

BREAST	HPO42-	hco3-	H+	LI(6)	LI (7)	OH 27	H30 19	Mg 24
181.821	21.032978	26.74465	0.438316	2.629897	3.068213	7.451375	8.328008	5.259794
414.817	47.98586	61.0168	1	6	7	17	19	12
430.439	49.793006	63.31469	1.03766	6.22596	7.26362	17.64022	19.71554	12.45192
628.431	72.696639	92.43799	1.51496	9.089758	10.60472	25.75431	28.78423	18.17952
655.435	75.820451	96.4101	1.580058	9.48035	11.06041	26.86099	30.02111	18.9607
677.972	78.427522	99.72514	1.634388	9.80633	11.44072	27.7846	31.05338	19.61266
721.313	83.441191	106.1003	1.73887	10.43322	12.17209	29.5608	33.03854	20.86645
752.933	87.098979	110.7514	1.815097	10.89058	12.70568	30.85665	34.48684	21.78116
813.205	94.071219	119.617	1.960395	11.76237	13.72276	33.32671	37.2475	23.52474
818.342	94.665465	120.3726	1.972778	11.83667	13.80945	33.53723	37.48279	23.67334
825.145	95.452434	121.3733	1.989178	11.93507	13.92425	33.81603	37.79439	23.87014
839.521	97.115443	123.4879	2.023835	12.14301	14.16684	34.40519	38.45286	24.28602
841.211	97.310942	123.7365	2.027909	13.99257	14.19536	34.47445	38.53027	24.33491
843.312	97.553985	124.0455	2.032974	14.02752	14.23082	34.56055	38.6265	24.39568
891.901	103.17474	131.1927	2.150107	14.83574	15.05075	36.55182	55.20551	25.80129
929.095	107.47733	136.6637	2.239771	15.45442	15.6784	38.07611	57.50768	26.87725
929.131	107.48149	136.6689	2.239858	15.45502	15.679	38.07758	57.50991	26.87829
958.929	110.92851	141.052	2.311692	15.95067	16.18184	39.29876	59.3543	27.7403
1021.311	118.14484	150.228	2.462076	16.98833	17.23453	41.85529	63.21552	29.54491
1156.79	133.81699	170.1561	2.788676	19.24186	19.52073	47.40749	71.60119	33.46411
1372.207	158.73634	201.8425	3.307982	22.82507	23.15587	56.23569	84.93474	39.69578
1372.934	158.82044	201.9494	3.309734	22.83717	23.16814	56.26548	84.97974	39.71681
1588.721	183.78259	233.6902	3.829932	26.42653	26.80953	65.10885	98.33619	45.95919
1624.802	187.95643	238.9975	3.916913	27.0267	27.41839	66.58752	100.5695	47.00296
1670.699	193.26577	245.7486	4.027557	27.79014	28.1929	68.46847	103.4103	48.33068
1821.729	210.73686	267.9641	4.391645	30.30235	30.74152	74.65797	112.7586	52.69974
1836.219	212.41306	270.0955	4.426576	30.54338	30.98603	75.2518	113.6554	53.11892
2193.937	253.79373	322.7134	5.288928	36.4936	37.02249	89.91177	135.7969	63.46713
2221.323	256.96173	326.7417	5.354947	36.94914	37.48463	91.0341	137.492	64.25937
2278.312	263.55419	335.1244	5.492331	37.89708	38.44631	93.36962	141.0194	65.90797
2332.949	269.87458	343.1612	5.624044	38.8059	39.36831	95.60875	144.4013	67.48853
2357.832	272.75303	346.8213	5.68403	39.2198	39.78821	96.6285	145.9414	68.20836
2417.323	279.63493	355.572	5.827445	40.20937	40.79211	99.06656	149.6237	69.92934
2423.292	280.32542	356.45	5.841834	40.30866	40.89284	99.31118	149.9932	70.10201
2450.332	283.4534	360.4274	5.90702	40.75843	41.34914	100.4193	151.6669	70.88423
2551.313	295.13484	375.2811	6.150455	42.43814	43.05318	104.5577	157.9172	73.80546
2556.221	295.70259	376.003	6.162286	42.51978	43.136	104.7589	158.221	73.94744
2598.853	300.63424	382.2739	6.265059	43.22891	43.85542	106.506	160.8598	75.18071
2621.322	303.23345	385.5789	6.319225	43.60266	44.23458	107.4268	162.2505	75.83071
2740.191	316.98417	403.0637	6.605783	45.5799	46.24048	112.2983	169.6081	79.2694
2823.428	326.61299	415.3074	6.806443	46.96445	47.6451	115.7095	174.7602	81.67731
2831.386	327.53357	416.4779	6.825627	47.09683	47.77939	116.0357	175.2527	81.90752
2851.347	329.84265	419.4141	6.873747	47.42885	48.11623	116.8537	176.4883	82.48497
2919.273	337.7003	429.4055	7.037496	48.55873	49.26247	119.6374	180.6926	84.44996
3074.333	355.63757	452.2138	7.4113	51.13797	51.8791	125.9921	190.2903	88.9356
3115.188	360.36366	458.2233	7.509789	51.81754	52.56852	127.6664	192.8191	90.11747

3249.529	375.90418	477.984	7.833645	54.05215	54.83552	133.172	201.1343	94.00374
3405.182	393.91005	500.8795	8.208878	56.64126	57.46215	139.5509	210.7687	98.50654
3432.274	397.04404	504.8645	8.274189	57.0919	57.91932	140.6612	212.4456	99.29027
3434.693	397.32387	505.2203	8.28002	57.13214	57.96014	140.7603	212.5953	99.36024
3594.231	415.77916	528.6873	8.664619	59.78587	60.65233	147.2985	222.4701	103.9754
3647.619	421.95506	536.5403	8.793321	60.67392	61.55325	149.4865	225.7747	105.5199
3657.931	423.14795	538.0572	8.818181	60.84545	61.72726	149.9091	226.4129	105.8182
3742.957	432.98372	550.5639	9.023153	62.25975	63.16207	153.3936	231.6757	108.2778
3753.382	434.18968	552.0974	9.048284	62.43316	63.33799	153.8208	232.321	108.5794
3830.732	443.1375	563.475	9.234752	63.71979	64.64327	156.9908	237.1087	110.817
3855.823	446.04002	567.1657	9.295239	64.13715	65.06667	158.0191	238.6618	111.5429
3916.321	453.0384	576.0646	9.441082	65.14346	66.08757	160.4984	242.4064	113.293
3935.218	455.2244	578.8442	9.486637	65.45779	66.40646	161.2728	243.576	113.8396
3975.383	459.87067	584.7522	9.583463	66.12589	67.08424	162.9189	246.0621	115.0016
3993.437	461.95915	587.4078	9.626985	66.4262	67.3889	163.6588	247.1796	115.5238
4153.192	480.43954	610.9067	10.01211	69.08354	70.08475	170.2058	257.0678	120.1453
4241.321	490.63427	623.8699	10.22456	70.54946	71.57192	173.8175	262.5227	122.6947
4243.393	490.87395	624.1747	10.22955	70.58393	71.60688	173.9024	262.651	122.7547
4253.432	492.03526	625.6514	10.25376	70.75091	71.77629	174.3138	263.2723	123.0451
4318.222	499.53014	635.1815	10.40995	71.82862	72.86962	176.9691	267.2826	124.9193
4375.962	506.20948	643.6747	10.54914	72.78906	73.84397	179.3354	270.8565	126.5897
4393.419	508.2289	646.2425	10.59122	73.07944	74.13856	180.0508	271.937	127.0947
4394.134	508.31161	646.3477	10.59295	73.09133	74.15062	180.0801	271.9813	127.1154
4417.243	510.98485	649.7469	10.64866	73.47572	74.54059	181.0271	273.4117	127.7839
4481.463	518.41379	659.1932	10.80347	74.54395	75.62429	183.659	277.3866	129.6416
4495.138	519.99571	661.2047	10.83644	74.77141	75.85506	184.2194	278.2331	130.0372
4549.808	526.31991	669.2463	10.96823	75.68079	76.77761	186.4599	281.617	131.6188
4558.306	527.30296	670.4963	10.98872	75.82214	76.92101	186.8082	282.143	131.8646
4779.451	552.88492	703.0252	11.52183	79.50063	80.65281	195.8711	295.831	138.262
4838.674	559.73581	711.7365	11.6646	80.48574	81.6522	198.2982	299.4967	139.9752
4871.513	563.53462	716.5669	11.74376	81.03198	82.20635	199.644	301.5294	140.9252
4895.296	566.28582	720.0653	11.8011	81.42758	82.60769	200.6187	303.0014	141.6132
4962.213	574.02675	729.9083	11.96242	82.54067	83.73691	203.3611	307.1434	143.549
4969.224	574.83778	730.9396	11.97932	82.65729	83.85522	203.6484	307.5773	143.7518
4979.321	576.0058	732.4248	12.00366	82.82524	84.0256	204.0622	308.2023	144.0439
5027.231	581.54801	739.472	12.11915	83.62217	84.83408	206.0256	311.1678	145.4299
5059.792	585.31465	744.2615	12.19765	84.16378	85.38354	207.36	313.1832	146.3718
5118.094	592.059	752.8374	12.3382	85.13357	86.36739	209.7494	316.7918	148.0584
5176.287	598.79075	761.3972	12.47848	86.10154	87.34939	212.1342	320.3938	149.7418
5365.222	620.64667	789.1882	12.93395	89.24425	90.53765	219.8771	332.0882	155.2074
5376.392	621.93881	790.8313	12.96088	89.43005	90.72614	220.3349	332.7796	155.5305
5426.323	627.71481	798.1758	13.08125	90.2606	91.56872	222.3812	335.8701	156.975
5431.542	628.31854	798.9435	13.09383	90.34741	91.65679	222.5951	336.1932	157.1259
5536.242	640.43019	814.3441	13.34623	92.08897	93.4236	226.8859	342.6737	160.1547
5739.422	663.93397	844.2305	13.83603	95.46864	96.85224	235.2126	355.2498	166.0324
5745.218	664.60445	845.0831	13.85001	95.56505	96.95005	235.4501	355.6086	166.2001
5821.975	673.48367	856.3735	14.03505	96.84181	98.24532	238.5958	360.3596	168.4205

6037.432	698.40765	888.0658	14.55445	100.4257	101.8811	247.4256	373.6956	174.6534
6044.333	699.20595	889.0809	14.57108	100.5405	101.9976	247.7084	374.1228	174.853
6086.256	704.05559	895.2475	14.67215	101.2378	102.705	249.4265	376.7176	176.0658
6208.932	718.24669	913.2923	14.96788	103.2784	104.7752	254.454	384.3108	179.6146
6212.808	718.69507	913.8625	14.97723	103.3429	104.8406	254.6129	384.5508	179.7267
6231.031	720.8031	916.5429	15.02116	103.646	105.1481	255.3597	385.6787	180.2539
6280.321	726.50494	923.7932	15.13998	104.4659	105.9799	257.3797	388.7296	181.6798
6329.391	732.18134	931.011	15.25827	105.2821	106.8079	259.3907	391.7668	183.0993
6476.896	749.24466	952.708	15.61386	107.7357	109.297	265.4357	400.8969	187.3664
6477.098	749.26803	952.7377	15.61435	107.739	109.3005	265.444	400.9094	187.3722
6497.319	751.60718	955.7121	15.6631	108.0754	109.6417	266.2727	402.161	187.9572
6504.983	752.49375	956.8394	15.68157	108.2029	109.771	266.5868	402.6354	188.1789
6651.276	769.41687	978.3582	16.03424	110.6363	112.2397	272.5821	411.6904	192.4109
6657.913	770.18463	979.3344	16.05024	110.7467	112.3517	272.8541	412.1012	192.6029
6757.901	781.7512	994.042	16.29128	112.4099	114.039	276.9518	418.2901	195.4954
6758.321	781.79979	994.1038	16.2923	112.4168	114.0461	276.969	418.3161	195.5076
6855.286	793.01666	1008.367	16.52605	114.0297	115.6823	280.9428	424.3179	198.3126
6858.121	793.34461	1008.784	16.53288	114.0769	115.7302	281.059	424.4933	198.3946
6898.489	798.01436	1014.722	16.6302	114.7484	116.4114	282.7134	426.992	199.5624
6915.886	800.02684	1017.281	16.67214	115.0378	116.705	283.4263	428.0688	200.0657
7092.219	820.42497	1043.218	17.09722	117.9708	119.6806	290.6528	438.9832	205.1667
7120.218	823.66388	1047.336	17.16472	118.4366	120.1531	291.8003	440.7162	205.9767
7127.311	824.4844	1048.38	17.18182	118.5546	120.2727	292.091	441.1552	206.1818
7156.489	827.8597	1052.672	17.25216	119.0399	120.7651	293.2867	442.9613	207.0259
7208.821	833.91344	1060.369	17.37832	119.9104	121.6482	295.4314	446.2004	208.5398
7224.197	835.69213	1062.631	17.41538	120.1662	121.9077	296.0615	447.1521	208.9846
7282.169	842.39831	1071.158	17.55514	121.1304	122.886	298.4373	450.7404	210.6616
7285.693	842.80596	1071.677	17.56363	121.1891	122.9454	298.5818	450.9585	210.7636
7376.329	853.2907	1085.009	17.78213	122.6967	124.4749	302.2962	456.5686	213.3855
7488.742	866.29459	1101.544	18.05312	124.5665	126.3719	306.9031	463.5265	216.6375
7577.421	876.55294	1114.588	18.2669	126.0416	127.8683	310.5373	469.0155	219.2028
7621.085	881.60397	1121.011	18.37216	126.7679	128.6051	312.3268	471.7181	220.466
7627.207	882.31216	1121.911	18.38692	126.8698	128.7084	312.5777	472.097	220.6431
7650.939	885.05747	1125.402	18.44413	127.2645	129.1089	313.5502	473.566	221.3296
7668.231	887.0578	1127.945	18.48582	127.5521	129.4007	314.2589	474.6363	221.8298
7691.212	889.71623	1131.326	18.54122	127.9344	129.7885	315.2007	476.0587	222.4946
7842.184	907.18061	1153.533	18.90517	130.4456	132.3362	321.3878	485.4033	226.862
7849.231	907.99581	1154.569	18.92215	130.5629	132.4551	321.6766	485.8395	227.0659
7915.423	915.65287	1164.306	19.08172	131.6639	133.5721	324.3893	489.9366	228.9807
7932.482	917.62625	1166.815	19.12285	131.9477	133.8599	325.0884	490.9925	229.4742
7949.196	919.55972	1169.274	19.16314	132.2257	134.142	325.7734	492.027	229.9577
7967.311	921.65525	1171.938	19.20681	132.527	134.4477	326.5158	493.1483	230.4817
8021.229	927.89246	1179.869	19.33679	133.4239	135.3575	328.7254	496.4856	232.0415
8070.181	933.55521	1187.07	19.4548	134.2381	136.1836	330.7316	499.5156	233.4576
8114.032	938.62788	1193.52	19.56051	134.9675	136.9236	332.5287	502.2298	234.7261
8149.922	942.77962	1198.799	19.64703	135.5645	137.5292	333.9995	504.4512	235.7644
8194.19	947.90052	1205.31	19.75375	136.3009	138.2762	335.8137	507.1913	237.045

8245.801	953.87086	1212.902	19.87817	137.1593	139.1472	337.9288	510.3858	238.538
8328.322	963.41686	1225.04	20.0771	138.532	140.5397	341.3107	515.4936	240.9252
8330.534	963.67274	1225.366	20.08243	138.5688	140.577	341.4014	515.6305	240.9892
8355.987	966.61713	1229.11	20.14379	138.9922	141.0065	342.4445	517.2059	241.7255
8408.121	972.64797	1236.778	20.26947	139.8594	141.8863	344.581	520.4328	243.2337
8431.184	975.31589	1240.171	20.32507	140.243	142.2755	345.5262	521.8604	243.9008
8452.119	977.73764	1243.25	20.37554	140.5912	142.6288	346.3841	523.1562	244.5065
8548.324	988.8666	1257.401	20.60746	142.1915	144.2522	350.3268	529.1109	247.2895
8749.383	1012.125	1286.976	21.09215	145.5359	147.6451	358.5666	541.5557	253.1058
8784.424	1016.1785	1292.13	21.17663	146.1187	148.2364	360.0026	543.7247	254.1195
8894.222	1028.8799	1308.281	21.44132	147.9451	150.0892	364.5024	550.5208	257.2958
8923.1	1032.2205	1312.528	21.51093	148.4254	150.5765	365.6859	552.3082	258.1312
8923.361	1032.2507	1312.567	21.51156	148.4298	150.5809	365.6965	552.3244	258.1387
8935.752	1033.6841	1314.389	21.54143	148.6359	150.79	366.2044	553.0913	258.4972
8936.1	1033.7244	1314.44	21.54227	148.6417	150.7959	366.2186	553.1129	258.5073
9060.323	1048.0944	1332.713	21.84174	150.708	152.8922	371.3095	560.8018	262.1008
9072.409	1049.4925	1334.491	21.87087	150.909	153.0961	371.8048	561.5499	262.4505
9131.419	1056.3188	1343.171	22.01313	151.8906	154.0919	374.2232	565.2024	264.1575
9199.232	1064.1634	1353.145	22.1766	153.0186	155.2362	377.0023	569.3998	266.1193
9245.927	1069.565	1360.014	22.28917	153.7953	156.0242	378.9159	572.2901	267.4701
9270.322	1072.387	1363.602	22.34798	154.2011	156.4359	379.9157	573.8	268.1758
9279.193	1073.4132	1364.907	22.36937	154.3486	156.5856	380.2792	574.3491	268.4324
9393.946	1086.6878	1381.787	22.646	156.2574	158.522	384.982	581.4519	271.752
10227.24	1183.0831	1504.359	24.65483	170.1183	172.5838	419.1321	633.03	295.858
10340.51	1196.1858	1521.02	24.92788	172.0024	174.4952	423.774	640.0408	299.1346
10363.31	1198.8238	1524.374	24.98286	172.3817	174.88	424.7086	641.4523	299.7943
10456.38	1209.5901	1538.064	25.20722	173.9298	176.4505	428.5227	647.213	302.4866
10468.23	1210.9606	1539.807	25.23578	174.1269	176.6505	429.0083	647.9463	302.8294
10470.46	1211.218	1540.134	25.24115	174.1639	176.688	429.0995	648.0841	302.8938
10472.29	1211.4303	1540.404	25.24557	174.1944	176.719	429.1747	648.1976	302.9468
10689.34	1236.5383	1572.33	25.76881	177.8048	180.3817	438.0697	661.6321	309.2257
11525.12	1333.2212	1695.268	27.78363	191.707	194.4854	472.3217	713.3641	333.4035
11541.92	1335.164	1697.738	27.82411	191.9864	194.7688	473.0099	714.4036	333.8894
11812.42	1366.4558	1737.528	28.47622	196.4859	199.3335	484.0957	731.1468	341.7146
11840.32	1369.6837	1741.632	28.54349	196.9501	199.8044	485.2393	732.874	342.5218
12267.28	1419.074	1804.435	29.57276	204.052	207.0093	502.7368	759.3011	354.8731
12294.28	1422.1976	1808.407	29.63785	204.5012	207.4649	503.8434	760.9725	355.6542
12629.22	1460.9432	1857.674	30.44529	210.0725	213.117	517.5699	781.704	365.3434
12648.22	1463.141	1860.469	30.49109	210.3885	213.4376	518.3485	782.88	365.8931
13315.34	1540.3125	1958.597	32.0993	221.4852	224.6951	545.6881	824.172	385.1916
13735.24	1588.887	2020.362	33.11157	228.4698	231.781	562.8967	850.1627	397.3388
13853.23	1602.5362	2037.718	33.39601	230.4325	233.7721	567.7322	857.4659	400.7521
13915.23	1609.7082	2046.837	33.54547	231.4638	234.8183	570.273	861.3034	402.5457
13990.12	1618.3717	2057.853	33.72601	232.7095	236.0821	573.3422	865.9389	404.7122
14519.23	1679.5788	2135.682	35.00154	241.5106	245.0108	595.0261	898.6889	420.0184
14543.13	1682.3431	2139.197	35.05914	241.9081	245.414	596.0054	900.168	420.7097
15651.32	1810.5386	2302.205	37.73067	260.3416	264.1147	641.4214	968.7613	452.7681

17352.09	2007.282	2552.376	41.8307	288.6318	292.8149	711.1219	1074.032	501.9684
17970.12	2078.7763	2643.285	43.3206	298.9122	303.2442	736.4503	1112.287	519.8472
18524.42	2142.8972	2724.818	44.65685	308.1323	312.5979	759.1664	1146.596	535.8822
18619.33	2153.8765	2738.779	44.88565	309.711	314.1996	763.0561	1152.47	538.6278
18662.11	2158.8254	2745.072	44.98879	310.4226	314.9215	764.8094	1155.118	539.8654
19385.89	2242.5521	2851.535	46.73361	322.4619	327.1352	794.4713	1199.918	560.8033
19406.21	2244.9025	2854.524	46.78259	322.7998	327.4781	795.304	1201.176	561.391
	0	0.147093						
2221.323	256.96173	326.7417	5.354947	36.94914	37.48463	91.0341	137.492	64.25937
6530.4	755.43398	960.5781	15.74285	108.6256	110.1999	267.6284	404.2086	188.9142
10454.4	1209.3607	1537.772	25.20244	173.8968	176.4171	428.4415	647.0902	302.4293
	40 hpo4	38 HCO3	25 H+	34LI6	30LI7	38OH	38 H30	39 Mg
	20.62%	19.59%	12.88%	17,52%	15.46%	19.59%	19.59%	20.10%
<b>PATENT</b>		HCO3	H+	LI6	LI7	OH	H30	
1873	216.66787	26.74465	4.515244	31.15519	31.60671	76.75915	115.9321	54.18293
2221	256.92436	61.0168	5.354168	36.94376	37.47918	91.02086	137.472	64.25002
3669	424.42841	63.31469	8.844865	61.02957	61.91405	150.3627	227.0981	106.1384
5882	680.42734	92.43799	14.17975	97.84026	99.25823	241.0557	364.0749	170.157
6350	734.56538	96.4101	15.30796	105.6249	107.1557	260.2352	393.0425	183.6955
10456	1209.5458	99.72514	25.2063	173.9234	176.4441	428.5071	647.1893	302.4756
								0.028928
								0.028928

[https://emmind.net/openpapers\\_repos/Applied\\_Fields-Experimental/ELF\\_LF\\_Effects/ELF-EMF/2013\\_Ion](https://emmind.net/openpapers_repos/Applied_Fields-Experimental/ELF_LF_Effects/ELF-EMF/2013_Ion)





Ca (40)	Na 23	Zn 64	Cl 35	K39	ARG	Asn	Glu	Tyr 19
5.090448	10.09054	13.94102	15.34007	17.093425	33.9946	50.22511	64.8537	71.063188
11.61364	23.02115	31.80585	34.99772	38.997934	77.55727	114.5865	147.961	162.12769
12.05101	23.88813	33.00366	36.31573	40.466595	80.47807	118.9018	153.533	168.23341
17.5942	34.87612	48.18458	53.02013	59.080295	117.4961	173.5939	224.155	245.6169
18.35023	36.37476	50.2551	55.29844	61.619005	122.545	181.0533	233.787	256.17118
18.9812	37.6255	51.98311	57.19986	63.737762	126.7587	187.2788	241.826	264.97958
20.19462	40.0308	55.30625	60.8565	67.812353	134.862	199.251	257.285	281.91904
21.07989	41.78562	57.7307	63.52425	70.785024	140.7739	207.9856	268.564	294.27744
22.76732	45.13054	62.35202	88.48716	76.451339	152.0428	224.6347	290.062	317.83424
22.91115	45.41563	62.7459	89.04614	76.93428	153.0033	226.0537	291.894	319.84199
23.10161	45.79318	63.26751	89.78639	77.573846	154.2752	227.933	294.321	322.50089
23.50409	46.591	64.36978	91.35068	78.925368	156.9631	231.9041	299.449	328.11962
23.55141	46.68479	64.49936	91.53458	79.084249	157.2791	232.3709	300.051	328.78015
23.61023	46.80139	64.66046	91.76319	79.281769	157.6774	232.9513	300.801	329.6013
24.97058	49.49794	68.38599	97.0503	83.849737	166.7623	246.3732	318.132	348.5919
26.0119	51.5621	71.23782	101.0975	87.346433	173.7166	256.6475	331.399	363.12886
26.01291	51.5641	71.24058	101.1014	87.349818	173.7233	256.6574	331.412	363.14293
26.84716	53.21781	73.52532	104.3438	90.151199	179.2948	264.8886	342.04	374.78922
28.59367	56.67983	78.30843	111.1318	96.015879	190.9586	282.1206	364.291	399.1707
32.38668	64.19852	88.6962	125.8736	108.75258	216.2897	319.5445	412.615	452.12151
38.41772	76.15355	105.2132	149.3138	129.00445	256.567	379.05	489.452	536.31541
38.43807	76.19389	105.2689	149.3929	129.07279	256.703	379.2508	489.712	536.59955
44.47947	88.16945	121.8143	172.8733	149.35944	297.0495	438.8585	566.681	620.93806
45.48963	90.17184	124.5807	176.7994	152.75151	303.7957	448.8253	579.55	635.04001
46.77461	92.719	128.0999	181.7935	157.06639	312.3773	461.5036	595.921	652.97846
51.003	101.1007	139.68	198.2275	171.26508	340.616	503.2232	649.792	712.00725
51.40868	101.9049	140.791	212.36	172.62732	343.3252	507.2258	654.961	717.67054
61.42372	121.7572	168.2188	253.7303	206.25724	410.2092	606.0396	782.555	857.48157
62.19045	123.277	170.3186	256.8976	208.83186	415.4518	613.6045	792.324	868.18515
63.78597	126.4398	174.6882	263.4884	214.18954	426.1104	629.3468	812.651	890.45882
65.31564	129.472	178.8775	269.8072	219.32609	436.3291	644.4394	832.139	911.81322
66.01229	130.8529	180.7854	272.6849	221.6654	440.9829	651.3129	841.015	921.53853
67.67786	134.1545	185.3468	279.5651	227.25829	452.1095	667.7464	862.235	944.79008
67.84498	134.4857	185.8045	280.2554	227.81945	453.2258	669.3952	864.364	947.12302
68.60202	135.9864	187.8778	283.3826	230.36155	458.2831	676.8646	874.009	957.69137
71.42919	141.5905	195.6204	295.0611	239.85501	477.1695	704.7589	910.028	997.15893
71.5666	141.8629	195.9968	295.6287	240.31642	478.0874	706.1147	911.778	999.07718
72.76017	144.2289	199.2655	300.5592	244.32436	486.0608	717.8911	926.985	1015.7395
73.38923	145.4758	200.9883	303.1577	246.43672	490.2632	724.0978	934.999	1024.5214
76.71721	152.0727	210.1026	316.905	257.61188	512.4951	756.9334	977.399	1070.9803
79.0476	156.6921	216.4847	326.5314	265.43719	528.0629	779.9263	1007.09	1103.5128
79.2704	157.1338	217.0949	327.4518	266.18534	529.5512	782.1246	1009.93	1106.6231
79.82925	158.2416	218.6254	329.7603	268.06192	533.2845	787.6385	1017.05	1114.4247
81.73097	162.0113	223.8336	337.616	274.44781	545.9886	806.4019	1041.28	1140.973
86.07219	170.6167	235.7227	355.5488	289.02537	574.9894	849.2348	1096.58	1201.5768
87.21601	172.884	238.8552	360.2737	292.86624	582.6304	860.5203	1111.16	1217.5447

90.97716	180.3395	249.1557	375.8103	305.49596	607.7561	897.6298	1159.07	1270.0507
95.33498	188.9778	261.0903	393.8117	320.12927	636.8677	940.6264	1214.59	1330.8863
96.09348	190.4813	263.1676	396.9449	322.67625	641.9347	948.1102	1224.26	1341.475
96.1612	190.6156	263.3531	397.2246	322.90367	642.3871	948.7784	1225.12	1342.4205
100.6278	199.4695	275.5856	415.6753	337.90222	672.2254	992.8482	1282.03	1404.7745
102.1225	202.4324	279.6791	421.8497	342.92135	682.2105	1007.596	1301.07	1425.6408
102.4112	203.0047	280.4697	423.0423	343.8908	684.1391	1010.444	1304.75	1429.6711
104.7917	207.7234	286.989	432.8756	351.8843	700.0414	1033.931	1335.08	1462.9028
105.0835	208.3019	287.7884	434.0812	352.86438	701.9912	1036.811	1338.79	1466.9774
107.2491	212.5946	293.7191	443.0268	360.13624	716.4579	1058.178	1366.38	1497.2089
107.9516	213.9871	295.643	445.9286	362.4951	721.1506	1065.109	1375.33	1507.0155
109.6454	217.3446	300.2816	452.9253	368.18266	732.4655	1081.82	1396.91	1530.6607
110.1744	218.3933	301.7305	455.1107	369.95922	735.9998	1087.04	1403.65	1538.0464
111.2989	220.6223	304.8102	459.7558	373.73522	743.5118	1098.135	1417.98	1553.7445
111.8044	221.6243	306.1945	461.8438	375.43252	746.8884	1103.122	1424.42	1560.8008
116.277	230.4902	318.4436	480.3195	390.45147	776.7673	1147.252	1481.4	1623.2397
118.7444	235.3811	325.2008	490.5117	398.73669	793.2499	1171.596	1512.84	1657.6841
118.8024	235.4961	325.3597	490.7514	398.93148	793.6375	1172.169	1513.58	1658.494
119.0835	236.0533	326.1294	491.9124	399.87527	795.515	1174.942	1517.16	1662.4176
120.8974	239.6489	331.0972	499.4054	405.96633	807.6327	1192.839	1540.27	1687.7402
122.5139	242.8533	335.5243	506.0831	411.39461	818.4317	1208.789	1560.86	1710.3074
123.0027	243.8221	336.8628	508.102	413.03578	821.6967	1213.611	1567.09	1717.1304
123.0227	243.8618	336.9177	508.1847	413.103	821.8304	1213.808	1567.34	1717.4098
123.6697	245.1443	338.6895	510.8572	415.27553	826.1524	1220.192	1575.59	1726.4418
125.4677	248.7083	343.6136	518.2843	421.31301	838.1635	1237.932	1598.49	1751.5416
125.8505	249.4672	344.6621	519.8658	422.59863	840.7211	1241.709	1603.37	1756.8864
127.3811	252.5013	348.8539	526.1885	427.73828	850.9459	1256.811	1622.87	1778.2537
127.619	252.9729	349.5055	527.1713	428.5372	852.5353	1259.158	1625.9	1781.575
133.6031	265.2458	366.4616	552.7468	449.32757	893.8958	1320.246	1704.78	1868.0077
135.2586	268.5325	371.0025	559.596	454.89527	904.9723	1336.605	1725.91	1891.1545
136.1765	270.355	373.5204	563.3939	457.98254	911.1141	1345.677	1737.62	1903.9893
136.8413	271.6749	375.344	566.1444	460.21843	915.5622	1352.246	1746.1	1913.2847
138.7119	275.3886	380.4748	573.8834	466.50946	928.0776	1370.731	1769.97	1939.4386
138.9079	275.7777	381.0124	574.6942	467.16858	929.3889	1372.668	1772.47	1942.1788
139.1902	276.338	381.7865	575.8619	468.11782	931.2773	1375.457	1776.07	1946.1252
140.5294	278.9969	385.46	581.4028	472.62196	940.2379	1388.691	1793.16	1964.8504
141.4396	280.8039	387.9566	585.1685	475.68309	946.3277	1397.686	1804.78	1977.5766
143.0694	284.0395	392.4269	591.9111	481.1642	957.2319	1413.791	1825.57	2000.3634
144.6961	287.2691	396.8888	598.6412	486.63507	968.1157	1429.866	1846.33	2023.1076
149.9775	297.7544	411.3753	620.4917	504.3973	1003.452	1482.056	1913.72	2096.9513
150.2897	298.3743	412.2317	621.7835	505.44741	1005.541	1485.141	1917.7	2101.317
151.6855	301.1453	416.0602	627.558	510.14155	1014.88	1498.934	1935.51	2120.8321
151.8314	301.435	416.4603	628.1616	510.6322	1015.856	1500.376	1937.38	2122.8719
154.7581	307.2455	424.4881	640.2702	520.47529	1035.438	1529.297	1974.72	2163.793
160.4377	318.5214	440.0668	663.7682	539.57673	1073.438	1585.422	2047.19	2243.2042
160.5998	318.8431	440.5112	664.4385	540.12163	1074.522	1587.024	2049.26	2245.4695
162.7454	323.1029	446.3965	673.3155	547.33773	1088.878	1608.226	2076.64	2275.4693



168.7682	335.0601	462.9166	698.2332	567.59336	1129.175	1667.743	2153.49	2359.6788
168.9611	335.4431	463.4457	699.0313	568.24214	1130.465	1669.649	2155.95	2362.376
170.133	337.7697	466.6601	703.8797	572.18342	1138.306	1681.23	2170.91	2378.7613
173.5623	344.5779	476.0662	718.0673	583.71648	1161.25	1715.117	2214.66	2426.7081
173.6706	344.793	476.3634	718.5156	584.08087	1161.975	1716.188	2216.05	2428.223
174.18	345.8043	477.7607	720.6231	585.79406	1165.383	1721.222	2222.55	2435.3453
175.5578	348.5398	481.54	726.3235	590.42793	1174.602	1734.837	2240.13	2454.6099
176.9295	351.263	485.3024	731.9985	595.04112	1183.78	1748.392	2257.63	2473.7885
181.0528	359.4491	496.6122	749.0575	608.90842	1211.367	1789.138	2310.24	2531.4396
181.0585	359.4603	496.6277	749.0809	608.92741	1211.405	1789.194	2310.32	2531.5185
181.6237	360.5825	498.1782	751.4195	610.82843	1215.187	1794.779	2317.53	2539.4217
181.838	361.0079	498.7658	752.3058	611.54894	1216.62	1796.896	2320.26	2542.4171
185.9274	369.1267	509.9827	769.2247	625.3023	1243.981	1837.307	2372.44	2599.5945
186.1129	369.495	510.4916	769.9923	625.92626	1245.223	1839.141	2374.81	2602.1885
188.9079	375.0441	518.1581	781.556	635.32637	1263.923	1866.761	2410.48	2641.268
188.9197	375.0674	518.1903	781.6045	635.36585	1264.002	1866.877	2410.62	2641.4321
191.6302	380.4487	525.6251	792.8186	644.48176	1282.137	1893.662	2445.21	2679.3301
191.7095	380.606	525.8424	793.1465	644.74829	1282.667	1894.445	2446.22	2680.4381
192.8379	382.8463	528.9376	797.8151	648.54338	1290.217	1905.596	2460.62	2696.2156
193.3242	383.8118	530.2715	799.827	650.17891	1293.471	1910.402	2466.83	2703.0151
198.2533	393.5978	543.7918	820.2201	666.7564	1326.45	1959.111	2529.72	2771.9333
199.036	395.1516	545.9386	823.4582	669.38865	1331.687	1966.845	2539.71	2782.8765
199.2343	395.5453	546.4824	824.2785	670.05548	1333.014	1968.804	2542.24	2785.6487
200.0499	397.1646	548.7196	827.6529	672.79857	1338.471	1976.864	2552.65	2797.0527
201.5128	400.0689	552.7322	833.7052	677.71843	1348.258	1991.32	2571.31	2817.5062
201.9426	400.9222	553.9111	835.4834	679.16396	1351.134	1995.568	2576.8	2823.5158
203.5631	404.1395	558.3561	842.1879	684.61405	1361.977	2011.581	2597.48	2846.1737
203.6616	404.335	558.6263	842.5955	684.94535	1362.636	2012.555	2598.73	2847.551
206.1953	409.3651	565.5757	853.0776	693.46625	1379.587	2037.592	2631.06	2882.9753
209.3376	415.6037	574.1949	866.0782	704.03447	1400.612	2068.644	2671.16	2926.911
211.8165	420.5251	580.9943	876.334	712.37139	1417.197	2093.14	2702.79	2961.5704
213.0371	422.9483	584.3423	881.3838	716.47635	1425.364	2105.201	2718.36	2978.6361
213.2082	423.2881	584.8117	882.0918	717.05189	1426.509	2106.893	2720.55	2981.0288
213.8716	424.6051	586.6313	884.8364	719.28299	1430.947	2113.448	2729.01	2990.3043
214.355	425.5648	587.9571	886.8363	720.90866	1434.181	2118.225	2735.18	2997.0627
214.9974	426.8402	589.7192	889.494	723.06916	1438.48	2124.573	2743.38	3006.0446
219.2176	435.2187	601.2949	906.954	737.26239	1466.716	2166.276	2797.23	3065.0507
219.4146	435.6098	601.8352	907.769	737.9249	1468.034	2168.223	2799.74	3067.805
221.2649	439.2832	606.9105	915.4242	744.14777	1480.413	2186.508	2823.35	3093.6756
221.7418	440.23	608.2184	917.3971	745.75152	1483.604	2191.22	2829.44	3100.343
222.209	441.1575	609.5	919.3301	747.32285	1486.73	2195.837	2835.4	3106.8755
222.7154	442.1629	610.8889	921.4251	749.02588	1490.118	2200.841	2841.86	3113.9556
224.2226	445.1552	615.0231	927.6607	754.09484	1500.202	2215.735	2861.09	3135.029
225.5909	447.8719	618.7764	933.3221	758.69693	1509.358	2229.257	2878.55	3154.1614
226.8167	450.3055	622.1387	938.3935	762.81947	1517.559	2241.37	2894.19	3171.3002
227.82	452.2973	624.8905	942.5442	766.19357	1524.272	2251.284	2907	3185.3275
229.0574	454.754	628.2847	947.6638	770.35531	1532.551	2263.512	2922.78	3202.6293

230.5002	457.6183	632.242	953.6326	775.20739	1542.204	2277.769	2941.19	3222.801
232.8069	462.1979	638.5692	963.1762	782.96538	1557.638	2300.564	2970.63	3255.0536
232.8688	462.3207	638.7388	963.4321	783.17334	1558.051	2301.175	2971.42	3255.9182
233.5803	463.7333	640.6904	966.3757	785.56624	1562.812	2308.206	2980.5	3265.8663
235.0376	466.6266	644.6878	972.405	790.46748	1572.562	2322.607	2999.09	3286.2424
235.6823	467.9065	646.4561	975.0723	792.63569	1576.876	2328.978	3007.32	3295.2564
236.2675	469.0683	648.0613	977.4934	794.60383	1580.791	2334.761	3014.79	3303.4386
238.9568	474.4074	655.4378	988.6196	803.6483	1598.784	2361.336	3049.1	3341.0395
244.5771	485.5656	670.8538	1011.872	822.55033	1636.388	2416.876	3120.82	3419.6217
245.5566	487.5103	673.5406	1015.925	825.84462	1642.942	2426.555	3133.32	3433.3172
248.6259	493.6038	681.9593	1028.623	836.16699	1663.477	2456.885	3172.48	3476.2308
249.4331	495.2064	684.1735	1031.963	838.88188	1668.878	2464.862	3182.78	3487.5176
249.4404	495.2209	684.1935	1031.993	838.90642	1668.927	2464.934	3182.87	3487.6196
249.7868	495.9086	685.1436	1033.426	840.07132	1671.245	2468.357	3187.29	3492.4625
249.7965	495.9279	685.1703	1033.466	840.10404	1671.31	2468.453	3187.42	3492.5985
253.269	502.8219	694.695	1047.833	851.78254	1694.543	2502.768	3231.73	3541.15
253.6069	503.4926	695.6217	1049.23	852.91877	1696.803	2506.106	3236.04	3545.8737
255.2564	506.7675	700.1462	1056.055	858.46644	1707.84	2522.407	3257.09	3568.9373
257.152	510.531	705.3458	1063.898	864.84171	1720.523	2541.139	3281.27	3595.4414
258.4573	513.1224	708.9261	1069.298	869.23161	1729.256	2554.038	3297.93	3613.6917
259.1393	514.4762	710.7965	1072.119	871.52505	1733.819	2560.776	3306.63	3623.2263
259.3872	514.9686	711.4767	1073.145	872.35903	1735.478	2563.227	3309.79	3626.6935
262.595	521.337	720.2753	1086.416	883.14723	1756.94	2594.926	3350.73	3671.5437
285.8887	567.5826	784.1678	1182.788	961.48737	1912.791	2825.11	3647.95	3997.2303
289.0549	573.8685	792.8525	1195.887	972.13587	1933.975	2856.398	3688.36	4041.4998
289.6923	575.1341	794.601	1198.524	974.27973	1938.24	2862.698	3696.49	4050.4125
292.294	580.2992	801.7371	1209.288	983.02947	1955.647	2888.407	3729.69	4086.7881
292.6252	580.9568	802.6455	1210.658	984.14332	1957.863	2891.679	3733.91	4091.4188
292.6874	581.0802	802.8161	1210.916	984.3525	1958.279	2892.294	3734.71	4092.2884
292.7387	581.1821	802.9568	1211.128	984.52501	1958.622	2892.801	3735.36	4093.0056
298.8059	593.2276	819.5988	1236.229	1004.9302	1999.216	2952.757	3812.78	4177.837
322.1691	639.6111	883.6819	1332.888	1083.5041	2155.532	3183.628	4110.89	4504.4953
322.6385	640.5431	884.9696	1334.831	1085.0829	2158.673	3188.267	4116.88	4511.0591
330.2001	655.5553	905.7104	1366.114	1110.5136	2209.265	3262.99	4213.37	4616.7832
330.9801	657.1039	907.8499	1369.342	1113.137	2214.484	3270.698	4223.32	4627.6893
342.9152	680.7989	940.5866	1418.72	1153.2763	2294.337	3388.638	4375.62	4794.5622
343.67	682.2974	942.657	1421.842	1155.8148	2299.387	3396.097	4385.25	4805.1157
353.0327	700.8855	968.3382	1460.578	1187.3032	2362.03	3488.618	4504.72	4936.0237
353.5638	701.9399	969.795	1462.776	1189.0894	2365.584	3493.866	4511.49	4943.4493
372.2121	738.9628	1020.946	1539.928	1251.8064	2490.354	3678.146	4749.45	5204.1851
383.95	762.2664	1053.142	1588.49	1291.2827	2568.888	3794.138	4899.22	5368.3018
387.2483	768.8146	1062.189	1602.136	1302.3753	2590.956	3826.731	4941.31	5414.4176
388.9814	772.2554	1066.942	1609.306	1308.204	2602.551	3843.857	4963.42	5438.6494
391.0749	776.4116	1072.685	1617.967	1315.2448	2616.558	3864.545	4990.14	5467.9203
405.8654	805.7757	1113.254	1679.159	1364.9876	2715.517	4010.703	5178.86	5674.718
406.5334	807.1018	1115.086	1681.923	1367.2341	2719.986	4017.304	5187.39	5684.0576
437.5115	868.6035	1200.056	1810.086	1471.4181	2927.251	4323.425	5582.67	6117.1861

485.054	962.9909	1330.461	2006.781	1631.3108	3245.343	4793.233	6189.31	6781.9145
502.3303	997.2902	1377.849	2078.257	1689.414	3360.934	4963.956	6409.76	7023.469
517.825	1028.052	1420.349	2142.362	1741.5247	3464.603	5117.071	6607.47	7240.1112
520.4781	1033.319	1427.626	2153.339	1750.4476	3482.354	5143.289	6641.33	7277.2068
521.674	1035.694	1430.907	2158.286	1754.4696	3490.356	5155.107	6656.59	7293.9273
541.9063	1075.861	1486.402	2241.992	1822.514	3625.724	5355.039	6914.75	7576.811
542.4743	1076.989	1487.96	2244.342	1824.4241	3629.524	5360.652	6922	7584.7521
					0	0	0	0
62.09407	123.277	170.3186	256.8976	208.83186	415.4518	613.6045	792.324	868.18515
182.5485	362.4184	500.7146	755.2453	613.93845	1221.374	1803.917	2329.33	2552.3512
292.2385	580.1892	801.585	1209.059	982.84304	1955.276	2887.859	3728.98	4086.0131

47 Ca40	31Na	34Zn 64	34 ZN/CL	43 k39	35Arg	27 ASN	40 Glu	35 Tyr
24.23%	15.38%	17.53%	17.53%	22.16%	18.04%	13.32%	20.62%	18.04%

K39								
Ca 40	Na 23	Zn 64	CL35/ZN70					
52.35717	103.9461	143.6112	216.6138	176.08519	350.3053	517.386	668.08	732.04608
62.08504	123.2591	170.2939	256.8602	208.8015	415.3914	613.5153	792.208	868.05891
102.5619	203.619	281.3184	424.3224	344.93143	686.2093	1013.502	1308.7	1433.9974
164.4233	326.4341	450.9989	680.2574	552.98083	1100.104	1624.807	2098.05	2298.9295
177.5056	352.4068	486.8826	734.3819	596.97862	1187.634	1754.085	2264.98	2481.8434
292.2833	580.278	801.7077	1209.244	982.99346	1955.575	2888.301	3729.55	4086.6384



ser	HIST	W/E	33.8	39	45	7.83	20.84	14.3
41.21664	58.98401	3.91012903	5.37932	4.662077	4.040467	23.20329	8.732997	12.71476
94.03404	134.5696	8.9207957	12.27269	10.63633	9.218156	54.93096	19.91918	29.00818
97.57536	139.6374	9.25675269	12.73488	11.0369	9.565311	80.19793	20.66934	30.10063
142.4578	203.8674	13.5146452	18.59263	16.11362	13.96513	83.64408	30.17676	43.94622
148.5793	212.6277	14.0953763	19.39157	16.80603	14.56522	86.52016	31.47347	45.83462
153.6881	219.9389	14.580043	20.05834	17.3839	15.06604	92.05117	32.55568	47.41063
163.513	233.999	15.5121075	21.34062	18.49521	16.02918	96.0864	34.63688	50.44147
170.6809	244.2568	16.1921075	22.27612	19.30597	16.73184	103.7781	36.15525	52.65266
184.3438	263.8094	17.4882796	24.05932	20.85141	18.07122	104.4336	39.04946	56.86748
185.5083	265.4759	17.5987527	24.2113	20.98313	18.18538	104.5137	39.29613	57.22671
187.0505	267.6829	17.7450538	24.41257	21.15756	18.33656	105.3825	39.62281	57.70245
190.3093	272.3465	18.0542151	24.8379	21.52618	18.65602	107.2185	40.31313	58.70776
190.6924	272.8948	18.0905591	24.8879	21.56951	18.69358	107.4344	40.39429	58.82594
191.1687	273.5764	18.1357419	24.95006	21.62338	18.74027	107.7027	40.49517	58.97287
202.1833	289.339	19.1806667	26.3876	22.86926	19.82002	113.9082	42.82838	62.3707
210.6147	301.405	19.9805376	27.48802	23.82295	20.64656	118.6584	44.61441	64.97168
210.6229	301.4166	19.9813118	27.48908	23.82387	20.64736	118.663	44.61613	64.9742
217.3777	311.0833	20.622129	28.37068	24.58792	21.30953	122.4686	46.04701	67.05797
231.519	331.3205	21.9636774	30.2163	26.18746	22.6958	130.4356	49.04255	71.42035
262.2304	375.2708	24.8772043	34.22456	29.66128	25.70644	147.7382	55.54814	80.89441
311.0629	445.1536	29.509828	40.59784	35.18479	30.49349	175.2499	65.89229	95.95853
311.2277	445.3895	29.5254624	40.61935	35.20344	30.50964	175.3428	65.9272	96.00937
360.144	515.3923	34.166043	47.00358	40.73644	35.30491	202.9018	76.28912	111.0994
368.3231	527.0972	34.9419785	48.07107	41.66159	36.10671	207.5098	78.0217	113.6225
378.7274	541.9865	35.9290108	49.42896	42.83844	37.12664	213.3715	80.22564	116.8321
412.9641	590.9817	39.1769677	53.89731	46.711	40.48287	232.6602	87.47798	127.3936
416.2488	595.6824	39.4885806	54.32601	47.08254	40.80487	234.5107	88.17378	128.4069
497.3392	711.7286	47.1814409	64.90938	56.25479	48.75416	280.1963	105.3511	153.4222
503.5473	720.6128	47.7703871	65.71962	56.957	49.36273	283.6939	106.6662	155.3373
516.466	739.1005	48.995957	67.40568	58.41826	50.62916	290.9722	109.4027	159.3225
528.8516	756.8251	50.1709462	69.02216	59.81921	51.84331	297.9501	112.0264	163.1433
534.4922	764.8973	50.7060645	69.75834	60.45723	52.39627	301.128	113.2212	164.8834
547.9781	784.1966	51.9854409	71.51843	61.98264	53.71829	308.7258	116.0779	169.0436
549.3312	786.133	52.1138065	71.69503	62.13569	53.85093	309.4881	116.3646	169.461
555.4609	794.905	52.6953118	72.49503	62.82903	54.45182	312.9415	117.663	171.3519
578.3521	827.6639	54.8669462	75.48263	65.41828	56.69584	325.8382	122.512	178.4135
579.4646	829.2561	54.9724946	75.62784	65.54413	56.80491	326.465	122.7477	178.7567
589.1288	843.0862	55.8893118	76.88914	66.63726	57.75229	331.9097	124.7949	181.738
594.2223	850.3753	56.3725161	77.55391	67.21338	58.2516	334.7793	125.8738	183.3092
621.1684	888.9373	58.9288387	81.07074	70.26131	60.89313	349.9605	131.5818	191.6217
640.0373	915.94	60.7188817	83.53337	72.39559	62.74284	360.5911	135.5788	197.4425
641.8412	918.5216	60.8900215	83.76882	72.59964	62.91969	361.6074	135.9609	197.999
646.3662	924.9971	61.3192903	84.35938	73.11146	63.36327	364.1567	136.9194	199.3949
661.7642	947.0327	62.7800645	86.36902	74.85315	64.87273	372.8318	140.1812	204.145
696.9144	997.3353	66.1146882	90.9566	78.82905	68.31851	392.6351	147.627	214.9883
706.1758	1010.589	66.9932903	92.16533	79.87662	69.2264	397.8529	149.5889	217.8453

736.6293	1054.17	69.8823441	96.13991	83.32126	72.21176	415.0101	156.0398	227.2398
771.9139	1104.665	73.2297204	100.745	87.31236	75.67071	434.8891	163.5141	238.1246
778.0554	1113.454	73.8123441	101.5466	88.00703	76.27276	438.3492	164.8151	240.0192
778.6037	1114.239	73.8643656	101.6181	88.06905	76.32651	438.6581	164.9312	240.1883
814.7691	1165.994	77.2952903	106.3382	92.15977	79.8718	459.0333	172.5921	251.3448
826.8715	1183.313	78.4434194	107.9177	93.52869	81.0582	465.8517	175.1558	255.0783
829.2091	1186.659	78.6651828	108.2228	93.7931	81.28736	467.1687	175.6509	255.7994
848.4835	1214.242	80.4936989	110.7384	95.97326	83.17682	478.0277	179.7338	261.7452
850.8467	1217.624	80.7178925	111.0468	96.24056	83.40849	479.3591	180.2344	262.4743
868.381	1242.716	82.3813333	113.3353	98.2239	85.12738	489.2378	183.9487	267.8834
874.0688	1250.856	82.9209247	114.0776	98.86726	85.68496	492.4423	185.1536	269.638
887.783	1270.482	84.221957	115.8675	100.4185	87.02936	500.1687	188.0586	273.8686
892.0667	1276.612	84.6283441	116.4266	100.903	87.44929	502.5821	188.9661	275.1901
901.1716	1289.642	85.4921075	117.6149	101.9329	88.34184	507.7117	190.8947	277.9988
905.2643	1295.499	85.8803656	118.149	102.3958	88.74304	510.0175	191.7617	279.2613
941.4788	1347.325	89.315957	122.8755	106.4921	92.29316	530.4204	199.433	290.433
961.4566	1375.914	91.2112043	125.4829	108.7518	94.25158	541.6757	203.6649	296.5959
961.9263	1376.587	91.2557634	125.5442	108.8049	94.29762	541.9404	203.7644	296.7408
964.202	1379.843	91.4716559	125.8412	109.0624	94.52071	543.2225	204.2464	297.4428
978.8891	1400.862	92.8649892	127.758	110.7236	95.96049	551.4971	207.3576	301.9736
991.9781	1419.593	94.1067097	129.4663	112.2042	97.2436	558.8713	210.1302	306.0113
995.9354	1425.256	94.482129	129.9828	112.6518	97.63153	561.1008	210.9685	307.2321
996.0975	1425.488	94.4975054	130.004	112.6701	97.64742	561.1921	211.0028	307.2821
1001.336	1432.985	94.9944731	130.6877	113.2626	98.16096	564.1434	212.1125	308.8981
1015.894	1453.818	96.3755484	132.5877	114.9093	99.58807	572.3452	215.1963	313.389
1018.994	1458.254	96.6696344	132.9922	115.2599	99.89196	574.0917	215.853	314.3453
1031.387	1475.99	97.8453333	134.6097	116.6617	101.1068	581.0738	218.4782	318.1684
1033.313	1478.747	98.028086	134.8611	116.8796	101.2957	582.1591	218.8862	318.7627
1083.444	1550.488	102.783892	141.4039	122.55	106.21	610.4024	229.5055	334.2273
1096.869	1569.7	104.057505	143.156	124.0686	107.5261	617.966	232.3493	338.3688
1104.314	1580.353	104.76372	144.1276	124.9106	108.2558	622.16	233.9262	340.6652
1109.705	1588.069	105.275183	144.8312	125.5204	108.7844	625.1974	235.0682	342.3284
1124.874	1609.777	106.714258	146.811	127.2362	110.2714	633.7437	238.2815	347.0079
1126.463	1612.051	106.865032	147.0185	127.416	110.4272	634.6391	238.6182	347.4982
1128.752	1615.327	107.082172	147.3172	127.6749	110.6516	635.9286	239.103	348.2043
1139.613	1630.869	108.112495	148.7346	128.9034	111.7162	642.0474	241.4036	351.5546
1146.994	1641.432	108.812731	149.698	129.7383	112.4398	646.2059	242.9672	353.8316
1160.211	1660.346	110.066538	151.4229	131.2332	113.7354	653.6519	245.7668	357.9087
1173.402	1679.224	111.318	153.1446	132.7253	115.0286	661.0839	248.5612	361.9781
1216.231	1740.516	115.381118	158.7344	137.5698	119.2272	685.2135	257.6337	375.1903
1218.764	1744.139	115.621333	159.0649	137.8562	119.4754	686.6401	258.1701	375.9715
1230.082	1760.337	116.695118	160.5421	139.1365	120.585	693.017	260.5677	379.4631
1231.265	1762.031	116.807355	160.6965	139.2703	120.7009	693.6835	260.8183	379.8281
1255	1795.996	119.058968	163.7941	141.9549	123.0276	707.0552	265.846	387.1498
1301.058	1861.909	123.42843	169.8054	147.1647	127.5427	733.0041	275.6025	401.3582
1302.372	1863.789	123.553075	169.9769	147.3133	127.6715	733.7443	275.8808	401.7635
1319.772	1888.69	125.203763	172.2478	149.2814	129.3772	743.5473	279.5666	407.1311



1368.613	1958.586	129.837247	178.6222	154.8059	134.1652	771.0641	289.9127	422.198
1370.178	1960.824	129.985656	178.8264	154.9829	134.3185	771.9455	290.2441	422.6806
1379.681	1974.424	130.887226	180.0667	156.0578	135.2501	777.2996	292.2572	425.6123
1407.49	2014.221	133.525419	183.6962	159.2034	137.9763	792.967	298.148	434.191
1408.369	2015.479	133.608774	183.8109	159.3028	138.0624	793.4621	298.3341	434.4621
1412.5	2021.39	134.000667	184.35	159.77	138.4674	795.7894	299.2092	435.7364
1423.673	2037.38	135.060667	185.8083	161.0339	139.5627	802.0844	301.576	439.1833
1434.797	2053.299	136.115935	187.2601	162.2921	140.6531	808.3513	303.9323	442.6148
1468.235	2101.151	139.288086	191.6241	166.0743	143.931	827.1898	311.0154	452.9298
1468.28	2101.216	139.29243	191.6301	166.0794	143.9355	827.2156	311.0251	452.9439
1472.864	2107.776	139.72729	192.2284	166.5979	144.3849	829.7981	311.9961	454.358
1474.602	2110.262	139.892108	192.4551	166.7944	144.5552	830.7769	312.3641	454.8939
1507.764	2157.721	143.038194	196.7833	170.5455	147.8061	849.4605	319.389	465.1242
1509.269	2159.874	143.180925	196.9797	170.7157	147.9536	850.3082	319.7077	465.5883
1531.935	2192.311	145.331204	199.9379	173.2795	150.1756	863.078	324.5091	472.5805
1532.03	2192.447	145.340237	199.9503	173.2903	150.1849	863.1317	324.5292	472.6099
1554.011	2223.903	147.425505	202.8191	175.7766	152.3397	875.5155	329.1854	479.3906
1554.654	2224.823	147.486473	202.903	175.8493	152.4027	875.8775	329.3215	479.5889
1563.805	2237.918	148.354602	204.0973	176.8843	153.2998	881.0331	331.26	482.4118
1567.748	2243.562	148.728731	204.612	177.3304	153.6864	883.2549	332.0954	483.6284
1607.721	2300.766	152.520839	209.829	181.8518	157.6049	905.7751	340.5627	495.9594
1614.068	2309.849	153.122968	210.6573	182.5697	158.2271	909.351	341.9072	497.9173
1615.676	2312.15	153.275505	210.8672	182.7516	158.3847	910.2568	342.2478	498.4134
1622.29	2321.615	153.902989	211.7304	183.4997	159.0331	913.9833	343.6489	500.4538
1634.153	2338.592	155.028409	213.2787	184.8416	160.196	920.6668	346.1619	504.1134
1637.639	2343.58	155.359075	213.7336	185.2358	160.5377	922.6305	346.9002	505.1886
1650.78	2362.387	156.605785	215.4488	186.7223	161.826	930.0344	349.684	509.2426
1651.579	2363.53	156.68157	215.553	186.8126	161.9043	930.4844	349.8532	509.489
1672.125	2392.933	158.630731	218.2346	189.1366	163.9184	942.0599	354.2055	515.8272
1697.608	2429.401	161.048215	221.5604	192.019	166.4165	956.4166	359.6035	523.6883
1717.71	2458.169	162.95529	224.1841	194.2928	168.3871	967.7421	363.8618	529.8896
1727.609	2472.334	163.894301	225.4759	195.4124	169.3574	973.3186	365.9585	532.943
1728.996	2474.32	164.025957	225.657	195.5694	169.4935	974.1005	366.2524	533.3711
1734.376	2482.019	164.536323	226.3591	196.1779	170.0209	977.1314	367.392	535.0307
1738.296	2487.628	164.908194	226.8707	196.6213	170.4051	979.3398	368.2224	536.2399
1743.506	2495.083	165.402409	227.5507	197.2106	170.9158	982.2748	369.3259	537.847
1777.729	2544.06	168.649118	232.0173	201.0816	174.2708	1001.556	376.5755	548.4045
1779.327	2546.346	168.800667	232.2258	201.2623	174.4274	1002.456	376.9139	548.8973
1794.331	2567.819	170.224151	234.1841	202.9596	175.8983	1010.91	380.0923	553.5261
1798.199	2573.353	170.591011	234.6888	203.397	176.2774	1013.088	380.9115	554.719
1801.987	2578.775	170.950452	235.1833	203.8255	176.6488	1015.223	381.7141	555.8878
1806.094	2584.652	171.340022	235.7193	204.29	177.0514	1017.537	382.584	557.1546
1818.316	2602.143	172.499548	237.3145	205.6725	178.2495	1024.423	385.1731	560.9251
1829.413	2618.024	173.55228	238.7628	206.9277	179.3374	1030.674	387.5237	564.3483
1839.354	2632.249	174.495312	240.0601	208.0521	180.3118	1036.275	389.6294	567.4148
1847.49	2643.892	175.26714	241.122	208.9724	181.1094	1040.858	391.3528	569.9246
1857.525	2658.253	176.21914	242.4317	210.1074	182.0931	1046.512	393.4785	573.0203

1869.224	2674.996	177.329054	243.9586	211.4308	183.24	1053.104	395.9568	576.6294
1887.931	2701.766	179.103699	246.4001	213.5467	185.0738	1063.643	399.9194	582.4001
1888.432	2702.484	179.151269	246.4655	213.6034	185.123	1063.925	400.0256	582.5548
1894.202	2710.741	179.698645	247.2186	214.2561	185.6886	1067.176	401.2479	584.3348
1906.02	2727.654	180.819806	248.761	215.5928	186.8471	1073.834	403.7513	587.9805
1911.248	2735.136	181.315785	249.4433	216.1842	187.3596	1076.78	404.8588	589.5933
1915.994	2741.927	181.766	250.0627	216.721	187.8249	1079.453	405.8641	591.0573
1937.803	2773.137	183.834925	252.909	219.1878	189.9628	1091.74	410.4837	597.7849
1983.38	2838.362	188.158774	258.8575	224.3432	194.4307	1117.418	420.1384	611.845
1991.324	2849.729	188.912344	259.8942	225.2416	195.2094	1121.893	421.8211	614.2954
2016.213	2885.348	191.273591	263.1427	228.057	197.6494	1135.916	427.0935	621.9736
2022.76	2894.717	191.894624	263.997	228.7974	198.2911	1139.604	428.4802	623.993
2022.819	2894.801	191.900237	264.0048	228.8041	198.2969	1139.637	428.4927	624.0113
2025.628	2898.821	192.16671	264.3714	229.1218	198.5723	1141.22	429.0877	624.8778
2025.707	2898.934	192.174194	264.3817	229.1308	198.58	1141.264	429.1044	624.9021
2053.867	2939.233	194.845656	268.0569	232.316	201.3405	1157.129	435.0695	633.589
2056.606	2943.153	195.10557	268.4145	232.6259	201.6091	1158.673	435.6499	634.4342
2069.983	2962.297	196.374602	270.1603	234.1389	202.9204	1166.209	438.4835	638.5608
2085.356	2984.296	197.832946	272.1666	235.8777	204.4274	1174.87	441.7398	643.3029
2095.941	2999.444	198.83714	273.5481	237.0751	205.465	1180.834	443.9821	646.5683
2101.471	3007.358	199.361763	274.2699	237.7006	206.0072	1183.949	445.1535	648.2743
2103.482	3010.236	199.552538	274.5323	237.928	206.2043	1185.082	445.5795	648.8946
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2318.393	3317.789	219.940688	302.5811	262.237	227.272	1306.161	491.1041	715.1917
2344.069	3354.534	222.376538	305.9322	265.1413	229.7891	1320.627	496.543	723.1125
2349.239	3361.932	222.866946	306.6069	265.726	230.2958	1323.539	497.6381	724.7072
2370.337	3392.124	224.868452	309.3604	268.1124	232.3641	1335.426	502.1072	731.2156
2373.022	3395.968	225.123247	309.711	268.4162	232.6274	1336.939	502.6762	732.0441
2373.527	3396.69	225.171097	309.7768	268.4732	232.6768	1337.223	502.783	732.1997
2373.943	3397.285	225.210559	309.8311	268.5203	232.7176	1337.457	502.8711	732.328
2423.145	3467.697	229.878258	316.2526	274.0856	237.5409	1365.177	513.2936	747.5062
2612.607	3738.831	247.852065	340.9799	295.5159	256.1138	1471.918	553.4272	805.9525
2616.414	3744.279	248.213226	341.4768	295.9465	256.487	1474.063	554.2336	807.1269
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2684.059	3841.084	254.630602	350.3054	303.598	263.1183	1512.174	568.5629	827.9946
2780.845	3979.592	263.812495	362.9373	314.5457	272.6062	1566.703	589.0651	857.8518
2786.967	3988.352	264.393183	363.7362	315.238	273.2063	1570.151	590.3617	859.7401
2862.893	4097.009	271.596172	373.6456	323.8262	280.6494	1612.927	606.4452	883.1624
2867.2	4103.172	272.004753	374.2077	324.3134	281.0716	1615.354	607.3576	884.491
3018.427	4319.589	286.35129	393.9448	341.4188	295.8963	1700.554	639.3918	931.1423
3113.614	4455.809	295.381527	406.3681	352.1857	305.2276	1754.181	659.5554	960.5064
3140.362	4494.086	297.918968	409.8589	355.2111	307.8496	1769.251	665.2212	968.7575
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3291.336	4710.141	312.241548	429.5631	372.288	322.6496	1854.308	697.202	1015.331
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3933.51	5629.139	373.163118	513.3753	444.9253	385.6019	2216.103	833.2334	1213.433
4073.611	5829.634	386.454237	531.6604	460.7724	399.336	2295.035	862.911	1256.652
4199.264	6009.452	398.374602	548.0597	474.9851	411.6538	2365.826	889.5279	1295.414
4220.779	6040.242	400.41572	550.8678	477.4187	413.7629	2377.948	894.0855	1302.051
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**27**      **20**  
SCHU 783    SCU 20.84    SCHU 14.3

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1333.379	1908.162	126.494624	751.2133	411.3287	215.4579	174.0237	150.8205	130.7111
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