| Factor | Df | SumOfSqs | R2 | F | Pr(>F) |
| --- | --- | --- | --- | --- | --- |
| Activity of DNA virome-assembled vOTUs (Seedling) | | | | | |
| Rotation | 1 | 2.2164786 | 0.5051809 | 16.760629 | 0.001 |
| Compartment | 1 | 0.4518554 | 0.1029871 | 3.416852 | 0.029 |
| Residual | 13 | 1.7191612 | 0.3918320 |  |  |
| Total | 15 | 4.3874952 | 1.0000000 |  |  |
| Activity of DNA virome-assembled vOTUs (Stem extension) | | | | | |
| Rotation | 1 | 0.7667142 | 0.2566959 | 5.584217 | 0.001 |
| Compartment | 1 | 0.5725413 | 0.1916868 | 4.169996 | 0.001 |
| Residual | 12 | 1.6476026 | 0.5516173 |  |  |
| Total | 14 | 2.9868581 | 1.0000000 |  |  |
| Activity of DNA virome-assembled vOTUs (Pre-harvest) | | | | | |
| Rotation | 1 | 1.5638378 | 0.5084040 | 17.492804 | 0.001 |
| Compartment | 1 | 0.3499510 | 0.1137691 | 3.914488 | 0.030 |
| Residual | 13 | 1.1621860 | 0.3778269 |  |  |
| Total | 15 | 3.0759748 | 1.0000000 |  |  |
| Activity of total metagenome-assembled vOTUs (Seedling) | | | | | |
| Rotation | 1 | 1.5638378 | 0.5084040 | 17.492804 | 0.001 |
| Compartment | 1 | 0.3499510 | 0.1137691 | 3.914488 | 0.030 |
| Residual | 13 | 1.1621860 | 0.3778269 |  |  |
| Total | 15 | 3.0759748 | 1.0000000 |  |  |
| Activity of total metagenome-assembled vOTUs (Stem extension) | | | | | |
| Rotation | 1 | 1.2342202 | 0.2906295 | 7.202643 | 0.001 |
| Compartment | 1 | 0.9562137 | 0.2251656 | 5.580257 | 0.001 |
| Residual | 12 | 2.0562788 | 0.4842048 |  |  |
| Total | 14 | 4.2467127 | 1.0000000 |  |  |
| Activity of total metagenome-assembled vOTUs (Pre-harvest) | | | | | |
| Rotation | 1 | 1.9772452 | 0.4676988 | 15.689076 | 0.001 |
| Compartment | 1 | 0.6120089 | 0.1447650 | 4.856178 | 0.007 |
| Residual | 13 | 1.6383494 | 0.3875362 |  |  |
| Total | 15 | 4.2276034 | 1.0000000 |  |  |
| Activity of metatranscriptome-assembled vOTUs (Seedling) | | | | | |
| Rotation | 1 | 0.2585707 | 0.1860608 | 4.837212 | 0.002 |
| Compartment | 1 | 0.4362315 | 0.3139009 | 8.160800 | 0.001 |
| Residual | 13 | 0.6949084 | 0.5000382 |  |  |
| Total | 15 | 1.3897106 | 1.0000000 |  |  |
| Activity of metatranscriptome-assembled vOTUs (Stem extension) | | | | | |
| Rotation | 1 | 0.3708330 | 0.3719626 | 23.795321 | 0.001 |
| Compartment | 1 | 0.4391187 | 0.4404564 | 28.177028 | 0.001 |
| Residual | 12 | 0.1870114 | 0.1875810 |  |  |
| Total | 14 | 0.9969631 | 1.0000000 |  |  |
| Activity of metatranscriptome-assembled vOTUs (Pre-harvest) | | | | | |
| Rotation | 1 | 0.4899230 | 0.4201618 | 14.955394 | 0.001 |
| Compartment | 1 | 0.2502447 | 0.2146118 | 7.638972 | 0.001 |
| Residual | 13 | 0.4258663 | 0.3652263 |  |  |
| Total | 15 | 1.1660340 | 1.0000000 |  |  |