

Origin Data of Raman Spectroscopy

Raman (x)	PJ (y)	AB (y)	LS (y)	AT (y)	BR (y)	THC (y)
146,445	0	1425,593	3217,474	444,682	0	5366,694
152,872	2621,996	656,691	5371,824	1698,244	1822,973	4043,577
159,294	2867,571	2044,937	5005,246	1552,682	2735,936	5917,375
165,711	3281,783	3746,611	4656,177	1249,184	2000,227	3818,861
172,123	4408,891	2708,227	7362,539	1991,999	3110,817	2944,966
178,529	2586,571	3091,542	7690,541	2780,121	3452,491	5894,146
184,93	2083,176	2956,615	4087,82	880,737	1935,953	3193,256
191,326	2036,359	3251,463	4634,894	1796,061	1534,746	5219,431
197,717	4547,529	2985,374	4911,765	2192,253	2694,623	4569,511
204,102	2591,151	2451,394	5969,258	721,999	2447,001	4669,715
210,482	4101,892	4175,793	5740,591	1202,131	2097,874	3593,839
216,857	3595,938	971,314	5123,612	1167,936	2044,255	0
223,226	1999,654	3672,52	5537,424	1166,581	2258,996	4528,508
229,59	3619,003	1753,12	6423,717	641,038	1625,191	5083,976
235,949	2446,287	2252,734	6024,272	1117,842	1689,454	4572,136
242,303	1289,092	4507,323	5435,773	2307,308	1448,252	4956,394
248,651	3723,582	3691,073	4960,712	1705,941	2197,93	4871,787
254,993	2870,763	2548,494	5445,602	2026,72	2136,944	7356,057
261,331	3630,897	2845,085	4812,308	1688,341	1652,187	4830,649
267,663	2727,434	1979,655	4460,441	1876,129	1125,634	3440,719
273,989	4067,744	3517,106	8022,674	997,214	2228,68	4395,922
280,31	2026,962	1879,451	7191,948	790,517	2089,315	4619,513
286,626	871,854	1902,909	4104,718	1030,803	741,541	4431,854
292,936	2649,354	1397,891	6380,144	1364,878	1427,996	4247,439
299,241	1372,966	1508,967	4212,416	1389,048	1411,434	4669,378
305,54	468,259	2451,869	4528,672	652,584	1066,453	3153,07
311,834	3531,637	2630,161	5421,276	1311,578	2219,988	3847,95
318,122	2603,687	2386,383	4962,533	1538,625	2369,696	4836,407
324,405	2851,557	1561,243	3545,359	1554,516	1978,902	2902,603
330,682	3222,018	3801,268	4376,254	1793,803	3188,383	3966,683
336,954	1994,794	3118,842	4345,157	1216,273	1384,66	4216,818
343,22	3268,561	1088,134	5013,815	663,822	701,552	4800,529
349,48	1516,962	2162,72	2506,614	1740,538	367,771	4422,266
355,735	2930,11	--	5481,367	713,841	1284,732	2104,377
361,985	1481,211	894,204	4562,291	1130,945	628,568	5606,883
368,228	657,553	1766,442	4450,139	1785,104	1343,526	3592,411
374,467	2806,372	1456,072	6560,369	1016,635	1673,154	3982,693
380,699	2372,331	1883,469	6292,224	1076,768	1439,044	3395,807
386,926	2293,783	2617,086	8357,857	1312,325	653,841	4354,998
393,147	3208,243	2201,974	6573,922	1272,961	1455,298	5223,922
399,363	3933,329	1908,678	6178,388	949,02	2126,745	4535,309
405,573	3371,856	1209,141	6781,273	1368,247	1728,559	4168,494
411,777	2689,187	2911,431	4905,554	513,075	1226,891	5189,308
417,976	2313,183	3759,971	6449,26	1202,629	1503,851	4374,517
424,169	3976,095	3611,557	4620,872	1555,021	1871,939	2075,427

430,356	1368,775	2457,803	4702,324	1191,983	1736,78	4485,126
436,537	2298,086	2727,567	3364,381	1402,841	1073,925	5018,128
442,713	2238,632	787,622	4630,468	1651,307	2127,345	4860,32
448,883	1766,57	2107,15	4493,106	1992,032	1398,144	4509,738
455,047	2599,601	2858,305	4658,806	959,497	1009,703	2674,473
461,205	2742,13	3903,95	4226,107	2330,149	1440,631	4190,819
467,358	2440,602	1042,017	3176,937	534,741	1291,887	5031,708
473,504	1852,979	1697,887	5351,751	1690,568	1125,759	4517,044
479,645	2241,123	1423,232	4427,993	1380,177	1591,607	4624,609
485,78	701,992	1687,893	4576,871	1173,131	824,266	5020,209
491,91	2126,176	1846,928	7226,966	1115,809	2393,864	5183,184
498,033	1958,815	2092,625	5511,784	1593,869	1693,306	3974,101
504,15	3054,927	3069,086	4945,978	1546,746	1960,183	5380,429
510,262	2336,312	1154,62	5180,241	1518,717	1535,611	2846,116
516,368	2367,502	2084,783	5022,673	1134,488	1551,493	4521,599
522,467	3481,385	3794,399	4517,701	1007,468	2223,235	4804,435
528,561	1454,8	2359,876	4901,405	1347,709	1228,206	3773,408
534,649	3367,385	1638,606	4419,446	490,16	1062,43	3272,935
540,731	2701,825	1404,357	5022,183	1306,407	930,312	3760,854
546,807	2053,438	932,482	5036,757	1305,382	703,232	3901,368
552,877	3063,85	1533,829	7132,951	1135,104	1782,422	3293,301
558,941	1783,979	460,645	6194,39	1151,495	742,399	5609,767
564,999	2530,876	1573,31	4308,73	778,802	1194,528	4385,748
571,051	2034,335	2595,254	5375,711	750,481	951,598	2110,327
577,097	1779,246	1947,757	2702,816	1828,847	2035,543	5277,646
583,137	1797,539	1135,168	4144,67	826,942	1739,976	3953,617
589,171	2379,966	2246,277	5645,573	1282,289	1699,313	4475,073
595,199	1045,455	3979,184	3225,386	1109,63	1592,262	5531,875
601,221	2502,638	3462,021	3448,477	1753,323	1598,049	4669,824
607,237	2620,485	2121,559	6544,662	1644,918	1934,832	4203,505
613,246	3464,929	2146,663	7398,963	1634,984	2239,158	3465,214
619,25	3563,968	3295,029	8179,687	1482,45	1995,622	4132,697
625,247	4137,89	2971,774	7073,736	1862,051	2112,817	3627,413
631,239	3228,112	2420,873	4893,837	1267,523	1804,812	4789,268
637,224	2484,756	2173,155	5630,041	805,015	1696,441	4879,377
643,203	3530,373	2372,488	8275,17	1419,87	890,209	2276,913
649,175	2476,621	1529,546	5321,345	1432,976	1980,071	4986,339
655,142	660,305	1709,103	3975,151	443,2	1292,174	4794,803
661,102	3223,486	1865,936	3792,65	1545,94	828,7	4023,303
667,057	1074,298	181,772	4396,879	1598,573	1791,303	3995,994
673,005	3771,54	1143,484	3626,505	955,798	1212,655	4121,174
678,946	1849,064	1205,85	5172,859	866,741	1011,434	3541,788
684,882	2480,783	1512,191	5497,905	1347,554	2296,936	3244,956
690,811	1924,264	2239,713	6304,18	847,196	1902,8	4575,538
696,734	2596,149	3197,899	6763,611	1331,965	1847,849	4482
702,651	2638,2	2794,367	4887,543	1176,704	777,8	4505,046
708,561	2605,812	1139,682	4978,629	591,743	1924,825	4374,859
714,465	2468,231	2887,098	5531,316	1418,204	825,563	4236,919
720,363	2222,334	3355,258	4248,157	2721,75	1728,428	4534,348
726,254	1092,837	2245,145	4235,521	1014,249	1300,605	3399,604

732,139	2384,439	1795,942	4004,198	1213,584	1576,732	3302,4
738,018	2661,437	2149,863	4920,912	1424,342	1299,538	2893,479
743,89	1911,54	3381,616	4710,234	1775,418	1005,03	5885,451
749,756	2622,19	1286,866	5635,078	928,381	2053,972	3834,944
755,616	2663,235	2948,604	4836,32	1020,515	2040,184	5711,877
761,469	1419,348	1328,898	5389,821	1347,975	1617,539	4439,868
767,315	1414,677	403,811	4628,273	1152,039	819,346	5118,199
773,156	2081,13	1562,044	2377,903	1100,503	1022,836	3042,027
778,99	1279,814	2063,383	4070,405	509,062	886,099	4015,111
784,817	2325,124	1834,203	4126,685	1245,524	1317,143	4197,709
790,638	1719,672	1852,427	7708,289	1442,232	2243,017	3674,573
796,452	4074,845	2337,184	9643,392	1931,289	1596,454	4420,915
802,26	5749,247	4396,003	10411,91	656,536	2035,16	4456,584
808,062	3176,903	1693,113	7215,894	1100,407	1545,408	4821,713
813,856	2570,326	3324,81	6273,118	2009,525	2271,32	3964,824
819,645	1961,885	2657,181	4757,885	1111,253	1484,346	5489,759
825,427	2867,917	2673,868	4531,908	1441,201	1956,502	2669,293
831,202	1774,309	2855,091	5684,484	978,621	1545,762	3302,887
836,971	2209,76	1553,67	6352,34	1270,558	2014,416	3814,087
842,733	2692,31	2130,521	7916,269	1269,311	1995,105	5246,743
848,488	4191,998	2863,866	7771,376	811,035	1157,627	5020,207
854,237	2536,679	1498,675	6049,393	1075,445	2585,344	3168,324
859,979	2832,557	1957,197	8437,995	1426,305	1897,966	5041,331
865,715	3358,449	2065,367	7232,587	641,876	958,226	4093,416
871,444	1273,536	483,879	4568,866	1477,282	1322,63	5533,577
877,166	534,727	1847,716	1923,527	648,547	265,452	4244,926
882,882	1595,263	437,734	3506,786	1008,98	1280,701	4307,618
888,591	2538,06	2075,222	6837,155	1043,185	1138,743	4101,747
894,293	4498,406	1747,624	12270,74	1428,036	2805,198	4460,236
899,989	5066,059	2844,518	7321,102	1248,842	1054,973	4078,563
905,678	3343,787	3344,207	8049,021	1638,567	2422,744	3373,19
911,36	4531,919	2860,145	9825,605	1134,954	1589,714	3276,886
917,035	3701,403	2207,46	9956,652	1785,567	2703,335	4521,483
922,704	3847,176	2631,739	9063,827	1355,414	2027,298	4380,75
928,365	2349,014	4145,724	6489,283	1927,57	2438,936	2879,776
934,021	1841,032	2876,779	3268,767	1008,943	1415,521	2191,916
939,669	2461,63	1613,977	4031,914	1439,571	1154,528	4643,069
945,31	3493,03	3409,797	5047,968	1195,48	832,891	4361,349
950,945	351,053	2118,681	4217,613	581,205	1045,321	5258,915
956,573	2610,092	664,544	5045,409	778,128	1007,809	4427,39
962,194	3147,364	788,777	9144,279	1175,894	1907,938	3994,824
967,808	2642,951	1544,612	7578,085	--	1525,464	3840,515
973,415	987,366	1314,03	1938,093	1318,007	911,086	4741,56
979,015	1315,18	1853,771	1237,573	1013,19	1035,712	4030,06
984,609	1346,026	2884,517	6268,997	1312,555	1694,776	4174,118
990,195	4561,411	2646,597	7078,405	1477,999	1587,635	2774,193
995,775	4550,494	2441,405	6711,789	1226,909	2729,917	3389,401
1001,347	4824,748	2410,929	8848,271	1435,637	1920,554	4830,445
1006,913	5522,2	1727,67	11264,04	1565,533	2357,264	4991,526
1012,472	4665,423	4332,692	9776,01	2483,526	3059,922	7400,281

1018,024	4258,905	1863,935	10641,29	1404,158	2604,611	8948,654
1023,568	4180,615	2740,12	8440,228	1297,614	2056,844	10714,09
1029,106	3330,611	2025,201	5708,542	1772,782	1996,958	15735,78
1034,637	2413,269	2704,598	7596,104	1594,443	2039,969	16039,04
1040,161	4234,37	975,9	8424,31	678,052	2426,931	16310,58
1045,678	3386,227	2957,827	8046,583	704,105	1267,038	10110,51
1051,188	390,179	2851,043	2553,602	1599,97	949,528	7423,062
1056,69	2304,171	1312,394	4651,486	1514,551	897,326	4172,38
1062,186	2801,805	2585,063	5984,915	1072,682	1335,075	4207,374
1067,674	2426,519	1689,077	5058,794	1015,446	1336,162	3616,278
1073,156	3244,474	2276,496	7188,496	1272,527	1298,475	3067,055
1078,63	4167,505	1577,206	5420,541	600,457	1824,355	2805,262
1084,097	1400,634	1171,926	2806,672	1921,626	1089,78	3000,64
1089,557	2262,216	1670,758	3045,933	1225,087	1398,988	4584,642
1095,01	2219,427	2201,914	5268,246	1291,023	2592,534	4789,671
1100,456	4709,758	2847,894	9486,862	1418,463	2873,159	4991,265
1105,894	4254,137	3159,658	9482,59	1560,217	1953,19	2893,45
1111,326	3530,091	2146,08	7589,98	917,622	1076,56	5134,039
1116,75	3065,376	2330,784	6080,481	1137,789	1856,142	5355,864
1122,167	1187,891	2055,294	5482,96	1658,418	1522,274	5323,06
1127,577	2328,252	1191,97	6494,074	1232,666	1488,071	5001,667
1132,979	3560,458	1597,005	7297,919	1306,04	2199,713	4370,867
1138,375	1692,772	2018,212	3903,379	1209,847	1368,986	4480,838
1143,763	458,015	2031,871	3368,937	968,206	244,035	3663,464
1149,144	3253,108	2103,683	5157,137	941,666	1903,943	3600,35
1154,517	2644,664	1367,166	4446,113	1089,972	1987,508	4413,907
1159,883	844,151	913,51	2455,275	1723,119	1317,949	3355,208
1165,242	3169,851	2044,728	5367,524	1100,285	1224,162	2438,043
1170,594	2780,136	1837,978	6069,077	1185,643	1632,287	4367,474
1175,938	3440,584	2146,443	6912,368	1788,949	1522,282	4609,643
1181,275	4456,17	1564,731	7528,376	785,515	1570,792	4762,957
1186,604	3916,309	2036,685	5272,59	1198,415	1044,309	3086,584
1191,927	1517,84	1990,817	6240,226	1119,365	1245,922	4592,829
1197,241	4001,197	1060,144	5560,51	1276,493	1152,841	3906,638
1202,549	2589,51	2951,903	6342,081	1008,216	1961,051	3212,7
1207,849	2492,635	2406,941	4597,404	1708,295	1611,167	3973,106
1213,141	2799,896	2708,523	4053,486	2281,935	2029,179	4144,321
1218,426	2065,946	2138,05	5889,056	1336,142	2161,469	4136,378
1223,704	2946,87	1862,339	4966,368	1848,895	2030,459	3946,01
1228,974	1333,497	1851,383	5263,702	1431,921	1005,255	5479,563
1234,237	2040,157	2761,004	5730,347	1030,665	2264,811	5775,77
1239,492	1997,136	2225,547	2976,101	420,283	646,662	4801,083
1244,74	1537,108	1747,091	3497,107	1967,829	1342,464	4056,671
1249,98	2413,017	1862,698	4568,118	566,732	1055,661	3239,434
1255,213	2247,798	3131,276	4568,806	894,353	1886,02	4285,432
1260,438	2250,01	1068,321	5393,514	1833,292	1981,165	4131,423
1265,656	2177,238	1318,578	6290,455	1305,241	1555,494	3932,047
1270,866	2723,41	2465,496	5771,075	1893,308	1648,397	3458,661
1276,069	1966,672	2315,87	7177,103	1716,126	1734,962	5643,662
1281,264	1010,667	2100,64	4561,737	1279,792	858,964	3707,47

1286,451	2486,112	1548,173	3973,755	1217,014	1069,436	5895,277
1291,631	1942,653	1333,129	4374,714	1093,531	1339,919	3477,991
1296,803	2494,622	2172,903	4783,47	395,917	812,726	3341,297
1301,968	3806,401	1569,18	4789,003	1243,264	1644,752	4773,765
1307,124	1819,572	1470,624	4895,762	788,065	1169,087	3516,719
1312,274	2225,81	1751,471	4200,529	1446,313	1735,814	3420,026
1317,415	2630,831	1512,124	5424,333	1123,472	1436,795	5555,04
1322,549	2608,626	788,792	4888,049	1606,555	1085,993	3985,607
1327,675	2912,361	3053,439	7239,885	1857,964	2273,472	2768,524
1332,794	1996,518	1555,179	4998,011	704,021	1035,207	5660,676
1337,905	2451,026	3138,836	5291,507	1459,371	1521,711	4473,753
1343,008	980,221	1977,268	4066,01	1481,11	1617,258	5344,238
1348,103	2936,867	3521,17	6183,271	838,391	2269,016	4575,51
1353,19	1586,526	1681,858	3844,697	1419,917	1528,89	4168,628
1358,27	2177,714	4093,502	4770,04	1897,41	1636,316	5032,267
1363,342	3052,71	2421,212	6475,9	1339,342	2042,928	5522,538
1368,406	2913,56	3220,836	5996,804	1391,431	2088,621	3729,025
1373,463	1468,021	2174,601	4560,611	1084,329	1901,118	3698,942
1378,511	3413,538	2593,934	5738,256	1241,997	2408,306	4284,662
1383,552	2456,101	2667,635	4710,579	1020,863	789	2648,698
1388,585	3352,653	3742,797	5544,396	879,11	1070,367	3724,191
1393,61	2059,626	1178,995	3740,913	1204,522	473,653	4175,973
1398,627	2581,516	2670,757	4331,436	1162,441	2268,592	4774,938
1403,636	2219,597	1193,975	5097,101	1327,114	1398,95	4677,081
1408,638	2172,88	1658,043	3549,622	744,428	1879,278	3302,042
1413,631	1717,147	500,061	4712,972	2007,362	1294,78	5684,747
1418,617	3248,369	1602,895	4793,89	1767,878	1199,09	3037,714
1423,595	1040,979	1945,242	4685,947	602,63	1368,929	3694,434
1428,564	4517,998	3630,332	5034,253	1122,792	1933,024	4461,95
1433,526	3877,291	2898,776	5966,332	2368,232	3251,215	2781,617
1438,48	4429,868	3020,74	6024,265	1902,254	2184,725	3452,996
1443,426	4745,075	2187,333	7943,804	2100,758	2203,943	6241,708
1448,363	4691,45	1970,031	7248,3	2796,035	2437,77	7674,803
1453,293	2518,266	2286,139	6494,374	2463,208	2108,866	6874,687
1458,215	5052,151	1429,471	7261,29	1013,972	2087,171	7826,078
1463,129	4375,829	2648,483	5188,053	2311,578	2095,616	8602,173
1468,034	3741,954	1574,087	6373,256	641,068	2352,93	6426,819
1472,932	1273,279	1185,305	4149,496	798,35	1353,61	5563,405
1477,822	2236,478	2988,653	4466,959	921,367	1359,35	6653,087
1482,703	2115,826	1860,721	3509,061	1761,521	727,645	5238,82
1487,577	2565,724	1818,239	4562,303	409,871	1031,505	4254,884
1492,442	2506,568	2174,946	4241,335	1876,727	1447,384	3939,866
1497,299	1518,13	1657,029	7468,698	1593,134	1646,446	3556,553
1502,148	1215,206	1499,649	5593,107	1574,385	1296,112	3893,894
1506,989	3536,079	2350,103	3830,156	1779,509	746,186	3238,332
1511,822	167,753	1956,972	28,634	1875,898	1692,43	4470,956
1516,646	217,154	3234,809	--	1249,668	152,613	2951,197
1521,463	1738,809	1086,664	6317,189	975,714	1219,143	3531,266
1526,271	2908,227	1199,514	7869,85	1794,83	1989,044	4324,057
1531,071	4538,952	1851,495	8755,338	400,182	1868,098	1948,396

1535,863	4263,217	2728,228	10105,15	1731,178	1496,698	3819,366
1540,646	3185,766	2652,659	8077,694	2123,577	1593,512	5117,348
1545,422	2948,224	3519,041	9560,912	887,005	379,831	3525,096
1550,189	1673,786	1992,529	8323,134	467,852	1524,64	5471,875
1554,948	3297,321	2686,827	9984,681	1438,007	2095,768	4738,033
1559,698	2122,824	1195,207	7483,383	1230,693	1251,011	4338,048
1564,44	2960,625	476,546	5181,537	1264,17	1989,477	4293,169
1569,174	2620,442	4180,656	7393,276	1029,27	2308,51	4384,988
1573,9	2342,644	4714,841	7369,441	1924,744	2176,012	3425,767
1578,617	3733,463	2116,331	6906,483	1271,627	2559,437	4923,629
1583,326	2328,371	2866,727	3998,361	1449,728	3190,381	5165,814
1588,027	2504,89	1667,611	5893,964	452,812	2635,477	3023,947
1592,719	3089,104	4438,622	4402,281	1474,711	2234,753	3585,866
1597,403	1402,625	4215,829	5261,132	1538,295	2089,671	4536,959
1602,078	2761,667	3350,52	3861,141	1124,812	1999,906	4080,823
1606,745	4107,933	2818,15	7354,301	1077,519	1847,95	4834,229
1611,404	4065,255	3679,249	6563,242	2070,799	1839,521	3296,866
1616,054	2744,163	3239,162	5735,809	1095,435	2364,079	4198,247
1620,696	3348,154	222,063	8505,115	1938,155	970,943	5607,862
1625,329	3051,627	1488,113	6444,136	1568,827	1651,093	3922,247
1629,954	1154,92	2182,62	4974,081	1230,005	536,282	3426,946
1634,57	988,122	1812,767	3285,848	1344,463	718,866	4161,051
1639,178	1462,128	2136,403	4031,644	698,969	994,066	4183,207
1643,778	2592,614	1852,044	5943,445	1220,976	1411,521	3756,954
1648,369	3377,922	2449,104	8796,664	699,243	1692,922	3995,085
1652,951	2815,609	1884,511	4405,851	1477,366	1452,334	4202,016
1657,525	2218,804	1684,815	4144,333	970,944	1651,317	3853,159
1662,09	2829,689	2281,864	5302,142	1006,928	1605,034	3314,964
1666,646	4534,676	1730,918	8677,007	1207,644	1519,015	3414
1671,195	2396,837	2557,687	7741,52	1161,562	1387,715	3617,332
1675,734	3060,558	3154,746	4454,681	1194,345	1300,445	4249,305
1680,265	618,279	1421,418	3390,338	981,854	1509,208	4592,116
1684,787	2820,657	2012,778	5406,256	1525,434	1928,501	8440,388
1689,301	989,194	836,269	2358,407	1156,081	2094,945	4799,958
1693,806	3094,997	1841,146	7646,779	1765,916	1658,814	4351,113
1698,302	4092,775	3533,118	9552,745	1176,867	1980,959	4549,751
1702,79	4120,501	3371,337	3675,641	1204,682	1390,506	4165,356
1707,269	1023,401	1655,502	4152,108	1346,4	650,962	5169,659
1711,739	1539,36	1420,722	4079,73	1285,367	821,531	4307,678
1716,201	4026,639	1821,751	7221,425	1300,956	1229,989	4512,804
1720,654	2157,894	1284,618	5329,777	1148,243	1206,111	5599,925
1725,098	2206,135	1624,204	3757,643	706,842	1252,447	3301,946
1729,533	2805,295	2025,117	6622,931	838,373	1640,294	2070,838
1733,96	3325,884	2101,071	5153,646	950,344	1851,979	2353,888
1738,378	3107,975	2300,275	8295,326	1047,778	1294,992	2390,944
1742,787	2584,382	1890,32	5556,036	1317,805	1360,064	4640,773
1747,187	1809,784	918,776	4310,354	1193,765	1625,47	5868,986
1751,579	1676	1382,769	4979,053	1161,583	1587,294	4167,707
1755,962	2362,518	2062,426	7538,114	1256,562	1426,855	4374,352
1760,335	3296,147	2339,244	6137,084	1184,161	1293,291	4344,539

1764,701	3788,914	2333,901	6818,802	1074,061	1455,22	4599,778
1769,057	4693,189	2347,165	7487,213	935,228	1830,387	4569,959
1773,404	5128,889	2155,493	8442,177	940,223	2108,45	4487,62
1777,742	3630,523	2162,628	7339,747	1013,97	1977,788	5132,471
1782,072	848,32	2050,957	3702,595	1434,247	1338,04	4429,284
1786,393	1338,748	1943,387	2897,85	1237,348	1139,624	4051,768
1790,704	1663,011	2271,549	3254,762	1134,451	1020,79	3639,652
1795,007	1908,704	1569,31	3002,208	1249,391	994,289	3568,602
1799,301	3183,077	1009,708	7128,898	1117,477	1685,102	3691,213
1803,586	5756,744	1446,169	12258,28	1076,746	2565,835	4676,319
1807,862	4739,465	1883,851	10592,8	1155,438	1879,42	2775,089
1812,129	1628,105	3315,167	6984,027	1072,922	1479,97	2526,412
1816,387	1475,863	3889,177	3821,691	954,114	1243,732	2990,308
1820,636	1696,979	568,957	2518,864	1109,051	1254,42	4251,628
1824,876	2121,613	813,308	4314,792	727,248	1450,397	4252,609
1829,107	2457,182	1350,904	6191,439	1004,668	1427,493	4204,811
1833,329	2686,827	1957,765	5573,896	1059,736	1040,717	4262,041
1837,542	2630,502	2374,716	5637,126	1030,1	1294,845	4214,243
1841,745	2911,211	2632,593	5667,007	1223,532	1338,146	4071,537
1845,94	3729,626	2576,866	6536,105	1378,75	1402,581	3857,95
1850,126	4170,326	2006,281	6962,256	1443,115	1633,408	3819,366
1854,302	4942,581	2032,303	6919,87	1090,422	1586,224	3642,431
1858,47	2939,138	1891,483	7861,306	1204,052	1784,395	4009,07
1862,628	1409,794	1955,502	5935,359	1020,57	1301,407	4099,36
1866,777	1687,697	1865,932	5198,519	1300,819	1277,195	4440,998
1870,917	1170,776	1744,472	3665,737	1034,625	1339,658	4816,879
1875,048	1581,245	1884,893	3284,894	1093,026	1357,946	4904,769
1879,17	1047,271	2111,164	4050,877	1163,338	1298,122	4345,868
1883,282	1195,611	1625,929	3470,692	1323,018	1553,593	3626,729
1887,385	1750,187	1388,645	3057,76	969,969	1454,55	3569,124
1891,479	2081,184	1268,796	3908,137	1105,172	1430,939	3528,778
1895,564	2315,614	1647,708	4418,283	1231,749	917,638	3550,93
1899,64	2669,579	1957,318	4671,645	1396,612	1212,642	3852,59
1903,706	2704,837	2336,239	5098,29	1537,709	1468,882	3874,744
1907,763	2754,229	2297,361	6937,973	1625,941	1857,541	4344,61
1911,811	2476,64	2068,959	6135,804	896,555	1712,545	2941,897
1915,849	2550,048	2416,57	5288,394	775,102	1905,091	3534,925
1919,878	1730,766	2132,814	5158,398	868,648	1154,281	4281,618
1923,898	2165,909	1566,118	5348,423	1107,583	1207,692	4398,943
1927,909	2507,315	1544,872	5704,696	1217,038	1235,375	4412,518
1931,91	2871,262	1078,301	6108,31	1278,039	1402,873	4005,807
1935,902	2200,946	1224,846	5241,833	1636,596	1265,592	4166,693
1939,884	2156,104	1417,851	4890,666	1916,586	1317,691	4180,268
1943,857	2497,513	1743,773	5246,939	1181,977	1372,261	4284,875
1947,821	2943,183	2043,653	5353,396	1169,522	1280,044	4175,95
1951,776	3284,598	2326,864	5313,663	1230,52	1447,542	4189,527
1955,72	3587,086	2182,919	5373,851	1178,711	1299,632	4012,087
1959,656	1133,693	1884,809	3990,745	424,047	1413,831	3558,806
1963,582	1086,588	2103,421	3936,987	1010,27	1502,52	3605,883
1967,498	1697,215	1998,543	4346,986	1193,793	1449,684	3735,943

1971,406	1942,938	1225,581	3905,434	1091,789	1611,997	3881,749
1975,303	2181,165	1498,14	4021,503	1152,861	1383,303	4027,729
1979,191	2016,315	1868,311	4345,452	1068,015	1851,092	3698,001
1983,07	2254,544	2140,87	4705,644	1246,591	2188,875	3835,185
1986,939	2164,963	2799,96	5019,965	1334,599	1303,415	3911,642
1990,799	2427,629	1895,841	4933,572	1478,869	1089,908	4167,78
1994,649	2572,055	1553,046	5115,715	1044,224	1225,829	4112,985
1998,49	2734,666	1902,751	4661,901	851,099	1291,397	3201,059
2002,32	2205,808	1464,693	4920,303	938,005	1461,914	4320,806
2006,142	2195,078	2178,372	4716,675	1001,734	1786,537	4484,443
2009,954	2357,69	2804,102	4767,578	1711,786	1372,885	5583,624
2013,756	2425,169	1960,15	4933,912	1874,354	1306,543	3175,906
2017,549	1678,335	1795,427	5232,031	1445,704	1035,448	3162,414
2021,332	1821,962	1675,957	5555,047	394,687	1111,907	3569,654
2025,105	2337,401	1868,828	4865,625	919,757	1278,943	4422,173
2028,869	2590,35	2121,809	4874,329	1396,912	1566,608	4356,987
2032,622	3038,31	2040,074	5039,668	1452,445	1583,031	4307,606
2036,367	2935,443	2035,623	4805,192	1345,767	1646,366	4824,272
2040,102	2319,691	2328,878	4851,785	1258,8	1476,75	4784,827
2043,826	2424,061	1999,633	4501,844	1275,193	1544,243	4142,74
2047,542	2104,78	1596,187	4584,816	1103,708	1486,751	4177,443
2051,247	1859,129	1088,03	4003,129	975,562	1153,53	3647,753
2054,943	1584,063	1019,585	4421,913	1003,612	1160,558	3878,482
2058,629	1916,524	1427,838	4504,885	1088,79	1250,454	3981,583
2062,305	2078,952	1649,392	4997,017	999,417	1303,732	4143,785
2065,972	1939,436	2195,561	4967,833	957,487	1170,157	4040,491
2069,628	2309,235	1641,126	4232,468	1086,631	1366,945	3975,449
2073,275	2452,756	1745,154	4485,536	1131,919	1283,527	3778,895
2076,912	2218,902	2062,334	5152,615	1112,645	1246,951	3572,675
2080,539	2122,925	2287,013	5059,391	1543,714	1357,592	3816,848
2084,157	2173,32	2639,319	4765,919	2033,089	1458,51	3830,628
2087,764	2207,317	1442,61	4819,965	1848,905	1139,971	4124,127
2091,362	2074,937	1607,872	4780,586	1174,262	900,753	3848,713
2094,95	2455,69	1872,999	4836,158	1262,451	1260,401	3881,672
2098,528	2558,311	2109,336	4587,794	1257,875	1554,056	3300,657
2102,096	2499,615	1684,165	4529,666	980,582	1466,726	4003,144
2105,654	1661,327	1813,71	4858,488	991,247	1472,993	4057,692
2109,202	2068,726	2001,197	5009,875	1069,828	1619,259	4523,453
2112,741	3260,285	2411,991	5102,869	1061,805	1529,516	4092,129
2116,269	2862,073	2579,489	4880,656	1138,669	1591,244	4146,677
2119,787	2389,582	1591,478	4809,032	1172,812	1562,521	3568,24
2123,295	2147,701	1630,93	4626,114	1137,132	1618,93	3611,839
2126,794	2045,969	2132,619	4488,817	1151,307	1796,792	3679,269
2130,282	2264,669	2314,571	4698,749	1254,971	1700,729	4039,489
2133,761	2350,646	2420,443	4124,285	1293,495	1433,424	4056,007
2137,229	2374,019	2019,635	3530,334	1302,211	1209,525	4026,798
2140,688	2359,874	2598,546	5163,657	1290,276	1393,991	4043,317
2144,135	2784,692	2381,234	5734,873	1475,704	966,102	4200,192
2147,574	1866,254	1325,907	5427,607	1114,657	1120,816	4216,965
2151,002	1343,412	1126,803	4756,613	1096,308	1146,061	3877,525

2154,42	1798,013	2003,881	4691,679	421,188	1256,436	3775,122
2157,828	2290,497	1620,598	4828,052	963,644	1411,157	3821,256
2161,226	2100,485	1743,337	5019,647	1056,413	1441,711	4063,274
2164,613	2197,972	1037,836	4531,726	1263,445	1195,505	4167,089
2167,991	2202,7	1395,576	4480,452	1194,159	1380,225	3636,606
2171,358	2300,188	1518,315	4318,428	1011,884	1557,359	3644,424
2174,716	2376,251	2226,565	4365,931	1088,848	1528,74	3627,691
2178,063	1558,428	1815,405	4513,839	1005,632	1367,792	3654,708
2181,4	1656,231	1938,137	4670,474	1082,596	1434,546	4666,022
2184,727	2301,342	1464,405	4961,98	1047,651	1462,628	4528,607
2188,043	2398,476	1858,831	5208,686	1090,865	1369,355	4341,932
2191,349	2346,478	1985,873	5360,201	800,099	1364,348	4234,314
2194,645	2698,6	2310,473	5191,404	1221,114	971,796	3726,768
2197,931	2680,637	2240,52	4800,212	1235,989	1145,366	3617,044
2201,206	2689,959	2337,781	4494,831	1235,277	1217,867	3713,931
2204,472	2002,05	2205,896	4526,223	1191,984	1516,376	3715,818
2207,727	1952,535	2303,158	4530,842	1314,363	1355,13	4119,208
2210,971	1588,323	1202,072	4603,384	1390,181	1205,375	3720,88
2214,206	2023,533	1281,436	4815,883	1213,831	1386,72	3686,907
2217,43	2384,668	1577,787	4858,441	1047,748	1541,842	3752,05
2220,643	2413,43	1930,839	4751,456	954,622	1625,912	4166,544
2223,847	2209,813	1862,151	4678,405	989,628	1802,831	4157,289
2227,04	2309,825	1616,68	4640,963	1005,252	931,738	4496,348
2230,222	2184,972	1452,812	4683,521	1449,325	1145,084	4234,136
2233,395	2284,984	1349,841	4775,862	1730,965	1257,602	4156,13
2236,556	2194,619	1508,117	4964,968	1252,832	1410,893	4083,281
2239,708	2091,117	1667,044	5015,891	1156,246	1526,793	3895,831
2242,849	2186,004	2684,677	5111,451	1199,476	1564,007	3489,895
2245,979	2311,252	2702,361	5162,373	1306,766	1473,659	3681,195
2249,099	2056,91	2023,819	4520,727	1340,305	1555,814	3974,837
2252,209	1885,898	2163,294	3714,495	1167,429	1522,603	4097,019
2255,308	2467,359	2462,809	4991,66	1059,102	1603,511	4749,321
2258,397	2561,656	2296,18	5154,94	406,282	1537,689	4382,437
2261,475	2673,052	2462,461	4631,693	784,851	1393,779	4484,315
2264,542	2525,078	2113,342	4596,523	1152,108	1474,187	4077,344
2267,599	941,071	1329,454	4693,854	1272,061	1014,148	3314,775
2270,646	1864,482	888,415	5004,633	1293,892	860,213	3206,617
2273,682	1919,19	1181,247	4309,234	1264,665	1150,607	3395,418
2276,708	1918,891	1395,982	3889,294	1081,085	1231,016	3398,226
2279,722	2101,7	2583,817	4259,233	1146,602	1268,492	4212,394
2282,727	2756,561	3286,064	5254,338	1037,321	1346,858	4981,146
2285,72	2505,097	2766,19	6084,955	1053,396	1269,713	4755,817
2288,704	2542,888	2180,961	5111,142	1162,927	1496,839	4324,881
2291,676	2638,178	2345,882	4817,684	1189,341	1584,788	4223,074
2294,638	2818,227	2406,843	4985,79	1310,11	1658,164	4158,516
2297,589	1824,021	721,824	5259,254	923,735	1548,716	4061,261
2300,53	1939,153	1587,487	5318,287	1089,277	1219,808	4023,94
2303,459	2338,658	1848,595	5734,346	1203,046	1370,418	3817,653
2306,379	2644,684	2034,836	4228,802	1261,09	1445,504	3780,333
2309,287	2778,206	1901,459	4041,605	1237,433	1494,403	3996,06

2312,185	2273,871	1664,149	4486,234	1068,566	1212,432	3909,599
2315,072	1736,707	1797,196	4665,624	1145,086	1199,762	3955,469
2317,948	1851,372	1698,635	4764,018	1093,253	1285,399	4893,074
2320,814	910,284	1882,377	4718,294	1086,396	1281,859	5076,29
2323,669	1163,192	2028,332	4811,082	1168,196	1201,493	3921,021
2326,513	2428,824	1884,753	5142,532	1190,589	1277,787	3641,334
2329,346	2646,948	2030,709	4635,931	1134,889	1309,809	3714,413
2332,169	2306,902	2001,754	4553,472	1038,616	1895,282	3929,524
2334,98	2326,536	2229,249	4647,296	881,476	1701,862	4835,125
2337,781	1974,679	1518,706	4814,786	929,339	1102,882	4142,347
2340,571	2398,586	1341,337	5128,211	929,837	1107,234	4122,621
2343,35	4000,657	1414,216	4818,766	1092,664	1224,38	3364,026
2346,118	2009,327	1606,658	4354,697	1177,9	1786,434	3898,448
2348,876	1625,111	1562,998	4085,335	1225,632	1905,75	4069,723
2351,623	2488,071	1755,436	4873,389	1270,687	1982,557	4039,567
2354,358	2587,692	2038,048	5096,152	1109,108	1701,653	3559,392
2357,083	2345,497	2252,271	4990,176	1198,424	1373,315	3834,254
2359,796	2212,948	2036,363	5036,701	1369,62	1491,318	3885,117
2362,499	2239,502	1882,124	4457,319	1159,474	1162,944	3948,729
2365,191	2289,886	2096,352	4630,872	1248,792	1336,925	3843,596
2367,872	2318,627	2159,175	4798,132	1010,008	1454,928	3841,944
2370,542	2345,182	1925,571	4844,656	927,223	1549,776	4312,599
2373,201	2354,471	1584,794	4904,417	1080,29	1209,892	4440,756
2375,849	2430,823	1508,601	4940,396	1184,139	1327,887	4335,628
2378,486	2337,643	1298,6	4684,116	1189,37	1430,553	3717,237
2381,112	2067,902	1288,267	4654,637	932,787	1035,938	4104,532
2383,727	1817,402	1379,809	4513,391	442,704	860,464	4507,386
2386,331	1922,277	1564,724	4483,915	1118,603	1309,158	4639,089
2388,924	1957,674	1661,871	4496,329	1403,28	1654,682	4287,689
2391,505	1937,919	1954,689	4388,313	1394,668	1937,312	3891,254
2394,076	2101,558	2177,235	4363,645	1160,425	1838,196	4003,607
2396,636	2304,211	2357,405	4492,338	1132,93	1312,857	3683,145
2399,184	2191,957	2679,839	5251,618	1229,304	1316,328	3619,241
2401,721	2273,699	2088,365	5625,823	1240,05	1396,531	3602,099
2404,248	2478,617	1781,51	5004,709	1097,823	1536,252	3632,955
2406,763	3427,922	1923,411	5077,372	1125,148	1292,057	3614,575
2409,267	3367,108	2419,577	4587,271	1221,522	1247,324	3278,358
2411,76	1225,526	2980,396	4692,009	1349,346	1387,045	3490,408
2414,241	2070,598	2113,369	4797,173	1230,586	1064,524	3945,015
2416,711	2269,495	1358,464	4869,839	776,498	1131,933	4183,455
2419,17	2330,684	1211,563	5048,027	668,557	1325,186	4550,536
2421,618	2153,042	1347,155	4953,684	1007,842	1640,72	4570,117
2424,055	2229,236	1532,052	5066,448	1152,492	1467,059	4257,3
2426,48	2466,219	2015,233	5023,311	1195,48	1443,522	3633,92
2428,895	2651,768	1882,052	4774,936	1195,991	1535,45	4039,239
2431,297	2446,311	1992,156	4704,882	1262,457	1443,537	4200,439
2433,689	2552,148	1930,124	3799,971	1319,661	1400,098	5984,6
2436,069	2087,281	1508,035	4064,34	1299,252	1394,359	5149,14
2438,438	2201,273	1754,052	4441,826	1102,95	1254,112	4963,439
2440,796	2243,21	2027,799	4956,281	1013,543	1293,958	3180,964

2443,142	1654,613	2273,816	5081,261	1078,169	1417,461	3102,405
2445,478	1557,685	2720,617	5045,663	990,828	1433,011	4025,5
2447,801	1693,949	2408,804	4905,645	1012,797	1515,264	4531,37
2450,113	1855,505	1714,174	4940,625	1077,424	1341,205	4294,054
2452,414	2743,692	1805,838	4860,28	1210,706	1255,957	3920,187
2454,704	3116,776	1441,737	4746,097	1152,419	1197,274	3869,688
2456,982	3212,076	1702,436	4494,219	1201,848	1044,456	3684,228
2459,249	3265,944	1658,679	4548,146	921,729	1127,885	3485,04
2461,504	3320,992	1782,786	4847,518	1474,882	1187,666	3626,713
2463,748	2065,733	2043,485	4976,89	1650,456	1362,657	3611,103
2465,98	2090,374	2125,385	5332,156	1187,916	1446,086	4001,787
2468,201	2240,558	1725,308	5078,856	1156,796	1417,089	4264,128
2470,41	2335,858	1381,795	5208,226	1218,313	1430,894	4248,519
2472,608	2666,479	1757,314	4803,976	1310,214	1363,72	4917,73
2474,794	2761,779	2018,024	4764,648	933,985	1402,153	4069,345
2476,969	2954,689	2333,727	3943,132	895,393	1148,395	4051,337
2479,133	303,373	1529,625	4648,397	1117,019	1680,096	3753,124