The FACTOR Procedure

Input Data Type	Raw Data
Number of Records Read	46620
Number of Records Used	46620
N for Significance Tests	46620

Means and Standard Deviations from 46620 Observations								
Variable	Mean	Std Dev						
mxOvarian	0.00000000	0.99934705						
mxNonhodgkin	0.00000000	0.99924404						
mxPancreatic	0.00000000	0.99954339						
mxUterine	0.00000000	0.99924401						
mxTesticular	0.00000000	0.99924381						
mxTracheal	0.00000000	0.99924404						
mxThroid	0.00000000	0.99924406						
mxStomach	0.00000000	0.99924406						
mxProstate	0.00000000	0.99924379						
mxMultiplemyeloma	00003763	0.99923139						
mxMaligantSkinMeloma	00001778	0.99924172						
mxLiver	00001171	0.99924463						
mxkidney	0.00000000	0.99924395						
mxcolon	0.00000000	0.99975008						
mybreast	0.00000000	0.99950842						
mxbladder	0.00000000	0.99949142						

The FACTOR Procedure **Initial Factor Method: Principal Components**

Prior Communality Estimates: ONE

	Eigenvalues of the Correlation Matrix: Total = 16 Average = 1								
	Eigenvalue	Difference	Proportion	Cumulative					
1	6.12435074	3.61921200	0.3828	0.3828					
2	2.50513874	0.52499967	0.1566	0.5393					
3	1.98013907	0.81598480	0.1238	0.6631					
4	1.16415427	0.24177812	0.0728	0.7359					
5	0.92237615	0.30491138	0.0576	0.7935					
6	0.61746478	0.09068874	0.0386	0.8321					
7	0.52677604	0.05174234	0.0329	0.8650					
8	0.47503370	0.10485598	0.0297	0.8947					
9	0.37017772	0.09200685	0.0231	0.9179					
10	0.27817086	0.04025190	0.0174	0.9352					
11	0.23791896	0.03363551	0.0149	0.9501					
12	0.20428345	0.03363768	0.0128	0.9629					
13	0.17064577	0.00645823	0.0107	0.9735					
14	0.16418755	0.02148140	0.0103	0.9838					
15	0.14270615	0.02623009	0.0089	0.9927					
16	0.11647605		0.0073	1.0000					

5 factors will be retained by the NFACTOR criterion.

Factor Pattern									
	Factor1	Factor2	Factor3	Factor4	Factor5				
mxOvarian	0.48354	0.43448	0.33865	0.23793	-0.37809				
mxNonhodgkin	0.48503	0.66125	0.02756	0.19907	0.24601				
mxPancreatic	0.88416	-0.15841	0.13994	-0.12747	-0.06560				
mxUterine	0.45453	-0.02083	0.54844	0.54326	0.12331				
mxTesticular	0.28185	0.42572	-0.64450	0.22092	-0.05796				
mxTracheal	0.78860	0.18713	-0.17231	-0.40587	0.01106				
mxThroid	0.53468	-0.08390	-0.40037	0.56838	-0.17035				
mxStomach	0.64276	-0.59952	-0.23861	0.02116	-0.24983				
mxProstate	0.60393	-0.35618	0.32255	-0.12135	0.07151				
mxMultiplemyeloma	0.72781	-0.22632	0.41975	-0.11596	0.17190				
mxMaligantSkinMeloma	-0.11431	-0.75347	0.10677	0.39419	0.16461				
mxLiver	-0.61800	0.38760	0.51160	0.07766	0.28868				
mxkidney	0.58445	0.13170	-0.46593	0.07285	0.54900				

The FACTOR Procedure **Initial Factor Method: Principal Components**

Factor Pattern									
	Factor1	Factor2	Factor3	Factor4	Factor5				
mxcolon	0.85578	0.05604	-0.03909	-0.11342	0.26762				
mybreast	0.83813	-0.08843	0.16744	-0.10455	-0.08348				
mxbladder	0.44810	0.58867	0.28641	-0.02830	-0.28177				

Variance Explained by Each Factor								
Factor1	Factor2	Factor3	Factor4	Factor5				
6.1243507	2.5051387	1.9801391	1.1641543	0.9223762				

Final Communality Estimates: Total = 12.696159								
mxOvarian	mxNonhodgkin	mxPancreatic	mxUterine	mxTesticular	mxTracheal	mxThroid	mxStomach	mxProstate
0.73683191	0.77340710	0.84696402	0.81814953	0.72822085	0.85144487	0.80529077	0.89236797	0.61546716

mxMultiplemyeloma	mxMaligantSkinMeloma	mxLiver	mxkidney	mxcolon	mybreast	mxbladder
0.80010768	0.77466711	0.88325615	0.88272007	0.82150035	0.75621496	0.70954847

The FACTOR Procedure **Rotation Method: Varimax**

	Orthogonal Transformation Matrix										
	1	2	3	4	5						
1	0.76820	0.33199	0.39377	0.36663	0.10094						
2	-0.34234	0.76761	-0.31932	0.40849	-0.15730						
3	0.35427	0.26736	-0.58809	-0.48305	0.47310						
4	-0.38547	0.05760	0.34027	0.15853	0.84094						
5	0.13631	-0.47514	-0.53042	0.66352	0.18457						

Rotated Factor Pattern								
	Factor1	Factor2	Factor3	Factor4	Factor5			
mxOvarian	0.19944	0.77793	0.13402	-0.02197	0.27099			
mxNonhodgkin	0.11278	0.57055	-0.09912	0.62941	0.17080			
mxPancreatic	0.82321	0.23318	0.30786	0.12812	0.06107			
mxUterine	0.35799	0.25425	-0.01745	0.06115	0.78823			
mxTesticular	-0.25061	0.28831	0.45998	0.58513	-0.16835			
mxTracheal	0.63865	0.33075	0.20813	0.39179	-0.37062			
mxThroid	0.05531	0.11975	0.75654	0.33222	0.32428			
mxStomach	0.57227	-0.19068	0.72458	-0.05640	0.01798			
mxProstate	0.75666	-0.02764	0.08263	-0.05167	0.18074			
mxMultiplemyeloma	0.85341	0.09177	-0.01863	0.06730	0.24186			
mxMaligantSkinMeloma	0.07845	-0.64328	0.17962	-0.22956	0.51937			
mxLiver	-0.41678	0.09645	-0.79468	-0.11151	0.23728			
mxkidney	0.28557	-0.08610	0.19567	0.86896	-0.01956			
mxcolon	0.70457	0.18299	0.16153	0.51511	0.01310			
mybreast	0.76236	0.28878	0.26849	0.11831	0.07440			
mxbladder	0.21667	0.80946	-0.04014	0.07496	0.01233			

Variance Explained by Each Factor								
Factor1	Factor2 Factor3 Factor4		Factor5					
4.3463684	2.5047510	2.2841683	2.1385946	1.4222766				

The FACTOR Procedure **Rotation Method: Varimax**

Final Communality Estimates: Total = 12.696159								
mxOvarian	mxNonhodgkin	mxPancreatic	mxUterine	mxTesticular	mxTracheal	mxThroid	mxStomach	mxProstate
0.73683191	0.77340710	0.84696402	0.81814953	0.72822085	0.85144487	0.80529077	0.89236797	0.61546716

mxMultiplemyeloma	mxMaligantSkinMeloma	mxLiver	mxkidney	mxcolon	mybreast	mxbladder
0.80010768	0.77466711	0.88325615	0.88272007	0.82150035	0.75621496	0.70954847

The FACTOR Procedure **Rotation Method: Varimax**

Scoring Coefficients Estimated by Regression

Squared Multiple Correlations of the Variables with Each Factor							
Factor1	Factor2	Factor3	Factor4	Factor5			
1.0000000	1.0000000	1.0000000	1.0000000	1.0000000			

Standardized Scoring Coefficients								
	Factor1	Factor2	Factor3	Factor4	Factor5			
mxOvarian	-0.07279	0.41160	0.16210	-0.22240	0.15782			
mxNonhodgkin	-0.05416	0.11575	-0.14457	0.33421	0.16609			
mxPancreatic	0.19010	0.04577	0.03594	-0.07159	-0.04725			
mxUterine	-0.00368	0.05567	-0.04312	0.05271	0.55694			
mxTesticular	-0.21985	0.09949	0.25317	0.23191	-0.02809			
mxTracheal	0.17854	0.05104	-0.04697	0.07245	-0.33089			
mxThroid	-0.20647	0.06509	0.42807	0.07085	0.29491			
mxStomach	0.07594	-0.05133	0.33846	-0.17791	-0.04348			
mxProstate	0.23288	-0.07569	-0.08816	-0.06569	0.03603			
mxMultiplemyeloma	0.26112	-0.06750	-0.18177	0.01214	0.07713			
mxMaligantSkinMeloma	0.00153	-0.28795	0.07754	0.01634	0.38862			
mxLiver	-0.02201	0.00948	-0.38439	0.11965	0.20158			
mxkidney	0.02896	-0.27007	-0.13525	0.57497	0.05252			
mxcolon	0.16979	-0.08518	-0.12756	0.24697	-0.02713			
mybreast	0.16945	0.07878	0.03287	-0.07938	-0.03286			
mxbladder	-0.00526	0.38708	0.02247	-0.15360	-0.03797			