

Supplemental Figure 3. Spectra of proteins from CIITA and CIITA/i⁻ siRNA cells identified by a single peptide.

TGHMGKLVPLKETIKGF

X-range:
 -

MassTol: **Y-zoom:**

MassType:
 AVG MONO

Axis:
 1 2

Label:
 I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

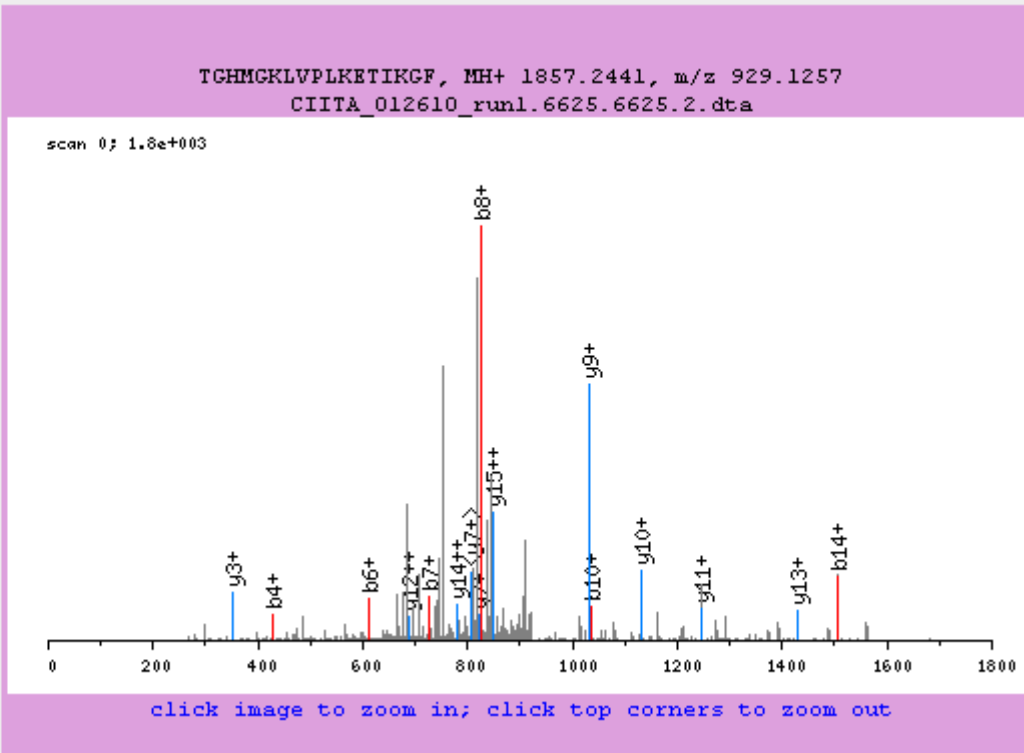
x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

hide H₂O/NH₃

zoom 112-122



b ⁺	#	AA	#	y ⁺	y ²⁺
102.1118	1	T	17		
159.1631	2	G	16	1756.1402	878.5741
296.3024	3	H	15	1699.0889	850.0484
427.4985	4	M	14	1561.9496	781.4788
484.5498	5	G	13	1430.7536	715.8808
612.7221	6	K	12	1373.7023	687.3551
725.8797	7	L	11	1245.5300	623.2690
825.0108	8	V	10	1132.3723	566.6901
922.1260	9	P	9	1033.2413	517.1246
1035.2836	10	L	8	936.1261	468.5670
1163.4559	11	K	7	822.9685	411.9882
1292.5699	12	E	6	694.7962	347.9021
1393.6737	13	T	5	565.6822	283.3451
1506.8314	14	I	4	464.5783	232.7931
1635.0037	15	K	3	351.4207	176.2143
1692.0550	16	G	2	223.2484	112.1282
	17	F	1	166.1971	83.6025

YVRPLPPAAIESPAVAAPAYSRA

X-range:

0 - 0

MassTol: Y-zoom:

0.950 1.00

MassType:

AVG MONO

Axis:

1 2

Label:

I H -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

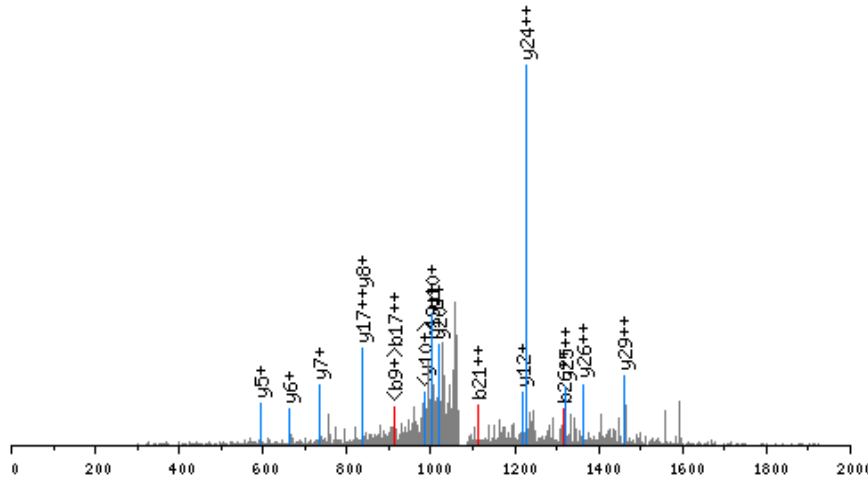
hide H₂O/NH₃

zoom 112-122

GO

WLGSSWPQYVRPLPPAAIESPAVAAPAYSRA, MH+ 3225.6316, m/z 1075.8820
CIITA_122309_run1.7600.7600.3.dta

scan 0; 7.8e+02



click image to zoom in; click top corners to zoom out

b ⁺	b ²⁺	#	AA	#	y ⁺	y ²⁺	y ³⁺
187.2178	94.1129	1	W	31			
300.3755	150.6917	2	L	30	3039.4217	1520.2148	1013.8125
357.4268	179.2174	3	G	29	2926.2640	1463.6360	976.0933
414.4781	207.7430	4	G	28	2869.2127	1435.1103	957.0762
501.5554	251.2817	5	S	27	2812.1614	1406.5847	938.0591
588.6327	294.8203	6	S	26	2725.0841	1363.0460	909.0333
774.8426	387.9253	7	W	25	2638.0068	1319.5074	880.0076
871.9578	436.4829	8	P	24	2451.7969	1226.4024	817.9376
929.0091	465.0085	9	G	23	2354.6817	1177.8448	785.5659
1092.1824	546.5952	10	Y	22	2297.6304	1149.3192	766.5488
1191.3134	596.1607	11	V	21	2134.4571	1067.7325	712.1577
1347.4991	674.2535	12	R	20	2035.3261	1018.1670	679.1140
1444.6143	722.8111	13	P	19	1879.1404	940.0742	627.0521
1557.7719	779.3899	14	L	18	1782.0252	891.5166	594.6804
1654.8871	827.9475	15	P	17	1668.8676	834.9378	556.9611
1752.0023	876.5051	16	P	16	1571.7524	786.3802	524.5894
1823.0802	912.0441	17	R	15	1474.6372	737.8226	492.2177
1894.1581	947.5830	18	R	14	1403.5593	702.2836	468.5251
2007.3157	1004.1618	19	I	13	1332.4814	666.7447	444.8324
2136.4297	1068.7188	20	E	12	1219.3238	610.1659	407.1132
2223.5070	1112.2575	21	S	11	1090.2098	545.6089	364.0752
2320.6222	1160.8151	22	P	10	1003.1325	502.0702	335.0495
2391.7001	1196.3540	23	R	9	906.0173	453.5126	302.6777
2490.8312	1245.9195	24	V	8	834.9394	417.9737	278.9851
2561.9091	1281.4585	25	R	7	735.8083	368.4081	245.9414
2632.9870	1316.9974	26	R	6	664.7304	332.8692	222.2488
2730.1021	1365.5550	27	P	5	593.6525	297.3302	198.5561
2801.1800	1401.0940	28	R	4	496.5374	248.7727	166.1844
2964.3533	1482.6806	29	Y	3	425.4595	213.2337	142.4918
3051.4306	1526.2193	30	S	2	262.2862	131.6471	88.1007
		31	R	1	175.2089	88.1084	59.0749

LKVTKAAGTKKQFQKF

X-range:
 -

MassTol: **Y-zoom:**

MassType:
 AVG MONO

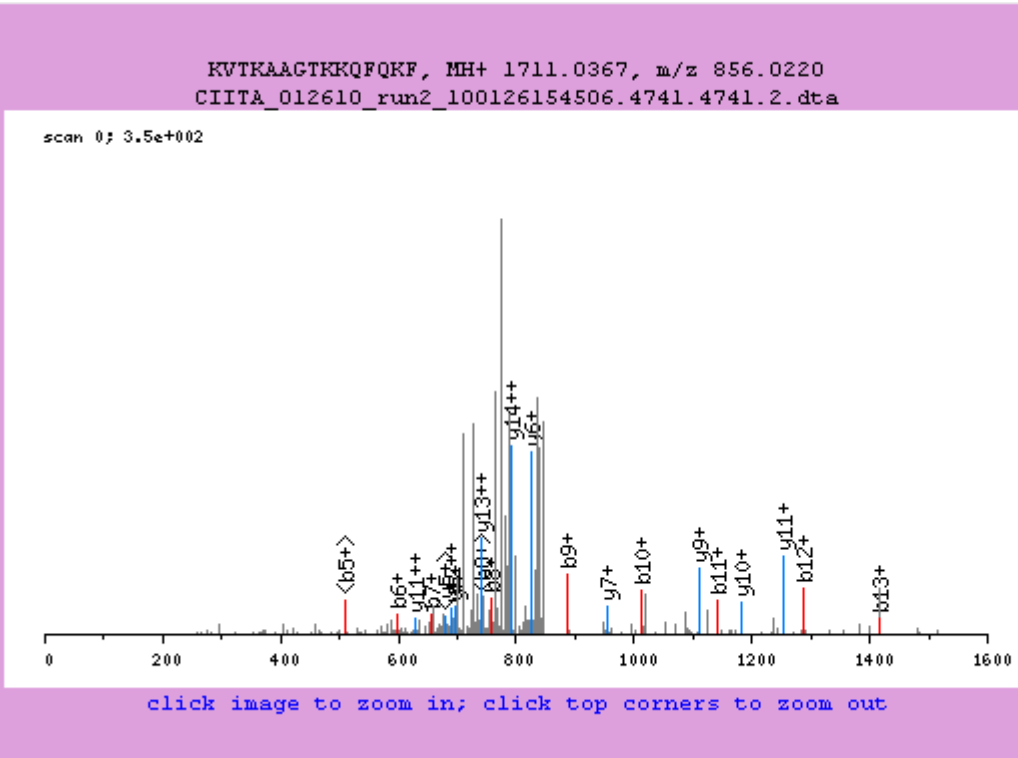
Axis:
 1 2

Label:
 I M -

Ions:
 a + 2+ 3+
 b + 2+ 3+
 c + 2+ 3+
 x + 2+ 3+
 y + 2+ 3+
 z + 2+ 3+

hide H₂O/NH₃

zoom 112-122



b ⁺	#	AA	#	y ⁺	y ²⁺
129.1802	1	K	15		
228.3113	2	V	14	1582.8644	791.9362
329.4152	3	T	13	1483.7334	742.3707
457.5874	4	K	12	1382.6295	691.8187
528.6653	5	A	11	1254.4572	627.7326
599.7432	6	A	10	1183.3793	592.1936
656.7946	7	G	9	1112.3014	556.6547
757.8984	8	T	8	1055.2501	528.1290
886.0707	9	K	7	954.1462	477.5771
1014.2430	10	K	6	825.9739	413.4909
1142.3722	11	Q	5	697.8017	349.4048
1289.5461	12	F	4	569.6724	285.3402
1417.6753	13	Q	3	422.4986	211.7533
1545.8476	14	K	2	294.3694	147.6886
	15	F	1	166.1971	83.6025

LRDSHGVAQVRF

X-range:
 -

MassTol: **Y-zoom:**

MassType:
 AVG MONO

Axis:
 1 2

Label:
 I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

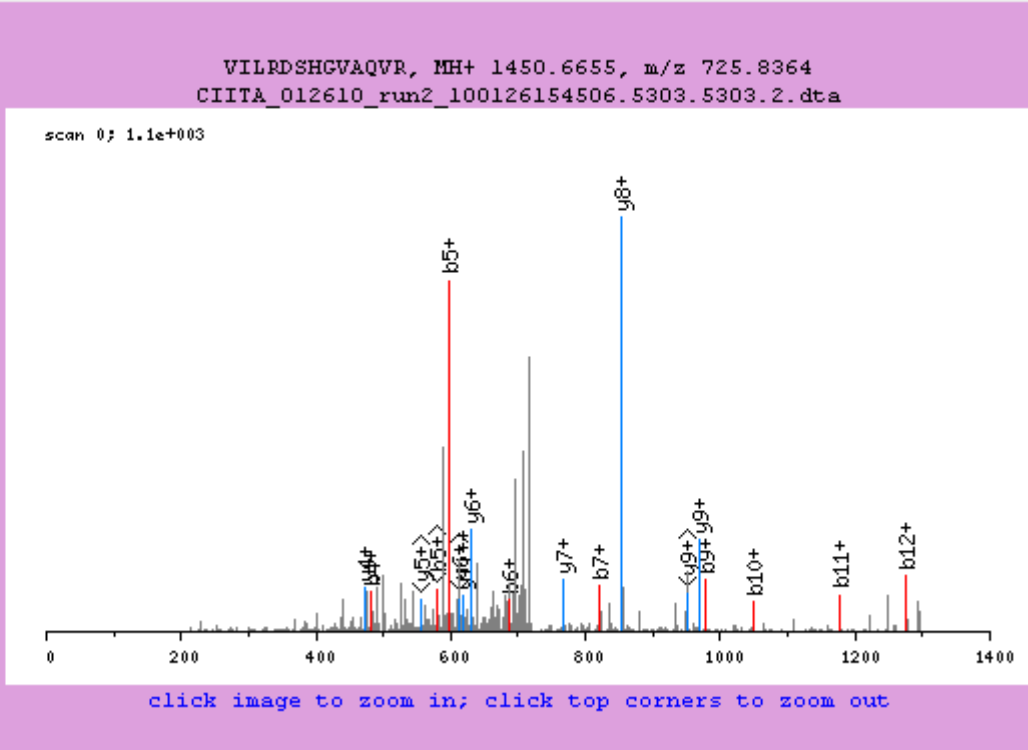
x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

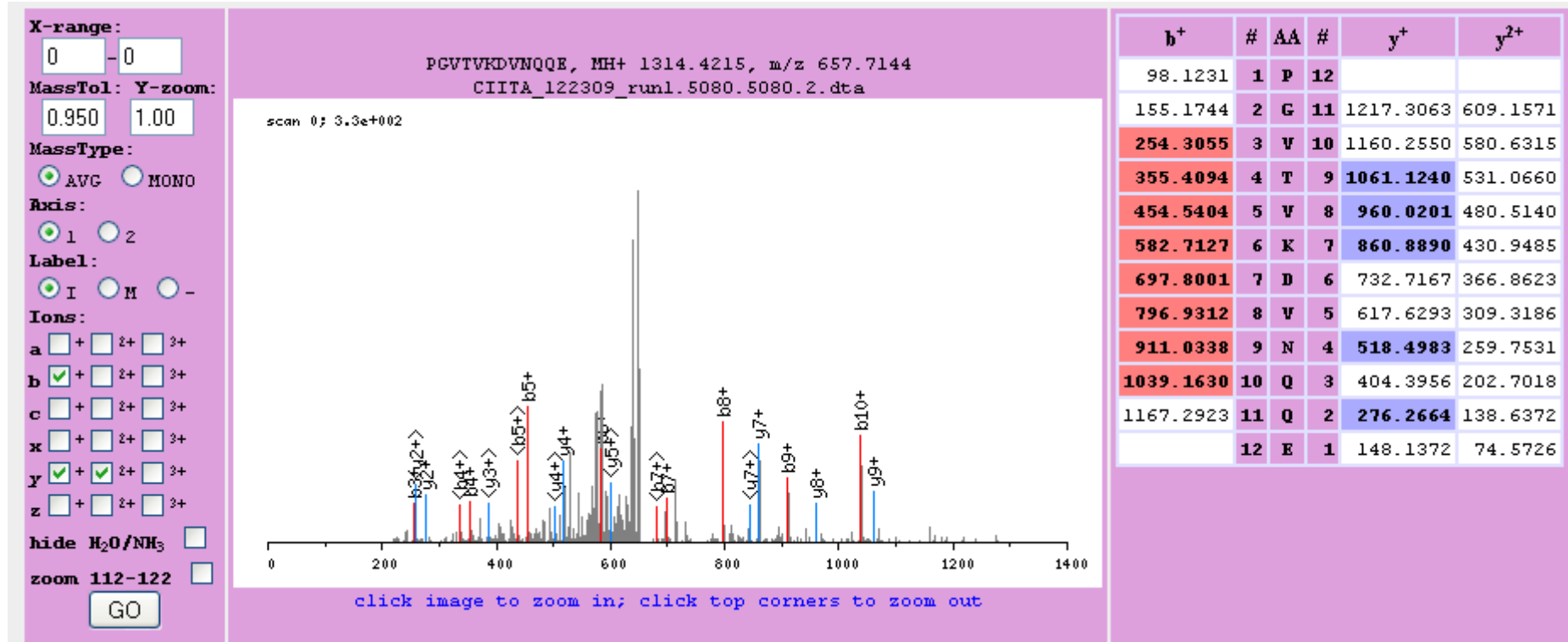
hide H₂O/NH₃

zoom 112-122



b ⁺	#	AA	#	y ⁺	y ²⁺
100.1390	1	V	13		
213.2966	2	I	12	1351.5344	676.2712
326.4543	3	L	11	1238.3768	619.6924
482.6400	4	R	10	1125.2191	563.1135
597.7274	5	D	9	969.0334	485.0207
684.8047	6	S	8	853.9460	427.4770
821.9439	7	H	7	766.8687	383.9383
878.9953	8	G	6	629.7295	315.3687
978.1263	9	V	5	572.6781	286.8430
1049.2042	10	R	4	473.5471	237.2775
1177.3334	11	Q	3	402.4692	201.7386
1276.4645	12	V	2	274.3400	137.6740
	13	R	1	175.2089	88.1084

MPGVTVKDVENQEF



FTKSPYQEFTDHLVKTHTRV

X-range:

0 - 0

MassTol: Y-zoom:

0.950 1.00

MassType:

AVG MONO

Axis:

1 2

Label:

I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

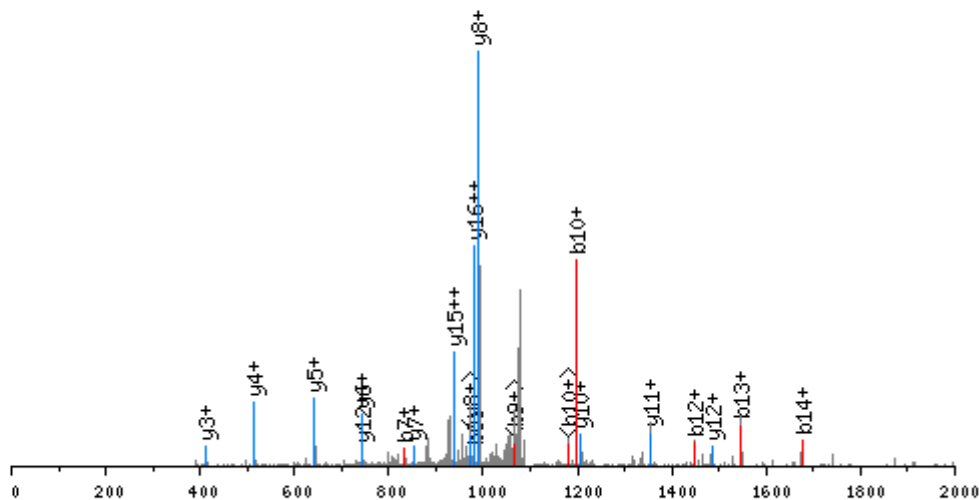
hide H₂O/NH₃

zoom 112-122

GO

TKSPYQEFTDHLVKTHTR, MH+ 2189.4064, m/z 1095.2069
CIITA_012610_run1.6578.6580.2.dta

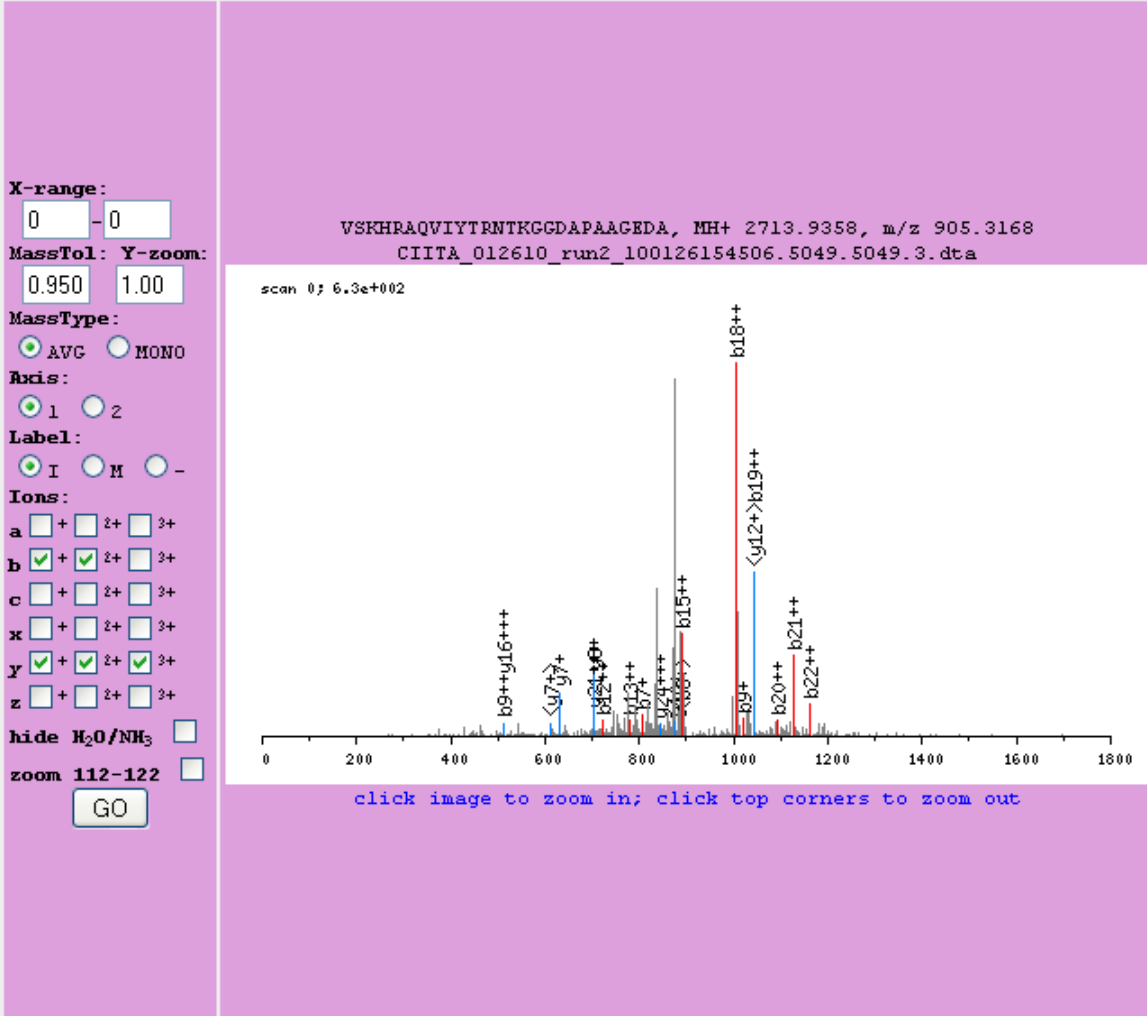
scan 0; 2.8e+003



click image to zoom in; click top corners to zoom out

b ⁺	#	AA	#	y ⁺	y ²⁺
102.1118	1	T	18		
230.2841	2	K	17	2088.3026	1044.6552
317.3614	3	S	16	1960.1303	980.5691
414.4766	4	P	15	1873.0530	937.0305
577.6498	5	Y	14	1775.9378	888.4729
705.7791	6	Q	13	1612.7645	806.8862
834.8930	7	E	12	1484.6353	742.8216
982.0669	8	F	11	1355.5213	678.2646
1083.1708	9	T	10	1208.3475	604.6777
1198.2582	10	D	9	1107.2436	554.1258
1335.3975	11	H	8	992.1562	496.5821
1448.5551	12	L	7	855.0169	428.0124
1547.6862	13	V	6	741.8593	371.4336
1675.8584	14	K	5	642.7282	321.8681
1776.9623	15	T	4	514.5559	257.7819
1914.1016	16	H	3	413.4521	207.2300
2015.2055	17	T	2	276.3128	138.6604
	18	R	1	175.2089	88.1084

LVSKHRAQVIYTRNTKGGDAPAAGEDA



b ⁺	b ²⁺	#	AA	#	y ⁺	y ²⁺	y ³⁺
100.1390	50.5735	1	V	26			
187.2163	94.1121	2	S	25	2614.8047	1307.9063	872.2735
315.3886	158.1983	3	K	24	2527.7274	1264.3677	843.2478
452.5279	226.7679	4	H	23	2399.5551	1200.2815	800.5237
608.7135	304.8607	5	R	22	2262.4159	1131.7119	754.8106
679.7914	340.3997	6	R	21	2106.2302	1053.6191	702.7487
807.9207	404.4643	7	Q	20	2035.1523	1018.0801	679.0561
907.0517	454.0298	8	V	19	1907.0231	954.0155	636.3463
1020.2094	510.6087	9	I	18	1807.8920	904.4500	603.3026
1183.3826	592.1953	10	Y	17	1694.7344	847.8712	565.5834
1284.4865	642.7472	11	T	16	1531.5611	766.2845	511.1923
1440.6722	720.8401	12	R	15	1430.4572	715.7326	477.4910
1554.7748	777.8914	13	N	14	1274.2715	637.6397	425.4291
1655.8787	828.4433	14	T	13	1160.1689	580.5884	387.3949
1784.0510	892.5295	15	K	12	1059.0650	530.0365	353.6936
1841.1023	921.0551	16	G	11	930.8927	465.9503	310.9695
1898.1536	949.5808	17	G	10	873.8414	437.4247	291.9524
2013.2410	1007.1245	18	D	9	816.7901	408.8990	272.9353
2084.3189	1042.6634	19	R	8	701.7027	351.3553	234.5729
2181.4341	1091.2210	20	P	7	630.6248	315.8164	210.8802
2252.5120	1126.7600	21	R	6	533.5096	267.2588	178.5085
2323.5899	1162.2989	22	R	5	462.4317	231.7198	154.8159
2380.6412	1190.8246	23	G	4	391.3538	196.1809	131.1232
2509.7552	1255.3816	24	E	3	334.3025	167.6552	112.1061
2624.8426	1312.9253	25	D	2	205.1885	103.0982	69.0681
		26	R	1	90.1011	45.5545	30.7057

AIINSGPREDSTRI

X-range:
 -

MassTol: **Y-zoom:**

MassType:
 AVG MONO

Axis:
 1 2

Label:
 I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

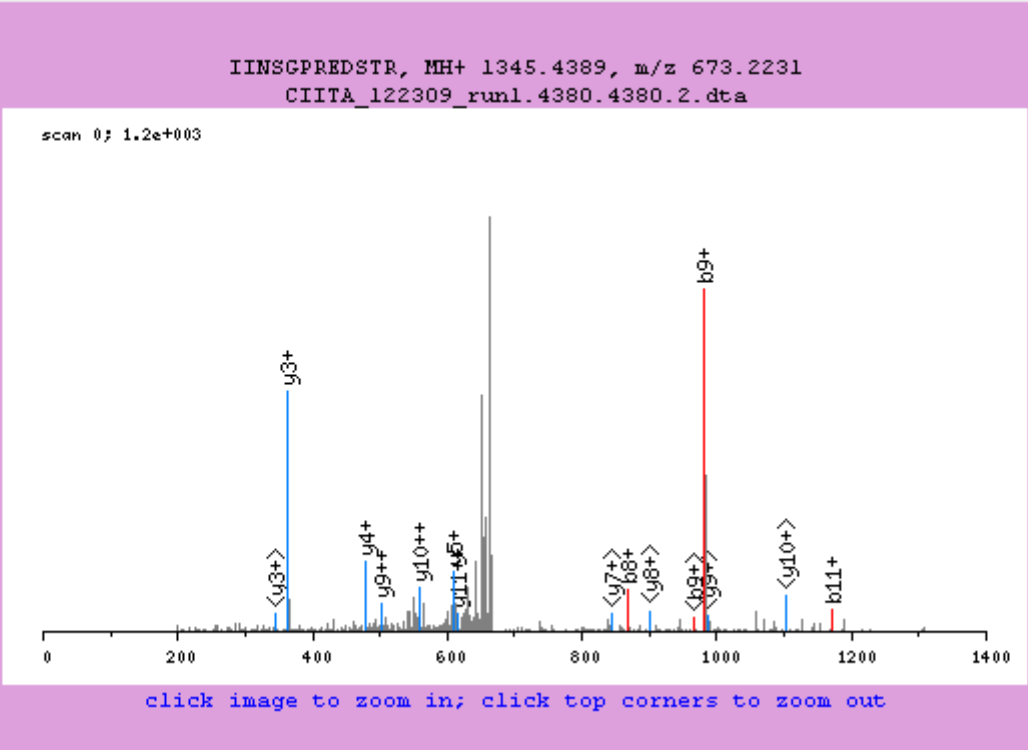
x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

hide H₂O/NH₃

zoom 112-122



b ⁺	#	AA	#	y ⁺	y ²⁺
114.1656	1	I	12		
227.3232	2	I	11	1232.2812	616.6446
341.4259	3	N	10	1119.1236	560.0658
428.5032	4	S	9	1005.0209	503.0144
485.5545	5	G	8	917.9436	459.4758
582.6697	6	P	7	860.8923	430.9501
738.8553	7	R	6	763.7771	382.3925
867.9693	8	E	5	607.5915	304.2997
983.0567	9	D	4	478.4775	239.7427
1070.1340	10	S	3	363.3901	182.1990
1171.2379	11	T	2	276.3128	138.6604
	12	R	1	175.2089	88.1084

KVAPAPAVVKKQEAKK

X-range: -

MassTol: **Y-zoom:**

MassType:
 AVG MONO

Axis:
 1 2

Label:
 I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

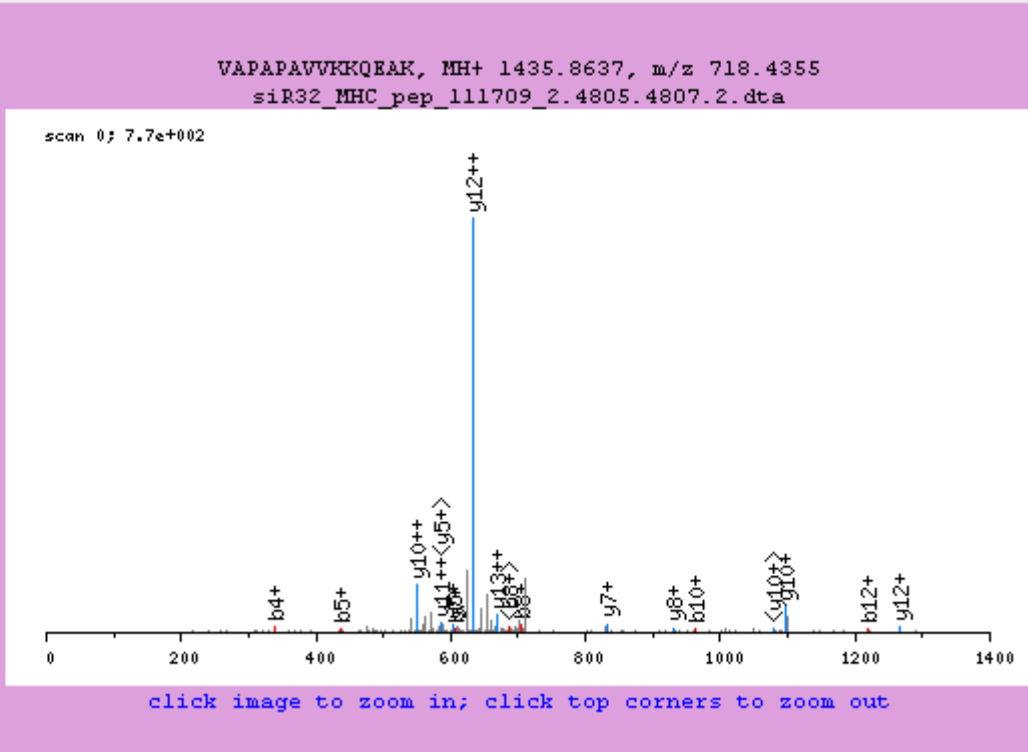
x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

hide H₂O/NH₃

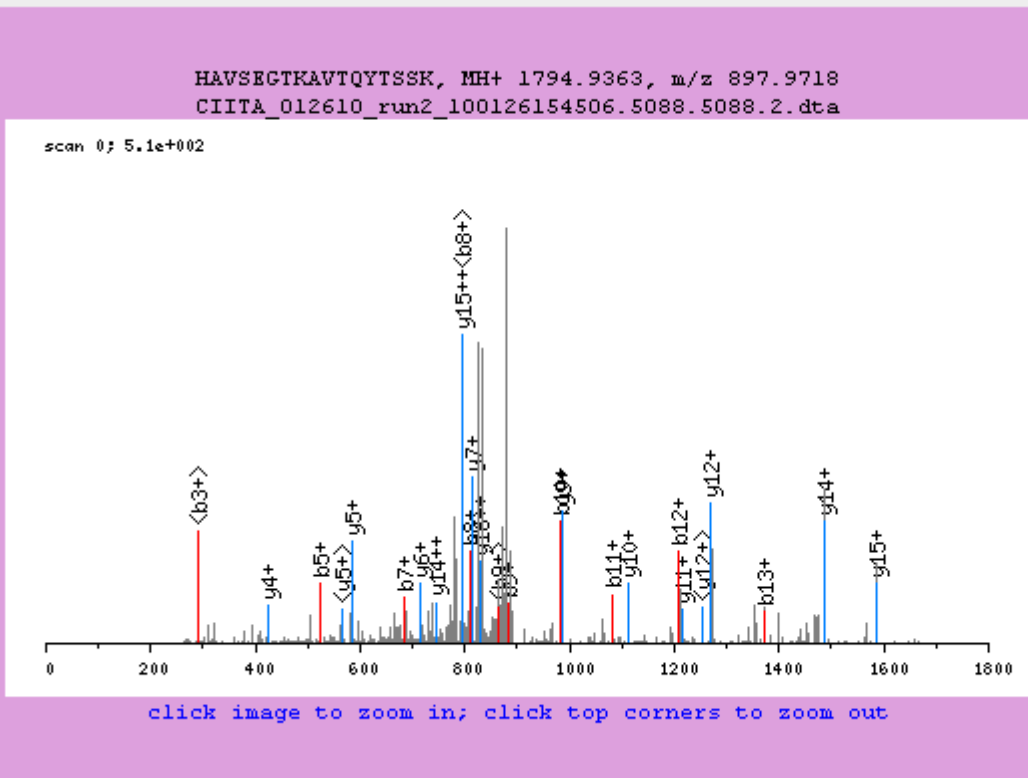
zoom



b ⁺	#	AA	#	y ⁺	y ²⁺
100.0762	1	V	14		
171.1134	2	R	13	1336.7953	668.9015
268.1661	3	P	12	1265.7581	633.3830
339.2032	4	R	11	1168.7054	584.8566
436.2560	5	P	10	1097.6683	549.3380
507.2931	6	R	9	1000.6155	500.8117
606.3615	7	V	8	929.5784	465.2931
705.4299	8	V	7	830.5100	415.7589
833.5249	9	K	6	731.4416	366.2247
961.6199	10	K	5	603.3466	302.1772
1089.6784	11	Q	4	475.2516	238.1297
1218.7210	12	E	3	347.1931	174.1004
1289.7581	13	R	2	218.1505	109.5791
	14	K	1	147.1134	74.0606

KHAVSEGTKAVTQYTSSKI

X-range:
 -
MassTol: **Y-zoom:**
MassType:
 AVG MONO
Axis:
 1 2
Label:
 I M -
Ions:
a + 2+ 3+
b + 2+ 3+
c + 2+ 3+
x + 2+ 3+
Y + 2+ 3+
z + 2+ 3+
 hide H₂O/NH₃
zoom 112-122



b ⁺	#	AA	#	y ⁺	y ²⁺
138.1472	1	H	17		
209.2251	2	R	16	1657.7970	829.4025
308.3562	3	V	15	1586.7191	793.8635
395.4335	4	S	14	1487.5881	744.2980
524.5475	5	E	13	1400.5108	700.7594
581.5988	6	G	12	1271.3968	636.2024
682.7027	7	T	11	1214.3455	607.6767
810.8749	8	K	10	1113.2416	557.1248
881.9528	9	R	9	985.0693	493.0386
981.0839	10	V	8	913.9914	457.4997
1082.1878	11	T	7	814.8603	407.9341
1210.3170	12	Q	6	713.7565	357.3822
1373.4903	13	Y	5	585.6272	293.3176
1474.5941	14	T	4	422.4540	211.7310
1561.6714	15	S	3	321.3501	161.1790
1648.7487	16	S	2	234.2728	117.6404
	17	K	1	147.1955	74.1017

LRQKAEADKNDKAVKDLV

X-range:
 -

MassTol: **Y-zoom:**

MassType:
 AVG MONO

Axis:
 1 2

Label:
 I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

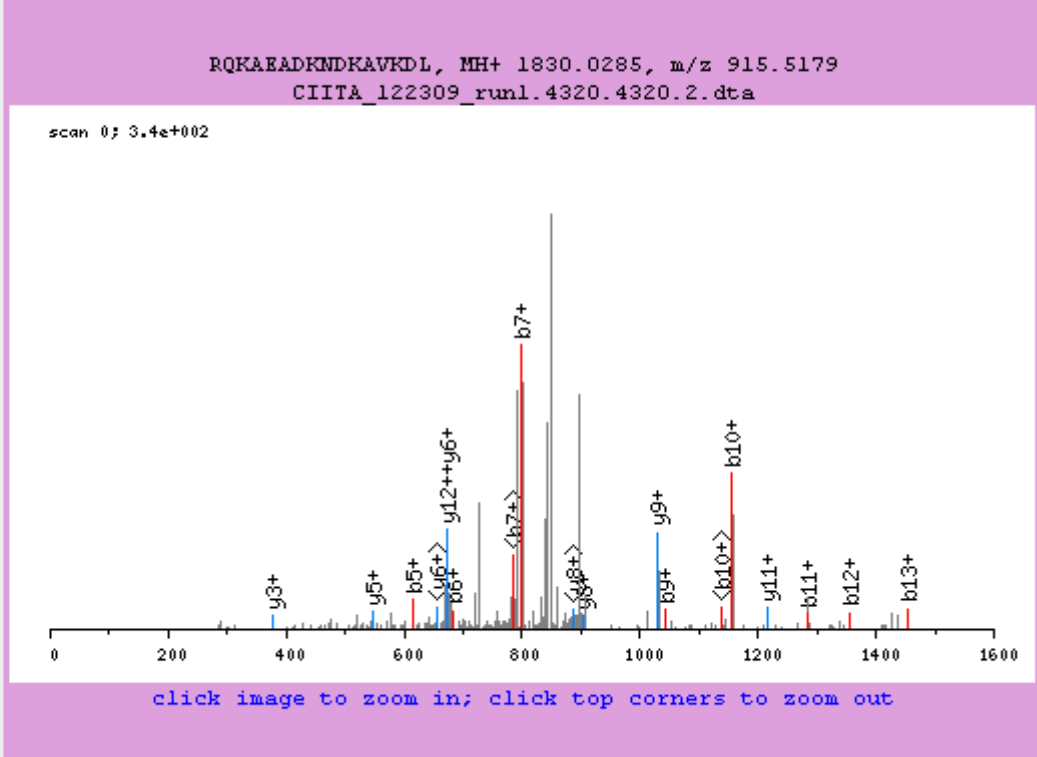
x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

hide H₂O/NH₃

zoom 112-122



b ⁺	#	AA	#	y ⁺	y ²⁺
157.1936	1	R	16		
285.3228	2	Q	15	1673.8428	837.4254
413.4951	3	K	14	1545.7136	773.3607
484.5730	4	R	13	1417.5413	709.2746
613.6870	5	E	12	1346.4634	673.7357
684.7649	6	R	11	1217.3494	609.1787
799.8523	7	D	10	1146.2715	573.6397
928.0246	8	K	9	1031.1841	516.0960
1042.1272	9	N	8	903.0118	452.0099
1157.2146	10	D	7	788.9092	394.9586
1285.3869	11	K	6	673.8218	337.4149
1356.4648	12	R	5	545.6495	273.3287
1455.5959	13	V	4	474.5716	237.7898
1583.7681	14	K	3	375.4405	188.2242
1698.8555	15	D	2	247.2683	124.1381
	16	L	1	132.1809	66.5944

NWDDMEKIWHHTFY

X-range:
 -

MassTol: Y-zoom:

MassType:
 AVG MONO

Axis:
 1 2

Label:
 I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

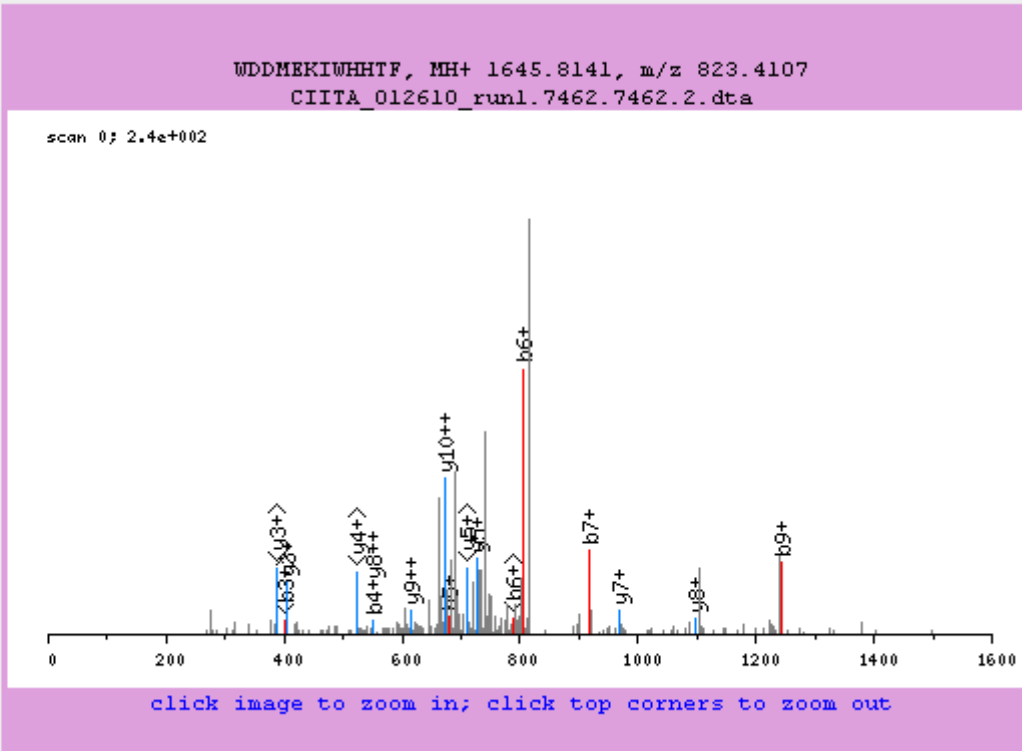
x + 2+ 3+

Y + 2+ 3+

z + 2+ 3+

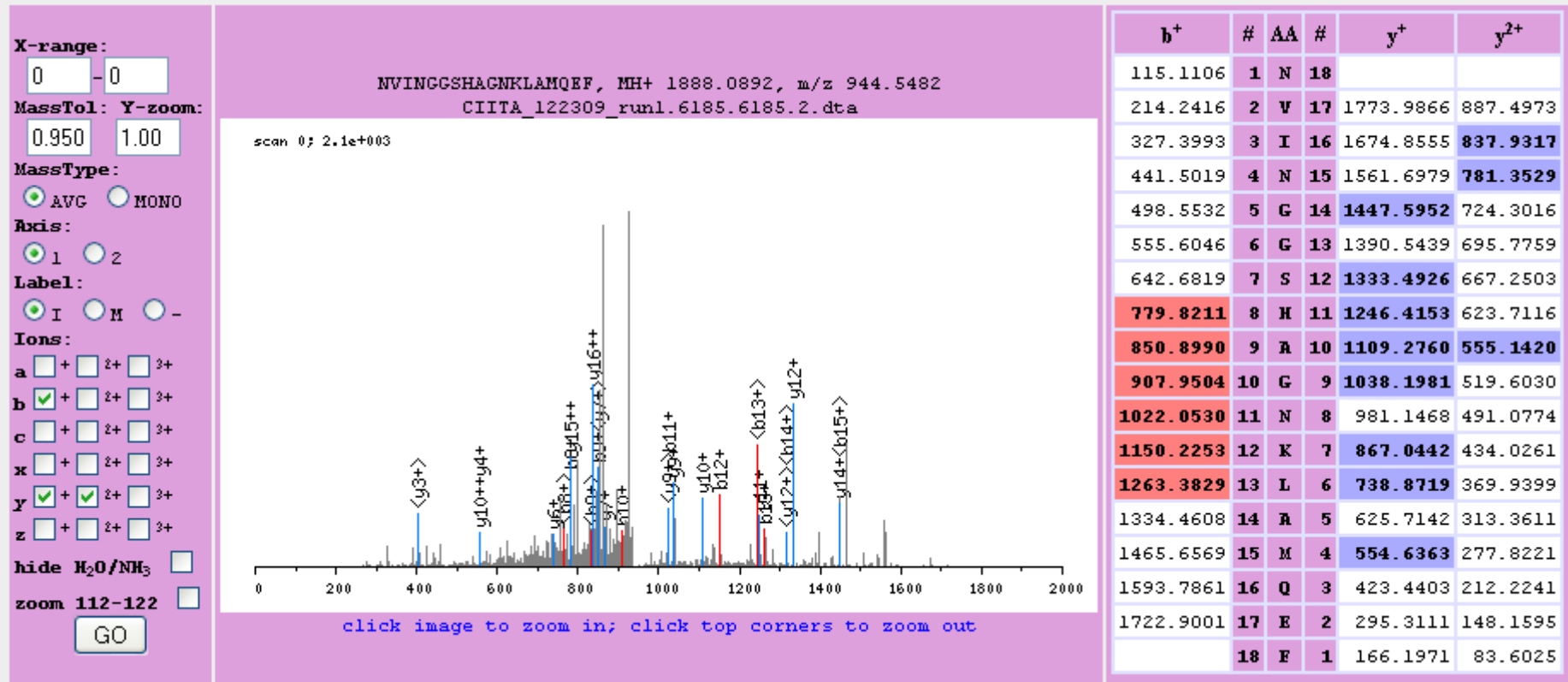
hide H₂O/NH₃

zoom 112-122



b ⁺	#	AA	#	y ⁺	y ²⁺
187.2178	1	W	12		
302.3052	2	D	11	1459.6042	730.3061
417.3926	3	D	10	1344.5168	672.7624
548.5887	4	M	9	1229.4294	615.2187
677.7027	5	E	8	1098.2333	549.6206
805.8750	6	K	7	969.1193	485.0636
919.0326	7	I	6	840.9471	420.9775
1105.2425	8	W	5	727.7894	364.3987
1242.3818	9	H	4	541.5795	271.2937
1379.5211	10	H	3	404.4402	202.7241
1480.6249	11	T	2	267.3010	134.1545
	12	F	1	166.1971	83.6025

FNVINGGSHAGNKLAMQEFM



EFKANAECTSGSNVKIVKVKKE

X-range:

0 - 0

MassTol: Y-zoom:

0.950 1.00

MassType:

AVG MONO

Axis:

1 2

Label:

I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

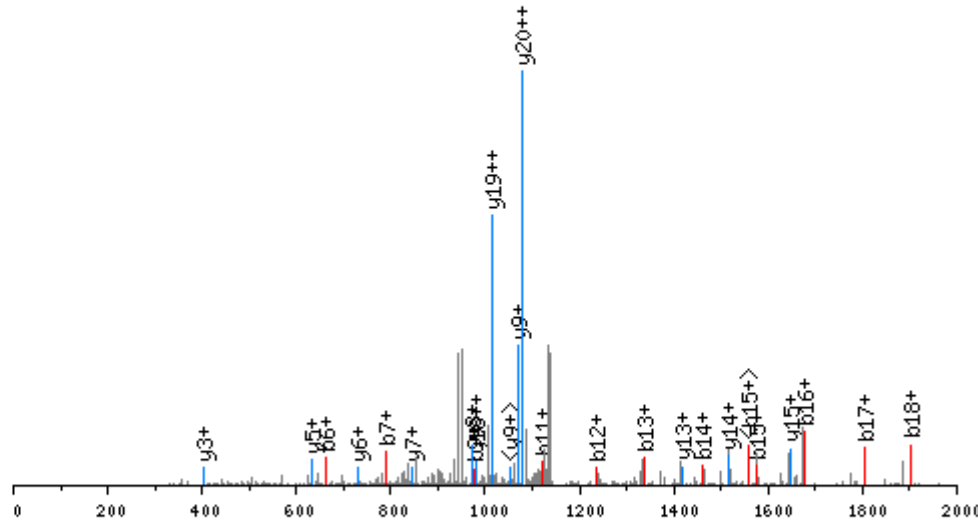
hide H₂O/NH₃

zoom 112-122

GO

EFKANAECTSGSNVKIVKVKKE, MH+ 2306.6804, m/z 1153.8438
 CIITA_122309_run2.4923.4923.2.dta

scan 0; 8.7e+002



click image to zoom in; click top corners to zoom out

b ⁺	#	AA	#	y ⁺	y ²⁺
148.1818	1	F	21		
276.3541	2	K	20	2159.5066	1080.2572
347.4320	3	R	19	2031.3343	1016.1711
461.5346	4	N	18	1960.2564	980.6322
532.6125	5	R	17	1846.1537	923.5808
661.7265	6	E	16	1775.0758	888.0419
789.8988	7	K	15	1645.9619	823.4849
891.0027	8	T	14	1517.7896	759.3988
978.0800	9	S	13	1416.6857	708.8468
1035.1313	10	G	12	1329.6084	665.3082
1122.2086	11	S	11	1272.5571	636.7825
1236.3112	12	N	10	1185.4798	593.2439
1335.4423	13	V	9	1071.3771	536.1925
1463.6146	14	K	8	972.2461	486.6270
1576.7722	15	I	7	844.0738	422.5409
1675.9033	16	V	6	730.9162	365.9620
1804.0755	17	K	5	631.7851	316.3965
1903.2066	18	V	4	503.6128	252.3104
2031.3789	19	K	3	404.4818	202.7448
2159.5512	20	K	2	276.3095	138.6587
	21	E	1	148.1372	74.5726

KVKSLNDITAKERFSPLTTNLI

X-range:

0 - 0

MassTol: Y-zoom:

0.950 1.00

MassType:

AVG MOMO

Axis:

1 2

Label:

I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

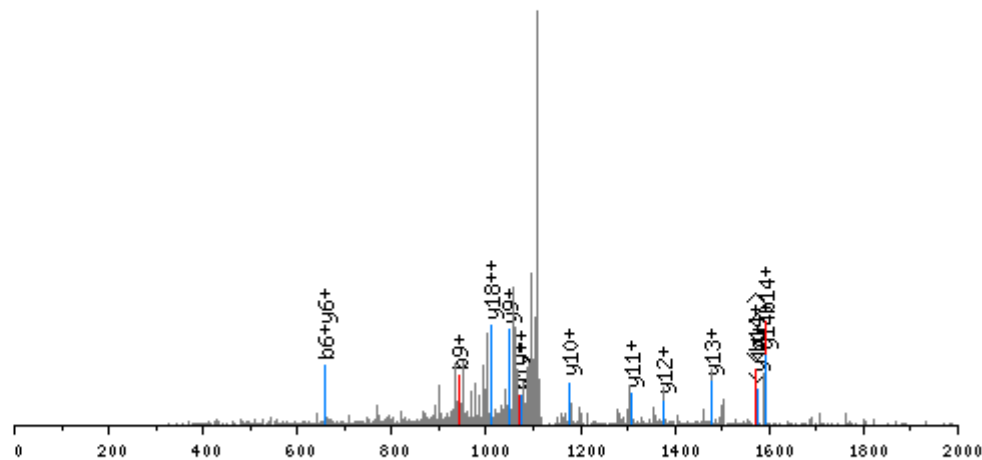
hide H₂O/NH₃

zoom 112-122

GO

KVKSLNDITAKERFSPLTTNL, MH+ 2248.5549, m/z 1124.7811
CIITA_012610_run1.6988.6988.2.dta

scan 0; 1.6e+003



click image to zoom in; click top corners to zoom out

b ⁺	#	AA	#	y ⁺	y ²⁺
100.1390	1	V	20		
228.3113	2	K	19	2149.4239	1075.2159
315.3886	3	S	18	2021.2516	1011.1298
428.5462	4	L	17	1934.1743	967.5911
542.6489	5	N	16	1821.0166	911.0123
657.7363	6	D	15	1706.9140	853.9610
770.8939	7	I	14	1591.8266	796.4173
871.9978	8	T	13	1478.6690	739.8384
943.0757	9	R	12	1377.5651	689.2865
1071.2480	10	K	11	1306.4872	653.7476
1200.3619	11	E	10	1178.3149	589.6614
1356.5476	12	R	9	1049.2009	525.1044
1503.7215	13	F	8	893.0152	447.0116
1590.7988	14	S	7	745.8414	373.4247
1687.9140	15	P	6	658.7641	329.8860
1801.0716	16	L	5	561.6489	281.3284
1902.1755	17	T	4	448.4913	224.7496
2003.2794	18	T	3	347.3874	174.1977
2117.3820	19	N	2	246.2835	123.6457
	20	L	1	132.1809	66.5944

LIKEGDIVKRTGAIVDVPVGEELL

X-range: -

MassTol: Y-zoom:

MassType: AVG MONO

Axis: 1 2

Label: I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

x + 2+ 3+

y + 2+ 3+

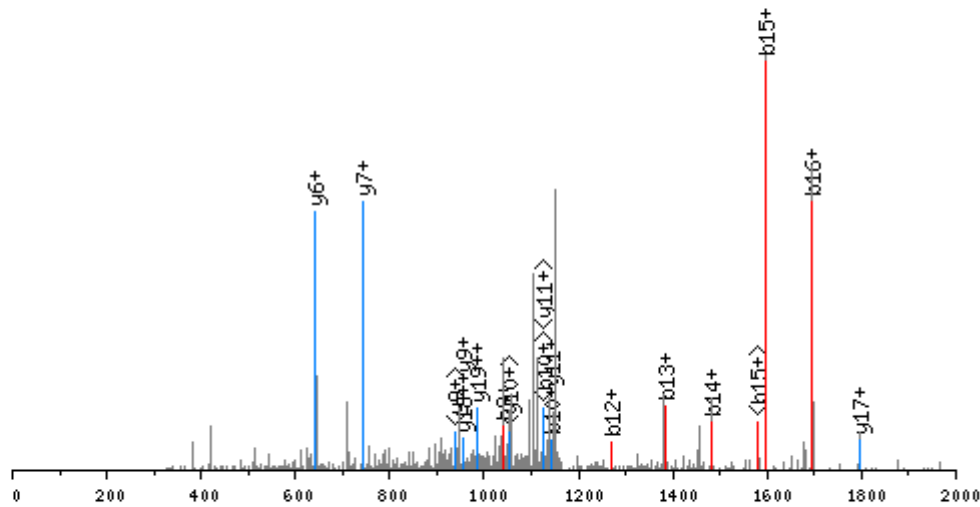
z + 2+ 3+

hide H₂O/NH₃

zoom 112-122

LIKEGDIVKRTGAIVDVPVGEEL, MH+ 2338.6759, m/z 1169.8416
 CIITA_012610_run1.7121.7121.2.dta

scan #: 3.7e+002

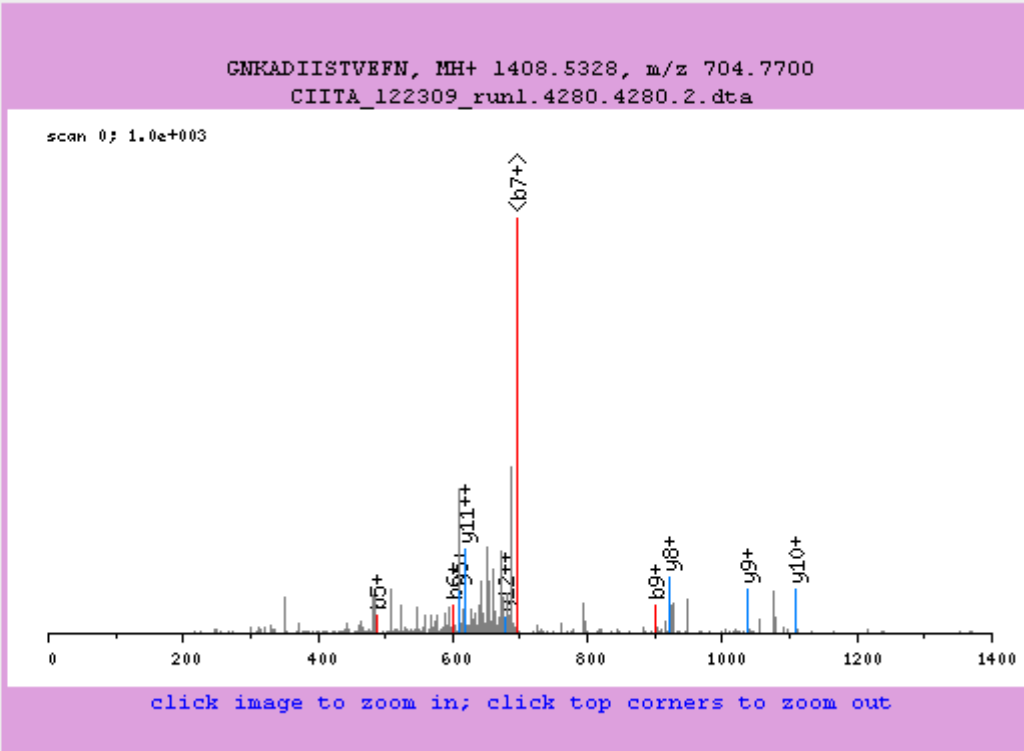


click image to zoom in; click top corners to zoom out

b ⁺	#	AA	#	y ⁺	y ²⁺
114.1656	1	I	22		
242.3379	2	K	21	2225.5183	1113.2631
371.4518	3	E	20	2097.3460	1049.1770
428.5032	4	G	19	1968.2320	984.6200
543.5906	5	D	18	1911.1807	956.0943
656.7482	6	I	17	1796.0933	898.5506
755.8793	7	V	16	1682.9357	841.9718
884.0515	8	K	15	1583.8046	792.4063
1040.2372	9	R	14	1455.6323	728.3201
1141.3411	10	T	13	1299.4466	650.2273
1198.3924	11	G	12	1198.3428	599.6753
1269.4703	12	R	11	1141.2914	571.1497
1382.6280	13	I	10	1070.2135	535.6107
1481.7590	14	V	9	957.0559	479.0319
1596.8464	15	D	8	857.9248	429.4664
1695.9775	16	V	7	742.8374	371.9227
1793.0927	17	P	6	643.7064	322.3572
1892.2237	18	V	5	546.5912	273.7996
1949.2750	19	G	4	447.4601	224.2340
2078.3890	20	E	3	390.4088	195.7084
2207.5030	21	E	2	261.2948	131.1514
	22	L	1	132.1809	66.5944

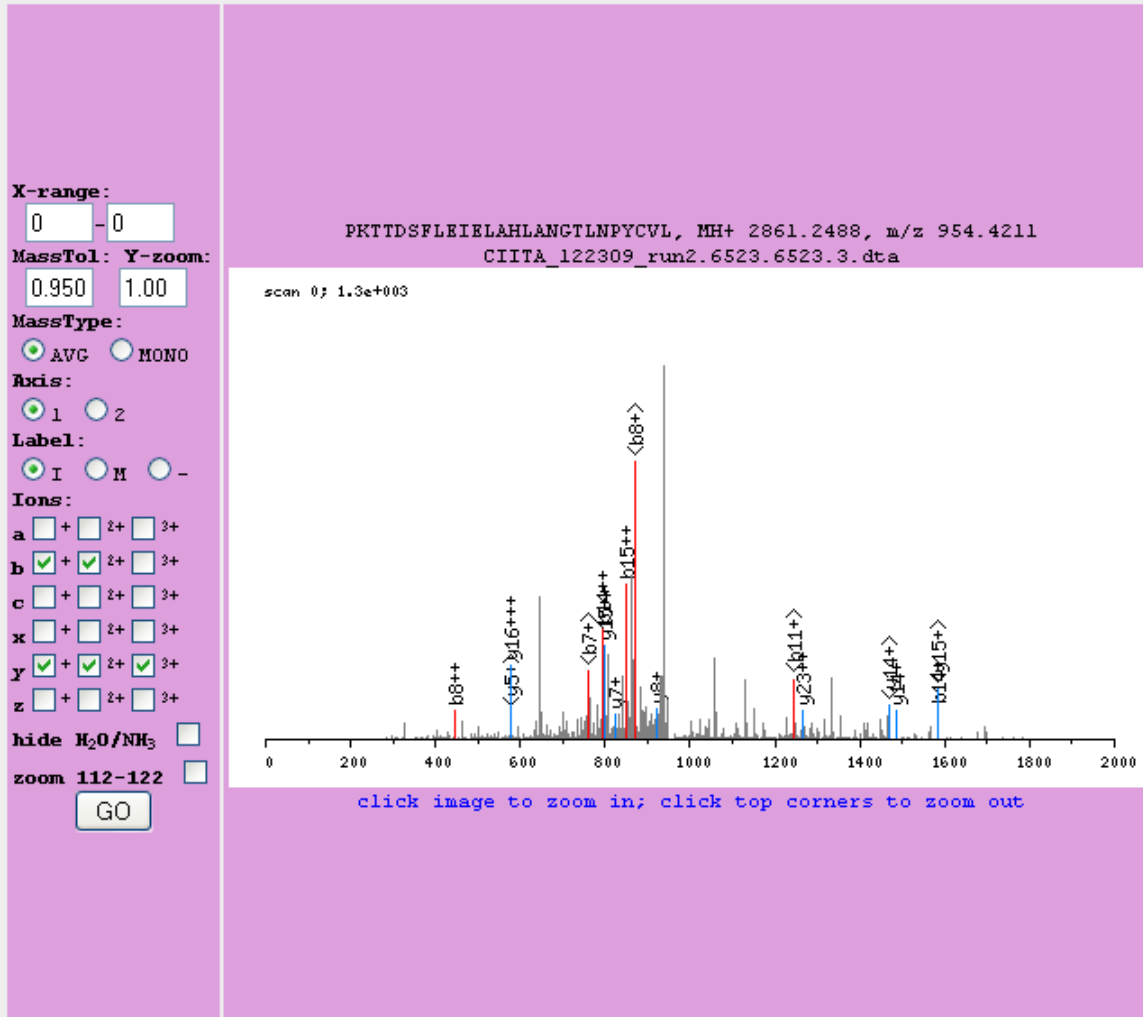
YGNKADIISTVEFNH

X-range: -
MassTol: **Y-zoom:**
MassType:
 AVG MONO
Axis:
 1 2
Label:
 I M -
Ions:
a + 2+ 3+
b + 2+ 3+
c + 2+ 3+
x + 2+ 3+
y + 2+ 3+
z + 2+ 3+
hide H₂O/NH₃
zoom



b ⁺	#	AA	#	y ⁺	y ²⁺
58.0593	1	G	13		
172.1619	2	N	12	1351.4814	676.2447
300.3342	3	K	11	1237.3788	619.1934
371.4121	4	R	10	1109.2065	555.1072
486.4995	5	D	9	1038.1286	519.5683
599.6571	6	I	8	923.0412	462.0246
712.8148	7	I	7	809.8836	405.4458
799.8921	8	S	6	696.7259	348.8669
900.9959	9	T	5	609.6486	305.3283
1000.1270	10	V	4	508.5448	254.7763
1129.2410	11	E	3	409.4137	205.2108
1276.4148	12	F	2	280.2997	140.6538
	13	N	1	133.1259	67.0669

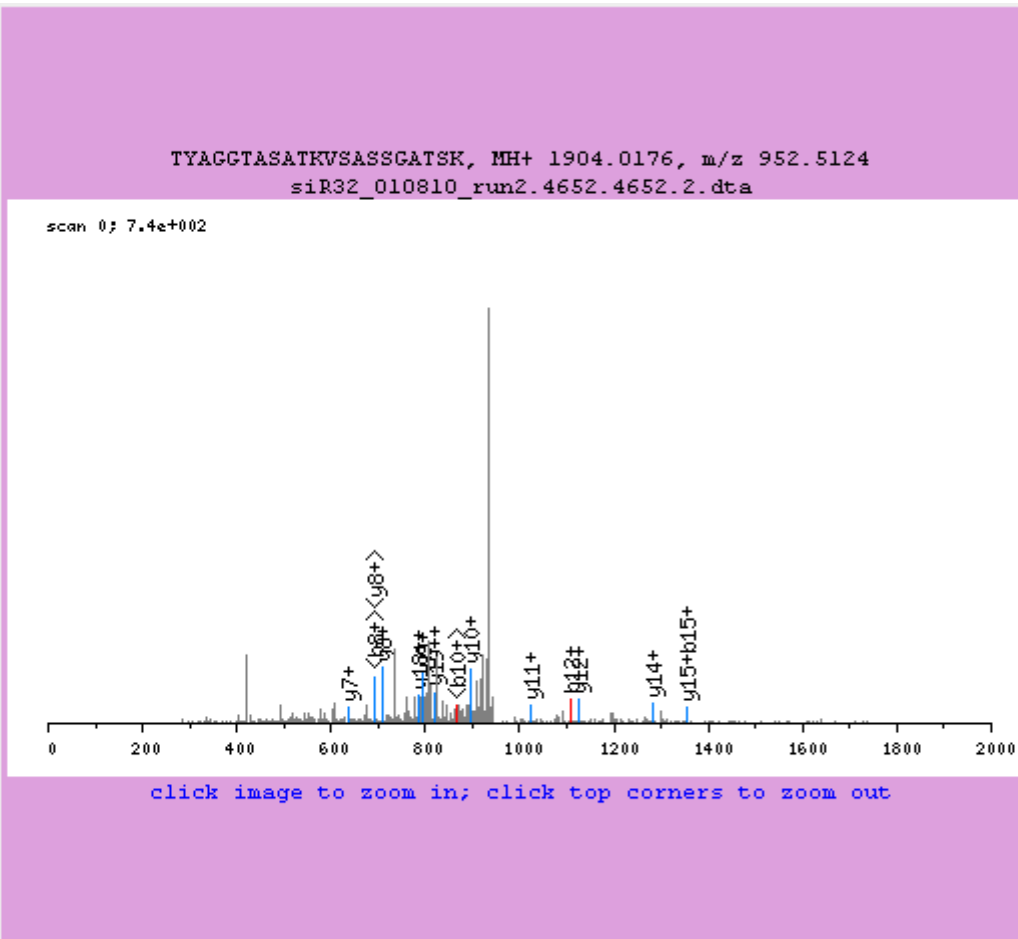
EPKTTDSFLEIELAHLANGTLNPPYCVLW



b ⁺	b ²⁺	#	AA	#	y ⁺	y ²⁺	y ³⁺
98.1231	49.5655	1	P	26			
226.2954	113.6517	2	K	25	2764.1336	1382.5708	922.0498
327.3993	164.2036	3	T	24	2635.9613	1318.4846	879.3257
428.5032	214.7556	4	T	23	2534.8574	1267.9327	845.6244
543.5906	272.2992	5	D	22	2433.7535	1217.3807	811.9231
630.6679	315.8379	6	S	21	2318.6661	1159.8370	773.5607
777.8417	389.4248	7	F	20	2231.5888	1116.2984	744.5349
890.9994	446.0036	8	L	19	2084.4150	1042.7115	695.4770
1020.1133	510.5606	9	E	18	1971.2573	986.1326	657.7577
1133.2710	567.1395	10	I	17	1842.1434	921.5757	614.7197
1262.3850	631.6965	11	E	16	1728.9857	864.9968	577.0005
1375.5426	688.2753	12	L	15	1599.8717	800.4398	533.9625
1446.6205	723.8142	13	A	14	1486.7141	743.8610	496.2433
1583.7598	792.3839	14	H	13	1415.6362	708.3221	472.5507
1696.9174	848.9627	15	L	12	1278.4969	639.7524	426.8376
1767.9953	884.5016	16	A	11	1165.3393	583.1736	389.1184
1882.0980	941.5530	17	N	10	1094.2614	547.6347	365.4258
1939.1493	970.0786	18	G	9	980.1587	490.5833	327.3915
2040.2532	1020.6306	19	T	8	923.1074	462.0577	308.3744
2153.4108	1077.2094	20	L	7	822.0035	411.5057	274.6731
2267.5134	1134.2607	21	N	6	708.8459	354.9269	236.9539
2364.6286	1182.8183	22	P	5	594.7433	297.8756	198.9197
2527.8019	1264.4049	23	Y	4	497.6281	249.3180	166.5480
2630.9448	1315.9764	24	C	3	334.4548	167.7314	112.1569
2730.0758	1365.5419	25	V	2	231.3119	116.1599	77.7759
		26	L	1	132.1809	66.5944	44.7322

RTYAGGTASATKVSASSGATSKS

X-range:
 -
MassTol: **Y-zoom:**
MassType:
 AVG MONO
Axis:
 1 2
Label:
 I M -
Ions:
a + 2+ 3+
b + 2+ 3+
c + 2+ 3+
x + 2+ 3+
y + 2+ 3+
z + 2+ 3+
hide H₂O/NH₃
zoom 112-122



b ⁺	#	AA	#	y ⁺	y ²⁺
102.1118	1	T	21		
265.2851	2	Y	20	1802.9137	901.9608
336.3630	3	R	19	1639.7404	820.3742
393.4143	4	G	18	1568.6625	784.8352
450.4656	5	G	17	1511.6112	756.3096
551.5695	6	T	16	1454.5599	727.7839
622.6474	7	R	15	1353.4560	677.2320
709.7247	8	S	14	1282.3781	641.6930
780.8026	9	R	13	1195.3008	598.1544
881.9065	10	T	12	1124.2229	562.6154
1010.0788	11	K	11	1023.1190	512.0635
1109.2098	12	V	10	894.9468	447.9773
1196.2871	13	S	9	795.8157	398.4118
1267.3650	14	R	8	708.7384	354.8732
1354.4423	15	S	7	637.6605	319.3342
1441.5196	16	S	6	550.5832	275.7956
1498.5709	17	G	5	463.5059	232.2569
1569.6488	18	R	4	406.4546	203.7313
1670.7527	19	T	3	335.3767	168.1923
1757.8300	20	S	2	234.2728	117.6404
	21	K	1	147.1955	74.1017

RRLRPGTGCCHPSLPF

X-range:
 -

MassTol: **Y-zoom:**

MassType:
 AVG MONO

Axis:
 1 2

Label:
 I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

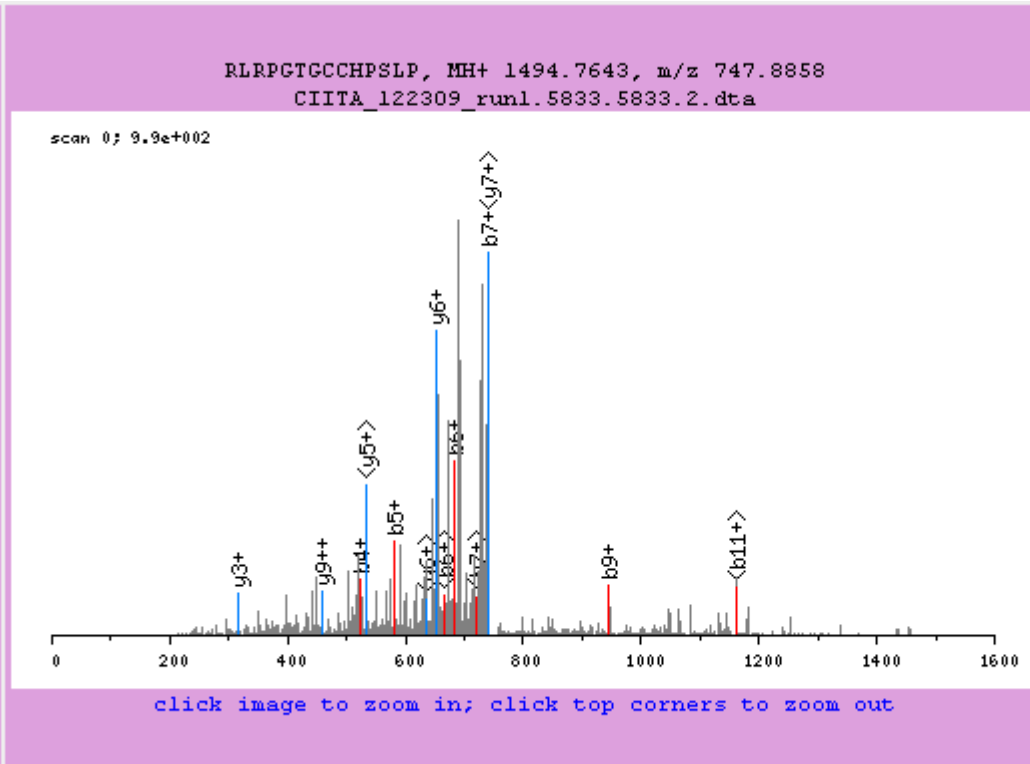
x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

hide H₂O/NH₃

zoom 112-122



b ⁺	#	AA	#	y ⁺	y ²⁺
157.1936	1	R	14		
270.3513	2	L	13	1338.5786	669.7933
426.5369	3	R	12	1225.4210	613.2145
523.6521	4	P	11	1069.2353	535.1216
580.7034	5	G	10	972.1201	486.5640
681.8073	6	T	9	915.0688	458.0384
738.8586	7	G	8	813.9649	407.4864
842.0015	8	C	7	756.9136	378.9608
945.1444	9	C	6	653.7707	327.3893
1082.2837	10	H	5	550.6278	275.8179
1179.3989	11	P	4	413.4885	207.2482
1266.4762	12	S	3	316.3733	158.6906
1379.6338	13	L	2	229.2960	115.1520
	14	P	1	116.1384	58.5732

YLKSHHGEHERPEFI

X-range: -

MassTol: Y-zoom:

MassType: AVG MONO

Axis: 1 2

Label: I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

x + 2+ 3+

y + 2+ 3+

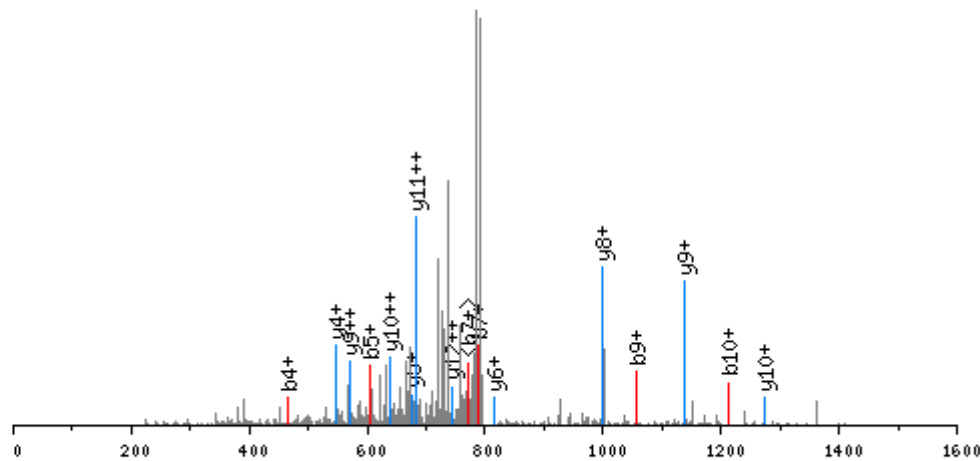
z + 2+ 3+

hide H₂O/NH₃

zoom 112-122

LKSHHGEHERPEF, MH+ 1603.7163, m/z 802.3618
 CIITA_012610_run1.4936.4936.2.dta

scan 0; 6.1e+002



click image to zoom in; click top corners to zoom out

b ⁺	#	AA	#	y ⁺	y ²⁺
114.1656	1	L	13		
242.3379	2	K	12	1490.5586	745.7833
329.4152	3	S	11	1362.3863	681.6971
466.5544	4	H	10	1275.3090	638.1585
603.6937	5	H	9	1138.1698	569.5889
660.7450	6	G	8	1001.0305	501.0192
789.8590	7	E	7	943.9792	472.4936
926.9983	8	H	6	814.8652	407.9366
1056.1123	9	E	5	677.7259	339.3669
1212.2980	10	R	4	548.6119	274.8099
1309.4131	11	P	3	392.4262	196.7171
1438.5271	12	E	2	295.3111	148.1595
	13	F	1	166.1971	83.6025

KENLDPSNLMPPPNT

X-range: -

MassTol: Y-zoom:

MassType: AVG MONO

Axis: 1 2

Label: I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

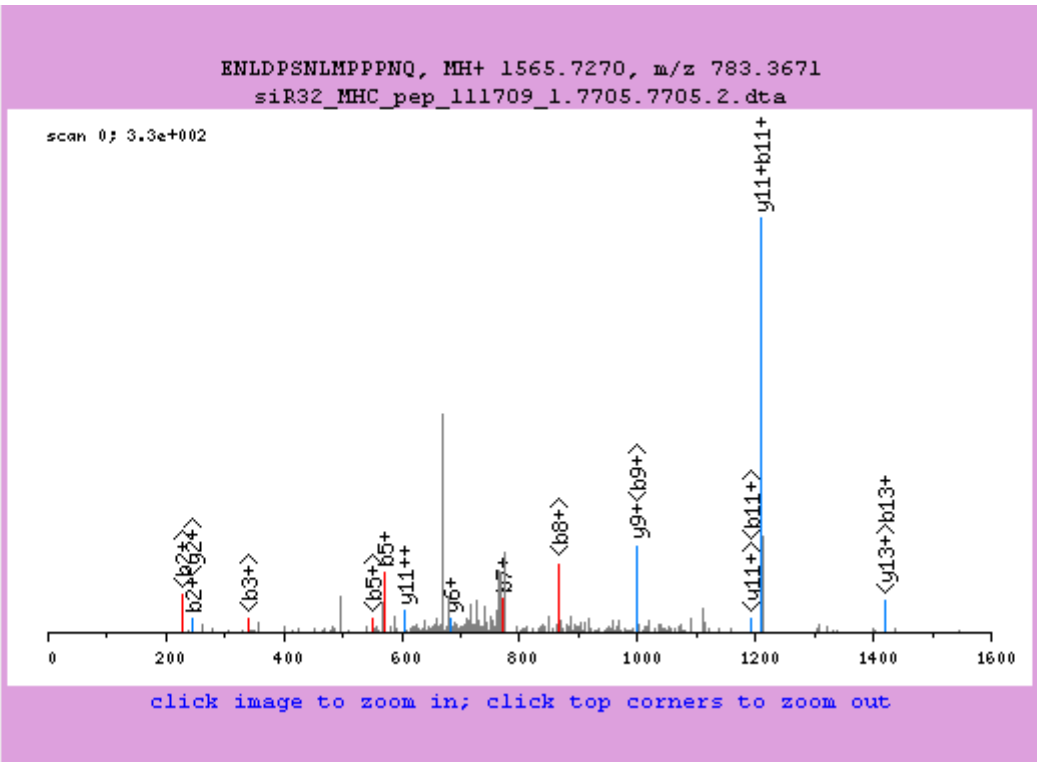
x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

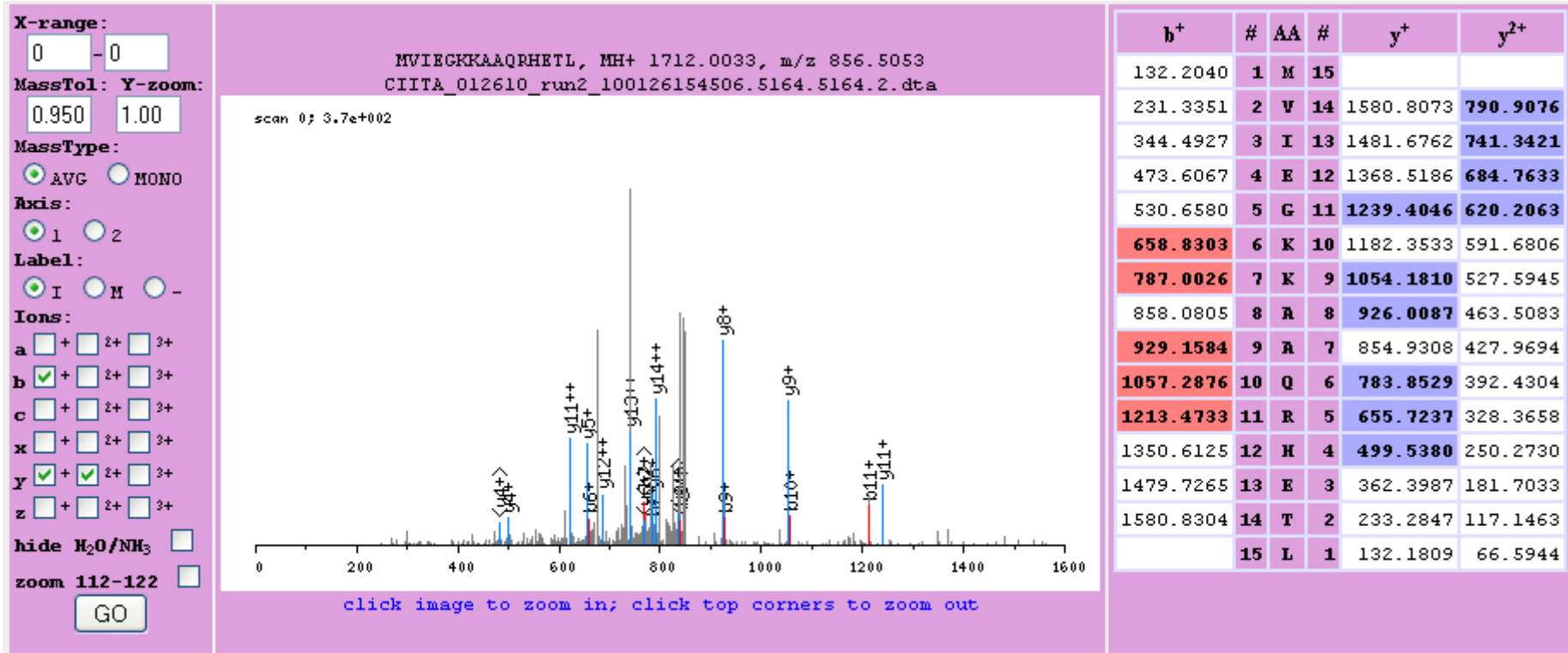
hide H₂O/NH₃

zoom 112-122



b ⁺	#	AA	#	y ⁺	y ²⁺
130.0504	1	E	14		
244.0933	2	N	13	1436.6844	718.8461
357.1774	3	L	12	1322.6415	661.8246
472.2044	4	D	11	1209.5574	605.2826
569.2571	5	P	10	1094.5305	547.7691
656.2891	6	S	9	997.4777	499.2428
770.3321	7	N	8	910.4457	455.7267
883.4161	8	L	7	796.4027	398.7053
1014.4566	9	M	6	683.3187	342.1632
1111.5094	10	P	5	552.2782	276.6430
1208.5621	11	P	4	455.2254	228.1166
1305.6149	12	P	3	358.1727	179.5902
1419.6578	13	N	2	261.1199	131.0639
	14	Q	1	147.0770	74.0424

FMVIEGKKAQRHETLT



RTIEKFEKEAAEMGKG

X-range:
 -

MassTol: **Y-zoom:**

MassType:
 AVG MONO

Axis:
 1 2

Label:
 I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

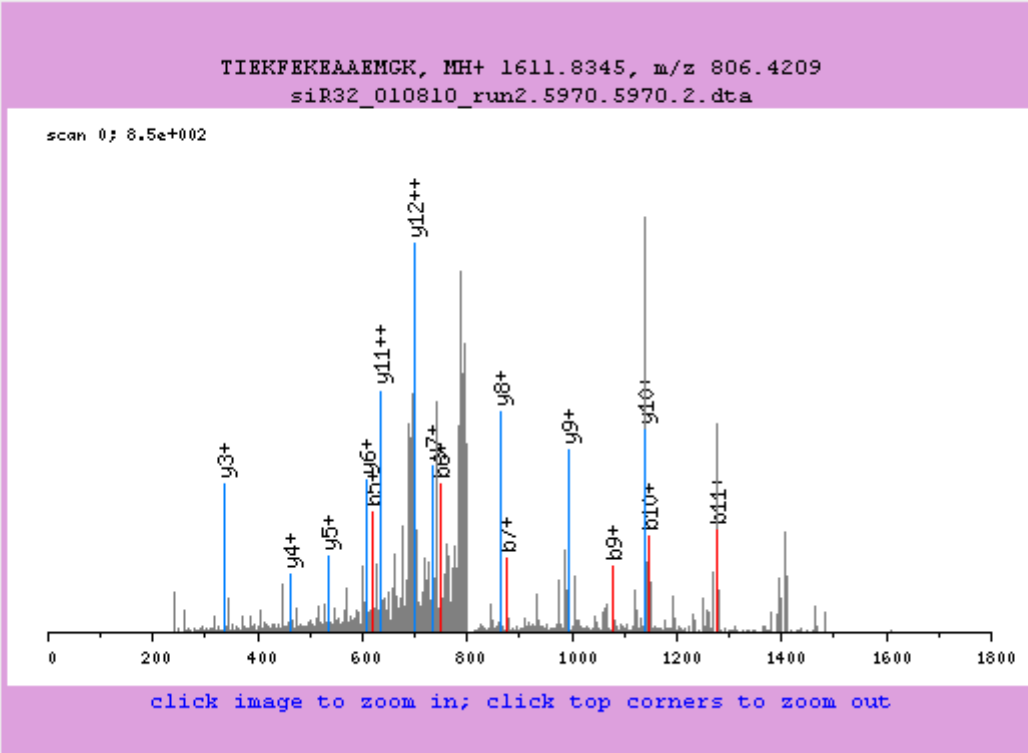
x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

hide H₂O/NH₃

zoom 112-122



b ⁺	#	AA	#	y ⁺	y ²⁺
102.1118	1	T	14		
215.2695	2	I	13	1510.7307	755.8693
344.3834	3	E	12	1397.5730	699.2905
472.5557	4	K	11	1268.4590	634.7335
619.7296	5	F	10	1140.2868	570.6474
748.8436	6	E	9	993.1129	497.0604
877.0158	7	K	8	863.9989	432.5034
1006.1298	8	E	7	735.8266	368.4173
1077.2077	9	R	6	606.7127	303.8603
1148.2856	10	R	5	535.6348	268.3214
1277.3996	11	E	4	464.5569	232.7824
1408.5957	12	M	3	335.4429	168.2254
1465.6470	13	G	2	204.2468	102.6274
	14	K	1	147.1955	74.1017

LPVGAANFR

X-range:
 -

MassTol: **Y-zoom:**

MassType:
 AVG MONO

Axis:
 1 2

Label:
 I H -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

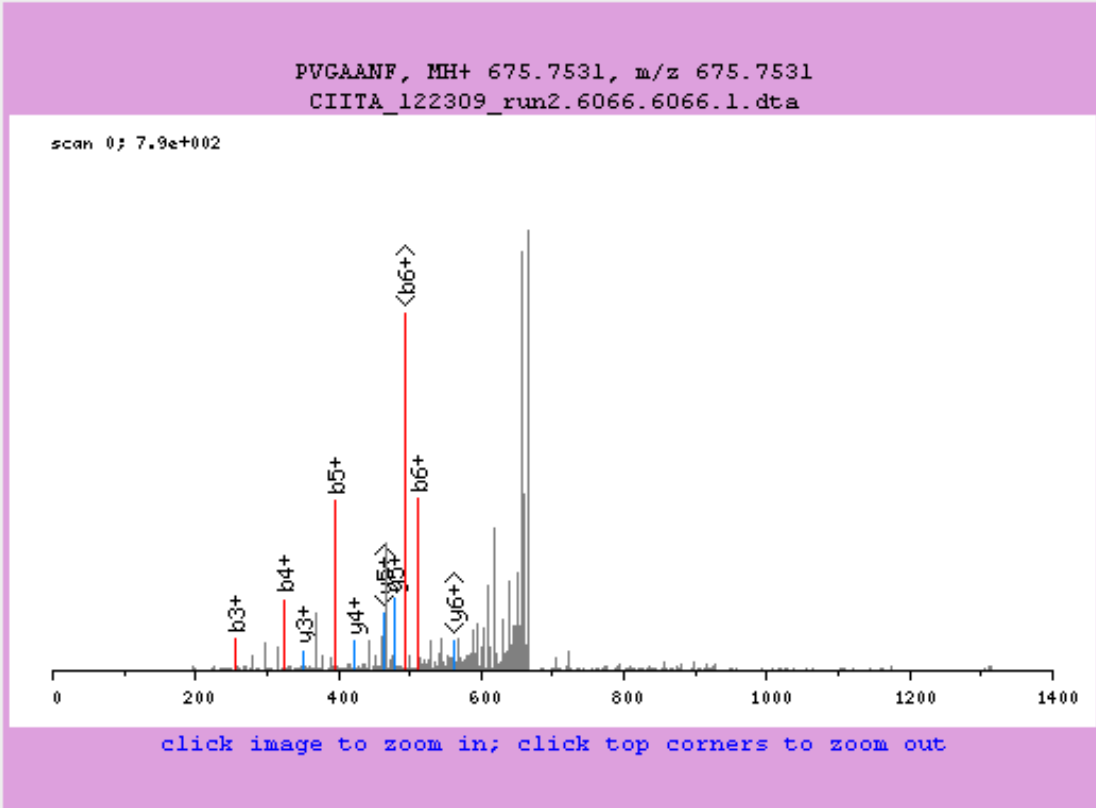
x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

hide H₂O/NH₃

zoom 112-122



b ⁺	#	AA	#	y ⁺
98.1231	1	P	7	
197.2542	2	V	6	578.6379
254.3055	3	G	5	479.5068
325.3834	4	R	4	422.4555
396.4613	5	R	3	351.3776
510.5639	6	N	2	280.2997
	7	F	1	166.1971

FITKMDYPKQTQVSVLPEGGETPLFKQFF

X-range:

0 - 0

MassTol: Y-zoom:

0.950 1.00

MassType:

AVG MONO

Axis:

1 2

Label:

I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

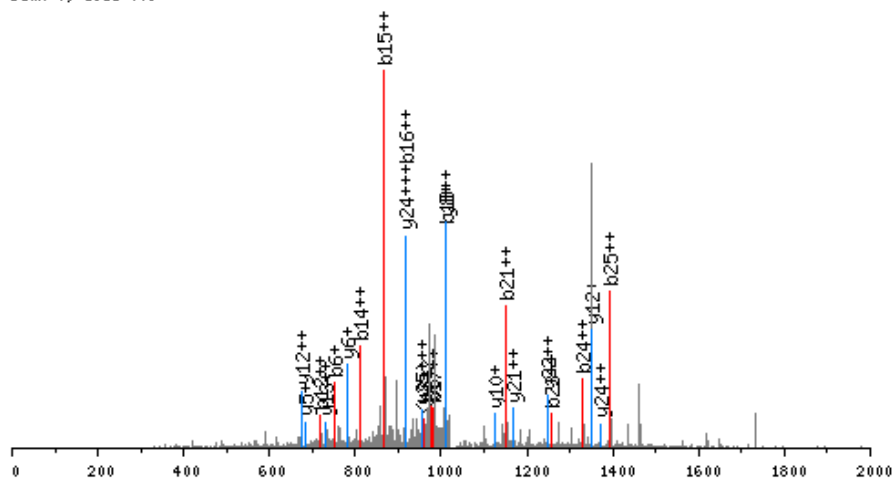
hide H₂O/NH₃

zoom 112-122

GO

ITKMDYPKQTQVSVLPEGGETPLFKQF, MH+ 3083.5323, m/z 1028.5156
CIITA_012610_run1.7358.7360.3.dta

scan 0; 1.1e+003



click image to zoom in; click top corners to zoom out

b ⁺	b ²⁺	#	AA	#	y ⁺	y ²⁺	y ³⁺
114.1656	57.5868	1	I	27			
215.2695	108.1387	2	T	26	2970.3746	1485.6913	990.7968
343.4417	172.2248	3	K	25	2869.2708	1435.1393	957.0955
474.6378	237.8229	4	M	24	2741.0985	1371.0532	914.3715
589.7252	295.3666	5	D	23	2609.9024	1305.4552	870.6394
752.8985	376.9532	6	Y	22	2494.8150	1247.9115	832.2770
850.0136	425.5108	7	P	21	2331.6418	1166.3248	777.8859
978.1859	489.5969	8	K	20	2234.5266	1117.7673	745.5142
1106.3151	553.6615	9	Q	19	2106.3543	1053.6811	702.7901
1207.4190	604.2135	10	T	18	1978.2251	989.6165	660.0803
1335.5482	668.2781	11	Q	17	1877.1212	939.0646	626.3790
1434.6793	717.8436	12	V	16	1748.9920	875.0000	583.6693
1521.7566	761.3823	13	S	15	1649.8609	825.4344	550.6256
1620.8877	810.9478	14	V	14	1562.7836	781.8958	521.5998
1734.0453	867.5266	15	L	13	1463.6526	732.3303	488.5561
1831.1605	916.0842	16	P	12	1350.4949	675.7514	450.8369
1960.2745	980.6412	17	E	11	1253.3797	627.1938	418.4652
2017.3258	1009.1669	18	G	10	1124.2658	562.6369	375.4272
2074.3771	1037.6925	19	G	9	1067.2144	534.1112	356.4101
2203.4911	1102.2495	20	E	8	1010.1631	505.5855	337.3930
2304.5950	1152.8014	21	T	7	881.0491	441.0285	294.3550
2401.7101	1201.3590	22	P	6	779.9453	390.4766	260.6537
2514.8678	1257.9379	23	L	5	682.8301	341.9190	228.2820
2662.0416	1331.5248	24	F	4	569.6724	285.3402	190.5628
2790.2139	1395.6109	25	K	3	422.4986	211.7533	141.5048
2918.3431	1459.6755	26	Q	2	294.3263	147.6671	98.7807
		27	F	1	166.1971	83.6025	56.0710

QWLGSSWPGYVRPLPPAAIESPAVAAPAYSRA

X-range:

0 - 0

MassTol: Y-zoom:

0.950 1.00

MassType:

AVG MONO

Axis:

1 2

Label:

I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

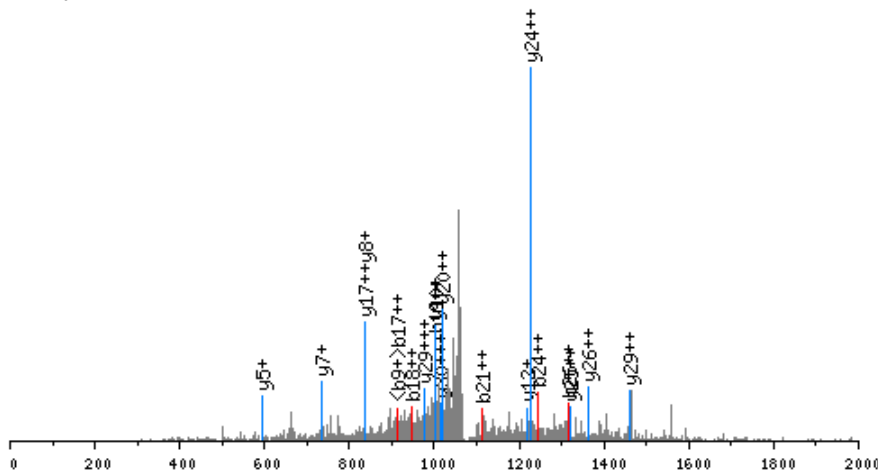
hide H₂O/NH₃

zoom 112-122

GO

WLGSSWPGYVRPLPPAAIESPAVAAPAYSRA, MH+ 3225.6316, m/z 1075.8820
 sir32_010810_run1_100127172200.7639.7639.3.dta

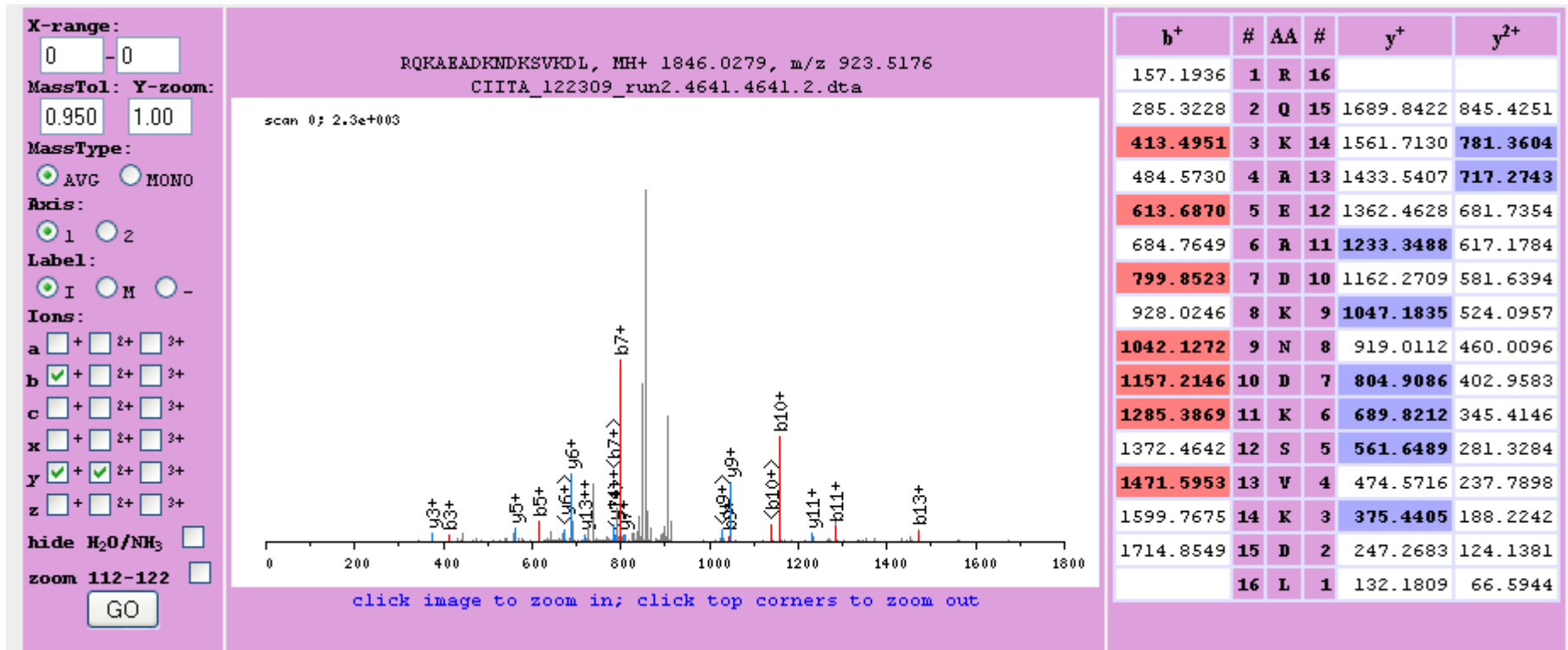
scan 0; 5.4e+002



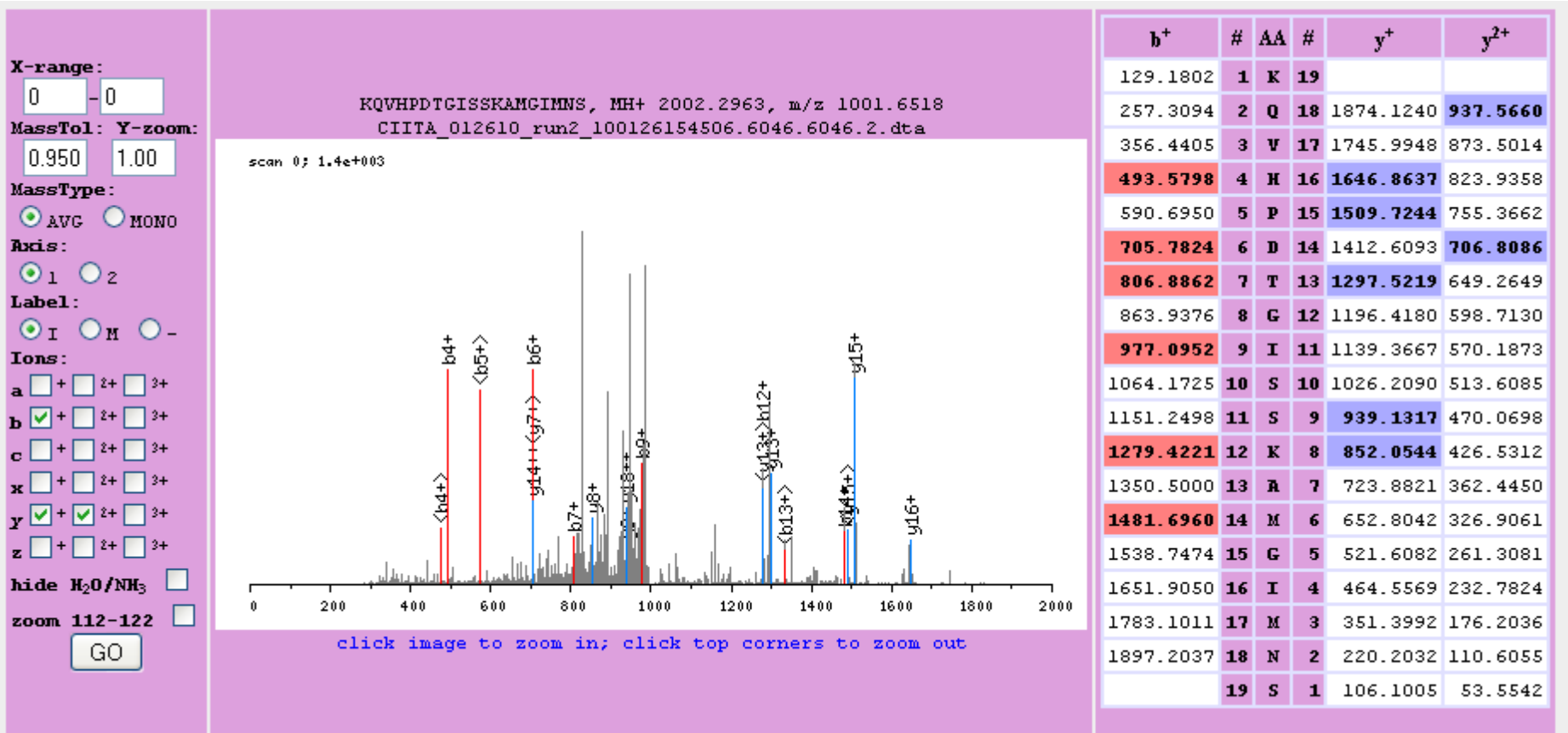
click image to zoom in; click top corners to zoom out

b ⁺	b ²⁺	#	AA	#	y ⁺	y ²⁺	y ³⁺
187.2178	94.1129	1	W	31			
300.3755	150.6917	2	L	30	3039.4217	1520.2148	1013.8125
357.4268	179.2174	3	G	29	2926.2640	1463.6360	976.0933
414.4781	207.7430	4	G	28	2869.2127	1435.1103	957.0762
501.5554	251.2817	5	S	27	2812.1614	1406.5847	938.0591
588.6327	294.8203	6	S	26	2725.0841	1363.0460	909.0333
774.8426	387.9253	7	W	25	2638.0068	1319.5074	880.0076
871.9578	436.4829	8	P	24	2451.7969	1226.4024	817.9376
929.0091	465.0085	9	G	23	2354.6817	1177.8448	785.5659
1092.1824	546.5952	10	Y	22	2297.6304	1149.3192	766.5488
1191.3134	596.1607	11	V	21	2134.4571	1067.7325	712.1577
1347.4991	674.2535	12	R	20	2035.3261	1018.1670	679.1140
1444.6143	722.8111	13	P	19	1879.1404	940.0742	627.0521
1557.7719	779.3899	14	L	18	1782.0252	891.5166	594.6804
1654.8871	827.9475	15	P	17	1668.8676	834.9378	556.9611
1752.0023	876.5051	16	P	16	1571.7524	786.3802	524.5894
1823.0802	912.0441	17	A	15	1474.6372	737.8226	492.2177
1894.1581	947.5830	18	A	14	1403.5593	702.2836	468.5251
2007.3157	1004.1618	19	I	13	1332.4814	666.7447	444.8324
2136.4297	1068.7188	20	E	12	1219.3238	610.1659	407.1132
2223.5070	1112.2575	21	S	11	1090.2098	545.6089	364.0752
2320.6222	1160.8151	22	P	10	1003.1325	502.0702	335.0495
2391.7001	1196.3540	23	A	9	906.0173	453.5126	302.6777
2490.8312	1245.9195	24	V	8	834.9394	417.9737	278.9851
2561.9091	1281.4585	25	A	7	735.8083	368.4081	245.9414
2632.9870	1316.9974	26	A	6	664.7304	332.8692	222.2488
2730.1021	1365.5550	27	P	5	593.6525	297.3302	198.5561
2801.1800	1401.0940	28	A	4	496.5374	248.7727	166.1844
2964.3533	1482.6806	29	Y	3	425.4595	213.2337	142.4918
3051.4306	1526.2193	30	S	2	262.2862	131.6471	88.1007
		31	R	1	175.2089	88.1084	59.0749

LRQKAEADKNDKSVKDLV



LKQVHPDTGISSKAMGIMNSF



LTNSPVELREP NVLI

X-range:
 -

MassTol: **Y-zoom:**

MassType:
 AVG MONO

Axis:
 1 2

Label:
 I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

x + 2+ 3+

y + 2+ 3+

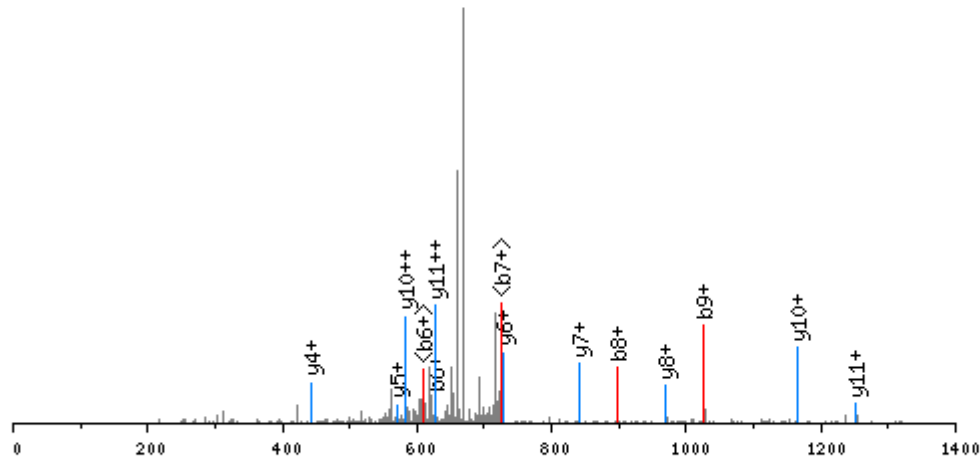
z + 2+ 3+

hide H₂O/NH₃

zoom 112-122

TNSPVELREP NVL, MH+ 1468.6311, m/z 734.8192
 CIITA_012610_run1.6666.6666.2.dta

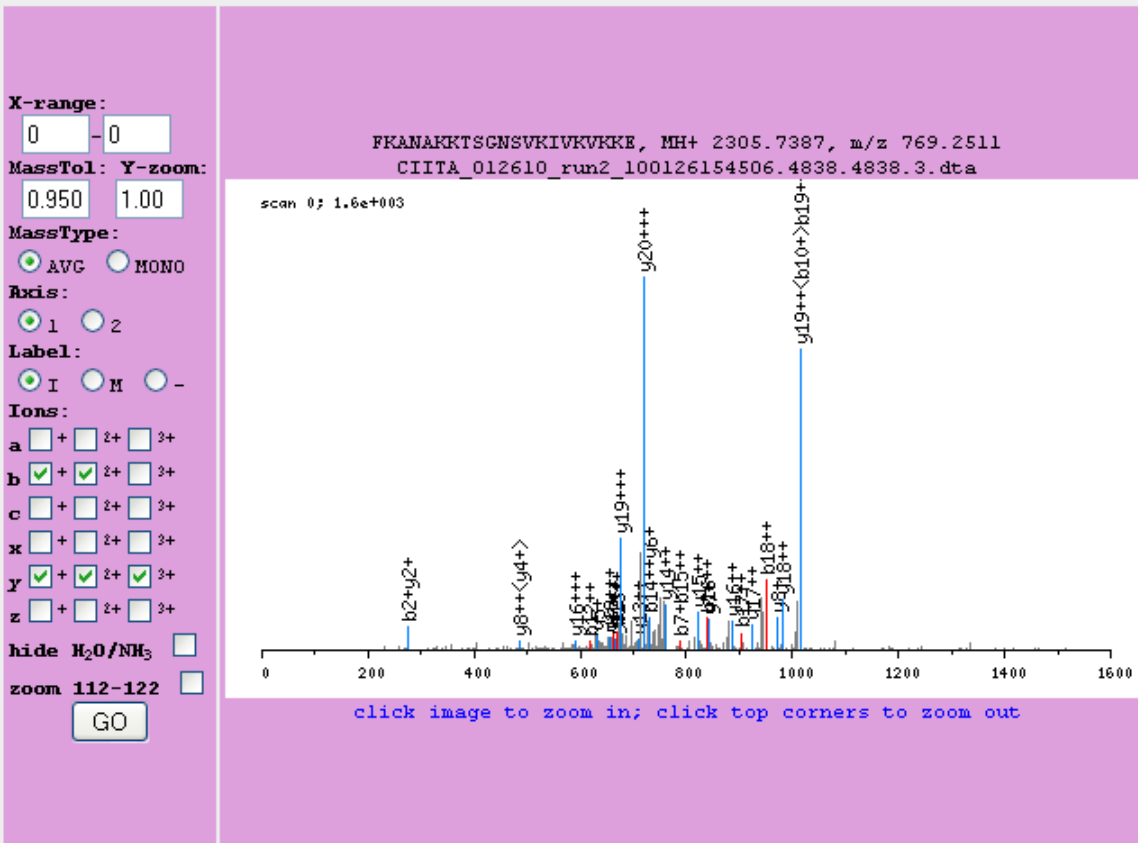
scan 0; 8.4e+002



click image to zoom in; click top corners to zoom out

b ⁺	#	AA	#	y ⁺	y ²⁺
102.1118	1	T	13		
216.2145	2	N	12	1367.5272	684.2676
303.2918	3	S	11	1253.4246	627.2162
400.4069	4	P	10	1166.3473	583.6776
499.5380	5	V	9	1069.2321	535.1200
628.6520	6	E	8	970.1010	485.5545
741.8096	7	L	7	840.9870	420.9975
897.9953	8	R	6	727.8294	364.4187
1027.1093	9	E	5	571.6437	286.3258
1124.2245	10	P	4	442.5297	221.7688
1238.3271	11	N	3	345.4146	173.2113
1337.4582	12	V	2	231.3119	116.1599
	13	L	1	132.1809	66.5944

EFGANAKKTSGNSVKIVKVKKE



b ⁺	b ²⁺	#	AA	#	y ⁺	y ²⁺	y ³⁺
148.1818	74.5949	1	F	21			
276.3541	138.6810	2	K	20	2158.5649	1079.7864	720.1936
347.4320	174.2200	3	R	19	2030.3926	1015.7003	677.4695
461.5346	231.2713	4	N	18	1959.3147	980.1613	653.7769
532.6125	266.8102	5	R	17	1845.2120	923.1100	615.7426
660.7848	330.8964	6	K	16	1774.1341	887.5710	592.0500
788.9571	394.9825	7	K	15	1645.9619	823.4849	549.3259
890.0610	445.5344	8	T	14	1517.7896	759.3988	506.6018
977.1383	489.0731	9	S	13	1416.6857	708.8468	472.9005
1034.1896	517.5988	10	G	12	1329.6084	665.3082	443.8748
1148.2922	574.6501	11	N	11	1272.5571	636.7825	424.8577
1235.3695	618.1887	12	S	10	1158.4544	579.7312	386.8234
1334.5006	667.7543	13	V	9	1071.3771	536.1925	357.7977
1462.6729	731.8404	14	K	8	972.2461	486.6270	324.7540
1575.8305	788.4192	15	I	7	844.0738	422.5409	282.0299
1674.9616	837.9847	16	V	6	730.9162	365.9620	244.3107
1803.1338	902.0709	17	K	5	631.7851	316.3965	211.2670
1902.2649	951.6364	18	V	4	503.6128	252.3104	168.5429
2030.4372	1015.7226	19	K	3	404.4818	202.7448	135.4992
2158.6095	1079.8087	20	K	2	276.3095	138.6587	92.7751
		21	E	1	148.1372	74.5726	50.0510

LSVSEVGTQTSITTACAGTQTAVITR

X-range: -

MassTol: Y-zoom:

MassType:
 AVG MONO

Axis:
 1 2

Label:
 I M -

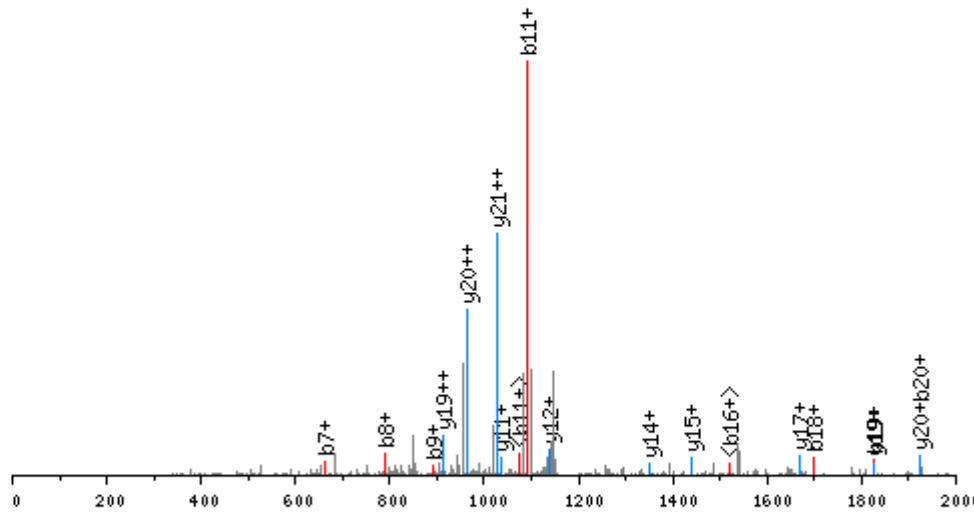
Ions:
a + 2+ 3+
b + 2+ 3+
c + 2+ 3+
x + 2+ 3+
y + 2+ 3+
z + 2+ 3+

hide H₂O/NH₃

zoom

SVSEVGTQTSITTACAGTQTAVIT, MH+ 2327.5424, m/z 1164.2748
 CIITA_012610_run1.4913.4913.2.dta

scan 0; 1.0e+003



click image to zoom in; click top corners to zoom out

b ⁺	#	AA	#	y ⁺	y ²⁺
88.0852	1	S	24		
187.2163	2	V	23	2240.4651	1120.7365
274.2936	3	S	22	2141.3340	1071.1710
403.4076	4	E	21	2054.2567	1027.6323
502.5386	5	V	20	1925.1428	963.0754
559.5900	6	G	19	1826.0117	913.5098
660.6938	7	T	18	1768.9604	884.9842
788.8231	8	Q	17	1667.8565	834.4322
889.9269	9	T	16	1539.7273	770.3676
977.0042	10	S	15	1438.6234	719.8157
1090.1619	11	I	14	1351.5461	676.2770
1191.2658	12	T	13	1238.3885	619.6982
1292.3696	13	T	12	1137.2846	569.1463
1363.4475	14	R	11	1036.1807	518.5943
1466.5904	15	C	10	965.1028	483.0554
1537.6683	16	R	9	861.9599	431.4839
1594.7197	17	G	8	790.8820	395.9450
1695.8235	18	T	7	733.8307	367.4193
1823.9528	19	Q	6	632.7268	316.8674
1925.0566	20	T	5	504.5976	252.8028
1996.1345	21	R	4	403.4937	202.2508
2095.2656	22	V	3	332.4158	166.7119
2208.4232	23	I	2	233.2847	117.1463
	24	T	1	120.1271	60.5675

ILSHFEKLEPQAAVVKALGEL

X-range:

0 - 0

MassTol: Y-zoom:

0.950 1.00

MassType:

AVG MONO

Axis:

1 2

Label:

I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

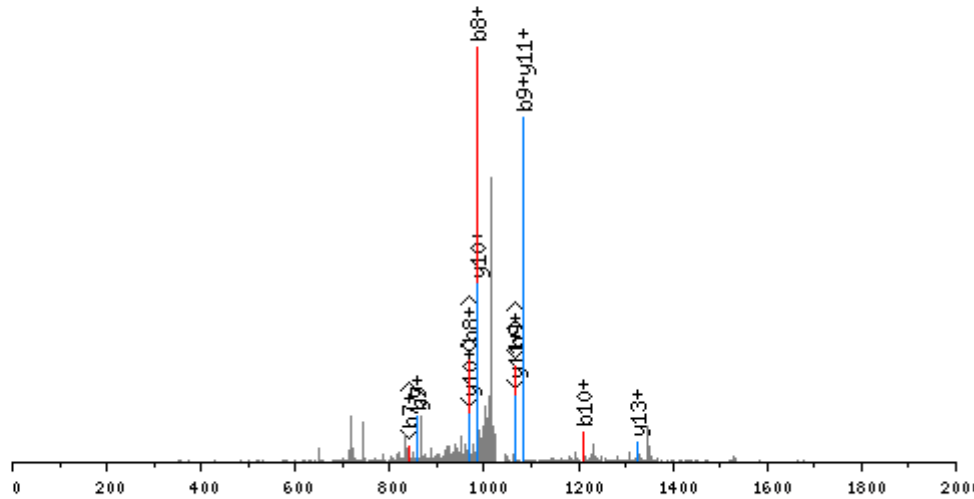
hide H₂O/NH₃

zoom 112-122

GO

LSHFEEKLEPQAAVVKALGE, MH+ 2067.3646, m/z 1034.1859
CIITA_122309_run1.7442.7442.2.dta

scan 0; 1.9e+003



click image to zoom in; click top corners to zoom out

b ⁺	#	AA	#	y ⁺	y ²⁺
114.1656	1	L	19		
201.2429	2	S	18	1954.2070	977.6075
338.3822	3	H	17	1867.1297	934.0688
485.5560	4	F	16	1729.9904	865.4992
614.6700	5	E	15	1582.8165	791.9122
742.8423	6	K	14	1453.7026	727.3552
855.9999	7	L	13	1325.5303	663.2691
985.1139	8	E	12	1212.3726	606.6903
1082.2291	9	P	11	1083.2587	542.1333
1210.3583	10	Q	10	986.1435	493.5757
1281.4362	11	R	9	858.0143	429.5111
1352.5141	12	R	8	786.9364	393.9721
1451.6452	13	V	7	715.8585	358.4332
1550.7762	14	V	6	616.7274	308.8677
1678.9485	15	K	5	517.5963	259.3021
1750.0264	16	R	4	389.4241	195.2160
1863.1840	17	L	3	318.3462	159.6770
1920.2354	18	G	2	205.1885	103.0982
	19	E	1	148.1372	74.5726

KSIRDTPAKNAQKS

X-range:
 -

MassTol: **Y-zoom:**

MassType:
 AVG MONO

Axis:
 1 2

Label:
 I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

x + 2+ 3+

y + 2+ 3+

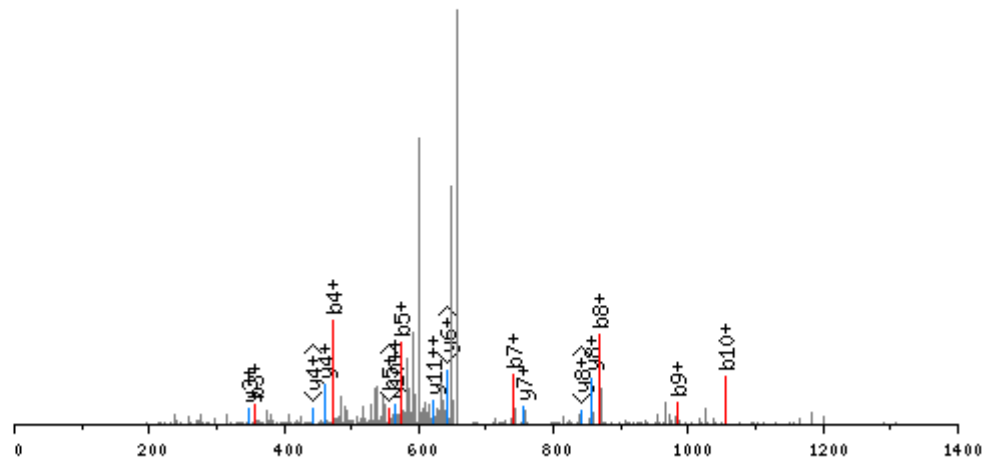
z + 2+ 3+

hide H₂O/NH₃

zoom 112-122

SIRDTPAKNAQK, MH+ 1329.4825, m/z 665.2449
 sir32_010810_run2.3893.3893.2.dta

scan 0; 9.6e+02



click image to zoom in; click top corners to zoom out

b ⁺	#	AA	#	y ⁺	y ²⁺
88.0852	1	S	12		
201.2429	2	I	11	1242.4052	621.7066
357.4286	3	R	10	1129.2476	565.1278
472.5160	4	D	9	973.0619	487.0349
573.6198	5	T	8	857.9745	429.4912
670.7350	6	P	7	756.8706	378.9393
741.8129	7	A	6	659.7554	330.3817
869.9852	8	K	5	588.6775	294.8427
984.0878	9	N	4	460.5053	230.7566
1055.1657	10	A	3	346.4026	173.7053
1183.2950	11	Q	2	275.3247	138.1663
	12	K	1	147.1955	74.1017

NDALINQKYDEVMTYILLGR

X-range:

0 - 0

MassTol: Y-zoom:

0.950 1.00

MassType:

AVG MONO

Axis:

1 2

Label:

I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

hide H₂O/NH₃

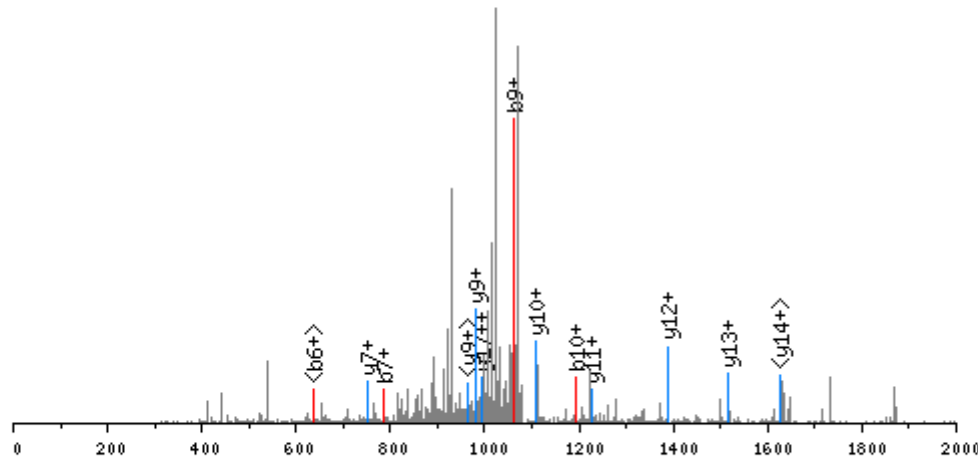
zoom 112-122

GO

DALINQKYDEVMTYILLG, MH+ 2171.4890, m/z 1086.2481

CIITA_122309_run2.6088.6088.2.dta

scan 0; 9.3e+002



click image to zoom in; click top corners to zoom out

b ⁺	#	AA	#	y ⁺	y ²⁺
116.0953	1	D	19		
187.1732	2	R	18	2056.4016	1028.7048
300.3309	3	L	17	1985.3237	993.1658
413.4885	4	I	16	1872.1660	936.5870
527.5912	5	N	15	1759.0084	880.0082
655.7204	6	Q	14	1644.9058	822.9568
783.8927	7	K	13	1516.7765	758.8922
947.0659	8	Y	12	1388.6043	694.8061
1062.1533	9	D	11	1225.4310	613.2195
1191.2673	10	E	10	1110.3436	555.6758
1290.3984	11	V	9	981.2296	491.1188
1421.5944	12	M	8	882.0986	441.5532
1492.6723	13	R	7	750.9025	375.9552
1593.7762	14	T	6	679.8246	340.4163
1756.9495	15	Y	5	578.7207	289.8643
1870.1071	16	I	4	415.5475	208.2777
1983.2647	17	L	3	302.3898	151.6989
2096.4224	18	L	2	189.2322	95.1201
	19	G	1	76.0745	38.5412

RMKLPKPPKPVSKMRM

X-range:

0 - 0

MassTol: Y-zoom:

0.950 1.00

MassType:

AVG MONO

Axis:

1 2

Label:

I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

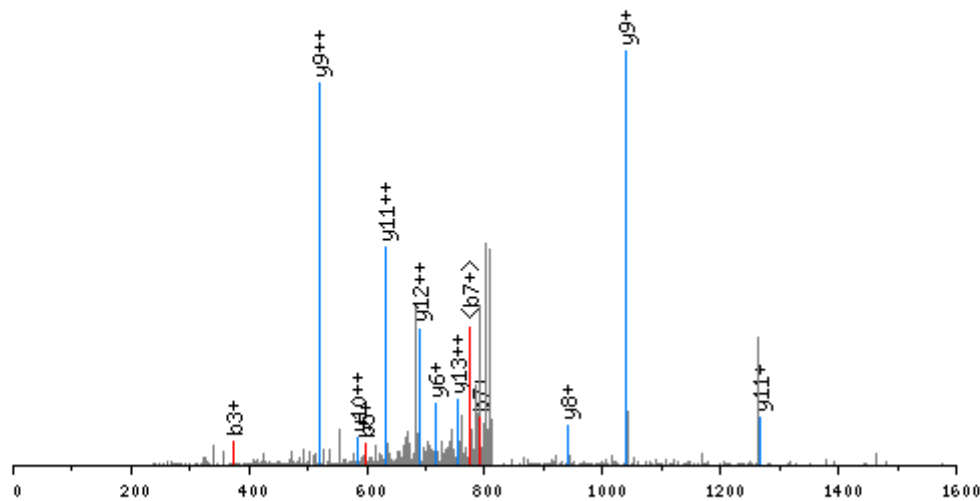
hide H₂O/NH₃

zoom 112-122

GO

MKLPKPPKPVSKMR, MH+ 1638.1169, m/z 819.5621
 CIITA_012610_run1.5638.5638.2.dta

scan 0; 7.8e+002



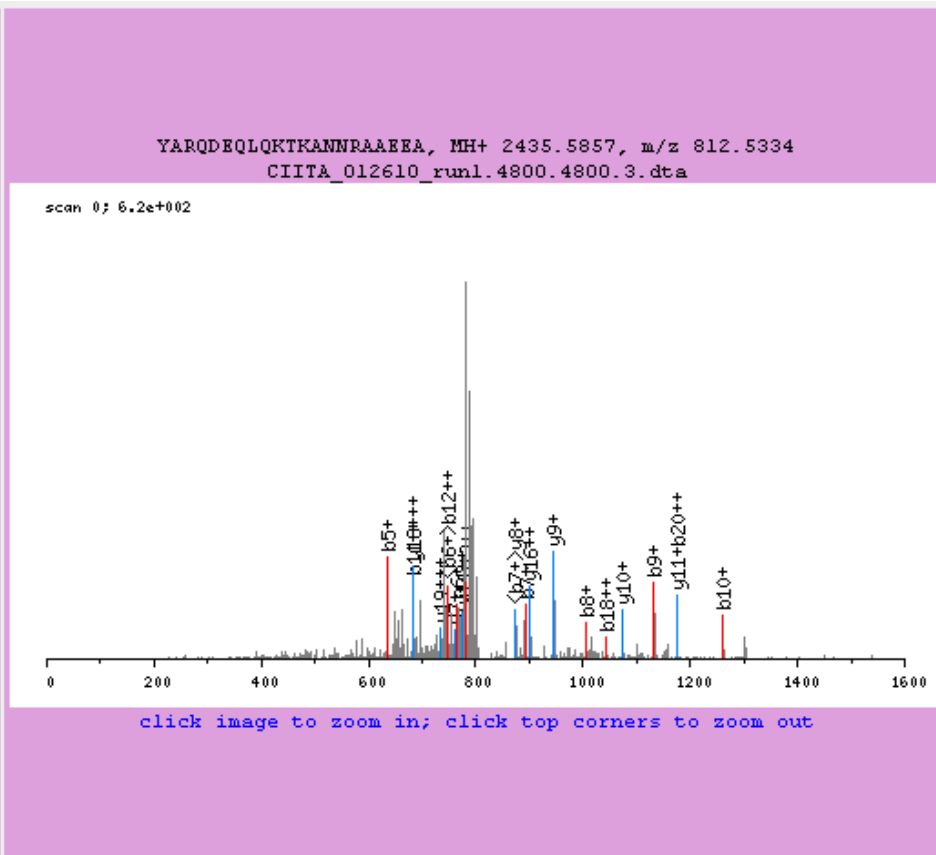
click image to zoom in; click top corners to zoom out

b ⁺	#	AA	#	y ⁺	y ²⁺
132.2040	1	M	14		
260.3763	2	K	13	1506.9208	753.9644
373.5339	3	L	12	1378.7485	689.8782
470.6491	4	P	11	1265.5909	633.2994
598.8214	5	K	10	1168.4757	584.7418
695.9366	6	P	9	1040.3034	520.6557
793.0517	7	P	8	943.1882	472.0981
921.2240	8	K	7	846.0731	423.5405
1018.3392	9	P	6	717.9008	359.4544
1117.4703	10	V	5	620.7856	310.8968
1204.5476	11	S	4	521.6545	261.3312
1332.7198	12	K	3	434.5772	217.7926
1463.9159	13	M	2	306.4050	153.7064
	14	R	1	175.2089	88.1084

WYARQDEQLQKTKANNRAAEAF

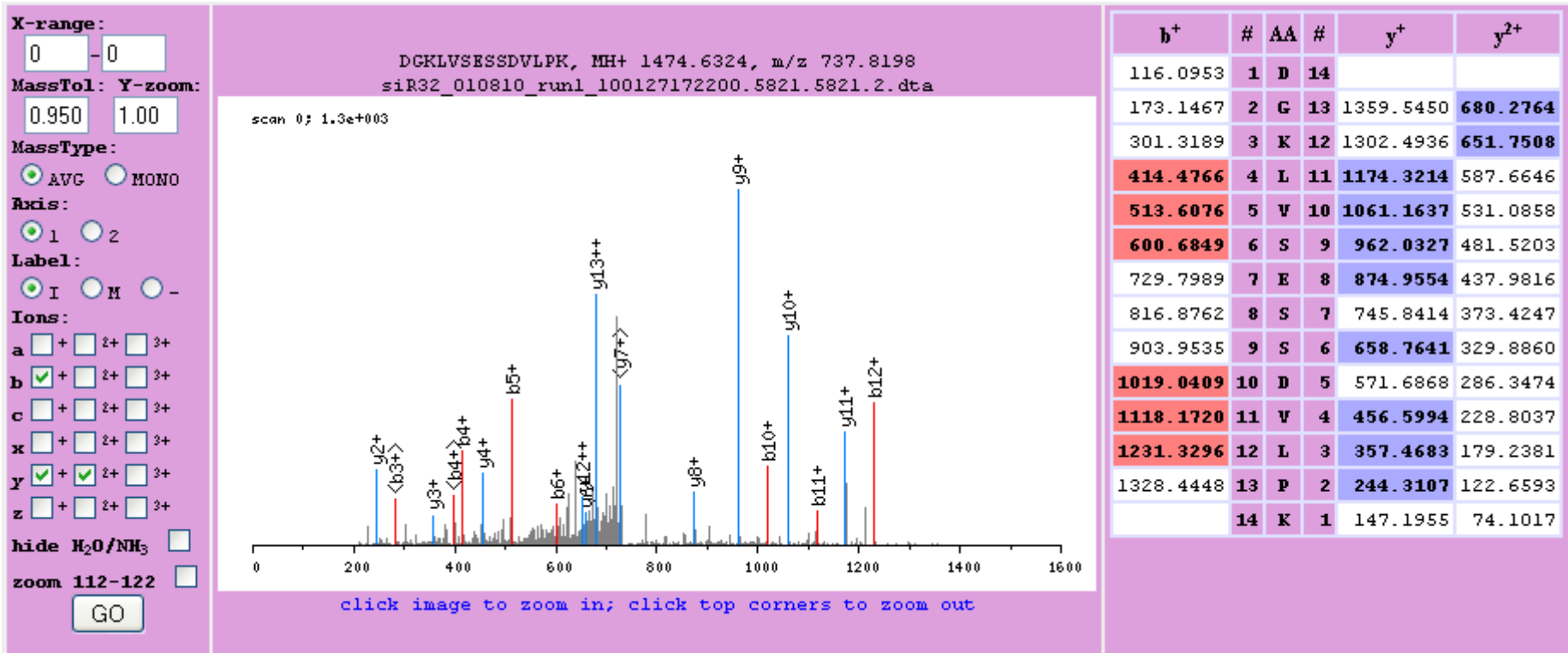
X-range:
 -
MassTol: **Y-zoom:**

MassType:
 AVG MONO
Axis:
 1 2
Label:
 I M -
Ions:
a + 2+ 3+
b + 2+ 3+
c + 2+ 3+
x + 2+ 3+
y + 2+ 3+
z + 2+ 3+
hide H_2O/NH_3
zoom 112-122



b ⁺	b ²⁺	#	AA	#	y ⁺	y ²⁺	y ³⁺
164.1812	82.5946	1	Y	21			
235.2591	118.1335	2	R	20	2272.4124	1136.7102	758.1428
391.4448	196.2264	3	R	19	2201.3345	1101.1712	734.4501
519.5740	260.2910	4	Q	18	2045.1489	1023.0784	682.3882
634.6614	317.8347	5	D	17	1917.0196	959.0138	639.6785
763.7754	382.3917	6	E	16	1801.9322	901.4701	601.3160
891.9046	446.4563	7	Q	15	1672.8183	836.9131	558.2780
1005.0622	503.0351	8	L	14	1544.6890	772.8485	515.5683
1133.1915	567.0997	9	Q	13	1431.5314	716.2697	477.8491
1261.3637	631.1858	10	K	12	1303.4022	652.2051	435.1394
1362.4676	681.7378	11	T	11	1175.2299	588.1189	392.4153
1490.6399	745.8239	12	K	10	1074.1260	537.5670	358.7140
1561.7178	781.3629	13	R	9	945.9537	473.4808	315.9899
1675.8204	838.4142	14	N	8	874.8758	437.9419	292.2972
1789.9231	895.4655	15	N	7	760.7732	380.8906	254.2630
1946.1088	973.5584	16	R	6	646.6706	323.8393	216.2288
2017.1867	1009.0973	17	R	5	490.4849	245.7464	164.1669
2088.2646	1044.6363	18	R	4	419.4070	210.2075	140.4743
2217.3785	1109.1932	19	E	3	348.3291	174.6685	116.7817
2346.4925	1173.7502	20	E	2	219.2151	110.1115	73.7437
		21	R	1	90.1011	45.5545	30.7057

RDGKLVSESSDVLPK



FAQIHEMQDLGDKLRMI

X-range:

0 - 0

MassTol: Y-zoom:

0.950 1.00

MassType:

AVG MONO

Axis:

1 2

Label:

I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

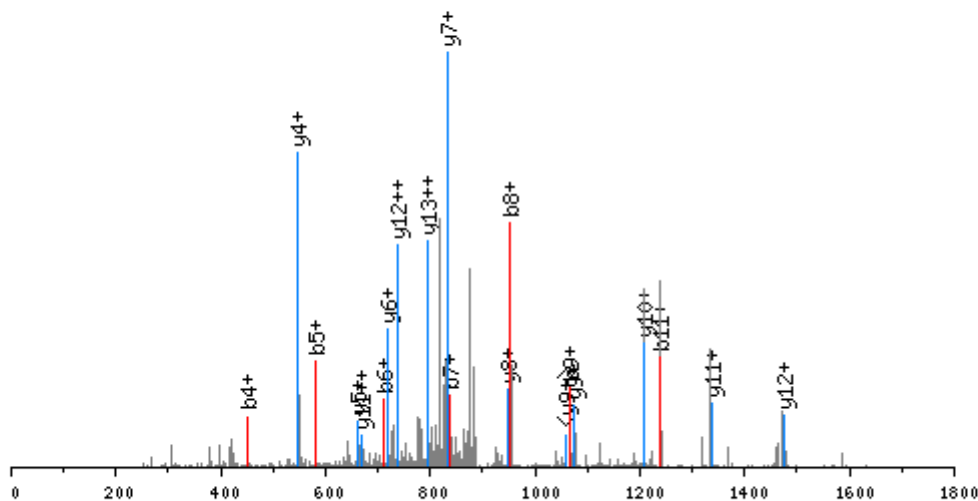
hide H₂O/NH₃

zoom 112-122

GO

FAQIHEMQDLGDKLRM, MH+ 1786.0619, m/z 893.5346
 CIITA_012610_run1.6566.6566.2.dta

scan 0; 1.4e+003

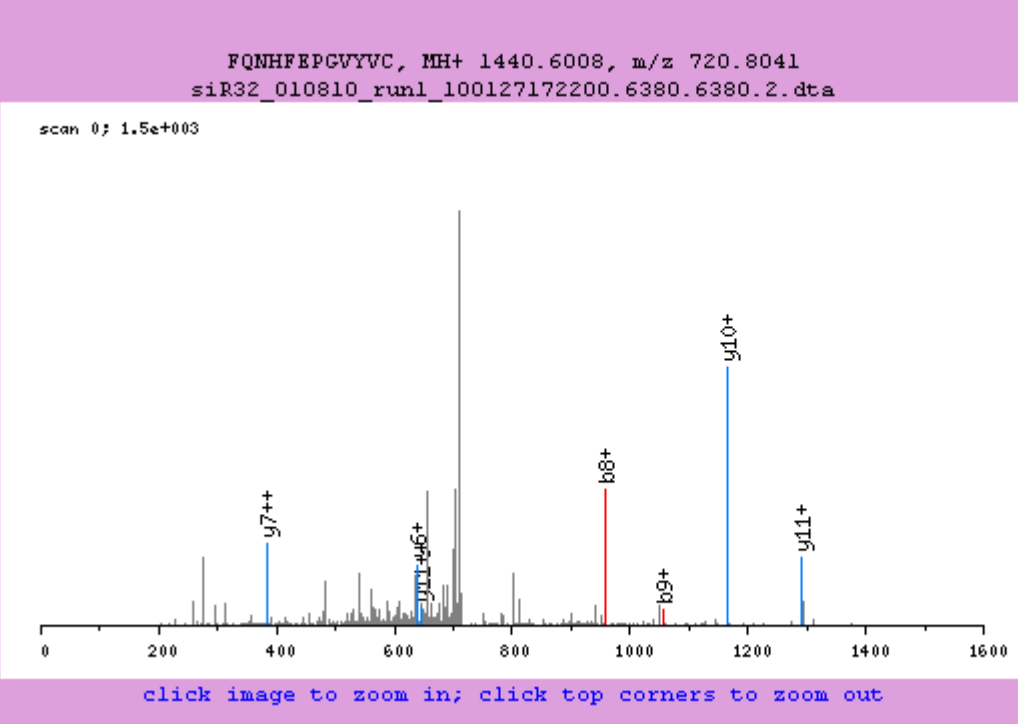


click image to zoom in; click top corners to zoom out

b ⁺	#	AA	#	y ⁺	y ²⁺
72.0858	1	A	15		
200.2151	2	Q	14	1714.9840	857.9960
313.3727	3	I	13	1586.8548	793.9314
450.5120	4	H	12	1473.6972	737.3526
579.6260	5	E	11	1336.5579	668.7829
710.8220	6	M	10	1207.4439	604.2259
838.9512	7	Q	9	1076.2479	538.6279
954.0386	8	D	8	948.1186	474.5633
1067.1963	9	L	7	833.0312	417.0196
1124.2476	10	G	6	719.8736	360.4408
1239.3350	11	D	5	662.8223	331.9151
1367.5073	12	K	4	547.7349	274.3714
1480.6649	13	L	3	419.5626	210.2853
1636.8506	14	R	2	306.4050	153.7064
	15	M	1	150.2193	75.6136

VFQNHFEFGVYVCA

X-range:
 -
MassTol: **Y-zoom:**
MassType:
 AVG MONO
Axis:
 1 2
Label:
 I M -
Ions:
a + 2+ 3+
b + 2+ 3+
c + 2+ 3+
x + 2+ 3+
y + 2+ 3+
z + 2+ 3+
hide H₂O/NH₃
zoom 112-122



b ⁺	#	AA	#	y ⁺	y ²⁺
148.1818	1	F	12		
276.3110	2	Q	11	1293.4270	647.2175
390.4137	3	N	10	1165.2978	583.1529
527.5529	4	H	9	1051.1951	526.1015
674.7268	5	F	8	914.0558	457.5319
803.8408	6	E	7	766.8820	383.9450
900.9560	7	P	6	637.7680	319.3880
958.0073	8	G	5	540.6528	270.8304
1057.1383	9	V	4	483.6015	242.3047
1220.3116	10	Y	3	384.4704	192.7392
1319.4427	11	V	2	221.2972	111.1526
	12	C	1	122.1661	61.5870

RSKALKASAPAPGHH

X-range:
 -

MassTol: **Y-zoom:**

MassType:
 AVG MONO

Axis:
 1 2

Label:
 I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

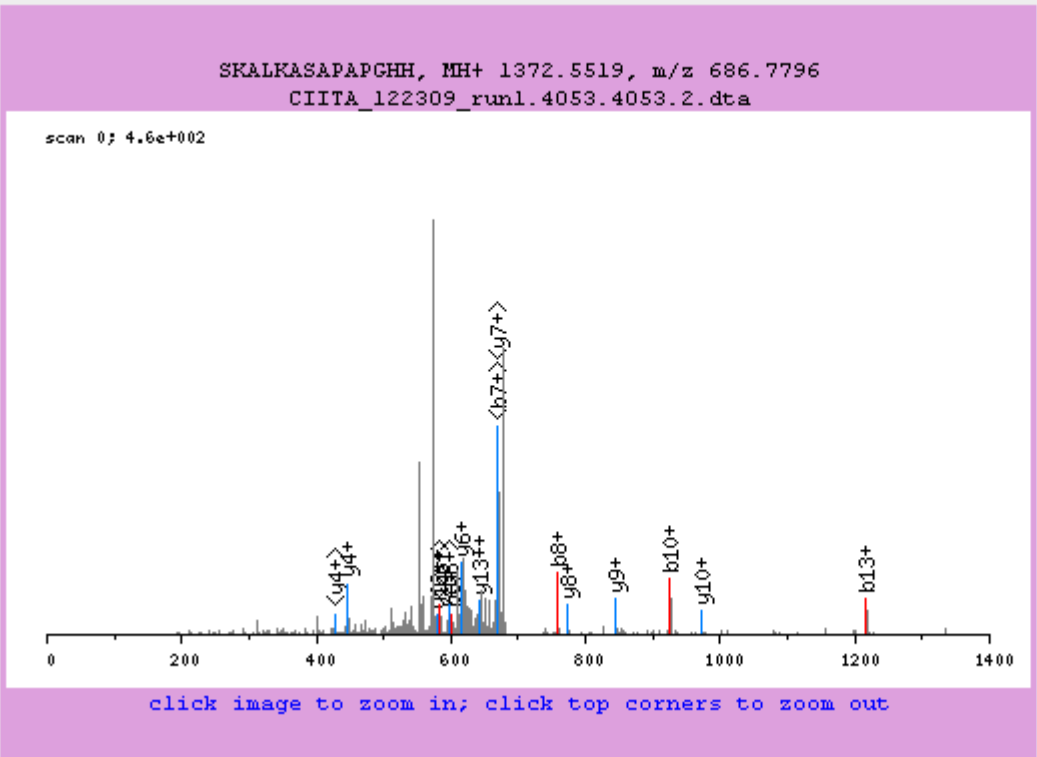
x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

hide H₂O/NH₃

zoom 112-122



b ⁺	#	AA	#	y ⁺	y ²⁺
88.0852	1	S	14		
216.2575	2	K	13	1285.4746	643.2413
287.3354	3	R	12	1157.3023	579.1551
400.4931	4	L	11	1086.2244	543.6162
528.6653	5	K	10	973.0667	487.0373
599.7432	6	R	9	844.8945	422.9512
686.8205	7	S	8	773.8166	387.4123
757.8984	8	R	7	686.7393	343.8736
855.0136	9	P	6	615.6614	308.3347
926.0915	10	R	5	518.5462	259.7771
1023.2067	11	P	4	447.4683	224.2381
1080.2580	12	G	3	350.3531	175.6805
1217.3973	13	H	2	293.3018	147.1549
	14	H	1	156.1625	78.5852

VFDKEGNGTVMGAEIRHVL

X-range:

0 - 0

MassTol: Y-zoom:

0.950 1.00

MassType:

AVG MONO

Axis:

1 2

Label:

I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

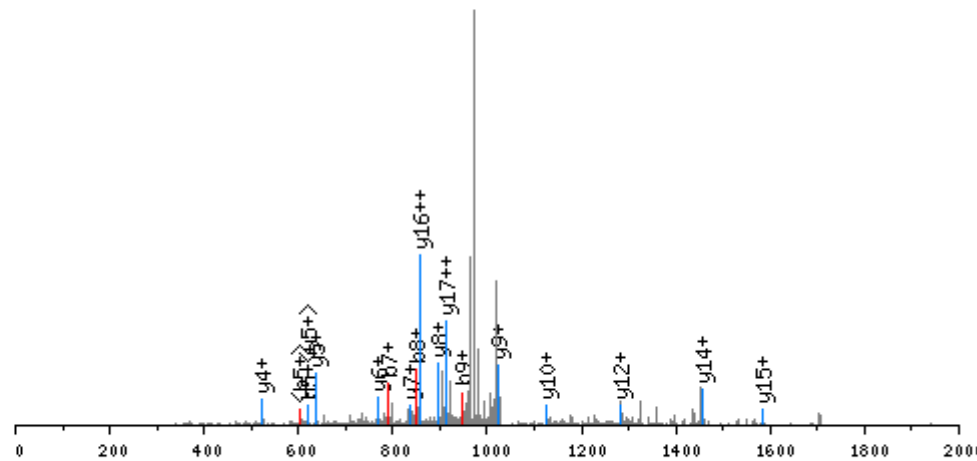
hide H₂O/NH₃

zoom 112-122

GO

VFDKEGNGTVMGAEIRHVL, MH+ 2073.3526, m/z 1037.1799
CIITA_012610_run1.6981.6981.2.dta

scan 0; 2.6e+003



click image to zoom in; click top corners to zoom out

b ⁺	#	AA	#	y ⁺	y ²⁺
100.1390	1	V	19		
247.3129	2	F	18	1974.2215	987.6147
362.4003	3	D	17	1827.0477	914.0278
490.5725	4	K	16	1711.9603	856.4841
619.6865	5	E	15	1583.7880	792.3980
676.7378	6	G	14	1454.6740	727.8410
790.8405	7	N	13	1397.6227	699.3153
847.8918	8	G	12	1283.5200	642.2640
948.9957	9	T	11	1226.4687	613.7383
1048.1267	10	V	10	1125.3648	563.1864
1179.3228	11	M	9	1026.2338	513.6209
1236.3741	12	G	8	895.0377	448.0228
1307.4520	13	R	7	837.9864	419.4972
1436.5660	14	E	6	766.9085	383.9582
1549.7236	15	I	5	637.7945	319.4012
1705.9093	16	R	4	524.6369	262.8224
1843.0486	17	H	3	368.4512	184.7296
1942.1797	18	V	2	231.3119	116.1599
	19	L	1	132.1809	66.5944

KIKGDVPSVGLGPDVDLQGPEAKI

X-range:

0 - 0

MassTol: Y-zoom:

0.950 1.00

MassType:

AVG MONO

Axis:

1 2

Label:

I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

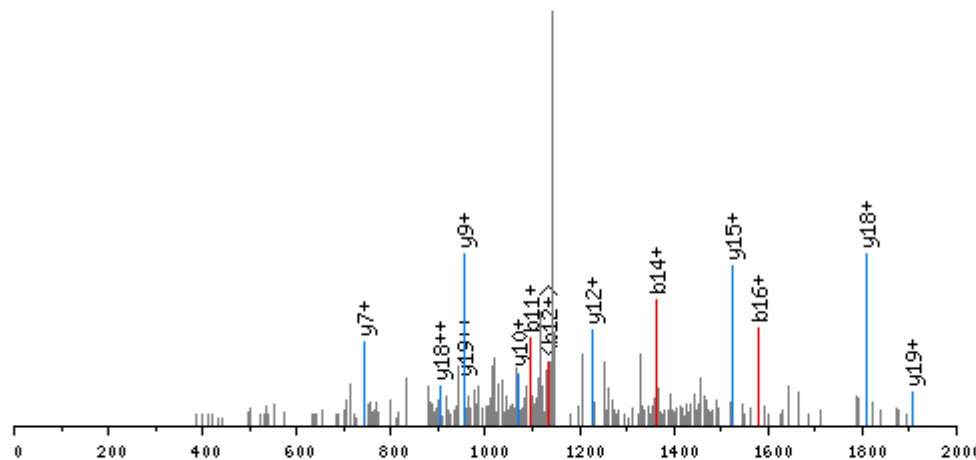
hide H₂O/NH₃

zoom 112-122

GO

IKKGDVPSVGLGPDVDLQGPEAK, MH+ 2320.2036, m/z 1160.6055
 sir32_MHC_pep_111709_2.7114.7114.2.dta

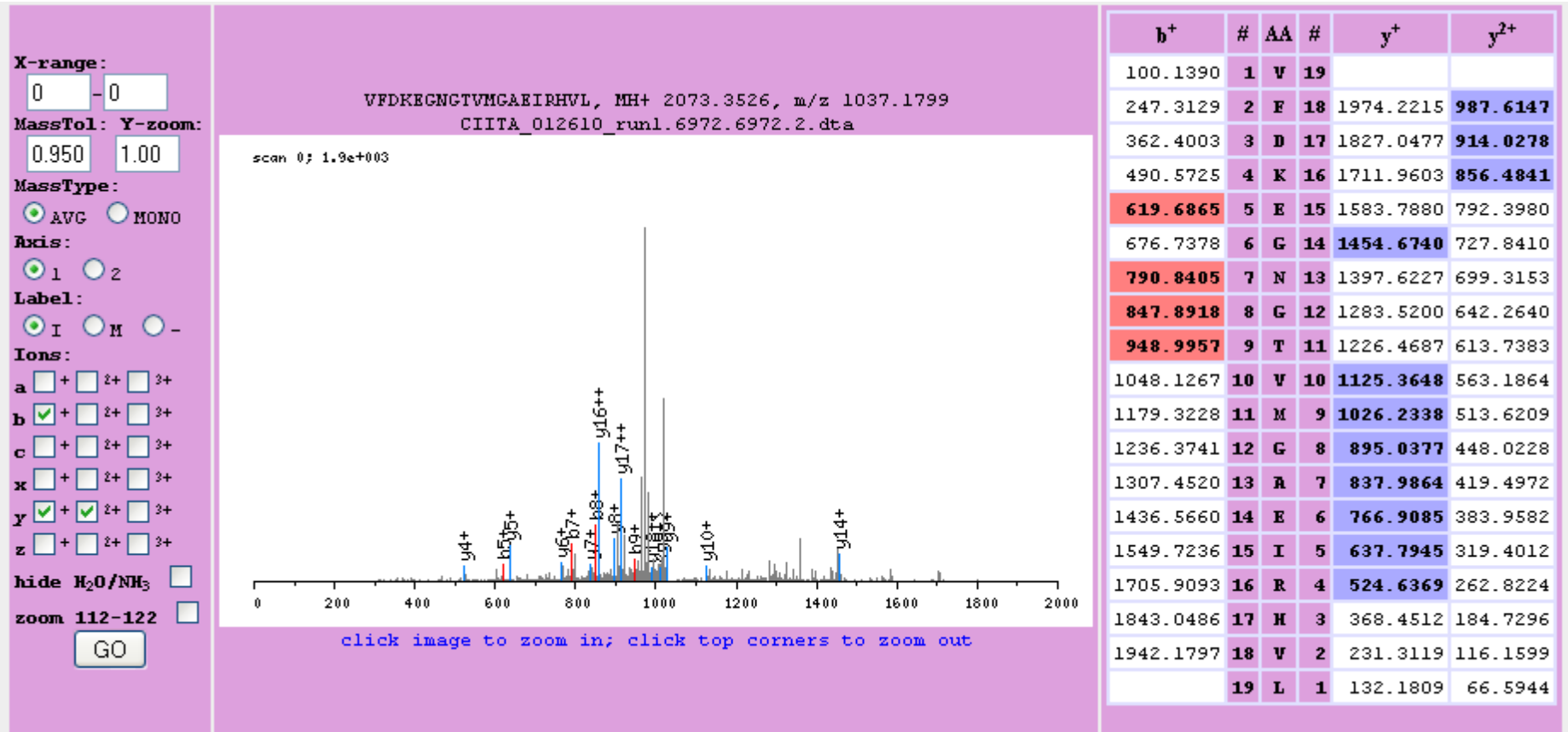
scan 0; 6.6e+001



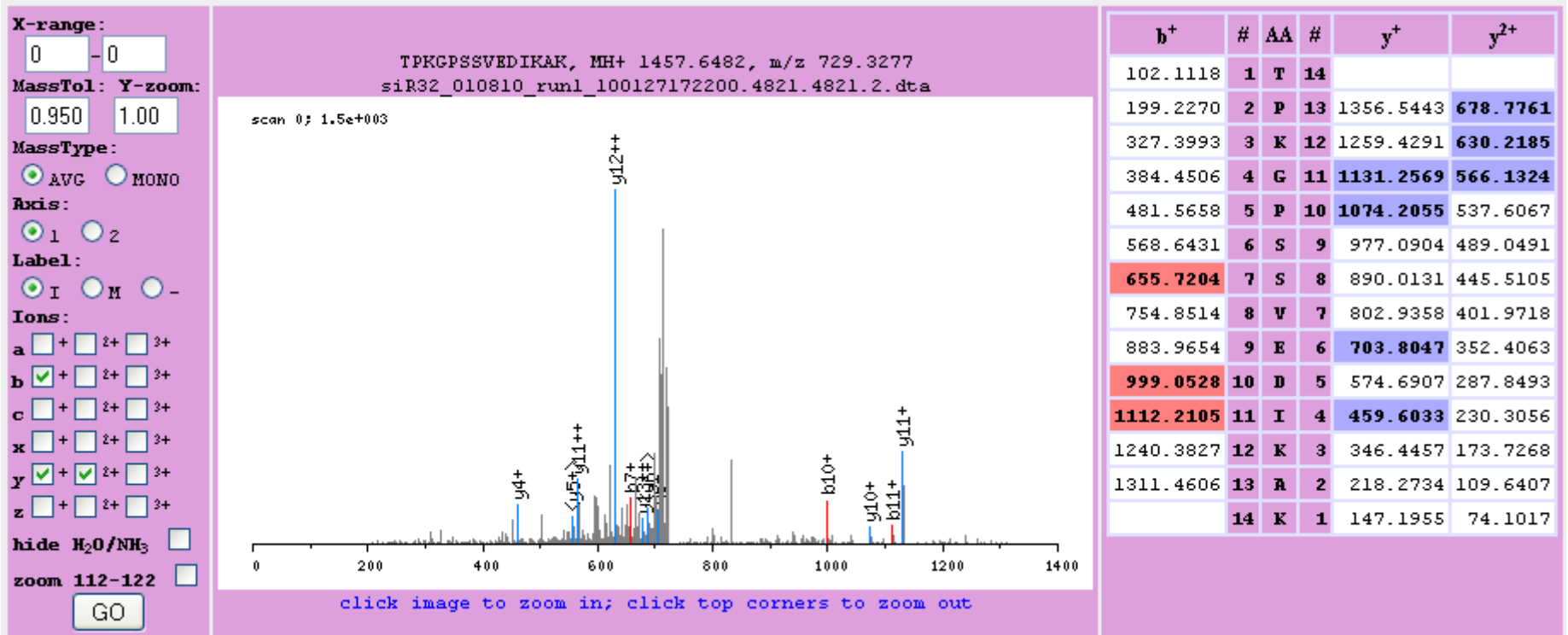
click image to zoom in; click top corners to zoom out

b ⁺	#	AA	#	y ⁺	y ²⁺
114.0919	1	I	23		
242.1869	2	K	22	2207.1196	1104.0637
299.2083	3	G	21	2079.0246	1040.0162
414.2353	4	D	20	2022.0031	1011.5055
513.3037	5	V	19	1906.9762	953.9920
610.3564	6	P	18	1807.9078	904.4578
697.3885	7	S	17	1710.8550	855.9314
796.4569	8	V	16	1623.8230	812.4154
853.4783	9	G	15	1524.7546	762.8812
966.5624	10	L	14	1467.7331	734.3705
1095.6050	11	E	13	1354.6490	677.8284
1152.6265	12	G	12	1225.6065	613.3071
1249.6792	13	P	11	1168.5850	584.7964
1364.7062	14	D	10	1071.5322	536.2700
1463.7746	15	V	9	956.5053	478.7566
1578.8015	16	D	8	857.4369	429.2223
1691.8856	17	L	7	742.4099	371.7089
1819.9442	18	Q	6	629.3259	315.1668
1876.9656	19	G	5	501.2673	251.1376
1974.0184	20	P	4	444.2458	222.6268
2103.0610	21	E	3	347.1931	174.1004
2174.0981	22	R	2	218.1505	109.5791
	23	K	1	147.1134	74.0606

RVFDKEGNGTVMGAEIRHVLV



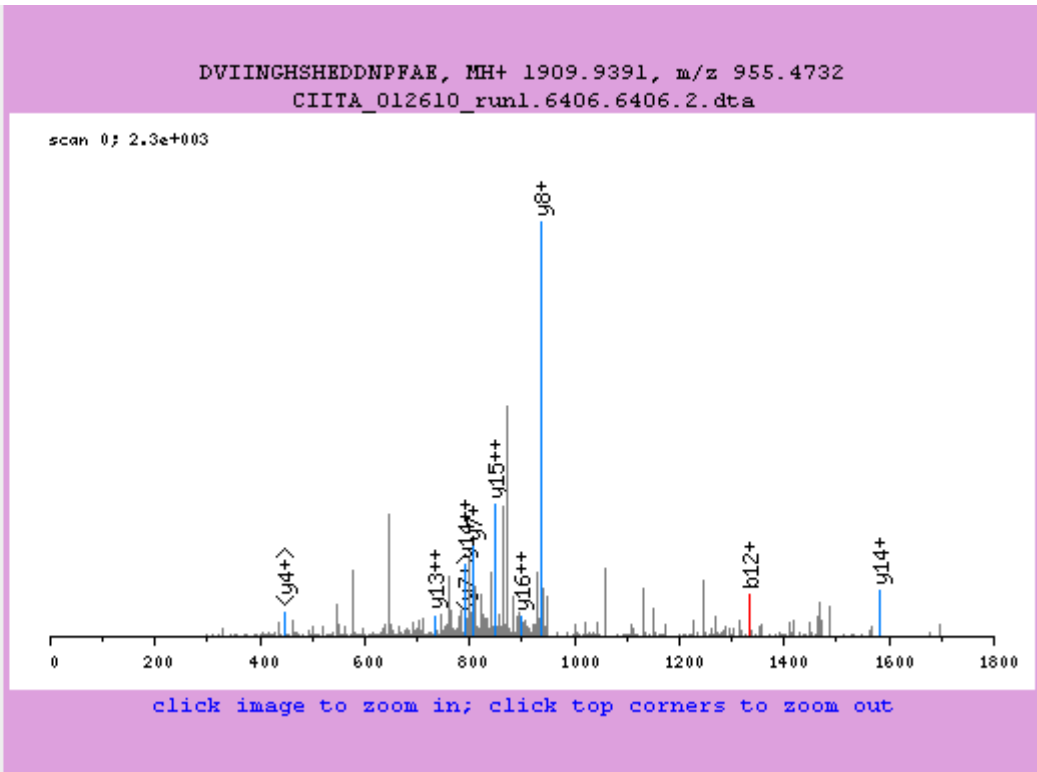
KTPKGPSSVEDIKAKM



EDVIINGHSHEDDNPFAEY

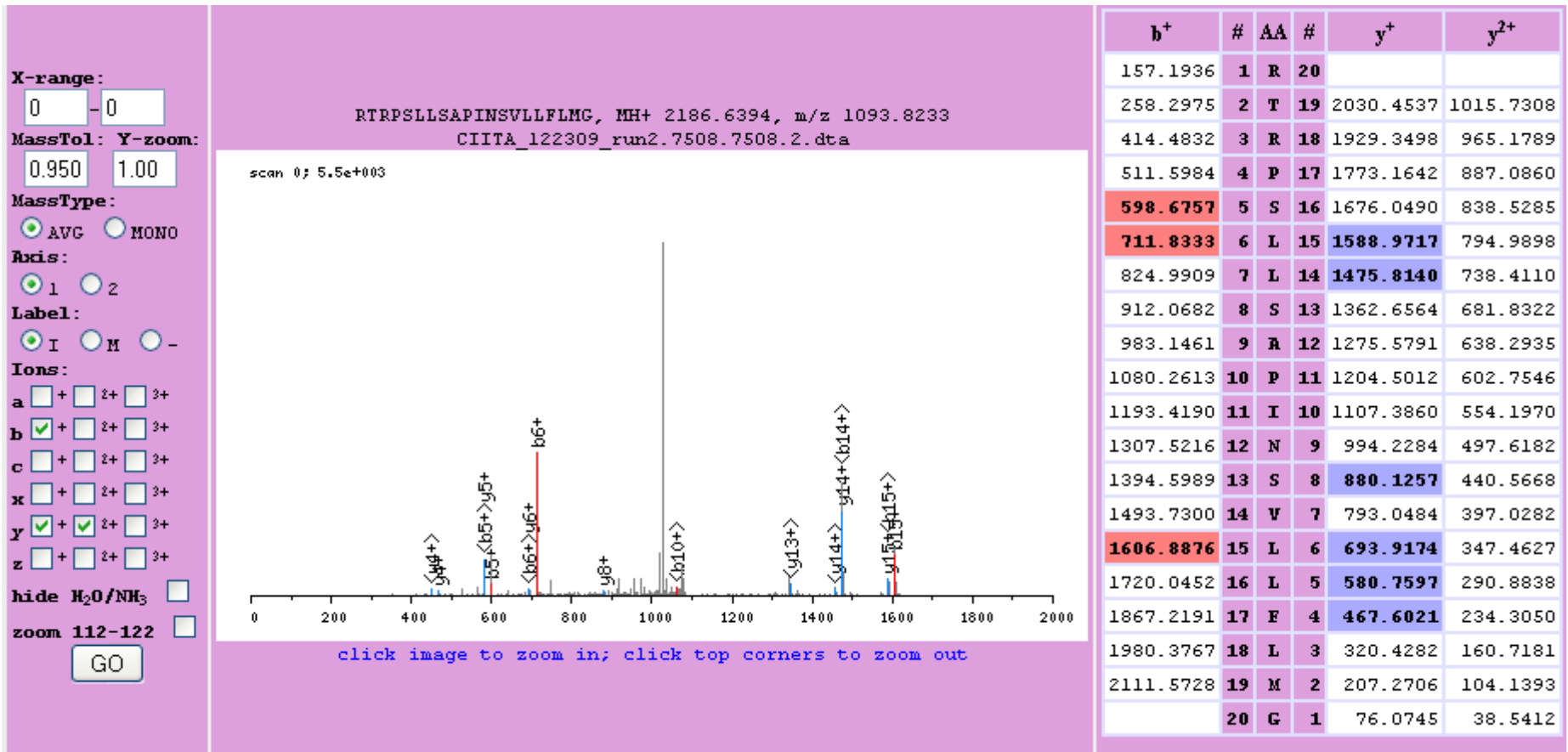
X-range:
 -
MassTol: **Y-zoom:**

MassType:
 AVG MONO
Axis:
 1 2
Label:
 I M -
Ions:
a + 2+ 3+
b + 2+ 3+
c + 2+ 3+
x + 2+ 3+
y + 2+ 3+
z + 2+ 3+
hide H₂O/NH₃
zoom 112-122



b ⁺	#	AA	#	y ⁺	y ²⁺
116.0953	1	D	17		
215.2264	2	V	16	1794.8517	897.9298
328.3840	3	I	15	1695.7207	848.3643
441.5417	4	I	14	1582.5630	791.7855
555.6443	5	N	13	1469.4054	735.2067
612.6956	6	G	12	1355.3027	678.1553
749.8349	7	H	11	1298.2514	649.6297
836.9122	8	S	10	1161.1121	581.0600
974.0515	9	H	9	1074.0348	537.5214
1103.1655	10	E	8	936.8956	468.9518
1218.2529	11	D	7	807.7816	404.3948
1333.3403	12	D	6	692.6942	346.8511
1447.4429	13	N	5	577.6068	289.3074
1544.5581	14	P	4	463.5041	232.2560
1691.7320	15	F	3	366.3890	183.6985
1762.8099	16	R	2	219.2151	110.1115
	17	E	1	148.1372	74.5726

FRT**R**PS**L**L**S**AP**I**NS**V**LL**F**LM**G**M



KEYAIKLLAADAGKPPLNQS

X-range:
 -

MassTol: **Y-zoom:**

MassType:
 AVG MONO

Axis:
 1 2

Label:
 I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

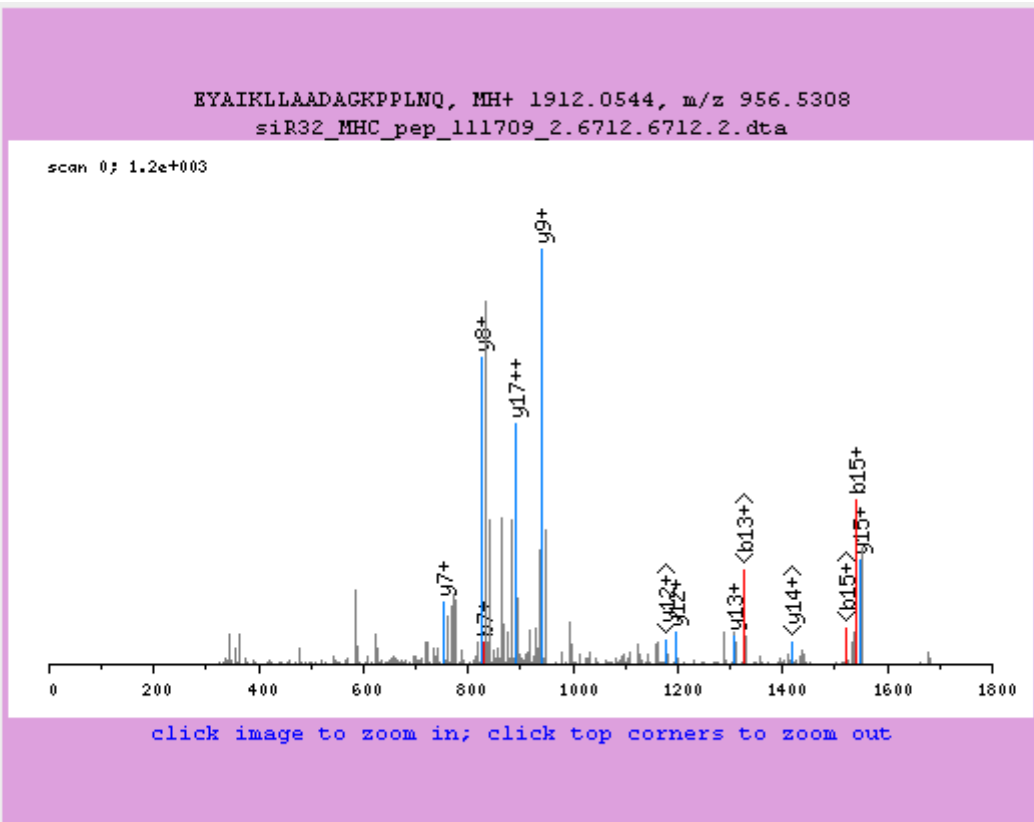
x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

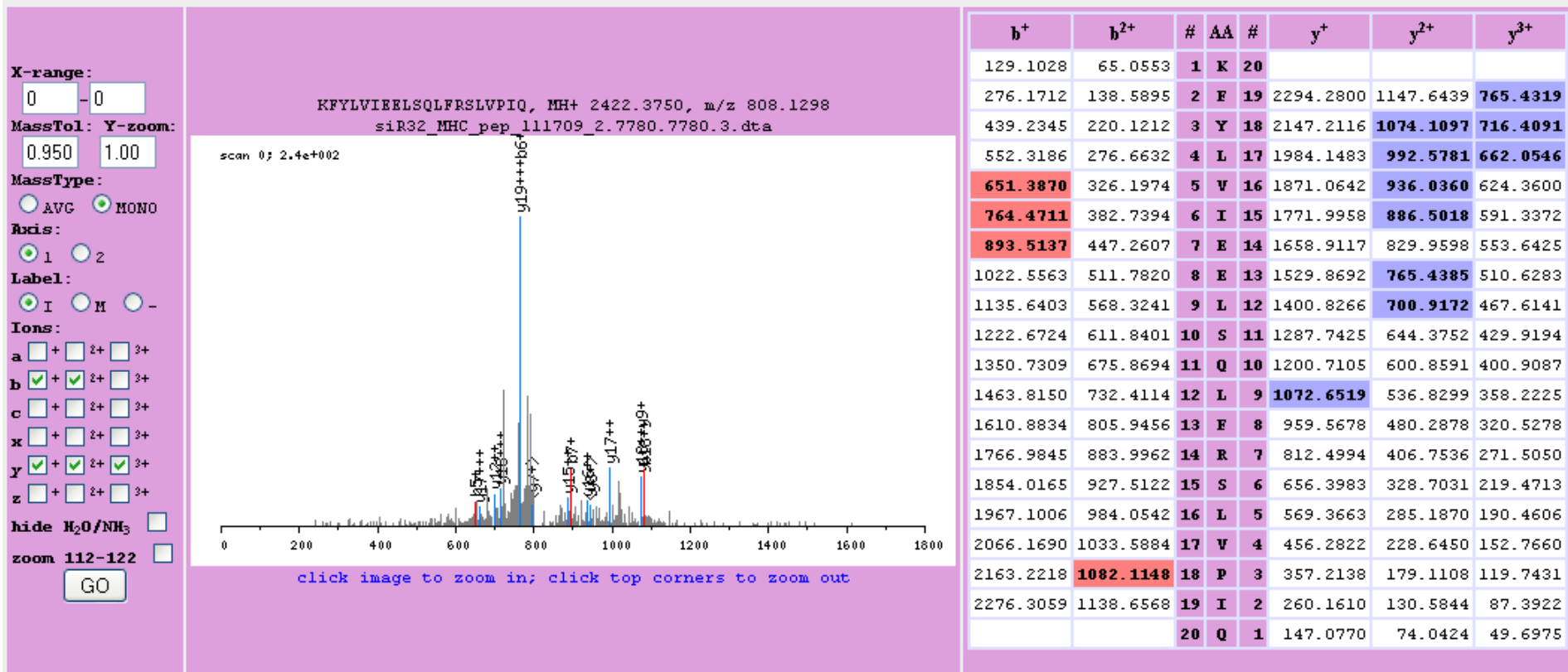
hide H₂O/NH₃

zoom



b ⁺	#	AA	#	y ⁺	y ²⁺
130.0504	1	E	18		
293.1137	2	Y	17	1783.0118	892.0098
364.1509	3	R	16	1619.9485	810.4781
477.2349	4	I	15	1548.9114	774.9596
605.3299	5	K	14	1435.8273	718.4176
718.4140	6	L	13	1307.7323	654.3701
831.4980	7	L	12	1194.6483	597.8280
902.5351	8	R	11	1081.5642	541.2860
973.5722	9	R	10	1010.5271	505.7675
1088.5992	10	D	9	939.4900	470.2489
1159.6363	11	R	8	824.4630	412.7354
1216.6578	12	G	7	753.4259	377.2169
1344.7527	13	K	6	696.4044	348.7061
1441.8055	14	P	5	568.3095	284.6587
1538.8583	15	P	4	471.2567	236.1323
1651.9423	16	L	3	374.2040	187.6059
1765.9852	17	N	2	261.1199	131.0639
	18	Q	1	147.0770	74.0424

GKFYLVIEELSQLFRSLVPIQL



LFDRTGDGKILY

X-range:

0 - 0

MassTol: Y-zoom:

0.950 1.00

MassType:

AVG MONO

Axis:

1 2

Label:

I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

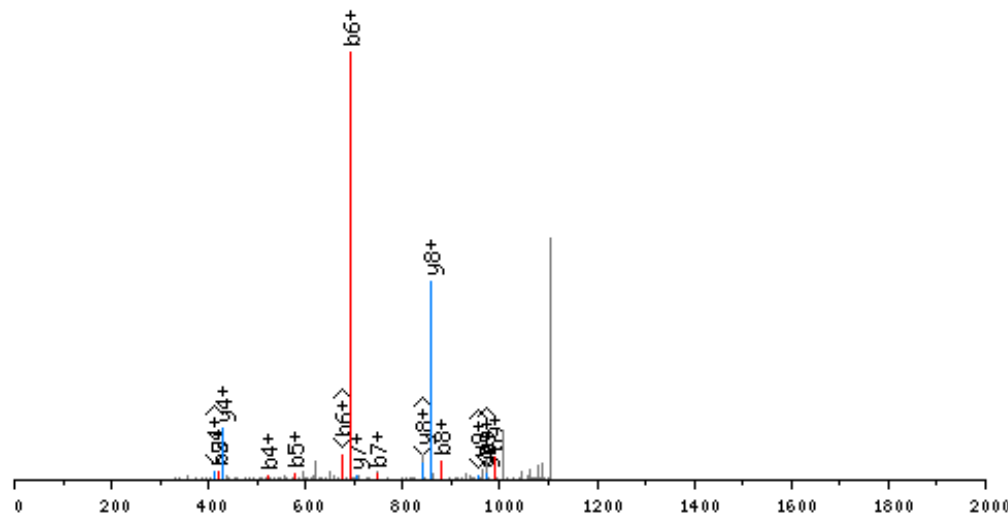
hide H₂O/NH₃

zoom 112-122

GO

FDRTGDGKIL, MH+ 1122.2516, m/z 1122.2516
 CIITA_012610_run2_100126154506.5763.5763.1.dta

scan #: 6.2e+003



click image to zoom in; click top corners to zoom out

b ⁺	#	AA	#	y ⁺
148.1818	1	F	10	
263.2692	2	D	9	975.0778
419.4549	3	R	8	859.9904
520.5588	4	T	7	703.8047
577.6101	5	G	6	602.7008
692.6975	6	D	5	545.6495
749.7488	7	G	4	430.5621
877.9211	8	K	3	373.5108
991.0787	9	I	2	245.3385
	10	L	1	132.1809

LMVTNDGATILKNIGVDNPAAKVLV

X-range: -

MassTol: Y-zoom:

MassType: AVG MONO

Axis: 1 2

Label: I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

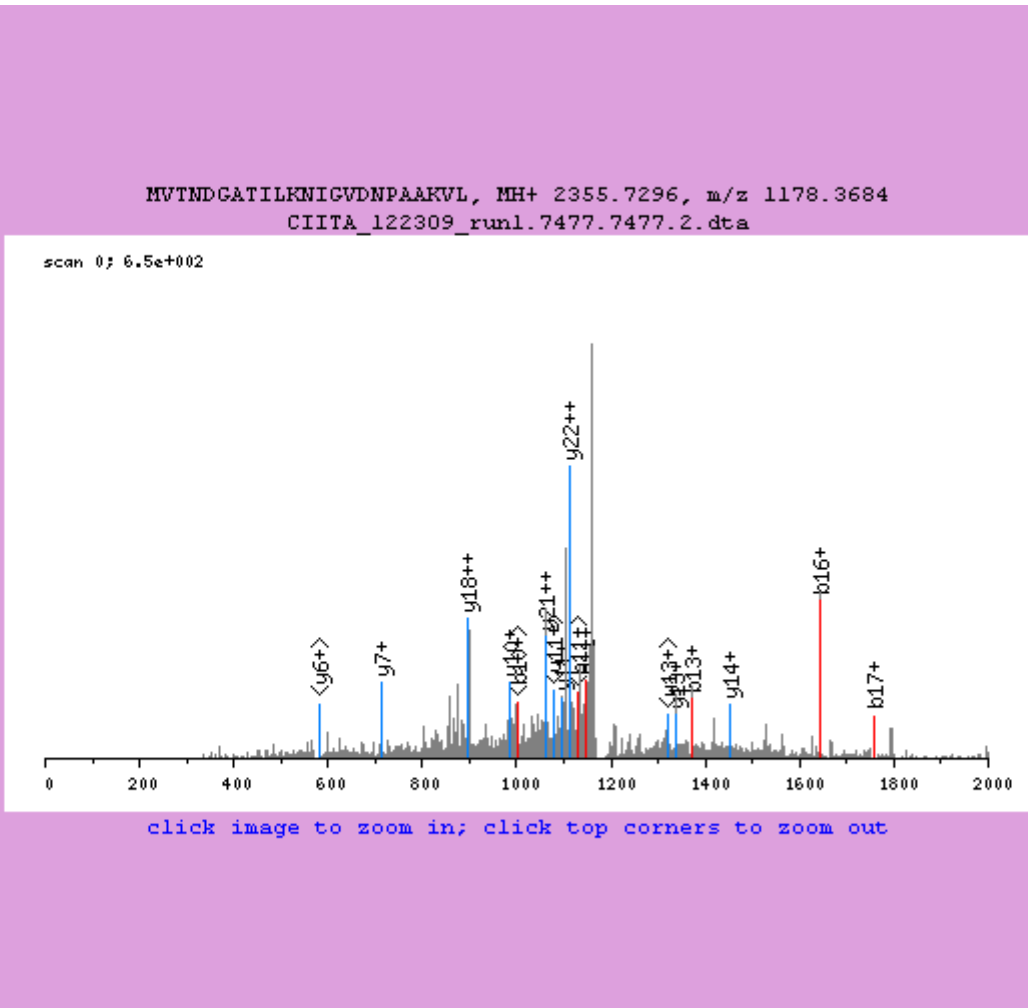
x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

hide H₂O/NH₃

zoom 112-122



b ⁺	#	AA	#	y ⁺	y ²⁺
132.2040	1	M	23		
231.3351	2	V	22	2224.5335	1112.7707
332.4389	3	T	21	2125.4025	1063.2052
446.5416	4	N	20	2024.2986	1012.6533
561.6290	5	D	19	1910.1959	955.6019
618.6803	6	G	18	1795.1085	898.0582
689.7582	7	R	17	1738.0572	869.5326
790.8621	8	T	16	1666.9793	833.9936
904.0197	9	I	15	1565.8754	783.4417
1017.1774	10	L	14	1452.7178	726.8629
1145.3496	11	K	13	1339.5602	670.2840
1259.4523	12	N	12	1211.3879	606.1979
1372.6099	13	I	11	1097.2852	549.1466
1429.6612	14	G	10	984.1276	492.5678
1528.7923	15	V	9	927.0763	464.0421
1643.8797	16	D	8	827.9452	414.4766
1757.9823	17	N	7	712.8578	356.9329
1855.0975	18	P	6	598.7552	299.8816
1926.1754	19	R	5	501.6400	251.3240
1997.2533	20	R	4	430.5621	215.7850
2125.4256	21	K	3	359.4842	180.2461
2224.5567	22	V	2	231.3119	116.1599
	23	L	1	132.1809	66.5944

ELEEALANASDAELCDIAAILGMHTLM

X-range:

0 - 0

MassTol: Y-zoom:

0.950 1.00

MassType:

AVG MONO

Axis:

1 2

Label:

I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

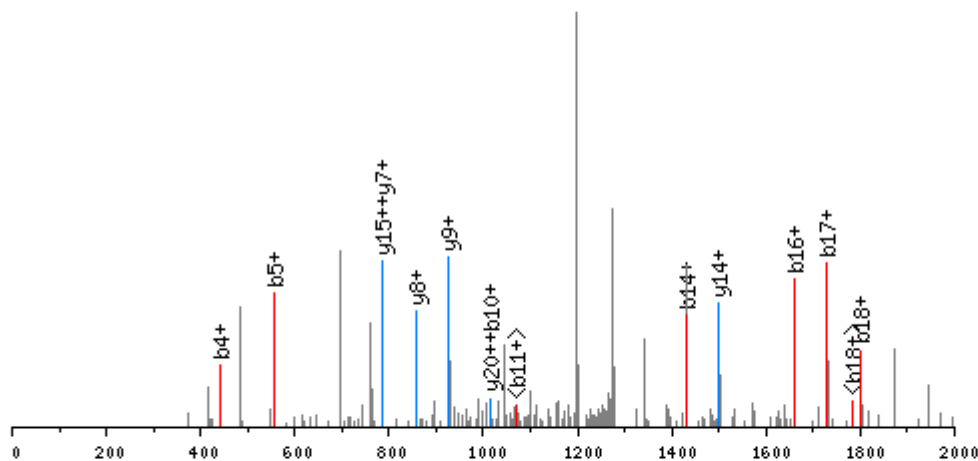
hide H₂O/NH₃

zoom 112-122

GO

LEEEALANASDAELCDIAAILGMHTL, MH+ 2584.2639, m/z 1292.6356
 siR32_MHC_pep_111709_1.7217.7217.2.dta

scan 0; 1.3e+002



click image to zoom in; click top corners to zoom out

b ⁺	#	AA	#	y ⁺	y ²⁺
114.0919	1	L	25		
243.1345	2	E	24	2471.1798	1236.0938
372.1771	3	E	23	2342.1372	1171.5725
443.2142	4	R	22	2213.0946	1107.0512
556.2983	5	L	21	2142.0575	1071.5327
627.3354	6	R	20	2028.9734	1014.9906
741.3783	7	N	19	1957.9363	979.4721
812.4154	8	R	18	1843.8934	922.4506
899.4474	9	S	17	1772.8563	886.9321
1014.4744	10	D	16	1685.8243	843.4160
1085.5115	11	R	15	1570.7973	785.9026
1214.5541	12	E	14	1499.7602	750.3840
1327.6382	13	L	13	1370.7176	685.8627
1430.6473	14	C	12	1257.6335	629.3207
1545.6743	15	D	11	1154.6244	577.8161
1658.7583	16	I	10	1039.5974	520.3026
1729.7955	17	R	9	926.5133	463.7606
1800.8326	18	R	8	855.4762	428.2420
1913.9166	19	I	7	784.4391	392.7235
2027.0007	20	L	6	671.3551	336.1814
2084.0222	21	G	5	558.2710	279.6394
2215.0626	22	M	4	501.2495	251.1287
2352.1216	23	H	3	370.2090	185.6084
2453.1692	24	T	2	233.1501	117.0790
	25	L	1	132.1025	66.5551

FFSETGAGKHVPRAV FV

X-range:
 -

MassTol: **Y-zoom:**

MassType:
 AVG MONO

Axis:
 1 2

Label:
 I M -

Ions:

a + 2+ 3+

b + 2+ 3+

c + 2+ 3+

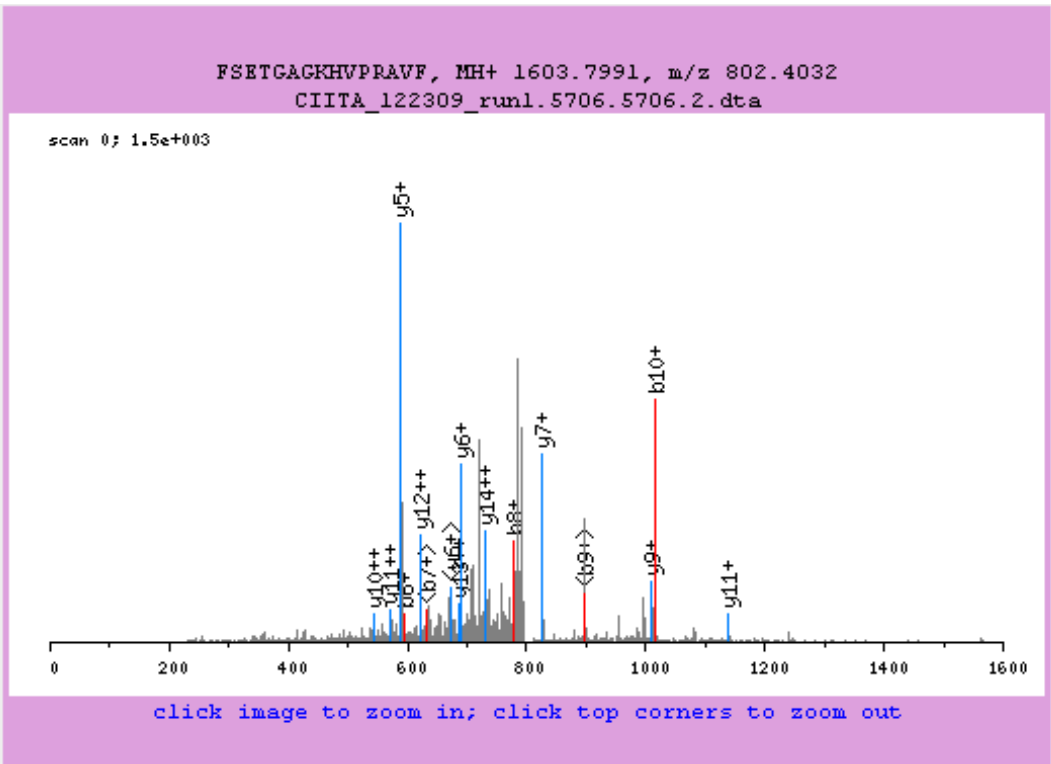
x + 2+ 3+

y + 2+ 3+

z + 2+ 3+

hide H₂O/NH₃

zoom 112-122



b ⁺	#	AA	#	y ⁺	y ²⁺
148.1818	1	F	15		
235.2591	2	S	14	1456.6252	728.8166
364.3731	3	E	13	1369.5479	685.2779
465.4770	4	T	12	1240.4339	620.7209
522.5283	5	G	11	1139.3301	570.1690
593.6062	6	R	10	1082.2787	541.6433
650.6575	7	G	9	1011.2008	506.1044
778.8298	8	K	8	954.1495	477.5787
915.9691	9	H	7	825.9772	413.4926
1015.1001	10	V	6	688.8380	344.9230
1112.2153	11	P	5	589.7069	295.3574
1268.4010	12	R	4	492.5917	246.7998
1339.4789	13	R	3	336.4060	168.7070
1438.6099	14	V	2	265.3281	133.1680
	15	F	1	166.1971	83.6025