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## MPEC 2021-A07 : DAILY ORBIT UPDATE (2021 January 3)

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M.P.E.C. 2021-A07

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DAILY ORBIT UPDATE (2021 January 3)

Update to 2021-A04

Full-precision elements for the objects listed here are available at <https://www.minorplanetcenter.net/iau/MPCORB.html>

**New identifications:**

J98S04P	K11S02F		Doppler
K02TV3B	K15PF4W		Doppler
K03Sf7S	K05B47Z		Doppler
K03Ud2T	K14SK1V		Doppler
K06C32K	K17B38N		Doppler
K06J60E	K10E07C		Doppler
K06QH9N	K15PC4J		Doppler
K11S73N	K07W64E	K11SR8V	Doppler
K08SM3C	K14DD8H		Doppler
K09R37D	K16N06U		Doppler
K09S85Y	K14OP0L		Doppler
K09SV5N	K14P81G		Doppler
K09WC6P	K09WP2Z		Doppler
K11B21E	K17D65G		Doppler
K11B97D	K15X52J		Doppler
K11FC3C	K15HF6A		Doppler
K11Ub6Y	K15P45B		Doppler
K15U55D	K12B62O	K17B74V	Doppler
K12X64C	K14EO7U		Doppler
K03Ud4U	K13K05H		Doppler
K11UV8P	K14M65A		Doppler
K13GB9V	K14OR0D		Doppler

**New multiple-opposition orbits:**

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Opp	C
J92W10P	15.9	0.15	K20CH	110.642	228.892	50.819	10.094	0.05638	3.18443	10	X
J95O14T	17.5	0.15	K20CH	22.634	191.275	194.420	5.096	0.31228	2.56693	6	X
J97A11Z	17.2	0.15	K20CH	56.383	88.568	278.240	1.280	0.17106	2.54193	9	X
J97H18M	17.6	0.15	K20CH	234.792	348.818	213.131	5.948	0.06691	2.33578	9	X
J97S07K	17.1	0.15	K20CH	4.615	255.216	160.167	5.194	0.21802	3.15092	7	X
J97W13P	17.2	0.15	K20CH	0.761	344.613	62.729	15.127	0.17522	2.77519	5	X
J97X10E	24.5	0.15	K20CH	355.614	24.964	72.585	6.314	0.47826	1.87212	2	V
J98S04P	18.9	0.15	K20CH	22.001	210.941	179.470	14.058	0.26145	2.67085	3	V
J98SH7Z	17.0	0.15	K20CH	335.678	265.250	180.036	21.666	0.06971	2.68124	9	X
J98SH8U	18.3	0.15	K20CH	3.958	259.767	166.817	3.467	0.18699	2.35842	8	X

J99B08R	18.2	0.15	K20CH	29.834	262.705	105.915	3.675	0.21518	2.17250	9 X
J99F98D	17.5	0.15	K20CH	61.330	270.892	51.707	7.605	0.16574	2.23939	11 X
J99R65X	17.5	0.15	K20CH	25.008	162.763	189.248	4.773	0.30877	2.59776	5 X
J99U18M	18.0	0.15	K20CH	26.887	173.410	185.214	5.220	0.32297	2.60204	5 X
J99V46A	17.4	0.15	K20CH	358.278	206.566	219.920	36.363	0.35079	2.59778	3 X
J99VD4J	17.1	0.15	K20CH	330.051	241.846	230.332	10.946	0.20056	2.59509	8 X
J99VN3U	16.8	0.15	K20CH	323.893	236.960	227.984	10.402	0.08870	2.99138	10 X
J99XL8O	16.5	0.15	K20CH	333.067	333.715	103.929	24.088	0.16622	3.08239	6 X
K00E24D	16.4	0.15	K20CH	0.417	260.725	182.304	18.911	0.25319	3.09344	8 X
K00E24P	16.0	0.15	K20CH	336.194	119.489	1.746	17.156	0.08402	3.11096	8 X
K00F53J	17.9	0.15	K20CH	341.019	274.915	170.953	1.477	0.08092	2.37020	10 X
K00J96D	16.9	0.15	K20CH	354.465	52.476	41.915	22.441	0.05125	2.68176	7 X
K00RB3A	19.2	0.15	K20CH	59.286	103.776	193.951	6.288	0.17158	2.23758	5 V
K00W27W	17.3	0.15	K20CH	20.277	308.547	97.937	10.444	0.06784	2.54462	11 X
K00YE5J	15.9	0.15	K20CH	8.593	183.974	228.160	9.322	0.10699	3.54826	7 X
K01DB4N	17.6	0.15	K20CH	348.319	244.285	176.631	4.135	0.22987	2.58359	5 X
K01FM6X	17.1	0.15	K20CH	354.960	182.040	186.865	9.378	0.07841	3.16447	5 V
K01K80Z	17.0	0.15	K20CH	6.751	208.604	226.847	12.982	0.18366	2.60677	9 X
K01QG4X	17.6	0.15	K20CH	61.608	218.110	119.932	4.189	0.25909	2.40054	9 X
K01QR9J	17.3	0.15	K20CH	49.784	200.263	131.800	15.670	0.24456	2.41947	8 X
K01TQ4K	16.7	0.15	K20CH	102.668	108.329	212.584	5.628	0.02677	2.79482	11 X
K01U97A	17.1	0.15	K20CH	6.588	310.110	121.184	3.296	0.08216	2.41211	10 X
K01UNOS	17.4	0.15	K20CH	120.737	195.255	100.459	6.976	0.12797	2.41026	10 X
K01UN9O	17.8	0.15	K20CH	27.644	152.261	233.059	8.202	0.18209	2.42256	7 X
K01UN9S	18.1	0.15	K20CH	49.969	267.931	85.523	2.379	0.20030	2.42661	7 X
K01W05B	17.6	0.15	K20CH	115.071	222.602	64.359	23.016	0.06497	1.95865	7 X
K01W92C	17.4	0.15	K20CH	48.052	221.128	110.805	2.670	0.18526	2.45509	10 X
K01W97E	16.7	0.15	K20CH	299.762	58.898	60.345	14.976	0.11871	2.84630	7 X
K01X01Y	17.4	0.15	K20CH	42.750	292.405	83.055	3.236	0.19306	2.43519	10 X
K01Y03V	20.6	0.15	K20CH	18.003	244.347	107.258	5.200	0.71889	1.94677	3 X
K01Y76G	17.3	0.15	K20CH	325.184	22.900	67.589	5.886	0.17456	2.46743	6 X
K02CW1V	18.1	0.15	K20CH	11.963	255.427	147.018	1.702	0.30050	2.46862	5 X
K02GJ1S	17.1	0.15	K20CH	126.526	223.942	53.011	15.045	0.26347	2.59179	4 V
K02J13Y	17.9	0.15	K20CH	151.557	245.351	48.961	26.140	0.03289	1.81553	6 X
K02JF2B	16.1	0.15	K20CH	150.902	178.561	70.280	15.535	0.03678	3.06944	9 X
K02L65M	16.2	0.15	K20CH	63.717	262.213	75.217	9.104	0.18092	3.17849	7 X
K02N16M	16.9	0.15	K20CH	47.208	236.075	114.851	10.091	0.29120	2.31842	9 X
K02N46X	17.1	0.15	K20CH	20.898	178.441	181.923	6.475	0.47250	3.29818	5 X
K02P89F	16.6	0.15	K20CH	36.454	121.321	240.926	11.717	0.28118	2.69120	6 X
K02PA0W	17.4	0.15	K20CH	35.491	251.977	120.266	6.958	0.19259	2.31733	13 X
K02PBOX	18.2	0.15	K20CH	35.899	257.715	111.412	5.700	0.24276	2.32139	7 X
K02Q80T	16.4	0.15	K20CH	327.801	304.572	144.181	22.326	0.03640	2.66396	10 X
K02QE1E	16.0	0.15	K20CH	30.327	92.554	319.479	25.226	0.13760	3.16834	6 X
K02QE9G	17.5	0.15	K20CH	62.952	233.263	104.772	6.752	0.19437	2.32150	14 X
K02QE9S	16.4	0.15	K20CH	352.983	264.306	150.420	16.328	0.21036	3.21075	8 X
K02QE9T	16.5	0.15	K20CH	98.305	141.314	164.180	7.300	0.12385	3.17936	10 X
K02QF0C	17.8	0.15	K20CH	34.597	231.400	123.023	7.440	0.21353	2.33224	8 X
K02R45J	17.3	0.15	K20CH	45.192	241.996	128.855	4.697	0.25391	2.68111	6 X
K02RF5M	16.3	0.15	K20CH	340.378	104.208	343.509	21.841	0.04879	2.66596	7 X
K02RI1D	17.6	0.15	K20CH	33.900	4.261	8.486	9.431	0.23168	2.33322	6 X
K02RL8K	17.9	0.15	K20CH	36.840	261.450	121.869	4.997	0.23496	2.32178	11 X
K02RR5M	18.0	0.15	K20CH	24.212	236.308	162.225	6.663	0.16112	2.32030	7 X
K02RT6J	18.5	0.15	K20CH	34.419	131.643	238.615	4.393	0.25179	2.33426	5 X
K02T67S	19.1	0.15	K20CH	14.979	322.973	79.415	9.692	0.48800	2.34851	6 X
K02TL2T	16.1	0.15	K20CH	30.524	288.588	94.553	12.283	0.19081	2.69381	11 X
K02TU4S	18.1	0.15	K20CH	44.431	216.857	156.267	6.270	0.12070	2.33000	9 X
K02TV3B	17.9	0.15	K20CH	9.796	264.863	125.733	8.936	0.11238	2.72770	4 V
K02TW2J	15.9	0.15	K20CH	323.928	253.337	185.687	11.566	0.05975	3.25320	12 X
K02TY6N	18.2	0.15	K20CH	9.472	278.069	133.780	6.074	0.15194	2.33822	8 X
K02TD1F	16.2	0.15	K20CH	29.800	83.544	317.409	24.118	0.20006	3.23041	6 X
K02V93C	17.1	0.15	K20CH	352.301	14.738	70.018	6.679	0.06498	2.33843	11 X
K02VE6T	16.6	0.15	K20CH	307.115	261.465	226.368	11.249	0.12650	2.72039	8 X
K02X23J	16.7	0.15	K20CH	26.117	130.468	267.560	13.155	0.19363	2.71833	6 X
K02X46A	17.5	0.15	K20CH	314.960	182.000	289.163	19.579	0.06210	1.88837	9 X
K02Y04Q	15.3	0.15	K20CH	325.713	139.783	357.743	26.154	0.30485	3.31344	9 X
K03A23F	20.9	0.15	K20CH	68.588	43.967	286.767	23.227	0.42593	0.87466	3 V
K03B85B	16.9	0.15	K20CH	314.698	354.788	133.810	5.186	0.15233	2.77846	11 X
K03FD4Q	17.8	0.15	K20CH	109.602	170.878	128.399	6.572	0.17728	2.16826	8 X
K03G64J	13.8	0.15	K20CH	327.499	225.547	202.384	26.176	0.03771	5.10556	8 X
K03017J	17.2	0.15	K20CH	69.191	190.749	141.090	4.391	0.22935	2.57058	7 X
K03035R	16.7	0.15	K20CH	52.073	208.920	161.104	12.849	0.18659	2.55210	10 X
K03P00N	17.3	0.15	K20CH	38.808	197.640	144.992	15.556	0.27482	2.59281	7 X
K03R15J	17.2	0.15	K20CH	25.525	160.901	218.038	13.175	0.26088	2.60197	6 X
K03S12Q	17.1	0.15	K20CH	31.239	194.345	181.509	6.205	0.21244	2.59625	9 X
K03S41V	17.2	0.15	K20CH	67.735	158.205	155.369	19.372	0.29376	2.59389	6 X
K03SH5U	18.1	0.15	K20CH	53.357	33.745	341.894	17.828	0.08307	1.97755	8 X
K03SM8N	17.4	0.15	K20CH	356.722	221.441	185.484	4.848	0.23922	2.61698	8 X
K03SQ1O	17.6	0.15	K20CH	357.062	186.757	224.743	6.868	0.35969	2.63054	3 X
K03ST6A	17.5	0.15	K20CH	74.605	113.199	217.510	12.596	0.21638	2.58791	7 X
K03SV0M	17.4	0.15	K20CH	16.861	30.155	20.064	17.153	0.25772	2.59672	4 X
K03SX6B	19.0	0.15	K20CH	7.263	293.650	116.248	7.240	0.34237	2.61937	3 X
K03SX9U	17.4	0.15	K20CH	28.628	283.961	80.138	10.712	0.18906	2.62786	5 X
K03SY3A	16.2	0.15	K20CH	354.736	65.000	0.053	15.159	0.21733	3.12111	8 X
K03Sd2L	17.0	0.15	K20CH	336.591	328.631	102.266	5.129	0.13334	2.61880	11 X
K03Sf7S	17.5	0.15	K20CH	2.924	279.894	117.825	6.931	0.13956	3.16584	5 V
K03Si8M	16.7	0.15	K20CH	17.411	84.059	332.582	18.444	0.20320	3.08743	6 X
K03Si9F	17.8	0.15	K20CH	356.799	205.708	233.506	9.065	0.29631	2.60229	4 X
K03T40C	16.7	0.15	K20CH	306.522	283.177	222.051	11.552	0.22513	2.58476	11 X
K03T56J	18.1	0.15	K20CH	5.797	297.533	103.070	4.912	0.23320	2.61943	5 X
K03T57P	17.6	0.15	K20CH	50.678	189.669	166.270	4.361	0.23077	2.59983	7 X
K03T64U	17.6	0.15	K20CH	351.856	75.269	10.939	24.567	0.38684	3.15164	5 X
K03T65M	16.8	0.15	K20CH	311.869	291.625	180.147	22.294	0.20061	3.14184	4 X
K03U03G	18.0	0.15	K20CH	8.906	202.357	196.340	30.783	0.30044	3.16438	3 X

K03U060	15.9	0.15	K20CH	37.697	21.228	13.180	17.980	0.17043	3.12683	6 X
K03U73Q	17.9	0.15	K20CH	359.989	192.812	216.574	13.860	0.25570	2.63203	3 X
K03UHOS	15.7	0.15	K20CH	56.830	83.712	277.208	21.086	0.01196	2.59020	14 X
K03UN7V	16.1	0.15	K20CH	347.785	210.453	234.329	17.262	0.21819	3.17192	8 X
K03US6X	16.9	0.15	K20CH	24.506	346.915	38.684	9.337	0.04841	3.16725	5 V
K03UTOT	16.1	0.15	K20CH	41.842	291.074	48.946	15.636	0.17017	3.21279	6 X
K03UWOD	17.8	0.15	K20CH	25.015	282.894	110.504	6.678	0.15572	2.25188	10 X
K03UW5W	15.9	0.15	K20CH	300.340	251.002	253.907	9.034	0.05507	3.02075	11 X
K03UY2L	16.3	0.15	K20CH	91.164	86.950	203.534	13.033	0.19401	2.58787	7 X
K03UZ2Y	17.3	0.15	K20CH	57.668	350.320	34.030	17.660	0.13539	2.56818	6 X
K03Ub5U	16.2	0.15	K20CH	247.333	340.061	202.747	8.881	0.03335	3.07064	9 X
K03Ud2T	16.9	0.15	K20CH	30.479	220.352	146.152	9.869	0.08080	3.17934	5 V
K03Ud4U	16.4	0.15	K20CH	75.028	231.744	72.504	17.268	0.18578	3.18627	6 V
K03Ud5T	15.6	0.15	K20CH	242.746	82.721	104.742	11.720	0.05641	3.13809	11 X
K03Ue5H	16.2	0.15	K20CH	23.546	225.284	173.698	8.587	0.10423	3.11726	12 X
K03Ue7Y	17.9	0.15	K20CH	38.173	252.092	106.181	4.902	0.15272	2.25993	9 X
K03Ug8X	16.5	0.15	K20CH	260.159	317.766	219.621	10.470	0.12456	3.10690	7 X
K03Ug9H	16.4	0.15	K20CH	276.358	315.333	214.489	14.571	0.15765	3.15468	8 X
K03Uh0A	17.6	0.15	K20CH	32.343	36.768	357.333	13.186	0.25753	2.63334	9 X
K03Uh0P	18.7	0.15	K20CH	27.932	192.650	203.428	3.817	0.16451	2.25487	4 X
K03Uh8E	17.0	0.15	K20CH	41.216	257.845	91.147	4.501	0.20880	2.62236	9 X
K03Ui7C	17.5	0.15	K20CH	74.981	108.336	213.713	10.611	0.17673	3.14279	5 V
K03V13Q	17.5	0.15	K20CH	329.382	232.350	235.352	10.619	0.14432	2.61844	3 X
K03W18G	16.5	0.15	K20CH	330.585	210.785	264.332	17.840	0.14740	2.61119	7 X
K03W52O	16.1	0.15	K20CH	57.367	343.172	45.342	28.203	0.07975	3.10599	5 X
K03W70R	16.6	0.15	K20CH	358.180	170.835	266.291	8.222	0.09476	2.60212	9 X
K03WA4T	16.6	0.15	K20CH	331.868	228.816	245.232	30.777	0.21750	2.62834	8 X
K03WH4V	17.2	0.15	K20CH	11.260	195.167	222.773	27.311	0.16263	3.13641	2 V
K03WL5G	18.3	0.15	K20CH	25.602	233.297	134.548	4.190	0.22053	2.27220	5 X
K03WL5S	18.0	0.15	K20CH	57.499	102.644	236.456	11.543	0.30077	2.61335	5 X
K03X16Z	17.3	0.15	K20CH	354.779	348.983	84.046	15.071	0.22561	2.63217	4 X
K03X40E	17.5	0.15	K20CH	357.433	359.320	79.451	9.822	0.21497	2.62254	5 X
K03X44S	16.0	0.15	K20CH	20.379	296.661	72.767	18.031	0.18426	3.22692	8 X
K03X45F	17.3	0.15	K20CH	28.621	282.844	83.165	11.116	0.18952	2.64737	6 X
K03Y00J	20.3	0.15	K20CH	187.109	165.636	89.749	19.472	0.19871	0.93031	4 X
K03Y30H	17.4	0.15	K20CH	339.805	2.400	77.537	14.409	0.26550	2.64730	3 X
K03Y38G	17.5	0.15	K20CH	327.119	25.290	69.345	13.610	0.25453	2.64368	5 X
K03YB0G	17.4	0.15	K20CH	34.658	281.296	100.737	7.157	0.17744	2.26869	11 X
K04B65T	18.5	0.15	K20CH	16.335	295.260	105.870	2.540	0.19343	2.28943	8 X
K04BA3C	17.4	0.15	K20CH	335.843	78.163	59.827	27.608	0.45555	2.65254	4 X
K04E39C	17.3	0.15	K20CH	271.717	339.935	178.326	22.938	0.17992	2.32091	8 X
K04FH3Y	18.1	0.15	K20CH	339.013	271.002	183.754	4.853	0.17641	2.31419	8 X
K04H80J	17.2	0.15	K20CH	337.669	3.934	113.391	24.362	0.16834	2.30694	7 X
K04H81U	16.7	0.15	K20CH	283.894	299.558	184.595	8.838	0.10733	2.78315	10 X
K04K08M	17.1	0.15	K20CH	168.937	118.016	143.943	4.362	0.09856	2.37049	13 X
K04L26K	13.6	0.15	K20CH	20.004	254.875	117.068	18.650	0.08642	5.25307	11 X
K04Q29P	17.6	0.15	K20CH	44.837	230.404	128.279	3.327	0.20066	2.47451	9 X
K04RH2E	17.1	0.15	K20CH	321.355	288.596	157.363	7.589	0.03998	2.47438	10 X
K04RO4O	17.4	0.15	K20CH	34.324	330.514	3.187	10.823	0.09135	3.05286	3 V
K04RZ8W	16.8	0.15	K20CH	355.252	242.921	187.588	6.373	0.15539	2.99200	9 X
K04Ra3D	19.1	0.15	K20CH	57.983	39.702	343.422	19.145	0.07422	1.89295	5 X
K04TK1O	17.3	0.15	K20CH	13.048	177.259	231.988	16.969	0.19071	3.04035	3 X
K04V94X	16.2	0.15	K20CH	75.468	96.396	237.721	8.781	0.10496	3.06858	10 X
K04VD2T	16.5	0.15	K20CH	339.878	229.131	217.619	8.955	0.04034	3.04559	9 X
K04X52M	16.0	0.15	K20CH	338.582	1.833	89.332	12.461	0.11144	3.08232	8 X
K04XJ5P	17.8	0.15	K20CH	336.180	266.502	197.037	3.596	0.15015	2.52777	7 X
K04XJ6K	16.8	0.15	K20CH	45.274	275.527	93.992	4.978	0.25073	2.53439	8 X
K04Y24N	17.9	0.15	K20CH	23.919	72.359	322.208	1.775	0.28022	2.53898	5 X
K04Y28B	18.2	0.15	K20CH	1.860	349.068	52.323	4.793	0.18301	2.19280	5 X
K04Y41T	17.6	0.15	K20CH	23.777	253.091	135.734	4.780	0.26618	2.55289	5 X
K05A00G	18.7	0.15	K20CH	15.542	263.721	144.669	3.752	0.14153	2.18997	8 X
K05A66O	16.6	0.15	K20CH	324.057	331.489	121.474	19.101	0.20210	3.13768	6 X
K05A83G	15.8	0.15	K20CH	36.987	284.724	94.944	14.688	0.16372	3.12255	10 X
K05A84H	16.7	0.15	K20CH	46.158	256.956	119.829	17.719	0.23310	2.53646	7 X
K05B51Q	17.2	0.15	K20CH	37.612	295.160	87.690	6.179	0.19587	2.56539	9 X
K05C63F	15.6	0.15	K20CH	0.478	103.051	332.829	18.738	0.20456	3.11554	11 X
K05C77Y	16.4	0.15	K20CH	351.892	291.429	125.968	16.954	0.23739	3.15584	6 X
K05C89O	18.1	0.15	K20CH	57.579	302.547	344.783	7.401	0.11321	2.30410	9 V
K05EK2M	16.1	0.15	K20CH	294.968	139.032	53.577	28.447	0.21240	3.12670	8 X
K05EY7X	16.5	0.15	K20CH	337.553	276.936	175.122	26.167	0.27104	3.18771	6 X
K05GN6U	16.7	0.15	K20CH	341.449	112.419	353.740	18.126	0.07929	3.17261	9 X
K05H11N	17.1	0.15	K20CH	338.342	94.380	31.956	24.632	0.36973	3.13732	5 X
K05J22N	18.4	0.15	K20CH	51.320	347.806	50.699	25.084	0.04637	1.97823	7 X
K05J87T	17.5	0.15	K20CH	72.600	250.292	88.667	24.560	0.08976	2.00672	7 X
K05M26U	16.6	0.15	K20CH	105.959	190.044	98.651	26.484	0.08216	2.76161	6 X
K05Q10S	18.8	0.15	K20CH	12.729	229.905	150.691	15.797	0.47892	2.42049	4 X
K05Q75E	17.5	0.15	K20CH	14.620	251.248	156.105	4.639	0.14261	2.37676	9 X
K05QB9Y	17.3	0.15	K20CH	2.778	265.864	155.853	5.868	0.12110	2.36540	10 X
K05QH0F	17.7	0.15	K20CH	63.675	227.707	108.147	7.840	0.22291	2.38441	8 X
K05QK6E	18.4	0.15	K20CH	18.899	175.123	206.753	5.179	0.24516	2.39846	4 X
K05S63L	18.4	0.15	K20CH	28.663	184.875	197.324	2.103	0.19752	2.39871	4 X
K05SD2F	17.4	0.15	K20CH	355.012	69.668	16.442	21.959	0.31331	2.40206	4 X
K05SF7N	17.7	0.15	K20CH	1.942	274.332	149.365	1.453	0.16909	2.39555	9 X
K05SL2F	18.9	0.15	K20CH	19.787	178.797	223.417	1.174	0.15324	2.39764	4 V
K05ST0W	18.7	0.15	K20CH	19.232	199.663	196.405	2.166	0.18841	2.39960	4 X
K05ST9D	18.4	0.15	K20CH	220.383	22.595	181.868	22.110	0.06226	1.82752	6 X
K05SU2M	19.3	0.15	K20CH	64.215	140.588	193.253	1.726	0.21881	2.40034	3 V
K05T39O	17.1	0.15	K20CH	9.840	13.178	29.684	26.058	0.18682	2.41066	5 X
K05T93Q	17.9	0.15	K20CH	356.651	138.712	305.249	2.644	0.21200	2.38842	8 X
K05TJ6W	18.3	0.15	K20CH	16.541	196.983	207.980	6.613	0.10683	2.39304	4 X
K05UT0A	17.2	0.15	K20CH	309.850	246.545	252.717	7.611	0.13835	2.39789	7 X
K05Um2H	18.3	0.15	K20CH	19.576	152.931	221.034	7.706	0.29157	2.41481	4 X
K05Un1W	17.8	0.15	K20CH	49.520	269.840	76.161	15.148	0.27753	2.40614	5 X

K05V14R	17.8	0.15	K20CH	46.131	211.818	145.699	5.570	0.24189	2.40680	6 X
K05VF3S	19.0	0.15	K20CH	333.785	21.268	69.541	3.446	0.14461	2.41255	2 V
K05XC3T	17.6	0.15	K20CH	42.670	274.573	106.519	4.341	0.18191	2.41929	6 X
K05Y54J	16.4	0.15	K20CH	340.598	338.157	115.235	9.959	0.08528	2.97407	7 X
K05Y74C	16.1	0.15	K20CH	75.204	229.149	95.599	10.777	0.21455	2.99708	12 X
K05Y76K	16.6	0.15	K20CH	116.988	205.408	88.752	11.771	0.07842	3.01644	8 X
K05Y84Z	17.6	0.15	K20CH	23.606	271.781	91.847	3.468	0.21332	2.45577	8 X
K05YC9J	17.7	0.15	K20CH	7.621	333.162	58.623	3.450	0.20006	2.45611	9 X
K06A95Q	18.6	0.15	K20CH	324.034	343.217	133.488	4.700	0.19198	2.44695	6 X
K06AA8R	17.6	0.15	K20CH	21.315	264.376	110.135	4.978	0.25554	2.48076	8 X
K06AB5T	16.2	0.15	K20CH	355.624	263.718	166.707	6.973	0.27741	3.96857	5 X
K06B00C	19.1	0.15	K20CH	311.662	281.462	320.815	18.101	0.82727	1.40626	4 V
K06B29W	15.3	0.15	K20CH	13.467	287.597	119.583	10.147	0.20092	4.00016	6 X
K06B36S	18.9	0.15	K20CH	19.942	96.955	314.730	20.178	0.10152	1.86085	6 X
K06BL0A	16.2	0.15	K20CH	104.755	156.205	143.436	22.158	0.07302	3.12665	7 X
K06C28U	16.1	0.15	K20CH	13.377	240.650	147.549	17.272	0.11953	3.06474	7 X
K06C32K	16.6	0.15	K20CH	168.640	269.851	296.860	8.067	0.05000	3.17505	6 V
K06C64J	18.1	0.15	K20CH	43.704	171.371	96.645	7.569	0.08146	2.18739	9 X
K06F38R	16.6	0.15	K20CH	65.531	209.327	137.187	5.021	0.17757	2.55552	11 X
K06G57O	19.0	0.15	K20CH	219.928	15.033	184.148	22.426	0.02312	1.89799	6 X
K06H5R	16.7	0.15	K20CH	306.922	278.115	218.946	5.949	0.20404	3.05528	9 X
K06J60E	17.0	0.15	K20CH	330.451	51.666	51.691	20.184	0.12923	3.15492	6 V
K06J84K	17.5	0.15	K20CH	340.044	217.214	227.779	13.643	0.04578	2.56768	8 X
K06K60S	16.6	0.15	K20CH	31.058	265.093	102.567	11.421	0.34318	2.67885	9 X
K06K61H	18.1	0.15	K20CH	65.828	236.952	101.952	8.664	0.18508	2.22572	6 X
K06KB8T	18.3	0.15	K20CH	188.128	115.986	108.197	23.269	0.05063	1.92155	5 X
K06O39Z	14.0	0.15	K20CH	356.866	265.173	137.917	22.535	0.02984	5.22100	7 X
K06P14P	17.0	0.15	K20CH	31.804	169.798	179.490	4.226	0.25991	2.75664	5 X
K06P17P	17.1	0.15	K20CH	57.149	170.658	169.732	2.555	0.22400	2.73659	8 X
K06Q08X	15.7	0.15	K20CH	20.696	217.198	158.080	18.755	0.09382	3.55178	10 X
K06Q10S	16.8	0.15	K20CH	11.949	165.590	209.031	11.638	0.33123	2.78807	6 X
K06Q19F	18.1	0.15	K20CH	55.411	211.450	129.006	2.514	0.24635	2.27762	7 X
K06Q41W	17.4	0.15	K20CH	63.441	228.687	104.218	7.175	0.13574	2.27149	11 X
K06Q71S	18.3	0.15	K20CH	19.249	254.139	146.948	6.553	0.16342	2.27139	9 X
K06Q76S	17.2	0.15	K20CH	357.451	280.113	146.460	4.841	0.10722	2.71129	9 X
K06QE6V	17.7	0.15	K20CH	34.518	239.167	148.640	5.469	0.11844	2.71571	6 X
K06QH9N	17.6	0.15	K20CH	68.288	316.097	351.548	4.304	0.06287	2.75988	7 V
K06R17W	16.8	0.15	K20CH	41.170	182.114	195.817	20.054	0.26850	2.74479	6 X
K06R65W	17.9	0.15	K20CH	18.490	305.409	94.846	6.357	0.19370	2.27912	8 X
K06S49T	17.4	0.15	K20CH	27.656	311.082	50.241	6.364	0.17230	2.29380	7 X
K06S67F	18.4	0.15	K20CH	356.773	87.688	5.789	12.246	0.36302	2.74576	5 X
K06SC0X	17.9	0.15	K20CH	59.322	204.123	138.993	6.818	0.20927	2.28833	6 X
K06SU2D	18.5	0.15	K20CH	84.090	137.647	190.978	22.015	0.08033	1.96778	6 X
K06S22H	16.5	0.15	K20CH	31.946	136.992	216.683	9.976	0.30265	2.78568	7 X
K06Se3U	17.7	0.15	K20CH	21.567	184.799	217.561	12.009	0.11139	2.76826	4 X
K06Sj3L	17.9	0.15	K20CH	23.354	194.884	193.066	4.039	0.08064	2.75334	4 V
K06T41P	17.8	0.15	K20CH	346.744	339.224	81.985	7.980	0.20926	2.31219	8 X
K06T54F	18.7	0.15	K20CH	30.789	172.755	206.507	5.277	0.20320	2.30568	5 X
K06T66G	17.7	0.15	K20CH	56.180	205.830	147.192	4.952	0.16462	2.28283	9 X
K06TD6T	18.4	0.15	K20CH	1.238	254.469	176.136	5.852	0.06650	2.29930	6 X
K06U02T	17.5	0.15	K20CH	18.146	245.934	133.931	7.033	0.13145	2.31085	12 X
K06U22C	19.0	0.15	K20CH	27.295	160.744	220.634	3.244	0.25916	2.29818	5 X
K06U68R	18.4	0.15	K20CH	20.759	337.920	65.537	4.760	0.23570	2.29401	4 X
K06UH3E	16.4	0.15	K20CH	326.031	18.446	72.313	10.478	0.15649	2.78223	10 X
K06UL0T	17.6	0.15	K20CH	10.095	166.418	259.511	4.489	0.20761	2.29488	7 X
K06UX5A	18.0	0.15	K20CH	212.266	186.959	53.877	23.276	0.03866	1.96844	5 X
K06Ua5Y	17.8	0.15	K20CH	348.677	323.738	96.130	6.859	0.14783	2.30493	10 X
K06Ua8P	17.2	0.15	K20CH	339.615	220.341	249.911	10.913	0.20300	2.76760	7 X
K06Ub4H	17.0	0.15	K20CH	126.445	158.911	131.947	5.128	0.04126	2.80436	7 X
K06Uc7Z	16.9	0.15	K20CH	102.265	207.889	81.469	13.750	0.07129	2.84565	7 V
K06W00Q	17.5	0.15	K20CH	25.307	359.122	63.108	24.513	0.18275	2.28444	7 X
K06W13U	18.6	0.15	K20CH	23.834	167.684	223.226	5.261	0.16898	2.31657	6 X
K06W45U	16.8	0.15	K20CH	112.663	193.500	105.695	4.577	0.07230	2.77657	11 X
K06WA7D	16.6	0.15	K20CH	67.949	256.292	96.458	9.573	0.09047	2.77878	8 X
K06WD2Q	18.1	0.15	K20CH	35.626	140.917	238.916	14.391	0.20411	2.79000	2 X
K06WH5Y	18.2	0.15	K20CH	5.944	200.143	222.841	4.841	0.19678	2.31485	6 X
K06WK8T	17.9	0.15	K20CH	309.307	19.389	116.163	5.750	0.17142	2.31584	7 X
K06WK9B	17.5	0.15	K20CH	348.217	97.425	26.856	23.810	0.27746	2.30593	4 X
K06WM8E	17.5	0.15	K20CH	324.638	0.692	111.890	5.638	0.09499	2.76749	8 X
K06X19Y	18.0	0.15	K20CH	17.744	305.010	93.120	3.858	0.20026	2.33065	8 X
K06Y06C	17.0	0.15	K20CH	3.212	317.500	84.683	14.462	0.19100	2.83814	5 X
K06Y21Z	17.1	0.15	K20CH	59.542	248.947	77.709	7.340	0.11972	2.36854	11 X
K06Y68A	18.4	0.15	K20CH	350.378	223.117	227.023	1.972	0.18801	2.32053	4 X
K07A12F	17.8	0.15	K20CH	359.834	302.761	111.726	21.490	0.41123	2.30832	3 X
K07A34H	17.6	0.15	K20CH	23.378	255.055	111.459	5.813	0.25320	2.36127	11 X
K07B09Z	17.8	0.15	K20CH	353.156	329.364	102.930	7.531	0.08283	2.35506	7 X
K07B16E	18.0	0.15	K20CH	32.649	282.195	109.072	4.847	0.22561	2.33490	7 X
K07BA4P	17.8	0.15	K20CH	359.884	270.920	138.335	7.087	0.19447	2.36264	9 X
K07BA7L	17.8	0.15	K20CH	21.394	287.315	84.435	6.140	0.23893	2.36759	6 X
K07C03E	18.0	0.15	K20CH	321.494	186.438	316.449	24.091	0.18302	2.32861	4 X
K07D55X	16.1	0.15	K20CH	55.304	186.695	154.302	17.836	0.05728	3.01423	9 X
K07EH4T	16.6	0.15	K20CH	274.424	320.485	199.177	9.527	0.05275	2.97178	9 X
K07EO0V	16.5	0.15	K20CH	153.031	178.660	40.008	15.900	0.06437	3.12835	9 V
K07G81Q	16.6	0.15	K20CH	211.928	134.892	26.853	11.625	0.07791	3.12202	6 V
K07H32K	16.3	0.15	K20CH	333.303	230.813	224.106	10.029	0.10680	3.00317	10 X
K07H43H	17.1	0.15	K20CH	56.094	117.645	201.737	13.666	0.28897	2.55030	9 X
K07H53F	16.3	0.15	K20CH	74.424	145.012	192.042	9.966	0.09063	3.12372	10 X
K07HA1F	17.2	0.15	K20CH	20.698	327.262	72.659	6.461	0.05705	2.46401	6 X
K07HA1H	16.5	0.15	K20CH	51.899	267.908	99.583	10.408	0.08406	3.09419	9 X
K07HA1T	16.4	0.15	K20CH	275.211	298.345	223.728	9.883	0.06206	2.98770	8 X
K07HA4V	15.9	0.15	K20CH	341.054	11.489	53.457	26.731	0.04270	3.05998	7 X
K07J18N	16.1	0.15	K20CH	163.587	159.948	96.708	18.759	0.18124	3.09754	7 X
K07J33M	16.3	0.15	K20CH	156.588	75.161	189.314	10.181	0.08513	3.09572	11 X

K07J37D	16.3	0.15	K20CH	85.148	237.748	95.882	12.487	0.09137	3.10524	11	X
K07L08W	17.2	0.15	K20CH	25.577	253.576	91.140	28.548	0.41619	2.60701	3	X
K07M25B	17.0	0.15	K20CH	129.583	175.869	107.074	8.195	0.10340	2.53570	10	X
K07N07S	16.7	0.15	K20CH	88.058	226.291	94.464	16.082	0.14976	2.55899	6	X
K07P54H	17.5	0.15	K20CH	25.449	240.378	155.809	13.665	0.27554	2.60596	4	X
K07Q20F	20.0	0.15	K20CH	14.146	183.991	194.722	1.612	0.19399	2.18603	3	V
K07RA3R	18.0	0.15	K20CH	27.201	175.877	179.763	8.565	0.32891	2.65428	4	X
K07RN7M	18.8	0.15	K20CH	27.669	151.420	236.360	2.076	0.17508	2.16936	4	X
K07RO7J	17.8	0.15	K20CH	354.907	246.729	186.906	2.330	0.20247	2.59491	6	X
K07RQ1X	17.6	0.15	K20CH	13.560	283.674	124.210	4.458	0.12372	2.61696	6	X
K07RQ4J	14.2	0.15	K20CH	358.432	212.742	179.667	11.341	0.04405	5.27942	9	X
K07RR9A	16.6	0.15	K20CH	101.151	213.338	88.009	13.784	0.24166	2.57783	7	X
K07RT8Q	17.0	0.15	K20CH	24.581	249.396	120.718	5.566	0.20166	2.64890	7	X
K07RX7P	15.8	0.15	K20CH	40.260	1.189	49.743	25.036	0.09906	3.22210	7	X
K07RY1O	16.0	0.15	K20CH	136.992	320.878	349.878	21.096	0.06040	3.21181	6	X
K07Ra5Z	18.6	0.15	K20CH	32.763	346.527	20.381	13.586	0.29246	2.64536	2	V
K07T85C	19.0	0.15	K20CH	31.084	304.170	65.832	2.999	0.31329	2.65014	2	V
K07TE6Y	17.5	0.15	K20CH	353.727	204.945	222.601	8.979	0.42327	2.67101	3	X
K07TLLM	17.7	0.15	K20CH	349.129	218.467	224.912	11.685	0.26533	2.64447	5	X
K07TT4C	17.3	0.15	K20CH	354.870	184.921	226.792	13.471	0.24001	2.68859	5	X
K07TU7Z	19.3	0.15	K20CH	3.532	341.920	29.997	10.935	0.32553	2.68685	2	V
K07TY5W	17.9	0.15	K20CH	16.234	251.330	153.463	3.671	0.19075	2.61107	6	X
K07Tk3W	17.3	0.15	K20CH	333.849	262.167	185.352	21.704	0.09486	2.59615	5	X
K07Tm6W	17.6	0.15	K20CH	312.018	0.052	69.999	10.743	0.14190	2.72513	3	V
K07Tn2Y	18.9	0.15	K20CH	344.748	40.782	44.239	5.715	0.10463	2.17988	6	V
K07U39Z	17.0	0.15	K20CH	24.267	231.516	141.253	7.459	0.17674	2.67080	10	X
K07U45X	18.0	0.15	K20CH	19.723	149.836	244.907	6.328	0.19929	2.64918	4	X
K07U60L	17.1	0.15	K20CH	8.358	186.465	230.882	21.416	0.04191	2.65045	3	X
K07U68R	18.2	0.15	K20CH	354.531	235.836	199.010	2.685	0.17652	2.63894	5	X
K07U74L	17.0	0.15	K20CH	244.988	336.895	220.163	11.129	0.12454	2.61468	8	X
K07UD2F	17.8	0.15	K20CH	20.359	290.675	98.864	7.003	0.28526	2.64992	3	X
K07UF8B	18.0	0.15	K20CH	6.684	196.977	198.875	12.849	0.28575	2.64466	2	X
K07UG0C	17.7	0.15	K20CH	33.819	301.377	33.447	5.782	0.06716	2.71174	4	V
K07UG0D	18.7	0.15	K20CH	30.581	174.054	204.882	8.106	0.25717	2.65733	2	V
K07UG0E	17.2	0.15	K20CH	100.781	239.369	63.203	24.745	0.11669	2.68076	5	V
K07V42X	18.5	0.15	K20CH	332.959	7.804	96.560	8.043	0.11090	2.18845	5	X
K07VC8O	17.6	0.15	K20CH	304.617	242.178	212.849	21.295	0.04691	2.67454	4	V
K07VK7F	18.8	0.15	K20CH	95.582	239.188	40.740	3.227	0.06436	2.22938	6	V
K07VO0O	16.5	0.15	K20CH	351.300	330.464	80.287	14.694	0.05979	2.68262	7	X
K07VR4B	16.3	0.15	K20CH	28.386	122.048	265.053	17.215	0.28901	2.64220	5	X
K07VT2D	16.7	0.15	K20CH	9.361	314.434	69.799	14.449	0.26635	2.69659	5	X
K07Vb0B	17.1	0.15	K20CH	277.040	279.208	237.756	13.943	0.11199	2.68167	6	X
K07Vb0G	17.6	0.15	K20CH	347.527	202.834	235.149	21.093	0.04245	2.66359	4	X
K07Vb0M	16.4	0.15	K20CH	354.120	236.405	179.847	5.052	0.27463	3.51910	8	X
K07X13H	15.4	0.15	K20CH	340.377	1.138	82.407	12.867	0.05287	3.48861	9	X
K07X19V	17.5	0.15	K20CH	10.776	162.144	258.666	13.137	0.22942	2.64620	4	X
K07X44H	16.7	0.15	K20CH	45.155	272.542	88.301	14.526	0.18518	2.68415	7	X
K07X56F	17.4	0.15	K20CH	347.040	10.622	76.080	8.459	0.24366	2.66315	5	X
K07Y21S	16.5	0.15	K20CH	346.121	294.670	120.430	5.698	0.10513	2.74026	8	X
K07Y21X	16.8	0.15	K20CH	352.198	316.570	116.162	3.784	0.17246	2.69899	9	X
K08A08T	17.3	0.15	K20CH	340.339	316.121	121.536	4.375	0.17762	2.73858	6	X
K08A24D	18.0	0.15	K20CH	340.450	348.971	94.390	4.306	0.01159	2.25870	7	X
K08A40S	18.1	0.15	K20CH	339.335	341.298	106.762	6.497	0.03709	2.24925	9	X
K08AA8H	17.6	0.15	K20CH	320.269	346.729	128.024	20.418	0.23193	2.71561	3	X
K08AE3O	17.9	0.15	K20CH	314.657	5.860	125.817	9.853	0.18044	2.71546	4	X
K08B01S	18.5	0.15	K20CH	294.849	261.791	246.111	20.148	0.08348	1.91753	7	X
K08CM0W	17.8	0.15	K20CH	3.733	265.245	138.828	5.687	0.13570	2.27065	7	X
K08CM2H	18.4	0.15	K20CH	2.506	301.916	127.622	5.823	0.12515	2.24811	7	X
K08D39J	17.7	0.15	K20CH	320.479	273.664	183.134	5.873	0.16361	2.27790	9	X
K08D72P	17.5	0.15	K20CH	333.703	295.332	161.581	5.012	0.11412	2.75894	6	X
K08EA2K	16.9	0.15	K20CH	38.926	38.177	3.554	15.654	0.15736	2.74554	6	X
K08F49C	16.9	0.15	K20CH	81.475	94.615	185.457	10.664	0.05634	2.99362	7	V
K08FE7H	17.1	0.15	K20CH	103.528	179.149	83.172	4.769	0.11148	2.99455	5	V
K08G03Q	18.7	0.15	K20CH	352.630	142.509	355.991	25.528	0.52117	2.17676	2	X
K08G20M	18.4	0.15	K20CH	288.287	298.823	212.437	4.989	0.08818	2.29381	9	X
K08G60J	16.8	0.15	K20CH	93.859	219.291	71.609	7.136	0.13504	2.37758	10	X
K08H28X	17.7	0.15	K20CH	32.011	195.894	187.392	5.653	0.17125	2.31864	11	X
K08J12F	16.9	0.15	K20CH	266.994	58.271	108.322	13.228	0.04632	2.89010	10	X
K08Q02N	17.3	0.15	K20CH	40.564	271.780	122.278	6.135	0.07711	2.41839	11	X
K08Q28U	18.0	0.15	K20CH	43.736	217.212	144.803	8.117	0.25005	2.47216	5	X
K08Q51P	14.1	0.15	K20CH	213.632	234.429	284.872	2.793	0.02240	5.29383	9	V
K08R34C	17.1	0.15	K20CH	8.914	69.616	350.904	21.011	0.26180	3.20247	4	X
K08R69D	16.3	0.15	K20CH	76.073	123.136	207.616	8.098	0.19760	3.20049	8	X
K08RGLJ	16.6	0.15	K20CH	26.526	86.951	315.614	25.017	0.28625	3.19043	6	X
K08RH5Q	14.2	0.15	K20CH	244.191	131.251	356.479	31.152	0.01188	5.16576	4	V
K08SE7F	15.8	0.15	K20CH	32.310	32.034	13.671	16.428	0.19623	3.17200	8	X
K08SH7L	16.5	0.15	K20CH	8.637	44.705	34.100	23.875	0.24826	3.20680	4	X
K08SK5M	15.8	0.15	K20CH	305.161	311.285	168.642	6.497	0.02986	3.25823	11	X
K08SM3C	14.4	0.15	K20CH	20.537	351.830	356.264	18.380	0.03265	5.29067	5	V
K08ST9W	16.1	0.15	K20CH	297.702	134.611	31.866	22.371	0.06799	3.12278	8	X
K08SV4J	16.1	0.15	K20CH	233.849	334.615	229.169	11.799	0.13619	3.19743	7	X
K08SV8J	16.8	0.15	K20CH	40.333	183.928	191.575	8.901	0.13189	3.15197	8	X
K08T43O	16.4	0.15	K20CH	28.636	152.647	234.730	12.499	0.10598	3.22887	7	X
K08TA2N	17.4	0.15	K20CH	57.035	3.799	21.234	15.016	0.10968	2.45524	4	X
K08TJ9D	17.1	0.15	K20CH	30.903	112.537	267.207	10.671	0.29238	2.55572	6	X
K08TL3Z	17.1	0.15	K20CH	336.794	265.491	187.636	5.454	0.13022	3.19761	5	X
K08U15W	16.2	0.15	K20CH	290.337	295.945	203.460	10.953	0.05154	3.19682	9	X
K08U88E	14.4	0.15	K20CH	340.553	235.807	181.506	15.705	0.05790	5.18221	9	X
K08Ub5R	17.2	0.15	K20CH	335.316	321.481	116.861	6.080	0.20202	2.54310	8	X
K08V13V	17.4	0.15	K20CH	356.468	306.431	119.918	3.251	0.04787	2.51651	10	X
K08V66M	17.8	0.15	K20CH	1.295	319.852	85.151	14.669	0.25043	2.54132	4	X
K08VA2O	17.7	0.15	K20CH	15.529	331.395	74.345	7.389	0.28566	2.54846	6	X
K08W62J	17.2	0.15	K20CH	15.406	279.354	103.887	4.040	0.20534	2.55415	10	X

K08W89V	16.1	0.15	K20CH	33.560	279.430	94.415	13.440	0.19666	2.57846	10	X
K08Y14Q	17.3	0.15	K20CH	310.202	47.466	93.732	6.713	0.16410	2.55163	6	X
K08Y24S	17.1	0.15	K20CH	31.319	190.298	158.993	6.827	0.32304	2.56051	9	X
K08Y95J	17.6	0.15	K20CH	298.282	50.615	104.989	9.432	0.21922	2.56427	4	X
K08YD5Q	16.8	0.15	K20CH	76.779	238.539	90.604	15.283	0.15763	2.57597	10	X
K08YE8Y	16.0	0.15	K20CH	79.220	228.850	94.235	13.368	0.13969	2.58442	15	X
K08YJ0X	17.5	0.15	K20CH	39.836	267.912	91.621	5.322	0.26848	2.57931	5	X
K09A55N	17.2	0.15	K20CH	48.576	251.034	105.155	8.584	0.20437	2.57725	6	X
K09A62P	19.3	0.15	K20CH	3.155	85.128	338.936	1.113	0.28809	2.54850	3	V
K09B61E	17.6	0.15	K20CH	359.352	278.963	153.480	5.796	0.26628	2.55488	6	X
K09B61F	17.8	0.15	K20CH	328.400	312.855	161.243	4.808	0.21989	2.56670	6	X
K09B95Y	17.3	0.15	K20CH	37.673	135.141	240.403	4.599	0.25798	2.56046	7	X
K09BB6H	17.6	0.15	K20CH	25.217	282.948	114.005	5.819	0.13164	2.57776	4	X
K09BK9Q	18.2	0.15	K20CH	3.017	254.528	165.703	3.848	0.26857	2.55659	4	X
K09C00D	22.7	0.15	K20CH	178.756	333.534	304.997	22.774	0.26385	0.90127	3	X
K09C03N	17.4	0.15	K20CH	3.057	358.629	76.558	5.295	0.19331	2.56207	7	X
K09D40T	17.5	0.15	K20CH	341.705	319.387	134.199	4.660	0.20928	2.58111	8	X
K09DE7H	16.4	0.15	K20CH	313.301	288.220	169.050	22.091	0.06373	2.67156	6	X
K09F28Z	17.4	0.15	K20CH	341.221	341.128	110.507	5.497	0.13928	2.64117	10	X
K09F48L	16.5	0.15	K20CH	6.449	238.677	158.991	6.609	0.07225	2.72483	8	X
K09H35Y	16.7	0.15	K20CH	323.687	99.215	48.303	29.443	0.30979	2.59352	5	X
K09H51S	18.0	0.15	K20CH	347.237	78.108	21.551	17.168	0.08498	1.83639	5	X
K09H82D	21.6	0.15	K20CH	44.111	147.962	191.232	5.800	0.47669	1.25379	4	X
K09O26W	16.9	0.15	K20CH	349.272	139.981	312.762	23.593	0.23106	2.30114	6	X
K09P03P	17.9	0.15	K20CH	62.575	142.005	203.369	6.252	0.21337	2.31953	9	X
K09Q22Q	16.7	0.15	K20CH	359.054	64.278	340.595	23.333	0.48507	3.11317	3	X
K09Q24Q	17.4	0.15	K20CH	17.104	73.495	323.755	12.116	0.21100	2.34389	7	X
K09Q45V	18.0	0.15	K20CH	51.444	182.462	162.982	6.079	0.24908	2.33986	7	X
K09Q67Q	17.9	0.15	K20CH	32.238	239.806	112.990	2.311	0.19807	2.35049	6	X
K09Q77K	17.2	0.15	K20CH	65.200	79.232	253.941	7.139	0.15733	3.01589	5	V
K09R23H	17.2	0.15	K20CH	15.936	312.787	17.136	5.788	0.26450	3.18098	4	V
K09R23Q	18.1	0.15	K20CH	358.419	281.075	125.423	5.152	0.24907	2.36151	5	X
K09R27X	16.4	0.15	K20CH	20.109	176.608	229.964	9.636	0.09708	2.99239	11	X
K09R33R	16.9	0.15	K20CH	25.266	40.081	18.698	15.589	0.15366	3.01146	5	X
K09R37D	18.8	0.15	K20CH	91.541	12.794	278.471	4.594	0.22362	2.34394	3	V
K09R79G	18.1	0.15	K20CH	26.466	248.563	147.302	6.785	0.15915	2.32291	6	X
K09S69Q	19.0	0.15	K20CH	3.953	294.589	129.608	3.290	0.22596	2.36341	4	X
K09S77C	16.8	0.15	K20CH	9.472	301.977	83.298	6.219	0.17892	3.12595	7	X
K09S85Y	16.9	0.15	K20CH	329.095	40.806	354.870	9.757	0.06871	3.14267	6	V
K09SA0O	16.9	0.15	K20CH	11.317	60.906	349.833	19.927	0.42960	3.07917	4	X
K09SJ7U	17.1	0.15	K20CH	34.866	157.615	222.959	8.232	0.10556	3.04765	8	X
K09SJ8O	16.8	0.15	K20CH	42.540	151.933	220.876	8.602	0.14772	3.04587	6	X
K09SK4R	18.2	0.15	K20CH	32.174	169.469	201.135	5.827	0.26818	2.36925	4	X
K09SN1T	18.2	0.15	K20CH	338.982	232.273	205.976	2.771	0.21901	2.36640	6	X
K09SN7M	17.7	0.15	K20CH	22.517	290.416	74.015	6.678	0.25833	2.37732	6	X
K09SV5N	17.7	0.15	K20CH	53.856	314.538	36.279	5.313	0.12836	3.01952	4	V
K09SY4G	19.1	0.15	K20CH	29.746	128.207	212.036	6.071	0.15019	2.39955	2	V
K09SZ1K	16.7	0.15	K20CH	316.412	260.049	220.914	8.083	0.08912	3.04127	6	X
K09SZ8K	18.5	0.15	K20CH	359.923	69.128	358.469	9.022	0.48356	3.09308	2	X
K09Se4D	16.3	0.15	K20CH	37.555	293.371	40.102	26.033	0.27050	3.17924	6	X
K09Sf1G	17.4	0.15	K20CH	340.503	197.194	244.850	4.018	0.12918	3.07662	6	V
K09Sf1H	18.0	0.15	K20CH	11.097	346.679	25.155	11.232	0.20930	3.13052	2	V
K09T00C	16.1	0.15	K20CH	324.799	266.248	170.404	10.417	0.02215	3.11379	12	X
K09T31T	15.8	0.15	K20CH	26.734	312.864	46.495	21.996	0.18705	3.14267	6	X
K09T55D	16.6	0.15	K20CH	32.611	299.040	46.084	23.051	0.24872	3.13084	2	X
K09T55E	16.5	0.15	K20CH	329.494	34.054	49.173	29.495	0.20050	3.12718	4	X
K09T55S	17.3	0.15	K20CH	328.634	275.639	200.116	7.985	0.25222	3.06217	5	X
K09U13Z	16.3	0.15	K20CH	20.082	0.993	26.661	19.823	0.22363	3.06478	7	X
K09U21E	18.3	0.15	K20CH	12.602	323.823	82.123	3.520	0.21531	2.37538	6	X
K09U46C	17.0	0.15	K20CH	32.284	355.161	44.785	20.181	0.23983	3.05532	3	X
K09U52K	16.6	0.15	K20CH	81.165	113.870	221.689	9.907	0.05474	3.07690	8	X
K09U56K	16.1	0.15	K20CH	322.020	248.688	224.243	24.789	0.28281	3.12655	6	X
K09U89L	16.6	0.15	K20CH	16.374	166.574	230.322	16.802	0.19740	3.09308	5	X
K09U91K	17.0	0.15	K20CH	328.822	98.914	45.421	21.878	0.35845	2.34950	5	X
K09UB5O	18.0	0.15	K20CH	331.244	289.995	173.642	2.304	0.14044	2.34625	8	X
K09UC4X	17.1	0.15	K20CH	46.022	170.356	192.517	9.707	0.20029	3.07436	4	X
K09UC7A	15.4	0.15	K20CH	65.428	108.367	227.483	25.366	0.19244	3.08424	7	X
K09UC9T	16.2	0.15	K20CH	19.792	22.990	8.909	16.825	0.20064	3.10223	6	X
K09UD1R	17.8	0.15	K20CH	13.559	309.562	75.829	6.114	0.21356	2.37713	5	X
K09UE1Y	16.9	0.15	K20CH	333.131	24.671	59.413	15.856	0.25127	3.17568	3	X
K09V05Y	16.7	0.15	K20CH	74.849	243.212	42.291	10.897	0.08325	3.23842	6	V
K09V28F	17.8	0.15	K20CH	20.471	180.065	227.913	4.272	0.18217	2.36583	5	X
K09V48O	18.4	0.15	K20CH	11.789	181.671	227.573	6.300	0.17355	2.38303	5	X
K09V55S	18.4	0.15	K20CH	285.511	272.341	246.358	18.841	0.07858	1.95645	6	X
K09V95O	16.3	0.15	K20CH	66.372	106.608	230.665	14.955	0.23014	3.12354	5	X
K09VA5N	16.1	0.15	K20CH	39.898	279.324	77.514	26.224	0.27809	3.09248	5	X
K09VB9H	17.2	0.15	K20CH	336.005	222.764	237.543	15.316	0.23064	3.11139	3	X
K09VC2R	15.9	0.15	K20CH	137.611	203.401	56.589	22.679	0.02190	3.19029	6	X
K09VC8V	14.0	0.15	K20CH	296.977	23.394	77.094	11.185	0.04057	5.27490	7	X
K09VC8X	14.5	0.15	K20CH	347.294	328.417	52.117	5.268	0.06652	5.33427	5	V
K09W09X	15.4	0.15	K20CH	9.434	322.310	89.170	10.396	0.10293	3.12952	11	X
K09W48H	15.9	0.15	K20CH	300.758	259.480	235.991	16.129	0.06769	3.06252	8	X
K09W58J	14.0	0.15	K20CH	294.660	37.524	64.916	15.380	0.03405	5.19266	9	X
K09W97J	15.4	0.15	K20CH	229.481	335.991	228.331	16.595	0.16532	3.14089	11	X
K09WC6P	16.9	0.15	K20CH	272.201	252.343	250.401	13.279	0.11294	3.20789	3	V
K09WC8A	16.3	0.15	K20CH	2.110	321.378	78.878	12.028	0.10849	3.19179	8	X
K09WH5H	18.3	0.15	K20CH	199.330	209.177	49.589	22.280	0.04647	1.93703	4	X
K09WH6L	16.3	0.15	K20CH	35.141	129.174	266.393	9.446	0.11588	3.08385	8	X
K09WJ7J	17.6	0.15	K20CH	331.516	231.798	228.392	21.682	0.16023	3.13464	2	V
K09WJ9K	17.7	0.15	K20CH	348.578	297.120	93.414	10.480	0.25019	3.22590	4	V
K09WK1C	16.5	0.15	K20CH	294.932	66.838	83.109	16.987	0.18663	3.14082	8	X
K09W01W	15.5	0.15	K20CH	72.942	245.781	84.476	17.123	0.12865	3.15394	9	X
K09WP6U	16.5	0.15	K20CH	37.058	121.862	243.226	8.881	0.23280	3.15036	6	X

K09X02N	16.3	0.15	K20CH	20.229	162.281	230.129	15.540	0.22437	3.14038	5 X
K09X04X	17.9	0.15	K20CH	39.175	280.119	88.257	5.646	0.20193	2.39546	5 X
K09X08E	18.8	0.15	K20CH	8.697	113.791	280.829	27.696	0.44076	2.40564	2 X
K09X11X	13.9	0.15	K20CH	301.182	32.974	56.604	6.449	0.03883	5.27950	9 X
K09X24H	15.6	0.15	K20CH	324.517	234.280	260.516	17.856	0.24422	3.15727	7 X
K09X27N	16.4	0.15	K20CH	97.803	232.507	78.285	10.712	0.07473	3.17555	8 X
K09Y28F	17.4	0.15	K20CH	1.459	6.143	81.603	12.841	0.19362	2.37871	8 X
K09Y31U	18.1	0.15	K20CH	320.384	344.712	129.925	3.705	0.09683	2.42050	8 X
K10A21K	18.3	0.15	K20CH	350.059	314.911	130.726	3.292	0.16080	2.40900	6 X
K10A97O	17.5	0.15	K20CH	343.095	246.674	245.753	20.637	0.44345	3.04225	4 X
K10BA2T	16.4	0.15	K20CH	0.297	190.105	203.183	10.351	0.20625	3.15145	6 X
K10BA5M	15.4	0.15	K20CH	312.040	182.087	339.012	25.756	0.30072	3.30554	5 V
K10BC2O	15.8	0.15	K20CH	306.546	57.188	75.510	27.773	0.20162	3.10810	9 X
K10BC4Q	18.0	0.15	K20CH	353.494	44.044	70.593	27.149	0.43384	3.07297	3 X
K10C06M	16.5	0.15	K20CH	310.320	166.799	309.501	30.193	0.13282	2.55025	7 X
K10CC8G	15.6	0.15	K20CH	312.272	164.603	352.615	16.841	0.17418	3.19124	10 X
K10CD6C	16.7	0.15	K20CH	334.725	280.983	166.863	22.121	0.12441	3.14754	6 X
K10CD7D	15.9	0.15	K20CH	37.517	230.216	125.847	18.424	0.11632	3.18242	9 X
K10CG6D	16.7	0.15	K20CH	346.177	237.504	186.044	9.711	0.14806	3.15516	4 X
K10CH5N	16.6	0.15	K20CH	31.674	71.136	316.105	23.991	0.32978	3.20337	6 X
K10CL5C	16.3	0.15	K20CH	312.318	6.338	103.294	9.869	0.03689	3.12183	9 X
K10CP2V	17.7	0.15	K20CH	39.567	204.584	135.362	15.527	0.29808	2.38814	5 X
K10CP3B	17.0	0.15	K20CH	13.793	342.599	57.242	28.971	0.14233	3.11198	2 V
K10D57H	16.5	0.15	K20CH	337.311	4.845	93.515	17.689	0.16146	3.12804	6 X
K10D70C	16.8	0.15	K20CH	334.698	249.134	227.617	23.378	0.37733	3.14074	4 X
K10E01S	16.4	0.15	K20CH	316.182	36.315	75.546	15.419	0.07036	3.16336	8 X
K10E07U	16.5	0.15	K20CH	340.130	214.376	216.355	25.243	0.26301	3.18482	5 X
K10E16Z	17.0	0.15	K20CH	355.500	118.988	321.893	26.205	0.21395	3.12594	6 X
K10EB9E	17.0	0.15	K20CH	7.660	28.321	43.639	22.836	0.28838	3.11673	7 V
K10EG5Z	16.8	0.15	K20CH	326.593	42.128	44.182	27.338	0.19832	3.20914	3 V
K10EG9E	17.0	0.15	K20CH	333.593	261.018	203.427	5.156	0.14052	3.14723	7 X
K10F36Y	16.2	0.15	K20CH	64.234	207.051	102.942	23.470	0.24226	2.79121	5 X
K10F65V	16.4	0.15	K20CH	323.501	30.572	84.645	14.914	0.13986	3.19220	6 X
K10F67D	16.2	0.15	K20CH	25.560	318.513	76.503	15.963	0.22442	3.16695	7 X
K10FB3Z	16.3	0.15	K20CH	23.676	62.230	323.382	26.161	0.21100	3.19360	6 X
K10G40K	17.3	0.15	K20CH	355.886	230.177	192.064	26.641	0.35481	3.17133	3 X
K10G60S	17.2	0.15	K20CH	345.853	66.522	55.180	26.015	0.28702	3.13363	5 X
K10G66Y	16.4	0.15	K20CH	167.705	22.905	210.002	14.089	0.02107	2.57497	12 X
K10G88Q	16.9	0.15	K20CH	4.193	186.096	233.042	9.916	0.20574	3.20659	5 X
K10J51O	15.6	0.15	K20CH	35.008	65.633	335.861	25.051	0.20684	3.22239	8 X
K10J70Y	15.8	0.15	K20CH	13.954	62.581	11.160	23.151	0.10785	3.22745	7 X
K10JF6P	17.3	0.15	K20CH	215.781	348.103	223.524	13.569	0.00354	2.59670	8 X
K10JG6D	16.4	0.15	K20CH	311.435	3.478	88.330	22.762	0.02633	2.63880	6 X
K10K00D	21.9	0.15	K20CH	302.772	91.372	79.661	17.241	0.21761	1.35390	3 X
K10KC1T	16.2	0.15	K20CH	34.319	228.582	134.236	18.780	0.19935	2.55507	9 X
K10KF8Y	16.6	0.15	K20CH	353.117	190.652	231.617	32.262	0.15655	2.60527	5 X
K10L62H	16.6	0.15	K20CH	277.763	81.020	83.833	16.110	0.07140	2.56290	10 X
K10LE7U	17.8	0.15	K20CH	348.874	339.315	100.011	9.711	0.18837	2.47460	4 X
K10O77J	17.9	0.15	K20CH	96.731	217.289	95.010	10.132	0.14712	2.21024	8 X
K10OF1U	17.4	0.15	K20CH	8.875	246.041	114.341	14.986	0.08978	3.00840	3 V
K10T54F	19.7	0.15	K20CH	260.233	346.742	358.934	12.099	0.67548	3.27825	2 X
K10T71O	19.1	0.15	K20CH	4.596	216.306	209.840	3.506	0.18113	2.20455	3 X
K10TL1Z	17.3	0.15	K20CH	355.901	209.988	224.165	6.939	0.11547	2.84275	5 X
K10TM0D	18.9	0.15	K20CH	29.002	236.370	145.076	4.412	0.26248	2.22070	6 X
K10U20Y	18.5	0.15	K20CH	15.902	198.379	215.748	4.391	0.10400	2.20801	5 X
K10U92M	17.5	0.15	K20CH	122.782	68.337	224.452	6.163	0.14890	2.21050	7 X
K10U98D	18.5	0.15	K20CH	23.605	249.372	152.395	4.581	0.11261	2.21054	6 X
K10UB0C	18.2	0.15	K20CH	350.516	239.415	198.852	2.981	0.10984	2.21823	9 X
K10UC5W	16.8	0.15	K20CH	307.882	21.500	50.395	11.994	0.05669	3.07094	7 V
K10V18L	16.7	0.15	K20CH	4.014	313.623	86.158	9.145	0.14840	2.94041	8 X
K10V26E	19.0	0.15	K20CH	351.022	171.022	227.673	3.297	0.21574	2.27594	3 V
K10VQ1W	17.4	0.15	K20CH	9.300	105.105	249.888	11.650	0.18723	3.06217	2 V
K10VQ1X	14.6	0.15	K20CH	330.803	172.624	228.517	15.051	0.14290	5.21373	4 V
K10VQ1Y	14.8	0.15	K20CH	311.017	252.070	174.926	6.267	0.12739	5.21647	4 V
K10VQ1Z	16.9	0.15	K20CH	241.896	60.702	47.812	10.880	0.02512	3.11634	5 V
K10W04Y	16.2	0.15	K20CH	214.979	243.803	255.403	15.804	0.07744	3.16515	2 V
K10W14R	14.2	0.15	K20CH	272.719	224.477	236.449	30.860	0.07369	5.20655	5 V
K10X16M	19.2	0.15	K20CH	44.201	267.093	71.471	3.457	0.19142	2.26913	3 V
K10X20X	19.3	0.15	K20CH	268.011	85.106	83.444	28.593	0.08023	1.85177	5 X
K10X34K	16.8	0.15	K20CH	8.804	305.607	82.415	5.507	0.20690	2.98778	6 X
K10X57U	13.2	0.15	K20CH	256.918	46.759	89.351	26.893	0.03296	5.19682	11 X
K10X58X	18.6	0.15	K20CH	334.261	174.593	53.131	22.174	0.86357	2.23853	3 X
K10X88F	16.1	0.15	K20CH	350.579	328.737	104.418	12.000	0.03421	2.97156	10 X
K10X99U	16.6	0.15	K20CH	7.271	309.741	91.191	18.473	0.32023	3.00786	3 X
K10XB2A	17.7	0.15	K20CH	33.814	251.244	107.155	7.499	0.13964	2.30833	7 X
K10XB3M	18.8	0.15	K20CH	39.903	154.901	210.204	5.082	0.29465	2.23797	2 X
K10Y01N	17.3	0.15	K20CH	80.218	232.985	98.337	7.849	0.14713	2.25496	12 X
K11A25K	16.3	0.15	K20CH	33.364	151.590	232.867	9.400	0.06344	2.96840	11 X
K11A30D	16.0	0.15	K20CH	18.653	295.903	106.531	9.979	0.12775	3.02852	11 X
K11A50D	16.7	0.15	K20CH	44.640	283.105	94.471	9.436	0.04335	3.04811	6 X
K11A60T	17.6	0.15	K20CH	353.802	346.588	86.535	1.985	0.20790	3.00214	4 X
K11A61X	16.0	0.15	K20CH	126.945	196.167	96.748	13.363	0.08805	3.07445	11 X
K11A71O	16.4	0.15	K20CH	25.896	308.611	84.174	11.319	0.01946	3.06858	10 X
K11B08B	18.4	0.15	K20CH	15.643	283.992	120.784	7.225	0.10323	2.28707	5 X
K11B21E	16.8	0.15	K20CH	250.083	43.114	121.692	18.827	0.06171	3.10531	7 V
K11B26T	16.1	0.15	K20CH	24.694	276.070	120.364	11.190	0.10002	3.04680	11 X
K11B66O	17.5	0.15	K20CH	134.695	127.417	267.682	5.258	0.00265	2.81634	6 V
K11B81G	18.1	0.15	K20CH	351.737	300.832	140.261	5.884	0.11820	2.28434	7 X
K11B93W	17.8	0.15	K20CH	7.503	260.036	158.526	5.044	0.09830	2.30166	10 X
K11B97D	16.8	0.15	K20CH	328.382	296.352	121.603	12.642	0.14617	3.15630	5 V
K11BH2G	16.6	0.15	K20CH	342.987	288.985	145.701	22.377	0.17268	3.06782	8 X
K11BI7W	16.0	0.15	K20CH	92.570	163.839	144.784	24.861	0.05867	3.21526	6 X
K11BI7X	16.4	0.15	K20CH	48.498	194.864	145.529	18.351	0.22072	3.15306	6 X

K11BI8Q	16.9	0.15	K20CH	22.958	246.462	138.247	20.873	0.09039	3.12364	5 X
K11BI8X	17.2	0.15	K20CH	17.255	304.138	104.156	8.852	0.10721	3.03404	6 X
K11BJ6V	18.4	0.15	K20CH	335.661	325.512	134.350	6.693	0.07849	2.28118	6 X
K11BJ9H	16.2	0.15	K20CH	6.937	324.223	91.769	11.060	0.12988	3.05030	8 X
K11C50L	27.3	0.15	K20CH	129.986	296.096	9.126	0.185	0.14597	0.88492	2 X
K11C63L	18.3	0.15	K20CH	333.956	316.875	129.291	22.201	0.18038	2.30164	5 X
K11C98N	16.5	0.15	K20CH	15.768	206.741	192.961	8.767	0.10737	3.13176	10 X
K11CB7W	15.5	0.15	K20CH	343.977	1.550	63.942	28.961	0.11727	3.08346	8 X
K11D11U	17.1	0.15	K20CH	264.183	354.798	167.420	23.170	0.11193	2.35201	5 X
K11D36L	17.2	0.15	K20CH	340.143	280.641	172.554	4.440	0.14615	3.09337	6 X
K11E67M	18.4	0.15	K20CH	6.003	236.164	184.395	5.545	0.16941	2.32459	7 X
K11E86P	17.4	0.15	K20CH	128.136	170.510	109.954	24.164	0.06633	1.94956	8 X
K11F16H	15.6	0.15	K20CH	80.253	334.638	17.665	27.306	0.14151	3.22549	7 X
K11F21C	17.5	0.15	K20CH	337.630	265.235	164.973	6.729	0.12905	2.36614	11 X
K11F65L	15.1	0.15	K20CH	157.328	285.810	1.674	21.411	0.08268	3.22560	12 X
K11F66D	18.0	0.15	K20CH	287.173	308.164	201.001	6.011	0.04354	2.35490	7 X
K11FB9Y	16.8	0.15	K20CH	341.254	239.542	212.456	9.998	0.08069	3.19056	7 X
K11FC3C	18.2	0.15	K20CH	141.110	271.799	354.257	5.786	0.09312	2.42307	6 V
K11FD1K	16.2	0.15	K20CH	358.825	111.685	342.643	19.503	0.09729	3.08047	8 X
K11FF5T	16.2	0.15	K20CH	3.907	207.935	216.000	10.078	0.20328	3.16750	6 X
K11K13E	16.8	0.15	K20CH	74.901	152.245	172.215	4.475	0.26710	2.55693	11 X
K11K43N	17.5	0.15	K20CH	60.566	232.063	103.574	6.849	0.25179	2.53916	8 X
K11L05Z	16.6	0.15	K20CH	21.436	203.507	159.376	4.780	0.28819	2.57265	11 X
K11L07S	18.0	0.15	K20CH	349.912	305.640	138.236	5.164	0.07422	2.41490	10 X
K11L29Y	17.4	0.15	K20CH	29.636	215.140	142.412	4.145	0.23139	2.57245	7 X
K11O27G	17.0	0.15	K20CH	38.945	264.663	106.092	12.280	0.21670	2.60326	9 X
K11O59Y	17.5	0.15	K20CH	71.943	321.645	303.328	2.715	0.06094	2.74770	7 V
K11P16M	17.5	0.15	K20CH	52.180	211.630	125.255	8.600	0.31109	2.65820	6 X
K11Q15H	17.2	0.15	K20CH	107.467	174.324	134.365	4.733	0.12517	2.59073	8 X
K11Q36V	16.9	0.15	K20CH	24.169	222.409	155.310	18.013	0.17725	2.67527	8 X
K11QA8F	17.7	0.15	K20CH	47.537	214.469	145.178	4.886	0.18029	2.62389	5 X
K11QB3K	19.0	0.15	K20CH	15.744	358.841	37.311	5.850	0.15962	2.71299	2 V
K11R15U	17.5	0.15	K20CH	66.850	125.201	213.815	6.592	0.20641	2.62513	6 X
K11S33H	17.5	0.15	K20CH	55.633	160.557	184.923	6.501	0.22393	2.66084	6 X
K11S73N	17.9	0.15	K20CH	6.260	170.013	214.391	5.137	0.02740	2.69899	3 V
K11S84O	17.3	0.15	K20CH	64.782	160.873	170.734	4.102	0.22714	2.69714	6 X
K11S86B	17.1	0.15	K20CH	57.194	181.582	149.942	4.681	0.29529	2.70594	5 X
K11S94J	17.4	0.15	K20CH	31.681	138.646	221.689	15.071	0.23449	2.68616	5 X
K11SA3N	16.4	0.15	K20CH	49.892	335.001	18.557	14.128	0.18977	2.67177	6 X
K11SH9X	17.8	0.15	K20CH	1.811	242.738	202.456	11.591	0.28328	2.66523	4 X
K11SI2R	17.8	0.15	K20CH	6.621	201.081	214.483	9.758	0.21357	2.70007	2 X
K11SM0O	16.9	0.15	K20CH	337.077	254.271	175.765	21.976	0.05736	2.67949	7 X
K11SR6F	17.2	0.15	K20CH	359.992	250.247	152.818	2.973	0.10258	2.68402	9 X
K11SW2S	17.0	0.15	K20CH	304.232	17.408	93.147	9.699	0.14344	2.72874	7 X
K11SW6F	17.8	0.15	K20CH	350.502	206.268	159.111	1.937	0.08678	2.79134	5 V
K11T05U	16.7	0.15	K20CH	12.490	186.640	202.785	7.753	0.13972	2.74952	9 X
K11T09J	16.5	0.15	K20CH	350.434	209.607	213.214	14.267	0.17559	2.71426	9 X
K11T15R	17.0	0.15	K20CH	33.067	23.824	16.000	14.384	0.25892	2.63730	4 X
K11U30C	16.8	0.15	K20CH	40.253	284.775	58.188	8.869	0.21279	2.76723	7 X
K11U32T	16.6	0.15	K20CH	25.541	148.631	238.559	11.909	0.17291	2.69317	6 X
K11U37U	17.4	0.15	K20CH	5.725	37.164	33.206	19.024	0.26227	2.69865	5 X
K11U57G	16.3	0.15	K20CH	24.761	16.680	41.110	22.686	0.10680	2.64769	8 X
K11U78U	17.8	0.15	K20CH	39.987	142.044	225.991	14.004	0.17736	2.71003	2 X
K11U85P	16.8	0.15	K20CH	289.880	280.917	209.013	12.543	0.15261	2.73498	9 X
K11UA1C	17.7	0.15	K20CH	13.853	192.640	173.134	5.666	0.02207	2.77425	3 V
K11UJ0K	16.1	0.15	K20CH	50.520	273.308	84.275	15.259	0.13194	2.69652	10 X
K11UO8L	16.6	0.15	K20CH	318.205	42.098	52.291	14.095	0.17721	2.78289	10 X
K11UP1H	16.8	0.15	K20CH	350.121	190.654	219.155	11.739	0.12051	2.79235	9 X
K11UROA	16.7	0.15	K20CH	61.313	228.639	95.164	5.524	0.14072	2.72849	11 X
K11UT1J	17.2	0.15	K20CH	94.830	216.985	89.594	9.598	0.23053	2.67232	6 X
K11UT7G	17.6	0.15	K20CH	340.639	217.543	216.537	25.108	0.21632	2.74433	2 X
K11UV8P	17.5	0.15	K20CH	137.206	270.635	6.331	3.037	0.04322	2.71119	8 V
K11UY3U	17.4	0.15	K20CH	28.365	285.223	92.103	13.890	0.30499	2.71269	6 X
K11Ub6Y	17.5	0.15	K20CH	75.683	244.514	77.049	6.615	0.12600	2.71855	4 V
K11Ud5O	17.3	0.15	K20CH	41.524	294.718	80.976	9.369	0.24934	2.67653	6 X
K11Uk7H	17.8	0.15	K20CH	317.807	46.249	41.629	4.768	0.02440	2.76067	4 V
K11W00Q	17.9	0.15	K20CH	330.102	249.969	223.283	6.410	0.24770	2.70139	3 X
K11W02L	20.8	0.15	K20CH	122.370	88.837	212.925	14.131	0.28342	1.07769	5 X
K11W14R	16.7	0.15	K20CH	322.134	15.137	98.226	14.167	0.12497	2.68635	11 X
K11W41U	16.5	0.15	K20CH	345.472	234.581	234.790	28.082	0.22710	2.69723	6 X
K11W56K	16.7	0.15	K20CH	267.213	301.838	232.025	12.420	0.13545	2.72749	7 X
K11W71Y	16.9	0.15	K20CH	351.034	347.984	60.729	14.840	0.18871	2.79756	4 X
K11W89B	17.0	0.15	K20CH	340.289	1.883	72.453	10.147	0.13968	2.79246	9 X
K11W97G	17.3	0.15	K20CH	28.491	303.688	66.233	9.893	0.15352	2.76636	5 X
K11WC4W	17.1	0.15	K20CH	15.520	281.483	122.056	3.542	0.07537	2.72190	11 X
K11WD0T	17.5	0.15	K20CH	356.551	234.354	197.865	4.444	0.09704	2.71540	8 X
K11WF0N	17.5	0.15	K20CH	30.524	252.963	122.859	8.458	0.23660	2.73871	5 X
K11WH7O	17.1	0.15	K20CH	293.481	62.531	69.785	12.514	0.04498	2.72007	6 X
K11WH8Y	18.1	0.15	K20CH	339.340	208.926	240.508	11.090	0.12047	2.73589	3 V
K11Y13D	17.3	0.15	K20CH	26.001	135.821	250.585	8.763	0.29812	2.73693	5 X
K11Y28F	19.4	0.15	K20CH	10.700	132.766	293.410	23.152	0.22719	1.72969	4 X
K11Y32O	17.7	0.15	K20CH	343.022	332.777	116.898	10.229	0.16873	2.78601	4 X
K11Y62E	16.1	0.15	K20CH	90.552	224.910	65.362	20.702	0.15889	2.91480	6 X
K11Y71Y	15.9	0.15	K20CH	302.188	34.234	66.820	12.534	0.07992	2.87490	13 X
K11Y91G	17.2	0.15	K20CH	350.102	350.137	87.500	10.157	0.11299	2.75422	6 X
K12B24C	16.9	0.15	K20CH	268.392	72.606	100.578	12.726	0.11586	2.88438	4 X
K12B37P	17.0	0.15	K20CH	352.939	85.053	19.900	14.527	0.23555	2.76060	6 X
K12B57M	17.5	0.15	K20CH	4.716	298.163	121.790	4.756	0.22443	2.78896	4 X
K12BH9T	17.4	0.15	K20CH	358.646	133.859	313.598	24.732	0.20291	2.78693	3 X
K12BI0D	14.1	0.15	K20CH	315.781	343.964	98.911	16.897	0.07470	5.25043	8 V
K12D20E	15.7	0.15	K20CH	215.513	120.561	87.887	10.841	0.04387	2.98066	11 X
K12D38M	15.6	0.15	K20CH	190.401	99.297	117.343	26.070	0.32411	3.16797	8 X
K12E24Q	18.4	0.15	K20CH	248.075	341.713	204.096	4.470	0.06574	2.20835	5 X



K12F67R	15.3	0.15	K20CH	170.601	167.513	59.741	20.801	0.10599	3.14359	9 X
K12F81T	16.2	0.15	K20CH	312.198	40.478	73.536	11.941	0.07160	2.97377	10 X
K12G15D	18.5	0.15	K20CH	112.698	218.476	19.676	4.991	0.14516	2.36232	4 V
K12H16W	16.1	0.15	K20CH	189.374	131.004	106.104	12.336	0.13570	3.14261	6 X
K12H82V	14.6	0.15	K20CH	11.008	272.490	117.408	19.666	0.07387	3.22889	15 X
K12HA3X	16.7	0.15	K20CH	126.094	233.658	54.612	16.673	0.02930	3.16067	3 V
K12HA3Y	17.1	0.15	K20CH	136.707	222.767	59.814	13.050	0.01366	3.13891	5 V
K12J02T	16.4	0.15	K20CH	1.829	285.048	138.357	3.875	0.03052	3.14478	11 X
K12J35L	16.5	0.15	K20CH	284.475	313.235	197.226	9.775	0.05788	3.10461	8 X
K12J57T	15.9	0.15	K20CH	194.622	137.862	93.581	13.715	0.02684	3.17395	7 X
K12K13L	17.8	0.15	K20CH	77.821	206.956	120.743	4.674	0.21951	2.33971	9 X
K12K15H	16.4	0.15	K20CH	339.547	232.074	218.781	10.892	0.05680	3.14993	8 X
K12K61Y	16.5	0.15	K20CH	178.453	337.780	216.335	6.393	0.03871	3.39588	6 V
K12M00Z	15.9	0.15	K20CH	252.314	94.939	85.375	16.942	0.06232	3.13119	8 X
K12M10K	15.5	0.15	K20CH	313.257	233.566	294.866	25.687	0.16549	3.08905	8 X
K12P03O	16.2	0.15	K20CH	59.873	123.394	167.664	12.513	0.17691	3.95667	5 V
K12P06C	17.8	0.15	K20CH	99.332	114.363	231.342	20.437	0.05588	1.84949	9 X
K12Q13G	18.1	0.15	K20CH	15.900	283.001	119.071	3.754	0.13132	2.41714	5 X
K12Q29A	18.9	0.15	K20CH	24.702	79.790	334.818	16.004	0.12377	1.87579	6 X
K12Q36T	15.2	0.15	K20CH	97.097	103.134	216.229	9.176	0.08036	3.55952	9 X
K12Q68A	19.1	0.15	K20CH	9.085	142.954	227.210	5.424	0.22622	2.53400	4 V
K12S10O	18.1	0.15	K20CH	341.256	85.492	6.887	21.145	0.08506	1.87872	8 X
K12T06S	17.5	0.15	K20CH	352.114	260.271	181.912	6.866	0.11860	2.45633	7 X
K12T07H	17.6	0.15	K20CH	332.182	219.437	253.439	6.579	0.13265	2.38379	8 X
K12T34S	18.7	0.15	K20CH	342.139	252.381	190.715	21.742	0.11825	1.91592	5 X
K12T51S	18.6	0.15	K20CH	323.302	68.780	43.448	21.872	0.10291	1.89897	6 X
K12TC7Q	18.4	0.15	K20CH	63.072	162.957	178.143	22.418	0.06546	1.91777	5 X
K12TDOU	17.5	0.15	K20CH	37.838	283.899	96.643	7.226	0.21825	2.48208	7 X
K12TE2N	18.6	0.15	K20CH	137.226	100.104	176.499	22.954	0.02123	1.91250	6 X
K12TK3F	17.4	0.15	K20CH	83.743	159.764	164.461	6.339	0.14661	2.45352	9 X
K12TL9R	16.0	0.15	K20CH	328.914	293.965	143.074	1.773	0.22373	3.97898	8 V
K12TN4V	17.3	0.15	K20CH	12.809	290.933	93.825	5.357	0.15247	2.51305	8 X
K12Ta6V	18.0	0.15	K20CH	71.932	7.162	269.302	2.811	0.17433	2.59608	5 V
K12U29A	16.3	0.15	K20CH	146.308	32.558	222.839	34.693	0.03798	2.54453	8 X
K12U81R	17.3	0.15	K20CH	43.600	287.312	74.316	11.047	0.20721	2.51558	8 X
K12UE6P	16.1	0.15	K20CH	357.852	186.383	239.350	8.517	0.33684	3.96929	2 X
K12UF8G	18.5	0.15	K20CH	174.105	288.705	329.877	19.329	0.03122	1.89332	5 X
K12UG1B	16.8	0.15	K20CH	340.128	207.977	246.887	10.832	0.18076	2.50302	9 X
K12UH1K	24.4	0.15	K20CH	206.700	357.816	250.805	1.331	0.22238	0.85897	3 X
K12UJ9L	16.2	0.15	K20CH	6.477	336.501	73.571	6.902	0.20682	3.95877	2 X
K12V04R	16.9	0.15	K20CH	335.888	129.921	325.458	32.130	0.23902	2.60163	5 X
K12V38G	15.9	0.15	K20CH	358.094	327.460	102.692	8.451	0.27221	3.95643	5 X
K12V52J	16.4	0.15	K20CH	58.794	237.016	86.910	10.534	0.21596	2.58950	12 X
K12V96F	17.2	0.15	K20CH	0.850	196.100	206.392	3.431	0.22550	2.56405	13 X
K12VB4K	17.9	0.15	K20CH	332.879	309.115	152.616	3.320	0.17302	2.53775	5 X
K12VB8X	18.2	0.15	K20CH	15.558	277.580	122.965	3.091	0.18167	2.54341	5 X
K12W10E	16.0	0.15	K20CH	5.043	160.700	267.776	9.383	0.29885	3.96163	5 X
K12W34R	16.5	0.15	K20CH	115.631	227.906	88.089	10.092	0.07303	2.52205	12 X
K12X64C	17.6	0.15	K20CH	141.505	67.197	199.995	9.107	0.05298	2.57076	5 V
K12XB6C	18.2	0.15	K20CH	356.230	315.426	96.723	24.674	0.08977	1.96055	3 X
K12XC5Y	16.5	0.15	K20CH	11.376	188.187	226.435	12.835	0.19073	2.55385	10 X
K12XD2M	18.2	0.15	K20CH	336.095	272.359	195.634	5.277	0.23726	2.53296	4 X
K12XD3E	23.3	0.15	K20CH	200.118	337.125	281.056	6.713	0.43314	0.72283	2 X
K12XD6S	17.8	0.15	K20CH	332.639	155.714	254.543	18.047	0.20085	2.62220	2 V
K12XD7N	16.6	0.15	K20CH	56.188	130.695	224.891	16.026	0.18215	2.55187	6 X
K12XD7R	15.9	0.15	K20CH	341.211	169.125	256.950	13.953	0.03553	2.59398	12 X
K12XE2R	17.1	0.15	K20CH	44.317	218.505	124.584	16.797	0.20342	2.58890	7 X
K12XE7Y	17.1	0.15	K20CH	42.325	228.292	137.336	5.016	0.21393	2.53244	9 X
K12XE8B	17.9	0.15	K20CH	25.438	180.166	179.310	5.431	0.28113	2.56953	3 X
K12XF0N	17.6	0.15	K20CH	3.631	262.661	137.752	7.636	0.21736	2.57190	4 X
K12XF1Z	17.6	0.15	K20CH	359.471	267.938	141.064	3.733	0.21298	2.60677	7 X
K12XF7F	17.3	0.15	K20CH	341.288	13.712	91.810	15.977	0.25008	2.55445	7 X
K12Y01D	16.5	0.15	K20CH	236.645	27.966	141.451	11.759	0.21557	2.72847	11 X
K13A20E	16.9	0.15	K20CH	287.992	67.988	85.750	29.926	0.36196	2.60923	5 X
K13A57J	17.1	0.15	K20CH	357.266	331.989	100.281	7.660	0.13268	2.60396	11 X
K13A62W	17.0	0.15	K20CH	29.596	308.966	83.463	14.552	0.18274	2.56884	7 X
K13A72L	17.6	0.15	K20CH	332.263	346.971	99.045	24.541	0.08195	1.97827	7 X
K13A74Z	17.2	0.15	K20CH	270.699	82.768	84.615	22.715	0.09914	2.60727	5 X
K13A94T	16.4	0.15	K20CH	18.716	181.412	203.177	11.651	0.14863	2.58003	15 X
K13AF0D	18.4	0.15	K20CH	6.648	170.328	217.254	7.393	0.37939	2.60159	4 X
K13AJ1N	18.2	0.15	K20CH	26.737	83.619	301.609	27.140	0.38916	2.57120	3 X
K13AJ2H	17.7	0.15	K20CH	20.290	88.536	310.126	28.555	0.27791	2.57128	4 X
K13AJ2S	17.7	0.15	K20CH	18.681	282.210	119.731	5.024	0.23448	2.58828	2 X
K13AJ3E	16.9	0.15	K20CH	341.521	310.367	123.510	22.636	0.03225	2.67257	7 X
K13AJ5G	18.5	0.15	K20CH	8.500	332.325	79.247	12.707	0.25037	2.54487	3 X
K13AK0A	18.6	0.15	K20CH	15.068	291.527	104.794	7.163	0.30800	2.59066	3 X
K13B07N	17.3	0.15	K20CH	25.789	208.567	181.398	6.316	0.22902	2.59711	7 X
K13B22F	17.1	0.15	K20CH	22.756	272.255	103.681	9.592	0.27119	2.63240	8 X
K13B35P	17.4	0.15	K20CH	9.032	288.935	125.992	6.040	0.19860	2.58626	6 X
K13B79E	17.3	0.15	K20CH	259.272	56.626	126.177	6.758	0.09412	2.65592	8 X
K13B87R	17.7	0.15	K20CH	24.342	308.411	91.215	5.333	0.25193	2.58462	3 X
K13B95V	18.1	0.15	K20CH	2.463	250.077	155.421	7.560	0.28876	2.63106	2 X
K13C00A	17.6	0.15	K20CH	118.552	347.918	332.910	17.569	0.08482	1.95716	9 X
K13C01P	17.3	0.15	K20CH	46.070	235.586	135.483	6.653	0.15329	2.63841	8 X
K13C18S	17.5	0.15	K20CH	317.757	20.772	101.927	4.579	0.17020	2.65584	5 X
K13C57E	17.6	0.15	K20CH	318.539	273.092	217.782	7.882	0.20694	2.60723	6 X
K13CB4C	18.1	0.15	K20CH	343.143	316.178	158.126	17.900	0.22954	2.58015	5 X
K13CC5B	16.1	0.15	K20CH	9.928	285.667	141.373	22.266	0.06307	2.66623	12 X
K13CD0S	16.6	0.15	K20CH	13.790	92.278	341.172	21.601	0.05074	2.65474	5 X
K13CD5Q	17.0	0.15	K20CH	342.874	326.115	113.234	6.918	0.04001	2.71786	10 X
K13CJ6T	13.9	0.15	K20CH	57.622	259.682	62.453	6.851	0.04200	5.25337	12 X
K13E03C	18.3	0.15	K20CH	332.466	317.661	159.639	6.205	0.25913	2.58603	3 X
K13E05S	17.5	0.15	K20CH	321.074	301.088	172.376	3.937	0.04329	2.69706	6 X

K13E19V	14.4	0.15	K20CH	5.105	228.200	163.188	21.925	0.06840	5.16488	8	X
K13E30X	16.7	0.15	K20CH	358.168	82.405	13.168	21.969	0.05750	2.67493	6	X
K13E33K	16.4	0.15	K20CH	288.758	34.306	133.609	15.194	0.10118	2.63845	8	X
K13E57G	17.2	0.15	K20CH	124.656	128.086	156.489	4.708	0.03516	2.81035	9	V
K13E78Y	16.8	0.15	K20CH	20.296	248.819	131.129	4.648	0.11469	2.80196	10	X
K13EA0Z	17.2	0.15	K20CH	15.801	78.070	359.184	21.897	0.05787	2.66558	6	X
K13EA8T	18.3	0.15	K20CH	333.153	149.401	335.060	17.862	0.07773	1.97966	6	X
K13EA9R	17.0	0.15	K20CH	313.352	64.004	41.469	13.317	0.20924	2.69776	6	X
K13EB2C	17.6	0.15	K20CH	308.590	302.702	186.848	3.203	0.11854	2.68133	9	X
K13G89T	17.6	0.15	K20CH	3.916	83.107	16.780	27.818	0.38929	2.57001	3	X
K13GA8A	16.0	0.15	K20CH	32.952	304.239	54.882	11.119	0.03571	2.91109	10	X
K13GB9V	16.9	0.15	K20CH	83.374	262.013	27.151	11.329	0.19110	3.07908	5	V
K13GD3J	18.0	0.15	K20CH	353.828	93.289	8.319	20.475	0.10598	1.98328	6	X
K13GF6V	17.1	0.15	K20CH	29.035	286.959	52.044	10.235	0.08812	3.07669	4	V
K13H92A	17.5	0.15	K20CH	42.880	277.792	20.929	8.690	0.10306	3.17633	4	V
K13HE4E	17.4	0.15	K20CH	39.404	39.068	17.620	35.192	0.24504	2.68717	5	X
K13J45S	16.9	0.15	K20CH	75.579	230.534	58.283	9.954	0.06168	3.17111	2	V
K13K09O	15.5	0.15	K20CH	103.341	125.304	170.702	24.074	0.14778	3.11760	11	X
K13K19C	16.2	0.15	K20CH	73.151	111.464	206.389	10.114	0.08591	3.12664	11	X
K13L21O	16.8	0.15	K20CH	71.053	241.429	82.018	17.172	0.22885	3.17393	4	X
K13L25H	17.3	0.15	K20CH	293.605	356.836	129.843	29.468	0.83198	4.46983	2	X
K13L34K	15.9	0.15	K20CH	353.487	63.855	142.089	12.778	0.17690	2.52494	8	X
K13L35D	16.2	0.15	K20CH	110.354	215.627	74.761	12.891	0.19558	3.11343	8	X
K13M08R	15.2	0.15	K20CH	306.652	190.950	303.463	26.780	0.13307	3.17728	11	X
K13M20A	16.5	0.15	K20CH	63.254	199.074	134.017	16.383	0.24412	3.17661	10	V
K13N33T	9.0	0.15	K20CH	345.760	10.419	57.322	20.429	0.44781	29.72014	10	X
K13N45C	16.2	0.15	K20CH	70.466	188.892	132.407	24.802	0.16231	3.15552	7	X
K13P06Y	19.3	0.15	K20CH	15.147	194.088	196.895	3.421	0.46388	2.28307	4	X
K13P14F	17.5	0.15	K20CH	31.967	239.234	128.455	5.635	0.19728	2.26511	11	X
K13P90F	19.0	0.15	K20CH	36.296	161.778	187.874	2.373	0.18673	2.27884	2	V
K13Q64O	18.0	0.15	K20CH	69.989	182.181	156.781	5.211	0.18741	2.21916	9	X
K13Q96Z	18.1	0.15	K20CH	13.699	96.283	316.360	25.350	0.25747	2.25292	3	X
K13R08Q	19.3	0.15	K20CH	10.397	169.931	214.360	2.028	0.22143	2.29554	3	V
K13R35G	17.6	0.15	K20CH	64.273	196.582	144.995	6.713	0.15032	2.26058	9	X
K13R36M	18.8	0.15	K20CH	7.392	221.817	176.980	5.943	0.21961	2.29347	3	X
K13R40C	18.4	0.15	K20CH	351.104	87.601	354.520	22.571	0.24647	2.25857	3	X
K13RE5E	18.6	0.15	K20CH	63.308	143.493	197.877	4.715	0.20199	2.25550	2	V
K13S57Q	18.8	0.15	K20CH	94.384	276.702	14.681	4.041	0.13395	2.28097	4	V
K13T09W	17.3	0.15	K20CH	92.077	191.838	119.996	6.519	0.18959	2.23678	10	X
K13T27A	19.4	0.15	K20CH	19.902	191.588	200.064	3.535	0.12682	2.27760	2	V
K13T68B	16.0	0.15	K20CH	22.307	172.218	225.844	9.025	0.10365	3.32682	8	X
K13TA3L	17.7	0.15	K20CH	65.510	171.536	145.217	5.445	0.22867	2.28257	8	X
K13TC1M	18.2	0.15	K20CH	79.692	116.000	211.932	4.784	0.19290	2.25254	6	X
K13U14X	18.2	0.15	K20CH	21.881	331.633	40.183	7.198	0.53296	2.32992	4	X
K13U25K	18.6	0.15	K20CH	309.828	315.866	175.255	6.807	0.10217	2.24812	4	X
K13W69L	17.6	0.15	K20CH	97.336	65.855	243.954	6.310	0.14765	2.29260	9	X
K13W84Z	18.1	0.15	K20CH	0.731	210.888	215.247	4.973	0.14037	2.32461	5	X
K13X07V	17.8	0.15	K20CH	21.459	335.694	70.110	3.336	0.20290	2.32715	9	X
K13X32C	19.2	0.15	K20CH	329.472	156.583	289.413	2.374	0.29326	2.39616	4	V
K13Y02S	23.7	0.15	K20CH	342.142	216.243	261.832	2.934	0.29654	1.45137	2	X
K13Y09R	17.7	0.15	K20CH	327.320	329.737	122.453	3.797	0.16955	2.39590	10	X
K13Y11X	17.3	0.15	K20CH	22.110	319.278	86.809	7.932	0.12720	2.34359	10	X
K13Y36M	18.1	0.15	K20CH	299.739	35.238	102.790	24.749	0.24864	2.35486	3	X
K13Y49W	17.3	0.15	K20CH	218.437	91.268	123.972	8.655	0.14516	2.42873	9	X
K13Y65Q	17.9	0.15	K20CH	15.628	274.957	130.558	5.914	0.21947	2.34004	8	X
K13Y68G	17.1	0.15	K20CH	319.582	7.535	119.914	6.804	0.07499	2.38407	9	X
K13Y68R	18.2	0.15	K20CH	309.406	20.178	122.511	6.034	0.20250	2.38171	5	X
K13Y82X	17.4	0.15	K20CH	49.496	234.270	134.220	7.070	0.12795	2.38650	9	X
K13Y97B	18.4	0.15	K20CH	344.453	156.230	317.802	25.443	0.18291	2.32079	5	X
K13YB3G	17.6	0.15	K20CH	52.783	268.208	93.614	4.908	0.10300	2.40282	6	X
K13YC8D	18.6	0.15	K20CH	10.530	303.698	107.659	9.953	0.19790	2.36512	3	X
K13YG6G	19.1	0.15	K20CH	9.751	229.043	188.018	4.230	0.26760	2.34235	4	X
K14A15M	19.4	0.15	K20CH	351.216	62.255	65.138	23.497	0.41528	2.30272	2	V
K14A60P	17.2	0.15	K20CH	51.923	282.868	87.956	8.202	0.13082	2.35273	9	X
K14B81U	18.2	0.15	K20CH	335.799	335.395	120.602	6.192	0.12503	2.39351	4	X
K14C09Z	18.2	0.15	K20CH	353.874	342.078	97.804	11.220	0.16724	2.38332	5	X
K14C11F	17.9	0.15	K20CH	18.393	79.526	331.486	21.650	0.23635	2.36252	4	X
K14D84W	17.0	0.15	K20CH	51.566	280.062	76.554	2.785	0.14477	2.54683	12	X
K14DA0X	16.4	0.15	K20CH	357.793	284.543	146.874	3.756	0.25247	3.98038	4	X
K14DA1Q	17.2	0.15	K20CH	100.125	310.236	328.080	14.322	0.14868	2.61764	5	V
K14DF8U	16.9	0.15	K20CH	95.936	163.381	140.434	22.502	0.03775	2.58000	4	X
K14DG7O	17.4	0.15	K20CH	319.219	346.816	134.189	8.213	0.11964	2.54855	7	X
K14DI0C	18.3	0.15	K20CH	356.847	337.551	106.287	6.020	0.27041	2.36613	5	X
K14E00A	16.7	0.15	K20CH	5.860	308.385	124.232	22.815	0.22827	2.29176	9	X
K14E48P	18.4	0.15	K20CH	58.651	352.799	11.034	20.445	0.09277	1.84707	5	X
K14E48Z	18.9	0.15	K20CH	332.560	82.104	178.773	25.510	0.56418	2.25487	2	X
K14E51H	15.9	0.15	K20CH	176.539	237.081	6.890	13.110	0.14540	2.61514	13	X
K14E51K	13.2	0.15	K20CH	168.329	152.044	70.348	11.901	0.09490	5.17460	15	X
K14E52C	18.1	0.15	K20CH	292.578	131.340	12.872	20.697	0.03083	1.85257	7	X
K14E59N	17.4	0.15	K20CH	53.379	325.849	318.380	1.607	0.03536	2.78260	9	V
K14E63R	17.9	0.15	K20CH	63.973	69.122	270.767	6.820	0.12389	2.54590	4	V
K14EG8G	18.1	0.15	K20CH	300.798	313.684	181.981	5.764	0.06037	2.46018	7	X
K14EO3U	14.3	0.15	K20CH	323.160	225.836	176.416	32.176	0.08077	5.19028	6	V
K14EP4B	17.0	0.15	K20CH	76.150	265.260	68.558	14.768	0.10864	2.58264	5	X
K14F06W	18.3	0.15	K20CH	305.054	134.525	354.001	19.780	0.03857	1.84223	4	X
K14F39Q	16.9	0.15	K20CH	166.800	108.070	150.009	7.129	0.09650	2.57117	13	X
K14F42A	17.2	0.15	K20CH	40.396	230.222	134.272	22.221	0.00911	2.61200	6	X
K14F85M	17.8	0.15	K20CH	289.637	100.037	348.691	5.776	0.04438	2.65058	5	V
K14G32Q	18.8	0.15	K20CH	304.844	288.100	196.471	20.526	0.09109	1.86122	5	X
K14G36U	16.3	0.15	K20CH	114.076	200.674	100.193	16.631	0.12892	2.66990	9	X
K14G41Y	16.4	0.15	K20CH	302.398	97.317	29.612	15.616	0.06374	2.57265	9	X
K14G81K	17.4	0.15	K20CH	112.162	241.970	44.025	14.711	0.19526	2.73669	5	V
K14H03A	18.0	0.15	K20CH	65.403	311.774	66.135	23.385	0.11186	1.86154	7	X

K14HE6G	16.8	0.15	K20CH	169.065	129.874	124.853	7.349	0.01907	2.56928	10 X
K14HM5O	17.1	0.15	K20CH	355.126	219.632	207.097	31.622	0.19675	2.60059	4 V
K14HM6Y	17.7	0.15	K20CH	196.256	154.600	27.805	5.105	0.08041	2.71083	6 V
K14J05S	16.5	0.15	K20CH	71.138	252.318	91.601	14.719	0.12712	2.73764	8 X
K14J23F	16.6	0.15	K20CH	96.375	225.586	86.755	12.054	0.14502	2.79382	8 X
K14J76X	18.1	0.15	K20CH	39.207	259.436	110.566	24.383	0.10122	1.94619	6 X
K14JA6H	17.4	0.15	K20CH	350.054	77.150	25.476	14.542	0.10280	2.53645	6 X
K14JB5G	17.6	0.15	K20CH	294.256	28.310	60.316	1.237	0.03595	2.79396	6 V
K14K38W	18.7	0.15	K20CH	305.652	41.096	85.625	21.927	0.07763	1.88456	3 X
K14K39U	18.3	0.15	K20CH	168.951	127.696	105.649	23.437	0.06182	1.92557	6 X
K14K45Q	18.8	0.15	K20CH	4.119	339.139	85.633	24.740	0.07652	1.88654	4 X
K14K58M	17.0	0.15	K20CH	200.425	108.993	121.020	10.262	0.05586	2.66009	5 X
K14K73Y	17.0	0.15	K20CH	338.904	231.321	201.564	12.136	0.14789	2.69902	6 X
K14L20C	16.3	0.15	K20CH	113.197	201.677	101.517	12.259	0.04276	2.73733	9 X
K14L21R	19.0	0.15	K20CH	281.286	282.741	237.058	15.608	0.10063	1.87621	4 X
K14L34X	18.8	0.15	K20CH	328.759	60.832	69.782	23.380	0.06305	1.85287	4 X
K14M20R	16.6	0.15	K20CH	32.505	208.707	148.116	6.159	0.16403	3.04950	6 X
K14M57O	16.7	0.15	K20CH	21.017	299.499	88.134	7.717	0.28743	3.08071	6 X
K14N09M	17.3	0.15	K20CH	43.518	192.987	113.065	12.006	0.12275	3.15374	5 V
K14N28X	16.9	0.15	K20CH	54.792	182.182	123.329	17.822	0.08994	3.12546	3 V
K14N34O	16.2	0.15	K20CH	29.387	305.534	54.380	10.270	0.11260	3.07743	8 X
K14N51O	16.4	0.15	K20CH	71.558	182.724	123.829	18.488	0.19383	3.08709	8 X
K14N86O	17.0	0.15	K20CH	105.472	254.461	45.687	9.285	0.09155	2.94927	7 V
K14O62F	17.0	0.15	K20CH	24.437	285.540	106.542	5.479	0.09170	2.96460	8 X
K14O63V	16.3	0.15	K20CH	337.382	316.624	122.006	22.048	0.13775	2.99337	8 X
K14O72O	17.4	0.15	K20CH	43.702	210.063	122.091	12.303	0.21846	3.17238	4 V
K14O99W	16.3	0.15	K20CH	343.514	287.783	156.176	22.451	0.27553	3.09370	6 X
K14OA2R	16.0	0.15	K20CH	59.456	175.437	149.233	18.545	0.21038	3.14225	8 X
K14OC1W	17.8	0.15	K20CH	48.488	214.967	93.680	2.549	0.19850	3.16377	3 V
K14OH4G	17.1	0.15	K20CH	342.058	48.935	332.638	7.939	0.08212	3.16934	4 V
K14OK6M	16.5	0.15	K20CH	85.722	235.377	98.328	11.762	0.00421	2.91496	10 X
K14OK7L	19.5	0.15	K20CH	27.136	73.148	325.167	14.208	0.25728	2.00516	4 X
K14OK7P	18.0	0.15	K20CH	348.198	111.168	337.833	17.019	0.09086	1.95778	5 X
K14OM7F	17.1	0.15	K20CH	36.888	285.742	93.491	10.152	0.14737	3.02247	5 X
K14OM8R	16.4	0.15	K20CH	81.528	123.948	169.472	26.924	0.24592	3.17028	5 X
K14OV9X	17.9	0.15	K20CH	28.143	251.402	94.313	2.324	0.19021	3.11349	5 V
K14Od2G	10.8	0.15	K20CH	352.043	253.988	145.800	9.033	0.18390	12.21620	10 X
K14Od8O	17.2	0.15	K20CH	2.641	43.363	10.906	9.894	0.21937	3.15916	4 V
K14Oe1J	16.1	0.15	K20CH	186.461	113.018	128.168	9.814	0.04794	2.99946	9 X
K14Oi0T	17.3	0.15	K20CH	358.585	270.048	136.401	16.780	0.22211	3.12505	3 X
K14Oi2Z	17.1	0.15	K20CH	352.191	246.482	143.379	9.815	0.07612	3.17525	4 V
K14Oi3A	17.5	0.15	K20CH	13.532	8.347	0.018	17.563	0.16002	3.17118	3 V
K14P19Y	16.9	0.15	K20CH	12.273	238.984	136.814	10.185	0.07335	3.11565	5 V
K14P43G	16.1	0.15	K20CH	57.565	252.054	88.352	16.451	0.19279	3.10430	9 X
K14P93D	17.0	0.15	K20CH	0.298	243.210	128.325	10.928	0.07223	3.17736	4 V
K14Q08E	16.3	0.15	K20CH	343.186	258.992	169.930	24.311	0.11456	2.98156	7 X
K14Q31F	16.1	0.15	K20CH	1.538	271.119	142.996	21.041	0.22744	3.19091	7 X
K14Q90E	17.2	0.15	K20CH	21.617	201.294	167.526	17.956	0.24629	3.15235	2 X
K14QS7J	16.7	0.15	K20CH	14.858	311.154	89.087	17.556	0.22210	3.09140	7 X
K14QU2B	16.9	0.15	K20CH	358.686	264.499	143.301	7.869	0.22369	3.21516	3 X
K14QW9U	16.3	0.15	K20CH	53.550	247.593	112.709	9.088	0.16285	3.14295	11 X
K14QY8P	16.8	0.15	K20CH	20.097	213.679	171.864	23.089	0.15917	3.15088	4 X
K14Qa0G	16.9	0.15	K20CH	351.744	257.344	177.382	7.375	0.16860	3.09890	6 X
K14Qb5G	16.2	0.15	K20CH	348.718	89.074	348.876	15.199	0.23462	3.13492	6 X
K14Qb5P	16.6	0.15	K20CH	73.352	135.007	175.696	27.050	0.22221	3.15522	2 X
K14Qb8W	15.7	0.15	K20CH	235.396	345.051	185.887	10.075	0.06607	3.14214	11 X
K14Qc4S	16.6	0.15	K20CH	27.875	223.744	157.557	6.995	0.22839	3.13452	8 X
K14Qd5M	16.2	0.15	K20CH	287.687	284.220	204.415	10.094	0.12447	3.13832	9 X
K14Qe5E	17.2	0.15	K20CH	28.063	78.178	329.870	18.497	0.23169	3.06221	6 X
K14Qf5W	15.6	0.15	K20CH	93.868	104.136	192.721	12.983	0.04973	3.17407	12 X
K14Qi7S	15.7	0.15	K20CH	333.997	6.016	85.545	12.400	0.05005	3.05331	10 X
K14Qk7E	16.3	0.15	K20CH	292.733	3.894	133.495	9.567	0.04605	3.15322	8 X
K14Qm5D	17.6	0.15	K20CH	50.963	232.603	113.029	2.665	0.14896	3.10430	5 V
K14Qn7S	17.3	0.15	K20CH	5.666	302.200	118.131	10.877	0.20527	3.07338	3 X
K14Qn8L	17.2	0.15	K20CH	357.273	98.075	342.289	15.880	0.43296	3.11250	3 X
K14Qr7J	17.1	0.15	K20CH	24.555	222.987	156.119	18.911	0.13801	3.15437	2 X
K14Qs0B	17.7	0.15	K20CH	25.019	274.594	100.320	11.397	0.31364	3.16260	2 X
K14Qs0J	17.1	0.15	K20CH	55.215	133.855	219.220	9.733	0.12002	2.99987	4 V
K14R00P	15.6	0.15	K20CH	10.253	146.294	256.381	17.041	0.34726	3.19005	5 X
K14R62Z	16.3	0.15	K20CH	27.977	11.431	30.655	15.905	0.27192	3.09749	5 X
K14R66R	16.6	0.15	K20CH	60.488	109.517	227.157	15.169	0.23680	3.14018	6 X
K14R69T	16.0	0.15	K20CH	16.707	319.513	84.184	26.980	0.24246	3.13670	6 X
K14R81M	17.0	0.15	K20CH	6.953	172.213	231.359	9.041	0.05984	3.15451	4 V
K14S04G	16.3	0.15	K20CH	6.720	331.716	85.585	13.190	0.07571	2.98636	8 X
K14S79F	16.2	0.15	K20CH	31.835	274.086	117.559	11.600	0.05700	2.97767	10 X
K14SE9L	16.5	0.15	K20CH	41.529	220.374	141.025	4.293	0.19529	3.11432	9 X
K14SM3G	16.8	0.15	K20CH	53.131	232.477	115.673	6.905	0.19629	3.12184	6 X
K14SM9L	16.3	0.15	K20CH	351.121	237.483	194.728	8.978	0.08999	3.15168	10 X
K14S07C	16.0	0.15	K20CH	167.806	158.854	91.776	11.750	0.09392	3.04298	7 X
K14S08E	16.3	0.15	K20CH	32.230	262.778	109.917	10.861	0.22815	3.16151	7 X
K14SP5D	16.7	0.15	K20CH	32.022	171.870	210.714	10.129	0.10184	3.12988	8 X
K14SP5Y	16.6	0.15	K20CH	79.460	121.115	204.896	9.215	0.14206	3.13487	8 X
K14SS9H	16.0	0.15	K20CH	55.420	157.463	196.057	8.174	0.13115	3.15059	11 X
K14ST8H	16.0	0.15	K20CH	85.150	98.921	230.377	11.180	0.04834	3.19762	9 X
K14ST9W	16.5	0.15	K20CH	42.456	14.943	14.937	17.523	0.18006	3.11993	4 X
K14SV7X	17.0	0.15	K20CH	6.243	59.085	20.821	15.327	0.29306	3.13832	3 X
K14SZ6W	16.2	0.15	K20CH	4.543	324.928	99.025	10.808	0.07889	3.14182	8 X
K14Sa2R	16.5	0.15	K20CH	4.455	72.479	3.489	15.673	0.22602	3.15334	5 X
K14Sb9E	17.6	0.15	K20CH	341.725	263.850	187.086	5.775	0.20581	3.10443	4 X
K14Sd1A	17.2	0.15	K20CH	64.538	295.122	40.884	10.580	0.11673	3.16421	3 V
K14T32S	15.9	0.15	K20CH	82.517	96.155	239.696	20.931	0.10250	3.13670	8 X
K14T36M	16.2	0.15	K20CH	296.864	289.842	201.941	8.808	0.06191	3.16491	9 X
K14T92F	17.3	0.15	K20CH	9.359	263.799	144.829	7.213	0.26438	3.21091	4 X

K14U12G	16.3	0.15	K20CH	297.349	266.211	227.836	18.176	0.10663	3.21036	6 X
K14U31Y	15.9	0.15	K20CH	321.125	94.567	23.933	25.807	0.22341	3.20665	7 X
K14U33K	18.0	0.15	K20CH	151.484	328.387	329.371	17.392	0.05790	1.98968	7 X
K14U62H	15.8	0.15	K20CH	25.206	294.759	65.916	9.253	0.15574	3.44472	10 X
K14U89O	16.4	0.15	K20CH	320.199	251.833	222.479	8.534	0.06674	3.14102	11 X
K14UC8G	15.8	0.15	K20CH	158.395	40.738	222.408	9.790	0.18205	3.12740	11 X
K14UD0H	16.4	0.15	K20CH	359.098	200.355	224.213	18.975	0.12253	3.21721	8 X
K14UF1V	16.1	0.15	K20CH	237.507	9.960	180.595	9.350	0.04574	3.17335	12 X
K14UL1S	16.0	0.15	K20CH	21.487	292.003	76.590	16.349	0.22528	3.22789	6 X
K14UL3K	16.3	0.15	K20CH	28.602	277.279	102.457	10.306	0.15151	3.21427	9 X
K14UL7R	15.8	0.15	K20CH	43.557	46.226	326.349	26.243	0.17259	3.07980	10 X
K14UL9W	16.3	0.15	K20CH	82.576	83.260	238.944	25.181	0.15009	3.17640	5 X
K14UM2P	16.7	0.15	K20CH	24.070	151.744	239.952	16.546	0.20998	3.19498	4 X
K14UQ6V	17.0	0.15	K20CH	12.973	325.721	75.066	15.378	0.20000	3.20062	3 X
K14V15V	16.7	0.15	K20CH	359.918	36.732	55.866	28.073	0.22719	3.20212	5 X
K14V41H	16.5	0.15	K20CH	22.807	306.181	83.981	21.009	0.15679	3.24674	5 X
K14W05N	17.8	0.15	K20CH	327.938	121.355	37.832	28.223	0.19263	1.98332	6 X
K14WH2O	15.8	0.15	K20CH	344.251	348.428	78.027	12.337	0.18623	3.12536	9 X
K14WL4E	16.6	0.15	K20CH	42.752	253.624	111.856	7.377	0.13886	3.24181	9 X
K14WV6W	16.0	0.15	K20CH	356.577	7.809	72.854	18.522	0.18416	3.15862	9 X
K14WV7V	16.4	0.15	K20CH	15.961	241.079	182.339	16.366	0.23266	3.14283	7 X
K14Wa5G	20.1	0.15	K20CH	299.679	111.076	71.349	25.122	0.33337	1.29592	3 X
K14Wc2L	15.5	0.15	K20CH	336.267	252.170	241.533	24.725	0.28560	3.18883	7 X
K14Wd4C	16.3	0.15	K20CH	17.577	54.635	19.808	18.359	0.08939	3.09510	8 X
K14Wo0C	15.9	0.15	K20CH	16.470	326.996	71.381	23.518	0.16169	3.21761	6 X
K14Wr9L	17.2	0.15	K20CH	336.814	70.363	62.935	26.490	0.25440	3.20214	5 X
K15AP9L	17.7	0.15	K20CH	303.374	26.144	80.231	8.166	0.04097	2.19786	8 X
K15BF6M	17.6	0.15	K20CH	341.743	338.525	85.763	6.187	0.13030	2.22984	7 X
K15Bi9P	17.9	0.15	K20CH	32.942	257.805	102.059	6.212	0.19307	2.27668	9 X
K15Bu2W	18.1	0.15	K20CH	53.752	234.143	124.934	6.201	0.20097	2.19419	7 X
K15C19X	15.2	0.15	K20CH	288.371	309.532	169.105	11.094	0.11376	3.95952	10 X
K15D60F	18.8	0.15	K20CH	10.074	273.488	144.004	3.943	0.11644	2.18212	7 X
K15DM4Z	13.7	0.15	K20CH	26.990	273.197	100.483	28.519	0.02861	5.19598	4 X
K15DO4V	18.1	0.15	K20CH	308.825	3.701	120.607	7.267	0.04524	2.28088	7 X
K15E19X	17.3	0.15	K20CH	52.770	229.539	103.166	8.781	0.16464	2.30992	7 X
K15FC6T	17.8	0.15	K20CH	196.464	5.963	226.745	6.652	0.06998	2.20839	7 X
K15FV8P	18.5	0.15	K20CH	256.778	54.129	81.662	7.253	0.05658	2.37206	5 V
K15FW7N	18.3	0.15	K20CH	359.706	330.192	100.186	7.706	0.08579	2.27659	6 X
K15Fh9V	18.9	0.15	K20CH	343.909	47.993	70.187	24.330	0.23756	2.15880	4 X
K15Fi0A	18.2	0.15	K20CH	309.464	333.724	87.806	2.704	0.16901	2.38463	7 V
K15Fi0B	14.2	0.15	K20CH	346.020	321.572	57.589	14.683	0.03826	5.22430	7 V
K15G39K	17.5	0.15	K20CH	330.994	334.703	131.548	8.292	0.08555	2.24480	10 X
K15H55J	17.7	0.15	K20CH	28.690	270.041	123.840	6.800	0.10593	2.32094	7 X
K15H96E	18.6	0.15	K20CH	295.436	253.547	196.161	1.979	0.07950	2.41823	4 V
K15HC6M	18.4	0.15	K20CH	50.536	293.904	21.942	2.104	0.05685	2.53754	5 V
K15HE0S	17.9	0.15	K20CH	5.573	173.320	220.817	13.080	0.17952	2.41496	6 X
K15K21R	17.7	0.15	K20CH	289.805	30.686	118.347	6.122	0.05807	2.26095	7 X
K15KD2W	16.2	0.15	K20CH	69.855	93.313	218.031	18.138	0.13549	2.58237	13 X
K15KE1P	17.8	0.15	K20CH	89.213	18.553	242.171	7.670	0.06092	2.63540	6 V
K15L08G	18.1	0.15	K20CH	58.497	154.482	135.002	11.549	0.35747	2.76845	2 V
K15L11M	16.4	0.15	K20CH	75.832	247.714	86.829	16.002	0.12971	2.56247	10 X
K15L15H	16.7	0.15	K20CH	117.115	192.442	90.093	8.224	0.04826	2.51685	8 X
K15L24Z	17.5	0.15	K20CH	58.173	175.845	170.260	3.557	0.23809	2.55386	5 X
K15L46Q	17.9	0.15	K20CH	289.425	43.179	96.058	24.602	0.21921	2.28251	4 X
K15L53X	17.0	0.15	K20CH	36.741	214.367	158.020	6.095	0.25876	2.56023	8 X
K15L55D	17.4	0.15	K20CH	145.044	19.411	233.893	10.438	0.12906	2.59145	5 V
K15M92C	16.5	0.15	K20CH	352.974	272.492	147.103	22.022	0.07523	2.58552	8 X
K15M99S	17.4	0.15	K20CH	331.618	317.256	120.344	22.911	0.05593	2.60184	5 X
K15MH6F	16.7	0.15	K20CH	139.048	323.213	285.169	19.786	0.06461	2.80530	3 V
K15N20V	16.4	0.15	K20CH	81.946	226.833	73.437	12.873	0.16404	2.60212	11 X
K15N21H	17.6	0.15	K20CH	75.943	99.673	230.292	10.879	0.20269	2.54393	6 X
K15N21N	17.6	0.15	K20CH	53.985	107.923	234.584	9.221	0.27949	2.61517	5 X
K15N27E	16.6	0.15	K20CH	154.488	27.583	235.089	14.101	0.09216	2.58487	11 X
K15N34R	17.5	0.15	K20CH	100.925	349.659	298.480	3.673	0.12522	2.69856	8 V
K15O23S	17.2	0.15	K20CH	87.894	85.621	235.840	11.904	0.20558	2.61974	7 X
K15O29E	16.9	0.15	K20CH	16.536	73.196	336.322	23.824	0.22122	2.76302	5 X
K15O31Z	16.9	0.15	K20CH	81.692	156.056	136.472	23.304	0.27537	2.76857	7 X
K15O32F	17.0	0.15	K20CH	69.283	220.513	106.940	8.529	0.22600	2.73934	6 X
K15O35M	22.1	0.15	K20CH	54.575	84.366	297.906	14.981	0.03389	1.15270	2 X
K15O44M	17.3	0.15	K20CH	20.003	276.715	91.175	8.667	0.23786	2.76694	6 X
K15O48X	16.8	0.15	K20CH	32.569	35.426	347.200	15.221	0.28383	2.71499	6 X
K15O50H	17.3	0.15	K20CH	13.061	310.135	76.235	12.286	0.24320	2.78270	5 X
K15O59B	17.0	0.15	K20CH	58.906	253.067	98.460	14.334	0.14797	2.68427	5 X
K15O76F	16.9	0.15	K20CH	37.582	206.635	176.103	3.067	0.20709	2.76092	9 X
K15O80H	19.4	0.15	K20CH	9.343	200.607	203.683	21.487	0.08344	1.84200	5 X
K15O86B	17.5	0.15	K20CH	37.957	179.861	189.390	8.823	0.21568	2.79024	4 X
K15OD0S	17.7	0.15	K20CH	30.702	269.619	110.341	8.651	0.23878	2.76424	3 X
K15OD9W	17.5	0.15	K20CH	358.105	338.535	93.574	14.953	0.16400	2.64869	5 X
K15OE0L	18.0	0.15	K20CH	45.714	259.822	85.188	8.766	0.21972	2.80476	4 V
K15OE0M	17.9	0.15	K20CH	37.323	36.279	331.910	5.148	0.06345	2.77103	4 V
K15P20E	17.7	0.15	K20CH	11.420	323.438	96.806	12.805	0.27079	2.62814	4 X
K15P49O	17.3	0.15	K20CH	347.307	344.979	78.493	8.817	0.10284	2.70629	7 X
K15P52C	17.3	0.15	K20CH	9.840	271.077	123.159	25.113	0.19623	2.79190	3 X
K15P59C	16.9	0.15	K20CH	50.622	234.726	112.812	7.343	0.04889	2.70503	9 X
K15P90H	17.8	0.15	K20CH	17.936	299.437	101.114	6.997	0.18618	2.65574	6 X
K15PB6H	17.9	0.15	K20CH	322.154	337.427	90.596	4.432	0.08206	2.73440	2 V
K15PD2U	17.7	0.15	K20CH	158.431	250.096	322.298	2.627	0.03194	2.77608	4 V
K15PF1T	17.6	0.15	K20CH	120.577	189.984	66.175	1.433	0.02365	2.76476	7 V
K15PL3K	17.2	0.15	K20CH	278.765	299.353	218.938	14.586	0.05743	2.57271	6 X
K15PS9O	16.7	0.15	K20CH	348.757	345.777	62.963	11.310	0.09467	2.80982	6 X
K15PT4D	17.0	0.15	K20CH	83.273	118.460	202.841	8.782	0.16840	2.72192	7 X
K15PU5E	17.5	0.15	K20CH	6.599	302.011	115.021	5.683	0.10493	2.70843	6 X
K15PX2J	17.8	0.15	K20CH	18.041	320.633	80.772	3.577	0.09981	2.69933	6 X

K15PX5L	17.8	0.15	K20CH	26.400	173.205	167.061	2.231	0.07535	2.87090	3 V
K15PY1N	17.8	0.15	K20CH	13.647	318.120	49.070	5.406	0.06089	2.79784	4 V
K15PY1O	17.6	0.15	K20CH	63.696	248.055	57.365	2.822	0.04999	2.86200	7 V
K15Q13G	17.0	0.15	K20CH	10.787	298.339	110.829	7.865	0.05738	2.80286	7 X
K15Q19C	16.8	0.15	K20CH	354.450	353.303	64.651	14.697	0.29786	3.00713	5 X
K15R04Y	17.5	0.15	K20CH	59.701	213.715	144.948	4.585	0.12625	2.61451	9 X
K15R37T	16.0	0.15	K20CH	121.671	305.320	348.617	24.717	0.13008	2.73451	9 X
K15R44J	18.1	0.15	K20CH	9.739	25.495	329.177	2.455	0.19534	2.98249	4 V
K15R69D	18.2	0.15	K20CH	19.135	244.969	106.983	0.706	0.16164	2.96260	4 V
K15R74Y	17.5	0.15	K20CH	16.850	177.446	184.483	1.777	0.03260	2.94563	6 V
K15R92V	16.6	0.15	K20CH	338.212	198.039	260.625	8.286	0.04721	2.61677	10 X
K15RC8D	17.8	0.15	K20CH	17.462	261.994	149.617	5.553	0.07302	2.66311	5 X
K15RE3J	16.8	0.15	K20CH	63.202	206.295	145.480	6.787	0.04405	2.72229	10 X
K15RF3S	17.9	0.15	K20CH	16.739	186.688	179.257	3.164	0.19069	2.87213	4 V
K15RI9V	18.0	0.15	K20CH	20.926	99.218	243.957	12.907	0.17856	2.86819	2 V
K15RK1C	17.3	0.15	K20CH	27.536	313.078	10.458	19.949	0.13210	3.07825	3 V
K15RK1H	16.7	0.15	K20CH	3.694	77.563	12.619	22.287	0.04996	2.65534	7 X
K15RL7U	17.5	0.15	K20CH	35.226	150.687	182.810	8.102	0.06807	2.99621	3 V
K15RM2W	18.1	0.15	K20CH	23.449	228.013	117.419	2.379	0.17969	2.99088	2 V
K15RN2Q	17.4	0.15	K20CH	21.313	266.417	138.189	5.573	0.11410	2.78140	5 X
K15RP5E	17.3	0.15	K20CH	99.013	163.663	158.881	6.221	0.06749	2.75242	7 X
K15RQ2G	17.2	0.15	K20CH	26.558	215.467	181.700	6.842	0.12563	2.70289	7 X
K15RW7B	18.1	0.15	K20CH	6.197	30.602	24.257	4.361	0.09830	2.78091	3 V
K15RW7C	17.6	0.15	K20CH	42.376	149.856	171.092	3.278	0.10078	3.04064	4 V
K15S08C	16.0	0.15	K20CH	184.868	10.451	199.441	8.727	0.00630	2.86037	11 X
K15S18L	16.0	0.15	K20CH	48.776	241.949	97.611	7.278	0.06799	2.87484	9 X
K15S21X	18.2	0.15	K20CH	218.391	83.386	113.551	23.974	0.03748	1.89745	7 X
K15S22H	18.9	0.15	K20CH	355.722	193.870	224.334	21.435	0.09279	1.87650	5 X
K15S27V	17.4	0.15	K20CH	26.270	275.959	114.544	11.099	0.13675	2.81062	5 X
K15S30R	16.8	0.15	K20CH	325.205	311.264	130.966	6.583	0.04610	2.84877	8 X
K15T06H	16.6	0.15	K20CH	8.208	95.141	333.772	16.185	0.11906	2.55234	10 X
K15T41U	17.3	0.15	K20CH	327.926	322.576	114.503	13.991	0.08228	2.77607	6 V
K15T85Q	15.8	0.15	K20CH	320.941	18.702	51.975	11.400	0.01836	3.06978	7 X
K15TB9H	16.0	0.15	K20CH	82.377	153.106	148.943	17.914	0.15637	3.17140	9 X
K15TD3T	17.0	0.15	K20CH	339.383	347.842	105.289	11.989	0.11079	2.86773	7 X
K15TN7P	18.0	0.15	K20CH	6.696	251.008	156.799	3.510	0.45467	2.97111	4 X
K15TO7Y	17.6	0.15	K20CH	28.358	203.396	188.241	4.447	0.07778	2.77127	7 X
K15TP4V	17.0	0.15	K20CH	341.362	343.123	51.304	12.094	0.03221	3.09243	3 V
K15TQ2D	17.0	0.15	K20CH	54.428	354.572	308.520	10.065	0.12044	3.00009	2 V
K15TT6R	18.0	0.15	K20CH	8.275	208.086	206.079	4.047	0.10646	2.79049	4 V
K15TU8S	17.7	0.15	K20CH	21.297	315.682	78.681	15.550	0.14992	2.84086	2 V
K15TV2H	16.3	0.15	K20CH	51.071	200.706	134.573	19.165	0.19056	3.02460	8 X
K15TW2L	17.3	0.15	K20CH	4.610	257.515	164.655	5.918	0.12067	2.78783	8 X
K15TX9Y	16.5	0.15	K20CH	326.609	73.902	22.370	22.345	0.06084	2.67150	8 X
K15TZ2N	18.1	0.15	K20CH	110.825	196.062	93.692	23.356	0.05096	1.89769	5 X
K15Tc6Z	16.0	0.15	K20CH	48.319	36.614	308.560	14.930	0.25196	2.94804	6 X
K15Th5Z	17.2	0.15	K20CH	24.993	135.104	201.457	9.280	0.05603	3.14847	4 V
K15Th6A	16.8	0.15	K20CH	274.440	37.945	48.710	9.809	0.08850	3.18274	3 V
K15U06E	16.0	0.15	K20CH	35.160	270.067	88.671	11.505	0.15730	2.87274	12 X
K15U06Q	16.5	0.15	K20CH	61.979	282.635	85.773	5.969	0.09706	2.74297	9 X
K15U48P	16.9	0.15	K20CH	15.966	187.446	188.118	12.164	0.25969	2.98914	6 X
K15U55D	17.3	0.15	K20CH	306.679	270.575	181.613	1.930	0.04087	2.92324	9 V
K15U87K	16.7	0.15	K20CH	339.879	237.606	217.560	12.876	0.24140	2.99768	7 X
K15V23C	16.8	0.15	K20CH	110.023	309.555	297.262	1.419	0.05548	3.07178	10 V
K15V36S	16.8	0.15	K20CH	348.913	344.729	45.076	16.263	0.11187	3.09403	4 V
K15V80L	16.9	0.15	K20CH	99.881	171.861	151.321	4.821	0.06138	2.79943	10 X
K15VA2D	16.6	0.15	K20CH	5.913	324.218	73.518	11.128	0.08893	2.97498	9 X
K15VA5Z	17.4	0.15	K20CH	46.462	276.209	74.893	23.535	0.13148	1.87937	9 X
K15VB8D	15.6	0.15	K20CH	215.818	104.821	77.424	8.347	0.08861	3.06765	12 X
K15VC4E	16.6	0.15	K20CH	356.687	349.298	62.969	16.327	0.20505	3.02933	5 X
K15VC5O	15.6	0.15	K20CH	126.814	191.674	71.775	9.767	0.16573	2.89113	10 X
K15VC6Z	16.2	0.15	K20CH	41.497	252.505	85.042	1.946	0.14664	3.05856	14 X
K15VF2Y	17.8	0.15	K20CH	351.930	125.770	299.396	17.970	0.08485	1.93239	5 X
K15VF5H	17.4	0.15	K20CH	356.110	278.926	151.386	2.402	0.18790	2.89663	9 X
K15VJ8U	17.1	0.15	K20CH	323.959	300.396	111.893	3.367	0.06100	3.14141	6 V
K15VJ8V	16.9	0.15	K20CH	330.864	121.913	267.369	8.739	0.08579	3.13031	4 V
K15VJ8W	17.2	0.15	K20CH	300.928	66.571	55.150	8.118	0.07356	2.98010	5 V
K15X11K	16.7	0.15	K20CH	9.255	326.267	58.153	16.105	0.14211	2.86670	4 X
K15X13L	17.2	0.15	K20CH	338.278	226.754	225.617	8.960	0.04429	2.87055	8 X
K15X15P	17.1	0.15	K20CH	24.486	266.740	72.761	12.273	0.14585	3.14429	5 V
K15X23C	17.0	0.15	K20CH	6.786	278.537	118.157	6.968	0.20646	2.97003	5 X
K15X24B	17.1	0.15	K20CH	7.367	237.094	178.290	5.130	0.09460	2.90785	10 X
K15X62A	16.6	0.15	K20CH	99.772	231.487	92.991	13.212	0.05544	2.92836	7 X
K15X69W	15.8	0.15	K20CH	347.605	151.616	282.657	15.694	0.10824	3.09545	8 X
K15X81O	15.6	0.15	K20CH	73.626	128.631	194.224	12.902	0.05438	3.12799	12 X
K15XA0G	17.3	0.15	K20CH	32.042	271.984	106.264	6.855	0.21403	2.94185	4 X
K15XD0W	16.4	0.15	K20CH	300.287	46.991	81.690	12.651	0.04826	2.97027	7 X
K15XH4K	17.1	0.15	K20CH	62.792	129.406	205.881	8.246	0.08410	3.03899	6 V
K15XH8W	16.1	0.15	K20CH	248.660	317.515	223.752	9.869	0.06111	2.98223	10 X
K15XL5X	17.2	0.15	K20CH	9.730	220.181	189.890	0.895	0.12602	2.96886	6 X
K15XO5P	15.4	0.15	K20CH	300.694	252.236	255.639	13.651	0.09024	3.16503	11 X
K15XP0M	16.5	0.15	K20CH	91.461	209.036	88.820	28.878	0.09470	3.03312	8 X
K15XP0U	16.2	0.15	K20CH	245.325	44.265	115.391	19.273	0.06765	3.07741	8 X
K15XW9J	17.0	0.15	K20CH	352.556	338.265	73.598	11.092	0.12473	3.09034	5 V
K15XZ8U	16.3	0.15	K20CH	12.642	190.928	200.996	10.255	0.18130	2.97834	8 X
K15Xc1L	16.5	0.15	K20CH	33.154	213.302	138.225	18.768	0.26914	3.07932	5 X
K15Xc2K	15.4	0.15	K20CH	250.795	96.707	78.027	23.410	0.04026	3.06970	7 X
K15Xd5H	16.5	0.15	K20CH	341.358	248.733	213.058	10.188	0.25976	3.06705	8 X
K15Xe2W	16.1	0.15	K20CH	299.445	37.502	94.413	12.665	0.05291	3.17352	9 X
K15Xe8L	17.2	0.15	K20CH	317.007	249.527	233.404	9.597	0.10063	2.90998	5 X
K15Xi8J	17.5	0.15	K20CH	321.149	43.851	78.556	14.496	0.23563	3.14934	3 X
K15Xk1S	19.0	0.15	K20CH	94.829	83.089	241.179	19.554	0.09173	1.86501	2 X
K15Xk2N	17.2	0.15	K20CH	269.758	284.883	226.805	8.229	0.08356	3.07572	5 V

K15Y04X	15.9	0.15	K20CH	290.308	208.676	326.969	28.312	0.20982	3.18067	4 X
K15Y17P	15.8	0.15	K20CH	93.807	329.407	17.011	18.421	0.08231	3.12033	9 X
K16A00F	16.5	0.15	K20CH	328.607	211.953	272.208	10.666	0.23037	3.03285	6 X
K16A05Q	16.1	0.15	K20CH	331.484	4.803	91.080	13.053	0.07488	3.10696	8 X
K16A17T	16.5	0.15	K20CH	75.427	241.028	99.584	14.437	0.08236	3.13511	8 X
K16A21C	16.0	0.15	K20CH	3.436	302.821	96.525	10.002	0.12513	3.19919	9 X
K16A40O	16.2	0.15	K20CH	86.836	234.385	99.471	10.712	0.07099	3.12202	10 X
K16A50R	16.3	0.15	K20CH	345.860	331.997	111.352	12.040	0.05844	3.13114	9 X
K16A55G	16.8	0.15	K20CH	26.227	257.281	134.588	6.080	0.13446	3.12286	8 X
K16A60C	17.2	0.15	K20CH	40.101	268.469	103.319	7.788	0.16488	3.10615	6 X
K16A68C	16.1	0.15	K20CH	343.252	326.381	106.955	8.885	0.14875	3.09516	11 X
K16A69H	16.2	0.15	K20CH	72.875	253.574	94.806	11.300	0.07146	3.06221	8 X
K16A75M	15.9	0.15	K20CH	7.530	135.938	302.108	26.640	0.16301	3.11389	8 X
K16A87Q	15.9	0.15	K20CH	276.968	59.204	92.358	11.856	0.05464	3.01611	8 X
K16AB4K	16.1	0.15	K20CH	10.273	307.702	100.571	13.731	0.15685	3.23233	8 X
K16AB6A	16.5	0.15	K20CH	18.395	277.615	130.117	26.086	0.28765	3.11569	6 X
K16AB9D	18.8	0.15	K20CH	349.137	147.552	308.592	18.904	0.08358	1.89655	3 X
K16AC4J	16.8	0.15	K20CH	8.049	104.105	330.185	17.379	0.25158	3.10365	5 X
K16AC5U	17.1	0.15	K20CH	21.057	288.971	113.229	8.254	0.29169	3.14299	6 X
K16AD0X	17.7	0.15	K20CH	54.855	107.432	253.188	16.077	0.11217	1.92143	8 X
K16AD2R	16.5	0.15	K20CH	40.692	209.863	151.869	22.190	0.01742	3.17708	6 X
K16AD2W	16.4	0.15	K20CH	306.250	309.266	156.735	23.306	0.07408	3.13309	6 X
K16AD3B	16.9	0.15	K20CH	309.650	296.991	171.197	19.831	0.14825	3.14421	7 X
K16AD4N	16.0	0.15	K20CH	301.421	343.095	130.944	22.872	0.07083	3.08035	9 X
K16AD8S	16.9	0.15	K20CH	327.336	309.030	143.702	16.667	0.21686	3.19257	3 X
K16AG6T	15.5	0.15	K20CH	303.986	186.404	313.963	27.114	0.13672	3.17950	8 X
K16AJ5K	17.6	0.15	K20CH	173.636	226.778	41.941	23.287	0.03356	1.99254	7 X
K16AJ6K	18.4	0.15	K20CH	49.275	133.890	219.973	19.608	0.10858	1.90765	6 X
K16AJ8W	18.7	0.15	K20CH	343.731	129.657	338.107	18.185	0.09944	1.92414	5 X
K16AJ9B	18.9	0.15	K20CH	224.910	66.808	128.706	23.740	0.08731	1.90305	5 X
K16AJ9X	19.0	0.15	K20CH	16.002	94.738	331.204	20.037	0.07525	1.90798	4 X
K16AK0K	16.6	0.15	K20CH	332.213	125.474	337.371	23.022	0.15814	3.12017	6 X
K16AL0M	17.0	0.15	K20CH	355.667	196.486	233.485	8.642	0.19120	3.10751	4 X
K16AL3X	16.1	0.15	K20CH	17.452	100.418	317.671	25.249	0.22906	3.17435	5 X
K16AN3W	17.3	0.15	K20CH	321.284	302.881	186.998	4.311	0.24275	3.08764	4 X
K16AQ0H	16.4	0.15	K20CH	331.677	140.568	328.055	20.337	0.16809	3.19825	7 X
K16AR8X	15.8	0.15	K20CH	121.137	328.657	347.660	26.461	0.05387	3.13511	6 X
K16AT5L	16.8	0.15	K20CH	14.144	108.769	303.765	24.489	0.25749	3.20041	3 X
K16AV1R	17.6	0.15	K20CH	347.814	291.579	156.710	6.142	0.30217	3.05275	5 X
K16AV7Q	17.8	0.15	K20CH	20.270	178.129	173.288	3.011	0.39850	3.08754	3 X
K16AW4V	16.5	0.15	K20CH	315.991	338.699	135.070	18.770	0.17883	3.13774	6 X
K16AW5K	17.2	0.15	K20CH	11.619	271.518	142.633	6.168	0.12823	3.16490	6 X
K16AW5M	17.9	0.15	K20CH	6.649	281.102	133.293	6.770	0.28870	3.06655	3 X
K16AW6W	17.6	0.15	K20CH	23.857	279.014	95.807	18.265	0.41248	3.06201	3 X
K16B01N	20.6	0.15	K20CH	286.992	293.051	267.735	23.625	0.23963	1.40341	3 X
K16B04L	17.1	0.15	K20CH	323.004	323.515	158.730	6.736	0.23198	3.10096	7 X
K16B14Z	18.4	0.15	K20CH	355.360	32.210	137.359	31.310	0.66748	2.85253	2 X
K16B27W	16.8	0.15	K20CH	17.567	309.479	99.512	10.489	0.11199	3.14718	7 X
K16B40X	16.3	0.15	K20CH	23.908	279.180	125.748	17.305	0.29197	3.05829	6 X
K16B80L	15.8	0.15	K20CH	30.375	60.387	329.981	25.414	0.17474	3.22958	8 X
K16B88F	16.7	0.15	K20CH	340.748	60.310	62.185	27.028	0.25290	3.12251	8 X
K16C29V	18.1	0.15	K20CH	119.161	353.831	334.054	20.998	0.06013	1.88136	5 X
K16C70J	15.6	0.15	K20CH	328.664	152.581	340.702	23.484	0.09891	3.09073	9 X
K16C72A	16.9	0.15	K20CH	354.251	352.220	79.791	17.917	0.17718	3.11988	4 X
K16C94G	16.6	0.15	K20CH	335.347	270.947	191.255	8.835	0.16536	3.16456	7 X
K16CD5X	19.1	0.15	K20CH	337.140	205.802	310.857	25.019	0.53295	2.90094	2 V
K16CE4A	15.7	0.15	K20CH	305.698	9.247	109.694	10.639	0.06460	3.18501	10 X
K16CG1B	17.9	0.15	K20CH	0.790	298.367	131.665	10.686	0.28933	3.07352	3 V
K16CG1F	16.6	0.15	K20CH	13.309	268.919	141.146	6.574	0.15699	3.17756	7 X
K16CK8J	15.6	0.15	K20CH	223.810	256.643	336.592	20.788	0.02611	3.21116	6 X
K16CL2A	16.0	0.15	K20CH	36.938	229.111	148.254	8.871	0.15635	3.44184	8 X
K16CM2V	16.7	0.15	K20CH	350.745	350.223	91.659	20.230	0.26195	3.11125	3 X
K16CO7O	20.3	0.15	K20CH	19.230	90.300	292.226	18.349	0.51330	1.42005	3 X
K16CP3A	16.0	0.15	K20CH	152.293	113.743	132.927	17.597	0.02406	3.42897	8 X
K16CQ6X	18.7	0.15	K20CH	344.436	110.566	337.089	17.943	0.09736	1.91214	3 X
K16CU6P	16.4	0.15	K20CH	283.215	214.914	328.584	21.467	0.10920	3.20651	6 X
K16CX4A	19.1	0.15	K20CH	327.874	270.059	187.975	21.810	0.08194	1.93434	4 X
K16Ca1L	19.5	0.15	K20CH	357.993	84.797	332.551	22.689	0.16404	1.94069	3 V
K16D27R	15.6	0.15	K20CH	339.703	6.730	103.862	30.824	0.21416	3.13440	7 X
K16D31M	18.5	0.15	K20CH	333.657	55.266	66.146	23.184	0.07800	1.93332	2 X
K16E24W	18.8	0.15	K20CH	329.523	149.712	335.795	18.410	0.06919	1.93885	5 X
K16E71X	17.9	0.15	K20CH	323.066	130.644	349.805	18.925	0.07251	1.96398	6 X
K16E79A	18.1	0.15	K20CH	327.225	84.789	29.618	21.717	0.07190	1.97783	5 X
K16EA9G	17.5	0.15	K20CH	347.945	101.213	9.304	15.082	0.25522	3.09834	3 X
K16EI7J	18.4	0.15	K20CH	301.480	294.520	183.259	21.889	0.08339	1.96721	5 X
K16F41Z	16.3	0.15	K20CH	322.193	131.757	18.013	16.713	0.18849	3.18409	8 X
K16G05B	19.0	0.15	K20CH	133.662	55.335	216.802	4.354	0.13519	2.07420	5 V
K16GROS	19.0	0.15	K20CH	337.626	66.683	46.436	22.026	0.17042	1.96530	3 X
K16H21A	19.1	0.15	K20CH	90.186	249.724	28.878	4.593	0.14426	2.24038	3 V
K16J33U	20.9	0.15	K20CH	332.710	223.520	293.381	3.894	0.53454	1.82722	2 X
K16L24U	19.2	0.15	K20CH	77.088	108.880	177.364	4.552	0.19668	2.32154	3 V
K16L79P	18.3	0.15	K20CH	11.170	113.212	231.114	15.687	0.17854	2.57793	4 V
K16N00K	18.4	0.15	K20CH	38.152	233.021	125.334	4.348	0.32063	2.31679	3 X
K16N51K	18.0	0.15	K20CH	56.206	204.977	140.416	6.944	0.22717	2.40534	3 X
K16NC8N	18.4	0.15	K20CH	25.130	241.474	146.919	2.572	0.20939	2.35325	6 X
K16ND0N	18.3	0.15	K20CH	33.119	204.672	176.894	5.899	0.22057	2.33086	3 X
K16ND2K	18.5	0.15	K20CH	49.314	260.596	65.282	6.028	0.10916	2.43962	5 V
K16ND2L	18.4	0.15	K20CH	82.841	83.365	192.765	14.145	0.14593	2.42416	3 V
K16ND2M	18.6	0.15	K20CH	76.563	351.831	334.977	3.816	0.13941	2.36094	6 V
K16O02Q	17.2	0.15	K20CH	8.642	96.344	285.911	14.333	0.42969	2.49357	4 X
K16O10P	17.9	0.15	K20CH	42.406	271.792	103.388	8.692	0.13174	2.39909	4 X
K16O12F	17.4	0.15	K20CH	338.184	281.463	128.895	12.174	0.18692	2.57917	5 V
K16O12N	17.7	0.15	K20CH	53.869	245.233	105.981	7.901	0.23594	2.36331	6 X

K16P31P	19.1	0.15	K20CH	26.398	334.781	0.744	15.265	0.18555	2.51522	2 V
K16P39O	19.4	0.15	K20CH	336.239	218.962	335.967	33.139	0.52050	1.84456	3 X
K16P51C	18.3	0.15	K20CH	349.077	353.801	22.101	6.752	0.21348	2.54184	5 V
K16P76F	17.4	0.15	K20CH	29.544	226.743	167.481	4.455	0.14746	2.42865	6 X
K16P98Y	17.0	0.15	K20CH	326.545	346.260	95.627	7.514	0.08830	2.39597	8 X
K16PE8V	17.5	0.15	K20CH	22.880	300.050	66.670	8.693	0.18597	2.46075	4 X
K16PH6N	18.4	0.15	K20CH	14.099	238.808	147.457	5.122	0.22764	2.41105	4 X
K16PI4C	17.8	0.15	K20CH	35.552	280.915	88.811	6.346	0.21033	2.44177	6 X
K16Q00D	18.9	0.15	K20CH	194.624	348.557	17.278	11.600	0.38921	1.96997	3 X
K16Q11F	17.5	0.15	K20CH	33.235	47.198	339.666	15.521	0.29819	2.42705	4 X
K16Q29Y	17.7	0.15	K20CH	35.856	271.189	114.428	6.248	0.15179	2.34714	10 X
K16QB7Z	18.3	0.15	K20CH	63.228	310.009	25.301	3.592	0.18093	2.41504	5 V
K16QB9Z	18.3	0.15	K20CH	23.894	256.734	141.998	5.676	0.17900	2.42957	3 X
K16QC0O	19.5	0.15	K20CH	18.566	201.961	157.917	6.921	0.27379	2.55484	2 V
K16R02U	17.2	0.15	K20CH	242.346	332.249	220.433	6.313	0.05591	2.32914	10 X
K16R26U	17.6	0.15	K20CH	87.188	222.282	102.463	10.484	0.18539	2.36525	9 X
K16R27D	17.1	0.15	K20CH	21.926	223.157	161.068	7.810	0.18467	2.43958	8 X
K16R46S	17.6	0.15	K20CH	6.827	217.816	198.716	6.103	0.11479	2.41546	10 X
K16R69Q	17.8	0.15	K20CH	41.573	243.170	130.347	7.400	0.12064	2.39618	6 X
K16R70R	17.8	0.15	K20CH	36.454	282.560	97.494	11.189	0.16240	2.47875	6 X
K16S15V	17.8	0.15	K20CH	39.516	229.741	144.603	3.027	0.21441	2.42482	4 V
K16S30P	17.8	0.15	K20CH	38.256	275.461	89.149	12.315	0.28434	2.47285	4 X
K16S31N	17.6	0.15	K20CH	36.454	233.560	141.627	3.173	0.18624	2.43295	9 X
K16S66M	17.2	0.15	K20CH	312.495	24.525	81.640	33.484	0.16429	2.60711	4 X
K16S88T	17.5	0.15	K20CH	11.690	239.565	155.084	18.944	0.19925	2.55688	3 X
K16S88Y	18.3	0.15	K20CH	334.687	273.993	195.376	20.335	0.28376	2.43095	3 X
K16S90W	18.2	0.15	K20CH	1.302	280.366	148.868	7.019	0.08112	2.36628	7 X
K16S91J	18.4	0.15	K20CH	68.938	278.530	17.284	14.299	0.13945	2.56375	3 V
K16S91K	19.8	0.15	K20CH	1.563	246.276	170.638	3.870	0.28650	2.49283	2 V
K16T30H	16.9	0.15	K20CH	28.010	142.292	223.322	17.960	0.25240	2.56697	6 X
K16T36E	19.1	0.15	K20CH	29.422	50.799	356.219	12.943	0.21615	2.38046	3 X
K16T43F	18.6	0.15	K20CH	7.205	170.031	187.137	3.480	0.22954	2.63358	3 V
K16T68Q	17.7	0.15	K20CH	295.577	300.765	193.223	6.861	0.04861	2.35360	6 X
K16T85C	17.2	0.15	K20CH	358.910	205.041	195.473	6.955	0.23871	2.59535	5 X
K16T86Q	17.4	0.15	K20CH	10.280	190.257	202.588	9.284	0.21557	2.55609	7 X
K16TD5Y	17.4	0.15	K20CH	307.440	2.647	55.812	6.194	0.05876	2.80494	4 V
K16TF2R	18.7	0.15	K20CH	349.693	242.683	195.846	26.463	0.31197	2.58260	2 X
K16TF4D	18.1	0.15	K20CH	344.840	317.101	116.342	14.107	0.19072	2.55229	2 V
K16TF4E	18.2	0.15	K20CH	333.545	236.936	173.360	6.789	0.10323	2.68176	3 V
K16U37L	17.3	0.15	K20CH	30.508	309.853	51.390	9.835	0.11099	2.60995	4 X
K16U56O	17.3	0.15	K20CH	41.553	252.886	89.261	5.657	0.24133	2.62927	5 X
K16U79S	17.1	0.15	K20CH	22.710	243.670	121.888	5.554	0.18121	2.58965	10 X
K16UE8W	17.2	0.15	K20CH	50.075	239.528	100.608	4.999	0.13160	2.55315	12 X
K16UE9R	17.0	0.15	K20CH	356.410	357.709	70.383	15.651	0.08311	2.55790	6 X
K16UI2Q	18.9	0.15	K20CH	50.384	314.918	357.400	2.101	0.20372	2.62175	2 V
K16UI2R	17.9	0.15	K20CH	0.702	344.691	3.203	3.107	0.10725	2.77253	4 V
K16UM0E	18.9	0.15	K20CH	58.877	91.987	210.059	1.815	0.19210	2.63971	2 V
K16UM4E	19.0	0.15	K20CH	34.338	294.651	30.255	12.917	0.19617	2.66793	2 V
K16UM7J	18.6	0.15	K20CH	291.087	232.666	245.470	2.595	0.05602	2.54596	3 V
K16UN2F	18.3	0.15	K20CH	59.391	332.286	328.587	0.802	0.13475	2.68892	4 V
K16UO1D	18.1	0.15	K20CH	185.538	127.796	50.406	5.100	0.00835	2.75046	3 V
K16UP4Y	18.1	0.15	K20CH	26.604	153.393	210.868	13.624	0.26818	2.58915	3 X
K16UQ2D	18.9	0.15	K20CH	1.152	305.106	88.121	10.514	0.24631	2.62883	2 V
K16UQ2E	17.9	0.15	K20CH	310.424	273.776	164.298	14.821	0.08601	2.59831	5 V
K16V04M	17.1	0.15	K20CH	355.522	53.835	12.511	29.902	0.41380	2.59015	4 X
K16V08C	17.7	0.15	K20CH	338.700	250.558	194.030	29.811	0.23659	2.59339	2 X
K16V15E	17.6	0.15	K20CH	56.974	17.095	10.256	15.369	0.08857	2.37847	5 X
K16V33D	17.2	0.15	K20CH	22.324	151.799	253.199	12.482	0.24244	2.57837	3 X
K16V41N	18.0	0.15	K20CH	8.619	199.727	224.898	2.887	0.24383	2.53943	2 X
K16V41P	17.6	0.15	K20CH	68.112	269.200	73.900	13.488	0.09980	2.51993	3 X
K16V42K	17.9	0.15	K20CH	359.070	359.805	27.508	2.247	0.07316	2.70238	3 V
K16V42L	18.2	0.15	K20CH	350.317	140.155	270.066	10.792	0.12480	2.60597	3 V
K16W10G	20.9	0.15	K20CH	347.278	199.741	312.940	10.571	0.66062	2.50051	3 X
K16W18O	17.1	0.15	K20CH	83.749	151.156	179.896	3.741	0.08211	2.52345	11 X
K16W22Y	16.7	0.15	K20CH	48.616	265.990	62.167	13.790	0.19923	2.63683	7 X
K16W43L	18.3	0.15	K20CH	353.548	351.169	44.457	5.548	0.15779	2.67133	3 V
K16W68C	17.6	0.15	K20CH	32.878	288.632	94.094	17.161	0.16755	2.55947	2 X
K16W69P	18.5	0.15	K20CH	7.616	210.209	207.513	13.113	0.25528	2.54501	2 V
K16W69Q	17.6	0.15	K20CH	42.420	266.544	114.444	15.690	0.14314	2.54445	2 V
K16W69R	17.8	0.15	K20CH	291.168	289.612	217.044	10.911	0.23968	2.64305	7 V
K16W69S	18.0	0.15	K20CH	0.771	291.970	127.885	12.668	0.16504	2.56084	2 V
K16X04A	16.3	0.15	K20CH	31.702	281.695	87.941	12.401	0.22397	2.59296	9 X
K16X04V	17.7	0.15	K20CH	316.680	256.576	233.455	10.224	0.21842	2.54559	4 X
K16X04Y	16.9	0.15	K20CH	31.318	294.467	89.702	12.854	0.13174	2.56487	7 X
K16X27P	17.5	0.15	K20CH	33.395	227.713	129.971	5.088	0.19250	2.63482	8 X
K16X31B	17.6	0.15	K20CH	324.380	324.646	149.915	5.486	0.11099	2.55499	7 X
K16Y07L	17.7	0.15	K20CH	5.258	311.849	80.853	9.116	0.30656	2.67317	5 X
K16Y08R	18.8	0.15	K20CH	20.329	59.674	325.085	30.251	0.50847	2.55501	2 X
K16Y09B	17.0	0.15	K20CH	28.631	49.870	356.557	12.116	0.21918	2.51946	4 X
K16Y10P	18.7	0.15	K20CH	14.579	76.171	307.940	26.554	0.43546	2.60859	3 X
K16Y11J	17.3	0.15	K20CH	19.086	282.620	120.933	6.688	0.17983	2.54129	5 X
K16Y11V	15.9	0.15	K20CH	52.908	328.168	25.897	20.925	0.30594	2.57095	7 X
K16Y20R	18.1	0.15	K20CH	3.481	182.121	224.628	12.639	0.28993	2.60445	3 X
K16Y23O	17.1	0.15	K20CH	357.835	189.014	245.542	21.389	0.02930	2.58870	3 X
K16Y23U	18.0	0.15	K20CH	41.886	199.966	161.420	14.540	0.16785	2.62569	4 V
K16Y23V	17.4	0.15	K20CH	347.834	331.369	93.036	14.168	0.12279	2.73685	4 V
K17A05N	17.9	0.15	K20CH	4.714	319.659	82.191	14.340	0.25561	2.58714	3 X
K17A19A	18.1	0.15	K20CH	11.298	174.498	238.812	12.567	0.24946	2.60974	3 X
K17A28A	17.6	0.15	K20CH	346.385	76.843	16.832	28.857	0.32990	2.62165	4 X
K17A34R	17.7	0.15	K20CH	315.899	254.558	226.761	10.688	0.15105	2.72018	5 X
K17A38N	17.7	0.15	K20CH	29.439	270.065	104.971	9.341	0.24944	2.69716	4 X
K17A39T	18.7	0.15	K20CH	6.805	251.616	145.309	14.596	0.30858	2.70665	2 X
K17A40K	17.2	0.15	K20CH	305.713	294.540	156.764	15.858	0.13944	2.98680	4 V

K17B01K	17.0	0.15	K20CH	354.732	332.492	119.161	18.706	0.20687	2.59557	6 X
K17B04O	16.8	0.15	K20CH	20.073	194.639	197.462	11.756	0.18383	2.57648	9 X
K17B14P	16.2	0.15	K20CH	357.445	298.306	104.078	7.575	0.06349	2.86642	9 X
K17B31H	16.4	0.15	K20CH	358.303	109.993	7.900	29.620	0.33342	2.62919	7 X
K17B31O	19.7	0.15	K20CH	5.565	16.750	23.877	6.653	0.77523	2.54385	3 X
K17B34F	16.6	0.15	K20CH	358.091	198.244	220.132	12.496	0.27876	2.58092	9 X
K17B35C	16.5	0.15	K20CH	320.905	201.434	302.755	32.128	0.14802	2.60657	5 X
K17B41H	17.4	0.15	K20CH	5.890	318.298	109.762	6.273	0.28036	2.60464	8 X
K17B49K	16.8	0.15	K20CH	312.956	328.876	128.910	15.832	0.09894	2.86447	4 X
K17B85D	16.9	0.15	K20CH	353.273	221.983	209.069	8.433	0.06559	2.81032	7 X
K17B93Q	20.3	0.15	K20CH	328.418	229.142	284.006	38.653	0.42258	1.57008	3 X
K17BB8D	16.7	0.15	K20CH	0.293	105.018	342.088	20.925	0.10745	2.66824	6 X
K17BC3W	16.8	0.15	K20CH	13.524	108.325	322.086	21.641	0.02470	2.66010	8 X
K17BC8F	17.2	0.15	K20CH	304.805	137.146	288.671	8.533	0.09727	3.10315	3 V
K17BD7C	16.5	0.15	K20CH	223.004	76.319	131.983	9.565	0.06595	2.97510	6 X
K17BD8E	16.2	0.15	K20CH	89.082	106.776	218.475	9.852	0.05729	3.03971	10 X
K17BF9S	18.5	0.15	K20CH	11.521	294.672	91.563	8.565	0.36103	2.69078	4 X
K17BG8R	16.9	0.15	K20CH	305.766	260.657	264.260	27.612	0.31921	2.59005	2 X
K17BG8W	17.6	0.15	K20CH	24.591	300.898	92.190	12.498	0.18943	2.68274	3 X
K17C01S	20.0	0.15	K20CH	359.330	153.449	294.716	37.756	0.36025	2.54803	2 X
K17C07H	16.3	0.15	K20CH	345.216	132.714	308.620	12.155	0.14227	2.77399	10 X
K17C17D	17.2	0.15	K20CH	36.824	261.016	117.519	5.728	0.18289	2.77033	8 X
K17C33P	16.7	0.15	K20CH	17.609	95.694	335.474	21.776	0.05246	2.67250	6 X
K17C41J	17.7	0.15	K20CH	349.491	239.713	208.367	4.845	0.29533	2.68191	5 X
K17D06F	16.5	0.15	K20CH	354.191	199.710	201.886	9.101	0.15050	2.97031	7 X
K17D09W	16.6	0.15	K20CH	9.467	276.873	139.763	4.413	0.09072	2.80654	10 X
K17D40Q	17.5	0.15	K20CH	24.795	278.937	117.658	5.713	0.15957	2.79606	7 X
K17D57W	16.2	0.15	K20CH	352.230	357.128	52.573	11.186	0.13253	3.02703	8 X
K17D59W	16.5	0.15	K20CH	58.496	271.474	87.645	11.879	0.08481	3.02117	8 X
K17D60U	16.9	0.15	K20CH	300.802	35.246	99.295	13.864	0.08693	2.89471	6 X
K17D82A	16.8	0.15	K20CH	354.657	318.492	103.553	10.761	0.24839	2.77265	7 X
K17D89M	16.6	0.15	K20CH	9.215	154.209	271.383	8.669	0.20901	2.74050	6 X
K17DA4N	17.0	0.15	K20CH	359.540	67.741	32.779	22.243	0.06421	2.68483	6 X
K17DD5L	16.8	0.15	K20CH	52.819	318.215	45.431	11.314	0.04820	3.14341	4 V
K17DD5M	17.0	0.15	K20CH	150.884	31.954	228.479	10.276	0.05251	3.12283	5 V
K17DD5N	16.9	0.15	K20CH	317.498	66.801	28.124	10.978	0.08618	3.04809	4 V
K17E05M	17.6	0.15	K20CH	359.314	103.003	18.648	29.843	0.28829	2.58333	3 X
K17E28F	16.8	0.15	K20CH	238.196	167.841	9.591	9.192	0.06037	3.20344	3 V
K17F10A	15.8	0.15	K20CH	359.575	346.165	75.045	12.800	0.09078	3.05916	8 X
K17F23A	16.5	0.15	K20CH	312.991	264.049	219.022	8.295	0.05622	2.96175	8 X
K17F24V	16.3	0.15	K20CH	353.770	210.658	203.416	10.637	0.14650	3.06494	10 X
K17F43W	16.1	0.15	K20CH	220.233	92.701	110.478	9.942	0.05860	3.19496	7 X
K17F64J	18.6	0.15	K20CH	181.555	126.286	100.535	22.306	0.06833	1.74521	4 X
K17F67J	16.1	0.15	K20CH	60.419	259.326	95.161	11.530	0.08428	3.13900	11 X
K17F67L	16.4	0.15	K20CH	9.691	325.852	93.634	10.736	0.05213	2.98577	8 X
K17F72Q	17.6	0.15	K20CH	341.088	226.726	227.666	8.661	0.17107	2.78377	5 X
K17F95V	16.3	0.15	K20CH	309.699	267.314	230.175	8.652	0.15805	2.92914	10 X
K17FA0O	16.6	0.15	K20CH	356.547	277.349	135.246	20.108	0.10547	3.16543	7 X
K17FC6D	16.1	0.15	K20CH	335.022	268.600	163.523	9.094	0.07365	3.17460	9 X
K17FE2K	16.0	0.15	K20CH	264.491	72.703	92.824	10.353	0.04531	3.16446	8 X
K17G08X	15.4	0.15	K20CH	198.700	152.014	84.606	18.582	0.05091	3.04662	11 X
K17H09K	15.8	0.15	K20CH	215.362	110.858	100.510	6.203	0.12020	3.21678	10 X
K17H73D	16.4	0.15	K20CH	301.673	330.369	160.421	23.531	0.18063	3.17363	6 X
K17K01V	16.2	0.15	K20CH	290.737	73.043	78.305	16.613	0.15990	3.09605	10 X
K17O39J	18.3	0.15	K20CH	219.235	267.717	324.314	18.279	0.01899	1.85581	6 X
K17P25O	17.6	0.15	K20CH	116.488	177.326	120.864	22.895	0.04827	1.90430	5 X
K17R01B	18.2	0.15	K20CH	326.572	206.637	270.125	19.005	0.06425	1.91181	4 X
K17RB2Q	18.1	0.15	K20CH	122.977	67.857	261.886	19.378	0.05804	1.85231	4 V
K17S14N	18.8	0.15	K20CH	178.828	287.365	316.254	24.975	0.43927	0.97954	4 X
K17S51H	18.7	0.15	K20CH	296.095	305.572	183.182	21.726	0.04996	1.96564	5 X
K17W40Y	18.3	0.15	K20CH	39.816	201.131	181.317	6.079	0.10723	2.22187	4 X
K17W48K	16.8	0.15	K20CH	220.493	257.500	152.541	11.572	0.06418	3.09464	4 X
K17X00G	17.8	0.15	K20CH	321.808	204.847	305.863	28.073	0.32238	2.19869	2 X
K17X62L	18.8	0.15	K20CH	6.881	107.247	287.540	21.458	0.41421	2.19659	2 X
K17Y16W	17.5	0.15	K20CH	291.961	39.026	108.096	7.602	0.13881	2.41662	5 X
K17Y30Z	19.5	0.15	K20CH	357.481	294.487	122.392	16.903	0.29408	2.18527	2 X
K17Y36D	17.4	0.15	K20CH	245.485	196.356	282.654	12.191	0.05126	2.66972	3 V
K18A34P	16.9	0.15	K20CH	331.958	316.774	119.717	15.826	0.08449	2.54231	6 X
K18C01X	20.1	0.15	K20CH	174.036	295.891	0.894	33.965	0.39549	0.81825	3 X
K18C02G	19.1	0.15	K20CH	16.867	337.416	78.584	20.554	0.70186	2.01010	3 X
K18C06G	17.5	0.15	K20CH	331.495	312.926	135.755	3.991	0.12765	2.27320	11 X
K18C22D	17.7	0.15	K20CH	129.148	298.560	332.070	4.086	0.14328	2.63206	6 V
K18C22E	17.6	0.15	K20CH	119.967	169.859	80.580	4.792	0.07983	2.75920	5 V
K18E12Q	18.7	0.15	K20CH	340.923	273.069	181.482	4.780	0.13918	2.33965	3 V
K18F14O	17.3	0.15	K20CH	236.913	122.066	15.855	9.220	0.02497	2.95019	6 V
K18F39B	17.4	0.15	K20CH	32.133	217.576	165.078	3.832	0.18801	2.56431	6 X
K18F39X	17.8	0.15	K20CH	302.031	334.480	130.923	13.466	0.22740	2.56906	4 V
K18G07K	17.4	0.15	K20CH	351.110	343.190	106.968	7.302	0.09330	2.40533	10 X
K18L07E	16.6	0.15	K20CH	55.960	270.600	99.000	11.279	0.04452	3.03162	9 X
K18L25C	14.6	0.15	K20CH	266.885	312.679	156.361	9.315	0.04224	5.20523	6 V
K18O00E	16.8	0.15	K20CH	292.855	306.399	247.770	12.738	0.38388	2.54466	6 X
K19A06P	21.1	0.15	K20CH	173.347	325.026	327.301	7.074	0.41111	0.73968	2 X
K19C00R	13.1	0.15	K20CH	2.487	332.429	23.153	160.332	0.59431	14.47318	5 X
K19C03T	18.2	0.15	K20CH	167.792	141.590	105.412	23.597	0.07983	1.85070	6 X
K19G05B	18.5	0.15	K20CH	83.688	33.007	319.350	20.203	0.06429	1.83578	3 X
K19G05E	17.8	0.15	K20CH	59.211	20.809	341.971	19.508	0.13967	1.92206	7 X
K19G25K	16.5	0.15	K20CH	39.268	272.311	67.247	26.074	0.27539	3.09242	2 X
K19G78A	18.1	0.15	K20CH	88.024	134.700	144.208	6.262	0.15345	2.64522	3 V
K19G80N	16.5	0.15	K20CH	34.332	271.285	75.567	18.369	0.41376	3.12199	6 X
K19G85P	17.2	0.15	K20CH	50.287	274.446	15.603	13.086	0.28806	3.16018	4 V
K19G85Q	18.9	0.15	K20CH	243.763	157.550	337.521	6.316	0.02774	2.22637	6 V
K19H10J	18.2	0.15	K20CH	61.713	172.895	130.110	4.595	0.20515	2.70115	3 V
K19J00D	15.8	0.15	K20CH	69.691	245.388	38.513	26.288	0.33359	3.14078	10 X



K19J34W	17.3	0.15	K20CH	18.491	279.660	96.803	7.387	0.20900	2.48990	6 X
K19J42U	17.3	0.15	K20CH	55.119	212.523	132.986	6.188	0.26109	2.55938	5 X
K19J54X	17.8	0.15	K20CH	68.989	115.847	175.094	4.147	0.13999	2.87305	5 V
K19J62W	18.4	0.15	K20CH	330.014	12.973	88.163	24.394	0.07372	1.97124	6 X
K19J78Z	17.8	0.15	K20CH	71.928	245.821	64.105	9.424	0.13818	2.65644	4 V
K19J85C	18.4	0.15	K20CH	79.480	81.558	228.851	8.432	0.21319	2.59393	3 V
K19J85D	17.9	0.15	K20CH	331.755	216.947	169.145	6.462	0.03768	2.71036	3 V
K19K35Q	17.3	0.15	K20CH	72.668	344.028	291.187	8.317	0.05829	3.06799	2 V
K19K35R	16.9	0.15	K20CH	41.453	37.304	265.782	8.615	0.09312	3.16834	4 V
K19L21D	17.1	0.15	K20CH	72.335	84.684	244.557	13.713	0.14251	3.06940	5 V
K19M13D	17.5	0.15	K20CH	106.485	101.523	201.774	6.902	0.18219	2.53594	5 X
K19M14G	16.9	0.15	K20CH	61.989	83.146	244.049	23.991	0.27110	3.20473	4 V
K19N19D	17.3	0.15	K20CH	55.800	36.651	333.536	21.643	0.21731	3.06960	4 X
K19N53Z	17.3	0.15	K20CH	107.969	262.986	36.269	6.383	0.07357	2.98333	3 V
K19O05P	15.7	0.15	K20CH	20.161	245.652	146.564	3.792	0.24777	3.92787	7 X
K19Q22D	16.2	0.15	K20CH	98.287	342.550	344.255	27.467	0.15690	3.16096	5 X
K19Y06R	21.2	0.15	K20CH	166.591	8.152	283.015	19.087	0.51697	1.02998	2 X
K20A03D	21.5	0.15	K20CH	47.195	73.789	268.470	2.644	0.59477	0.98285	2 X
K20K05E	21.9	0.15	K20CH	40.335	22.726	311.941	5.351	0.57316	2.02465	2 X
K20M05E	20.5	0.15	K20CH	15.141	272.586	111.963	6.759	0.47375	2.19420	2 X
K20M27N	18.7	0.15	K20CH	109.824	348.960	249.188	6.372	0.14094	2.25087	5 V
K20O06J	18.7	0.15	K20CH	25.042	245.621	128.488	7.342	0.33017	2.26253	4 V
K20O64P	18.5	0.15	K20CH	64.150	303.159	336.500	4.897	0.09244	2.36348	5 V
K20O64Q	18.1	0.15	K20CH	92.051	137.853	115.905	2.652	0.19843	2.46040	8 V
K20O64R	17.7	0.15	K20CH	336.654	157.315	229.202	4.759	0.09259	2.91767	4 V
K20Q08X	17.7	0.15	K20CH	20.123	252.116	115.894	4.813	0.29996	2.64419	2 X
K20Q48X	18.0	0.15	K20CH	38.582	118.917	240.096	16.077	0.26742	2.60697	4 X
K20Q51J	18.4	0.15	K20CH	63.019	101.637	193.767	1.445	0.18121	2.41988	4 V
K20Q51K	17.0	0.15	K20CH	350.637	204.814	183.296	15.281	0.04312	3.17318	4 V
K20Q51L	17.6	0.15	K20CH	111.056	296.147	333.324	8.626	0.12650	2.56213	5 V
K20Q51M	16.9	0.15	K20CH	64.794	359.631	294.477	8.653	0.05310	3.04354	4 V
K20R26N	17.1	0.15	K20CH	30.508	290.982	56.100	13.528	0.28407	2.69810	5 X
K20R49A	17.3	0.15	K20CH	14.757	173.143	229.256	7.284	0.24905	2.57664	5 X
K20R49B	17.5	0.15	K20CH	19.024	130.909	259.542	24.901	0.36287	2.69413	3 X
K20R54Z	14.7	0.15	K20CH	287.807	7.696	83.172	10.012	0.07376	5.20887	5 V
K20R55A	17.0	0.15	K20CH	59.164	304.505	357.775	33.077	0.07641	3.23288	5 V
K20R55B	17.5	0.15	K20CH	323.996	307.771	101.964	3.269	0.05567	2.86487	6 V
K20R55C	18.6	0.15	K20CH	313.454	358.384	89.458	7.021	0.12733	2.31383	5 V
K20R55D	18.3	0.15	K20CH	53.641	211.444	103.716	4.524	0.13701	2.57547	5 V
K20R55E	18.4	0.15	K20CH	49.570	288.543	32.626	9.412	0.17125	2.73204	4 V
K20R55F	17.3	0.15	K20CH	63.360	303.986	355.633	9.046	0.11632	3.06514	4 V
K20S37P	17.8	0.15	K20CH	122.180	265.437	5.785	14.609	0.08504	2.59056	4 V
K20S37Q	19.0	0.15	K20CH	306.703	223.781	242.334	3.938	0.08988	2.24192	4 V
K20S37R	18.0	0.15	K20CH	85.368	287.376	31.313	5.369	0.05613	2.53929	4 V
K20T28G	18.4	0.15	K20CH	37.928	265.570	80.979	10.405	0.25715	2.69627	4 V
K20T28H	16.9	0.15	K20CH	101.425	9.971	274.293	10.075	0.08353	3.02550	5 V
K20T28J	17.1	0.15	K20CH	56.311	116.259	218.747	5.374	0.12541	3.17090	4 V
K20T28K	17.0	0.15	K20CH	303.309	69.251	50.133	9.918	0.10052	3.19411	6 V
K20T28L	17.8	0.15	K20CH	35.495	349.772	29.438	7.984	0.06397	2.86862	4 V
K20T28M	17.4	0.15	K20CH	59.930	118.920	218.360	7.097	0.11846	3.05923	5 V
K20U11R	18.3	0.15	K20CH	13.756	254.113	148.283	6.343	0.21511	2.64470	4 V
K20U11S	18.4	0.15	K20CH	45.757	212.376	144.332	3.593	0.24476	2.55127	4 V
K20V07H	16.7	0.15	K20CH	333.470	218.727	242.861	26.828	0.13055	3.05159	4 X
K20W06C	18.1	0.15	K20CH	116.618	60.889	251.162	20.039	0.06178	1.86711	3 X
K20X00R	19.8	0.15	K20CH	2.090	163.037	249.735	13.946	0.61168	2.49807	3 X
K20X07H	19.4	0.15	K20CH	247.472	248.224	318.993	20.239	0.05741	1.83552	2 X

New perturbed one-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Arc C
K10W28C	15.0	0.15	K20CH	21.472	31.296	256.939	15.468	0.42165	3.16738	11 V
K11B12A	22.5	0.15	K20CH	179.876	289.450	242.808	0.132	0.57482	2.47997	100 V
K11R01H	22.8	0.15	K20CH	94.941	24.713	293.657	7.035	0.22579	1.46880	15 X
K11S06G	16.8	0.15	K20CH	236.211	301.022	82.108	10.965	0.05379	3.11778	31 V
K11UN2D	18.8	0.15	K20CH	268.601	158.374	205.767	7.013	0.16168	2.25761	61 V
K11Y48Q	17.7	0.15	K20CH	307.056	354.100	103.932	5.655	0.30442	2.82183	3 V
K14H48S	17.7	0.15	K20CH	69.694	91.172	172.430	1.914	0.05744	2.92128	2 V
K14OM2J	17.6	0.15	K20CH	74.920	240.293	84.534	9.443	0.10816	2.97465	26 V
K15E77L	15.3	0.15	K20CH	153.561	220.122	6.389	5.893	0.29615	5.08864	131 X
K15Q04G	16.8	0.15	K20CH	1.005	0.998	314.687	8.758	0.04757	3.14050	31 V
K16CD5X	19.0	0.15	K20CH	342.660	208.055	308.850	26.898	0.61409	3.51530	8 V
K17D26T	18.0	0.15	K20CH	208.306	340.987	292.827	5.094	0.00758	2.56210	25 V
K20H04J	20.1	0.15	K20CH	19.606	233.248	105.216	1.222	0.57657	2.06929	262 X
K20L02A	19.8	0.15	K20CH	10.594	335.325	25.580	4.506	0.73632	4.31349	202 X
K20O02Q	19.8	0.15	K20CH	19.463	18.152	29.940	10.500	0.61740	2.11216	188 X
K20O03W	19.6	0.15	K20CH	14.801	65.190	305.003	14.665	0.57853	3.04241	168 X
K20O06S	17.7	0.15	K20CH	32.597	356.812	11.118	18.323	0.48896	2.74718	161 X
K20O07S	20.3	0.15	K20CH	8.470	224.614	158.510	3.560	0.58060	2.82237	170 X
K20O08C	20.7	0.15	K20CH	16.559	198.926	195.986	4.858	0.43812	1.91309	202 X
K20O08J	18.7	0.15	K20CH	26.969	36.317	5.479	37.134	0.51282	2.51782	157 X
K20O22D	19.8	0.15	K20CH	16.631	52.985	318.935	15.132	0.14045	1.88818	67 V
K20P00P	21.0	0.15	K20CH	291.131	216.771	308.106	14.453	0.08903	1.02772	148 X
K20P01D	19.2	0.15	K20CH	12.016	194.471	195.535	16.646	0.52513	2.71144	195 X
K20P05C	18.5	0.15	K20CH	0.520	228.645	195.885	16.985	0.54465	2.70423	142 X
K20P07K	23.2	0.15	K20CH	21.713	97.328	299.417	3.648	0.34023	1.57735	167 X
K20Q06Q	19.8	0.15	K20CH	2.300	142.106	275.935	2.926	0.52039	2.70114	143 X
K20Q09C	17.2	0.15	K20CH	28.963	310.292	42.509	15.257	0.23465	2.72380	138 X
K20Q28M	18.3	0.15	K20CH	12.552	31.731	354.473	22.911	0.34813	3.14000	116 V
K20R00U	19.2	0.15	K20CH	9.512	87.299	320.314	17.510	0.57954	3.05986	126 X
K20R06O	22.5	0.15	K20CH	359.169	310.357	130.547	1.885	0.44384	1.75757	112 X
K20S00O	28.4	0.15	K20CH	276.376	312.000	216.657	0.139	0.00181	0.98639	32 X
K20S01C	21.1	0.15	K20CH	0.986	152.975	281.660	5.050	0.46297	2.29445	111 X
K20S06Q	20.8	0.15	K20CH	4.173	212.026	215.878	3.013	0.30472	1.87955	106 X
K20S19F	16.7	0.15	K20CH	11.218	324.284	61.650	17.932	0.22414	3.11232	108 X

K20S19L	15.7	0.15	K20CH	359.633	180.189	218.823	21.788	0.62397	7.49402	155	X
K20S29W	19.0	0.15	K20CH	17.456	173.017	220.609	5.926	0.32047	2.57300	98	X
K20T05H	21.1	0.15	K20CH	323.153	326.419	175.819	4.593	0.39895	1.42507	82	X
K20T07E	23.9	0.15	K20CH	2.374	54.798	25.199	5.795	0.44008	1.74965	80	X
K20T07T	22.3	0.15	K20CH	356.239	308.069	145.171	6.852	0.32835	1.70214	81	X
K20T12B	21.7	0.15	K20CH	347.194	353.960	126.827	8.915	0.51979	2.02759	80	X
K20U01S	25.0	0.15	K20CH	17.221	301.375	110.780	2.657	0.33751	1.57306	116	X
K20U03U	21.0	0.15	K20CH	355.512	127.364	328.958	9.261	0.67543	2.96482	103	X
K20U06J	19.9	0.15	K20CH	7.015	48.347	38.046	22.691	0.40684	2.13015	82	X
K20U07D	19.6	0.15	K20CH	6.278	130.574	295.826	26.730	0.40401	2.26239	63	X
K20V04U	24.2	0.15	K20CH	5.501	29.391	38.503	3.720	0.44865	1.94971	59	X
K20V06Q	21.2	0.15	K20CH	346.463	58.230	82.871	15.250	0.59767	2.46422	48	X
K20W00G	21.7	0.15	K20CH	12.707	348.763	32.810	7.616	0.60002	2.50878	48	X
K20W01D	23.6	0.15	K20CH	326.957	339.002	144.913	3.425	0.13599	1.22341	48	X
K20W02H	20.0	0.15	K20CH	10.271	131.259	276.775	32.738	0.62895	2.80198	46	X
K20W03C	22.4	0.15	K20CH	355.534	193.112	252.969	16.829	0.19390	1.40001	43	X
K20W05A	21.5	0.15	K20CH	351.346	167.529	307.632	5.720	0.49577	2.02133	36	X
K20W05C	20.1	0.15	K20CH	325.789	58.937	94.512	34.937	0.21503	1.42410	38	X
K20W05V	20.2	0.15	K20CH	335.927	132.043	56.522	24.078	0.67559	2.33899	42	X
K20W05W	28.7	0.15	K20CH	8.099	354.171	81.252	1.534	0.08435	1.08983	34	X
K20W06D	20.2	0.15	K20CH	5.285	19.243	63.308	22.687	0.15942	1.83261	41	X
K20X00F	26.8	0.15	K20CH	157.307	211.646	71.527	4.406	0.09694	0.91386	30	X
K20X00P	21.8	0.15	K20CH	17.604	125.448	254.239	3.593	0.49839	2.00237	47	X
K20X00T	19.2	0.15	K20CH	355.481	43.916	54.118	21.167	0.36182	2.42019	41	X
K20X00V	23.8	0.15	K20CH	334.634	43.781	79.474	13.207	0.20996	1.32668	29	X
K20X01J	23.3	0.15	K20CH	48.522	314.765	61.439	7.473	0.21366	1.38346	53	X
K20X01U	22.2	0.15	K20CH	9.224	187.271	236.525	14.554	0.33584	1.94786	52	X
K20X02P	22.1	0.15	K20CH	279.706	279.988	283.055	15.823	0.28466	1.02879	27	X
K20X03M	22.7	0.15	K20CH	245.891	126.996	91.824	14.912	0.25861	1.05126	28	X
K20X04A	21.0	0.15	K20CH	348.869	353.901	126.404	16.932	0.49996	2.55332	25	X
K20X05A	24.2	0.15	K20CH	176.369	118.686	146.775	4.390	0.38366	0.82086	25	X
K20X05C	20.8	0.15	K20CH	15.273	225.810	111.315	10.032	0.76210	2.33817	22	X
K20X06E	19.9	0.15	K20CH	34.944	21.476	333.950	9.511	0.57238	2.41483	22	X
K20X06Q	22.7	0.15	K20CH	287.215	278.185	312.880	5.311	0.66218	0.96317	20	X
K20X06U	21.2	0.15	K20CH	336.025	6.145	164.494	3.880	0.55243	2.21809	20	X
K20X06V	22.7	0.15	K20CH	13.408	222.309	82.901	5.781	0.90951	2.04254	19	X
K20X07B	24.4	0.15	K20CH	348.129	0.423	124.198	6.073	0.55311	2.16136	19	X
K20X07C	20.5	0.15	K20CH	357.967	336.279	99.732	17.530	0.52161	2.58853	19	X
K20Y00D	25.0	0.15	K20CH	8.487	136.226	282.522	2.448	0.43714	1.78601	18	X
K20Y01A	26.7	0.15	K20CH	234.713	299.161	282.302	2.403	0.10855	0.94174	16	X
K20Y01L	20.4	0.15	K20CH	28.338	71.228	283.343	48.973	0.60290	1.98525	15	X
K20Y01Q	23.2	0.15	K20CH	342.782	194.441	280.037	21.576	0.20536	1.36777	15	X
K20Y01T	18.5	0.15	K20CH	343.845	104.639	54.198	28.037	0.40440	2.60317	14	V
K20Y02G	24.6	0.15	K20CH	6.993	199.827	205.040	0.718	0.63069	2.50149	14	X
K20Y03A	26.0	0.15	K20CH	7.668	315.763	90.648	1.236	0.61926	2.34325	13	X
K20Y03B	26.6	0.15	K20CH	11.457	327.439	104.112	2.609	0.12914	1.15170	13	X
K20Y03C	20.1	0.15	K20CH	327.322	78.106	133.314	15.200	0.73656	2.21802	13	X
K20Y03K	27.1	0.15	K20CH	169.135	169.238	103.255	2.563	0.22121	0.82003	12	X
K20Y03O	24.6	0.15	K20CH	11.620	295.761	91.216	9.485	0.62608	2.07048	11	X
K20Y03Q	20.2	0.15	K20CH	12.829	301.578	93.210	4.409	0.58561	1.88186	9	X
K20Y03W	25.7	0.15	K20CH	71.883	75.142	251.225	5.573	0.40668	0.96274	12	X
K20Y04L	22.4	0.15	K20CH	14.944	72.721	301.023	14.209	0.64729	2.17666	10	X
K20Y04S	27.7	0.15	K20CH	354.384	182.483	277.111	5.386	0.45395	1.80131	2	V
K20Y04T	24.2	0.15	K20CH	11.114	84.164	286.209	10.601	0.72800	2.40063	11	X
K20Y04U	23.7	0.15	K20CH	349.059	205.401	268.329	11.628	0.30740	1.73281	10	X
K20Y05A	24.1	0.15	K20CH	15.015	111.200	290.483	3.489	0.45367	1.57584	4	X
K20Y05B	25.2	0.15	K20CH	345.550	171.037	299.317	2.536	0.26802	1.34171	7	X
K20Y05E	25.7	0.15	K20CH	326.844	45.089	125.938	1.142	0.47390	1.67063	15	V
K21A00A	27.0	0.15	K20CH	38.665	235.372	100.997	24.232	0.59302	1.00526	1	V

New observations:

J97X10E	C2021	01	02.51236015	25	31.97	+47	04	04.9	21.98GVEA007G96		
J97X10E	C2021	01	02.51757915	25	28.65	+47	03	43.4	21.20GVEA007G96		
J97X10E	C2021	01	02.52279915	25	25.47	+47	03	22.9	20.66GVEA007G96		
J97X10E	C2021	01	02.52802415	25	22.33	+47	03	02.6	20.82GVEA007G96		
K01Y03V	HC2021	01	03.33720	06	28	11.98	+20	50	21.2	19.0	RoEA007691
K01Y03V	HC2021	01	03.35357	06	28	09.04	+20	50	43.9	18.8	RoEA007691
K01Y03V	HC2021	01	03.36987	06	28	06.18	+20	51	06.0	19.2	RoEA007691
K02T67S	C2021	01	02.37311606	24	39.99	+34	18	14.3	18.32oVEA007T05		
K02T67S	C2021	01	02.39652106	24	38.94	+34	18	34.5	18.50oVEA007T05		
K02T67S	C2021	01	02.40038406	24	38.82	+34	18	37.7	18.50oVEA007T05		
K02T67S	C2021	01	02.40452606	24	38.65	+34	18	40.5	18.44oVEA007T05		
K03Y00J	C2021	01	02.21598102	31	47.57	+20	03	27.1	19.01GVEA007703		
K03Y00J	C2021	01	02.22128102	31	46.70	+20	03	48.2	18.88GVEA007703		
K03Y00J	C2021	01	02.22658002	31	45.80	+20	04	09.3	19.00GVEA007703		
K03Y00J	C2021	01	02.23187902	31	45.01	+20	04	30.6	VEA007703		
K05Q10S	C2021	01	03.23211	02	26	26.356-14	42	04.55	21.1	wUEA007F51	
K05Q10S	C2021	01	03.24466	02	26	28.084-14	41	41.83	21.3	wUEA007F51	
K05Q10S	C2021	01	03.25728	02	26	29.828-14	41	18.96	21.1	wUEA007F51	
K06B00C	C2021	01	02.29997606	36	30.63	+64	32	22.1	19.15GVEA007703		
K06B00C	C2021	01	02.30555206	36	26.38	+64	32	35.5	19.27GVEA007703		
K06B00C	C2021	01	02.31640606	36	18.12	+64	33	00.0	19.98GVEA007703		
K06B00C	C2021	01	02.33122906	36	06.73	+64	33	29.3	19.43GVEA007703		
K06B00C	C2021	01	02.33661406	36	02.64	+64	33	41.9	19.31GVEA007703		
K06B00C	C2021	01	02.34199006	35	58.79	+64	33	53.3	18.84GVEA007703		
K06B00C	C2021	01	02.39559606	35	19.73	+64	35	51.4	18.41oVEA007T05		
K06B00C	C2021	01	02.39947006	35	16.68	+64	36	00.2	18.61oVEA007T05		
K06B00C	C2021	01	02.41466106	35	04.68	+64	36	32.7	18.65oVEA007T05		
K06B00C	C2021	01	02.41836106	35	02.26	+64	36	40.6	18.67oVEA007T05		
K08G03Q	KC2021	01	02.51663	14	24	00.18	+19	22	39.4	20.0	RoEA007691
K08G03Q	KC2021	01	02.53381	14	24	02.42	+19	21	45.0	20.3	RoEA007691
K08G03Q	KC2021	01	02.55105	14	24	04.70	+19	20	49.4	20.5	RoEA007691
K09C00D	^C2021	01	02.48885	11	14	25.21	+37	06	50.6	VEA007695	

K09C00D	^C2021	01	02.50303	11	14	22.99	+37	06	34.3	VEA007695
K09H82D	KC2021	01	03.20664	03	33	12.36	-03	55	13.9	20.5 RoEA007691
K09H82D	KC2021	01	03.21997	03	33	14.73	-03	54	36.6	21.0 RoEA007691
K09H82D	KC2021	01	03.23331	03	33	17.20	-03	53	59.9	20.2 RoEA007691
K10K00D	C2021	01	02.21467306	53	09.29	+56	27	59.7	20.31GVEA007G96	
K10K00D	C2021	01	02.22001106	53	08.45	+56	28	25.0	20.65GVEA007G96	
K10K00D	C2021	01	02.22534106	53	07.62	+56	28	49.7	19.91GVEA007G96	
K10K00D	C2021	01	02.23067206	53	06.78	+56	29	14.6	19.93GVEA007G96	
K10T54F	KC2016	09	30.08266604	09	46.02	+39	27	59.8	17.9 RVEA007160	
K10T54F	KC2016	09	30.08499804	09	46.02	+39	28	06.4	18.1 RVEA007160	
K10T54F	KC2016	09	30.08733104	09	45.97	+39	28	12.4	17.4 RVEA007160	
K10X58X	C2021	01	02.19420403	45	26.10	+56	30	25.1	19.62GVEA007G96	
K10X58X	C2021	01	02.19937303	45	23.36	+56	30	24.7	19.83GVEA007G96	
K10X58X	C2021	01	02.20453803	45	20.64	+56	30	24.5	19.80GVEA007G96	
K10X58X	C2021	01	02.20969203	45	17.90	+56	30	24.0	19.74GVEA007G96	
K11C50L	KC2021	01	03.16129406	44	22.93	+33	24	07.7	19.14GVEA007I52	
K11C50L	KC2021	01	03.16190306	44	22.00	+33	24	07.6	18.96GVEA007I52	
K11C50L	KC2021	01	03.16251206	44	21.09	+33	24	08.0	18.95GVEA007I52	
K11C50L	KC2021	01	03.16312106	44	20.16	+33	24	07.7	19.12GVEA007I52	
K11R01H	ZC2011	08	24.56762	23	39	12.76	+31	02	33.8	20.4 GVEA007F51
K11R01H	ZC2011	08	24.56822	23	39	12.75	+31	02	34.8	20.4 GVEA007F51
K11R01H	ZC2011	08	24.57832	23	39	12.58	+31	02	52.5	20.6 GVEA007F51
K11W02L	KC2021	01	03.32329	05	12	51.57	-17	11	56.9	20.4 RoEA007691
K11W02L	KC2021	01	03.33966	05	12	49.83	-17	11	45.1	20.6 RoEA007691
K11W02L	KC2021	01	03.35602	05	12	48.13	-17	11	33.0	20.7 RoEA007691
K12UH1K	KC2021	01	03.20338	03	12	49.53	+00	52	08.0	19.4 RoEA007691
K12UH1K	KC2021	01	03.21670	03	12	37.80	+00	51	15.7	19.2 RoEA007691
K12UH1K	KC2021	01	03.23004	03	12	26.04	+00	50	23.4	18.6 RoEA007691
K12XD3E	KC2020	12	30.94629	01	14	09.13	+20	18	56.7	18.7 GVEA007204
K12XD3E	KC2020	12	30.95029	01	14	05.02	+20	17	39.3	VEA007204
K12XD3E	KC2020	12	30.95428	01	14	00.93	+20	16	22.2	VEA007204
K12XD3E	KC2021	01	03.17483	00	34	55.96	+06	51	10.5	19.3 RoEA007691
K12XD3E	KC2021	01	03.18204	00	34	51.86	+06	49	47.4	20.7 RoEA007691
K12XD3E	KC2021	01	03.18926	00	34	47.79	+06	48	23.9	19.2 RoEA007691
K13L25H	-C2012	10	11.18790900	05	20.91	-36	42	18.5	21.3 gVEA007309	
K13L25H	-C2012	10	11.18896000	05	20.82	-36	42	19.0	21.2 gVEA007309	
K13L25H	-C2012	10	18.03837023	56	27.32	-37	28	39.8	20.9 iVEA007309	
K13L25H	-C2012	10	18.03937923	56	27.24	-37	28	40.5	VEA007309	
K13P06Y	C2021	01	03.22206	03	45	59.342	+11	22	50.40	20.2 wUEA007F52
K13P06Y	C2021	01	03.23293	03	46	00.405	+11	22	57.01	20.2 wUEA007F52
K13P06Y	C2021	01	03.24385	03	46	01.478	+11	23	03.66	20.2 wUEA007F52
K13P06Y	C2021	01	03.25478	03	46	02.540	+11	23	10.13	20.1 wUEA007F52
K13U14X	KV2021	01	01.79958	04	41	43.20	+36	55	11.7	18.1 VqEA007247
K13U14X	Kv2021	01	01.79958	1	356.1740	+56.0300				EA007247
K13U14X	KV2021	01	01.84716	04	41	43.73	+36	54	58.1	30 18.2 VqEA007247
K13U14X	Kv2021	01	01.84716	1	356.1740	+56.0300				30 EA007247
K13U14X	KV2021	01	01.89536	04	41	44.22	+36	54	44.5	18.4 VqEA007247
K13U14X	Kv2021	01	01.89536	1	356.1740	+56.0300				30 EA007247
K13U14X	C2021	01	02.34551004	41	51.05	+36	52	57.1	18.57oVEA007T05	
K13U14X	C2021	01	02.37785304	41	51.35	+36	52	48.6	18.73oVEA007T05	
K13U14X	C2021	01	02.38105404	41	51.29	+36	52	47.4	18.79oVEA007T05	
K13U14X	C2021	01	02.38656204	41	51.36	+36	52	45.7	18.66oVEA007T05	
K13U14X	KV2021	01	02.79281	04	41	58.89	+36	50	50.5	18.7 VqEA007247
K13U14X	Kv2021	01	02.79281	1	356.1740	+56.0300				30 EA007247
K13U14X	KV2021	01	02.84306	04	41	59.57	+36	50	37.8	18.7 VqEA007247
K13U14X	Kv2021	01	02.84306	1	356.1740	+56.0300				30 EA007247
K13U14X	KV2021	01	02.89414	04	42	00.14	+36	50	25.0	19.8 VqEA007247
K13U14X	Kv2021	01	02.89414	1	356.1740	+56.0300				30 EA007247
K13Y02S	KC2021	01	02.75759606	15	36.60	+02	25	21.1	18.3 GVEA007L18	
K13Y02S	KC2021	01	02.75891406	15	37.04	+02	25	13.7	18.6 GVEA007L18	
K13Y02S	KC2021	01	02.76045406	15	37.72	+02	25	04.3	18.5 GVEA007L18	
K13Y02S	KC2021	01	02.76243306	15	38.44	+02	24	52.7	18.2 GVEA007L18	
K14E48Z	^C2021	01	02.52472	14	39	27.50	-13	38	27.3	22.0 RVEA007695
K14E48Z	^C2021	01	02.53974	14	39	30.95	-13	38	29.2	21.8 RVEA007695
K14Wa5G	KC2020	12	31.02216	01	56	56.33	+60	18	10.5	19.5 GVEA007204
K14Wa5G	HC2020	12	31.02806	01	56	52.44	+60	18	19.4	VEA007204
K15035M	C2021	01	02.17512702	45	37.43	+48	34	40.0	21.03GVEA007G96	
K15035M	C2021	01	02.18058902	45	38.49	+48	34	19.5	20.43GVEA007G96	
K15035M	C2021	01	02.18603702	45	39.64	+48	33	58.1	20.87GVEA007G96	
K16B01N	KC2021	01	03.42485808	07	12.43	-11	44	41.2	VEA007I52	
K16B01N	KC2021	01	03.42654108	07	12.27	-11	44	47.7	VEA007I52	
K16B14Z	C2021	01	02.53711514	57	00.18	-03	45	57.9	20.05GVEA007G96	
K16B14Z	C2021	01	02.54276114	57	02.06	-03	45	53.6	20.45GVEA007G96	
K16B14Z	C2021	01	02.54839214	57	03.93	-03	45	48.9	20.17GVEA007G96	
K16B14Z	C2021	01	02.55403414	57	05.79	-03	45	44.4	20.05GVEA007G96	
K16CO7O	C2021	01	02.47824015	05	05.15	+31	36	21.6	17.43GVEA007703	
K16CO7O	C2021	01	02.48379815	04	53.59	+31	36	51.6	17.45GVEA007703	
K16CO7O	C2021	01	02.48936015	04	42.03	+31	37	20.7	17.52GVEA007703	
K16CO7O	C2021	01	02.49492515	04	30.48	+31	37	49.9	VEA007703	
K16CO7O	KC2021	01	02.53011615	03	16.62	+31	40	54.7	17.19GVEA007I52	
K16CO7O	KC2021	01	02.53202715	03	12.59	+31	41	04.5	17.26GVEA007I52	
K16CO7O	KC2021	01	02.53393715	03	08.56	+31	41	14.4	17.23GVEA007I52	
K16CO7O	KC2021	01	02.53450215	03	07.35	+31	41	17.4	17.31GVEA007I52	
K16CO7O	C2021	01	02.63635114	59	36.17	+31	49	49.9	17.50oVEA007T05	
K16CO7O	C2021	01	02.65472914	58	56.36	+31	51	23.6	17.34oVEA007T05	
K16CO7O	C2021	01	02.65897514	58	47.17	+31	51	45.3	17.50oVEA007T05	
K16CO7O	C2021	01	02.67004114	58	23.02	+31	52	40.9	17.09oVEA007T05	
K16CO7O	KC2021	01	03.48209314	27	08.60	+32	46	10.3	16.95GVEA007I52	
K16CO7O	KC2021	01	03.48246914	27	07.66	+32	46	11.7	16.93GVEA007I52	
K16CO7O	KC2021	01	03.48284914	27	06.69	+32	46	13.0	16.92GVEA007I52	
K16CO7O	KC2021	01	03.48323214	27	05.71	+32	46	14.3	16.94GVEA007I52	
K16J33U	KC2021	01	03.17856	01	37	08.83	+17	16	19.2	20.3 RoEA007691
K16J33U	KC2021	01	03.18577	01	37	07.96	+17	16	08.3	20.3 RoEA007691

K16J33U	KC2021	01	03.19298	01	37	07.06	+17	15	57.6	19.8	RoEA007691
K16P390	KC2021	01	02.54892914	03	00.21	+03	15	57.8	21.32	GVEA007I52	
K16P390	KC2021	01	02.55103214	03	00.61	+03	15	49.4	20.85	GVEA007I52	
K16P390	KC2021	01	02.55313514	03	01.08	+03	15	39.8	20.35	GVEA007I52	
K16Q00D	KC2016	09	30.07391704	13	02.38	+23	51	00.5	17.9	RVEA007160	
K16Q00D	KC2016	09	30.07630904	13	02.58	+23	51	05.9	17.7	RVEA007160	
K16Q00D	KC2016	09	30.07868904	13	02.79	+23	51	11.6	16.4	RVEA007160	
K16W10G	KC2020	12	31.11430	16	26	41.51	+76	23	18.1	18.6	GVEA007204
K16W10G	KC2020	12	31.12260	16	26	46.68	+76	21	26.9		VEA007204
K16W10G	KC2020	12	31.12780	16	26	50.03	+76	20	17.1		VEA007204
K16W10G	C2021	01	02.54430816	42	45.75	+65	56	06.0	18.73	GVEA007703	
K16W10G	C2021	01	02.54901916	42	46.80	+65	54	46.3			VEA007703
K16W10G	C2021	01	02.55374216	42	47.83	+65	53	26.1	18.88	GVEA007703	
K16W10G	C2021	01	02.55845916	42	48.98	+65	52	07.1	20.16	GVEA007703	
K16Y08R	KC2021	01	03.43100907	06	54.53	+71	47	42.1	21.02	GVEA007I52	
K16Y08R	KC2021	01	03.43227207	06	54.17	+71	47	39.5	20.36	GVEA007I52	
K16Y08R	KC2021	01	03.44140107	06	51.76	+71	47	21.7			VEA007I52
K17B310	KC2021	01	02.50799	14	21	04.00	+02	58	48.3	20.3	RoEA007691
K17B310	KC2021	01	02.52515	14	21	00.24	+02	59	11.5	20.0	RoEA007691
K17B310	KC2021	01	02.54236	14	20	56.42	+02	59	34.2	20.2	RoEA007691
K17B93Q	HC2020	12	31.00583	01	37	22.80	+66	29	59.3		VEA007204
K17B93Q	KC2020	12	31.00996	01	37	23.45	+66	29	12.6	18.4	GVEA007204
K17B93Q	KC2020	12	31.01343	01	37	24.03	+66	28	33.6		VEA007204
K17G060	mC2021	01	03.14498522	59	19.91	+45	36	31.7	20.92	GVEA007I52	
K17G060	mC2021	01	03.14850622	59	19.81	+45	36	37.3	20.52	GVEA007I52	
K17G060	mC2021	01	03.14927422	59	19.80	+45	36	38.6	20.91	GVEA007I52	
K17S14N	KC2021	01	03.16529100	15	23.86	+45	18	24.8	20.40	GVEA007I52	
K17S14N	KC2021	01	03.16697300	15	24.04	+45	18	22.9	20.33	GVEA007I52	
K17S14N	KC2021	01	03.17517400	15	25.29	+45	18	12.8	21.17	GVEA007I52	
K17X62L	mC2021	01	03.19735700	31	45.47	+29	12	38.7	20.70	GVEA007I52	
K17X62L	mC2021	01	03.20405100	31	47.31	+29	12	37.5	21.14	GVEA007I52	
K18C01X	KC2021	01	02.52633714	45	22.94	+35	29	06.6	21.30	GVEA007V06	
K18C01X	KC2021	01	02.53327814	45	23.86	+35	29	03.2	21.21	GVEA007V06	
K18C01X	KC2021	01	02.54928414	45	25.89	+35	28	57.0			VEA007V06
K18C02G	KC2021	01	02.50964614	31	49.91	+08	49	04.1	21.65	GVEA007V06	
K18C02G	KC2021	01	02.51409714	31	50.32	+08	49	05.2	21.10	GVEA007V06	
K19A06P	KC2021	01	02.51798	13	03	09.43	+03	29	41.7	21.0	GVEA007291
K19A06P	KC2021	01	02.52967	13	03	11.61	+03	29	22.9	21.2	GVEA007291
K19A06P	KC2021	01	02.54138	13	03	13.83	+03	29	03.8	20.8	GVEA007291
K19A06P	^C2021	01	03.44410	13	06	14.29	+03	04	24.1	21.1	GVEA007695
K19A06P	^C2021	01	03.45111	13	06	15.62	+03	04	12.5	21.2	GVEA007695
K19Y06R	KC2021	01	03.47074208	26	14.80	+11	14	18.5	21.95	GVEA007V06	
K19Y06R	KC2021	01	03.47599408	26	13.80	+11	14	15.0	21.39	GVEA007V06	
K19Y06R	KC2021	01	03.48124508	26	12.84	+11	14	12.5	21.08	GVEA007V06	
K20A03D	KC2021	01	02.44760	11	50	09.67	-04	34	46.4		oEA007691
K20A03D	KC2021	01	02.46505	11	50	02.81	-04	34	16.2	20.7	RoEA007691
K20A03D	KC2021	01	02.48247	11	49	55.89	-04	33	47.0	20.7	RoEA007691
K20H04J	KC2021	01	03.12236600	58	40.88	+04	52	26.9	21.48	GVEA007V06	
K20H04J	KC2021	01	03.13953200	58	44.89	+04	52	54.4	21.66	GVEA007V06	
K20K05E	^C2021	01	03.19380	04	49	19.99	+29	58	33.3	23.2	GVEA007695
K20K05E	^C2021	01	03.21355	04	49	19.05	+29	58	22.6	23.4	GVEA007695
K20L02A	KC2021	01	03.31791704	17	43.31	+29	00	15.6	21.76	GVEA007V06	
K20L02A	KC2021	01	03.32926404	17	43.47	+29	00	13.9	21.56	GVEA007V06	
K20L02A	KC2021	01	03.34061204	17	43.61	+29	00	11.8	20.95	GVEA007V06	
K20M05E	KC2021	01	03.30244202	57	46.37	+08	24	16.7	20.59	GVEA007I52	
K20M05E	KC2021	01	03.31835302	57	48.77	+08	24	43.3	20.49	GVEA007I52	
K20M05E	KC2021	01	03.32392202	57	49.64	+08	24	52.4	20.32	GVEA007I52	
K20002Q	KC2021	01	02.52288912	56	16.63	+11	11	35.8	21.04	GVEA007V06	
K20002Q	KC2021	01	02.52983112	56	16.82	+11	11	35.8	21.62	GVEA007V06	
K20002Q	KC2021	01	02.53677012	56	16.99	+11	11	35.8	21.13	GVEA007V06	
K20003W	KC2021	01	03.20767402	52	13.83	+37	37	12.3	21.60	GVEA007V06	
K20003W	KC2021	01	03.21300502	52	14.47	+37	37	07.3	20.71	GVEA007V06	
K20003W	KC2021	01	03.21833902	52	15.16	+37	37	02.4	21.70	GVEA007V06	
K20007S	KC2021	01	03.14763702	01	46.71	+05	00	42.0	22.32	GVEA007V06	
K20007S	KC2021	01	03.15159602	01	47.48	+05	00	47.6	21.31	GVEA007V06	
K20007S	KC2021	01	03.15555602	01	48.25	+05	00	53.3	21.47	GVEA007V06	
K20008C	KC2021	01	03.35204404	22	11.47	+03	34	53.6	19.72	GVEA007I52	
K20008C	KC2021	01	03.35323804	22	11.54	+03	34	54.8	20.05	GVEA007I52	
K20008C	KC2021	01	03.35766104	22	12.18	+03	35	00.8	20.13	GVEA007I52	
K20008J	KC2021	01	03.45291812	59	38.31	+46	10	13.1	21.38	GVEA007V06	
K20008J	KC2021	01	03.45825212	59	38.20	+46	10	14.9	21.25	GVEA007V06	
K20008J	KC2021	01	03.46358912	59	38.11	+46	10	16.8	21.15	GVEA007V06	
K20P00P	C2021	01	02.54299716	27	35.88	+55	39	36.2	19.28	GVEA007703	
K20P00P	C2021	01	02.54771016	27	36.01	+55	39	20.1	19.23	GVEA007703	
K20P00P	C2021	01	02.55242616	27	36.15	+55	39	02.6	19.09	GVEA007703	
K20P00P	C2021	01	02.55714816	27	36.55	+55	38	45.0	19.08	GVEA007703	
K20P01D	KC2021	01	03.25483	03	45	08.09	-13	55	07.5	20.4	RoEA007691
K20P01D	KC2021	01	03.28008	03	45	10.19	-13	54	40.9	20.4	RoEA007691
K20P01D	KC2021	01	03.30513	03	45	12.27	-13	54	15.8	20.2	RoEA007691
K20P05C	C2021	01	03.18992702	41	06.82	-21	50	35.2			VEA007I52
K20P05C	C2021	01	03.19119202	41	07.01	-21	50	34.7	19.82	GVEA007I52	
K20P05C	C2021	01	03.19245702	41	07.32	-21	50	33.9	19.22	GVEA007I52	
K20P07K	KC2021	01	03.22439304	24	32.33	+28	49	04.3	20.98	GVEA007V06	
K20P07K	KC2021	01	03.23061304	24	33.35	+28	48	58.3	21.04	GVEA007V06	
K20P07K	KC2021	01	03.23683204	24	34.43	+28	48	52.6	20.85	GVEA007V06	
K20Q06Q	KC2021	01	03.24443	02	22	54.91	+16	10	02.7	21.2	RoEA007691
K20Q06Q	KC2021	01	03.26972	02	22	59.61	+16	10	15.8	21.0	RoEA007691
K20Q06Q	KC2021	01	03.28897102	23	03.22	+16	10	25.7	20.91	GVEA007I52	
K20Q06Q	KC2021	01	03.29291002	23	03.93	+16	10	28.3	21.06	GVEA007I52	
K20Q06Q	KC2021	01	03.29476	02	23	04.27	+16	10	28.6	21.4	RoEA007691
K20Q06Q	KC2021	01	03.29935502	23	05.10	+16	10	30.8	21.57	GVEA007I52	
K20R00U	C2021	01	02.21564706	53	00.14	+54	18	32.1	19.46	GVEA007G96	
K20R00U	C2021	01	02.22098406	52	59.68	+54	18	22.0	19.56	GVEA007G96	

K20R00U	C2021	01	02.22631406	52	59.16	+54	18	11.5	19.19GVEA007G96
K20R00U	C2021	01	02.23164506	52	58.72	+54	18	01.2	19.59GVEA007G96
K20R00U	KC2021	01	03.41637406	51	24.18	+53	38	42.1	19.52GVEA007I52
K20R00U	KC2021	01	03.41770106	51	24.06	+53	38	39.5	19.49GVEA007I52
K20R00U	KC2021	01	03.42040906	51	23.85	+53	38	33.8	19.18GVEA007I52
K20R06O	C2021	01	03.19056101	40	23.88	-06	51	08.6	18.69GVEA007I52
K20R06O	C2021	01	03.19182601	40	24.81	-06	51	03.2	18.72GVEA007I52
K20R06O	C2021	01	03.19308901	40	25.74	-06	50	58.3	18.70GVEA007I52
K20R06O	C2021	01	03.19350801	40	26.05	-06	50	56.4	18.60GVEA007I52
K20R06O	KC2021	01	03.19965 01	40	30.62	-06	50	29.6	18.7 RoEA007691
K20R06O	KC2021	01	03.21298 01	40	40.44	-06	49	34.5	18.6 RoEA007691
K20R06O	KC2021	01	03.22631 01	40	50.28	-06	48	38.7	18.5 RoEA007691
K20S00O	KC2021	01	02.08678501	55	51.54	-00	23	35.1	19.46GVEA007I52
K20S00O	KC2021	01	02.08908901	55	51.12	-00	23	31.4	19.54GVEA007I52
K20S00O	KC2021	01	02.09139201	55	50.70	-00	23	27.5	19.48GVEA007I52
K20S00O	KC2021	01	02.09369501	55	50.28	-00	23	23.7	19.48GVEA007I52
K20S00O	C2021	01	02.23023501	56	10.773	-00	16	32.38	19.96wUEA007F51
K20S00O	C2021	01	02.24196801	56	08.129	-00	16	13.11	19.96wUEA007F51
K20S00O	C2021	01	02.25377901	56	05.494	-00	15	53.61	19.88wUEA007F51
K20S00O	C2021	01	02.26565001	56	02.910	-00	15	34.11	19.96wUEA007F51
K20S00O	KC2021	01	03.11124101	58	44.70	+00	04	40.7	19.47GVEA007I52
K20S00O	KC2021	01	03.11431001	58	44.12	+00	04	45.4	19.70GVEA007I52
K20S00O	KC2021	01	03.11738101	58	43.57	+00	04	50.6	19.64GVEA007I52
K20S01C	KC2021	01	03.14060203	52	00.74	+23	18	21.1	20.30GVEA007I52
K20S01C	KC2021	01	03.14186903	52	01.05	+23	18	19.9	20.01GVEA007I52
K20S01C	KC2021	01	03.14313103	52	01.25	+23	18	19.4	20.02GVEA007I52
K20T05H	KC2021	01	03.11963 00	36	28.15	-09	19	30.6	oEA007691
K20T05H	KC2021	01	03.13778 00	36	28.93	-09	19	25.7	20.9 RoEA007691
K20T05H	KC2021	01	03.15594 00	36	29.75	-09	19	21.0	20.9 RoEA007691
K20T07E	KC2021	01	02.49364513	39	24.63	+47	49	43.6	21.68GVEA007V06
K20T07E	KC2021	01	02.49899113	39	23.11	+47	49	32.1	21.99GVEA007V06
K20T07E	KC2021	01	02.50433613	39	21.51	+47	49	20.6	21.51GVEA007V06
K20T07T	C2021	01	03.33183 06	14	39.91	-07	05	21.7	20.2 VoEA007691
K20T07T	C2021	01	03.34988 06	14	41.15	-07	04	45.2	20.4 VoEA007691
K20T07T	C2021	01	03.36789 06	14	42.43	-07	04	08.7	20.7 VoEA007691
K20T07T	KC2021	01	03.40468906	14	45.00	-07	02	54.7	19.09GVEA007I52
K20T07T	KC2021	01	03.40906706	14	45.34	-07	02	46.2	19.52GVEA007I52
K20T07T	KC2021	01	03.40990706	14	45.41	-07	02	43.6	19.22GVEA007I52
K20T12B	KC2021	01	03.15605 02	03	42.61	-24	07	37.6	20.0 GVEA007291
K20T12B	KC2021	01	03.16010 02	03	42.34	-24	07	34.5	20.6 GVEA007291
K20T12B	KC2021	01	03.16415 02	03	42.12	-24	07	31.2	20.4 GVEA007291
K20U01S	KC2021	01	03.35246907	25	13.37	+19	51	06.3	22.58GVEA007V06
K20U01S	KC2021	01	03.35958307	25	13.14	+19	51	14.2	22.44GVEA007V06
K20U01S	KC2021	01	03.36671107	25	12.96	+19	51	22.0	22.27GVEA007V06
K20U03U	KC2021	01	03.09549423	07	08.11	+26	22	15.4	20.44GVEA007I52
K20U03U	KC2021	01	03.09949823	07	08.65	+26	22	22.3	21.04GVEA007I52
K20U03U	KC2021	01	03.10350123	07	09.16	+26	22	29.0	20.76GVEA007I52
K20U06J	KC2021	01	02.53686412	52	49.01	+55	47	20.8	21.72GVEA007I52
K20U06J	KC2021	01	02.54022812	52	49.33	+55	47	21.3	VEA007I52
K20U06J	KC2021	01	02.54464612	52	49.94	+55	47	22.8	VEA007I52
K20V04U	KC2021	01	03.32356906	03	29.31	+46	54	01.7	21.02GVEA007V06
K20V04U	KC2021	01	03.33491506	03	31.98	+46	53	50.9	21.14GVEA007V06
K20V04U	KC2021	01	03.34628406	03	34.66	+46	53	39.3	21.07GVEA007V06
K20V06Q	C2021	01	02.19605303	44	33.62	+48	13	59.0	19.02GVEA007G96
K20V06Q	C2021	01	02.20638503	44	29.78	+48	15	15.0	19.10GVEA007G96
K20V06Q	C2021	01	02.21154303	44	27.86	+48	15	53.0	19.39GVEA007G96
K20W00G	KC2021	01	03.29800503	35	45.87	+39	57	10.5	21.86GVEA007V06
K20W00G	KC2021	01	03.30467303	35	47.30	+39	57	09.4	21.78GVEA007V06
K20W00G	KC2021	01	03.31134503	35	48.60	+39	57	07.8	22.42GVEA007V06
K20W01D	KC2021	01	03.26252 03	30	13.72	-01	02	12.5	21.0 GVEA007291
K20W01D	KC2021	01	03.27551 03	30	14.10	-01	01	53.8	21.3 GVEA007291
K20W01D	KC2021	01	03.28852 03	30	14.50	-01	01	35.2	21.1 GVEA007291
K20W02H	KC2021	01	03.39063 08	27	40.68	-10	46	23.2	19.9 RoEA007691
K20W02H	KC2021	01	03.40417 08	27	37.90	-10	47	02.0	19.9 RoEA007691
K20W02H	KC2021	01	03.45492308	27	27.50	-10	49	28.1	19.20GVEA007I52
K20W02H	KC2021	01	03.46018008	27	26.46	-10	49	42.7	19.52GVEA007I52
K20W02H	KC2021	01	03.46495508	27	25.50	-10	49	56.3	19.92GVEA007I52
K20W03C	KC2021	01	03.21048503	38	44.62	-10	59	35.4	21.04GVEA007I52
K20W03C	KC2021	01	03.23873603	38	48.04	-11	00	36.7	20.60GVEA007I52
K20W03C	KC2021	01	03.24294203	38	48.62	-11	00	45.0	21.78GVEA007I52
K20W05A	KC2020	12	31.05329 11	04	35.26	+43	35	34.0	18.2 GVEA007204
K20W05A	HC2020	12	31.05793 11	04	37.86	+43	34	52.1	VEA007204
K20W05A	KC2020	12	31.06256 11	04	40.43	+43	34	10.3	VEA007204
K20W05C	C2021	01	02.36443912	07	45.16	+49	08	09.6	19.58GVEA007G96
K20W05C	C2021	01	02.36976212	07	47.98	+49	08	34.7	19.63GVEA007G96
K20W05C	C2021	01	02.37507012	07	50.77	+49	08	59.8	19.66GVEA007G96
K20W05C	C2021	01	02.38039212	07	53.59	+49	09	24.9	19.63GVEA007G96
K20W05V	mC2021	01	03.32699003	05	54.13	+69	49	03.8	VEA007I52
K20W05V	mC2021	01	03.32775803	05	52.82	+69	49	06.3	20.84GVEA007I52
K20W05V	mC2021	01	03.32852603	05	52.07	+69	49	07.7	20.26GVEA007I52
K20W05V	mC2021	01	03.32929303	05	51.38	+69	49	08.7	20.09GVEA007I52
K20X00F	^C2021	01	03.27114 00	56	42.17	+50	00	07.4	22.8 RVEA007695
K20X00F	^C2021	01	03.29457 00	56	43.45	+49	59	57.8	23.5 RVEA007695
K20X00P	KC2021	01	03.22864 03	17	03.36	+15	20	33.6	21.8 GVEA007291
K20X00P	KC2021	01	03.23867 03	17	05.49	+15	20	38.5	21.9 GVEA007291
K20X00P	KC2021	01	03.24872 03	17	07.62	+15	20	43.3	21.6 GVEA007291
K20X00P	KC2021	01	03.27265703	17	12.67	+15	20	54.0	VEA007V06
K20X00P	KC2021	01	03.27710703	17	13.66	+15	20	56.1	21.85GVEA007V06
K20X00P	KC2021	01	03.28154903	17	14.61	+15	20	59.0	22.37GVEA007V06
K20X00R	HC2020	12	30.82922 00	33	07.52	-05	29	18.6	VEA007204
K20X00R	KC2020	12	30.84659 00	33	15.72	-05	29	28.2	20.1 GVEA007204
K20X00R	KC2021	01	03.16988 00	59	55.67	-05	58	04.4	20.0 GVEA007291
K20X00R	KC2021	01	03.17284 00	59	57.07	-05	58	05.5	20.0 GVEA007291

K20X00R	KC2021	01	03.17580	00	59	58.49	-05	58	07.2	20.0	GVEA007291
K20X00V	KC2021	01	03.34470203		57	27.75	+68	45	46.0	20.45	GVEA007I52
K20X00V	KC2021	01	03.34722503		57	26.88	+68	45	58.5	20.86	GVEA007I52
K20X00V	KC2021	01	03.34974903		57	25.87	+68	46	11.1	20.13	GVEA007I52
K20X00V	KC2021	01	03.35207	03	57	25.13	+68	46	23.5	21.1	GVEA007291
K20X00V	KC2021	01	03.35676	03	57	23.48	+68	46	46.2	21.1	GVEA007291
K20X00V	KC2021	01	03.36146	03	57	21.85	+68	47	08.7	21.1	GVEA007291
K20X01J	^C2021	01	03.32059	05	34	08.76	+41	30	02.1	22.4	GVEA007695
K20X01J	^C2021	01	03.32790	05	34	08.23	+41	30	02.9	22.1	GVEA007695
K20X01J	^C2021	01	03.33521	05	34	07.71	+41	30	03.6	21.8	GVEA007695
K20X02P	KC2021	01	02.55474712		38	17.30	-16	32	20.7	18.66	GVEA007I52
K20X02P	KC2021	01	02.55531612		38	17.78	-16	32	34.4	18.71	GVEA007I52
K20X02P	KC2021	01	02.55588112		38	18.24	-16	32	47.6	18.65	GVEA007I52
K20X02P	KC2021	01	02.55644612		38	18.73	-16	33	00.8	18.84	GVEA007I52
K20X02P	KC2021	01	03.48419912		52	37.87	-22	32	11.0	20.38	GVEA007I52
K20X02P	KC2021	01	03.48469212		52	38.29	-22	32	23.5	19.66	GVEA007I52
K20X02P	KC2021	01	03.48518512		52	38.74	-22	32	35.5	19.34	GVEA007I52
K20X02P	KC2021	01	03.48568112		52	39.19	-22	32	46.5	19.50	GVEA007I52
K20X03M	KC2021	01	03.28559603		17	24.39	+20	22	10.8	21.21	GVEA007V06
K20X03M	KC2021	01	03.28914903		17	23.56	+20	22	19.7	21.92	GVEA007V06
K20X03M	KC2021	01	03.29270303		17	22.71	+20	22	28.0	21.75	GVEA007V06
K20X04A	KC2021	01	03.27475705		33	59.22	-06	29	18.8	20.53	GVEA007I52
K20X04A	KC2021	01	03.27686205		33	59.20	-06	29	14.3	21.22	GVEA007I52
K20X05A	^C2021	01	03.09621	03	40	55.90	+00	28	18.3	22.3	GVEA007695
K20X05A	^C2021	01	03.10422	03	40	54.24	+00	28	28.0	22.3	GVEA007695
K20X05A	^C2021	01	03.11224	03	40	52.59	+00	28	37.3	22.0	GVEA007695
K20X05C	KC2021	01	03.33236303		50	13.91	+08	37	31.5	20.11	GVEA007I52
K20X05C	KC2021	01	03.33656703		50	14.35	+08	37	41.2	20.21	GVEA007I52
K20X05C	KC2021	01	03.34077203		50	14.82	+08	37	51.2	20.40	GVEA007I52
K20X06E	KC2021	01	03.18751507		03	08.98	+37	36	26.7	22.15	GVEA007V06
K20X06E	KC2021	01	03.19418207		03	08.20	+37	36	24.6	21.35	GVEA007V06
K20X06E	KC2021	01	03.20084507		03	07.43	+37	36	22.8	21.00	GVEA007V06
K20X06Q	mC2021	01	03.15802700		03	58.41	+35	00	04.9	21.44	GVEA007I52
K20X06Q	mC2021	01	03.15879500		03	57.27	+34	59	52.9	20.44	GVEA007I52
K20X06Q	mC2021	01	03.15956300		03	56.29	+34	59	39.8	VEA007I52	
K20X06U	KC2021	01	03.37359	07	20	43.03	+07	01	38.0	19.1	RoEA007691
K20X06U	KC2021	01	03.38710	07	20	42.97	+07	01	28.0	19.2	RoEA007691
K20X06U	KC2021	01	03.40065	07	20	42.92	+07	01	18.0	19.3	RoEA007691
K20X06U	C2021	01	03.42945607		20	42.80	+07	00	56.3	19.45	GVEA007I52
K20X06U	C2021	01	03.45072907		20	42.78	+07	00	40.2	VEA007I52	
K20X06U	C2021	01	03.45599207		20	42.77	+07	00	36.2	19.26	GVEA007I52
K20X06V	^C2021	01	03.12375	03	35	16.68	+21	11	29.1	22.0	GVEA007695
K20X06V	^C2021	01	03.13106	03	35	17.25	+21	11	32.1	21.8	GVEA007695
K20X06V	^C2021	01	03.13838	03	35	17.85	+21	11	35.2	21.9	GVEA007695
K20X07B	KC2021	01	03.18613	02	14	04.37	-18	26	31.7	22.2	GVEA007291
K20X07B	KC2021	01	03.19883	02	14	02.29	-18	26	42.6	22.1	GVEA007291
K20X07B	KC2021	01	03.21154	02	14	00.18	-18	26	54.1	22.3	GVEA007291
K20X07C	C2021	01	02.22388902		40	38.002	+00	42	13.03	20.63	wUEA007F52
K20X07C	C2021	01	02.23627702		40	39.337	+00	42	57.30	21.05	wUEA007F52
K20X07C	C2021	01	02.26101202		40	41.983	+00	44	25.11	20.73	wUEA007F52
K20X07C	KC2021	01	03.19897202		42	30.12	+01	39	49.0	20.26	GVEA007I52
K20X07C	KC2021	01	03.20566102		42	30.85	+01	40	13.5	20.19	GVEA007I52
K20X07C	KC2021	01	03.20734202		42	31.09	+01	40	18.5	20.54	GVEA007I52
K20Y00D	^C2021	01	03.23237	05	25	12.64	+23	59	00.0	VEA007695	
K20Y00D	^C2021	01	03.23574	05	25	13.91	+23	58	55.8	VEA007695	
K20Y00D	^C2021	01	03.24113	05	25	15.86	+23	58	49.4	21.2	GVEA007695
K20Y01A	KC2021	01	02.47894913		10	34.03	-08	57	58.7	20.23	GVEA007I52
K20Y01A	KC2021	01	02.48271613		10	40.75	-08	59	45.0	20.03	GVEA007I52
K20Y01A	KC2021	01	02.48460013		10	44.14	-09	00	37.6	18.61	GVEA007I52
K20Y01L	.C2021	01	02.26047	06	38	19.70	+32	31	26.5	20.5	GVEA007F65
K20Y01L	.C2021	01	02.26274	06	38	19.02	+32	31	17.3	20.4	GVEA007F65
K20Y01L	.C2021	01	02.26349	06	38	18.81	+32	31	14.0	20.3	GVEA007F65
K20Y01L	KC2021	01	03.36710	06	33	02.56	+31	16	15.2	20.3	GVEA007291
K20Y01L	KC2021	01	03.37158	06	33	01.30	+31	15	57.6	20.4	GVEA007291
K20Y01L	KC2021	01	03.41860806		32	48.08	+31	12	46.4	20.07	GVEA007I52
K20Y01L	KC2021	01	03.42171806		32	47.23	+31	12	33.6	19.84	GVEA007I52
K20Y01L	KC2021	01	03.42297906		32	46.85	+31	12	28.7	20.31	GVEA007I52
K20Y01Q	KC2021	01	03.17765607		36	48.17	+06	18	35.6	19.75	GVEA007I52
K20Y01Q	KC2021	01	03.17864407		36	47.93	+06	18	23.8	19.63	GVEA007I52
K20Y01Q	KC2021	01	03.17962807		36	47.75	+06	18	12.6	19.31	GVEA007I52
K20Y01Q	KC2021	01	03.18061307		36	47.53	+06	18	00.4	20.08	GVEA007I52
K20Y02G	^C2021	01	03.24736	05	57	19.57	+17	45	06.1	21.4	GVEA007695
K20Y02G	^C2021	01	03.25004	05	57	20.34	+17	45	08.2	21.5	GVEA007695
K20Y03A	^C2021	01	03.34626	08	21	02.14	+22	32	17.1	21.8	GVEA007695
K20Y03A	^C2021	01	03.35724	08	21	00.86	+22	32	22.0	22.4	GVEA007695
K20Y03A	^C2021	01	03.36824	08	20	59.57	+22	32	26.7	22.5	GVEA007695
K20Y03B	^C2021	01	03.42682	09	09	29.88	+16	38	33.9	20.9	GVEA007695
K20Y03B	^C2021	01	03.43029	09	09	29.89	+16	38	46.2	21.3	GVEA007695
K20Y03B	^C2021	01	03.43376	09	09	29.90	+16	38	58.5	21.1	GVEA007695
K20Y03C	KC2021	01	03.35954805		21	45.11	-01	14	45.5	20.53	GVEA007I52
K20Y03C	KC2021	01	03.36581205		21	44.04	-01	14	45.1	VEA007I52	
K20Y03C	KC2021	01	03.37207505		21	42.78	-01	14	45.4	VEA007I52	
K20Y03K	^C2021	01	03.06943	02	03	15.58	+09	26	21.0	22.3	GVEA007695
K20Y03K	^C2021	01	03.08088	02	03	11.34	+09	26	48.7	22.6	GVEA007695
K20Y03O	KC2021	01	03.37939	06	41	14.23	+41	40	39.6	VEA007291	
K20Y03O	KC2021	01	03.39705	06	41	15.76	+41	40	37.2	VEA007291	
K20Y03O	KC2021	01	03.40688	06	41	16.60	+41	40	34.9	21.2	GVEA007291
K20Y03Q	KC2020	12	31.07934	11	19	37.65	+13	41	31.1	VEA007204	
K20Y03Q	KC2020	12	31.08286	11	19	35.48	+13	41	50.7	VEA007204	
K20Y03Q	KC2020	12	31.08638	11	19	33.30	+13	42	10.3	17.2	GVEA007204
K20Y03W	^C2021	01	03.15358	04	39	09.58	+02	56	26.2	23.3	GVEA007695
K20Y03W	^C2021	01	03.16820	04	39	09.60	+02	56	50.4	22.8	GVEA007695
K20Y04L	KC2021	01	03.40687806		36	11.57	+46	07	54.9	21.36	GVEA007I52

K20Y04L	KC2021	01	03.41209106	36	10.88	+46	07	27.3	20.57GVEA007I52	
K20Y04L	KC2021	01	03.41461406	36	10.45	+46	07	13.7	20.88GVEA007I52	
K20Y04T	KC2021	01	03.26282607	13	45.85	+25	36	51.1	20.12GVEA007I52	
K20Y04T	KC2021	01	03.26703107	13	44.63	+25	36	36.5	21.14GVEA007I52	
K20Y04T	KC2021	01	03.27123707	13	43.44	+25	36	23.6	21.60GVEA007I52	
K20Y04U	KC2021	01	03.40993508	02	36.95	+01	13	46.5	20.82GVEA007V06	
K20Y04U	KC2021	01	03.41794508	02	36.76	+01	13	20.8	21.90GVEA007V06	
K20Y04U	KC2021	01	03.42595008	02	36.59	+01	12	54.5	22.21GVEA007V06	
K20Y05A	KC2020	12	30.97438	09	00	25.87	+36	18	14.4	VEA007204
K20Y05A	KC2020	12	30.98044	09	00	19.26	+36	16	50.6	VEA007204
K20Y05A	KC2020	12	30.98624	09	00	12.94	+36	15	30.4	18.4 GVEA007204
K20Y05B	KC2021	01	02.48828	13	33	06.40	+23	18	15.6	19.8 RoEA007291
K20Y05B	KC2021	01	02.49471	13	33	06.03	+23	16	27.5	20.3 RoEA007291
K20Y05B	KC2021	01	02.50108	13	33	05.63	+23	14	39.9	20.1 RoEA007291
01580	C2021	01	02.30738203	19	48.86	+35	13	10.6	18.95oVEA007T05	
01580	C2021	01	02.31060003	19	48.59	+35	13	11.4	18.76oVEA007T05	
01580	C2021	01	02.31748203	19	48.08	+35	13	11.2	18.90oVEA007T05	
01580	C2021	01	02.32757603	19	47.19	+35	13	12.0	18.82oVEA007T05	
02329	C2021	01	02.53896814	46	45.13	-05	48	14.1	19.03GVEA007G96	
02329	C2021	01	02.54461114	46	45.87	-05	48	14.7	19.03GVEA007G96	
02329	C2021	01	02.55024314	46	46.59	-05	48	15.4	18.90GVEA007G96	
02329	C2021	01	02.55588514	46	47.33	-05	48	16.0	18.97GVEA007G96	
04197	C2021	01	02.06483922	24	22.24	-11	56	31.3	19.16GVEA007G96	
04197	C2021	01	02.06911722	24	22.56	-11	56	28.4	19.38GVEA007G96	
04197	C2021	01	02.07340522	24	22.89	-11	56	25.8	19.53GVEA007G96	
04197	C2021	01	02.07768222	24	23.18	-11	56	23.2	19.63GVEA007G96	
04688	C2021	01	02.22568	01	14	13.273+00	52	33.64	19.8 wUEA007F51	
04688	C2021	01	02.23743	01	14	15.709+00	52	34.02	19.7 wUEA007F51	
04688	C2021	01	02.24923	01	14	18.144+00	52	34.38	19.8 wUEA007F51	
04688	C2021	01	02.26114	01	14	20.615+00	52	34.78	19.8 wUEA007F51	
06053	C2021	01	02.08550822	48	05.99	+27	05	01.9	16.50GVEA007703	
06053	C2021	01	02.09073622	48	07.59	+27	05	11.6	16.27GVEA007703	
06053	C2021	01	02.09596822	48	09.14	+27	05	21.7	16.29GVEA007703	
06053	C2021	01	02.10119822	48	10.72	+27	05	32.0	16.21GVEA007703	
07822	C2021	01	02.53942514	45	45.53	-03	51	01.8	19.69GVEA007G96	
07822	C2021	01	02.54506814	45	46.61	-03	50	58.1	19.48GVEA007G96	
07822	C2021	01	02.55070114	45	47.71	-03	50	54.0	19.73GVEA007G96	
07822	C2021	01	02.55634314	45	48.82	-03	50	50.4	19.59GVEA007G96	
15817	C2021	01	03.22222	01	57	29.881-11	12	33.12	20.5 wUEA007F51	
15817	C2021	01	03.24731	01	57	31.770-11	12	05.60	20.4 wUEA007F51	
15817	C2021	01	03.25995	01	57	32.718-11	11	51.75	20.4 wUEA007F51	
21374	C2021	01	02.44475007	56	38.35	+71	01	00.2	17.94oVEA007T05	
21374	C2021	01	02.44659007	56	37.94	+71	01	04.0	17.93oVEA007T05	
21374	C2021	01	02.44936007	56	37.31	+71	01	08.7	17.71oVEA007T05	
21374	C2021	01	02.45766107	56	35.24	+71	01	26.4	17.94oVEA007T05	
23183	KC2021	01	02.79853	13	15	50.48	+23	06	05.4	19.3 VqEA007Q21
23183	KC2021	01	02.80641	13	15	51.53	+23	06	20.2	20.0 VqEA007Q21
40263	KC2019	02	18.95761908	52	43.71	-13	24	52.3	18.2 GVEA007C95	
53435	C2021	01	02.47660008	34	39.41	+56	18	35.5	14.95oVEA007T05	
53435	C2021	01	02.47995008	34	39.09	+56	18	37.8	14.95oVEA007T05	
53435	C2021	01	02.48269408	34	38.82	+56	18	39.5	14.96oVEA007T05	
53435	C2021	01	02.48773108	34	38.32	+56	18	42.8	14.93oVEA007T05	
65674	KC2016	09	30.06132203	45	51.90	+32	24	18.5	17.3 RVEA007160	
65674	KC2016	09	30.06328603	45	51.78	+32	24	21.3	17.0 RVEA007160	
65674	KC2016	09	30.06526003	45	51.66	+32	24	24.0	17.3 RVEA007160	
66272	C2021	01	02.10812700	59	11.79	+52	58	30.8	18.03GVEA007G96	
66272	C2021	01	02.11411100	59	10.50	+52	58	34.5	18.00GVEA007G96	
66272	C2021	01	02.12005100	59	09.23	+52	58	38.1	17.99GVEA007G96	
66272	C2021	01	02.12599400	59	07.93	+52	58	41.5	18.06GVEA007G96	
66272	C2021	01	02.24776400	58	42.87	+53	00	00.3	17.92oVEA007T05	
66272	C2021	01	02.25788900	58	40.73	+53	00	06.1	17.93oVEA007T05	
66272	C2021	01	02.26981300	58	38.19	+53	00	13.4	17.79oVEA007T05	
68359	C2021	01	02.21943	02	18	51.120+05	09	02.87	18.9 wUEA007F52	
68359	C2021	01	02.23182	02	18	51.670+05	09	20.70	18.9 wUEA007F52	
68359	C2021	01	02.24419	02	18	52.215+05	09	38.53	18.9 wUEA007F52	
68359	C2021	01	02.25653	02	18	52.771+05	09	56.46	18.9 wUEA007F52	
88188	C2021	01	02.21656306	44	19.01	+49	12	49.4	16.88GVEA007G96	
88188	C2021	01	02.22189906	44	18.37	+49	12	49.7	16.89GVEA007G96	
88188	C2021	01	02.22722806	44	17.73	+49	12	50.0	16.92GVEA007G96	
88188	C2021	01	02.23256006	44	17.08	+49	12	50.2	16.88GVEA007G96	
88188	C2021	01	02.40730106	43	56.98	+49	12	56.3	16.56oVEA007T05	
88188	C2021	01	02.40913006	43	56.76	+49	12	56.3	16.50oVEA007T05	
88188	C2021	01	02.41191606	43	56.42	+49	12	56.4	16.55oVEA007T05	
88188	C2021	01	02.41790406	43	55.68	+49	12	56.6	16.71oVEA007T05	
88188	C2021	01	03.07922	06	42	41.36	+49	12	44.4	16.3 RSEA007726
88188	C2021	01	03.12087	06	42	36.32	+49	12	43.7	15.7 RSEA007726
88188	C2021	01	03.12551	06	42	35.84	+49	12	44.1	15.6 RSEA007726
88188	C2021	01	03.12970	06	42	35.33	+49	12	44.8	15.4 RSEA007726
90147	C2021	01	02.34762406	02	28.10	+31	54	49.8	15.91oVEA007T05	
90147	C2021	01	02.35045206	02	27.63	+31	54	26.8	15.82oVEA007T05	
90147	C2021	01	02.35328606	02	27.17	+31	54	03.5	15.91oVEA007T05	
90147	1C2021	01	02.68936	06	01	39.19	+31	07	51.8	16.0 GVEA007C40
90147	1C2021	01	02.69150	06	01	38.88	+31	07	34.6	16.0 GVEA007C40
90147	1C2021	01	02.69579	06	01	38.23	+31	07	00.2	16.1 GVEA007C40
90147	1C2021	01	02.69685	06	01	38.06	+31	06	51.8	16.0 GVEA007C40
90147	1C2021	01	02.69793	06	01	37.91	+31	06	43.1	15.9 GVEA007C40
90147	1C2021	01	02.69899	06	01	37.75	+31	06	34.4	16.1 GVEA007C40
90147	1C2021	01	02.70007	06	01	37.58	+31	06	25.8	16.0 GVEA007C40
90147	1C2021	01	02.70113	06	01	37.43	+31	06	17.3	16.0 GVEA007C40
90147	1C2021	01	02.70221	06	01	37.26	+31	06	08.7	16.0 GVEA007C40
90147	1C2021	01	02.70328	06	01	37.10	+31	06	00.2	15.9 GVEA007C40
90147	1C2021	01	02.70542	06	01	36.77	+31	05	42.8	16.0 GVEA007C40
90147	1C2021	01	02.70649	06	01	36.61	+31	05	34.2	16.2 GVEA007C40

90147	1C2021	01	02.70756	06	01	36.45	+31	05	25.6	16.2	GVEA007C40
90147	1C2021	01	02.70863	06	01	36.29	+31	05	17.2	16.2	GVEA007C40
90147	1C2021	01	02.71078	06	01	35.96	+31	04	59.8	16.1	GVEA007C40
90147	1C2021	01	02.71292	06	01	35.64	+31	04	42.6	16.1	GVEA007C40
90147	1C2021	01	02.71506	06	01	35.32	+31	04	25.4	16.2	GVEA007C40
90147	1C2021	01	02.71720	06	01	34.99	+31	04	08.3	16.3	GVEA007C40
90147	1C2021	01	02.72041	06	01	34.50	+31	03	42.4	15.9	GVEA007C40
90147	C2021	01	02.73620806	01	32.28	+31	01	31.0		15.0	GVEA007L18
90147	C2021	01	02.73641406	01	32.21	+31	01	29.6		15.7	GVEA007L18
90147	C2021	01	02.73662306	01	32.22	+31	01	27.6		15.0	GVEA007L18
90147	C2021	01	02.73683106	01	32.23	+31	01	25.3		16.1	GVEA007L18
90147	C2021	01	02.73703906	01	32.20	+31	01	23.9		15.8	GVEA007L18
90147	C2021	01	02.73724806	01	32.18	+31	01	22.0		15.7	GVEA007L18
90147	C2021	01	02.73745606	01	32.10	+31	01	20.6		16.0	GVEA007L18
90147	C2021	01	02.73766406	01	32.08	+31	01	18.4		16.0	GVEA007L18
90147	1C2021	01	02.73793	06	01	31.84	+31	01	21.7	16.2	GVEA007C40
90147	C2021	01	02.73808106	01	32.00	+31	01	15.5		15.0	GVEA007L18
90147	1C2021	01	02.74542	06	01	30.68	+31	00	21.6	16.3	GVEA007C40
90147	1C2021	01	02.74756	06	01	30.36	+31	00	04.3	16.2	GVEA007C40
90147	1C2021	01	02.74863	06	01	30.18	+30	59	55.7	16.1	GVEA007C40
90147	1C2021	01	02.74970	06	01	30.03	+30	59	47.0	16.2	GVEA007C40
90147	1C2021	01	02.75078	06	01	29.86	+30	59	38.5	16.2	GVEA007C40
90147	1C2021	01	02.75184	06	01	29.70	+30	59	29.9	16.3	GVEA007C40
90147	1C2021	01	02.75506	06	01	29.21	+30	59	04.0	16.2	GVEA007C40
90147	1C2021	01	02.75612	06	01	29.04	+30	58	55.5	16.3	GVEA007C40
90147	1C2021	01	02.75934	06	01	28.54	+30	58	29.7	16.0	GVEA007C40
90147	1C2021	01	02.76041	06	01	28.38	+30	58	21.1	16.0	GVEA007C40
90147	1C2021	01	02.76148	06	01	28.21	+30	58	12.4	16.1	GVEA007C40
90147	1C2021	01	02.76255	06	01	28.04	+30	58	03.8	16.2	GVEA007C40
90147	1C2021	01	02.76362	06	01	27.89	+30	57	55.2	16.3	GVEA007C40
90147	1C2021	01	02.76469	06	01	27.71	+30	57	46.6	16.2	GVEA007C40
90147	1C2021	01	02.76576	06	01	27.56	+30	57	38.0	16.3	GVEA007C40
90147	1C2021	01	02.76791	06	01	27.22	+30	57	20.8	16.2	GVEA007C40
90147	1C2021	01	02.77116	06	01	26.72	+30	56	54.6	16.3	GVEA007C40
90147	1C2021	01	02.77223	06	01	26.55	+30	56	45.9	16.2	GVEA007C40
90147	1C2021	01	02.77330	06	01	26.38	+30	56	37.3	16.2	GVEA007C40
90147	1C2021	01	02.77544	06	01	26.05	+30	56	20.0	16.2	GVEA007C40
90147	1C2021	01	02.77652	06	01	25.88	+30	56	11.5	16.2	GVEA007C40
90147	1C2021	01	02.77758	06	01	25.72	+30	56	02.9	16.2	GVEA007C40
90147	1C2021	01	02.77896	06	01	25.51	+30	55	51.9	16.2	GVEA007C40
90147	1C2021	01	02.78110	06	01	25.18	+30	55	34.6	16.2	GVEA007C40
90147	1C2021	01	02.78752	06	01	24.18	+30	54	42.9	16.2	GVEA007C40
99942	KC2021	01	02.55142	11	41	04.28	-14	22	44.2	17.7	RVEA007H06
99942	KC2021	01	02.55367	11	41	04.34	-14	22	46.3	17.2	RVEA007H06
99942	KC2021	01	02.55591	11	41	04.39	-14	22	48.4	17.8	RVEA007H06
D7805	C2021	01	02.08636722	52	04.65	+18	44	45.6		18.55	GVEA007703
D7805	C2021	01	02.09159822	52	06.20	+18	44	57.9		18.47	GVEA007703
D7805	C2021	01	02.09682922	52	07.93	+18	45	08.2		18.54	GVEA007703
D7805	C2021	01	02.10205822	52	09.54	+18	45	18.9		18.80	GVEA007703
F3195	C2021	01	02.45000813	53	04.59	+47	08	34.3		20.92	GVEA007G96
F3195	C2021	01	02.45532813	53	05.20	+47	08	37.4		21.18	GVEA007G96
F3195	C2021	01	02.46063413	53	05.82	+47	08	40.1		20.71	GVEA007G96
F3195	C2021	01	02.46595013	53	06.44	+47	08	43.2		20.62	GVEA007G96
F9402	C2021	01	02.44291608	39	55.26	+49	31	33.7		15.27	GVEA007T05
F9402	C2021	01	02.44842508	39	54.36	+49	31	26.4		15.34	GVEA007T05
F9402	C2021	01	02.45302708	39	53.64	+49	31	20.0		15.37	GVEA007T05
F9402	C2021	01	02.46412008	39	51.84	+49	31	05.1		15.38	GVEA007T05
F9402	1C2021	01	02.79793	08	39	04.53	+49	22	59.2	15.6	GVEA007C40
F9402	1C2021	01	02.79899	08	39	04.37	+49	22	57.9	15.6	GVEA007C40
F9402	1C2021	01	02.80113	08	39	04.04	+49	22	54.9	15.7	GVEA007C40
F9402	1C2021	01	02.80221	08	39	03.88	+49	22	53.5	15.6	GVEA007C40
F9402	1C2021	01	02.80328	08	39	03.72	+49	22	52.2	15.5	GVEA007C40
F9402	1C2021	01	02.80435	08	39	03.55	+49	22	50.7	15.6	GVEA007C40
F9402	1C2021	01	02.80542	08	39	03.38	+49	22	49.3	15.6	GVEA007C40
F9402	1C2021	01	02.80756	08	39	03.07	+49	22	46.4	15.6	GVEA007C40
F9402	1C2021	01	02.80863	08	39	02.91	+49	22	45.1	15.5	GVEA007C40
F9402	1C2021	01	02.81078	08	39	02.59	+49	22	42.3	15.5	GVEA007C40
F9402	1C2021	01	02.81184	08	39	02.42	+49	22	40.9	15.6	GVEA007C40
F9402	1C2021	01	02.81292	08	39	02.26	+49	22	39.4	15.6	GVEA007C40
F9402	1C2021	01	02.81398	08	39	02.09	+49	22	37.9	15.6	GVEA007C40
F9402	1C2021	01	02.81506	08	39	01.93	+49	22	36.5	15.5	GVEA007C40
F9402	1C2021	01	02.81612	08	39	01.77	+49	22	35.0	15.4	GVEA007C40
F9402	1C2021	01	02.81720	08	39	01.60	+49	22	33.6	15.4	GVEA007C40
F9402	1C2021	01	02.81826	08	39	01.44	+49	22	32.3	15.5	GVEA007C40
F9402	1C2021	01	02.81934	08	39	01.29	+49	22	30.8	15.5	GVEA007C40
F9402	1C2021	01	02.82041	08	39	01.11	+49	22	29.5	15.5	GVEA007C40
F9402	1C2021	01	02.82148	08	39	00.95	+49	22	28.0	15.6	GVEA007C40
F9402	1C2021	01	02.82255	08	39	00.78	+49	22	26.6	15.5	GVEA007C40
F9402	1C2021	01	02.82362	08	39	00.63	+49	22	25.2	15.4	GVEA007C40
F9402	1C2021	01	02.82469	08	39	00.46	+49	22	23.7	15.4	GVEA007C40
F9402	1C2021	01	02.82576	08	39	00.30	+49	22	22.2	15.5	GVEA007C40
F9402	1C2021	01	02.82683	08	39	00.15	+49	22	20.9	15.6	GVEA007C40
F9402	1C2021	01	02.82791	08	38	59.98	+49	22	19.5	15.4	GVEA007C40
F9402	1C2021	01	02.82897	08	38	59.82	+49	22	18.0	15.2	GVEA007C40
F9402	1C2021	01	02.83118	08	38	59.49	+49	22	15.1	15.5	GVEA007C40
F9402	1C2021	01	02.83226	08	38	59.32	+49	22	13.6	15.4	GVEA007C40
F9402	1C2021	01	02.83332	08	38	59.15	+49	22	12.3	15.3	GVEA007C40
F9402	1C2021	01	02.83440	08	38	58.99	+49	22	10.9	15.3	GVEA007C40
F9402	1C2021	01	02.83546	08	38	58.83	+49	22	09.4	15.4	GVEA007C40
F9402	1C2021	01	02.83654	08	38	58.66	+49	22	08.0	15.4	GVEA007C40
F9402	1C2021	01	02.83760	08	38	58.50	+49	22	06.6	15.4	GVEA007C40
F9402	1C2021	01	02.83868	08	38	58.34	+49	22	05.0	15.4	GVEA007C40
F9402	1C2021	01	02.83975	08	38	58.17	+49	22	03.8	15.4	GVEA007C40



F9402	1C2021	01	02.84082	08	38	58.01	+49	22	02.3	15.4	GVEA007C40
F9402	1C2021	01	02.84189	08	38	57.84	+49	22	00.9	15.5	GVEA007C40
F9402	1C2021	01	02.84295	08	38	57.68	+49	21	59.5	15.3	GVEA007C40
F9402	1C2021	01	02.84403	08	38	57.50	+49	21	58.0	15.2	GVEA007C40
F9402	1C2021	01	02.84509	08	38	57.36	+49	21	56.6	15.5	GVEA007C40
F9402	1C2021	01	02.84723	08	38	57.02	+49	21	53.6	15.3	GVEA007C40
F9402	1C2021	01	02.84831	08	38	56.86	+49	21	52.2	15.4	GVEA007C40
F9402	1C2021	01	02.84938	08	38	56.69	+49	21	50.8	15.3	GVEA007C40
F9402	1C2021	01	02.85045	08	38	56.53	+49	21	49.5	15.3	GVEA007C40
F9402	1C2021	01	02.85152	08	38	56.36	+49	21	47.9	15.3	GVEA007C40
F9402	1C2021	01	02.85259	08	38	56.20	+49	21	46.5	15.4	GVEA007C40
F9402	1C2021	01	02.85366	08	38	56.03	+49	21	45.1	15.3	GVEA007C40
F9402	1C2021	01	02.85473	08	38	55.87	+49	21	43.6	15.4	GVEA007C40
F9402	1C2021	01	02.85525	08	38	55.79	+49	21	43.0	15.4	GVEA007C40
F9402	1C2021	01	02.85633	08	38	55.62	+49	21	41.5	15.2	GVEA007C40
F9402	1C2021	01	02.85740	08	38	55.45	+49	21	40.0	15.3	GVEA007C40
F9402	1C2021	01	02.85847	08	38	55.30	+49	21	38.6	15.2	GVEA007C40
F9402	1C2021	01	02.85954	08	38	55.14	+49	21	37.1	15.3	GVEA007C40
F9402	1C2021	01	02.86061	08	38	54.97	+49	21	35.7	15.3	GVEA007C40
F9402	1C2021	01	02.86168	08	38	54.80	+49	21	34.3	15.4	GVEA007C40
F9402	1C2021	01	02.86275	08	38	54.64	+49	21	32.8	15.4	GVEA007C40
F9402	1C2021	01	02.86382	08	38	54.47	+49	21	31.4	15.3	GVEA007C40
F9402	1C2021	01	02.86490	08	38	54.30	+49	21	30.0	15.3	GVEA007C40
F9402	1C2021	01	02.86596	08	38	54.14	+49	21	28.6	15.3	GVEA007C40
F9402	1C2021	01	02.86704	08	38	53.97	+49	21	27.1	15.4	GVEA007C40
F9402	1C2021	01	02.86918	08	38	53.64	+49	21	24.1	15.3	GVEA007C40
F9402	1C2021	01	02.87024	08	38	53.48	+49	21	22.7	15.3	GVEA007C40
F9402	1C2021	01	02.87132	08	38	53.31	+49	21	21.3	15.4	GVEA007C40
F9402	1C2021	01	02.87238	08	38	53.15	+49	21	19.8	15.3	GVEA007C40
F9402	1C2021	01	02.87346	08	38	52.98	+49	21	18.4	15.4	GVEA007C40
G2900	C2021	01	02.06436222	36	05.45	-12	18	46.7			VEA007G96
G2900	C2021	01	02.06864122	36	05.85	-12	18	43.8		20.89	GVEA007G96
G2900	C2021	01	02.07292722	36	06.15	-12	18	41.9		20.74	GVEA007G96
G2900	C2021	01	02.07720622	36	06.56	-12	18	38.1		21.23	GVEA007G96
G3902	C2021	01	03.09406	04	50	38.11	+31	28	54.3	15.3	RSEA007726
G3902	C2021	01	03.09868	04	50	38.24	+31	28	38.3	15.1	RSEA007726
G3902	C2021	01	03.10288	04	50	38.35	+31	28	23.3	15.2	RSEA007726
I5851	KC2016	09	30.06817003	38	42.19	+32	48	47.1		15.8	RVEA007160
I5851	KC2016	09	30.06953103	38	41.84	+32	48	48.7		16.1	RVEA007160
I5851	KC2016	09	30.07086303	38	41.49	+32	48	50.3		16.2	RVEA007160
I9040	C2021	01	02.58149409	30	19.56	-11	33	06.7		18.20	oVEA007T08
I9040	C2021	01	02.61005109	30	26.63	-11	33	28.3		18.36	oVEA007T08
I9040	C2021	01	02.63869409	30	33.73	-11	33	49.7		18.00	oVEA007T08
I9040	C2021	01	02.66353809	30	39.97	-11	34	07.5		18.19	oVEA007T08
P2091	C2021	01	02.06205622	42	52.29	-12	23	50.1		18.61	GVEA007G96
P2091	C2021	01	02.06633422	42	54.08	-12	23	42.6		18.79	GVEA007G96
P2091	C2021	01	02.07061622	42	55.88	-12	23	35.2		18.95	GVEA007G96
P2091	C2021	01	02.07489922	42	57.68	-12	23	27.6		18.89	GVEA007G96
R5714	C2021	01	02.23622703	08	06.75	+22	25	04.7		18.79	GVEA007703
R5714	C2021	01	02.24149403	08	07.54	+22	25	21.9		18.35	GVEA007703
R5714	C2021	01	02.24676103	08	08.27	+22	25	38.3		18.67	GVEA007703
R5714	C2021	01	02.25203503	08	09.01	+22	25	53.9		19.02	GVEA007703
R6409	C2021	01	02.32448807	17	47.74	+64	22	38.9		17.91	GVEA007703
R6409	C2021	01	02.32987307	17	42.08	+64	22	04.4		17.93	GVEA007703
R6409	C2021	01	02.33525607	17	36.36	+64	21	30.5		18.11	GVEA007703
R6409	C2021	01	02.34063107	17	30.48	+64	20	56.7			VEA007703
R6409	C2021	01	02.41283207	16	17.58	+64	13	25.3		17.91	oVEA007T05
R6409	C2021	01	02.41466107	16	15.62	+64	13	13.8		18.01	oVEA007T05
R6409	C2021	01	02.41836107	16	11.82	+64	12	50.5		18.02	oVEA007T05
R6409	C2021	01	02.43291607	15	56.56	+64	11	18.6		17.93	oVEA007T05
R6409	KC2021	01	02.74403107	10	47.84	+63	37	51.9		18.1	GVEA007L18
R6409	KC2021	01	02.74599807	10	45.92	+63	37	40.0		18.1	GVEA007L18
R6409	KC2021	01	02.74796507	10	44.00	+63	37	26.9		18.5	GVEA007L18
U7493	C2021	01	02.39762112	40	46.59	+40	19	12.7		18.73	GVEA007703
V0842	C2021	01	02.10864623	25	15.88	+17	54	08.2		18.63	GVEA007703
V0842	C2021	01	02.12449023	25	27.17	+17	54	47.2		20.10	GVEA007703
Z5046	C2021	01	03.22206	03	44	04.898	+11	25	41.71	21.5	wUEA007F52
Z5046	C2021	01	03.23293	03	44	04.326	+11	25	52.17	21.9	wUEA007F52
Z5046	C2021	01	03.24385	03	44	03.762	+11	26	02.64	21.5	wUEA007F52
Z5046	C2021	01	03.25478	03	44	03.201	+11	26	12.99	21.1	wUEA007F52
b3579	C2021	01	03.22015	03	33	58.853	+11	01	52.74	19.7	wUEA007F52
b3579	C2021	01	03.23102	03	33	57.670	+11	02	10.96	19.6	wUEA007F52
b3579	C2021	01	03.25287	03	33	55.288	+11	02	47.32	19.7	wUEA007F52
b8160	C2021	01	02.13117102	00	06.55	+51	45	50.8		19.23	GVEA007G96
b8160	C2021	01	02.13658802	00	06.67	+51	45	36.9			VEA007G96
b8160	C2021	01	02.14204902	00	06.80	+51	45	23.2		19.28	GVEA007G96
b8160	C2021	01	02.14750902	00	06.93	+51	45	09.2		19.21	GVEA007G96
c0359	C2021	01	02.36728712	29	57.75	+58	05	33.5			VEA007G96
c0359	C2021	01	02.37789812	29	59.27	+58	05	30.4		18.35	GVEA007G96
c0359	C2021	01	02.38322512	30	00.06	+58	05	29.0		18.36	GVEA007G96
c2625	C2021	01	02.14983602	12	48.06	+51	29	00.7		19.38	GVEA007G96
c2625	C2021	01	02.15532802	12	49.68	+51	28	52.4		19.38	GVEA007G96
c2625	C2021	01	02.16087902	12	51.31	+51	28	44.0		19.44	GVEA007G96
e8980	C2021	01	02.17115403	20	28.67	+46	45	02.5		21.32	GVEA007G96
e8980	C2021	01	02.17656103	20	27.78	+46	44	57.9		21.28	GVEA007G96
e8980	C2021	01	02.18201803	20	26.88	+46	44	52.9		21.31	GVEA007G96
f4586	C2021	01	02.21813	02	03	47.809	+06	57	31.32	19.3	wUEA007F52
f4586	C2021	01	02.23054	02	03	47.812	+06	57	36.53	19.3	wUEA007F52
f4586	C2021	01	02.24290	02	03	47.823	+06	57	41.96	19.2	wUEA007F52
f4586	C2021	01	02.24425	02	03	47.819	+06	57	42.49	19.3	wUEA007F51
f4586	C2021	01	02.25525	02	03	47.827	+06	57	47.46	19.3	wUEA007F52
f4586	C2021	01	02.25609	02	03	47.827	+06	57	47.59	19.3	wUEA007F51
f4586	C2021	01	02.26798	02	03	47.833	+06	57	52.69	19.3	wUEA007F51

f5029	C2021	01	02.27637205	02	30.34	+27	56	28.8	16.34GVEA007703
f5029	C2021	01	02.28237305	02	29.04	+27	56	12.2	16.43GVEA007703
f5029	C2021	01	02.28834405	02	27.75	+27	55	55.6	16.40GVEA007703
f5029	C2021	01	02.29429505	02	26.46	+27	55	39.1	16.45GVEA007703
f6694	C2021	01	02.51047811	12	22.36	+38	31	46.9	16.84oVEA007T05
f6694	C2021	01	02.51736111	12	26.37	+38	32	05.7	17.28oVEA007T05
f6694	C2021	01	02.52150311	12	28.69	+38	32	17.1	17.02oVEA007T05
f6694	C2021	01	02.52699311	12	31.84	+38	32	32.2	17.10oVEA007T05
f7217	C2021	01	02.14946400	52	58.22	+37	09	13.5	18.80GVEA007703
f7217	C2021	01	02.15472900	52	58.41	+37	08	43.2	18.93GVEA007703
f7217	C2021	01	02.15999700	52	58.67	+37	08	12.6	18.43GVEA007703
f7217	C2021	01	02.16526200	52	58.85	+37	07	43.3	19.03GVEA007703
f7217	C2021	01	02.23861300	53	03.71	+37	00	59.5	18.72oVEA007T05
f7217	C2021	01	02.24181800	53	03.89	+37	00	40.9	18.86oVEA007T05
f7217	C2021	01	02.24822900	53	04.10	+37	00	04.3	18.84oVEA007T05
f7217	C2021	01	02.25467900	53	04.41	+36	59	27.7	18.73oVEA007T05
f7217	C2021	01	02.26017600	53	04.58	+36	58	56.6	18.68oVEA007T05
f7217	C2021	01	02.26063300	53	04.62	+36	58	54.4	18.79oVEA007T05
f7217	C2021	01	02.27242400	53	05.11	+36	57	47.3	18.70oVEA007T05
f8849	C2021	01	02.15299401	11	43.86	+17	36	47.2	18.65GVEA007703
f8849	C2021	01	02.15826201	11	43.36	+17	37	50.3	18.18GVEA007703
f8849	C2021	01	02.16352901	11	42.87	+17	38	54.0	18.71GVEA007703
f8849	C2021	01	02.16879401	11	42.41	+17	39	55.2	VEA007703
g8086	C2021	01	02.27922	02	47	10.179+31	30	31.04	19.4 iUEA007F52
g8086	C2021	01	02.29231	02	47	10.693+31	30	22.63	19.0 iUEA007F52
g8086	C2021	01	02.29310	02	47	10.734+31	30	22.29	19.3 iUEA007F51
g8086	C2021	01	02.30531	02	47	11.205+31	30	14.80	19.4 iUEA007F52
g8086	C2021	01	02.31529	02	47	11.601+31	30	08.56	19.2 iUEA007F51
k5749	C2021	01	02.50543410	48	35.17	+65	47	35.6	17.11oVEA007T05
k5749	C2021	01	02.50819310	48	36.21	+65	47	41.7	17.28oVEA007T05
k5749	C2021	01	02.51369910	48	38.14	+65	47	54.8	17.42oVEA007T05
k5749	C2021	01	02.52011810	48	40.68	+65	48	09.4	17.30oVEA007T05
k5749	C2021	01	02.56151	10	48	56.424+65	49	43.94	17.1 iUEA007F51
k5749	C2021	01	02.57512	10	49	01.593+65	50	14.74	17.1 iUEA007F51
k5749	C2021	01	02.58874	10	49	06.733+65	50	45.42	17.3 iUEA007F51

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