213.32	1341.41	1412.45	1499.48		b-15.99
b-64.00		247.11	376.15	491.18	578.21	679.26	922.29	1165.32	1293.41	1364.45	1451.48		b-64.00
b-79.97							906.32	1149.35	1277.44	1348.48	1435.51		b-79.97
b (2+)									679.21	714.73	758.24		b (2+)
b-15.99 (2+)									671.21	706.73	750.25		b-15.99 (2+)
b-64.00 (2+)									647.21	682.73	726.24		b-64.00 (2+)
b-79.97 (2+)									639.23	674.74	718.26		b-79.97 (2+)
y		1498.52	1351.49	1222.44	1107.42	1020.38	919.34	676.31	433.28	305.18	234.14	147.11	y
y-15.99		1482.53											y-15.99
y-64.00		1434.52											y-64.00
y-79.97		1418.55	1271.52	1142.48	1027.45	940.42	839.37	596.34					y-79.97
y (2+)		749.76	676.25	611.73	554.21	510.70	460.17	338.66	217.14	153.09	117.58	74.06	y (2+)
y-15.99 (2+)		741.77											y-15.99 (2+)
y-64.00 (2+)		717.76											y-64.00 (2+)
y-79.97 (2+)		709.78	636.26	571.74	514.23	470.71	420.19	298.67					y-79.97 (2+)
	Y	M	E	D	S	T	Y	Y	K	A	S	K	
	12	11	10	9	8	7	6	5	4	3	2	1	

VSGRTS(+79.97)PPLDDR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 689.349, Calc. m/z: 689.352
Data File: Pepmix5_HCD.RAW.-1, Scans: 1150 - 1150

Max Intensity: 2.49e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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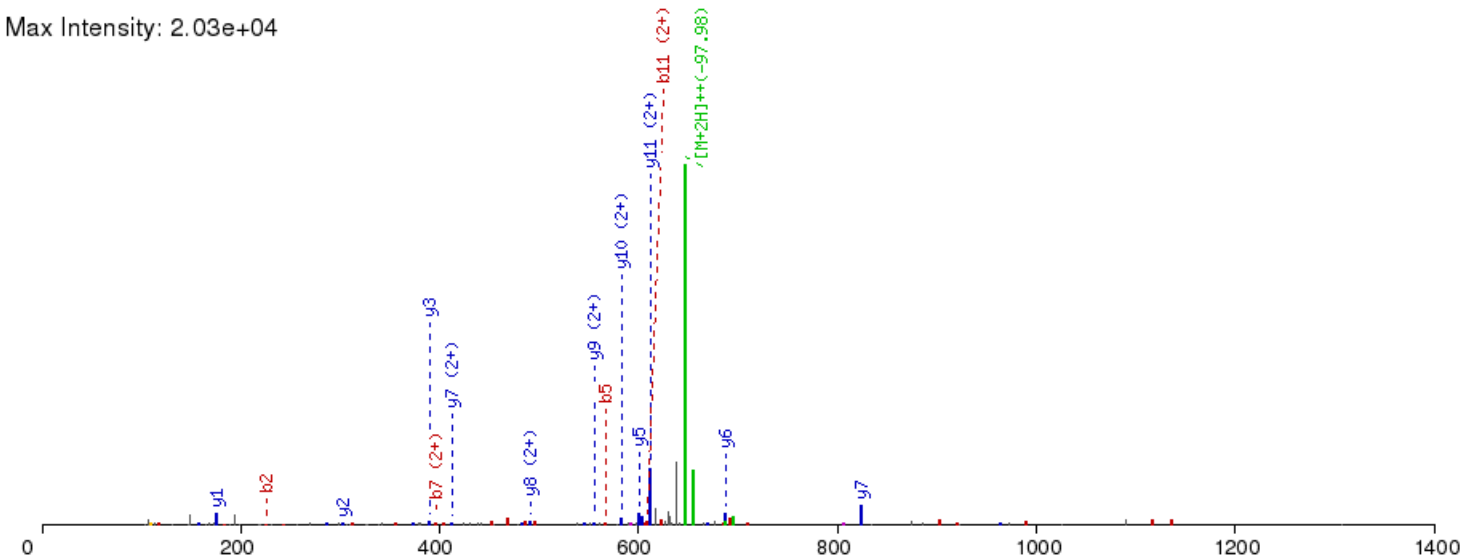
	V	S	G	R	T	S	P	P	L	L	D	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		159.11											a
b		187.11	244.13	400.23	501.28	668.28	765.33	862.38	975.47	1088.55	1203.58		b
b-79.97						588.31	685.36	782.42	895.50	1008.58	1123.61		b-79.97
b-97.98						570.30	667.35	764.40	877.49	990.57	1105.60		b-97.98
b (2+)				200.62	251.14	334.64	383.17	431.69	488.24	544.78	602.29		b (2+)
b-79.97 (2+)						294.66	343.19	391.71	448.25	504.80	562.31		b-79.97 (2+)
b-97.98 (2+)						285.65	334.18	382.71	439.25	495.79	553.30		b-97.98 (2+)
y		1278.62	1191.59	1134.57	978.47	877.42	710.42	613.37	516.31	403.23	290.15	175.12	y
y-79.97		1198.65	1111.62	1054.60	898.50	797.45							y-79.97
y-97.98		1180.64	1093.61	1036.59	880.49	779.44							y-97.98
y (2+)		639.81	596.30	567.79	489.74	439.21	355.71	307.19	258.66	202.12	145.58	88.06	y (2+)
y-79.97 (2+)		599.83	556.31	527.80	449.75	399.23							y-79.97 (2+)
y-97.98 (2+)		590.83	547.31	518.80	440.75	390.22							y-97.98 (2+)
	V	S	G	R	T	S	P	P	L	L	D	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

S(+79.97)GGQRHSPLSQR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 695.323, Calc. m/z: 695.327
Data File: Pepmix4_HCD.RAW.-1, Scans: 653 - 653

Max Intensity: 2.03e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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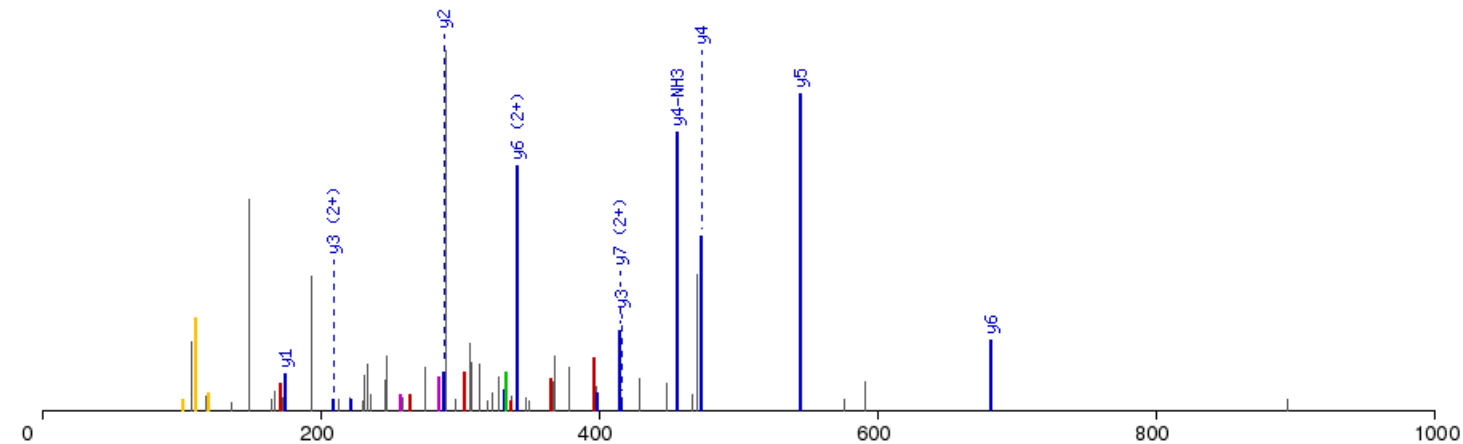
	S	G	G	Q	R	H	S	P	L	S	Q	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		197.03											a
a-79.97		117.07											a-79.97
a-97.98		99.06											a-97.98
b		225.03	282.05	410.11	566.21	703.27	790.30	887.35	1000.44	1087.47	1215.53		b
b-79.97		145.06	202.08	330.14	486.24	623.30	710.33	807.39	920.47	1007.50	1135.56		b-79.97
b-97.98		127.05	184.07	312.13	468.23	605.29	692.32	789.38	902.46	989.49	1117.55		b-97.98
b (2+)					283.61	352.14	395.65	444.18	500.72	544.24	608.27		b (2+)
b-79.97 (2+)					243.62	312.15	355.67	404.20	460.74	504.25	568.28		b-79.97 (2+)
b-97.98 (2+)					234.62	303.15	346.66	395.19	451.73	495.25	559.28		b-97.98 (2+)
y		1222.64	1165.62	1108.60	980.54	824.44	687.38	600.35	503.29	390.21	303.18	175.12	y
y (2+)		611.82	583.31	554.80	490.77	412.72	344.19	300.68	252.15	195.61	152.09	88.06	y (2+)
	S	G	G	Q	R	H	S	P	L	S	Q	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

S(+79.97)TFHAGQLR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 366.170, Calc. m/z: 366.171
Data File: Pepmix2_HCD.RAW.-1, Scans: 1118 - 1118

Max Intensity: 1.16e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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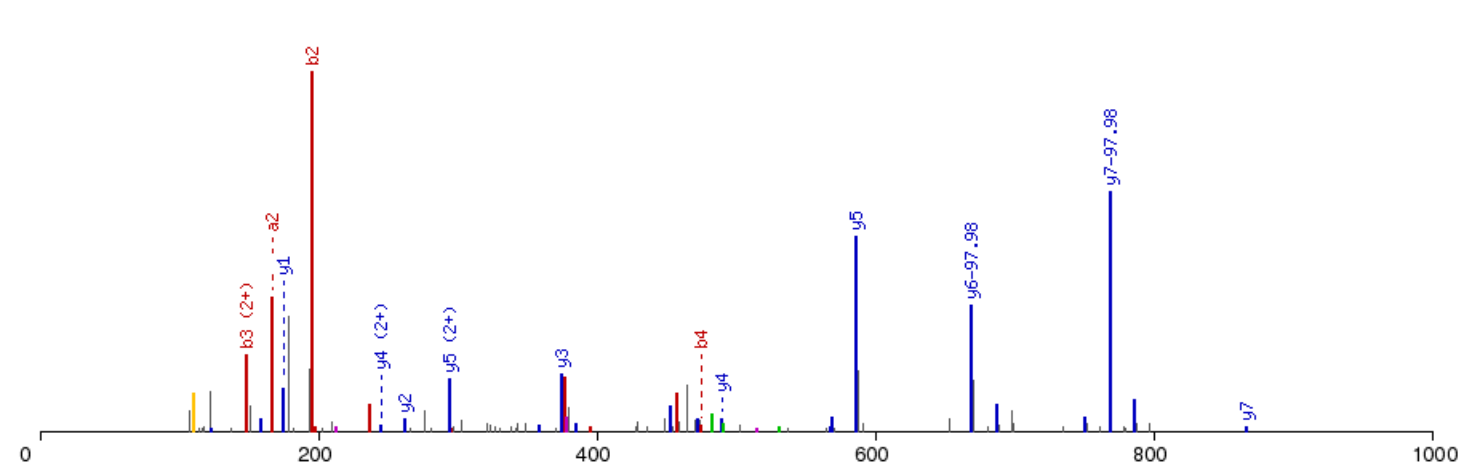
	S	T	F	H	A	G	Q	L	R	
	1	2	3	4	5	6	7	8	9	
a		241.06								a
a-79.97		161.09								a-79.97
a-97.98		143.08								a-97.98
b		269.05	416.12	553.18	624.22	681.24	809.30	922.38		b
b-79.97		189.09	336.16	473.21	544.25	601.27	729.33	842.42		b-79.97
b-97.98		171.08	318.14	455.20	526.24	583.26	711.32	824.40		b-97.98
b (2+)				277.09	312.61	341.12	405.15	461.69		b (2+)
b-79.97 (2+)				237.11	272.63	301.14	365.17	421.71		b-79.97 (2+)
b-97.98 (2+)				228.11	263.62	292.13	356.16	412.71		b-97.98 (2+)
y		929.50	828.45	681.38	544.32	473.28	416.26	288.20	175.12	y
y (2+)		465.25	414.73	341.19	272.66	237.15	208.63	144.61	88.06	y (2+)
y (3+)		310.50	276.82	227.80						y (3+)
	S	T	F	H	A	G	Q	L	R	
	9	8	7	6	5	4	3	2	1	

GHVT(+79.97)PNLSR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 530.745, Calc. m/z: 530.752
Data File: Pepmix2_HCD.RAW.-1, Scans: 973 - 973

Max Intensity: 3.45e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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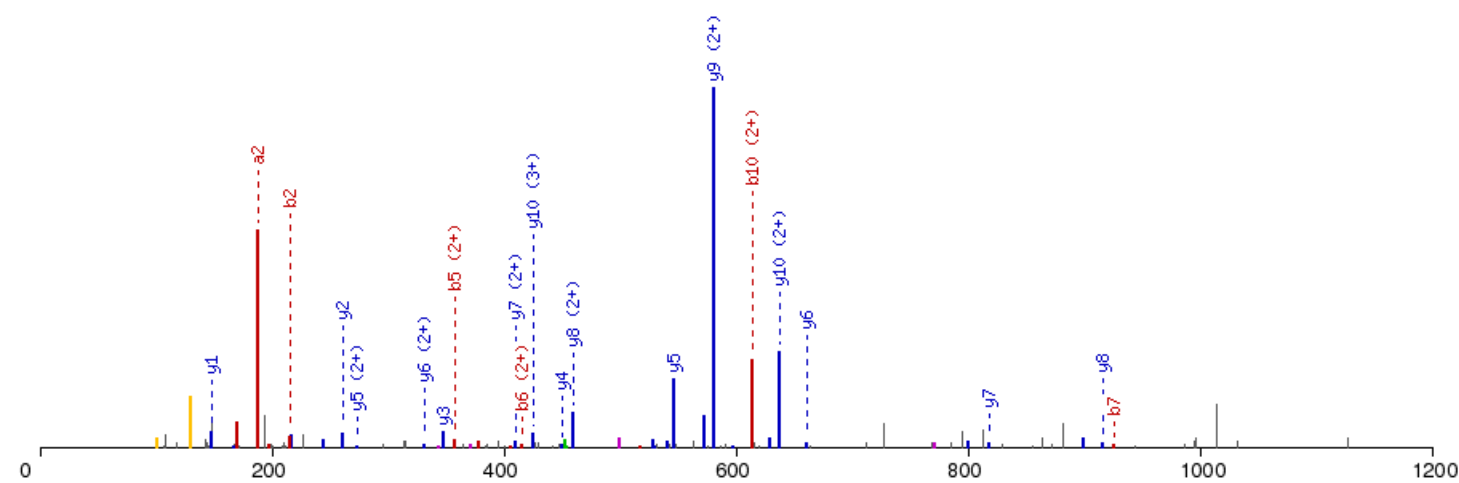
	G	H	V	T	P	N	L	S	R	
	1	2	3	4	5	6	7	8	9	
a		167.09								a
a (2+)		84.05								a (2+)
b		195.09	294.16	475.17	572.22	686.27	799.35	886.38		b
b-79.97				395.20	492.26	606.30	719.38	806.42		b-79.97
b-97.98				377.19	474.25	588.29	701.37	788.40		b-97.98
b (2+)		98.05	147.58	238.09	286.62	343.64	400.18	443.69		b (2+)
b-79.97 (2+)				198.11	246.63	303.65	360.20	403.71		b-79.97 (2+)
b-97.98 (2+)				189.10	237.63	294.65	351.19	394.71		b-97.98 (2+)
y		1003.47	866.41	767.34	586.33	489.28	375.24	262.15	175.12	y
y-79.97		923.51	786.45	687.38						y-79.97
y-97.98		905.50	768.44	669.37						y-97.98
y (2+)		502.24	433.71	384.18	293.67	245.14	188.12	131.58	88.06	y (2+)
y-79.97 (2+)		462.26	393.73	344.19						y-79.97 (2+)
y-97.98 (2+)		453.25	384.72	335.19						y-97.98 (2+)
	G	H	V	T	P	N	L	S	R	
	9	8	7	6	5	4	3	2	1	

TIY(+79.97)VRDPTSNK

Identified in MSS769 1 x Phospho (Y)

Charge: 3, Exp. m/z: 458.553, Calc. m/z: 458.554
Data File: Pepmix1_HCD.RAW.-1, Scans: 1059 - 1059

Max Intensity: 9.68e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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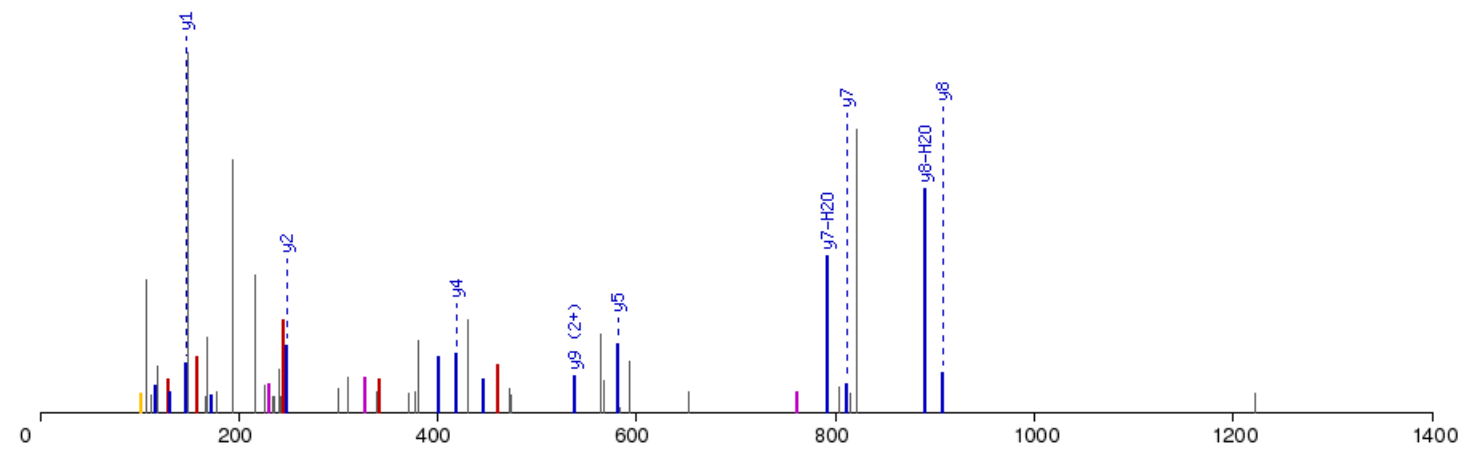
	T	I	Y	V	R	D	P	T	S	N	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		187.14										a
b		215.14	458.17	557.24	713.34	828.37	925.42	1026.47	1113.50	1227.54		b
b-79.97			378.20	477.27	633.37	748.40	845.45	946.50	1033.53	1147.57		b-79.97
b (2+)					357.17	414.69	463.21	513.74	557.25	614.27		b (2+)
b-79.97 (2+)					317.19	374.70	423.23	473.75	517.27	574.29		b-79.97 (2+)
y		1272.60	1159.51	916.48	817.42	661.32	546.29	449.24	348.19	261.16	147.11	y
y-79.97		1192.63	1079.55									y-79.97
y (2+)		636.80	580.26	458.75	409.21	331.16	273.65	225.12	174.60	131.08	74.06	y (2+)
y-79.97 (2+)		596.82	540.28									y-79.97 (2+)
y (3+)		424.87	387.18	306.17	273.14							y (3+)
y-79.97 (3+)		398.22	360.52									y-79.97 (3+)
	T	I	Y	V	R	D	P	T	S	N	K	
	11	10	9	8	7	6	5	4	3	2	1	

SSS(+79.97)PTQYGLTK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 624.780, Calc. m/z: 624.782
Data File: Pepmix5_HCD.RAW.-1, Scans: 992 - 992

Max Intensity: 6.20e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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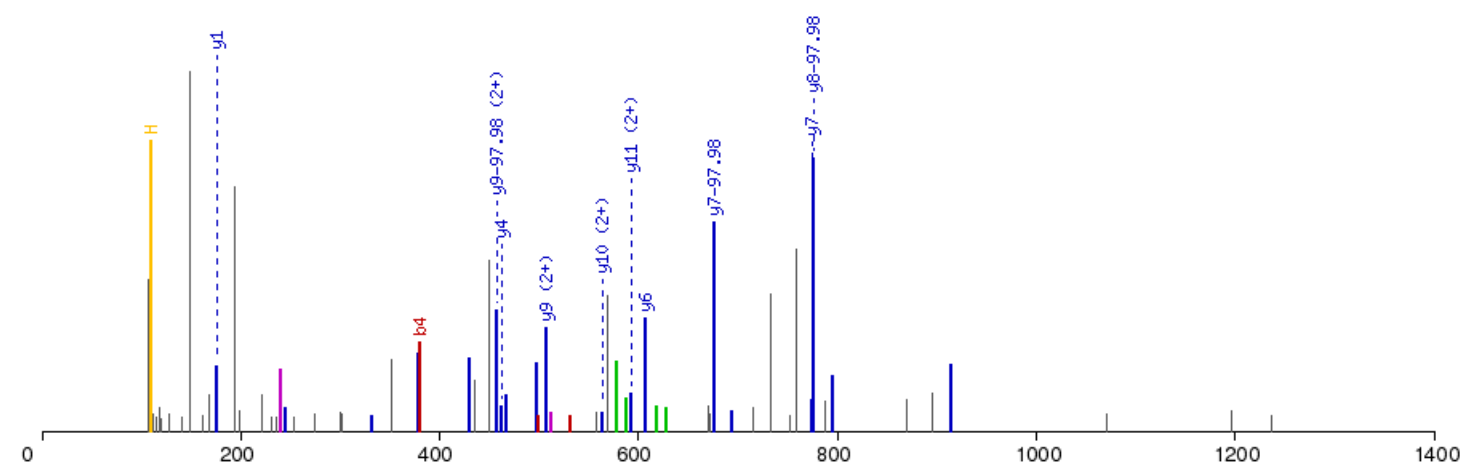
	S	S	S	P	T	Q	Y	G	L	T	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		147.08										a
b		175.07	342.07	439.12	540.17	668.23	831.29	888.31	1001.40	1102.45		b
b-79.97			262.10	359.16	460.20	588.26	751.33	808.35	921.43	1022.48		b-79.97
b-97.98			244.09	341.15	442.19	570.25	733.32	790.34	903.42	1004.47		b-97.98
y		1161.52	1074.49	907.49	810.44	709.39	581.33	418.27	361.24	248.16	147.11	y
y-79.97		1081.55	994.52									y-79.97
y-97.98		1063.54	976.51									y-97.98
y (2+)		581.26	537.75	454.25	405.72	355.20	291.17	209.64	181.13	124.58	74.06	y (2+)
y-79.97 (2+)		541.28	497.76									y-79.97 (2+)
y-97.98 (2+)		532.27	488.76									y-97.98 (2+)
	S	S	S	P	T	Q	Y	G	L	T	K	
	11	10	9	8	7	6	5	4	3	2	1	

AGIHTS(+79.97)GSLSSR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 626.788, Calc. m/z: 626.792
Data File: Pepmix3_HCD.RAW.-1, Scans: 908 - 908

Max Intensity: 6.70e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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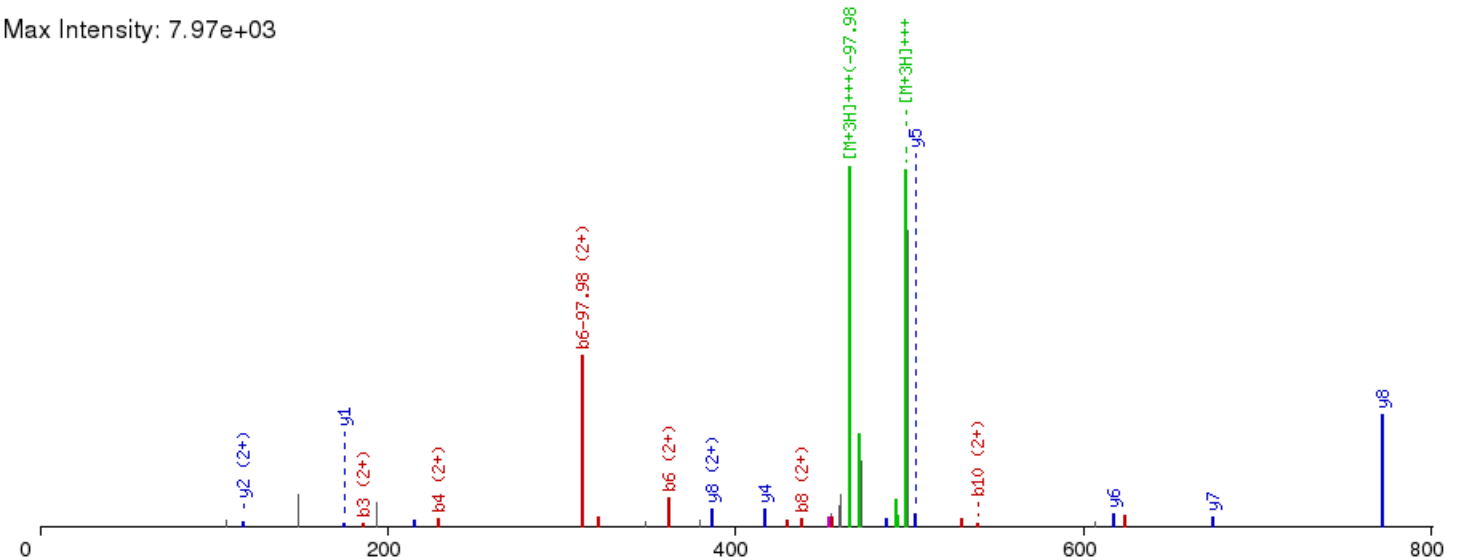
	A	G	I	H	T	S	G	S	L	S	S	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		101.07											a
b		129.07	242.15	379.21	480.26	647.25	704.28	791.31	904.39	991.42	1078.46		b
b-79.97						567.29	624.31	711.34	824.43	911.46	998.49		b-79.97
b-97.98						549.28	606.30	693.33	806.42	893.45	980.48		b-97.98
b (2+)				190.11	240.63	324.13	352.64	396.16	452.70	496.22	539.73		b (2+)
b-79.97 (2+)						284.15	312.66	356.17	412.72	456.23	499.75		b-79.97 (2+)
b-97.98 (2+)						275.14	303.65	347.17	403.71	447.23	490.74		b-97.98 (2+)
y		1181.53	1124.51	1011.43	874.37	773.32	606.32	549.30	462.27	349.18	262.15	175.12	y
y-79.97		1101.56	1044.54	931.46	794.40	693.35							y-79.97
y-97.98		1083.55	1026.53	913.45	776.39	675.34							y-97.98
y (2+)		591.27	562.76	506.22	437.69	387.16	303.66	275.15	231.64	175.10	131.58	88.06	y (2+)
y-79.97 (2+)		551.29	522.78	466.23	397.70	347.18							y-79.97 (2+)
y-97.98 (2+)		542.28	513.77	457.23	388.70	338.17							y-97.98 (2+)
	A	G	I	H	T	S	G	S	L	S	S	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

GRRSPS(+79.97)PGNSPSGR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 497.898, Calc. m/z: 497.901
Data File: Pepmix5_HCD.RAW.-1, Scans: 509 - 509

Max Intensity: 7.97e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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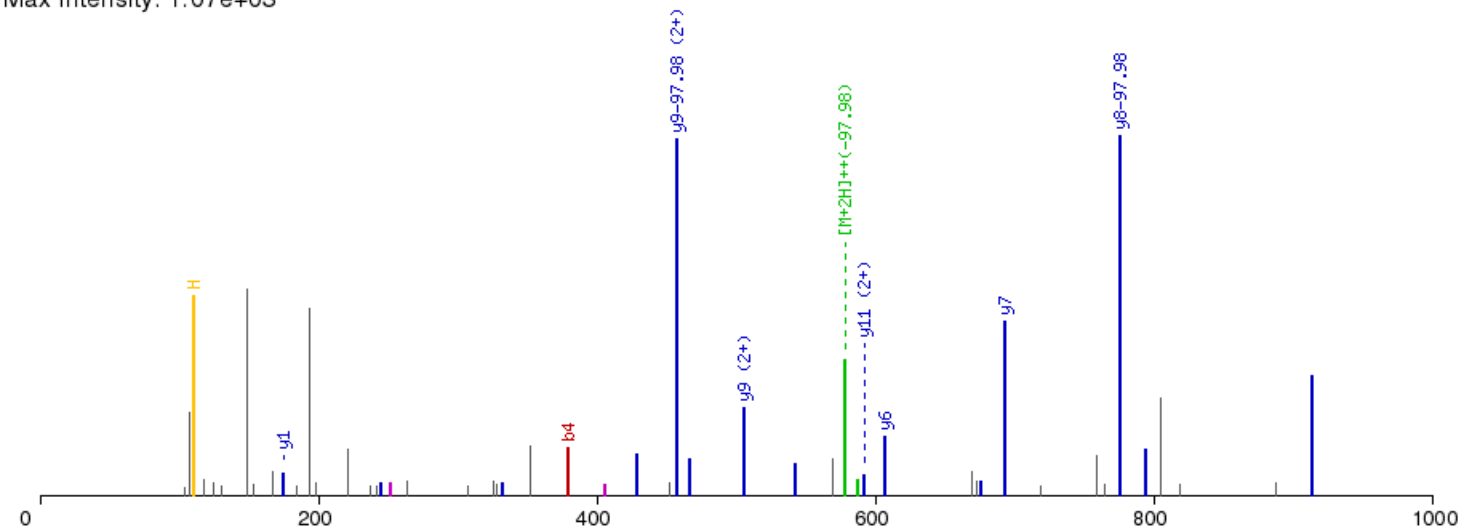
	G	R	R	S	P	S	P	G	N	S	P	S	G	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		186.13													a
a (2+)		93.57													a (2+)
b		214.13	370.23	457.26	554.32	721.31	818.37	875.39	989.43	1076.46	1173.52	1260.55	1317.57		b
b-79.97						641.35	738.40	795.42	909.46	996.50	1093.55	1180.58	1237.60		b-79.97
b-97.98						623.34	720.39	777.41	891.45	978.49	1075.54	1162.57	1219.59		b-97.98
b (2+)		107.57	185.62	229.14	277.66	361.16	409.69	438.20	495.22	538.74	587.26	630.78	659.29		b (2+)
b-79.97 (2+)						321.18	369.70	398.21	455.24	498.75	547.28	590.79	619.31		b-79.97 (2+)
b-97.98 (2+)						312.17	360.70	389.21	446.23	489.75	538.27	581.79	610.30		b-97.98 (2+)
b (3+)			124.08	153.09	185.44	241.11	273.46	292.47	330.48	359.49	391.84	420.85	439.86		b (3+)
b-79.97 (3+)						214.45	246.81	265.81	303.83	332.84	365.19	394.20	413.21		b-79.97 (3+)
b-97.98 (3+)						208.45	240.80	259.81	297.82	326.83	359.18	388.20	407.20		b-97.98 (3+)
y		1434.66	1278.56	1122.46	1035.43	938.37	771.37	674.32	617.30	503.26	416.23	319.17	232.14	175.12	y
y-79.97		1354.69	1198.59	1042.49	955.46	858.41									y-79.97
y-97.98		1336.68	1180.58	1024.48	937.45	840.40									y-97.98
y (2+)		717.83	639.78	561.73	518.22	469.69	386.19	337.66	309.15	252.13	208.62	160.09	116.57	88.06	y (2+)
y-79.97 (2+)		677.85	599.80	521.75	478.23	429.71									y-79.97 (2+)
y-97.98 (2+)		668.85	590.79	512.74	469.23	420.70									y-97.98 (2+)
y (3+)		478.89	426.86												y (3+)
y-79.97 (3+)		452.24	400.20												y-79.97 (3+)
y-97.98 (3+)		446.23	394.20												y-97.98 (3+)
	G	R	R	S	P	S	P	G	N	S	P	S	G	R	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

AGIHT(+79.97)SGSLSSR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 626.788, Calc. m/z: 626.792
Data File: Pepmix3_HCD.RAW.-1, Scans: 823 - 823

Max Intensity: 1.07e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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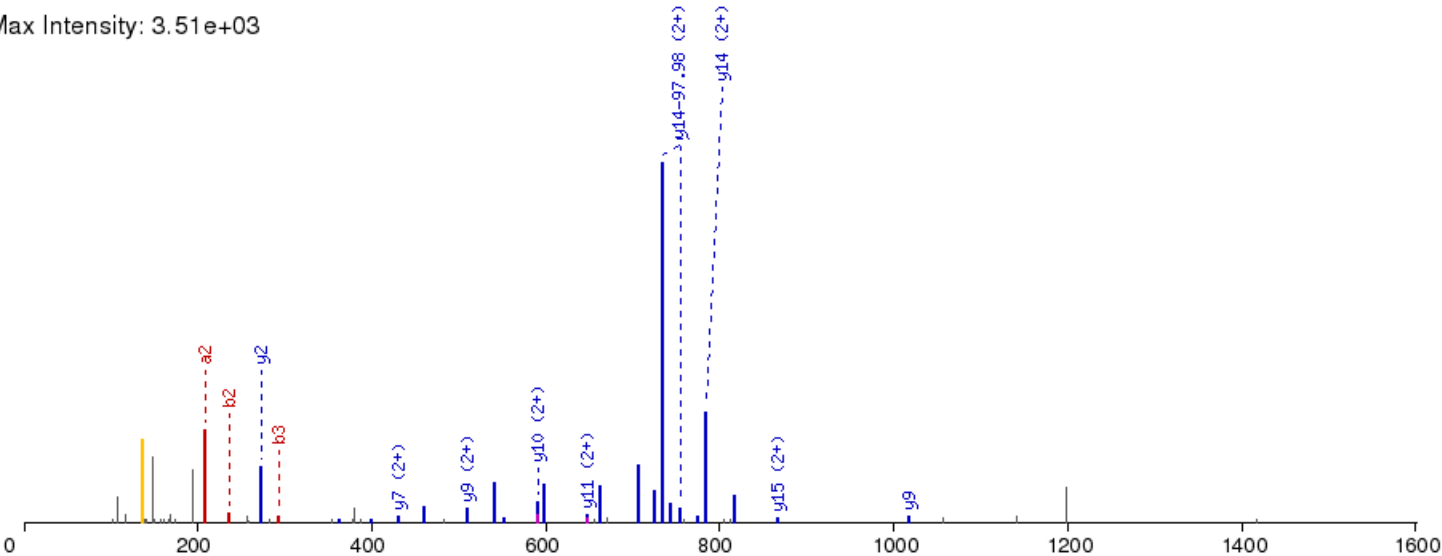
	A	G	I	H	T	S	G	S	L	S	S	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		101.07											a
b		129.07	242.15	379.21	560.22	647.25	704.28	791.31	904.39	991.42	1078.46		b
b-79.97					480.26	567.29	624.31	711.34	824.43	911.46	998.49		b-79.97
b-97.98					462.25	549.28	606.30	693.33	806.42	893.45	980.48		b-97.98
b (2+)				190.11	280.62	324.13	352.64	396.16	452.70	496.22	539.73		b (2+)
b-79.97 (2+)					240.63	284.15	312.66	356.17	412.72	456.23	499.75		b-79.97 (2+)
b-97.98 (2+)					231.63	275.14	303.65	347.17	403.71	447.23	490.74		b-97.98 (2+)
y		1181.53	1124.51	1011.43	874.37	693.35	606.32	549.30	462.27	349.18	262.15	175.12	y
y-79.97		1101.56	1044.54	931.46	794.40								y-79.97
y-97.98		1083.55	1026.53	913.45	776.39								y-97.98
y (2+)		591.27	562.76	506.22	437.69	347.18	303.66	275.15	231.64	175.10	131.58	88.06	y (2+)
y-79.97 (2+)		551.29	522.78	466.23	397.70								y-79.97 (2+)
y-97.98 (2+)		542.28	513.77	457.23	388.70								y-97.98 (2+)
	A	G	I	H	T	S	G	S	L	S	S	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

AYGSELYGPRPLS(+79.97)PR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 600.621, Calc. m/z: 600.624
Data File: Pepmix3_HCD.RAW.-1, Scans: 1494 - 1494

Max Intensity: 3.51e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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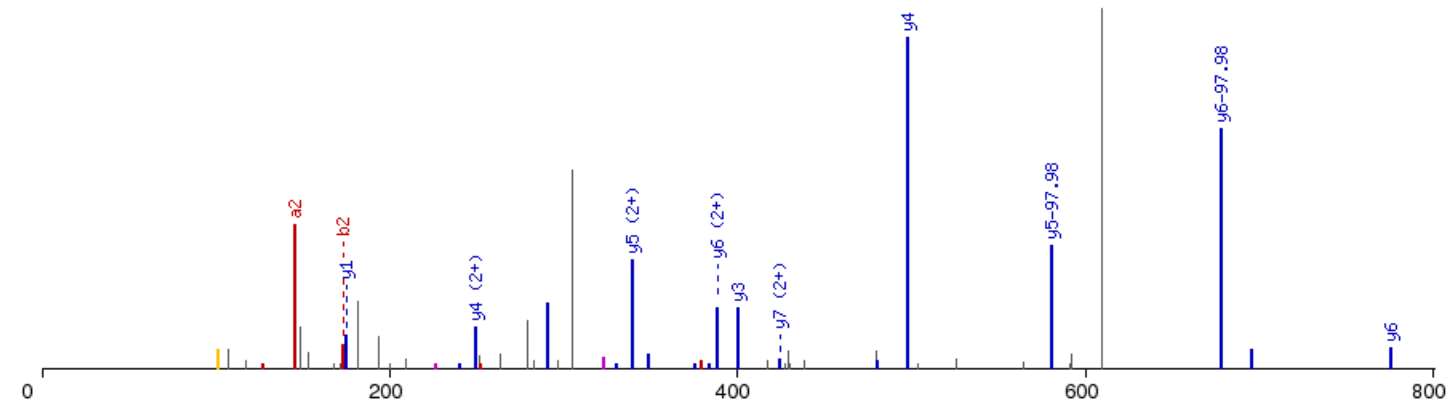
	A	Y	G	S	E	L	Y	G	P	G	R	P	L	S	P	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
a		207.11															a
b		235.11	292.13	379.16	508.20	621.29	784.35	841.37	938.43	995.45	1151.55	1248.60	1361.68	1528.68	1625.74		b
b-79.97														1448.72	1545.77		b-79.97
b-97.98														1430.71	1527.76		b-97.98
b (2+)											576.28	624.80	681.35	764.85	813.37		b (2+)
b-79.97 (2+)														724.86	773.39		b-79.97 (2+)
b-97.98 (2+)														715.86	764.38		b-97.98 (2+)
y		1728.81	1565.75	1508.73	1421.69	1292.65	1179.57	1016.50	959.48	862.43	805.41	649.31	552.25	439.17	272.17	175.12	y
y-79.97		1648.84	1485.78	1428.76	1341.73	1212.68	1099.60	936.54	879.52	782.46	725.44	569.34	472.29	359.20			y-79.97
y-97.98		1630.83	1467.77	1410.75	1323.72	1194.67	1081.59	918.53	861.51	764.45	707.43	551.33	454.28	341.19			y-97.98
y (2+)		864.91	783.38	754.87	711.35	646.83	590.29	508.76	480.24	431.72	403.21	325.16	276.63	220.09	136.59	88.06	y (2+)
y-79.97 (2+)		824.93	743.39	714.88	671.37	606.85	550.30	468.77	440.26	391.74	363.22	285.17	236.65	180.11			y-79.97 (2+)
y-97.98 (2+)		815.92	734.39	705.88	662.36	597.84	541.30	459.77	431.26	382.73	354.22	276.17	227.64	171.10			y-97.98 (2+)
y (3+)		576.94	522.59	503.58	474.57	431.56	393.86	339.51	320.50	288.15	269.14						y (3+)
y-79.97 (3+)		550.29	495.93	476.92	447.91	404.90	367.21	312.85	293.84	261.49	242.49						y-79.97 (3+)
y-97.98 (3+)		544.28	489.93	470.92	441.91	398.90	361.20	306.85	287.84	255.49	236.48						y-97.98 (3+)
	A	Y	G	S	E	L	Y	G	P	G	R	P	L	S	P	R	
	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

TAPT(+79.97)PPKR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 474.239, Calc. m/z: 474.243
Data File: Pepmix3_HCD.RAW.-1, Scans: 664 - 664

Max Intensity: 3.60e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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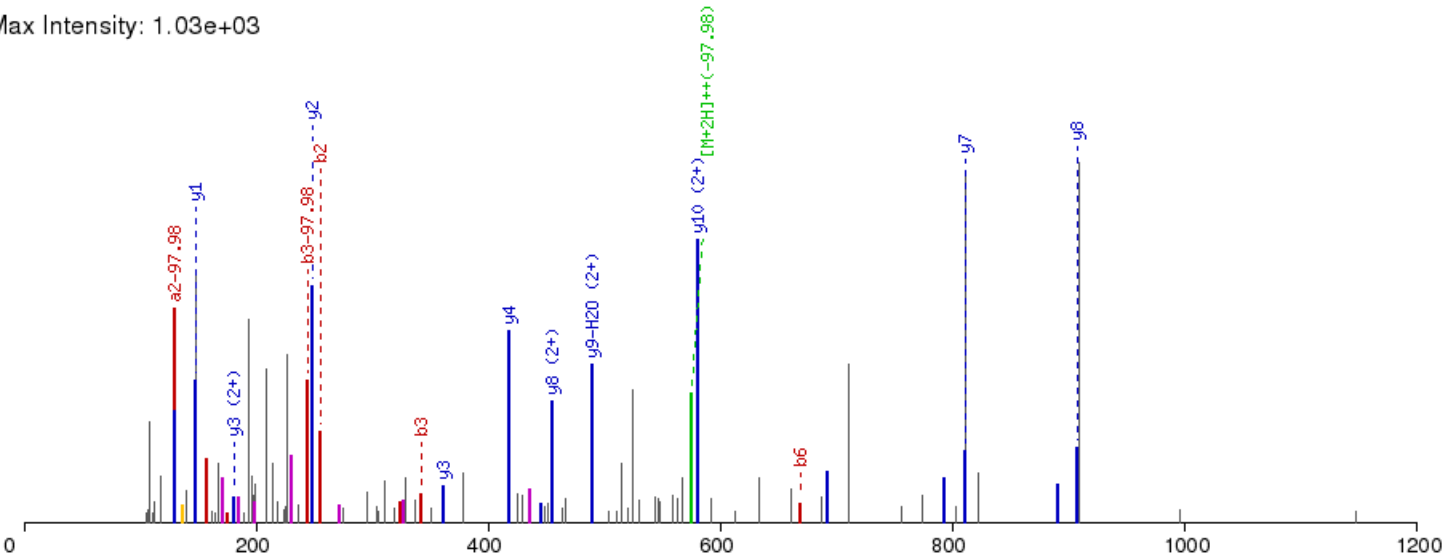
	T	A	P	T	P	P	K	R	
	1	2	3	4	5	6	7	8	
a		145.10							a
b		173.09	270.14	451.16	548.21	645.26	773.36		b
b-79.97				371.19	468.25	565.30	693.39		b-79.97
b-97.98				353.18	450.23	547.29	675.38		b-97.98
b (2+)							387.18		b (2+)
b-79.97 (2+)							347.20		b-79.97 (2+)
b-97.98 (2+)							338.19		b-97.98 (2+)
y		846.42	775.39	678.33	497.32	400.27	303.21	175.12	y
y-79.97		766.46	695.42	598.37					y-79.97
y-97.98		748.45	677.41	580.36					y-97.98
y (2+)		423.72	388.20	339.67	249.16	200.64	152.11	88.06	y (2+)
y-79.97 (2+)		383.73	348.21	299.69					y-79.97 (2+)
y-97.98 (2+)		374.73	339.21	290.68					y-97.98 (2+)
	T	A	P	T	P	P	K	R	
	8	7	6	5	4	3	2	1	

SS(+79.97)SPTQYGLTK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 624.776, Calc. m/z: 624.782
Data File: Pepmix3_HCD.RAW.-1, Scans: 1217 - 1217

Max Intensity: 1.03e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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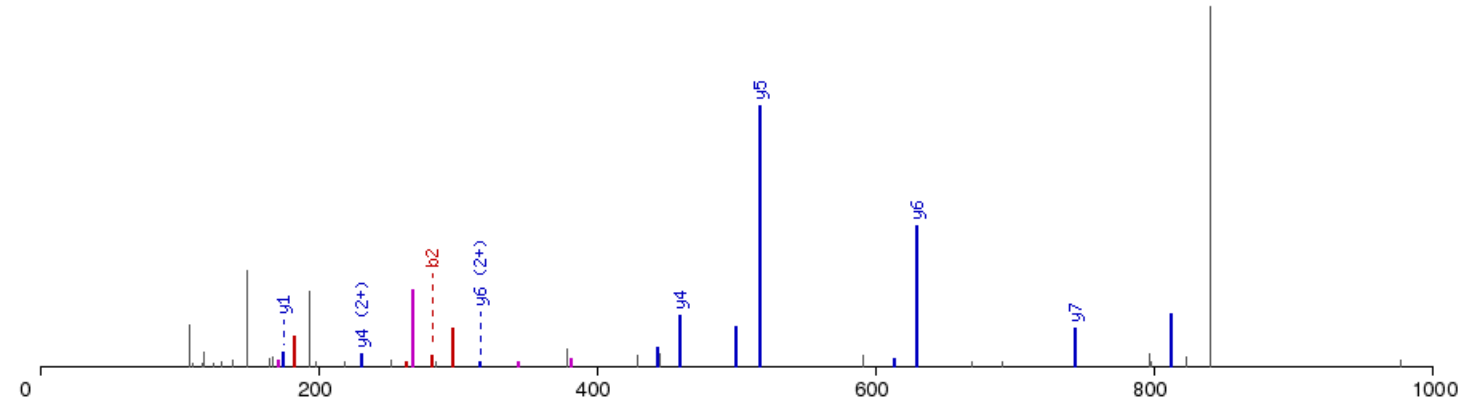
	S	S	S	P	T	Q	Y	G	L	T	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		227.04										a
a-79.97		147.08										a-79.97
a-97.98		129.07										a-97.98
b		255.04	342.07	439.12	540.17	668.23	831.29	888.31	1001.40	1102.45		b
b-79.97		175.07	262.10	359.16	460.20	588.26	751.33	808.35	921.43	1022.48		b-79.97
b-97.98		157.06	244.09	341.15	442.19	570.25	733.32	790.34	903.42	1004.47		b-97.98
y		1161.52	994.52	907.49	810.44	709.39	581.33	418.27	361.24	248.16	147.11	y
y-79.97		1081.55										y-79.97
y-97.98		1063.54										y-97.98
y (2+)		581.26	497.76	454.25	405.72	355.20	291.17	209.64	181.13	124.58	74.06	y (2+)
y-79.97 (2+)		541.28										y-79.97 (2+)
y-97.98 (2+)		532.27										y-97.98 (2+)
	S	S	S	P	T	Q	Y	G	L	T	K	
	11	10	9	8	7	6	5	4	3	2	1	

LS(+79.97)IIGPTSR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 512.266, Calc. m/z: 512.267
Data File: Pepmix2_HCD.RAW.-1, Scans: 1605 - 1605

Max Intensity: 2.59e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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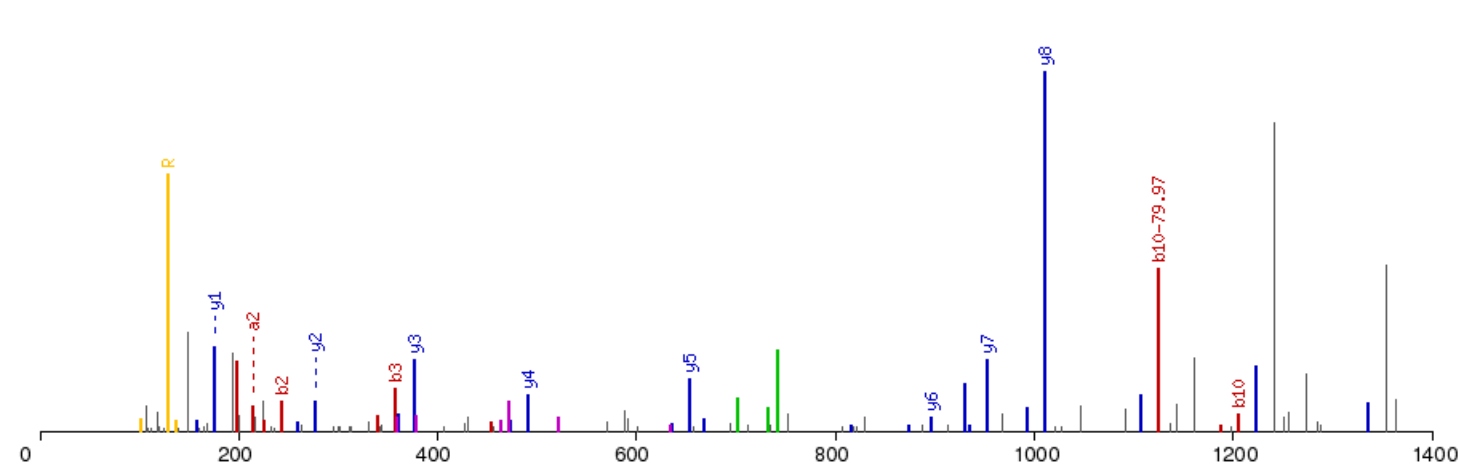
	L	S	I	I	G	P	T	S	R	
	1	2	3	4	5	6	7	8	9	
a		253.09								a
a-79.97		173.13								a-79.97
a-97.98		155.12								a-97.98
b		281.09	394.17	507.26	564.28	661.33	762.38	849.41		b
b-79.97		201.12	314.21	427.29	484.31	581.37	682.41	769.45		b-79.97
b-97.98		183.11	296.20	409.28	466.30	563.36	664.40	751.43		b-97.98
y		910.44	743.44	630.36	517.27	460.25	363.20	262.15	175.12	y
y-79.97		830.47								y-79.97
y-97.98		812.46								y-97.98
y (2+)		455.72	372.22	315.68	259.14	230.63	182.10	131.58	88.06	y (2+)
y-79.97 (2+)		415.74								y-79.97 (2+)
y-97.98 (2+)		406.73								y-97.98 (2+)
	L	S	I	I	G	P	T	S	R	
	9	8	7	6	5	4	3	2	1	

KLDNGGY(+79.97)YITTR

Identified in MSS769 1 x Phospho (Y)

Charge: 2, Exp. m/z: 741.338, Calc. m/z: 740.847
Data File: Pepmix2_HCD.RAW.-1, Scans: 1350 - 1350

Max Intensity: 2.57e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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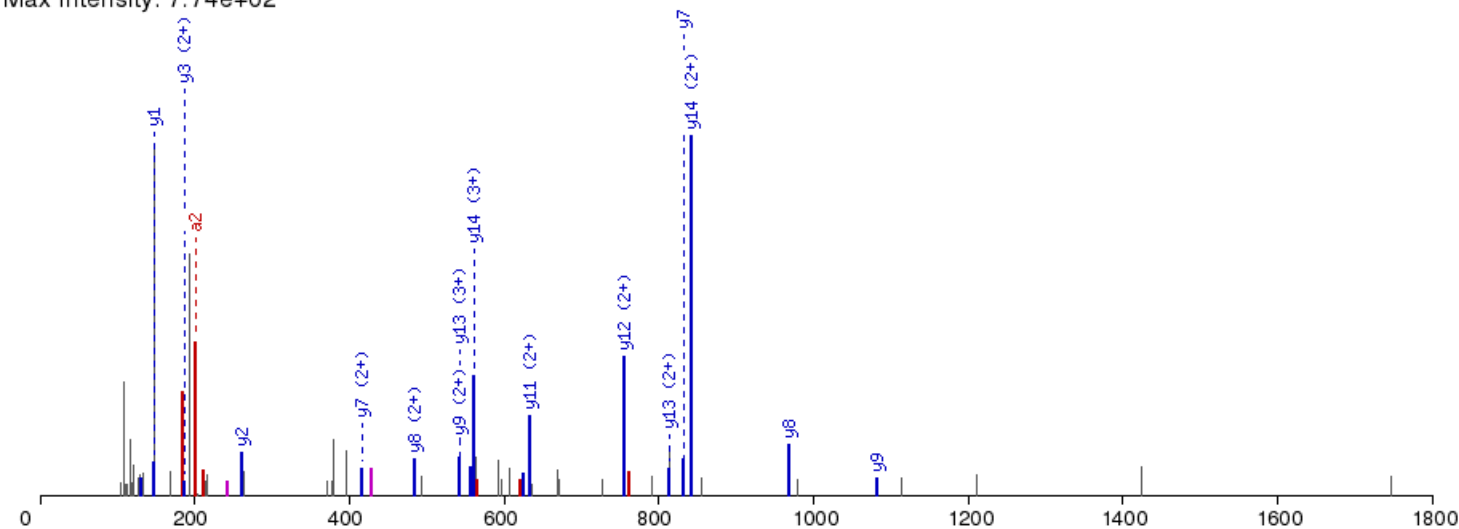
	K	L	D	N	G	G	Y	Y	I	T	T	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		214.19											a
a (2+)		107.60											a (2+)
b		242.19	357.21	471.26	528.28	585.30	828.33	991.39	1104.48	1205.52	1306.57		b
b-79.97							748.36	911.43	1024.51	1125.56	1226.61		b-79.97
b (2+)		121.60	179.11	236.13	264.64	293.15	414.67	496.20	552.74	603.27	653.79		b (2+)
b-79.97 (2+)							374.68	456.22	512.76	563.28	613.81		b-79.97 (2+)
y		1352.59	1239.50	1124.48	1010.43	953.41	896.39	653.36	490.30	377.21	276.17	175.12	y
y-79.97		1272.62	1159.54	1044.51	930.47	873.45	816.43						y-79.97
y (2+)		676.80	620.26	562.74	505.72	477.21	448.70	327.18	245.65	189.11	138.59	88.06	y (2+)
y-79.97 (2+)		636.81	580.27	522.76	465.74	437.23	408.72						y-79.97 (2+)
	K	L	D	N	G	G	Y	Y	I	T	T	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

EVGDY(+79.97)GQLHETEVLLK

Identified in MSS769 1 x Phospho (Y)

Charge: 3, Exp. m/z: 637.304, Calc. m/z: 637.304
Data File: Pepmix4_HCD.RAW.-1, Scans: 1691 - 1691

Max Intensity: 7.74e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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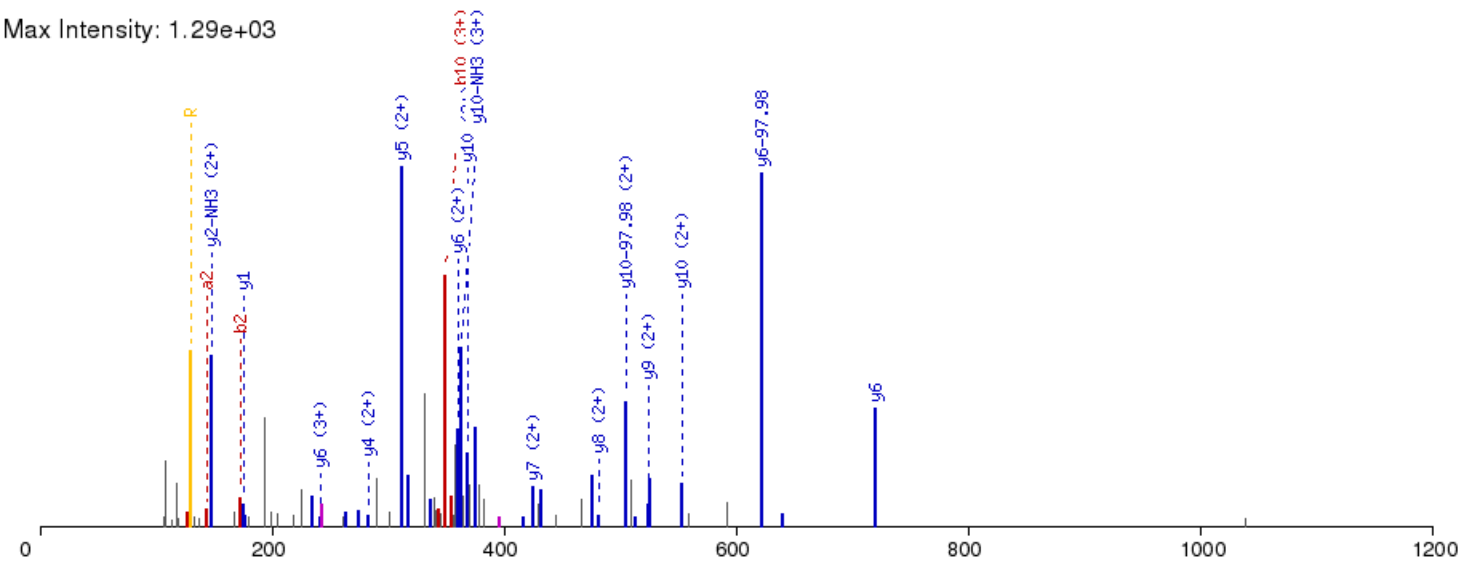
	E	V	G	D	Y	G	Q	L	H	E	T	E	V	L	L	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
a		201.12															a
b		229.12	286.14	401.17	644.20	701.22	829.28	942.36	1079.42	1208.46	1309.51	1438.55	1537.62	1650.70	1763.79		b
b-79.97					564.23	621.25	749.31	862.39	999.45	1128.50	1229.54	1358.59	1457.65	1570.74	1683.82		b-79.97
b (2+)									540.21	604.73	655.26	719.78	769.31	825.86	882.40		b (2+)
b-79.97 (2+)									500.23	564.75	615.28	679.80	729.33	785.87	842.41		b-79.97 (2+)
y		1780.85	1681.78	1624.76	1509.73	1266.71	1209.68	1081.63	968.54	831.48	702.44	601.39	472.35	373.28	260.20	147.11	y
y-79.97		1700.89	1601.82	1544.80	1429.77												y-79.97
y (2+)		890.93	841.40	812.88	755.37	633.86	605.35	541.32	484.77	416.24	351.72	301.20	236.68	187.14	130.60	74.06	y (2+)
y-79.97 (2+)		850.95	801.41	772.90	715.39												y-79.97 (2+)
y (3+)		594.29	561.27	542.26	503.92	422.91	403.90	361.21	323.52								y (3+)
y-79.97 (3+)		567.63	534.61	515.60	477.26												y-79.97 (3+)
	E	V	G	D	Y	G	Q	L	H	E	T	E	V	L	L	K	
	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

NGSLKPGSS(+79.97)HR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 407.191, Calc. m/z: 407.194
Data File: Pepmix2_HCD.RAW.-1, Scans: 495 - 495

Max Intensity: 1.29e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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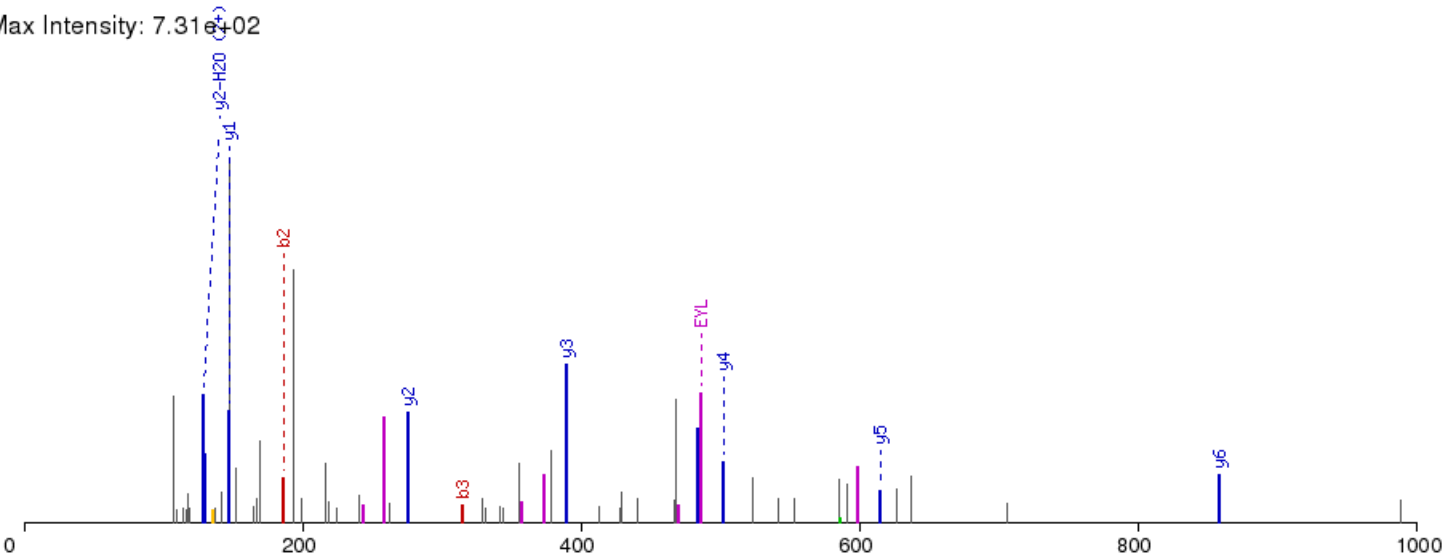
	N	G	S	L	K	P	G	S	S	H	R	
	1	2	3	4	5	6	7	8	9	10	11	
a		144.08										a
b		172.07	259.10	372.19	500.28	597.34	654.36	741.39	908.39	1045.45		b
b-79.97									828.42	965.48		b-79.97
b-97.98									810.41	947.47		b-97.98
b (2+)					250.65	299.17	327.68	371.20	454.70	523.23		b (2+)
b-79.97 (2+)									414.71	483.24		b-79.97 (2+)
b-97.98 (2+)									405.71	474.24		b-97.98 (2+)
b (3+)										349.15		b (3+)
b-79.97 (3+)										322.50		b-79.97 (3+)
b-97.98 (3+)										316.49		b-97.98 (3+)
y		1105.51	1048.49	961.46	848.38	720.28	623.23	566.21	479.18	312.18	175.12	y
y-79.97		1025.55	968.53	881.50	768.41	640.32	543.26	486.24	399.21			y-79.97
y-97.98		1007.54	950.52	863.48	750.40	622.31	525.25	468.23	381.20			y-97.98
y (2+)		553.26	524.75	481.23	424.69	360.64	312.12	283.61	240.09	156.59	88.06	y (2+)
y-79.97 (2+)		513.28	484.77	441.25	384.71	320.66	272.14	243.62	200.11			y-79.97 (2+)
y-97.98 (2+)		504.27	475.76	432.25	375.70	311.66	263.13	234.62	191.10			y-97.98 (2+)
y (3+)		369.18	350.17	321.16	283.46	240.77	208.41	189.41	160.40	104.73		y (3+)
y-79.97 (3+)		342.52	323.51	294.50	256.81	214.11	181.76	162.75	133.74			y-79.97 (3+)
y-97.98 (3+)		336.52	317.51	288.50	250.81	208.11	175.76	156.75	127.74			y-97.98 (3+)
	N	G	S	L	K	P	G	S	S	H	R	
	11	10	9	8	7	6	5	4	3	2	1	

GQEY(+79.97)LILEK

Identified in MSS769 1 x Phospho (Y)

Charge: 2, Exp. m/z: 586.784, Calc. m/z: 586.782
Data File: Pepmix1_HCD.RAW.-1, Scans: 1633 - 1633

Max Intensity: 7.31e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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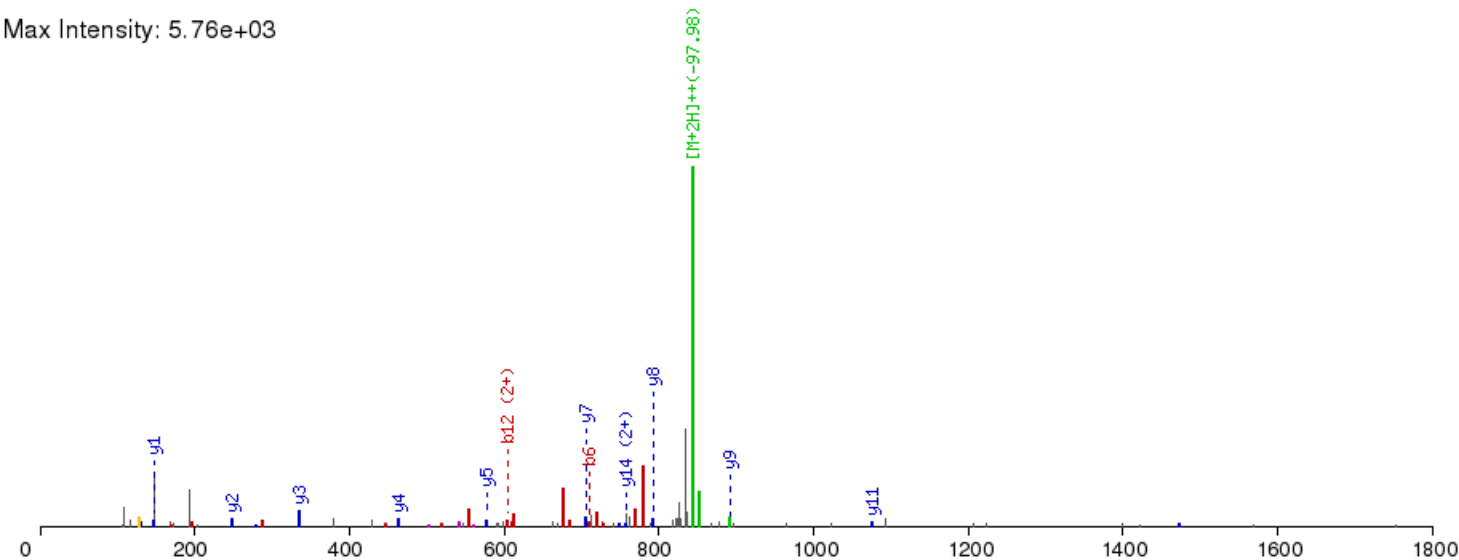
	G	Q	E	Y	L	I	L	E	K	
	1	2	3	4	5	6	7	8	9	
a		158.09								a
b		186.09	315.13	558.16	671.24	784.33	897.41	1026.45		b
b-79.97				478.19	591.28	704.36	817.45	946.49		b-79.97
y		1115.54	987.48	858.44	615.41	502.32	389.24	276.16	147.11	y
y-79.97		1035.57	907.51	778.47						y-79.97
y (2+)		558.27	494.24	429.72	308.21	251.67	195.12	138.58	74.06	y (2+)
y-79.97 (2+)		518.29	454.26	389.74						y-79.97 (2+)
	G	Q	E	Y	L	I	L	E	K	
	9	8	7	6	5	4	3	2	1	

GRGS(+79.97)RDALVSGALESTK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 892.440, Calc. m/z: 892.442
Data File: Pepmix4_HCD.RAW.-1, Scans: 1278 - 1278

Max Intensity: 5.76e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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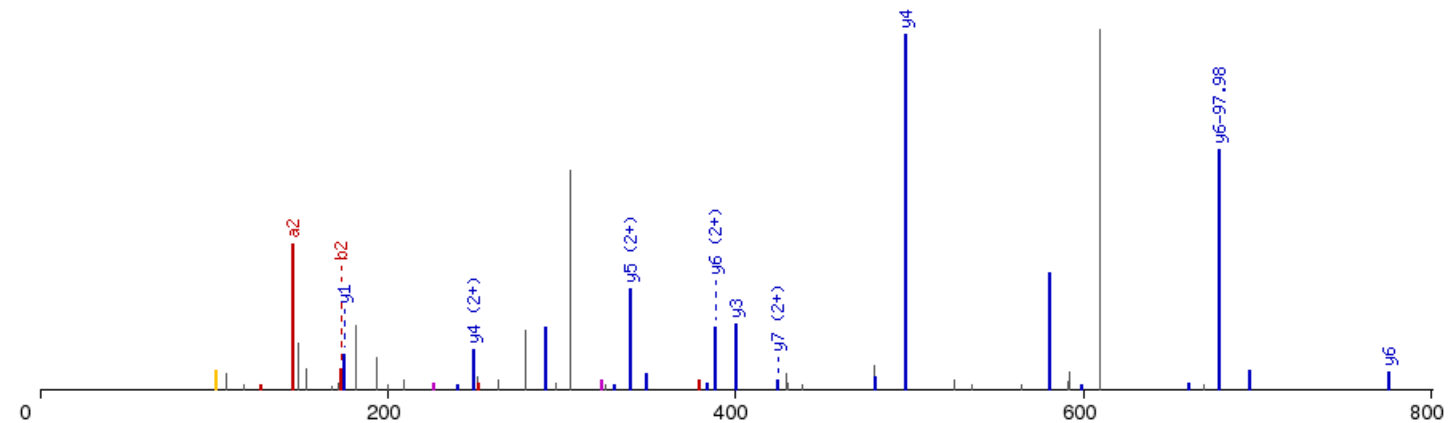
	G	R	G	S	R	D	A	L	V	S	G	A	L	E	S	T	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
a		186.13																a
a (2+)		93.57																a (2+)
b		214.13	271.15	438.15	594.25	709.28	780.31	893.40	992.47	1079.50	1136.52	1207.56	1320.64	1449.68	1536.72	1637.76		b
b-79.97				358.18	514.28	629.31	700.35	813.43	912.50	999.53	1056.55	1127.59	1240.68	1369.72	1456.75	1557.80		b-79.97
b-97.98				340.17	496.27	611.30	682.34	795.42	894.49	981.52	1038.54	1109.58	1222.67	1351.71	1438.74	1539.79		b-97.98
b (2+)		107.57	136.08	219.58	297.63	355.14	390.66	447.20	496.74	540.25	568.76	604.28	660.82	725.35	768.86	819.39		b (2+)
b-79.97 (2+)				179.60	257.65	315.16	350.68	407.22	456.75	500.27	528.78	564.30	620.84	685.36	728.88	779.40		b-79.97 (2+)
b-97.98 (2+)				170.59	248.64	306.15	341.67	398.21	447.75	491.26	519.78	555.29	611.84	676.36	719.87	770.40		b-97.98 (2+)
y		1726.85	1570.75	1513.73	1346.73	1190.63	1075.60	1004.56	891.48	792.41	705.38	648.36	577.32	464.24	335.19	248.16	147.11	y
y-79.97		1646.88	1490.78	1433.76														y-79.97
y-97.98		1628.87	1472.77	1415.75														y-97.98
y (2+)		863.93	785.88	757.37	673.87	595.82	538.30	502.78	446.24	396.71	353.19	324.68	289.16	232.62	168.10	124.58	74.06	y (2+)
y-79.97 (2+)		823.94	745.89	717.38														y-79.97 (2+)
y-97.98 (2+)		814.94	736.89	708.38														y-97.98 (2+)
	G	R	G	S	R	D	A	L	V	S	G	A	L	E	S	T	K	
	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

TAPT(+79.97)PPKR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 474.239, Calc. m/z: 474.239
Data File: Pepmix3_HCD.RAW.-1, Scans: 658 - 658

Max Intensity: 5.08e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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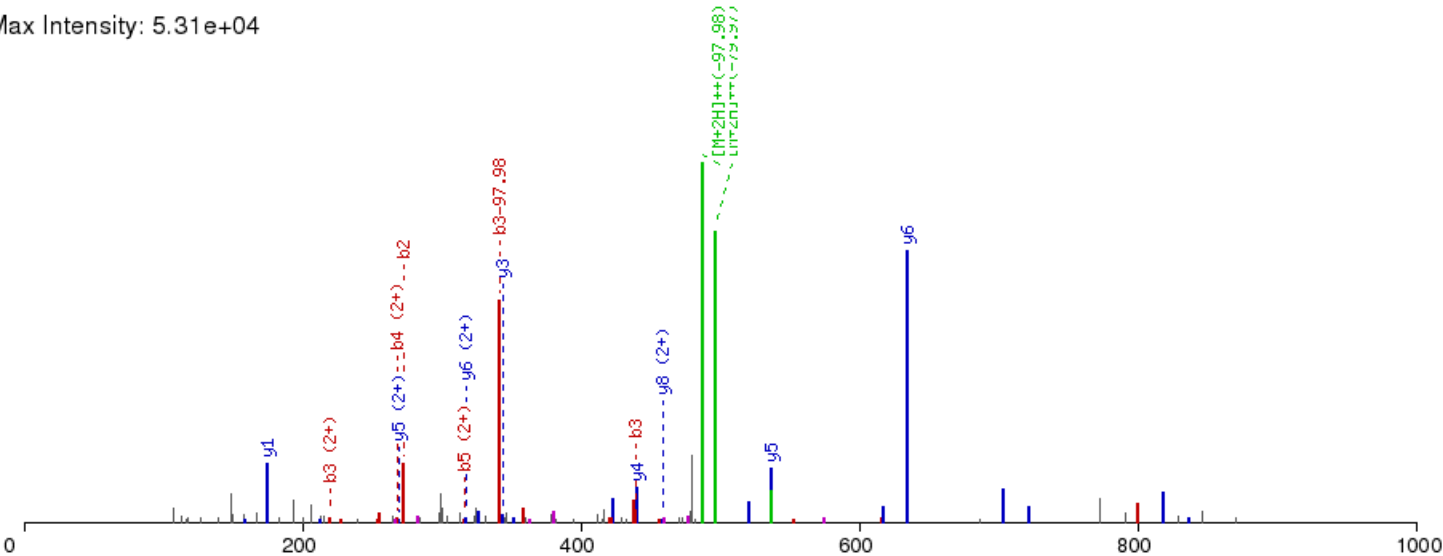
	T	A	P	T	P	P	K	R	
	1	2	3	4	5	6	7	8	
a		145.10							a
b		173.09	270.14	451.16	548.21	645.26	773.36		b
b-79.97				371.19	468.25	565.30	693.39		b-79.97
b-97.98				353.18	450.23	547.29	675.38		b-97.98
b (2+)							387.18		b (2+)
b-79.97 (2+)							347.20		b-79.97 (2+)
b-97.98 (2+)							338.19		b-97.98 (2+)
y		846.42	775.39	678.33	497.32	400.27	303.21	175.12	y
y-79.97		766.46	695.42	598.37					y-79.97
y-97.98		748.45	677.41	580.36					y-97.98
y (2+)		423.72	388.20	339.67	249.16	200.64	152.11	88.06	y (2+)
y-79.97 (2+)		383.73	348.21	299.69					y-79.97 (2+)
y-97.98 (2+)		374.73	339.21	290.68					y-97.98 (2+)
	T	A	P	T	P	P	K	R	
	8	7	6	5	4	3	2	1	

RDS(+79.97)PPPPAR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 536.750, Calc. m/z: 536.752
Data File: Pepmix2_HCD.RAW.-1, Scans: 587 - 587

Max Intensity: 5.31e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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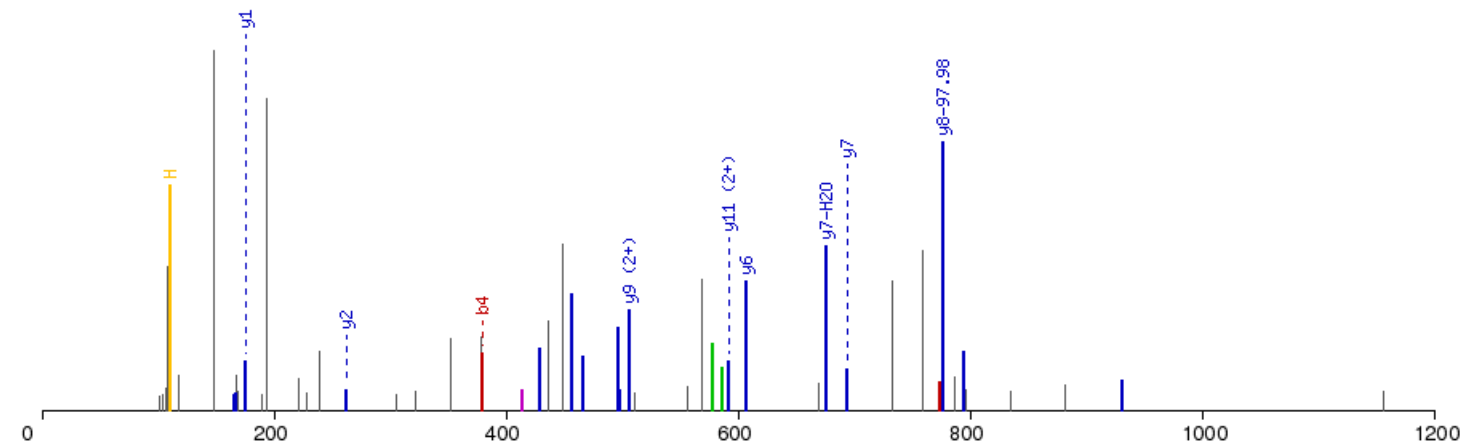
	R	D	S	P	P	P	P	A	R	
	1	2	3	4	5	6	7	8	9	
a		244.14								a
a (2+)		122.57								a (2+)
b		272.14	439.13	536.19	633.24	730.29	827.34	898.38		b
b-79.97			359.17	456.22	553.27	650.33	747.38	818.42		b-79.97
b-97.98			341.16	438.21	535.26	632.32	729.37	800.40		b-97.98
b (2+)		136.57	220.07	268.60	317.12	365.65	414.18	449.69		b (2+)
b-79.97 (2+)			180.09	228.61	277.14	325.67	374.19	409.71		b-79.97 (2+)
b-97.98 (2+)			171.08	219.61	268.13	316.66	365.19	400.71		b-97.98 (2+)
y		916.39	801.37	634.37	537.31	440.26	343.21	246.16	175.12	y
y-79.97		836.43	721.40							y-79.97
y-97.98		818.42	703.39							y-97.98
y (2+)		458.70	401.19	317.69	269.16	220.63	172.11	123.58	88.06	y (2+)
y-79.97 (2+)		418.72	361.20							y-79.97 (2+)
y-97.98 (2+)		409.71	352.20							y-97.98 (2+)
	R	D	S	P	P	P	P	A	R	
	9	8	7	6	5	4	3	2	1	

AGIHT(+79.97)SGSLSSR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 626.788, Calc. m/z: 626.792
Data File: Pepmix3_HCD.RAW.-1, Scans: 989 - 989

Max Intensity: 6.07e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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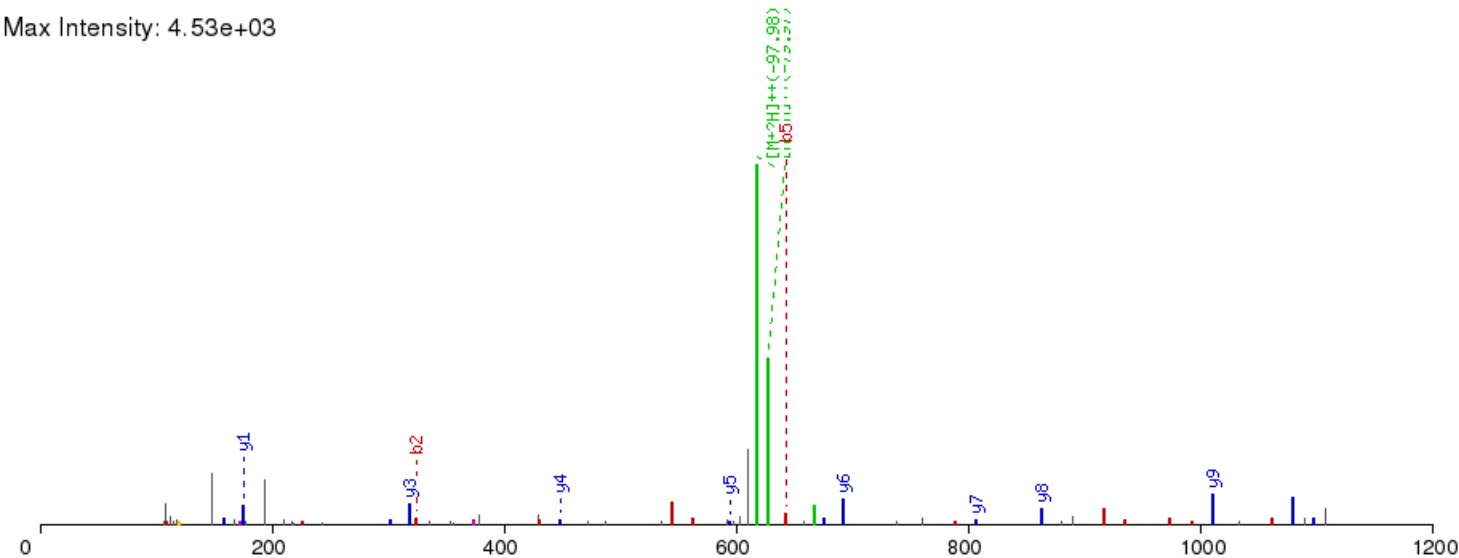
	A	G	I	H	T	S	G	S	L	S	S	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		101.07											a
b		129.07	242.15	379.21	560.22	647.25	704.28	791.31	904.39	991.42	1078.46		b
b-79.97					480.26	567.29	624.31	711.34	824.43	911.46	998.49		b-79.97
b-97.98					462.25	549.28	606.30	693.33	806.42	893.45	980.48		b-97.98
b (2+)				190.11	280.62	324.13	352.64	396.16	452.70	496.22	539.73		b (2+)
b-79.97 (2+)					240.63	284.15	312.66	356.17	412.72	456.23	499.75		b-79.97 (2+)
b-97.98 (2+)					231.63	275.14	303.65	347.17	403.71	447.23	490.74		b-97.98 (2+)
y		1181.53	1124.51	1011.43	874.37	693.35	606.32	549.30	462.27	349.18	262.15	175.12	y
y-79.97		1101.56	1044.54	931.46	794.40								y-79.97
y-97.98		1083.55	1026.53	913.45	776.39								y-97.98
y (2+)		591.27	562.76	506.22	437.69	347.18	303.66	275.15	231.64	175.10	131.58	88.06	y (2+)
y-79.97 (2+)		551.29	522.78	466.23	397.70								y-79.97 (2+)
y-97.98 (2+)		542.28	513.77	457.23	388.70								y-97.98 (2+)
	A	G	I	H	T	S	G	S	L	S	S	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

RS(+79.97)FGNPFEGSR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 667.297, Calc. m/z: 667.292
Data File: Pepmix2_HCD.RAW.-1, Scans: 1573 - 1573

Max Intensity: 4.53e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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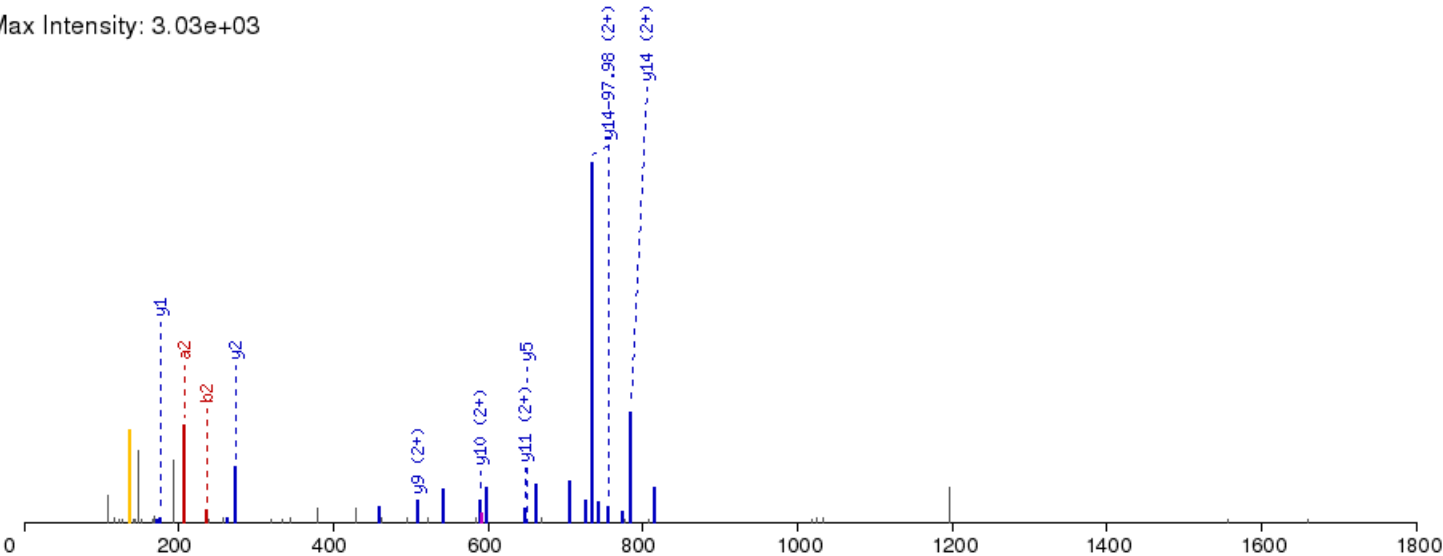
	R	S	F	G	N	P	F	E	G	S	R	
	1	2	3	4	5	6	7	8	9	10	11	
a		296.11										a
a-79.97		216.15										a-79.97
a-97.98		198.13										a-97.98
a (2+)		148.56										a (2+)
a-79.97 (2+)		108.58										a-79.97 (2+)
a-97.98 (2+)		99.57										a-97.98 (2+)
b		324.11	471.18	528.20	642.24	739.29	886.36	1015.40	1072.42	1159.46		b
b-79.97		244.14	391.21	448.23	562.27	659.33	806.39	935.44	992.46	1079.49		b-79.97
b-97.98		226.13	373.20	430.22	544.26	641.32	788.38	917.43	974.45	1061.48		b-97.98
b (2+)		162.56	236.09	264.60	321.62	370.15	443.68	508.21	536.72	580.23		b (2+)
b-79.97 (2+)		122.57	196.11	224.62	281.64	330.17	403.70	468.22	496.73	540.25		b-79.97 (2+)
b-97.98 (2+)		113.57	187.10	215.61	272.63	321.16	394.70	459.22	487.73	531.24		b-97.98 (2+)
y		1177.47	1010.47	863.40	806.38	692.34	595.28	448.22	319.17	262.15	175.12	y
y-79.97		1097.50										y-79.97
y-97.98		1079.49										y-97.98
y (2+)		589.24	505.74	432.20	403.69	346.67	298.15	224.61	160.09	131.58	88.06	y (2+)
y-79.97 (2+)		549.25										y-79.97 (2+)
y-97.98 (2+)		540.25										y-97.98 (2+)
	R	S	F	G	N	P	F	E	G	S	R	
	11	10	9	8	7	6	5	4	3	2	1	

AYGSELYGPRPLS(+79.97)PR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 600.621, Calc. m/z: 600.624
Data File: Pepmix3_HCD.RAW.-1, Scans: 1500 - 1500

Max Intensity: 3.03e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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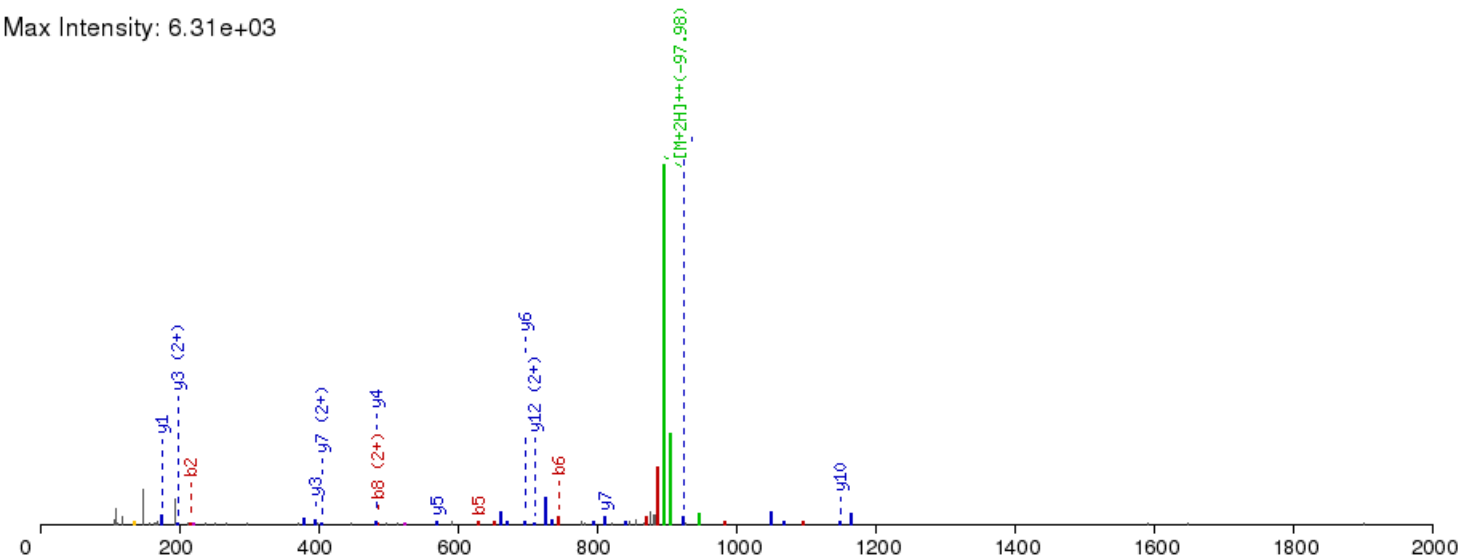
	A	Y	G	S	E	L	Y	G	P	G	R	P	L	S	P	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
a		207.11															a
b		235.11	292.13	379.16	508.20	621.29	784.35	841.37	938.43	995.45	1151.55	1248.60	1361.68	1528.68	1625.74		b
b-79.97														1448.72	1545.77		b-79.97
b-97.98														1430.71	1527.76		b-97.98
b (2+)											576.28	624.80	681.35	764.85	813.37		b (2+)
b-79.97 (2+)														724.86	773.39		b-79.97 (2+)
b-97.98 (2+)														715.86	764.38		b-97.98 (2+)
y		1728.81	1565.75	1508.73	1421.69	1292.65	1179.57	1016.50	959.48	862.43	805.41	649.31	552.25	439.17	272.17	175.12	y
y-79.97		1648.84	1485.78	1428.76	1341.73	1212.68	1099.60	936.54	879.52	782.46	725.44	569.34	472.29	359.20			y-79.97
y-97.98		1630.83	1467.77	1410.75	1323.72	1194.67	1081.59	918.53	861.51	764.45	707.43	551.33	454.28	341.19			y-97.98
y (2+)		864.91	783.38	754.87	711.35	646.83	590.29	508.76	480.24	431.72	403.21	325.16	276.63	220.09	136.59	88.06	y (2+)
y-79.97 (2+)		824.93	743.39	714.88	671.37	606.85	550.30	468.77	440.26	391.74	363.22	285.17	236.65	180.11			y-79.97 (2+)
y-97.98 (2+)		815.92	734.39	705.88	662.36	597.84	541.30	459.77	431.26	382.73	354.22	276.17	227.64	171.10			y-97.98 (2+)
y (3+)		576.94	522.59	503.58	474.57	431.56	393.86	339.51	320.50	288.15	269.14						y (3+)
y-79.97 (3+)		550.29	495.93	476.92	447.91	404.90	367.21	312.85	293.84	261.49	242.49						y-79.97 (3+)
y-97.98 (3+)		544.28	489.93	470.92	441.91	398.90	361.20	306.85	287.84	255.49	236.48						y-97.98 (3+)
	A	Y	G	S	E	L	Y	G	P	G	R	P	L	S	P	R	
	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

LTEERDGS(+79.97)LNQSSGYR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 946.415, Calc. m/z: 946.417
Data File: Pepmix3_HCD.RAW.-1, Scans: 992 - 992

Max Intensity: 6.31e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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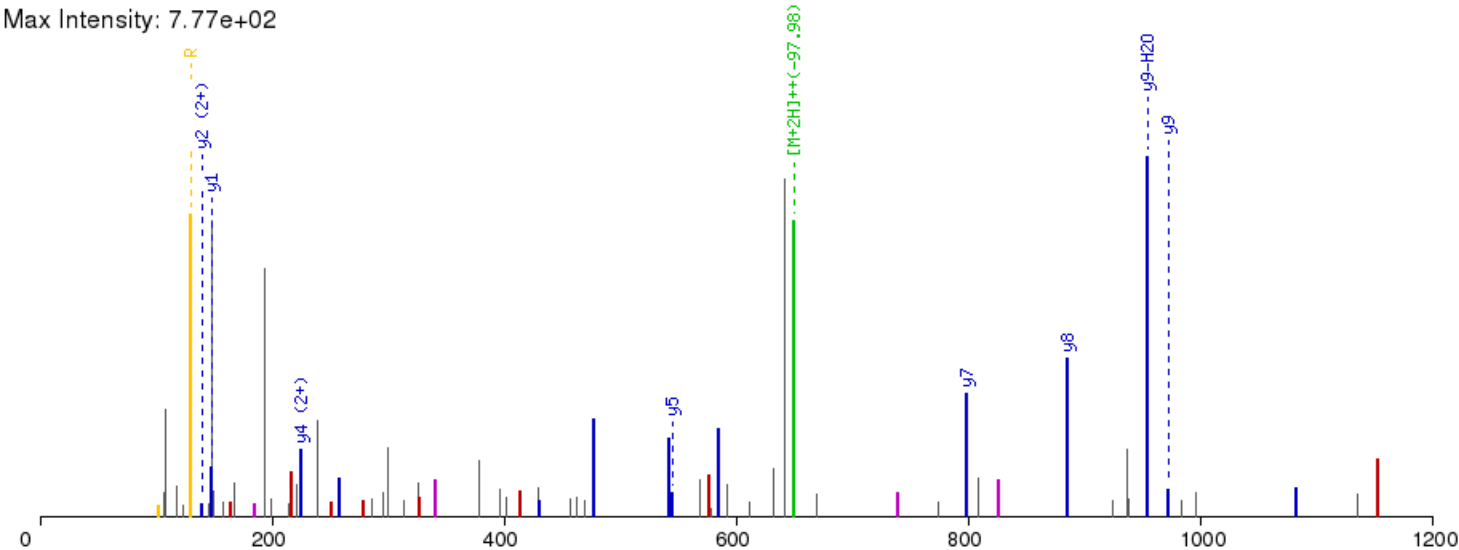
	L	T	E	E	R	D	G	S	L	N	Q	S	S	G	Y	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
a		187.14															a
b		215.14	344.18	473.22	629.33	744.35	801.37	968.37	1081.46	1195.50	1323.56	1410.59	1497.62	1554.64	1717.71		b
b-79.97								888.41	1001.49	1115.53	1243.59	1330.62	1417.66	1474.68	1637.74		b-79.97
b-97.98								870.40	983.48	1097.52	1225.58	1312.61	1399.64	1456.67	1619.73		b-97.98
b (2+)					315.17	372.68	401.19	484.69	541.23	598.25	662.28	705.80	749.31	777.83	859.36		b (2+)
b-79.97 (2+)								444.71	501.25	558.27	622.30	665.82	709.33	737.84	819.37		b-79.97 (2+)
b-97.98 (2+)								435.70	492.24	549.26	613.29	656.81	700.33	728.84	810.37		b-97.98 (2+)
y		1778.73	1677.69	1548.64	1419.60	1263.50	1148.47	1091.45	924.45	811.37	697.33	569.27	482.24	395.20	338.18	175.12	y
y-79.97		1698.77	1597.72	1468.68	1339.63	1183.53	1068.51	1011.49									y-79.97
y-97.98		1680.76	1579.71	1450.67	1321.62	1165.52	1050.50	993.47									y-97.98
y (2+)		889.87	839.35	774.83	710.30	632.25	574.74	546.23	462.73	406.19	349.17	285.14	241.62	198.11	169.59	88.06	y (2+)
y-79.97 (2+)		849.89	799.36	734.84	670.32	592.27	534.76	506.25									y-79.97 (2+)
y-97.98 (2+)		840.88	790.36	725.84	661.32	583.27	525.75	497.24									y-97.98 (2+)
	L	T	E	E	R	D	G	S	L	N	Q	S	S	G	Y	R	
	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

ES(+79.97)KSSPRPTAEK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 698.828, Calc. m/z: 698.832
Data File: Pepmix3_HCD.RAW.-1, Scans: 488 - 488

Max Intensity: 7.77e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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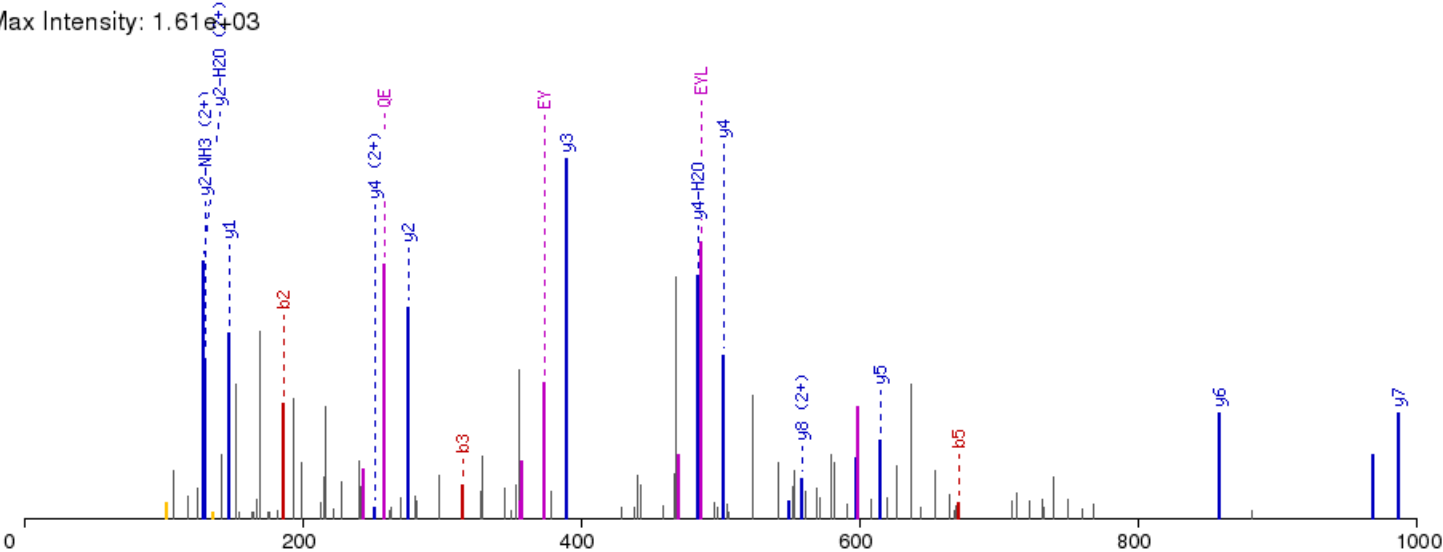
	E	S	K	S	S	P	R	P	T	A	E	K	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		269.05											a
a-79.97		189.09											a-79.97
a-97.98		171.08											a-97.98
b		297.05	425.14	512.18	599.21	696.26	852.36	949.41	1050.46	1121.50	1250.54		b
b-79.97		217.08	345.18	432.21	519.24	616.29	772.39	869.45	970.50	1041.53	1170.57		b-79.97
b-97.98		199.07	327.17	414.20	501.23	598.28	754.38	851.44	952.48	1023.52	1152.56		b-97.98
b (2+)			213.08	256.59	300.11	348.63	426.68	475.21	525.73	561.25	625.77		b (2+)
b-79.97 (2+)			173.09	216.61	260.12	308.65	386.70	435.23	485.75	521.27	585.79		b-79.97 (2+)
b-97.98 (2+)			164.09	207.60	251.12	299.65	377.70	426.22	476.75	512.26	576.79		b-97.98 (2+)
y		1267.60	1100.61	972.51	885.48	798.45	701.39	545.29	448.24	347.19	276.16	147.11	y
y-79.97		1187.64											y-79.97
y-97.98		1169.63											y-97.98
y (2+)		634.31	550.81	486.76	443.24	399.73	351.20	273.15	224.62	174.10	138.58	74.06	y (2+)
y-79.97 (2+)		594.32											y-79.97 (2+)
y-97.98 (2+)		585.32											y-97.98 (2+)
	E	S	K	S	S	P	R	P	T	A	E	K	
	12	11	10	9	8	7	6	5	4	3	2	1	

GQEY(+79.97)LILEK

Identified in MSS769 1 x Phospho (Y)

Charge: 2, Exp. m/z: 586.790, Calc. m/z: 586.787
Data File: Pepmix1_HCD.RAW.-1, Scans: 1621 - 1621

Max Intensity: 1.61e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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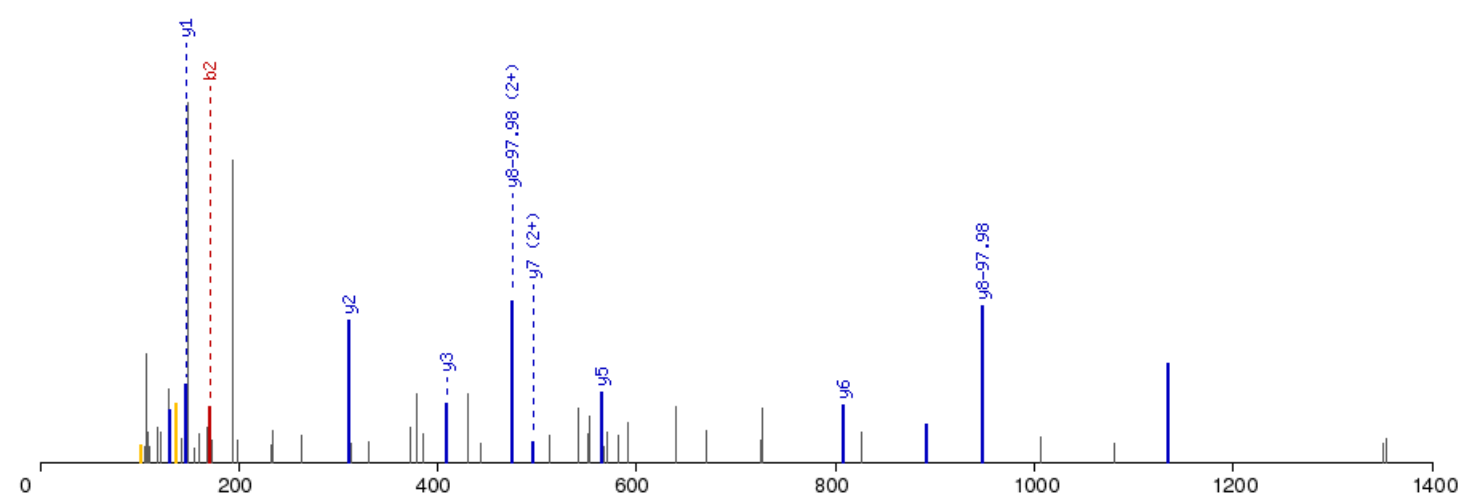
	G	Q	E	Y	L	I	L	E	K	
	1	2	3	4	5	6	7	8	9	
a		158.09								a
b		186.09	315.13	558.16	671.24	784.33	897.41	1026.45		b
b-79.97				478.19	591.28	704.36	817.45	946.49		b-79.97
y		1115.54	987.48	858.44	615.41	502.32	389.24	276.16	147.11	y
y-79.97		1035.57	907.51	778.47						y-79.97
y (2+)		558.27	494.24	429.72	308.21	251.67	195.12	138.58	74.06	y (2+)
y-79.97 (2+)		518.29	454.26	389.74						y-79.97 (2+)
	G	Q	E	Y	L	I	L	E	K	
	9	8	7	6	5	4	3	2	1	

IGEGT(+79.97)Y(+79.97)GVVYK

Identified in MSS769 1 x Phospho (Y) 1 x Phospho (ST)

Charge: 2, Exp. m/z: 673.278, Calc. m/z: 673.282
Data File: Pepmix1_HCD.RAW.-1, Scans: 1417 - 1417

Max Intensity: 6.05e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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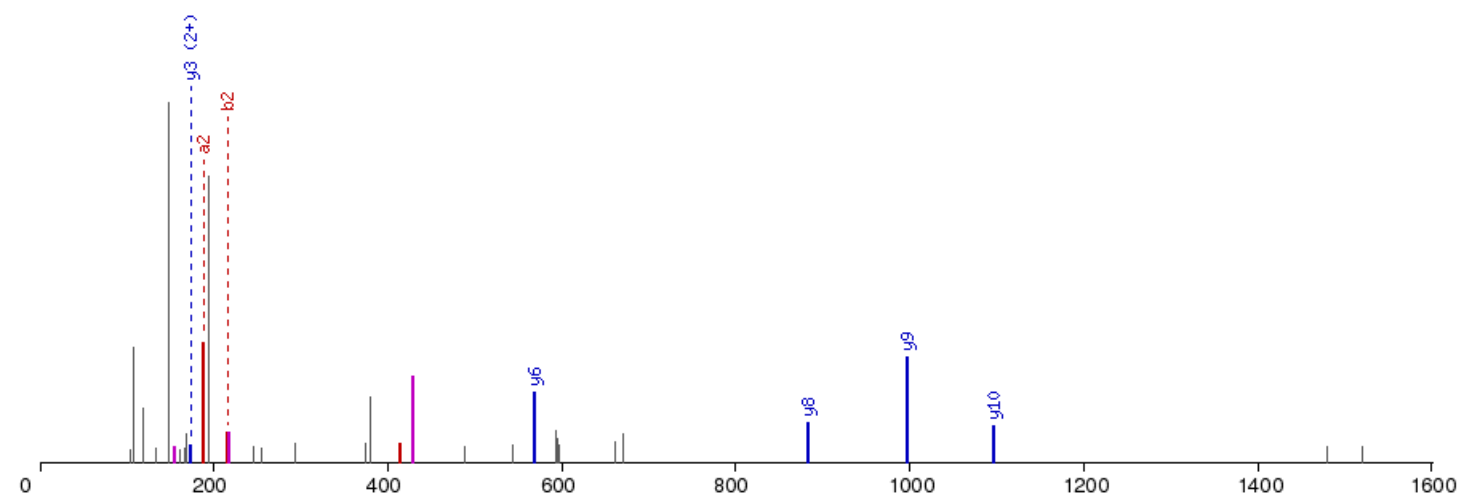
	I	G	E	G	T	Y	G	V	V	Y	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		143.12										a
b		171.11	300.16	357.18	538.19	781.22	838.24	937.31	1036.38	1199.44		b
b-79.97					458.22	701.25	758.28	857.34	956.41	1119.48		b-79.97
b-97.98					440.21	683.24	740.27	839.33	938.40	1101.47		b-97.98
y		1232.46	1175.44	1046.40	989.38	808.36	565.33	508.31	409.24	310.18	147.11	y
y-79.97		1152.50	1095.48	966.43	909.41	728.40						y-79.97
y-97.98		1134.49	1077.47	948.42	891.40							y-97.98
y (2+)		616.74	588.22	523.70	495.19	404.69	283.17	254.66	205.13	155.59	74.06	y (2+)
y-79.97 (2+)		576.75	548.24	483.72	455.21	364.70						y-79.97 (2+)
y-97.98 (2+)		567.75	539.24	474.71	446.20							y-97.98 (2+)
	I	G	E	G	T	Y	G	V	V	Y	K	
	11	10	9	8	7	6	5	4	3	2	1	

TLSEVDY(+79.97)APAGPAR

Identified in MSS769 1 x Phospho (Y)

Charge: 2, Exp. m/z: 763.849, Calc. m/z: 763.847
Data File: Pepmix5_HCD.RAW.-1, Scans: 1278 - 1278

Max Intensity: 6.64e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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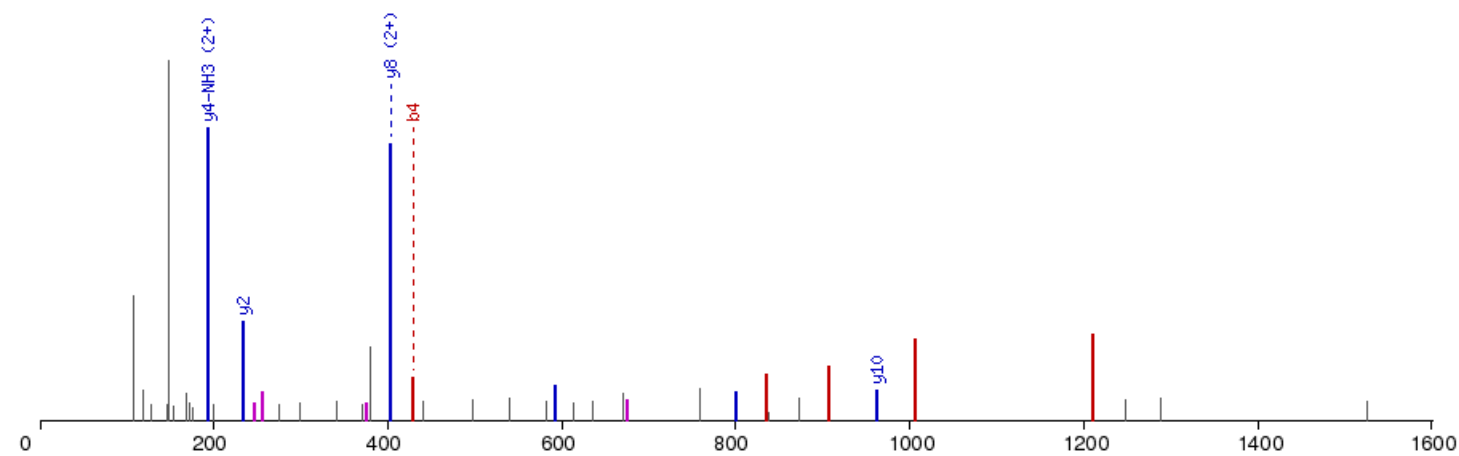
	T	L	S	E	V	D	Y	A	P	A	G	P	A	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		187.14													a
b		215.14	302.17	431.21	530.28	645.31	888.34	959.38	1056.43	1127.47	1184.49	1281.54	1352.58		b
b-79.97							808.37	879.41	976.46	1047.50	1104.52	1201.57	1272.61		b-79.97
y		1425.64	1312.56	1225.52	1096.48	997.41	882.39	639.36	568.32	471.27	400.23	343.21	246.16	175.12	y
y-79.97		1345.67	1232.59	1145.56	1016.52	917.45	802.42								y-79.97
y (2+)		713.32	656.78	613.27	548.74	499.21	441.70	320.18	284.66	236.14	200.62	172.11	123.58	88.06	y (2+)
y-79.97 (2+)		673.34	616.80	573.28	508.76	459.23	401.71								y-79.97 (2+)
	T	L	S	E	V	D	Y	A	P	A	G	P	A	R	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

ILSDVT(+79.97)HSAVFGVPASK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 904.456, Calc. m/z: 904.457
Data File: Pepmix4_HCD.RAW.-1, Scans: 1973 - 1973

Max Intensity: 6.47e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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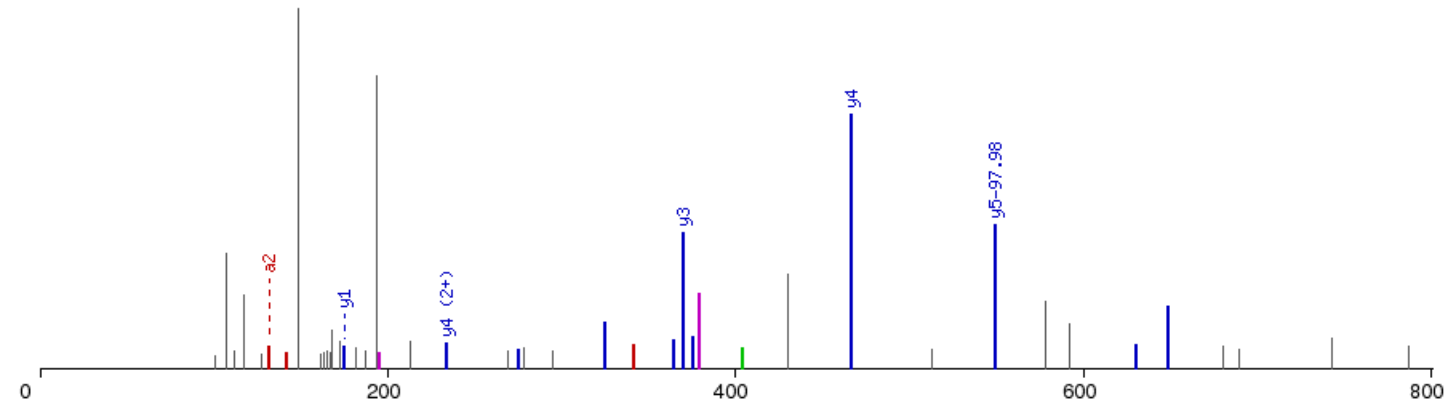
	I	L	S	D	V	T	H	S	A	V	F	G	V	P	A	S	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
a		199.18																a
b		227.18	314.21	429.23	528.30	709.32	846.38	933.41	1004.44	1103.51	1250.58	1307.60	1406.67	1503.72	1574.76	1661.79		b
b-79.97						629.35	766.41	853.44	924.48	1023.55	1170.62	1227.64	1326.71	1423.76	1494.80	1581.83		b-79.97
b-97.98						611.34	748.40	835.43	906.47	1005.54	1152.60	1209.63	1308.69	1405.75	1476.78	1563.82		b-97.98
b (2+)							423.69	467.21	502.73	552.26	625.79	654.31	703.84	752.37	787.88	831.40		b (2+)
b-79.97 (2+)							383.71	427.22	462.74	512.28	585.81	614.32	663.86	712.38	747.90	791.42		b-79.97 (2+)
b-97.98 (2+)							374.70	418.22	453.74	503.27	576.81	605.32	654.85	703.38	738.90	782.41		b-97.98 (2+)
y		1694.81	1581.73	1494.70	1379.67	1280.60	1099.59	962.53	875.50	804.46	705.39	558.32	501.30	402.23	305.18	234.14	147.11	y
y-79.97		1614.85	1501.76	1414.73	1299.71	1200.64												y-79.97
y-97.98		1596.84	1483.75	1396.72	1281.69	1182.63												y-97.98
y (2+)		847.91	791.37	747.85	690.34	640.81	550.30	481.77	438.25	402.73	353.20	279.67	251.16	201.62	153.09	117.58	74.06	y (2+)
y-79.97 (2+)		807.93	751.39	707.87	650.36	600.82												y-79.97 (2+)
y-97.98 (2+)		798.92	742.38	698.86	641.35	591.82												y-97.98 (2+)
	I	L	S	D	V	T	H	S	A	V	F	G	V	P	A	S	K	
	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

GTVT(+79.97)PPPR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 452.718, Calc. m/z: 452.722
Data File: Pepmix3_HCD.RAW.-1, Scans: 722 - 722

Max Intensity: 6.48e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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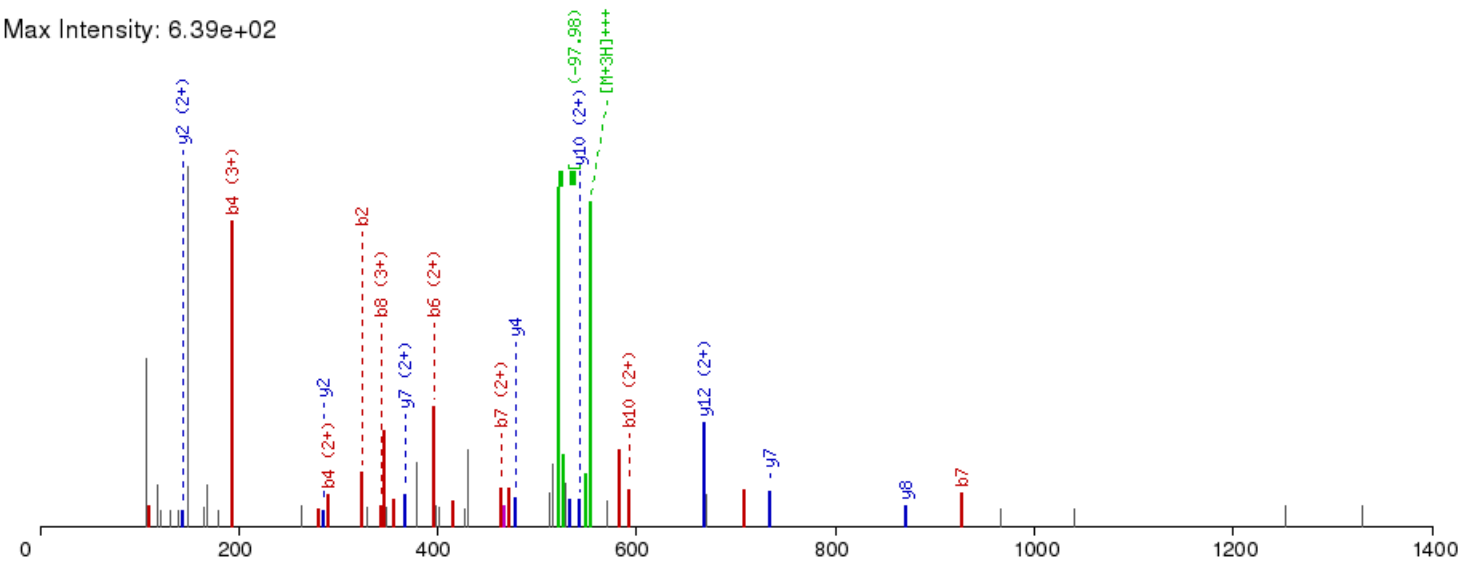
	G	T	V	T	P	P	P	R	
	1	2	3	4	5	6	7	8	
a		131.08							a
b		159.08	258.14	439.16	536.21	633.26	730.32		b
b-79.97				359.19	456.25	553.30	650.35		b-79.97
b-97.98				341.18	438.23	535.29	632.34		b-97.98
y		847.41	746.36	647.29	466.28	369.22	272.17	175.12	y
y-79.97		767.44	666.39	567.32					y-79.97
y-97.98		749.43	648.38	549.31					y-97.98
y (2+)		424.21	373.68	324.15	233.64	185.12	136.59	88.06	y (2+)
y-79.97 (2+)		384.22	333.70	284.17					y-79.97 (2+)
y-97.98 (2+)		375.22	324.70	275.16					y-97.98 (2+)
	G	T	V	T	P	P	P	R	
	8	7	6	5	4	3	2	1	

RS(+79.97)PRPDHPGTPPHK

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 553.602, Calc. m/z: 553.604
Data File: Pepmix4_HCD.RAW.-1, Scans: 513 - 513

Max Intensity: 6.39e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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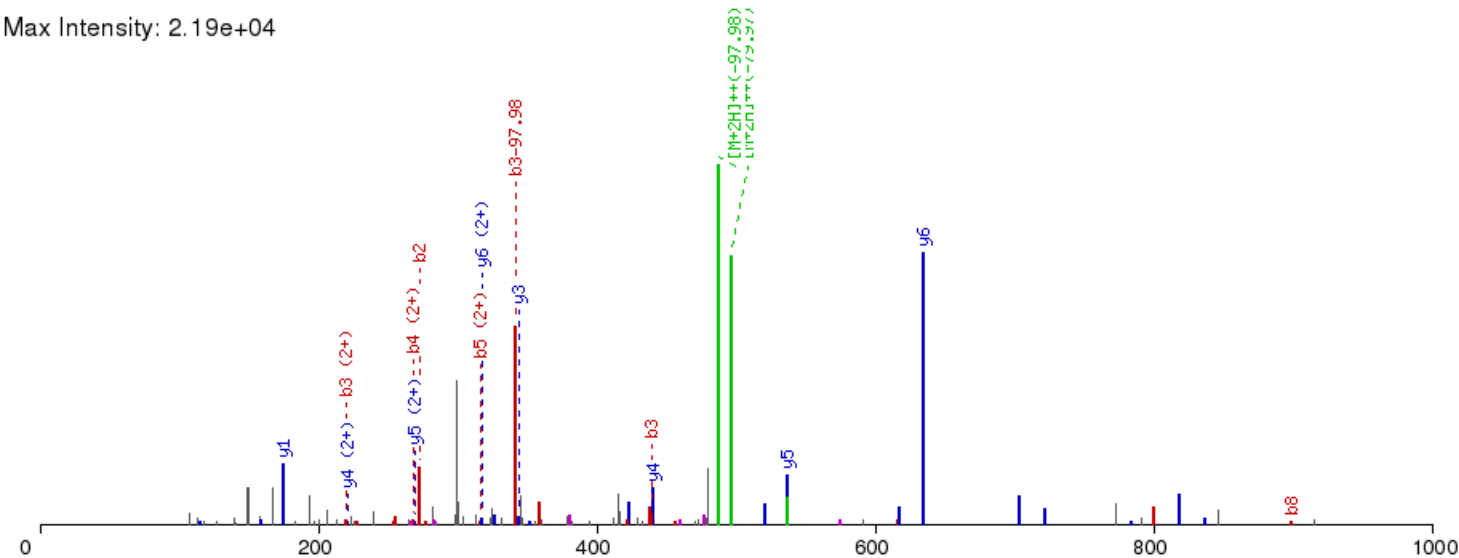
	R	S	P	R	P	D	H	P	G	T	P	P	H	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		296.11													a
a-79.97		216.15													a-79.97
a-97.98		198.13													a-97.98
a (2+)		148.56													a (2+)
a-79.97 (2+)		108.58													a-79.97 (2+)
a-97.98 (2+)		99.57													a-97.98 (2+)
b		324.11	421.16	577.26	674.31	789.34	926.40	1023.45	1080.47	1181.52	1278.57	1375.63	1512.69		b
b-79.97		244.14	341.19	497.29	594.35	709.37	846.43	943.49	1000.51	1101.55	1198.61	1295.66	1432.72		b-79.97
b-97.98		226.13	323.18	479.28	576.34	691.36	828.42	925.48	982.50	1083.54	1180.60	1277.65	1414.71		b-97.98
b (2+)		162.56	211.08	289.13	337.66	395.17	463.70	512.23	540.74	591.26	639.79	688.32	756.85		b (2+)
b-79.97 (2+)		122.57	171.10	249.15	297.68	355.19	423.72	472.25	500.76	551.28	599.81	648.33	716.86		b-79.97 (2+)
b-97.98 (2+)		113.57	162.09	240.15	288.67	346.19	414.71	463.24	491.75	542.28	590.80	639.33	707.86		b-97.98 (2+)
b (3+)				193.09	225.44	263.78	309.47	341.82	360.83	394.51	426.86	459.21	504.90		b (3+)
b-79.97 (3+)				166.44	198.79	237.13	282.82	315.17	334.17	367.86	400.21	432.56	478.24		b-79.97 (3+)
b-97.98 (3+)				160.43	192.78	231.13	276.81	309.16	328.17	361.85	394.20	426.55	472.24		b-97.98 (3+)
y		1502.69	1335.69	1238.64	1082.54	985.49	870.46	733.40	636.35	579.32	478.28	381.22	284.17	147.11	y
y-79.97		1422.72													y-79.97
y-97.98		1404.71													y-97.98
y (2+)		751.85	668.35	619.82	541.77	493.25	435.73	367.20	318.68	290.17	239.64	191.12	142.59	74.06	y (2+)
y-79.97 (2+)		711.87													y-79.97 (2+)
y-97.98 (2+)		702.86													y-97.98 (2+)
y (3+)		501.57	445.90	413.55	361.52	329.17	290.82	245.14	212.79	193.78	160.10	127.75	95.40		y (3+)
y-79.97 (3+)		474.91													y-79.97 (3+)
y-97.98 (3+)		468.91													y-97.98 (3+)
	R	S	P	R	P	D	H	P	G	T	P	P	H	K	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

RDS(+79.97)PPPPAR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 536.750, Calc. m/z: 536.752
Data File: Pepmix2_HCD.RAW.-1, Scans: 606 - 606

Max Intensity: 2.19e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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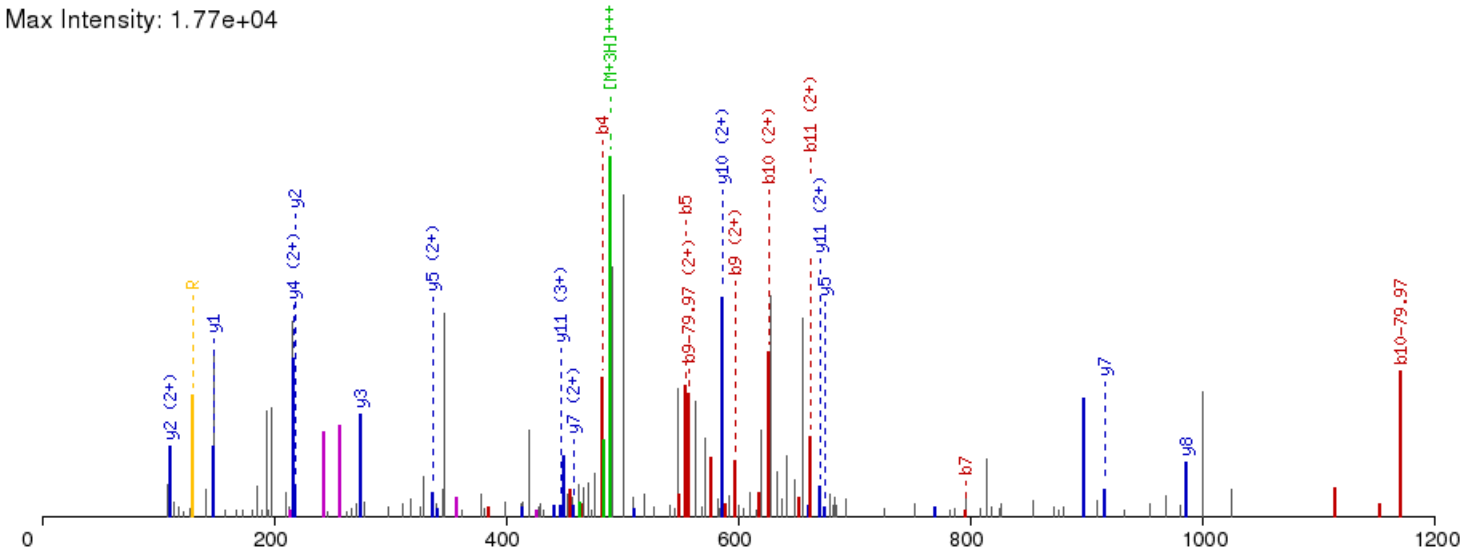
	R	D	S	P	P	P	P	A	R	
	1	2	3	4	5	6	7	8	9	
a		244.14								a
a (2+)		122.57								a (2+)
b		272.14	439.13	536.19	633.24	730.29	827.34	898.38		b
b-79.97			359.17	456.22	553.27	650.33	747.38	818.42		b-79.97
b-97.98			341.16	438.21	535.26	632.32	729.37	800.40		b-97.98
b (2+)		136.57	220.07	268.60	317.12	365.65	414.18	449.69		b (2+)
b-79.97 (2+)			180.09	228.61	277.14	325.67	374.19	409.71		b-79.97 (2+)
b-97.98 (2+)			171.08	219.61	268.13	316.66	365.19	400.71		b-97.98 (2+)
y		916.39	801.37	634.37	537.31	440.26	343.21	246.16	175.12	y
y-79.97		836.43	721.40							y-79.97
y-97.98		818.42	703.39							y-97.98
y (2+)		458.70	401.19	317.69	269.16	220.63	172.11	123.58	88.06	y (2+)
y-79.97 (2+)		418.72	361.20							y-79.97 (2+)
y-97.98 (2+)		409.71	352.20							y-97.98 (2+)
	R	D	S	P	P	P	P	A	R	
	9	8	7	6	5	4	3	2	1	

MS(+79.97)ALAQLY(+79.97)RGAK

Identified in MSS769 1 x Phospho (Y) 1 x Phospho (ST)

Charge: 3, Exp. m/z: 490.220, Calc. m/z: 490.221
Data File: Pepmix2_HCD.RAW.-1, Scans: 649 - 649

Max Intensity: 1.77e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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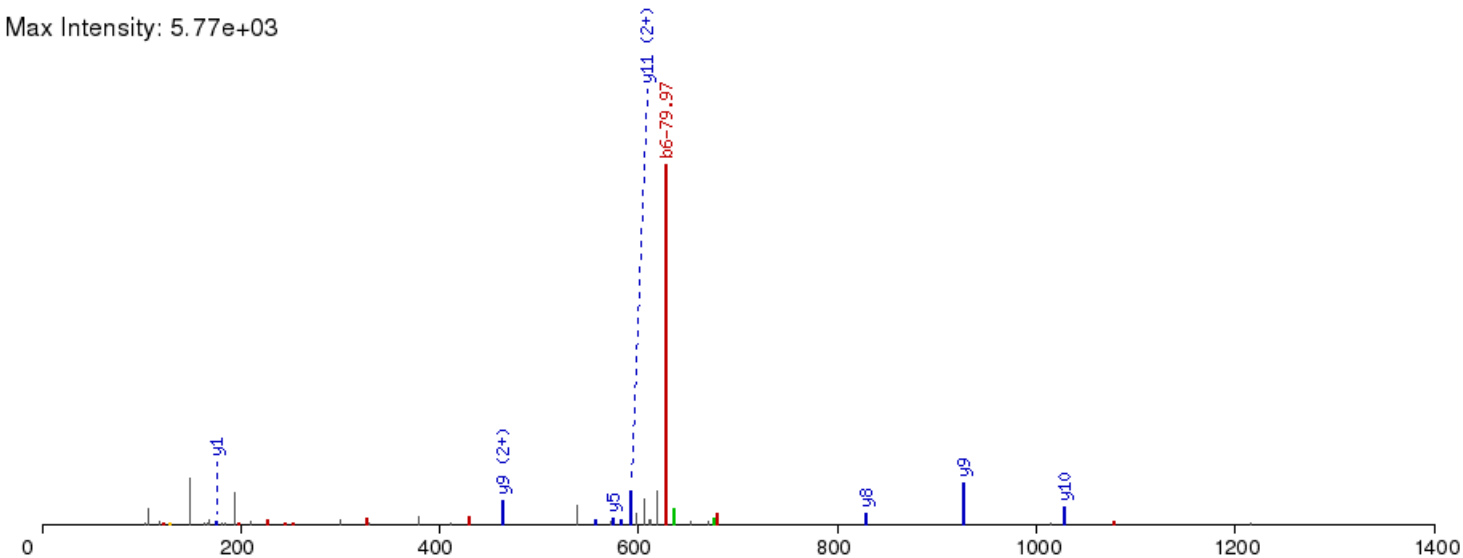
	M	S	A	L	A	Q	L	Y	R	G	A	K	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		271.05											a
a-79.97		191.08											a-79.97
a-97.98		173.07											a-97.98
b		299.05	370.08	483.17	554.20	682.26	795.35	1038.38	1194.48	1251.50	1322.54		b
b-79.97		219.08	290.12	403.20	474.24	602.30	715.38	958.41	1114.51	1171.53	1242.57		b-79.97
b-97.98		201.07	272.11	385.19	456.23	584.29	697.37	940.40	1096.50	1153.52	1224.56		b-97.98
b (2+)									597.74	626.25	661.77		b (2+)
b-79.97 (2+)									557.76	586.27	621.79		b-79.97 (2+)
b-97.98 (2+)									548.75	577.26	612.78		b-97.98 (2+)
y		1337.60	1170.60	1099.57	986.48	915.44	787.39	674.30	431.27	275.17	218.15	147.11	y
y-79.97		1257.64	1090.64	1019.60	906.52	835.48	707.42	594.34					y-79.97
y-97.98		1239.62											y-97.98
y (2+)		669.30	585.81	550.29	493.74	458.23	394.20	337.65	216.14	138.09	109.58	74.06	y (2+)
y-79.97 (2+)		629.32	545.82	510.30	453.76	418.24	354.21	297.67					y-79.97 (2+)
y-97.98 (2+)		620.32											y-97.98 (2+)
y (3+)		446.54	390.87	367.19	329.50	305.82	263.13	225.44	144.43				y (3+)
y-79.97 (3+)		419.88	364.22	340.54	302.84	279.16	236.48	198.78					y-79.97 (3+)
y-97.98 (3+)		413.88											y-97.98 (3+)
	M	S	A	L	A	Q	L	Y	R	G	A	K	
	12	11	10	9	8	7	6	5	4	3	2	1	

S(+79.97)RTPPSAPSQSR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 675.812, Calc. m/z: 675.817
Data File: Pepmix4_HCD.RAW.-1, Scans: 691 - 691

Max Intensity: 5.77e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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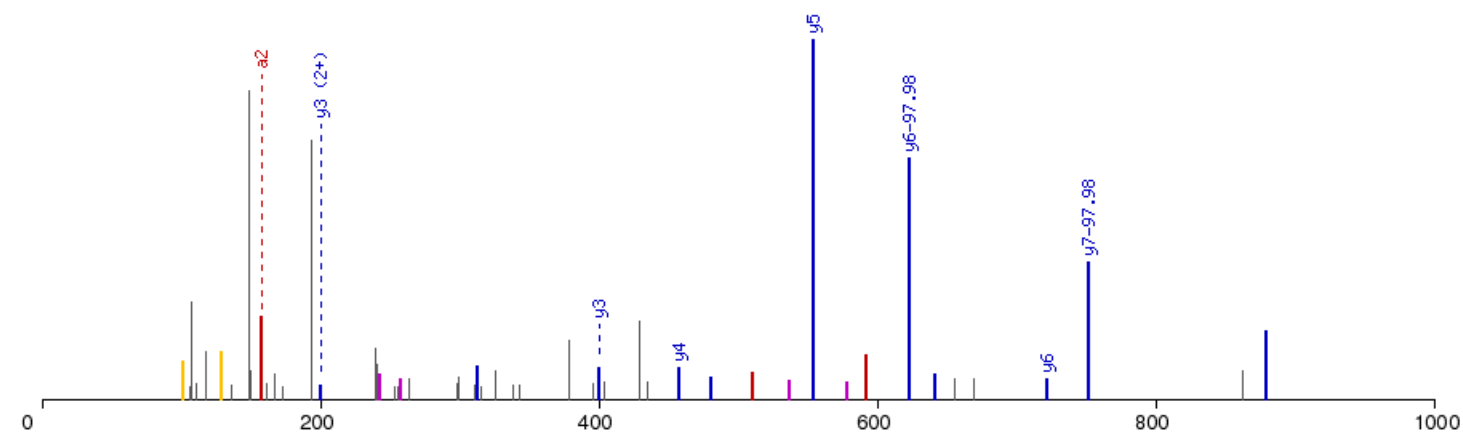
	S	R	T	P	P	S	A	P	S	Q	S	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		296.11											a
a-79.97		216.15											a-79.97
a-97.98		198.13											a-97.98
a (2+)		148.56											a (2+)
a-79.97 (2+)		108.58											a-79.97 (2+)
a-97.98 (2+)		99.57											a-97.98 (2+)
b		324.11	425.15	522.21	619.26	706.29	777.33	874.38	961.41	1089.47	1176.50		b
b-79.97		244.14	345.19	442.24	539.29	626.33	697.36	794.42	881.45	1009.51	1096.54		b-79.97
b-97.98		226.13	327.18	424.23	521.28	608.32	679.35	776.40	863.44	991.50	1078.53		b-97.98
b (2+)		162.56	213.08	261.61	310.13	353.65	389.17	437.69	481.21	545.24	588.76		b (2+)
b-79.97 (2+)		122.57	173.10	221.62	270.15	313.67	349.19	397.71	441.23	505.26	548.77		b-79.97 (2+)
b-97.98 (2+)		113.57	164.09	212.62	261.15	304.66	340.18	388.71	432.22	496.25	539.77		b-97.98 (2+)
y		1183.62	1027.52	926.47	829.42	732.36	645.33	574.29	477.24	390.21	262.15	175.12	y
y (2+)		592.31	514.26	463.74	415.21	366.69	323.17	287.65	239.12	195.61	131.58	88.06	y (2+)
	S	R	T	P	P	S	A	P	S	Q	S	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

ALQKS(+79.97)PGPQR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 581.293, Calc. m/z: 581.297
Data File: Pepmix3_HCD.RAW.-1, Scans: 610 - 610

Max Intensity: 7.42e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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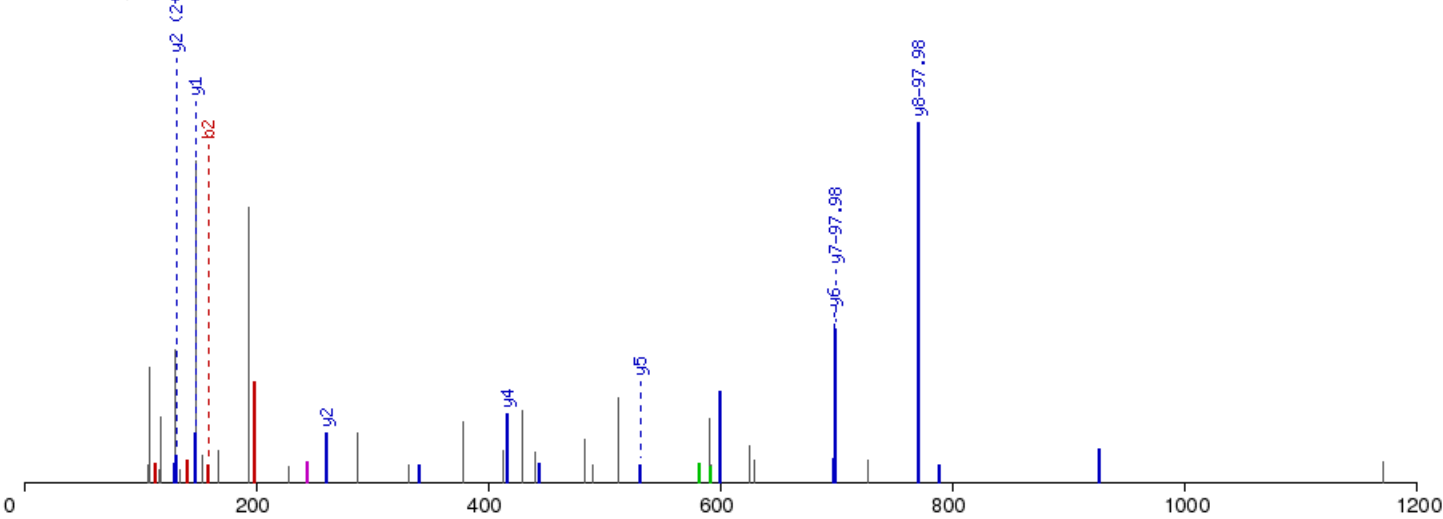
	A	L	Q	K	S	P	G	P	Q	R	
	1	2	3	4	5	6	7	8	9	10	
a		157.13									a
b		185.13	313.19	441.28	608.28	705.33	762.35	859.41	987.47		b
b-79.97					528.31	625.37	682.39	779.44	907.50		b-79.97
b-97.98					510.30	607.36	664.38	761.43	889.49		b-97.98
b (2+)				221.14	304.64	353.17	381.68	430.21	494.24		b (2+)
b-79.97 (2+)					264.66	313.19	341.70	390.22	454.25		b-79.97 (2+)
b-97.98 (2+)					255.66	304.18	332.69	381.22	445.25		b-97.98 (2+)
y		1090.54	977.46	849.40	721.30	554.30	457.25	400.23	303.18	175.12	y
y-79.97		1010.57	897.49	769.43	641.34						y-79.97
y-97.98		992.56	879.48	751.42	623.33						y-97.98
y (2+)		545.77	489.23	425.20	361.16	277.66	229.13	200.62	152.09	88.06	y (2+)
y-79.97 (2+)		505.79	449.25	385.22	321.17						y-79.97 (2+)
y-97.98 (2+)		496.79	440.24	376.21	312.17						y-97.98 (2+)
	A	L	Q	K	S	P	G	P	Q	R	
	10	9	8	7	6	5	4	3	2	1	

ASGVAVS(+79.97)DGVIK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 591.792, Calc. m/z: 591.797
Data File: Pepmix1_HCD.RAW.-1, Scans: 1388 - 1388

Max Intensity: 7.25e+02



Sequence Ladder Ions

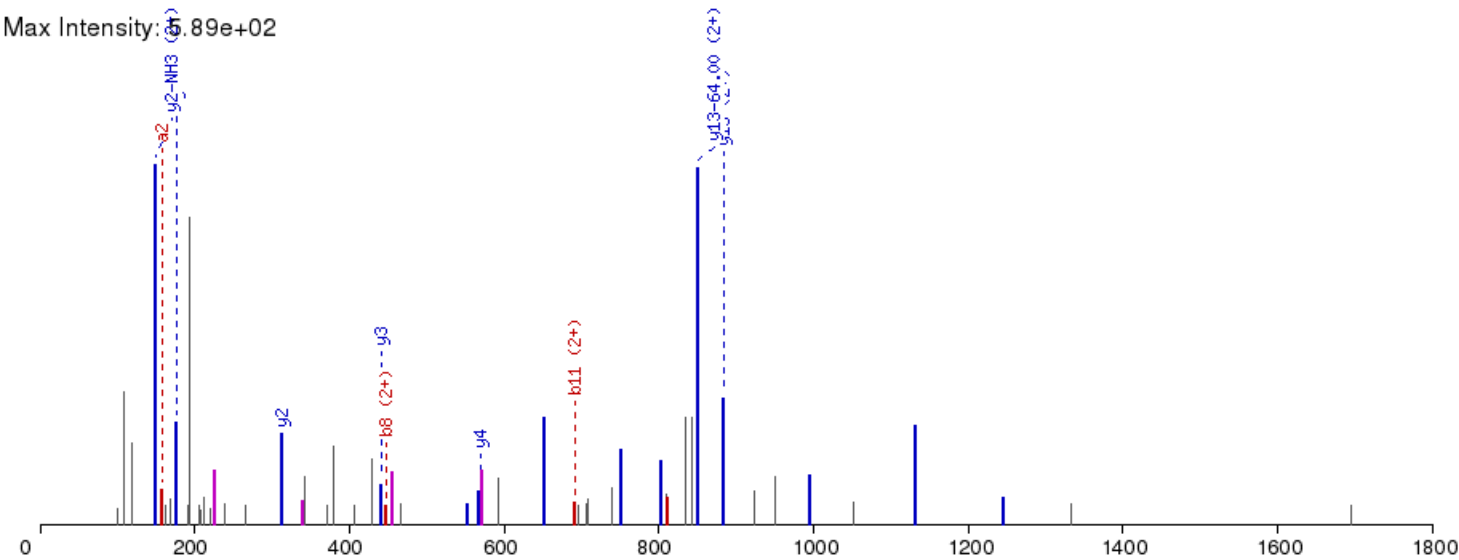
Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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	A	S	G	V	A	V	S	D	G	V	I	K	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		131.08											a
b		159.08	216.10	315.17	386.20	485.27	652.27	767.30	824.32	923.39	1036.47		b
b-79.97							572.30	687.33	744.35	843.42	956.50		b-79.97
b-97.98							554.29	669.32	726.34	825.41	938.49		b-97.98
y		1111.54	1024.51	967.49	868.42	797.38	698.31	531.31	416.29	359.27	260.20	147.11	y
y-79.97		1031.57	944.54	887.52	788.45	717.41	618.35						y-79.97
y-97.98		1013.56	926.53	869.51	770.44	699.40	600.34						y-97.98
y (2+)		556.27	512.76	484.25	434.71	399.19	349.66	266.16	208.65	180.14	130.60	74.06	y (2+)
y-79.97 (2+)		516.29	472.77	444.26	394.73	359.21	309.68						y-79.97 (2+)
y-97.98 (2+)		507.28	463.77	435.26	385.72	350.21	300.67						y-97.98 (2+)
	A	S	G	V	A	V	S	D	G	V	I	K	
	12	11	10	9	8	7	6	5	4	3	2	1	

ALPQNDDHY(+79.97)VM(+15.99)QEHR

Identified in MSS769 1 x Phospho (Y) 1 x Oxidation (M)

Charge: 2, Exp. m/z: 974.906, Calc. m/z: 974.907
Data File: Pepmix5_HCD.RAW.-1, Scans: 924 - 924



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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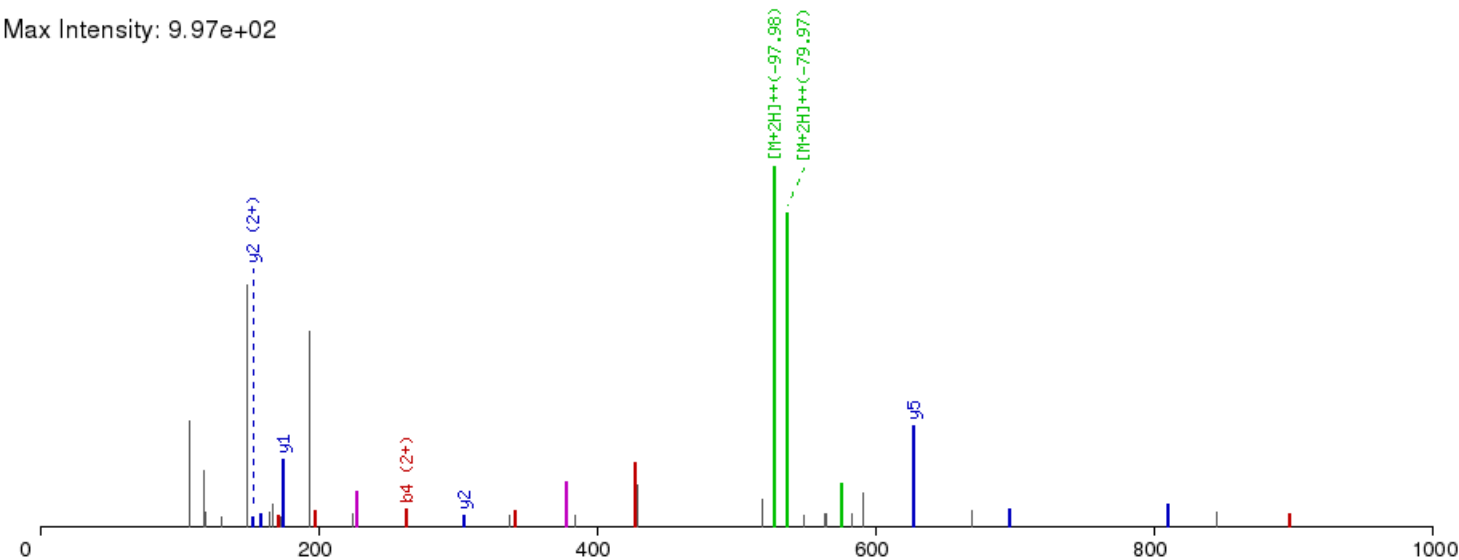
	A	L	P	Q	N	D	D	H	Y	V	M	Q	E	H	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
a		157.13														a
b		185.13	282.18	410.24	524.28	639.31	754.34	891.40	1134.43	1233.49	1380.53	1508.59	1637.63	1774.69		b
b-15.99											1364.53	1492.59	1621.64	1758.69		b-15.99
b-64.00											1316.53	1444.59	1573.63	1710.69		b-64.00
b-79.97									1054.46	1153.53	1300.56	1428.62	1557.66	1694.72		b-79.97
b (2+)								446.20	567.72	617.25	690.77	754.80	819.32	887.85		b (2+)
b-15.99 (2+)											682.77	746.80	811.32	879.85		b-15.99 (2+)
b-64.00 (2+)											658.77	722.80	787.32	855.85		b-64.00 (2+)
b-79.97 (2+)									527.73	577.27	650.78	714.81	779.34	847.87		b-79.97 (2+)
y		1877.76	1764.68	1667.63	1539.57	1425.53	1310.50	1195.47	1058.41	815.38	716.31	569.28	441.22	312.18	175.12	y
y-15.99		1861.77	1748.68	1651.63	1523.57	1409.53	1294.50	1179.48	1042.42	799.39	700.32					y-15.99
y-64.00		1813.77	1700.68	1603.63	1475.57	1361.53	1246.50	1131.47	994.41	751.38	652.32					y-64.00
y-79.97		1797.80	1684.71	1587.66	1459.60	1345.56	1230.53	1115.51	978.45							y-79.97
y (2+)		939.39	882.84	834.32	770.29	713.27	655.75	598.24	529.71	408.20	358.66	285.14	221.11	156.59	88.06	y (2+)
y-15.99 (2+)		931.39	874.85	826.32	762.29	705.27	647.76	590.24	521.71	400.20	350.66					y-15.99 (2+)
y-64.00 (2+)		907.39	850.84	802.32	738.29	681.27	623.75	566.24	497.71	376.20	326.66					y-64.00 (2+)
y-79.97 (2+)		899.40	842.86	794.33	730.30	673.28	615.77	558.26	489.73							y-79.97 (2+)
	A	L	P	Q	N	D	D	H	Y	V	M	Q	E	H	R	
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

SRNS(+79.97)PLLER

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 576.283, Calc. m/z: 576.287
Data File: Pepmix2_HCD.RAW.-1, Scans: 1065 - 1065

Max Intensity: 9.97e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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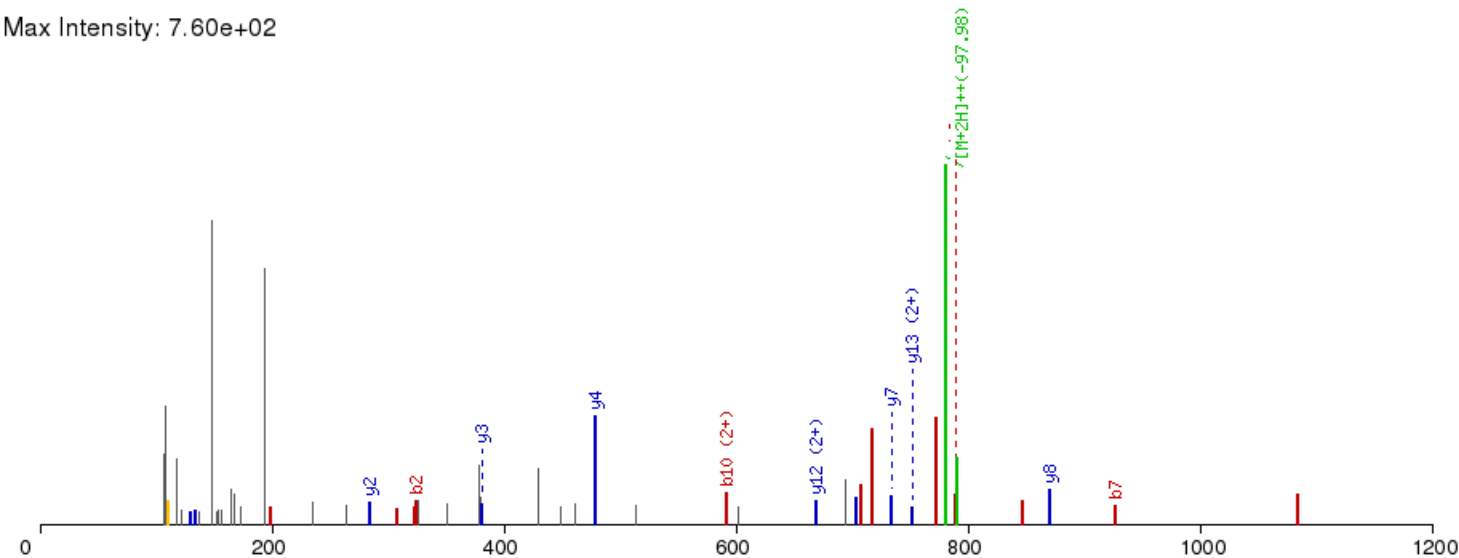
	S	R	N	S	P	L	L	E	R	
	1	2	3	4	5	6	7	8	9	
a		216.15								a
a (2+)		108.58								a (2+)
b		244.14	358.18	525.18	622.23	735.32	848.40	977.45		b
b-79.97				445.22	542.27	655.35	768.44	897.48		b-79.97
b-97.98				427.20	524.26	637.34	750.43	879.47		b-97.98
b (2+)		122.57	179.60	263.09	311.62	368.16	424.70	489.23		b (2+)
b-79.97 (2+)				223.11	271.64	328.18	384.72	449.24		b-79.97 (2+)
b-97.98 (2+)				214.11	262.63	319.17	375.72	440.24		b-97.98 (2+)
y		1064.52	908.42	794.38	627.38	530.33	417.25	304.16	175.12	y
y-79.97		984.56	828.46	714.41						y-79.97
y-97.98		966.55	810.45	696.40						y-97.98
y (2+)		532.77	454.72	397.69	314.19	265.67	209.13	152.58	88.06	y (2+)
y-79.97 (2+)		492.78	414.73	357.71						y-79.97 (2+)
y-97.98 (2+)		483.78	405.73	348.71						y-97.98 (2+)
	S	R	N	S	P	L	L	E	R	
	9	8	7	6	5	4	3	2	1	

RS(+79.97)PRPDHPGTPPHK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 829.901, Calc. m/z: 829.897
Data File: Pepmix4_HCD.RAW.-1, Scans: 522 - 522

Max Intensity: 7.60e+02



Sequence Ladder Ions

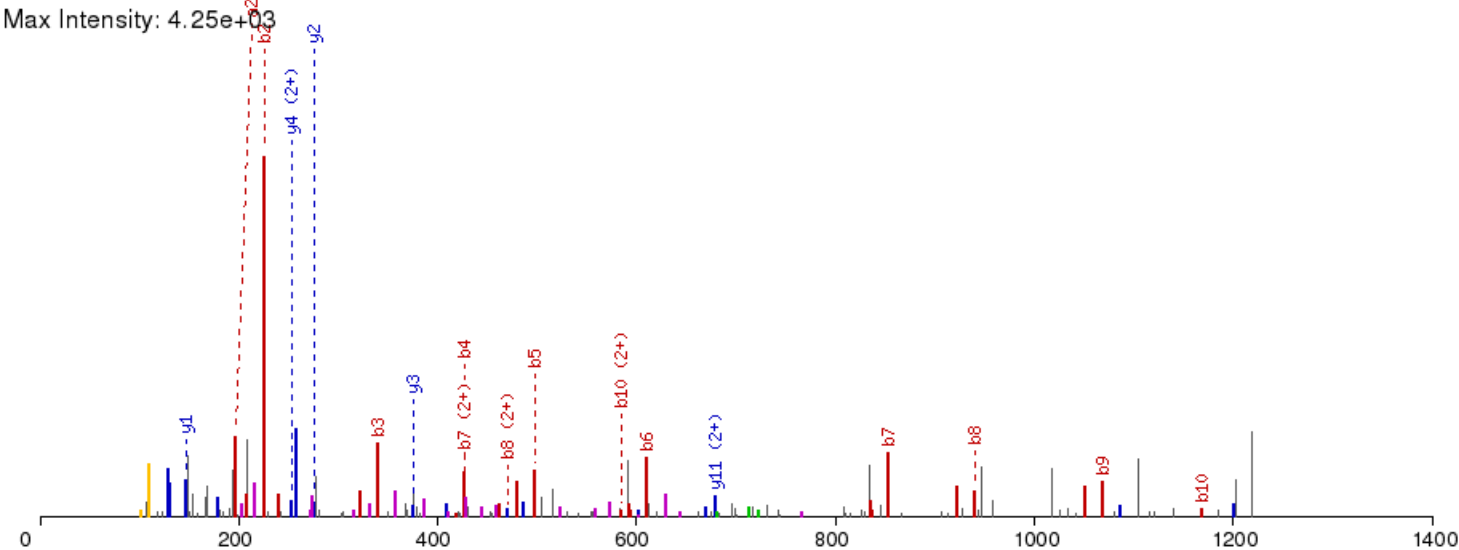
Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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	R	S	P	R	P	D	H	P	G	T	P	P	H	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		296.11													a
a-79.97		216.15													a-79.97
a-97.98		198.13													a-97.98
a (2+)		148.56													a (2+)
a-79.97 (2+)		108.58													a-79.97 (2+)
a-97.98 (2+)		99.57													a-97.98 (2+)
b		324.11	421.16	577.26	674.31	789.34	926.40	1023.45	1080.47	1181.52	1278.57	1375.63	1512.69		b
b-79.97		244.14	341.19	497.29	594.35	709.37	846.43	943.49	1000.51	1101.55	1198.61	1295.66	1432.72		b-79.97
b-97.98		226.13	323.18	479.28	576.34	691.36	828.42	925.48	982.50	1083.54	1180.60	1277.65	1414.71		b-97.98
b (2+)		162.56	211.08	289.13	337.66	395.17	463.70	512.23	540.74	591.26	639.79	688.32	756.85		b (2+)
b-79.97 (2+)		122.57	171.10	249.15	297.68	355.19	423.72	472.25	500.76	551.28	599.81	648.33	716.86		b-79.97 (2+)
b-97.98 (2+)		113.57	162.09	240.15	288.67	346.19	414.71	463.24	491.75	542.28	590.80	639.33	707.86		b-97.98 (2+)
y		1502.69	1335.69	1238.64	1082.54	985.49	870.46	733.40	636.35	579.32	478.28	381.22	284.17	147.11	y
y-79.97		1422.72													y-79.97
y-97.98		1404.71													y-97.98
y (2+)		751.85	668.35	619.82	541.77	493.25	435.73	367.20	318.68	290.17	239.64	191.12	142.59	74.06	y (2+)
y-79.97 (2+)		711.87													y-79.97 (2+)
y-97.98 (2+)		702.86													y-97.98 (2+)
	R	S	P	R	P	D	H	P	G	T	P	P	H	K	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

SHNSALY(+79.97)SQVQK

Identified in MSS769 1 x Phospho (Y)

Charge: 2, Exp. m/z: 721.820, Calc. m/z: 721.332
Data File: Pepmix1_HCD.RAW.-1, Scans: 962 - 962



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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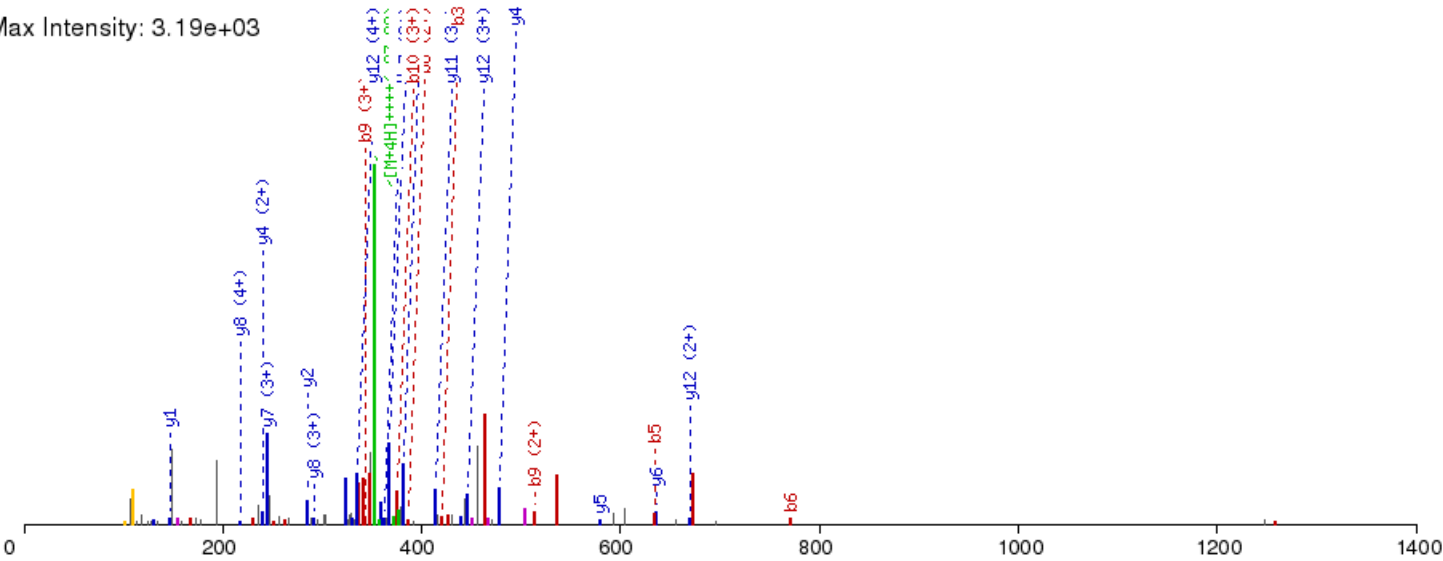
	S	H	N	S	A	L	Y	S	Q	V	Q	K	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		197.10											a
a (2+)		99.06											a (2+)
b		225.10	339.14	426.17	497.21	610.29	853.32	940.36	1068.41	1167.48	1295.54		b
b-79.97							773.36	860.39	988.45	1087.52	1215.58		b-79.97
b (2+)		113.05	170.07	213.59	249.11	305.65	427.17	470.68	534.71	584.25	648.27		b (2+)
b-79.97 (2+)							387.18	430.70	494.73	544.26	608.29		b-79.97 (2+)
y		1354.62	1217.56	1103.51	1016.48	945.44	832.36	589.33	502.30	374.24	275.17	147.11	y
y-79.97		1274.65	1137.59	1023.55	936.51	865.48	752.39						y-79.97
y (2+)		677.81	609.28	552.26	508.74	473.23	416.68	295.17	251.65	187.62	138.09	74.06	y (2+)
y-79.97 (2+)		637.83	569.30	512.28	468.76	433.24	376.70						y-79.97 (2+)
	S	H	N	S	A	L	Y	S	Q	V	Q	K	
	12	11	10	9	8	7	6	5	4	3	2	1	

S(+79.97)PRPDHPGTPPHK

Identified in MSS769 1 x Phospho (ST)

Charge: 4, Exp. m/z: 376.428, Calc. m/z: 376.427
Data File: Pepmix4_HCD.RAW.-1, Scans: 565 - 565

Max Intensity: 3.19e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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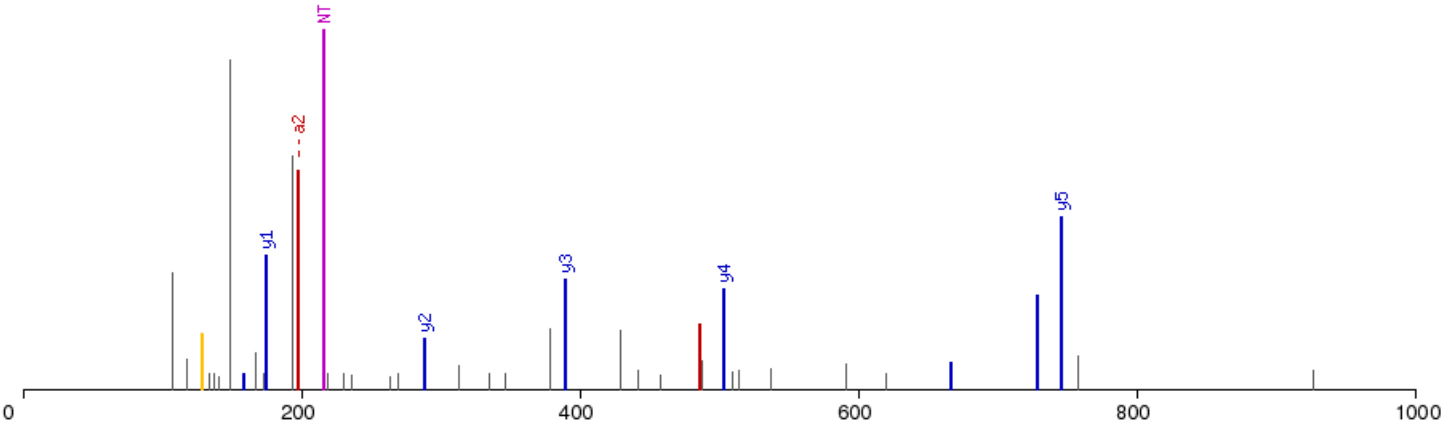
	S	P	R	P	D	H	P	G	T	P	P	H	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	
a		237.06												a
a-79.97		157.10												a-79.97
a-97.98		139.09												a-97.98
b		265.06	421.16	518.21	633.24	770.30	867.35	924.37	1025.42	1122.47	1219.53	1356.58		b
b-79.97		185.09	341.19	438.25	553.27	690.33	787.38	844.41	945.45	1042.51	1139.56	1276.62		b-79.97
b-97.98		167.08	323.18	420.24	535.26	672.32	769.37	826.40	927.44	1024.50	1121.55	1258.61		b-97.98
b (2+)			211.08	259.61	317.12	385.65	434.18	462.69	513.21	561.74	610.27	678.80		b (2+)
b-79.97 (2+)			171.10	219.63	277.14	345.67	394.20	422.71	473.23	521.76	570.28	638.81		b-79.97 (2+)
b-97.98 (2+)			162.09	210.62	268.13	336.66	385.19	413.70	464.23	512.75	561.28	629.81		b-97.98 (2+)
b (3+)						257.44	289.79	308.80	342.48	374.83	407.18	452.87		b (3+)
b-79.97 (3+)						230.78	263.13	282.14	315.82	348.17	380.52	426.21		b-79.97 (3+)
b-97.98 (3+)						224.78	257.13	276.14	309.82	342.17	374.52	420.21		b-97.98 (3+)
b (4+)												339.90		b (4+)
b-79.97 (4+)												319.91		b-79.97 (4+)
b-97.98 (4+)												315.41		b-97.98 (4+)
y		1335.69	1238.64	1082.54	985.49	870.46	733.40	636.35	579.32	478.28	381.22	284.17	147.11	y
y (2+)		668.35	619.82	541.77	493.25	435.73	367.20	318.68	290.17	239.64	191.12	142.59	74.06	y (2+)
y (3+)		445.90	413.55	361.52	329.17	290.82	245.14	212.79	193.78	160.10	127.75	95.40		y (3+)
y (4+)		334.68	310.42	271.39	247.13	218.37								y (4+)
	S	P	R	P	D	H	P	G	T	P	P	H	K	
	13	12	11	10	9	8	7	6	5	4	3	2	1	

E(+18.01)IY(+79.97)NTIR

Identified in MSS769 1 x Phospho (Y) 1 x Glu->pyro-Glu (N-term E)

Charge: 2, Exp. m/z: 485.723, Calc. m/z: 485.723
Data File: Pepmix3_HCD.RAW.-1, Scans: 1418 - 1418

Max Intensity: 6.97e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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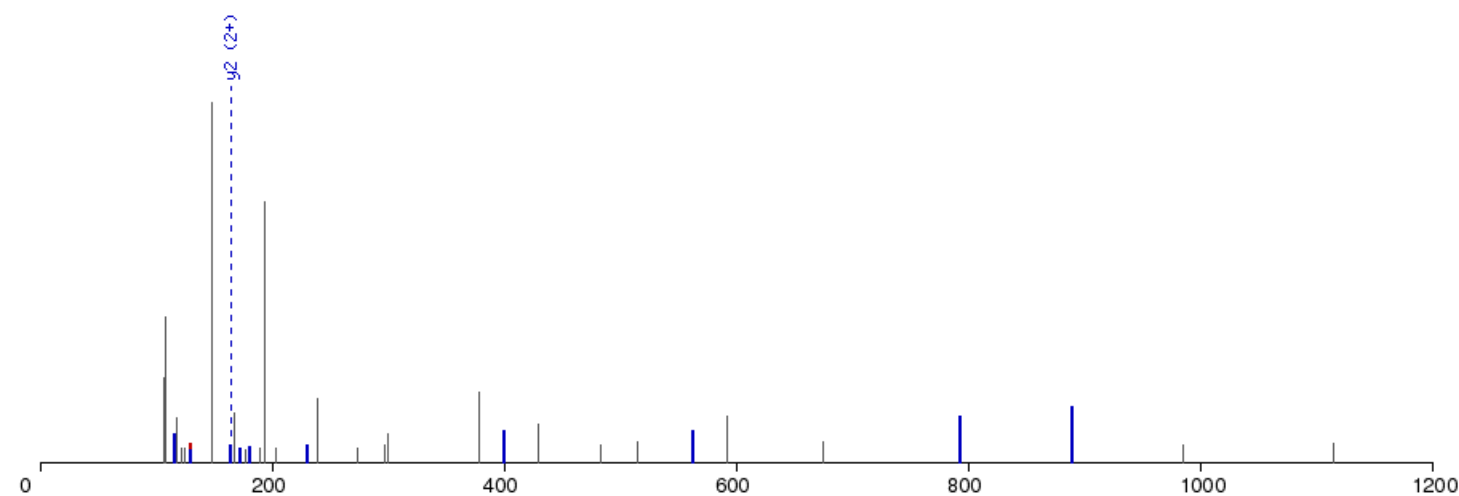
	E	I	Y	N	T	I	R	
	1	2	3	4	5	6	7	
a		197.13						a
b		225.12	468.15	582.20	683.24	796.33		b
b-79.97			388.19	502.23	603.28	716.36		b-79.97
y		859.41	746.32	503.29	389.25	288.20	175.12	y
y-79.97		779.44	666.36					y-79.97
y (2+)		430.21	373.67	252.15	195.13	144.61	88.06	y (2+)
y-79.97 (2+)		390.22	333.68					y-79.97 (2+)
	E	I	Y	N	T	I	R	
	7	6	5	4	3	2	1	

SSSPTQYGLT(+79.97)K

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 624.780, Calc. m/z: 624.782
Data File: Pepmix3_HCD.RAW.-1, Scans: 1064 - 1064

Max Intensity: 6.66e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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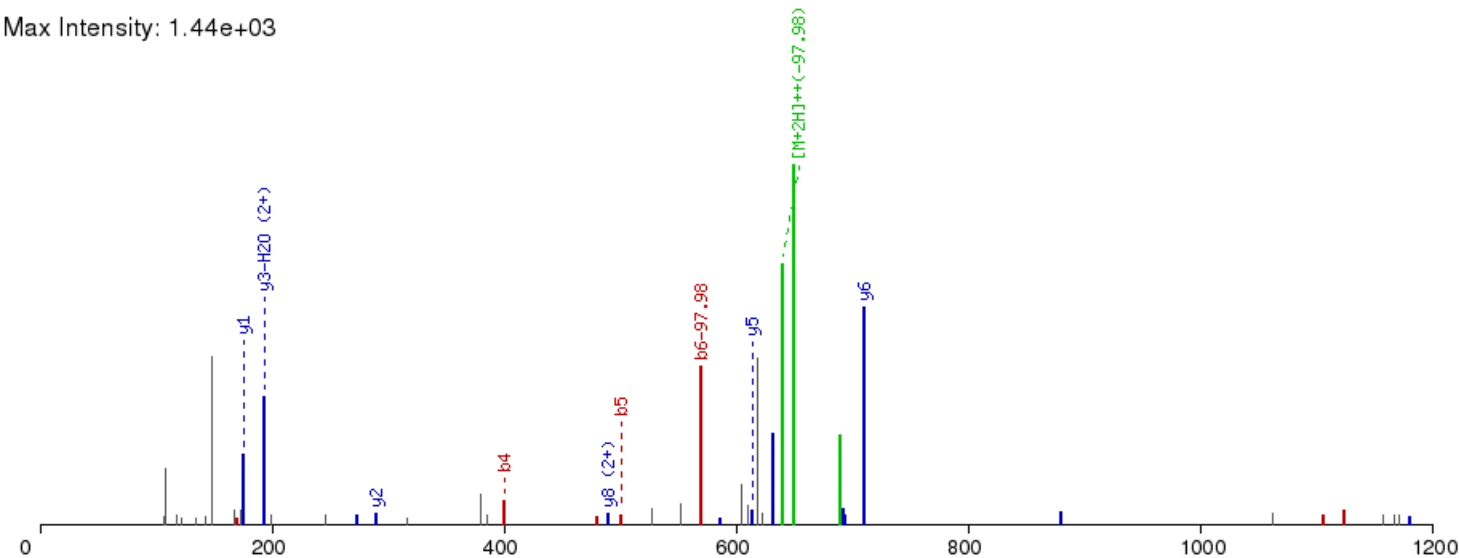
	S	S	S	P	T	Q	Y	G	L	T	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		147.08										a
b		175.07	262.10	359.16	460.20	588.26	751.33	808.35	921.43	1102.45		b
b-79.97										1022.48		b-79.97
b-97.98										1004.47		b-97.98
y		1161.52	1074.49	987.45	890.40	789.35	661.30	498.23	441.21	328.13	147.11	y
y-79.97		1081.55	994.52	907.49	810.44	709.39	581.33	418.27	361.24	248.16		y-79.97
y-97.98		1063.54	976.51	889.48	792.43	691.38	563.32	400.26	343.23	230.15		y-97.98
y (2+)		581.26	537.75	494.23	445.70	395.18	331.15	249.62	221.11	164.57	74.06	y (2+)
y-79.97 (2+)		541.28	497.76	454.25	405.72	355.20	291.17	209.64	181.13	124.58		y-79.97 (2+)
y-97.98 (2+)		532.27	488.76	445.24	396.72	346.19	282.16	200.63	172.12	115.58		y-97.98 (2+)
	S	S	S	P	T	Q	Y	G	L	T	K	
	11	10	9	8	7	6	5	4	3	2	1	

VSGRTS(+79.97)PPLLDR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 689.349, Calc. m/z: 689.352
Data File: Pepmix5_HCD.RAW.-1, Scans: 1186 - 1186

Max Intensity: 1.44e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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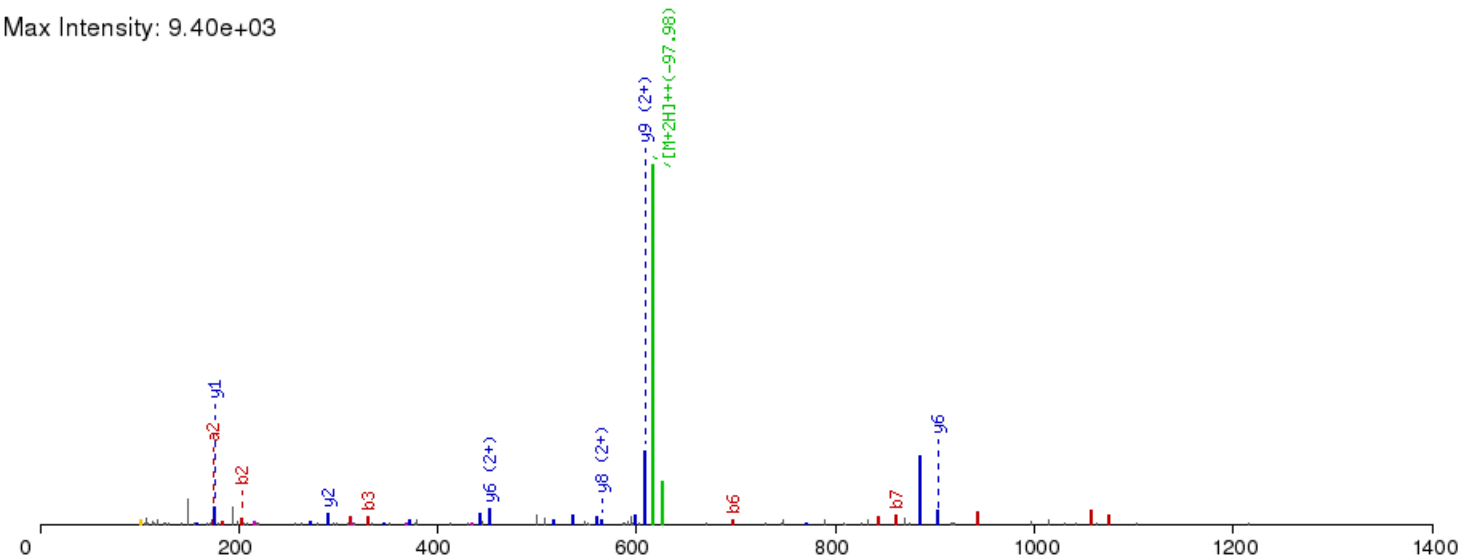
	V	S	G	R	T	S	P	P	L	L	D	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		159.11											a
b		187.11	244.13	400.23	501.28	668.28	765.33	862.38	975.47	1088.55	1203.58		b
b-79.97						588.31	685.36	782.42	895.50	1008.58	1123.61		b-79.97
b-97.98						570.30	667.35	764.40	877.49	990.57	1105.60		b-97.98
b (2+)				200.62	251.14	334.64	383.17	431.69	488.24	544.78	602.29		b (2+)
b-79.97 (2+)						294.66	343.19	391.71	448.25	504.80	562.31		b-79.97 (2+)
b-97.98 (2+)						285.65	334.18	382.71	439.25	495.79	553.30		b-97.98 (2+)
y		1278.62	1191.59	1134.57	978.47	877.42	710.42	613.37	516.31	403.23	290.15	175.12	y
y-79.97		1198.65	1111.62	1054.60	898.50	797.45							y-79.97
y-97.98		1180.64	1093.61	1036.59	880.49	779.44							y-97.98
y (2+)		639.81	596.30	567.79	489.74	439.21	355.71	307.19	258.66	202.12	145.58	88.06	y (2+)
y-79.97 (2+)		599.83	556.31	527.80	449.75	399.23							y-79.97 (2+)
y-97.98 (2+)		590.83	547.31	518.80	440.75	390.22							y-97.98 (2+)
	V	S	G	R	T	S	P	P	L	L	D	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

NSQPNRYT(+79.97)NR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 665.289, Calc. m/z: 665.292
Data File: Pepmix2_HCD.RAW.-1, Scans: 567 - 567

Max Intensity: 9.40e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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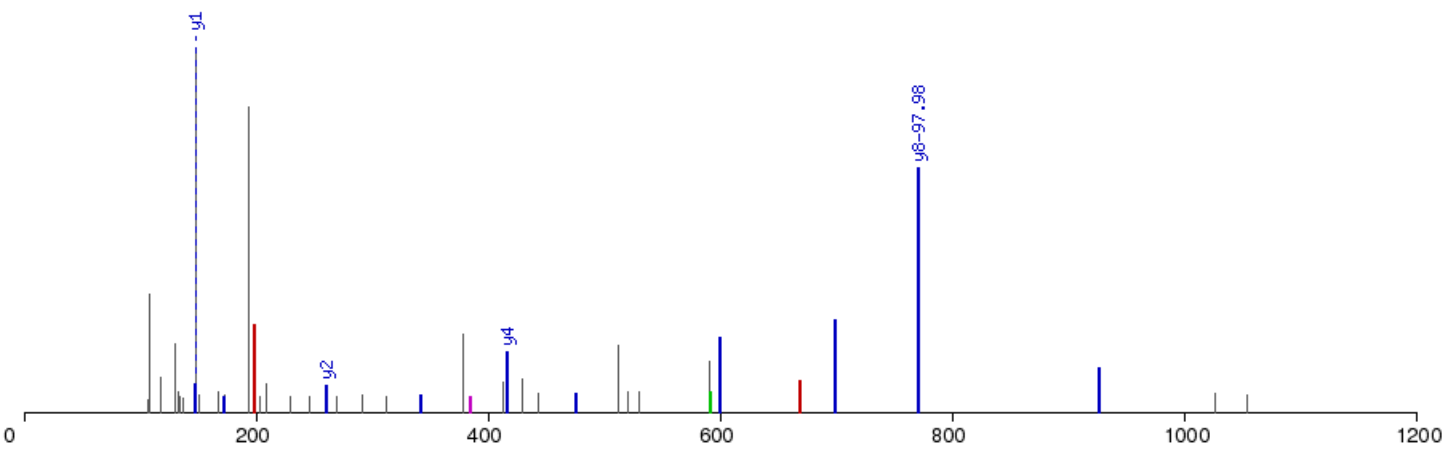
	N	S	Q	P	N	R	Y	T	N	R	
	1	2	3	4	5	6	7	8	9	10	
a		174.09									a
b		202.08	330.14	427.19	541.24	697.34	860.40	1041.41	1155.46		b
b-79.97								961.45	1075.49		b-79.97
b-97.98								943.44	1057.48		b-97.98
b (2+)						349.17	430.70	521.21	578.23		b (2+)
b-79.97 (2+)								481.23	538.25		b-79.97 (2+)
b-97.98 (2+)								472.22	529.24		b-97.98 (2+)
y		1215.53	1128.49	1000.44	903.38	789.34	633.24	470.18	289.16	175.12	y
y-79.97		1135.56	1048.53	920.47	823.42	709.37	553.27	390.21			y-79.97
y-97.98		1117.55	1030.52	902.46	805.41	691.36	535.26	372.20			y-97.98
y (2+)		608.27	564.75	500.72	452.20	395.17	317.12	235.59	145.08	88.06	y (2+)
y-79.97 (2+)		568.28	524.77	460.74	412.21	355.19	277.14	195.61			y-79.97 (2+)
y-97.98 (2+)		559.28	515.76	451.73	403.21	346.19	268.13	186.60			y-97.98 (2+)
	N	S	Q	P	N	R	Y	T	N	R	
	10	9	8	7	6	5	4	3	2	1	

ASGVAVS(+79.97)DGVIK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 591.792, Calc. m/z: 591.797
Data File: Pepmix1_HCD.RAW.-1, Scans: 1394 - 1394

Max Intensity: 6.43e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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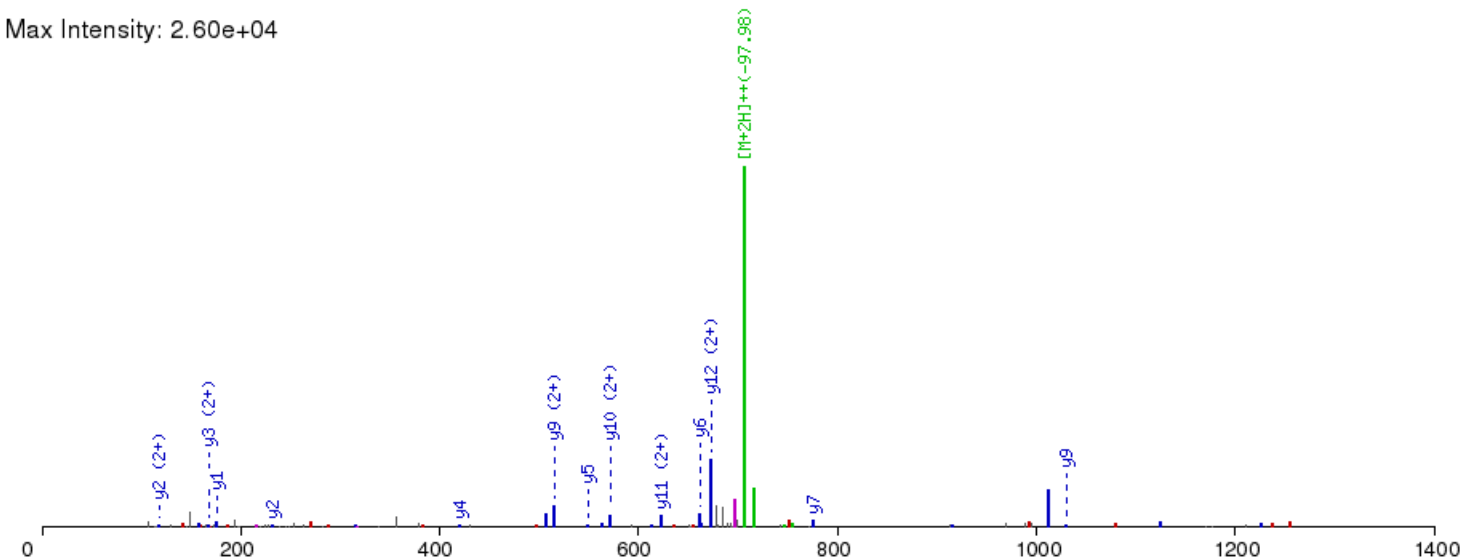
	A	S	G	V	A	V	S	D	G	V	I	K	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		131.08											a
b		159.08	216.10	315.17	386.20	485.27	652.27	767.30	824.32	923.39	1036.47		b
b-79.97							572.30	687.33	744.35	843.42	956.50		b-79.97
b-97.98							554.29	669.32	726.34	825.41	938.49		b-97.98
y		1111.54	1024.51	967.49	868.42	797.38	698.31	531.31	416.29	359.27	260.20	147.11	y
y-79.97		1031.57	944.54	887.52	788.45	717.41	618.35						y-79.97
y-97.98		1013.56	926.53	869.51	770.44	699.40	600.34						y-97.98
y (2+)		556.27	512.76	484.25	434.71	399.19	349.66	266.16	208.65	180.14	130.60	74.06	y (2+)
y-79.97 (2+)		516.29	472.77	444.26	394.73	359.21	309.68						y-79.97 (2+)
y-97.98 (2+)		507.28	463.77	435.26	385.72	350.21	300.67						y-97.98 (2+)
	A	S	G	V	A	V	S	D	G	V	I	K	
	12	11	10	9	8	7	6	5	4	3	2	1	

S(+79.97)VTLPRDLQSTGR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 755.376, Calc. m/z: 755.377
Data File: Pepmix4_HCD.RAW.-1, Scans: 1390 - 1390

Max Intensity: 2.60e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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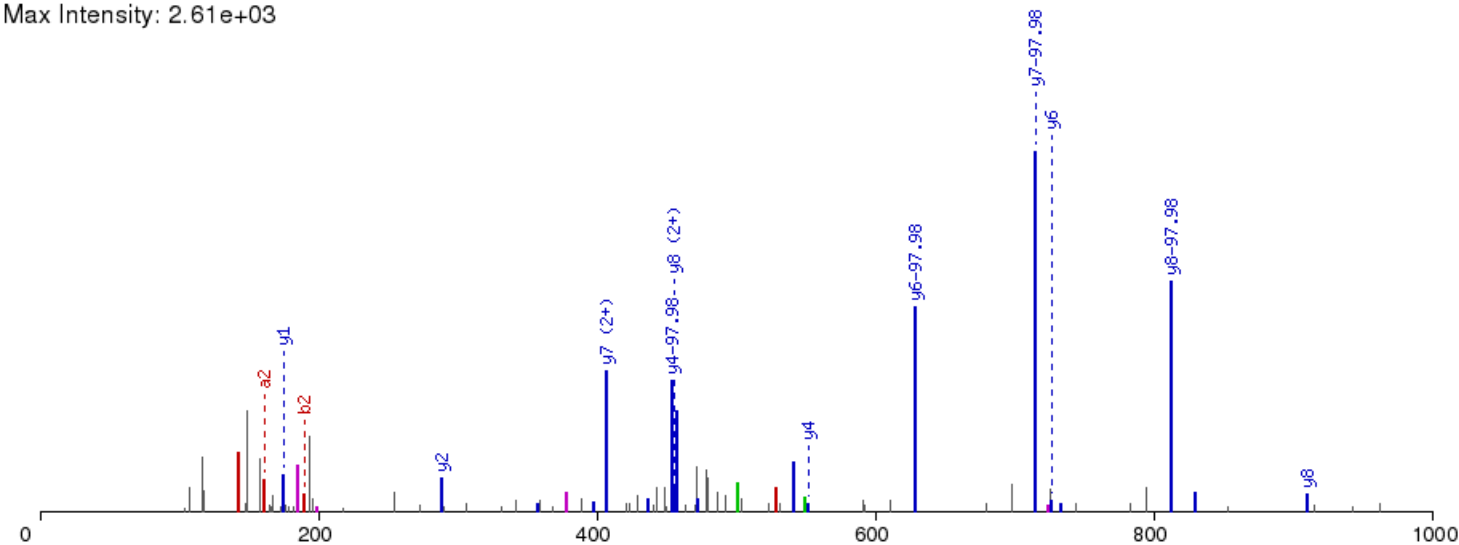
	S	V	T	L	P	R	D	L	Q	S	T	G	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	
a		239.08												a
a-79.97		159.11												a-79.97
a-97.98		141.10												a-97.98
b		267.07	368.12	481.21	578.26	734.36	849.39	962.47	1090.53	1177.56	1278.61	1335.63		b
b-79.97		187.11	288.16	401.24	498.29	654.39	769.42	882.50	1010.56	1097.59	1198.64	1255.66		b-79.97
b-97.98		169.10	270.14	383.23	480.28	636.38	751.41	864.49	992.55	1079.58	1180.63	1237.65		b-97.98
b (2+)						367.68	425.20	481.74	545.77	589.28	639.81	668.32		b (2+)
b-79.97 (2+)						327.70	385.21	441.76	505.79	549.30	599.82	628.34		b-79.97 (2+)
b-97.98 (2+)						318.70	376.21	432.75	496.78	540.30	590.82	619.33		b-97.98 (2+)
y		1342.74	1243.68	1142.63	1029.54	932.49	776.39	661.36	548.28	420.22	333.19	232.14	175.12	y
y (2+)		671.88	622.34	571.82	515.28	466.75	388.70	331.19	274.64	210.61	167.10	116.57	88.06	y (2+)
	S	V	T	L	P	R	D	L	Q	S	T	G	R	
	13	12	11	10	9	8	7	6	5	4	3	2	1	

STPSSSPS(+79.97)LR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 549.743, Calc. m/z: 549.747
Data File: Pepmix2_HCD.RAW.-1, Scans: 944 - 944

Max Intensity: 2.61e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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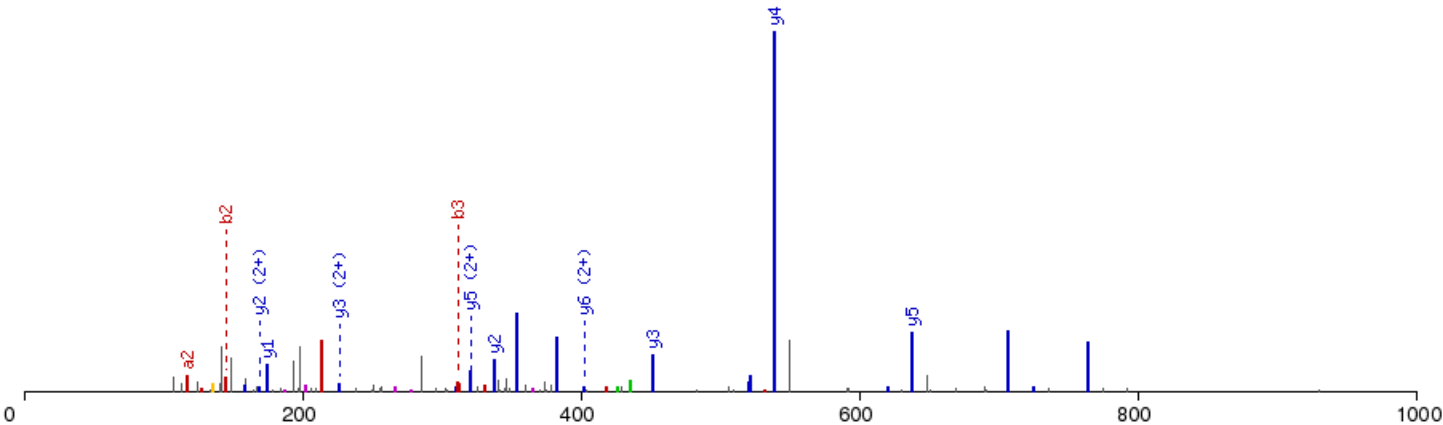
	S	T	P	S	S	S	P	S	L	R	
	1	2	3	4	5	6	7	8	9	10	
a		161.09									a
b		189.09	286.14	373.17	460.20	547.24	644.29	811.29	924.37		b
b-79.97								731.32	844.40		b-79.97
b-97.98								713.31	826.39		b-97.98
y		1011.45	910.40	813.35	726.32	639.29	552.25	455.20	288.20	175.12	y
y-79.97		931.48	830.44	733.38	646.35	559.32	472.29	375.24			y-79.97
y-97.98		913.47	812.43	715.37	628.34	541.31	454.28	357.22			y-97.98
y (2+)		506.23	455.71	407.18	363.66	320.15	276.63	228.10	144.61	88.06	y (2+)
y-79.97 (2+)		466.25	415.72	367.20	323.68	280.16	236.65	188.12			y-79.97 (2+)
y-97.98 (2+)		457.24	406.72	358.19	314.67	271.16	227.64	179.12			y-97.98 (2+)
	S	T	P	S	S	S	P	S	L	R	
	10	9	8	7	6	5	4	3	2	1	

SGS(+79.97)VSNYR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 475.199, Calc. m/z: 475.196
Data File: Pepmix3_HCD.RAW.-1, Scans: 784 - 784

Max Intensity: 1.48e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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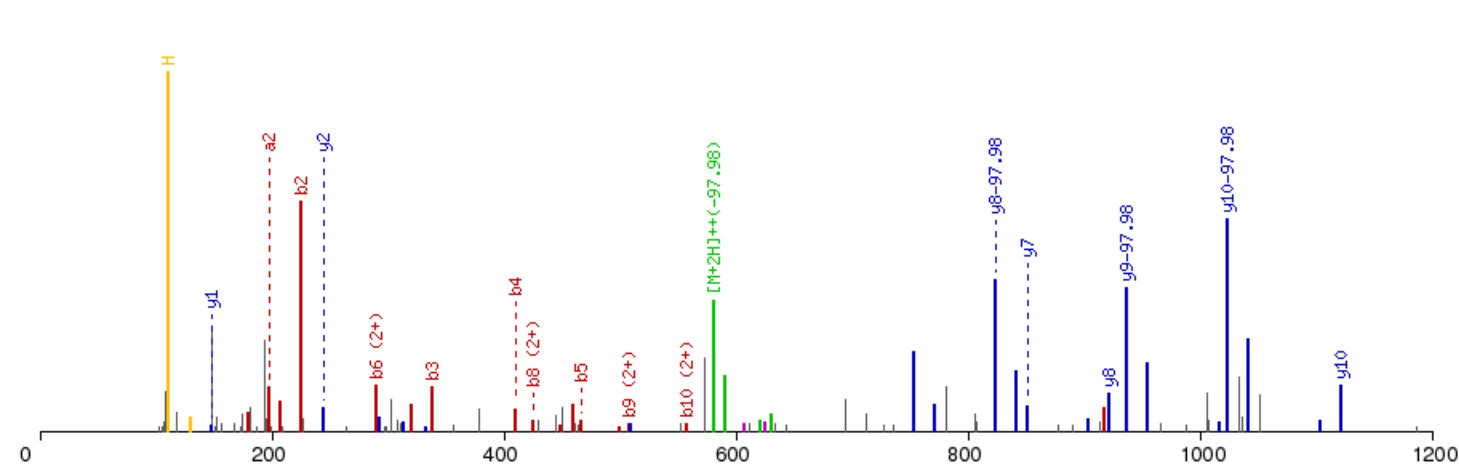
	S	G	S	V	S	N	Y	R	
	1	2	3	4	5	6	7	8	
a		117.07							a
b		145.06	312.06	411.13	498.16	612.20	775.27		b
b-79.97			232.09	331.16	418.19	532.24	695.30		b-79.97
b-97.98			214.08	313.15	400.18	514.23	677.29		b-97.98
y		862.35	805.32	638.33	539.26	452.23	338.18	175.12	y
y-79.97		782.38	725.36						y-79.97
y-97.98		764.37	707.35						y-97.98
y (2+)		431.68	403.17	319.67	270.13	226.62	169.59	88.06	y (2+)
y-79.97 (2+)		391.69	363.18						y-79.97 (2+)
y-97.98 (2+)		382.69	354.18						y-97.98 (2+)
	S	G	S	V	S	N	Y	R	
	8	7	6	5	4	3	2	1	

HSIAGIIRS(+79.97)PK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 629.838, Calc. m/z: 629.842
Data File: Pepmix1_HCD.RAW.-1, Scans: 1236 - 1236

Max Intensity: 2.32e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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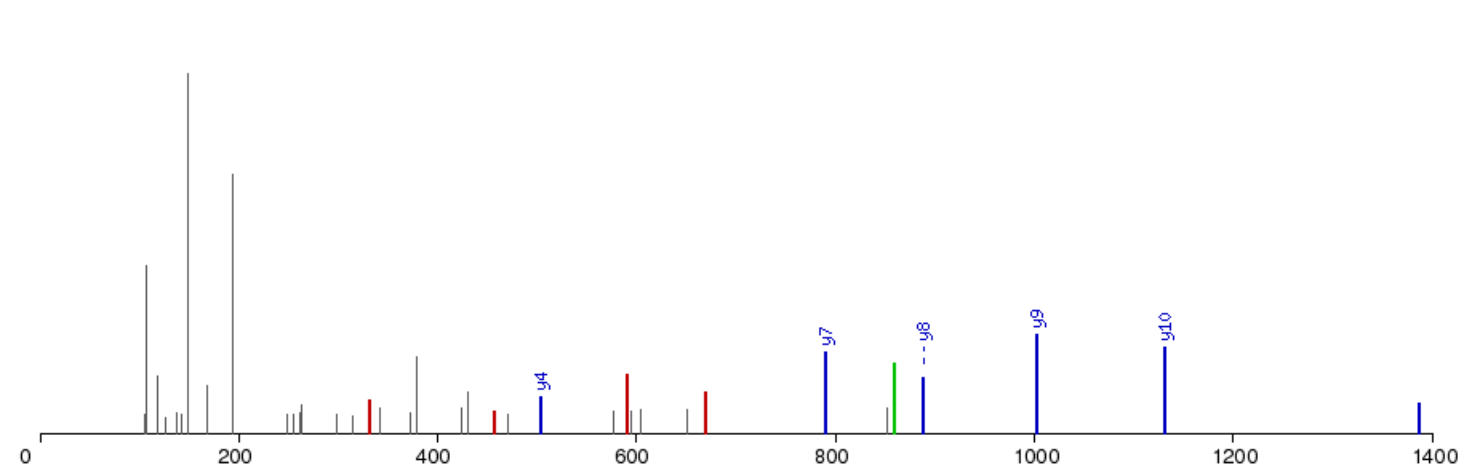
	H	S	I	A	G	I	I	R	S	P	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		197.10										a
a (2+)		99.06										a (2+)
b		225.10	338.18	409.22	466.24	579.32	692.41	848.51	1015.51	1112.56		b
b-79.97									935.54	1032.59		b-79.97
b-97.98									917.53	1014.58		b-97.98
b (2+)		113.05	169.59	205.11	233.62	290.17	346.71	424.76	508.26	556.78		b (2+)
b-79.97 (2+)									468.27	516.80		b-79.97 (2+)
b-97.98 (2+)									459.27	507.80		b-97.98 (2+)
y		1121.61	1034.58	921.49	850.45	793.43	680.35	567.27	411.16	244.17	147.11	y
y-79.97		1041.64	954.61	841.53	770.49	713.47	600.38	487.30	331.20			y-79.97
y-97.98		1023.63	936.60	823.51	752.48	695.46	582.37	469.29	313.19			y-97.98
y (2+)		561.31	517.79	461.25	425.73	397.22	340.68	284.14	206.09	122.59	74.06	y (2+)
y-79.97 (2+)		521.32	477.81	421.27	385.75	357.24	300.70	244.15	166.10			y-79.97 (2+)
y-97.98 (2+)		512.32	468.80	412.26	376.74	348.23	291.69	235.15	157.10			y-97.98 (2+)
	H	S	I	A	G	I	I	R	S	P	K	
	11	10	9	8	7	6	5	4	3	2	1	

SFNGS(+79.97)LKNVAVDELSR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 908.438, Calc. m/z: 908.437
Data File: Pepmix3_HCD.RAW.-1, Scans: 1786 - 1786

Max Intensity: 5.47e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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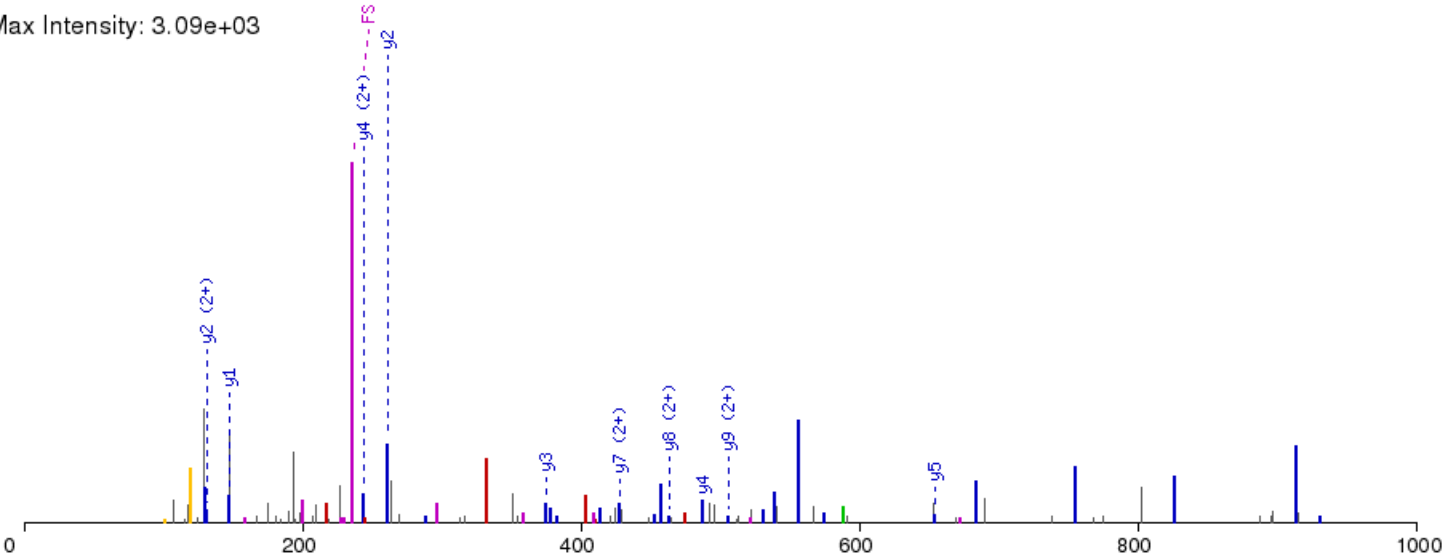
	S	F	N	G	S	L	K	N	V	A	V	D	E	L	S	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
a		207.11															a
b		235.11	349.15	406.17	573.17	686.25	814.35	928.39	1027.46	1098.50	1197.57	1312.59	1441.64	1554.72	1641.75		b
b-79.97					493.20	606.29	734.38	848.43	947.49	1018.53	1117.60	1232.63	1361.67	1474.75	1561.79		b-79.97
b-97.98					475.19	588.28	716.37	830.42	929.48	1000.52	1099.59	1214.62	1343.66	1456.74	1543.78		b-97.98
b (2+)							407.68	464.70	514.23	549.75	599.29	656.80	721.32	777.86	821.38		b (2+)
b-79.97 (2+)							367.70	424.72	474.25	509.77	559.30	616.82	681.34	737.88	781.40		b-79.97 (2+)
b-97.98 (2+)							358.69	415.71	465.25	500.76	550.30	607.81	672.33	728.88	772.39		b-97.98 (2+)
y		1728.83	1581.76	1467.72	1410.70	1243.70	1130.62	1002.52	888.48	789.41	718.37	619.30	504.28	375.24	262.15	175.12	y
y-79.97		1648.87	1501.80	1387.75	1330.73												y-79.97
y-97.98		1630.85	1483.79	1369.74	1312.72												y-97.98
y (2+)		864.92	791.39	734.36	705.85	622.35	565.81	501.76	444.74	395.21	359.69	310.16	252.64	188.12	131.58	88.06	y (2+)
y-79.97 (2+)		824.94	751.40	694.38	665.87												y-79.97 (2+)
y-97.98 (2+)		815.93	742.40	685.38	656.86												y-97.98 (2+)
	S	F	N	G	S	L	K	N	V	A	V	D	E	L	S	R	
	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

NFSAAKS(+79.97)LLNK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 637.321, Calc. m/z: 636.827
Data File: Pepmix1_HCD.RAW.-1, Scans: 1622 - 1622

Max Intensity: 3.09e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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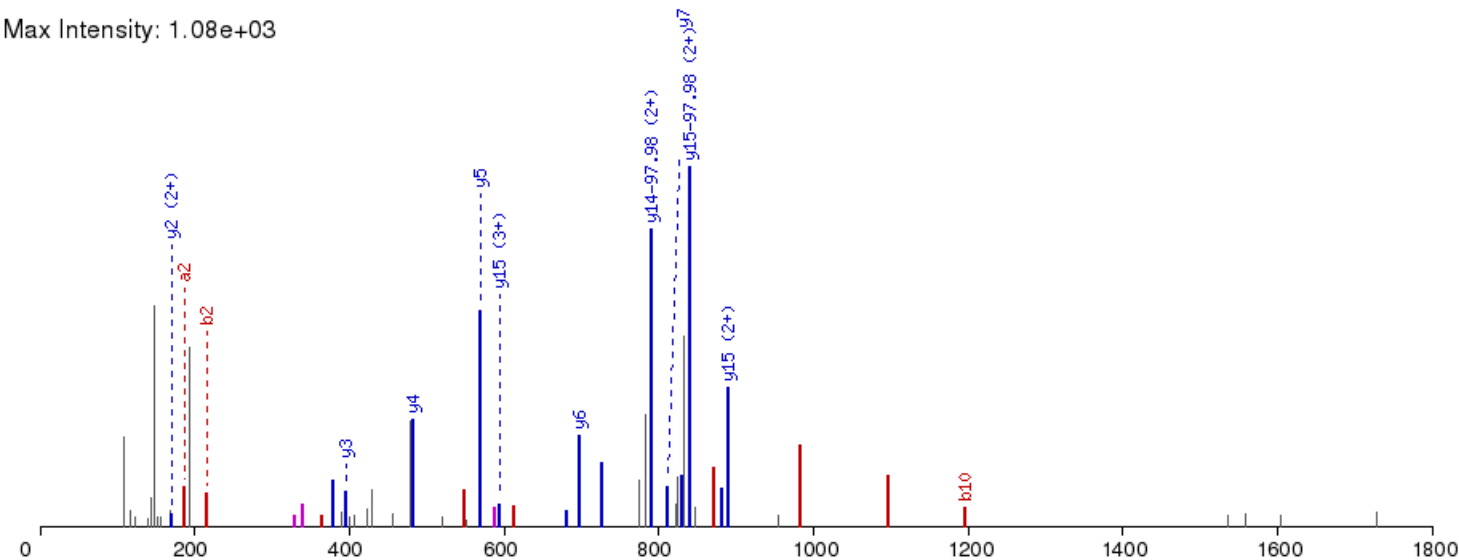
	N	F	S	A	A	K	S	L	L	N	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		234.12										a
b		262.12	349.15	420.19	491.22	619.32	786.32	899.40	1012.49	1126.53		b
b-79.97							706.35	819.44	932.52	1046.56		b-79.97
b-97.98							688.34	801.43	914.51	1028.55		b-97.98
b (2+)						310.16	393.66	450.20	506.75	563.77		b (2+)
b-79.97 (2+)							353.68	410.22	466.76	523.79		b-79.97 (2+)
b-97.98 (2+)							344.67	401.22	457.76	514.78		b-97.98 (2+)
y		1158.59	1011.52	924.49	853.45	782.42	654.32	487.32	374.24	261.16	147.11	y
y-79.97		1078.63	931.56	844.53	773.49	702.45	574.36					y-79.97
y-97.98		1060.61	913.55	826.51	755.48	684.44	556.35					y-97.98
y (2+)		579.80	506.27	462.75	427.23	391.71	327.66	244.17	187.62	131.08	74.06	y (2+)
y-79.97 (2+)		539.82	466.28	422.77	387.25	351.73	287.68					y-79.97 (2+)
y-97.98 (2+)		530.81	457.28	413.76	378.24	342.72	278.68					y-97.98 (2+)
	N	F	S	A	A	K	S	L	L	N	K	
	11	10	9	8	7	6	5	4	3	2	1	

LTEERDGS(+79.97)LNQSSGYR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 631.278, Calc. m/z: 631.277
Data File: Pepmix3_HCD.RAW.-1, Scans: 990 - 990

Max Intensity: 1.08e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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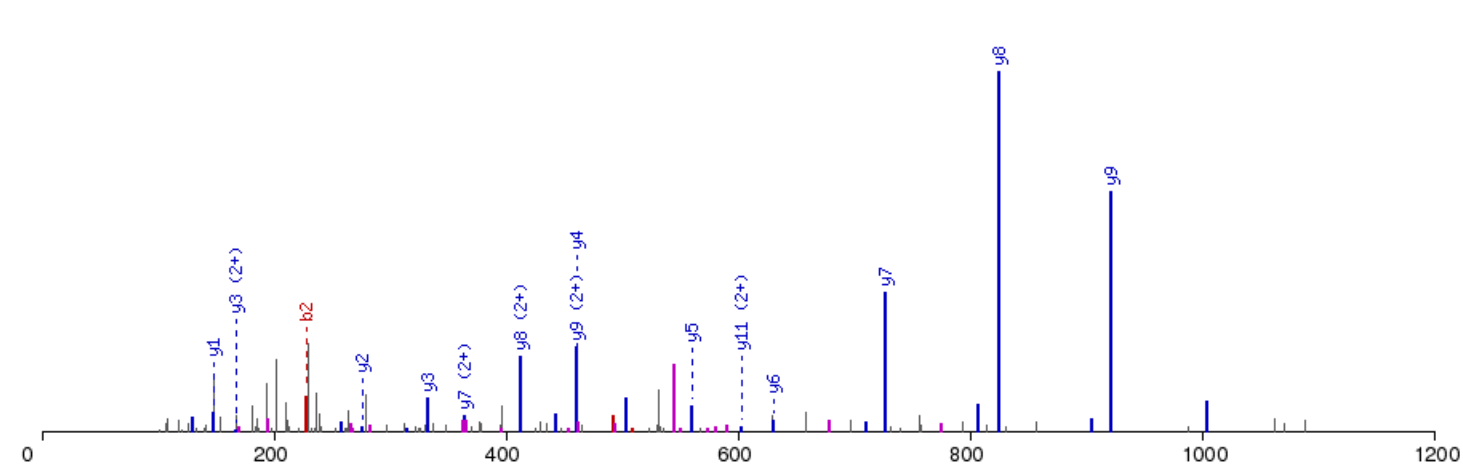
	L	T	E	E	R	D	G	S	L	N	Q	S	S	G	Y	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
a		187.14															a
b		215.14	344.18	473.22	629.33	744.35	801.37	968.37	1081.46	1195.50	1323.56	1410.59	1497.62	1554.64	1717.71		b
b-79.97								888.41	1001.49	1115.53	1243.59	1330.62	1417.66	1474.68	1637.74		b-79.97
b-97.98								870.40	983.48	1097.52	1225.58	1312.61	1399.64	1456.67	1619.73		b-97.98
b (2+)					315.17	372.68	401.19	484.69	541.23	598.25	662.28	705.80	749.31	777.83	859.36		b (2+)
b-79.97 (2+)								444.71	501.25	558.27	622.30	665.82	709.33	737.84	819.37		b-79.97 (2+)
b-97.98 (2+)								435.70	492.24	549.26	613.29	656.81	700.33	728.84	810.37		b-97.98 (2+)
y		1778.73	1677.69	1548.64	1419.60	1263.50	1148.47	1091.45	924.45	811.37	697.33	569.27	482.24	395.20	338.18	175.12	y
y-79.97		1698.77	1597.72	1468.68	1339.63	1183.53	1068.51	1011.49									y-79.97
y-97.98		1680.76	1579.71	1450.67	1321.62	1165.52	1050.50	993.47									y-97.98
y (2+)		889.87	839.35	774.83	710.30	632.25	574.74	546.23	462.73	406.19	349.17	285.14	241.62	198.11	169.59	88.06	y (2+)
y-79.97 (2+)		849.89	799.36	734.84	670.32	592.27	534.76	506.25									y-79.97 (2+)
y-97.98 (2+)		840.88	790.36	725.84	661.32	583.27	525.75	497.24									y-97.98 (2+)
y (3+)		593.58	559.90	516.89	473.87												y (3+)
y-79.97 (3+)		566.93	533.24	490.23	447.22												y-79.97 (3+)
y-97.98 (3+)		560.92	527.24	484.23	441.21												y-97.98 (3+)
	L	T	E	E	R	D	G	S	L	N	Q	S	S	G	Y	R	
	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

VQTT(+79.97)PPPAVQGQK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 716.349, Calc. m/z: 715.857
Data File: Pepmix1_HCD.RAW.-1, Scans: 983 - 983

Max Intensity: 1.02e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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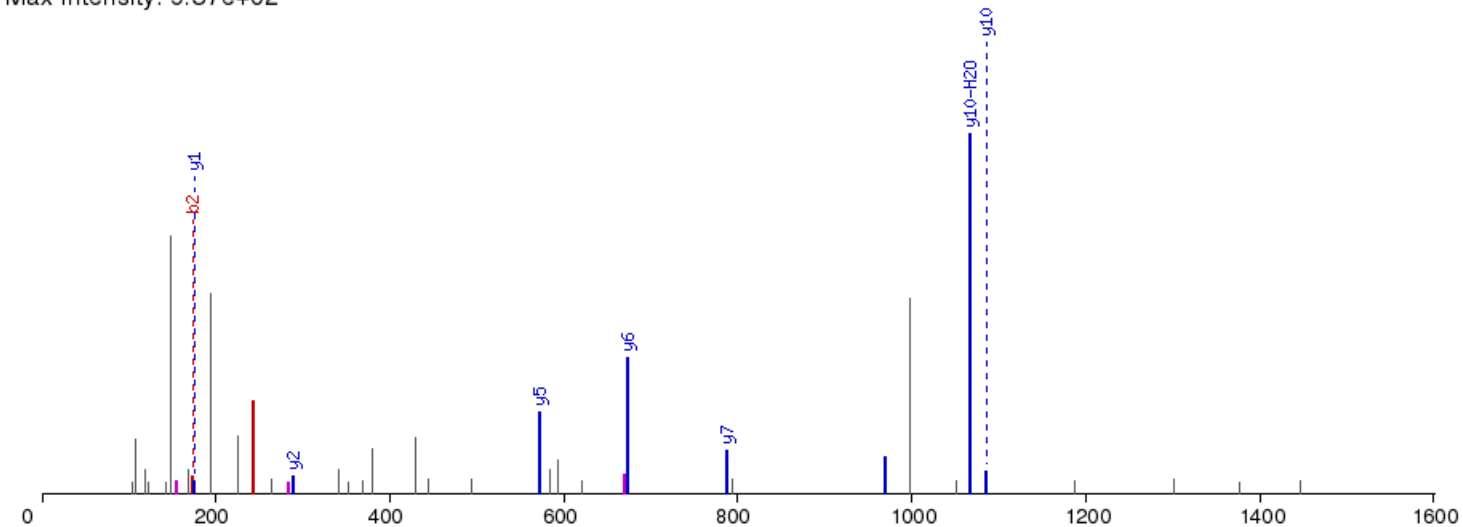
	V	Q	T	T	P	P	P	A	V	Q	G	Q	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	
a		200.14												a
b		228.13	329.18	510.20	607.25	704.30	801.35	872.39	971.46	1099.52	1156.54	1284.60		b
b-79.97				430.23	527.28	624.34	721.39	792.43	891.49	1019.55	1076.57	1204.63		b-79.97
b-97.98				412.22	509.27	606.32	703.38	774.41	873.48	1001.54	1058.56	1186.62		b-97.98
y		1331.64	1203.58	1102.53	921.52	824.46	727.41	630.36	559.32	460.25	332.19	275.17	147.11	y
y-79.97		1251.67	1123.61	1022.56										y-79.97
y-97.98		1233.66	1105.60	1004.55										y-97.98
y (2+)		666.32	602.29	551.77	461.26	412.73	364.21	315.68	280.16	230.63	166.60	138.09	74.06	y (2+)
y-79.97 (2+)		626.34	562.31	511.79										y-79.97 (2+)
y-97.98 (2+)		617.33	553.30	502.78										y-97.98 (2+)
	V	Q	T	T	P	P	P	A	V	Q	G	Q	K	
	13	12	11	10	9	8	7	6	5	4	3	2	1	

ATS(+79.97)LPSLDTPGELR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 768.870, Calc. m/z: 768.867
 Data File: Pepmix5_HCD.RAW.-1, Scans: 1676 - 1676

Max Intensity: 9.37e+02



Sequence Ladder Ions

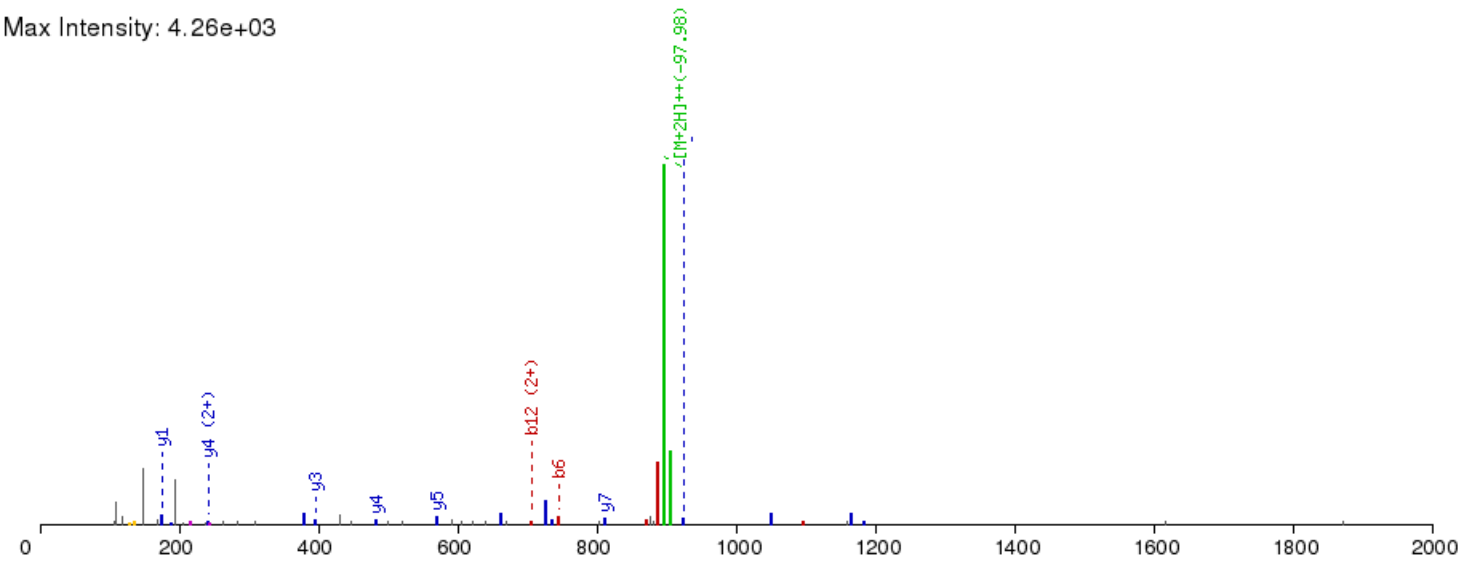
Key:	m/z out of range of spectrum				matched c-term ion			unmatched c-term ion			matched n-term ion			unmatched n-term ion		
	A	T	S	L	P	S	L	D	T	P	G	E	L	R		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14		
a		145.10													a	
b		173.09	340.09	453.17	550.23	637.26	750.34	865.37	966.42	1063.47	1120.49	1249.53	1362.62		b	
b-79.97			260.12	373.21	470.26	557.29	670.38	785.40	886.45	983.50	1040.53	1169.57	1282.65		b-79.97	
b-97.98			242.11	355.20	452.25	539.28	652.37	767.39	868.44	965.49	1022.52	1151.56	1264.64		b-97.98	
y		1465.69	1364.65	1197.65	1084.56	987.51	900.48	787.39	672.37	571.32	474.27	417.25	288.20	175.12	y	
y-79.97		1385.73	1284.68												y-79.97	
y-97.98		1367.72	1266.67												y-97.98	
y (2+)		733.35	682.83	599.33	542.79	494.26	450.74	394.20	336.69	286.16	237.64	209.13	144.61	88.06	y (2+)	
y-79.97 (2+)		693.37	642.84												y-79.97 (2+)	
y-97.98 (2+)		684.36	633.84												y-97.98 (2+)	
	A	T	S	L	P	S	L	D	T	P	G	E	L	R		
	14	13	12	11	10	9	8	7	6	5	4	3	2	1		

LTEERDGS(+79.97)LNQSSGYR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 946.415, Calc. m/z: 946.417
Data File: Pepmix3_HCD.RAW.-1, Scans: 1001 - 1001

Max Intensity: 4.26e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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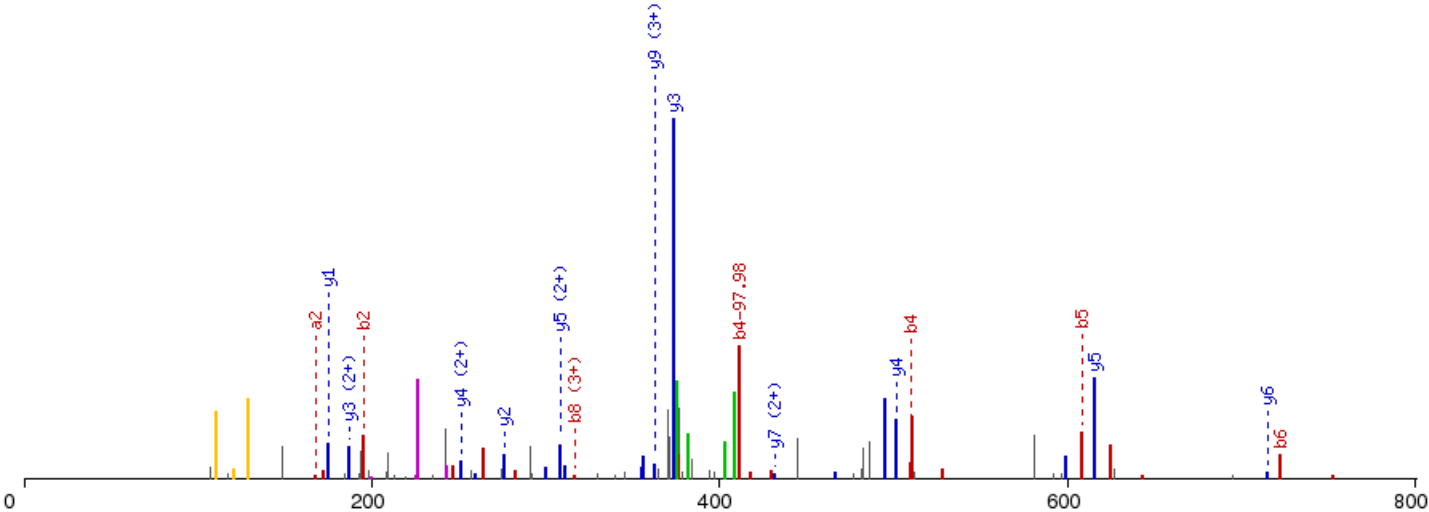
	L	T	E	E	R	D	G	S	L	N	Q	S	S	G	Y	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
a		187.14															a
b		215.14	344.18	473.22	629.33	744.35	801.37	968.37	1081.46	1195.50	1323.56	1410.59	1497.62	1554.64	1717.71		b
b-79.97								888.41	1001.49	1115.53	1243.59	1330.62	1417.66	1474.68	1637.74		b-79.97
b-97.98								870.40	983.48	1097.52	1225.58	1312.61	1399.64	1456.67	1619.73		b-97.98
b (2+)					315.17	372.68	401.19	484.69	541.23	598.25	662.28	705.80	749.31	777.83	859.36		b (2+)
b-79.97 (2+)								444.71	501.25	558.27	622.30	665.82	709.33	737.84	819.37		b-79.97 (2+)
b-97.98 (2+)								435.70	492.24	549.26	613.29	656.81	700.33	728.84	810.37		b-97.98 (2+)
y		1778.73	1677.69	1548.64	1419.60	1263.50	1148.47	1091.45	924.45	811.37	697.33	569.27	482.24	395.20	338.18	175.12	y
y-79.97		1698.77	1597.72	1468.68	1339.63	1183.53	1068.51	1011.49									y-79.97
y-97.98		1680.76	1579.71	1450.67	1321.62	1165.52	1050.50	993.47									y-97.98
y (2+)		889.87	839.35	774.83	710.30	632.25	574.74	546.23	462.73	406.19	349.17	285.14	241.62	198.11	169.59	88.06	y (2+)
y-79.97 (2+)		849.89	799.36	734.84	670.32	592.27	534.76	506.25									y-79.97 (2+)
y-97.98 (2+)		840.88	790.36	725.84	661.32	583.27	525.75	497.24									y-97.98 (2+)
	L	T	E	E	R	D	G	S	L	N	Q	S	S	G	Y	R	
	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

HGS(+79.97)FVNKPTR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 408.201, Calc. m/z: 408.197
Data File: Pepmix2_HCD.RAW.-1, Scans: 744 - 744

Max Intensity: 9.92e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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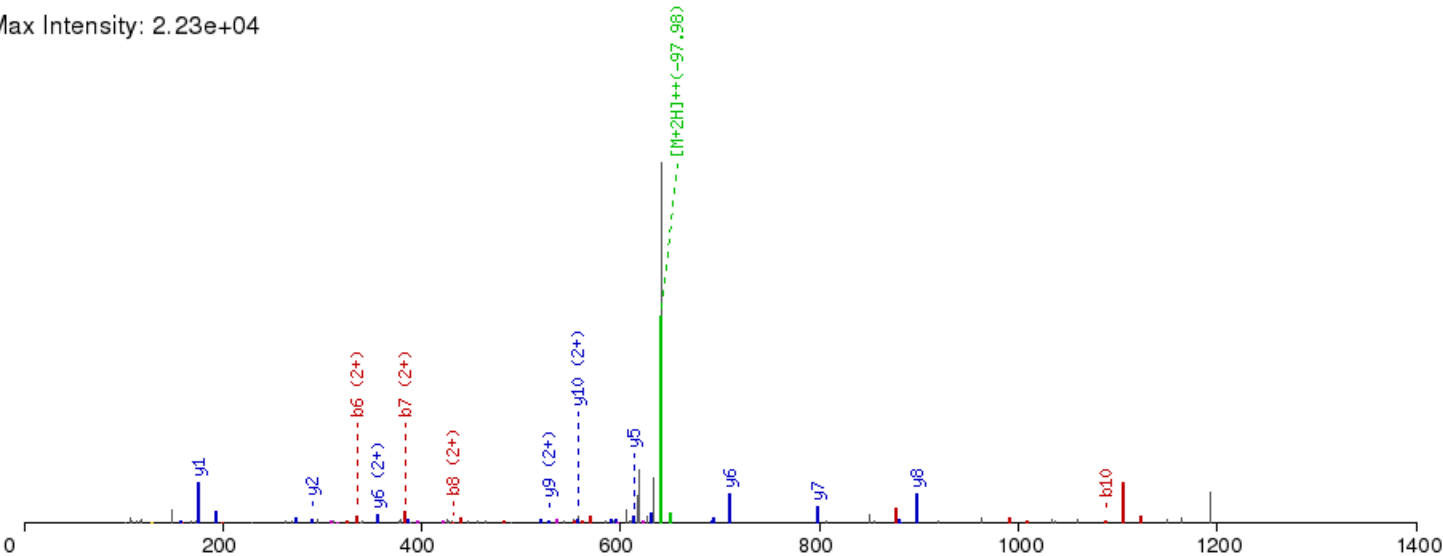
	H	G	S	F	V	N	K	P	T	R	
	1	2	3	4	5	6	7	8	9	10	
a		167.09									a
a (2+)		84.05									a (2+)
b		195.09	362.09	509.15	608.22	722.27	850.36	947.41	1048.46		b
b-79.97			282.12	429.19	528.26	642.30	770.39	867.45	968.49		b-79.97
b-97.98			264.11	411.18	510.25	624.29	752.38	849.44	950.48		b-97.98
b (2+)		98.05	181.55	255.08	304.62	361.64	425.68	474.21	524.73		b (2+)
b-79.97 (2+)			141.56	215.10	264.63	321.65	385.70	434.23	484.75		b-79.97 (2+)
b-97.98 (2+)			132.56	206.09	255.63	312.65	376.70	425.22	475.75		b-97.98 (2+)
b (3+)							284.13	316.48	350.16		b (3+)
b-79.97 (3+)							257.47	289.82	323.50		b-79.97 (3+)
b-97.98 (3+)							251.47	283.82	317.50		b-97.98 (3+)
y		1085.51	1028.49	861.49	714.43	615.36	501.31	373.22	276.17	175.12	y
y-79.97		1005.55	948.53								y-79.97
y-97.98		987.54	930.52								y-97.98
y (2+)		543.26	514.75	431.25	357.72	308.18	251.16	187.11	138.59	88.06	y (2+)
y-79.97 (2+)		503.28	474.77								y-79.97 (2+)
y-97.98 (2+)		494.27	465.76								y-97.98 (2+)
y (3+)		362.51	343.50	287.84	238.81	205.79	167.78				y (3+)
y-79.97 (3+)		335.85	316.85								y-79.97 (3+)
y-97.98 (3+)		329.85	310.84								y-97.98 (3+)
	H	G	S	F	V	N	K	P	T	R	
	10	9	8	7	6	5	4	3	2	1	

VS(+79.97)GRTSPPLDR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 689.348, Calc. m/z: 689.352
Data File: Pepmix4_HCD.RAW.-1, Scans: 1252 - 1252

Max Intensity: 2.23e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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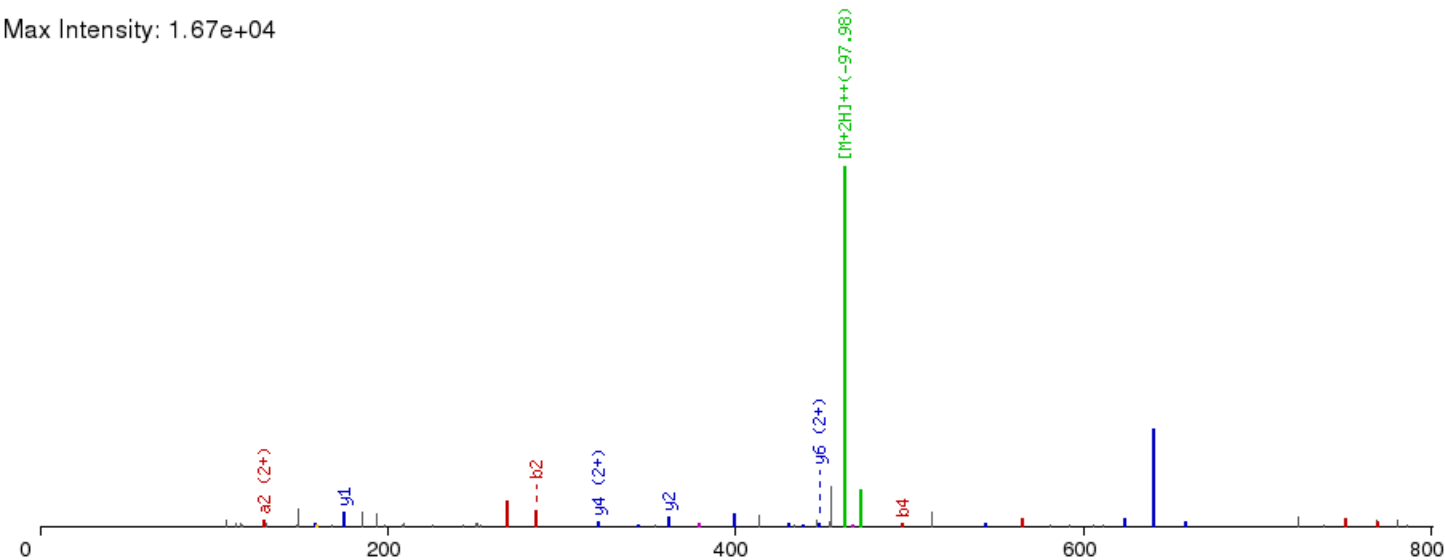
	V	S	G	R	T	S	P	P	L	L	D	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		239.08											a
a-79.97		159.11											a-79.97
a-97.98		141.10											a-97.98
b		267.07	324.10	480.20	581.24	668.28	765.33	862.38	975.47	1088.55	1203.58		b
b-79.97		187.11	244.13	400.23	501.28	588.31	685.36	782.42	895.50	1008.58	1123.61		b-79.97
b-97.98		169.10	226.12	382.22	483.27	570.30	667.35	764.40	877.49	990.57	1105.60		b-97.98
b (2+)				240.60	291.13	334.64	383.17	431.69	488.24	544.78	602.29		b (2+)
b-79.97 (2+)				200.62	251.14	294.66	343.19	391.71	448.25	504.80	562.31		b-79.97 (2+)
b-97.98 (2+)				191.61	242.14	285.65	334.18	382.71	439.25	495.79	553.30		b-97.98 (2+)
y		1278.62	1111.62	1054.60	898.50	797.45	710.42	613.37	516.31	403.23	290.15	175.12	y
y-79.97		1198.65											y-79.97
y-97.98		1180.64											y-97.98
y (2+)		639.81	556.31	527.80	449.75	399.23	355.71	307.19	258.66	202.12	145.58	88.06	y (2+)
y-79.97 (2+)		599.83											y-79.97 (2+)
y-97.98 (2+)		590.83											y-97.98 (2+)
	V	S	G	R	T	S	P	P	L	L	D	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

KRPLS(+79.97)WR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 511.768, Calc. m/z: 511.772
Data File: Pepmix3_HCD.RAW.-1, Scans: 1139 - 1139

Max Intensity: 1.67e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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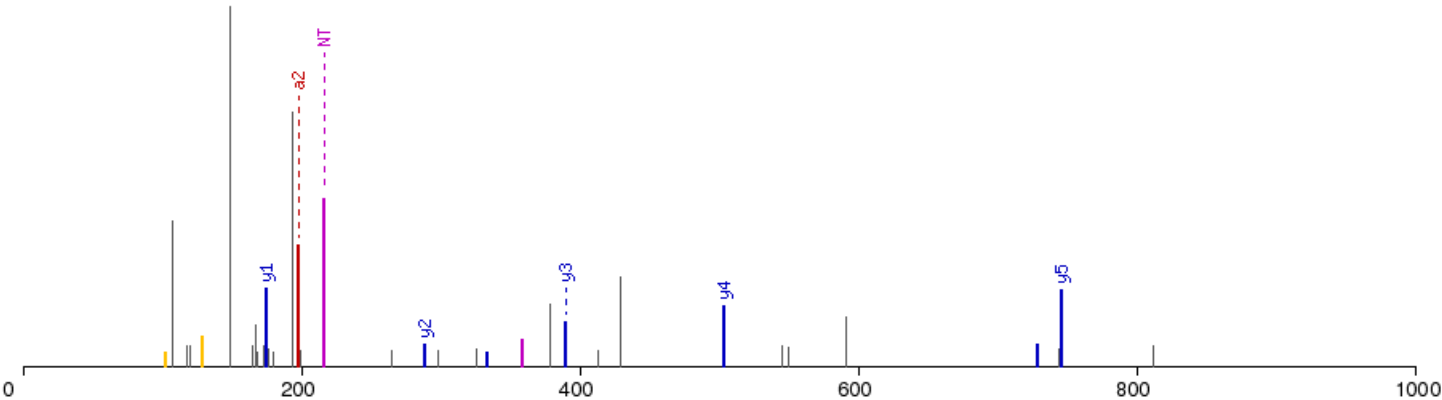
	K	R	P	L	S	W	R	
	1	2	3	4	5	6	7	
a		257.21						a
a (2+)		129.11						a (2+)
b		285.20	382.26	495.34	662.34	848.42		b
b-79.97					582.37	768.45		b-79.97
b-97.98					564.36	750.44		b-97.98
b (2+)		143.11	191.63	248.17	331.67	424.71		b (2+)
b-79.97 (2+)					291.69	384.73		b-79.97 (2+)
b-97.98 (2+)					282.68	375.72		b-97.98 (2+)
y		894.43	738.33	641.28	528.20	361.20	175.12	y
y-79.97		814.47	658.37	561.31	448.23			y-79.97
y-97.98		796.46	640.36	543.30	430.22			y-97.98
y (2+)		447.72	369.67	321.14	264.60	181.10	88.06	y (2+)
y-79.97 (2+)		407.74	329.69	281.16	224.62			y-79.97 (2+)
y-97.98 (2+)		398.73	320.68	272.16	215.61			y-97.98 (2+)
	K	R	P	L	S	W	R	
	7	6	5	4	3	2	1	

E(+/-18.01)IY(+79.97)NTIR

Identified in MSS769 1 x Phospho (Y) 1 x Glu->pyro-Glu (N-term E)

Charge: 2, Exp. m/z: 485.723, Calc. m/z: 485.723
Data File: Pepmix3_HCD.RAW.-1, Scans: 1427 - 1427

Max Intensity: 6.55e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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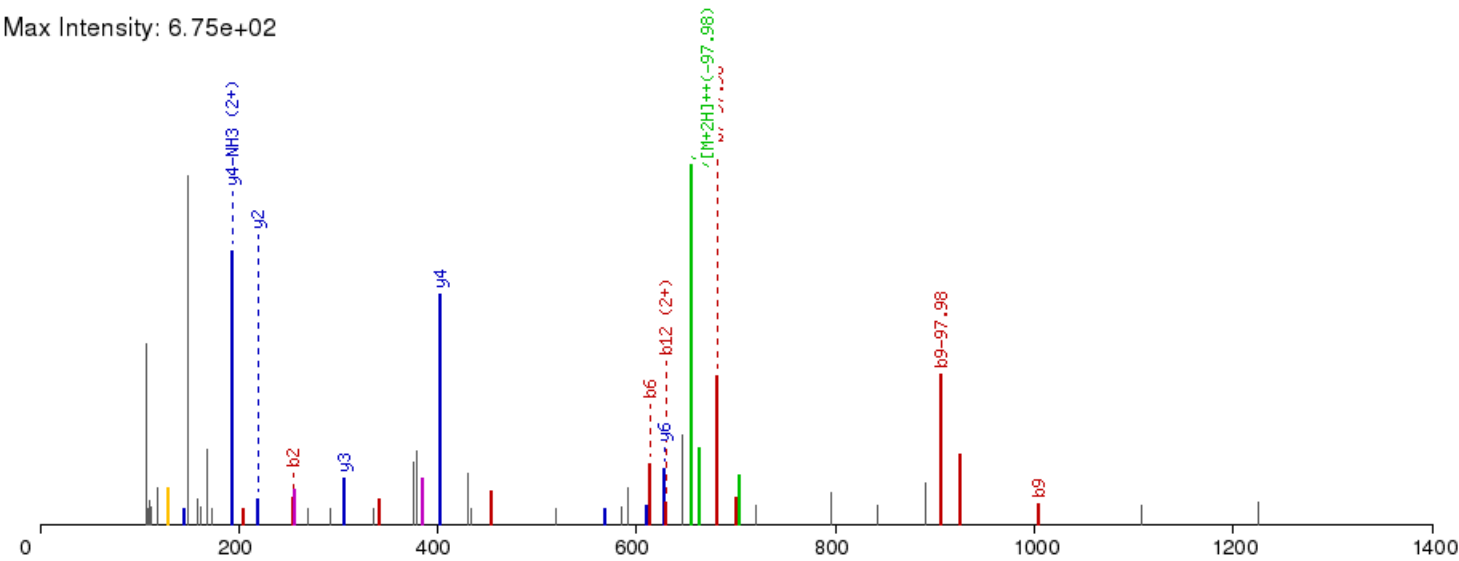
	E	I	Y	N	T	I	R	
	1	2	3	4	5	6	7	
a		197.13						a
b		225.12	468.15	582.20	683.24	796.33		b
b-79.97			388.19	502.23	603.28	716.36		b-79.97
y		859.41	746.32	503.29	389.25	288.20	175.12	y
y-79.97		779.44	666.36					y-79.97
y (2+)		430.21	373.67	252.15	195.13	144.61	88.06	y (2+)
y-79.97 (2+)		390.22	333.68					y-79.97 (2+)
	E	I	Y	N	T	I	R	
	7	6	5	4	3	2	1	

RPATADS(+79.97)PKPSAK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 703.346, Calc. m/z: 703.347
Data File: Pepmix1_HCD.RAW.-1, Scans: 517 - 517

Max Intensity: 6.75e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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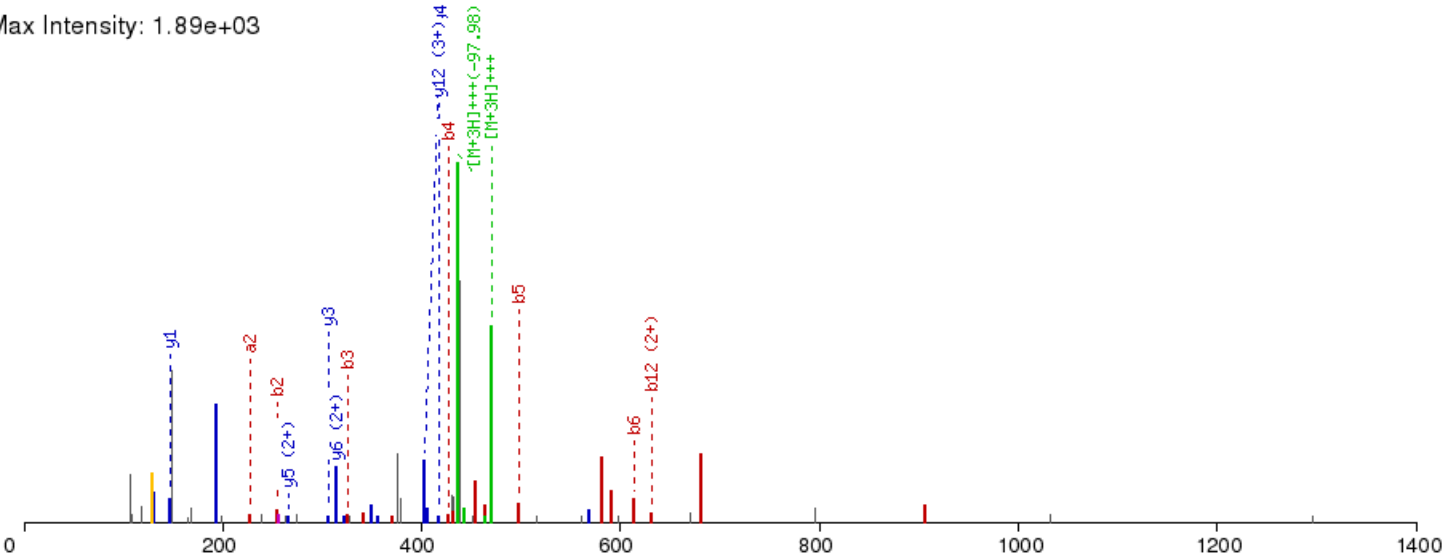
	R	P	A	T	A	D	S	P	K	P	S	A	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	
a		226.17												a
a (2+)		113.59												a (2+)
b		254.16	325.20	426.25	497.28	612.31	779.31	876.36	1004.46	1101.51	1188.54	1259.58		b
b-79.97							699.34	796.39	924.49	1021.54	1108.57	1179.61		b-79.97
b-97.98							681.33	778.38	906.48	1003.53	1090.56	1161.60		b-97.98
b (2+)		127.58	163.10	213.63	249.15	306.66	390.16	438.68	502.73	551.26	594.77	630.29		b (2+)
b-79.97 (2+)							350.17	398.70	462.75	511.27	554.79	590.31		b-79.97 (2+)
b-97.98 (2+)							341.17	389.70	453.74	502.27	545.79	581.30		b-97.98 (2+)
y		1249.58	1152.53	1081.49	980.44	909.41	794.38	627.38	530.33	402.23	305.18	218.15	147.11	y
y-79.97		1169.62	1072.56	1001.53	900.48	829.44	714.41							y-79.97
y-97.98		1151.61	1054.55	983.52	882.47	811.43	696.40							y-97.98
y (2+)		625.29	576.77	541.25	490.73	455.21	397.69	314.19	265.67	201.62	153.09	109.58	74.06	y (2+)
y-79.97 (2+)		585.31	536.79	501.27	450.74	415.22	357.71							y-79.97 (2+)
y-97.98 (2+)		576.31	527.78	492.26	441.74	406.22	348.71							y-97.98 (2+)
	R	P	A	T	A	D	S	P	K	P	S	A	K	
	13	12	11	10	9	8	7	6	5	4	3	2	1	

RPATADS(+79.97)PKPSAK

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 469.232, Calc. m/z: 469.234
Data File: Pepmix1_HCD.RAW.-1, Scans: 522 - 522

Max Intensity: 1.89e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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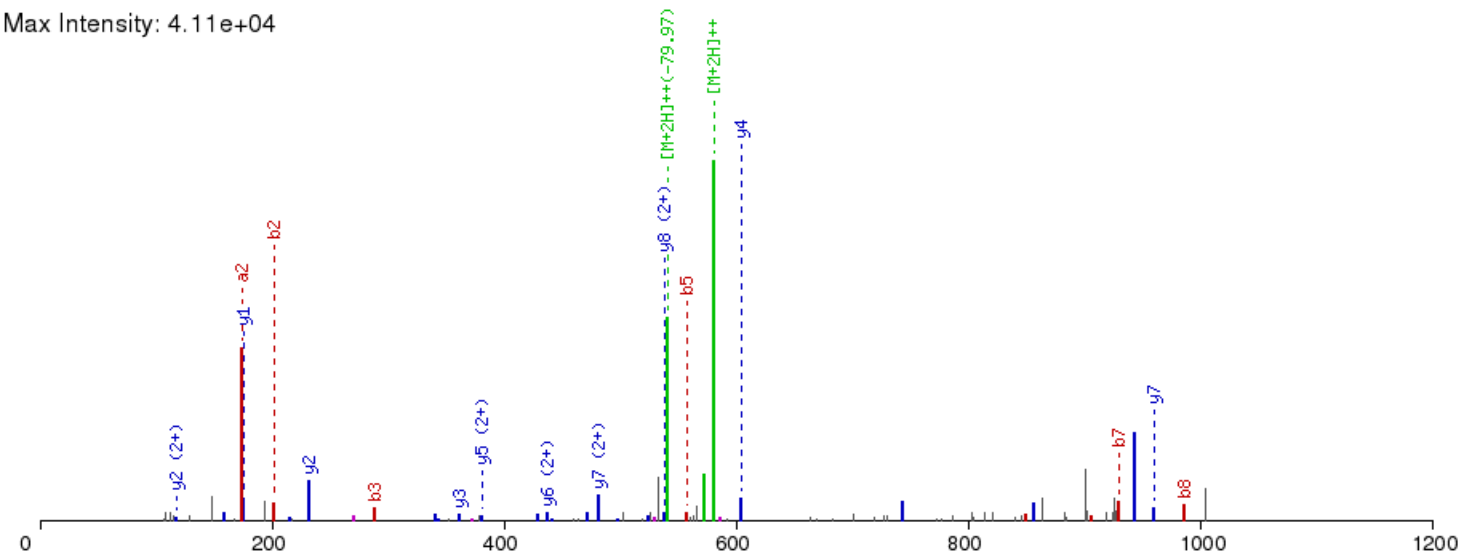
	R	P	A	T	A	D	S	P	K	P	S	A	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	
a		226.17												a
a (2+)		113.59												a (2+)
b		254.16	325.20	426.25	497.28	612.31	779.31	876.36	1004.46	1101.51	1188.54	1259.58		b
b-79.97							699.34	796.39	924.49	1021.54	1108.57	1179.61		b-79.97
b-97.98							681.33	778.38	906.48	1003.53	1090.56	1161.60		b-97.98
b (2+)		127.58	163.10	213.63	249.15	306.66	390.16	438.68	502.73	551.26	594.77	630.29		b (2+)
b-79.97 (2+)							350.17	398.70	462.75	511.27	554.79	590.31		b-79.97 (2+)
b-97.98 (2+)							341.17	389.70	453.74	502.27	545.79	581.30		b-97.98 (2+)
b (3+)									335.49	367.84	396.85	420.53		b (3+)
b-79.97 (3+)									308.83	341.19	370.20	393.88		b-79.97 (3+)
b-97.98 (3+)									302.83	335.18	364.19	387.87		b-97.98 (3+)
y		1249.58	1152.53	1081.49	980.44	909.41	794.38	627.38	530.33	402.23	305.18	218.15	147.11	y
y-79.97		1169.62	1072.56	1001.53	900.48	829.44	714.41							y-79.97
y-97.98		1151.61	1054.55	983.52	882.47	811.43	696.40							y-97.98
y (2+)		625.29	576.77	541.25	490.73	455.21	397.69	314.19	265.67	201.62	153.09	109.58	74.06	y (2+)
y-79.97 (2+)		585.31	536.79	501.27	450.74	415.22	357.71							y-79.97 (2+)
y-97.98 (2+)		576.31	527.78	492.26	441.74	406.22	348.71							y-97.98 (2+)
y (3+)		417.20	384.85	361.17	327.49	303.81	265.47	209.80	177.45					y (3+)
y-79.97 (3+)		390.54	358.19	334.51	300.83	277.15	238.81							y-79.97 (3+)
y-97.98 (3+)		384.54	352.19	328.51	294.83	271.15	232.81							y-97.98 (3+)
	R	P	A	T	A	D	S	P	K	P	S	A	K	
	13	12	11	10	9	8	7	6	5	4	3	2	1	

SISLRY(+79.97)EGR

Identified in MSS769 1 x Phospho (Y)

Charge: 2, Exp. m/z: 580.777, Calc. m/z: 580.782
Data File: Pepmix2_HCD.RAW.-1, Scans: 1127 - 1127

Max Intensity: 4.11e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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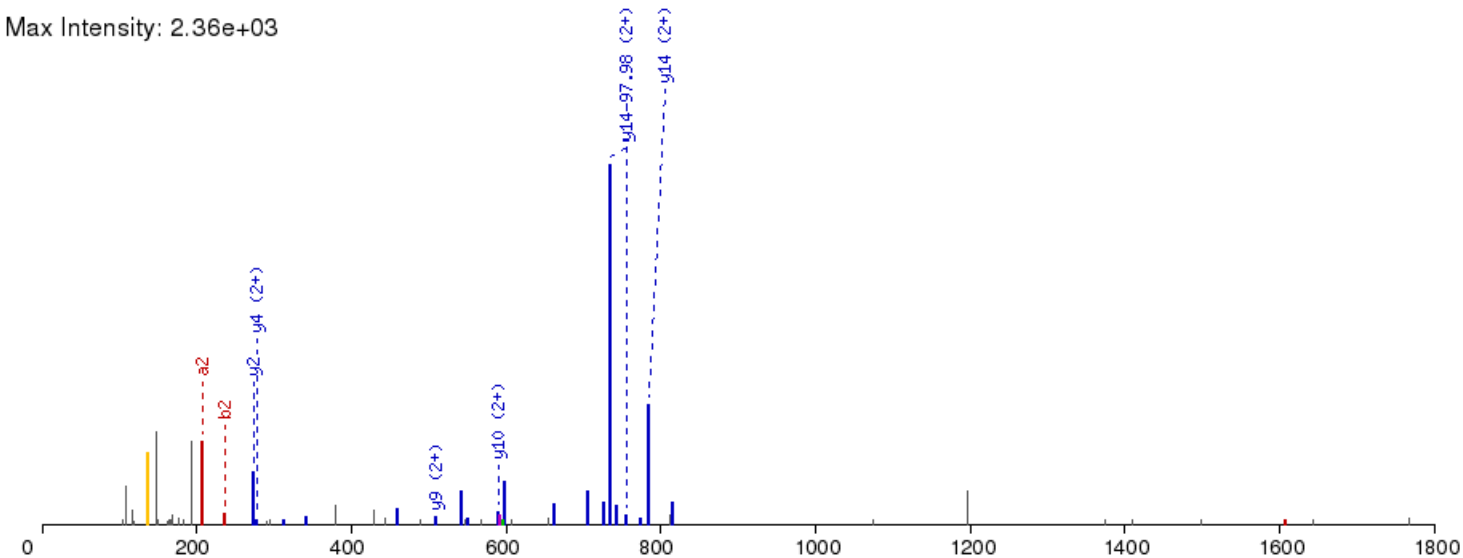
	S	I	S	L	R	Y	E	G	R	
	1	2	3	4	5	6	7	8	9	
a		173.13								a
b		201.12	288.16	401.24	557.34	800.37	929.41	986.43		b
b-79.97						720.40	849.45	906.47		b-79.97
b (2+)					279.17	400.69	465.21	493.72		b (2+)
b-79.97 (2+)						360.71	425.23	453.74		b-79.97 (2+)
y		1073.51	960.43	873.40	760.31	604.21	361.18	232.14	175.12	y
y-79.97		993.55	880.46	793.43	680.35	524.25				y-79.97
y (2+)		537.26	480.72	437.20	380.66	302.61	181.10	116.57	88.06	y (2+)
y-79.97 (2+)		497.28	440.74	397.22	340.68	262.63				y-79.97 (2+)
	S	I	S	L	R	Y	E	G	R	
	9	8	7	6	5	4	3	2	1	

AYGSELYGPRPLS(+79.97)PR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 600.621, Calc. m/z: 600.624
Data File: Pepmix3_HCD.RAW.-1, Scans: 1504 - 1504

Max Intensity: 2.36e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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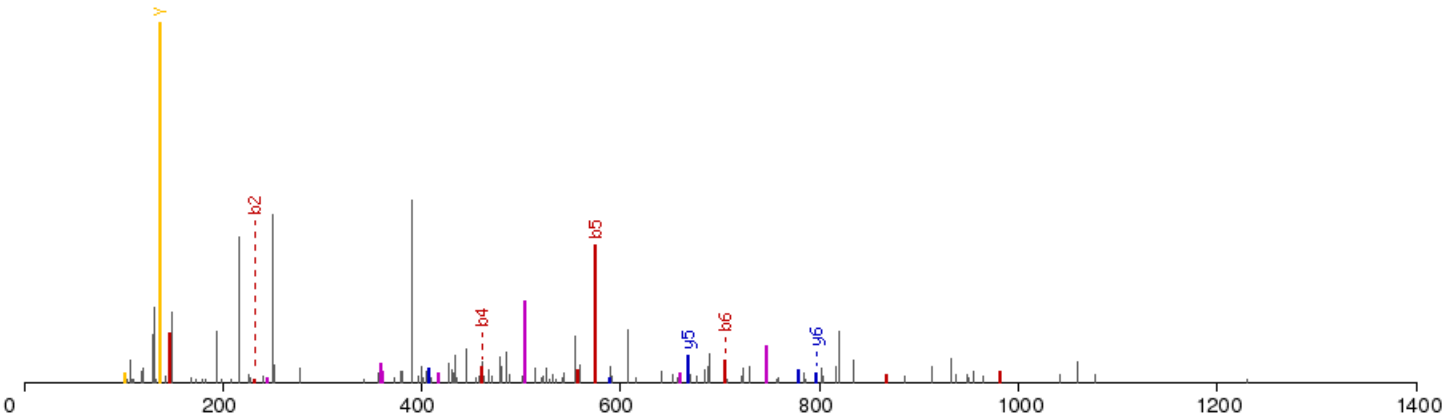
	A	Y	G	S	E	L	Y	G	P	G	R	P	L	S	P	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
a		207.11															a
b		235.11	292.13	379.16	508.20	621.29	784.35	841.37	938.43	995.45	1151.55	1248.60	1361.68	1528.68	1625.74		b
b-79.97														1448.72	1545.77		b-79.97
b-97.98														1430.71	1527.76		b-97.98
b (2+)											576.28	624.80	681.35	764.85	813.37		b (2+)
b-79.97 (2+)														724.86	773.39		b-79.97 (2+)
b-97.98 (2+)														715.86	764.38		b-97.98 (2+)
y		1728.81	1565.75	1508.73	1421.69	1292.65	1179.57	1016.50	959.48	862.43	805.41	649.31	552.25	439.17	272.17	175.12	y
y-79.97		1648.84	1485.78	1428.76	1341.73	1212.68	1099.60	936.54	879.52	782.46	725.44	569.34	472.29	359.20			y-79.97
y-97.98		1630.83	1467.77	1410.75	1323.72	1194.67	1081.59	918.53	861.51	764.45	707.43	551.33	454.28	341.19			y-97.98
y (2+)		864.91	783.38	754.87	711.35	646.83	590.29	508.76	480.24	431.72	403.21	325.16	276.63	220.09	136.59	88.06	y (2+)
y-79.97 (2+)		824.93	743.39	714.88	671.37	606.85	550.30	468.77	440.26	391.74	363.22	285.17	236.65	180.11			y-79.97 (2+)
y-97.98 (2+)		815.92	734.39	705.88	662.36	597.84	541.30	459.77	431.26	382.73	354.22	276.17	227.64	171.10			y-97.98 (2+)
y (3+)		576.94	522.59	503.58	474.57	431.56	393.86	339.51	320.50	288.15	269.14						y (3+)
y-79.97 (3+)		550.29	495.93	476.92	447.91	404.90	367.21	312.85	293.84	261.49	242.49						y-79.97 (3+)
y-97.98 (3+)		544.28	489.93	470.92	441.91	398.90	361.20	306.85	287.84	255.49	236.48						y-97.98 (3+)
	A	Y	G	S	E	L	Y	G	P	G	R	P	L	S	P	R	
	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

AC(+57.02)LDDEY(+79.97)DGSM(+15.99)

Identified in MSS769 1 x Phospho (Y) 1 x Carbamidomethyl (C) 1 x Oxidation (M)

Charge: 2, Exp. m/z: 686.209, Calc. m/z: 686.207
Data File: Pepmix2_HCD.RAW.-1, Scans: 1224 - 1224

Max Intensity: 4.13e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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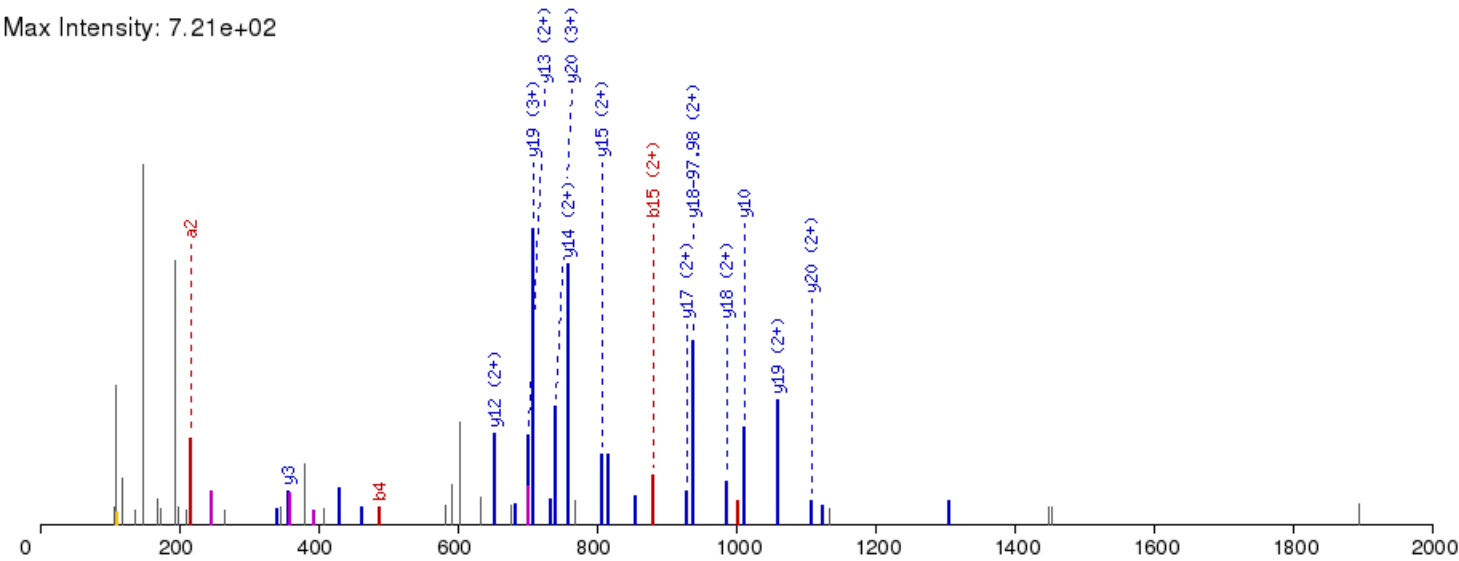
	A	C	L	D	D	E	Y	D	G	S	M	
	1	2	3	4	5	6	7	8	9	10	11	
a		204.08										a
a-57.02		147.06										a-57.02
b		232.08	345.16	460.19	575.21	704.26	947.29	1062.31	1119.33	1206.37		b
b-18.01				442.18	557.20	686.25	929.27	1044.30	1101.32	1188.36		b-18.01
b-57.02		175.05	288.14	403.16	518.19	647.23	890.26	1005.29	1062.31	1149.34		b-57.02
b-79.97							867.32	982.35	1039.37	1126.40		b-79.97
y		1300.37	1140.34	1027.26	912.23	797.21	668.16	425.13	310.11	253.09	166.05	y
y-18.01		1282.36	1122.33	1009.25	894.22	779.20	650.15	407.12	292.10	235.07		y-18.01
y-57.02		1243.35										y-57.02
y-79.97		1220.41	1060.38	947.29	832.27	717.24	588.20					y-79.97
	A	C	L	D	D	E	Y	D	G	S	M	
	11	10	9	8	7	6	5	4	3	2	1	

EIPFNEDPNPNT(+79.97)HSSGPSTPLK

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 820.037, Calc. m/z: 820.037
Data File: Pepmix3_HCD.RAW.-1, Scans: 1546 - 1546

Max Intensity: 7.21e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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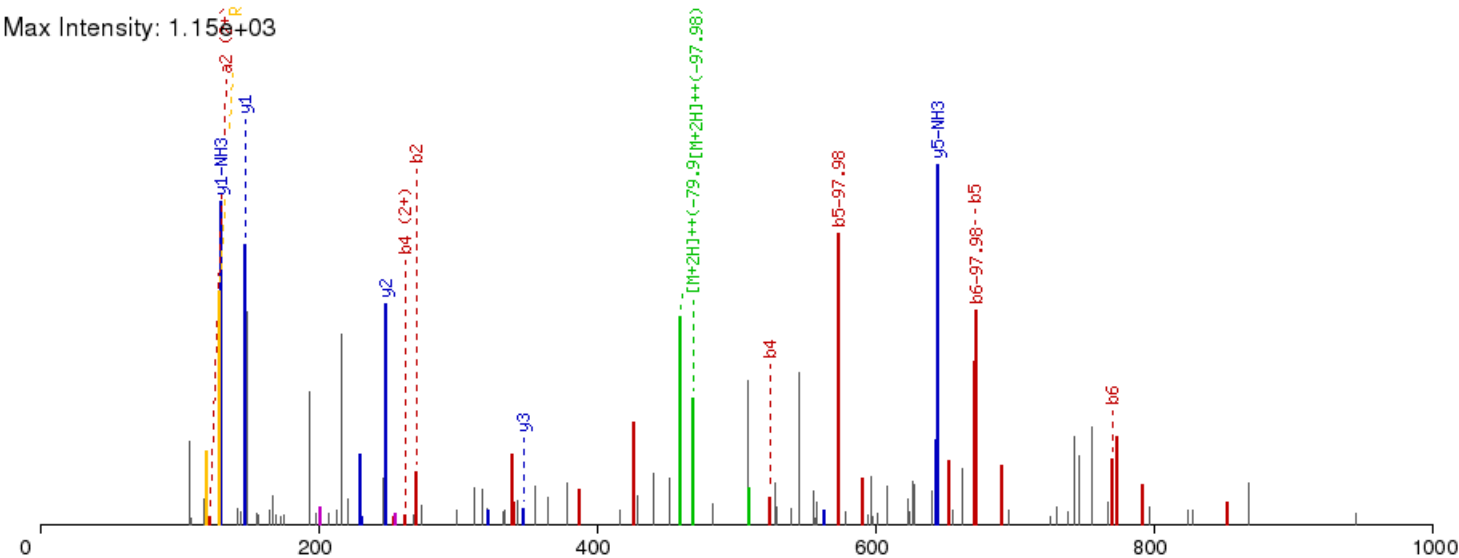
	E	I	P	F	N	E	D	P	N	P	N	T	H	S	S	G	P	S	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
a		215.14																	a
b		243.13	340.19	487.26	601.30	730.34	845.37	942.42	1056.46	1153.52	1267.56	1448.57	1585.63	1672.66	1759.70	1816.72	1913.77	2000.80	b
b-79.97												1368.61	1505.67	1592.70	1679.73	1736.75	1833.80	1920.84	b-79.97
b-97.98												1350.60	1487.65	1574.69	1661.72	1718.74	1815.79	1902.83	b-97.98
b (2+)													793.32	836.84	880.35	908.86	957.39	1000.90	b (2+)
b-79.97 (2+)													753.34	796.85	840.37	868.88	917.41	960.92	b-79.97 (2+)
b-97.98 (2+)													744.33	787.85	831.36	859.87	908.40	951.92	b-97.98 (2+)
y		2329.05	2215.97	2118.91	1971.84	1857.80	1728.76	1613.73	1516.68	1402.64	1305.58	1191.54	1010.53	873.47	786.44	699.40	642.38	545.33	y
y-79.97		2249.08	2136.00	2038.95	1891.88	1777.84	1648.79	1533.77	1436.71	1322.67	1225.62	1111.57							y-79.97
y-97.98		2231.07	2117.99	2020.94	1873.87	1759.82	1630.78	1515.76	1418.70	1304.66	1207.61	1093.56							y-97.98
y (2+)		1165.03	1108.49	1059.96	986.43	929.40	864.88	807.37	758.84	701.82	653.30	596.27	505.77	437.24	393.72	350.21	321.69	273.17	y (2+)
y-79.97 (2+)		1125.05	1068.50	1019.98	946.44	889.42	824.90	767.39	718.86	661.84	613.31	556.29							y-79.97 (2+)
y-97.98 (2+)		1116.04	1059.50	1010.97	937.44	880.42	815.89	758.38	709.85	652.83	604.31	547.29							y-97.98 (2+)
y (3+)		777.02	739.33	706.98	657.95	619.94	576.92	538.58	506.23	468.22	435.87	397.85	337.51						y (3+)
y-79.97 (3+)		750.37	712.67	680.32	631.30	593.28	550.27	511.93	479.58	441.56	409.21	371.20							y-79.97 (3+)
y-97.98 (3+)		744.36	706.67	674.32	625.29	587.28	544.27	505.92	473.57	435.56	403.21	365.19							y-97.98 (3+)
	E	I	P	F	N	E	D	P	N	P	N	T	H	S	S	G	P	S	
	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	

	T	P	L	K	
	19	20	21	22	
a					a
b	2101.85	2198.90	2311.99		b
b-79.97	2021.88	2118.94	2232.02		b-79.97
b-97.98	2003.87	2100.93	2214.01		b-97.98
b (2+)	1051.43	1099.95	1156.50		b (2+)
b-79.97 (2+)	1011.45	1059.97	1116.51		b-79.97 (2+)
b-97.98 (2+)	1002.44	1050.97	1107.51		b-97.98 (2+)
y	458.30	357.25	260.20	147.11	y
y-79.97					y-79.97
y-97.98					y-97.98
y (2+)	229.65	179.13	130.60	74.06	y (2+)
y-79.97 (2+)					y-79.97 (2+)
y-97.98 (2+)					y-97.98 (2+)
y (3+)					y (3+)
y-79.97 (3+)					y-79.97 (3+)
y-97.98 (3+)					y-97.98 (3+)
	T	P	L	K	
	4	3	2	1	

RLSS(+79.97)FVTK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 509.260, Calc. m/z: 509.262
Data File: Pepmix1_HCD.RAW.-1, Scans: 1338 - 1338



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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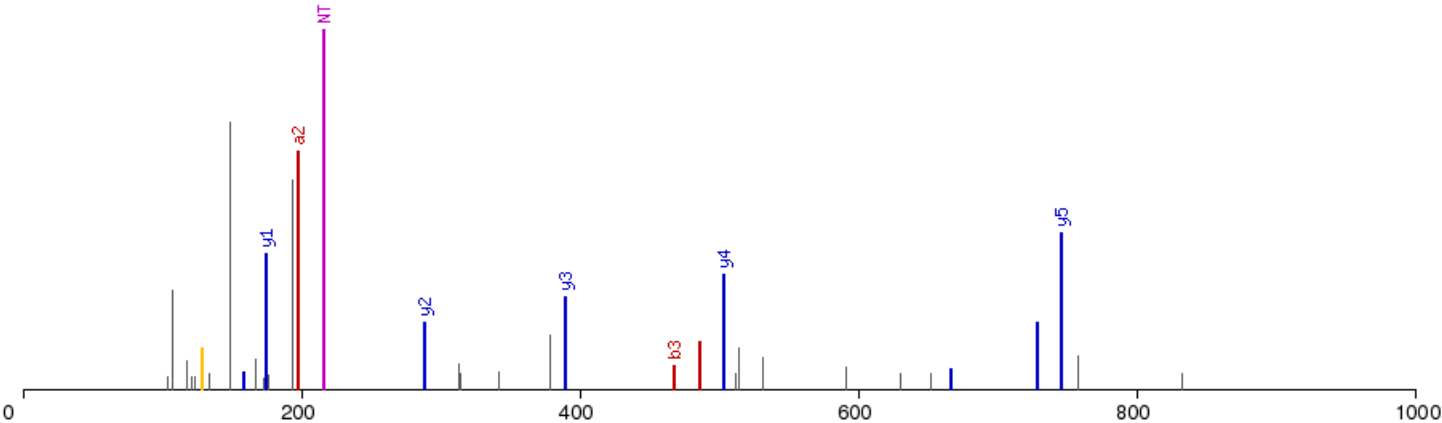
	R	L	S	S	F	V	T	K	
	1	2	3	4	5	6	7	8	
a		242.20							a
a (2+)		121.60							a (2+)
b		270.19	357.22	524.22	671.29	770.36	871.41		b
b-79.97				444.26	591.32	690.39	791.44		b-79.97
b-97.98				426.25	573.31	672.38	773.43		b-97.98
b (2+)		135.60	179.12	262.62	336.15	385.68	436.21		b (2+)
b-79.97 (2+)				222.63	296.17	345.70	396.22		b-79.97 (2+)
b-97.98 (2+)				213.63	287.16	336.70	387.22		b-97.98 (2+)
y		861.41	748.33	661.30	494.30	347.23	248.16	147.11	y
y-79.97		781.45	668.36	581.33					y-79.97
y-97.98		763.43	650.35	563.32					y-97.98
y (2+)		431.21	374.67	331.15	247.65	174.12	124.58	74.06	y (2+)
y-79.97 (2+)		391.23	334.68	291.17					y-79.97 (2+)
y-97.98 (2+)		382.22	325.68	282.16					y-97.98 (2+)
	R	L	S	S	F	V	T	K	
	8	7	6	5	4	3	2	1	

E(+/-18.01)IY(+79.97)NTIR

Identified in MSS769 1 x Phospho (Y) 1 x Glu->pyro-Glu (N-term E)

Charge: 2, Exp. m/z: 485.723, Calc. m/z: 485.723
Data File: Pepmix3_HCD.RAW.-1, Scans: 1421 - 1421

Max Intensity: 8.46e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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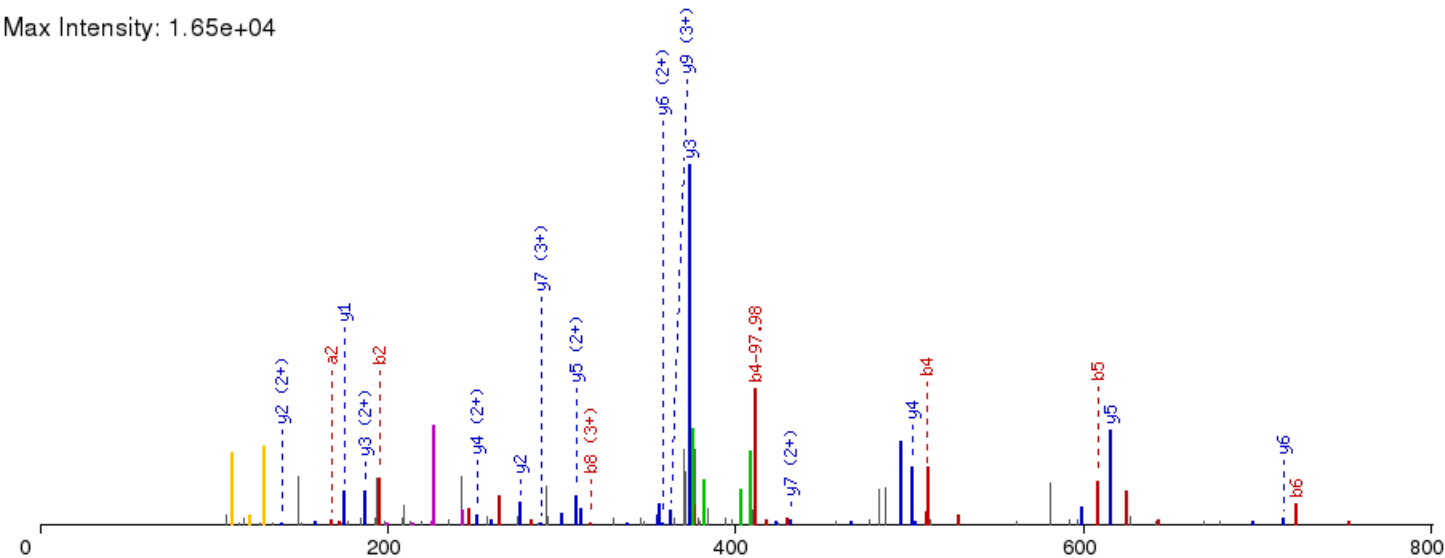
	E	I	Y	N	T	I	R	
	1	2	3	4	5	6	7	
a		197.13						a
b		225.12	468.15	582.20	683.24	796.33		b
b-79.97			388.19	502.23	603.28	716.36		b-79.97
y		859.41	746.32	503.29	389.25	288.20	175.12	y
y-79.97		779.44	666.36					y-79.97
y (2+)		430.21	373.67	252.15	195.13	144.61	88.06	y (2+)
y-79.97 (2+)		390.22	333.68					y-79.97 (2+)
	E	I	Y	N	T	I	R	
	7	6	5	4	3	2	1	

HGS(+79.97)FVNKPTR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 408.201, Calc. m/z: 408.197
Data File: Pepmix2_HCD.RAW.-1, Scans: 756 - 756

Max Intensity: 1.65e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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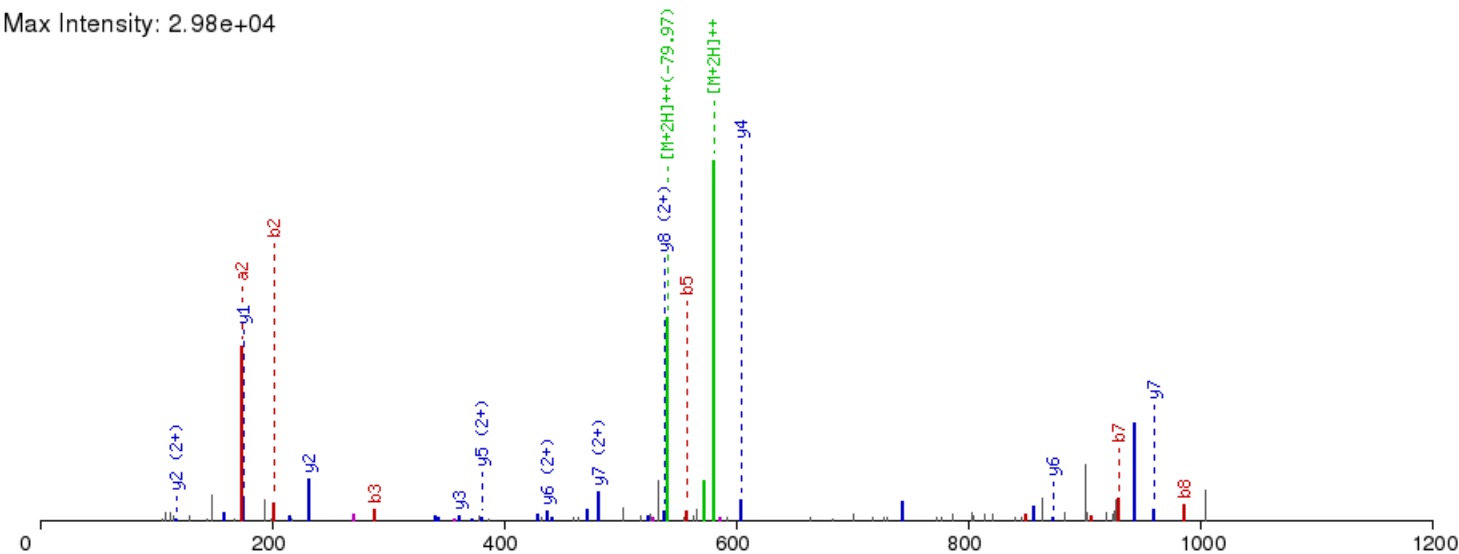
	H	G	S	F	V	N	K	P	T	R	
	1	2	3	4	5	6	7	8	9	10	
a		167.09									a
a (2+)		84.05									a (2+)
b		195.09	362.09	509.15	608.22	722.27	850.36	947.41	1048.46		b
b-79.97			282.12	429.19	528.26	642.30	770.39	867.45	968.49		b-79.97
b-97.98			264.11	411.18	510.25	624.29	752.38	849.44	950.48		b-97.98
b (2+)		98.05	181.55	255.08	304.62	361.64	425.68	474.21	524.73		b (2+)
b-79.97 (2+)			141.56	215.10	264.63	321.65	385.70	434.23	484.75		b-79.97 (2+)
b-97.98 (2+)			132.56	206.09	255.63	312.65	376.70	425.22	475.75		b-97.98 (2+)
b (3+)							284.13	316.48	350.16		b (3+)
b-79.97 (3+)							257.47	289.82	323.50		b-79.97 (3+)
b-97.98 (3+)							251.47	283.82	317.50		b-97.98 (3+)
y		1085.51	1028.49	861.49	714.43	615.36	501.31	373.22	276.17	175.12	y
y-79.97		1005.55	948.53								y-79.97
y-97.98		987.54	930.52								y-97.98
y (2+)		543.26	514.75	431.25	357.72	308.18	251.16	187.11	138.59	88.06	y (2+)
y-79.97 (2+)		503.28	474.77								y-79.97 (2+)
y-97.98 (2+)		494.27	465.76								y-97.98 (2+)
y (3+)		362.51	343.50	287.84	238.81	205.79	167.78				y (3+)
y-79.97 (3+)		335.85	316.85								y-79.97 (3+)
y-97.98 (3+)		329.85	310.84								y-97.98 (3+)
	H	G	S	F	V	N	K	P	T	R	
	10	9	8	7	6	5	4	3	2	1	

SISLRY(+79.97)EGR

Identified in MSS769 1 x Phospho (Y)

Charge: 2, Exp. m/z: 580.777, Calc. m/z: 580.782
Data File: Pepmix2_HCD.RAW.-1, Scans: 1122 - 1122

Max Intensity: 2.98e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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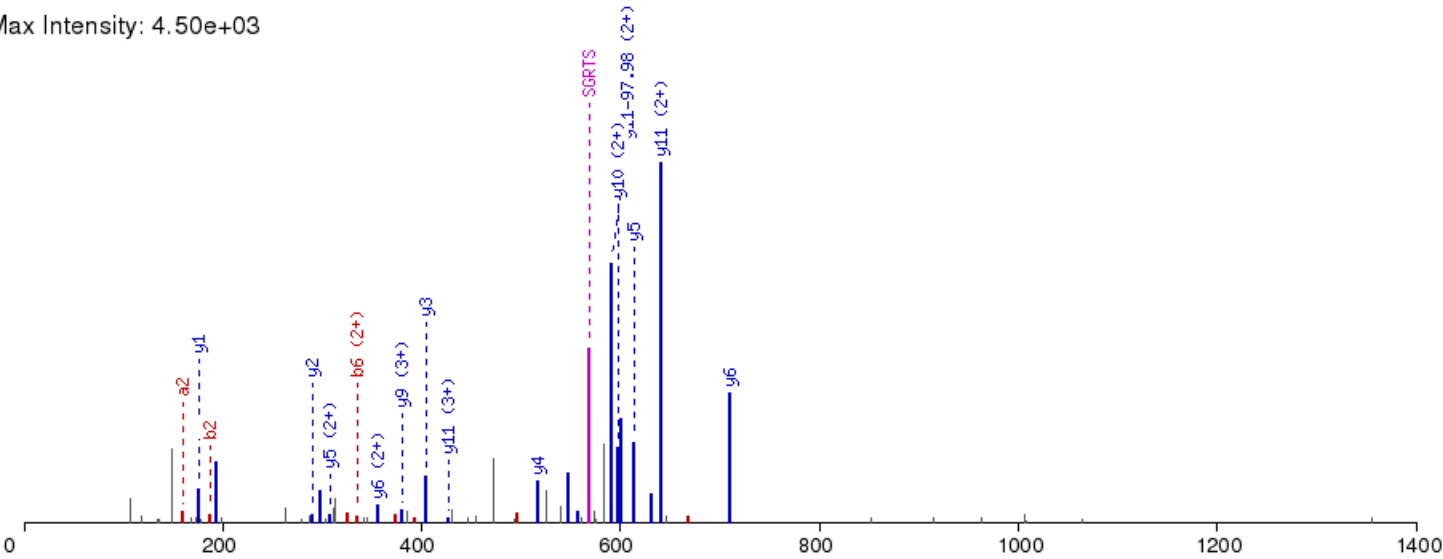
	S	I	S	L	R	Y	E	G	R	
	1	2	3	4	5	6	7	8	9	
a		173.13								a
b		201.12	288.16	401.24	557.34	800.37	929.41	986.43		b
b-79.97						720.40	849.45	906.47		b-79.97
b (2+)					279.17	400.69	465.21	493.72		b (2+)
b-79.97 (2+)						360.71	425.23	453.74		b-79.97 (2+)
y		1073.51	960.43	873.40	760.31	604.21	361.18	232.14	175.12	y
y-79.97		993.55	880.46	793.43	680.35	524.25				y-79.97
y (2+)		537.26	480.72	437.20	380.66	302.61	181.10	116.57	88.06	y (2+)
y-79.97 (2+)		497.28	440.74	397.22	340.68	262.63				y-79.97 (2+)
	S	I	S	L	R	Y	E	G	R	
	9	8	7	6	5	4	3	2	1	

VSGRTS(+79.97)PPLDR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 459.901, Calc. m/z: 459.904
Data File: Pepmix5_HCD.RAW.-1, Scans: 1163 - 1163

Max Intensity: 4.50e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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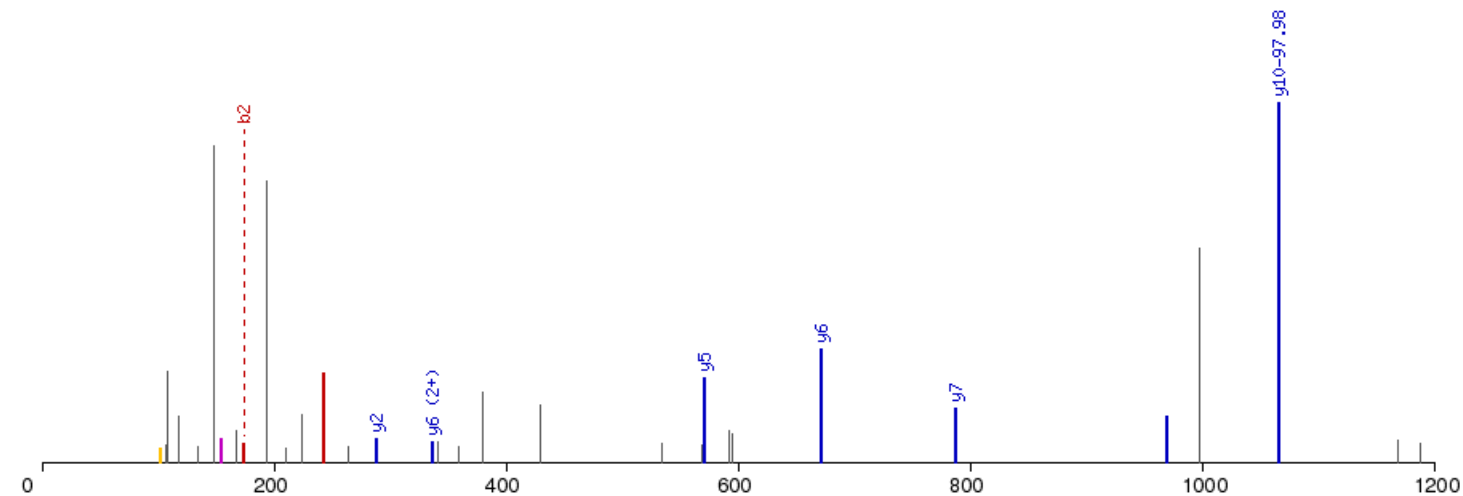
	V	S	G	R	T	S	P	P	L	L	D	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		159.11											a
b		187.11	244.13	400.23	501.28	668.28	765.33	862.38	975.47	1088.55	1203.58		b
b-79.97						588.31	685.36	782.42	895.50	1008.58	1123.61		b-79.97
b-97.98						570.30	667.35	764.40	877.49	990.57	1105.60		b-97.98
b (2+)				200.62	251.14	334.64	383.17	431.69	488.24	544.78	602.29		b (2+)
b-79.97 (2+)						294.66	343.19	391.71	448.25	504.80	562.31		b-79.97 (2+)
b-97.98 (2+)						285.65	334.18	382.71	439.25	495.79	553.30		b-97.98 (2+)
y		1278.62	1191.59	1134.57	978.47	877.42	710.42	613.37	516.31	403.23	290.15	175.12	y
y-79.97		1198.65	1111.62	1054.60	898.50	797.45							y-79.97
y-97.98		1180.64	1093.61	1036.59	880.49	779.44							y-97.98
y (2+)		639.81	596.30	567.79	489.74	439.21	355.71	307.19	258.66	202.12	145.58	88.06	y (2+)
y-79.97 (2+)		599.83	556.31	527.80	449.75	399.23							y-79.97 (2+)
y-97.98 (2+)		590.83	547.31	518.80	440.75	390.22							y-97.98 (2+)
y (3+)		426.88	397.87	378.86									y (3+)
y-79.97 (3+)		400.22	371.21	352.20									y-79.97 (3+)
y-97.98 (3+)		394.22	365.21	346.20									y-97.98 (3+)
	V	S	G	R	T	S	P	P	L	L	D	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

ATSLPS(+79.97)LDTPGELR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 768.870, Calc. m/z: 768.872
Data File: Pepmix5_HCD.RAW.-1, Scans: 1700 - 1700

Max Intensity: 6.88e+02



Sequence Ladder Ions

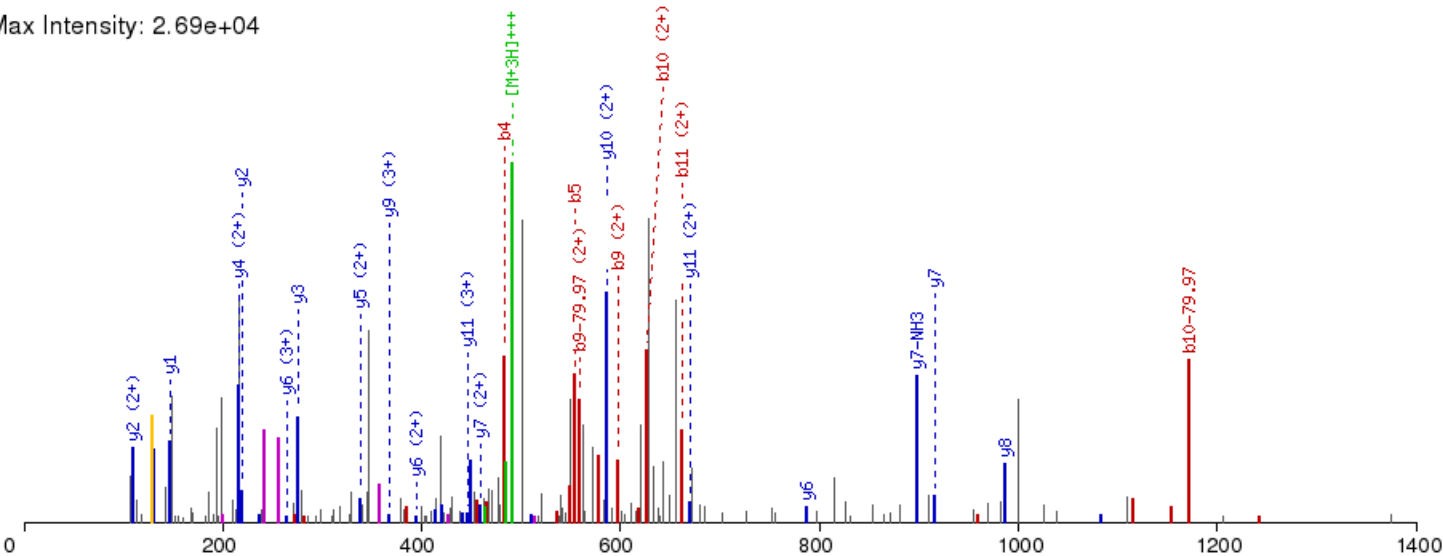
Key: m/z out of range of spectrum matched c-term ion unmatched c-term ion matched n-term ion unmatched n-term ion															
	A	T	S	L	P	S	L	D	T	P	G	E	L	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		145.10													a
b		173.09	260.12	373.21	470.26	637.26	750.34	865.37	966.42	1063.47	1120.49	1249.53	1362.62		b
b-79.97						557.29	670.38	785.40	886.45	983.50	1040.53	1169.57	1282.65		b-79.97
b-97.98						539.28	652.37	767.39	868.44	965.49	1022.52	1151.56	1264.64		b-97.98
y		1465.69	1364.65	1277.61	1164.53	1067.48	900.48	787.39	672.37	571.32	474.27	417.25	288.20	175.12	y
y-79.97		1385.73	1284.68	1197.65	1084.56	987.51									y-79.97
y-97.98		1367.72	1266.67	1179.64	1066.55	969.50									y-97.98
y (2+)		733.35	682.83	639.31	582.77	534.24	450.74	394.20	336.69	286.16	237.64	209.13	144.61	88.06	y (2+)
y-79.97 (2+)		693.37	642.84	599.33	542.79	494.26									y-79.97 (2+)
y-97.98 (2+)		684.36	633.84	590.32	533.78	485.25									y-97.98 (2+)
	A	T	S	L	P	S	L	D	T	P	G	E	L	R	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

MS(+79.97)ALAQLY(+79.97)RGAK

Identified in MSS769 1 x Phospho (Y) 1 x Phospho (ST)

Charge: 3, Exp. m/z: 490.219, Calc. m/z: 490.217
Data File: Pepmix2_HCD.RAW.-1, Scans: 656 - 656

Max Intensity: 2.69e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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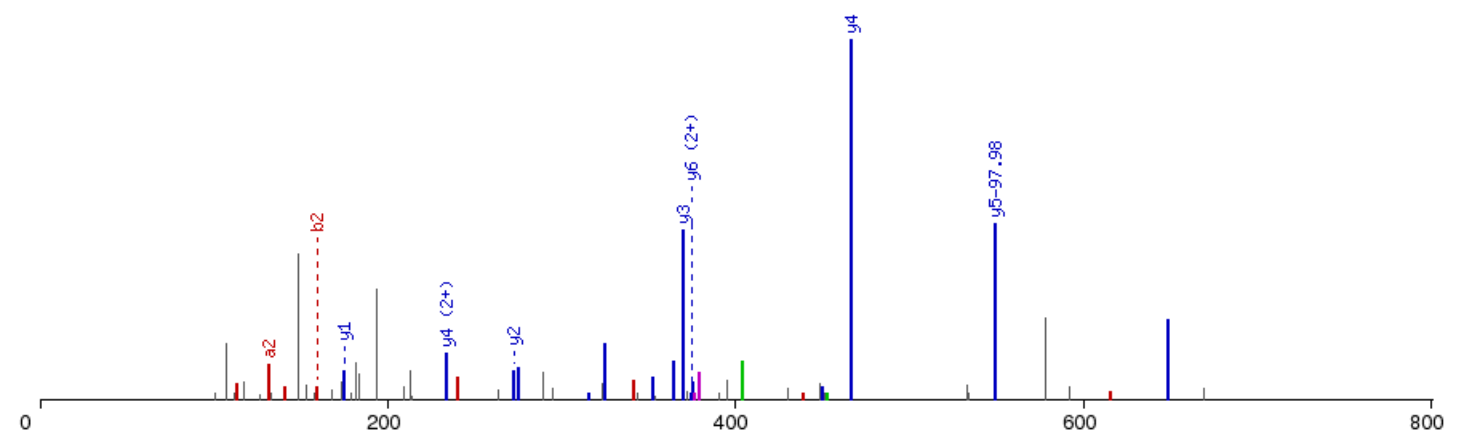
	M	S	A	L	A	Q	L	Y	R	G	A	K	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		271.05											a
a-79.97		191.08											a-79.97
a-97.98		173.07											a-97.98
b		299.05	370.08	483.17	554.20	682.26	795.35	1038.38	1194.48	1251.50	1322.54		b
b-79.97		219.08	290.12	403.20	474.24	602.30	715.38	958.41	1114.51	1171.53	1242.57		b-79.97
b-97.98		201.07	272.11	385.19	456.23	584.29	697.37	940.40	1096.50	1153.52	1224.56		b-97.98
b (2+)									597.74	626.25	661.77		b (2+)
b-79.97 (2+)									557.76	586.27	621.79		b-79.97 (2+)
b-97.98 (2+)									548.75	577.26	612.78		b-97.98 (2+)
y		1337.60	1170.60	1099.57	986.48	915.44	787.39	674.30	431.27	275.17	218.15	147.11	y
y-79.97		1257.64	1090.64	1019.60	906.52	835.48	707.42	594.34					y-79.97
y-97.98		1239.62											y-97.98
y (2+)		669.30	585.81	550.29	493.74	458.23	394.20	337.65	216.14	138.09	109.58	74.06	y (2+)
y-79.97 (2+)		629.32	545.82	510.30	453.76	418.24	354.21	297.67					y-79.97 (2+)
y-97.98 (2+)		620.32											y-97.98 (2+)
y (3+)		446.54	390.87	367.19	329.50	305.82	263.13	225.44	144.43				y (3+)
y-79.97 (3+)		419.88	364.22	340.54	302.84	279.16	236.48	198.78					y-79.97 (3+)
y-97.98 (3+)		413.88											y-97.98 (3+)
	M	S	A	L	A	Q	L	Y	R	G	A	K	
	12	11	10	9	8	7	6	5	4	3	2	1	

GTVT(+79.97)PPPR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 452.724, Calc. m/z: 452.722
Data File: Pepmix3_HCD.RAW.-1, Scans: 788 - 788

Max Intensity: 1.79e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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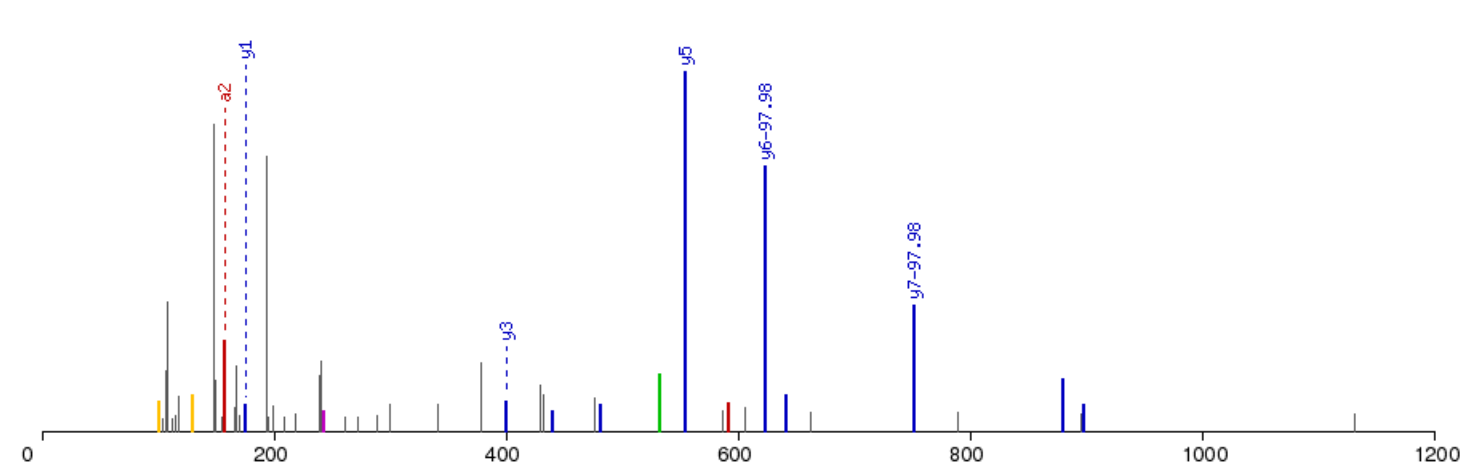
	G	T	V	T	P	P	P	R	
	1	2	3	4	5	6	7	8	
a		131.08							a
b		159.08	258.14	439.16	536.21	633.26	730.32		b
b-79.97				359.19	456.25	553.30	650.35		b-79.97
b-97.98				341.18	438.23	535.29	632.34		b-97.98
y		847.41	746.36	647.29	466.28	369.22	272.17	175.12	y
y-79.97		767.44	666.39	567.32					y-79.97
y-97.98		749.43	648.38	549.31					y-97.98
y (2+)		424.21	373.68	324.15	233.64	185.12	136.59	88.06	y (2+)
y-79.97 (2+)		384.22	333.70	284.17					y-79.97 (2+)
y-97.98 (2+)		375.22	324.70	275.16					y-97.98 (2+)
	G	T	V	T	P	P	P	R	
	8	7	6	5	4	3	2	1	

ALQKS(+79.97)PGPQR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 581.292, Calc. m/z: 581.297
Data File: Pepmix3_HCD.RAW.-1, Scans: 608 - 608

Max Intensity: 6.85e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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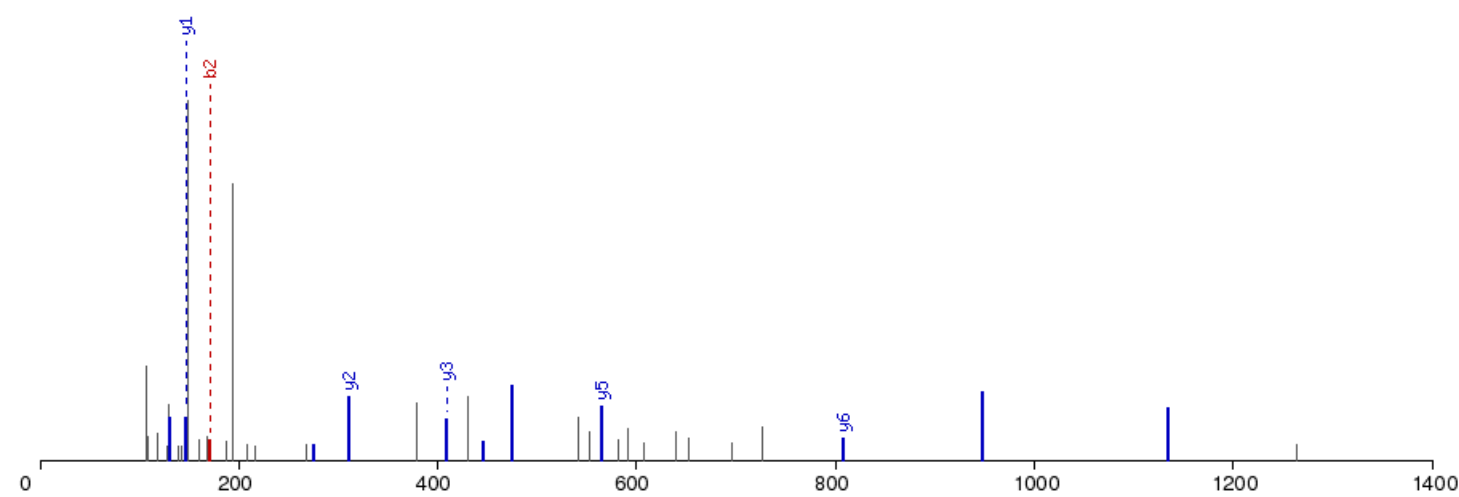
	A	L	Q	K	S	P	G	P	Q	R	
	1	2	3	4	5	6	7	8	9	10	
a		157.13									a
b		185.13	313.19	441.28	608.28	705.33	762.35	859.41	987.47		b
b-79.97					528.31	625.37	682.39	779.44	907.50		b-79.97
b-97.98					510.30	607.36	664.38	761.43	889.49		b-97.98
b (2+)				221.14	304.64	353.17	381.68	430.21	494.24		b (2+)
b-79.97 (2+)					264.66	313.19	341.70	390.22	454.25		b-79.97 (2+)
b-97.98 (2+)					255.66	304.18	332.69	381.22	445.25		b-97.98 (2+)
y		1090.54	977.46	849.40	721.30	554.30	457.25	400.23	303.18	175.12	y
y-79.97		1010.57	897.49	769.43	641.34						y-79.97
y-97.98		992.56	879.48	751.42	623.33						y-97.98
y (2+)		545.77	489.23	425.20	361.16	277.66	229.13	200.62	152.09	88.06	y (2+)
y-79.97 (2+)		505.79	449.25	385.22	321.17						y-79.97 (2+)
y-97.98 (2+)		496.79	440.24	376.21	312.17						y-97.98 (2+)
	A	L	Q	K	S	P	G	P	Q	R	
	10	9	8	7	6	5	4	3	2	1	

IGEGT(+79.97)Y(+79.97)GVVYK

Identified in MSS769 1 x Phospho (Y) 1 x Phospho (ST)

Charge: 2, Exp. m/z: 673.278, Calc. m/z: 673.282
Data File: Pepmix1_HCD.RAW.-1, Scans: 1423 - 1423

Max Intensity: 6.98e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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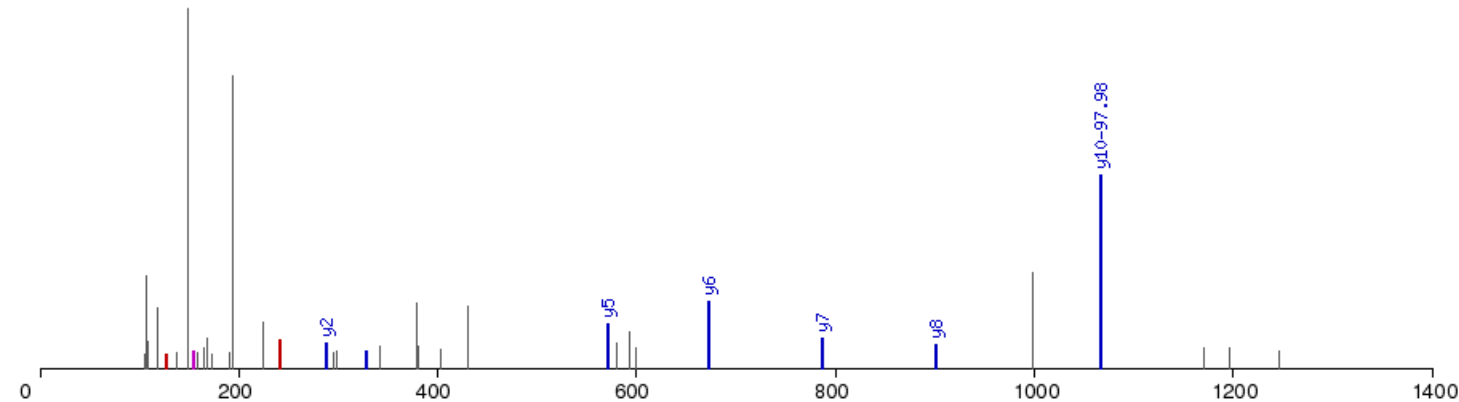
	I	G	E	G	T	Y	G	V	V	Y	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		143.12										a
b		171.11	300.16	357.18	538.19	781.22	838.24	937.31	1036.38	1199.44		b
b-79.97					458.22	701.25	758.28	857.34	956.41	1119.48		b-79.97
b-97.98					440.21	683.24	740.27	839.33	938.40	1101.47		b-97.98
y		1232.46	1175.44	1046.40	989.38	808.36	565.33	508.31	409.24	310.18	147.11	y
y-79.97		1152.50	1095.48	966.43	909.41	728.40						y-79.97
y-97.98		1134.49	1077.47	948.42	891.40							y-97.98
y (2+)		616.74	588.22	523.70	495.19	404.69	283.17	254.66	205.13	155.59	74.06	y (2+)
y-79.97 (2+)		576.75	548.24	483.72	455.21	364.70						y-79.97 (2+)
y-97.98 (2+)		567.75	539.24	474.71	446.20							y-97.98 (2+)
	I	G	E	G	T	Y	G	V	V	Y	K	
	11	10	9	8	7	6	5	4	3	2	1	

ATSLPS(+79.97)LDTPGELR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 768.870, Calc. m/z: 768.872
Data File: Pepmix5_HCD.RAW.-1, Scans: 1671 - 1671

Max Intensity: 6.34e+02



Sequence Ladder Ions

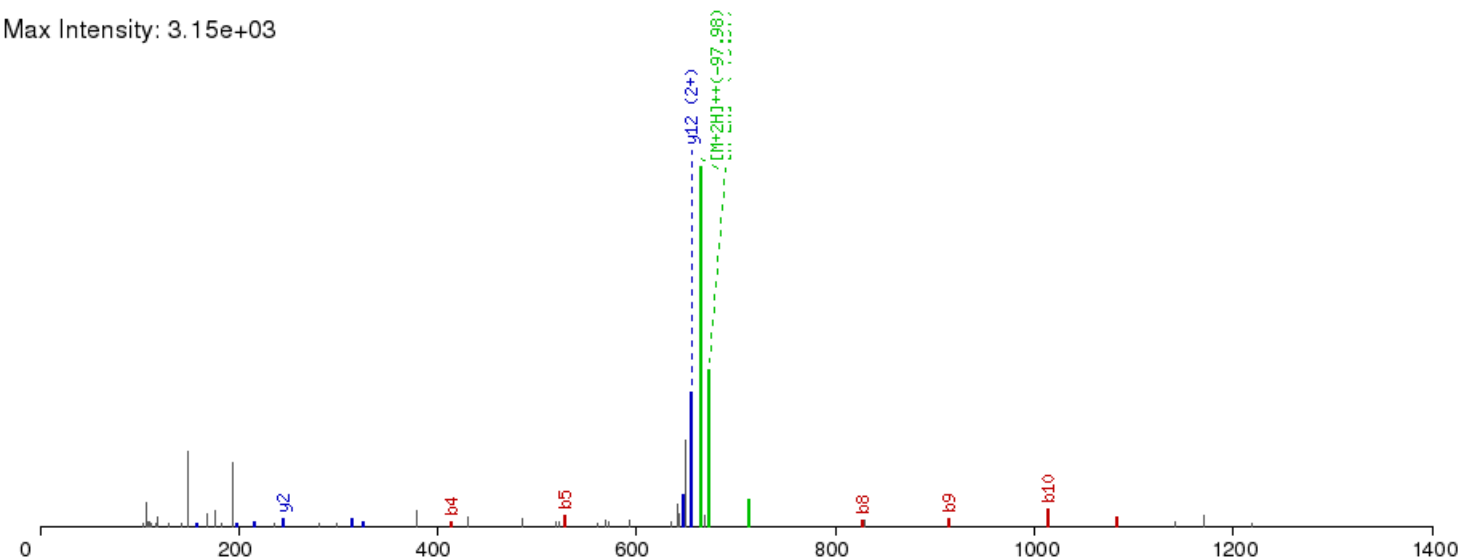
Key: m/z out of range of spectrum matched c-term ion unmatched c-term ion matched n-term ion unmatched n-term ion															
	A	T	S	L	P	S	L	D	T	P	G	E	L	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		145.10													a
b		173.09	260.12	373.21	470.26	637.26	750.34	865.37	966.42	1063.47	1120.49	1249.53	1362.62		b
b-79.97						557.29	670.38	785.40	886.45	983.50	1040.53	1169.57	1282.65		b-79.97
b-97.98						539.28	652.37	767.39	868.44	965.49	1022.52	1151.56	1264.64		b-97.98
y		1465.69	1364.65	1277.61	1164.53	1067.48	900.48	787.39	672.37	571.32	474.27	417.25	288.20	175.12	y
y-79.97		1385.73	1284.68	1197.65	1084.56	987.51									y-79.97
y-97.98		1367.72	1266.67	1179.64	1066.55	969.50									y-97.98
y (2+)		733.35	682.83	639.31	582.77	534.24	450.74	394.20	336.69	286.16	237.64	209.13	144.61	88.06	y (2+)
y-79.97 (2+)		693.37	642.84	599.33	542.79	494.26									y-79.97 (2+)
y-97.98 (2+)		684.36	633.84	590.32	533.78	485.25									y-97.98 (2+)
	A	T	S	L	P	S	L	D	T	P	G	E	L	R	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

DLANLVAESTS(+79.97)PK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 712.836, Calc. m/z: 712.842
Data File: Pepmix5_HCD.RAW.-1, Scans: 704 - 704

Max Intensity: 3.15e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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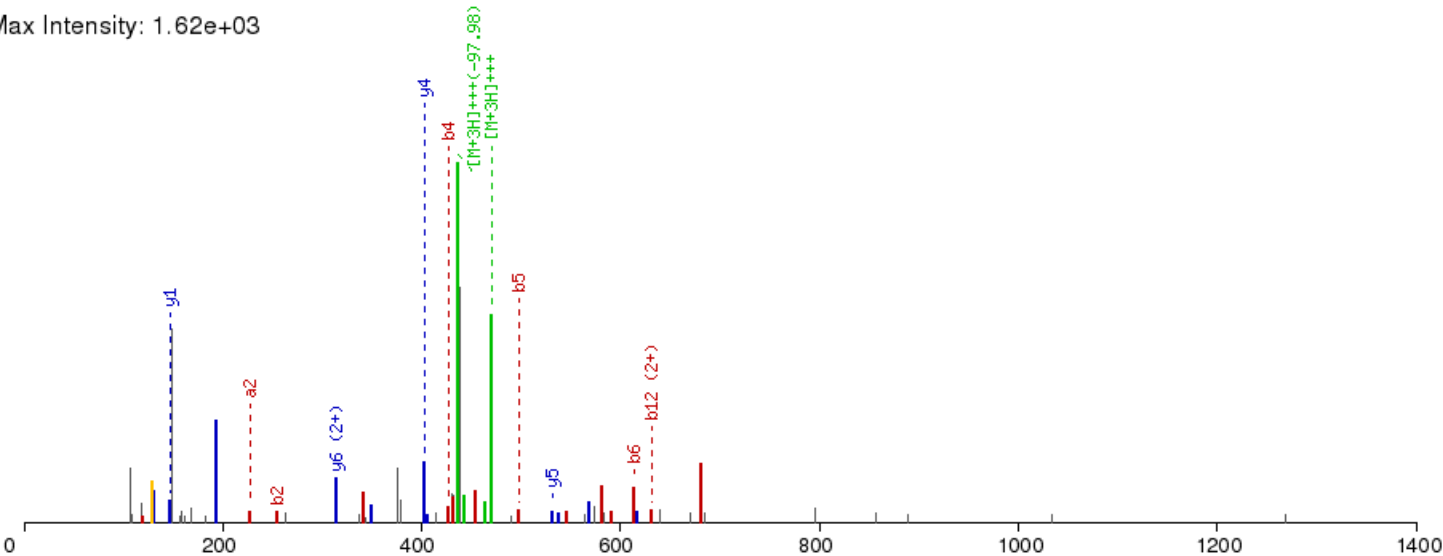
	D	L	A	N	L	V	A	E	S	T	S	P	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	
a		201.12												a
b		229.12	300.16	414.20	527.28	626.35	697.39	826.43	913.46	1014.51	1181.51	1278.56		b
b-79.97											1101.54	1198.60		b-79.97
b-97.98											1083.53	1180.58		b-97.98
y		1309.64	1196.56	1125.52	1011.48	898.39	799.32	728.29	599.24	512.21	411.16	244.17	147.11	y
y-79.97		1229.67	1116.59	1045.55	931.51	818.43	719.36	648.32	519.28	432.25	331.20			y-79.97
y-97.98		1211.66	1098.58	1027.54	913.50	800.41	701.35	630.31	501.27	414.23	313.19			y-97.98
y (2+)		655.32	598.78	563.26	506.24	449.70	400.17	364.65	300.13	256.61	206.09	122.59	74.06	y (2+)
y-79.97 (2+)		615.34	558.80	523.28	466.26	409.72	360.18	324.66	260.14	216.63	166.10			y-79.97 (2+)
y-97.98 (2+)		606.34	549.79	514.27	457.25	400.71	351.18	315.66	251.14	207.62	157.10			y-97.98 (2+)
	D	L	A	N	L	V	A	E	S	T	S	P	K	
	13	12	11	10	9	8	7	6	5	4	3	2	1	

RPATADS(+79.97)PKPSAK

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 469.232, Calc. m/z: 469.234
Data File: Pepmix1_HCD.RAW.-1, Scans: 525 - 525

Max Intensity: 1.62e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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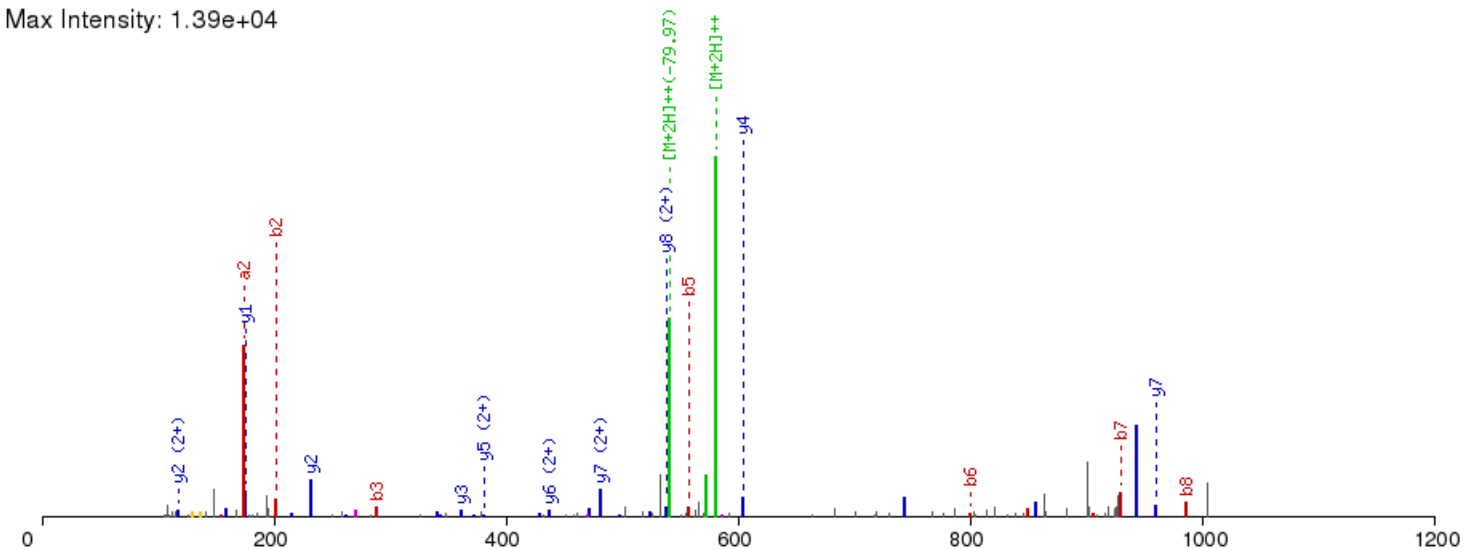
	R	P	A	T	A	D	S	P	K	P	S	A	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	
a		226.17												a
a (2+)		113.59												a (2+)
b		254.16	325.20	426.25	497.28	612.31	779.31	876.36	1004.46	1101.51	1188.54	1259.58		b
b-79.97							699.34	796.39	924.49	1021.54	1108.57	1179.61		b-79.97
b-97.98							681.33	778.38	906.48	1003.53	1090.56	1161.60		b-97.98
b (2+)		127.58	163.10	213.63	249.15	306.66	390.16	438.68	502.73	551.26	594.77	630.29		b (2+)
b-79.97 (2+)							350.17	398.70	462.75	511.27	554.79	590.31		b-79.97 (2+)
b-97.98 (2+)							341.17	389.70	453.74	502.27	545.79	581.30		b-97.98 (2+)
b (3+)									335.49	367.84	396.85	420.53		b (3+)
b-79.97 (3+)									308.83	341.19	370.20	393.88		b-79.97 (3+)
b-97.98 (3+)									302.83	335.18	364.19	387.87		b-97.98 (3+)
y		1249.58	1152.53	1081.49	980.44	909.41	794.38	627.38	530.33	402.23	305.18	218.15	147.11	y
y-79.97		1169.62	1072.56	1001.53	900.48	829.44	714.41							y-79.97
y-97.98		1151.61	1054.55	983.52	882.47	811.43	696.40							y-97.98
y (2+)		625.29	576.77	541.25	490.73	455.21	397.69	314.19	265.67	201.62	153.09	109.58	74.06	y (2+)
y-79.97 (2+)		585.31	536.79	501.27	450.74	415.22	357.71							y-79.97 (2+)
y-97.98 (2+)		576.31	527.78	492.26	441.74	406.22	348.71							y-97.98 (2+)
y (3+)		417.20	384.85	361.17	327.49	303.81	265.47	209.80	177.45					y (3+)
y-79.97 (3+)		390.54	358.19	334.51	300.83	277.15	238.81							y-79.97 (3+)
y-97.98 (3+)		384.54	352.19	328.51	294.83	271.15	232.81							y-97.98 (3+)
	R	P	A	T	A	D	S	P	K	P	S	A	K	
	13	12	11	10	9	8	7	6	5	4	3	2	1	

SISLRY(+79.97)EGR

Identified in MSS769 1 x Phospho (Y)

Charge: 2, Exp. m/z: 580.777, Calc. m/z: 580.777
Data File: Pepmix2_HCD.RAW.-1, Scans: 1133 - 1133

Max Intensity: 1.39e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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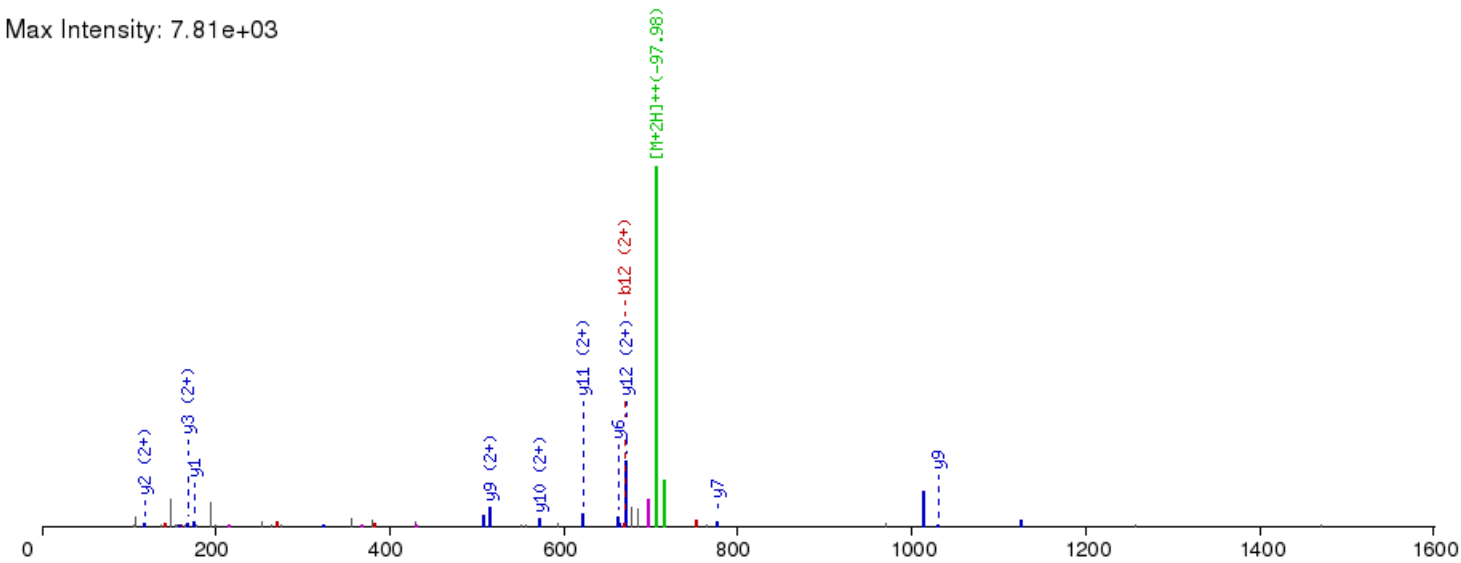
	S	I	S	L	R	Y	E	G	R	
	1	2	3	4	5	6	7	8	9	
a		173.13								a
b		201.12	288.16	401.24	557.34	800.37	929.41	986.43		b
b-79.97						720.40	849.45	906.47		b-79.97
b (2+)					279.17	400.69	465.21	493.72		b (2+)
b-79.97 (2+)						360.71	425.23	453.74		b-79.97 (2+)
y		1073.51	960.43	873.40	760.31	604.21	361.18	232.14	175.12	y
y-79.97		993.55	880.46	793.43	680.35	524.25				y-79.97
y (2+)		537.26	480.72	437.20	380.66	302.61	181.10	116.57	88.06	y (2+)
y-79.97 (2+)		497.28	440.74	397.22	340.68	262.63				y-79.97 (2+)
	S	I	S	L	R	Y	E	G	R	
	9	8	7	6	5	4	3	2	1	

S(+79.97)VTLPRDLQSTGR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 755.376, Calc. m/z: 755.377
Data File: Pepmix4_HCD.RAW.-1, Scans: 1409 - 1409

Max Intensity: 7.81e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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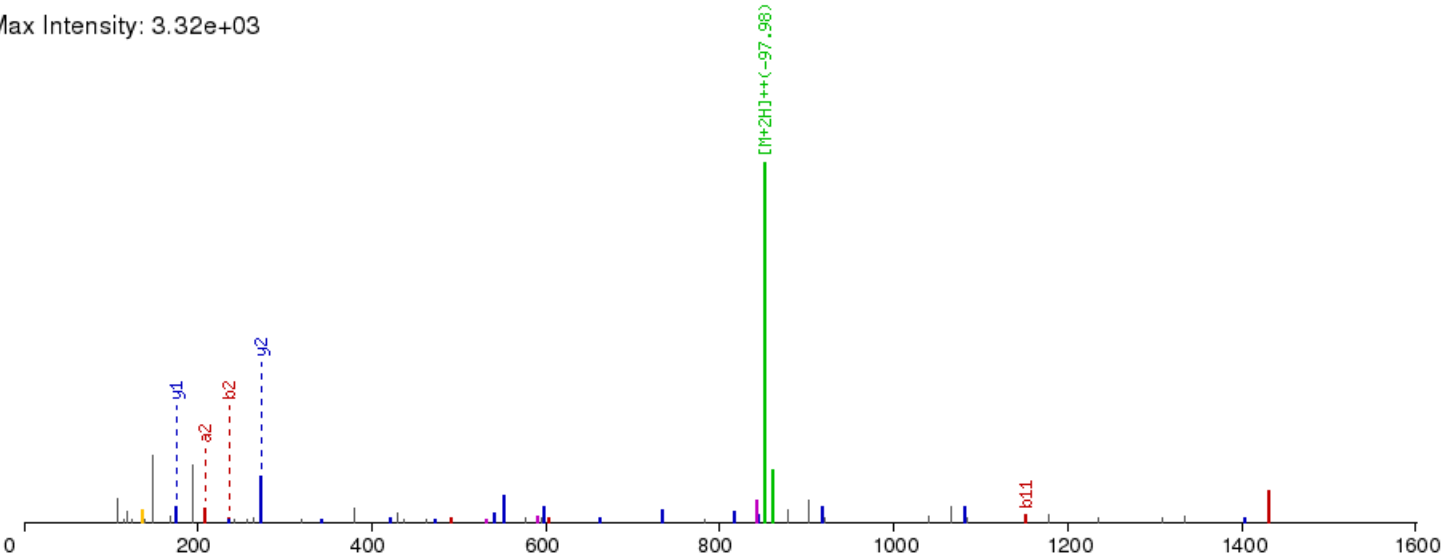
	S	V	T	L	P	R	D	L	Q	S	T	G	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	
a		239.08												a
a-79.97		159.11												a-79.97
a-97.98		141.10												a-97.98
b		267.07	368.12	481.21	578.26	734.36	849.39	962.47	1090.53	1177.56	1278.61	1335.63		b
b-79.97		187.11	288.16	401.24	498.29	654.39	769.42	882.50	1010.56	1097.59	1198.64	1255.66		b-79.97
b-97.98		169.10	270.14	383.23	480.28	636.38	751.41	864.49	992.55	1079.58	1180.63	1237.65		b-97.98
b (2+)						367.68	425.20	481.74	545.77	589.28	639.81	668.32		b (2+)
b-79.97 (2+)						327.70	385.21	441.76	505.79	549.30	599.82	628.34		b-79.97 (2+)
b-97.98 (2+)						318.70	376.21	432.75	496.78	540.30	590.82	619.33		b-97.98 (2+)
y		1342.74	1243.68	1142.63	1029.54	932.49	776.39	661.36	548.28	420.22	333.19	232.14	175.12	y
y (2+)		671.88	622.34	571.82	515.28	466.75	388.70	331.19	274.64	210.61	167.10	116.57	88.06	y (2+)
	S	V	T	L	P	R	D	L	Q	S	T	G	R	
	13	12	11	10	9	8	7	6	5	4	3	2	1	

AYGSELYGPGRPLS(+79.97)PR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 900.430, Calc. m/z: 900.432
Data File: Pepmix3_HCD.RAW.-1, Scans: 1499 - 1499

Max Intensity: 3.32e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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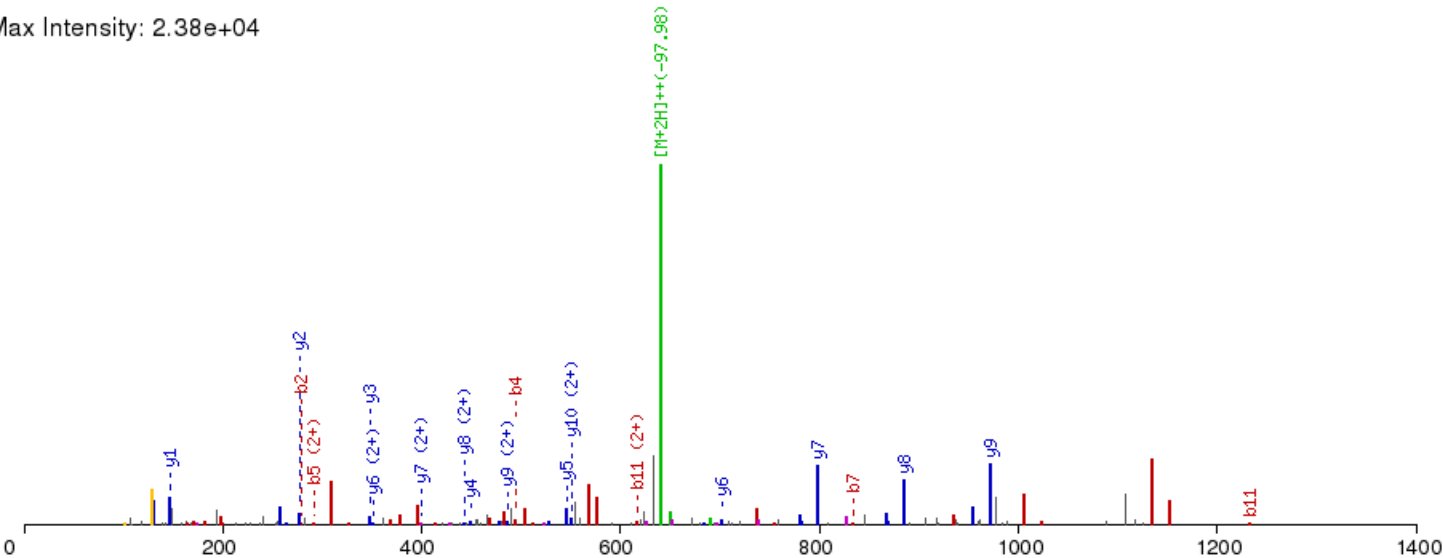
	A	Y	G	S	E	L	Y	G	P	G	R	P	L	S	P	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
a		207.11															a
b		235.11	292.13	379.16	508.20	621.29	784.35	841.37	938.43	995.45	1151.55	1248.60	1361.68	1528.68	1625.74		b
b-79.97														1448.72	1545.77		b-79.97
b-97.98														1430.71	1527.76		b-97.98
b (2+)											576.28	624.80	681.35	764.85	813.37		b (2+)
b-79.97 (2+)														724.86	773.39		b-79.97 (2+)
b-97.98 (2+)														715.86	764.38		b-97.98 (2+)
y		1728.81	1565.75	1508.73	1421.69	1292.65	1179.57	1016.50	959.48	862.43	805.41	649.31	552.25	439.17	272.17	175.12	y
y-79.97		1648.84	1485.78	1428.76	1341.73	1212.68	1099.60	936.54	879.52	782.46	725.44	569.34	472.29	359.20			y-79.97
y-97.98		1630.83	1467.77	1410.75	1323.72	1194.67	1081.59	918.53	861.51	764.45	707.43	551.33	454.28	341.19			y-97.98
y (2+)		864.91	783.38	754.87	711.35	646.83	590.29	508.76	480.24	431.72	403.21	325.16	276.63	220.09	136.59	88.06	y (2+)
y-79.97 (2+)		824.93	743.39	714.88	671.37	606.85	550.30	468.77	440.26	391.74	363.22	285.17	236.65	180.11			y-79.97 (2+)
y-97.98 (2+)		815.92	734.39	705.88	662.36	597.84	541.30	459.77	431.26	382.73	354.22	276.17	227.64	171.10			y-97.98 (2+)
	A	Y	G	S	E	L	Y	G	P	G	R	P	L	S	P	R	
	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

E(+18.01)S(+79.97)KSSPRPTAEK

Identified in MSS769 1 x Glu->pyro-Glu (N-term E) 1 x Phospho (ST)

Charge: 2, Exp. m/z: 689.822, Calc. m/z: 689.822
Data File: Pepmix2_HCD.RAW.-1, Scans: 615 - 615

Max Intensity: 2.38e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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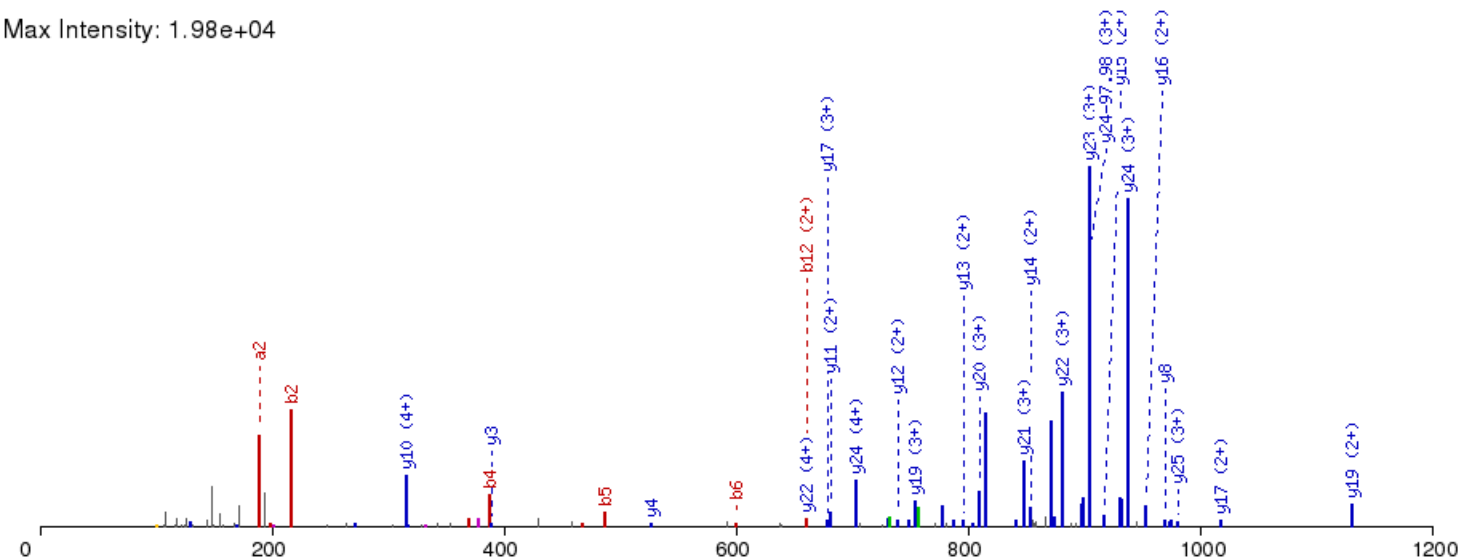
	E	S	K	S	S	P	R	P	T	A	E	K	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		251.04											a
a-79.97		171.08											a-79.97
a-97.98		153.07											a-97.98
b		279.04	407.13	494.16	581.20	678.25	834.35	931.40	1032.45	1103.49	1232.53		b
b-79.97		199.07	327.17	414.20	501.23	598.28	754.38	851.44	952.48	1023.52	1152.56		b-79.97
b-97.98		181.06	309.16	396.19	483.22	580.27	736.37	833.43	934.47	1005.51	1134.55		b-97.98
b (2+)			204.07	247.59	291.10	339.63	417.68	466.21	516.73	552.25	616.77		b (2+)
b-79.97 (2+)			164.09	207.60	251.12	299.65	377.70	426.22	476.75	512.26	576.79		b-79.97 (2+)
b-97.98 (2+)			155.08	198.60	242.11	290.64	368.69	417.22	467.74	503.26	567.78		b-97.98 (2+)
y		1267.60	1100.61	972.51	885.48	798.45	701.39	545.29	448.24	347.19	276.16	147.11	y
y-79.97		1187.64											y-79.97
y-97.98		1169.63											y-97.98
y (2+)		634.31	550.81	486.76	443.24	399.73	351.20	273.15	224.62	174.10	138.58	74.06	y (2+)
y-79.97 (2+)		594.32											y-79.97 (2+)
y-97.98 (2+)		585.32											y-97.98 (2+)
	E	S	K	S	S	P	R	P	T	A	E	K	
	12	11	10	9	8	7	6	5	4	3	2	1	

SEVAVLS(+79.97)PEKAENDDTYKDDVNHNQK

Identified in MSS769 1 x Phospho (ST)

Charge: 4, Exp. m/z: 757.092, Calc. m/z: 757.090
Data File: Pepmix3_HCD.RAW.-1, Scans: 1276 - 1276

Max Intensity: 1.98e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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	S	E	V	A	V	L	S	P	E	K	A	E	N	D	D	T	Y	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
a		189.09																	a
b		217.08	316.15	387.19	486.26	599.34	766.34	863.39	992.43	1120.53	1191.57	1320.61	1434.65	1549.68	1664.71	1765.75	1928.82	2056.91	b
b-79.97							686.37	783.42	912.47	1040.56	1111.60	1240.64	1354.68	1469.71	1584.74	1685.79	1848.85	1976.94	b-79.97
b-97.98							668.36	765.41	894.46	1022.55	1093.59	1222.63	1336.67	1451.70	1566.73	1667.78	1830.84	1958.93	b-97.98
b (2+)										560.77	596.29	660.81	717.83	775.34	832.86	883.38	964.91	1028.96	b (2+)
b-79.97 (2+)										520.78	556.30	620.82	677.85	735.36	792.87	843.40	924.93	988.98	b-79.97 (2+)
b-97.98 (2+)										511.78	547.30	611.82	668.84	726.35	783.87	834.39	915.92	979.97	b-97.98 (2+)
b (3+)																		686.31	b (3+)
b-79.97 (3+)																		659.65	b-79.97 (3+)
b-97.98 (3+)																		653.65	b-97.98 (3+)
b (4+)																			b (4+)
b-79.97 (4+)																			b-79.97 (4+)
b-97.98 (4+)																			b-97.98 (4+)
y		2938.31	2809.27	2710.20	2639.16	2540.09	2427.01	2260.01	2162.96	2033.92	1905.82	1834.78	1705.74	1591.70	1476.67	1361.64	1260.60	1097.53	y
y-79.97		2858.34	2729.30	2630.23	2559.20	2460.13	2347.04												y-79.97
y-97.98		2840.33	2711.29	2612.22	2541.19	2442.12	2329.03												y-97.98
y (2+)		1469.66	1405.14	1355.60	1320.08	1270.55	1214.01	1130.51	1081.98	1017.46	953.41	917.90	853.37	796.35	738.84	681.33	630.80	549.27	y (2+)
y-79.97 (2+)		1429.68	1365.15	1315.62	1280.10	1230.57	1174.03												y-79.97 (2+)
y-97.98 (2+)		1420.67	1356.15	1306.61	1271.10	1221.56	1165.02												y-97.98 (2+)
y (3+)		980.11	937.09	904.07	880.39	847.37	809.67	754.01	721.66	678.64	635.95	612.27	569.25	531.24	492.90	454.55	420.87	366.52	y (3+)
y-79.97 (3+)		953.45	910.44	877.42	853.74	820.71	783.02												y-79.97 (3+)
y-97.98 (3+)		947.45	904.44	871.41	847.73	814.71	777.02												y-97.98 (3+)
y (4+)		735.33	703.07	678.31	660.55	635.78	607.51	565.76	541.50	509.23	477.21	459.45	427.19	398.68	369.92	341.17	315.90	275.14	y (4+)
y-79.97 (4+)		715.34	683.08	658.31	640.55	615.79	587.52												y-79.97 (4+)
y-97.98 (4+)		710.84	678.58	653.81	636.05	611.28	583.01												y-97.98 (4+)
	S	E	V	A	V	L	S	P	E	K	A	E	N	D	D	T	Y	K	
	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	

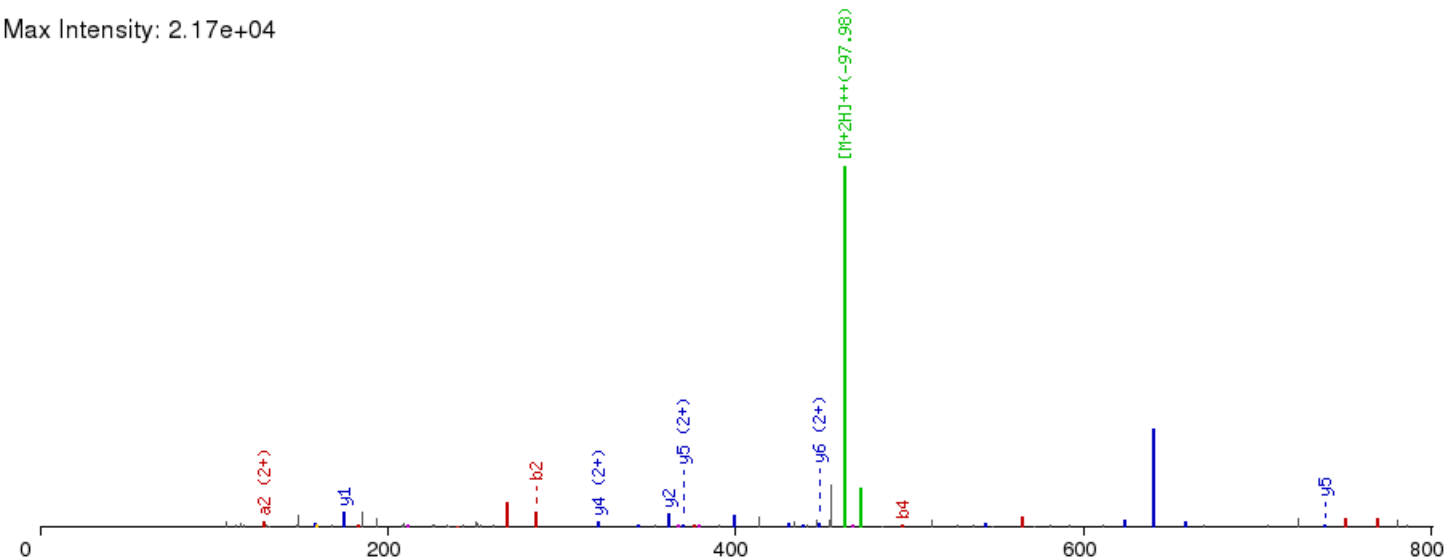
	D	D	V	N	H	N	Q	K	
	19	20	21	22	23	24	25	26	
a									a
b	2171.94	2286.96	2386.03	2500.08	2637.14	2751.18	2879.24		b
b--79.97	2091.97	2207.00	2306.07	2420.11	2557.17	2671.21	2799.27		b--79.97
b--97.98	2073.96	2188.99	2288.06	2402.10	2539.16	2653.20	2781.26		b--97.98
b (2+)	1086.47	1143.99	1193.52	1250.54	1319.07	1376.09	1440.12		b (2+)
b--79.97 (2+)	1046.49	1104.00	1153.54	1210.56	1279.09	1336.11	1400.14		b--79.97 (2+)
b--97.98 (2+)	1037.48	1095.00	1144.53	1201.55	1270.08	1327.10	1391.13		b--97.98 (2+)
b (3+)	724.65	762.99	796.02	834.03	879.72	917.73	960.42		b (3+)
b--79.97 (3+)	698.00	736.34	769.36	807.37	853.06	891.08	933.76		b--79.97 (3+)
b--97.98 (3+)	691.99	730.33	763.36	801.37	847.06	885.07	927.76		b--97.98 (3+)
b (4+)					660.04	688.55	720.56		b (4+)
b--79.97 (4+)					640.05	668.56	700.57		b--79.97 (4+)
b--97.98 (4+)					635.55	664.06	696.07		b--97.98 (4+)
y	969.44	854.41	739.38	640.32	526.27	389.21	275.17	147.11	y
y--79.97									y--79.97
y--97.98									y--97.98
y (2+)	485.22	427.71	370.20	320.66	263.64	195.11	138.09	74.06	y (2+)
y--79.97 (2+)									y--79.97 (2+)
y--97.98 (2+)									y--97.98 (2+)
y (3+)	323.82	285.48	247.13	214.11	176.10				y (3+)
y--79.97 (3+)									y--79.97 (3+)
y--97.98 (3+)									y--97.98 (3+)
y (4+)									y (4+)
y--79.97 (4+)									y--79.97 (4+)
y--97.98 (4+)									y--97.98 (4+)
	D	D	V	N	H	N	Q	K	
	8	7	6	5	4	3	2	1	

KRPLS(+79.97)WR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 511.769, Calc. m/z: 511.772
Data File: Pepmix3_HCD.RAW.-1, Scans: 1133 - 1133

Max Intensity: 2.17e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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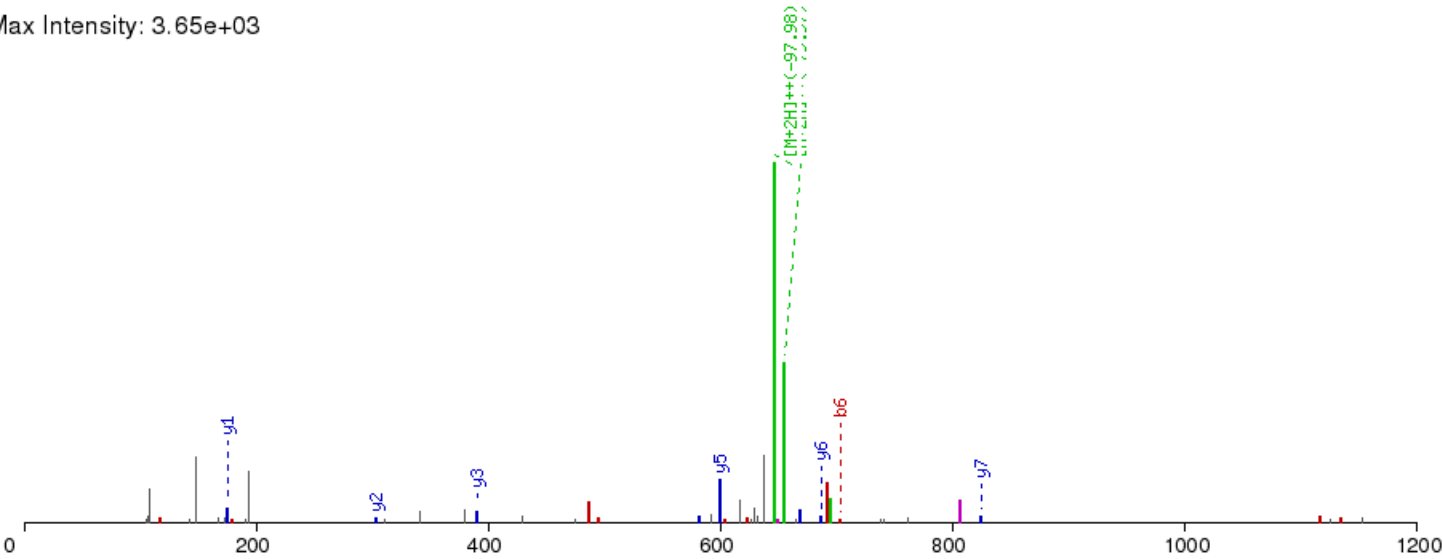
	K	R	P	L	S	W	R	
	1	2	3	4	5	6	7	
a		257.21						a
a (2+)		129.11						a (2+)
b		285.20	382.26	495.34	662.34	848.42		b
b-79.97					582.37	768.45		b-79.97
b-97.98					564.36	750.44		b-97.98
b (2+)		143.11	191.63	248.17	331.67	424.71		b (2+)
b-79.97 (2+)					291.69	384.73		b-79.97 (2+)
b-97.98 (2+)					282.68	375.72		b-97.98 (2+)
y		894.43	738.33	641.28	528.20	361.20	175.12	y
y-79.97		814.47	658.37	561.31	448.23			y-79.97
y-97.98		796.46	640.36	543.30	430.22			y-97.98
y (2+)		447.72	369.67	321.14	264.60	181.10	88.06	y (2+)
y-79.97 (2+)		407.74	329.69	281.16	224.62			y-79.97 (2+)
y-97.98 (2+)		398.73	320.68	272.16	215.61			y-97.98 (2+)
	K	R	P	L	S	W	R	
	7	6	5	4	3	2	1	

S(+79.97)GGQRHSPLSQR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 695.323, Calc. m/z: 695.322
Data File: Pepmix5_HCD.RAW.-1, Scans: 566 - 566

Max Intensity: 3.65e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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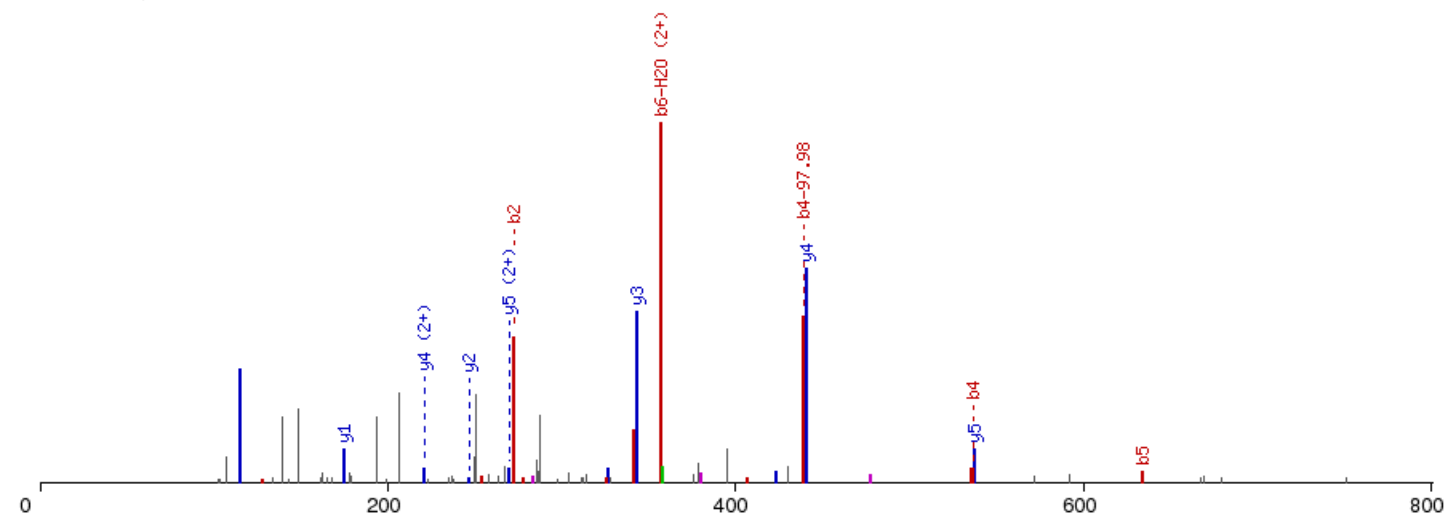
	S	G	G	Q	R	H	S	P	L	S	Q	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		197.03											a
a-79.97		117.07											a-79.97
a-97.98		99.06											a-97.98
b		225.03	282.05	410.11	566.21	703.27	790.30	887.35	1000.44	1087.47	1215.53		b
b-79.97		145.06	202.08	330.14	486.24	623.30	710.33	807.39	920.47	1007.50	1135.56		b-79.97
b-97.98		127.05	184.07	312.13	468.23	605.29	692.32	789.38	902.46	989.49	1117.55		b-97.98
b (2+)					283.61	352.14	395.65	444.18	500.72	544.24	608.27		b (2+)
b-79.97 (2+)					243.62	312.15	355.67	404.20	460.74	504.25	568.28		b-79.97 (2+)
b-97.98 (2+)					234.62	303.15	346.66	395.19	451.73	495.25	559.28		b-97.98 (2+)
y		1222.64	1165.62	1108.60	980.54	824.44	687.38	600.35	503.29	390.21	303.18	175.12	y
y (2+)		611.82	583.31	554.80	490.77	412.72	344.19	300.68	252.15	195.61	152.09	88.06	y (2+)
	S	G	G	Q	R	H	S	P	L	S	Q	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

RDS(+79.97)PPPPAR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 358.170, Calc. m/z: 358.171
Data File: Pepmix2_HCD.RAW.-1, Scans: 590 - 590

Max Intensity: 6.08e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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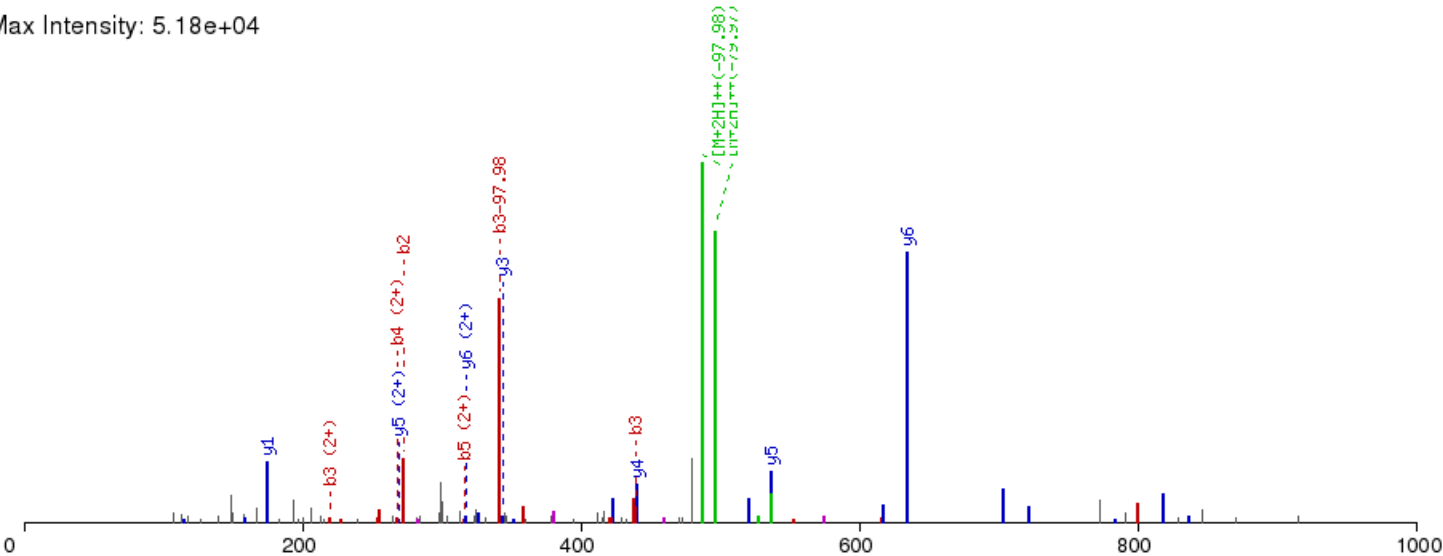
	R	D	S	P	P	P	P	A	R	
	1	2	3	4	5	6	7	8	9	
a		244.14								a
a (2+)		122.57								a (2+)
b		272.14	439.13	536.19	633.24	730.29	827.34	898.38		b
b-79.97			359.17	456.22	553.27	650.33	747.38	818.42		b-79.97
b-97.98			341.16	438.21	535.26	632.32	729.37	800.40		b-97.98
b (2+)		136.57	220.07	268.60	317.12	365.65	414.18	449.69		b (2+)
b-79.97 (2+)			180.09	228.61	277.14	325.67	374.19	409.71		b-79.97 (2+)
b-97.98 (2+)			171.08	219.61	268.13	316.66	365.19	400.71		b-97.98 (2+)
y		916.39	801.37	634.37	537.31	440.26	343.21	246.16	175.12	y
y-79.97		836.43	721.40							y-79.97
y-97.98		818.42	703.39							y-97.98
y (2+)		458.70	401.19	317.69	269.16	220.63	172.11	123.58	88.06	y (2+)
y-79.97 (2+)		418.72	361.20							y-79.97 (2+)
y-97.98 (2+)		409.71	352.20							y-97.98 (2+)
	R	D	S	P	P	P	P	A	R	
	9	8	7	6	5	4	3	2	1	

RDS(+79.97)PPPPAR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 536.750, Calc. m/z: 536.752
Data File: Pepmix2_HCD.RAW.-1, Scans: 581 - 581

Max Intensity: 5.18e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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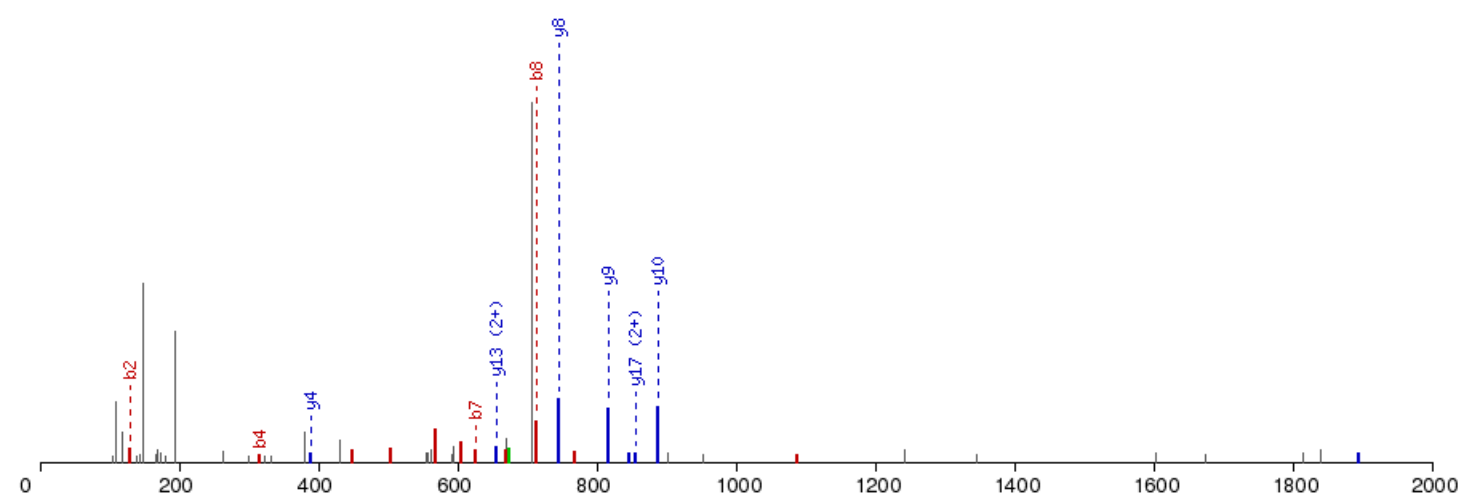
	R	D	S	P	P	P	P	A	R	
	1	2	3	4	5	6	7	8	9	
a		244.14								a
a (2+)		122.57								a (2+)
b		272.14	439.13	536.19	633.24	730.29	827.34	898.38		b
b-79.97			359.17	456.22	553.27	650.33	747.38	818.42		b-79.97
b-97.98			341.16	438.21	535.26	632.32	729.37	800.40		b-97.98
b (2+)		136.57	220.07	268.60	317.12	365.65	414.18	449.69		b (2+)
b-79.97 (2+)			180.09	228.61	277.14	325.67	374.19	409.71		b-79.97 (2+)
b-97.98 (2+)			171.08	219.61	268.13	316.66	365.19	400.71		b-97.98 (2+)
y		916.39	801.37	634.37	537.31	440.26	343.21	246.16	175.12	y
y-79.97		836.43	721.40							y-79.97
y-97.98		818.42	703.39							y-97.98
y (2+)		458.70	401.19	317.69	269.16	220.63	172.11	123.58	88.06	y (2+)
y-79.97 (2+)		418.72	361.20							y-79.97 (2+)
y-97.98 (2+)		409.71	352.20							y-97.98 (2+)
	R	D	S	P	P	P	P	A	R	
	9	8	7	6	5	4	3	2	1	

AGGKPSQSPS(+79.97)QEAAAGEAVLGAK

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 707.340, Calc. m/z: 707.341
Data File: Pepmix5_HCD.RAW.-1, Scans: 1212 - 1212

Max Intensity: 1.49e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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	A	G	G	K	P	S	Q	S	P	S	Q	E	A	A	G	E	A	V	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
a		101.07																	a
b		129.07	186.09	314.18	411.24	498.27	626.33	713.36	810.41	977.41	1105.47	1234.51	1305.55	1376.58	1433.61	1562.65	1633.69	1732.75	b
b-79.97										897.44	1025.50	1154.54	1225.58	1296.62	1353.64	1482.68	1553.72	1652.79	b-79.97
b-97.98										879.43	1007.49	1136.53	1207.57	1278.61	1335.63	1464.67	1535.71	1634.78	b-97.98
b (2+)				157.59	206.12	249.64	313.67	357.18	405.71	489.21	553.24	617.76	653.28	688.80	717.31	781.83	817.35	866.88	b (2+)
b-79.97 (2+)										449.22	513.25	577.78	613.29	648.81	677.32	741.84	777.36	826.90	b-79.97 (2+)
b-97.98 (2+)										440.22	504.25	568.77	604.29	639.81	668.32	732.84	768.36	817.89	b-97.98 (2+)
y		2048.96	1991.94	1934.92	1806.83	1709.77	1622.74	1494.68	1407.65	1310.60	1143.60	1015.54	886.50	815.46	744.43	687.40	558.36	487.32	y
y-79.97		1969.00	1911.98	1854.96	1726.86	1629.81	1542.78	1414.72	1327.69	1230.63									y-79.97
y-97.98		1950.99	1893.97	1836.94	1708.85	1611.80	1524.77	1396.71	1309.67	1212.62									y-97.98
y (2+)		1024.99	996.48	967.96	903.92	855.39	811.87	747.85	704.33	655.80	572.30	508.27	443.75	408.23	372.72	344.21	279.68	244.17	y (2+)
y-79.97 (2+)		985.00	956.49	927.98	863.93	815.41	771.89	707.86	664.35	615.82									y-79.97 (2+)
y-97.98 (2+)		976.00	947.49	918.98	854.93	806.40	762.89	698.86	655.34	606.81									y-97.98 (2+)
y (3+)		683.66	664.65	645.65															y (3+)
y-79.97 (3+)		657.00	638.00	618.99															y-79.97 (3+)
y-97.98 (3+)		651.00	631.99	612.99															y-97.98 (3+)
	A	G	G	K	P	S	Q	S	P	S	Q	E	A	A	G	E	A	V	
	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	

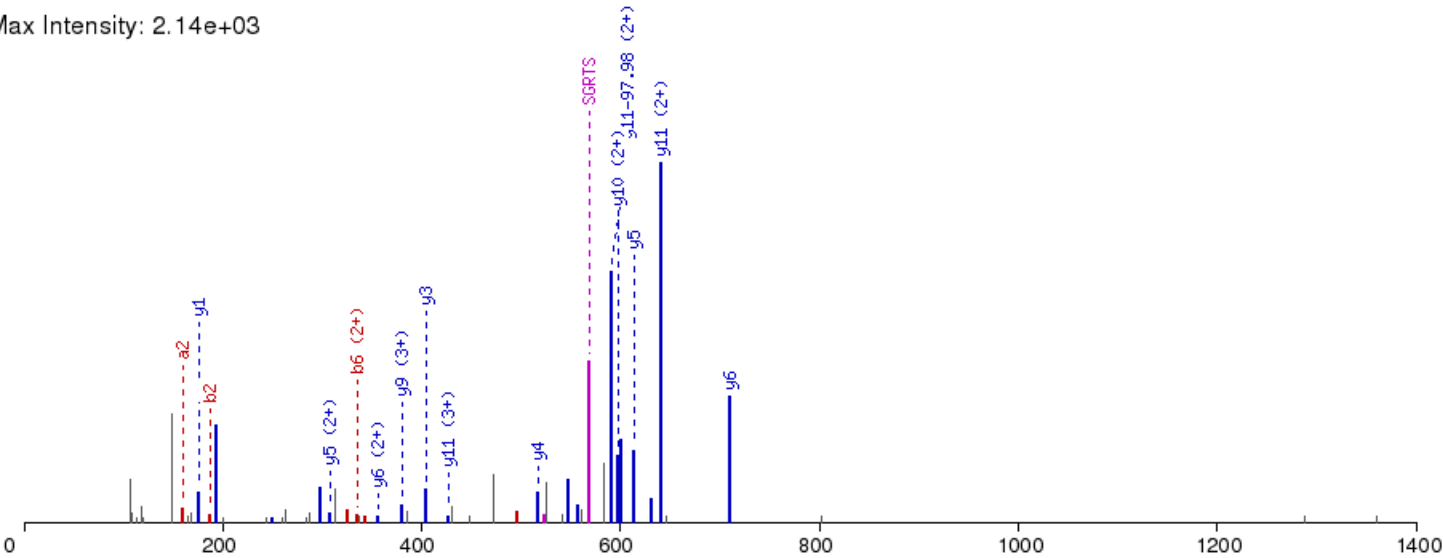
	L	G	A	K	
	19	20	21	22	
a					a
b	1845.84	1902.86	1973.90		b
b-79.97	1765.87	1822.89	1893.93		b-79.97
b-97.98	1747.86	1804.88	1875.92		b-97.98
b (2+)	923.42	951.93	987.45		b (2+)
b-79.97 (2+)	883.44	911.95	947.47		b-79.97 (2+)
b-97.98 (2+)	874.43	902.94	938.46		b-97.98 (2+)
y	388.26	275.17	218.15	147.11	y
y-79.97					y-79.97
y-97.98					y-97.98
y (2+)	194.63	138.09	109.58	74.06	y (2+)
y-79.97 (2+)					y-79.97 (2+)
y-97.98 (2+)					y-97.98 (2+)
y (3+)					y (3+)
y-79.97 (3+)					y-79.97 (3+)
y-97.98 (3+)					y-97.98 (3+)
	L	G	A	K	
	4	3	2	1	

VSGRT(+79.97)SPPLDR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 459.901, Calc. m/z: 459.904
Data File: Pepmix5_HCD.RAW.-1, Scans: 1157 - 1157

Max Intensity: 2.14e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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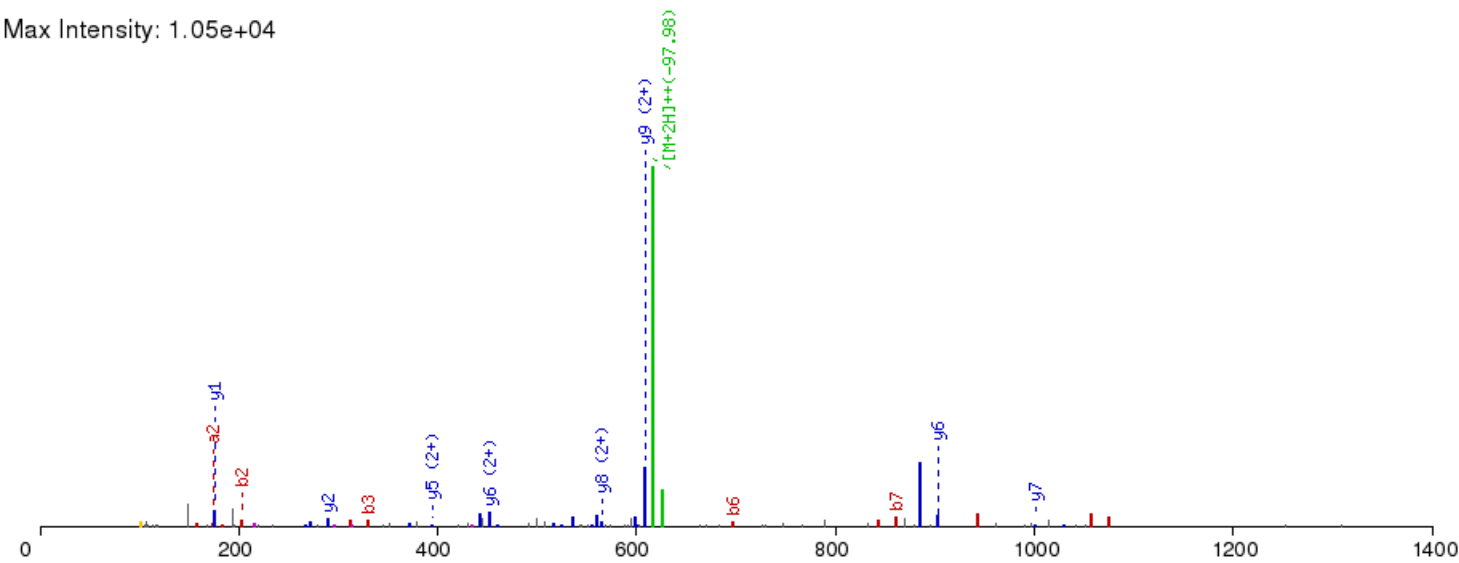
	V	S	G	R	T	S	P	P	L	L	D	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		159.11											a
b		187.11	244.13	400.23	581.24	668.28	765.33	862.38	975.47	1088.55	1203.58		b
b-79.97					501.28	588.31	685.36	782.42	895.50	1008.58	1123.61		b-79.97
b-97.98					483.27	570.30	667.35	764.40	877.49	990.57	1105.60		b-97.98
b (2+)				200.62	291.13	334.64	383.17	431.69	488.24	544.78	602.29		b (2+)
b-79.97 (2+)					251.14	294.66	343.19	391.71	448.25	504.80	562.31		b-79.97 (2+)
b-97.98 (2+)					242.14	285.65	334.18	382.71	439.25	495.79	553.30		b-97.98 (2+)
y		1278.62	1191.59	1134.57	978.47	797.45	710.42	613.37	516.31	403.23	290.15	175.12	y
y-79.97		1198.65	1111.62	1054.60	898.50								y-79.97
y-97.98		1180.64	1093.61	1036.59	880.49								y-97.98
y (2+)		639.81	596.30	567.79	489.74	399.23	355.71	307.19	258.66	202.12	145.58	88.06	y (2+)
y-79.97 (2+)		599.83	556.31	527.80	449.75								y-79.97 (2+)
y-97.98 (2+)		590.83	547.31	518.80	440.75								y-97.98 (2+)
y (3+)		426.88	397.87	378.86									y (3+)
y-79.97 (3+)		400.22	371.21	352.20									y-79.97 (3+)
y-97.98 (3+)		394.22	365.21	346.20									y-97.98 (3+)
	V	S	G	R	T	S	P	P	L	L	D	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

NSQPNRYT(+79.97)NR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 665.289, Calc. m/z: 665.292
Data File: Pepmix2_HCD.RAW.-1, Scans: 571 - 571

Max Intensity: 1.05e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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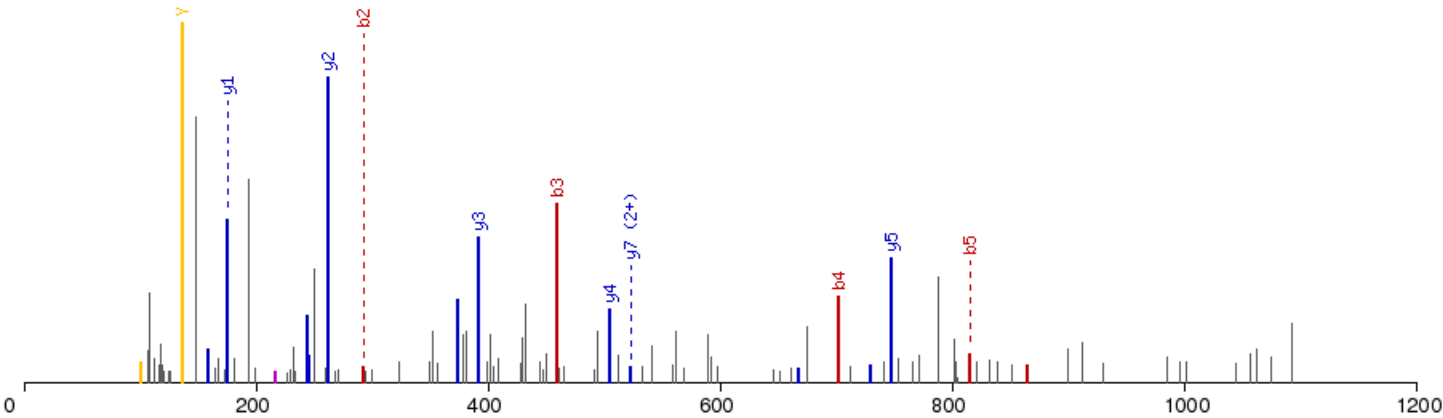
	N	S	Q	P	N	R	Y	T	N	R	
	1	2	3	4	5	6	7	8	9	10	
a		174.09									a
b		202.08	330.14	427.19	541.24	697.34	860.40	1041.41	1155.46		b
b-79.97								961.45	1075.49		b-79.97
b-97.98								943.44	1057.48		b-97.98
b (2+)						349.17	430.70	521.21	578.23		b (2+)
b-79.97 (2+)								481.23	538.25		b-79.97 (2+)
b-97.98 (2+)								472.22	529.24		b-97.98 (2+)
y		1215.53	1128.49	1000.44	903.38	789.34	633.24	470.18	289.16	175.12	y
y-79.97		1135.56	1048.53	920.47	823.42	709.37	553.27	390.21			y-79.97
y-97.98		1117.55	1030.52	902.46	805.41	691.36	535.26	372.20			y-97.98
y (2+)		608.27	564.75	500.72	452.20	395.17	317.12	235.59	145.08	88.06	y (2+)
y-79.97 (2+)		568.28	524.77	460.74	412.21	355.19	277.14	195.61			y-79.97 (2+)
y-97.98 (2+)		559.28	515.76	451.73	403.21	346.19	268.13	186.60			y-97.98 (2+)
	N	S	Q	P	N	R	Y	T	N	R	
	10	9	8	7	6	5	4	3	2	1	

YQS(+79.97)Y(+79.97)IESR

Identified in MSS769 1 x Phospho (Y) 1 x Phospho (ST)

Charge: 2, Exp. m/z: 603.220, Calc. m/z: 603.217
Data File: Pepmix3_HCD.RAW.-1, Scans: 1194 - 1194

Max Intensity: 9.28e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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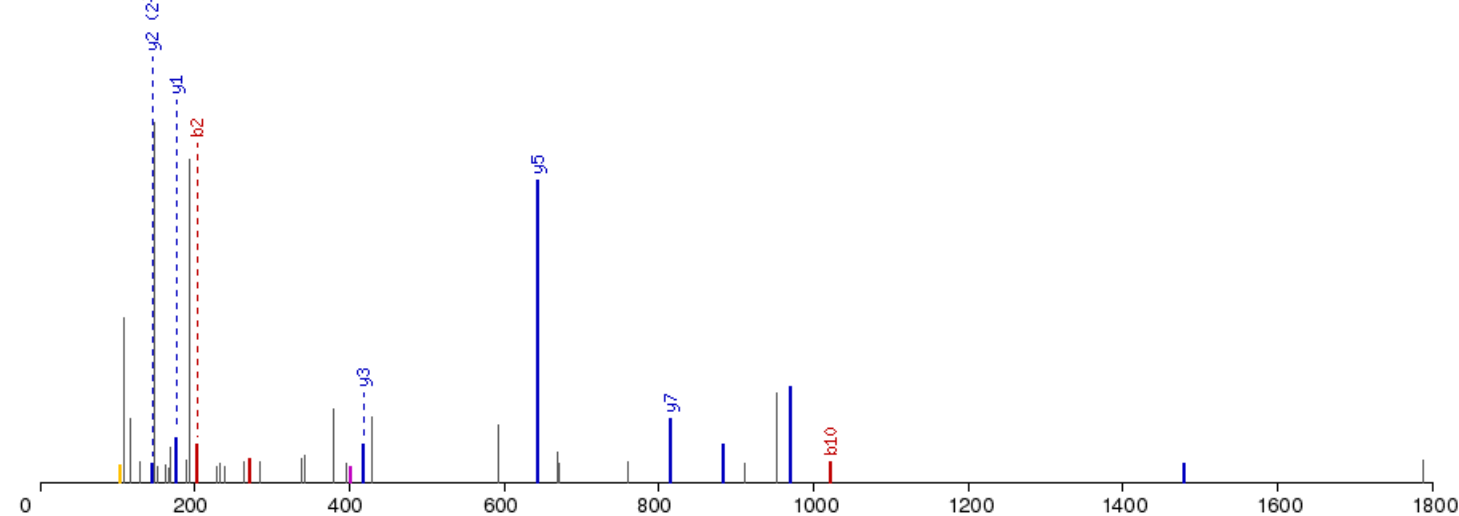
	Y	Q	S	Y	I	E	S	R	
	1	2	3	4	5	6	7	8	
a		264.13							a
b		292.13	459.13	702.16	815.24	944.28	1031.32		b
b-79.97			379.16	622.19	735.27	864.32	951.35		b-79.97
b-97.98			361.15	604.18	717.26	846.31	933.34		b-97.98
y		1042.36	914.31	747.31	504.28	391.19	262.15	175.12	y
y-79.97		962.40	834.34	667.34					y-79.97
y-97.98		944.39	816.33						y-97.98
y (2+)		521.69	457.66	374.16	252.64	196.10	131.58	88.06	y (2+)
y-79.97 (2+)		481.70	417.67	334.17					y-79.97 (2+)
y-97.98 (2+)		472.70	408.67						y-97.98 (2+)
	Y	Q	S	Y	I	E	S	R	
	8	7	6	5	4	3	2	1	

SNSTSSM(+15.99)SS(+79.97)GLPEQDR

Identified in MSS769 1 x Oxidation (M) 1 x Phospho (ST)

Charge: 2, Exp. m/z: 889.850, Calc. m/z: 889.852
Data File: Pepmix3_HCD.RAW.-1, Scans: 894 - 894

Max Intensity: 6.10e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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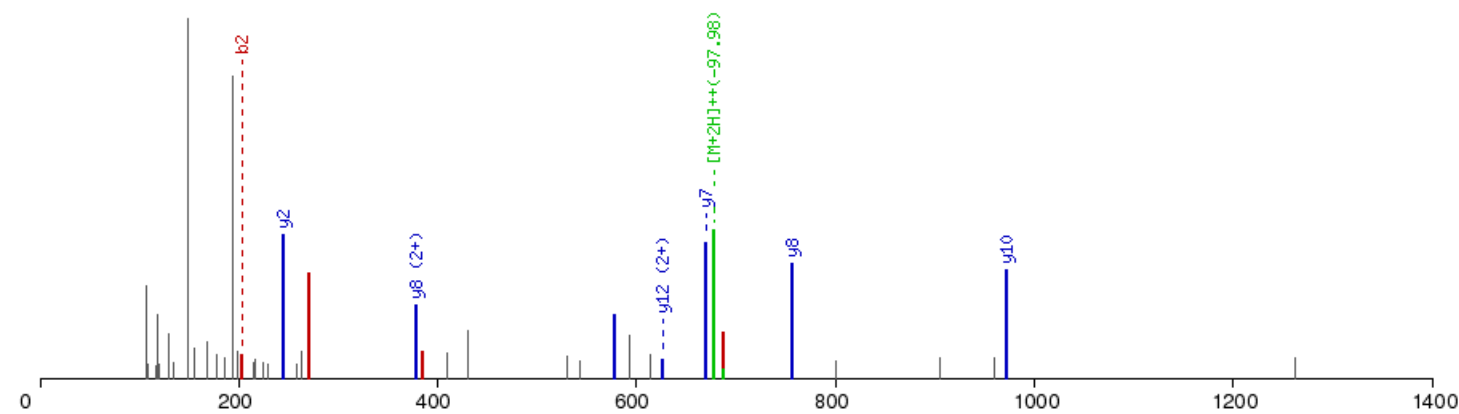
	S	N	S	T	S	S	M	S	S	G	L	P	E	Q	D	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
a		174.09															a
b		202.08	289.11	390.16	477.19	564.23	711.26	798.29	965.29	1022.31	1135.40	1232.45	1361.49	1489.55	1604.58		b
b-15.99							695.27	782.30	949.30	1006.32	1119.40	1216.46	1345.50	1473.56	1588.58		b-15.99
b-64.00							647.26	734.30	901.29	958.31	1071.40	1168.45	1297.49	1425.55	1540.58		b-64.00
b-79.97									885.33	942.35	1055.43	1152.48	1281.53	1409.58	1524.61		b-79.97
b-97.98									867.31	924.34	1037.42	1134.47	1263.52	1391.57	1506.60		b-97.98
y		1691.66	1577.61	1490.58	1389.54	1302.50	1215.47	1068.44	981.40	814.41	757.38	644.30	547.25	418.20	290.15	175.12	y
y-15.99		1675.66	1561.62	1474.59	1373.54	1286.51	1199.48										y-15.99
y-64.00		1627.66	1513.62	1426.58	1325.54	1238.50	1151.47										y-64.00
y-79.97		1611.69	1497.65	1410.62	1309.57	1222.54	1135.50	988.47	901.44								y-79.97
y-97.98		1593.68	1479.64	1392.61	1291.56	1204.53	1117.49	970.46	883.43								y-97.98
y (2+)		846.33	789.31	745.80	695.27	651.76	608.24	534.72	491.21	407.71	379.20	322.65	274.13	209.61	145.58	88.06	y (2+)
y-15.99 (2+)		838.34	781.31	737.80	687.27	643.76	600.24										y-15.99 (2+)
y-64.00 (2+)		814.33	757.31	713.80	663.27	619.76	576.24										y-64.00 (2+)
y-79.97 (2+)		806.35	749.33	705.81	655.29	611.77	568.26	494.74	451.22								y-79.97 (2+)
y-97.98 (2+)		797.34	740.32	696.81	646.28	602.77	559.25	485.73	442.22								y-97.98 (2+)
	S	N	S	T	S	S	M	S	S	G	L	P	E	Q	D	R	
	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

SNS(+79.97)ISKSPGPSSPK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 726.841, Calc. m/z: 726.842
Data File: Pepmix4_HCD.RAW.-1, Scans: 758 - 758

Max Intensity: 6.64e+02



Sequence Ladder Ions

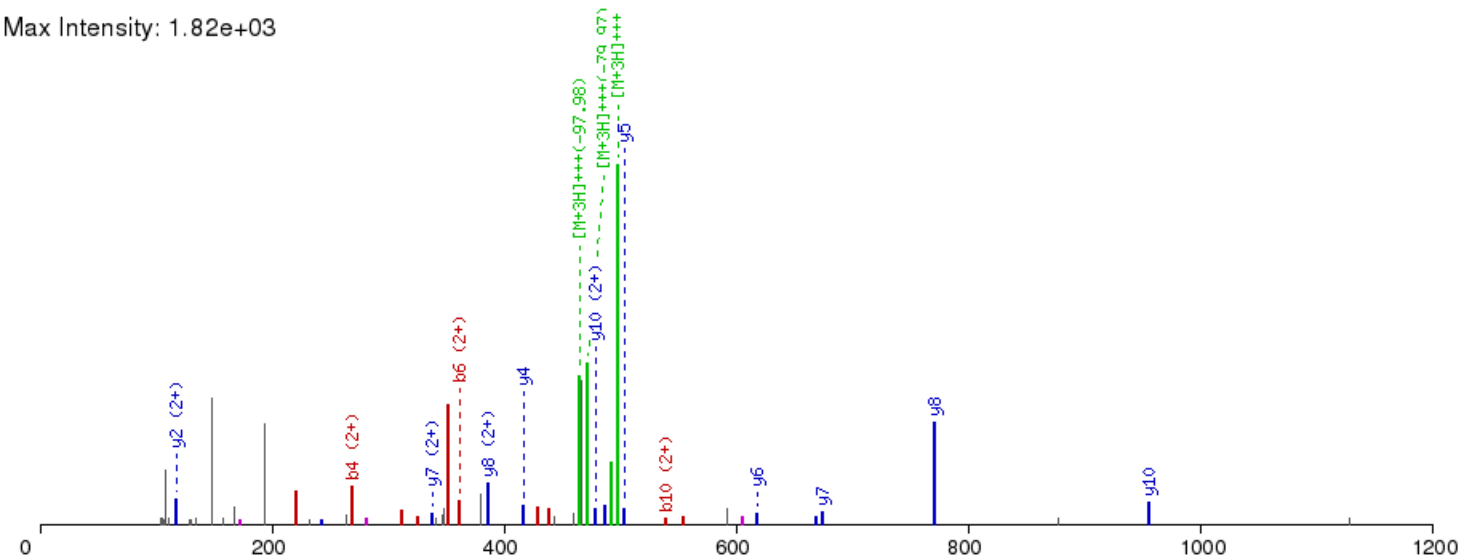
Key:	m/z out of range of spectrum				matched c-term ion				unmatched c-term ion				matched n-term ion				unmatched n-term ion			
	S	N	S	I	S	K	S	P	G	P	S	S	P	K						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
a		174.09																	a	
b		202.08	369.08	482.16	569.20	697.29	784.32	881.38	938.40	1035.45	1122.48	1209.51	1306.57						b	
b-79.97			289.11	402.20	489.23	617.33	704.36	801.41	858.43	955.48	1042.52	1129.55	1226.60						b-79.97	
b-97.98			271.10	384.19	471.22	599.31	686.35	783.40	840.42	937.47	1024.51	1111.54	1208.59						b-97.98	
b (2+)						349.15	392.67	441.19	469.70	518.23	561.74	605.26	653.79						b (2+)	
b-79.97 (2+)						309.17	352.68	401.21	429.72	478.25	521.76	565.28	613.80						b-79.97 (2+)	
b-97.98 (2+)						300.16	343.68	392.20	420.71	469.24	512.76	556.27	604.80						b-97.98 (2+)	
y		1365.64	1251.60	1084.60	971.52	884.48	756.39	669.36	572.30	515.28	418.23	331.20	244.17	147.11					y	
y-79.97		1285.67	1171.63																y-79.97	
y-97.98		1267.66	1153.62																y-97.98	
y (2+)		683.32	626.30	542.80	486.26	442.75	378.70	335.18	286.66	258.14	209.62	166.10	122.59	74.06					y (2+)	
y-79.97 (2+)		643.34	586.32																y-79.97 (2+)	
y-97.98 (2+)		634.34	577.31																y-97.98 (2+)	
	S	N	S	I	S	K	S	P	G	P	S	S	P	K						
	14	13	12	11	10	9	8	7	6	5	4	3	2	1						

GRRS(+79.97)PSPGNPSGR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 497.898, Calc. m/z: 497.901
Data File: Pepmix4_HCD.RAW.-1, Scans: 482 - 482

Max Intensity: 1.82e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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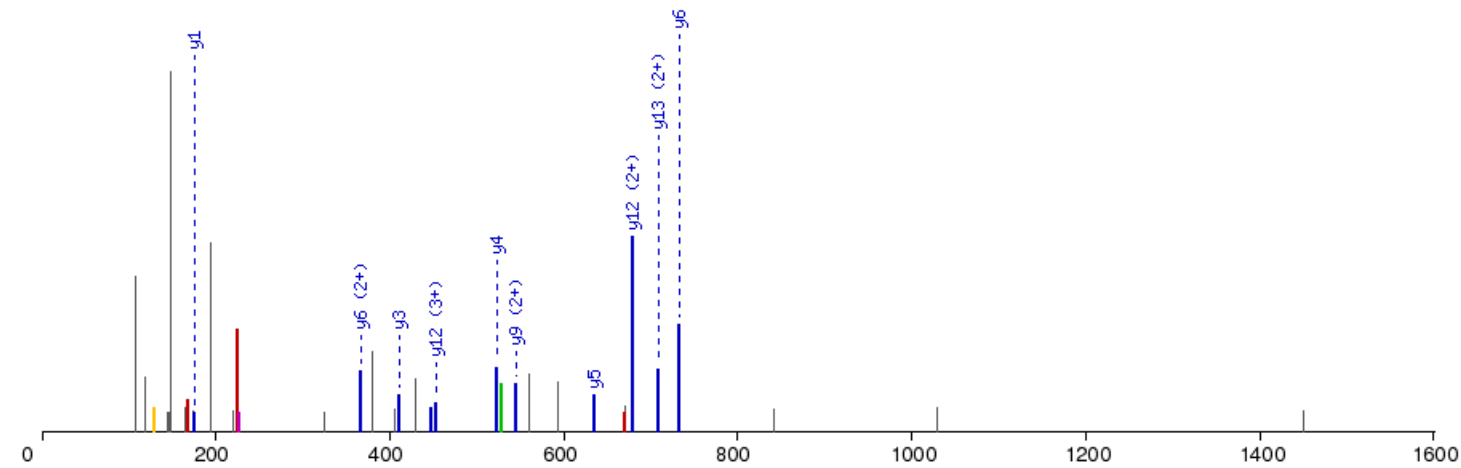
	G	R	R	S	P	S	P	G	N	S	P	S	G	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		186.13													a
a (2+)		93.57													a (2+)
b		214.13	370.23	537.23	634.28	721.31	818.37	875.39	989.43	1076.46	1173.52	1260.55	1317.57		b
b-79.97				457.26	554.32	641.35	738.40	795.42	909.46	996.50	1093.55	1180.58	1237.60		b-79.97
b-97.98				439.25	536.31	623.34	720.39	777.41	891.45	978.49	1075.54	1162.57	1219.59		b-97.98
b (2+)		107.57	185.62	269.12	317.64	361.16	409.69	438.20	495.22	538.74	587.26	630.78	659.29		b (2+)
b-79.97 (2+)				229.14	277.66	321.18	369.70	398.21	455.24	498.75	547.28	590.79	619.31		b-79.97 (2+)
b-97.98 (2+)				220.13	268.66	312.17	360.70	389.21	446.23	489.75	538.27	581.79	610.30		b-97.98 (2+)
b (3+)			124.08	179.75	212.10	241.11	273.46	292.47	330.48	359.49	391.84	420.85	439.86		b (3+)
b-79.97 (3+)				153.09	185.44	214.45	246.81	265.81	303.83	332.84	365.19	394.20	413.21		b-79.97 (3+)
b-97.98 (3+)				147.09	179.44	208.45	240.80	259.81	297.82	326.83	359.18	388.20	407.20		b-97.98 (3+)
y		1434.66	1278.56	1122.46	955.46	858.41	771.37	674.32	617.30	503.26	416.23	319.17	232.14	175.12	y
y-79.97		1354.69	1198.59	1042.49											y-79.97
y-97.98		1336.68	1180.58	1024.48											y-97.98
y (2+)		717.83	639.78	561.73	478.23	429.71	386.19	337.66	309.15	252.13	208.62	160.09	116.57	88.06	y (2+)
y-79.97 (2+)		677.85	599.80	521.75											y-79.97 (2+)
y-97.98 (2+)		668.85	590.79	512.74											y-97.98 (2+)
y (3+)		478.89	426.86												y (3+)
y-79.97 (3+)		452.24	400.20												y-79.97 (3+)
y-97.98 (3+)		446.23	394.20												y-97.98 (3+)
	G	R	R	S	P	S	P	G	N	S	P	S	G	R	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

S(+79.97)PGPSSPKEPLLSR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 560.279, Calc. m/z: 560.277
Data File: Pepmix4_HCD.RAW.-1, Scans: 1626 - 1626

Max Intensity: 5.82e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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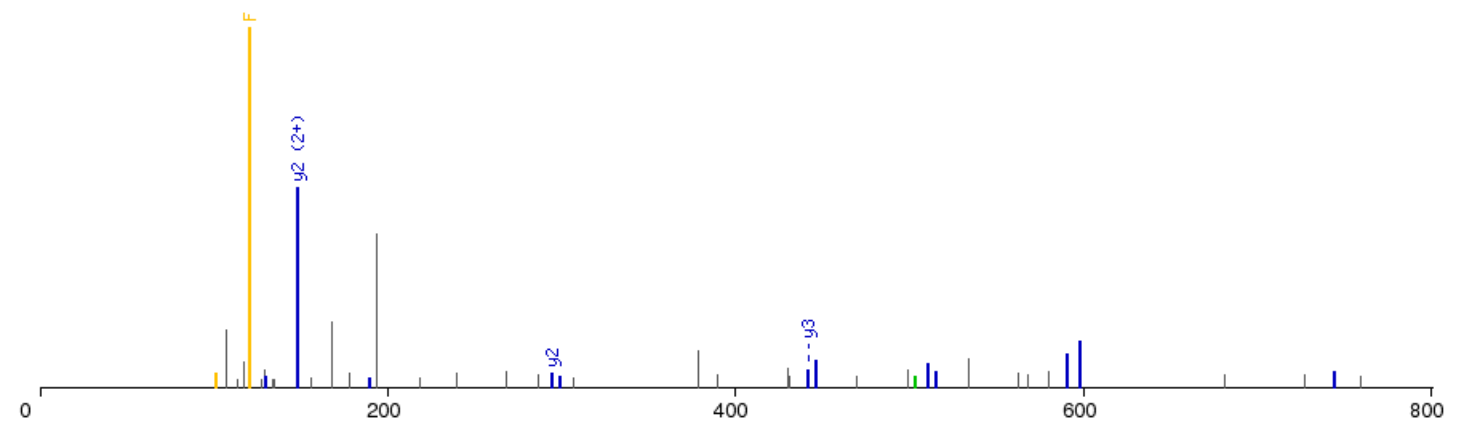
	S	P	G	P	S	S	P	K	E	P	L	L	F	S	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
a		237.06														a
a-79.97		157.10														a-79.97
a-97.98		139.09														a-97.98
b		265.06	322.08	419.13	506.16	593.20	690.25	818.34	947.39	1044.44	1157.52	1270.61	1417.68	1504.71		b
b-79.97		185.09	242.11	339.17	426.20	513.23	610.28	738.38	867.42	964.47	1077.56	1190.64	1337.71	1424.74		b-79.97
b-97.98		167.08	224.10	321.16	408.19	495.22	592.27	720.37	849.41	946.46	1059.55	1172.63	1319.70	1406.73		b-97.98
b (2+)								409.68	474.20	522.72	579.27	635.81	709.34	752.86		b (2+)
b-79.97 (2+)								369.69	434.21	482.74	539.28	595.82	669.36	712.87		b-79.97 (2+)
b-97.98 (2+)								360.69	425.21	473.74	530.28	586.82	660.35	703.87		b-97.98 (2+)
y		1511.82	1414.77	1357.75	1260.69	1173.66	1086.63	989.58	861.48	732.44	635.39	522.30	409.22	262.15	175.12	y
y (2+)		756.41	707.89	679.38	630.85	587.33	543.82	495.29	431.25	366.72	318.20	261.66	205.11	131.58	88.06	y (2+)
y (3+)		504.61	472.26	453.25	420.90	391.89	362.88	330.53								y (3+)
	S	P	G	P	S	S	P	K	E	P	L	L	F	S	R	
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

GGFFSS(+79.97)FM(+15.99)K

Identified in MSS769 1 x Oxidation (M) 1 x Phospho (ST)

Charge: 2, Exp. m/z: 552.217, Calc. m/z: 552.222
Data File: Pepmix1_HCD.RAW.-1, Scans: 1904 - 1904

Max Intensity: 1.20e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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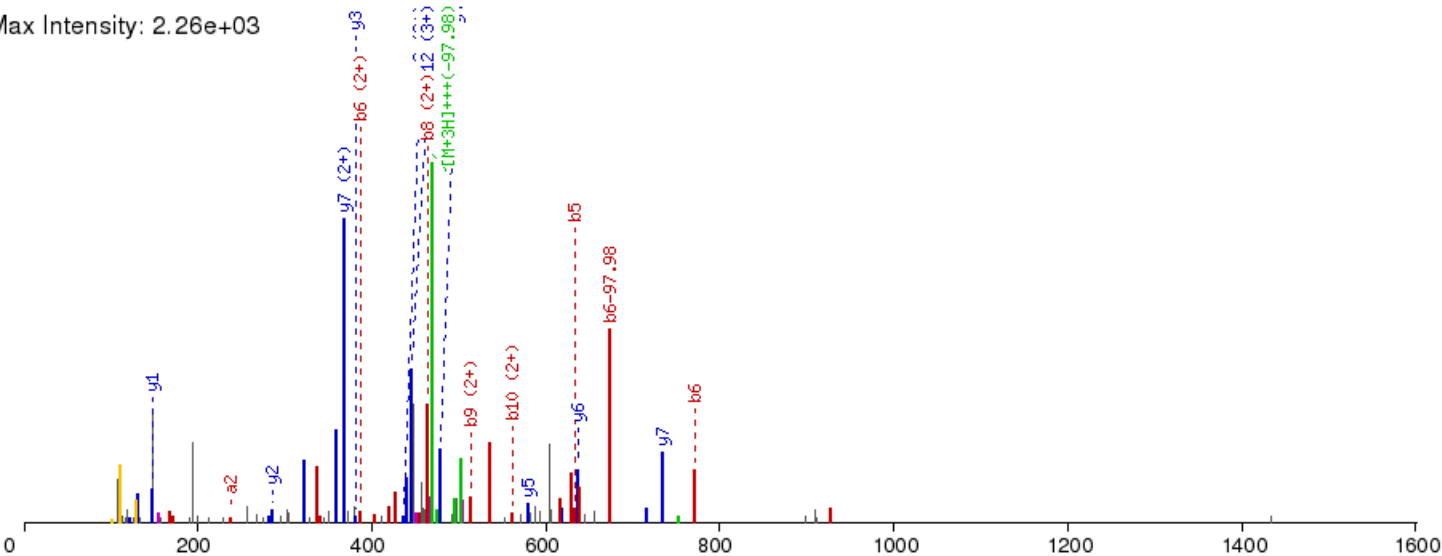
	G	G	F	F	S	S	F	M	K	
	1	2	3	4	5	6	7	8	9	
a		87.06								a
b		115.05	262.12	409.19	496.22	663.22	810.29	957.32		b
b-15.99								941.33		b-15.99
b-64.00								893.32		b-64.00
b-79.97						583.25	730.32	877.35		b-79.97
b-97.98						565.24	712.31	859.34		b-97.98
y		1046.41	989.38	842.32	695.25	608.21	441.22	294.15	147.11	y
y-15.99		1030.41	973.39	826.32	679.25	592.22	425.22	278.15		y-15.99
y-64.00		982.41	925.39	778.32	631.25	544.22	377.22	230.15		y-64.00
y-79.97		966.44	909.42	762.35	615.28	528.25				y-79.97
y-97.98		948.43	891.41	744.34	597.27	510.24				y-97.98
y (2+)		523.71	495.20	421.66	348.13	304.61	221.11	147.58	74.06	y (2+)
y-15.99 (2+)		515.71	487.20	413.66	340.13	296.61	213.11	139.58		y-15.99 (2+)
y-64.00 (2+)		491.71	463.20	389.66	316.13	272.61	189.11	115.58		y-64.00 (2+)
y-79.97 (2+)		483.72	455.21	381.68	308.14	264.63				y-79.97 (2+)
y-97.98 (2+)		474.72	446.21	372.67	299.14	255.62				y-97.98 (2+)
	G	G	F	F	S	S	F	M	K	
	9	8	7	6	5	4	3	2	1	

S(+79.97)PRPDHPGTPPHK

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 501.568, Calc. m/z: 501.567
Data File: Pepmix4_HCD.RAW.-1, Scans: 553 - 553

Max Intensity: 2.26e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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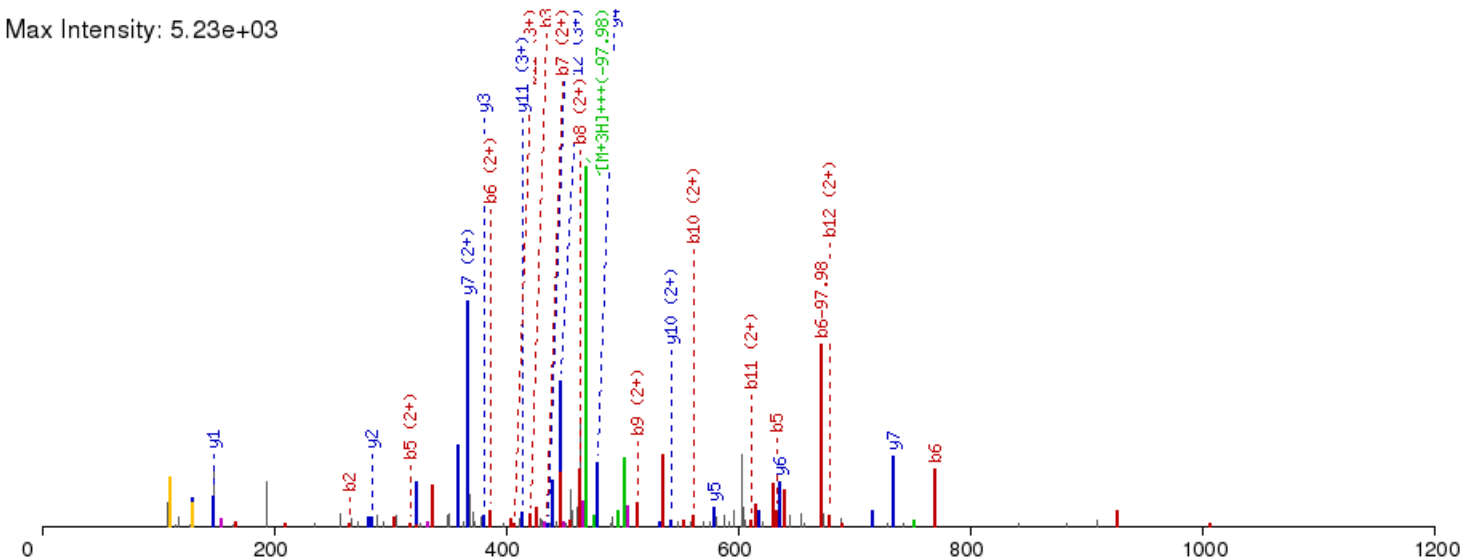
	S	P	R	P	D	H	P	G	T	P	P	H	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	
a		237.06												a
a-79.97		157.10												a-79.97
a-97.98		139.09												a-97.98
b		265.06	421.16	518.21	633.24	770.30	867.35	924.37	1025.42	1122.47	1219.53	1356.58		b
b-79.97		185.09	341.19	438.25	553.27	690.33	787.38	844.41	945.45	1042.51	1139.56	1276.62		b-79.97
b-97.98		167.08	323.18	420.24	535.26	672.32	769.37	826.40	927.44	1024.50	1121.55	1258.61		b-97.98
b (2+)			211.08	259.61	317.12	385.65	434.18	462.69	513.21	561.74	610.27	678.80		b (2+)
b-79.97 (2+)			171.10	219.63	277.14	345.67	394.20	422.71	473.23	521.76	570.28	638.81		b-79.97 (2+)
b-97.98 (2+)			162.09	210.62	268.13	336.66	385.19	413.70	464.23	512.75	561.28	629.81		b-97.98 (2+)
b (3+)						257.44	289.79	308.80	342.48	374.83	407.18	452.87		b (3+)
b-79.97 (3+)						230.78	263.13	282.14	315.82	348.17	380.52	426.21		b-79.97 (3+)
b-97.98 (3+)						224.78	257.13	276.14	309.82	342.17	374.52	420.21		b-97.98 (3+)
y		1335.69	1238.64	1082.54	985.49	870.46	733.40	636.35	579.32	478.28	381.22	284.17	147.11	y
y (2+)		668.35	619.82	541.77	493.25	435.73	367.20	318.68	290.17	239.64	191.12	142.59	74.06	y (2+)
y (3+)		445.90	413.55	361.52	329.17	290.82	245.14	212.79	193.78	160.10	127.75	95.40		y (3+)
	S	P	R	P	D	H	P	G	T	P	P	H	K	
	13	12	11	10	9	8	7	6	5	4	3	2	1	

S(+79.97)PRPDHPGTPPHK

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 501.568, Calc. m/z: 501.571
Data File: Pepmix4_HCD.RAW.-1, Scans: 558 - 558

Max Intensity: 5.23e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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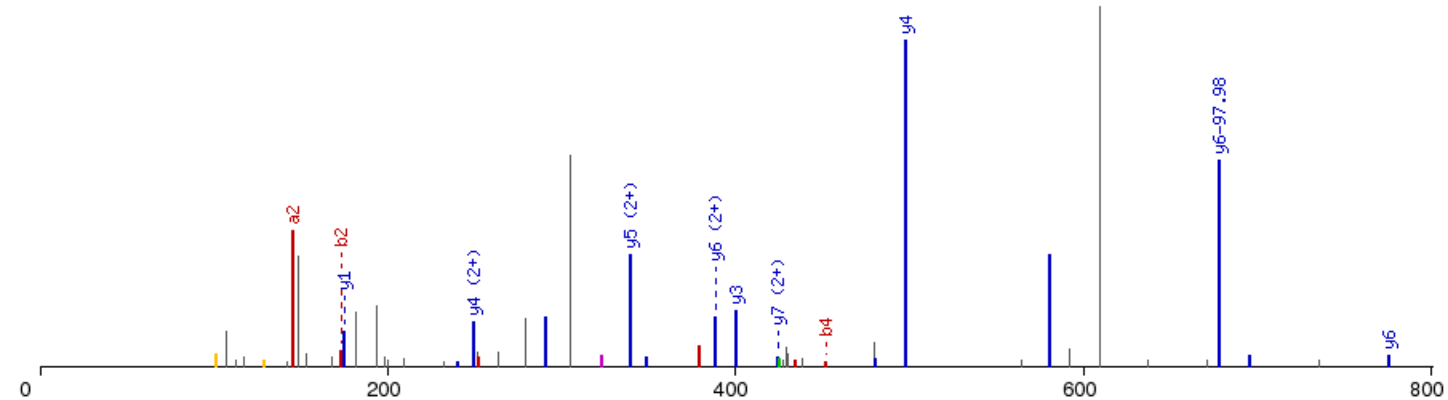
	S	P	R	P	D	H	P	G	T	P	P	H	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	
a		237.06												a
a-79.97		157.10												a-79.97
a-97.98		139.09												a-97.98
b		265.06	421.16	518.21	633.24	770.30	867.35	924.37	1025.42	1122.47	1219.53	1356.58		b
b-79.97		185.09	341.19	438.25	553.27	690.33	787.38	844.41	945.45	1042.51	1139.56	1276.62		b-79.97
b-97.98		167.08	323.18	420.24	535.26	672.32	769.37	826.40	927.44	1024.50	1121.55	1258.61		b-97.98
b (2+)			211.08	259.61	317.12	385.65	434.18	462.69	513.21	561.74	610.27	678.80		b (2+)
b-79.97 (2+)			171.10	219.63	277.14	345.67	394.20	422.71	473.23	521.76	570.28	638.81		b-79.97 (2+)
b-97.98 (2+)			162.09	210.62	268.13	336.66	385.19	413.70	464.23	512.75	561.28	629.81		b-97.98 (2+)
b (3+)						257.44	289.79	308.80	342.48	374.83	407.18	452.87		b (3+)
b-79.97 (3+)						230.78	263.13	282.14	315.82	348.17	380.52	426.21		b-79.97 (3+)
b-97.98 (3+)						224.78	257.13	276.14	309.82	342.17	374.52	420.21		b-97.98 (3+)
y		1335.69	1238.64	1082.54	985.49	870.46	733.40	636.35	579.32	478.28	381.22	284.17	147.11	y
y (2+)		668.35	619.82	541.77	493.25	435.73	367.20	318.68	290.17	239.64	191.12	142.59	74.06	y (2+)
y (3+)		445.90	413.55	361.52	329.17	290.82	245.14	212.79	193.78	160.10	127.75	95.40		y (3+)
	S	P	R	P	D	H	P	G	T	P	P	H	K	
	13	12	11	10	9	8	7	6	5	4	3	2	1	

TAPT(+79.97)PPKR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 474.239, Calc. m/z: 474.243
Data File: Pepmix3_HCD.RAW.-1, Scans: 683 - 683

Max Intensity: 2.13e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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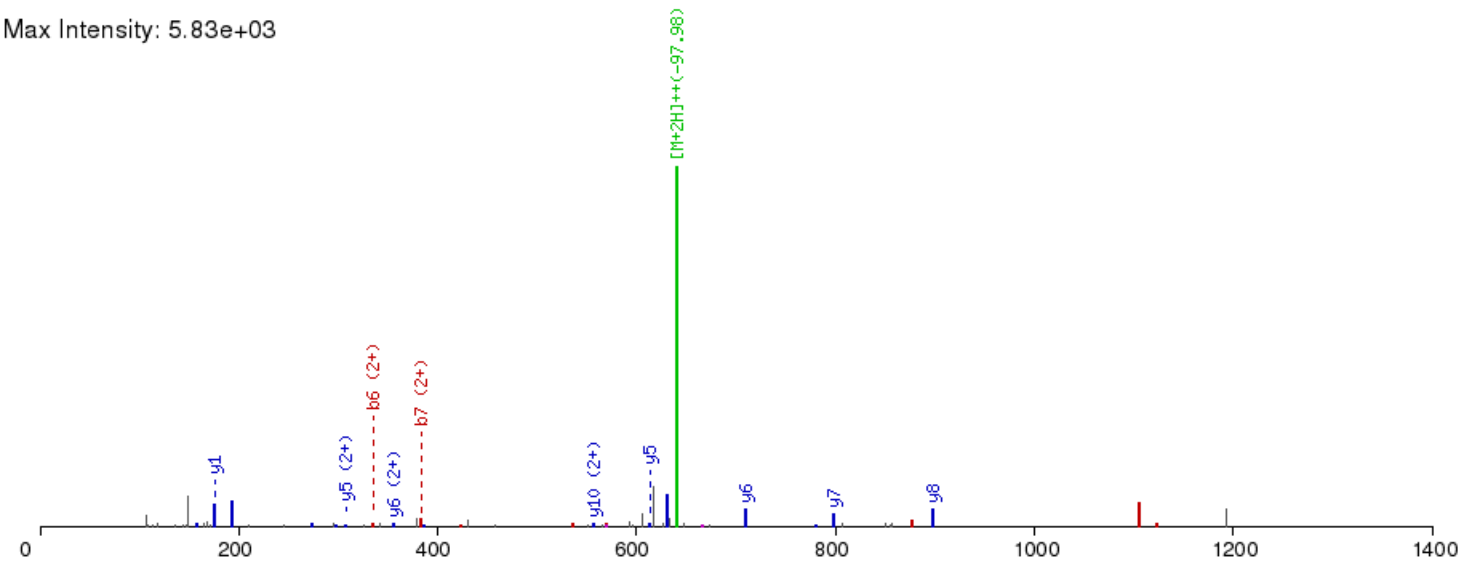
	T	A	P	T	P	P	K	R	
	1	2	3	4	5	6	7	8	
a		145.10							a
b		173.09	270.14	451.16	548.21	645.26	773.36		b
b-79.97				371.19	468.25	565.30	693.39		b-79.97
b-97.98				353.18	450.23	547.29	675.38		b-97.98
b (2+)							387.18		b (2+)
b-79.97 (2+)							347.20		b-79.97 (2+)
b-97.98 (2+)							338.19		b-97.98 (2+)
y		846.42	775.39	678.33	497.32	400.27	303.21	175.12	y
y-79.97		766.46	695.42	598.37					y-79.97
y-97.98		748.45	677.41	580.36					y-97.98
y (2+)		423.72	388.20	339.67	249.16	200.64	152.11	88.06	y (2+)
y-79.97 (2+)		383.73	348.21	299.69					y-79.97 (2+)
y-97.98 (2+)		374.73	339.21	290.68					y-97.98 (2+)
	T	A	P	T	P	P	K	R	
	8	7	6	5	4	3	2	1	

VS(+79.97)GRTSPPLDR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 689.349, Calc. m/z: 689.352
Data File: Pepmix4_HCD.RAW.-1, Scans: 1265 - 1265

Max Intensity: 5.83e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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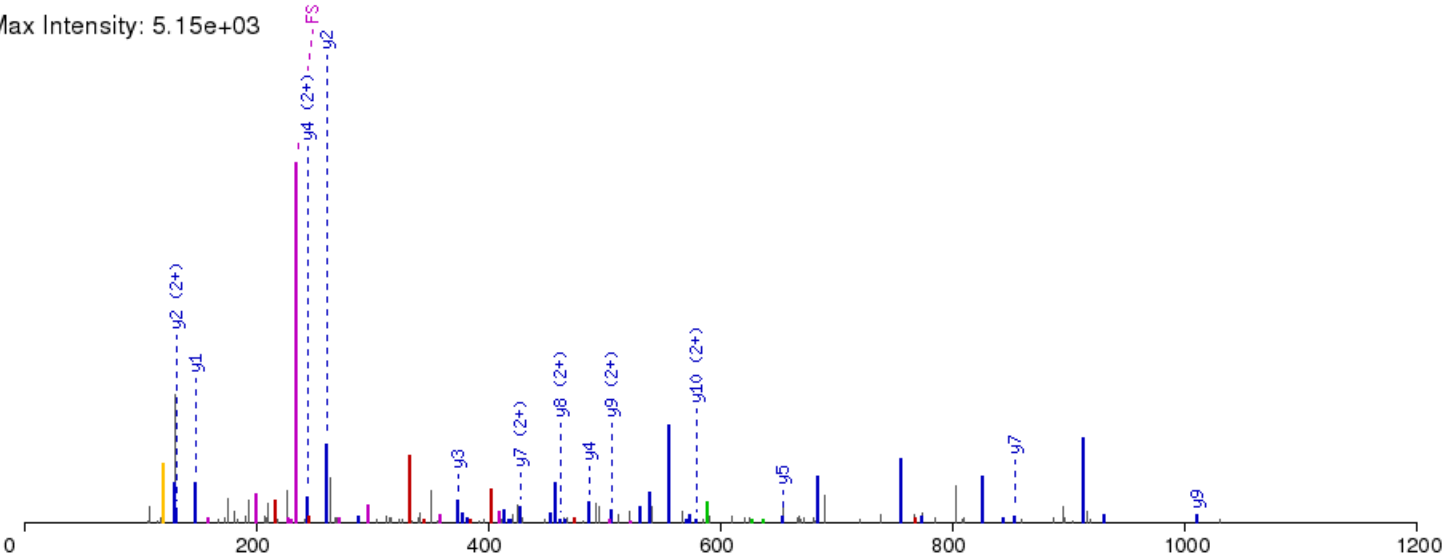
	V	S	G	R	T	S	P	P	L	L	D	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		239.08											a
a-79.97		159.11											a-79.97
a-97.98		141.10											a-97.98
b		267.07	324.10	480.20	581.24	668.28	765.33	862.38	975.47	1088.55	1203.58		b
b-79.97		187.11	244.13	400.23	501.28	588.31	685.36	782.42	895.50	1008.58	1123.61		b-79.97
b-97.98		169.10	226.12	382.22	483.27	570.30	667.35	764.40	877.49	990.57	1105.60		b-97.98
b (2+)				240.60	291.13	334.64	383.17	431.69	488.24	544.78	602.29		b (2+)
b-79.97 (2+)				200.62	251.14	294.66	343.19	391.71	448.25	504.80	562.31		b-79.97 (2+)
b-97.98 (2+)				191.61	242.14	285.65	334.18	382.71	439.25	495.79	553.30		b-97.98 (2+)
y		1278.62	1111.62	1054.60	898.50	797.45	710.42	613.37	516.31	403.23	290.15	175.12	y
y-79.97		1198.65											y-79.97
y-97.98		1180.64											y-97.98
y (2+)		639.81	556.31	527.80	449.75	399.23	355.71	307.19	258.66	202.12	145.58	88.06	y (2+)
y-79.97 (2+)		599.83											y-79.97 (2+)
y-97.98 (2+)		590.83											y-97.98 (2+)
	V	S	G	R	T	S	P	P	L	L	D	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

NFSAAKS(+79.97)LLNK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 637.313, Calc. m/z: 636.827
Data File: Pepmix1_HCD.RAW.-1, Scans: 1617 - 1617

Max Intensity: 5.15e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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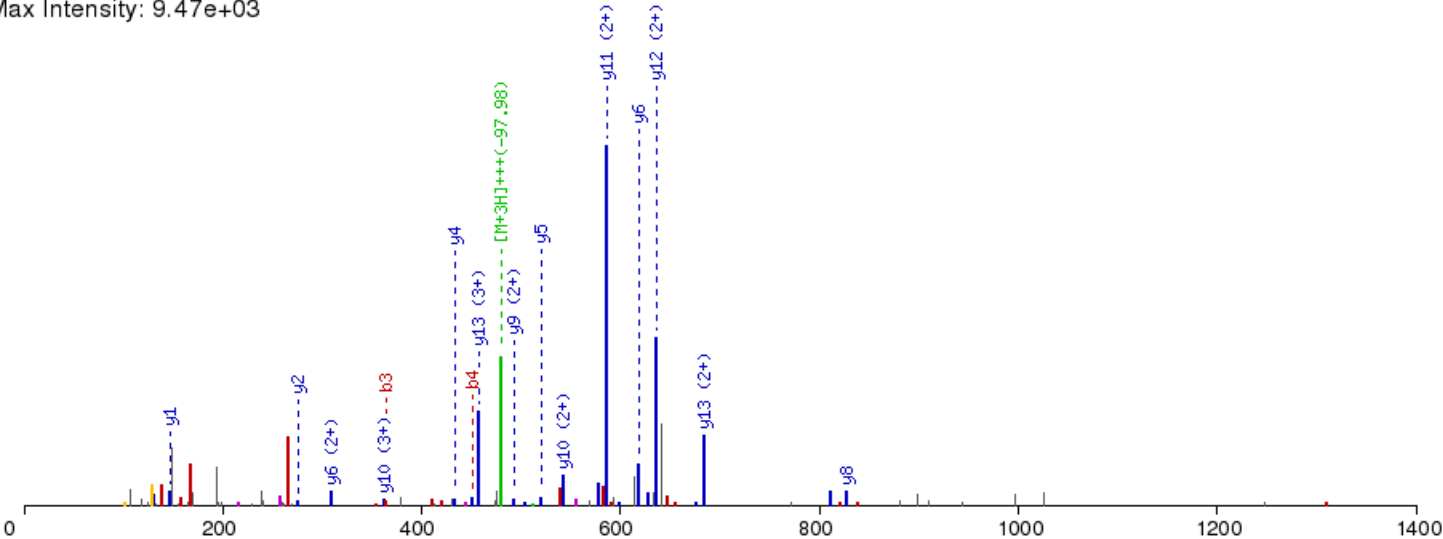
	N	F	S	A	A	K	S	L	L	N	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		234.12										a
b		262.12	349.15	420.19	491.22	619.32	786.32	899.40	1012.49	1126.53		b
b-79.97							706.35	819.44	932.52	1046.56		b-79.97
b-97.98							688.34	801.43	914.51	1028.55		b-97.98
b (2+)						310.16	393.66	450.20	506.75	563.77		b (2+)
b-79.97 (2+)							353.68	410.22	466.76	523.79		b-79.97 (2+)
b-97.98 (2+)							344.67	401.22	457.76	514.78		b-97.98 (2+)
y		1158.59	1011.52	924.49	853.45	782.42	654.32	487.32	374.24	261.16	147.11	y
y-79.97		1078.63	931.56	844.53	773.49	702.45	574.36					y-79.97
y-97.98		1060.61	913.55	826.51	755.48	684.44	556.35					y-97.98
y (2+)		579.80	506.27	462.75	427.23	391.71	327.66	244.17	187.62	131.08	74.06	y (2+)
y-79.97 (2+)		539.82	466.28	422.77	387.25	351.73	287.68					y-79.97 (2+)
y-97.98 (2+)		530.81	457.28	413.76	378.24	342.72	278.68					y-97.98 (2+)
	N	F	S	A	A	K	S	L	L	N	K	
	11	10	9	8	7	6	5	4	3	2	1	

S(+79.97)PVSTRPLPSASQK

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 512.265, Calc. m/z: 512.261
Data File: Pepmix4_HCD.RAW.-1, Scans: 965 - 965

Max Intensity: 9.47e+03



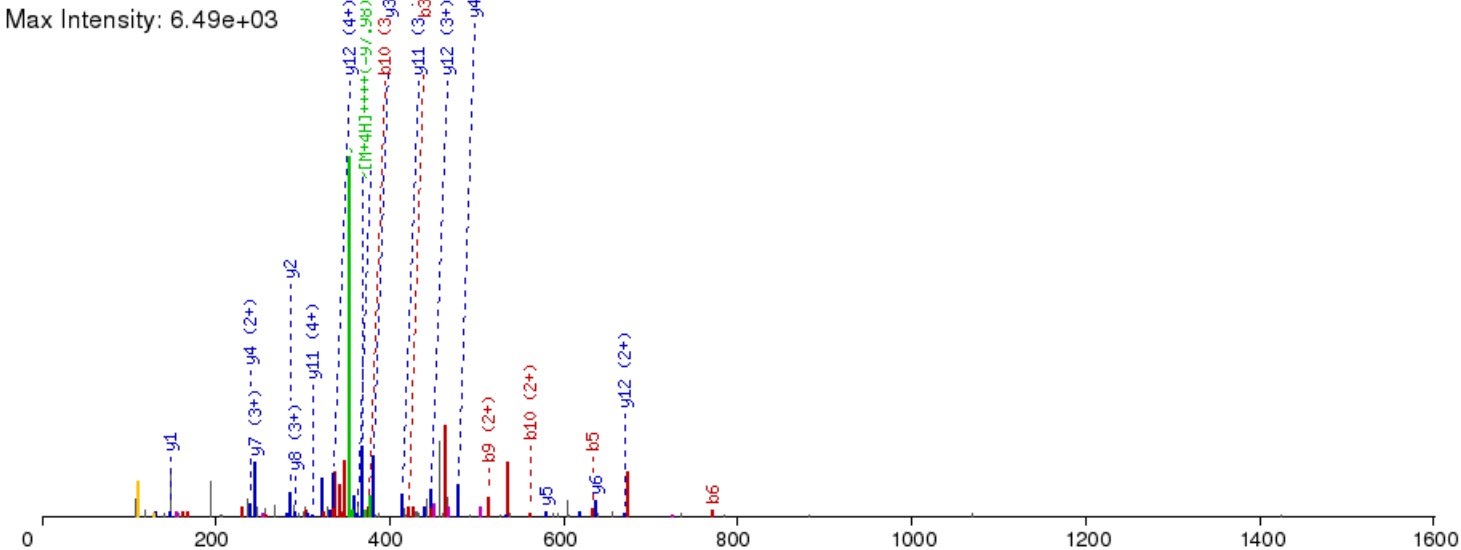
Sequence Ladder Ions

Key:	m/z out of range of spectrum			matched c-term ion			unmatched c-term ion			matched n-term ion			unmatched n-term ion		
	S	P	V	S	T	R	P	L	P	S	A	S	Q	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		237.06													a
a-79.97		157.10													a-79.97
a-97.98		139.09													a-97.98
b		265.06	364.13	451.16	552.21	708.31	805.36	918.44	1015.50	1102.53	1173.57	1260.60	1388.66		b
b-79.97		185.09	284.16	371.19	472.24	628.34	725.39	838.48	935.53	1022.56	1093.60	1180.63	1308.69		b-79.97
b-97.98		167.08	266.15	353.18	454.23	610.33	707.38	820.47	917.52	1004.55	1075.59	1162.62	1290.68		b-97.98
b (2+)						354.66	403.18	459.73	508.25	551.77	587.29	630.80	694.83		b (2+)
b-79.97 (2+)						314.67	363.20	419.74	468.27	511.79	547.30	590.82	654.85		b-79.97 (2+)
b-97.98 (2+)						305.67	354.20	410.74	459.26	502.78	538.30	581.81	645.84		b-97.98 (2+)
y		1367.76	1270.71	1171.64	1084.61	983.56	827.46	730.41	617.33	520.27	433.24	362.20	275.17	147.11	y
y (2+)		684.39	635.86	586.33	542.81	492.29	414.23	365.71	309.17	260.64	217.12	181.61	138.09	74.06	y (2+)
y (3+)		456.59	424.24	391.22	362.21	328.53									y (3+)
	S	P	V	S	T	R	P	L	P	S	A	S	Q	K	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

S(+79.97)PRPDHPGTPPHK

Identified in MSS769 1 x Phospho (ST)

Charge: 4, Exp. m/z: 376.428, Calc. m/z: 376.427
Data File: Pepmix4_HCD.RAW.-1, Scans: 559 - 559



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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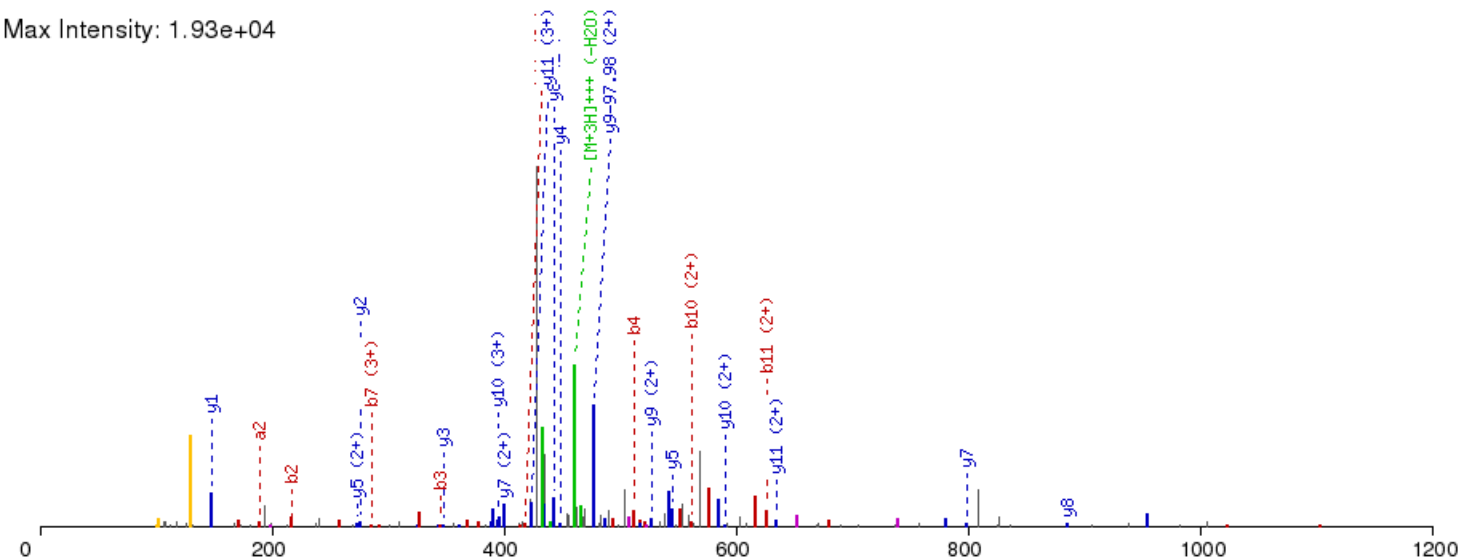
	S	P	R	P	D	H	P	G	T	P	P	H	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	
a		237.06												a
a-79.97		157.10												a-79.97
a-97.98		139.09												a-97.98
b		265.06	421.16	518.21	633.24	770.30	867.35	924.37	1025.42	1122.47	1219.53	1356.58		b
b-79.97		185.09	341.19	438.25	553.27	690.33	787.38	844.41	945.45	1042.51	1139.56	1276.62		b-79.97
b-97.98		167.08	323.18	420.24	535.26	672.32	769.37	826.40	927.44	1024.50	1121.55	1258.61		b-97.98
b (2+)			211.08	259.61	317.12	385.65	434.18	462.69	513.21	561.74	610.27	678.80		b (2+)
b-79.97 (2+)			171.10	219.63	277.14	345.67	394.20	422.71	473.23	521.76	570.28	638.81		b-79.97 (2+)
b-97.98 (2+)			162.09	210.62	268.13	336.66	385.19	413.70	464.23	512.75	561.28	629.81		b-97.98 (2+)
b (3+)						257.44	289.79	308.80	342.48	374.83	407.18	452.87		b (3+)
b-79.97 (3+)						230.78	263.13	282.14	315.82	348.17	380.52	426.21		b-79.97 (3+)
b-97.98 (3+)						224.78	257.13	276.14	309.82	342.17	374.52	420.21		b-97.98 (3+)
b (4+)												339.90		b (4+)
b-79.97 (4+)												319.91		b-79.97 (4+)
b-97.98 (4+)												315.41		b-97.98 (4+)
y		1335.69	1238.64	1082.54	985.49	870.46	733.40	636.35	579.32	478.28	381.22	284.17	147.11	y
y (2+)		668.35	619.82	541.77	493.25	435.73	367.20	318.68	290.17	239.64	191.12	142.59	74.06	y (2+)
y (3+)		445.90	413.55	361.52	329.17	290.82	245.14	212.79	193.78	160.10	127.75	95.40		y (3+)
y (4+)		334.68	310.42	271.39	247.13	218.37								y (4+)
	S	P	R	P	D	H	P	G	T	P	P	H	K	
	13	12	11	10	9	8	7	6	5	4	3	2	1	

ESKS(+79.97)SPRPPTAEK

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 466.220, Calc. m/z: 466.224
Data File: Pepmix3_HCD.RAW.-1, Scans: 491 - 491

Max Intensity: 1.93e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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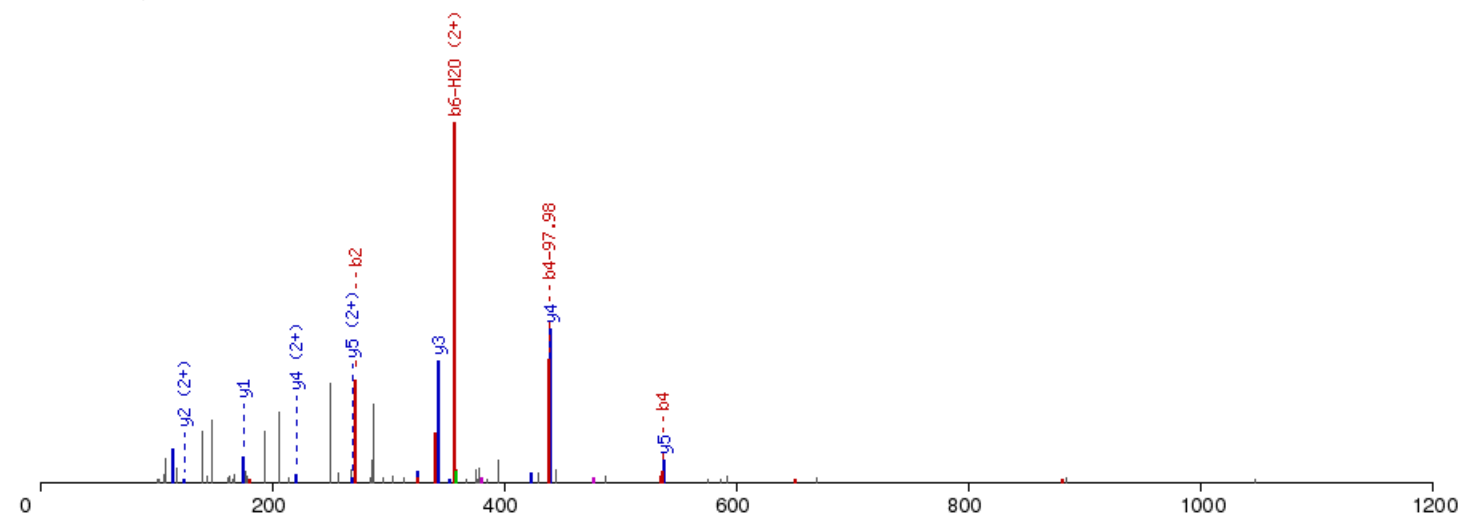
	E	S	K	S	S	P	R	P	T	A	E	K	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		189.09											a
b		217.08	345.18	512.18	599.21	696.26	852.36	949.41	1050.46	1121.50	1250.54		b
b-79.97				432.21	519.24	616.29	772.39	869.45	970.50	1041.53	1170.57		b-79.97
b-97.98				414.20	501.23	598.28	754.38	851.44	952.48	1023.52	1152.56		b-97.98
b (2+)			173.09	256.59	300.11	348.63	426.68	475.21	525.73	561.25	625.77		b (2+)
b-79.97 (2+)				216.61	260.12	308.65	386.70	435.23	485.75	521.27	585.79		b-79.97 (2+)
b-97.98 (2+)				207.60	251.12	299.65	377.70	426.22	476.75	512.26	576.79		b-97.98 (2+)
b (3+)							284.79	317.14	350.83	374.50	417.52		b (3+)
b-79.97 (3+)							258.14	290.49	324.17	347.85	390.86		b-79.97 (3+)
b-97.98 (3+)							252.13	284.48	318.17	341.85	384.86		b-97.98 (3+)
y		1267.60	1180.57	1052.48	885.48	798.45	701.39	545.29	448.24	347.19	276.16	147.11	y
y-79.97		1187.64	1100.61	972.51									y-79.97
y-97.98		1169.63	1082.60	954.50									y-97.98
y (2+)		634.31	590.79	526.74	443.24	399.73	351.20	273.15	224.62	174.10	138.58	74.06	y (2+)
y-79.97 (2+)		594.32	550.81	486.76									y-79.97 (2+)
y-97.98 (2+)		585.32	541.80	477.75									y-97.98 (2+)
y (3+)		423.21	394.20	351.50	295.83	266.82	234.47						y (3+)
y-79.97 (3+)		396.55	367.54	324.84									y-79.97 (3+)
y-97.98 (3+)		390.55	361.54	318.84									y-97.98 (3+)
	E	S	K	S	S	P	R	P	T	A	E	K	
	12	11	10	9	8	7	6	5	4	3	2	1	

RDS(+79.97)PPPPAR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 358.170, Calc. m/z: 358.171
Data File: Pepmix2_HCD.RAW.-1, Scans: 570 - 570

Max Intensity: 5.80e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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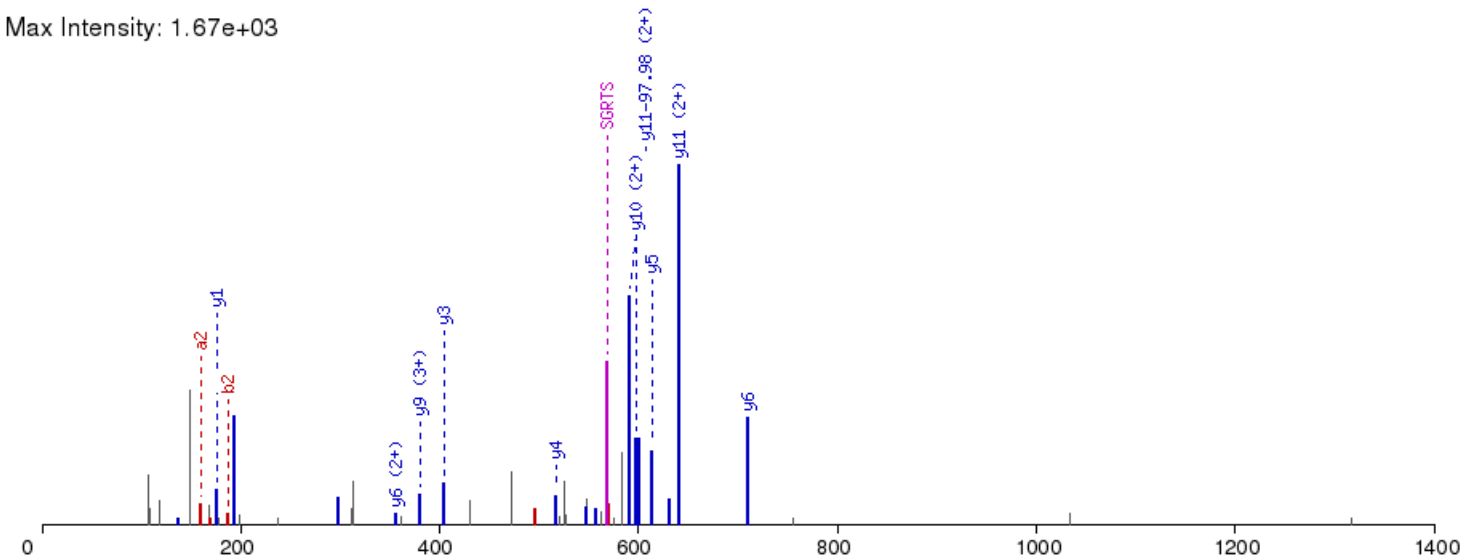
	R	D	S	P	P	P	P	A	R	
	1	2	3	4	5	6	7	8	9	
a		244.14								a
a (2+)		122.57								a (2+)
b		272.14	439.13	536.19	633.24	730.29	827.34	898.38		b
b-79.97			359.17	456.22	553.27	650.33	747.38	818.42		b-79.97
b-97.98			341.16	438.21	535.26	632.32	729.37	800.40		b-97.98
b (2+)		136.57	220.07	268.60	317.12	365.65	414.18	449.69		b (2+)
b-79.97 (2+)			180.09	228.61	277.14	325.67	374.19	409.71		b-79.97 (2+)
b-97.98 (2+)			171.08	219.61	268.13	316.66	365.19	400.71		b-97.98 (2+)
y		916.39	801.37	634.37	537.31	440.26	343.21	246.16	175.12	y
y-79.97		836.43	721.40							y-79.97
y-97.98		818.42	703.39							y-97.98
y (2+)		458.70	401.19	317.69	269.16	220.63	172.11	123.58	88.06	y (2+)
y-79.97 (2+)		418.72	361.20							y-79.97 (2+)
y-97.98 (2+)		409.71	352.20							y-97.98 (2+)
	R	D	S	P	P	P	P	A	R	
	9	8	7	6	5	4	3	2	1	

VSGRTS(+79.97)PPLDR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 459.901, Calc. m/z: 459.904
Data File: Pepmix5_HCD.RAW.-1, Scans: 1181 - 1181

Max Intensity: 1.67e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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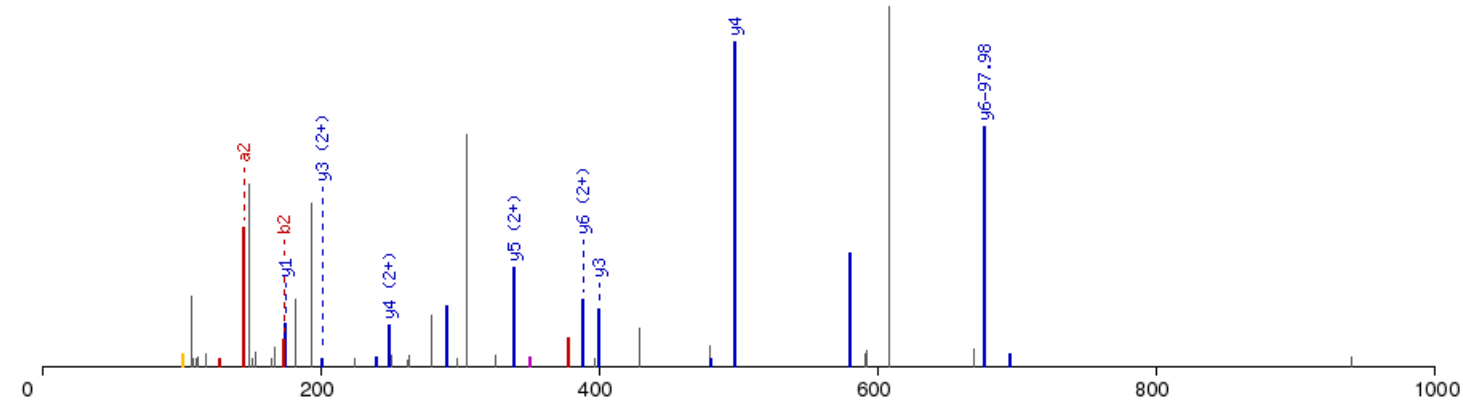
	V	S	G	R	T	S	P	P	L	L	D	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		159.11											a
b		187.11	244.13	400.23	501.28	668.28	765.33	862.38	975.47	1088.55	1203.58		b
b-79.97						588.31	685.36	782.42	895.50	1008.58	1123.61		b-79.97
b-97.98						570.30	667.35	764.40	877.49	990.57	1105.60		b-97.98
b (2+)				200.62	251.14	334.64	383.17	431.69	488.24	544.78	602.29		b (2+)
b-79.97 (2+)						294.66	343.19	391.71	448.25	504.80	562.31		b-79.97 (2+)
b-97.98 (2+)						285.65	334.18	382.71	439.25	495.79	553.30		b-97.98 (2+)
y		1278.62	1191.59	1134.57	978.47	877.42	710.42	613.37	516.31	403.23	290.15	175.12	y
y-79.97		1198.65	1111.62	1054.60	898.50	797.45							y-79.97
y-97.98		1180.64	1093.61	1036.59	880.49	779.44							y-97.98
y (2+)		639.81	596.30	567.79	489.74	439.21	355.71	307.19	258.66	202.12	145.58	88.06	y (2+)
y-79.97 (2+)		599.83	556.31	527.80	449.75	399.23							y-79.97 (2+)
y-97.98 (2+)		590.83	547.31	518.80	440.75	390.22							y-97.98 (2+)
y (3+)		426.88	397.87	378.86									y (3+)
y-79.97 (3+)		400.22	371.21	352.20									y-79.97 (3+)
y-97.98 (3+)		394.22	365.21	346.20									y-97.98 (3+)
	V	S	G	R	T	S	P	P	L	L	D	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

TAPT(+79.97)PPKR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 474.239, Calc. m/z: 474.243
Data File: Pepmix3_HCD.RAW.-1, Scans: 648 - 648

Max Intensity: 1.40e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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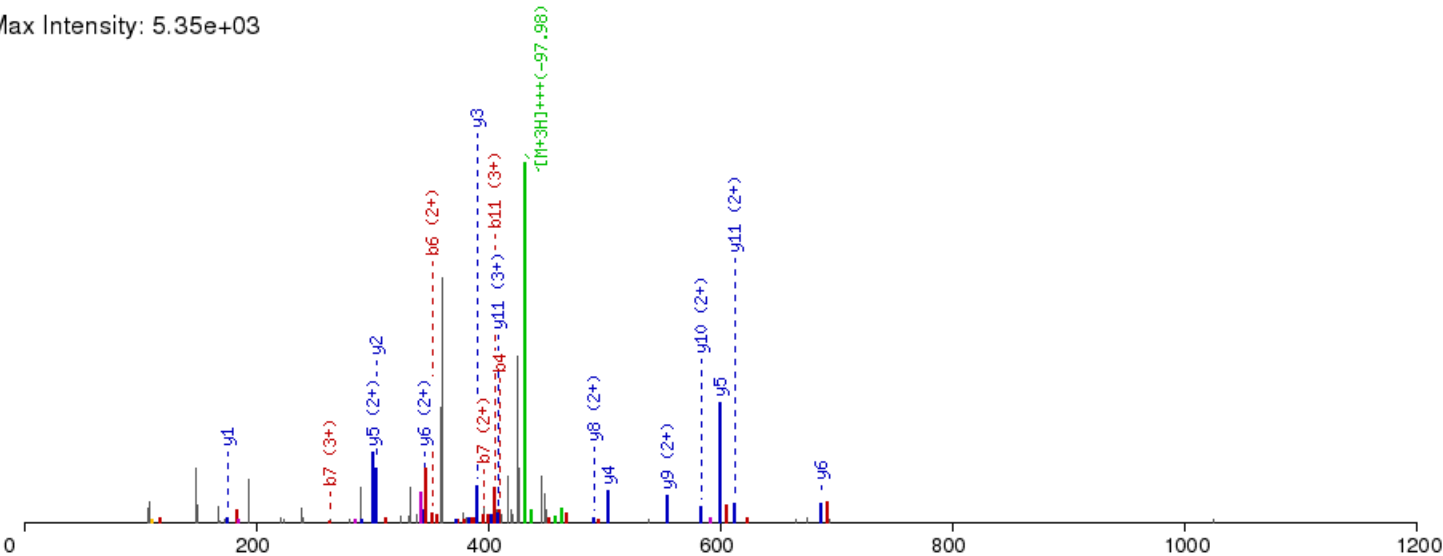
	T	A	P	T	P	P	K	R	
	1	2	3	4	5	6	7	8	
a		145.10							a
b		173.09	270.14	451.16	548.21	645.26	773.36		b
b-79.97				371.19	468.25	565.30	693.39		b-79.97
b-97.98				353.18	450.23	547.29	675.38		b-97.98
b (2+)							387.18		b (2+)
b-79.97 (2+)							347.20		b-79.97 (2+)
b-97.98 (2+)							338.19		b-97.98 (2+)
y		846.42	775.39	678.33	497.32	400.27	303.21	175.12	y
y-79.97		766.46	695.42	598.37					y-79.97
y-97.98		748.45	677.41	580.36					y-97.98
y (2+)		423.72	388.20	339.67	249.16	200.64	152.11	88.06	y (2+)
y-79.97 (2+)		383.73	348.21	299.69					y-79.97 (2+)
y-97.98 (2+)		374.73	339.21	290.68					y-97.98 (2+)
	T	A	P	T	P	P	K	R	
	8	7	6	5	4	3	2	1	

S(+79.97)GGQRHSPLSQR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 463.884, Calc. m/z: 463.887
Data File: Pepmix4_HCD.RAW.-1, Scans: 666 - 666

Max Intensity: 5.35e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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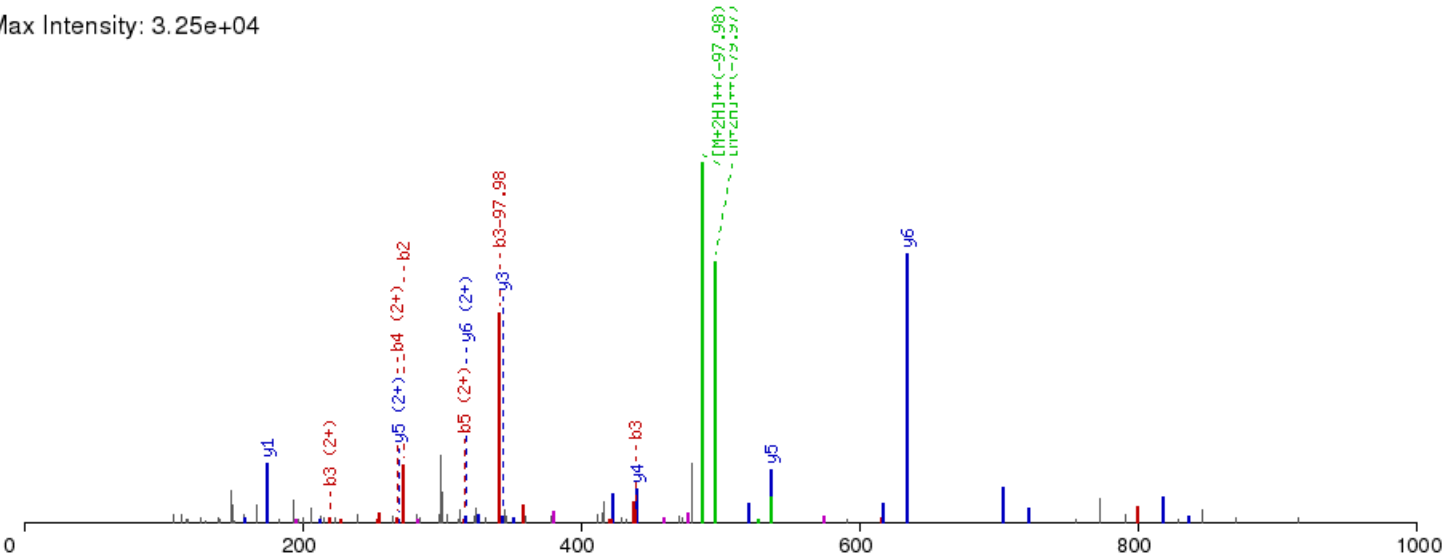
	S	G	G	Q	R	H	S	P	L	S	Q	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		197.03											a
a-79.97		117.07											a-79.97
a-97.98		99.06											a-97.98
b		225.03	282.05	410.11	566.21	703.27	790.30	887.35	1000.44	1087.47	1215.53		b
b-79.97		145.06	202.08	330.14	486.24	623.30	710.33	807.39	920.47	1007.50	1135.56		b-79.97
b-97.98		127.05	184.07	312.13	468.23	605.29	692.32	789.38	902.46	989.49	1117.55		b-97.98
b (2+)					283.61	352.14	395.65	444.18	500.72	544.24	608.27		b (2+)
b-79.97 (2+)					243.62	312.15	355.67	404.20	460.74	504.25	568.28		b-79.97 (2+)
b-97.98 (2+)					234.62	303.15	346.66	395.19	451.73	495.25	559.28		b-97.98 (2+)
b (3+)						235.09	264.10	296.46	334.15	363.16	405.85		b (3+)
b-79.97 (3+)						208.44	237.45	269.80	307.49	336.51	379.19		b-79.97 (3+)
b-97.98 (3+)						202.43	231.45	263.80	301.49	330.50	373.19		b-97.98 (3+)
y		1222.64	1165.62	1108.60	980.54	824.44	687.38	600.35	503.29	390.21	303.18	175.12	y
y (2+)		611.82	583.31	554.80	490.77	412.72	344.19	300.68	252.15	195.61	152.09	88.06	y (2+)
y (3+)		408.22	389.21	370.20	327.52	275.48							y (3+)
	S	G	G	Q	R	H	S	P	L	S	Q	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

RDS(+79.97)PPPPAR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 536.750, Calc. m/z: 536.752
Data File: Pepmix2_HCD.RAW.-1, Scans: 599 - 599

Max Intensity: 3.25e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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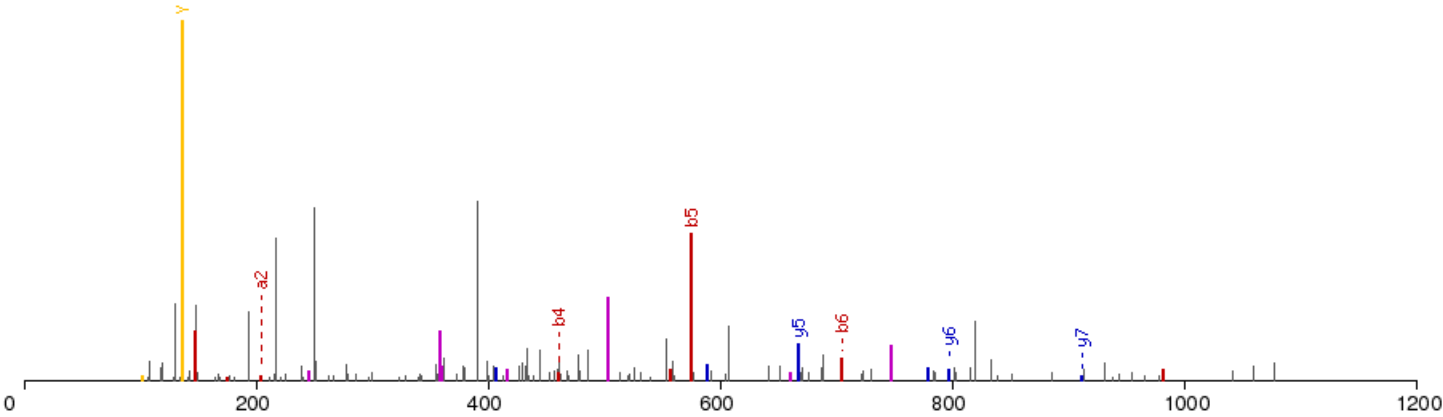
	R	D	S	P	P	P	P	A	R	
	1	2	3	4	5	6	7	8	9	
a		244.14								a
a (2+)		122.57								a (2+)
b		272.14	439.13	536.19	633.24	730.29	827.34	898.38		b
b-79.97			359.17	456.22	553.27	650.33	747.38	818.42		b-79.97
b-97.98			341.16	438.21	535.26	632.32	729.37	800.40		b-97.98
b (2+)		136.57	220.07	268.60	317.12	365.65	414.18	449.69		b (2+)
b-79.97 (2+)			180.09	228.61	277.14	325.67	374.19	409.71		b-79.97 (2+)
b-97.98 (2+)			171.08	219.61	268.13	316.66	365.19	400.71		b-97.98 (2+)
y		916.39	801.37	634.37	537.31	440.26	343.21	246.16	175.12	y
y-79.97		836.43	721.40							y-79.97
y-97.98		818.42	703.39							y-97.98
y (2+)		458.70	401.19	317.69	269.16	220.63	172.11	123.58	88.06	y (2+)
y-79.97 (2+)		418.72	361.20							y-79.97 (2+)
y-97.98 (2+)		409.71	352.20							y-97.98 (2+)
	R	D	S	P	P	P	P	A	R	
	9	8	7	6	5	4	3	2	1	

AC(+57.02)LDDEY(+79.97)DGSM(+15.99)

Identified in MSS769 1 x Phospho (Y) 1 x Carbamidomethyl (C) 1 x Oxidation (M)

Charge: 2, Exp. m/z: 686.209, Calc. m/z: 686.207
Data File: Pepmix2_HCD.RAW.-1, Scans: 1218 - 1218

Max Intensity: 2.95e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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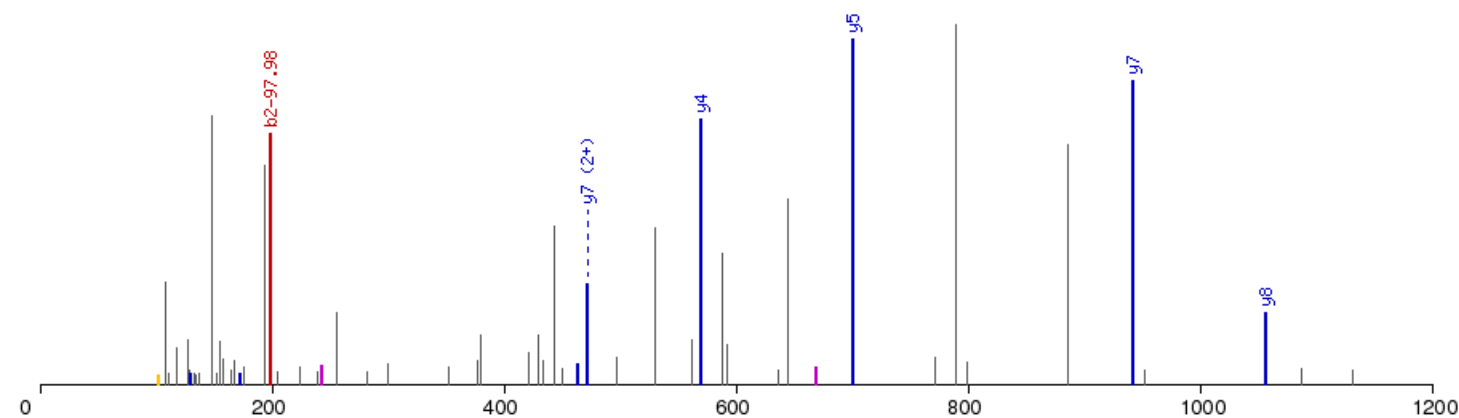
	A	C	L	D	D	E	Y	D	G	S	M	
	1	2	3	4	5	6	7	8	9	10	11	
a		204.08										a
a-57.02		147.06										a-57.02
b		232.08	345.16	460.19	575.21	704.26	947.29	1062.31	1119.33	1206.37		b
b-18.01				442.18	557.20	686.25	929.27	1044.30	1101.32	1188.36		b-18.01
b-57.02		175.05	288.14	403.16	518.19	647.23	890.26	1005.29	1062.31	1149.34		b-57.02
b-79.97							867.32	982.35	1039.37	1126.40		b-79.97
y		1300.37	1140.34	1027.26	912.23	797.21	668.16	425.13	310.11	253.09	166.05	y
y-18.01		1282.36	1122.33	1009.25	894.22	779.20	650.15	407.12	292.10	235.07		y-18.01
y-57.02		1243.35										y-57.02
y-79.97		1220.41	1060.38	947.29	832.27	717.24	588.20					y-79.97
	A	C	L	D	D	E	Y	D	G	S	M	
	11	10	9	8	7	6	5	4	3	2	1	

T(+79.97)NQLMET(+79.97)LK

Identified in MSS769 2 x Phospho (ST)

Charge: 2, Exp. m/z: 619.252, Calc. m/z: 619.252
Data File: Pepmix5_HCD.RAW.-1, Scans: 560 - 560

Max Intensity: 8.78e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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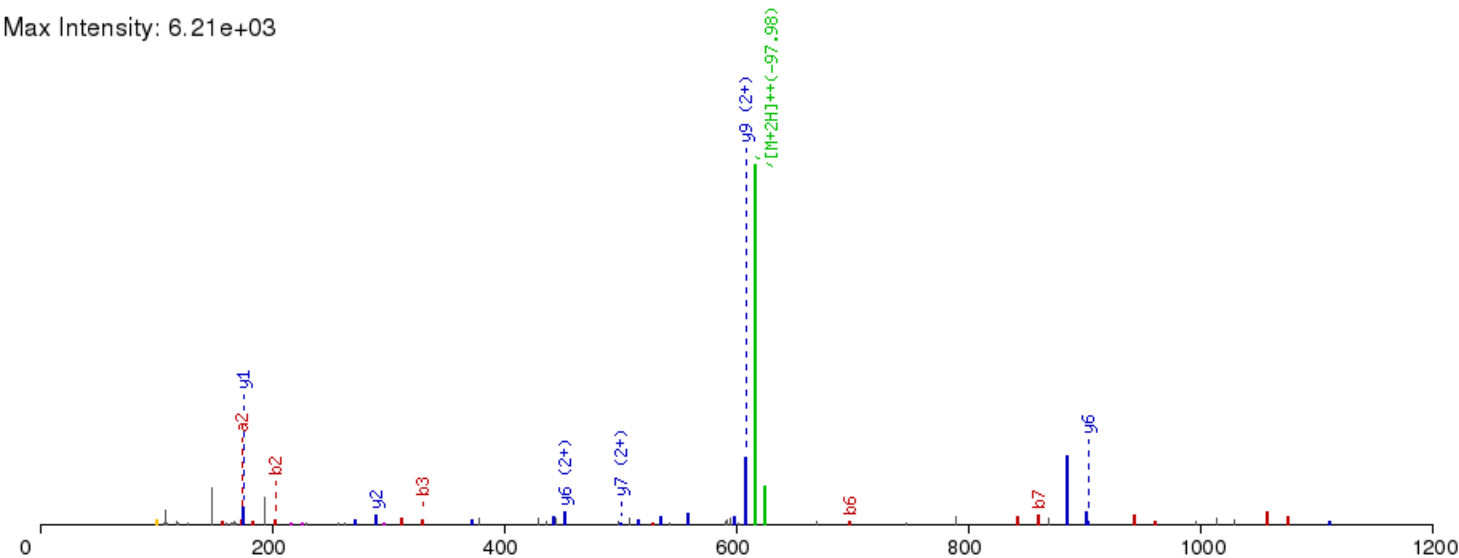
	T	N	Q	L	M	E	T	L	K	
	1	2	3	4	5	6	7	8	9	
a		268.07								a
a-79.97		188.10								a-79.97
a-97.98		170.09								a-97.98
b		296.06	424.12	537.21	668.25	797.29	978.30	1091.39		b
b-79.97		216.10	344.16	457.24	588.28	717.32	898.34	1011.42		b-79.97
b-97.98		198.09	326.15	439.23	570.27	699.31	880.33	993.41		b-97.98
y		1056.48	942.44	814.38	701.29	570.25	441.21	260.20	147.11	y
y-79.97		976.51	862.47	734.41	621.33	490.29	361.24			y-79.97
y-97.98		958.50	844.46	716.40	603.32	472.28	343.23			y-97.98
y (2+)		528.74	471.72	407.69	351.15	285.63	221.11	130.60	74.06	y (2+)
y-79.97 (2+)		488.76	431.74	367.71	311.17	245.65	181.13			y-79.97 (2+)
y-97.98 (2+)		479.75	422.73	358.70	302.16	236.64	172.12			y-97.98 (2+)
	T	N	Q	L	M	E	T	L	K	
	9	8	7	6	5	4	3	2	1	

NSQPNRYT(+79.97)NR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 665.289, Calc. m/z: 665.292
Data File: Pepmix2_HCD.RAW.-1, Scans: 577 - 577

Max Intensity: 6.21e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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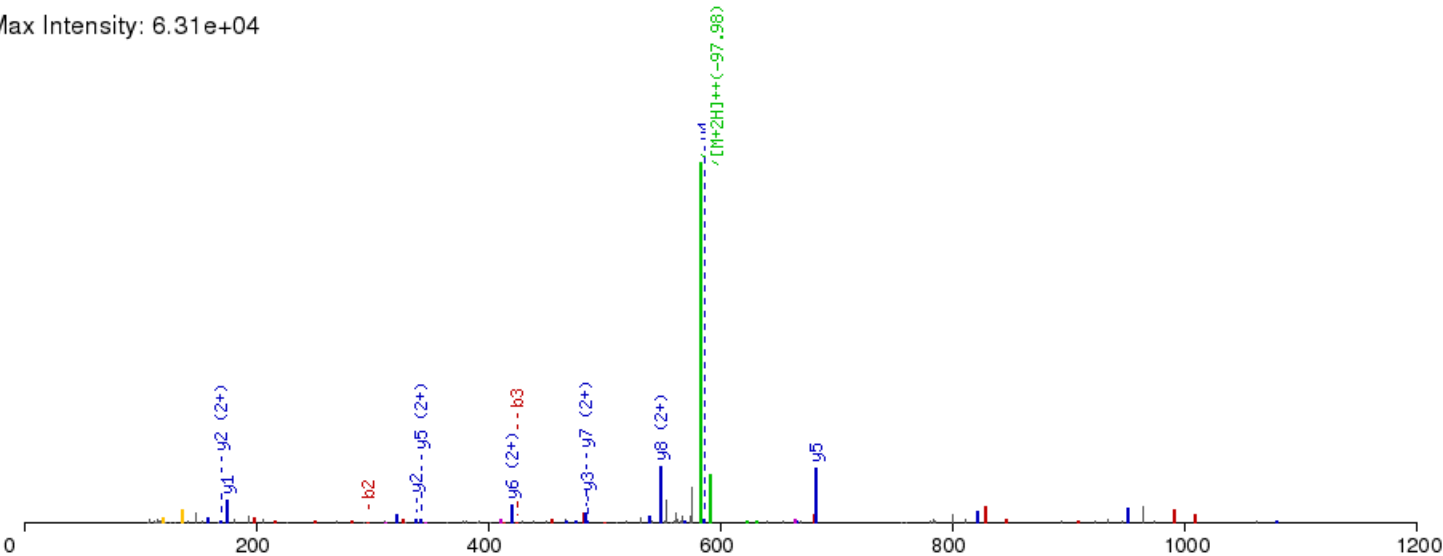
	N	S	Q	P	N	R	Y	T	N	R	
	1	2	3	4	5	6	7	8	9	10	
a		174.09									a
b		202.08	330.14	427.19	541.24	697.34	860.40	1041.41	1155.46		b
b-79.97								961.45	1075.49		b-79.97
b-97.98								943.44	1057.48		b-97.98
b (2+)						349.17	430.70	521.21	578.23		b (2+)
b-79.97 (2+)								481.23	538.25		b-79.97 (2+)
b-97.98 (2+)								472.22	529.24		b-97.98 (2+)
y		1215.53	1128.49	1000.44	903.38	789.34	633.24	470.18	289.16	175.12	y
y-79.97		1135.56	1048.53	920.47	823.42	709.37	553.27	390.21			y-79.97
y-97.98		1117.55	1030.52	902.46	805.41	691.36	535.26	372.20			y-97.98
y (2+)		608.27	564.75	500.72	452.20	395.17	317.12	235.59	145.08	88.06	y (2+)
y-79.97 (2+)		568.28	524.77	460.74	412.21	355.19	277.14	195.61			y-79.97 (2+)
y-97.98 (2+)		559.28	515.76	451.73	403.21	346.19	268.13	186.60			y-97.98 (2+)
	N	S	Q	P	N	R	Y	T	N	R	
	10	9	8	7	6	5	4	3	2	1	

S(+79.97)QERPTFYR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 632.280, Calc. m/z: 632.282
Data File: Pepmix3_HCD.RAW.-1, Scans: 1156 - 1156

Max Intensity: 6.31e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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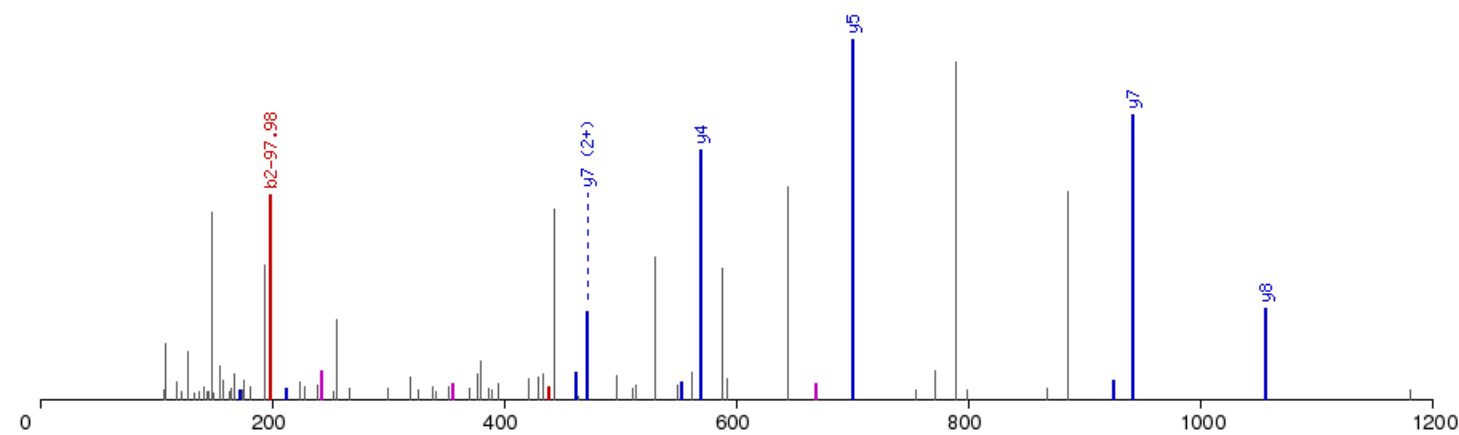
	S	Q	E	R	P	T	F	Y	R	
	1	2	3	4	5	6	7	8	9	
a		268.07								a
a-79.97		188.10								a-79.97
a-97.98		170.09								a-97.98
b		296.06	425.11	581.21	678.26	779.31	926.38	1089.44		b
b-79.97		216.10	345.14	501.24	598.29	699.34	846.41	1009.47		b-79.97
b-97.98		198.09	327.13	483.23	580.28	681.33	828.40	991.46		b-97.98
b (2+)				291.11	339.63	390.16	463.69	545.22		b (2+)
b-79.97 (2+)				251.12	299.65	350.17	423.71	505.24		b-79.97 (2+)
b-97.98 (2+)				242.12	290.65	341.17	414.70	496.24		b-97.98 (2+)
y		1096.55	968.49	839.45	683.35	586.30	485.25	338.18	175.12	y
y (2+)		548.78	484.75	420.23	342.18	293.65	243.13	169.59	88.06	y (2+)
	S	Q	E	R	P	T	F	Y	R	
	9	8	7	6	5	4	3	2	1	

T(+79.97)NQLMET(+79.97)LK

Identified in MSS769 2 x Phospho (ST)

Charge: 2, Exp. m/z: 619.252, Calc. m/z: 619.252
Data File: Pepmix5_HCD.RAW.-1, Scans: 556 - 556

Max Intensity: 1.29e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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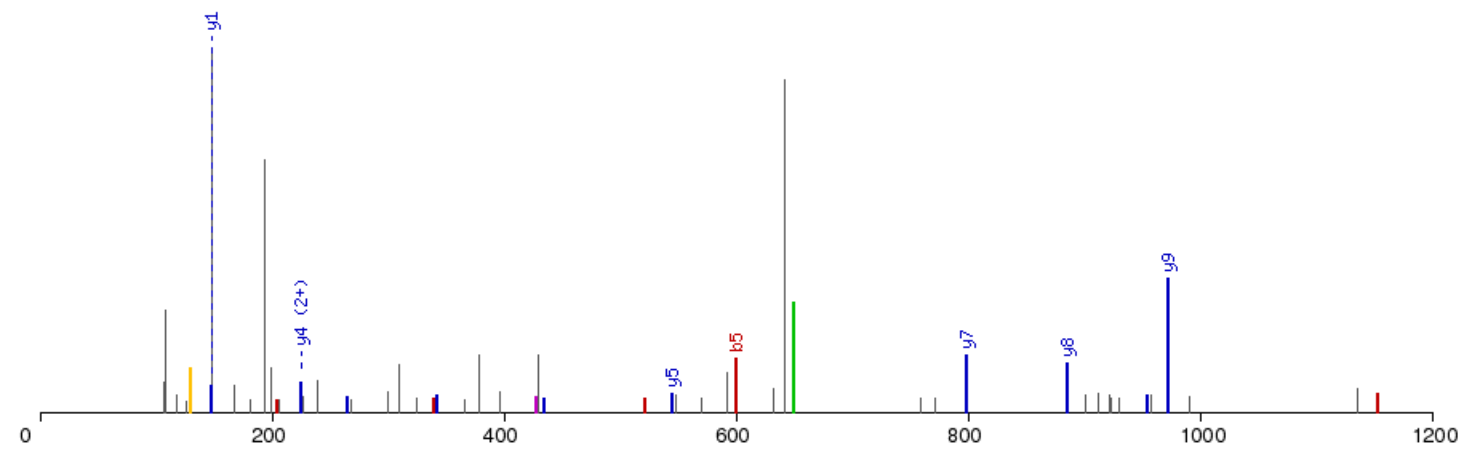
	T	N	Q	L	M	E	T	L	K	
	1	2	3	4	5	6	7	8	9	
a		268.07								a
a-79.97		188.10								a-79.97
a-97.98		170.09								a-97.98
b		296.06	424.12	537.21	668.25	797.29	978.30	1091.39		b
b-79.97		216.10	344.16	457.24	588.28	717.32	898.34	1011.42		b-79.97
b-97.98		198.09	326.15	439.23	570.27	699.31	880.33	993.41		b-97.98
y		1056.48	942.44	814.38	701.29	570.25	441.21	260.20	147.11	y
y-79.97		976.51	862.47	734.41	621.33	490.29	361.24			y-79.97
y-97.98		958.50	844.46	716.40	603.32	472.28	343.23			y-97.98
y (2+)		528.74	471.72	407.69	351.15	285.63	221.11	130.60	74.06	y (2+)
y-79.97 (2+)		488.76	431.74	367.71	311.17	245.65	181.13			y-79.97 (2+)
y-97.98 (2+)		479.75	422.73	358.70	302.16	236.64	172.12			y-97.98 (2+)
	T	N	Q	L	M	E	T	L	K	
	9	8	7	6	5	4	3	2	1	

ES(+79.97)KSSPRPTAEK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 698.828, Calc. m/z: 698.827
Data File: Pepmix2_HCD.RAW.-1, Scans: 510 - 510

Max Intensity: 8.00e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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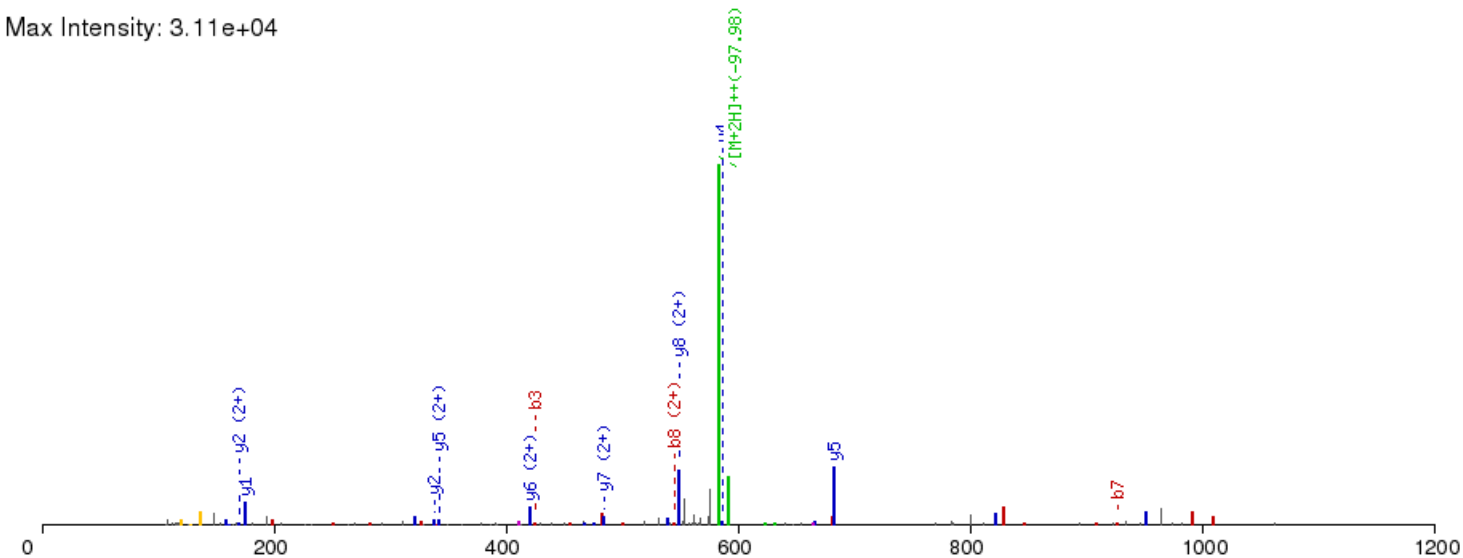
	E	S	K	S	S	P	R	P	T	A	E	K	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		269.05											a
a-79.97		189.09											a-79.97
a-97.98		171.08											a-97.98
b		297.05	425.14	512.18	599.21	696.26	852.36	949.41	1050.46	1121.50	1250.54		b
b-79.97		217.08	345.18	432.21	519.24	616.29	772.39	869.45	970.50	1041.53	1170.57		b-79.97
b-97.98		199.07	327.17	414.20	501.23	598.28	754.38	851.44	952.48	1023.52	1152.56		b-97.98
b (2+)			213.08	256.59	300.11	348.63	426.68	475.21	525.73	561.25	625.77		b (2+)
b-79.97 (2+)			173.09	216.61	260.12	308.65	386.70	435.23	485.75	521.27	585.79		b-79.97 (2+)
b-97.98 (2+)			164.09	207.60	251.12	299.65	377.70	426.22	476.75	512.26	576.79		b-97.98 (2+)
y		1267.60	1100.61	972.51	885.48	798.45	701.39	545.29	448.24	347.19	276.16	147.11	y
y-79.97		1187.64											y-79.97
y-97.98		1169.63											y-97.98
y (2+)		634.31	550.81	486.76	443.24	399.73	351.20	273.15	224.62	174.10	138.58	74.06	y (2+)
y-79.97 (2+)		594.32											y-79.97 (2+)
y-97.98 (2+)		585.32											y-97.98 (2+)
	E	S	K	S	S	P	R	P	T	A	E	K	
	12	11	10	9	8	7	6	5	4	3	2	1	

S(+79.97)QERPTFYR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 632.280, Calc. m/z: 632.282
Data File: Pepmix3_HCD.RAW.-1, Scans: 1152 - 1152

Max Intensity: 3.11e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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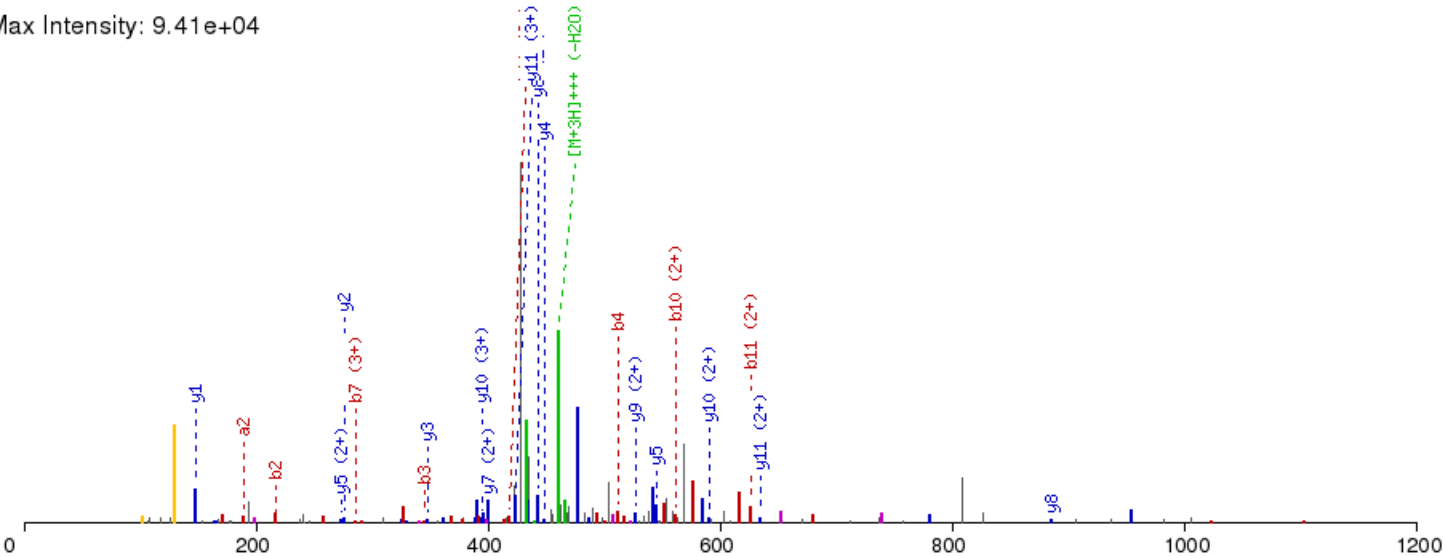
	S	Q	E	R	P	T	F	Y	R	
	1	2	3	4	5	6	7	8	9	
a		268.07								a
a-79.97		188.10								a-79.97
a-97.98		170.09								a-97.98
b		296.06	425.11	581.21	678.26	779.31	926.38	1089.44		b
b-79.97		216.10	345.14	501.24	598.29	699.34	846.41	1009.47		b-79.97
b-97.98		198.09	327.13	483.23	580.28	681.33	828.40	991.46		b-97.98
b (2+)				291.11	339.63	390.16	463.69	545.22		b (2+)
b-79.97 (2+)				251.12	299.65	350.17	423.71	505.24		b-79.97 (2+)
b-97.98 (2+)				242.12	290.65	341.17	414.70	496.24		b-97.98 (2+)
y		1096.55	968.49	839.45	683.35	586.30	485.25	338.18	175.12	y
y (2+)		548.78	484.75	420.23	342.18	293.65	243.13	169.59	88.06	y (2+)
	S	Q	E	R	P	T	F	Y	R	
	9	8	7	6	5	4	3	2	1	

ESKS(+79.97)SPRPPTAEK

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 466.220, Calc. m/z: 466.224
Data File: Pepmix3_HCD.RAW.-1, Scans: 497 - 497

Max Intensity: 9.41e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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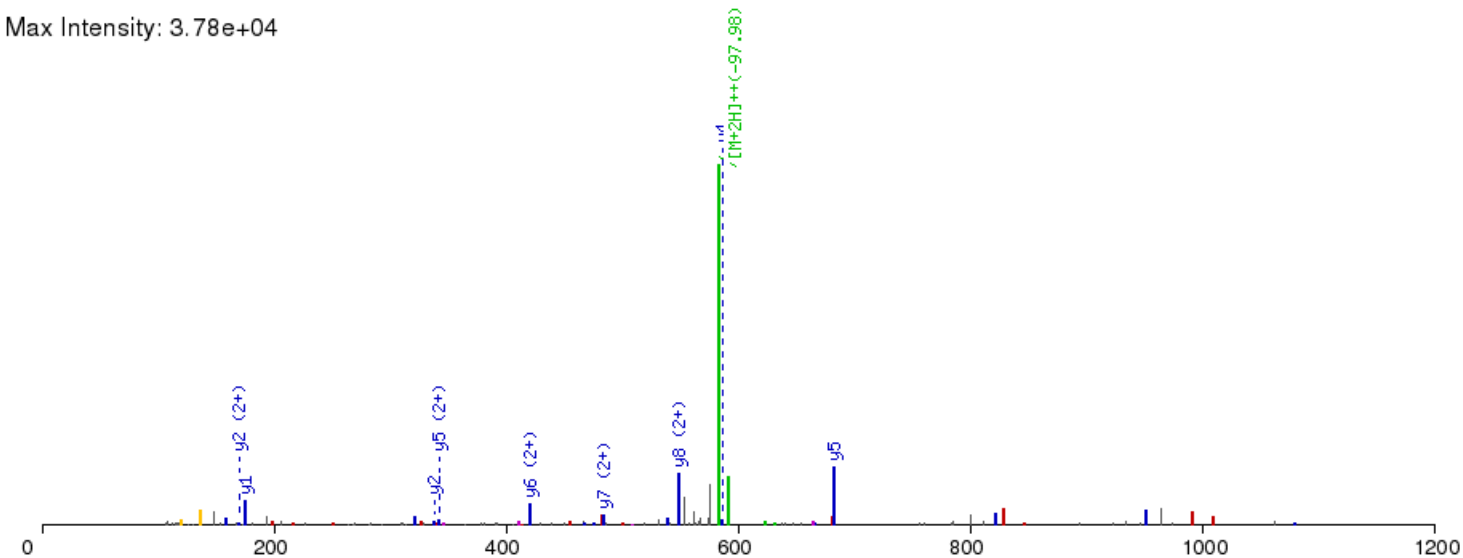
	E	S	K	S	S	P	R	P	T	A	E	K	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		189.09											a
b		217.08	345.18	512.18	599.21	696.26	852.36	949.41	1050.46	1121.50	1250.54		b
b-79.97				432.21	519.24	616.29	772.39	869.45	970.50	1041.53	1170.57		b-79.97
b-97.98				414.20	501.23	598.28	754.38	851.44	952.48	1023.52	1152.56		b-97.98
b (2+)			173.09	256.59	300.11	348.63	426.68	475.21	525.73	561.25	625.77		b (2+)
b-79.97 (2+)				216.61	260.12	308.65	386.70	435.23	485.75	521.27	585.79		b-79.97 (2+)
b-97.98 (2+)				207.60	251.12	299.65	377.70	426.22	476.75	512.26	576.79		b-97.98 (2+)
b (3+)							284.79	317.14	350.83	374.50	417.52		b (3+)
b-79.97 (3+)							258.14	290.49	324.17	347.85	390.86		b-79.97 (3+)
b-97.98 (3+)							252.13	284.48	318.17	341.85	384.86		b-97.98 (3+)
y		1267.60	1180.57	1052.48	885.48	798.45	701.39	545.29	448.24	347.19	276.16	147.11	y
y-79.97		1187.64	1100.61	972.51									y-79.97
y-97.98		1169.63	1082.60	954.50									y-97.98
y (2+)		634.31	590.79	526.74	443.24	399.73	351.20	273.15	224.62	174.10	138.58	74.06	y (2+)
y-79.97 (2+)		594.32	550.81	486.76									y-79.97 (2+)
y-97.98 (2+)		585.32	541.80	477.75									y-97.98 (2+)
y (3+)		423.21	394.20	351.50	295.83	266.82	234.47						y (3+)
y-79.97 (3+)		396.55	367.54	324.84									y-79.97 (3+)
y-97.98 (3+)		390.55	361.54	318.84									y-97.98 (3+)
	E	S	K	S	S	P	R	P	T	A	E	K	
	12	11	10	9	8	7	6	5	4	3	2	1	

S(+79.97)QERPTFYR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 632.280, Calc. m/z: 632.282
Data File: Pepmix3_HCD.RAW.-1, Scans: 1162 - 1162

Max Intensity: 3.78e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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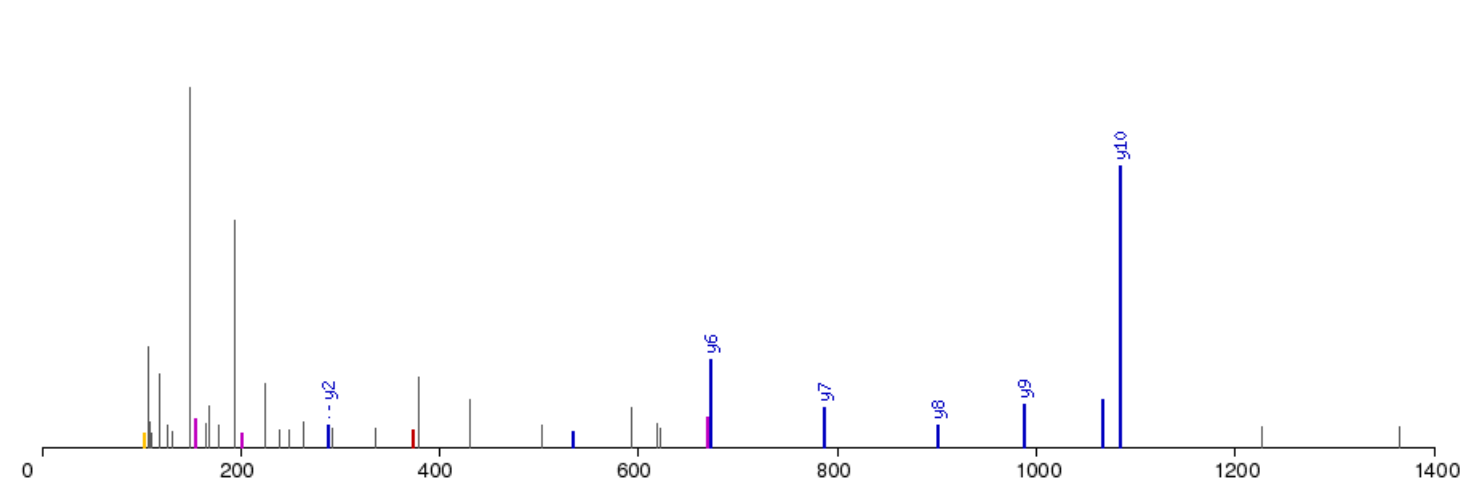
	S	Q	E	R	P	T	F	Y	R	
	1	2	3	4	5	6	7	8	9	
a		268.07								a
a-79.97		188.10								a-79.97
a-97.98		170.09								a-97.98
b		296.06	425.11	581.21	678.26	779.31	926.38	1089.44		b
b-79.97		216.10	345.14	501.24	598.29	699.34	846.41	1009.47		b-79.97
b-97.98		198.09	327.13	483.23	580.28	681.33	828.40	991.46		b-97.98
b (2+)				291.11	339.63	390.16	463.69	545.22		b (2+)
b-79.97 (2+)				251.12	299.65	350.17	423.71	505.24		b-79.97 (2+)
b-97.98 (2+)				242.12	290.65	341.17	414.70	496.24		b-97.98 (2+)
y		1096.55	968.49	839.45	683.35	586.30	485.25	338.18	175.12	y
y (2+)		548.78	484.75	420.23	342.18	293.65	243.13	169.59	88.06	y (2+)
	S	Q	E	R	P	T	F	Y	R	
	9	8	7	6	5	4	3	2	1	

ATS(+79.97)LPSLDTPGELR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 768.872, Calc. m/z: 768.872
 Data File: Pepmix4_HCD.RAW.-1, Scans: 1765 - 1765

Max Intensity: 6.15e+02



Sequence Ladder Ions

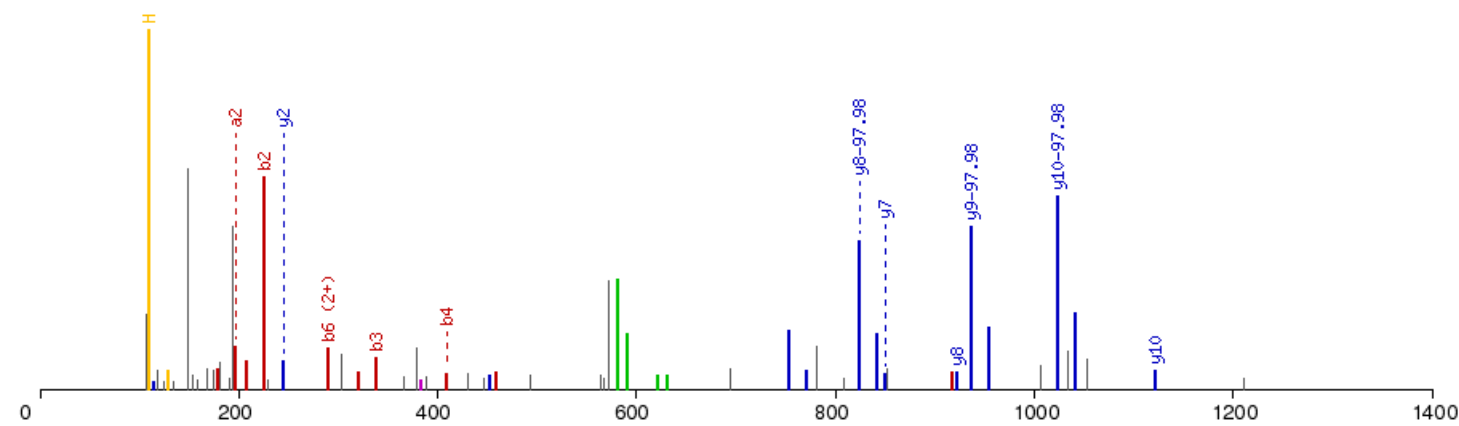
Key:	m/z out of range of spectrum				matched c-term ion			unmatched c-term ion			matched n-term ion			unmatched n-term ion	
	A	T	S	L	P	S	L	D	T	P	G	E	L	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		145.10													a
b		173.09	340.09	453.17	550.23	637.26	750.34	865.37	966.42	1063.47	1120.49	1249.53	1362.62		b
b-79.97			260.12	373.21	470.26	557.29	670.38	785.40	886.45	983.50	1040.53	1169.57	1282.65		b-79.97
b-97.98			242.11	355.20	452.25	539.28	652.37	767.39	868.44	965.49	1022.52	1151.56	1264.64		b-97.98
y		1465.69	1364.65	1197.65	1084.56	987.51	900.48	787.39	672.37	571.32	474.27	417.25	288.20	175.12	y
y-79.97		1385.73	1284.68												y-79.97
y-97.98		1367.72	1266.67												y-97.98
y (2+)		733.35	682.83	599.33	542.79	494.26	450.74	394.20	336.69	286.16	237.64	209.13	144.61	88.06	y (2+)
y-79.97 (2+)		693.37	642.84												y-79.97 (2+)
y-97.98 (2+)		684.36	633.84												y-97.98 (2+)
	A	T	S	L	P	S	L	D	T	P	G	E	L	R	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

HSIAGIIRS(+79.97)PK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 629.838, Calc. m/z: 629.842
Data File: Pepmix1_HCD.RAW.-1, Scans: 1242 - 1242

Max Intensity: 1.07e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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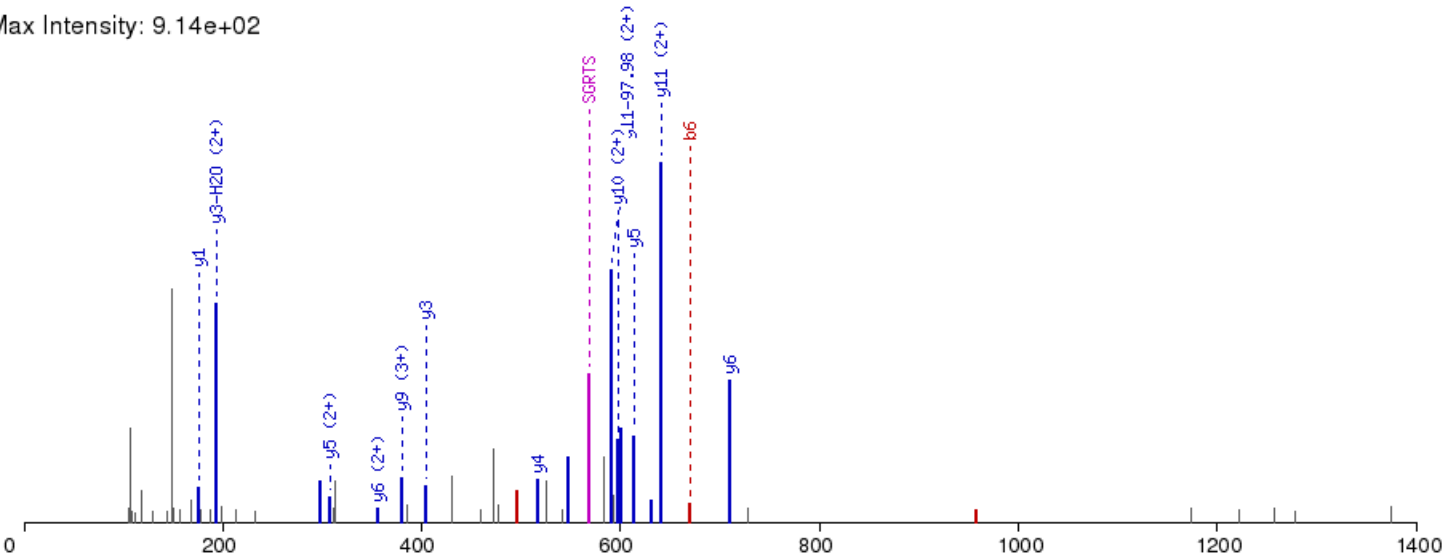
	H	S	I	A	G	I	I	R	S	P	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		197.10										a
a (2+)		99.06										a (2+)
b		225.10	338.18	409.22	466.24	579.32	692.41	848.51	1015.51	1112.56		b
b-79.97									935.54	1032.59		b-79.97
b-97.98									917.53	1014.58		b-97.98
b (2+)		113.05	169.59	205.11	233.62	290.17	346.71	424.76	508.26	556.78		b (2+)
b-79.97 (2+)									468.27	516.80		b-79.97 (2+)
b-97.98 (2+)									459.27	507.80		b-97.98 (2+)
y		1121.61	1034.58	921.49	850.45	793.43	680.35	567.27	411.16	244.17	147.11	y
y-79.97		1041.64	954.61	841.53	770.49	713.47	600.38	487.30	331.20			y-79.97
y-97.98		1023.63	936.60	823.51	752.48	695.46	582.37	469.29	313.19			y-97.98
y (2+)		561.31	517.79	461.25	425.73	397.22	340.68	284.14	206.09	122.59	74.06	y (2+)
y-79.97 (2+)		521.32	477.81	421.27	385.75	357.24	300.70	244.15	166.10			y-79.97 (2+)
y-97.98 (2+)		512.32	468.80	412.26	376.74	348.23	291.69	235.15	157.10			y-97.98 (2+)
	H	S	I	A	G	I	I	R	S	P	K	
	11	10	9	8	7	6	5	4	3	2	1	

VSGRTS(+79.97)PPLDR

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 459.901, Calc. m/z: 459.904
Data File: Pepmix5_HCD.RAW.-1, Scans: 1152 - 1152

Max Intensity: 9.14e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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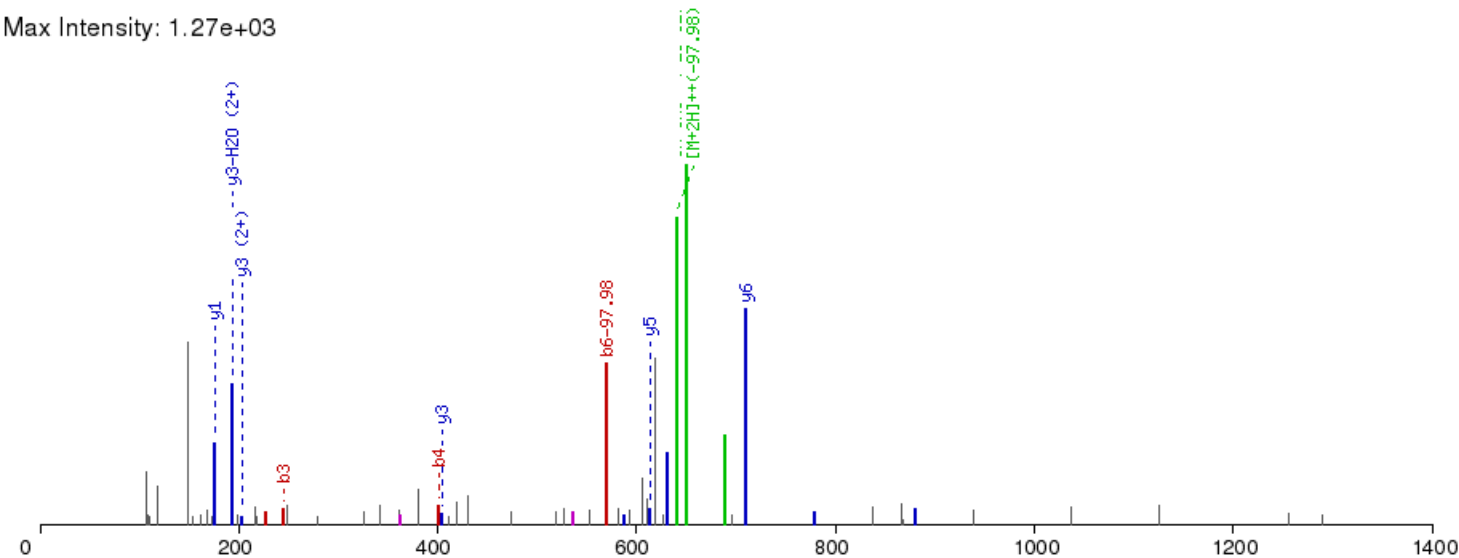
	V	S	G	R	T	S	P	P	L	L	D	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		159.11											a
b		187.11	244.13	400.23	501.28	668.28	765.33	862.38	975.47	1088.55	1203.58		b
b-79.97						588.31	685.36	782.42	895.50	1008.58	1123.61		b-79.97
b-97.98						570.30	667.35	764.40	877.49	990.57	1105.60		b-97.98
b (2+)				200.62	251.14	334.64	383.17	431.69	488.24	544.78	602.29		b (2+)
b-79.97 (2+)						294.66	343.19	391.71	448.25	504.80	562.31		b-79.97 (2+)
b-97.98 (2+)						285.65	334.18	382.71	439.25	495.79	553.30		b-97.98 (2+)
y		1278.62	1191.59	1134.57	978.47	877.42	710.42	613.37	516.31	403.23	290.15	175.12	y
y-79.97		1198.65	1111.62	1054.60	898.50	797.45							y-79.97
y-97.98		1180.64	1093.61	1036.59	880.49	779.44							y-97.98
y (2+)		639.81	596.30	567.79	489.74	439.21	355.71	307.19	258.66	202.12	145.58	88.06	y (2+)
y-79.97 (2+)		599.83	556.31	527.80	449.75	399.23							y-79.97 (2+)
y-97.98 (2+)		590.83	547.31	518.80	440.75	390.22							y-97.98 (2+)
y (3+)		426.88	397.87	378.86									y (3+)
y-79.97 (3+)		400.22	371.21	352.20									y-79.97 (3+)
y-97.98 (3+)		394.22	365.21	346.20									y-97.98 (3+)
	V	S	G	R	T	S	P	P	L	L	D	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

VSGRTS(+79.97)PPLDR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 689.349, Calc. m/z: 689.352
Data File: Pepmix5_HCD.RAW.-1, Scans: 1146 - 1146

Max Intensity: 1.27e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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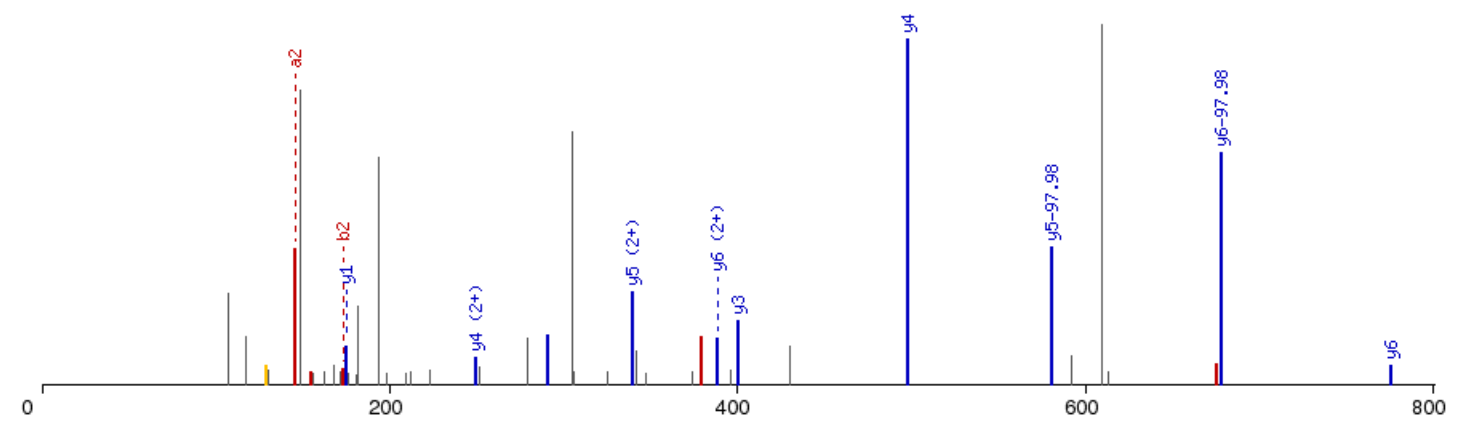
	V	S	G	R	T	S	P	P	L	L	D	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		159.11											a
b		187.11	244.13	400.23	501.28	668.28	765.33	862.38	975.47	1088.55	1203.58		b
b-79.97						588.31	685.36	782.42	895.50	1008.58	1123.61		b-79.97
b-97.98						570.30	667.35	764.40	877.49	990.57	1105.60		b-97.98
b (2+)				200.62	251.14	334.64	383.17	431.69	488.24	544.78	602.29		b (2+)
b-79.97 (2+)						294.66	343.19	391.71	448.25	504.80	562.31		b-79.97 (2+)
b-97.98 (2+)						285.65	334.18	382.71	439.25	495.79	553.30		b-97.98 (2+)
y		1278.62	1191.59	1134.57	978.47	877.42	710.42	613.37	516.31	403.23	290.15	175.12	y
y-79.97		1198.65	1111.62	1054.60	898.50	797.45							y-79.97
y-97.98		1180.64	1093.61	1036.59	880.49	779.44							y-97.98
y (2+)		639.81	596.30	567.79	489.74	439.21	355.71	307.19	258.66	202.12	145.58	88.06	y (2+)
y-79.97 (2+)		599.83	556.31	527.80	449.75	399.23							y-79.97 (2+)
y-97.98 (2+)		590.83	547.31	518.80	440.75	390.22							y-97.98 (2+)
	V	S	G	R	T	S	P	P	L	L	D	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

TAPT(+79.97)PPKR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 474.239, Calc. m/z: 474.239
Data File: Pepmix3_HCD.RAW.-1, Scans: 641 - 641

Max Intensity: 9.60e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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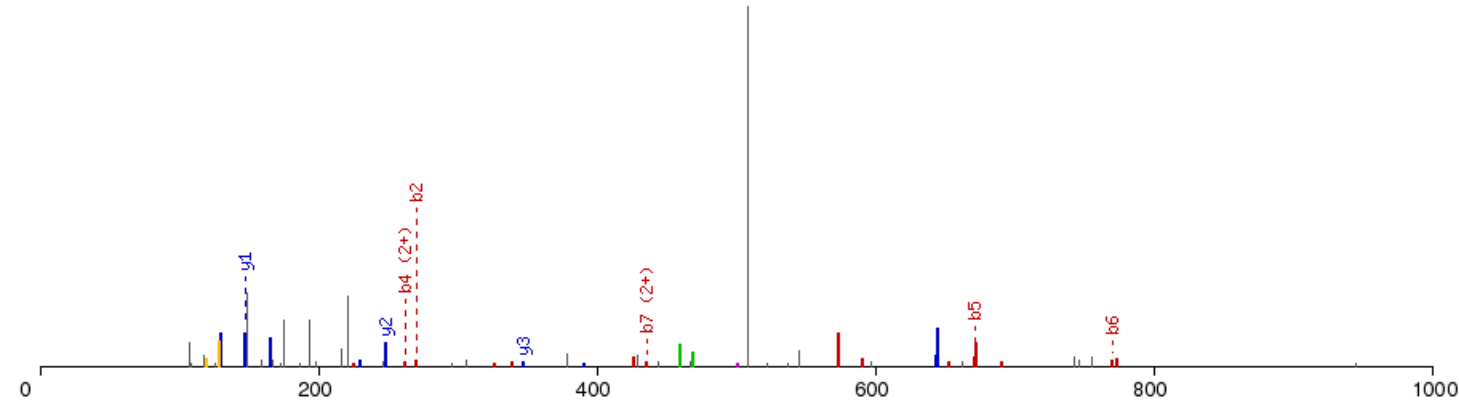
	T	A	P	T	P	P	K	R	
	1	2	3	4	5	6	7	8	
a		145.10							a
b		173.09	270.14	451.16	548.21	645.26	773.36		b
b-79.97				371.19	468.25	565.30	693.39		b-79.97
b-97.98				353.18	450.23	547.29	675.38		b-97.98
b (2+)							387.18		b (2+)
b-79.97 (2+)							347.20		b-79.97 (2+)
b-97.98 (2+)							338.19		b-97.98 (2+)
y		846.42	775.39	678.33	497.32	400.27	303.21	175.12	y
y-79.97		766.46	695.42	598.37					y-79.97
y-97.98		748.45	677.41	580.36					y-97.98
y (2+)		423.72	388.20	339.67	249.16	200.64	152.11	88.06	y (2+)
y-79.97 (2+)		383.73	348.21	299.69					y-79.97 (2+)
y-97.98 (2+)		374.73	339.21	290.68					y-97.98 (2+)
	T	A	P	T	P	P	K	R	
	8	7	6	5	4	3	2	1	

RLSS(+79.97)FVTK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 509.260, Calc. m/z: 509.262
Data File: Pepmix1_HCD.RAW.-1, Scans: 1345 - 1345

Max Intensity: 3.42e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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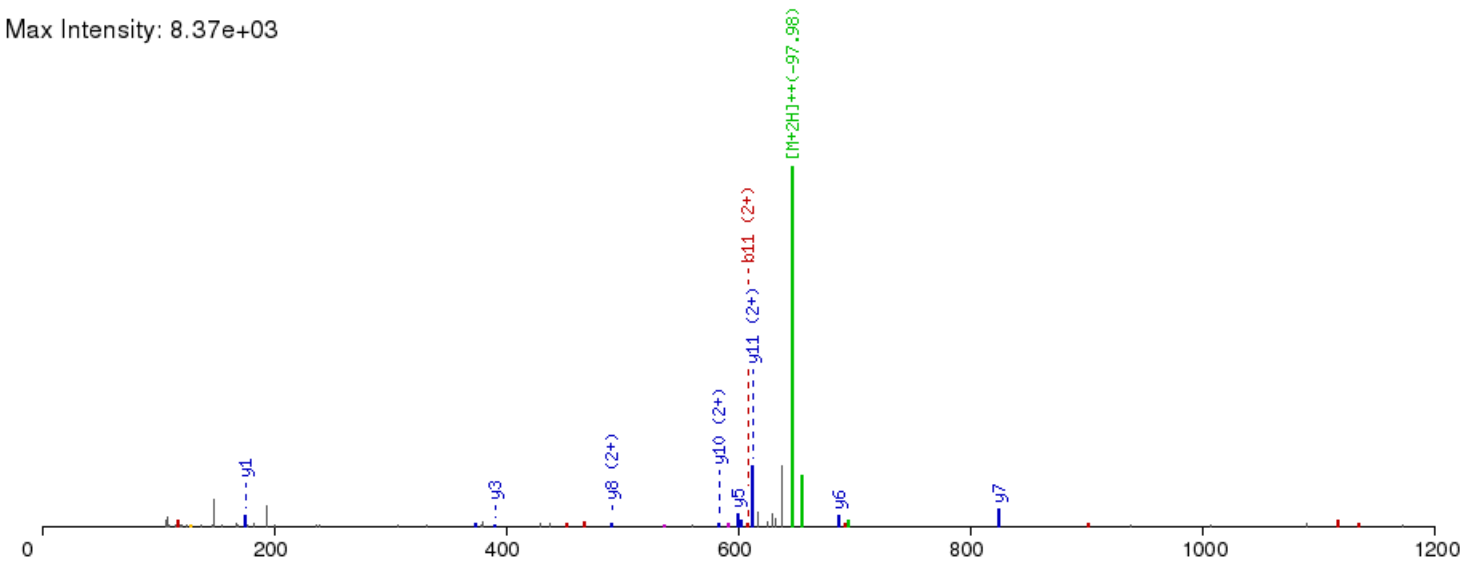
	R	L	S	S	F	V	T	K	
	1	2	3	4	5	6	7	8	
a		242.20							a
a (2+)		121.60							a (2+)
b		270.19	357.22	524.22	671.29	770.36	871.41		b
b-79.97				444.26	591.32	690.39	791.44		b-79.97
b-97.98				426.25	573.31	672.38	773.43		b-97.98
b (2+)		135.60	179.12	262.62	336.15	385.68	436.21		b (2+)
b-79.97 (2+)				222.63	296.17	345.70	396.22		b-79.97 (2+)
b-97.98 (2+)				213.63	287.16	336.70	387.22		b-97.98 (2+)
y		861.41	748.33	661.30	494.30	347.23	248.16	147.11	y
y-79.97		781.45	668.36	581.33					y-79.97
y-97.98		763.43	650.35	563.32					y-97.98
y (2+)		431.21	374.67	331.15	247.65	174.12	124.58	74.06	y (2+)
y-79.97 (2+)		391.23	334.68	291.17					y-79.97 (2+)
y-97.98 (2+)		382.22	325.68	282.16					y-97.98 (2+)
	R	L	S	S	F	V	T	K	
	8	7	6	5	4	3	2	1	

S(+79.97)GGQRHSPLSQR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 695.323, Calc. m/z: 695.327
Data File: Pepmix4_HCD.RAW.-1, Scans: 641 - 641

Max Intensity: 8.37e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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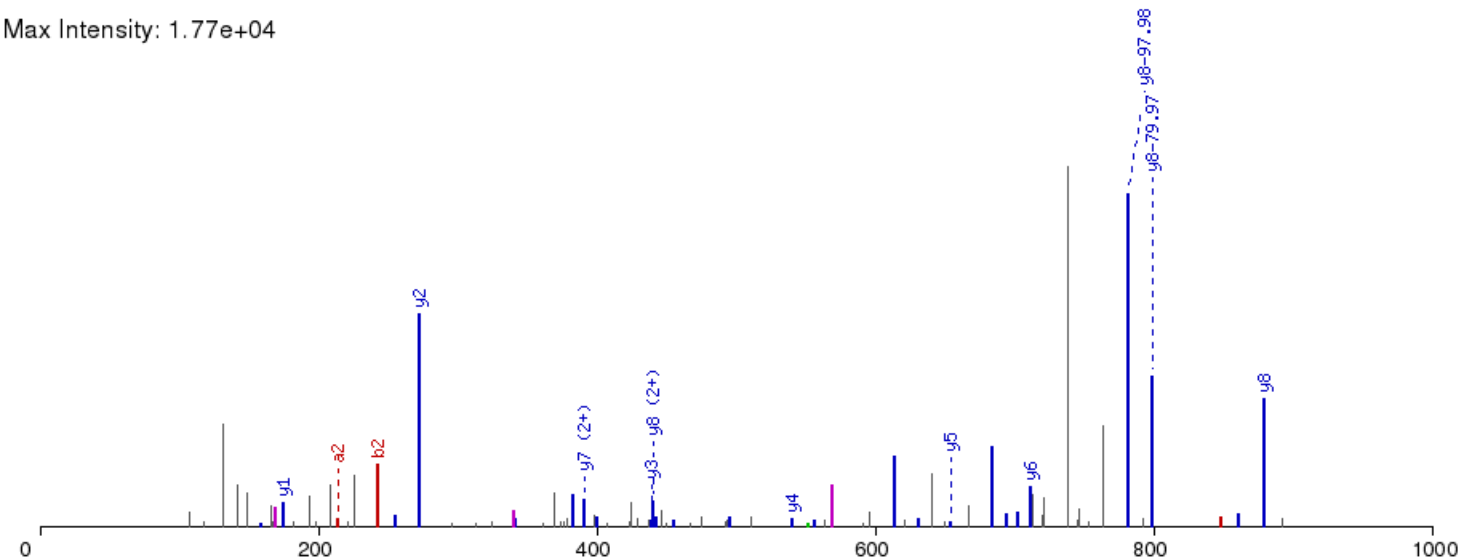
	S	G	G	Q	R	H	S	P	L	S	Q	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		197.03											a
a-79.97		117.07											a-79.97
a-97.98		99.06											a-97.98
b		225.03	282.05	410.11	566.21	703.27	790.30	887.35	1000.44	1087.47	1215.53		b
b-79.97		145.06	202.08	330.14	486.24	623.30	710.33	807.39	920.47	1007.50	1135.56		b-79.97
b-97.98		127.05	184.07	312.13	468.23	605.29	692.32	789.38	902.46	989.49	1117.55		b-97.98
b (2+)					283.61	352.14	395.65	444.18	500.72	544.24	608.27		b (2+)
b-79.97 (2+)					243.62	312.15	355.67	404.20	460.74	504.25	568.28		b-79.97 (2+)
b-97.98 (2+)					234.62	303.15	346.66	395.19	451.73	495.25	559.28		b-97.98 (2+)
y		1222.64	1165.62	1108.60	980.54	824.44	687.38	600.35	503.29	390.21	303.18	175.12	y
y (2+)		611.82	583.31	554.80	490.77	412.72	344.19	300.68	252.15	195.61	152.09	88.06	y (2+)
	S	G	G	Q	R	H	S	P	L	S	Q	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

IQPAGNTS(+79.97)PR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 560.767, Calc. m/z: 560.767
Data File: Pepmix2_HCD.RAW.-1, Scans: 755 - 755

Max Intensity: 1.77e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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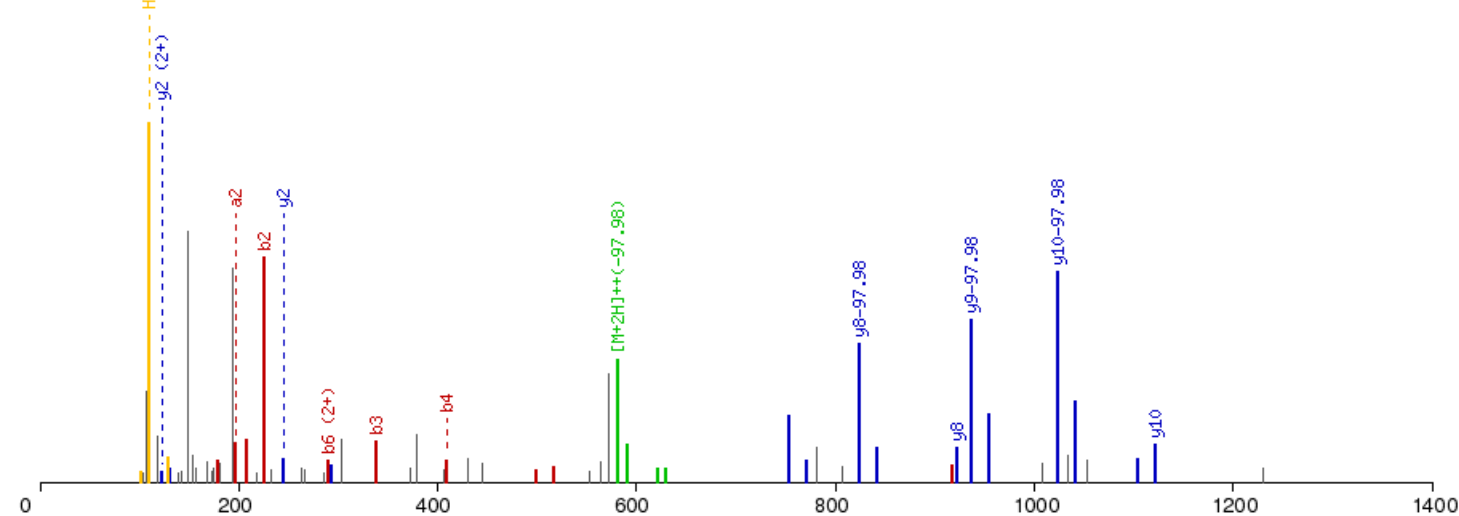
	I	Q	P	A	G	N	T	S	P	R	
	1	2	3	4	5	6	7	8	9	10	
a		214.16									a
b		242.15	339.20	410.24	467.26	581.30	682.35	849.35	946.40		b
b-79.97								769.38	866.44		b-79.97
b-97.98								751.37	848.43		b-97.98
y		1007.43	879.37	782.32	711.28	654.26	540.22	439.17	272.17	175.12	y
y-79.97		927.46	799.41	702.35	631.32	574.29	460.25	359.20			y-79.97
y-97.98		909.45	781.40	684.34	613.31	556.28	442.24	341.19			y-97.98
y (2+)		504.22	440.19	391.66	356.14	327.63	270.61	220.09	136.59	88.06	y (2+)
y-79.97 (2+)		464.24	400.21	351.68	316.16	287.65	230.63	180.11			y-79.97 (2+)
y-97.98 (2+)		455.23	391.20	342.67	307.16	278.65	221.62	171.10			y-97.98 (2+)
	I	Q	P	A	G	N	T	S	P	R	
	10	9	8	7	6	5	4	3	2	1	

HSIAGIIRS(+79.97)PK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 629.838, Calc. m/z: 629.842
Data File: Pepmix1_HCD.RAW.-1, Scans: 1249 - 1249

Max Intensity: 9.42e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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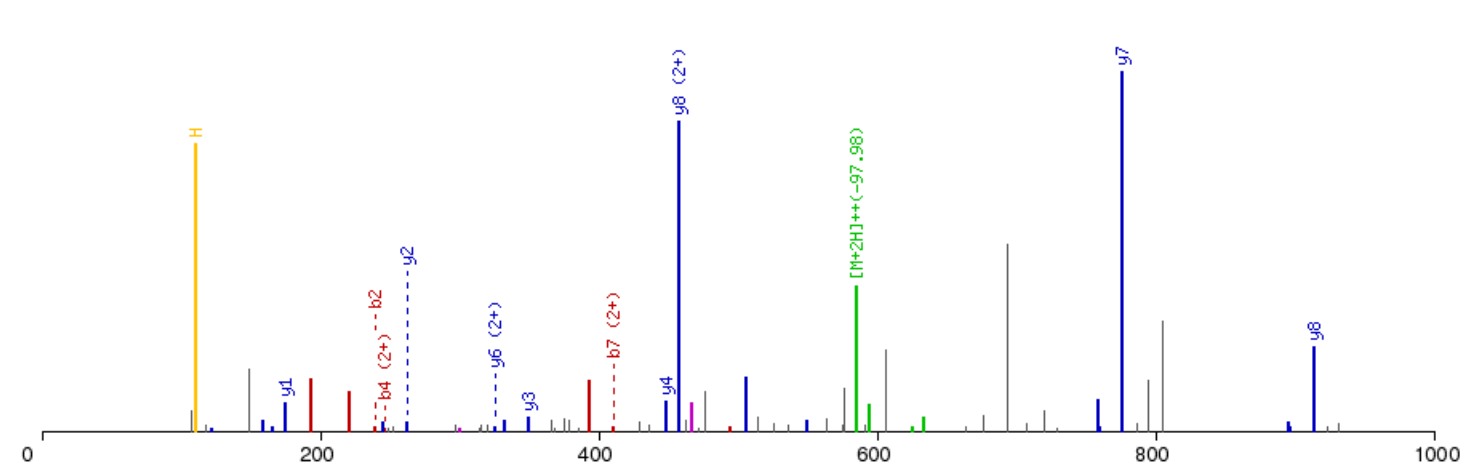
	H	S	I	A	G	I	I	R	S	P	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		197.10										a
a (2+)		99.06										a (2+)
b		225.10	338.18	409.22	466.24	579.32	692.41	848.51	1015.51	1112.56		b
b-79.97									935.54	1032.59		b-79.97
b-97.98									917.53	1014.58		b-97.98
b (2+)		113.05	169.59	205.11	233.62	290.17	346.71	424.76	508.26	556.78		b (2+)
b-79.97 (2+)									468.27	516.80		b-79.97 (2+)
b-97.98 (2+)									459.27	507.80		b-97.98 (2+)
y		1121.61	1034.58	921.49	850.45	793.43	680.35	567.27	411.16	244.17	147.11	y
y-79.97		1041.64	954.61	841.53	770.49	713.47	600.38	487.30	331.20			y-79.97
y-97.98		1023.63	936.60	823.51	752.48	695.46	582.37	469.29	313.19			y-97.98
y (2+)		561.31	517.79	461.25	425.73	397.22	340.68	284.14	206.09	122.59	74.06	y (2+)
y-79.97 (2+)		521.32	477.81	421.27	385.75	357.24	300.70	244.15	166.10			y-79.97 (2+)
y-97.98 (2+)		512.32	468.80	412.26	376.74	348.23	291.69	235.15	157.10			y-97.98 (2+)
	H	S	I	A	G	I	I	R	S	P	K	
	11	10	9	8	7	6	5	4	3	2	1	

AS(+79.97)DHQTVVSSR

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 633.778, Calc. m/z: 633.782
Data File: Pepmix2_HCD.RAW.-1, Scans: 1314 - 1314

Max Intensity: 3.82e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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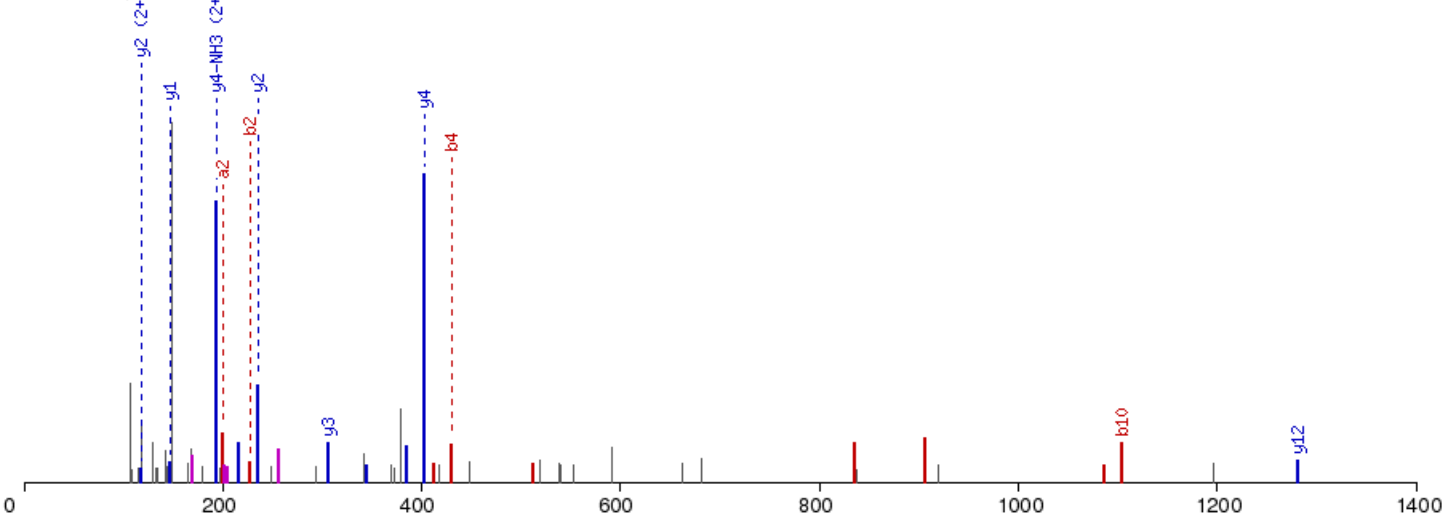
	A	S	D	H	Q	T	V	V	S	S	R	
	1	2	3	4	5	6	7	8	9	10	11	
a		211.05										a
a-79.97		131.08										a-79.97
a-97.98		113.07										a-97.98
b		239.04	354.07	491.13	619.19	720.23	819.30	918.37	1005.40	1092.44		b
b-79.97		159.08	274.10	411.16	539.22	640.27	739.34	838.41	925.44	1012.47		b-79.97
b-97.98		141.07	256.09	393.15	521.21	622.26	721.33	820.39	907.43	994.46		b-97.98
b (2+)				246.07	310.10	360.62	410.16	459.69	503.21	546.72		b (2+)
b-79.97 (2+)				206.08	270.11	320.64	370.17	419.71	463.22	506.74		b-79.97 (2+)
b-97.98 (2+)				197.08	261.11	311.63	361.17	410.70	454.22	497.73		b-97.98 (2+)
y		1195.51	1028.51	913.49	776.43	648.37	547.32	448.25	349.18	262.15	175.12	y
y-79.97		1115.54										y-79.97
y-97.98		1097.53										y-97.98
y (2+)		598.26	514.76	457.25	388.72	324.69	274.16	224.63	175.10	131.58	88.06	y (2+)
y-79.97 (2+)		558.28										y-79.97 (2+)
y-97.98 (2+)		549.27										y-97.98 (2+)
	A	S	D	H	Q	T	V	V	S	S	R	
	11	10	9	8	7	6	5	4	3	2	1	

ILSDVT(+79.97)HSAVFGVPASK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 904.456, Calc. m/z: 904.452
Data File: Pepmix1_HCD.RAW.-1, Scans: 1707 - 1707

Max Intensity: 6.81e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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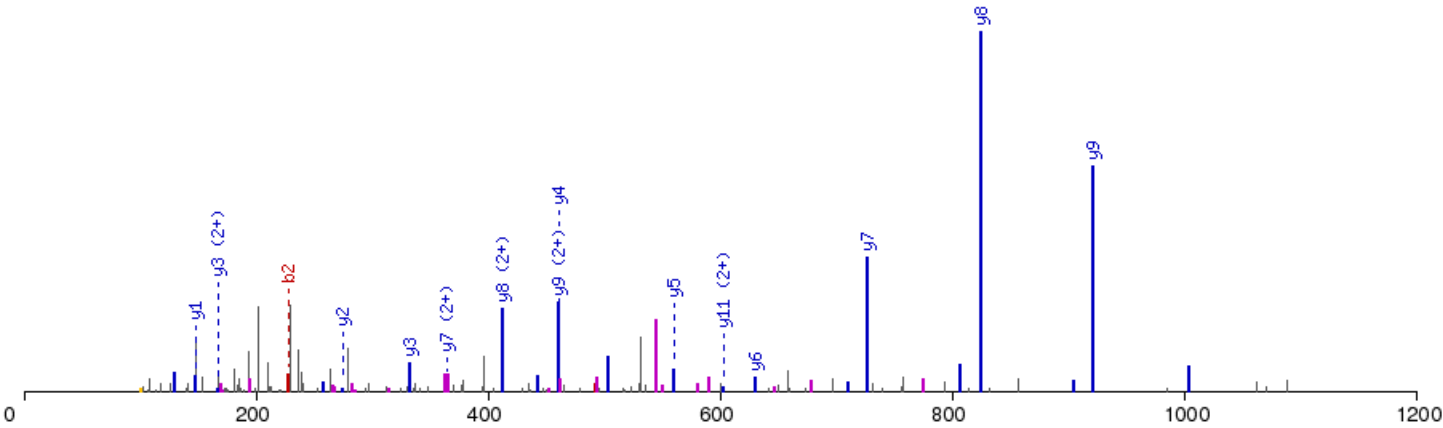
	I	L	S	D	V	T	H	S	A	V	F	G	V	P	A	S	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
a		199.18																a
b		227.18	314.21	429.23	528.30	709.32	846.38	933.41	1004.44	1103.51	1250.58	1307.60	1406.67	1503.72	1574.76	1661.79		b
b-79.97						629.35	766.41	853.44	924.48	1023.55	1170.62	1227.64	1326.71	1423.76	1494.80	1581.83		b-79.97
b-97.98						611.34	748.40	835.43	906.47	1005.54	1152.60	1209.63	1308.69	1405.75	1476.78	1563.82		b-97.98
b (2+)							423.69	467.21	502.73	552.26	625.79	654.31	703.84	752.37	787.88	831.40		b (2+)
b-79.97 (2+)							383.71	427.22	462.74	512.28	585.81	614.32	663.86	712.38	747.90	791.42		b-79.97 (2+)
b-97.98 (2+)							374.70	418.22	453.74	503.27	576.81	605.32	654.85	703.38	738.90	782.41		b-97.98 (2+)
y		1694.81	1581.73	1494.70	1379.67	1280.60	1099.59	962.53	875.50	804.46	705.39	558.32	501.30	402.23	305.18	234.14	147.11	y
y-79.97		1614.85	1501.76	1414.73	1299.71	1200.64												y-79.97
y-97.98		1596.84	1483.75	1396.72	1281.69	1182.63												y-97.98
y (2+)		847.91	791.37	747.85	690.34	640.81	550.30	481.77	438.25	402.73	353.20	279.67	251.16	201.62	153.09	117.58	74.06	y (2+)
y-79.97 (2+)		807.93	751.39	707.87	650.36	600.82												y-79.97 (2+)
y-97.98 (2+)		798.92	742.38	698.86	641.35	591.82												y-97.98 (2+)
	I	L	S	D	V	T	H	S	A	V	F	G	V	P	A	S	K	
	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

VQTT(+79.97)PPPAVQGQK

Identified in MSS769 1 x Phospho (ST)

Charge: 2, Exp. m/z: 716.349, Calc. m/z: 715.857
Data File: Pepmix1_HCD.RAW.-1, Scans: 977 - 977

Max Intensity: 2.02e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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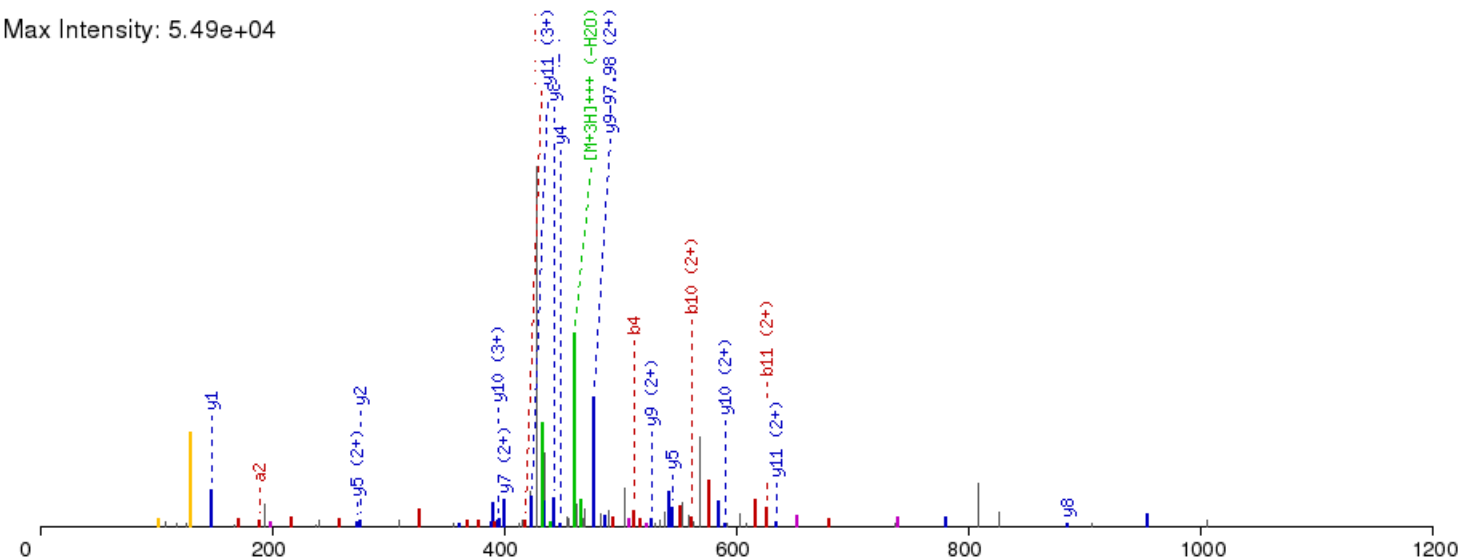
	V	Q	T	T	P	P	P	A	V	Q	G	Q	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	
a		200.14												a
b		228.13	329.18	510.20	607.25	704.30	801.35	872.39	971.46	1099.52	1156.54	1284.60		b
b-79.97				430.23	527.28	624.34	721.39	792.43	891.49	1019.55	1076.57	1204.63		b-79.97
b-97.98				412.22	509.27	606.32	703.38	774.41	873.48	1001.54	1058.56	1186.62		b-97.98
y		1331.64	1203.58	1102.53	921.52	824.46	727.41	630.36	559.32	460.25	332.19	275.17	147.11	y
y-79.97		1251.67	1123.61	1022.56										y-79.97
y-97.98		1233.66	1105.60	1004.55										y-97.98
y (2+)		666.32	602.29	551.77	461.26	412.73	364.21	315.68	280.16	230.63	166.60	138.09	74.06	y (2+)
y-79.97 (2+)		626.34	562.31	511.79										y-79.97 (2+)
y-97.98 (2+)		617.33	553.30	502.78										y-97.98 (2+)
	V	Q	T	T	P	P	P	A	V	Q	G	Q	K	
	13	12	11	10	9	8	7	6	5	4	3	2	1	

ESKS(+79.97)SPRPTAEK

Identified in MSS769 1 x Phospho (ST)

Charge: 3, Exp. m/z: 466.220, Calc. m/z: 466.224
Data File: Pepmix3_HCD.RAW.-1, Scans: 503 - 503

Max Intensity: 5.49e+04



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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	E	S	K	S	S	P	R	P	T	A	E	K	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		189.09											a
b		217.08	345.18	512.18	599.21	696.26	852.36	949.41	1050.46	1121.50	1250.54		b
b-79.97				432.21	519.24	616.29	772.39	869.45	970.50	1041.53	1170.57		b-79.97
b-97.98				414.20	501.23	598.28	754.38	851.44	952.48	1023.52	1152.56		b-97.98
b (2+)			173.09	256.59	300.11	348.63	426.68	475.21	525.73	561.25	625.77		b (2+)
b-79.97 (2+)				216.61	260.12	308.65	386.70	435.23	485.75	521.27	585.79		b-79.97 (2+)
b-97.98 (2+)				207.60	251.12	299.65	377.70	426.22	476.75	512.26	576.79		b-97.98 (2+)
b (3+)							284.79	317.14	350.83	374.50	417.52		b (3+)
b-79.97 (3+)							258.14	290.49	324.17	347.85	390.86		b-79.97 (3+)
b-97.98 (3+)							252.13	284.48	318.17	341.85	384.86		b-97.98 (3+)
y		1267.60	1180.57	1052.48	885.48	798.45	701.39	545.29	448.24	347.19	276.16	147.11	y
y-79.97		1187.64	1100.61	972.51									y-79.97
y-97.98		1169.63	1082.60	954.50									y-97.98
y (2+)		634.31	590.79	526.74	443.24	399.73	351.20	273.15	224.62	174.10	138.58	74.06	y (2+)
y-79.97 (2+)		594.32	550.81	486.76									y-79.97 (2+)
y-97.98 (2+)		585.32	541.80	477.75									y-97.98 (2+)
y (3+)		423.21	394.20	351.50	295.83	266.82	234.47						y (3+)
y-79.97 (3+)		396.55	367.54	324.84									y-79.97 (3+)
y-97.98 (3+)		390.55	361.54	318.84									y-97.98 (3+)
	E	S	K	S	S	P	R	P	T	A	E	K	
	12	11	10	9	8	7	6	5	4	3	2	1	

