|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Test** | **Comparison** | **Shape Area** | | | **Shape Error** | | |
| **Test Statistic** | ***R*2** | ***p* Value** | **Test Statistic** | ***R*2** | ***p* Value** |
| PERMANOVA | Location | 7.0671 | 0.0454 | ns | 29.5887 | 0.1102 | 2.46E-04 |
|  | Model | 8.0911 | 0.2771 | 0.043 | 8.4156 | 0.2508 | 4.30E-05 |
|  | Face | 2.9741 | 0.0255 | ns | 4.0050 | 0.0298 | 6.71E-03 |
|  | Model:Face | 1.0975 | 0.1268 | ns | 1.4911 | 0.1500 | 2.33E-02 |
|  | Location:Face | 2.6773 | 0.0458 | 9.76E-03\* | 2.8258 | 0.0421 | 3.45E-03 |
| Pairwise Location | Pool - LBTS | NA | | | 7.4794 | 0.0323 | 0.005 |
|  | Pool - SLR | 34.4381 | 0.1463 | 0.001 |
|  | LBTS - SLR | 12.7932 | 0.0640 | 0.001 |
| Pairwise Model | Pool1 - Pool3 | 4.8102 | 0.1124 | 0.011 | 9.8285 | 0.2055 | 0.001 |
|  | Pool1 - Pool4 | 0.1643 | 0.0043 | ns | 2.7522 | 0.0675 | ns |
|  | Pool1 - Pool5 | 12.0899 | 0.2414 | 0.001 | 8.6779 | 0.1859 | 0.002 |
|  | Pool1 - Pool6 | 11.8829 | 0.2382 | 0.001 | 14.1920 | 0.2719 | 0.001 |
|  | Pool1 - Pool7 | 5.6125 | 0.1287 | 0.01 | 3.7328 | 0.0894 | 0.038 |
|  | Pool3 - Pool4 | 2.6670 | 0.0656 | ns | 1.6284 | 0.0411 | ns |
|  | Pool3 - Pool5 | 17.1212 | 0.3106 | 0.001 | 20.9080 | 0.3549 | 0.001 |
|  | Pool3 - Pool6 | 15.0662 | 0.2839 | 0.001 | 30.0294 | 0.4414 | 0.001 |
|  | Pool3 - Pool7 | 11.9034 | 0.2385 | 0.001 | 16.4021 | 0.3015 | 0.001 |
|  | Pool4 - Pool5 | 4.2124 | 0.0998 | 0.016 | 9.4357 | 0.1989 | 0.001 |
|  | Pool4 - Pool6 | 3.6317 | 0.0872 | 0.022 | 15.0071 | 0.2831 | 0.001 |
|  | Pool4 - Pool7 | 1.9029 | 0.0477 | ns | 5.9832 | 0.1360 | 0.005 |
|  | Pool5 - Pool6 | 1.3523 | 0.0344 | ns | 0.8250 | 0.0212 | ns |
|  | Pool5 - Pool7 | 1.7565 | 0.0442 | ns | 1.2805 | 0.0326 | ns |
|  | Pool6 - Pool7 | 1.4416 | 0.0366 | ns | 3.7664 | 0.0902 | 0.030 |
|  | LBTS1 - LBTS2 | 0.6305 | 0.0187 | ns | 0.5657 | 0.0169 | ns |
|  | LBTS1 - LBTS3 | 2.4232 | 0.0665 | ns | 1.2158 | 0.0345 | ns |
|  | LBTS1 - LBTS5 | 0.3785 | 0.0110 | ns | 2.5988 | 0.0710 | ns |
|  | LBTS1 - LBTS6 | 0.2964 | 0.0105 | ns | 1.1246 | 0.0386 | ns |
|  | LBTS1 - LBTS7 | 5.1697 | 0.1470 | 0.028 | 0.0988 | 0.0033 | ns |
|  | LBTS1 - LBTS8 | 2.4504 | 0.0755 | ns | 1.2748 | 0.0408 | ns |
|  | LBTS2 - LBTS3 | 1.2923 | 0.0400 | ns | 2.2514 | 0.0677 | ns |
|  | LBTS2 - LBTS5 | 1.3128 | 0.0406 | ns | 2.2596 | 0.0679 | ns |
|  | LBTS2 - LBTS6 | -0.1831 | -0.0074 | ns | 0.4006 | 0.0158 | ns |
|  | LBTS2 - LBTS7 | 4.1983 | 0.1346 | 0.024 | 1.1901 | 0.0422 | ns |
|  | LBTS2 - LBTS8 | 1.7286 | 0.0602 | ns | 2.7479 | 0.0924 | ns |
|  | LBTS3 - LBTS5 | 4.0424 | 0.1122 | ns | 3.4057 | 0.0962 | ns |
|  | LBTS3 - LBTS6 | 0.8502 | 0.0317 | ns | 2.8916 | 0.1001 | ns |
|  | LBTS3 - LBTS7 | -1.2666 | -0.0474 | ns | 0.7291 | 0.0254 | ns |
|  | LBTS3 - LBTS8 | -0.8420 | -0.0310 | ns | 0.0030 | 0.0001 | ns |
|  | LBTS5 - LBTS6 | 1.8682 | 0.0670 | ns | 1.6225 | 0.0587 | ns |
|  | LBTS5 - LBTS7 | 9.9446 | 0.2621 | 0.002 | 5.7965 | 0.1715 | 0.012 |
|  | LBTS5 - LBTS8 | 3.3143 | 0.1058 | ns | 5.2285 | 0.1573 | 0.019 |
|  | LBTS6 - LBTS7 | 5.2461 | 0.1925 | 0.014 | 3.0434 | 0.1215 | ns |
|  | LBTS6 - LBTS8 | 0.9983 | 0.0434 | ns | 3.8206 | 0.1480 | 0.044 |
|  | LBTS7 - LBTS8 | -0.0741 | -0.0031 | ns | 0.6700 | 0.0272 | ns |
|  | SLR1 - SLR2 | 2.8334 | 0.1056 | ns | 0.2885 | 0.0119 | ns |
|  | SLR1 - SLR6 | 1.8620 | 0.0852 | ns | 0.8024 | 0.0386 | ns |
|  | SLR1 - SLR7 | 14.2766 | 0.4047 | 0.001 | 18.3189 | 0.4659 | 0.001 |
|  | SLR1 - SLR8 | 6.3013 | 0.2013 | 0.009 | 8.7107 | 0.2584 | 0.002 |
|  | SLR1 - SLR9 | 1.0101 | 0.0361 | ns | 0.1671 | 0.0062 | ns |
|  | SLR2 - SLR6 | 0.0566 | 0.0024 | ns | 0.4888 | 0.0200 | ns |
|  | SLR2 - SLR7 | 28.8262 | 0.5355 | 0.001 | 22.6300 | 0.4751 | 0.001 |
|  | SLR2 - SLR8 | 19.1321 | 0.3975 | 0.001 | 13.4252 | 0.3164 | 0.001 |
|  | SLR2 - SLR9 | 0.3242 | 0.0103 | ns | 0.3149 | 0.0101 | ns |
|  | SLR6 - SLR7 | 21.9787 | 0.5114 | 0.001 | 19.1605 | 0.4771 | 0.001 |
|  | SLR6 - SLR8 | 14.5524 | 0.3679 | 0.001 | 10.6552 | 0.2988 | 0.002 |
|  | SLR6 - SLR9 | -0.2302 | -0.0086 | ns | 0.2805 | 0.0103 | ns |
|  | SLR7 - SLR8 | 1.7986 | 0.0647 | ns | 2.0209 | 0.0721 | ns |
|  | SLR7 - SLR9 | 26.1073 | 0.4825 | 0.001 | 24.0158 | 0.4617 | 0.001 |
|  | SLR8 - SLR9 | 14.9975 | 0.3191 | 0.001 | 11.5837 | 0.2658 | 0.002 |
| Pairwise Face | Side 1 - Side 2 | NA | | | 2.9945 | 0.0252 | ns |
|  | Side 1 - Side 3 | 2.2108 | 0.0187 | ns |
|  | Side 1 - Side 4 | 1.0361 | 0.0086 | ns |
|  | Side 1 - Top | 6.9972 | 0.0489 | 0.007 |
|  | Side 2 - Side 3 | 0.0084 | 0.0001 | ns |
|  | Side 2 - Side 4 | 0.7471 | 0.0066 | ns |
|  | Side 2 - Top | 0.4502 | 0.0035 | ns |
|  | Side 3 - Side 4 | 0.5967 | 0.0053 | ns |
|  | Side 3 - Top | 1.1031 | 0.0084 | ns |
|  | Side 4 - Top | 3.1368 | 0.0230 | ns |