

Horther, Nikki

From: McCray, Winnie
Sent: Tuesday, February 05, 2002 8:33 AM
To: Till, William; Horther, Nikki
Subject: FW: Ta/Cb Source Materials

Importance: High

Bill and Nikki,

The attached file is the laboratory analysis of the 177 lots you sampled last year for your records.

/s/ Winnie Mc Cray, DNSC-EQ

winnie.mccray@hq.dla.mil <<mailto:winnie.mccray@hq.dla.mil>>

-----Original Message-----

From: Foster, Russell J
Sent: Tuesday, February 05, 2002 8:31 AM
To: McCray, Winnie
Cc: Pecullan, Michael
Subject: Ta/Cb Source Materials

Winnie:
See attachment for final batch of New Haven Ta/Cb analyses...

Russ Foster
DNSC-E



TaConcAnal.xls

TANTALUM SOURCE MATERIALS ANALYSES

Lot #	Sample ID	Location	Percent									2 mm sieve
			Ta ₂ O ₅	Nb ₂ O ₅ (Cb ₂ O ₅)	SnO ₂	TiO ₂	Sb	Th	U	[Th + U]		
0010700E	100	New Haven, IN	65.38	4.72	2.67	1.11	0.06	0.038	0.090	0.128	99.65	
001060002	101	New Haven, IN	52.71	21.40	3.90	2.62	<0.01	0.017	0.060	0.077	96.61	
11080013	102	New Haven, IN	70.05	9.66	1.30	1.69	<0.01	0.002	0.019	0.021	95.73	
11080014	103	New Haven, IN	70.15	9.87	1.51	1.71	<0.01	0.001	0.029	0.030	92.37	
001060005	104	New Haven, IN	70.00	8.69	2.96	1.26	<0.01	0.002	0.017	0.019	95.33	
111	105	New Haven, IN	57.02	19.67	1.98	1.87	<0.01	0.009	0.067	0.076	92.91	
MRC-340	106	New Haven, IN	36.78	42.30	0.60	0.66	<0.01	0.002	0.062	0.064	99.42	
MRC-342	107	New Haven, IN	35.57	40.77	3.06	1.21	<0.01	0.042	0.034	0.076	100.00	
GEO-840	108	New Haven, IN	29.17	33.92	1.93	1.82	<0.01	0.007	0.043	0.050	100.00	
GEO-821	109	New Haven, IN	30.60	29.94	1.64	3.32	<0.01	0.007	0.040	0.047	100.00	
GEO-834	110	New Haven, IN	28.13	32.83	1.85	2.08	<0.01	0.007	0.041	0.048	100.00	
GEO-836	111	New Haven, IN	27.56	33.79	1.97	1.84	<0.01	0.008	0.043	0.051	100.00	
MRC-287	112	New Haven, IN	36.49	41.87	0.72	0.68	<0.01	0.048	0.026	0.074	51.22	
GEO-839	113	New Haven, IN	27.41	31.35	2.08	1.54	<0.01	0.006	0.046	0.052	100.00	
GEO-816	114	New Haven, IN	30.15	35.65	1.64	2.30	<0.01	0.007	0.044	0.051	99.86	
MRC-336	115	New Haven, IN	35.42	36.04	1.62	1.70	<0.01	0.004	0.101	0.105	98.98	
GEO-837	116	New Haven, IN	26.64	31.66	1.63	2.32	<0.01	0.007	0.044	0.051	99.97	
GEO-843	117	New Haven, IN	28.19	30.35	2.82	1.36	0.01	0.005	0.045	0.050	99.93	
GEO-838	118	New Haven, IN	28.12	30.42	2.45	1.93	0.01	0.005	0.041	0.046	99.96	
GEO-817	119	New Haven, IN	30.26	36.16	1.69	2.10	<0.01	0.009	0.041	0.050	100.00	
GEO-833	120	New Haven, IN	26.97	34.59	1.77	2.11	<0.01	0.007	0.041	0.048	100.00	
GEO-819	121	New Haven, IN	31.70	33.40	1.53	1.75	<0.01	0.007	0.034	0.041	100.00	
GEO-818	122	New Haven, IN	28.73	34.76	1.79	2.43	<0.01	0.008	0.041	0.049	99.97	
MRC-286	123	New Haven, IN	30.83	47.16	0.49	1.01	<0.01	0.148	0.041	0.189	72.07	
MRC-339	124	New Haven, IN	35.82	34.60	0.57	2.52	<0.01	0.008	0.062	0.070	99.72	
MRC-293	125	New Haven, IN	32.75	40.60	1.33	1.26	<0.01	0.002	0.061	0.063	95.82	
MRC-351	126	New Haven, IN	39.10	41.25	0.35	0.37	<0.01	0.004	0.044	0.048	32.82	
MRC-358	127	New Haven, IN	37.44	42.66	0.67	0.55	<0.01	0.001	0.061	0.062	99.29	
MRC-294	128	New Haven, IN	33.96	45.64	0.54	0.59	<0.01	0.004	0.132	0.136	98.67	
MRC-324	129	New Haven, IN	38.73	41.64	0.22	0.32	<0.01	0.023	0.094	0.117	96.86	

Lot #	Sample ID	Location	Percent								
			Ta ₂ O ₅	Nb ₂ O ₅ (Cb ₂ O ₅)	SnO ₂	TiO ₂	Sb	Th	U	[Th + U]	2 mm sieve
MRC-292	130	New Haven, IN	32.26	32.62	2.44	1.67	<0.01	0.004	0.092	0.096	99.73
MRC-262	131	New Haven, IN	32.61	44.97	0.54	1.53	<0.01	0.041	0.263	0.304	61.81
MRC-357	132	New Haven, IN	30.50	28.83	1.19	1.17	<0.01	0.004	0.079	0.083	96.01
MRC-243	133	New Haven, IN	66.89	11.37	1.44	1.63	<0.01	0.004	0.034	0.038	83.83
MRC-87	134	New Haven, IN	54.52	7.92	7.82	1.75	<0.01	0.024	0.056	0.080	95.09
MRC-279	135	New Haven, IN	40.47	30.38	4.11	3.93	<0.01	0.028	0.128	0.156	36.52
MRC-113	136	New Haven, IN	51.79	23.44	1.56	2.83	<0.01	0.008	0.080	0.088	86.79
MRC-246	137	New Haven, IN	68.64	10.13	1.04	1.68	<0.01	0.004	0.031	0.035	85.66
MRC-138	138	New Haven, IN	49.44	24.73	2.36	3.29	<0.01	0.019	0.069	0.088	85.55
MRC-196	139	New Haven, IN	47.06	16.20	8.36	3.32	<0.01	0.024	0.047	0.071	79.45
MRC-256	140	New Haven, IN	47.11	28.63	1.34	2.01	<0.01	0.003	0.131	0.134	42.32
MRC-311	141	New Haven, IN	64.48	13.64	2.47	0.66	<0.01	0.006	0.063	0.069	86.14
MRC-283	142	New Haven, IN	60.56	16.35	4.59	1.12	<0.01	0.039	0.021	0.060	100.00
MRC-285	143	New Haven, IN	62.40	16.62	3.63	0.65	<0.01	0.012	0.027	0.039	99.66
MRC-277	144	New Haven, IN	38.62	30.74	15.07	0.67	<0.01	0.002	0.028	0.030	99.96
MRC-323	145	New Haven, IN	40.14	35.59	3.49	1.61	<0.01	0.057	0.031	0.088	99.96
MRC-228	146	New Haven, IN	67.60	11.29	1.27	1.59	<0.01	0.006	0.031	0.037	81.07
21	147	New Haven, IN	67.77	10.62	1.99	1.58	<0.01	0.008	0.032	0.040	91.63
22	148	New Haven, IN	46.95	25.87	2.45	2.84	<0.01	0.037	0.172	0.209	97.01
26	149	New Haven, IN	64.02	12.88	3.04	2.00	<0.01	0.009	0.033	0.042	90.97
13	150	New Haven, IN	60.03	14.97	3.74	1.88	<0.01	0.027	0.143	0.170	97.02
MRC-227	151	New Haven, IN	66.05	11.74	1.39	1.66	<0.01	0.009	0.037	0.046	94.11
MRC-306	152	New Haven, IN	51.48	24.32	5.75	1.16	<0.01	0.007	0.025	0.032	99.99
MRC-183	153	New Haven, IN	65.55	13.62	1.23	1.53	<0.01	0.012	0.038	0.050	91.97
MRC-355	154	New Haven, IN	60.86	11.21	1.18	0.61	<0.01	0.001	0.010	0.011	99.81
GEO-809	155	New Haven, IN	29.53	32.00	3.90	2.73	<0.01	<0.001	0.001	0.001	0.04
MRC-226	156	New Haven, IN	66.31	11.93	1.37	1.75	<0.01	0.006	0.034	0.040	89.70
12	157	New Haven, IN	68.32	10.36	2.29	1.53	0.02	0.088	0.061	0.149	94.91
20	158	New Haven, IN	50.77	19.45	1.91	1.93	<0.01	0.034	0.389	0.423	99.20

Lot #	Sample ID	Location	Percent								U	[Th + U]	2 mm sieve
			Ta ₂ O ₅	Nb ₂ O ₅ (Cb ₂ O ₃)	SnO ₂	TiO ₂	Sb	Th					
15	159	New Haven, IN	54.57	15.50	3.40	2.35	<0.01	0.037	0.278	0.315	99.38		
30	160	New Haven, IN	63.99	12.45	4.00	1.93	<0.01	0.010	0.031	0.041	96.42		
MRC-166	161	New Haven, IN	54.57	10.98	7.67	1.67	<0.01	0.001	0.010	0.011	98.25		
MRC-303	162	New Haven, IN	55.95	25.11	1.62	0.57	<0.01	<0.001	0.031	0.031	23.03		
MRC-321	163	New Haven, IN	62.52	12.89	9.00	0.39	<0.01	0.010	0.027	0.037	100.00		
MRC-224	164	New Haven, IN	67.24	11.79	1.28	1.71	<0.01	0.007	0.034	0.041	86.73		
MRC-126	165	New Haven, IN	55.84	12.63	1.36	0.94	<0.01	0.002	0.051	0.053	65.33		
MRC-199	166	New Haven, IN	54.02	22.28	2.05	2.32	<0.01	0.008	0.055	0.063	92.61		
MRC-129	167	New Haven, IN	50.39	23.82	1.40	3.46	<0.01	0.021	0.079	0.100	92.70		
MRC-284	168	New Haven, IN	64.11	12.73	6.31	0.79	<0.01	0.010	0.014	0.024	99.92		
MRC-139	169	New Haven, IN	45.94	26.00	4.20	2.63	<0.01	0.040	0.054	0.094	93.79		
1	170	New Haven, IN	67.41	6.57	0.14	0.14	0.05	0.043	0.309	0.352	99.54		
1A&2	171	New Haven, IN	66.54	6.90	0.09	0.15	0.05	0.047	0.280	0.327	99.99		
MRC-189	172	New Haven, IN	66.67	12.21	1.22	1.59	<0.01	0.015	0.038	0.053	90.88		
MRC-259	173	New Haven, IN	51.24	22.13	3.23	2.90	<0.01	0.009	0.054	0.063	65.76		
MRC-180	174	New Haven, IN	66.14	13.62	1.13	1.54	<0.01	0.016	0.037	0.053	85.69		
MRC-173	175	New Haven, IN	66.55	12.40	1.16	1.61	<0.01	0.020	0.034	0.054	87.98		
MRC-275	176	New Haven, IN	33.19	15.39	<0.01	0.71	0.13	0.008	0.162	0.170	52.37		
MRC-312	177	New Haven, IN	71.99	2.72	0.09	0.52	0.44	0.015	0.038	0.053	91.57		
MRC-193	178	New Haven, IN	48.48	14.32	7.75	3.41	<0.01	0.023	0.064	0.087	79.82		
MRC-178	179	New Haven, IN	65.77	13.71	1.23	1.49	<0.01	0.015	0.039	0.054	86.06		
MRC-177	180	New Haven, IN	65.19	13.82	1.04	1.53	<0.01	0.007	0.035	0.042	88.19		
MRC-213	181	New Haven, IN	73.20	6.35	<0.01	0.16	0.03	0.037	0.172	0.209	99.96		
MRC-217	182	New Haven, IN	67.80	11.33	1.39	1.66	<0.01	0.008	0.032	0.040	86.55		
MRC-222	183	New Haven, IN	67.52	11.38	1.27	1.66	<0.01	0.007	0.034	0.041	83.01		
MRC-320	184	New Haven, IN	54.64	25.06	2.46	0.59	<0.01	0.007	0.021	0.028	99.82		
MRC-356	185	New Haven, IN	45.62	23.86	1.61	0.49	<0.01	0.004	0.042	0.046	78.87		
MRC-276	186	New Haven, IN	63.06	13.08	2.43	2.04	<0.01	0.010	0.026	0.036	84.19		
MRC-318	187	New Haven, IN	64.49	13.29	3.37	0.57	<0.01	0.016	0.041	0.057	100.00		
MRC-322	188	New Haven, IN	40.18	35.46	4.65	1.20	0.01	0.055	0.033	0.088	99.94		

Lot #	Sample ID	Location	Percent								
			Ta ₂ O ₅	Nb ₂ O ₅ (Cb ₂ O ₅)	SnO ₂	TiO ₂	Sb	Th	U	[Th + U]	2 mm sieve
MRC-100	189	New Haven, IN	50.67	4.68	7.50	2.83	<0.01	0.036	0.046	0.082	84.17
MRC-315	190	New Haven, IN	44.82	24.72	6.54	1.55	0.31	0.010	0.009	0.019	99.99
MRC-175	191	New Haven, IN	65.30	13.66	1.24	1.54	<0.01	0.021	0.036	0.057	92.57
MRC-206	192	New Haven, IN	61.66	12.96	2.70	2.44	<0.01	0.008	0.023	0.031	90.65
MRC-239	193	New Haven, IN	63.16	14.68	1.48	2.06	<0.01	0.005	0.033	0.038	90.84
MRC-238	194	New Haven, IN	64.17	14.96	1.62	1.65	<0.01	0.003	0.030	0.033	88.35
MRC-190	195	New Haven, IN	50.61	16.08	5.24	3.32	0.01	0.023	0.065	0.088	85.68
MRC-326	196	New Haven, IN	54.17	7.26	7.33	1.61	<0.01	0.133	0.025	0.158	99.95
MRC-150	197	New Haven, IN	66.74	7.48	5.02	0.85	<0.01	0.012	0.028	0.040	98.62
MRC-270	198	New Haven, IN	53.66	20.31	4.21	1.98	<0.01	0.010	0.064	0.074	93.78
MRC-309	199	New Haven, IN	72.44	6.16	<0.01	0.16	0.03	0.018	0.132	0.150	99.99
MRC-278	200	New Haven, IN	43.04	27.68	4.59	3.49	<0.01	0.020	0.098	0.118	38.04
MRC-314	201	New Haven, IN	68.37	3.29	4.05	0.61	1.30	<0.001	0.004	0.004	99.28
MRC-151	202	New Haven, IN	71.39	9.15	0.40	0.48	<0.01	<0.001	0.021	0.021	97.75
MRC-77	203	New Haven, IN	53.91	17.35	7.67	2.20	<0.01	0.015	0.055	0.070	58.63
MRC-219	204	New Haven, IN	67.78	11.16	1.28	1.63	<0.01	0.004	0.028	0.032	60.16
MRC-271	205	New Haven, IN	53.51	21.85	1.75	2.15	<0.01	0.011	0.092	0.103	87.85
MRC-265	206	New Haven, IN	66.67	11.51	1.59	1.70	<0.01	0.003	0.034	0.037	83.94
MRC-247	207	New Haven, IN	60.70	11.67	8.08	2.12	<0.01	0.052	0.035	0.087	97.53
MRC-263	208	New Haven, IN	48.87	28.09	1.13	1.70	<0.01	0.021	0.138	0.159	88.87
MRC-267	209	New Haven, IN	66.35	11.24	1.66	1.78	<0.01	0.003	0.032	0.035	86.77
MRC-268	210	New Haven, IN	66.66	11.30	1.75	1.75	<0.01	0.005	0.035	0.040	83.72
MRC-282	211	New Haven, IN	41.91	36.61	3.70	0.60	<0.01	0.004	0.028	0.032	99.86
MRC-91	212	New Haven, IN	67.18	13.12	0.91	1.53	<0.01	0.008	0.035	0.043	92.84
MRC-245	213	New Haven, IN	68.76	10.12	1.07	1.58	<0.01	0.003	0.029	0.032	80.96
MRC-274	214	New Haven, IN	37.10	32.34	11.29	0.17	<0.01	0.027	0.030	0.057	73.17
MRC-179	215	New Haven, IN	64.80	14.34	1.28	1.52	<0.01	0.009	0.043	0.052	84.76
MRC-117	216	New Haven, IN	51.72	13.76	6.89	3.98	<0.01	0.025	0.062	0.087	84.38
GEO-832	217	New Haven, IN	45.06	22.07	2.63	1.06	<0.01	0.001	0.036	0.037	99.77
MRC-218	218	New Haven, IN	67.87	11.34	1.29	1.65	<0.01	0.003	0.031	0.034	87.33

Lot #	Sample ID	Location	Percent								
			Ta ₂ O ₅	Nb ₂ O ₅ (Cb ₂ O ₅)	SnO ₂	TiO ₂	Sb	Th	U	[Th + U]	2 mm sieve
MRC-273	219	New Haven, IN	45.83	29.66	3.95	1.31	<0.01	0.061	0.034	0.095	99.99
MRC-86	220	New Haven, IN	54.11	20.47	2.88	2.81	<0.01	0.010	0.069	0.079	85.14
MRC-81	221	New Haven, IN	47.36	30.67	0.47	0.43	<0.01	0.008	0.036	0.044	35.19
MRC-94	222	New Haven, IN	51.29	21.56	1.80	3.81	<0.01	0.013	0.059	0.072	76.85
MRC-251	223	New Haven, IN	63.83	12.37	4.41	0.56	<0.01	0.014	0.032	0.046	99.88
MRC-359	224	New Haven, IN	64.16	13.56	5.21	0.77	<0.01	0.028	0.014	0.042	99.57
MRC-305	225	New Haven, IN	50.50	26.23	3.39	1.10	<0.01	0.012	0.020	0.032	67.49
MRC-186	226	New Haven, IN	62.81	14.01	1.89	1.42	0.05	0.132	0.031	0.163	71.25
MRC-244	227	New Haven, IN	67.91	11.19	1.11	1.48	<0.01	0.005	0.026	0.031	43.53
MRC-164	228	New Haven, IN	62.88	9.84	7.96	3.47	<0.01	0.003	0.017	0.020	90.23
MRC-153	229	New Haven, IN	51.85	23.47	6.56	0.12	<0.01	0.009	0.057	0.066	36.86
MRC-295	230	New Haven, IN	62.02	8.47	1.34	1.90	<0.01	0.004	0.020	0.024	97.81
MRC-162	231	New Haven, IN	55.35	6.17	14.51	1.53	<0.01	0.038	0.058	0.096	89.48
GEO-831	232	New Haven, IN	46.49	20.68	3.11	0.96	<0.01	0.002	0.029	0.031	99.15
MRC-317	233	New Haven, IN	60.88	5.51	6.09	1.53	<0.01	0.097	0.023	0.120	99.89
MRC-291	234	New Haven, IN	34.92	22.73	2.41	2.97	<0.01	0.008	0.059	0.067	98.79
MRC-308	235	New Haven, IN	43.77	10.34	<0.01	0.20	0.14	0.003	<0.001	0.003	45.18
MRC-333	236	New Haven, IN	36.08	19.01	32.16	0.13	0.02	0.047	0.017	0.064	64.71
MRC-343	237	New Haven, IN	43.44	32.54	1.83	1.20	<0.01	0.009	0.134	0.143	98.39
MRC-144	238	New Haven, IN	60.81	12.78	8.59	1.19	<0.01	0.020	0.029	0.049	99.29
MRC-266	239	New Haven, IN	67.42	10.82	1.58	1.70	<0.01	0.004	0.029	0.033	55.69
MRC-216	240	New Haven, IN	67.69	11.09	1.19	1.57	<0.01	0.006	0.034	0.040	65.94
MRC-300	241	New Haven, IN	42.10	10.73	<0.01	0.27	0.15	0.003	<0.001	0.003	31.25
MRC-223	242	New Haven, IN	68.20	10.67	1.51	1.61	<0.01	0.026	0.027	0.053	49.81
MRC-350	243	New Haven, IN	59.49	8.65	6.99	0.19	<0.01	0.013	0.081	0.094	41.21
MRC-269	244	New Haven, IN	66.79	11.72	1.34	1.61	<0.01	0.013	0.036	0.049	70.92
MRC-352	245	New Haven, IN	42.46	34.86	2.91	0.32	<0.01	0.005	0.026	0.031	89.00
MRC-176	246	New Haven, IN	66.50	13.22	1.12	1.43	<0.01	0.009	0.034	0.043	41.50
MRC-353	247	New Haven, IN	50.19	23.63	1.02	0.44	<0.01	0.007	0.012	0.019	58.66

TANTALUM SOURCE MATERIALS ANALYSES

Lot #	Sample ID	Location	Percent								[Th + U]	2 mm sieve
			Ta ₂ O ₅	Nb ₂ O ₅ (Cb ₂ O ₅)	SnO ₂	TiO ₂	Sb	Th	U			
DMS - 206	1	New Haven, IN	56.91	24.68	0.98	0.33	<0.01	0.002	0.024	0.026	91.72	
3963 - 216	2	New Haven, IN	43.82	31.84	0.95	0.27	<0.01	0.004	0.008	0.012	90.75	
10032 - Rio E	3	New Haven, IN	51.57	28.54	0.68	0.74	<0.01	0.013	0.041	0.054	99.83	
1099-10 - 1	4	New Haven, IN	50.65	22.28	5.13	0.53	<0.01	0.001	0.033	0.034	99.83	
1-GS-00P - 3902	5	New Haven, IN	70.03	6.63	7.28	0.32	<0.01	<0.001	0.015	0.015	88.24	
3972 - 001	6	New Haven, IN	55.71	11.75	0.72	3.25	<0.01	0.026	0.021	0.047	98.23	
949-10 - 2	7	New Haven, IN	62.41	18.33	2.34	0.55	<0.01	0.017	0.028	0.045	99.87	
3148 - 2272	8	New Haven, IN	50.97	25.33	4.72	1.48	0.09	0.009	0.011	0.020	99.79	
3508 - 329	9	New Haven, IN	51.58	24.59	5.98	1.30	0.11	0.007	0.010	0.017	99.88	
DMS - 203B	10	New Haven, IN	49.04	27.44	0.53	0.90	<0.01	0.003	0.042	0.045	79.59	
1162 - 0001	11	New Haven, IN	63.98	13.50	6.00	0.66	<0.01	0.006	0.017	0.023	99.34	
1116 - 000A	12	New Haven, IN	48.48	26.62	2.80	0.94	<0.01	0.001	0.076	0.077	77.31	
2167 - 1533	13	New Haven, IN	45.46	30.28	0.55	0.62	<0.01	0.002	0.056	0.058	98.87	
NSP - 3 NONG	14	New Haven, IN	35.08	31.48	0.01	1.54	<0.01	0.024	0.107	0.131	99.83	
1087 - RPS	15	New Haven, IN	53.23	12.99	6.63	0.26	<0.01	0.010	0.093	0.103	80.24	
M New York - 120 *	16	New Haven, IN	99.25	0.16	<0.01	0.17	<0.01	0.002	<0.001	0.002	99.63	
(* Depot records show this lot as tantalum oxide, which is confirmed by the analytical data)												
3927 - 207	17	New Haven, IN	70.14	10.72	0.77	0.34	<0.01	0.001	0.009	0.010	72.57	
MGK - 199 **	18	New Haven, IN	85.80	2.26	0.06	1.72	<0.01	<0.001	0.001	0.001	61.96	
(** Depot records show this lot as tantalum, chemically processed)												
10717 - 138	19	New Haven, IN	40.80	34.56	3.02	0.32	<0.01	0.006	0.050	0.056	82.01	
GEO - 22C	20	New Haven, IN	52.76	21.80	2.19	0.52	<0.01	0.001	0.032	0.033	99.34	
MRC - 280	21	New Haven, IN	36.33	35.10	0.46	0.30	<0.01	0.001	0.024	0.025	38.10	
1107 - 6569	22	New Haven, IN	61.14	15.18	2.36	1.12	0.01	0.016	0.050	0.066	82.58	
2198 - 0001	23	New Haven, IN	55.14	22.95	2.16	1.20	<0.01	0.006	0.029	0.035	99.36	
283-1 - 107	24	New Haven, IN	54.90	25.38	0.53	0.48	<0.01	0.002	0.038	0.040	88.58	
Low			3.02	0.64	<0.01	0.08	<0.01	<0.001	<0.001			
High			85.80	59.32	16.12	18.52	0.26	0.148	0.401			