Table 5 Component Scores of Chip Samples (1)

Sample No.	X	Y	Z(01)	Z(02)	Z(03)	Z(04)	Z(05)	Z(06)	Z(07)
1: AK001	1569	4895	-1.472	-1.064	-0.361	-0.217	0.566	0.102	-0.612
2: AK012	7665	3904	-0.615	2.568	0.381	0.433	-0.572	-0.413	0.446
3: AK014	7626	3906	-2.102	2.035	-1.025	0.463	-0.235	-1.557	0.335
4: AK015	7597	3909	-2.138	1.953	0.142	0.266	-0.035	-0.915	-0.119
5: AK016	7585	3901	-0.774	1.768	-1.781	0.344	-0.085	-0.209	0.828
6: AK017	7569	3890	-1.238	1.340	-1.747	0.098	-0.057	-0.404	0.317
7: AK018	7551	3868	-1.822	2.164	-1.421	0.301	0.241	-0.413	-0.109
8: AK020	7448	3820	-1.550	1.839	-0.333	0.379	-0.187	-0.602	0.317
9: AK021	7451	3858	-0.119	2.342	-0.414	-0.196	-0.693	0.220	-0.001
10: AK022	7460	3891	-1.442	2.232	0.220	0.059	-0.077	-0.321	0.731
11: AK023	7416	3890	-0.736	2.112	-1.245	0.381	-0.219	-0.410	0.779
12: AK024	7402	3864	-0.832	1.429	-1.937	0.073	0.274	0.244	-0.259
13: AK027	7413	3858	-0.852	1.353	-1.769	0.256	0.216	0.240	0.028
14: AK028	7409	3862	-0.869	1.306	-1.667	0.369	0.008	-0.187	-0.420
15: AK029	7406	3849	-1.448	1.783	-0.448	0.740	0.052	0.325	0.064
16: AK031	7420	3624	-1.859	1.055	-1.142	0.242	0.361	-0.346	-0.123
17: AK032	7415	3809	0.562	1.698	0.975	-0.120	0.871	0.255	0.421
18: AK038	7249	3700	0.010	1.143	-0.779	-0.450	-0.605	0.468	-0.859
19: AK039	7334	3887	-1.999	-0.602	-0.573	0.781	0.160	-0.127	-0.706
20: AK041	7283	3522	-2.283	-1.555	0.048	0.288	0.077	0.161	-0.063
21: AK042	7298	3514	-1.764	-0.873	0.660	-1.712	0.810	-0.931	0.517
22: AK043	7347	3514	-1.340	0.893	-1.645	0.201	0.118	-0.299	-0.738
23: AK044	7436	3524	-1.397	1.192	-1.727	0.309	0.349	0.058	-0.411
24: AK045	7520	3528	-0.211	0.498	-1.212	0.253	0.439	-0.273	-0.915
25: AK051	7780	3583	-3.221	-1.007	0.173	0.563	0.367	-0.311	-0.438
26: AK054	7781	3603	-0.695	1.417	-1.584	0.348	0.051	0.075	0.272
27: AK056	7737	3685	1.531	0.999	-0.005	-1.877	-0.255	1.091	0.265
28: AK057	7627	3569	-0.867	1.078	0.095	-0.431	-0.667	-0.286	0.218
29: AK059	7949	3842	-0.952	1.632	-1.456	0.416	-0.061	-0.272	0.591
30: AK060	7934	3843	-1.004	1.410	-1.471	0.396	-0.035	-0.250	0.341
31: AK061	7970	3890	-0.001	1.977	-1.241	-0.020	-0.301	-1.387	0.466
32: AK063	7773	3885	0.066	1.758	-1.740	-0.345	0.851	-0.105	0.737
33: AK064	7775	3855	0.217	3.160	0.382	-0.723	1.034	-0.241	0.550
34: AK065	7795	3813	-0.743	2.143	0.353	0.126	-0.405	-0.323	0.822
35: AK067	7909	3817	-1.273	1.294	-1.597	0.586	-0.105	-0.337	0.780
36: AK069	7677	3808	-1.764	0.876	-0.155	0.586	-0.041	-0.485	0.704
37: AK071	7435	2841	1.534	0.835	-0.136	0.599	-0.413	-0.285	1.593
38: AK073	7441	2856	1.069	2.758	0.818	-0.098	-1.094	1.343	-0.084
39: AK074	7440	2866	0.182	1.526	0.555	-0.617	-0.821	0.644	-0.345
40: AK075	7435	2869	0.474	1.189	0.331	-0.417	-0.757	0.991	-0.225
41: AK076	7437	2900	1.025	1.008	-2.911	0.779	-0.064	1.193	-0.169
42: AK082	7347	2977	-0.029	2.561	-0.527	0.444	-0.264	1.322	-0.414
43: AK083	7340	2982	0.438	1.955	-0.376	-1.330	0.811	0.289	0.310
44: AK084	7324	2997	0.072	2.260	-0.342	0.414	-0.282	1.144	-0.737
45: AK086	7311	3022	0.073	1.218	-1.619	-0.693	-0.251	-0.886	-0.605
46: AK087	7293	3055	0.807	2.117	-0.282	-1.168	1.926	1.430	0.229
47: AK090	7270	3140	-0.952	1.497	-1.573	0.182	-0.319	-0.773	0.203
48: AK091	7292	3184	-0.003	0.787	-1.332	-0.273	-0.754	-0.255	-0.090
49: AK093	8110	4343	-0.607	1.565	-1.310	-0.449	-0.860	-1.154	0.749
50: AK095	8118	4356	-0.812	1.405	-0.562	0.553	-0.649	-0.436	0.729

Table 5 Component Scores of Chip Samples (2)

Sample No.	X	Y	Z(01)	Z(02)	Z(03)	Z(04)	Z(05)	Z(06)	Z(07)
51: AK097	8134	4344	-0.172	1.298	-1.226	-0.431	-0.845	-0.881	1.158
52: AK098	8139	4342	-0.274	1.362	-1.072	-0.228	-0.962	-0.801	0.576
53: AK099	8146	4340	-0.745	0.814	-0.759	-0.096	-0.654	-0.838	1.167
54: AK100	8154	4344	-1.495	1.268	-1.552	-0.081	-0.638	-1.276	0.528
55: AK105	8195	4391	0.713	2.536	-0.221	-0.454	0.682	0.584	0.163
56: AK112	8265	4489	2.622	0.951	-3.749	1.603	-0.545	0.495	0.578
57: AK114	8297	4542	-1.235	1.199	-1.095	-0.066	-0.442	-0.511	0.406
58: AK115	8312	4560	-0.120	1.803	-1.724	0.511	-0.055	-0.017	0.599
59: AK117	8350	4580	0.787	-0.418	0.438	-1.572	-0.151	-0.111	2.313
60: HB005	1308	4151	-0.770	-1.519	0.793	-2.368	3.787	-0.508	0.319
61: HB006	1495	4331	-1.024	-0.618	-0.298	-0.944	0.877	-0.079	0.063
62: HB007	1495	4331	-0.015	-1.310	0.849	-2.071	3.310	-0.298	0.522
63: HB008	1479	4325	0.102	0.953	-0.755	-0.494	1.930	-1.531	-0.170
64: HB011	1477	4283	2.130	-0.118	-0.314	-3.052	1.787	-1.129	-0.542
65: HB013	1433	4239	-0.173	0.628	-1.442	-0.788	2.180	0.565	-0.883
66: HB016	1435	4204	9.602	-3.500	-1.415	2.013	2.596	-0.663	-2.088
67: HB017	1435	4204	7.814	-1.135	-2.172	1.573	0.707	0.097	0.718
68: HB018	1435	4204	4.655	-2.234	-0.372	-0.018	0.274	0.865	0.686
69: HB020	1449	4197	0.259	-2.104	0.285	-2.086	2.423	0.284	0.380
70: HB022	1505	4194	-0.176	-1.917	0.391	-1.512	3.268	0.055	0.009
71: HB029	1619	4274	-0.523	-1.347	-0.565	0.390	-0.267	0.195	0.353
72: HB030	1623	4273	-0.803	-0.552	-0.876	-0.868	1.208	1.227	-0.544
73: HB032	1413	4327	3.010	-4.000	2.078	-1.609	0.901	-1.051	-0.747
74: HB034	1393	4301	0.576	-0.602	-0.704	-2.093	0.228	-0.282	-0.432
75: HB035	1399	4294	-0.434	-1.165	1.671	-0.986	2.047	0.094	-0.606
76: HB036	1399	4291	-0.287	0.583	-0.969	-1.352	1.959	-0.168	-0.469
77: HB037	1399	4277	-0.244	-0.076	-1.633	-0.013	1.515	0.506	-1.132
78: HB039	1470	4344	-1.888	-1.979	0.874	-1.450	2.894	0.418	0.061
79: HB053	8449	3014	-2.415	-0.060	0.025	0.091	0.671	-0.944	-0.378
80: HB054	8410	3022	-2.949	-0.979	0.380	0.596	0.761	-0.622	-0.380
81: HB055	8410	3022	-2.287	0.169	-0.361	0.042	-0.033	-1.337	-0.795
82: HB056	8382	3041	-3.569	-0.992	0.312	0.980	0.506	-0.217	0.244
83: HB057	8367	3045	-1.044	-0.874	1.011	0.557	2.359	-0.745	0.761
84: HB060	8350	3065	0.402	-0.155	1.098	0.541	3.317	-0.779	0.852
85: HB061	8349	3068	-1.265	-0.188	1.146	2.128	1.266	-1.045	0.834
86: HB062	8331	3085	-2.414	-1.112	0.663	1.209	1.189	-0.955	-0.155
87: HB063	8331	3085	-0.386	-0.283	0.306	0.122	1.268	0.339	-0.734
88: HB065	8289	3087	-1.525	-0.595	1.606	0.584	2.126	-0.017	-0.316
89: HB066	8289	3087	-1.858	-0.346	0.904	0.371	2.410	-0.580	0.116
90: HB067	8277	3091	-0.368	-0.725	1.826	-1.677	0.906	0.227	-0.110
91: HB072	8212	2143	0.405	-2.113	2.027	0.385	1.905	-2.108	-0.079
92: HB073	8212	2143	-0.012	-1.977	2.107	0.893	1.101	-2.567	-0.148
93: HB075	8208	2152	1.510	-1.906	2.383	0.457	-0.554	-1.622	0.030
94: HB076	8208	2152	1.428	-1.753	2.236	0.673	0.271	-1.410	0.564
95: HB077	8208	2152	1.617	-0.819	2.654	0.642	-0.915	-2.226	0.312
96: HB078	8174	2139	-1.421	-0.935	-0.220	1.119	1.097	-0.844	-1.070
97: HB079	8152	2133	1.765	-1.128	3.101	0.610	0.015	-0.733	1.289
98: HB080	8152	2133	1.501	-1.300	3.282	1.070	-0.695	-1.013	1.271
99: HB081	8130	2123	1.237	-0.643	1.363	-0.829	0.124	-1.211	-0.432
100: HB082	8117	2154	-0.226	-0.906	3.099	0.375	-1.111	-0.970	1.366

Table 5 Component Scores of Chip Samples (3)

Sample No.	X	Y	Z(01)	Z(02)	Z(03)	Z(04)	Z(05)	Z(06)	Z(07)
101: HB083	8101	2174	-0.555	-0.078	0.312	-0.303	0.194	-2.643	-0.812
102: HB085	8060	2157	2.660	0.269	2.568	-0.497	0.299	0.279	0.491
103: HB087	8051	2166	-2.208	-0.455	0.692	-0.247	1.516	-1.425	0.114
104: HB088	8033	2154	-2.145	-0.649	2.039	0.994	0.410	-0.301	0.980
105: HB089	8028	2165	-2.142	-0.861	-0.003	0.723	-0.014	-0.193	-0.602
106: HB093	7962	2158	-1.070	-0.008	1.132	0.096	-0.942	-0.567	0.117
107: HB096	7962	2158	-0.295	0.775	1.548	-0.444	-1.357	-0.149	-0.719
108: HB097	7982	2169	0.633	0.479	0.633	-0.947	-1.484	0.232	-1.406
109: HB098	7988	2185	-0.863	0.077	1.385	-0.686	-0.847	-0.700	0.657
110: HB099	8031	2209	-2.754	-1.063	0.383	0.038	-0.089	-0.362	0.095
111: HB100	8046	2218	-2.406	-1.002	1.317	0.403	-0.371	-0.358	1.099
112: HB101	8101	2208	-0.032	0.816	-0.896	-0.673	-0.640	0.163	-0.503
113: HB102	8145	2224	-2.549	-0.513	0.009	-0.167	-0.091	-0.739	-0.670
114: HB104	8200	2204	-0.305	0.754	-0.168	-0.463	-0.506	0.897	-0.871
115: HB109	8267	2184	0.185	1.592	0.063	-0.705	-0.936	0.445	0.369
116: HB110	8248	2238	-1.959	0.054	0.024	-0.335	-0.410	-0.911	-0.686
117: HB111	8248	2238	-0.419	1.171	-0.664	-0.634	-0.344	-0.219	-1.536
118: HB112	8249	2240	-0.478	1.110	-0.683	-1.043	0.676	-0.775	0.185
119: HB113	8249	2240	-0.443	-0.027	0.678	-1.751	-0.794	-0.586	-2.134
120: HB114	8249	2240	1.610	0.172	0.739	-4.025	1.408	-0.154	-1.686
121: HB116	8236	2248	-0.280	1.273	-0.495	-0.128	-0.084	0.184	-1.200
122: HB117	8239	2249	-1.140	0.990	-0.520	-0.716	-0.461	-1.133	-0.425
123: HB118	8251	2259	-2.042	-0.782	-0.147	-0.342	-0.188	-0.623	-0.817
124: HB124	7981	2459	-0.693	-0.463	-0.151	-1.681	0.629	-1.680	-1.384
125: HB125	7970	2487	-1.094	-0.432	-0.097	-0.692	-0.997	-0.821	-0.997
126: HB126	7999	2516	-2.500	-0.999	1.101	0.223	-0.091	-0.349	0.034
127: HB126	8080	2530	-3.045	-0.666	0.681	0.718	0.194	-0.351	0.048
128: HB127	8080	2530	0.448	-0.773	2.499	1.082	-0.210	-2.234	0.703
129: HB128	8080	2530	3.210	-0.527	2.434	-2.216	0.186	-0.749	0.263
130: HB133	8284	2565	-0.521	1.624	0.920	-0.289	-0.598	-0.090	0.688
131: HB135	8284	2565	-0.838	0.207	0.493	-0.210	-0.632	-0.398	0.229
132: HB137	8284	2594	-1.472	0.537	0.474	-0.067	-0.567	-0.881	0.577
133: HB138	8284	2594	-2.762	-0.699	0.386	0.159	0.165	0.056	0.712
134: HB139	8284	2594	-1.064	-0.342	0.403	-0.800	-0.028	-1.267	0.832
135: HB141	8313	2612	-2.649	-0.755	0.205	0.182	-0.287	-1.005	-0.514
136: HB144	8404	2639	-2.137	0.495	-0.259	-0.141	-0.087	-1.062	-0.575
137: HB146	8404	2639	-1.329	-0.344	-0.239	-0.486	-0.546	-0.921	-0.793
138: HB147	8404	2639	-1.029	0.045	0.787	0.081	-0.483	-0.017	1.017
139: HB149	8407	2637	-2.077	-1.064	0.969	0.549	0.062	0.312	0.096
140: HB150	8420	2629	-2.409	-0.823	0.384	0.699	0.222	-0.544	-0.038
141: HB151	7979	2620	-0.783	1.232	-1.593	0.083	0.144	-0.055	-0.361
142: HB152	7964	2648	1.243	0.693	0.242	-0.986	-0.474	-0.061	1.068
143: HB153	8014	2634	-1.646	0.729	-0.785	-0.401	0.156	-0.085	-0.150
144: HB154	8052	2661	-1.262	1.194	-1.566	-0.141	0.224	-0.032	-0.518
145: HB156	8105	2566	0.414	0.897	2.739	-0.333	1.705	0.605	-0.197
146: HB157	8105	2540	-0.697	0.437	0.891	-0.033	-1.121	-0.610	0.131
147: HB158	8088	2499	-1.903	-0.340	-0.317	-0.168	-0.503	-0.998	-1.143
148: HB159	8077	2469	-1.123	0.187	0.115	-0.837	0.100	0.127	-1.441
149: HB160	8102	2413	-2.033	-0.694	0.019	-0.078	-0.308	-0.396	-0.172
150: HB163	7934	2259	-0.210	1.427	-1.456	-0.158	-0.067	0.507	0.370

Table 5 Component Scores of Chip Samples (4)

Sample No.	X	Y	Z(01)	Z(02)	Z(03)	Z(04)	Z(05)	Z(06)	Z(07)
151: HB164	7934	2259	-0.425	1.506	-1.251	0.031	-0.644	-0.807	-0.156
152: HB166	7936	2258	2.122	0.738	-1.070	-1.695	-0.472	-0.151	0.208
153: HB167	7996	2246	1.173	1.353	1.044	-0.928	-0.217	0.370	-0.344
154: HB169	8006	2242	-0.348	1.416	-1.224	-0.326	-0.451	-0.272	0.176
155: HB171	8061	2250	-0.307	0.886	-0.842	-1.297	-0.617	-0.867	-0.712
156: HB172	8104	2235	-0.179	0.475	-0.857	-1.054	-0.462	-0.703	-1.263
157: HB174	8123	2289	-2.313	-1.032	0.145	-0.361	-0.043	-0.017	-0.257
158: HB175	8170	2270	-0.418	0.166	-0.945	-0.500	0.084	0.020	-0.117
159: HB182	8698	5057	-0.809	0.393	-0.893	0.291	0.095	0.380	0.132
160: HB183	8698	5057	0.153	0.497	-0.466	0.351	-0.447	-1.381	-0.316
161: HB185	8690	5072	-0.407	-0.156	-0.732	0.397	-0.282	0.581	0.630
162: HB186	8685	5085	-1.174	0.109	0.036	0.101	0.995	-0.118	0.698
163: HB188	8684	5142	0.381	-0.532	-1.886	0.117	0.519	1.017	0.865
164: HB190	8662	5171	-1.151	-0.025	-0.764	0.231	0.287	0.516	-0.070
165: HB192	8613	5178	1.873	0.711	-1.896	0.068	-0.066	1.254	-1.326
166: HB193	8613	5178	2.643	1.816	-0.813	-0.190	-1.562	-0.193	-2.507
167: HB195	8615	5111	-0.369	0.965	0.363	0.359	-1.165	-0.260	-1.625
168: HB196	8639	5071	0.259	0.754	1.326	0.523	-1.188	0.639	-2.292
169: HB205	8870	5063	-0.750	-0.153	0.019	-0.270	-0.022	0.825	0.498
170: HB206	8870	5063	-0.017	1.402	0.409	-0.338	-0.078	0.576	-1.357
171: HB208	8882	5124	-0.347	-2.110	0.936	-0.049	1.941	-0.455	-0.384
172: HB209	8881	5137	-1.068	1.757	-0.354	0.168	-0.144	0.689	-1.257
173: HB210	8969	5003	0.460	-0.564	-1.226	1.185	0.997	1.972	-1.509
174: HB223	8817	4844	0.425	-1.247	-1.198	0.627	-0.339	0.926	0.279
175: HW008	1883	4528	-0.688	-1.018	-0.962	-0.630	0.465	0.692	-0.625
176: HW012	1812	4437	-1.880	-1.457	-0.507	0.759	-0.056	-0.053	-0.125
177: HW014	1366	4264	2.957	-1.856	-0.637	-0.752	-1.155	-0.756	-0.891
178: HW015	1361	4252	6.145	-1.963	-2.186	-0.264	-3.159	-2.270	-2.087
179: HW016	1357	4249	1.559	-2.182	-0.669	-1.515	-2.011	-1.228	-1.038
180: HW017	1350	4245	2.838	-1.916	-0.088	-0.297	-1.516	-2.005	-1.019
181: HW018	1350	4225	2.505	-2.314	-0.440	-0.745	-1.239	0.420	0.177
182: HW019	1321	4103	-0.541	-1.510	-0.728	-0.301	0.580	0.139	-0.104
183: HW020	1316	4107	3.144	-0.517	-0.427	-2.191	1.456	1.259	0.246
184: HW021	1315	4110	0.954	-1.295	-0.715	-2.468	0.881	1.010	-0.209
185: HW022	1312	4116	1.794	-1.442	-0.887	-1.995	0.946	0.915	0.028
186: HW024	1311	4127	1.923	-0.597	-1.137	-2.042	0.898	0.347	0.151
187: HW025	1310	4133	1.778	-2.090	-0.970	-0.596	-1.536	0.803	1.244
188: HW026	1311	4139	2.512	-1.310	0.434	-2.719	2.329	1.175	1.488
189: HW027	1312	4145	2.856	-1.623	-1.120	-2.847	0.580	0.468	-0.599
190: HW029	1319	4155	2.088	-0.714	-1.707	-2.313	0.572	0.229	-0.556
191: HW030	1321	4157	-0.659	-2.030	0.405	-2.252	2.315	0.309	0.296
192: HW031	1327	4161	1.496	-1.406	-0.229	-3.475	2.308	0.985	-0.306
193: HW032	1330	4163	7.768	-1.780	0.714	0.918	2.701	0.121	0.204
194: HW034	1342	4169	2.349	-1.165	-0.748	-2.819	1.818	0.352	0.253
195: HW038	7498	3772	-0.714	2.179	0.850	0.116	-0.692	-0.023	-0.570
196: HW040	7434	3730	-0.827	1.220	-1.063	0.183	-0.418	-0.508	0.351
197: HW046	7170	3867	-0.007	0.650	-0.107	-0.710	0.617	0.075	0.944
198: HW047	7155	3880	2.885	-0.523	0.443	0.468	1.780	-0.439	0.909
199: HW049	7166	3888	2.680	-0.322	0.897	-0.844	1.039	-0.049	1.712
200: HW052	7100	3855	-0.768	1.350	-1.800	-0.067	-0.019	-0.124	-0.167

Table 5 Component Scores of Chip Samples (5)

Sample No.	X	Y	Z(01)	Z(02)	Z(03)	Z(04)	Z(05)	Z(06)	Z(07)
201: HM055	7128	3316	-0.044	-0.714	0.259	0.249	-0.026	-0.846	0.928
202: HM056	7128	3316	-0.080	-0.122	-0.338	-0.940	-1.074	-1.003	0.629
203: HM059	7201	3430	-1.071	-0.581	-0.289	-0.722	1.173	0.011	0.092
204: HM063	7304	3410	-1.380	-1.551	-0.255	0.244	-0.049	0.944	0.199
205: HM065	7336	3339	-3.462	-1.486	0.516	1.094	0.778	-0.033	0.036
206: HM068	7321	3233	-0.322	0.848	-1.481	0.649	0.027	0.348	0.230
207: HM069	7315	3277	-0.953	1.343	-1.082	-0.026	-0.295	-0.422	0.452
208: HM070	8016	3226	-2.896	-0.927	0.177	0.311	0.211	-0.337	-0.560
209: HM071	8000	3208	-2.754	-0.921	-0.096	0.355	0.411	0.015	-0.676
210: HM072	7984	3200	-0.655	-1.073	1.753	-0.223	0.228	0.775	0.018
211: HM073	7978	3211	-1.731	-0.595	0.102	0.208	-0.269	0.501	-0.996
212: HM074	7968	3226	-2.703	-0.850	-0.030	0.287	-0.105	-0.773	-0.587
213: HM075	7926	3221	-2.197	0.160	0.071	0.395	-0.196	-0.704	-0.449
214: HM076	7915	3251	-3.141	-0.937	-0.044	0.504	0.119	-0.580	-0.293
215: HM077	7884	3286	-2.161	-0.750	1.174	0.806	0.002	0.597	-0.065
216: HM078	7870	3255	-1.995	-1.004	0.580	0.936	-0.075	0.138	0.702
217: HM079	7850	3254	1.203	-0.088	1.861	-0.180	-0.464	2.191	-0.350
218: HM080	7837	3258	-2.101	-0.784	0.878	-0.278	1.057	0.454	-0.263
219: HM082	7792	3298	-0.996	1.409	-0.212	0.066	0.706	1.204	-0.303
220: HM083	7776	3330	-0.483	2.117	1.072	-1.034	1.840	0.614	-0.070
221: HM084	7804	3400	-1.709	-0.018	1.230	0.508	-0.014	1.106	0.077
222: HM085	7842	3424	0.670	-0.111	1.797	-0.014	-1.286	0.257	-1.813
223: HM086	7867	3422	-1.561	-1.445	1.099	0.301	-0.487	-0.437	-0.441
224: HM089	7855	3378	-1.467	-0.671	0.754	0.087	-0.817	-0.850	-0.399
225: HM090	7764	3355	0.613	2.636	1.260	0.886	-0.922	0.389	-0.077
226: HM092	7670	3363	-2.056	0.519	-0.758	0.181	0.308	-0.008	0.196
227: HM093	7630	3350	-2.460	-0.211	-0.274	0.109	0.030	-0.647	-0.087
228: HM099	7854	3624	-0.590	2.569	-0.250	0.225	-0.714	-1.116	-0.281
229: HM100	7852	3624	-0.585	-0.381	-0.094	1.435	-0.429	0.133	-0.395
230: HM101	7769	3594	-2.463	-1.758	0.489	0.625	0.162	0.174	-0.257
231: HM102	7776	3575	-1.602	-1.711	0.968	0.211	-0.578	-0.193	0.561
232: HM105	7847	3487	1.502	-1.425	2.836	-0.252	-1.828	0.881	-1.030
233: HM107	7740	3470	-2.181	-0.743	0.412	0.105	-0.387	-0.706	-0.707
234: HM109	7661	3473	4.045	-0.314	0.244	-1.273	0.887	-0.428	0.159
235: HM110	7633	3489	-0.327	1.225	0.321	-0.144	0.032	0.820	-1.219
236: HM111	7594	3470	0.192	-0.226	2.357	0.794	-0.569	-0.616	-1.483
237: HM112	7547	3461	0.708	-0.584	1.588	-0.315	-0.873	-1.040	-1.957
238: HM119	7530	3623	0.430	-0.998	1.429	-0.969	0.520	-0.538	-0.090
239: HM122	7317	2890	-0.339	0.303	-1.151	-0.268	-0.368	0.252	0.102
240: HM123	7311	2901	-1.354	-0.897	-0.111	0.912	0.153	-0.027	0.933
241: HM125	7309	2920	-0.327	2.539	0.455	0.358	-0.251	1.412	-0.403
242: HM126	7277	2921	-0.330	1.667	-0.138	-0.087	-0.594	0.214	1.103
243: HM127	7231	2931	-1.039	0.755	-0.669	0.565	-0.201	0.827	-0.945
244: HM131	7156	3049	-0.681	0.548	-2.021	0.368	0.202	0.372	-0.236
245: HM134	7124	3071	0.258	-1.300	1.821	-0.148	0.011	-0.152	-0.585
246: HM135	7125	3071	-2.792	-0.881	0.313	0.544	0.367	-0.007	0.198
247: HM136	7142	3076	1.354	1.226	-0.135	0.878	-0.177	1.036	-0.117
248: HM137	7163	3090	0.476	1.415	0.342	-0.673	-1.012	1.148	-1.433
249: HM138	7177	3088	-1.145	-0.282	-0.922	0.534	-0.262	-0.276	-0.633
250: HM142	8124	4176	-0.051	2.171	1.120	1.427	0.881	1.276	0.474

Table 5 Component Scores of Chip Samples (6)

Sample No.	X	Y	Z(01)	Z(02)	Z(03)	Z(04)	Z(05)	Z(06)	Z(07)
251: HM143	8139	4180	-1.324	0.434	0.185	0.796	-0.117	-0.222	0.592
252: HM144	8160	4186	-1.170	1.709	-0.601	0.492	-0.205	-0.447	1.231
253: HM145	8172	4189	0.708	2.087	-0.735	0.766	0.495	-0.245	-0.110
254: HM146	8182	4175	0.495	1.306	0.374	0.201	-0.753	1.051	1.347
255: HM147	8190	4175	1.305	1.951	0.709	0.224	-1.226	0.910	1.307
256: HM151	8300	4304	-0.475	1.170	-1.273	0.194	-0.652	-1.114	0.132
257: HM153	8380	4460	-3.090	-1.385	0.158	0.822	0.244	-0.174	0.256
258: HM156	8111	4227	-0.660	1.454	-1.790	0.325	0.142	-0.061	0.435
259: HM157	8130	4240	-1.277	0.567	-0.339	-0.302	1.949	-0.139	1.416
260: HM158	8117	4277	-2.145	1.696	-0.356	0.308	0.031	-0.405	-0.745
261: HM161	8158	4296	-1.989	-0.087	-0.580	0.325	0.031	-0.289	0.117
262: HM162	8180	4300	-1.113	1.609	-0.309	0.206	-0.376	-0.005	0.043
263: HM166	8346	4427	-1.966	-0.268	-0.579	0.440	-0.056	-0.327	-0.371
264: HM167	8361	4453	-3.419	-1.340	0.298	0.776	0.451	0.041	0.365
265: HM169	8316	4230	1.149	1.546	0.000	0.973	-1.255	-1.262	0.921
266: HM170	8320	4243	0.038	0.486	0.383	0.578	-0.537	0.415	1.427
267: HM207	7116	3124	-1.736	-1.552	0.225	-0.726	0.834	-0.098	-0.299
268: HM208	7128	3189	-1.727	-1.595	0.450	0.663	0.297	-0.770	-0.052
269: HM209	7118	3197	4.453	-0.135	3.407	1.401	-2.142	-1.786	-2.517
270: HM210	7108	3218	1.392	-2.077	1.178	-1.523	0.640	0.594	0.291
271: HM211	7122	3229	0.867	-1.083	0.237	-0.260	-2.027	-1.377	-2.278
272: HM212	7145	3237	-2.007	-2.002	0.564	0.621	0.035	-0.716	0.141
273: HS004	1927	3980	-1.897	-1.424	-0.320	0.917	-0.249	-0.020	0.528
274: HS005	1904	4053	-2.467	-1.495	-0.314	0.622	0.440	0.702	-0.276
275: HS009	1961	4124	-1.779	-0.499	-1.273	-0.193	0.073	-0.099	-0.743
276: HS011	1997	4122	-1.175	-0.983	-1.225	0.119	0.177	0.773	-0.662
277: HS042	1399	4038	-1.417	-1.493	-0.984	0.121	0.625	1.457	-0.328
278: HS043	1399	4045	-1.110	-0.563	-0.901	-0.445	-0.455	-0.497	-0.530
279: HS046	1399	4067	2.237	-0.988	-1.012	-1.631	-0.836	0.572	1.458
280: HS049	1402	4094	2.080	-0.411	-0.936	-0.299	-0.223	-0.840	0.430
281: HS050	1410	4102	1.986	-1.203	-2.120	-1.085	-0.897	0.841	0.479
282: HS051	1407	4114	3.722	0.102	-2.266	-0.316	-0.273	-1.037	-0.028
283: HS054	1397	4121	0.713	-0.424	-0.901	0.214	-0.257	-0.736	0.639
284: HS055	1393	4123	0.332	-0.549	-2.145	-0.401	-0.250	0.621	0.008
285: HS056	1388	4126	0.481	-0.247	-1.835	-0.288	-0.707	0.109	0.503
286: HS058	1410	4123	1.257	-0.760	-1.284	-0.427	-0.515	-0.197	0.551
287: HS059	1415	4129	-1.859	-1.708	-0.103	-0.347	-0.321	-0.027	0.302
288: HS060	1418	4136	-0.262	-0.983	-1.082	0.022	-0.809	-0.239	-0.046
289: HS061	1417	4143	-2.294	-1.961	0.265	0.387	0.201	0.063	0.237
290: HS062	1416	4148	1.929	-0.132	-2.070	-0.309	-0.246	-0.268	-0.446
291: HS063	1415	4149	-2.374	-1.727	-0.004	0.266	0.155	0.393	0.177
292: HS065	1406	4156	0.842	-1.262	-1.404	-0.647	-0.962	0.883	0.575
293: HS067	1397	4170	1.209	-0.737	0.869	0.620	-1.460	-0.288	0.720
294: HS071	7418	2218	-1.567	0.281	-0.587	-0.230	-0.400	-0.728	-0.108
295: HS072	7402	2295	-1.026	0.657	-0.880	0.066	-0.233	-0.144	0.108
296: HS075	7452	2577	-0.207	0.807	-0.695	1.087	-0.232	1.182	0.211
297: HS076	7454	2574	-0.309	-0.784	-0.171	0.425	-0.355	0.925	0.206
298: HS077	7454	2574	0.659	0.256	-1.353	-0.136	-0.078	1.602	0.059
299: HS078	7473	2583	-1.236	-0.147	-0.120	0.386	-0.487	-0.832	0.077
300: HS080	7513	2595	1.523	-0.109	2.065	0.566	-0.543	0.013	0.494

Table 5 Component Scores of Chip Samples (7)

Sample No.	X	Y	Z(01)	Z(02)	Z(03)	Z(04)	Z(05)	Z(06)	Z(07)
301: HS081	7530	2593	0.035	1.265	-1.166	-0.339	-0.436	0.197	1.489
302: HS082	7538	2590	-0.841	1.930	0.041	0.052	-0.260	0.404	0.729
303: HS083	7520	2580	1.713	0.010	1.314	1.019	-0.611	-1.540	0.041
304: HS084	7103	2467	-1.092	1.528	0.203	-0.118	-0.638	-1.172	1.164
305: HS085	7120	2478	-0.794	-0.268	2.063	0.351	-0.454	1.303	0.302
306: HS086	7125	2450	-0.218	-1.964	1.604	-0.621	0.677	0.538	1.316
307: HS087	7125	2450	-1.530	-1.791	0.381	0.475	-0.187	0.682	0.779
308: HS088	7125	2450	-0.610	-2.316	1.209	-0.468	0.360	-0.002	0.313
309: HS089	7125	2450	1.374	-0.505	3.041	0.165	0.764	0.222	-0.221
310: HS090	7135	2449	0.473	2.252	1.363	-0.378	-0.988	-0.102	0.289
311: HS091	7138	2447	1.014	1.966	0.591	0.005	-0.933	0.605	1.174
312: HS092	7202	2497	0.399	2.322	1.012	-0.364	-1.035	0.177	1.329
313: HS093	7229	2510	3.266	0.764	1.163	1.384	0.311	-0.520	0.283
314: HS094	7229	2510	2.759	0.517	1.210	1.150	-0.095	-0.157	0.459
315: HS095	7240	2510	-2.815	-1.448	0.402	0.526	0.307	0.177	0.317
316: HS096	7289	2470	-0.236	0.790	-1.045	0.154	-0.093	0.678	0.730
317: HS101	7350	2443	-1.358	0.000	-1.260	0.419	0.382	0.592	-0.358
318: HS104	7362	2385	-0.134	-1.249	1.719	-0.546	-0.815	0.902	-1.378
319: HS106	7704	2300	-1.935	-0.937	0.653	0.018	-0.290	0.374	-1.321
320: HS107	7785	2254	0.266	1.098	0.120	-0.127	-0.720	0.985	0.219
321: HS110	7817	2113	-1.015	1.083	-0.467	-0.745	-0.813	-1.191	0.278
322: HS113	7778	2268	0.016	1.457	0.187	0.296	0.773	-1.037	-0.098
323: HS114	7784	2267	-1.891	0.426	-0.703	-0.076	-0.170	-0.500	-0.346
324: HS117	7789	2270	-2.607	-1.565	0.252	0.655	0.349	0.595	0.098
325: HS118	7823	2320	-0.390	-0.018	0.141	-2.798	1.502	0.235	1.486
326: HS119	7836	2342	4.178	0.605	3.075	0.663	-0.451	0.522	-0.377
327: HS120	7818	2327	-1.248	0.108	-1.131	0.023	0.072	0.096	0.063
328: HS123	7785	2237	0.546	-0.869	0.767	0.369	-0.870	0.145	0.428
329: HS124	7775	2229	-0.814	1.186	-0.887	-0.909	-0.372	-0.535	-0.111
330: HS126	7715	2164	-1.312	0.799	-1.635	-0.100	0.184	-0.012	-0.463
331: HS129	7316	2397	-0.882	-0.912	1.791	0.155	0.181	0.630	0.048
332: HS131	7234	2415	-1.209	0.394	0.170	0.391	-0.164	0.250	0.466
333: HS132	7234	2415	-0.409	0.047	-1.580	0.141	0.695	2.626	-0.170
334: HS137	7216	2317	-1.307	-0.402	0.348	0.436	-0.430	-0.433	0.681
335: HS138	7188	2314	-0.827	1.232	0.893	0.445	-0.554	-0.817	2.066
336: HS139	7122	2341	2.679	1.417	-0.329	0.285	0.609	1.606	0.555
337: HS140	7510	2707	-0.677	0.497	1.047	0.311	-0.433	0.373	0.507
338: HS141	7486	2712	1.016	-0.054	1.839	-0.132	-0.628	0.558	0.328
339: HS142	7473	2716	1.445	1.672	0.144	-0.419	-0.779	0.298	0.548
340: HS144	7576	2710	0.844	1.108	-0.655	-0.503	-0.199	-1.482	0.419
341: HS145	7600	2710	-0.370	1.447	0.485	-0.274	0.062	0.234	0.939
342: HS146	7626	2681	-0.752	0.356	0.201	-0.397	-0.779	-1.054	0.669
343: HS147	7638	2663	-0.876	0.960	0.120	0.043	-0.550	-0.655	1.971
344: HS150	7750	2593	-2.295	-1.257	-0.088	0.389	0.174	0.101	-0.122
345: HS151	7763	2567	-0.209	1.612	0.567	-0.588	0.429	1.130	-0.277
346: HS152	7772	2550	-2.907	-1.204	0.322	0.850	0.780	-0.582	-0.319
347: HS154	7792	2526	-2.755	-0.362	-0.387	0.228	0.412	0.010	-0.380
348: HS155	7800	2513	-0.087	0.358	-1.240	2.030	0.516	1.056	0.679
349: HS157	7786	2505	-1.520	-1.236	0.152	-0.231	-0.450	-0.178	-0.415
350: HS158	7786	2505	-2.487	-0.249	-0.637	0.188	-0.146	-0.841	-1.205

Table 5 Component Scores of Chip Samples (8)

Sample No.	X	Y	Z(01)	Z(02)	Z(03)	Z(04)	Z(05)	Z(06)	Z(07)
351: HS160	7768	2516	-2.952	-0.642	-0.427	0.746	0.421	-0.032	-0.467
352: HS161	7673	2527	-2.467	-0.731	-0.559	0.388	0.293	0.246	-0.032
353: HS163	7646	2985	2.753	0.257	-1.313	1.220	-0.595	2.193	0.875
354: HS164	7646	2985	1.974	2.746	1.551	-0.826	-0.967	1.678	-0.261
355: HS168	7584	2989	3.938	-0.020	2.141	-0.909	-2.455	0.839	0.081
356: HS169	7584	2989	2.219	0.557	-0.214	-0.487	-1.238	0.215	1.336
357: HS170	7580	2976	-0.786	-1.249	1.306	-0.387	-0.521	-0.635	1.265
358: HS171	7580	2976	4.083	1.189	2.369	-0.904	-2.167	1.129	1.556
359: HS172	7580	2976	3.422	0.008	2.103	-0.095	-2.521	0.737	0.556
360: HS173	7565	2972	2.995	-0.183	2.107	0.685	-2.026	-0.112	-1.444
361: HS174	7565	2972	1.948	-0.880	1.362	0.766	-2.118	-1.311	0.286
362: HS175	7565	2962	6.956	-1.717	4.113	1.255	-2.506	0.513	-1.277
363: HS176	7562	2952	4.714	-0.389	2.878	1.507	-1.872	-1.314	-1.177
364: HS177	7545	2975	2.057	-1.380	1.756	1.112	-2.043	-1.426	0.625
365: HS178	7565	2915	0.223	1.744	0.745	0.425	-0.961	-0.783	1.294
366: HS179	7566	2905	3.228	1.441	2.178	0.839	0.165	0.541	0.323
367: HS180	7570	2897	0.411	1.037	1.353	1.085	-0.243	-0.552	0.360
368: HS181	7570	2897	0.346	1.473	1.420	-0.232	1.387	-0.333	0.008
369: HS182	7572	2882	0.929	-0.473	1.205	-0.323	3.077	-1.266	1.828
370: HS183	7584	2875	0.685	1.084	1.520	0.720	0.972	-0.282	-0.267
371: HS184	7584	2875	0.236	0.089	1.134	0.705	1.069	-1.643	0.389
372: HS185	7600	2872	4.278	2.986	2.478	-0.654	1.439	-0.132	1.339
373: HS186	7604	2888	-0.145	2.516	0.138	0.104	0.780	-1.726	1.424
374: HS187	7613	2896	1.758	2.684	1.137	-0.088	-0.044	-2.385	2.205
375: HS190	7527	2887	1.560	0.680	0.072	0.497	-0.224	-0.542	-0.031
376: HS192	7537	2920	3.102	0.418	2.353	1.081	-2.281	0.231	-1.428
377: HS193	7533	2953	2.150	2.346	2.835	1.168	0.866	-0.306	0.037
378: HS194	7530	2966	0.977	0.211	1.641	0.419	1.508	0.215	0.647
379: HS195	7530	2966	2.875	-0.802	3.483	-1.180	-0.639	1.722	1.454
380: HS196	7527	3020	1.551	-1.366	2.130	0.248	-0.461	0.375	0.164
381: HS197	7480	3080	1.034	-0.687	1.020	1.107	-0.991	-0.590	-1.848
382: HS200	7528	3062	1.812	0.136	0.516	0.684	-1.878	-0.951	0.001
383: HS201	7540	3054	1.067	-0.916	1.175	0.496	-1.811	-0.274	-0.600
384: HS209	8566	5116	0.731	1.173	1.085	-0.706	0.478	1.702	-0.258
385: HS210	8556	5074	0.547	2.254	-0.991	1.087	0.100	0.486	0.264
386: HS211	8552	5062	1.307	1.807	-1.633	1.564	0.263	0.361	0.317
387: HS213	8530	5084	3.893	-1.328	-1.675	2.963	1.153	1.341	-0.457
388: HS215	8530	5084	5.996	-1.092	-2.747	4.653	1.820	0.650	-0.461
389: HS216	8530	5084	5.804	-1.784	-2.757	5.316	2.480	1.089	-0.359
390: HS221	8410	5127	4.993	0.716	-3.888	2.639	1.452	-0.014	0.366
391: HS223	8410	5127	1.560	0.714	-2.729	0.140	1.204	0.367	0.860
392: HS224	8410	5127	0.491	0.266	-1.132	1.279	0.319	-1.014	0.148
393: HS234	8228	5095	-1.363	0.918	-1.509	0.336	-0.252	-0.520	0.196
394: HS240	8134	5045	-1.196	2.241	0.031	0.431	0.228	0.385	-0.566
395: HS243	8125	5027	3.515	-1.215	1.060	2.640	0.289	3.045	-0.414
396: HS246	8570	5048	-0.992	0.325	-1.636	0.888	0.263	0.405	0.753
397: HS247	8570	5048	-0.147	0.348	1.280	0.126	-0.236	1.764	-1.435
398: HS248	8556	5032	-1.210	0.846	0.438	0.268	0.184	1.809	-0.980
399: HS249	8556	5032	-0.095	2.848	0.360	0.617	0.518	0.381	0.024
400: HS250	8548	5020	6.029	1.001	-2.899	4.424	2.748	1.307	0.932

Table 5 Component Scores of Chip Samples (9)

Sample No.	X	Y	Z(01)	Z(02)	Z(03)	Z(04)	Z(05)	Z(06)	Z(07)
401: HS251	8547	5018	-2.368	-0.964	-0.500	0.900	0.383	0.461	0.118
402: HS252	8547	5016	0.907	1.816	-0.565	1.216	0.621	0.095	-2.270
403: HS253	8547	5010	1.485	1.526	-4.242	1.083	1.100	1.765	-0.877
404: HS254	8547	5000	0.982	1.841	-1.305	0.478	-0.094	-0.217	0.609
405: HS255	8545	4990	0.125	2.705	-0.226	1.121	-0.564	-0.607	-0.529
406: HS256	8545	4990	-0.690	1.806	-0.060	0.337	0.635	1.379	-0.618
407: HS257	8543	4982	-0.273	0.573	-0.409	1.303	-0.152	-0.100	-1.621
408: HS258	8538	4963	-1.482	1.330	-1.664	0.271	0.830	0.077	-0.199
409: HS259	8538	4963	-1.123	1.551	0.651	0.612	0.179	1.092	-1.348
410: HS260	8530	4956	-1.542	0.043	-1.033	0.766	0.329	0.307	-0.616
411: HS261	8530	4956	1.191	0.599	-2.533	1.503	0.875	-0.445	0.232
412: HS262	8510	4953	0.465	0.881	-2.975	1.319	1.571	1.290	0.636
413: HS263	8564	4922	-1.992	-0.885	0.004	0.905	0.717	0.522	0.284
414: HS267	8604	4840	8.907	-1.244	-3.183	1.990	0.740	-0.518	-2.116
415: HS268	8604	4840	4.798	-2.386	-2.098	4.261	-0.046	-1.157	-1.204
416: HS283	8460	4846	0.828	1.976	0.676	1.460	0.179	0.138	-0.405
417: KB001	1253	4272	-1.653	-2.073	0.217	0.083	-0.075	1.153	-0.734
418: KB002	1315	4280	1.762	-3.068	-0.035	0.078	-1.618	0.484	0.360
419: KB003	1334	4265	4.482	-3.302	-1.267	-0.270	-2.340	-0.010	-0.502
420: KB004	1387	4300	-1.305	0.192	-1.307	-0.450	-0.396	-0.816	-0.274
421: KB008	1319	4101	-0.949	-1.573	-1.040	-0.148	0.790	0.048	-0.480
422: KB010	1209	4169	0.642	-1.464	-0.664	-0.942	-1.187	0.302	0.381
423: KB012	1143	3988	0.605	-1.116	-1.133	-1.969	-0.636	0.838	-0.130
424: KB014	1240	3980	-1.286	-0.044	-1.305	-0.291	0.560	0.794	-0.504
425: KB016	1280	3959	-1.699	-1.855	-0.245	-0.245	-0.247	0.292	-0.175
426: KB017	1564	4300	4.917	-2.654	-0.266	1.170	-0.663	0.003	1.095
427: KB018	1566	4301	0.578	0.999	-1.014	0.437	-0.660	-1.936	0.637
428: KB019	1457	4339	-0.018	-0.623	-0.701	-1.607	0.626	-0.032	-0.454
429: KB020	1460	4342	4.764	-2.580	1.347	1.597	1.996	-3.185	-1.588
430: KB021	1447	4312	2.231	-2.392	-0.527	-1.081	2.547	0.371	-0.166
431: KB022	1441	4288	-1.170	0.108	-1.355	-0.274	0.585	0.801	-0.974
432: KB025	1430	4230	-1.037	-0.457	-0.806	0.034	1.107	0.462	-1.065
433: KB026	1430	4165	1.874	-0.653	0.150	-0.126	0.776	-0.936	0.070
434: KB027	1480	4121	-0.389	-0.165	-0.993	-0.443	-0.460	0.130	0.195
435: KB029	1504	3964	-1.805	-0.099	-0.843	-0.200	-0.557	-1.084	-0.117
436: KB030	1503	3974	-1.991	-1.241	-0.099	-0.709	0.771	-0.074	-0.575
437: KB032	1490	4059	-1.419	-0.182	-0.644	-0.053	-0.322	-1.126	-0.173
438: KB033	1438	4059	6.569	-2.409	-3.553	-0.085	0.214	-1.553	-0.661
439: KB034	1479	4330	0.360	-0.716	-1.116	-0.894	-0.594	-0.668	-0.548
440: KB035	1480	4323	2.999	-1.263	0.617	0.161	-0.021	-1.745	0.084
441: KB040	1478	4304	0.474	-0.377	-0.502	-1.749	0.802	-0.545	-0.531
442: KB041	1477	4297	-0.927	0.488	-1.592	-0.467	0.419	0.556	-1.086
443: KB043	1476	4277	0.626	0.255	0.007	-1.986	2.664	-1.413	-0.200
444: KB044	1477	4269	0.633	0.158	-0.861	-1.767	1.003	-0.071	-0.262
445: KB045	1483	4257	-0.924	-0.702	0.001	0.117	0.576	1.071	-0.226
446: KB048	1443	4215	2.404	-2.099	-2.182	-0.131	-0.272	1.355	0.294
447: KB049	1447	4210	-0.768	-1.935	-1.288	0.978	-0.088	0.479	0.207
448: KB051	1451	4211	3.515	-1.592	-1.522	0.875	-0.314	1.110	1.747
449: KB052	1485	4203	-0.765	0.085	-0.998	-0.483	-0.429	-0.149	0.052
450: KB053	1485	4218	-0.403	-0.032	-0.230	0.291	-0.113	-0.765	0.517

Table 5 Component Scores of Chip Samples (10)

Sample No.	X	Y	Z(01)	Z(02)	Z(03)	Z(04)	Z(05)	Z(06)	Z(07)
451: KB054	1481	4223	2.070	-0.784	-1.532	-1.450	-0.662	0.155	0.501
452: KB056	1511	4282	6.782	-1.578	0.222	-2.776	1.376	1.101	1.141
453: KB057	1518	4298	2.592	-0.727	-1.220	-1.670	-1.261	-0.545	0.153
454: KB058	8222	2238	-0.330	1.158	-0.192	-0.542	-0.783	0.508	-1.597
455: KB059	8174	2342	-0.046	0.172	-0.415	-1.099	-1.036	-0.327	-0.617
456: KB060	7840	2176	-1.467	-0.773	-0.382	-0.742	-0.434	-0.331	-0.903
457: KB061	7840	2178	1.102	-0.451	2.257	-2.265	1.243	1.489	-1.169
458: KB062	7840	2178	0.867	-2.402	2.094	-2.228	0.211	0.985	0.870
459: KB063	7968	2696	-0.539	-0.435	-0.883	0.034	0.084	1.241	0.335
460: KB064	8072	2751	-0.962	-0.367	-0.236	-0.556	-0.360	0.429	0.871
461: KB065	8071	2751	-0.014	0.265	1.901	0.684	0.737	-0.566	-0.210
462: KB066	8130	2778	1.388	0.500	1.495	0.059	0.079	-0.278	1.484
463: KB067	8140	2783	-1.530	-0.904	0.014	-0.930	0.248	0.442	0.560
464: KB069	8079	3043	-1.268	1.299	-1.632	0.011	0.741	0.325	-0.122
465: KB071	8087	3032	-1.395	0.883	-1.906	-0.144	0.071	-0.326	0.012
466: KB072	8091	3029	5.789	1.014	1.493	-0.928	-0.558	-0.891	0.116
467: KB073	8091	3029	1.596	1.188	-1.054	-1.124	-1.193	-1.085	0.180
468: KB074	8119	3017	2.155	-0.011	1.494	1.586	0.350	0.109	-1.240
469: KB075	8126	3033	0.250	1.516	-0.549	-1.729	0.962	-0.866	1.052
470: KB076	8130	2988	0.397	1.186	-2.108	-0.255	-0.484	0.490	1.062
471: KB077	8200	3008	-1.196	-0.630	-0.562	-0.244	-0.001	0.662	0.264
472: KB078	8217	3013	-2.489	-0.966	1.091	0.661	0.402	-0.193	0.238
473: KB079	8288	3014	-2.551	-1.371	1.666	1.076	0.623	-0.604	0.554
474: KB080	8241	3017	-1.409	-0.574	0.315	1.094	0.360	-0.646	0.319
475: KB081	8248	3017	-0.611	-0.810	0.527	1.503	0.777	-0.859	0.020
476: KB082	8266	2986	-1.589	0.895	-1.159	0.230	0.150	-0.047	0.456
477: KB083	8266	2986	-2.054	-0.306	-0.660	0.205	0.133	0.120	0.346
478: KB085	8272	2987	1.496	0.022	2.057	0.352	0.328	1.594	-0.195
479: KB086	8289	2983	-0.969	-1.373	0.331	0.502	0.431	0.426	0.154
480: KB087	8304	2981	-1.071	1.799	0.089	0.601	0.145	-0.517	-0.015
481: KB088	8347	2953	0.107	-0.937	1.361	2.066	1.993	-1.870	0.904
482: KB089	8416	2989	-1.272	0.766	0.403	0.847	0.515	-0.956	0.292
483: KB090	8110	2986	-1.176	-0.406	-1.147	0.607	-0.192	-0.043	0.818
484: KB091	8113	2969	-1.370	-1.068	0.456	1.160	1.078	-0.269	0.352
485: KB092	7999	2936	3.435	-2.093	0.815	-0.282	-0.026	1.700	2.954
486: KB093	7990	2926	-1.247	-0.612	-1.206	-0.054	0.928	1.815	-0.181
487: KB094	7985	2891	0.819	-1.201	1.202	-1.117	0.302	-0.726	-0.473
488: KB095	8041	2867	0.441	-0.702	-1.291	-1.497	-0.021	1.829	-0.172
489: KB096	8055	2848	-1.294	-0.788	-1.096	-0.196	0.677	1.293	-0.176
490: KB098	8601	2856	-1.020	0.358	-1.125	-0.539	-0.500	-0.524	-0.038
491: KB104	8500	2762	0.792	0.865	0.023	-0.945	0.065	-0.029	1.080
492: KB105	8474	2760	0.513	1.946	0.208	-0.050	0.101	0.162	1.660
493: KB107	8406	2609	-0.899	0.093	-0.238	-0.474	0.173	0.004	0.061
494: KB108	8415	2603	-2.646	-0.205	-0.249	0.455	-0.162	-1.039	-0.767
495: KB109	8420	2599	-0.701	0.600	-1.230	-0.398	-0.252	-0.095	-0.303
496: KB110	8453	2583	-2.319	-0.839	-0.192	0.347	-0.007	-0.315	-0.333
497: KB112	8610	2463	1.632	0.293	-1.629	-1.590	-0.332	0.580	1.182
498: KB114	8637	2455	-2.340	-1.648	0.391	0.418	0.090	0.276	0.366
499: KB118	8400	2055	-0.638	0.550	-0.834	-0.574	-0.420	-0.580	-0.491
500: KB119	8425	2025	-0.434	1.592	-1.729	-0.557	-0.374	-0.782	-0.219

Table 5 Component Scores of Chip Samples (11)

Sample No.	X	Y	Z(01)	Z(02)	Z(03)	Z(04)	Z(05)	Z(06)	Z(07)
501: KB120	8466	2030	-0.915	-0.652	0.395	-0.659	-1.225	-1.274	-0.216
502: KB121	8500	2045	-0.883	1.855	-0.249	-0.478	-0.306	-0.940	0.790
503: KB122	8402	2108	-1.710	-0.267	0.493	-0.649	-0.648	-0.199	-1.707
504: KB124	8520	2209	-1.120	0.813	-1.110	-0.075	-0.224	-0.541	0.251
505: KB125	8536	2258	-1.773	0.780	-0.515	0.012	-0.001	-0.977	0.201
506: KB126	8555	2296	0.736	1.910	0.536	-0.621	-0.701	-0.648	-2.150
507: KB127	8598	2422	0.225	-1.044	-0.685	-0.635	-0.806	0.338	-0.191
508: KB130	8514	2049	-0.497	0.007	0.129	-0.106	-0.467	-0.004	0.004
509: KB131	8533	2055	-1.950	-1.162	-0.358	-0.219	-0.186	-0.224	-0.249
510: KB132	8554	2056	-2.725	-1.395	0.155	-0.121	0.198	-0.184	-0.534
511: KB134	8540	2033	-1.163	0.531	-1.297	-0.392	-0.135	-0.239	-0.693
512: KB135	8598	2054	-0.250	-1.379	-0.803	-1.385	-0.458	0.171	-0.468
513: KB136	8611	2063	-0.243	0.646	-0.370	-0.814	-1.018	-0.596	-1.192
514: KB137	8652	2057	0.525	1.345	0.567	-0.162	0.760	-1.001	-0.674
515: KB138	8676	2066	-1.473	-1.942	0.484	0.433	1.012	-0.537	-0.725
516: KB139	8675	2069	-0.855	-1.413	0.861	-0.378	0.934	-0.153	-1.121
517: KB141	8617	2133	-2.136	-0.678	-0.176	0.304	1.049	0.043	-0.147
518: KB142	8600	2161	-1.893	-0.759	-0.293	-0.195	-0.394	-0.675	-0.297
519: KB143	8618	2194	-1.112	0.478	-0.313	-0.756	-0.253	-0.529	0.197
520: KB143	8654	2199	-0.754	0.124	-0.120	-0.947	-0.768	0.138	-1.841
521: KB146	8627	2239	-0.808	-0.854	1.058	-0.175	0.394	-0.975	0.009
522: KB147	8618	2258	-2.489	-0.974	0.205	-0.059	0.094	-0.231	-0.137
523: KB149	7997	2865	-0.558	-1.642	0.589	-1.291	-1.066	-0.155	-0.336
524: KB154	7898	2782	-0.710	-1.360	0.441	0.735	-0.280	0.974	1.164
525: KB155	7924	2785	0.579	-1.648	-1.023	-0.855	-0.443	1.678	0.070
526: KB158	8031	2733	-0.972	0.460	-0.233	-0.608	-0.345	0.533	-1.137
527: KB159	8079	2727	-0.872	1.330	-1.482	-0.390	-0.114	-0.198	0.179
528: KB160	8158	2743	0.119	-0.003	-0.586	-1.310	0.244	0.075	0.435
529: KB161	8181	2745	-0.662	-0.758	0.997	-0.942	2.424	0.343	0.100
530: KB162	8340	2649	2.113	-1.079	-0.490	1.396	0.219	1.014	0.035
531: KB164	7931	2229	-2.228	-1.368	0.079	-0.094	-0.200	-0.033	-0.243
532: KB165	7925	2221	-2.836	-1.415	0.099	0.065	0.029	-0.311	-0.452
533: KB166	7920	2206	-2.247	-1.205	-0.077	0.167	-0.016	0.136	0.205
534: KB167	7920	2196	-1.352	-0.165	-0.471	-0.664	-0.401	-0.590	-1.115
535: KB168	7920	2190	-1.499	0.539	-0.754	-0.738	-0.452	-0.734	-0.037
536: KB169	7894	2191	-2.340	-1.134	-0.139	-0.196	0.182	0.076	-0.487
537: KB170	7878	2178	-0.805	-0.398	0.624	-0.097	0.144	1.426	-1.225
538: KB171	7877	2176	-2.242	-0.818	-0.110	-0.060	-0.207	-0.456	-0.250
539: KB172	7880	2170	-2.469	-0.831	-0.104	0.228	-0.086	-0.521	-0.481
540: KB173	7880	2163	-1.954	-0.395	-0.160	-0.950	0.903	-0.826	-0.625
541: KB174	7877	2155	0.742	0.878	0.307	-2.039	-1.461	0.477	-2.299
542: KB176	7906	2111	-0.809	-0.245	-0.279	-1.181	-0.097	0.492	0.321
543: KB177	7907	2105	-2.135	-0.813	0.000	-0.087	-0.137	-0.123	0.038
544: KB178	7908	2098	-1.509	-0.367	0.183	0.057	1.209	-1.199	-0.142
545: KB180	7922	2084	1.863	1.313	2.142	-0.187	0.197	-1.180	-0.475
546: KB181	7925	2083	2.160	2.257	2.211	0.064	0.517	0.145	-0.447
547: KB182	7947	2085	4.894	0.926	3.028	0.603	-0.121	-1.442	0.587
548: KB183	7953	2082	0.467	-1.486	0.288	-1.137	-0.038	0.506	1.321
549: KB184	7991	2115	-1.809	-1.125	0.181	0.032	0.730	-0.244	-0.206
550: KB185	8022	2140	2.030	1.514	1.767	-0.967	2.832	0.274	0.360

Table 5 Component Scores of Chip Samples (12)

Sample No.	X	Y	Z(01)	Z(02)	Z(03)	Z(04)	Z(05)	Z(06)	Z(07)
551: KB186	8029	2129	0.372	-0.992	1.378	-1.137	1.221	-0.748	0.678
552: KB187	8033	2119	1.005	1.522	2.039	0.080	1.664	-0.300	-0.388
553: KB188	8042	2108	-1.757	-1.211	0.779	0.203	-0.235	0.577	0.462
554: KB189	8054	2122	3.665	0.162	1.958	-1.040	-1.223	0.639	1.646
555: KB190	8065	2102	3.014	-0.609	2.841	0.979	-0.923	-1.818	-2.628
556: KB191	8099	2093	1.632	-0.884	1.093	-0.576	-1.034	0.317	-0.420
557: KB200	8290	2542	-1.879	-1.127	0.273	0.462	-0.260	-0.089	0.122
558: KB202	8299	2561	-0.692	-1.577	0.493	-1.150	-1.048	0.076	0.119
559: KB203	8299	2561	-1.710	0.980	0.329	0.169	-0.243	-1.175	0.561
560: KB204	8299	2561	-0.911	-0.229	0.340	-0.550	-0.980	-0.775	-0.532
561: KB205	8299	2561	0.024	0.326	0.217	-0.734	-1.162	-0.625	0.841
562: KB206	8299	2561	-0.318	-0.456	1.541	-0.170	-0.278	-0.054	-0.948
563: KB207	8299	2561	-0.907	-1.206	0.574	-0.491	-0.191	-0.498	0.029
564: KB208	8299	2561	-2.384	-0.565	-0.195	-0.037	-0.342	-1.150	-1.112
565: KB209	8316	2575	-1.038	-0.875	0.558	-0.026	1.783	-0.169	-1.219
566: KB210	8337	2572	-2.750	-1.377	0.238	0.242	0.106	-0.116	-0.137
567: KB211	8357	2566	-1.957	-0.790	-0.039	-0.122	-0.411	-0.346	0.379
568: KB212	8377	2571	-2.304	-1.392	0.634	0.349	-0.338	-0.152	0.255
569: KB213	8772	4933	0.556	-0.338	-1.631	1.501	1.031	1.812	-2.095
570: KB220	8755	5077	1.131	0.165	-0.048	-1.685	0.186	-1.129	0.295
571: KB221	8738	5097	0.009	0.507	-1.440	-0.736	-0.988	-0.260	0.120
572: KB226	8839	5140	-0.876	1.516	-1.800	-0.169	-0.350	-0.455	-0.033
573: KB228	8841	5113	-0.165	1.307	-0.954	-0.490	-0.557	-0.144	-1.033
574: KB229	8835	5097	0.456	0.797	0.875	0.299	1.175	-1.475	-2.021
575: KB230	8832	5066	0.102	0.717	-0.881	0.355	-0.222	0.967	-1.178
576: KB232	9018	5130	-2.627	0.114	0.290	0.499	0.717	-0.060	0.486
577: KB240	9064	4803	0.421	1.141	0.437	-1.312	0.794	-0.661	1.077
578: KB246	8965	4798	0.272	-1.407	-2.296	2.008	0.950	1.630	0.130
579: KS001	1340	4309	1.606	-2.536	-0.461	-2.199	-0.751	0.615	-1.062
580: KS002	1344	4315	1.006	-2.043	-0.846	-0.896	-1.421	-0.140	0.352
581: KS004	1428	4411	-1.385	0.291	-1.049	-0.364	-0.318	-0.488	0.079
582: KS007	1496	4449	5.778	-2.471	-1.706	4.214	0.908	0.984	0.743
583: KS008	1560	4491	0.524	0.481	-0.553	-1.108	0.133	0.247	0.371
584: KS010	1565	4510	4.350	-3.311	-3.120	1.234	-1.158	0.182	-0.354
585: KS011	1570	4521	7.450	-3.661	-3.451	1.623	-1.347	-0.102	-0.638
586: KS016	1252	4315	2.687	-2.319	-1.068	-1.962	-1.918	-0.227	-0.888
587: KS017	1252	4320	1.847	-0.281	-1.574	0.113	-0.131	-0.387	0.348
588: KS018	1254	4326	1.924	-0.699	-1.694	-0.956	-0.994	0.343	-0.129
589: KS020	1249	4398	-1.066	-0.141	-1.009	-0.185	-0.113	-0.108	-0.547
590: KS021	1251	4424	1.632	-3.089	-0.185	-1.482	-1.386	0.845	0.322
591: KS022	1248	4434	1.230	-2.674	-2.520	0.559	0.343	0.417	-0.111
592: KS026	1163	4457	-1.691	-1.861	-0.451	0.392	0.462	1.135	-0.543
593: KS029	1162	4362	-1.958	-1.865	-0.899	0.913	0.690	1.041	-0.084
594: KS031	1306	4127	1.810	-0.972	-1.120	-2.254	0.728	0.583	0.054
595: KS032	1301	4128	1.153	-1.760	0.511	-2.106	1.664	0.333	0.539
596: KS033	1297	4128	0.169	-1.698	0.619	-1.190	2.077	-0.085	0.353
597: KS034	1292	4126	2.665	-1.263	-0.678	-2.539	1.239	0.312	-0.052
598: KS035	1288	4124	2.893	-1.047	-0.802	-2.103	1.171	0.241	0.178
599: KS036	1284	4124	4.205	-0.621	0.292	-2.084	1.603	-0.492	0.771
600: KS037	1278	4125	3.564	-1.111	-1.101	-1.994	0.480	1.679	-1.026

Table 5 Component Scores of Chip Samples (13)

Sample No.	X	Y	Z(01)	Z(02)	Z(03)	Z(04)	Z(05)	Z(06)	Z(07)
601: KS038	1273	4125	3.689	-1.550	-1.675	-1.312	-0.859	0.710	-0.540
602: KS039	1268	4126	0.535	-0.597	-1.017	-2.197	-0.829	0.283	-0.567
603: KS040	1264	4127	2.315	-0.892	-0.434	-2.326	-0.901	0.808	-0.469
604: KS041	1259	4127	3.785	-0.992	-2.822	-1.303	-1.380	0.355	0.373
605: KS043	1247	4130	-1.046	-2.638	-0.102	-0.572	-0.450	0.801	-0.334
606: KS044	1242	4130	-0.056	-1.671	-0.675	-1.261	-0.703	0.591	-0.577
607: KS046	1231	4129	1.284	-0.921	-0.958	-0.395	-1.946	-1.197	-0.539
608: KS048	1216	4123	1.693	-1.299	-0.658	-1.647	-1.689	-0.012	1.338
609: KS049	1221	4113	1.321	-2.174	-0.519	-1.325	-0.518	0.431	-0.386
610: KS050	1227	4103	2.573	-1.083	-1.218	-1.617	-1.887	0.006	-0.359
611: KS051	1235	4096	2.423	-1.539	-1.116	-1.609	-1.366	-0.146	-0.398
612: KS052	1242	4091	1.076	-0.669	-0.875	-1.123	-1.072	0.604	0.571
613: KS053	1246	4081	0.126	0.045	-1.163	-1.435	-0.900	-0.795	-0.108
614: KS055	1262	4071	-0.750	-1.653	-0.942	-0.465	0.765	-0.359	-1.081
615: KS057	1267	4088	-0.076	-1.087	-0.821	-0.757	-1.021	0.257	1.045
616: KS058	1269	4096	1.118	-1.442	-0.458	-1.108	-0.084	-0.827	0.324
617: KS060	1277	4106	9.814	-3.821	0.861	-0.798	1.862	0.177	0.010
618: KS061	1227	4163	3.126	-1.049	-1.524	-1.073	-1.442	0.164	1.673
619: KS094	8260	3617	-0.014	1.444	-1.437	-0.911	0.253	-0.828	0.968
620: KS097	8257	3664	0.010	1.231	-1.106	-0.533	0.264	0.432	0.721
621: KS101	8294	3793	5.740	-0.954	-4.159	3.738	-0.521	0.167	1.019
622: KS108	8385	3316	1.107	-0.927	-2.703	0.864	-0.469	0.437	1.652
623: KS115	8034	3772	-0.617	1.459	1.127	0.753	-0.365	-0.123	2.265
624: KS116	8097	3733	0.014	2.282	-0.009	-0.089	-0.738	-1.441	1.135
625: KS131	8483	3060	-1.263	-1.443	0.235	-1.190	0.068	-0.492	-0.160
626: KS132	8425	3051	0.509	0.694	0.309	-0.191	2.497	-2.171	0.237
627: KS133	8405	3052	-0.748	0.800	0.897	1.256	0.777	-1.705	0.622
628: KS134	8380	3088	-1.967	-0.737	0.395	0.970	1.598	-0.813	-0.145
629: KS136	8370	3101	-1.863	-0.751	0.067	0.575	0.838	-0.801	-0.402
630: KS137	8370	3116	-2.133	0.786	-0.007	0.618	0.816	-1.747	-0.534
631: KS141	8271	3115	-0.679	-1.233	0.756	-0.485	0.213	0.094	0.762
632: KS147	7918	3087	-2.375	-1.395	0.048	0.231	0.194	0.167	0.066
633: KS148	7877	3080	0.264	-0.066	1.140	-1.019	-0.547	-0.811	0.400
634: KS150	7835	3088	-2.213	-0.974	-0.084	0.072	0.093	-0.025	-0.239
635: KS163	7793	3062	0.930	-1.480	0.708	0.617	0.007	1.049	1.328
636: KS164	7810	3034	0.963	-1.773	1.032	1.209	-0.129	1.158	1.515
637: KS165	7814	7127	0.378	-2.224	0.467	1.109	-0.855	0.824	1.018
638: KS166	7815	3021	3.880	-1.521	1.381	0.903	-0.087	1.867	0.691
639: KS167	7813	3015	4.307	-3.028	0.269	1.951	-0.369	0.227	0.455
640: KS168	7818	3008	2.477	-1.573	0.827	1.182	-1.167	0.870	1.467
641: KS172	7840	2964	0.055	0.059	0.671	0.668	-0.733	0.172	1.289
642: KS173	7840	2957	-0.407	-0.079	-1.289	0.100	-0.141	0.803	0.101
643: KS175	7930	2917	-2.063	-0.195	-0.457	0.217	-0.314	-0.729	-0.200
644: KS185	8002	2974	8.073	-2.068	0.311	1.281	0.036	0.199	1.517
645: KS186	8010	2975	9.592	-3.275	0.967	3.263	1.815	1.462	1.114
646: KS187	8007	2993	-1.159	-1.197	-0.757	0.290	-0.001	0.749	0.578
647: KS188	8008	3000	5.004	0.586	1.200	-0.177	-0.169	0.320	-0.722
648: KS189	7999	3023	-2.810	-1.850	0.811	0.531	0.098	0.078	0.331
649: KS191	8023	2953	1.702	-0.969	-0.015	1.057	-0.555	1.003	1.907
650: KS193	8114	2905	-0.323	-0.689	-0.193	-1.184	-1.471	-1.004	0.165

Table 5 Component Scores of Chip Samples (14)

Sample No.	X	Y	Z(01)	Z(02)	Z(03)	Z(04)	Z(05)	Z(06)	Z(07)
651: KS194	8124	2904	-2.071	0.323	-0.579	-0.070	-0.543	-1.668	-1.188
652: KS196	8229	2900	-1.293	-0.625	-0.811	0.456	0.080	0.388	0.305
653: KS197	8209	3026	-0.813	-0.603	2.190	1.583	0.419	0.479	-0.400
654: KS199	8214	3036	0.350	-0.439	1.655	-0.380	-1.247	0.651	-1.189
655: KS200	8223	3040	-2.226	-0.959	0.556	0.346	0.143	-0.112	0.359
656: KS201	8230	3043	-1.418	-1.540	0.878	0.899	0.644	-1.079	-0.028
657: KS202	8239	3044	-1.016	-0.905	0.479	0.133	-0.752	-0.011	1.056
658: KS203	8251	3047	-0.506	-0.654	0.815	0.120	0.067	-0.254	-0.211
659: KS204	8266	3047	0.825	-0.238	0.850	0.286	-1.553	-0.802	1.175
660: KS205	8271	3038	0.745	-1.027	2.313	2.552	0.626	-1.804	0.282
661: KS206	8264	3030	-1.090	0.296	0.482	0.412	-0.239	-0.140	1.119
662: KS209	8318	3004	-0.287	1.133	-0.164	0.059	0.232	-0.133	1.006
663: KS210	8318	3004	2.244	0.564	3.156	2.079	0.023	-0.308	-1.155
664: KS211	8316	2997	0.338	-0.053	-0.240	0.237	0.195	-0.913	0.362
665: KS212	8319	2990	-0.752	0.613	-0.479	0.281	0.152	-1.130	0.709
666: KS213	8348	2971	-2.269	-0.778	0.439	0.965	1.470	-0.470	-0.309
667: KS214	8336	2998	-1.712	-0.982	0.651	0.819	0.899	-0.518	0.430
668: KS215	8318	3020	0.623	-1.299	1.036	1.019	2.333	0.281	1.018
669: KS216	8313	3035	-2.192	-1.439	0.811	1.849	0.742	-0.427	0.192
670: KS217	8307	3054	1.266	0.920	1.343	0.911	1.108	-0.831	0.765
671: KS218	8270	3069	-1.079	-0.789	0.896	1.170	1.686	-0.481	0.491
672: KS222	9063	4517	-1.708	-0.764	0.511	-0.446	-0.854	-0.560	0.918
673: KS225	9080	4406	-0.964	-0.658	1.570	0.787	0.013	0.977	-0.950
674: KS227	9094	4372	0.692	-1.310	-0.406	-0.287	-1.756	-0.135	1.717
675: KS228	9096	4356	1.794	-0.825	1.533	0.869	-0.545	-1.587	-0.017
676: KS229	9091	4341	2.215	-0.159	0.226	0.115	-2.012	0.147	-0.568
677: KS233	9077	4173	-1.105	2.291	-0.014	0.074	-0.652	-0.695	-0.286
678: KS237	8939	4305	-0.342	0.676	0.887	0.752	-1.042	-0.309	0.383
679: KS238	8971	4366	-1.277	0.585	0.047	0.750	-0.504	-0.621	0.182
680: KS242	8519	4187	5.408	-0.290	0.762	1.069	-2.626	0.168	-0.331
681: KS245	8473	4242	-0.183	-2.096	0.112	1.069	-0.715	-0.231	-0.254
682: KS246	8564	4300	-1.278	1.015	-1.845	-0.146	-0.291	-0.629	0.191
683: KS248	8603	4470	-1.974	-0.720	0.305	0.572	-0.049	-0.109	0.847
684: KS249	8640	4481	-1.782	-1.126	0.372	0.003	0.343	-0.159	0.450
685: MH001	8162	1108	-0.771	1.776	0.126	0.714	-0.657	0.081	0.720
686: MH008	8330	1330	-0.345	0.348	-0.756	0.339	-0.552	0.259	1.146
687: MH009	8222	1452	-0.827	1.999	-1.025	-0.636	-0.855	-1.645	0.086
688: MH010	8150	1450	1.813	1.598	-1.111	-1.360	-2.226	-1.895	1.318
689: MH011	8150	1450	-0.537	1.722	-0.558	0.083	-0.997	-1.431	1.183
690: MT016	8648	2376	1.092	1.119	0.482	0.446	-1.071	0.327	-0.417
691: MT021	8720	2323	-1.127	-0.350	-0.467	-0.526	-0.097	-0.391	-0.530
692: MT023	8734	2342	-0.509	0.839	-0.065	-0.062	-0.841	-0.556	1.084
693: MT024	8752	2320	1.032	-0.881	2.250	-0.112	-1.884	-0.475	0.419
694: MT031	9052	2505	-0.459	0.985	-0.642	-0.848	-0.540	-0.172	-0.892
695: NY023	1663	4871	-1.785	-1.609	-0.217	0.302	-0.163	0.056	-0.079
696: NY025	1657	4826	-0.585	-1.359	-0.424	0.147	-0.374	0.684	0.574
697: NY026	1657	4812	-1.945	0.558	-1.270	0.165	-0.133	-0.826	-0.494
698: NY029	1631	4766	-3.296	-1.340	-0.128	0.536	0.573	0.187	-0.293
699: NY032	1383	4301	11.443	-2.649	-1.136	0.407	2.655	-4.285	-1.368
700: NY033	1395	4296	3.490	-1.223	-0.437	-0.268	1.999	-2.176	-0.220

Table 5 Component Scores of Chip Samples (15)

Sample No.	X	Y	Z(01)	Z(02)	Z(03)	Z(04)	Z(05)	Z(06)	Z(07)
701: NY034	1397	4286	0.431	-0.443	0.276	-0.312	0.910	-0.422	0.360
702: NY035	1400	4276	2.387	0.426	-0.003	-3.823	2.251	-0.297	1.256
703: NY036	1394	4268	1.589	-0.157	-0.519	-2.720	0.648	0.137	0.536
704: NY037	1394	4248	0.259	0.143	-0.211	-1.129	1.197	0.330	0.209
705: NY038	1393	4237	-0.149	0.707	-0.342	-1.737	2.166	-0.230	-0.020
706: NY039	1383	4227	1.382	-0.809	0.950	-3.178	2.054	-1.556	-0.177
707: NY040	1379	4205	1.471	-0.832	-0.706	-2.933	1.804	0.174	-0.049
708: NY041	1375	4199	-0.447	-0.101	-0.663	-1.073	-0.153	-0.890	-0.864
709: NY043	1357	4187	0.376	-0.054	0.332	-3.376	1.230	-1.744	-0.323
710: NY044	1355	4182	0.269	-1.178	0.269	-1.297	0.098	-0.456	0.276
711: NY045	1350	4180	1.383	-1.146	-0.860	-2.441	1.888	0.194	-0.280
712: NY052	7602	3840	-0.321	2.156	0.111	-0.870	-0.641	-0.436	0.007
713: NY053	7602	3844	-0.684	1.153	0.337	0.611	-0.246	0.683	-0.290
714: NY057	7490	3783	-0.993	1.341	0.443	-0.025	-0.853	-0.985	0.626
715: NY058	7396	3752	-0.746	1.702	-1.119	0.580	-0.402	-0.164	0.102
716: NY059	7355	3756	4.448	-1.155	2.015	1.412	-0.759	-0.682	0.614
717: NY060	7354	3756	-0.096	0.281	1.486	1.299	0.946	-1.037	0.999
718: NY061	7348	3766	0.651	-0.216	0.702	1.787	0.086	-0.609	0.818
719: NY067	7422	3423	-1.493	1.055	-1.445	0.077	0.101	-0.285	-0.195
720: NY070	7434	3417	-1.368	1.419	-1.348	0.020	0.290	-0.133	-0.310
721: NY071	7472	3412	-1.511	0.496	-0.964	-0.104	-0.336	-0.615	-0.240
722: NY072	7812	3123	-2.428	-1.437	-0.072	-0.016	0.324	0.292	-0.800
723: NY073	7806	3122	-1.877	1.233	0.415	0.181	-0.246	-0.082	-1.860
724: NY074	7807	3124	-1.423	1.116	-0.728	0.238	0.155	0.522	-0.969
725: NY075	7789	3123	-1.127	0.674	0.808	-0.180	-0.495	0.577	-2.626
726: NY076	7806	3146	-1.276	2.942	0.239	0.073	0.018	-1.347	0.809
727: NY077	7806	3144	-0.581	1.845	-0.143	-0.440	-0.236	-0.513	0.311
728: NY078	7798	3161	0.194	2.783	1.727	-0.483	-0.274	0.798	-0.596
729: NY079	7794	3165	1.310	0.102	-0.536	-0.254	-0.353	2.091	0.819
730: NY080	7792	3167	-1.131	2.186	-1.315	-0.124	0.111	-0.134	-0.233
731: NY081	7786	3173	-0.463	2.923	0.687	0.100	0.416	-0.455	-0.394
732: NY082	7742	3207	-1.648	1.297	-0.482	-0.044	0.677	-0.140	0.333
733: NY083	7723	3219	-0.418	1.980	-0.109	0.550	0.046	0.359	0.101
734: NY084	7706	3223	0.056	3.701	0.770	-0.294	-0.569	0.211	-0.047
735: NY085	7686	3247	-0.720	2.531	-0.347	0.295	-0.284	0.600	0.112
736: NY086	7678	3241	-0.818	2.831	0.091	0.012	0.042	-0.465	0.356
737: NY087	7657	3234	-1.533	0.459	-0.829	0.274	0.485	0.725	0.844
738: NY088	7653	3234	0.403	2.034	0.825	-0.459	-0.942	0.368	0.109
739: NY091	7540	3233	-0.900	1.574	-1.256	-0.206	0.002	-0.156	-0.291
740: NY092	8000	3150	-2.142	-1.206	0.797	0.241	-0.116	-0.019	0.282
741: NY093	7976	3163	0.055	-0.552	3.135	-0.184	-0.699	1.565	-0.242
742: NY094	7965	3157	-0.540	-0.759	2.666	-0.091	-1.073	1.060	-0.891
743: NY095	7888	3200	-3.198	-1.217	0.280	0.276	0.341	-0.194	-0.519
744: NY096	7880	3217	-3.259	-0.810	0.224	0.830	0.233	-0.523	-0.109
745: NY097	7863	3221	-3.329	-1.240	0.340	0.681	0.420	-0.051	-0.085
746: NY098	7850	3207	-2.587	-1.586	0.466	0.305	0.143	0.082	0.027
747: NY100	7805	3226	0.096	1.983	1.150	0.510	1.990	-0.276	0.182
748: NY101	7789	3225	0.245	3.181	0.475	0.231	-0.293	0.626	-0.486
749: NY102	7793	3232	0.231	3.990	2.060	1.172	0.036	0.292	1.375
750: NY104	7769	3290	-1.356	2.370	0.850	0.135	0.011	0.739	-0.691

Table 5 Component Scores of Chip Samples (16)

Sample No.	X	Y	Z(01)	Z(02)	Z(03)	Z(04)	Z(05)	Z(06)	Z(07)
751: NY105	7761	3290	-2.448	-0.618	1.881	0.750	1.127	-0.477	1.085
752: NY106	7748	3242	-1.444	1.069	1.037	1.336	0.627	-1.002	0.384
753: NY107	7743	3217	-2.153	-0.660	0.694	-0.074	1.328	0.230	0.166
754: NY108	7742	3190	-0.645	2.507	-0.031	0.279	0.579	0.583	0.606
755: NY109	7735	3185	-3.188	0.160	-0.045	0.369	0.392	-0.928	-0.342
756: NY111	7673	3144	-1.216	0.358	-0.265	-0.450	-0.233	-0.771	-0.654
757: NY115	7508	2838	-0.361	1.014	-0.482	0.230	-0.147	0.592	0.409
758: NY116	7493	2850	0.897	0.281	0.297	0.957	0.527	-0.437	1.251
759: NY117	7480	2868	-1.298	0.882	1.095	0.288	-0.631	-1.008	1.708
760: NY119	7463	2891	0.054	-0.688	-0.453	-0.244	-0.546	0.827	-0.055
761: NY120	7470	2908	-0.918	0.502	-0.125	-0.018	-0.592	0.341	-0.538
762: NY121	7467	2925	-0.782	1.205	-0.555	0.340	-0.572	-0.361	0.275
763: NY123	7452	2947	-0.244	0.936	-1.062	0.454	0.564	-0.002	0.054
764: NY124	7436	2955	-1.673	1.161	0.541	0.306	-0.122	0.665	-0.221
765: NY126	7434	2989	-1.622	0.906	-0.998	0.075	-0.232	-0.596	0.456
766: NY127	7425	2999	-1.874	1.397	-1.067	0.215	0.185	-0.587	-0.077
767: NY128	7419	3008	1.040	2.745	2.468	0.403	1.483	1.029	-1.799
768: NY129	7416	3009	0.507	2.198	0.417	0.436	0.394	-0.412	0.195
769: NY130	7423	3023	0.553	2.451	1.794	0.912	-0.504	1.740	-0.099
770: NY132	7377	3054	-1.022	-0.501	1.008	0.749	-0.856	-0.851	0.504
771: NY133	7375	3053	-0.055	0.714	1.395	-0.596	-1.252	-0.513	-1.198
772: NY139	7954	3179	-2.249	-0.939	0.012	-0.110	-0.157	-0.559	-0.669
773: NY140	8046	3162	-1.209	0.563	-1.276	0.367	0.166	-0.171	-0.710
774: NY141	7954	3179	-1.432	-1.206	-0.341	-0.508	0.991	0.620	0.102
775: NY144	8130	4393	-1.059	1.632	-1.128	0.529	-0.318	-0.641	0.986
776: NY145	8148	4383	-0.486	1.945	-0.892	0.085	0.132	-0.745	1.056
777: NY150	8184	4417	0.392	0.459	-0.791	-0.269	-1.085	-0.653	0.357
778: NY159	8221	4533	-1.550	2.111	-0.256	0.315	-0.409	-1.377	0.883
779: NY165	8122	4704	-1.543	1.642	-1.300	0.192	-0.335	-0.821	0.788
780: NY166	8127	4700	-1.222	0.957	-0.990	0.228	-0.256	-0.074	1.008
781: NY168	8166	4642	4.682	-2.351	1.975	1.844	0.298	-2.398	-0.509
782: NY169	8169	4647	6.389	-2.488	0.450	0.616	-0.658	-1.301	-0.733
783: NY170	8177	4653	4.043	-1.622	1.527	1.444	0.486	-1.720	-0.889
784: NY172	8146	4546	-1.270	1.008	-1.409	-0.079	-0.469	-0.944	0.230
785: NY173	8154	4523	-0.535	1.369	-1.205	-0.053	0.122	0.277	0.205
786: SR002	1331	4395	1.960	-1.988	-0.125	0.785	-1.480	-0.316	-0.049
787: SR010	1132	4279	-2.107	-1.536	-0.368	0.426	0.234	0.566	0.047
788: SR012	1116	4232	0.362	-0.590	-0.964	-0.302	-0.678	0.616	0.816
789: SR013	1110	4211	-2.746	-1.237	-0.228	0.597	0.146	-0.113	-0.174
790: SR015	1100	4118	-0.612	-1.226	-1.013	0.338	0.382	0.353	-1.908
791: SR018	1129	4132	1.336	-0.916	-0.222	0.570	0.219	-0.932	-0.321
792: SR020	1154	4144	-0.468	-1.746	-0.409	-0.839	-0.316	0.873	-0.857
793: SR023	1273	4223	1.228	-0.900	-0.836	-1.391	-1.869	-0.160	0.142
794: SR025	1281	4220	1.702	-1.252	-1.396	-1.477	-1.520	0.741	0.603
795: SR026	1283	4215	0.326	-1.740	-0.535	-0.886	-1.228	0.287	0.346
796: SR027	1290	4210	-0.775	-1.985	-0.883	-0.576	0.532	1.894	-1.152
797: SR029	1306	4210	0.185	-1.926	-0.149	-0.511	-0.971	0.573	0.807
798: SR031	1327	4212	-1.482	-0.793	-0.620	0.086	0.516	0.897	-0.363
799: SR033	1350	4213	3.492	-2.096	-0.137	0.141	-3.113	-1.777	-0.750
800: SR034	1361	4214	2.462	-1.520	-0.817	-0.907	-2.341	-1.090	-0.481

Table 5 Component Scores of Chip Samples (17)

Sample No.	X	Y	Z(01)	Z(02)	Z(03)	Z(04)	Z(05)	Z(06)	Z(07)
801: SR035	1371	4217	1.061	-2.329	-0.266	-0.736	-1.532	0.808	0.883
802: SR036	1378	4211	-0.298	-1.313	2.403	-0.843	1.092	0.194	1.407
803: SR039	1304	4156	9.059	0.312	-3.408	-0.272	-0.900	-1.294	1.730
804: SR040	1303	4161	1.388	-0.891	-1.447	-0.804	-0.941	0.340	0.649
805: SR044	1308	4178	3.593	-1.603	-1.262	-0.422	-1.495	0.426	-0.383
806: SR045	1310	4183	2.874	-2.069	-1.139	-0.848	-1.849	-0.528	-0.649
807: SR066	8491	3274	-1.420	-1.239	-0.405	-0.204	-0.892	-0.064	-0.321
808: SR070	8365	3128	-2.010	-1.226	-0.371	0.148	0.033	0.228	0.109
809: SR071	8374	3134	-1.492	-0.056	-0.280	-0.102	-0.118	-0.165	0.583
810: SR073	8386	3142	-1.462	-0.699	0.025	-0.891	1.120	0.122	0.222
811: SR074	8389	3145	-2.147	0.722	0.321	0.397	-0.051	-1.192	0.463
812: SR089	8112	3547	1.053	-0.859	-2.939	1.880	0.238	0.739	1.253
813: SR098	7678	2998	0.580	2.861	1.443	0.377	0.051	0.349	0.410
814: SR100	7686	2963	1.690	1.400	2.207	0.001	-1.515	0.821	0.053
815: SR110	7751	2868	-1.185	-0.983	-0.886	-0.021	0.136	0.704	-0.490
816: SR120	8216	2826	1.788	-0.343	1.505	-0.056	-0.430	0.115	0.917
817: SR121	8223	2825	6.617	-1.656	-1.984	1.132	-1.565	-0.855	0.368
818: SR124	8412	2849	-0.041	-0.298	-1.524	-0.466	-0.540	-0.138	0.001
819: SR125	8532	2877	-1.387	-1.400	-0.178	0.061	-0.391	0.179	0.476
820: SR127	8539	2941	-1.027	-1.312	1.016	0.980	1.203	-1.636	-0.460
821: SR128	8499	3010	-1.630	-0.462	0.390	0.128	-0.119	-0.839	-0.552
822: SR137	8716	4232	-1.966	-1.497	0.305	-0.026	-0.414	-0.440	0.349
823: SR138	8721	4346	-1.418	-1.874	0.646	-0.497	0.187	-0.180	1.014
824: SR139	8766	4408	-2.023	-1.706	1.051	-0.208	0.648	-0.190	0.679
825: SR144	8751	4307	-0.655	-2.291	0.631	-0.191	-0.971	0.096	1.010
826: SR155	8784	4563	-1.718	-1.832	0.273	0.122	-0.299	0.013	0.267
827: SR181	7150	2917	-1.517	-1.452	1.475	0.019	-0.480	0.707	-0.450
828: TS002	1908	4292	-2.801	-1.754	-0.145	0.385	0.217	0.285	0.298
829: TS003	1955	4305	-1.128	-0.845	-1.438	0.461	1.025	0.228	-0.887
830: TS006	2044	4365	-2.162	-1.628	-0.374	0.501	0.105	0.355	0.070
831: TS007	1767	4018	-3.087	-1.431	0.184	1.009	0.294	0.054	0.160
832: TS013	1781	4136	-1.752	-0.979	0.112	1.198	0.236	0.756	0.468
833: TS023	1382	4129	1.027	-0.765	-2.054	-0.104	-0.437	0.528	0.869
834: TS024	1374	4132	0.468	-1.277	-1.098	-0.740	-0.466	0.897	1.270
835: TS025	1417	4153	1.083	-1.499	0.060	0.757	0.999	-1.241	-0.800
836: TS026	1418	4161	1.485	-0.639	-1.095	0.879	0.623	-0.804	-0.363
837: TS027	1420	4164	-0.110	-0.219	-0.922	-0.651	-0.760	0.146	0.247
838: TS028	1420	4168	1.625	-1.953	-0.951	-0.911	-1.646	0.242	-0.062
839: TS029	1392	4186	2.255	-2.238	-1.133	-0.880	-1.104	1.256	1.445
840: TS030	1383	4174	-1.888	-1.725	-0.039	0.191	-0.239	0.172	0.369
841: TS031	1363	4165	-0.091	-1.974	0.063	-1.859	0.036	0.064	-0.589
842: TS032	1358	4157	0.713	-1.036	0.592	0.127	-1.069	0.493	1.446
843: TS033	1353	4146	2.655	-2.800	-0.588	-1.606	0.230	2.033	1.614
844: TS034	1350	4138	4.528	-2.305	-2.043	-2.205	0.204	1.057	-0.736
845: TS035	1342	4133	0.871	-2.382	-0.498	-0.652	-1.311	0.719	0.731
846: TS036	1338	4122	2.356	-2.016	0.831	-0.711	0.483	0.635	0.798
847: TS037	1332	4112	3.309	-2.169	-1.073	-2.762	0.087	0.162	0.297
848: TS038	1385	4046	0.343	-1.133	-1.149	-0.770	-0.331	0.722	-0.763
849: TS039	1384	4055	-0.676	-0.170	-0.864	-0.856	-0.717	-0.705	-0.400
850: TS040	1385	4070	2.228	-1.004	-2.467	-0.344	-0.961	0.299	0.762

Table 5 Component Scores of Chip Samples (18)

Sample No.	X	Y	Z(01)	Z(02)	Z(03)	Z(04)	Z(05)	Z(06)	Z(07)
851: TS041	1413	4179	1.799	-0.595	-1.319	0.069	-0.346	-0.219	-0.935
852: TS045	7395	2336	-0.113	1.561	-0.967	-1.288	1.003	-0.072	0.341
853: TS046	7463	2504	-0.495	0.097	0.300	-0.943	-0.702	0.818	-1.706
854: TS047	7420	2552	-0.725	0.746	0.007	0.306	0.316	-1.771	0.187
855: TS048	7461	2555	-0.034	0.820	-1.085	1.271	-0.039	0.977	0.574
856: TS050	7479	2562	-0.066	0.732	1.464	-0.512	-0.697	0.384	0.158
857: TS051	7328	2007	-1.038	1.014	-1.531	0.067	0.164	0.124	-0.143
858: TS052	7326	2010	-0.135	1.454	-0.923	0.225	0.287	-0.492	0.311
859: TS053	7347	2016	-2.218	0.813	-1.014	0.261	0.023	-0.837	-0.034
860: TS058	7292	2115	-0.694	2.375	-0.129	-0.286	-0.103	1.153	-1.808
861: TS059	7284	2129	-0.732	1.548	-0.015	0.201	0.272	1.779	-1.491
862: TS061	7270	2140	-2.012	0.103	-0.934	0.070	0.461	0.133	-0.805
863: TS063	7232	2177	-2.177	-1.545	0.193	0.039	-0.193	-0.321	-0.342
864: TS065	7225	2200	-2.143	-1.358	0.201	0.270	0.044	0.158	-0.097
865: TS066	7212	2206	-1.414	-2.002	1.263	0.036	-0.620	0.199	0.637
866: TS067	7185	2228	-2.384	-1.536	0.369	-0.102	-0.025	-0.059	-0.326
867: TS069	7255	2252	-0.422	0.028	0.582	-0.244	-0.158	0.267	-0.616
868: TS070	7270	2301	-0.476	1.583	0.428	-0.302	-0.327	0.699	-1.745
869: TS071	7272	2318	-1.973	-1.730	1.654	-0.481	-0.627	0.195	-0.586
870: TS072	7267	2335	-2.044	-1.402	0.773	0.352	-0.018	0.578	-0.377
871: TS074	7343	2314	-1.536	0.083	0.671	0.430	0.256	1.006	-0.074
872: TS075	7372	2291	-2.980	-0.959	0.523	0.515	0.425	0.121	-0.116
873: TS077	7695	2019	-1.482	1.793	-0.737	-0.288	-0.411	-1.021	0.979
874: TS081	7615	2040	-2.291	-1.006	0.462	1.119	0.041	0.658	0.268
875: TS083	7600	2068	-1.453	1.181	-1.111	0.160	0.235	-0.473	-0.217
876: TS085	7537	2082	-1.216	1.210	-1.509	-0.005	0.016	-0.126	-0.150
877: TS087	7644	2066	-1.828	0.052	-0.665	0.191	-0.131	-0.632	-0.527
878: TS088	7649	2071	1.056	1.701	1.734	-0.497	1.025	-0.223	-0.671
879: TS090	7680	2130	-2.123	0.336	-0.879	0.460	-0.124	-0.772	-0.177
880: TS091	7676	2135	-1.270	-1.073	-0.141	0.031	-0.454	0.132	0.255
881: TS092	7662	2150	-2.199	0.665	-0.813	0.689	-0.340	-1.206	-0.031
882: TS094	7567	2150	-1.636	0.801	-0.399	0.308	-0.272	-0.517	0.372
883: TS095	7513	2119	-1.585	-1.322	-0.212	-1.083	-0.910	-1.595	-1.289
884: TS096	7449	2081	-2.005	0.453	-1.077	0.190	-0.192	-1.004	-0.463
885: TS098	7670	2094	-0.332	0.166	-0.113	-0.966	-1.050	-0.017	0.146
886: TS099	7503	2815	1.574	0.391	2.487	0.929	-0.098	0.361	-0.471
887: TS100	7484	2831	0.973	1.710	0.969	0.570	0.373	0.610	0.163
888: TS101	7464	2839	1.471	0.165	0.538	0.786	-1.451	-0.553	0.819
889: TS103	7423	2854	-0.913	0.550	1.305	0.644	-0.445	0.873	-0.107
890: TS104	7420	2840	0.209	1.911	0.931	0.227	-1.125	0.620	0.035
891: TS105	7406	2875	0.263	0.442	-0.139	-1.219	0.732	0.220	0.962
892: TS106	7346	2868	-0.467	1.162	-0.755	0.533	0.540	-0.485	0.115
893: TS107	7257	2872	-0.367	1.123	0.092	0.599	-0.320	1.357	-0.817
894: TS108	7228	2884	0.526	1.166	1.080	-0.045	-0.890	1.498	0.656
895: TS109	7234	2880	0.926	1.094	1.822	-0.042	-0.157	2.190	-0.825
896: TS110	7213	2920	0.672	2.559	0.907	-0.221	1.523	1.663	0.141
897: TS112	7193	2929	1.211	-0.445	0.986	0.476	-0.707	0.124	0.483
898: TS113	7116	2835	0.754	1.823	0.098	0.719	-0.593	0.322	0.246
899: TS114	7117	2821	-0.164	0.955	1.811	0.190	1.034	2.487	-0.583
900: TS115	7518	2804	-0.385	1.163	0.515	0.270	0.728	0.610	0.275

Table 5 Component Scores of Chip Samples (19)

Sample No.	X	Y	Z(01)	Z(02)	Z(03)	Z(04)	Z(05)	Z(06)	Z(07)
901: TS116	7539	2773	0.813	2.581	0.019	0.752	0.475	0.764	0.876
902: TS117	7578	2762	-1.687	1.400	0.289	0.591	0.520	-0.706	0.986
903: TS118	7641	2743	-0.358	1.065	0.186	-0.392	-0.540	-0.344	1.206
904: TS124	7692	2854	-0.285	2.553	-0.734	0.417	-0.340	0.657	-0.042
905: TS125	7684	2883	0.218	1.364	-0.157	0.585	-0.063	-0.512	1.404
906: TS126	7680	2887	6.837	-0.070	-0.833	3.210	-0.385	2.871	0.670
907: TS127	7802	2698	-2.786	-0.833	-0.222	0.609	0.512	0.269	0.227
908: TS130	7825	2851	-1.010	0.301	-0.537	-1.057	-0.699	-0.735	0.190
909: TS131	7810	2650	-1.393	1.419	-1.297	-0.310	0.021	-0.228	-0.257
910: TS136	7558	2322	-2.076	0.266	0.599	0.725	-0.048	-0.550	0.003
911: TS137	7569	2328	-1.746	-0.562	0.530	0.032	-0.044	0.243	-0.151
912: TS138	7552	2310	0.437	0.352	2.652	0.010	-1.348	0.272	-1.466
913: TS139	7577	2288	-0.820	1.554	-1.059	0.097	0.024	0.719	-0.939
914: TS140	7576	2266	-3.023	-0.225	-0.253	0.440	0.258	-0.574	-0.317
915: TS141	7590	2260	-2.719	-0.298	-0.302	0.071	0.022	-0.462	-0.399
916: TS142	7593	2278	-2.058	0.831	0.746	0.135	-0.378	-0.307	-0.899
917: TS143	7608	2315	0.084	0.040	1.929	-0.395	-0.957	1.821	-1.324
918: TS145	7539	2300	-3.280	-0.833	0.044	0.550	0.225	-0.529	-0.291
919: TS146	7630	2349	-0.618	-0.802	1.934	0.818	-0.803	0.648	1.328
920: TS147	7636	2365	0.498	0.418	2.514	0.863	-1.127	2.376	-0.462
921: TS148	7668	2340	0.096	0.336	2.181	-0.590	0.689	0.250	1.549
922: TS149	7677	2413	0.988	0.991	3.070	-0.213	-0.427	1.965	0.043
923: TS150	7701	2443	-1.813	0.260	0.502	0.233	-0.364	-0.641	0.187
924: TS151	7775	2433	-1.738	0.026	0.615	-0.003	-0.038	0.841	-1.589
925: TS152	7800	2418	-2.724	-0.987	-0.004	0.381	-0.006	-0.514	-0.543
926: TS153	7500	2804	-0.685	1.047	-0.507	0.635	-0.125	0.436	1.249
927: TS154	7500	2798	0.507	1.283	0.344	0.188	-0.538	1.816	0.350
928: TS155	7500	2792	0.399	1.787	0.242	1.162	1.009	1.055	-0.457
929: TS156	7511	2776	6.735	-0.268	4.707	2.942	-1.354	-1.070	-2.972
930: TS158	7517	2763	1.755	2.258	1.047	0.232	1.369	0.914	0.232
931: TS159	7516	2753	3.747	3.182	3.021	-1.782	2.621	-0.109	1.688
932: TS160	7512	2745	2.907	1.832	1.685	-0.688	3.160	-0.004	-0.315
933: TS161	7517	2733	4.945	1.456	3.638	0.340	0.917	-0.473	0.523
934: TS162	7528	2714	2.158	2.794	1.380	0.259	0.468	0.495	0.620
935: TS163	7522	2707	2.126	2.217	1.776	-0.716	2.127	-1.403	0.295
936: TS164	7535	2687	2.752	2.654	1.451	-0.234	1.083	-0.203	1.014
937: TS165	7534	2684	0.983	3.472	0.092	-0.006	-0.438	1.499	0.135
938: TS166	7537	2670	1.010	1.909	-0.220	-0.340	-0.100	0.216	0.289
939: TS167	7535	2624	0.672	2.865	0.263	0.413	-0.525	1.220	0.763
940: TS168	7490	2798	1.320	0.997	0.020	0.256	-0.927	0.575	0.131
941: TS169	7480	2790	2.070	1.726	1.868	-0.192	0.582	0.035	-0.204
942: TS170	7462	2785	-26.900	-12.646	0.765	3.712	-2.604	3.819	2.597
943: TS171	7452	2776	0.931	1.789	0.809	-1.189	0.766	0.710	-0.058
944: TS172	7436	2769	0.424	2.069	0.347	-0.629	-1.290	-1.084	2.045
945: TS173	7414	2750	1.451	1.334	1.956	0.509	-0.856	1.042	-0.820
946: TS174	7390	2725	-0.614	0.468	0.700	-0.613	1.068	1.314	-1.599
947: TS175	7373	2721	3.590	0.674	2.895	0.073	1.529	0.600	-1.058
948: TS176	7367	2717	3.707	1.959	1.904	-0.576	1.672	-0.133	-1.239
949: TS177	7351	2697	-0.044	0.410	0.965	-0.566	0.155	0.666	-0.455
950: TS178	7323	2688	0.920	1.968	0.938	-0.180	-0.989	1.702	-0.250

Table 5 Component Scores of Chip Samples (20)

Sample No.	X	Y	Z(01)	Z(02)	Z(03)	Z(04)	Z(05)	Z(06)	Z(07)
951: TS180	7281	2681	-1.105	0.360	0.649	0.512	-0.277	0.665	-0.669
952: TS181	7315	2663	0.771	2.750	0.491	0.880	-1.069	1.177	0.115
953: TS182	7320	2643	0.481	0.990	0.838	0.487	-0.948	0.313	0
954: TS183	7353	2630	-0.124	3.983	0.849	0.336	-0.274	1.642	-0.730
955: TS184	7385	2580	0.707	2.243	1.045	0.242	-1.280	1.120	-0.571
956: TS185	7368	2565	-0.316	2.249	-0.605	0.242	-0.217	0.508	-0.005
957: TS186	7474	2490	-1.373	0.000	-0.312	-0.490	-0.187	0.389	-1.421
958: TS187	7514	2477	-1.867	0.890	0.377	0.435	0.161	0.027	-0.424
959: TS189	7600	2484	-1.765	0.349	0.353	0.782	0.325	1.121	-0.326
960: TS191	7622	2511	-1.414	0.772	0.260	0.282	0.320	0.889	-1.048
961: TS192	7640	2544	-1.604	-0.263	0.986	-0.025	-0.453	0.074	-1.222
962: TS195	7620	2431	-0.812	1.942	0.988	-0.176	0.889	1.948	-2.383
963: TS196	7555	2417	-0.542	1.024	-0.853	-0.742	0.683	1.023	-0.629
964: TS198	7482	2444	-1.544	0.661	-0.614	-0.455	0.163	-0.062	-0.358
965: TS199	7135	2787	2.214	1.808	0.535	1.391	-0.925	-0.935	-0.193
966: TS201	7123	2769	1.037	2.441	1.644	-0.188	-0.130	1.290	-0.147
967: TS202	7110	2755	-1.074	2.820	-0.174	0.635	-0.112	0.288	0.067
968: TS203	7080	2733	-0.181	3.106	0.995	0.686	0.278	0.947	-0.785
969: TS204	7075	2690	-1.879	1.213	1.006	0.867	0.552	1.001	0.322
970: TS205	7109	2652	-1.375	2.920	-0.040	0.706	-0.108	-0.341	0.704
971: TS206	7167	2644	-0.828	3.594	0.355	0.294	0.281	1.301	-1.014
972: TS207	7188	2668	-0.567	3.306	0.141	0.724	-0.030	1.066	-0.893
973: TS209	7247	2669	-0.025	3.194	0.091	0.206	0.615	1.103	0.300
974: TS210	7257	2615	0.050	1.235	1.124	-0.901	3.009	1.478	-0.375
975: TS211	7250	2564	0.022	-0.834	1.190	-0.360	-1.234	0.375	-0.950
976: TS212	7243	2565	1.732	-1.186	1.659	-0.887	-1.198	2.163	0.154
977: TS213	7286	2540	1.517	1.894	1.416	-0.848	-1.219	0.843	-0.001
978: TS214	7286	2528	-0.597	-1.970	0.522	0.404	-0.141	-0.097	0.185
979: TS215	7337	2580	-2.080	1.325	-1.058	-0.148	0.076	-0.731	0.324
980: TS217	7211	2702	-0.199	3.383	-0.517	0.040	0.077	0.773	-1.037
981: TS219	7232	2806	-0.684	0.331	-0.553	-0.440	0.486	0.189	0.714
982: TS220	7256	2764	0.667	2.662	0.890	0.165	-0.798	1.298	0.029
983: TS221	7264	2733	-0.585	1.681	0.566	-0.137	-0.362	0.329	0.163
984: TS222	7300	2738	-0.449	-0.963	1.429	-0.254	0.584	0.478	1.181
985: TS223	7300	2736	-1.391	-1.522	0.759	0.014	0.691	0.399	0.581
986: TS224	7274	2765	-0.188	1.718	0.225	0.051	-0.159	2.277	-1.478
987: TS225	7193	2729	-0.674	3.100	-0.308	0.282	-0.051	0.886	-0.850
988: TS226	7166	2737	-1.529	-0.318	0.778	1.187	0.768	0.378	0.281
989: TS230	7589	3025	0.605	-1.107	1.834	0.112	-1.696	1.013	0.809
990: TS231	7585	3036	2.136	-0.684	2.463	-0.389	-1.611	2.217	0.072
991: TS232	7599	3048	2.429	-1.975	1.945	-0.531	-2.587	0.884	1.956
992: TS242	8598	5154	-0.963	-0.074	-0.420	-0.349	-0.348	-0.177	-0.375
993: TS243	8600	5116	-2.013	-0.019	-0.327	-0.158	0.072	-0.384	-0.264
994: TS244	8613	5107	0.039	-0.221	0.234	0.458	-0.535	1.295	-1.341
995: TS245	8600	5088	-0.909	0.123	0.371	0.900	0.185	1.742	-0.745
996: TS251	8513	5104	-0.221	0.943	-1.178	0.376	-0.811	-1.117	0.171
997: TS252	8518	5075	4.437	1.256	-2.039	2.098	1.059	-0.053	0.305
998: TS254	8501	5061	1.999	2.090	-2.135	1.126	-0.312	0.619	0.117
999: TS255	8494	5044	-0.152	1.143	-2.481	0.567	-0.044	-0.129	0.234
1000: TS257	8477	5037	-1.030	0.770	-1.059	0.212	-0.049	-0.380	-0.408

Table 5 Component Scores of Chip Samples (21)

Sample No.	X	Y	Z(01)	Z(02)	Z(03)	Z(04)	Z(05)	Z(06)	Z(07)
1001: TS258	8453	5020	-0.169	0.756	-1.077	-0.394	0.032	0.370	0.044
1002: TS259	8426	5002	0.274	1.071	-1.312	-0.227	-0.117	-0.184	0.738
1003: TS272	8151	4992	2.520	-0.517	1.004	1.380	1.312	3.379	0.140
1004: TS276	8210	4934	3.862	0.272	0.877	2.150	3.310	0.635	-1.201
1005: TS281	8256	4820	-1.879	-0.807	-0.388	0.780	0.004	-0.192	-0.882
1006: TS282	8286	4833	1.661	0.456	-1.904	1.909	0.223	-0.495	-0.530
1007: TS283	8294	4824	-0.893	-0.670	0.525	0.212	0.554	0.898	-1.036
1008: TS284	8320	4822	-1.566	0.811	0.391	0.393	-0.008	-0.253	-0.746
1009: TS299	8586	4725	7.285	-2.844	-3.732	4.650	1.493	-1.400	-1.356
1010: TS300	8595	4701	4.376	-2.090	-3.687	3.873	2.090	-0.638	-1.344

Abbreviations of Table 6

Qualitatve amount　　Çokı bol◎, Bol○, Bolca□, Az△, Çokı az・
(Abundant) (common) (few) (rare) (trace)

Size of gold grain : A:50μ >, B:50-100μ, C:100-150μ, D:200-300μ, E:300μ <

Hevey mineral :
Ba:barite, Gr:garnet, Ep:epidote, Bi:biotite, Px:pyroxine,
Mz:monazite, Ci:cinnabar, Il:ilmenite, Zr:zircone, Mg:magnetite,
Hm:hematite, Py:pyrite, Sp:sphalerite, Ga:galena, Sc:specularite,
Sh:sphane, Ru:rutile, Ch:chlorite

Background of gold mineralized area

Area of stream	Weight (-2mm)	Number of gold grain	
		Vein type	Epithermal type
soil	3kg	15	4
1km²	3kg	5	1
3km²	5kg	8	2
5km²	8kg	10	3
10km²	20kg	15	4
30km²	200kg	100	20

※1 : Area of stream
※2 : SD ; stream sediment (sulu dere)
KD ; dray stream sediment (kuru dere)
S ; flood sediment (sellenmeli)
IC ; fine-grained sediment (iyi kansantre)
AC ; coarse-grained sediment (orta kansantre)
TS ; blend sediment of stream and soil (topraklı kansantre)
※3 : weight of sample

İzabe:melted gold(?)

Epithermal type in Çanakkale area
Provable grade of gold(ppb) = pieces of gold(A size) X 20

Table 6 List of Heavy Mineral Study (1)

Sample No.	Gold No.	Size of Gold Grain A	B	C	D	E	Heavy Minerals Ba	Gr	Ep	Bi	Px	Mz	Ci	Il	Zr	Mg	Hm	Py	Sp	Ga	Sc	Sh	Ru	Ch	Anomaly
TA001D	-						□								△	□	◎	□							
TA002D	1	1					△								·	·	△	□							3. Au
TA003D	-							·	·						△		◎	○							3. Au
TA004D	3	1	2					·	△				1		□	△	○	○							3. Au
TA005T	171	153	17	1					◎						□	□	□	□							
TA006D	14		4	5	5			□								□	□	□							1. Au, W
TA007D	18	11	7				△										△	○					·		1. Au
TA008D	7	4	2	1			△				△					△	□	□							2. Au
TA009D	9	9					○				△					□	○	○			△				1. Au
TA010D	16	11		4	1		□	○	○		◎				△	◎	◎								1. Au
TA011D	109	102	3	1	1		△					△			·	◎	◎	△							1. Au(2km～)
TA012D	59	46	10	1			○	□			□	△			□	◎	◎	□							1. Au(2, 5km)
TA013D	13	12		1			△			○	◎					□	△	△							1. Au(i, 3km)
TA014D	13	13						△	△							○	□	△						□	1. Au(1km)
TA015D	4	4					◎				◎					◎	◎								3. Au, Ba
TA016D	4	2			1		△								△	□	◎	○	△						1. Au
TA017T	91	88		3			△								·			○		1					
TA018T	309	300	9				△						1			·	△	△							
TA019T	>2, 000														□		△	△							
TA020T	>5, 000						□											○		□					
TA021D	-						□								△	△	◎	△	1						
TA022D	7		6	1			○									□	◎	○			△				2. Au(1km)
TA023D	4	1	2	1			◎	○	◎	△	○					◎	△	△			△				3. Au(3km)
TA024D	6	6					△									△	□	·							2. Au
TA025D	6	5	1				△	◎			○		1		△	△	△	□			△				2. Au

Table 6 List of Heavy Mineral Study (2)

Sample No.	Gold No.	Size of Gold Grain					Heavy Minerals																	Anomaly
		A	B	C	D	E	Ba	Gr	Ep	Bi	Px	Mz	Ci	Il	Zr	Mg	Hm	Py	Sp	Ga	Sc	Sh	Ru	Ch	
TA026D	16	7	7	2			□								□	△	◎	□			△				1. Au(2km)
TA027D	9	2	5	2			◎						1		□	△	○	□							2. Au(1km)
TA028D	-						□		○		○					○	◎	○	3						
TA029D	-						□		○		○					○	◎	○	3						
TA030D	-						○		○		○						○	◎	3						
TA031T	7	7															○								
TA032T	-														•	•	•	•	△		•		•		
TA033T	-														△	△	△	•	△		•				
TA034D	-						○		○		◎				•	○	△	○			•			△	
TA035D	-						○		○						•	□	□	□			△				
TA036D	-						◎		○		○				•	□	○	□	•						- Ba-Zn
TA037D	25	22	2		1		○			○	◎				•	□	□		△		△			□	1. Au(1,4km)
TA038T	7	7									△				□		□								
TA039D	9	1	8				◎			○	◎	□				◎	◎	△							1. Au, Ba(2km)
TA040D	-						◎				◎	○	7	◎	□	◎	◎	△			△				- Ba
TA041D	2		1	1			○				◎	△	1	◎		◎	◎	△							3. Au
TA042D	2	2					◎					△		◎		◎	◎	△							3. Au, Ba
TA043D	-						◎			○	○	△		◎		◎		△	△						- Ba
TA044D	2					2	◎			○	○	△		◎		◎	◎	△							3. Au, Ba(2km)
TA045D	-						○			◎	○	•		◎	•	○	○								
TA046D	-						◎				◎	△		◎			◎								- Ba
TA047D	-							○	○	○	○	○			•			•					•		
TA048D	-						◎				○	◎	4		△	◎	◎						•		- Ba-Fe
TA049D	6	2	1	1	1	1	△								□	□	◎								1. Au(1km)
TA050D	-						○		□						△	□	◎						•	△	

Table 6 List of Heavy Mineral Study (3)

Sample No.	Gold No.	Size of Gold Grain					Heavy Minerals																Anomaly
		A	B	C	D	E	Ba	Gr	Ep	Bi	Px	Mz	Ci	Il	Zr	Mg	Hm	Py	Sp	Ga	Sc	Sh	Ru	Ch	
TA051D	-						◎			○	◎	△	3		△	◎	○	・							- Ba
TA052D	1	1					○			○	◎	△	1		△			・							3. Au, Ba
TA053D	-						◎				○	△	1		△	・	○	△							- Ba
TA054D	-						□								・	・	□	○							
TA055D	1	1					△	△	△						△	△	・	□					・		
TA056D	-						△		△							□	・	□							
TA057D	1	1					・		□						・		・	△					・		
TA058D	-						△									・	△	○							
TA059D	-						◎			○	□			◎		○	◎		△	1					- Ba-Pb-Zn
TA060D	3	2				1	□	○	□		□		◎	◎	・	○	○	◎						□	2. Au, Hg
TA061D	2	2					◎	△		○	○	□		◎	・	◎	◎	○				△			2. Au, Ba
TA062D	2	2					◎				□	△	1	◎	○	◎	◎								3. Au, Ba
TA063D	-						◎	・		◎	○				△										- Ba
TA064D	-						◎				○	△	1	□	□			○							- Ba
TA065D	2	2					◎	◎	△	○		△		○		○	◎	△				△			3. Au, Ba
TA066D	16	12	2	2			○	□		○		△					◎								1. Au, Ba
TA067D	-						○	○		○	△	△	1		□	△	△			1					- Ba-Pb
TA068D	-						△			○	□	△			□	□	△								
TA069D	22			9		13	◎	○			□	△	1	△	□	□	□	◎				□			1. Au, Ba(1.5km)
TA070D	1	1					○	△			○	□				○	□					□			
TA071D	-						□			○	○				・	◎	◎					□			
TA072D	-						◎								△	△	◎					□			- Ba
TA073D	4	4					□			○	△					□	△					・			2. Au
TA074T	-						○				○			○	□	□	○					○			
TA075D	16	6				10	△		○					◎	・	○	□	○						○	1. Au(1.5km)

Table 6 List of Heavy Mineral Study (4)

Sample No.	Gold No.	Size of Gold Grain					Heavy Minerals																		Anomaly
		A	B	C	D	E	Ba	Gr	Ep	Bi	Px	Mz	Ci	Il	Zr	Mg	Hm	Py	Sp	Ga	Sc	Sh	Ru	Ch	
TA076D	20	16		2	1	1	□					•		□			□	○		□				□	1. Au, Pb(1km)
TA077D	1	1					□				□					○	□	○						□	
TA078D	2		2				○				□					○	□	△					△		
TA079T	28	28					•		△		△				△	•	◎	△							
TA080T	207	200	6	1			△								△		△	△							
TA081D	5	3	1	1			○	◎			□					○		○							3. Au
TA082D	5	3	1	1			△	◎			□			□		○	◎	○			○			○	2. Au(2km)
TA083D	65	48	5	5	3	4	△	○	◎							□	△	○		•				○	1. Au(2km)
TA084D	-						□				○					○	○								
TA085D	1	1					△	•	□		○	□					◎								
TA086D	3		3				□				□					△	•	□			△				
TA087D	2		2				□		△		○			△	△	○	△	□	△		△			△	- Zn
TA088D	1	1					◎				○	○		◎		◎	◎		□	◎	◎				- Ba-Pb
TA089D	3		2	1			◎				○			○		◎	◎	○		1	□			△	- Ba-Pb
TA090D	-						•				◎			△		◎		□			□			○	
TA091D	10	9		1			◎				◎			△		◎		△						○	1. Au, Ba(2km)
TA092D	3	1	2				□				◎			□		◎	△	△							3. Au
TA093D	-						□				◎		2	○		◎				○					- Fe-Pb
TA094D	2	1		1			○				□				△	◎	○	△		△					3. Au
TA095D	10	8	2				△								△	•	□	□							1. Au
TA096D	3	1	2				□				□						○	○							3. Au
TA097D	4	3	1				△		□		□			○		○	○	□							2. Au
TA098D	-						•		•			•			△	△	□								
TA099D	5	2	2	2	1		○		△		△		○			△	□	□		△				○	1. Au, Pb-Hg
TA100D	1						○			○	△					△	○	□							

Table 6 List of Heavy Mineral Study (5)

Sample No.	Gold No.	Size of Gold Grain					Heavy Minerals																	Anomaly
		A	B	C	D	E	Ba	Gr	Ep	Bi	Px	Mz	Ci	Il	Zr	Mg	Hm	Py	Sp	Ga	Sc	Sh	Ru	Ch	
TA101D	19	1	8	6	2	2	◎				○					○	◎	○	○	◎					2. Au, Ba-Pb-Zn(1.5km)
TA102D	1			1			△				○			△		○	○	△			△				
TA103D	-						△				◎			□		◎	□								
TA104D	4		3	1			◎	·	△		○			○		○	◎			△					-, Ba-Pb
TA105D	1			1			○	·	△		○	·		○	□	○	○	△							
TA106D	-						·							○	□	○	□	△							
TA107D	-						○	□	○	□				△	□	○	□	□	△				·		
TA108D	2	1				1	△				·			○	□	□	□	○		△					-, Pb
TA109D	3		2	1			○			○	□	△					○	△			·				3. Au
TA110D	1	1					·		·		·					·	△	□	·				·		
TA111D	8	3	2	2		1	□	◎	○			□	□			○	□	○			○	△			1. Au, Pb-Hg(2.5km)
TA112D	13	1	2	2	4	4	□									○	◎	□		□	△			○	1. Au, Pb(2km)
HB058T	3	3													△	·	△						·		
HB134T	-						○																		
HB165T	7	7					□			□	□					□	·	·							
HB170T	-										·	·			△	·		·							
HB197T	-						·											□			·				
HSB01T	12	12																							
HSB02T	12	12													△		□	△							
HSB03T	1	1					·								·		○	△							
HSB04T	264	264					□								△	△	◎							○	
HSB05T	-										△				△	△	◎						·		
MT07D	-						○	◎	○				1	◎	□		◎						·		
MT087T	2		2				△							△	△		◎	□	△	□					
MT088T	32	29	2	1			□												◎	◎					

Table 6 List of Heavy Mineral Study (6)

Sample No.	Gold No.	Size of Gold Grain					Heavy Minerals																	Anomaly
		A	B	C	D	E	Ba	Gr	Ep	Bi	Px	Mz	Ci	Il	Zr	Mg	Hm	Py	Sp	Ca	Sc	Sh	Ru	Ch	
AK069T	4	4							△						□	○	△	△							
TA113D	57	51	2	1	1	2	◎	・			△						□	□							1. Au, Ba(0.5km)
TA114D	6	6					◎				○		1			△	△	□							1. Au, Ba(0.5km)
TA115D	74	70	2	1	1		□	○								□	□	○	△		△	△		□	1. Au, Ba(0.5km)
TA116T	27	20	4	1	1	1	◎										△	△							1. Au, Ba(0.5km)
TA117D	+200	191	5	2	2		○								□	○	△	◎	△					△	

Table 6 List of Heavy Mineral Study (1')

Sample No.	Coordinates	Locality	km² ※1	Conditions of Sample※2						Geology	Weight※3		Gravel					Remarks
				SD	KD	S	IC	AC	TS		-2mm	-1mm	Li	Si	Ar	Py	Hc	
TA001D	6986 3310	Doğan D.	2.0		×			×		Out of area(Ş)	5kg	105g		□	□			
TA002D	7130 3080	Kızıltarla D.	2.0		×			×		Şapçı V.	4	50	□	◎	○	◎	○	
TA003D	7117 3060	Karaburunlar Ç.	10	×			×			Şapçı V.	5	125		□		□		
TA004D	7100 3065	Kızılcık D.	6.0		×			×		Out of area(Ş)	5	75		□		○		
TA005T	7107 3070	SW. Kızılcık D.	-							Out of area(Ş)	4	55		○		○		Malachite◎
TA006D	6810 3197	N. Sarp D.	2.0		×			×		Out of area	5	65	○		○	○		Scheelite○
TA007D	6858 3160	N. İşret T.	2.0		×			×		Out of area	5	35			□	□	□	
TA008D	7347 3180	Kirazlıköy D.	1.5		×			×		Şapçı V.	5	35			△			
TA009D	7302 3195	Kirazlıçamtepe D.	5.0		×		×			Şapçı V.	5	75			□			
TA010D	6280 3488	Koca D.	3.5		×			×		Out of area	10	265						1A izabe
TA011D	6252 3422	Kocaçay D.	7.0		×		×			Out of area	12	115						2B izabe
TA012D	6590 3321	Ekşiçay	18	×				×		Out of area	10	445		□		□		2B izabe
TA013D	7054 3413	Armutcuk Çay	13		×		×			Out of area	8	95						
TA014D	7390 3621	Kavgımaç D.	30		×			×		Çamyayla V.	8	90						
TA015D	6935 3440	Halilagaköy D	5.0		×		×			Out of area	5	390						
TA016D	6670 3038	S. Pırnallı T.	9.0		×			×		Out of area	8	130		◎	◎	◎	○	1A izabe
TA017T	6308 3305	SE. Gökçekaya T.	-							New Madendagı	3	75		◎	◎	◎	◎	New Madendagı
TA018T	6304 3125	E. Madendaı	-							Old Madendagı	3	65		◎		◎	◎	Old Madendagı
TA019T	6490 2840	Kartaldag Au								Kartaldagı	15	80		◎		◎	◎	Kartaldagı
TA020T	6500 2843	Kartaldag Au								Kartaldagı	8	1,655		◎	◎	◎		Kartaldagı
TA021D	7772 3198	Kızılcıklı D.	1.5		×			×		Şapçı V.	8	40	□	□	□			
TA022D	7792 3158	N. Kurt T.	3.5		×			×		Şapçı V.	8	55	□	□				
TA023D	7824 3152	N. Kurt S.	3.0		×			×		Şapçı V.	8	125	□	□				
TA024D	7690 3262	Kocamustafa D.	7.0			×		×		Şapçı V.	6	35	□	□	□	□		
TA025D	7698 3245	W. Gücük B.	8.0		×		×			Şapçı V.	8	35	□	□				Hydrobiotite△

Table 6 List of Heavy Mineral Study (2')

Sample No.	Coordinates	Locality	km² ※1	Conditions of Sample※2						Geology	Weight※3		Gravel					Remarks
				SD	KD	S	IC	AC	TS		-2mm	-1mm	Li	Si	Ar	Py	He	
TA026D	7682 3229	N. Karakuz T.	2.0			×		×		Şapçı V.	8kg	45g	□	□	□	□		
TA027D	7590 3272	Karabostanlık D.	3.5		×			×		Şapçı V.	7	45	△	□				
TA028D	7810 3444	Dedeler Çayı	2.2			×		×		Şapçı V.	7	230	△					Propyritic z.
TA029D	7758 3586	Karakız D.	3.5		×			×		Çamyayla V.	8	95						ditto
TA030D	7525 3402	Karakız D.	10		×		×			Çamyayla V.	6	60						ditto
TA031T	7954 3188	Göktepe	-							Şapçı V.	5	45		□				
TA032T	7927 3213	Göktepe	-							Şapçı V.	5	30	△	□	□			
TA033T	8013 3137	SE. Bostanoluk T.	-							Şapçı V.	5	35	△	□			□	
TA034D	8215 3570	Karaca D.	2.2			×		×		Çamyayla V.	6	95				○		
TA035D	8263 3548	S. Fırsat T.	10		×			×		Çamyayla V.	6	60	□			□		PbO_2 •
TA036D	8348 3358	N. Apra T.	3.0			×		×		Şapçı V.	5	85						
TA037D	8447 3265	Arlık D.	4.0		×		×			Şapçı V.	6	65						1A izabe
TA038T	8380 3087	E. Günenalanı	-							Şapçı V.	3	25	○	○				
TA039D	7810 2410	S. Gökyakan D.	2.0			×			×	Şapçı V.	5	165		○		△		1A izabe
TA040D	7832 2445	Ayvadere	1.9		×		×			Şapçı V.	6	200	□	□				
TA041D	7853 2295	Buzalık D.	2.0		×		×			Şapçı V.	7	470	□	□	□			
TA042D	7848 2309	Kadıkabarcık D.	3.0		×		×			Şapçı V.	6	165	□	□	□			
TA043D	7764 2230	NW. Çobantepe	1.5		×		×			Şapçı V.	6	170	□	□	□			
TA044D	7624 2038	Masırlı D.	1.7		×		×			Şapçı V.	5	85	□	□	□			E:600μ, 700μ
TA045D	7838 2040	N. Düztarla	2.0		×		×			Şapçı V.	6	55	□	□	□			
TA046D	7431 2260	N. Çamtepe	0.8		×				×	Şapçı V.	5	395	□	□	□			
TA047D	7385 2105	Gökçesme D.	3.0		×				×	Şapçı V.	5	50	□	□				
TA048D	7209 2010	Gökgedik D.	4.5		×		×			Şapçı V.	7	935	□	□				
TA049D	7170 1990	E. Çesmetepe	1.5		×		×			Out of area	6	60	□	□			□	1E 500μ
TA050D	7129 1948	Eskidere	1.2		×			×		Out of area	6	80	□	□	□			

Table 6 List of Heavy Mineral Study (3')

Sample No.	Coordinates	Locality	km² ※1	Conditions of Sample※2						Geology	Weight※3		Gravel					Remarks
				SD	KD	S	IC	AC	TS		-2mm	-1mm	Li	Si	Ar	Py	He	
TA051D	7415 2390	Hayitli D.	3.0		×			×		Şapçı V.	8kg	290g	□					
TA052D	7425 2389	E. Hayitli D.	2.5		×			×		Şapçı V.	5	210	△	△				
TA053D	7355 2354	SW. Aşşağışapçı	2.5		×		×			Şapçı V.	5	50	□	□		△		
TA054D	7330 2482	Ayıdere	2.0		×			×		Şapçı V.	5	30	□		□			
TA055D	7318 2478	N. İnkaya Mev	6.0	×			×			Şapçı V.	6	30	□	□	□	△		Tourmaline△
TA056D	7180 2566	NE. Gökçe T.	1.5		×			×		Şapçı V.	6	35	□	□		○		
TA057D	7166 2568	NE. Gökçe T.	2.5	×					×	Şapçı V.	4	45	△			○		
TA058D	7040 2342	SW. Karatepe	2.0		×			×		Out of area	5	35			○	○		
TA059D	8053 1982	SW. Tepetalra	3.0			×		×		Şapçı V.	4	175		△				
TA060D	8570 2019	Şaplı D.	4.0		×		×			Out of area	8	160	△			△		
TA061D	8602 2210	W. Sazlı T.	1.5		×		×			Şapçı V.	7	260		□		△		
TA062D	8715 2400	Katranlı D.	5.0		×		×			Out of area	6	430		△				
TA063D	8778 2418	Sarguncuk D.	2.5			×		×		Out of area	6	80		△				
TA064D	8290 2230	Muratlarköyü	1.5	×			×			Şapçı V.	6	65			○			
TA065D	8236 2487	Yalı D.	7.0		×		×			Şapçı V.	5	215	△	□				
TA066D	8350 2538	S. Taşagıl T.	0.5			×			×	Şapçı V.	4.5	40		□	△			2B izabe
TA067D	8409 2582	S. Çaltıkara Küyü	1.0			×		×		Şapçı V.	5	30		△				
TA068D	8232 2380	N. Yeniköy Mah	1.5		×			×		Şapçı V.	6	35	△	△				
TA069D	8070 2719	S. Karibrahimerk	3.5	×			×			Şapçı V.	7	100		□	□	△		2C izabe
TA070D	8050 2528	Yollama D.	7.0	×			×			Şapçı V.	7	70		○		△		Hydrobiotite○
TA071D	8040 2519	Kocabıyık D.	2.5		×		×			Şapçı V.	8	305	□	□				
TA072D	8052 2496	Kopak D.	0.5		×				×	Şapçı V.	7	220		○				
TA073D	8132 2381	Sukalan D.	3.0	×			×			Şapçı V.	6	30		□				1A izabe
TA074T	8112 2405	Amanca köpekta	1.0		×				×	Şapçı V.	5	80		△				
TA075D	7408 2990	Hacıkar D.	2.0							Şapçı V.	6	105	□	△				

Table 6 List of Heavy Mineral Study (4')

Sample No.	Coordinates	Locality	km² ※1	Conditions of Sample※2						Geology	Weight※3		Gravel					Remarks
				SD	KD	S	IC	AC	TS		-2mm	-1mm	Li	Si	Ar	Py	Hc	
TA076D	7412 3000	W. Kestane Dagı	1.5		×		×			Şapçı V.	6kg	50g	□	□		□		2A izabe
TA077D	7328 3070	NW. Yaylayutsırtı	1.0		×		×			Şapçı V.	5	105		□		□		
TA078D	7110 3368	E. Çakırcıkmevki	1.5	×				×		Şapçı V.	6	85	□	□	□			
TA079T	6610 2418	Yumru Dagı								Out of area	3	30						
TA080T	6500 2863	Kartal Dagı								Out of area	3	20						1A izabe
TA081D	8347 2958	Kocataş D.	4.0		×		×			Şapçı V.	7	75	□	□				
TA082D	8293 2930	Oluk D.	4.5		×		×			Şapçı V.	5	130		□				Ssheelite・
TA083D	8297 2946	İncirlık D.	1.0		×		×			Şapçı V.	5	50		□				Scheelite・
TA084D	8470 3038	Dogandere	1.0			×			×	Şapçı V.	5	105						
TA085D	8729 2850	Kasap D.	5.0		×			×		Out of area	6	155		□				Pb
TA086D	8513 4950	Karigili D.	1.5			×			×	Çamyayla V.	6	35	□		□			
TA087D	8413 4992	Büyük D.	3.0	×			×			Çamyayla V.	8	40			□			
TA088D	8130 4962	E Koru Mah	3.0		×		×			Çamyayla V.	8	940						
TA089D	8133 4932	Andık D.	10	×			×			Çamyayla V.	8	310		△				
TA090D	8326 5539	Asi D.	2.0	×			×			Out of area	7	130	□		△			Diopsite◎
TA091D	8317 5533	Asi Dere Yanı	3.0		×		×			Out of area	7	120	□		□			Diopsite◎
TA092D	8232 5550	Akyalama D.	2.0		×		×			Out of area	8	340			△			Diopsite◎
TA094D	7428 2502	SW. Yukarışapçı	2.0		×		×			Şapçı V.	6	95	□	□				Pb△
TA095D	7524 2596	Egri D.	2.5	×			×			Şapçı V.	6	55		□	□	□		
TA096D	7530 2588	N. Bag T.	1.5		×			×		Şapçı V.	6	65		□	□	□		
TA097D	7595 2760	Adıören D.	1.5	×					×	Şapçı V.	4	45	□		□			
TA098D	7609 2763	Adıören D. kolu	1.0	×					×	Şapçı V.	4	35	□		□			Fe slag○
TA099D	7800 2696	Sarp D.	3.0		×		×			Şapçı V.	5	50			□			
TA100D	7745 2698	Adıören D.	2.0		×			×		Şapçı V.	5	75	□	□				

Table 6 List of Heavy Mineral Study (5')

Sample No.	Coordinates	Locality	km² ※1	Conditions of Sample※2						Geology	Weight※3		Gravel					Remarks
				SD	KD	S	IC	AC	TS		-2mm	-1mm	Li	Si	Ar	Py	He	
TA101D	8598 4688	NE. Balcılar köy	2.5		×			×		Balcılar V.	7kg	225						
TA102D	8843 5030	Davulgu D.	4.0	×			×			Çamyayla V.	7	125	△	△				
TA103D	8877 4643	Elçi Çayı	43	×			×			Balcılar V.	7	150		△				
TA104D	8900 4382	Gökdere	2.0		×		×			Balcılar V.	6	165		△				
TA105D	8567 4535	Elmadere	6.0		×		×			Çamyayla V.	6	135		△				
TA106D	8396 4520	N. Karafatma D.	1.5		×		×			Çamyayla V.	7	55		△				
TA107D	8391 4510	Karafatma D.	11	×			×			Çamyayla V.	5	115	△	△				
TA108D	8268 4696	Künk D.	2.0		×			×		Çamyayla V.	7	75	△	△				
TA109D	7742 2711	S. Düzpirna T.	1.5	×				×		Şapçı V.	5	45		□				
TA110D	7758 2722	Pekmez D.	3.5	×				×		Şapçı V.	5	70		□				
TA111D	7825 3091	Karakoz D.	3.0	×				×		Şapçı V.	6	130	□	○	△			Spinel△, Pb□
TA112D	7802 3100	Topallar D.	2.0		×		×			Şapçı V.	6	105	□	○				
HB058T	8348 3055	S. İnkaya T.	-							Şapçı V.	1	15	○	◎	□		◎	
HB134T	8278 2566	S. Karatepe	-							Şapçı V.	3	15	◎		△		○	
HB165T	7930 2262	S. Yayla T.	-							Şapçı V.	3	10		○	□	○	△	
HB170T	8030 2258	N. Geldirent	-							Şapçı V.	3	20	◎		□	△	○	
HB197T	8628 5044	N. Keçitaşı	-							Çamyayla V.	5	35			□	○	△	
HSB01T	7452 2575	NE. Yukarı şapçı	-							Şapçı V.	8	120		△	□	◎		
HSB02T	7470 2578	NE. Yukarı şapçı	-							Şapçı V.	8	20	◎	△			◎	
HSB03T	7483 2575	NE. Yukarı şapçı	-							Şapçı V.	6	45	□	△	□	△	□	
HSB04T	8512 5075	N. Kocasivri	-							Çamyayla V.	10	150	△	○	○	◎	△	Conc of Zn-Pb
HSB05T	7860 2170	S. Piren Düzü	-							Şapçı V.	8	70	□	◎	△		◎	
MT07T	6420 1460	N. Çatalçam	4.0		×		×			Out of area	5	110		◎	△		○	
MT087T	8278 3857	NW. Kocayokuş T.	-							Çamyayla V.	5	45						
MT088T	8278 3857	NW. Kocayokuş T.	-							Çamyayla V.	4	25						

Table 6 List of Heavy Mineral Study (6')

Sample No.	Coordinates	Locality	km² ※1	Conditions of Sample※2						Geology	Weight※3		Gravel					Remarks
				SD	KD	S	IC	AC	TS		-2mm	-1mm	Li	Si	Ar	Py	Ile	
AK069T	7678 3509	N. Damtepe	-							Çamyayla V.	5kg	15g	◎		○	○	◎	
TA113D	8095 2765	NE. Karaibrahimler	0.5			×			×	Şapçı Vol.	3	60		△	○	△		
TA114D	8060 2770	N. Karaibrahimler	0.5			×			×	Şapçı Vol.	3	35			○			
TA115D	8030 2765	Köse D.	1.0		×				×	Şapçı Vol.	3	90		△	○	△		
TA116T	8070 2760	Karaibrahimler	-							Şapçı Vol.	3	30		○	○	△		
TA117D	6540 2930	N. Kartaldağı	1.0		×				×	Out of area	4	100	△	○	○	○	△	Kartaldağı

Table 7 Discription of X-Ray Diffractive Samples (Zone A)

Sample No.	Name of Altered rock	Rock Unit	Location
HM159	Altered rock(s arg, massive)	Çamyayla V.	Karatalma D.
HM165	Altered coarse-grained andesite(m arg)	Çamyayla V.	Karfatma D
HM168	Altered rock(m arg & limonite)	Çamyayla V.	SW.Çakımak D.
HM202	Altered andesite(w arg)	Çamyayla V.	Balcılar
KB220	Altered andesitic tuff(m arg)	Çamyayla V.	N.Bozburun
KB225	Altered fine tuff(m arg)	Çamyayla V.	E.Balaban T.
KB232	Altered andesitic agglomerate(w~m arg)	Çamyayla V.	E.kaşaklı T.
KB236	Pale green tuff with green patch	Balcılar V.	SE.İncikli T.
KB239	Dark grey calcareous siltstone	Çamyayla V.	S.Çardaklı T.
TS244	Silicified rock(s sil)	Çamyayla V.	ditto
TS252	Iron oxides(m sil, m arg)	Çamyayla V.	SE.Dededag
TS254	Altered rock(m~s sil, w arg)	Çamyayla V.	ditto
TS282	Altered rock(m sil, m arg)	Çamyayla V.	S.Çalılı T.
KS219	Purple andesite	Balcılar V.	W.Eçi Köyü
KS223	Altered rock(s arg)	Çamyayla V.	E.Uzunkır T.
KS240	Altered rock(s arg)	Çamyayla V.	Kilimli Mah
KS253	Purple andesite	Balcılar V.	Kavsara Ç.
NY150	Altered rock(m arg)	Çamyayla V.	İhlamurlu D.
NY165	Altered rock with limonite(s arg)	Çamyayla V.	Çıraralan D.
NY172	Altered rock(s arg)	Çamyayla V.	N.Kabak T.
HB187	Altered andesite(w arg)	Çamyayla V.	Bozburun T.
HB203	White clay(vs arg)	Çamyayla V.	S.Hacıgeldi T.
HB218	Propylitic andesite	Çamyayla V.	E.Yale T.
HS213	Pb+Zn+Cu ore in andesite(vein type)	Çamyayla V.	SE Dedeag
HS215	Brecciated andesite(m sil, m arg & py)	Çamyayla V.	SE Dedeag
HS220	Chloritic andesite (m sil, m arg)	Çamyayla V.	SW.Dededag
HS240	Andesitic tuff(m sil, m arg)	Çamyayla V.	Elezdag
HS257	Andesitic tuff(m sil, m arg & py)	Çamyayla V.	SE.Kocasivri
HS262	Andesitic tuff(m sil, m arg & py	Çamyayla V.	S.Kocasivri
AK096	Altered andesite(s arg)	Çamyayla V.	Egdidere
AK104	Altered coarse-grained andesite(s arg)	Çamyayla V.	Kocataş T.
SR150	Weathered andesitic tuff	Balcılar V.	Gökdere
SR168	Lithic andesite(unalt)	Çamyayla V.	Hacıbayrarı D.
SR169	Altered rock(s arg)	Çamyayla V.	Hacıbayrarı D.

(Sample location is shown in Plate 3.)

Table 7 Discription of X-Ray Diffractive Samples (Zone B)

Sample No.	Name of Altered rock	Rock Unit	Location
HM050	White clay in the andesite	Şapçı V.	W.Osmanlar Mah
HM055	Silicified rock with limonite(s sil)	Şapçı V.	N.Örendag
HM074	White clay in the silicified rock	Şapçı V.	Göktepe
HM082	Altered rock with limonite(m arg)	Şapçı V.	W.Kocatepe
HM087	Altered andesite with limonite(m arg)	Şapçı V.	N.Kocatepe
HM090	Altered rock with limonite(s arg)	Şapçı V.	Kovandagı Mah
HM094	Altered andesite with limonite(s arg)	Şapçı V.	Ada T.
HM110	Altered rock with limonite(s arg)	Şapçı V.	E.Karacalar
HM114	Altered rock with limonite(s arg)	Şapçı V.	W.Güdük Br.
HM125	Limonitic argillaceous rock(s arg)	Çamyayla V.	Kargacık D.
HM135	Silicified rock with Oxide Cp & clay	Çamyayla V.	Kızıltarla D.
KB058	Altered andesite(w sil, m arg)	Şapçı V.	NW.Muratlar
KB067	Altered andesite(m sil, w arg)	Şapçı V.	NE.Karibarahimler
KB071	Altered granodiorite(w arg)	Intrusive	NW.Akpınar
KB087	Altered lapilli tuff(vs sil, w arg)	Şapçı V.	SE.Kocataş T.
KB089	Altered tuff(m sil, w arg	Şapçı V.	ditto
KB101	Altered andesite(s arg)	Şapçı V.	E.Çatlı Mah
KB107	Altered andesite(m arg)	Şapçı V.	Çaltıkara
KB113	Altered andestic tuff(w arg)	Şapçı V.	Hacıkasım
KB125	Altered andesitic tuff(vw sil, m arg)	Şapçı V.	Deve yolu
KB133	Unaltered andestic tuff	Şapçı V.	Kılıçlanmış Mah
KB136	Altered andesitic tuff(w sil, w arg)	Şapçı V.	Kılıçlanmış
KB176	Altered andesite(w sil, m arg)	Şapçı V.	Hacıdervişler M
KB192	Altered andesite(vw arg)	Şapçı V.	Teperarla
TS050	Silicified tuff(m sil, m arg)	Şapçı V.	Yukarışapcı
TS064	Altered tuff(s arg)	Şapçı V.	Taş T
TS090	Silicified andesite(m sil, w arg)	Şapçı V.	Akçaalan D.
TS106	Alterded andesite(m sil, m arg)	Şapçı V.	Aladag
TS114	Silicified andesite(m sil, w arg)	Şapçı V.	Aladag
TS138	Silicified rock(s sil)	Şapçı V.	Ada T.
TS146	Sil rock with jarosite & limonite	Şapçı V.	Ada T.
TS153	Altered andesite(m sil, w arg)	Şapçı V.	Egrildere
TS164	Altered rock with py(s arg)	Şapçı V.	Egrildere
TS175	Silicified rock(w arg)	Şapçı V.	Ala dag
TS181	Silicified andesite with sulphur	Şapçı V.	Ala dag
TS199	Silicified rock(s sil)	Şapçı V.	W Dede T
TS207	Altered andesite(m sil, w arg)	Şapçı V.	Köpektaş Mvk
TS215	Altered rock(m sil, w arg)	Şapçı V.	W.Yukarısapçı
TS231	Iron oxides breccia(m sil)	Şapçı V.	Kestane dag
KS065	Andesitic tuff(green patch)	Çamyayla V.	NW.Korluk T.

(Sample location is shown in Plate 8.)

Table 7 Discription of X-Ray Diffractive Samples (Zone B)

Sample No.	Name of Altered rock	Rock Unit	Location
KS078	Altered andesitic tuff(w arg)	Çamyayla V.	Gökçeören T.
KS082	Biotite bearing andesitic tuff	Çamyayla V.	Taşoluk Mah
KS090	Biotite bearing andesite	Çamyayla V.	Kumarlar
KS093	Altered rock(s arg)	Çamyayla V.	Fırsat T.
KS103	Rhodochrosite in the Zn-Pb-Cp vein	Çamyayla V.	Kocayokuş T.
KS113	Andesite tuff	Çamyayla V.	Sivcidag
KS126	Altered andesite tuff(m arg)	Çamyayla V.	Karahuseyin Dag
KS130	Kaolinite(kaoline diposit)	Çamyayla V.	W.Tepetarla
KS138	Altered andesite(m arg)	Şapçı V.	Akmaçakıl T.
KS152	Altered andesite(w arg)	Şapçı V.	Kurt T.
NY060	Altered andesitic tuff(m arg)	Çamyayla V.	Osmanlar Mah
NY076	Altered andesite(w arg)	Şapçı V.	E.Kurt T.
NY085	Altered andesite(m arg)	Şapçı V.	Gökbüyet D.
NY102	Altered andesite(m arg)	Şapçı V.	Kızılcıklı D.
NY119	Limonitic argillaceous rock	Şapçı V.	SE.Kök T.
NY124	Altered andesite with py diss(m arg)	Şapçı V.	Hacıkar D.
NY127	Altered andesite with py diss(s arg)	Şapçı V.	Hacıkar D.
NY129	Altered andesite(s arg)	Şapçı V.	Hacıkar D.
HB047	Altered andesite(s arg)	Şapçı V.	Çaltıkara
HB085	Altered andesite(w sil, m arg)	Şapçı V.	Geldiren T.
HB090	Altered andesite(w sil, m arg)	Şapçı V.	Geldiren T.
HB093	Altered andesite(s arg)	Şapçı V.	Geldiren T.
HB103	Altered andesite(m arg)	Şapçı V.	Muratlar
HB108	Altered andesite(m arg)	Şapçı V.	Muratlar
HB112	Silicified andesite(s sil, w arg)	Şapçı V.	Muratlar
HB117	Brecciated andesite(m arg)	Şapçı V.	Muratlar
HB120	Altered andesite(s arg)	Şapçı V.	Muratlar
HB130A	Altered tuff(s arg)	Şapçı V.	Kocataş
HB132	Altered andesite(s arg)	Şapçı V.	Kara T.
HB140	Altered andesite(s arg)	Şapçı V.	Kara T.
HB145	Altered andesite(s arg)	Şapçı V.	Çaltıkara
HB168	Altered andesite(vs arg)	Şapçı V.	Geldiren T.
HB173	Altered andesite(vs arg)	Şapçı V.	Geldiren T.
HS075	Andesitic tuff(m arg)	Şapçı V.	NE.Yukarışapcı
HS083	Andesitic tuff(m sil,w arg & malach)	Şapçı V.	NW.Yukarışapcı
HS090	Altered andesite(w sil, m arg)	Şapçı V.	Tombaktaş Mvk
HS093	Altered andesite(w arg+py diss)	Şapçı V.	Ocak D.
HS100	Altered andesite(m arg)	Şapçı V.	Inkaya Mvk
HS110	Andesitic tuff(m arg+iron sulphates)	Şapçı V.	Hacıdervişler
HS124	Andesitic tuff(m sil, m arg)	Şapçı V.	Hacıdervişler

Table 7 Discription of X-Ray Diffractive Samples (Zone B)

Sample No.	Name of Altered rock	Rock Unit	Location
HS131	Andesite(w sil, m arg+iron sulphates)	Şapçı V.	Yanal D.
HS141	Andesite(m sil, m arg & py diss	Şapçı V.	Küçüktepe
HS143	Andesitic tuff(m arg & limonite)	Şapçı V.	NW.Karacaören T
HS149	Andesite(w arg)	Şapçı V.	Düzpirna T
HS167	Andesite(w arg)	Şapçı V.	Kestane Dag
HS186	Andesite(w sil, m arg)	Şapçı V.	Çatalkaya T.
HS192	Andesitic tuff(m sil, m arg)	Şapçı V..	Çatalkaya T.
HS193	Altered andesite(m sil, m arg & py)	Şapçı V.	Kestanedag
HS195	Silicified rock(vs sil, hematite)	Şapçı V.	Kestanedag
HS200	Andesitic tuff(m sil, m arg)	Şapçı V.	Kirazlı dag
AK018	Altered andesite(m arg)	Çamyayla V.	Çanakçı D.
AK032	Qz vein in the andesite	Çamyayla V.	E.Osmanlar Mah
AK045	Altered andesite(m arg)	Çamyayla V.	N.Karacalar
AK072	Argillaceous rock with limonite	Şapçı V.	S.Kök T.
AK078	Altered rock with limonite(s arg)	Şapçı V.	S.Kök T.
AK083	Altered andesite with limonite(m arg)	Çamyayla V.	NW.Kök T.
SR060	Altered rock(vs arg)	Çamyayla V.	Sarıkaya T.
SR075	White clay	Şapçı V.	Karaçam T.
SR098	Silicified rock with limonite(s sil)	Şapçı V.	Kavsara T.
SR129	Altered rock with limonite(s arg)	Şapçı V.	E.Route 60

Table 7 Discription of X-Ray Diffractive Samples (Zone C)

Sample No.	Name of Altered rock	Rock Unit	Location
HM004	Dacitic tuff	Akkayarak V.	Akkayarak Köyü
KB003	Metamorphic rock(skarn zone)	Emese F.	Dikmenkorusu T.
KB005	Dikmen Granite(potassic zone)	Intrusive	E.Dikmenkorusu
KB012	Green schist	Emese F.	S.Sakat T.
KB018	Pelitic schist	Emese F.	SE.Lalebiten T.
KB040	Dikmen Granite(phyllic zone)	Intrusive	SW.Lalebiten T.
KB048	Quartz porphyry with py diss	Intrusive	SW.Lalebiten T.
KB056	Green schist with hematite diss	Emese F.	S.Lalebiten T.
TS026	Altered rock with quartz vein(s arg)	Emese F.	W.Ortaburun
TS038	Meta-volcanic rock	Emese F.	NW.Tabsbası
KS017	Limonitized porphyry	Intrusive	Dikmen
KS031	Dikmen Granite with qz veinlet	Intrusive	Uzunburun T.
KS040	Limonitized Dikmen Granite	Intrusive	Uzunburun T.
KS048	Silicified meta-volcanic rock	Emese F.	Karaleylek T.
HB015	Altered rock(s arg)	Emese F.	Domuzdamı D.
HB019	Dikmen Granite(phyllic zone)	Intrusive	Domuzdamı D.
SR023	Limonitized meta-volcanic rock	Emese F.	Karaleylek T.

(Sample location is shown in Plate 10.)

Abbreviations of Table 8

◎:Abundant ○:Common □:Few △:Rare,

Name of Mineral

Mo:montmorillonite, Ch:chlorite, Se:sericite, Mu:muscovite, Ka:kaoline, Pr:pyrophyllite, Da:diaspore, Al:alunite, Gy:gypsum, An:anhydrite, Ca:calcite, Do:dolomite, Si:siderite, Cr:α-cristobalite, Qz:quartz, Pl:Plagioclase, Kf:potassium feldspar, Py:pyrite, Ma:magnetite, He:hematite, Ep:epidote, Ho:hornblende

Name of Formation

Eça:Çamyayla Volcanics,
Mba:Balcılar Volcanics
Mşa:Şapçı Volcanics
Pad:Akkayrak Volcanics
Res:Emeşe Formation
dg:Dikmen Granite
Po:Porphyry

N:north, S:south, E:east, W:west, T:Tepe(mountain), D:Dere(stream)

Table 8 Results of X-ray Diffractive Analyses(1)

Zone A

Sample No.	Altered Rock	Rock unit	Location	Clay Mineral							Sulfate m.			Carbonate			Silicate		Feld.		Miscellaneous m.						
				Mo	Ch	Se	Mu	Ka	Pr	Da	Al	Gy	An	Ca	Do	Si	Cr	Q	Pl	Kf	Py	Ma	He	Ep	Mo	Cu	Mg
HM159	Al rock(s arg, massive)	Eça	Karalalma D.			□												◎									
HM165	Al an(m arg)	Eça	Karfatma D			△												○	□	△?							
HM168	Al rock with li(m arg)	Eça	SW.Çakımak D.			△?		△										◎	□	△?							
HM202	Al an(w arg)	Eça	Balcılar			△		△										◎					△?				
KB220	Al atuff(m arg)	Eça	N.Bozburun															○	○	△							
KB225	Al fine tuff(m arg)	Eça	E.Balaban T.					□										◎	△								
KB232	Al a-agg(w-m arg)	Eça	E.kaşaklı T.															◎									
KB236	Pale green tuff(unal)	Mba	SE.İncikli T.	△														□	□								
KB239	Dark grey siltstone	Eça	S.Çardaklı T.	△	△									□				□	□	△	△						
TS244	Al rock(s sil)	Eça	ditto					□										◎									
TS252	Iron oxides(m sil, m arg)	Eça	SE.Dededag		△													○	△								
TS254	Al rock(m-s sil, w arg)	Eça	ditto															○		□							
TS282	Al rock(m sil, m arg)	Eça	S.Çalılı T.					△										◎	□	△							
KS219	Purple an	Mba	W.Eçi Köyü	□															□							□?	
KS223	Al rock(s arg)	Eça	E.Uzunkır T.	△		△												○	□	△							
KS240	Al rock(s arg)	Eça	Kilimli Mah			△												◎	○	△							
KS253	Purple an	Mba	Kavsara Ç.	?				△											□		△						
NY150	Al rock(m arg)	Eça	İhlamurlu D.			△												○	□				△				
NY165	Al rock with li(s arg)	Eça	Çıraralan D.			△		△										◎	□	△							
NY172	Al rock(s arg)	Eça	N.Kabak T.			△												○	□	△							
HB187	Al an(w arg)	Eça	Bozburun T.					□										◎									
HB203	White clay(vs arg)	Eça	S.Hacıgeldi T.					□										◎			△						
HB218	Propylitic an	Eça	E.Yale T.					△						□				□	□								
HS213	Pb-Zn-Cu ore(vein type)	Eça	SE Dedeag			△												□			△					□	
HS215	Bre an(m sil, m arg)	Eça	SE Dedeag		△													◎	△		△					□	
HS240	Atuff(m sil, m arg)	Eça	Elezdag			△												◎									
HS257	Atuff(m sil, m arg & py)	Eça	SE.Kocasivri					□										◎	△?				△				
HS262	Atuff(m sil, m arg & py	Eça	S.Kocasivri		△													□	□								
AK096	Al an(s arg)	Eça	Egdidere			△		△?										◎	□	△							
AK104	Al an(s arg)	Eça	Kocatas T.	△		△												□	○	△							
SR150	Weathered atuff	Mba	Gökdere	△										□				△	△								
SR168	Lithic an(unalt)	Eça	Hacıbayrarı D.					△										○	○	△?							
SR169	Al rock(s arg)	Eça	Hacıbayrarı D.			△		△										◎									

Table 8 Results of X-ray Diffractive Analyses(2)

Zone B

Sample No.	Altered Rock	Rock unit	Location	Clay Mineral							Sulfate m.			Carbonate			Silicate		Feld.		Miscellaneous m.							
				Mo	Ch	Se	Mu	Ka	Pr	Da	Al	Gy	An	Ca	Do	Si	Cr	Q	Pl	Kf	Py	Ma	He	Ep	Ho	Tr	Cr	Hd
HM050	White clay in the an	Msa	W.Osmanlar Mah	△										◎			□											◎
HM055	Al rock with li(s sil)	Msa	N.Örendag					□			△?							◎										
HM074	White clay in the al rock	Msa	Göktepe					△										◎										
HM082	Al rock with li(m arg)	Msa	W.Kocatepe					△										◎										
HM087	Al an with li(m arg)	Msa	N.Kocatepe	△	△?															△					□			
HM090	Al rock with li(s arg)	Msa	Kovandagı Mah					△										◎										
HM094	Al an with li(s arg)	Msa	Ada T.	?		△		△									□		△	△								
HM110	Al rock with li(s arg)	Msa	E.Karacalar			△		△										◎										
HM114	Al rock with li(s arg)	Msa	W.Güdük Br.			△		△							□?			◎						?				
HM125	Al rock with li(s arg)	Eça	Kargacık D.		△	△												◎										
HM135	Al rock (m arg)	Eça	Kızıltarla D.					△	□									◎										
KB058	Al an(w sil, m arg)	Msa	NW.Muratlar					△									□	△?	△									
KB067	Al an(m sil, w arg)	Msa	NE.Karibarahimler					□									□						△?					
KB071	Al granodiorite(w arg)	Rag	NW.Akpınar		△													◎	○	△								
KB087	Al atuff(vs sil, w arg)	Msa	SE.Kocataş T.					△									○											
KB089	Al tuff(m sil, w arg	Msa	ditto								◎							○									□?	
KB101	Al an(s arg)	Msa	E.Çatlı Mah					◎																				
KB107	Al an(m arg)	Msa	Çaltıkara					□									□	□										
KB113	Al atuff(w arg)	Msa	Hacıkasım			△		△										□		△?								
KB125	Al atuff(vw sil, m arg)	Msa	Deve yolu					△			○							◎										
KB133	Ua atuff	Msa	Kılıçlanmış Mah	△															□	△						□		
KB136	Al atuff(w sil, w arg)	Msa	Kılıçlanmıs					□										□		△?								
KB176	Al an(w sil, m arg)	Msa	Hacıdervişler M					□									□											
KB192	Al an(vw arg)	Msa	Teperarla			△?		△									□			△								
TS050	Al atuff(m sil, m arg)	Msa	Yukarısapcı			△?			□									◎								○			
TS064	Al tuff(s arg)	Msa	Taş T								□																	
TS090	Al an(m sil, w arg)	Msa	Akçaalan D.			△													◎	△								
TS106	Al an(m sil, m arg)	Msa	Aladag			△												◎										
TS114	Al an(m sil, w arg)	Msa	Aladag					△										○										
TS138	Al rock(s sil)	Msa	Ada T.			△?												◎										

Table 8 Results of X-ray Diffractive Analyses(3)

Zone B

Sample No.	Altered Rock	Rock unit	Location	Clay Mineral							Sulfate m.			Carbonate			Silicate		Feld.		Miscellaneous m.							
				Mo	Ch	Se	Mu	Ka	Pr	Da	Al	Gy	An	Ca	Do	Si	Cr	Q	Pl	Kf	Py	Ma	He	Ep	Ho	Rh	Pb	Zn
TS146	Al rock with ja & li	Msa	Ada T.															◎			△?							
TS153	Al an(m sil, w arg)	Msa	Egrildere			△												◎										
TS164	Al rock with py(s arg)	Msa	Egrildere			△		□										◎										
TS175	Al rock(vs sil,w arg)	Msa	Ala dag					△										○										
TS181	Al an with sulphur(s sil)	Msa	Ala dag			△		△										□										
TS199	Al rock(s sil)	Msa	W Dede T			△		△										◎										
TS207	Al an(m sil, w arg)	Msa	Köpektas Mvk			□		△										◎										
TS215	Al rock(m sil, w arg)	Msa	W.Yukarışapçı			△		□										◎					△					
TS231	Al rock with li(m sil)	Msa	Kestane dag					△?										◎					△					
KS065	Atuff(green patch)	Eça	NW.Norluk T.											□				○	○	△								
KS078	Al atuff(w arg)	Eça	Gökçeören T.					□										◎		△								
KS082	Biotite bearing atuff	Eça	Taşoluk Mah					△										○	◎	△								
KS090	Biotite bearing an	Eça	Kumarlar	△		△													◎	△								
KS093	Al rock(s arg)	Eça	Fırsat T.			△		△										◎										
KS103	Rhodochrosite/Zn-Pb-Cp	Eça	Kocayokuş T.																						◎	○	○	
KS113	Atuff	Eça	Sivcidag			△		△										◎	□	△								
KS126	Al an tuff(m arg)	Eça	Karahuseyin Dag			△		△										◎										
KS130	Kaoline(kaoline diposit)	Eça	W.Topcularla	△	△													◎	□	△								
KS138	Al an(m arg)	Msa	Akmaçakıl T.					□										◎										
KS152	Al an(w arg)	Msa	Kurt T.					□			△							◎										
NY060	Al atuff(m arg)	Eça	Osmanlar Mah					□										◎										
NY076	Al an(m arg)	Msa	E.Kurt T.			△					□							◎										
NY085	Al an(m arg)	Msa	Gökbüyet D.	△		△												□	□	△?								
NY102	Al an(m arg)	Msa	Kızılcıklı D.								□							◎	△									
NY119	Al rock with li(s arg)	Msa	SE.Kök T.		△													□	◎									
NY124	Al an with py diss(m arg)	Msa	Hacıkar D.			△		△										◎	△									
NY127	Al an with py diss(s arg)	Msa	Hacıkar D.			△												○	◎									
NY129	Al an(s arg)	Msa	Hacıkar D.			△		△										◎										
HB047	Al an(s arg)	Msa	Çaltıkara					△?									○											
HB085	Al an(w sil, m arg)	Msa	Geldiren T.								△							◎										

Table 8 Results of X-ray Diffractive Analyses(4)

Zone B

Sample No.	Altered Rock	Rock unit	Location	Clay Mineral							Sulfate m.			Carbonate			Silicate		Feld.		Miscellaneous m.					
				Mo	Ch	Se	Mu	Ka	Pr	Da	Al	Gy	An	Ca	Do	Si	Cr	Q	Pl	Kf	Py	Ma	He	Ep	Ho	
HB090	Al an(w sil, m arg)	Msa	Goldiren T.			△		△			△							◎	△							
HB093	Al an(s arg)	Msa	Geldiren T.														△	□	△							
HB103	Al an(m arg)	Msa	Muratlar			△		△									○	△								
HB108	Al an(m arg)	Msa	Muratlar	△														○					△			
HB112	Al an(s sil, w arg)	Msa	Muratlar					□			□							◎								
HB117	Brecciated an(m arg)	Msa	Muratlar					□										○								
HB120	Al an(s arg)	Msa	Muratlar															□	△		△?					
HB130A	Al tuff(s arg)	Msa	Kocataş					○										◎								
HB132	Al an(s arg)	Msa	Kara T.					□									□									
HB140	Al an(s arg)	Msa	Kara T.			△												◎								
HB145	Al an(s arg)	Msa	Çaltıkara					□									□									
HB168	Al an(vs arg)	Msa	Geldiren T.														□									
HB173	Al an(vs arg)	Msa	Geldiren T.					△									□									
HS075	Atuff(m arg)	Msa	NE.Yukarışapcı			△		△						□				◎			△?					
HS083	Atuff(m sil,w arg)	Msa	NW.Yukarışapcı			△		△	△									◎								
HS090	Al an(w sil, m arg)	Msa	Tombaktaş Mvk			△		△										◎								
HS093	Al an(w arg)	Msa	Ocak D.			△		□										◎			△					
HS100	Al an(m arg)	Msa	İnkaya Mvk					◎										◎								
HS110	Atuff with li(m arg)	Msa	Hacıdervişler								□						◎	△								
HS124	Atuff(m sil, m arg)	Msa	Hacıdervişler					△	△?		△						□	△								
HS131	An(w sil, m arg)	Msa	Yanaı D.					△	△									◎								
HS141	An(m sil, m arg)	Msa	Küçüktepe					□										◎								
HS143	Atuff(m arg & li)	Msa	NW.Karacaören T					△	□									◎								
HS149	An(w arg)	Msa	Düzpirna T			△													□							
HS167	An(w arg)	Msa	Kestane Dag			△		□										◎								
HS186	An(w sil, m arg)	Msa	Çatalkaya T.			△		□										◎								
HS192	Atuff(m sil, m arg)	Msa	Çatalkaya T.					□										◎					△?			
HS193	Al an(m sil, m arg & py)	Msa	Kestanedag					□										◎					△			
HS195	Al rock(vs sil, hematite)	Msa	Kestanedag					□	△?									○					△			
HS200	Atuff(m sil, m arg)	Msa	Kirazlı dag					□			△?							◎								

Table 8 Results of X-ray Diffractive Analyses(5)

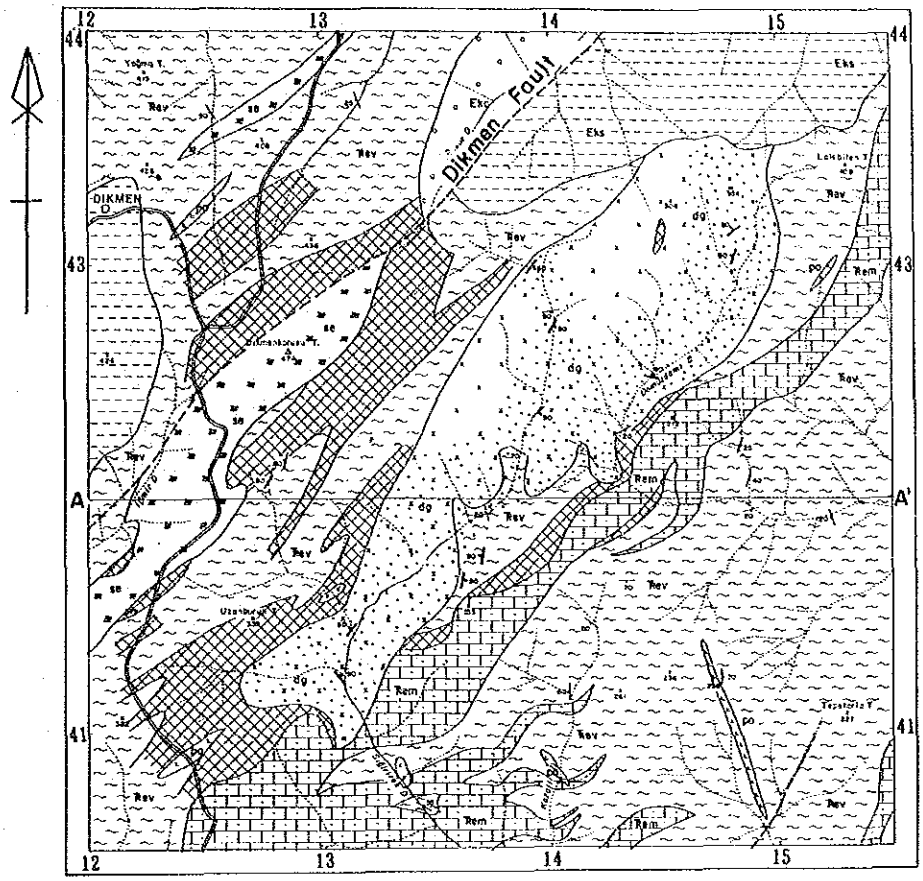
Zone B

Sample No.	Altered Rock	Rock unit	Location	Clay Mineral							Sulfate m.			Carbonate			Silicate		Feld.		Miscellaneous m.					
				Mo	Ch	Se	Mu	Ka	Pr	Da	Al	Gy	An	Ca	Do	Si	Cr	Qz	Pl	Kf	Py	Ma	He	Ep	Ho	
AK018	Al an(m arg)	Eça	Çanakçı D.	△?		△												○	□	△						
AK032	Qz vein in the an	Eça	E.Osmanlar Mah		△	△												◎								
AK045	Al an(m arg)	Eça	N.Karacalar														△		△							
AK072	Al rock with li	Msa	S.Kök T.			△		△										◎								
AK078	Al rock with li(s arg)	Msa	S.Kök T.		△?	△												○	○							
AK083	Al an with li(m arg)	Eça	NW.Kök T.	△		△												◎								
SR060	Al rock(vs arg)	Eça	Sarıkaya T.					□										◎								
SR075	White clay	Msa	Karaçam T.					□										◎	△	△?						
SR098	Al rock with li(s sil)	Msa	Kavsara T.			△		△										◎								
SR129	Al rock with li(s arg)	Msa	E.Route 60			△		△										◎								

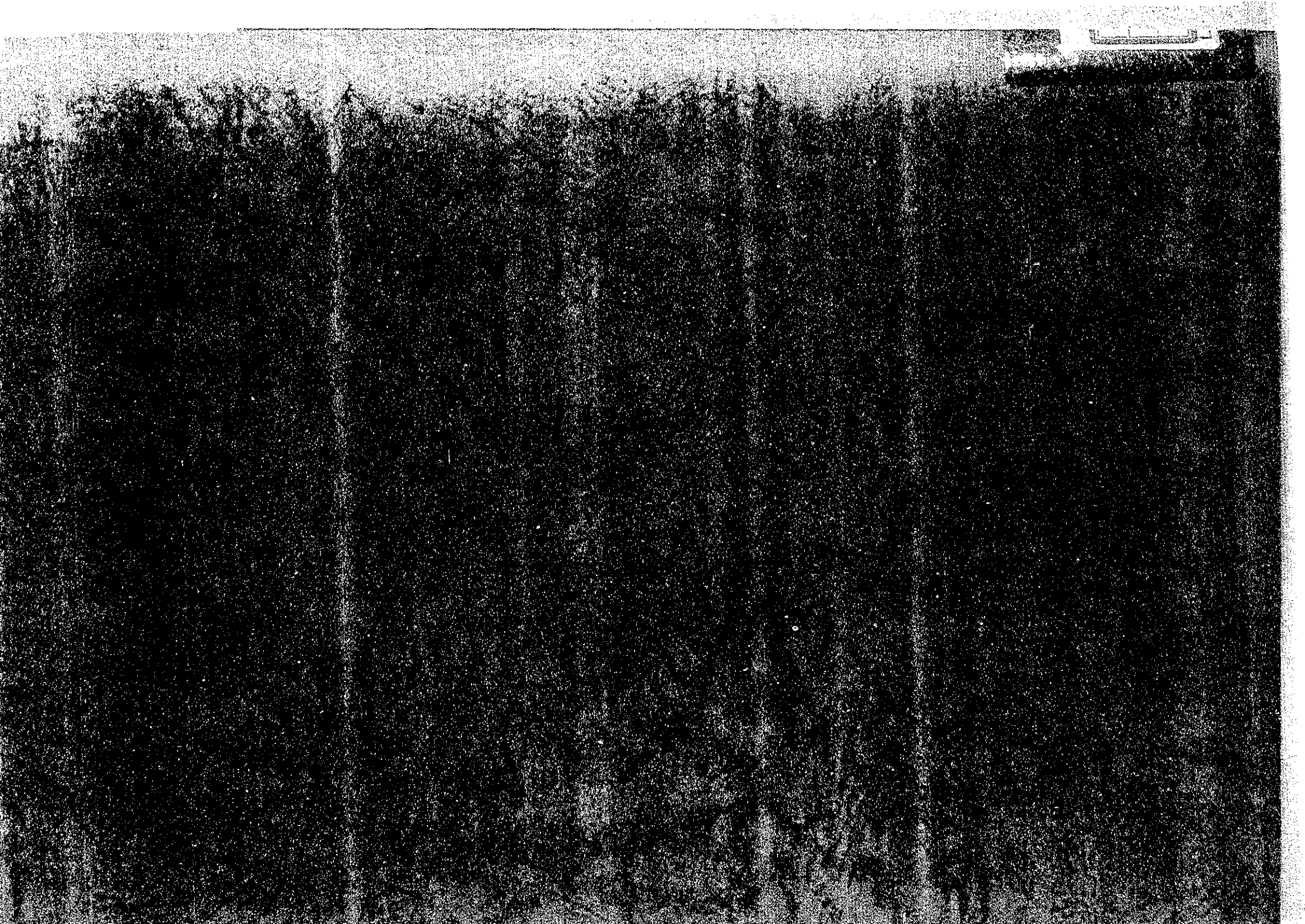
Table 8 Results of X-ray Diffractive Analyses(6)

Zone C

Sample No.	Altered Rock	Rock unit	Location	Clay Mineral							Sulfate m.			Carbonate			Silicate		Feld.		Miscellaneous m.						
				Mo	Ch	Se	Mu	Ka	Pr	Da	Al	Gy	An	Ca	Do	Si	Cr	Qz	Pl	Kf	Py	Ma	He	Ep	Ho	Tr	Bi
HN004	Dacitic tuff	Pad	Akkayarak Köyü	△	△																					△	
KB003	Metamor rock(skarn zone)	Res	Dikmenkorusu T.															◎									
KB005	Granite(potassic zone)	dg	E.Dikmenkorusu		△													◎	◎	□	△?						□?
KB012	Green schist	Res	S.Sakat T.					□										◎									
KB018	Pelitic schist	Res	SE.Lalebiten T.			△		□										◎									
KB040	Granite(phyllic zone)	dg	SW.Lalebiten T.			△		□										○									
KB048	Qz porphyry with py diss	Po	SW.Lalebiten T.					□						△				◎									
KB056	Green schist with hem	Res	S.Lalebiten T.					□										◎									
TS026	Al rock with qz(s arg)	Res	W.Ortaburun			△		△										◎									
TS038	Meta-volcanic rock	Res	NW.Tabsbası		△									◎				□									
KS017	Limonitized porphyry	Po	Dikmen			△		□										○									
KS031	Granite with qz veinlet	dg	Uzunburun T.			△		□										◎	□	△							
KS040	Limonitized granite	dg	Uzunburun T.					△						◎				□									
KS048	Silicified meta-vol rock	Res	Karaleylek T.															◎									
HB015	Al rock(s arg)	Res	Domuzdamı D.			△		□										◎									
HB019	Granite(phyllic zone)	dg	Domuzdamı D.			△		△										◎									
SR023	Limonitized meta-vol rock	Res	Karaleylek T.															◎					△				



L E G E N D

Eocene	Karanlık F. Kirazgeçit M.	Eks	Siltstone and sandstone
	Karanlık F. Geredelli M.	Ekc	Conglomerate
Triassic Emeşe F.		Rem	Marble
		Rev	Meta-volcanics and meta-sediments
Intrusive rocks		po	Porphyry
		dg	Dikmen granite
		se	Serpentinite
Mineralization			Dissemination and veinlet (Mo,Cp,Py)
			Skarn zone (Fe)
			Strike and dip of schistosity
			Strike and dip of joint
			Quartz vein with Mo,Cp and Py
			Fault
		A—A'	Profile line

巻末図　C地区デックメン花崗岩周辺部地質平断面図