APPENDIX 7.2

ICP-MS STATISTICAL ANALYSIS

Northern Ireland Chalk formation t-tests – patinated vs unpatinated flint

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.3435	1.256625
Variance	0.147295	0.933242896
Observations	4	4
Hypothesized Mean Difference	0	
df	4	
t Stat	-1.75687243	
P(T<=t) one-tail	0.076888597	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.153777194	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.8495	2.3695
Variance	2.330635	1.874988167
Observations	4	4
Hypothesized Mean Difference	0	
df	6	
t Stat	-0.50712867	
P(T<=t) one-tail	0.315079614	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.630159229	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	1.00175	0.8935
Variance	0.09855225	0.022158833
Observations	4	4
Hypothesized Mean Difference	0	
df	4	
t Stat	0.62313813	
P(T<=t) one-tail	0.283481466	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.566962932	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.10825	0.061125
Variance	0.004318917	0.000476729
Observations	4	4
Hypothesized Mean Difference	0	
df	4	
t Stat	1.360999005	
P(T<=t) one-tail	0.122572274	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.245144549	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.00175	0.38075
Variance	9.16667E-07	0.235121583
Observations	4	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-1.56322723	
P(T<=t) one-tail	0.107971739	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.215943479	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.093	0.0965
Variance	0.006566	0.0017115
Observations	4	4
Hypothesized Mean Difference	0	
df	4	
t Stat	-0.07693934	
P(T<=t) one-tail	0.471183275	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.942366551	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.0015	0.020625
Variance	1.66667E-06	0.000523229
Observations	4	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-1.6695325	
P(T<=t) one-tail	0.09680216	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.19360432	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.01975	0.3925
Variance	6.09167E-05	0.225619833
Observations	4	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-1.56927982	
P(T<=t) one-tail	0.107298438	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.214596876	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.00075	0.0055
Variance	0.00000225	3.76667E-05
Observations	4	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-1.50364901	
P(T<=t) one-tail	0.114854901	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.229709802	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.1015	0.06125
Variance	0.005941667	0.00145175
Observations	4	4
Hypothesized Mean Difference	0	
df	4	
t Stat	0.936210029	
P(T<=t) one-tail	0.201084003	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.402168006	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.02175	0.112375
Variance	0.000176917	0.018229563
Observations	4	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-1.33595753	
P(T<=t) one-tail	0.136932772	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.273865544	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	3.324	23.57225
Variance	4.115214667	684.4268641
Observations	4	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-1.54330672	
P(T<=t) one-tail	0.11022107	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.22044214	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	10.31125	6.207
Variance	27.66654892	0.649766
Observations	4	4
Hypothesized Mean Difference	0	
df	3	
t Stat	1.542571971	
P(T<=t) one-tail	0.110305021	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.220610043	
t Critical two-tail	3.182446305	

South Downs - patinated vs unpatinated flint

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	11.36383333	5.22549
Variance	483.6687878	27.87586426
Observations	6	5
Hypothesized Mean Difference	0	
df	6	
t Stat	0.661197507	
P(T<=t) one-tail	0.266519019	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.533038038	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	4.1905	6.04708
Variance	3.9151319	0.892031957
Observations	6	5
Hypothesized Mean Difference	0	
df	7	
t Stat	-2.03672256	
P(T<=t) one-tail	0.040552104	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.081104207	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.168833333	0.04204
Variance	0.168204167	0.007817433
Observations	6	5
Hypothesized Mean Difference	0	
df	6	
t Stat	0.737002225	
P(T<=t) one-tail	0.244463176	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.488926351	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.072	0.05965
Variance	0.003464	0.001212488
Observations	6	5
Hypothesized Mean Difference	0	
df	8	
t Stat	0.431325201	
P(T<=t) one-tail	0.33880969	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.67761938	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.01	0.00282
Variance	0.0004248	0.000018962
Observations	6	5
Hypothesized Mean Difference	0	
df	6	
t Stat	0.831337084	
P(T<=t) one-tail	0.218804586	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.437609172	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.1785	0.05989
Variance	0.1612435	0.007589436
Observations	6	5
Hypothesized Mean Difference	0	
df	6	
t Stat	0.703922446	
P(T<=t) one-tail	0.253932801	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.507865602	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.002666667	0.00102
Variance	3.14667E-05	0.000002252
Observations	6	5
Hypothesized Mean Difference	0	
df	6	
t Stat	0.690024898	
P(T<=t) one-tail	0.257983184	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.515966367	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.047	0.06285
Variance	0.0043148	0.002753238
Observations	6	5
Hypothesized Mean Difference	0	
df	9	
t Stat	-0.44480011	
P(T<=t) one-tail	0.333484376	
t Critical one-tail	1.833112933	
P(T<=t) two-tail	0.666968752	
t Critical two-tail	2.262157163	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.0475	0.05409
Variance	0.0103363	0.011670503
Observations	6	5
Hypothesized Mean Difference	0	
df	8	
t Stat	-0.10346482	
P(T<=t) one-tail	0.460070387	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.920140773	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.041166667	0.03459
Variance	0.000565367	4.60655E-05
Observations	6	5
Hypothesized Mean Difference	0	
df	6	
t Stat	0.646635781	
P(T<=t) one-tail	0.270898913	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.541797827	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.600666667	0.34926
Variance	0.826827867	0.159334788
Observations	6	5
Hypothesized Mean Difference	0	
df	7	
t Stat	0.610340529	
P(T<=t) one-tail	0.280460337	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.560920673	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.246833333	1.03242
Variance	1.668618567	0.114898757
Observations	6	5
Hypothesized Mean Difference	0	
df	6	
t Stat	0.390758814	
P(T<=t) one-tail	0.354736523	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.709473046	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.650833333	0.84056
Variance	0.019234167	0.017714268
Observations	6	5
Hypothesized Mean Difference	0	
df	9	
t Stat	-2.30952785	
P(T<=t) one-tail	0.023136122	
t Critical one-tail	1.833112933	
P(T<=t) two-tail	0.046272245	
t Critical two-tail	2.262157163	

Northern Chalk province – Yorkshire Wolds vs Lincolnshire Wolds

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	2.4965	2.832071429
Variance	0.256220091	0.691291148
Observations	12	14
Hypothesized Mean Difference	0	
df	22	
t Stat	-1.26178202	
P(T<=t) one-tail	0.110120778	
t Critical one-tail	1.717144374	
P(T<=t) two-tail	0.220241557	
t Critical two-tail	2.073873068	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.278916667	0.394642857
Variance	0.044079902	0.091575478
Observations	12	14
Hypothesized Mean Difference	0	
df	23	
t Stat	-1.14505032	
P(T<=t) one-tail	0.131982111	
t Critical one-tail	1.713871528	
P(T<=t) two-tail	0.263964221	
t Critical two-tail	2.06865761	

t-Test: Two-Sample Assuming Unequal Variances		
BERYLLIUM		
	Variable 1	*Variable 2*
Mean	0.000166667	0
Variance	1.51515E-07	0
Observations	12	11
Hypothesized Mean Difference	0	
df	11	
t Stat	1.483239697	
P(T<=t) one-tail	0.083043407	
t Critical one-tail	1.795884819	
P(T<=t) two-tail	0.166086814	
t Critical two-tail	2.20098516	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	14.11066667	23.447625
Variance	281.9960031	353.069228
Observations	6	8
Hypothesized Mean Difference	0	
df	12	
t Stat	-0.97806477	
P(T<=t) one-tail	0.173674482	
t Critical one-tail	1.782287556	
P(T<=t) two-tail	0.347348964	
t Critical two-tail	2.17881283	

t-Test: Two-Sample Assuming Unequal Variances		
ZINC		
	Variable 1	*Variable 2*
Mean	0.0065	0.2565
Variance	0.0000045	0.065715667
Observations	2	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-1.9503197	
P(T<=t) one-tail	0.073114038	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.146228077	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.041083333	1.128428571
Variance	0.098257902	0.12438411
Observations	12	14
Hypothesized Mean Difference	0	
df	24	
t Stat	-0.66847882	
P(T<=t) one-tail	0.255103427	
t Critical one-tail	1.71088208	
P(T<=t) two-tail	0.510206853	
t Critical two-tail	2.063898562	

t-Test: Two-Sample Assuming Unequal Variances		
POTASSIUM		
	Variable 1	*Variable 2*
Mean	0.41475	0.570857143
Variance	0.041033841	0.19152644
Observations	12	14
Hypothesized Mean Difference	0	
df	19	
t Stat	-1.19378302	
P(T<=t) one-tail	0.123627746	
t Critical one-tail	1.729132812	
P(T<=t) two-tail	0.247255492	
t Critical two-tail	2.093024054	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.9515	0.79
Variance	0.048727545	0.067354
Observations	12	14
Hypothesized Mean Difference	0	
df	24	
t Stat	1.714631689	
P(T<=t) one-tail	0.049649775	
t Critical one-tail	1.71088208	
P(T<=t) two-tail	0.09929955	
t Critical two-tail	2.063898562	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.062333333	0.062571429
Variance	0.001034424	0.000635341
Observations	12	14
Hypothesized Mean Difference	0	
df	21	
t Stat	-0.0207563	
P(T<=t) one-tail	0.491818006	
t Critical one-tail	1.720742903	
P(T<=t) two-tail	0.983636011	
t Critical two-tail	2.079613845	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	7.799666667	6.030357143
Variance	5.391640606	2.97153394
Observations	12	14
Hypothesized Mean Difference	0	
df	20	
t Stat	2.175307073	
P(T<=t) one-tail	0.02088704	
t Critical one-tail	1.724718243	
P(T<=t) two-tail	0.041774079	
t Critical two-tail	2.085963447	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.00225	0.002357143
Variance	9.31818E-07	3.32418E-06
Observations	12	14
Hypothesized Mean Difference	0	
df	20	
t Stat	-0.19087282	
P(T<=t) one-tail	0.425274752	
t Critical one-tail	1.724718243	
P(T<=t) two-tail	0.850549505	
t Critical two-tail	2.085963447	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.0255	0.0275
Variance	9.71818E-05	9.65769E-05
Observations	12	14
Hypothesized Mean Difference	0	
df	23	
t Stat	-0.51645224	
P(T<=t) one-tail	0.305234417	
t Critical one-tail	1.713871528	
P(T<=t) two-tail	0.610468834	
t Critical two-tail	2.06865761	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.07425	0.116285714
Variance	0.008482932	0.044848989
Observations	12	14
Hypothesized Mean Difference	0	
df	18	
t Stat	-0.67221357	
P(T<=t) one-tail	0.25499254	
t Critical one-tail	1.734063607	
P(T<=t) two-tail	0.50998508	
t Critical two-tail	2.10092204	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.00075	0.000928571
Variance	2.04545E-07	3.79121E-07
Observations	12	14
Hypothesized Mean Difference	0	
df	24	
t Stat	-0.85009423	
P(T<=t) one-tail	0.201836957	
t Critical one-tail	1.71088208	
P(T<=t) two-tail	0.403673914	
t Critical two-tail	2.063898562	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.025	0.035857143
Variance	0.000400364	0.000580593
Observations	12	14
Hypothesized Mean Difference	0	
df	24	
t Stat	-1.2550596	
P(T<=t) one-tail	0.11077051	
t Critical one-tail	1.71088208	
P(T<=t) two-tail	0.221541021	
t Critical two-tail	2.063898562	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.003333333	0.003357143
Variance	1.33333E-06	6.86264E-06
Observations	12	14
Hypothesized Mean Difference	0	
df	18	
t Stat	-0.03070473	
P(T<=t) one-tail	0.487921457	
t Critical one-tail	1.734063607	
P(T<=t) two-tail	0.975842914	
t Critical two-tail	2.10092204	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.000166667	7.14286E-05
Variance	3.33333E-07	7.14286E-08
Observations	12	14
Hypothesized Mean Difference	0	
df	15	
t Stat	0.525225731	
P(T<=t) one-tail	0.303551642	
t Critical one-tail	1.753050356	
P(T<=t) two-tail	0.607103285	
t Critical two-tail	2.131449546	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.02625	0.050142857
Variance	3.875E-05	0.001773516
Observations	12	14
Hypothesized Mean Difference	0	
df	14	
t Stat	-2.0962767	
P(T<=t) one-tail	0.027354301	
t Critical one-tail	1.761310136	
P(T<=t) two-tail	0.054708602	
t Critical two-tail	2.144786688	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.002833333	0.001285714
Variance	3.06061E-06	6.81319E-07
Observations	12	14
Hypothesized Mean Difference	0	
df	15	
t Stat	2.808213618	
P(T<=t) one-tail	0.006619232	
t Critical one-tail	1.753050356	
P(T<=t) two-tail	0.013238464	
t Critical two-tail	2.131449546	

South Downs flint vs North Downs flint

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.462071429	0.747333333
Variance	0.762926071	1.143990667
Observations	14	6
Hypothesized Mean Difference	0	
df	8	
t Stat	-0.576128184	
P(T<=t) one-tail	0.290185424	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.580370847	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	0.9875	1.451833333
Variance	0.635918115	0.339682167
Observations	14	6
Hypothesized Mean Difference	0	
df	13	
t Stat	-1.453624592	
P(T<=t) one-tail	0.084881386	
t Critical one-tail	1.770933396	
P(T<=t) two-tail	0.169762772	
t Critical two-tail	2.160368656	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.8695	0.969833333
Variance	0.0715255	0.076792967
Observations	14	6
Hypothesized Mean Difference	0	
df	9	
t Stat	-0.749763371	
P(T<=t) one-tail	0.236270038	
t Critical one-tail	1.833112933	
P(T<=t) two-tail	0.472540075	
t Critical two-tail	2.262157163	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.036285714	0.038333333
Variance	0.000134681	7.62667E-05
Observations	14	6
Hypothesized Mean Difference	0	
df	13	
t Stat	-0.43330438	
P(T<=t) one-tail	0.335948303	
t Critical one-tail	1.770933396	
P(T<=t) two-tail	0.671896605	
t Critical two-tail	2.160368656	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.073071429	0.002166667
Variance	0.070106687	5.66667E-07
Observations	14	6
Hypothesized Mean Difference	0	
df	13	
t Stat	1.001972043	
P(T<=t) one-tail	0.167321693	
t Critical one-tail	1.770933396	
P(T<=t) two-tail	0.334643386	
t Critical two-tail	2.160368656	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.067142857	0.122
Variance	0.004899824	0.0156216
Observations	14	6
Hypothesized Mean Difference	0	
df	6	
t Stat	-1.009388304	
P(T<=t) one-tail	0.175873739	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.351747479	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.004285714	0.003166667
Variance	0.000173451	6.16667E-06
Observations	14	6
Hypothesized Mean Difference	0	
df	15	
t Stat	0.305505614	
P(T<=t) one-tail	0.382089878	
t Critical one-tail	1.753050356	
P(T<=t) two-tail	0.764179756	
t Critical two-tail	2.131449546	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.089142857	0.019166667
Variance	0.066326747	0.000417367
Observations	14	6
Hypothesized Mean Difference	0	
df	13	
t Stat	1.009264125	
P(T<=t) one-tail	0.165632499	
t Critical one-tail	1.770933396	
P(T<=t) two-tail	0.331264997	
t Critical two-tail	2.160368656	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.001571429	0
Variance	1.51868E-05	0
Observations	14	6
Hypothesized Mean Difference	0	
df	13	
t Stat	1.508777982	
P(T<=t) one-tail	0.077635154	
t Critical one-tail	1.770933396	
P(T<=t) two-tail	0.155270308	
t Critical two-tail	2.160368656	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.066214286	0.141833333
Variance	0.019317566	0.034784167
Observations	14	6
Hypothesized Mean Difference	0	
df	7	
t Stat	-0.892594209	
P(T<=t) one-tail	0.20085801	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.401716021	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.093285714	0.002166667
Variance	0.104863604	2.16667E-06
Observations	14	6
Hypothesized Mean Difference	0	
df	13	
t Stat	1.052810798	
P(T<=t) one-tail	0.155801946	
t Critical one-tail	1.770933396	
P(T<=t) two-tail	0.311603893	
t Critical two-tail	2.160368656	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	6.731285714	7.054666667
Variance	200.2569059	36.70358947
Observations	14	6
Hypothesized Mean Difference	0	
df	18	
t Stat	-0.071560345	
P(T<=t) one-tail	0.47187046	
t Critical one-tail	1.734063607	
P(T<=t) two-tail	0.943740919	
t Critical two-tail	2.10092204	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	6.180571429	8.102666667
Variance	3.744984418	9.980155067
Observations	14	6
Hypothesized Mean Difference	0	
df	7	
t Stat	-1.38324697	
P(T<=t) one-tail	0.104548522	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.209097044	
t Critical two-tail	2.364624252	

South Downs flint vs Southwestern Chalk flint

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.462071429	1.5015
Variance	0.762926071	1.7653205
Observations	14	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-1.073714812	
P(T<=t) one-tail	0.238689728	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.477379457	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	0.9875	2.721
Variance	0.635918115	0.868562
Observations	14	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-2.502864288	
P(T<=t) one-tail	0.12099331	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.241986619	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.8695	0.8675
Variance	0.0715255	8.45E-05
Observations	14	2
Hypothesized Mean Difference	0	
df	13	
t Stat	0.027866036	
P(T<=t) one-tail	0.489096119	
t Critical one-tail	1.770933396	
P(T<=t) two-tail	0.978192239	
t Critical two-tail	2.160368656	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.036285714	0.0495
Variance	0.000134681	0.0003645
Observations	14	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-0.95398171	
P(T<=t) one-tail	0.257495141	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.514990283	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.073071429	0.51
Variance	0.070106687	0.516128
Observations	14	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-0.851870237	
P(T<=t) one-tail	0.275407282	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.550814565	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.067142857	0.1175
Variance	0.004899824	0.0022445
Observations	14	2
Hypothesized Mean Difference	0	
df	2	
t Stat	-1.312417921	
P(T<=t) one-tail	0.159883065	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.31976613	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.004285714	0.028
Variance	0.000173451	0.00125
Observations	14	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-0.939307208	
P(T<=t) one-tail	0.259958614	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.519917228	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.089142857	0.5305
Variance	0.066326747	0.4930245
Observations	14	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-0.88051596	
P(T<=t) one-tail	0.270197592	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.540395184	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.001571429	0.007
Variance	1.51868E-05	0.000098
Observations	14	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-0.767065949	
P(T<=t) one-tail	0.291718972	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.583437943	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.066214286	0.1025
Variance	0.019317566	0.0078125
Observations	14	2
Hypothesized Mean Difference	0	
df	2	
t Stat	-0.499078625	
P(T<=t) one-tail	0.333606417	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.667212835	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.093285714	0.2205
Variance	0.104863604	0.0937445
Observations	14	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-0.545614802	
P(T<=t) one-tail	0.34101369	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.68202738	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	6.731285714	30.473
Variance	200.2569059	1407.3635
Observations	14	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-0.886041673	
P(T<=t) one-tail	0.269209552	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.538419104	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	6.180571429	6.49
Variance	3.744984418	0.003528
Observations	14	2
Hypothesized Mean Difference	0	
df	13	
t Stat	-0.596310097	
P(T<=t) one-tail	0.280604282	
t Critical one-tail	1.770933396	
P(T<=t) two-tail	0.561208564	
t Critical two-tail	2.160368656	

South Downs flint vs Salisbury Plain/Pewsey flint

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.417666667	0.462071429
Variance	0.060982267	0.762926071
Observations	6	14
Hypothesized Mean Difference	0	
df	17	
t Stat	-0.174629241	
P(T<=t) one-tail	0.431716917	
t Critical one-tail	1.739606726	
P(T<=t) two-tail	0.863433834	
t Critical two-tail	2.109815578	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.5765	0.9875
Variance	0.5169111	0.635918115
Observations	6	14
Hypothesized Mean Difference	0	
df	11	
t Stat	1.623787938	
P(T<=t) one-tail	0.066352285	
t Critical one-tail	1.795884819	
P(T<=t) two-tail	0.13270457	
t Critical two-tail	2.20098516	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.7685	0.8695
Variance	0.0687291	0.0715255
Observations	6	14
Hypothesized Mean Difference	0	
df	10	
t Stat	-0.784767841	
P(T<=t) one-tail	0.225390311	
t Critical one-tail	1.812461123	
P(T<=t) two-tail	0.450780622	
t Critical two-tail	2.228138852	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.029166667	0.036285714
Variance	4.45667E-05	0.000134681
Observations	6	14
Hypothesized Mean Difference	0	
df	16	
t Stat	-1.724196703	
P(T<=t) one-tail	0.051967632	
t Critical one-tail	1.745883676	
P(T<=t) two-tail	0.103935264	
t Critical two-tail	2.119905299	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.002166667	0.073071429
Variance	2.16667E-06	0.070106687
Observations	6	14
Hypothesized Mean Difference	0	
df	13	
t Stat	-1.001945366	
P(T<=t) one-tail	0.167327895	
t Critical one-tail	1.770933396	
P(T<=t) two-tail	0.334655791	
t Critical two-tail	2.160368656	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.1425	0.067142857
Variance	0.0042163	0.004899824
Observations	6	14
Hypothesized Mean Difference	0	
df	10	
t Stat	2.322583119	
P(T<=t) one-tail	0.021292484	
t Critical one-tail	1.812461123	
P(T<=t) two-tail	0.042584968	
t Critical two-tail	2.228138852	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.003	0.004285714
Variance	0.0000056	0.000173451
Observations	6	14
Hypothesized Mean Difference	0	
df	15	
t Stat	-0.352248397	
P(T<=t) one-tail	0.364776066	
t Critical one-tail	1.753050356	
P(T<=t) two-tail	0.729552131	
t Critical two-tail	2.131449546	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.014666667	0.089142857
Variance	2.62667E-05	0.066326747
Observations	6	14
Hypothesized Mean Difference	0	
df	13	
t Stat	-1.081524995	
P(T<=t) one-tail	0.149559241	
t Critical one-tail	1.770933396	
P(T<=t) two-tail	0.299118483	
t Critical two-tail	2.160368656	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.000166667	0.001571429
Variance	1.66667E-07	1.51868E-05
Observations	6	14
Hypothesized Mean Difference	0	
df	14	
t Stat	-1.331811999	
P(T<=t) one-tail	0.102099683	
t Critical one-tail	1.761310136	
P(T<=t) two-tail	0.204199365	
t Critical two-tail	2.144786688	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.059666667	0.066214286
Variance	0.002996267	0.019317566
Observations	6	14
Hypothesized Mean Difference	0	
df	18	
t Stat	-0.151041555	
P(T<=t) one-tail	0.440811388	
t Critical one-tail	1.734063607	
P(T<=t) two-tail	0.881622776	
t Critical two-tail	2.10092204	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.005833333	0.093285714
Variance	1.17667E-05	0.104863604
Observations	6	14
Hypothesized Mean Difference	0	
df	13	
t Stat	-1.010337374	
P(T<=t) one-tail	0.165384928	
t Critical one-tail	1.770933396	
P(T<=t) two-tail	0.330769855	
t Critical two-tail	2.160368656	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	3.942833333	6.731285714
Variance	4.001013767	200.2569059
Observations	6	14
Hypothesized Mean Difference	0	
df	14	
t Stat	-0.720674695	
P(T<=t) one-tail	0.241485303	
t Critical one-tail	1.761310136	
P(T<=t) two-tail	0.482970606	
t Critical two-tail	2.144786688	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	4.8415	6.180571429
Variance	6.6272107	3.744984418
Observations	6	14
Hypothesized Mean Difference	0	
df	8	
t Stat	-1.143197606	
P(T<=t) one-tail	0.143005628	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.286011257	
t Critical two-tail	2.306004135	

North Downs flint vs Southwestern Chalk flint

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.747333333	1.5015
Variance	1.143990667	1.7653205
Observations	6	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-0.727950146	
P(T<=t) one-tail	0.299706938	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.599413876	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.451833333	2.721
Variance	0.339682167	0.868562
Observations	6	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-1.81144223	
P(T<=t) one-tail	0.160559618	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.321119237	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.969833333	0.8675
Variance	0.076792967	8.45E-05
Observations	6	2
Hypothesized Mean Difference	0	
df	5	
t Stat	0.903059535	
P(T<=t) one-tail	0.203946415	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.407892831	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.038333333	0.0495
Variance	7.62667E-05	0.0003645
Observations	6	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-0.79974136	
P(T<=t) one-tail	0.285273494	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.570546987	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.002166667	0.51
Variance	5.66667E-07	0.516128
Observations	6	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-0.999671733	
P(T<=t) one-tail	0.250052254	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.500104508	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.122	0.1175
Variance	0.0156216	0.0022445
Observations	6	2
Hypothesized Mean Difference	0	
df	5	
t Stat	0.073722462	
P(T<=t) one-tail	0.472044841	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.944089682	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.003166667	0.028
Variance	6.16667E-06	0.00125
Observations	6	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-0.992517599	
P(T<=t) one-tail	0.251195328	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.502390655	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.019166667	0.5305
Variance	0.000417367	0.4930245
Observations	6	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-1.029730522	
P(T<=t) one-tail	0.245337882	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.490675765	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0	0.007
Variance	0	0.000098
Observations	6	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-1	
P(T<=t) one-tail	0.25	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.5	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.141833333	0.1025
Variance	0.034784167	0.0078125
Observations	6	2
Hypothesized Mean Difference	0	
df	4	
t Stat	0.399295174	
P(T<=t) one-tail	0.355038295	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.71007659	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.002166667	0.2205
Variance	2.16667E-06	0.0937445
Observations	6	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-1.008464168	
P(T<=t) one-tail	0.248658571	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.497317142	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	7.054666667	30.473
Variance	36.70358947	1407.3635
Observations	6	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-0.878998823	
P(T<=t) one-tail	0.270469817	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.540939634	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	8.102666667	6.49
Variance	9.980155067	0.003528
Observations	6	2
Hypothesized Mean Difference	0	
df	5	
t Stat	1.249745053	
P(T<=t) one-tail	0.133350922	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.266701844	
t Critical two-tail	2.570581836	

North Downs flint vs Salisbury Plain/Pewsey flint

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.417666667	0.747333333
Variance	0.060982267	1.143990667
Observations	6	6
Hypothesized Mean Difference	0	
df	6	
t Stat	-0.735634377	
P(T<=t) one-tail	0.244849932	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.489699865	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.5765	1.451833333
Variance	0.5169111	0.339682167
Observations	6	6
Hypothesized Mean Difference	0	
df	10	
t Stat	0.329942792	
P(T<=t) one-tail	0.374125428	
t Critical one-tail	1.812461123	
P(T<=t) two-tail	0.748250855	
t Critical two-tail	2.228138852	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.7685	0.969833333
Variance	0.0687291	0.076792967
Observations	6	6
Hypothesized Mean Difference	0	
df	10	
t Stat	-1.29278672	
P(T<=t) one-tail	0.112577278	
t Critical one-tail	1.812461123	
P(T<=t) two-tail	0.225154555	
t Critical two-tail	2.228138852	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.029166667	0.038333333
Variance	4.45667E-05	7.62667E-05
Observations	6	6
Hypothesized Mean Difference	0	
df	9	
t Stat	-2.04264872	
P(T<=t) one-tail	0.035729201	
t Critical one-tail	1.833112933	
P(T<=t) two-tail	0.071458401	
t Critical two-tail	2.262157163	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.002166667	0.002166667
Variance	2.16667E-06	5.66667E-07
Observations	6	6
Hypothesized Mean Difference	0	
df	7	
t Stat	-6.42539E-16	
P(T<=t) one-tail	0.5	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	1	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.1425	0.122
Variance	0.0042163	0.0156216
Observations	6	6
Hypothesized Mean Difference	0	
df	8	
t Stat	0.356518145	
P(T<=t) one-tail	0.365336353	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.730672705	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.003	0.003166667
Variance	0.0000056	6.16667E-06
Observations	6	6
Hypothesized Mean Difference	0	
df	10	
t Stat	-0.11901389	
P(T<=t) one-tail	0.453810622	
t Critical one-tail	1.812461123	
P(T<=t) two-tail	0.907621244	
t Critical two-tail	2.228138852	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.014666667	0.019166667
Variance	2.62667E-05	0.000417367
Observations	6	6
Hypothesized Mean Difference	0	
df	6	
t Stat	-0.523330509	
P(T<=t) one-tail	0.309750557	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.619501114	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.000166667	0
Variance	1.66667E-07	0
Observations	6	6
Hypothesized Mean Difference	0	
df	5	
t Stat	1	
P(T<=t) one-tail	0.181608734	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.363217468	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.059666667	0.141833333
Variance	0.002996267	0.034784167
Observations	6	6
Hypothesized Mean Difference	0	
df	6	
t Stat	-1.035470729	
P(T<=t) one-tail	0.170183697	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.340367394	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.005833333	0.002166667
Variance	1.17667E-05	2.16667E-06
Observations	6	6
Hypothesized Mean Difference	0	
df	7	
t Stat	2.406132516	
P(T<=t) one-tail	0.023520225	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.04704045	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	3.942833333	7.054666667
Variance	4.001013767	36.70358947
Observations	6	6
Hypothesized Mean Difference	0	
df	6	
t Stat	-1.19473116	
P(T<=t) one-tail	0.138636215	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.27727243	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	4.8415	8.102666667
Variance	6.6272107	9.980155067
Observations	6	6
Hypothesized Mean Difference	0	
df	10	
t Stat	-1.960190339	
P(T<=t) one-tail	0.039205732	
t Critical one-tail	1.812461123	
P(T<=t) two-tail	0.078411464	
t Critical two-tail	2.228138852	

Southwestern Chalk flint vs Salisbury Plain/Pewsey flint

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.417666667	1.5015
Variance	0.060982267	1.7653205
Observations	6	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-1.147042699	
P(T<=t) one-tail	0.228234167	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.456468334	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.5765	2.721
Variance	0.5169111	0.868562
Observations	6	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-1.58647578	
P(T<=t) one-tail	0.179024313	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.358048627	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.7685	0.8675
Variance	0.0687291	8.45E-05
Observations	6	2
Hypothesized Mean Difference	0	
df	5	
t Stat	-0.923296183	
P(T<=t) one-tail	0.199110174	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.398220347	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.029166667	0.0495
Variance	4.45667E-05	0.0003645
Observations	6	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-1.476387481	
P(T<=t) one-tail	0.189505127	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.379010253	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.002166667	0.51
Variance	2.16667E-06	0.516128
Observations	6	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-0.999671217	
P(T<=t) one-tail	0.250052336	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.500104672	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.1425	0.1175
Variance	0.0042163	0.0022445
Observations	6	2
Hypothesized Mean Difference	0	
df	2	
t Stat	0.58521108	
P(T<=t) one-tail	0.308818731	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.617637462	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.003	0.028
Variance	0.0000056	0.00125
Observations	6	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-0.999254169	
P(T<=t) one-tail	0.250118747	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.500237494	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.014666667	0.5305
Variance	2.62667E-05	0.4930245
Observations	6	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-1.038930016	
P(T<=t) one-tail	0.243923134	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.487846269	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.000166667	0.007
Variance	1.66667E-07	0.000098
Observations	6	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-0.975913896	
P(T<=t) one-tail	0.253879959	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.507759918	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.059666667	0.1025
Variance	0.002996267	0.0078125
Observations	6	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-0.64532423	
P(T<=t) one-tail	0.317582593	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.635165186	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.005833333	0.2205
Variance	1.17667E-05	0.0937445
Observations	6	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-0.991511206	
P(T<=t) one-tail	0.251356784	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.502713568	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	3.942833333	30.473
Variance	4.001013767	1407.3635
Observations	6	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-0.999645836	
P(T<=t) one-tail	0.250056377	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.500112754	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	4.8415	6.49
Variance	6.6272107	0.003528
Observations	6	2
Hypothesized Mean Difference	0	
df	5	
t Stat	-1.567301931	
P(T<=t) one-tail	0.088913913	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.177827826	
t Critical two-tail	2.570581836	

Inland vs coastal flint from Northern Ireland Chalk formation

t-Test: Two-Sample Assuming Unequal Variances		
BERYLLIUM		
	Variable 1	*Variable 2*
Mean	0.000422222	0.000888889
Variance	5.22222E-07	1.36111E-06
Observations	45	9
Hypothesized Mean Difference	0	
df	9	
t Stat	-1.156450086	
P(T<=t) one-tail	0.13863531	
t Critical one-tail	1.833112933	
P(T<=t) two-tail	0.27727062	
t Critical two-tail	2.262157163	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.051169811	0.029090909
Variance	0.063708259	0.007158891
Observations	53	11
Hypothesized Mean Difference	0	
df	49	
t Stat	0.512928985	
P(T<=t) one-tail	0.305152903	
t Critical one-tail	1.676550893	
P(T<=t) two-tail	0.610305806	
t Critical two-tail	2.009575237	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	25.08124444	26.92625
Variance	197.6065005	5.476855357
Observations	45	8
Hypothesized Mean Difference	0	
df	51	
t Stat	-0.818922407	
P(T<=t) one-tail	0.20832052	
t Critical one-tail	1.67528495	
P(T<=t) two-tail	0.416641039	
t Critical two-tail	2.00758377	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.06725	0.047555556
Variance	0.03602675	0.001770528
Observations	44	9
Hypothesized Mean Difference	0	
df	50	
t Stat	0.618017177	
P(T<=t) one-tail	0.269684505	
t Critical one-tail	1.675905025	
P(T<=t) two-tail	0.539369009	
t Critical two-tail	2.008559112	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	9.815	8.327454545
Variance	327.3691907	268.6963411
Observations	55	11
Hypothesized Mean Difference	0	
df	15	
t Stat	0.269887482	
P(T<=t) one-tail	0.395462227	
t Critical one-tail	1.753050356	
P(T<=t) two-tail	0.790924454	
t Critical two-tail	2.131449546	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.815127273	0.666727273
Variance	0.704154854	0.394451218
Observations	55	11
Hypothesized Mean Difference	0	
df	18	
t Stat	0.672726982	
P(T<=t) one-tail	0.25483296	
t Critical one-tail	1.734063607	
P(T<=t) two-tail	0.50966592	
t Critical two-tail	2.10092204	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.587836364	2.444
Variance	1.108518102	1.7309644
Observations	55	11
Hypothesized Mean Difference	0	
df	13	
t Stat	-2.032071168	
P(T<=t) one-tail	0.031550829	
t Critical one-tail	1.770933396	
P(T<=t) two-tail	0.063101658	
t Critical two-tail	2.160368656	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.938309091	0.992818182
Variance	0.146375218	0.084575364
Observations	55	11
Hypothesized Mean Difference	0	
df	18	
t Stat	-0.535794175	
P(T<=t) one-tail	0.299329872	
t Critical one-tail	1.734063607	
P(T<=t) two-tail	0.598659743	
t Critical two-tail	2.10092204	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.0464	0.088090909
Variance	0.000288763	0.001725291
Observations	55	11
Hypothesized Mean Difference	0	
df	11	
t Stat	-3.274588545	
P(T<=t) one-tail	0.003702295	
t Critical one-tail	1.795884819	
P(T<=t) two-tail	0.007404589	
t Critical two-tail	2.20098516	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	6.361163636	6.597545455
Variance	7.288315139	3.166435073
Observations	55	11
Hypothesized Mean Difference	0	
df	21	
t Stat	-0.364583401	
P(T<=t) one-tail	0.359534014	
t Critical one-tail	1.720742903	
P(T<=t) two-tail	0.719068028	
t Critical two-tail	2.079613845	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.057527273	0.093363636
Variance	0.053423513	0.093233855
Observations	55	11
Hypothesized Mean Difference	0	
df	12	
t Stat	-0.368700497	
P(T<=t) one-tail	0.359386852	
t Critical one-tail	1.782287556	
P(T<=t) two-tail	0.718773705	
t Critical two-tail	2.17881283	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.076854545	0.087272727
Variance	0.004416312	0.001808418
Observations	55	11
Hypothesized Mean Difference	0	
df	21	
t Stat	-0.66600351	
P(T<=t) one-tail	0.256329584	
t Critical one-tail	1.720742903	
P(T<=t) two-tail	0.512659167	
t Critical two-tail	2.079613845	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.004781818	0.006818182
Variance	0.000126766	0.000216364
Observations	55	11
Hypothesized Mean Difference	0	
df	12	
t Stat	-0.434408351	
P(T<=t) one-tail	0.335850256	
t Critical one-tail	1.782287556	
P(T<=t) two-tail	0.671700512	
t Critical two-tail	2.17881283	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.1098	0.116090909
Variance	0.052947237	0.087135291
Observations	55	11
Hypothesized Mean Difference	0	
df	13	
t Stat	-0.066743272	
P(T<=t) one-tail	0.473900822	
t Critical one-tail	1.770933396	
P(T<=t) two-tail	0.947801644	
t Critical two-tail	2.160368656	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.045309091	0.109636364
Variance	0.014432069	0.004972855
Observations	55	11
Hypothesized Mean Difference	0	
df	24	
t Stat	-2.406580653	
P(T<=t) one-tail	0.012079555	
t Critical one-tail	1.71088208	
P(T<=t) two-tail	0.02415911	
t Critical two-tail	2.063898562	

Ballintoy vs Garron Point flint from Northern Ireland Chalk formation

t-Test: Two-Sample Assuming Unequal Variances		
BERYLLIUM		
	Variable 1	*Variable 2*
Mean	0	0.000166667
Variance	0	1.66667E-07
Observations	3	6
Hypothesized Mean Difference	0	
df	5	
t Stat	-1	
P(T<=t) one-tail	0.181608734	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.363217468	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
POTASSIUM		
	Variable 1	*Variable 2*
Mean	69.75525	0.683
Variance	2145.428657	0.205668667
Observations	4	4
Hypothesized Mean Difference	0	
df	3	
t Stat	2.982330326	
P(T<=t) one-tail	0.029243962	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.058487924	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	26.34333333	13.86625
Variance	0.829733333	180.4563563
Observations	3	4
Hypothesized Mean Difference	0	
df	3	
t Stat	1.85195229	
P(T<=t) one-tail	0.080555947	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.161111894	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.0665	0.0438
Variance	0.000809667	0.0003802
Observations	4	5
Hypothesized Mean Difference	0	
df	5	
t Stat	1.360338681	
P(T<=t) one-tail	0.115919028	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.231838055	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.0515	0.0875
Variance	0.001196333	0.028113
Observations	4	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.420561513	
P(T<=t) one-tail	0.351191948	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.702383897	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	43.04425	2.678
Variance	661.8950323	6.515662
Observations	4	6
Hypothesized Mean Difference	0	
df	3	
t Stat	3.127760123	
P(T<=t) one-tail	0.02607807	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.052156139	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	2.02075	0.328333333
Variance	0.867402917	0.074391867
Observations	4	6
Hypothesized Mean Difference	0	
df	3	
t Stat	3.534705329	
P(T<=t) one-tail	0.019254635	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.038509271	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	2.59075	1.024333333
Variance	2.844280917	1.433846667
Observations	4	6
Hypothesized Mean Difference	0	
df	5	
t Stat	1.607071805	
P(T<=t) one-tail	0.084474474	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.168948948	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.7695	1.010666667
Variance	0.010289667	0.110722267
Observations	4	6
Hypothesized Mean Difference	0	
df	6	
t Stat	-1.663173785	
P(T<=t) one-tail	0.073668596	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.147337192	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.05375	0.042
Variance	0.000523583	0.0002028
Observations	4	6
Hypothesized Mean Difference	0	
df	5	
t Stat	0.915580555	
P(T<=t) one-tail	0.200943248	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.401886496	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	5.8175	6.851833333
Variance	0.554041667	5.692144167
Observations	4	6
Hypothesized Mean Difference	0	
df	6	
t Stat	-0.991986078	
P(T<=t) one-tail	0.179754258	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.359508515	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.75875	0.001833333
Variance	0.254528917	5.66667E-07
Observations	4	6
Hypothesized Mean Difference	0	
df	3	
t Stat	3.000607407	
P(T<=t) one-tail	0.028820494	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.057640987	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.13475	0.039
Variance	0.001414917	0.0008728
Observations	4	6
Hypothesized Mean Difference	0	
df	5	
t Stat	4.285517834	
P(T<=t) one-tail	0.003911167	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.007822335	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.038	0.0015
Variance	0.000642	0.0000007
Observations	4	6
Hypothesized Mean Difference	0	
df	3	
t Stat	2.880033638	
P(T<=t) one-tail	0.03176364	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.06352728	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.77	0.0245
Variance	0.244228667	5.91E-05
Observations	4	6
Hypothesized Mean Difference	0	
df	3	
t Stat	3.016784555	
P(T<=t) one-tail	0.028452082	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.056904164	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.011	0.000333333
Variance	5.46667E-05	2.66667E-07
Observations	4	6
Hypothesized Mean Difference	0	
df	3	
t Stat	2.880662629	
P(T<=t) one-tail	0.031747335	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.063494669	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.26825	0.026833333
Variance	0.164972917	0.002518967
Observations	4	6
Hypothesized Mean Difference	0	
df	3	
t Stat	1.182746531	
P(T<=t) one-tail	0.16105334	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.322106679	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.608	0.001333333
Variance	0.655051333	1.86667E-06
Observations	4	6
Hypothesized Mean Difference	0	
df	3	
t Stat	1.499139506	
P(T<=t) one-tail	0.115395258	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.230790515	
t Critical two-tail	3.182446305	

Ballintoy vs White Rocks flint from Northern Ireland Chalk formation

t-Test: Two-Sample Assuming Unequal Variances		
BERYLLIUM		
	Variable 1	*Variable 2*
Mean	0.000461538	0.000166667
Variance	6.02564E-07	1.66667E-07
Observations	13	6
Hypothesized Mean Difference	0	
df	16	
t Stat	1.083027702	
P(T<=t) one-tail	0.147424089	
t Critical one-tail	1.745883676	
P(T<=t) two-tail	0.294848178	
t Critical two-tail	2.119905299	

t-Test: Two-Sample Assuming Unequal Variances		
POTASSIUM		
	Variable 1	*Variable 2*
Mean	0.533333333	0.683
Variance	0.122270267	0.205668667
Observations	6	4
Hypothesized Mean Difference	0	
df	5	
t Stat	-0.55856837	
P(T<=t) one-tail	0.30027258	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.600545159	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	22.98706667	13.86625
Variance	86.2263655	180.4563563
Observations	15	4
Hypothesized Mean Difference	0	
df	4	
t Stat	1.278894788	
P(T<=t) one-tail	0.13504493	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.27008986	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.03	0.0438
Variance	0.000997818	0.0003802
Observations	12	5
Hypothesized Mean Difference	0	
df	12	
t Stat	-1.09375268	
P(T<=t) one-tail	0.147766597	
t Critical one-tail	1.782287556	
P(T<=t) two-tail	0.295533193	
t Critical two-tail	2.17881283	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.022888889	0.0875
Variance	0.001054611	0.028113
Observations	9	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.76435138	
P(T<=t) one-tail	0.250139259	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.500278518	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
CAESIUM		
	Variable 1	*Variable 2*
Mean	0.004555556	0.0034
Variance	9.67778E-05	0.0000118
Observations	9	5
Hypothesized Mean Difference	0	
df	11	
t Stat	0.319108497	
P(T<=t) one-tail	0.377811062	
t Critical one-tail	1.795884819	
P(T<=t) two-tail	0.755622124	
t Critical two-tail	2.20098516	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.004692308	0.001333333
Variance	1.60641E-05	1.86667E-06
Observations	13	6
Hypothesized Mean Difference	0	
df	16	
t Stat	2.700772603	
P(T<=t) one-tail	0.007873533	
t Critical one-tail	1.745883676	
P(T<=t) two-tail	0.015747066	
t Critical two-tail	2.119905299	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	4.5438	2.678
Variance	12.7573916	6.515662
Observations	15	6
Hypothesized Mean Difference	0	
df	13	
t Stat	1.340798346	
P(T<=t) one-tail	0.101472632	
t Critical one-tail	1.770933396	
P(T<=t) two-tail	0.202945264	
t Critical two-tail	2.160368656	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.606066667	0.328333333
Variance	0.067756495	0.074391867
Observations	15	6
Hypothesized Mean Difference	0	
df	9	
t Stat	2.135415806	
P(T<=t) one-tail	0.03073891	
t Critical one-tail	1.833112933	
P(T<=t) two-tail	0.06147782	
t Critical two-tail	2.262157163	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.787533333	1.024333333
Variance	0.64906841	1.433846667
Observations	15	6
Hypothesized Mean Difference	0	
df	7	
t Stat	1.436563131	
P(T<=t) one-tail	0.096995204	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.193990408	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.895666667	1.010666667
Variance	0.161424381	0.110722267
Observations	15	6
Hypothesized Mean Difference	0	
df	11	
t Stat	-0.67280993	
P(T<=t) one-tail	0.257476869	
t Critical one-tail	1.795884819	
P(T<=t) two-tail	0.514953738	
t Critical two-tail	2.20098516	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.0468	0.042
Variance	0.000355029	0.0002028
Observations	15	6
Hypothesized Mean Difference	0	
df	12	
t Stat	0.633178321	
P(T<=t) one-tail	0.269248669	
t Critical one-tail	1.782287556	
P(T<=t) two-tail	0.538497338	
t Critical two-tail	2.17881283	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	6.018666667	6.851833333
Variance	7.639789381	5.692144167
Observations	15	6
Hypothesized Mean Difference	0	
df	11	
t Stat	-0.69000405	
P(T<=t) one-tail	0.252244506	
t Critical one-tail	1.795884819	
P(T<=t) two-tail	0.504489011	
t Critical two-tail	2.20098516	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.002	0.001833333
Variance	3.28571E-06	5.66667E-07
Observations	15	6
Hypothesized Mean Difference	0	
df	19	
t Stat	0.297670279	
P(T<=t) one-tail	0.384592591	
t Critical one-tail	1.729132812	
P(T<=t) two-tail	0.769185182	
t Critical two-tail	2.093024054	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.089733333	0.039
Variance	0.006897067	0.0008728
Observations	15	6
Hypothesized Mean Difference	0	
df	19	
t Stat	2.062141321	
P(T<=t) one-tail	0.026569965	
t Critical one-tail	1.729132812	
P(T<=t) two-tail	0.053139929	
t Critical two-tail	2.093024054	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.0028	0.0015
Variance	4.31429E-06	0.0000007
Observations	15	6
Hypothesized Mean Difference	0	
df	19	
t Stat	2.044556679	
P(T<=t) one-tail	0.02750314	
t Critical one-tail	1.729132812	
P(T<=t) two-tail	0.055006279	
t Critical two-tail	2.093024054	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.0562	0.0245
Variance	0.0014416	5.91E-05
Observations	15	6
Hypothesized Mean Difference	0	
df	17	
t Stat	3.079605727	
P(T<=t) one-tail	0.003397476	
t Critical one-tail	1.739606726	
P(T<=t) two-tail	0.006794952	
t Critical two-tail	2.109815578	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.000533333	0.000333333
Variance	4.09524E-07	2.66667E-07
Observations	15	6
Hypothesized Mean Difference	0	
df	11	
t Stat	0.746674041	
P(T<=t) one-tail	0.235459268	
t Critical one-tail	1.795884819	
P(T<=t) two-tail	0.470918536	
t Critical two-tail	2.20098516	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.0328	0.026833333
Variance	0.001717743	0.002518967
Observations	15	6
Hypothesized Mean Difference	0	
df	8	
t Stat	0.2581198	
P(T<=t) one-tail	0.401415329	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.802830657	
t Critical two-tail	2.306004135	

Ballintoy vs White Park Bay flint from Northern Ireland Chalk formation

t-Test: Two-Sample Assuming Unequal Variances		
POTASSIUM		
	Variable 1	*Variable 2*
Mean	0.598	0.683
Variance	0.173104	0.205668667
Observations	3	4
Hypothesized Mean Difference	0	
df	5	
t Stat	-0.257317742	
P(T<=t) one-tail	0.403593747	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.807187494	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	27.54933333	13.86625
Variance	484.9094235	180.4563563
Observations	6	4
Hypothesized Mean Difference	0	
df	8	
t Stat	1.219313434	
P(T<=t) one-tail	0.128726384	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.257452769	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.0258	0.0438
Variance	0.0001247	0.0003802
Observations	5	5
Hypothesized Mean Difference	0	
df	6	
t Stat	-1.791244302	
P(T<=t) one-tail	0.061720014	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.123440027	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.020166667	0.0875
Variance	0.001032967	0.028113
Observations	6	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.793508289	
P(T<=t) one-tail	0.24272486	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.48544972	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
CAESIUM		
	Variable 1	*Variable 2*
Mean	0.001666667	0.0034
Variance	3.86667E-06	0.0000118
Observations	6	5
Hypothesized Mean Difference	0	
df	6	
t Stat	-1	
P(T<=t) one-tail	0.177958842	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.355917684	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
BERYLLIUM		
	Variable 1	*Variable 2*
Mean	0.000625	0.000166667
Variance	0.000001125	1.66667E-07
Observations	8	6
Hypothesized Mean Difference	0	
df	10	
t Stat	1.116880782	
P(T<=t) one-tail	0.145080722	
t Critical one-tail	1.812461123	
P(T<=t) two-tail	0.290161444	
t Critical two-tail	2.228138852	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	4.248875	2.678
Variance	3.182408125	6.515662
Observations	8	6
Hypothesized Mean Difference	0	
df	9	
t Stat	1.289620833	
P(T<=t) one-tail	0.114667523	
t Critical one-tail	1.833112933	
P(T<=t) two-tail	0.229335045	
t Critical two-tail	2.262157163	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.694125	0.328333333
Variance	0.076577554	0.074391867
Observations	8	6
Hypothesized Mean Difference	0	
df	11	
t Stat	2.467803013	
P(T<=t) one-tail	0.015621529	
t Critical one-tail	1.795884819	
P(T<=t) two-tail	0.031243059	
t Critical two-tail	2.20098516	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.34375	1.024333333
Variance	0.563129071	1.433846667
Observations	8	6
Hypothesized Mean Difference	0	
df	8	
t Stat	0.574277205	
P(T<=t) one-tail	0.290781876	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.581563752	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.72975	1.010666667
Variance	0.038567929	0.110722267
Observations	8	6
Hypothesized Mean Difference	0	
df	8	
t Stat	-1.841346159	
P(T<=t) one-tail	0.051416435	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.102832871	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.0375	0.042
Variance	0.000119714	0.0002028
Observations	8	6
Hypothesized Mean Difference	0	
df	9	
t Stat	-0.644408975	
P(T<=t) one-tail	0.267693571	
t Critical one-tail	1.833112933	
P(T<=t) two-tail	0.535387142	
t Critical two-tail	2.262157163	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	4.72625	6.851833333
Variance	2.576081071	5.692144167
Observations	8	6
Hypothesized Mean Difference	0	
df	8	
t Stat	-1.885630002	
P(T<=t) one-tail	0.048034916	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.096069832	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.002	0.001833333
Variance	8.57143E-07	5.66667E-07
Observations	8	6
Hypothesized Mean Difference	0	
df	12	
t Stat	0.37120786	
P(T<=t) one-tail	0.358476782	
t Critical one-tail	1.782287556	
P(T<=t) two-tail	0.716953563	
t Critical two-tail	2.17881283	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.057625	0.039
Variance	0.002543696	0.0008728
Observations	8	6
Hypothesized Mean Difference	0	
df	12	
t Stat	0.865176688	
P(T<=t) one-tail	0.201953323	
t Critical one-tail	1.782287556	
P(T<=t) two-tail	0.403906647	
t Critical two-tail	2.17881283	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.00175	0.0015
Variance	1.64286E-06	0.0000007
Observations	8	6
Hypothesized Mean Difference	0	
df	12	
t Stat	0.440550823	
P(T<=t) one-tail	0.333684808	
t Critical one-tail	1.782287556	
P(T<=t) two-tail	0.667369616	
t Critical two-tail	2.17881283	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.055375	0.0245
Variance	0.001878268	5.91E-05
Observations	8	6
Hypothesized Mean Difference	0	
df	8	
t Stat	1.974008497	
P(T<=t) one-tail	0.041911126	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.083822253	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.0005	0.000333333
Variance	5.71429E-07	2.66667E-07
Observations	8	6
Hypothesized Mean Difference	0	
df	12	
t Stat	0.489618247	
P(T<=t) one-tail	0.316616081	
t Critical one-tail	1.782287556	
P(T<=t) two-tail	0.633232161	
t Critical two-tail	2.17881283	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.02275	0.026833333
Variance	0.000863643	0.002518967
Observations	8	6
Hypothesized Mean Difference	0	
df	8	
t Stat	-0.177740779	
P(T<=t) one-tail	0.43167231	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.863344621	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.003625	0.001333333
Variance	7.69643E-06	1.86667E-06
Observations	8	6
Hypothesized Mean Difference	0	
df	11	
t Stat	2.030996413	
P(T<=t) one-tail	0.033567877	
t Critical one-tail	1.795884819	
P(T<=t) two-tail	0.067135755	
t Critical two-tail	2.20098516	

Ballintoy vs Cloughastucan flint from Northern Ireland Chalk formation

t-Test: Two-Sample Assuming Unequal Variances		
POTASSIUM		
	Variable 1	*Variable 2*
Mean	41.6185	0.683
Variance	3222.680045	0.205668667
Observations	2	4
Hypothesized Mean Difference	0	
df	1	
t Stat	1.019763758	
P(T<=t) one-tail	0.246885379	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.493770758	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	33.144	13.86625
Variance	183.21293	180.4563563
Observations	5	4
Hypothesized Mean Difference	0	
df	7	
t Stat	2.132036981	
P(T<=t) one-tail	0.035228974	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.070457947	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.36225	0.0438
Variance	0.380036917	0.0003802
Observations	4	5
Hypothesized Mean Difference	0	
df	3	
t Stat	1.032724864	
P(T<=t) one-tail	0.188845385	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.377690771	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.035666667	0.0875
Variance	0.001161333	0.028113
Observations	3	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.60192584	
P(T<=t) one-tail	0.294836701	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.589673402	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
CAESIUM		
	Variable 1	*Variable 2*
Mean	0.03325	0.0034
Variance	0.00335425	0.0000118
Observations	4	5
Hypothesized Mean Difference	0	
df	3	
t Stat	1.029357775	
P(T<=t) one-tail	0.189520089	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.379040178	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.00075	0.000333333
Variance	0.00000025	2.66667E-07
Observations	4	6
Hypothesized Mean Difference	0	
df	7	
t Stat	1.274117979	
P(T<=t) one-tail	0.12164459	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.24328918	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	22.356	2.678
Variance	1506.30376	6.515662
Observations	5	6
Hypothesized Mean Difference	0	
df	4	
t Stat	1.131692253	
P(T<=t) one-tail	0.160505692	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.321011384	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	1.2456	0.328333333
Variance	0.9438343	0.074391867
Observations	5	6
Hypothesized Mean Difference	0	
df	5	
t Stat	2.045120285	
P(T<=t) one-tail	0.04811951	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.09623902	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	2.4336	1.024333333
Variance	1.4293483	1.433846667
Observations	5	6
Hypothesized Mean Difference	0	
df	9	
t Stat	1.945261619	
P(T<=t) one-tail	0.041800175	
t Critical one-tail	1.833112933	
P(T<=t) two-tail	0.083600349	
t Critical two-tail	2.262157163	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.886	1.010666667
Variance	0.0595685	0.110722267
Observations	5	6
Hypothesized Mean Difference	0	
df	9	
t Stat	-0.71539593	
P(T<=t) one-tail	0.246252527	
t Critical one-tail	1.833112933	
P(T<=t) two-tail	0.492505054	
t Critical two-tail	2.262157163	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.0526	0.042
Variance	0.0003428	0.0002028
Observations	5	6
Hypothesized Mean Difference	0	
df	7	
t Stat	1.047709126	
P(T<=t) one-tail	0.164797304	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.329594608	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	5.9724	6.851833333
Variance	6.6355783	5.692144167
Observations	5	6
Hypothesized Mean Difference	0	
df	8	
t Stat	-0.58295532	
P(T<=t) one-tail	0.287991421	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.575982842	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.0042	0.001833333
Variance	7.2E-06	5.66667E-07
Observations	5	6
Hypothesized Mean Difference	0	
df	5	
t Stat	1.910563644	
P(T<=t) one-tail	0.057151797	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.114303595	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.0824	0.039
Variance	0.0028283	0.0008728
Observations	5	6
Hypothesized Mean Difference	0	
df	6	
t Stat	1.6274822	
P(T<=t) one-tail	0.077379384	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.154758767	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.003	0.0015
Variance	0.0000035	0.0000007
Observations	5	6
Hypothesized Mean Difference	0	
df	5	
t Stat	1.659850006	
P(T<=t) one-tail	0.078919405	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.157838811	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.115	0.0245
Variance	0.0112325	5.91E-05
Observations	5	6
Hypothesized Mean Difference	0	
df	4	
t Stat	1.905220937	
P(T<=t) one-tail	0.064728537	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.129457075	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.0484	0.026833333
Variance	0.0033628	0.002518967
Observations	5	6
Hypothesized Mean Difference	0	
df	8	
t Stat	0.652521175	
P(T<=t) one-tail	0.26618141	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.53236282	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.0054	0.001333333
Variance	0.0000118	1.86667E-06
Observations	5	6
Hypothesized Mean Difference	0	
df	5	
t Stat	2.4882419	
P(T<=t) one-tail	0.027639991	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.055279982	
t Critical two-tail	2.570581836	

Ballintoy vs Portbraddan flint from Northern Ireland Chalk formation

t-Test: Two-Sample Assuming Unequal Variances		
POTASSIUM		
	Variable 1	*Variable 2*
Mean	0.683	1.0235
Variance	0.205668667	0.2642645
Observations	4	2
Hypothesized Mean Difference	0	
df	2	
t Stat	-0.794768438	
P(T<=t) one-tail	0.255039542	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.510079085	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	13.86625	18.503
Variance	180.4563563	106.24063
Observations	4	3
Hypothesized Mean Difference	0	
df	5	
t Stat	-0.51670328	
P(T<=t) one-tail	0.313698439	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.627396877	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.0438	0.0483333
Variance	0.0003802	0.0004723
Observations	5	3
Hypothesized Mean Difference	0	
df	4	
t Stat	-0.296680278	
P(T<=t) one-tail	0.390738966	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.781477932	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.0875	0.004
Variance	0.028113	0.000008
Observations	4	2
Hypothesized Mean Difference	0	
df	3	
t Stat	0.995724801	
P(T<=t) one-tail	0.19638689	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.392773781	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
CAESIUM		
	Variable 1	*Variable 2*
Mean	0.0034	0.004
Variance	0.0000118	0.000018
Observations	5	2
Hypothesized Mean Difference	0	
df	2	
t Stat	-0.178017249	
P(T<=t) one-tail	0.437554183	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.875108366	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
BERYLLIUM		
	Variable 1	*Variable 2*
Mean	0.000166667	0.0003333
Variance	1.66667E-07	3.333E-07
Observations	6	3
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.447213595	
P(T<=t) one-tail	0.342518821	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.685037642	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	2.678	8.515
Variance	6.515662	54.277825
Observations	6	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-1.332851565	
P(T<=t) one-tail	0.157068459	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.314136917	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.328333333	1.636
Variance	0.074391867	1.808044
Observations	6	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-1.667367217	
P(T<=t) one-tail	0.118686518	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.237373035	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.024333333	1.2963333
Variance	1.433846667	1.7071053
Observations	6	3
Hypothesized Mean Difference	0	
df	4	
t Stat	-0.302594239	
P(T<=t) one-tail	0.388640951	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.777281903	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	1.010666667	1.1863333
Variance	0.110722267	0.4273663
Observations	6	3
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.437924238	
P(T<=t) one-tail	0.345527453	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.691054905	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.042	0.0566667
Variance	0.0002028	0.0003943
Observations	6	3
Hypothesized Mean Difference	0	
df	3	
t Stat	-1.140953613	
P(T<=t) one-tail	0.168360221	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.336720443	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	6.851833333	8.164
Variance	5.692144167	17.557897
Observations	6	3
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.503144002	
P(T<=t) one-tail	0.324740295	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.649480589	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.001833333	0.002
Variance	5.66667E-07	0
Observations	6	3
Hypothesized Mean Difference	0	
df	5	
t Stat	-0.542326145	
P(T<=t) one-tail	0.305440592	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.610881183	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.039	0.1296667
Variance	0.0008728	0.0081923
Observations	6	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-1.690576209	
P(T<=t) one-tail	0.116492501	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.232985003	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.0015	0.002
Variance	0.0000007	0.000001
Observations	6	3
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.745355992	
P(T<=t) one-tail	0.255070102	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.510140203	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.0245	0.0543333
Variance	5.91E-05	0.0004603
Observations	6	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-2.334619323	
P(T<=t) one-tail	0.072343671	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.144687341	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.000333333	0.0006667
Variance	2.66667E-07	1.333E-06
Observations	6	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-0.476731295	
P(T<=t) one-tail	0.340280859	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.680561718	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.026833333	0.033
Variance	0.002518967	0.000741
Observations	6	3
Hypothesized Mean Difference	0	
df	7	
t Stat	-0.238805119	
P(T<=t) one-tail	0.409048679	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.818097357	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.001333333	0.0053333
Variance	1.86667E-06	1.733E-05
Observations	6	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-1.621029681	
P(T<=t) one-tail	0.123229731	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.246459461	
t Critical two-tail	4.30265273	

Garron Point vs White Park Bay flint from Northern Ireland Chalk formation

t-Test: Two-Sample Assuming Unequal Variances		
BERYLLIUM		
	Variable 1	*Variable 2*
Mean	0.000625	0
Variance	0.000001125	0
Observations	8	3
Hypothesized Mean Difference	0	
df	7	
t Stat	1.666666667	
P(T<=t) one-tail	0.069759792	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.139519583	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
POTASSIUM		
	Variable 1	*Variable 2*
Mean	0.598	69.75525
Variance	0.173104	2145.4287
Observations	3	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-2.985982878	
P(T<=t) one-tail	0.029158714	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.058317428	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	27.54933333	26.343333
Variance	484.9094235	0.8297333
Observations	6	3
Hypothesized Mean Difference	0	
df	5	
t Stat	0.133921642	
P(T<=t) one-tail	0.449344022	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.898688043	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.0258	0.0665
Variance	0.0001247	0.0008097
Observations	5	4
Hypothesized Mean Difference	0	
df	4	
t Stat	-2.699234167	
P(T<=t) one-tail	0.027068629	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.054137257	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.020166667	0.0515
Variance	0.001032967	0.0011963
Observations	6	4
Hypothesized Mean Difference	0	
df	6	
t Stat	-1.443389286	
P(T<=t) one-tail	0.099508903	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.199017807	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
CAESIUM		
	Variable 1	*Variable 2*
Mean	0.001666667	0.1046667
Variance	3.86667E-06	3.333E-07
Observations	6	3
Hypothesized Mean Difference	0	
df	6	
t Stat	-118.4960908	
P(T<=t) one-tail	1.21776E-11	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	2.43553E-11	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	4.248875	43.04425
Variance	3.182408125	661.89503
Observations	8	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-3.012270654	
P(T<=t) one-tail	0.028554282	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.057108564	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.694125	2.02075
Variance	0.076577554	0.8674029
Observations	8	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-2.787969258	
P(T<=t) one-tail	0.03426725	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.0685345	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.34375	2.59075
Variance	0.563129071	2.8442809
Observations	8	4
Hypothesized Mean Difference	0	
df	4	
t Stat	-1.410628644	
P(T<=t) one-tail	0.115588698	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.231177396	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.72975	0.7695
Variance	0.038567929	0.0102897
Observations	8	4
Hypothesized Mean Difference	0	
df	10	
t Stat	-0.462290325	
P(T<=t) one-tail	0.32688392	
t Critical one-tail	1.812461123	
P(T<=t) two-tail	0.653767839	
t Critical two-tail	2.228138852	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.0375	0.05375
Variance	0.000119714	0.0005236
Observations	8	4
Hypothesized Mean Difference	0	
df	4	
t Stat	-1.34550428	
P(T<=t) one-tail	0.1248367	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.249673399	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	4.72625	5.8175
Variance	2.576081071	0.5540417
Observations	8	4
Hypothesized Mean Difference	0	
df	10	
t Stat	-1.608050743	
P(T<=t) one-tail	0.069451649	
t Critical one-tail	1.812461123	
P(T<=t) two-tail	0.138903299	
t Critical two-tail	2.228138852	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.002	0.75875
Variance	8.57143E-07	0.2545289
Observations	8	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-2.999946399	
P(T<=t) one-tail	0.028835674	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.057671348	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.057625	0.13475
Variance	0.002543696	0.0014149
Observations	8	4
Hypothesized Mean Difference	0	
df	8	
t Stat	-2.975845236	
P(T<=t) one-tail	0.008856186	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.017712373	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.00175	0.038
Variance	1.64286E-06	0.000642
Observations	8	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-2.859517994	
P(T<=t) one-tail	0.032301244	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.064602488	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.055375	0.77
Variance	0.001878268	0.2442287
Observations	8	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-2.886532724	
P(T<=t) one-tail	0.031595669	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.063191337	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.0005	0.011
Variance	5.71429E-07	5.467E-05
Observations	8	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-2.832866037	
P(T<=t) one-tail	0.033016724	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.066033448	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.02275	0.26825
Variance	0.000863643	0.1649729
Observations	8	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-1.207278646	
P(T<=t) one-tail	0.156914485	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.31382897	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.003625	0.608
Variance	7.69643E-06	0.6550513
Observations	8	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-1.493473579	
P(T<=t) one-tail	0.116078143	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.232156286	
t Critical two-tail	3.182446305	

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t-Test: Two-Sample Assuming Unequal Variances		
BERYLLIUM		
	Variable 1	*Variable 2*
Mean	0.000461538	0
Variance	6.02564E-07	0
Observations	13	3
Hypothesized Mean Difference	0	
df	12	
t Stat	2.143768803	
P(T<=t) one-tail	0.026615993	
t Critical one-tail	1.782287556	
P(T<=t) two-tail	0.053231985	
t Critical two-tail	2.17881283	

t-Test: Two-Sample Assuming Unequal Variances		
POTASSIUM		
	Variable 1	*Variable 2*
Mean	0.533333333	69.75525
Variance	0.122270267	2145.4287
Observations	6	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-2.98887895	
P(T<=t) one-tail	0.029091343	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.058182685	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	22.98706667	26.343333
Variance	86.2263655	0.8297333
Observations	15	3
Hypothesized Mean Difference	0	
df	15	
t Stat	-1.36734421	
P(T<=t) one-tail	0.095829248	
t Critical one-tail	1.753050356	
P(T<=t) two-tail	0.191658495	
t Critical two-tail	2.131449546	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.03	0.0665
Variance	0.000997818	0.0008097
Observations	12	4
Hypothesized Mean Difference	0	
df	6	
t Stat	-2.15992144	
P(T<=t) one-tail	0.037042448	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.074084896	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.022888889	0.0515
Variance	0.001054611	0.0011963
Observations	9	4
Hypothesized Mean Difference	0	
df	5	
t Stat	-1.40233302	
P(T<=t) one-tail	0.109874054	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.219748107	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
CAESIUM		
	Variable 1	*Variable 2*
Mean	0.004555556	0.1046667
Variance	9.67778E-05	3.333E-07
Observations	9	3
Hypothesized Mean Difference	0	
df	8	
t Stat	-30.3727038	
P(T<=t) one-tail	7.49582E-10	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	1.49916E-09	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.004692308	0.608
Variance	1.60641E-05	0.6550513
Observations	13	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-1.49083491	
P(T<=t) one-tail	0.116397681	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.232795361	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	4.5438	43.04425
Variance	12.7573916	661.89503
Observations	15	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-2.98530025	
P(T<=t) one-tail	0.029174622	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.058349244	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.606066667	2.02075
Variance	0.067756495	0.8674029
Observations	15	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-3.00678229	
P(T<=t) one-tail	0.028679167	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.057358333	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.787533333	2.59075
Variance	0.64906841	2.8442809
Observations	15	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.92480192	
P(T<=t) one-tail	0.21163963	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.42327926	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.895666667	0.7695
Variance	0.161424381	0.0102897
Observations	15	4
Hypothesized Mean Difference	0	
df	17	
t Stat	1.092606346	
P(T<=t) one-tail	0.144904481	
t Critical one-tail	1.739606726	
P(T<=t) two-tail	0.289808961	
t Critical two-tail	2.109815578	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.0468	0.05375
Variance	0.000355029	0.0005236
Observations	15	4
Hypothesized Mean Difference	0	
df	4	
t Stat	-0.5590235	
P(T<=t) one-tail	0.302981414	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.605962829	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	6.018666667	5.8175
Variance	7.639789381	0.5540417
Observations	15	4
Hypothesized Mean Difference	0	
df	17	
t Stat	0.249934144	
P(T<=t) one-tail	0.40281675	
t Critical one-tail	1.739606726	
P(T<=t) two-tail	0.8056335	
t Critical two-tail	2.109815578	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.002	0.75875
Variance	3.28571E-06	0.2545289
Observations	15	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-2.99994376	
P(T<=t) one-tail	0.028835735	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.05767147	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.089733333	0.13475
Variance	0.006897067	0.0014149
Observations	15	4
Hypothesized Mean Difference	0	
df	12	
t Stat	-1.57828556	
P(T<=t) one-tail	0.070242047	
t Critical one-tail	1.782287556	
P(T<=t) two-tail	0.140484095	
t Critical two-tail	2.17881283	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.0028	0.038
Variance	4.31429E-06	0.000642
Observations	15	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-2.77598018	
P(T<=t) one-tail	0.034611119	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.069222237	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.0562	0.77
Variance	0.0014416	0.2442287
Observations	15	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-2.88646762	
P(T<=t) one-tail	0.031597346	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.063194691	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.000533333	0.011
Variance	4.09524E-07	5.467E-05
Observations	15	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-2.82841893	
P(T<=t) one-tail	0.033138025	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.066276051	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.0328	0.26825
Variance	0.001717743	0.1649729
Observations	15	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-1.1577646	
P(T<=t) one-tail	0.165381805	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.33076361	
t Critical two-tail	3.182446305	

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t-Test: Two-Sample Assuming Unequal Variances		
BERYLLIUM		
	Variable 1	*Variable 2*
Mean	0	0.000333333
Variance	0	3.33333E-07
Observations	3	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-1	
P(T<=t) one-tail	0.211324865	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.422649731	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	26.34333333	18.503
Variance	0.829733333	106.240627
Observations	3	3
Hypothesized Mean Difference	0	
df	2	
t Stat	1.312382777	
P(T<=t) one-tail	0.159887959	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.319775917	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
CAESIUM		
	Variable 1	*Variable 2*
Mean	0.104666667	0.004
Variance	3.33333E-07	0.000018
Observations	3	2
Hypothesized Mean Difference	0	
df	1	
t Stat	33.35032087	
P(T<=t) one-tail	0.009541574	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.019083147	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
POTASSIUM		
	Variable 1	*Variable 2*
Mean	69.75525	1.0235
Variance	2145.428657	0.2642645
Observations	4	2
Hypothesized Mean Difference	0	
df	3	
t Stat	2.967405319	
P(T<=t) one-tail	0.029595568	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.059191136	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.0515	0.004
Variance	0.001196333	0.000008
Observations	4	2
Hypothesized Mean Difference	0	
df	3	
t Stat	2.72842853	
P(T<=t) one-tail	0.036017971	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.072035941	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	43.04425	8.515
Variance	661.8950323	54.277825
Observations	4	3
Hypothesized Mean Difference	0	
df	4	
t Stat	2.548534925	
P(T<=t) one-tail	0.031701935	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.06340387	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	2.02075	1.636
Variance	0.867402917	1.808044
Observations	4	3
Hypothesized Mean Difference	0	
df	3	
t Stat	0.42500658	
P(T<=t) one-tail	0.34973673	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.699473459	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	2.59075	1.296333333
Variance	2.844280917	1.707105333
Observations	4	3
Hypothesized Mean Difference	0	
df	5	
t Stat	1.144066428	
P(T<=t) one-tail	0.152197041	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.304394082	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.7695	1.186333333
Variance	0.010289667	0.427366333
Observations	4	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-1.09455281	
P(T<=t) one-tail	0.193969733	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.387939466	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.05375	0.056666667
Variance	0.000523583	0.000394333
Observations	4	3
Hypothesized Mean Difference	0	
df	5	
t Stat	-0.18007537	
P(T<=t) one-tail	0.432082091	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.864164183	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	5.8175	8.164
Variance	0.554041667	17.557897
Observations	4	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-0.95866247	
P(T<=t) one-tail	0.219446189	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.438892378	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.75875	0.002
Variance	0.254528917	0
Observations	4	3
Hypothesized Mean Difference	0	
df	3	
t Stat	2.999948925	
P(T<=t) one-tail	0.028835616	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.057671232	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.0665	0.048333333
Variance	0.000809667	0.000472333
Observations	4	3
Hypothesized Mean Difference	0	
df	5	
t Stat	0.957652153	
P(T<=t) one-tail	0.191109554	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.382219108	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.13475	0.129666667
Variance	0.001414917	0.008192333
Observations	4	3
Hypothesized Mean Difference	0	
df	3	
t Stat	0.091528367	
P(T<=t) one-tail	0.466420983	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.932841966	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.038	0.002
Variance	0.000642	0.000001
Observations	4	3
Hypothesized Mean Difference	0	
df	3	
t Stat	2.838667132	
P(T<=t) one-tail	0.032859322	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.065718644	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.77	0.054333333
Variance	0.244228667	0.000460333
Observations	4	3
Hypothesized Mean Difference	0	
df	3	
t Stat	2.892660279	
P(T<=t) one-tail	0.031438315	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.06287663	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.011	0.000666667
Variance	5.46667E-05	1.33333E-06
Observations	4	3
Hypothesized Mean Difference	0	
df	3	
t Stat	2.750805179	
P(T<=t) one-tail	0.03534726	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.070694521	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.26825	0.033
Variance	0.164972917	0.000741
Observations	4	3
Hypothesized Mean Difference	0	
df	3	
t Stat	1.1549328	
P(T<=t) one-tail	0.165879792	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.331759584	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.608	0.005333333
Variance	0.655051333	1.73333E-05
Observations	4	3
Hypothesized Mean Difference	0	
df	3	
t Stat	1.489230213	
P(T<=t) one-tail	0.116592477	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.233184953	
t Critical two-tail	3.182446305	

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t-Test: Two-Sample Assuming Unequal Variances		
BERYLLIUM		
	Variable 1	*Variable 2*
Mean	0.000461538	0.000333333
Variance	6.02564E-07	3.33333E-07
Observations	13	3
Hypothesized Mean Difference	0	
df	4	
t Stat	0.323085335	
P(T<=t) one-tail	0.381407533	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.762815065	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
POTASSIUM		
	Variable 1	*Variable 2*
Mean	0.533333333	1.0235
Variance	0.122270267	0.2642645
Observations	6	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-1.25514448	
P(T<=t) one-tail	0.214139274	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.428278547	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.03	0.048333333
Variance	0.000997818	0.000472333
Observations	12	3
Hypothesized Mean Difference	0	
df	4	
t Stat	-1.18194501	
P(T<=t) one-tail	0.151346011	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.302692023	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.022888889	0.004
Variance	0.001054611	0.000008
Observations	9	2
Hypothesized Mean Difference	0	
df	8	
t Stat	1.715902898	
P(T<=t) one-tail	0.062258409	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.124516818	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
CAESIUM		
	Variable 1	*Variable 2*
Mean	0.004555556	0.004
Variance	9.67778E-05	0.000018
Observations	9	2
Hypothesized Mean Difference	0	
df	4	
t Stat	0.125	
P(T<=t) one-tail	0.453276965	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.906553929	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.004692308	0.005333333
Variance	1.60641E-05	1.73333E-05
Observations	13	3
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.242052	
P(T<=t) one-tail	0.412171501	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.824343002	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	4.5438	8.515
Variance	12.7573916	54.277825
Observations	15	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-0.91242299	
P(T<=t) one-tail	0.22893087	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.457861741	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.606066667	1.636
Variance	0.067756495	1.808044
Observations	15	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-1.32173318	
P(T<=t) one-tail	0.158592395	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.31718479	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.787533333	1.296333333
Variance	0.64906841	1.707105333
Observations	15	3
Hypothesized Mean Difference	0	
df	2	
t Stat	0.627731584	
P(T<=t) one-tail	0.297148766	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.594297532	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	22.98706667	18.503
Variance	86.2263655	106.240627
Observations	15	3
Hypothesized Mean Difference	0	
df	3	
t Stat	0.698914422	
P(T<=t) one-tail	0.267458458	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.534916916	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.895666667	1.186333333
Variance	0.161424381	0.427366333
Observations	15	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-0.74257727	
P(T<=t) one-tail	0.267554793	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.535109587	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.0468	0.056666667
Variance	0.000355029	0.000394333
Observations	15	3
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.79222097	
P(T<=t) one-tail	0.243048276	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.486096552	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	6.018666667	8.164
Variance	7.639789381	17.557897
Observations	15	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-0.85054951	
P(T<=t) one-tail	0.242301946	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.484603892	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.002	0.002
Variance	3.28571E-06	0
Observations	15	3
Hypothesized Mean Difference	0	
df	14	
t Stat	0	
P(T<=t) one-tail	0.5	
t Critical one-tail	1.761310136	
P(T<=t) two-tail	1	
t Critical two-tail	2.144786688	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.089733333	0.129666667
Variance	0.006897067	0.008192333
Observations	15	3
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.70696936	
P(T<=t) one-tail	0.265275996	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.530551992	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.0028	0.002
Variance	4.31429E-06	0.000001
Observations	15	3
Hypothesized Mean Difference	0	
df	6	
t Stat	1.015221575	
P(T<=t) one-tail	0.174588077	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.349176154	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.0562	0.054333333
Variance	0.0014416	0.000460333
Observations	15	3
Hypothesized Mean Difference	0	
df	5	
t Stat	0.118164499	
P(T<=t) one-tail	0.455268811	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.910537622	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.000533333	0.000666667
Variance	4.09524E-07	1.33333E-06
Observations	15	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-0.1941264	
P(T<=t) one-tail	0.432003575	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.864007149	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.0328	0.033
Variance	0.001717743	0.000741
Observations	15	3
Hypothesized Mean Difference	0	
df	4	
t Stat	-0.0105188	
P(T<=t) one-tail	0.496055542	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.992111083	
t Critical two-tail	2.776445105	

Cloughastucan vs White Park Bay flint from Northern Ireland Chalk formation

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	4.248875	22.356
Variance	3.182408125	1506.30376
Observations	8	5
Hypothesized Mean Difference	0	
df	4	
t Stat	-1.042537482	
P(T<=t) one-tail	0.17801234	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.356024679	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	27.54933333	33.144
Variance	484.9094235	183.21293
Observations	6	5
Hypothesized Mean Difference	0	
df	8	
t Stat	-0.516211524	
P(T<=t) one-tail	0.309834021	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.619668043	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.0258	0.36225
Variance	0.0001247	0.38003692
Observations	5	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-1.091391687	
P(T<=t) one-tail	0.177455468	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.354910937	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.020166667	0.03566667
Variance	0.001032967	0.00116133
Observations	6	3
Hypothesized Mean Difference	0	
df	4	
t Stat	-0.655420579	
P(T<=t) one-tail	0.273989214	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.547978429	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.0005	0.00075
Variance	5.71429E-07	0.00000025
Observations	8	4
Hypothesized Mean Difference	0	
df	9	
t Stat	-0.683130051	
P(T<=t) one-tail	0.255862544	
t Critical one-tail	1.833112933	
P(T<=t) two-tail	0.511725088	
t Critical two-tail	2.262157163	

t-Test: Two-Sample Assuming Unequal Variances		
CAESIUM		
	Variable 1	*Variable 2*
Mean	0.001666667	0.03325
Variance	3.86667E-06	0.00335425
Observations	6	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-1.090243308	
P(T<=t) one-tail	0.177671862	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.355343723	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.694125	1.2456
Variance	0.076577554	0.9438343
Observations	8	5
Hypothesized Mean Difference	0	
df	4	
t Stat	-1.238288132	
P(T<=t) one-tail	0.141658426	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.283316851	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.34375	2.4336
Variance	0.563129071	1.4293483
Observations	8	5
Hypothesized Mean Difference	0	
df	6	
t Stat	-1.825924066	
P(T<=t) one-tail	0.058825353	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.117650705	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.72975	0.886
Variance	0.038567929	0.0595685
Observations	8	5
Hypothesized Mean Difference	0	
df	7	
t Stat	-1.207844918	
P(T<=t) one-tail	0.133163237	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.266326474	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.0375	0.0526
Variance	0.000119714	0.0003428
Observations	8	5
Hypothesized Mean Difference	0	
df	6	
t Stat	-1.652230223	
P(T<=t) one-tail	0.074787803	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.149575606	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	4.72625	5.9724
Variance	2.576081071	6.6355783
Observations	8	5
Hypothesized Mean Difference	0	
df	6	
t Stat	-0.970383559	
P(T<=t) one-tail	0.184665648	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.369331296	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.002	0.0042
Variance	8.57143E-07	7.2E-06
Observations	8	5
Hypothesized Mean Difference	0	
df	5	
t Stat	-1.768713426	
P(T<=t) one-tail	0.068587385	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.137174769	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.057625	0.0824
Variance	0.002543696	0.0028283
Observations	8	5
Hypothesized Mean Difference	0	
df	8	
t Stat	-0.83345161	
P(T<=t) one-tail	0.214385287	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.428770574	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.00175	0.003
Variance	1.64286E-06	0.0000035
Observations	8	5
Hypothesized Mean Difference	0	
df	6	
t Stat	-1.313711637	
P(T<=t) one-tail	0.118468617	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.236937235	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.055375	0.115
Variance	0.001878268	0.0112325
Observations	8	5
Hypothesized Mean Difference	0	
df	5	
t Stat	-1.196989111	
P(T<=t) one-tail	0.14248134	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.284962679	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.02275	0.0484
Variance	0.000863643	0.0033628
Observations	8	5
Hypothesized Mean Difference	0	
df	5	
t Stat	-0.91811407	
P(T<=t) one-tail	0.200339865	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.40067973	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.003625	0.0054
Variance	7.69643E-06	0.0000118
Observations	8	5
Hypothesized Mean Difference	0	
df	7	
t Stat	-0.973856667	
P(T<=t) one-tail	0.181285507	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.362571014	
t Critical two-tail	2.364624252	

Cloughastucan vs Portbraddan flint from Northern Ireland Chalk formation

t-Test: Two-Sample Assuming Unequal Variances		
POTASSIUM		
	Variable 1	*Variable 2*
Mean	41.6185	1.0235
Variance	3222.680045	0.2642645
Observations	2	2
Hypothesized Mean Difference	0	
df	1	
t Stat	1.011256074	
P(T<=t) one-tail	0.248218585	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.49643717	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.36225	0.0483333
Variance	0.380036917	0.0004723
Observations	4	3
Hypothesized Mean Difference	0	
df	3	
t Stat	1.017587889	
P(T<=t) one-tail	0.191896725	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.38379345	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.035666667	0.004
Variance	0.001161333	0.000008
Observations	3	2
Hypothesized Mean Difference	0	
df	2	
t Stat	1.601224673	
P(T<=t) one-tail	0.125239988	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.250479975	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.00075	0.0006667
Variance	0.00000025	1.333E-06
Observations	4	3
Hypothesized Mean Difference	0	
df	3	
t Stat	0.117041147	
P(T<=t) one-tail	0.457111642	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.914223283	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
CAESIUM		
	Variable 1	*Variable 2*
Mean	0.03325	0.004
Variance	0.00335425	0.000018
Observations	4	2
Hypothesized Mean Difference	0	
df	3	
t Stat	1.004708332	
P(T<=t) one-tail	0.19452996	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.389059919	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	22.356	8.515
Variance	1506.30376	54.277825
Observations	5	3
Hypothesized Mean Difference	0	
df	4	
t Stat	0.774518371	
P(T<=t) one-tail	0.240929411	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.481858823	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	1.2456	1.636
Variance	0.9438343	1.808044
Observations	5	3
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.43883228	
P(T<=t) one-tail	0.345232676	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.690465352	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	2.4336	1.2963333
Variance	1.4293483	1.7071053
Observations	5	3
Hypothesized Mean Difference	0	
df	4	
t Stat	1.229995265	
P(T<=t) one-tail	0.143046551	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.286093101	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	33.144	18.503
Variance	183.21293	106.24063
Observations	5	3
Hypothesized Mean Difference	0	
df	5	
t Stat	1.724786241	
P(T<=t) one-tail	0.072581851	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.145163703	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.886	1.1863333
Variance	0.0595685	0.4273663
Observations	5	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-0.76440459	
P(T<=t) one-tail	0.262249948	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.524499897	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.0526	0.0566667
Variance	0.0003428	0.0003943
Observations	5	3
Hypothesized Mean Difference	0	
df	4	
t Stat	-0.28755356	
P(T<=t) one-tail	0.393985543	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.787971086	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	5.9724	8.164
Variance	6.6355783	17.557897
Observations	5	3
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.81791221	
P(T<=t) one-tail	0.236662602	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.473325204	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.0042	0.002
Variance	7.2E-06	0
Observations	5	3
Hypothesized Mean Difference	0	
df	4	
t Stat	1.833333333	
P(T<=t) one-tail	0.070341132	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.140682265	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.0824	0.1296667
Variance	0.0028283	0.0081923
Observations	5	3
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.82325151	
P(T<=t) one-tail	0.235353659	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.470707319	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.003	0.002
Variance	0.0000035	0.000001
Observations	5	3
Hypothesized Mean Difference	0	
df	6	
t Stat	0.983738754	
P(T<=t) one-tail	0.181616961	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.363233921	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.115	0.0543333
Variance	0.0112325	0.0004603
Observations	5	3
Hypothesized Mean Difference	0	
df	5	
t Stat	1.238367481	
P(T<=t) one-tail	0.135274163	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.270548327	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.0484	0.033
Variance	0.0033628	0.000741
Observations	5	3
Hypothesized Mean Difference	0	
df	6	
t Stat	0.50784442	
P(T<=t) one-tail	0.314843145	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.62968629	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.0054	0.0053333
Variance	0.0000118	1.733E-05
Observations	5	3
Hypothesized Mean Difference	0	
df	4	
t Stat	0.023369845	
P(T<=t) one-tail	0.491237305	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.98247461	
t Critical two-tail	2.776445105	

White Park Bay vs Portbraddan flint from Northern Ireland Chalk formation

t-Test: Two-Sample Assuming Unequal Variances		
POTASSIUM		
	Variable 1	*Variable 2*
Mean	0.598	1.0235
Variance	0.173104	0.2642645
Observations	3	2
Hypothesized Mean Difference	0	
df	2	
t Stat	-0.976591729	
P(T<=t) one-tail	0.215882787	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.431765574	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	27.54933333	18.503
Variance	484.9094235	106.24063
Observations	6	3
Hypothesized Mean Difference	0	
df	7	
t Stat	0.839093086	
P(T<=t) one-tail	0.214568979	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.429137958	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.0258	0.0483333
Variance	0.0001247	0.0004723
Observations	5	3
Hypothesized Mean Difference	0	
df	3	
t Stat	-1.668520488	
P(T<=t) one-tail	0.096902169	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.193804339	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.020166667	0.004
Variance	0.001032967	0.000008
Observations	6	2
Hypothesized Mean Difference	0	
df	5	
t Stat	1.218050974	
P(T<=t) one-tail	0.138770848	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.277541696	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
CAESIUM		
	Variable 1	*Variable 2*
Mean	0.001666667	0.004
Variance	3.86667E-06	0.000018
Observations	6	2
Hypothesized Mean Difference	0	
df	1	
t Stat	-0.751342884	
P(T<=t) one-tail	0.294893842	
t Critical one-tail	6.313751515	
P(T<=t) two-tail	0.589787683	
t Critical two-tail	12.70620474	

t-Test: Two-Sample Assuming Unequal Variances		
BERYLLIUM		
	Variable 1	*Variable 2*
Mean	0.000625	0.0003333
Variance	0.000001125	3.333E-07
Observations	8	3
Hypothesized Mean Difference	0	
df	7	
t Stat	0.581318359	
P(T<=t) one-tail	0.289627413	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.579254826	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	4.248875	8.515
Variance	3.182408125	54.277825
Observations	8	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-0.992111111	
P(T<=t) one-tail	0.212849082	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.425698164	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.694125	1.636
Variance	0.076577554	1.808044
Observations	8	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-1.203725946	
P(T<=t) one-tail	0.175918836	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.351837673	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.34375	1.2963333
Variance	0.563129071	1.7071053
Observations	8	3
Hypothesized Mean Difference	0	
df	3	
t Stat	0.059297419	
P(T<=t) one-tail	0.478222092	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.956444183	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.72975	1.1863333
Variance	0.038567929	0.4273663
Observations	8	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-1.189743723	
P(T<=t) one-tail	0.178117838	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.356235676	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.0375	0.0566667
Variance	0.000119714	0.0003943
Observations	8	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-1.584028908	
P(T<=t) one-tail	0.12701971	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.25403942	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	4.72625	8.164
Variance	2.576081071	17.557897
Observations	8	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-1.383465658	
P(T<=t) one-tail	0.150353456	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.300706912	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.002	0.002
Variance	8.57143E-07	0
Observations	8	3
Hypothesized Mean Difference	0	
df	7	
t Stat	0	
P(T<=t) one-tail	0.5	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	1	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.057625	0.1296667
Variance	0.002543696	0.0081923
Observations	8	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-1.304738775	
P(T<=t) one-tail	0.160956649	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.321913298	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.00175	0.002
Variance	1.64286E-06	0.000001
Observations	8	3
Hypothesized Mean Difference	0	
df	5	
t Stat	-0.340620169	
P(T<=t) one-tail	0.373617377	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.747234754	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.055375	0.0543333
Variance	0.001878268	0.0004603
Observations	8	3
Hypothesized Mean Difference	0	
df	8	
t Stat	0.052867087	
P(T<=t) one-tail	0.479567057	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.959134113	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.0005	0.0006667
Variance	5.71429E-07	1.333E-06
Observations	8	3
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.23204774	
P(T<=t) one-tail	0.415714602	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.831429205	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.02275	0.033
Variance	0.000863643	0.000741
Observations	8	3
Hypothesized Mean Difference	0	
df	4	
t Stat	-0.544047724	
P(T<=t) one-tail	0.307657033	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.615314066	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.003625	0.0053333
Variance	7.69643E-06	1.733E-05
Observations	8	3
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.658033646	
P(T<=t) one-tail	0.27875225	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.5575045	
t Critical two-tail	3.182446305	

White Park Bay vs White Rocks flint from Northern Ireland Chalk formation

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	4.248875	4.5438
Variance	3.182408125	12.7573916
Observations	8	15
Hypothesized Mean Difference	0	
df	21	
t Stat	-0.263969156	
P(T<=t) one-tail	0.397188404	
t Critical one-tail	1.720742903	
P(T<=t) two-tail	0.794376808	
t Critical two-tail	2.079613845	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.694125	0.60606667
Variance	0.076577554	0.0677565
Observations	8	15
Hypothesized Mean Difference	0	
df	14	
t Stat	0.741866649	
P(T<=t) one-tail	0.235215827	
t Critical one-tail	1.761310136	
P(T<=t) two-tail	0.470431655	
t Critical two-tail	2.144786688	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.34375	1.78753333
Variance	0.563129071	0.64906841
Observations	8	15
Hypothesized Mean Difference	0	
df	15	
t Stat	-1.316323549	
P(T<=t) one-tail	0.103913011	
t Critical one-tail	1.753050356	
P(T<=t) two-tail	0.207826022	
t Critical two-tail	2.131449546	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.72975	0.89566667
Variance	0.038567929	0.16142438
Observations	8	15
Hypothesized Mean Difference	0	
df	21	
t Stat	-1.32913723	
P(T<=t) one-tail	0.09903172	
t Critical one-tail	1.720742903	
P(T<=t) two-tail	0.198063439	
t Critical two-tail	2.079613845	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.0375	0.0468
Variance	0.000119714	0.00035503
Observations	8	15
Hypothesized Mean Difference	0	
df	21	
t Stat	-1.496251278	
P(T<=t) one-tail	0.07473345	
t Critical one-tail	1.720742903	
P(T<=t) two-tail	0.149466899	
t Critical two-tail	2.079613845	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	4.72625	6.01866667
Variance	2.576081071	7.63978938
Observations	8	15
Hypothesized Mean Difference	0	
df	21	
t Stat	-1.417476845	
P(T<=t) one-tail	0.085505414	
t Critical one-tail	1.720742903	
P(T<=t) two-tail	0.171010828	
t Critical two-tail	2.079613845	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.002	0.002
Variance	8.57143E-07	3.2857E-06
Observations	8	15
Hypothesized Mean Difference	0	
df	21	
t Stat	0	
P(T<=t) one-tail	0.5	
t Critical one-tail	1.720742903	
P(T<=t) two-tail	1	
t Critical two-tail	2.079613845	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.057625	0.08973333
Variance	0.002543696	0.00689707
Observations	8	15
Hypothesized Mean Difference	0	
df	20	
t Stat	-1.151312306	
P(T<=t) one-tail	0.131591125	
t Critical one-tail	1.724718243	
P(T<=t) two-tail	0.26318225	
t Critical two-tail	2.085963447	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.00175	0.0028
Variance	1.64286E-06	4.3143E-06
Observations	8	15
Hypothesized Mean Difference	0	
df	20	
t Stat	-1.495465254	
P(T<=t) one-tail	0.075203053	
t Critical one-tail	1.724718243	
P(T<=t) two-tail	0.150406106	
t Critical two-tail	2.085963447	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.055375	0.0562
Variance	0.001878268	0.0014416
Observations	8	15
Hypothesized Mean Difference	0	
df	13	
t Stat	-0.045353628	
P(T<=t) one-tail	0.482257364	
t Critical one-tail	1.770933396	
P(T<=t) two-tail	0.964514728	
t Critical two-tail	2.160368656	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.0005	0.00053333
Variance	5.71429E-07	4.0952E-07
Observations	8	15
Hypothesized Mean Difference	0	
df	12	
t Stat	-0.106084963	
P(T<=t) one-tail	0.458633863	
t Critical one-tail	1.782287556	
P(T<=t) two-tail	0.917267726	
t Critical two-tail	2.17881283	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.02275	0.0328
Variance	0.000863643	0.00171774
Observations	8	15
Hypothesized Mean Difference	0	
df	19	
t Stat	-0.673796613	
P(T<=t) one-tail	0.254277733	
t Critical one-tail	1.729132812	
P(T<=t) two-tail	0.508555467	
t Critical two-tail	2.093024054	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.003625	0.00469231
Variance	7.69643E-06	1.6064E-05
Observations	8	13
Hypothesized Mean Difference	0	
df	19	
t Stat	-0.719946331	
P(T<=t) one-tail	0.240160779	
t Critical one-tail	1.729132812	
P(T<=t) two-tail	0.480321559	
t Critical two-tail	2.093024054	

t-Test: Two-Sample Assuming Unequal Variances		
BERYLLIUM		
	Variable 1	*Variable 2*
Mean	0.000625	0.00046154
Variance	0.000001125	6.0256E-07
Observations	8	13
Hypothesized Mean Difference	0	
df	12	
t Stat	0.378026766	
P(T<=t) one-tail	0.356006397	
t Critical one-tail	1.782287556	
P(T<=t) two-tail	0.712012793	
t Critical two-tail	2.17881283	

t-Test: Two-Sample Assuming Unequal Variances		
POTASSIUM		
	Variable 1	*Variable 2*
Mean	0.598	0.53333333
Variance	0.173104	0.12227027
Observations	3	6
Hypothesized Mean Difference	0	
df	3	
t Stat	0.231425588	
P(T<=t) one-tail	0.415935304	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.831870608	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	27.54933333	22.9870667
Variance	484.9094235	86.2263655
Observations	6	15
Hypothesized Mean Difference	0	
df	6	
t Stat	0.490349043	
P(T<=t) one-tail	0.320650573	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.641301145	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.0258	0.03
Variance	0.0001247	0.00099782
Observations	5	12
Hypothesized Mean Difference	0	
df	15	
t Stat	-0.403974068	
P(T<=t) one-tail	0.345966323	
t Critical one-tail	1.753050356	
P(T<=t) two-tail	0.691932647	
t Critical two-tail	2.131449546	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.020166667	0.02288889
Variance	0.001032967	0.00105461
Observations	6	9
Hypothesized Mean Difference	0	
df	11	
t Stat	-0.160036573	
P(T<=t) one-tail	0.437876596	
t Critical one-tail	1.795884819	
P(T<=t) two-tail	0.875753192	
t Critical two-tail	2.20098516	

t-Test: Two-Sample Assuming Unequal Variances		
CAESIUM		
	Variable 1	*Variable 2*
Mean	0.001666667	0.00455556
Variance	3.86667E-06	9.6778E-05
Observations	6	9
Hypothesized Mean Difference	0	
df	9	
t Stat	-0.85570772	
P(T<=t) one-tail	0.207179832	
t Critical one-tail	1.833112933	
P(T<=t) two-tail	0.414359665	
t Critical two-tail	2.262157163	

Cloughastucan vs White Rocks flint from Northern Ireland Chalk formation

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	4.5438	22.356
Variance	12.7573916	1506.30376
Observations	15	5
Hypothesized Mean Difference	0	
df	4	
t Stat	-1.024788204	
P(T<=t) one-tail	0.181695111	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.363390223	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.606066667	1.2456
Variance	0.067756495	0.9438343
Observations	15	5
Hypothesized Mean Difference	0	
df	4	
t Stat	-1.454672666	
P(T<=t) one-tail	0.109723627	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.219447255	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.787533333	2.4336
Variance	0.64906841	1.4293483
Observations	15	5
Hypothesized Mean Difference	0	
df	5	
t Stat	-1.126124525	
P(T<=t) one-tail	0.155620671	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.311241342	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	22.98706667	33.144
Variance	86.2263655	183.21293
Observations	15	5
Hypothesized Mean Difference	0	
df	5	
t Stat	-1.560004022	
P(T<=t) one-tail	0.089753078	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.179506157	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.895666667	0.886
Variance	0.161424381	0.0595685
Observations	15	5
Hypothesized Mean Difference	0	
df	12	
t Stat	0.064194819	
P(T<=t) one-tail	0.474936044	
t Critical one-tail	1.782287556	
P(T<=t) two-tail	0.949872088	
t Critical two-tail	2.17881283	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.0468	0.0526
Variance	0.000355029	0.0003428
Observations	15	5
Hypothesized Mean Difference	0	
df	7	
t Stat	-0.603942028	
P(T<=t) one-tail	0.282466546	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.564933093	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	6.018666667	5.9724
Variance	7.639789381	6.6355783
Observations	15	5
Hypothesized Mean Difference	0	
df	7	
t Stat	0.03414133	
P(T<=t) one-tail	0.486858797	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.973717595	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.002	0.0042
Variance	3.28571E-06	7.2E-06
Observations	15	5
Hypothesized Mean Difference	0	
df	5	
t Stat	-1.708021193	
P(T<=t) one-tail	0.074167488	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.148334976	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.089733333	0.0824
Variance	0.006897067	0.0028283
Observations	15	5
Hypothesized Mean Difference	0	
df	11	
t Stat	0.229002974	
P(T<=t) one-tail	0.411534294	
t Critical one-tail	1.795884819	
P(T<=t) two-tail	0.823068589	
t Critical two-tail	2.20098516	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.0028	0.003
Variance	4.31429E-06	0.0000035
Observations	15	5
Hypothesized Mean Difference	0	
df	8	
t Stat	-0.201249712	
P(T<=t) one-tail	0.422763025	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.84552605	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.0562	0.115
Variance	0.0014416	0.0112325
Observations	15	5
Hypothesized Mean Difference	0	
df	4	
t Stat	-1.214863932	
P(T<=t) one-tail	0.145612654	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.291225308	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.0328	0.0484
Variance	0.001717743	0.0033628
Observations	15	5
Hypothesized Mean Difference	0	
df	5	
t Stat	-0.556053029	
P(T<=t) one-tail	0.301069493	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.602138986	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.03	0.36225
Variance	0.000997818	0.38003692
Observations	12	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-1.077437605	
P(T<=t) one-tail	0.180102468	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.360204937	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.022888889	0.03566667
Variance	0.001054611	0.00116133
Observations	9	3
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.569003712	
P(T<=t) one-tail	0.304582739	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.609165479	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.000533333	0.00075
Variance	4.09524E-07	0.00000025
Observations	15	4
Hypothesized Mean Difference	0	
df	6	
t Stat	-0.723019641	
P(T<=t) one-tail	0.248436342	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.496872683	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
CAESIUM		
	Variable 1	*Variable 2*
Mean	0.004555556	0.03325
Variance	9.67778E-05	0.00335425
Observations	9	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.984607804	
P(T<=t) one-tail	0.198707974	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.397415948	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.004692308	0.0054
Variance	1.60641E-05	0.0000118
Observations	13	5
Hypothesized Mean Difference	0	
df	9	
t Stat	-0.373209541	
P(T<=t) one-tail	0.358815618	
t Critical one-tail	1.833112933	
P(T<=t) two-tail	0.717631235	
t Critical two-tail	2.262157163	

Cloughastucan vs Garron Point flint from Northern Ireland Chalk formation

t-Test: Two-Sample Assuming Unequal Variances		
LITHIUM		
	Variable 1	*Variable 2*
Mean	0.0015	0.006666667
Variance	0.0000045	5.33333E-06
Observations	2	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-2.574409875	
P(T<=t) one-tail	0.061769053	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.123538106	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
POTASSIUM		
	Variable 1	*Variable 2*
Mean	41.6185	69.75525
Variance	3222.680045	2145.428657
Observations	2	4
Hypothesized Mean Difference	0	
df	2	
t Stat	-0.607137989	
P(T<=t) one-tail	0.302753169	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.605506339	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	33.144	26.34333333
Variance	183.21293	0.829733333
Observations	5	3
Hypothesized Mean Difference	0	
df	4	
t Stat	1.119246025	
P(T<=t) one-tail	0.162851964	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.325703928	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.00075	0.011
Variance	0.00000025	5.46667E-05
Observations	4	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-2.766315924	
P(T<=t) one-tail	0.034891436	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.069782872	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.36225	0.0665
Variance	0.380036917	0.000809667
Observations	4	4
Hypothesized Mean Difference	0	
df	3	
t Stat	0.958472633	
P(T<=t) one-tail	0.204266289	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.408532577	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.035666667	0.0515
Variance	0.001161333	0.001196333
Observations	3	4
Hypothesized Mean Difference	0	
df	4	
t Stat	-0.604433819	
P(T<=t) one-tail	0.289082199	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.578164398	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
CAESIUM		
	Variable 1	*Variable 2*
Mean	0.03325	0.104666667
Variance	0.00335425	3.33333E-07
Observations	4	3
Hypothesized Mean Difference	0	
df	3	
t Stat	-2.466056865	
P(T<=t) one-tail	0.045190029	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.090380059	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	22.356	43.04425
Variance	1506.30376	661.8950323
Observations	5	4
Hypothesized Mean Difference	0	
df	7	
t Stat	-0.957610278	
P(T<=t) one-tail	0.185078043	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.370156086	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	1.2456	2.02075
Variance	0.9438343	0.867402917
Observations	5	4
Hypothesized Mean Difference	0	
df	7	
t Stat	-1.217103081	
P(T<=t) one-tail	0.131500528	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.263001055	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	2.4336	2.59075
Variance	1.4293483	2.844280917
Observations	5	4
Hypothesized Mean Difference	0	
df	5	
t Stat	-0.157391001	
P(T<=t) one-tail	0.440547581	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.881095163	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.886	0.7695
Variance	0.0595685	0.010289667
Observations	5	4
Hypothesized Mean Difference	0	
df	6	
t Stat	0.96794334	
P(T<=t) one-tail	0.185227024	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.370454048	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.0526	0.05375
Variance	0.0003428	0.000523583
Observations	5	4
Hypothesized Mean Difference	0	
df	6	
t Stat	-0.081428131	
P(T<=t) one-tail	0.468874906	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.937749812	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	5.9724	5.8175
Variance	6.6355783	0.554041667
Observations	5	4
Hypothesized Mean Difference	0	
df	5	
t Stat	0.127949863	
P(T<=t) one-tail	0.451587785	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.90317557	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.0042	0.75875
Variance	7.2E-06	0.254528917
Observations	5	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-2.991193722	
P(T<=t) one-tail	0.029037635	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.05807527	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.0824	0.13475
Variance	0.0028283	0.001414917
Observations	5	4
Hypothesized Mean Difference	0	
df	7	
t Stat	-1.726501639	
P(T<=t) one-tail	0.063950105	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.12790021	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.003	0.038
Variance	0.0000035	0.000642
Observations	5	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-2.756674733	
P(T<=t) one-tail	0.035173903	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.070347805	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.115	0.77
Variance	0.0112325	0.244228667
Observations	5	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-2.603315877	
P(T<=t) one-tail	0.040072965	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.080145931	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.0484	0.26825
Variance	0.0033628	0.164972917
Observations	5	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-1.073835226	
P(T<=t) one-tail	0.180792061	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.361584123	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.0054	0.608
Variance	0.0000118	0.655051333
Observations	5	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-1.489081014	
P(T<=t) one-tail	0.116610606	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.233221213	
t Critical two-tail	3.182446305	

Carnlough vs White Rocks flint from Northern Ireland Chalk formation

t-Test: Two-Sample Assuming Unequal Variances		
CAESIUM		
	Variable 1	*Variable 2*
Mean	0.004555556	0.029333333
Variance	9.67778E-05	0.005168
Observations	9	9
Hypothesized Mean Difference	0	
df	8	
t Stat	-1.02445665	
P(T<=t) one-tail	0.167798174	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.335596348	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	4.5438	8.007642857
Variance	12.7573916	238.5266801
Observations	15	14
Hypothesized Mean Difference	0	
df	14	
t Stat	-0.81898495	
P(T<=t) one-tail	0.213258532	
t Critical one-tail	1.761310136	
P(T<=t) two-tail	0.426517065	
t Critical two-tail	2.144786688	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.606066667	0.642785714
Variance	0.067756495	1.13858772
Observations	15	14
Hypothesized Mean Difference	0	
df	14	
t Stat	-0.12532405	
P(T<=t) one-tail	0.451024428	
t Critical one-tail	1.761310136	
P(T<=t) two-tail	0.902048857	
t Critical two-tail	2.144786688	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.787533333	1.228714286
Variance	0.64906841	0.719769758
Observations	15	14
Hypothesized Mean Difference	0	
df	27	
t Stat	1.816077536	
P(T<=t) one-tail	0.040239428	
t Critical one-tail	1.703288446	
P(T<=t) two-tail	0.080478856	
t Critical two-tail	2.051830516	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.895666667	1.085928571
Variance	0.161424381	0.205607456
Observations	15	14
Hypothesized Mean Difference	0	
df	26	
t Stat	-1.19268595	
P(T<=t) one-tail	0.121881879	
t Critical one-tail	1.70561792	
P(T<=t) two-tail	0.243763758	
t Critical two-tail	2.055529439	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.0468	0.046428571
Variance	0.000355029	0.00027411
Observations	15	14
Hypothesized Mean Difference	0	
df	27	
t Stat	0.056479787	
P(T<=t) one-tail	0.477687748	
t Critical one-tail	1.703288446	
P(T<=t) two-tail	0.955375497	
t Critical two-tail	2.051830516	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	6.018666667	7.359928571
Variance	7.639789381	9.735133764
Observations	15	14
Hypothesized Mean Difference	0	
df	26	
t Stat	-1.22201535	
P(T<=t) one-tail	0.11633279	
t Critical one-tail	1.70561792	
P(T<=t) two-tail	0.232665581	
t Critical two-tail	2.055529439	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.002	0.003214286
Variance	3.28571E-06	4.02747E-06
Observations	15	14
Hypothesized Mean Difference	0	
df	26	
t Stat	-1.70582726	
P(T<=t) one-tail	0.049980245	
t Critical one-tail	1.70561792	
P(T<=t) two-tail	0.099960489	
t Critical two-tail	2.055529439	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.089733333	0.060428571
Variance	0.006897067	0.003696879
Observations	15	14
Hypothesized Mean Difference	0	
df	26	
t Stat	1.089202768	
P(T<=t) one-tail	0.143028743	
t Critical one-tail	1.70561792	
P(T<=t) two-tail	0.286057486	
t Critical two-tail	2.055529439	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.0028	0.001785714
Variance	4.31429E-06	4.02747E-06
Observations	15	14
Hypothesized Mean Difference	0	
df	27	
t Stat	1.337256634	
P(T<=t) one-tail	0.096148216	
t Critical one-tail	1.703288446	
P(T<=t) two-tail	0.192296433	
t Critical two-tail	2.051830516	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.0562	0.056285714
Variance	0.0014416	0.01104822
Observations	15	14
Hypothesized Mean Difference	0	
df	16	
t Stat	-0.00288082	
P(T<=t) one-tail	0.498868526	
t Critical one-tail	1.745883676	
P(T<=t) two-tail	0.997737053	
t Critical two-tail	2.119905299	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.000533333	0.000285714
Variance	4.09524E-07	2.1978E-07
Observations	15	14
Hypothesized Mean Difference	0	
df	26	
t Stat	1.194122662	
P(T<=t) one-tail	0.121605545	
t Critical one-tail	1.70561792	
P(T<=t) two-tail	0.24321109	
t Critical two-tail	2.055529439	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.0328	0.017357143
Variance	0.001717743	0.000621016
Observations	15	14
Hypothesized Mean Difference	0	
df	23	
t Stat	1.225181812	
P(T<=t) one-tail	0.116453025	
t Critical one-tail	1.713871528	
P(T<=t) two-tail	0.232906051	
t Critical two-tail	2.06865761	

t-Test: Two-Sample Assuming Unequal Variances		
BERYLLIUM		
	Variable 1	*Variable 2*
Mean	0.000461538	0.000545455
Variance	6.02564E-07	4.72727E-07
Observations	13	11
Hypothesized Mean Difference	0	
df	22	
t Stat	-0.28077314	
P(T<=t) one-tail	0.390753983	
t Critical one-tail	1.717144374	
P(T<=t) two-tail	0.781507966	
t Critical two-tail	2.073873068	

t-Test: Two-Sample Assuming Unequal Variances		
POTASSIUM		
	Variable 1	*Variable 2*
Mean	0.533333333	21.30828571
Variance	0.122270267	2322.224109
Observations	6	7
Hypothesized Mean Difference	0	
df	6	
t Stat	-1.14057449	
P(T<=t) one-tail	0.148759781	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.297519562	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	22.98706667	25.5901
Variance	86.2263655	392.3999068
Observations	15	10
Hypothesized Mean Difference	0	
df	12	
t Stat	-0.38808726	
P(T<=t) one-tail	0.352374096	
t Critical one-tail	1.782287556	
P(T<=t) two-tail	0.704748193	
t Critical two-tail	2.17881283	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.03	0.035545455
Variance	0.000997818	0.000444673
Observations	12	11
Hypothesized Mean Difference	0	
df	19	
t Stat	-0.4988495	
P(T<=t) one-tail	0.311805843	
t Critical one-tail	1.729132812	
P(T<=t) two-tail	0.623611686	
t Critical two-tail	2.093024054	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.004692308	0.009928571
Variance	1.60641E-05	0.000418533
Observations	13	14
Hypothesized Mean Difference	0	
df	14	
t Stat	-0.93848123	
P(T<=t) one-tail	0.181953507	
t Critical one-tail	1.761310136	
P(T<=t) two-tail	0.363907014	
t Critical two-tail	2.144786688	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.022888889	0.031
Variance	0.001054611	0.001363
Observations	9	11
Hypothesized Mean Difference	0	
df	18	
t Stat	-0.52238712	
P(T<=t) one-tail	0.30388543	
t Critical one-tail	1.734063607	
P(T<=t) two-tail	0.60777086	
t Critical two-tail	2.10092204	

Carnlough vs Garron Point flint from Northern Ireland Chalk formation

t-Test: Two-Sample Assuming Unequal Variances		
CAESIUM		
	Variable 1	*Variable 2*
Mean	0.029333333	0.104666667
Variance	0.005168	3.33333E-07
Observations	9	3
Hypothesized Mean Difference	0	
df	8	
t Stat	-3.143439984	
P(T<=t) one-tail	0.006866869	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.013733739	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.031	0.0515
Variance	0.001363	0.001196333
Observations	11	4
Hypothesized Mean Difference	0	
df	6	
t Stat	-0.996753034	
P(T<=t) one-tail	0.178684554	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.357369108	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.035545455	0.0665
Variance	0.000444673	0.000809667
Observations	11	4
Hypothesized Mean Difference	0	
df	4	
t Stat	-1.986383108	
P(T<=t) one-tail	0.058968669	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.117937337	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	29.20333333	26.34333333
Variance	294.576025	0.829733333
Observations	9	3
Hypothesized Mean Difference	0	
df	8	
t Stat	0.497807437	
P(T<=t) one-tail	0.316006702	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.632013403	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
POTASSIUM		
	Variable 1	*Variable 2*
Mean	21.30828571	69.75525
Variance	2322.224109	2145.428657
Observations	7	4
Hypothesized Mean Difference	0	
df	7	
t Stat	-1.644299119	
P(T<=t) one-tail	0.072056617	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.144113235	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
BERYLLIUM		
	Variable 1	*Variable 2*
Mean	0.000545455	0
Variance	4.72727E-07	0
Observations	11	3
Hypothesized Mean Difference	0	
df	10	
t Stat	2.631174058	
P(T<=t) one-tail	0.012555751	
t Critical one-tail	1.812461123	
P(T<=t) two-tail	0.025111501	
t Critical two-tail	2.228138852	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	8.007642857	43.04425
Variance	238.5266801	661.8950323
Observations	14	4
Hypothesized Mean Difference	0	
df	4	
t Stat	-2.593445174	
P(T<=t) one-tail	0.030232003	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.060464007	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.642785714	2.02075
Variance	1.13858772	0.867402917
Observations	14	4
Hypothesized Mean Difference	0	
df	5	
t Stat	-2.523479927	
P(T<=t) one-tail	0.02647467	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.052949339	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.228714286	2.59075
Variance	0.719769758	2.844280917
Observations	14	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-1.559816811	
P(T<=t) one-tail	0.108353187	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.216706374	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	1.085928571	0.7695
Variance	0.205607456	0.010289667
Observations	14	4
Hypothesized Mean Difference	0	
df	16	
t Stat	2.408641194	
P(T<=t) one-tail	0.01421298	
t Critical one-tail	1.745883676	
P(T<=t) two-tail	0.028425961	
t Critical two-tail	2.119905299	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.046428571	0.05375
Variance	0.00027411	0.000523583
Observations	14	4
Hypothesized Mean Difference	0	
df	4	
t Stat	-0.596847657	
P(T<=t) one-tail	0.291374624	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.582749248	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	7.359928571	5.8175
Variance	9.735133764	0.554041667
Observations	14	4
Hypothesized Mean Difference	0	
df	16	
t Stat	1.689094835	
P(T<=t) one-tail	0.055295178	
t Critical one-tail	1.745883676	
P(T<=t) two-tail	0.110590356	
t Critical two-tail	2.119905299	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.003214286	0.75875
Variance	4.02747E-06	0.254528917
Observations	14	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-2.995128418	
P(T<=t) one-tail	0.028946626	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.057893252	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.060428571	0.13475
Variance	0.003696879	0.001414917
Observations	14	4
Hypothesized Mean Difference	0	
df	8	
t Stat	-2.990149638	
P(T<=t) one-tail	0.008664996	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.017329992	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.001785714	0.038
Variance	4.02747E-06	0.000642
Observations	14	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-2.85596936	
P(T<=t) one-tail	0.032395384	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.064790768	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.056285714	0.77
Variance	0.01104822	0.244228667
Observations	14	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-2.869904464	
P(T<=t) one-tail	0.032027663	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.064055325	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.000285714	0.011
Variance	2.1978E-07	5.46667E-05
Observations	14	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-2.896560697	
P(T<=t) one-tail	0.031338664	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.062677328	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.017357143	0.26825
Variance	0.000621016	0.164972917
Observations	14	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-1.234748604	
P(T<=t) one-tail	0.152408702	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.304817404	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.009928571	0.608
Variance	0.000418533	0.655051333
Observations	14	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-1.47776626	
P(T<=t) one-tail	0.11799453	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.235989059	
t Critical two-tail	3.182446305	

Carnlough vs Ballintoy flint from Northern Ireland Chalk formation

t-Test: Two-Sample Assuming Unequal Variances		
BERYLLIUM		
	Variable 1	*Variable 2*
Mean	0.000545455	0.000166667
Variance	4.72727E-07	1.66667E-07
Observations	11	6
Hypothesized Mean Difference	0	
df	15	
t Stat	1.424044929	
P(T<=t) one-tail	0.08745175	
t Critical one-tail	1.753050356	
P(T<=t) two-tail	0.174903499	
t Critical two-tail	2.131449546	

t-Test: Two-Sample Assuming Unequal Variances		
POTASSIUM		
	Variable 1	*Variable 2*
Mean	21.30828571	0.683
Variance	2322.224109	0.205668667
Observations	7	4
Hypothesized Mean Difference	0	
df	6	
t Stat	1.132304611	
P(T<=t) one-tail	0.150359585	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.300719171	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	29.20333333	13.86625
Variance	294.576025	180.4563563
Observations	9	4
Hypothesized Mean Difference	0	
df	7	
t Stat	1.738313446	
P(T<=t) one-tail	0.062858793	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.125717586	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.035545455	0.0438
Variance	0.000444673	0.0003802
Observations	11	5
Hypothesized Mean Difference	0	
df	8	
t Stat	-0.76488445	
P(T<=t) one-tail	0.233151072	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.466302143	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.031	0.0875
Variance	0.001363	0.028113
Observations	11	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.66808214	
P(T<=t) one-tail	0.27594271	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.55188542	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
CAESIUM		
	Variable 1	*Variable 2*
Mean	0.029333333	0.0034
Variance	0.005168	0.0000118
Observations	9	5
Hypothesized Mean Difference	0	
df	8	
t Stat	1.080009855	
P(T<=t) one-tail	0.155809396	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.311618792	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	8.007642857	2.678
Variance	238.5266801	6.515662
Observations	14	6
Hypothesized Mean Difference	0	
df	15	
t Stat	1.251919225	
P(T<=t) one-tail	0.11488487	
t Critical one-tail	1.753050356	
P(T<=t) two-tail	0.22976974	
t Critical two-tail	2.131449546	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.642785714	0.328333333
Variance	1.13858772	0.074391867
Observations	14	6
Hypothesized Mean Difference	0	
df	16	
t Stat	1.027126801	
P(T<=t) one-tail	0.159819693	
t Critical one-tail	1.745883676	
P(T<=t) two-tail	0.319639385	
t Critical two-tail	2.119905299	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.228714286	1.024333333
Variance	0.719769758	1.433846667
Observations	14	6
Hypothesized Mean Difference	0	
df	7	
t Stat	0.379273199	
P(T<=t) one-tail	0.357864072	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.715728144	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	1.085928571	1.010666667
Variance	0.205607456	0.110722267
Observations	14	6
Hypothesized Mean Difference	0	
df	13	
t Stat	0.413427374	
P(T<=t) one-tail	0.343016077	
t Critical one-tail	1.770933396	
P(T<=t) two-tail	0.686032153	
t Critical two-tail	2.160368656	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.046428571	0.042
Variance	0.00027411	0.0002028
Observations	14	6
Hypothesized Mean Difference	0	
df	11	
t Stat	0.606146088	
P(T<=t) one-tail	0.278359612	
t Critical one-tail	1.795884819	
P(T<=t) two-tail	0.556719224	
t Critical two-tail	2.20098516	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	7.359928571	6.851833333
Variance	9.735133764	5.692144167
Observations	14	6
Hypothesized Mean Difference	0	
df	12	
t Stat	0.396265842	
P(T<=t) one-tail	0.349432394	
t Critical one-tail	1.782287556	
P(T<=t) two-tail	0.698864788	
t Critical two-tail	2.17881283	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.003214286	0.001833333
Variance	4.02747E-06	5.66667E-07
Observations	14	6
Hypothesized Mean Difference	0	
df	18	
t Stat	2.233974543	
P(T<=t) one-tail	0.019205207	
t Critical one-tail	1.734063607	
P(T<=t) two-tail	0.038410414	
t Critical two-tail	2.10092204	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.060428571	0.039
Variance	0.003696879	0.0008728
Observations	14	6
Hypothesized Mean Difference	0	
df	17	
t Stat	1.058889506	
P(T<=t) one-tail	0.152232265	
t Critical one-tail	1.739606726	
P(T<=t) two-tail	0.30446453	
t Critical two-tail	2.109815578	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.001785714	0.0015
Variance	4.02747E-06	0.0000007
Observations	14	6
Hypothesized Mean Difference	0	
df	18	
t Stat	0.449321131	
P(T<=t) one-tail	0.329281631	
t Critical one-tail	1.734063607	
P(T<=t) two-tail	0.658563262	
t Critical two-tail	2.10092204	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.056285714	0.0245
Variance	0.01104822	5.91E-05
Observations	14	6
Hypothesized Mean Difference	0	
df	13	
t Stat	1.124491716	
P(T<=t) one-tail	0.140569687	
t Critical one-tail	1.770933396	
P(T<=t) two-tail	0.281139374	
t Critical two-tail	2.160368656	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.000285714	0.000333333
Variance	2.1978E-07	2.66667E-07
Observations	14	6
Hypothesized Mean Difference	0	
df	9	
t Stat	-0.19417265	
P(T<=t) one-tail	0.425176363	
t Critical one-tail	1.833112933	
P(T<=t) two-tail	0.850352726	
t Critical two-tail	2.262157163	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.017357143	0.026833333
Variance	0.000621016	0.002518967
Observations	14	6
Hypothesized Mean Difference	0	
df	6	
t Stat	-0.4398329	
P(T<=t) one-tail	0.337729289	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.675458578	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.009928571	0.001333333
Variance	0.000418533	1.86667E-06
Observations	14	6
Hypothesized Mean Difference	0	
df	13	
t Stat	1.563900002	
P(T<=t) one-tail	0.070924532	
t Critical one-tail	1.770933396	
P(T<=t) two-tail	0.141849063	
t Critical two-tail	2.160368656	

Carnlough vs Portbraddan flint from Northern Ireland Chalk formation

t-Test: Two-Sample Assuming Unequal Variances		
BERYLLIUM		
	Variable 1	*Variable 2*
Mean	0.000545455	0.000333333
Variance	4.72727E-07	3.33333E-07
Observations	11	3
Hypothesized Mean Difference	0	
df	4	
t Stat	0.540383477	
P(T<=t) one-tail	0.308807863	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.617615727	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
POTASSIUM		
	Variable 1	*Variable 2*
Mean	21.30828571	1.0235
Variance	2322.224109	0.2642645
Observations	7	2
Hypothesized Mean Difference	0	
df	6	
t Stat	1.113476123	
P(T<=t) one-tail	0.154056002	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.308112005	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	29.20333333	18.503
Variance	294.576025	106.240627
Observations	9	3
Hypothesized Mean Difference	0	
df	6	
t Stat	1.296232245	
P(T<=t) one-tail	0.121258951	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.242517903	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.035545455	0.048333333
Variance	0.000444673	0.000472333
Observations	11	3
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.90909521	
P(T<=t) one-tail	0.215161769	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.430323538	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.031	0.004
Variance	0.001363	0.000008
Observations	11	2
Hypothesized Mean Difference	0	
df	11	
t Stat	2.387333312	
P(T<=t) one-tail	0.018015456	
t Critical one-tail	1.795884819	
P(T<=t) two-tail	0.036030911	
t Critical two-tail	2.20098516	

t-Test: Two-Sample Assuming Unequal Variances		
CAESIUM		
	Variable 1	*Variable 2*
Mean	0.029333333	0.004
Variance	0.005168	0.000018
Observations	9	2
Hypothesized Mean Difference	0	
df	8	
t Stat	1.04899956	
P(T<=t) one-tail	0.162416227	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.324832454	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	8.007642857	8.515
Variance	238.5266801	54.277825
Observations	14	3
Hypothesized Mean Difference	0	
df	7	
t Stat	-0.08559991	
P(T<=t) one-tail	0.467090691	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.934181381	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.642785714	1.636
Variance	1.13858772	1.808044
Observations	14	3
Hypothesized Mean Difference	0	
df	3	
t Stat	-1.20091437	
P(T<=t) one-tail	0.157977701	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.315955402	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.228714286	1.296333333
Variance	0.719769758	1.707105333
Observations	14	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-0.08584532	
P(T<=t) one-tail	0.469704859	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.939409718	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	1.085928571	1.186333333
Variance	0.205607456	0.427366333
Observations	14	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-0.25328449	
P(T<=t) one-tail	0.411852975	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.823705951	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.046428571	0.056666667
Variance	0.00027411	0.000394333
Observations	14	3
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.83309894	
P(T<=t) one-tail	0.232955909	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.465911817	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	7.359928571	8.164
Variance	9.735133764	17.557897
Observations	14	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-0.31422471	
P(T<=t) one-tail	0.391549563	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.783099127	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.003214286	0.002
Variance	4.02747E-06	0
Observations	14	3
Hypothesized Mean Difference	0	
df	13	
t Stat	2.263959274	
P(T<=t) one-tail	0.020663823	
t Critical one-tail	1.770933396	
P(T<=t) two-tail	0.041327645	
t Critical two-tail	2.160368656	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.060428571	0.129666667
Variance	0.003696879	0.008192333
Observations	14	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-1.2651973	
P(T<=t) one-tail	0.166624767	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.333249534	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.001785714	0.002
Variance	4.02747E-06	0.000001
Observations	14	3
Hypothesized Mean Difference	0	
df	6	
t Stat	-0.27192175	
P(T<=t) one-tail	0.397398452	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.794796905	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.056285714	0.054333333
Variance	0.01104822	0.000460333
Observations	14	3
Hypothesized Mean Difference	0	
df	15	
t Stat	0.063591659	
P(T<=t) one-tail	0.475067536	
t Critical one-tail	1.753050356	
P(T<=t) two-tail	0.950135071	
t Critical two-tail	2.131449546	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.000285714	0.000666667
Variance	2.1978E-07	1.33333E-06
Observations	14	3
Hypothesized Mean Difference	0	
df	2	
t Stat	-0.56159634	
P(T<=t) one-tail	0.315463554	
t Critical one-tail	2.91998558	
P(T<=t) two-tail	0.630927107	
t Critical two-tail	4.30265273	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.017357143	0.033
Variance	0.000621016	0.000741
Observations	14	3
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.91643648	
P(T<=t) one-tail	0.213508957	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.427017914	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.009928571	0.005333333
Variance	0.000418533	1.73333E-05
Observations	14	3
Hypothesized Mean Difference	0	
df	15	
t Stat	0.769375344	
P(T<=t) one-tail	0.226808084	
t Critical one-tail	1.753050356	
P(T<=t) two-tail	0.453616169	
t Critical two-tail	2.131449546	

Carnlough vs White Park Bay flint from Northern Ireland Chalk formation

t-Test: Two-Sample Assuming Unequal Variances		
BERYLLIUM		
	Variable 1	*Variable 2*
Mean	0.000625	0.000545455
Variance	0.000001125	4.72727E-07
Observations	8	11
Hypothesized Mean Difference	0	
df	11	
t Stat	0.185643089	
P(T<=t) one-tail	0.428051786	
t Critical one-tail	1.795884819	
P(T<=t) two-tail	0.856103572	
t Critical two-tail	2.20098516	

t-Test: Two-Sample Assuming Unequal Variances		
POTASSIUM		
	Variable 1	*Variable 2*
Mean	0.598	21.30828571
Variance	0.173104	2322.224109
Observations	3	7
Hypothesized Mean Difference	0	
df	6	
t Stat	-1.13696025	
P(T<=t) one-tail	0.149457179	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.298914358	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	27.54933333	29.20333333
Variance	484.9094235	294.576025
Observations	6	9
Hypothesized Mean Difference	0	
df	9	
t Stat	-0.15521869	
P(T<=t) one-tail	0.440037165	
t Critical one-tail	1.833112933	
P(T<=t) two-tail	0.880074329	
t Critical two-tail	2.262157163	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.0258	0.035545455
Variance	0.0001247	0.000444673
Observations	5	11
Hypothesized Mean Difference	0	
df	13	
t Stat	-1.20539713	
P(T<=t) one-tail	0.124766652	
t Critical one-tail	1.770933396	
P(T<=t) two-tail	0.249533304	
t Critical two-tail	2.160368656	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.020166667	0.031
Variance	0.001032967	0.001363
Observations	6	11
Hypothesized Mean Difference	0	
df	12	
t Stat	-0.62960005	
P(T<=t) one-tail	0.270379218	
t Critical one-tail	1.782287556	
P(T<=t) two-tail	0.540758435	
t Critical two-tail	2.17881283	

t-Test: Two-Sample Assuming Unequal Variances		
CAESIUM		
	Variable 1	*Variable 2*
Mean	0.001666667	0.029333333
Variance	3.86667E-06	0.005168
Observations	6	9
Hypothesized Mean Difference	0	
df	8	
t Stat	-1.15391355	
P(T<=t) one-tail	0.140920609	
t Critical one-tail	1.859548038	
P(T<=t) two-tail	0.281841219	
t Critical two-tail	2.306004135	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	4.248875	8.007642857
Variance	3.182408125	238.5266801
Observations	8	14
Hypothesized Mean Difference	0	
df	14	
t Stat	-0.90017984	
P(T<=t) one-tail	0.191623957	
t Critical one-tail	1.761310136	
P(T<=t) two-tail	0.383247914	
t Critical two-tail	2.144786688	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.694125	0.642785714
Variance	0.076577554	1.13858772
Observations	8	14
Hypothesized Mean Difference	0	
df	16	
t Stat	0.170281766	
P(T<=t) one-tail	0.433461566	
t Critical one-tail	1.745883676	
P(T<=t) two-tail	0.866923133	
t Critical two-tail	2.119905299	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.34375	1.228714286
Variance	0.563129071	0.719769758
Observations	8	14
Hypothesized Mean Difference	0	
df	16	
t Stat	0.32961217	
P(T<=t) one-tail	0.372984394	
t Critical one-tail	1.745883676	
P(T<=t) two-tail	0.745968787	
t Critical two-tail	2.119905299	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.72975	1.085928571
Variance	0.038567929	0.205607456
Observations	8	14
Hypothesized Mean Difference	0	
df	19	
t Stat	-2.55017449	
P(T<=t) one-tail	0.009775904	
t Critical one-tail	1.729132812	
P(T<=t) two-tail	0.019551808	
t Critical two-tail	2.093024054	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.0375	0.046428571
Variance	0.000119714	0.00027411
Observations	8	14
Hypothesized Mean Difference	0	
df	19	
t Stat	-1.51914213	
P(T<=t) one-tail	0.072596198	
t Critical one-tail	1.729132812	
P(T<=t) two-tail	0.145192396	
t Critical two-tail	2.093024054	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	4.72625	7.359928571
Variance	2.576081071	9.735133764
Observations	8	14
Hypothesized Mean Difference	0	
df	20	
t Stat	-2.61109004	
P(T<=t) one-tail	0.008360369	
t Critical one-tail	1.724718243	
P(T<=t) two-tail	0.016720739	
t Critical two-tail	2.085963447	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.002	0.003214286
Variance	8.57143E-07	4.02747E-06
Observations	8	14
Hypothesized Mean Difference	0	
df	19	
t Stat	-1.93250936	
P(T<=t) one-tail	0.034172035	
t Critical one-tail	1.729132812	
P(T<=t) two-tail	0.06834407	
t Critical two-tail	2.093024054	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.057625	0.060428571
Variance	0.002543696	0.003696879
Observations	8	14
Hypothesized Mean Difference	0	
df	17	
t Stat	-0.11620929	
P(T<=t) one-tail	0.454424216	
t Critical one-tail	1.739606726	
P(T<=t) two-tail	0.908848432	
t Critical two-tail	2.109815578	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.00175	0.001785714
Variance	1.64286E-06	4.02747E-06
Observations	8	14
Hypothesized Mean Difference	0	
df	20	
t Stat	-0.0508632	
P(T<=t) one-tail	0.47996955	
t Critical one-tail	1.724718243	
P(T<=t) two-tail	0.9599391	
t Critical two-tail	2.085963447	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.055375	0.056285714
Variance	0.001878268	0.01104822
Observations	8	14
Hypothesized Mean Difference	0	
df	19	
t Stat	-0.02846063	
P(T<=t) one-tail	0.488795795	
t Critical one-tail	1.729132812	
P(T<=t) two-tail	0.97759159	
t Critical two-tail	2.093024054	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.0005	0.000285714
Variance	5.71429E-07	2.1978E-07
Observations	8	14
Hypothesized Mean Difference	0	
df	10	
t Stat	0.725966271	
P(T<=t) one-tail	0.242251831	
t Critical one-tail	1.812461123	
P(T<=t) two-tail	0.484503662	
t Critical two-tail	2.228138852	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.02275	0.017357143
Variance	0.000863643	0.000621016
Observations	8	14
Hypothesized Mean Difference	0	
df	13	
t Stat	0.436967829	
P(T<=t) one-tail	0.334652623	
t Critical one-tail	1.770933396	
P(T<=t) two-tail	0.669305246	
t Critical two-tail	2.160368656	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.003625	0.009928571
Variance	7.69643E-06	0.000418533
Observations	8	14
Hypothesized Mean Difference	0	
df	14	
t Stat	-1.1347703	
P(T<=t) one-tail	0.137763754	
t Critical one-tail	1.761310136	
P(T<=t) two-tail	0.275527509	
t Critical two-tail	2.144786688	

Northern Chalk province vs Transitional Chalk province flint

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	19.44607143	30.77
Variance	321.5664095	2.0808
Observations	14	2
Hypothesized Mean Difference	0	
df	14	
t Stat	-2.311033299	
P(T<=t) one-tail	0.018288277	
t Critical one-tail	1.761310136	
P(T<=t) two-tail	0.036576554	
t Critical two-tail	2.144786688	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.003346154	0.004
Variance	4.15538E-06	0.000004
Observations	26	3
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.535085285	
P(T<=t) one-tail	0.314856003	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.629712005	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
BERYLLIUM		
	Variable 1	*Variable 2*
Mean	8.69565E-05	0.0002
Variance	8.3004E-08	0.0000002
Observations	23	5
Hypothesized Mean Difference	0	
df	5	
t Stat	-0.541325029	
P(T<=t) one-tail	0.305760836	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.611521671	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	2.677192308	69.8282
Variance	0.501313122	21271.749
Observations	26	5
Hypothesized Mean Difference	0	
df	4	
t Stat	-1.029520388	
P(T<=t) one-tail	0.180706717	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.361413434	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.341230769	0.5002
Variance	0.070475865	0.3672757
Observations	26	5
Hypothesized Mean Difference	0	
df	4	
t Stat	-0.576014228	
P(T<=t) one-tail	0.297731418	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.595462835	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.088115385	1.0304
Variance	0.109885066	0.5484728
Observations	26	5
Hypothesized Mean Difference	0	
df	4	
t Stat	0.170997544	
P(T<=t) one-tail	0.436263571	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.872527141	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
POTASSIUM		
	Variable 1	*Variable 2*
Mean	0.498807692	6.9065
Variance	0.123947202	174.13262
Observations	26	4
Hypothesized Mean Difference	0	
df	3	
t Stat	-0.971108592	
P(T<=t) one-tail	0.201561054	
t Critical one-tail	2.353363435	
P(T<=t) two-tail	0.403122108	
t Critical two-tail	3.182446305	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.864538462	0.9688
Variance	0.063205458	0.1132527
Observations	26	5
Hypothesized Mean Difference	0	
df	5	
t Stat	-0.658335402	
P(T<=t) one-tail	0.269711694	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.539423388	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.062461538	0.042
Variance	0.000785538	0.0002285
Observations	26	5
Hypothesized Mean Difference	0	
df	10	
t Stat	2.348443717	
P(T<=t) one-tail	0.020374323	
t Critical one-tail	1.812461123	
P(T<=t) two-tail	0.040748646	
t Critical two-tail	2.228138852	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	6.846961538	6.46
Variance	4.726622038	8.2225655
Observations	26	5
Hypothesized Mean Difference	0	
df	5	
t Stat	0.286339326	
P(T<=t) one-tail	0.393051682	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.786103363	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.002307692	0.003
Variance	2.14154E-06	0.0000035
Observations	26	5
Hypothesized Mean Difference	0	
df	5	
t Stat	-0.782697475	
P(T<=t) one-tail	0.23461702	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.469234039	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.026576923	0.0156
Variance	9.40138E-05	0.0001928
Observations	26	5
Hypothesized Mean Difference	0	
df	5	
t Stat	1.690239914	
P(T<=t) one-tail	0.075887266	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.151774532	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.096884615	0.035
Variance	0.027510666	0.000606
Observations	26	5
Hypothesized Mean Difference	0	
df	29	
t Stat	1.80206345	
P(T<=t) one-tail	0.040969936	
t Critical one-tail	1.699127027	
P(T<=t) two-tail	0.081939872	
t Critical two-tail	2.045229642	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.000846154	0.0024
Variance	2.95385E-07	0.0000018
Observations	26	5
Hypothesized Mean Difference	0	
df	4	
t Stat	-2.549822224	
P(T<=t) one-tail	0.031658677	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.063317355	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.030846154	0.0318
Variance	0.000508535	0.0007652
Observations	26	5
Hypothesized Mean Difference	0	
df	5	
t Stat	-0.072603763	
P(T<=t) one-tail	0.472468146	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.944936291	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.000115385	0
Variance	1.86154E-07	0
Observations	26	5
Hypothesized Mean Difference	0	
df	25	
t Stat	1.363636364	
P(T<=t) one-tail	0.092417998	
t Critical one-tail	1.708140761	
P(T<=t) two-tail	0.184835996	
t Critical two-tail	2.059538553	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.039115385	0.0448
Variance	0.001086826	0.0053082
Observations	26	5
Hypothesized Mean Difference	0	
df	4	
t Stat	-0.171130148	
P(T<=t) one-tail	0.436214742	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.872429484	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.002	0.0044
Variance	0.00000232	0.0000128
Observations	26	5
Hypothesized Mean Difference	0	
df	4	
t Stat	-1.474522305	
P(T<=t) one-tail	0.107178969	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.214357939	
t Critical two-tail	2.776445105	

Northern Chalk province vs Southern Chalk province flint

t-Test: Two-Sample Assuming Unequal Variances		
BERYLLIUM		
	Variable 1	*Variable 2*
Mean	8.69565E-05	0.000352941
Variance	8.3004E-08	4.92647E-07
Observations	23	17
Hypothesized Mean Difference	0	
df	20	
t Stat	-1.473421559	
P(T<=t) one-tail	0.078101422	
t Critical one-tail	1.724718243	
P(T<=t) two-tail	0.156202844	
t Critical two-tail	2.085963447	

t-Test: Two-Sample Assuming Unequal Variances		
POTASSIUM		
	Variable 1	*Variable 2*
Mean	0.498807692	15.08930769
Variance	0.123947202	1241.902123
Observations	26	13
Hypothesized Mean Difference	0	
df	12	
t Stat	-1.492750862	
P(T<=t) one-tail	0.080660276	
t Critical one-tail	1.782287556	
P(T<=t) two-tail	0.161320551	
t Critical two-tail	2.17881283	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	19.44607143	24.67070588
Variance	321.5664095	27.37747597
Observations	14	17
Hypothesized Mean Difference	0	
df	15	
t Stat	-1.053827826	
P(T<=t) one-tail	0.154320902	
t Critical one-tail	1.753050356	
P(T<=t) two-tail	0.308641804	
t Critical two-tail	2.131449546	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.026576923	0.035166667
Variance	9.40138E-05	0.000752853
Observations	26	18
Hypothesized Mean Difference	0	
df	20	
t Stat	-1.274253617	
P(T<=t) one-tail	0.108590759	
t Critical one-tail	1.724718243	
P(T<=t) two-tail	0.217181517	
t Critical two-tail	2.085963447	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.003346154	0.022052632
Variance	4.15538E-06	0.000949942
Observations	26	19
Hypothesized Mean Difference	0	
df	18	
t Stat	-2.641358504	
P(T<=t) one-tail	0.008294477	
t Critical one-tail	1.734063607	
P(T<=t) two-tail	0.016588955	
t Critical two-tail	2.10092204	

t-Test: Two-Sample Assuming Unequal Variances		
CAESIUM		
	Variable 1	*Variable 2*
Mean	0	0.013421053
Variance	0	0.001072368
Observations	3	19
Hypothesized Mean Difference	0	
df	18	
t Stat	-1.786452082	
P(T<=t) one-tail	0.045440602	
t Critical one-tail	1.734063607	
P(T<=t) two-tail	0.090881203	
t Critical two-tail	2.10092204	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	2.677192308	7.898892857
Variance	0.501313122	198.173034
Observations	26	28
Hypothesized Mean Difference	0	
df	27	
t Stat	-1.960098684	
P(T<=t) one-tail	0.030189808	
t Critical one-tail	1.703288446	
P(T<=t) two-tail	0.060379616	
t Critical two-tail	2.051830516	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.341230769	0.587928571
Variance	0.070475865	0.737985328
Observations	26	28
Hypothesized Mean Difference	0	
df	32	
t Stat	-1.446983118	
P(T<=t) one-tail	0.07881373	
t Critical one-tail	1.693888748	
P(T<=t) two-tail	0.157627461	
t Critical two-tail	2.036933343	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.088115385	1.337035714
Variance	0.109885066	0.717880036
Observations	26	28
Hypothesized Mean Difference	0	
df	36	
t Stat	-1.440388613	
P(T<=t) one-tail	0.079199231	
t Critical one-tail	1.688297714	
P(T<=t) two-tail	0.158398463	
t Critical two-tail	2.028094001	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.864538462	0.869214286
Variance	0.063205458	0.065894026
Observations	26	28
Hypothesized Mean Difference	0	
df	52	
t Stat	-0.067600091	
P(T<=t) one-tail	0.473181622	
t Critical one-tail	1.674689154	
P(T<=t) two-tail	0.946363245	
t Critical two-tail	2.006646805	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.062461538	0.036142857
Variance	0.000785538	0.000125831
Observations	26	28
Hypothesized Mean Difference	0	
df	32	
t Stat	4.467409564	
P(T<=t) one-tail	4.63569E-05	
t Critical one-tail	1.693888748	
P(T<=t) two-tail	9.27139E-05	
t Critical two-tail	2.036933343	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	6.846961538	6.327607143
Variance	4.726622038	6.082839803
Observations	26	28
Hypothesized Mean Difference	0	
df	52	
t Stat	0.822161228	
P(T<=t) one-tail	0.207369604	
t Critical one-tail	1.674689154	
P(T<=t) two-tail	0.414739208	
t Critical two-tail	2.006646805	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.002307692	0.073892857
Variance	2.14154E-06	0.069246396
Observations	26	28
Hypothesized Mean Difference	0	
df	27	
t Stat	-1.439448817	
P(T<=t) one-tail	0.080758694	
t Critical one-tail	1.703288446	
P(T<=t) two-tail	0.161517387	
t Critical two-tail	2.051830516	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.096884615	0.098642857
Variance	0.027510666	0.007205497
Observations	26	28
Hypothesized Mean Difference	0	
df	37	
t Stat	-0.048477787	
P(T<=t) one-tail	0.480798104	
t Critical one-tail	1.68709362	
P(T<=t) two-tail	0.961596208	
t Critical two-tail	2.026192463	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.000846154	0.005464286
Variance	2.95385E-07	0.000172851
Observations	26	28
Hypothesized Mean Difference	0	
df	27	
t Stat	-1.856994972	
P(T<=t) one-tail	0.037126599	
t Critical one-tail	1.703288446	
P(T<=t) two-tail	0.074253198	
t Critical two-tail	2.051830516	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.030846154	0.089714286
Variance	0.000508535	0.067027175
Observations	26	28
Hypothesized Mean Difference	0	
df	27	
t Stat	-1.198303409	
P(T<=t) one-tail	0.120605941	
t Critical one-tail	1.703288446	
P(T<=t) two-tail	0.241211883	
t Critical two-tail	2.051830516	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.000115385	0.001321429
Variance	1.86154E-07	1.4078E-05
Observations	26	28
Hypothesized Mean Difference	0	
df	28	
t Stat	-1.688887108	
P(T<=t) one-tail	0.051174471	
t Critical one-tail	1.701130934	
P(T<=t) two-tail	0.102348942	
t Critical two-tail	2.048407142	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.039115385	0.083607143
Variance	0.001086826	0.01765084
Observations	26	28
Hypothesized Mean Difference	0	
df	31	
t Stat	-1.71606662	
P(T<=t) one-tail	0.048064531	
t Critical one-tail	1.695518783	
P(T<=t) two-tail	0.096129061	
t Critical two-tail	2.039513446	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.002	0.064107143
Variance	0.00000232	0.057824914
Observations	26	28
Hypothesized Mean Difference	0	
df	27	
t Stat	-1.366638611	
P(T<=t) one-tail	0.091506014	
t Critical one-tail	1.703288446	
P(T<=t) two-tail	0.183012028	
t Critical two-tail	2.051830516	

Transitional Chalk province vs Southern Chalk province flint

t-Test: Two-Sample Assuming Unequal Variances		
BERYLLIUM		
	Variable 1	*Variable 2*
Mean	0.000352941	0.0002
Variance	4.92647E-07	0.0000002
Observations	17	5
Hypothesized Mean Difference	0	
df	11	
t Stat	0.582324722	
P(T<=t) one-tail	0.286045242	
t Critical one-tail	1.795884819	
P(T<=t) two-tail	0.572090484	
t Critical two-tail	2.20098516	

t-Test: Two-Sample Assuming Unequal Variances		
POTASSIUM		
	Variable 1	*Variable 2*
Mean	15.08930769	6.9065
Variance	1241.902123	174.13262
Observations	13	4
Hypothesized Mean Difference	0	
df	14	
t Stat	0.693896742	
P(T<=t) one-tail	0.249549787	
t Critical one-tail	1.761310136	
P(T<=t) two-tail	0.499099574	
t Critical two-tail	2.144786688	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	24.67070588	30.77
Variance	27.37747597	2.0808
Observations	17	2
Hypothesized Mean Difference	0	
df	6	
t Stat	-3.74617307	
P(T<=t) one-tail	0.004776363	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.009552726	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.035166667	0.0156
Variance	0.000752853	0.0001928
Observations	18	5
Hypothesized Mean Difference	0	
df	14	
t Stat	2.182372583	
P(T<=t) one-tail	0.023306836	
t Critical one-tail	1.761310136	
P(T<=t) two-tail	0.046613671	
t Critical two-tail	2.144786688	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.022052632	0.004
Variance	0.000949942	0.000004
Observations	19	3
Hypothesized Mean Difference	0	
df	19	
t Stat	2.519728837	
P(T<=t) one-tail	0.010426847	
t Critical one-tail	1.729132812	
P(T<=t) two-tail	0.020853694	
t Critical two-tail	2.093024054	

t-Test: Two-Sample Assuming Unequal Variances		
CAESIUM		
	Variable 1	*Variable 2*
Mean	0.013421053	0.006
Variance	0.001072368	0.000114
Observations	19	5
Hypothesized Mean Difference	0	
df	20	
t Stat	0.83366595	
P(T<=t) one-tail	0.207157702	
t Critical one-tail	1.724718243	
P(T<=t) two-tail	0.414315403	
t Critical two-tail	2.085963447	

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	7.898892857	69.8282
Variance	198.173034	21271.749
Observations	28	5
Hypothesized Mean Difference	0	
df	4	
t Stat	-0.94867766	
P(T<=t) one-tail	0.198252002	
t Critical one-tail	2.131846786	
P(T<=t) two-tail	0.396504004	
t Critical two-tail	2.776445105	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.587928571	0.5002
Variance	0.737985328	0.3672757
Observations	28	5
Hypothesized Mean Difference	0	
df	7	
t Stat	0.277683582	
P(T<=t) one-tail	0.394638808	
t Critical one-tail	1.894578605	
P(T<=t) two-tail	0.789277615	
t Critical two-tail	2.364624252	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.337035714	1.0304
Variance	0.717880036	0.5484728
Observations	28	5
Hypothesized Mean Difference	0	
df	6	
t Stat	0.833528913	
P(T<=t) one-tail	0.218232355	
t Critical one-tail	1.943180281	
P(T<=t) two-tail	0.43646471	
t Critical two-tail	2.446911851	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.869214286	0.9688
Variance	0.065894026	0.1132527
Observations	28	5
Hypothesized Mean Difference	0	
df	5	
t Stat	-0.62978626	
P(T<=t) one-tail	0.278244264	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.556488528	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.036142857	0.042
Variance	0.000125831	0.0002285
Observations	28	5
Hypothesized Mean Difference	0	
df	5	
t Stat	-0.82672318	
P(T<=t) one-tail	0.223019507	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.446039013	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	6.327607143	6.46
Variance	6.082839803	8.2225655
Observations	28	5
Hypothesized Mean Difference	0	
df	5	
t Stat	-0.09702933	
P(T<=t) one-tail	0.463236217	
t Critical one-tail	2.015048373	
P(T<=t) two-tail	0.926472434	
t Critical two-tail	2.570581836	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.073892857	0.003
Variance	0.069246396	0.0000035
Observations	28	5
Hypothesized Mean Difference	0	
df	27	
t Stat	1.425349787	
P(T<=t) one-tail	0.082757449	
t Critical one-tail	1.703288446	
P(T<=t) two-tail	0.165514898	
t Critical two-tail	2.051830516	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.098642857	0.035
Variance	0.007205497	0.000606
Observations	28	5
Hypothesized Mean Difference	0	
df	23	
t Stat	3.271103181	
P(T<=t) one-tail	0.001677735	
t Critical one-tail	1.713871528	
P(T<=t) two-tail	0.003355469	
t Critical two-tail	2.06865761	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.005464286	0.0024
Variance	0.000172851	0.0000018
Observations	28	5
Hypothesized Mean Difference	0	
df	30	
t Stat	1.198850909	
P(T<=t) one-tail	0.119985134	
t Critical one-tail	1.697260887	
P(T<=t) two-tail	0.239970268	
t Critical two-tail	2.042272456	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.089714286	0.0318
Variance	0.067027175	0.0007652
Observations	28	5
Hypothesized Mean Difference	0	
df	30	
t Stat	1.147578795	
P(T<=t) one-tail	0.130106007	
t Critical one-tail	1.697260887	
P(T<=t) two-tail	0.260212014	
t Critical two-tail	2.042272456	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.001321429	0
Variance	1.4078E-05	0
Observations	28	5
Hypothesized Mean Difference	0	
df	27	
t Stat	1.863595165	
P(T<=t) one-tail	0.036644448	
t Critical one-tail	1.703288446	
P(T<=t) two-tail	0.073288897	
t Critical two-tail	2.051830516	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.083607143	0.0448
Variance	0.01765084	0.0053082
Observations	28	5
Hypothesized Mean Difference	0	
df	10	
t Stat	0.943426361	
P(T<=t) one-tail	0.183848698	
t Critical one-tail	1.812461123	
P(T<=t) two-tail	0.367697395	
t Critical two-tail	2.228138852	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.064107143	0.0044
Variance	0.057824914	0.0000128
Observations	28	5
Hypothesized Mean Difference	0	
df	27	
t Stat	1.313042543	
P(T<=t) one-tail	0.100109683	
t Critical one-tail	1.703288446	
P(T<=t) two-tail	0.200219367	
t Critical two-tail	2.051830516	

Northern Ireland Chalk formation flint vs all English Chalk province flint

t-Test: Two-Sample Assuming Unequal Variances		
SODIUM		
	Variable 1	*Variable 2*
Mean	9.516656716	10.84605085
Variance	309.036738	1893.497549
Observations	67	59
Hypothesized Mean Difference	0	
df	75	
t Stat	-0.219425549	
P(T<=t) one-tail	0.413457329	
t Critical one-tail	1.665425373	
P(T<=t) two-tail	0.826914659	
t Critical two-tail	1.992102154	

t-Test: Two-Sample Assuming Unequal Variances		
MAGNESIUM		
	Variable 1	*Variable 2*
Mean	0.786537313	0.471779661
Variance	0.639947252	0.413474071
Observations	67	59
Hypothesized Mean Difference	0	
df	123	
t Stat	2.445979783	
P(T<=t) one-tail	0.007930313	
t Critical one-tail	1.657336397	
P(T<=t) two-tail	0.015860625	
t Critical two-tail	1.979438685	

t-Test: Two-Sample Assuming Unequal Variances		
ALUMINIUM		
	Variable 1	*Variable 2*
Mean	1.735134328	1.201355932
Variance	1.272464694	0.436530509
Observations	67	59
Hypothesized Mean Difference	0	
df	109	
t Stat	3.285749473	
P(T<=t) one-tail	0.000684306	
t Critical one-tail	1.658953458	
P(T<=t) two-tail	0.001368612	
t Critical two-tail	1.98196749	

t-Test: Two-Sample Assuming Unequal Variances		
CHROMIUM		
	Variable 1	*Variable 2*
Mean	0.945552239	0.87559322
Variance	0.133215918	0.066552418
Observations	67	59
Hypothesized Mean Difference	0	
df	119	
t Stat	1.253209776	
P(T<=t) one-tail	0.106293073	
t Critical one-tail	1.657759285	
P(T<=t) two-tail	0.212586146	
t Critical two-tail	1.980099876	

t-Test: Two-Sample Assuming Unequal Variances		
MANGANESE		
	Variable 1	*Variable 2*
Mean	0.052910448	0.048237288
Variance	0.000751931	0.000577598
Observations	67	59
Hypothesized Mean Difference	0	
df	124	
t Stat	1.019460044	
P(T<=t) one-tail	0.15498476	
t Critical one-tail	1.65723497	
P(T<=t) two-tail	0.309969519	
t Critical two-tail	1.979280117	

t-Test: Two-Sample Assuming Unequal Variances		
IRON		
	Variable 1	*Variable 2*
Mean	6.397164179	6.567694915
Variance	6.451463321	5.499865423
Observations	67	59
Hypothesized Mean Difference	0	
df	124	
t Stat	-0.391731284	
P(T<=t) one-tail	0.347964584	
t Critical one-tail	1.65723497	
P(T<=t) two-tail	0.695929167	
t Critical two-tail	1.979280117	

t-Test: Two-Sample Assuming Unequal Variances		
COBALT		
	Variable 1	*Variable 2*
Mean	0.062626866	0.036338983
Variance	0.058065934	0.033532366
Observations	67	59
Hypothesized Mean Difference	0	
df	121	
t Stat	0.693952136	
P(T<=t) one-tail	0.24452118	
t Critical one-tail	1.657544319	
P(T<=t) two-tail	0.48904236	
t Critical two-tail	1.979763763	

t-Test: Two-Sample Assuming Unequal Variances		
COPPER		
	Variable 1	*Variable 2*
Mean	0.079731343	0.092474576
Variance	0.003989563	0.015565978
Observations	67	59
Hypothesized Mean Difference	0	
df	83	
t Stat	-0.708640276	
P(T<=t) one-tail	0.240266673	
t Critical one-tail	1.663420175	
P(T<=t) two-tail	0.480533346	
t Critical two-tail	1.98895978	

t-Test: Two-Sample Assuming Unequal Variances		
RUBIDIUM		
	Variable 1	*Variable 2*
Mean	0.005059701	0.003169492
Variance	0.00013733	8.57294E-05
Observations	67	59
Hypothesized Mean Difference	0	
df	123	
t Stat	1.00996478	
P(T<=t) one-tail	0.15724742	
t Critical one-tail	1.657336397	
P(T<=t) two-tail	0.31449484	
t Critical two-tail	1.979438685	

t-Test: Two-Sample Assuming Unequal Variances		
STRONTIUM		
	Variable 1	*Variable 2*
Mean	0.10961194	0.058864407
Variance	0.056630726	0.032348774
Observations	67	59
Hypothesized Mean Difference	0	
df	121	
t Stat	1.359435127	
P(T<=t) one-tail	0.088268423	
t Critical one-tail	1.657544319	
P(T<=t) two-tail	0.176536846	
t Critical two-tail	1.979763763	

t-Test: Two-Sample Assuming Unequal Variances		
BARIUM		
	Variable 1	*Variable 2*
Mean	0.058910448	0.060711864
Variance	0.013692022	0.009535278
Observations	67	59
Hypothesized Mean Difference	0	
df	124	
t Stat	-0.094164977	
P(T<=t) one-tail	0.462565047	
t Critical one-tail	1.65723497	
P(T<=t) two-tail	0.925130094	
t Critical two-tail	1.979280117	

t-Test: Two-Sample Assuming Unequal Variances		
LEAD		
	Variable 1	*Variable 2*
Mean	0.046723077	0.031677966
Variance	0.052978547	0.02788705
Observations	65	59
Hypothesized Mean Difference	0	
df	117	
t Stat	0.419261779	
P(T<=t) one-tail	0.337896796	
t Critical one-tail	1.657981659	
P(T<=t) two-tail	0.675793593	
t Critical two-tail	1.980447599	

t-Test: Two-Sample Assuming Unequal Variances		
LITHIUM		
	Variable 1	*Variable 2*
Mean	0.003095238	0.004615385
Variance	8.09048E-06	1.44231E-05
Observations	21	13
Hypothesized Mean Difference	0	
df	20	
t Stat	-1.243381301	
P(T<=t) one-tail	0.114052898	
t Critical one-tail	1.724718243	
P(T<=t) two-tail	0.228105796	
t Critical two-tail	2.085963447	

t-Test: Two-Sample Assuming Unequal Variances		
BERYLLIUM		
	Variable 1	*Variable 2*
Mean	0.0005	0.0002
Variance	6.69811E-07	2.54545E-07
Observations	54	45
Hypothesized Mean Difference	0	
df	90	
t Stat	2.232320885	
P(T<=t) one-tail	0.014037654	
t Critical one-tail	1.661961084	
P(T<=t) two-tail	0.028075308	
t Critical two-tail	1.986674541	

t-Test: Two-Sample Assuming Unequal Variances		
POTASSIUM		
	Variable 1	*Variable 2*
Mean	19.91745161	5.505953488
Variance	1545.998457	411.4751473
Observations	31	43
Hypothesized Mean Difference	0	
df	42	
t Stat	1.869258382	
P(T<=t) one-tail	0.034285051	
t Critical one-tail	1.681952357	
P(T<=t) two-tail	0.068570103	
t Critical two-tail	2.018081703	

t-Test: Two-Sample Assuming Unequal Variances		
CALCIUM		
	Variable 1	*Variable 2*
Mean	25.34140741	22.82384848
Variance	165.228439	155.1400836
Observations	54	33
Hypothesized Mean Difference	0	
df	69	
t Stat	0.903692726	
P(T<=t) one-tail	0.18465132	
t Critical one-tail	1.667238549	
P(T<=t) two-tail	0.369302639	
t Critical two-tail	1.994945415	

t-Test: Two-Sample Assuming Unequal Variances		
NICKEL		
	Variable 1	*Variable 2*
Mean	0.062981481	0.027958333
Variance	0.029597302	0.000354083
Observations	54	48
Hypothesized Mean Difference	0	
df	54	
t Stat	1.48601419	
P(T<=t) one-tail	0.071545374	
t Critical one-tail	1.673564906	
P(T<=t) two-tail	0.143090749	
t Critical two-tail	2.004879288	

t-Test: Two-Sample Assuming Unequal Variances		
MOLYBDENUM		
	Variable 1	*Variable 2*
Mean	0.035022222	0.010791667
Variance	0.003275431	0.000451062
Observations	45	48
Hypothesized Mean Difference	0	
df	55	
t Stat	2.672812187	
P(T<=t) one-tail	0.00493992	
t Critical one-tail	1.673033965	
P(T<=t) two-tail	0.009879839	
t Critical two-tail	2.004044783	

t-Test: Two-Sample Assuming Unequal Variances		
CADMIUM		
	Variable 1	*Variable 2*
Mean	0.001257576	0.000677966
Variance	1.14557E-05	7.0152E-06
Observations	66	59
Hypothesized Mean Difference	0	
df	121	
t Stat	1.071748096	
P(T<=t) one-tail	0.142983094	
t Critical one-tail	1.657544319	
P(T<=t) two-tail	0.285966188	
t Critical two-tail	1.979763763	

t-Test: Two-Sample Assuming Unequal Variances		
CAESIUM		
	Variable 1	*Variable 2*
Mean	0.019847826	0.010555556
Variance	0.002017999	0.000782795
Observations	46	27
Hypothesized Mean Difference	0	
df	71	
t Stat	1.088607923	
P(T<=t) one-tail	0.140004111	
t Critical one-tail	1.666599658	
P(T<=t) two-tail	0.280008222	
t Critical two-tail	1.993943368	