Supplementary material 2 –Unstandardized and standardized regression coefficients (with their respective standard errors) for the five specified models

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| NCDS Unstandardized Results | | | | | | | | | | | | | | | | | | | | |
|  | Model 0 | | | | Model l | | | | Model 2 | | | | Model 3 | | | | Model 4 | | | |
| Parameters/  Variables\* | Estimate | | S.E. | | Estimate | | S.E. | | Estimate | | S.E. | | Estimate | | S.E. | | Estimate | | S.E. | |
|  | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F |
| T1 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL2\_1 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL2\_2 | 1.861 | 1.195 | 0.325 | 0.133 | 1.835 | 1.148 | 0.315 | 0.129 | 1.994 | 1.176 | 0.335 | 0.135 | 1.273 | 1.273 | 0.125 | 0.125 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL2\_3 | 1.548 | 1.140 | 0.214 | 0.125 | 1.491 | 1.012 | 0.211 | 0.111 | 1.519 | 1.010 | 0.209 | 0.110 | 1.063 | 1.063 | 0.098 | 0.098 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL2\_4 | 1.503 | 1.226 | 0.215 | 0.124 | 1.445 | 1.121 | 0.211 | 0.118 | 1.404 | 1.117 | 0.195 | 0.115 | 1.164 | 1.164 | 0.103 | 0.103 | 1.000 | 1.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T2 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL3\_1 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL3\_2 | 1.581 | 1.316 | 0.290 | 0.156 | 1.569 | 1.282 | 0.293 | 0.161 | 1.768 | 1.327 | 0.303 | 0.146 | 1.345 | 1.345 | 0.127 | 0.127 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL3\_3 | 1.328 | 1.178 | 0.209 | 0.140 | 1.266 | 1.036 | 0.194 | 0.114 | 1.267 | 1.048 | 0.167 | 0.099 | 1.032 | 1.032 | 0.086 | 0.086 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL3\_4 | 1.267 | 1.374 | 0.192 | 0.164 | 1.215 | 1.254 | 0.184 | 0.150 | 1.271 | 1.316 | 0.175 | 0.129 | 1.246 | 1.246 | 0.105 | 0.105 | 1.000 | 1.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T3 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL5\_1 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL5\_2 | 1.494 | 1.904 | 0.180 | 0.215 | 1.488 | 1.855 | 0.182 | 0.216 | 1.649 | 1.799 | 0.206 | 0.180 | 1.572 | 1.572 | 0.125 | 0.125 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL5\_3 | 1.379 | 1.566 | 0.180 | 0.163 | 1.333 | 1.391 | 0.171 | 0.132 | 1.254 | 1.336 | 0.134 | 0.113 | 1.176 | 1.176 | 0.083 | 0.083 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL5\_4 | 1.997 | 1.853 | 0.292 | 0.210 | 1.923 | 1.700 | 0.272 | 0.188 | 1.643 | 1.553 | 0.180 | 0.135 | 1.494 | 1.494 | 0.106 | 0.106 | 1.000 | 1.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T4 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL9\_1 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL9\_2 | 1.499 | 1.838 | 0.423 | 0.412 | 1.491 | 1.764 | 0.428 | 0.410 | 1.471 | 1.856 | 0.339 | 0.393 | 1.554 | 1.554 | 0.253 | 0.253 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL9\_3 | 1.652 | 1.364 | 0.453 | 0.252 | 1.580 | 1.193 | 0.425 | 0.222 | 1.526 | 1.243 | 0.343 | 0.216 | 1.250 | 1.250 | 0.180 | 0.180 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL9\_4 | 0.878 | 1.086 | 0.224 | 0.231 | 0.847 | 0.989 | 0.220 | 0.214 | 0.870 | 1.088 | 0.210 | 0.225 | 0.924 | 0.924 | 0.153 | 0.153 | 1.000 | 1.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T5 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL12\_1 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL12\_2 | 1.564 | 1.819 | 0.462 | 0.269 | 1.559 | 1.774 | 0.468 | 0.272 | 1.531 | 1.848 | 0.359 | 0.270 | 1.590 | 1.590 | 0.204 | 0.204 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL12\_3 | 1.534 | 1.484 | 0.341 | 0.196 | 1.478 | 1.328 | 0.330 | 0.174 | 1.519 | 1.324 | 0.288 | 0.164 | 1.258 | 1.258 | 0.137 | 0.137 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL12\_4 | 1.332 | 1.696 | 0.301 | 0.234 | 1.286 | 1.557 | 0.288 | 0.216 | 1.333 | 1.530 | 0.251 | 0.189 | 1.411 | 1.411 | 0.155 | 0.155 | 1.000 | 1.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T6 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL14\_1 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL14\_2 | 1.433 | 1.807 | 0.219 | 0.217 | 1.420 | 1.754 | 0.218 | 0.216 | 1.539 | 1.802 | 0.219 | 0.203 | 1.557 | 1.557 | 0.140 | 0.140 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL14\_3 | 1.580 | 1.399 | 0.231 | 0.150 | 1.522 | 1.235 | 0.220 | 0.121 | 1.525 | 1.225 | 0.198 | 0.109 | 1.200 | 1.200 | 0.094 | 0.094 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL14\_4 | 1.843 | 1.940 | 0.283 | 0.265 | 1.768 | 1.733 | 0.275 | 0.223 | 1.634 | 1.473 | 0.212 | 0.137 | 1.437 | 1.437 | 0.114 | 0.114 | 1.000 | 1.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T7 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL16\_1 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL16\_2 | 1.631 | 1.575 | 0.416 | 0.406 | 1.634 | 1.546 | 0.434 | 0.429 | 1.756 | 1.311 | 0.381 | 0.230 | 1.319 | 1.319 | 0.194 | 0.194 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL16\_3 | 2.020 | 1.386 | 0.562 | 0.296 | 1.958 | 1.181 | 0.552 | 0.244 | 1.712 | 1.042 | 0.351 | 0.162 | 1.116 | 1.116 | 0.152 | 0.152 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL19\_4 | 2.395 | 1.560 | 0.759 | 0.327 | 2.340 | 1.376 | 0.770 | 0.284 | 1.649 | 1.262 | 0.324 | 0.185 | 1.318 | 1.318 | 0.170 | 0.170 | 1.000 | 1.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T8 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL20\_1 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL20\_2 | 0.881 | 1.844 | 0.319 | 0.397 | 0.869 | 1.758 | 0.324 | 0.374 | 1.036 | 1.795 | 0.298 | 0.340 | 1.416 | 1.416 | 0.230 | 0.230 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL20\_3 | 0.992 | 1.812 | 0.326 | 0.393 | 0.949 | 1.534 | 0.320 | 0.316 | 1.076 | 1.186 | 0.260 | 0.199 | 1.082 | 1.082 | 0.159 | 0.159 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL20\_4 | 0.871 | 1.940 | 0.278 | 0.365 | 0.833 | 1.757 | 0.274 | 0.324 | 0.913 | 1.495 | 0.212 | 0.229 | 1.242 | 1.242 | 0.168 | 0.168 | 1.000 | 1.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T9 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL21\_1 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL21\_2 | 1.948 | 2.257 | 0.499 | 0.436 | 1.930 | 2.202 | 0.498 | 0.443 | 1.923 | 2.007 | 0.430 | 0.332 | 1.836 | 1.836 | 0.244 | 0.244 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL21\_3 | 1.942 | 1.678 | 0.419 | 0.255 | 1.872 | 1.494 | 0.406 | 0.223 | 1.860 | 1.474 | 0.375 | 0.205 | 1.534 | 1.534 | 0.182 | 0.182 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL21\_4 | 1.507 | 1.503 | 0.294 | 0.228 | 1.455 | 1.380 | 0.288 | 0.211 | 1.475 | 1.394 | 0.276 | 0.199 | 1.418 | 1.418 | 0.170 | 0.170 | 1.000 | 1.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O1 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL2\_1 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL3\_1 | 1.710 | 1.962 | 0.356 | 0.285 | 1.663 | 2.001 | 0.352 | 0.313 | 1.678 | 2.026 | 0.159 | 0.154 | 1.844 | 1.844 | 0.109 | 0.109 | 1.558 | 1.558 | 0.082 | 0.082 |
| MAL5\_1 | 1.197 | 1.337 | 0.239 | 0.200 | 1.142 | 1.343 | 0.231 | 0.216 | 1.477 | 1.630 | 0.145 | 0.131 | 1.603 | 1.603 | 0.100 | 0.100 | 1.562 | 1.562 | 0.094 | 0.094 |
| MAL9\_1 | 1.317 | 1.527 | 0.329 | 0.253 | 1.262 | 1.574 | 0.316 | 0.280 | 0.852 | 1.153 | 0.114 | 0.123 | 1.012 | 1.012 | 0.084 | 0.084 | 0.720 | 0.720 | 0.060 | 0.060 |
| MAL12\_1 | 1.496 | 1.272 | 0.361 | 0.194 | 1.433 | 1.309 | 0.351 | 0.215 | 1.378 | 1.364 | 0.166 | 0.120 | 1.366 | 1.366 | 0.098 | 0.098 | 1.136 | 1.136 | 0.075 | 0.075 |
| MAL14\_1 | 1.320 | 1.504 | 0.264 | 0.207 | 1.270 | 1.519 | 0.257 | 0.226 | 1.374 | 1.794 | 0.129 | 0.135 | 1.639 | 1.639 | 0.096 | 0.096 | 1.453 | 1.453 | 0.079 | 0.079 |
| MAL16\_1 | 1.521 | 2.148 | 0.357 | 0.400 | 1.491 | 2.193 | 0.361 | 0.439 | 2.069 | 2.777 | 0.267 | 0.302 | 2.448 | 2.448 | 0.203 | 0.203 | 1.827 | 1.827 | 0.130 | 0.130 |
| MAL20\_1 | 2.007 | 1.709 | 0.656 | 0.309 | 1.961 | 1.695 | 0.649 | 0.325 | 1.753 | 2.471 | 0.232 | 0.258 | 2.147 | 2.147 | 0.175 | 0.175 | 1.883 | 1.883 | 0.147 | 0.147 |
| MAL21\_1 | 1.206 | 1.219 | 0.253 | 0.197 | 1.173 | 1.242 | 0.252 | 0.216 | 0.936 | 1.193 | 0.111 | 0.106 | 1.084 | 1.084 | 0.077 | 0.077 | 0.908 | 0.908 | 0.059 | 0.059 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O2 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL2\_2 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL3\_2 | 1.431 | 2.073 | 0.333 | 0.362 | 1.499 | 2.337 | 0.342 | 0.435 | 1.678 | 2.026 | 0.159 | 0.154 | 1.844 | 1.844 | 0.109 | 0.109 | 1.558 | 1.558 | 0.082 | 0.082 |
| MAL5\_2 | 1.055 | 1.830 | 0.230 | 0.362 | 1.083 | 1.932 | 0.239 | 0.402 | 1.477 | 1.630 | 0.145 | 0.131 | 1.603 | 1.603 | 0.100 | 0.100 | 1.562 | 1.562 | 0.094 | 0.094 |
| MAL9\_2 | 1.542 | 1.411 | 0.444 | 0.340 | 1.587 | 1.484 | 0.450 | 0.383 | 0.852 | 1.153 | 0.114 | 0.123 | 1.012 | 1.012 | 0.084 | 0.084 | 0.720 | 0.720 | 0.060 | 0.060 |
| MAL12\_2 | 1.834 | 1.398 | 0.565 | 0.295 | 1.913 | 1.484 | 0.591 | 0.335 | 1.378 | 1.364 | 0.166 | 0.120 | 1.366 | 1.366 | 0.098 | 0.098 | 1.136 | 1.136 | 0.075 | 0.075 |
| MAL14\_2 | 1.295 | 1.772 | 0.287 | 0.326 | 1.327 | 1.823 | 0.294 | 0.352 | 1.374 | 1.794 | 0.129 | 0.135 | 1.639 | 1.639 | 0.096 | 0.096 | 1.453 | 1.453 | 0.079 | 0.079 |
| MAL16\_2 | 1.554 | 3.226 | 0.414 | 0.865 | 1.676 | 3.676 | 0.444 | 1.097 | 2.069 | 2.777 | 0.267 | 0.302 | 2.448 | 2.448 | 0.203 | 0.203 | 1.827 | 1.827 | 0.130 | 0.130 |
| MAL20\_2 | 1.794 | 2.126 | 0.530 | 0.512 | 1.881 | 2.112 | 0.546 | 0.522 | 1.753 | 2.471 | 0.232 | 0.258 | 2.147 | 2.147 | 0.175 | 0.175 | 1.883 | 1.883 | 0.147 | 0.147 |
| MAL21\_2 | 1.511 | 1.969 | 0.394 | 0.456 | 1.567 | 2.105 | 0.410 | 0.521 | 0.936 | 1.193 | 0.111 | 0.106 | 1.084 | 1.084 | 0.077 | 0.077 | 0.908 | 0.908 | 0.059 | 0.059 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O3 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL2\_3 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL3\_3 | 2.112 | 1.923 | 0.381 | 0.294 | 2.055 | 1.927 | 0.355 | 0.263 | 1.678 | 2.026 | 0.159 | 0.154 | 1.844 | 1.844 | 0.109 | 0.109 | 1.558 | 1.558 | 0.082 | 0.082 |
| MAL5\_3 | 1.836 | 1.571 | 0.318 | 0.276 | 1.804 | 1.541 | 0.299 | 0.236 | 1.477 | 1.630 | 0.145 | 0.131 | 1.603 | 1.603 | 0.100 | 0.100 | 1.562 | 1.562 | 0.094 | 0.094 |
| MAL9\_3 | 1.167 | 0.968 | 0.302 | 0.230 | 1.152 | 0.970 | 0.290 | 0.201 | 0.852 | 1.153 | 0.114 | 0.123 | 1.012 | 1.012 | 0.084 | 0.084 | 0.720 | 0.720 | 0.060 | 0.060 |
| MAL12\_3 | 1.483 | 1.183 | 0.342 | 0.230 | 1.489 | 1.189 | 0.335 | 0.202 | 1.378 | 1.364 | 0.166 | 0.120 | 1.366 | 1.366 | 0.098 | 0.098 | 1.136 | 1.136 | 0.075 | 0.075 |
| MAL14\_3 | 1.540 | 1.529 | 0.250 | 0.254 | 1.527 | 1.487 | 0.241 | 0.218 | 1.374 | 1.794 | 0.129 | 0.135 | 1.639 | 1.639 | 0.096 | 0.096 | 1.453 | 1.453 | 0.079 | 0.079 |
| MAL16\_3 | 2.310 | 2.772 | 0.572 | 0.596 | 2.343 | 2.723 | 0.578 | 0.533 | 2.069 | 2.777 | 0.267 | 0.302 | 2.448 | 2.448 | 0.203 | 0.203 | 1.827 | 1.827 | 0.130 | 0.130 |
| MAL20\_3 | 1.830 | 3.208 | 0.401 | 0.721 | 1.825 | 2.958 | 0.394 | 0.595 | 1.753 | 2.471 | 0.232 | 0.258 | 2.147 | 2.147 | 0.175 | 0.175 | 1.883 | 1.883 | 0.147 | 0.147 |
| MAL21\_3 | 0.875 | 1.064 | 0.199 | 0.214 | 0.880 | 1.110 | 0.195 | 0.191 | 0.936 | 1.193 | 0.111 | 0.106 | 1.084 | 1.084 | 0.077 | 0.077 | 0.908 | 0.908 | 0.059 | 0.059 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O4 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL2\_4 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL3\_4 | 1.453 | 1.964 | 0.202 | 0.222 | 1.466 | 1.959 | 0.201 | 0.215 | 1.678 | 2.026 | 0.159 | 0.154 | 1.844 | 1.844 | 0.109 | 0.109 | 1.558 | 1.558 | 0.082 | 0.082 |
| MAL5\_4 | 1.606 | 1.840 | 0.271 | 0.233 | 1.616 | 1.822 | 0.268 | 0.223 | 1.477 | 1.630 | 0.145 | 0.131 | 1.603 | 1.603 | 0.100 | 0.100 | 1.562 | 1.562 | 0.094 | 0.094 |
| MAL9\_4 | 0.533 | 0.936 | 0.120 | 0.173 | 0.541 | 0.903 | 0.120 | 0.161 | 0.852 | 1.153 | 0.114 | 0.123 | 1.012 | 1.012 | 0.084 | 0.084 | 0.720 | 0.720 | 0.060 | 0.060 |
| MAL12\_4 | 1.215 | 1.430 | 0.215 | 0.195 | 1.224 | 1.422 | 0.213 | 0.188 | 1.378 | 1.364 | 0.166 | 0.120 | 1.366 | 1.366 | 0.098 | 0.098 | 1.136 | 1.136 | 0.075 | 0.075 |
| MAL14\_4 | 1.387 | 2.313 | 0.219 | 0.315 | 1.392 | 2.217 | 0.214 | 0.286 | 1.374 | 1.794 | 0.129 | 0.135 | 1.639 | 1.639 | 0.096 | 0.096 | 1.453 | 1.453 | 0.079 | 0.079 |
| MAL19\_4 | 2.529 | 2.894 | 0.704 | 0.516 | 2.609 | 2.789 | 0.741 | 0.471 | 2.069 | 2.777 | 0.267 | 0.302 | 2.448 | 2.448 | 0.203 | 0.203 | 1.827 | 1.827 | 0.130 | 0.130 |
| MAL20\_4 | 1.642 | 2.717 | 0.299 | 0.428 | 1.655 | 2.649 | 0.298 | 0.399 | 1.753 | 2.471 | 0.232 | 0.258 | 2.147 | 2.147 | 0.175 | 0.175 | 1.883 | 1.883 | 0.147 | 0.147 |
| MAL21\_4 | 0.742 | 1.144 | 0.139 | 0.153 | 0.750 | 1.138 | 0.139 | 0.147 | 0.936 | 1.193 | 0.111 | 0.106 | 1.084 | 1.084 | 0.077 | 0.077 | 0.908 | 0.908 | 0.059 | 0.059 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O4 ON |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O3 | 0.669 | 0.320 | 0.112 | 0.106 | 0.676 | 0.428 | 0.109 | 0.080 | 0.578 | 0.478 | 0.057 | 0.064 | 0.607 | 0.607 | 0.043 | 0.043 | 0.687 | 0.687 | 0.030 | 0.030 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O3 ON |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O2 | 0.180 | -0.077 | 0.105 | 0.131 | 0.200 | 0.068 | 0.100 | 0.084 | 0.114 | 0.036 | 0.124 | 0.090 | 0.210 | 0.210 | 0.072 | 0.072 | 0.493 | 0.493 | 0.046 | 0.046 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O2 ON |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O1 | 0.262 | 0.148 | 0.157 | 0.081 | 0.200 | 0.068 | 0.100 | 0.084 | 0.114 | 0.036 | 0.124 | 0.090 | 0.210 | 0.210 | 0.072 | 0.072 | 0.493 | 0.493 | 0.046 | 0.046 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O1 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| O2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| O3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| O4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O2 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| O3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| O4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O3 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| O4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O4 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T2 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.586 | 0.829 | 0.101 | 0.099 | 0.613 | 0.927 | 0.102 | 0.112 | 0.607 | 0.908 | 0.100 | 0.104 | 0.832 | 0.822 | 0.099 | 0.084 | 0.740 | 1.042 | 0.064 | 0.100 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T3 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.486 | 0.500 | 0.066 | 0.053 | 0.504 | 0.548 | 0.067 | 0.059 | 0.535 | 0.568 | 0.074 | 0.061 | 0.685 | 0.554 | 0.071 | 0.053 | 0.696 | 0.812 | 0.058 | 0.098 |
| T2 | 0.910 | 0.881 | 0.130 | 0.097 | 0.947 | 0.977 | 0.132 | 0.107 | 0.994 | 0.992 | 0.137 | 0.101 | 1.145 | 0.996 | 0.114 | 0.090 | 1.129 | 1.568 | 0.082 | 0.153 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T4 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.332 | 0.380 | 0.078 | 0.064 | 0.347 | 0.425 | 0.080 | 0.074 | 0.335 | 0.404 | 0.071 | 0.065 | 0.410 | 0.384 | 0.077 | 0.058 | 0.422 | 0.480 | 0.064 | 0.073 |
| T2 | 0.698 | 0.680 | 0.157 | 0.112 | 0.731 | 0.764 | 0.163 | 0.129 | 0.694 | 0.713 | 0.140 | 0.109 | 0.786 | 0.701 | 0.124 | 0.100 | 0.787 | 0.925 | 0.083 | 0.114 |
| T3 | 0.578 | 0.412 | 0.116 | 0.065 | 0.601 | 0.458 | 0.121 | 0.074 | 0.605 | 0.452 | 0.112 | 0.067 | 0.642 | 0.477 | 0.097 | 0.066 | 0.729 | 0.743 | 0.080 | 0.105 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T5 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.477 | 0.385 | 0.100 | 0.051 | 0.496 | 0.425 | 0.103 | 0.057 | 0.487 | 0.426 | 0.093 | 0.056 | 0.589 | 0.410 | 0.088 | 0.052 | 0.547 | 0.585 | 0.068 | 0.084 |
| T2 | 0.980 | 0.713 | 0.222 | 0.090 | 1.023 | 0.791 | 0.230 | 0.102 | 0.987 | 0.776 | 0.202 | 0.093 | 1.089 | 0.770 | 0.161 | 0.087 | 1.000 | 1.177 | 0.104 | 0.130 |
| T3 | 1.020 | 0.594 | 0.189 | 0.067 | 1.057 | 0.654 | 0.196 | 0.074 | 1.080 | 0.678 | 0.187 | 0.074 | 1.115 | 0.744 | 0.135 | 0.076 | 1.189 | 1.468 | 0.098 | 0.136 |
| T4 | 0.750 | 0.429 | 0.185 | 0.075 | 0.779 | 0.477 | 0.192 | 0.086 | 0.713 | 0.453 | 0.155 | 0.075 | 0.719 | 0.483 | 0.126 | 0.076 | 0.755 | 0.774 | 0.094 | 0.104 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T6 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.376 | 0.501 | 0.060 | 0.058 | 0.391 | 0.552 | 0.062 | 0.065 | 0.401 | 0.573 | 0.062 | 0.066 | 0.546 | 0.525 | 0.067 | 0.055 | 0.513 | 0.743 | 0.057 | 0.092 |
| T2 | 0.688 | 0.889 | 0.116 | 0.104 | 0.718 | 0.988 | 0.120 | 0.116 | 0.728 | 1.004 | 0.114 | 0.108 | 0.889 | 0.949 | 0.106 | 0.093 | 0.819 | 1.429 | 0.081 | 0.144 |
| T3 | 0.741 | 0.722 | 0.096 | 0.073 | 0.768 | 0.796 | 0.099 | 0.080 | 0.824 | 0.856 | 0.107 | 0.083 | 0.967 | 0.888 | 0.094 | 0.077 | 1.045 | 1.736 | 0.079 | 0.156 |
| T4 | 0.822 | 0.640 | 0.162 | 0.100 | 0.857 | 0.714 | 0.171 | 0.114 | 0.816 | 0.700 | 0.150 | 0.104 | 0.958 | 0.714 | 0.133 | 0.096 | 1.059 | 1.169 | 0.084 | 0.118 |
| T5 | 0.833 | 0.606 | 0.178 | 0.073 | 0.866 | 0.667 | 0.187 | 0.081 | 0.854 | 0.693 | 0.167 | 0.080 | 0.952 | 0.714 | 0.135 | 0.078 | 0.960 | 1.355 | 0.099 | 0.131 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T7 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.428 | 0.704 | 0.094 | 0.116 | 0.447 | 0.788 | 0.098 | 0.135 | 0.508 | 0.865 | 0.109 | 0.139 | 0.820 | 0.699 | 0.143 | 0.100 | 0.713 | 0.710 | 0.098 | 0.115 |
| T2 | 0.760 | 1.217 | 0.183 | 0.207 | 0.798 | 1.368 | 0.192 | 0.240 | 0.896 | 1.473 | 0.204 | 0.237 | 1.296 | 1.227 | 0.232 | 0.173 | 1.118 | 1.354 | 0.145 | 0.182 |
| T3 | 0.747 | 0.885 | 0.150 | 0.138 | 0.779 | 0.987 | 0.158 | 0.159 | 0.931 | 1.127 | 0.185 | 0.170 | 1.279 | 1.019 | 0.196 | 0.133 | 1.240 | 1.419 | 0.136 | 0.182 |
| T4 | 0.675 | 0.676 | 0.181 | 0.141 | 0.708 | 0.764 | 0.191 | 0.165 | 0.745 | 0.792 | 0.186 | 0.157 | 1.015 | 0.711 | 0.205 | 0.129 | 1.015 | 0.857 | 0.134 | 0.133 |
| T5 | 1.054 | 0.824 | 0.283 | 0.139 | 1.104 | 0.921 | 0.298 | 0.160 | 1.201 | 1.009 | 0.303 | 0.165 | 1.601 | 0.916 | 0.299 | 0.135 | 1.476 | 1.300 | 0.183 | 0.162 |
| T6 | 0.757 | 0.978 | 0.158 | 0.158 | 0.792 | 1.095 | 0.168 | 0.183 | 0.906 | 1.248 | 0.187 | 0.194 | 1.342 | 1.076 | 0.212 | 0.146 | 1.261 | 1.474 | 0.137 | 0.176 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T8 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.905 | 0.663 | 0.293 | 0.112 | 0.953 | 0.732 | 0.316 | 0.126 | 0.868 | 0.833 | 0.218 | 0.145 | 0.971 | 0.807 | 0.164 | 0.125 | 0.863 | 0.992 | 0.101 | 0.132 |
| T2 | 1.386 | 0.973 | 0.457 | 0.168 | 1.461 | 1.074 | 0.493 | 0.187 | 1.324 | 1.198 | 0.341 | 0.204 | 1.317 | 1.183 | 0.233 | 0.180 | 1.126 | 1.444 | 0.141 | 0.189 |
| T3 | 1.283 | 0.605 | 0.382 | 0.096 | 1.344 | 0.657 | 0.412 | 0.106 | 1.301 | 0.779 | 0.299 | 0.125 | 1.219 | 0.824 | 0.186 | 0.119 | 1.180 | 1.161 | 0.125 | 0.182 |
| T4 | 1.361 | 0.685 | 0.443 | 0.148 | 1.433 | 0.765 | 0.477 | 0.168 | 1.236 | 0.818 | 0.314 | 0.175 | 1.151 | 0.878 | 0.216 | 0.170 | 1.170 | 1.228 | 0.142 | 0.177 |
| T5 | 1.692 | 0.599 | 0.608 | 0.103 | 1.778 | 0.655 | 0.657 | 0.114 | 1.571 | 0.747 | 0.446 | 0.130 | 1.421 | 0.796 | 0.273 | 0.127 | 1.313 | 1.217 | 0.169 | 0.173 |
| T6 | 1.411 | 0.837 | 0.456 | 0.136 | 1.483 | 0.921 | 0.496 | 0.151 | 1.367 | 1.093 | 0.342 | 0.180 | 1.389 | 1.123 | 0.226 | 0.165 | 1.309 | 1.739 | 0.136 | 0.195 |
| T7 | 1.571 | 1.059 | 0.574 | 0.223 | 1.660 | 1.181 | 0.625 | 0.255 | 1.705 | 1.481 | 0.509 | 0.307 | 2.057 | 1.340 | 0.440 | 0.246 | 1.799 | 1.444 | 0.234 | 0.225 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T9 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.362 | 0.431 | 0.069 | 0.062 | 0.378 | 0.477 | 0.071 | 0.069 | 0.370 | 0.473 | 0.067 | 0.067 | 0.490 | 0.429 | 0.067 | 0.055 | 0.593 | 0.643 | 0.057 | 0.075 |
| T2 | 0.548 | 0.649 | 0.116 | 0.097 | 0.572 | 0.721 | 0.119 | 0.108 | 0.559 | 0.706 | 0.107 | 0.098 | 0.662 | 0.651 | 0.094 | 0.083 | 0.762 | 0.972 | 0.076 | 0.109 |
| T3 | 0.484 | 0.439 | 0.088 | 0.061 | 0.503 | 0.482 | 0.090 | 0.068 | 0.520 | 0.498 | 0.090 | 0.067 | 0.580 | 0.498 | 0.075 | 0.061 | 0.777 | 0.914 | 0.072 | 0.107 |
| T4 | 0.507 | 0.387 | 0.118 | 0.076 | 0.528 | 0.432 | 0.123 | 0.086 | 0.490 | 0.409 | 0.103 | 0.075 | 0.545 | 0.404 | 0.093 | 0.069 | 0.714 | 0.644 | 0.083 | 0.094 |
| T5 | 0.798 | 0.553 | 0.198 | 0.084 | 0.832 | 0.615 | 0.206 | 0.093 | 0.794 | 0.612 | 0.180 | 0.088 | 0.850 | 0.625 | 0.132 | 0.083 | 1.064 | 1.245 | 0.100 | 0.109 |
| T6 | 0.378 | 0.485 | 0.078 | 0.069 | 0.394 | 0.534 | 0.081 | 0.076 | 0.398 | 0.551 | 0.075 | 0.075 | 0.473 | 0.522 | 0.071 | 0.066 | 0.595 | 0.936 | 0.070 | 0.109 |
| T7 | 0.564 | 0.762 | 0.143 | 0.150 | 0.591 | 0.855 | 0.150 | 0.172 | 0.648 | 0.938 | 0.156 | 0.176 | 0.923 | 0.795 | 0.172 | 0.131 | 1.081 | 1.119 | 0.133 | 0.144 |
| T8 | 0.840 | 0.517 | 0.283 | 0.102 | 0.882 | 0.566 | 0.303 | 0.112 | 0.785 | 0.640 | 0.205 | 0.124 | 0.753 | 0.635 | 0.145 | 0.112 | 0.880 | 0.924 | 0.122 | 0.143 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NCDS Standardized Results | | | | | | | | | | | | | | | | | | | | |
|  | Model 0 | | | | Model 1 | | | | Model 2 | | | | Model 3 | | | | Model 4 | | | |
| Parameters/  Variables\* | Estimate | | S.E. | | Estimate | | S.E. | | Estimate | | S.E. | | Estimate | | S.E. | | Estimate | | S.E. | |
|  | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F |
| T1 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL2\_1 | 0.586 | 0.627 | 0.038 | 0.027 | 0.592 | 0.651 | 0.037 | 0.028 | 0.595 | 0.657 | 0.038 | 0.028 | 0.683 | 0.638 | 0.026 | 0.025 | 0.665 | 0.705 | 0.016 | 0.015 |
| MAL2\_2 | 0.776 | 0.696 | 0.037 | 0.028 | 0.783 | 0.705 | 0.039 | 0.030 | 0.809 | 0.707 | 0.038 | 0.031 | 0.729 | 0.708 | 0.027 | 0.027 | 0.629 | 0.675 | 0.017 | 0.015 |
| MAL2\_3 | 0.725 | 0.681 | 0.031 | 0.027 | 0.718 | 0.650 | 0.031 | 0.025 | 0.713 | 0.654 | 0.031 | 0.025 | 0.661 | 0.653 | 0.023 | 0.023 | 0.595 | 0.670 | 0.016 | 0.015 |
| MAL2\_4 | 0.666 | 0.672 | 0.030 | 0.024 | 0.660 | 0.654 | 0.031 | 0.025 | 0.660 | 0.649 | 0.031 | 0.025 | 0.670 | 0.642 | 0.022 | 0.022 | 0.581 | 0.619 | 0.015 | 0.015 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T2 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL3\_1 | 0.619 | 0.645 | 0.040 | 0.027 | 0.629 | 0.672 | 0.038 | 0.026 | 0.634 | 0.677 | 0.037 | 0.025 | 0.686 | 0.665 | 0.026 | 0.024 | 0.686 | 0.692 | 0.024 | 0.021 |
| MAL3\_2 | 0.760 | 0.741 | 0.045 | 0.032 | 0.764 | 0.741 | 0.045 | 0.035 | 0.785 | 0.752 | 0.047 | 0.035 | 0.709 | 0.730 | 0.035 | 0.031 | 0.616 | 0.645 | 0.024 | 0.021 |
| MAL3\_3 | 0.631 | 0.719 | 0.042 | 0.031 | 0.625 | 0.678 | 0.040 | 0.023 | 0.653 | 0.677 | 0.035 | 0.024 | 0.603 | 0.659 | 0.029 | 0.027 | 0.559 | 0.637 | 0.020 | 0.021 |
| MAL3\_4 | 0.623 | 0.694 | 0.034 | 0.024 | 0.615 | 0.675 | 0.034 | 0.024 | 0.612 | 0.669 | 0.033 | 0.024 | 0.630 | 0.640 | 0.025 | 0.022 | 0.538 | 0.565 | 0.020 | 0.019 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T3 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL5\_1 | 0.657 | 0.612 | 0.028 | 0.023 | 0.666 | 0.636 | 0.027 | 0.022 | 0.660 | 0.634 | 0.027 | 0.022 | 0.689 | 0.648 | 0.020 | 0.020 | 0.729 | 0.752 | 0.018 | 0.017 |
| MAL5\_2 | 0.774 | 0.799 | 0.033 | 0.025 | 0.780 | 0.806 | 0.032 | 0.027 | 0.789 | 0.814 | 0.038 | 0.027 | 0.773 | 0.771 | 0.026 | 0.024 | 0.662 | 0.709 | 0.018 | 0.017 |
| MAL5\_3 | 0.665 | 0.761 | 0.033 | 0.025 | 0.659 | 0.728 | 0.032 | 0.020 | 0.683 | 0.726 | 0.029 | 0.020 | 0.668 | 0.692 | 0.022 | 0.021 | 0.606 | 0.701 | 0.016 | 0.017 |
| MAL5\_4 | 0.749 | 0.728 | 0.025 | 0.021 | 0.741 | 0.710 | 0.024 | 0.021 | 0.742 | 0.707 | 0.023 | 0.020 | 0.716 | 0.702 | 0.018 | 0.017 | 0.585 | 0.632 | 0.015 | 0.015 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T4 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL9\_1 | 0.664 | 0.584 | 0.054 | 0.042 | 0.674 | 0.610 | 0.053 | 0.043 | 0.677 | 0.632 | 0.053 | 0.044 | 0.694 | 0.646 | 0.040 | 0.040 | 0.712 | 0.723 | 0.020 | 0.018 |
| MAL9\_2 | 0.733 | 0.810 | 0.058 | 0.042 | 0.740 | 0.816 | 0.057 | 0.044 | 0.788 | 0.826 | 0.052 | 0.044 | 0.801 | 0.780 | 0.042 | 0.037 | 0.692 | 0.704 | 0.020 | 0.019 |
| MAL9\_3 | 0.816 | 0.749 | 0.048 | 0.042 | 0.809 | 0.718 | 0.047 | 0.042 | 0.792 | 0.704 | 0.047 | 0.043 | 0.729 | 0.719 | 0.038 | 0.038 | 0.672 | 0.701 | 0.020 | 0.019 |
| MAL9\_4 | 0.650 | 0.638 | 0.065 | 0.062 | 0.644 | 0.626 | 0.066 | 0.063 | 0.572 | 0.602 | 0.066 | 0.065 | 0.593 | 0.560 | 0.050 | 0.054 | 0.664 | 0.667 | 0.020 | 0.021 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T5 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL12\_1 | 0.705 | 0.589 | 0.049 | 0.031 | 0.715 | 0.611 | 0.049 | 0.032 | 0.714 | 0.617 | 0.048 | 0.031 | 0.727 | 0.630 | 0.033 | 0.030 | 0.721 | 0.766 | 0.022 | 0.015 |
| MAL12\_2 | 0.765 | 0.794 | 0.055 | 0.034 | 0.770 | 0.801 | 0.055 | 0.036 | 0.814 | 0.811 | 0.052 | 0.035 | 0.818 | 0.765 | 0.035 | 0.034 | 0.679 | 0.735 | 0.023 | 0.016 |
| MAL12\_3 | 0.810 | 0.747 | 0.040 | 0.031 | 0.803 | 0.718 | 0.039 | 0.030 | 0.799 | 0.710 | 0.039 | 0.031 | 0.743 | 0.703 | 0.032 | 0.029 | 0.639 | 0.729 | 0.022 | 0.016 |
| MAL12\_4 | 0.744 | 0.721 | 0.041 | 0.030 | 0.738 | 0.704 | 0.040 | 0.030 | 0.728 | 0.701 | 0.039 | 0.030 | 0.750 | 0.679 | 0.030 | 0.028 | 0.624 | 0.675 | 0.022 | 0.017 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T6 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL14\_1 | 0.630 | 0.638 | 0.034 | 0.023 | 0.640 | 0.662 | 0.033 | 0.023 | 0.639 | 0.664 | 0.033 | 0.022 | 0.691 | 0.662 | 0.022 | 0.021 | 0.713 | 0.766 | 0.019 | 0.015 |
| MAL14\_2 | 0.718 | 0.819 | 0.040 | 0.026 | 0.725 | 0.827 | 0.040 | 0.026 | 0.754 | 0.833 | 0.042 | 0.028 | 0.771 | 0.779 | 0.030 | 0.025 | 0.652 | 0.727 | 0.021 | 0.015 |
| MAL14\_3 | 0.736 | 0.763 | 0.034 | 0.027 | 0.728 | 0.730 | 0.032 | 0.022 | 0.737 | 0.722 | 0.030 | 0.022 | 0.676 | 0.713 | 0.025 | 0.022 | 0.599 | 0.720 | 0.018 | 0.016 |
| MAL14\_4 | 0.742 | 0.728 | 0.029 | 0.023 | 0.734 | 0.708 | 0.028 | 0.022 | 0.728 | 0.708 | 0.028 | 0.022 | 0.702 | 0.701 | 0.021 | 0.019 | 0.579 | 0.655 | 0.018 | 0.015 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T7 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL16\_1 | 0.635 | 0.651 | 0.059 | 0.043 | 0.646 | 0.680 | 0.060 | 0.043 | 0.637 | 0.682 | 0.059 | 0.043 | 0.748 | 0.641 | 0.040 | 0.041 | 0.795 | 0.631 | 0.024 | 0.035 |
| MAL16\_2 | 0.752 | 0.732 | 0.057 | 0.048 | 0.756 | 0.729 | 0.057 | 0.052 | 0.777 | 0.746 | 0.058 | 0.050 | 0.743 | 0.689 | 0.047 | 0.048 | 0.722 | 0.577 | 0.025 | 0.034 |
| MAL16\_3 | 0.755 | 0.728 | 0.046 | 0.045 | 0.748 | 0.676 | 0.045 | 0.040 | 0.750 | 0.675 | 0.044 | 0.041 | 0.676 | 0.659 | 0.039 | 0.042 | 0.660 | 0.567 | 0.023 | 0.034 |
| MAL19\_4 | 0.698 | 0.659 | 0.040 | 0.035 | 0.691 | 0.638 | 0.040 | 0.035 | 0.694 | 0.632 | 0.040 | 0.035 | 0.687 | 0.612 | 0.034 | 0.033 | 0.637 | 0.491 | 0.023 | 0.029 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T8 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL20\_1 | 0.757 | 0.591 | 0.065 | 0.048 | 0.767 | 0.616 | 0.064 | 0.049 | 0.763 | 0.614 | 0.063 | 0.050 | 0.736 | 0.634 | 0.044 | 0.047 | 0.750 | 0.636 | 0.030 | 0.034 |
| MAL20\_2 | 0.674 | 0.779 | 0.067 | 0.044 | 0.678 | 0.787 | 0.066 | 0.046 | 0.728 | 0.790 | 0.062 | 0.048 | 0.763 | 0.713 | 0.043 | 0.047 | 0.668 | 0.581 | 0.030 | 0.034 |
| MAL20\_3 | 0.729 | 0.693 | 0.052 | 0.047 | 0.722 | 0.643 | 0.051 | 0.040 | 0.723 | 0.657 | 0.048 | 0.039 | 0.661 | 0.642 | 0.039 | 0.040 | 0.601 | 0.571 | 0.027 | 0.034 |
| MAL20\_4 | 0.627 | 0.659 | 0.047 | 0.033 | 0.620 | 0.635 | 0.047 | 0.032 | 0.621 | 0.637 | 0.045 | 0.032 | 0.665 | 0.593 | 0.035 | 0.031 | 0.577 | 0.494 | 0.026 | 0.029 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T9 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL21\_1 | 0.554 | 0.568 | 0.054 | 0.041 | 0.563 | 0.593 | 0.054 | 0.041 | 0.579 | 0.597 | 0.053 | 0.040 | 0.616 | 0.586 | 0.038 | 0.036 | 0.701 | 0.714 | 0.019 | 0.017 |
| MAL21\_2 | 0.718 | 0.798 | 0.053 | 0.036 | 0.723 | 0.805 | 0.053 | 0.038 | 0.788 | 0.822 | 0.050 | 0.035 | 0.785 | 0.781 | 0.034 | 0.032 | 0.672 | 0.688 | 0.019 | 0.017 |
| MAL21\_3 | 0.799 | 0.773 | 0.041 | 0.032 | 0.793 | 0.743 | 0.042 | 0.031 | 0.769 | 0.731 | 0.042 | 0.031 | 0.724 | 0.735 | 0.031 | 0.029 | 0.643 | 0.684 | 0.019 | 0.018 |
| MAL21\_4 | 0.700 | 0.690 | 0.043 | 0.032 | 0.694 | 0.675 | 0.044 | 0.032 | 0.667 | 0.660 | 0.046 | 0.032 | 0.669 | 0.658 | 0.034 | 0.029 | 0.631 | 0.638 | 0.019 | 0.018 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O1 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL2\_1 | 0.392 | 0.356 | 0.050 | 0.034 | 0.396 | 0.335 | 0.051 | 0.035 | 0.379 | 0.311 | 0.029 | 0.021 | 0.303 | 0.338 | 0.021 | 0.019 | 0.235 | 0.418 | 0.036 | 0.023 |
| MAL3\_1 | 0.540 | 0.543 | 0.048 | 0.032 | 0.532 | 0.520 | 0.047 | 0.034 | 0.517 | 0.497 | 0.034 | 0.025 | 0.468 | 0.500 | 0.028 | 0.024 | 0.333 | 0.542 | 0.051 | 0.027 |
| MAL5\_1 | 0.416 | 0.448 | 0.042 | 0.033 | 0.405 | 0.426 | 0.040 | 0.034 | 0.466 | 0.459 | 0.030 | 0.024 | 0.427 | 0.469 | 0.025 | 0.022 | 0.314 | 0.495 | 0.045 | 0.025 |
| MAL9\_1 | 0.441 | 0.501 | 0.062 | 0.042 | 0.429 | 0.485 | 0.061 | 0.044 | 0.305 | 0.358 | 0.039 | 0.031 | 0.301 | 0.338 | 0.029 | 0.028 | 0.163 | 0.321 | 0.027 | 0.026 |
| MAL12\_1 | 0.452 | 0.442 | 0.060 | 0.036 | 0.440 | 0.429 | 0.060 | 0.037 | 0.415 | 0.413 | 0.043 | 0.027 | 0.363 | 0.431 | 0.030 | 0.026 | 0.244 | 0.411 | 0.038 | 0.025 |
| MAL14\_1 | 0.458 | 0.471 | 0.043 | 0.030 | 0.448 | 0.449 | 0.043 | 0.031 | 0.455 | 0.471 | 0.030 | 0.022 | 0.432 | 0.468 | 0.025 | 0.022 | 0.304 | 0.467 | 0.045 | 0.024 |
| MAL16\_1 | 0.498 | 0.563 | 0.066 | 0.047 | 0.492 | 0.538 | 0.067 | 0.048 | 0.572 | 0.572 | 0.049 | 0.038 | 0.494 | 0.589 | 0.041 | 0.035 | 0.314 | 0.621 | 0.048 | 0.035 |
| MAL20\_1 | 0.486 | 0.532 | 0.075 | 0.050 | 0.476 | 0.505 | 0.072 | 0.052 | 0.442 | 0.588 | 0.055 | 0.038 | 0.473 | 0.560 | 0.040 | 0.036 | 0.350 | 0.624 | 0.054 | 0.035 |
| MAL21\_1 | 0.462 | 0.437 | 0.056 | 0.042 | 0.457 | 0.420 | 0.057 | 0.044 | 0.365 | 0.381 | 0.036 | 0.029 | 0.349 | 0.379 | 0.028 | 0.025 | 0.205 | 0.387 | 0.033 | 0.025 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O2 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL2\_2 | 0.378 | 0.316 | 0.055 | 0.042 | 0.364 | 0.299 | 0.054 | 0.046 | 0.336 | 0.326 | 0.047 | 0.035 | 0.396 | 0.369 | 0.031 | 0.029 | 0.393 | 0.493 | 0.027 | 0.021 |
| MAL3\_2 | 0.475 | 0.479 | 0.064 | 0.046 | 0.473 | 0.495 | 0.065 | 0.049 | 0.471 | 0.477 | 0.062 | 0.047 | 0.561 | 0.512 | 0.038 | 0.037 | 0.531 | 0.621 | 0.033 | 0.023 |
| MAL5\_2 | 0.392 | 0.402 | 0.056 | 0.045 | 0.385 | 0.396 | 0.057 | 0.049 | 0.440 | 0.375 | 0.058 | 0.042 | 0.476 | 0.446 | 0.036 | 0.034 | 0.506 | 0.574 | 0.030 | 0.022 |
| MAL9\_2 | 0.514 | 0.334 | 0.073 | 0.057 | 0.506 | 0.329 | 0.074 | 0.061 | 0.314 | 0.289 | 0.054 | 0.046 | 0.349 | 0.330 | 0.042 | 0.036 | 0.281 | 0.385 | 0.026 | 0.028 |
| MAL12\_2 | 0.520 | 0.344 | 0.072 | 0.053 | 0.516 | 0.340 | 0.073 | 0.057 | 0.403 | 0.337 | 0.064 | 0.043 | 0.400 | 0.413 | 0.044 | 0.038 | 0.407 | 0.484 | 0.031 | 0.024 |
| MAL14\_2 | 0.484 | 0.377 | 0.054 | 0.043 | 0.476 | 0.364 | 0.055 | 0.046 | 0.454 | 0.376 | 0.055 | 0.043 | 0.483 | 0.444 | 0.038 | 0.035 | 0.492 | 0.545 | 0.031 | 0.021 |
| MAL16\_2 | 0.499 | 0.576 | 0.074 | 0.060 | 0.504 | 0.591 | 0.076 | 0.064 | 0.517 | 0.547 | 0.071 | 0.057 | 0.580 | 0.603 | 0.051 | 0.047 | 0.506 | 0.698 | 0.034 | 0.028 |
| MAL20\_2 | 0.593 | 0.453 | 0.080 | 0.065 | 0.591 | 0.433 | 0.081 | 0.069 | 0.531 | 0.483 | 0.066 | 0.060 | 0.541 | 0.558 | 0.049 | 0.047 | 0.552 | 0.701 | 0.036 | 0.028 |
| MAL21\_2 | 0.521 | 0.419 | 0.061 | 0.054 | 0.517 | 0.416 | 0.062 | 0.057 | 0.337 | 0.299 | 0.052 | 0.042 | 0.378 | 0.346 | 0.037 | 0.034 | 0.348 | 0.458 | 0.027 | 0.025 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O3 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL2\_3 | 0.392 | 0.317 | 0.041 | 0.040 | 0.400 | 0.356 | 0.039 | 0.032 | 0.424 | 0.338 | 0.031 | 0.023 | 0.443 | 0.360 | 0.024 | 0.023 | 0.494 | 0.505 | 0.019 | 0.020 |
| MAL3\_3 | 0.640 | 0.471 | 0.046 | 0.044 | 0.642 | 0.526 | 0.044 | 0.031 | 0.596 | 0.523 | 0.035 | 0.025 | 0.641 | 0.531 | 0.025 | 0.029 | 0.640 | 0.634 | 0.019 | 0.022 |
| MAL5\_3 | 0.586 | 0.391 | 0.039 | 0.044 | 0.590 | 0.434 | 0.038 | 0.034 | 0.545 | 0.433 | 0.034 | 0.026 | 0.566 | 0.472 | 0.024 | 0.027 | 0.615 | 0.587 | 0.019 | 0.021 |
| MAL9\_3 | 0.363 | 0.279 | 0.062 | 0.058 | 0.370 | 0.318 | 0.060 | 0.051 | 0.332 | 0.354 | 0.044 | 0.035 | 0.407 | 0.333 | 0.034 | 0.031 | 0.362 | 0.396 | 0.025 | 0.028 |
| MAL12\_3 | 0.419 | 0.329 | 0.062 | 0.050 | 0.431 | 0.371 | 0.058 | 0.042 | 0.434 | 0.396 | 0.046 | 0.028 | 0.473 | 0.422 | 0.033 | 0.030 | 0.510 | 0.497 | 0.024 | 0.024 |
| MAL14\_3 | 0.493 | 0.383 | 0.045 | 0.043 | 0.501 | 0.423 | 0.042 | 0.032 | 0.488 | 0.461 | 0.033 | 0.025 | 0.566 | 0.464 | 0.026 | 0.027 | 0.600 | 0.558 | 0.019 | 0.020 |
| MAL16\_3 | 0.555 | 0.548 | 0.056 | 0.057 | 0.567 | 0.605 | 0.053 | 0.045 | 0.557 | 0.598 | 0.047 | 0.037 | 0.643 | 0.600 | 0.035 | 0.038 | 0.615 | 0.709 | 0.023 | 0.027 |
| MAL20\_3 | 0.537 | 0.605 | 0.063 | 0.059 | 0.546 | 0.646 | 0.061 | 0.047 | 0.552 | 0.585 | 0.048 | 0.036 | 0.633 | 0.580 | 0.034 | 0.037 | 0.660 | 0.712 | 0.023 | 0.028 |
| MAL21\_3 | 0.311 | 0.289 | 0.058 | 0.050 | 0.320 | 0.339 | 0.056 | 0.042 | 0.370 | 0.349 | 0.041 | 0.028 | 0.429 | 0.343 | 0.030 | 0.027 | 0.442 | 0.470 | 0.022 | 0.024 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O4 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL2\_4 | 0.519 | 0.427 | 0.033 | 0.028 | 0.522 | 0.446 | 0.033 | 0.027 | 0.502 | 0.458 | 0.028 | 0.022 | 0.487 | 0.481 | 0.021 | 0.020 | 0.527 | 0.603 | 0.018 | 0.017 |
| MAL3\_4 | 0.638 | 0.584 | 0.034 | 0.027 | 0.644 | 0.605 | 0.034 | 0.025 | 0.659 | 0.622 | 0.028 | 0.021 | 0.659 | 0.638 | 0.021 | 0.019 | 0.673 | 0.727 | 0.017 | 0.016 |
| MAL5\_4 | 0.558 | 0.543 | 0.033 | 0.026 | 0.566 | 0.563 | 0.031 | 0.025 | 0.535 | 0.548 | 0.026 | 0.021 | 0.568 | 0.563 | 0.020 | 0.018 | 0.648 | 0.684 | 0.017 | 0.015 |
| MAL9\_4 | 0.348 | 0.424 | 0.065 | 0.056 | 0.354 | 0.429 | 0.063 | 0.055 | 0.498 | 0.523 | 0.049 | 0.042 | 0.532 | 0.524 | 0.034 | 0.034 | 0.390 | 0.487 | 0.025 | 0.029 |
| MAL12\_4 | 0.509 | 0.492 | 0.048 | 0.034 | 0.515 | 0.512 | 0.045 | 0.033 | 0.533 | 0.511 | 0.039 | 0.028 | 0.506 | 0.544 | 0.030 | 0.025 | 0.543 | 0.595 | 0.022 | 0.020 |
| MAL14\_4 | 0.538 | 0.584 | 0.034 | 0.025 | 0.544 | 0.601 | 0.032 | 0.023 | 0.533 | 0.568 | 0.028 | 0.021 | 0.583 | 0.569 | 0.021 | 0.019 | 0.634 | 0.656 | 0.017 | 0.015 |
| MAL19\_4 | 0.663 | 0.675 | 0.041 | 0.032 | 0.672 | 0.692 | 0.040 | 0.030 | 0.634 | 0.699 | 0.038 | 0.028 | 0.658 | 0.705 | 0.031 | 0.026 | 0.648 | 0.793 | 0.020 | 0.019 |
| MAL20\_4 | 0.659 | 0.667 | 0.045 | 0.031 | 0.665 | 0.687 | 0.045 | 0.030 | 0.662 | 0.679 | 0.038 | 0.027 | 0.658 | 0.697 | 0.030 | 0.025 | 0.692 | 0.795 | 0.021 | 0.019 |
| MAL21\_4 | 0.417 | 0.454 | 0.051 | 0.034 | 0.422 | 0.472 | 0.050 | 0.033 | 0.479 | 0.502 | 0.039 | 0.027 | 0.510 | 0.496 | 0.027 | 0.024 | 0.474 | 0.567 | 0.021 | 0.022 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O4 ON |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O3 | 0.478 | 0.218 | 0.054 | 0.074 | 0.492 | 0.310 | 0.048 | 0.042 | 0.488 | 0.316 | 0.044 | 0.041 | 0.511 | 0.406 | 0.037 | 0.033 | 0.629 | 0.531 | 0.028 | 0.026 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O3 ON |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O2 | 0.195 | -0.078 | 0.112 | 0.134 | 0.205 | 0.060 | 0.108 | 0.079 | 0.104 | 0.038 | 0.121 | 0.096 | 0.204 | 0.239 | 0.075 | 0.085 | 0.371 | 0.477 | 0.046 | 0.046 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O2 ON |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O1 | 0.193 | 0.155 | 0.104 | 0.076 | 0.157 | 0.072 | 0.081 | 0.085 | 0.087 | 0.032 | 0.089 | 0.076 | 0.135 | 0.168 | 0.042 | 0.052 | 0.278 | 0.401 | 0.050 | 0.043 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O1 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| O2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| O3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| O4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O2 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| O3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| O4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O3 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| O4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O4 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T2 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.654 | 0.765 | 0.032 | 0.021 | 0.654 | 0.762 | 0.032 | 0.021 | 0.655 | 0.761 | 0.031 | 0.021 | 0.659 | 0.744 | 0.031 | 0.022 | 0.745 | 0.583 | 0.038 | 0.028 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T3 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.564 | 0.588 | 0.028 | 0.022 | 0.563 | 0.581 | 0.028 | 0.023 | 0.568 | 0.583 | 0.027 | 0.023 | 0.568 | 0.556 | 0.027 | 0.025 | 0.619 | 0.381 | 0.033 | 0.030 |
| T2 | 0.804 | 0.783 | 0.024 | 0.017 | 0.804 | 0.778 | 0.024 | 0.018 | 0.806 | 0.780 | 0.023 | 0.018 | 0.792 | 0.771 | 0.023 | 0.020 | 0.888 | 0.623 | 0.028 | 0.026 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T4 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.367 | 0.460 | 0.049 | 0.037 | 0.367 | 0.457 | 0.049 | 0.038 | 0.394 | 0.460 | 0.048 | 0.037 | 0.377 | 0.441 | 0.049 | 0.039 | 0.432 | 0.330 | 0.056 | 0.041 |
| T2 | 0.587 | 0.621 | 0.046 | 0.036 | 0.587 | 0.617 | 0.046 | 0.037 | 0.623 | 0.622 | 0.044 | 0.037 | 0.602 | 0.621 | 0.045 | 0.039 | 0.714 | 0.539 | 0.050 | 0.044 |
| T3 | 0.504 | 0.480 | 0.045 | 0.034 | 0.505 | 0.476 | 0.044 | 0.034 | 0.534 | 0.482 | 0.043 | 0.034 | 0.514 | 0.468 | 0.043 | 0.036 | 0.584 | 0.363 | 0.049 | 0.039 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T5 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.447 | 0.489 | 0.043 | 0.032 | 0.446 | 0.484 | 0.043 | 0.032 | 0.457 | 0.484 | 0.042 | 0.032 | 0.460 | 0.456 | 0.041 | 0.034 | 0.526 | 0.307 | 0.053 | 0.035 |
| T2 | 0.701 | 0.685 | 0.038 | 0.027 | 0.700 | 0.678 | 0.038 | 0.028 | 0.707 | 0.677 | 0.036 | 0.028 | 0.710 | 0.659 | 0.037 | 0.030 | 0.850 | 0.524 | 0.046 | 0.035 |
| T3 | 0.757 | 0.727 | 0.030 | 0.025 | 0.756 | 0.722 | 0.030 | 0.025 | 0.761 | 0.723 | 0.029 | 0.025 | 0.760 | 0.707 | 0.030 | 0.027 | 0.893 | 0.548 | 0.038 | 0.028 |
| T4 | 0.529 | 0.539 | 0.053 | 0.041 | 0.528 | 0.533 | 0.053 | 0.042 | 0.557 | 0.535 | 0.052 | 0.041 | 0.543 | 0.525 | 0.053 | 0.044 | 0.653 | 0.424 | 0.062 | 0.043 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T6 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.453 | 0.529 | 0.035 | 0.025 | 0.452 | 0.524 | 0.035 | 0.025 | 0.462 | 0.524 | 0.034 | 0.025 | 0.446 | 0.503 | 0.033 | 0.027 | 0.485 | 0.347 | 0.041 | 0.031 |
| T2 | 0.633 | 0.710 | 0.033 | 0.021 | 0.631 | 0.704 | 0.034 | 0.021 | 0.640 | 0.705 | 0.032 | 0.021 | 0.605 | 0.700 | 0.032 | 0.023 | 0.684 | 0.565 | 0.039 | 0.029 |
| T3 | 0.707 | 0.734 | 0.024 | 0.018 | 0.707 | 0.731 | 0.024 | 0.018 | 0.713 | 0.734 | 0.024 | 0.018 | 0.689 | 0.727 | 0.024 | 0.020 | 0.772 | 0.576 | 0.029 | 0.024 |
| T4 | 0.746 | 0.668 | 0.035 | 0.031 | 0.747 | 0.665 | 0.035 | 0.031 | 0.782 | 0.667 | 0.035 | 0.031 | 0.757 | 0.669 | 0.035 | 0.033 | 0.900 | 0.569 | 0.040 | 0.035 |
| T5 | 0.643 | 0.666 | 0.037 | 0.025 | 0.642 | 0.660 | 0.037 | 0.026 | 0.653 | 0.659 | 0.035 | 0.026 | 0.640 | 0.647 | 0.036 | 0.028 | 0.765 | 0.504 | 0.046 | 0.030 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T7 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.482 | 0.610 | 0.045 | 0.033 | 0.478 | 0.604 | 0.045 | 0.034 | 0.490 | 0.604 | 0.044 | 0.034 | 0.474 | 0.583 | 0.044 | 0.037 | 0.497 | 0.426 | 0.050 | 0.047 |
| T2 | 0.653 | 0.796 | 0.044 | 0.027 | 0.649 | 0.787 | 0.044 | 0.028 | 0.659 | 0.788 | 0.042 | 0.028 | 0.625 | 0.789 | 0.043 | 0.030 | 0.690 | 0.687 | 0.048 | 0.042 |
| T3 | 0.666 | 0.737 | 0.034 | 0.028 | 0.663 | 0.732 | 0.034 | 0.029 | 0.673 | 0.737 | 0.033 | 0.029 | 0.645 | 0.727 | 0.033 | 0.032 | 0.676 | 0.604 | 0.039 | 0.039 |
| T4 | 0.573 | 0.578 | 0.054 | 0.044 | 0.570 | 0.575 | 0.054 | 0.045 | 0.597 | 0.575 | 0.054 | 0.045 | 0.568 | 0.580 | 0.055 | 0.048 | 0.638 | 0.535 | 0.057 | 0.059 |
| T5 | 0.761 | 0.742 | 0.042 | 0.033 | 0.757 | 0.734 | 0.042 | 0.035 | 0.768 | 0.731 | 0.040 | 0.035 | 0.761 | 0.722 | 0.041 | 0.038 | 0.870 | 0.620 | 0.048 | 0.044 |
| T6 | 0.702 | 0.732 | 0.035 | 0.027 | 0.698 | 0.727 | 0.035 | 0.027 | 0.712 | 0.729 | 0.033 | 0.027 | 0.667 | 0.731 | 0.034 | 0.030 | 0.730 | 0.625 | 0.040 | 0.037 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T8 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.632 | 0.752 | 0.043 | 0.031 | 0.632 | 0.752 | 0.043 | 0.032 | 0.638 | 0.747 | 0.042 | 0.031 | 0.623 | 0.738 | 0.042 | 0.034 | 0.690 | 0.575 | 0.052 | 0.042 |
| T2 | 0.738 | 0.834 | 0.044 | 0.026 | 0.737 | 0.829 | 0.045 | 0.027 | 0.743 | 0.824 | 0.043 | 0.027 | 0.705 | 0.834 | 0.043 | 0.030 | 0.796 | 0.709 | 0.052 | 0.040 |
| T3 | 0.710 | 0.660 | 0.042 | 0.031 | 0.709 | 0.653 | 0.043 | 0.032 | 0.718 | 0.655 | 0.042 | 0.032 | 0.683 | 0.644 | 0.040 | 0.036 | 0.737 | 0.478 | 0.050 | 0.047 |
| T4 | 0.716 | 0.768 | 0.057 | 0.036 | 0.716 | 0.772 | 0.057 | 0.037 | 0.756 | 0.764 | 0.055 | 0.037 | 0.714 | 0.785 | 0.055 | 0.040 | 0.842 | 0.741 | 0.065 | 0.052 |
| T5 | 0.757 | 0.706 | 0.044 | 0.034 | 0.756 | 0.701 | 0.044 | 0.036 | 0.767 | 0.696 | 0.042 | 0.035 | 0.750 | 0.688 | 0.043 | 0.039 | 0.886 | 0.561 | 0.055 | 0.046 |
| T6 | 0.812 | 0.820 | 0.035 | 0.025 | 0.811 | 0.820 | 0.035 | 0.026 | 0.819 | 0.820 | 0.035 | 0.025 | 0.766 | 0.837 | 0.033 | 0.028 | 0.868 | 0.713 | 0.043 | 0.033 |
| T7 | 0.844 | 0.851 | 0.040 | 0.031 | 0.840 | 0.849 | 0.041 | 0.033 | 0.854 | 0.847 | 0.039 | 0.032 | 0.803 | 0.869 | 0.039 | 0.035 | 0.881 | 0.759 | 0.045 | 0.051 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T9 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.548 | 0.585 | 0.038 | 0.031 | 0.547 | 0.578 | 0.038 | 0.032 | 0.553 | 0.584 | 0.037 | 0.031 | 0.547 | 0.569 | 0.038 | 0.033 | 0.616 | 0.427 | 0.044 | 0.036 |
| T2 | 0.632 | 0.665 | 0.042 | 0.029 | 0.631 | 0.656 | 0.042 | 0.030 | 0.639 | 0.668 | 0.041 | 0.030 | 0.616 | 0.665 | 0.040 | 0.032 | 0.700 | 0.547 | 0.047 | 0.039 |
| T3 | 0.580 | 0.573 | 0.038 | 0.027 | 0.580 | 0.566 | 0.038 | 0.027 | 0.585 | 0.577 | 0.038 | 0.027 | 0.566 | 0.565 | 0.037 | 0.030 | 0.631 | 0.431 | 0.042 | 0.034 |
| T4 | 0.577 | 0.519 | 0.053 | 0.045 | 0.577 | 0.514 | 0.053 | 0.045 | 0.611 | 0.526 | 0.053 | 0.045 | 0.589 | 0.524 | 0.054 | 0.046 | 0.668 | 0.445 | 0.059 | 0.050 |
| T5 | 0.773 | 0.779 | 0.036 | 0.028 | 0.773 | 0.776 | 0.036 | 0.029 | 0.789 | 0.785 | 0.035 | 0.028 | 0.781 | 0.783 | 0.037 | 0.030 | 0.934 | 0.658 | 0.044 | 0.031 |
| T6 | 0.471 | 0.568 | 0.043 | 0.028 | 0.470 | 0.562 | 0.043 | 0.029 | 0.485 | 0.570 | 0.042 | 0.029 | 0.454 | 0.564 | 0.041 | 0.031 | 0.513 | 0.439 | 0.048 | 0.035 |
| T7 | 0.656 | 0.732 | 0.047 | 0.034 | 0.653 | 0.726 | 0.048 | 0.035 | 0.661 | 0.739 | 0.047 | 0.035 | 0.628 | 0.748 | 0.047 | 0.038 | 0.688 | 0.674 | 0.050 | 0.048 |
| T8 | 0.606 | 0.651 | 0.057 | 0.038 | 0.605 | 0.645 | 0.058 | 0.040 | 0.611 | 0.648 | 0.057 | 0.039 | 0.569 | 0.655 | 0.056 | 0.043 | 0.642 | 0.538 | 0.064 | 0.054 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | | | | | | | | | | | | | | | | | | | | |
| BCS Unstandardized Results | | | | | | | | | | | | | | | | | | | | |
|  | Model 0 | | | | Model l | | | | Model 2 | | | | Model 3 | | | | Model 4 | | | |
| Parameters/  Variables\* | Estimate | | S.E. | | Estimate | | S.E. | | Estimate | | S.E. | | Estimate | | S.E. | | Estimate | | S.E. | |
|  | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F |
| T1 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL2\_1 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL2\_2 | 1.342 | 1.191 | 0.171 | 0.136 | 1.342 | 1.149 | 0.174 | 0.130 | 1.397 | 1.160 | 0.229 | 0.130 | 1.106 | 1.106 | 0.102 | 0.102 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL2\_3 | 1.116 | 0.967 | 0.131 | 0.097 | 1.082 | 1.003 | 0.120 | 0.105 | 1.506 | 1.025 | 0.246 | 0.108 | 1.164 | 1.164 | 0.109 | 0.109 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL2\_4 | 1.202 | 0.985 | 0.163 | 0.107 | 1.163 | 1.053 | 0.159 | 0.118 | 1.438 | 1.050 | 0.249 | 0.117 | 0.997 | 0.997 | 0.097 | 0.097 | 1.000 | 1.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T2 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL3\_1 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL3\_2 | 1.411 | 1.091 | 0.208 | 0.134 | 1.428 | 1.052 | 0.214 | 0.122 | 0.853 | 1.107 | 0.212 | 0.114 | 1.115 | 1.115 | 0.142 | 0.142 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL3\_3 | 1.498 | 1.012 | 0.218 | 0.130 | 1.440 | 1.063 | 0.204 | 0.134 | 0.678 | 1.095 | 0.161 | 0.120 | 1.115 | 1.115 | 0.151 | 0.151 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL3\_4 | 1.621 | 0.854 | 0.286 | 0.108 | 1.531 | 0.972 | 0.260 | 0.126 | 0.955 | 0.997 | 0.250 | 0.116 | 1.393 | 1.393 | 0.202 | 0.202 | 1.000 | 1.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T3 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL5\_1 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL5\_2 | 1.468 | 1.329 | 0.194 | 0.141 | 1.464 | 1.276 | 0.191 | 0.125 | 0.912 | 1.291 | 0.135 | 0.114 | 0.893 | 0.893 | 0.066 | 0.066 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL5\_3 | 1.874 | 1.643 | 0.278 | 0.200 | 1.788 | 1.768 | 0.246 | 0.213 | 0.839 | 1.755 | 0.132 | 0.178 | 0.732 | 0.732 | 0.057 | 0.057 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL5\_4 | 1.414 | 1.211 | 0.199 | 0.137 | 1.345 | 1.370 | 0.179 | 0.158 | 1.117 | 1.377 | 0.204 | 0.138 | 0.898 | 0.898 | 0.079 | 0.079 | 1.000 | 1.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T4 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL9\_1 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL9\_2 | 1.568 | 0.792 | 0.347 | 0.195 | 1.563 | 0.746 | 0.352 | 0.183 | 1.049 | 0.803 | 0.220 | 0.174 | 1.302 | 1.302 | 0.173 | 0.173 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL9\_3 | 1.248 | 0.718 | 0.251 | 0.177 | 1.206 | 0.764 | 0.240 | 0.197 | 1.142 | 0.824 | 0.255 | 0.182 | 1.324 | 1.324 | 0.186 | 0.186 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL9\_4 | 1.115 | 0.683 | 0.253 | 0.189 | 1.076 | 0.789 | 0.248 | 0.239 | 1.488 | 0.851 | 0.355 | 0.212 | 1.559 | 1.559 | 0.242 | 0.242 | 1.000 | 1.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T5 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL12\_1 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL12\_2 | 1.382 | 1.628 | 0.277 | 0.265 | 1.378 | 1.543 | 0.273 | 0.243 | 0.879 | 1.471 | 0.214 | 0.198 | 0.805 | 0.805 | 0.090 | 0.090 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL12\_3 | 2.525 | 1.601 | 0.835 | 0.255 | 2.369 | 1.782 | 0.735 | 0.308 | 0.440 | 1.772 | 0.116 | 0.256 | 0.623 | 0.623 | 0.079 | 0.079 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL12\_4 | 1.440 | 1.209 | 0.348 | 0.176 | 1.379 | 1.406 | 0.334 | 0.225 | 0.760 | 1.452 | 0.234 | 0.211 | 0.753 | 0.753 | 0.104 | 0.104 | 1.000 | 1.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T6 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL14\_1 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL14\_2 | 1.122 | 1.306 | 0.131 | 0.155 | 1.121 | 1.207 | 0.131 | 0.129 | 1.454 | 1.161 | 0.244 | 0.109 | 0.902 | 0.902 | 0.080 | 0.080 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL14\_3 | 1.557 | 1.511 | 0.200 | 0.180 | 1.501 | 1.617 | 0.194 | 0.197 | 1.052 | 1.580 | 0.157 | 0.164 | 0.697 | 0.697 | 0.064 | 0.064 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL14\_4 | 1.294 | 1.139 | 0.165 | 0.126 | 1.244 | 1.276 | 0.162 | 0.147 | 1.491 | 1.233 | 0.259 | 0.127 | 0.860 | 0.860 | 0.088 | 0.088 | 1.000 | 1.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T7 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL16\_1 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL16\_2 | 1.594 | 1.156 | 0.303 | 0.268 | 1.599 | 1.044 | 0.308 | 0.227 | 0.760 | 1.043 | 0.209 | 0.180 | 1.082 | 1.082 | 0.163 | 0.163 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL16\_3 | 2.472 | 1.444 | 0.613 | 0.307 | 2.393 | 1.622 | 0.591 | 0.377 | 0.342 | 1.611 | 0.101 | 0.271 | 0.529 | 0.529 | 0.117 | 0.117 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL19\_4 | 2.612 | 1.273 | 0.751 | 0.287 | 2.472 | 1.562 | 0.697 | 0.409 | 0.349 | 1.401 | 0.121 | 0.252 | 0.452 | 0.452 | 0.139 | 0.139 | 1.000 | 1.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T8 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL20\_1 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL20\_2 | 1.038 | 0.804 | 0.251 | 0.147 | 1.020 | 0.812 | 0.251 | 0.146 | 0.435 | 0.946 | 0.351 | 0.148 | 1.539 | 1.539 | 0.329 | 0.329 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL20\_3 | 1.573 | 0.846 | 0.361 | 0.145 | 1.495 | 0.921 | 0.346 | 0.158 | 1.423 | 1.009 | 0.440 | 0.144 | 1.295 | 1.295 | 0.271 | 0.271 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL20\_4 | 1.236 | 0.631 | 0.255 | 0.110 | 1.169 | 0.724 | 0.248 | 0.126 | 2.062 | 0.828 | 0.657 | 0.127 | 1.841 | 1.841 | 0.386 | 0.386 | 1.000 | 1.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T9 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | BY | BY |  |  |
| MAL21\_1 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL21\_2 | 1.282 | 1.131 | 0.242 | 0.173 | 1.286 | 1.094 | 0.243 | 0.170 | 0.925 | 1.124 | 0.284 | 0.168 | 1.000 | 1.000 | 0.138 | 0.138 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL21\_3 | 1.851 | 1.728 | 0.396 | 0.325 | 1.770 | 1.973 | 0.367 | 0.407 | 0.654 | 2.003 | 0.189 | 0.347 | 0.593 | 0.593 | 0.094 | 0.094 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL21\_4 | 1.468 | 1.218 | 0.343 | 0.205 | 1.392 | 1.445 | 0.322 | 0.266 | 0.499 | 1.389 | 0.170 | 0.228 | 0.565 | 0.565 | 0.110 | 0.110 | 1.000 | 1.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O1 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL2\_1 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL3\_1 | 2.084 | 2.384 | 0.397 | 0.424 | 2.017 | 2.563 | 0.383 | 0.428 | 1.469 | 2.072 | 0.112 | 0.163 | 1.654 | 1.654 | 0.078 | 0.078 | 1.728 | 1.728 | 0.099 | 0.099 |
| MAL5\_1 | 1.895 | 1.723 | 0.376 | 0.330 | 1.857 | 1.848 | 0.372 | 0.335 | 1.488 | 1.630 | 0.112 | 0.139 | 1.532 | 1.532 | 0.076 | 0.076 | 1.481 | 1.481 | 0.092 | 0.092 |
| MAL9\_1 | 1.287 | 2.100 | 0.298 | 0.525 | 1.247 | 2.341 | 0.297 | 0.553 | 1.144 | 1.542 | 0.126 | 0.177 | 1.300 | 1.300 | 0.092 | 0.092 | 0.898 | 0.898 | 0.077 | 0.077 |
| MAL12\_1 | 2.272 | 1.640 | 0.508 | 0.332 | 2.181 | 1.941 | 0.493 | 0.367 | 1.545 | 1.625 | 0.166 | 0.147 | 1.514 | 1.514 | 0.090 | 0.090 | 1.382 | 1.382 | 0.091 | 0.091 |
| MAL14\_1 | 1.790 | 1.501 | 0.348 | 0.273 | 1.732 | 1.673 | 0.340 | 0.285 | 1.281 | 1.657 | 0.098 | 0.131 | 1.368 | 1.368 | 0.065 | 0.065 | 1.572 | 1.572 | 0.092 | 0.092 |
| MAL16\_1 | 1.696 | 2.597 | 0.408 | 0.566 | 1.673 | 3.005 | 0.408 | 0.629 | 1.509 | 2.702 | 0.149 | 0.301 | 1.826 | 1.826 | 0.111 | 0.111 | 1.814 | 1.814 | 0.126 | 0.126 |
| MAL20\_1 | 2.460 | 3.082 | 0.600 | 0.708 | 2.491 | 3.169 | 0.623 | 0.673 | 1.818 | 2.006 | 0.214 | 0.177 | 1.829 | 1.829 | 0.113 | 0.113 | 2.109 | 2.109 | 0.158 | 0.158 |
| MAL21\_1 | 1.548 | 1.813 | 0.317 | 0.366 | 1.518 | 1.999 | 0.313 | 0.383 | 1.104 | 1.666 | 0.097 | 0.157 | 1.251 | 1.251 | 0.069 | 0.069 | 1.229 | 1.229 | 0.079 | 0.079 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O2 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL2\_2 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL3\_2 | 2.999 | 1.957 | 0.773 | 0.393 | 3.032 | 2.080 | 0.725 | 0.321 | 1.469 | 2.072 | 0.112 | 0.163 | 1.654 | 1.654 | 0.078 | 0.078 | 1.728 | 1.728 | 0.099 | 0.099 |
| MAL5\_2 | 2.698 | 1.686 | 0.731 | 0.370 | 2.644 | 1.786 | 0.679 | 0.295 | 1.488 | 1.630 | 0.112 | 0.139 | 1.532 | 1.532 | 0.076 | 0.076 | 1.481 | 1.481 | 0.092 | 0.092 |
| MAL9\_2 | 1.282 | 1.552 | 0.446 | 0.405 | 1.253 | 1.693 | 0.412 | 0.365 | 1.144 | 1.542 | 0.126 | 0.177 | 1.300 | 1.300 | 0.092 | 0.092 | 0.898 | 0.898 | 0.077 | 0.077 |
| MAL12\_2 | 2.385 | 2.110 | 0.673 | 0.511 | 2.296 | 2.421 | 0.621 | 0.468 | 1.545 | 1.625 | 0.166 | 0.147 | 1.514 | 1.514 | 0.090 | 0.090 | 1.382 | 1.382 | 0.091 | 0.091 |
| MAL14\_2 | 1.372 | 2.124 | 0.349 | 0.454 | 1.322 | 2.120 | 0.320 | 0.333 | 1.281 | 1.657 | 0.098 | 0.131 | 1.368 | 1.368 | 0.065 | 0.065 | 1.572 | 1.572 | 0.092 | 0.092 |
| MAL16\_2 | 1.533 | 2.886 | 0.443 | 0.808 | 1.493 | 2.867 | 0.421 | 0.629 | 1.509 | 2.702 | 0.149 | 0.301 | 1.826 | 1.826 | 0.111 | 0.111 | 1.814 | 1.814 | 0.126 | 0.126 |
| MAL20\_2 | 1.968 | 1.274 | 0.558 | 0.347 | 1.940 | 1.539 | 0.533 | 0.326 | 1.818 | 2.006 | 0.214 | 0.177 | 1.829 | 1.829 | 0.113 | 0.113 | 2.109 | 2.109 | 0.158 | 0.158 |
| MAL21\_2 | 2.232 | 1.271 | 0.623 | 0.301 | 2.199 | 1.547 | 0.579 | 0.286 | 1.104 | 1.666 | 0.097 | 0.157 | 1.251 | 1.251 | 0.069 | 0.069 | 1.229 | 1.229 | 0.079 | 0.079 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O3 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL2\_3 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL3\_3 | 1.811 | 2.436 | 0.340 | 0.334 | 1.770 | 2.166 | 0.315 | 0.281 | 1.469 | 2.072 | 0.112 | 0.163 | 1.654 | 1.654 | 0.078 | 0.078 | 1.728 | 1.728 | 0.099 | 0.099 |
| MAL5\_3 | 1.880 | 2.018 | 0.382 | 0.310 | 1.844 | 1.774 | 0.354 | 0.267 | 1.488 | 1.630 | 0.112 | 0.139 | 1.532 | 1.532 | 0.076 | 0.076 | 1.481 | 1.481 | 0.092 | 0.092 |
| MAL9\_3 | 0.894 | 1.560 | 0.223 | 0.294 | 0.890 | 1.500 | 0.214 | 0.282 | 1.144 | 1.542 | 0.126 | 0.177 | 1.300 | 1.300 | 0.092 | 0.092 | 0.898 | 0.898 | 0.077 | 0.077 |
| MAL12\_3 | 2.297 | 1.811 | 0.726 | 0.294 | 2.197 | 1.743 | 0.644 | 0.290 | 1.545 | 1.625 | 0.166 | 0.147 | 1.514 | 1.514 | 0.090 | 0.090 | 1.382 | 1.382 | 0.091 | 0.091 |
| MAL14\_3 | 1.518 | 1.928 | 0.276 | 0.260 | 1.518 | 1.785 | 0.260 | 0.235 | 1.281 | 1.657 | 0.098 | 0.131 | 1.368 | 1.368 | 0.065 | 0.065 | 1.572 | 1.572 | 0.092 | 0.092 |
| MAL16\_3 | 2.126 | 2.735 | 0.520 | 0.506 | 2.125 | 2.783 | 0.503 | 0.552 | 1.509 | 2.702 | 0.149 | 0.301 | 1.826 | 1.826 | 0.111 | 0.111 | 1.814 | 1.814 | 0.126 | 0.126 |
| MAL20\_3 | 1.992 | 2.255 | 0.462 | 0.331 | 1.995 | 2.207 | 0.449 | 0.322 | 1.818 | 2.006 | 0.214 | 0.177 | 1.829 | 1.829 | 0.113 | 0.113 | 2.109 | 2.109 | 0.158 | 0.158 |
| MAL21\_3 | 1.254 | 1.740 | 0.295 | 0.291 | 1.226 | 1.720 | 0.275 | 0.307 | 1.104 | 1.666 | 0.097 | 0.157 | 1.251 | 1.251 | 0.069 | 0.069 | 1.229 | 1.229 | 0.079 | 0.079 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O4 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL2\_4 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 |
| MAL3\_4 | 1.741 | 1.760 | 0.350 | 0.219 | 1.659 | 1.860 | 0.322 | 0.241 | 1.469 | 2.072 | 0.112 | 0.163 | 1.654 | 1.654 | 0.078 | 0.078 | 1.728 | 1.728 | 0.099 | 0.099 |
| MAL5\_4 | 1.323 | 1.384 | 0.248 | 0.179 | 1.272 | 1.453 | 0.231 | 0.199 | 1.488 | 1.630 | 0.112 | 0.139 | 1.532 | 1.532 | 0.076 | 0.076 | 1.481 | 1.481 | 0.092 | 0.092 |
| MAL9\_4 | 0.691 | 1.158 | 0.175 | 0.259 | 0.679 | 1.276 | 0.168 | 0.313 | 1.144 | 1.542 | 0.126 | 0.177 | 1.300 | 1.300 | 0.092 | 0.092 | 0.898 | 0.898 | 0.077 | 0.077 |
| MAL12\_4 | 0.980 | 1.252 | 0.212 | 0.174 | 0.959 | 1.347 | 0.203 | 0.204 | 1.545 | 1.625 | 0.166 | 0.147 | 1.514 | 1.514 | 0.090 | 0.090 | 1.382 | 1.382 | 0.091 | 0.091 |
| MAL14\_4 | 1.071 | 1.431 | 0.175 | 0.172 | 1.054 | 1.527 | 0.169 | 0.194 | 1.281 | 1.657 | 0.098 | 0.131 | 1.368 | 1.368 | 0.065 | 0.065 | 1.572 | 1.572 | 0.092 | 0.092 |
| MAL19\_4 | 1.836 | 2.365 | 0.490 | 0.431 | 1.775 | 2.710 | 0.461 | 0.589 | 1.509 | 2.702 | 0.149 | 0.301 | 1.826 | 1.826 | 0.111 | 0.111 | 1.814 | 1.814 | 0.126 | 0.126 |
| MAL20\_4 | 1.646 | 1.577 | 0.320 | 0.195 | 1.615 | 1.673 | 0.310 | 0.218 | 1.818 | 2.006 | 0.214 | 0.177 | 1.829 | 1.829 | 0.113 | 0.113 | 2.109 | 2.109 | 0.158 | 0.158 |
| MAL21\_4 | 1.307 | 1.492 | 0.279 | 0.211 | 1.255 | 1.644 | 0.259 | 0.255 | 1.104 | 1.666 | 0.097 | 0.157 | 1.251 | 1.251 | 0.069 | 0.069 | 1.229 | 1.229 | 0.079 | 0.079 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O4 ON |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O3 | 0.209 | 0.490 | 0.118 | 0.084 | 0.265 | 0.377 | 0.078 | 0.066 | 0.855 | 0.324 | 0.022 | 0.049 | 0.842 | 0.842 | 0.013 | 0.013 | 0.486 | 0.486 | 0.033 | 0.033 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O3 ON |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O2 | 0.266 | 0.219 | 0.186 | 0.119 | 0.265 | 0.377 | 0.078 | 0.066 | 0.855 | 0.324 | 0.022 | 0.049 | 0.842 | 0.842 | 0.013 | 0.013 | 0.486 | 0.486 | 0.033 | 0.033 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O2 ON |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O1 | 0.309 | 0.122 | 0.122 | 0.150 | 0.265 | 0.377 | 0.078 | 0.066 | 0.855 | 0.324 | 0.022 | 0.049 | 0.842 | 0.842 | 0.013 | 0.013 | 0.486 | 0.486 | 0.033 | 0.033 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O1 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| O2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| O3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| O4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O2 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| O3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| O4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O3 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| O4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O4 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T2 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.815 | 1.053 | 0.106 | 0.122 | 0.843 | 0.962 | 0.105 | 0.110 | 0.206 | 0.938 | 0.082 | 0.105 | 0.260 | 0.031 | 0.074 | 0.064 | 0.931 | 1.034 | 0.069 | 0.080 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T3 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.610 | 0.669 | 0.077 | 0.072 | 0.632 | 0.610 | 0.076 | 0.065 | -0.001 | 0.609 | 0.065 | 0.064 | 0.125 | -0.031 | 0.085 | 0.082 | 0.733 | 0.824 | 0.058 | 0.072 |
| T2 | 1.090 | 1.341 | 0.136 | 0.152 | 1.131 | 1.189 | 0.137 | 0.130 | 0.489 | 1.169 | 0.165 | 0.120 | 0.493 | 0.065 | 0.134 | 0.112 | 1.459 | 1.617 | 0.096 | 0.118 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T4 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.428 | 0.828 | 0.081 | 0.161 | 0.443 | 0.762 | 0.083 | 0.150 | -0.052 | 0.714 | 0.053 | 0.127 | -0.013 | -0.070 | 0.064 | 0.062 | 0.523 | 0.595 | 0.068 | 0.071 |
| T2 | 0.866 | 1.654 | 0.142 | 0.325 | 0.896 | 1.472 | 0.146 | 0.293 | 0.274 | 1.375 | 0.132 | 0.241 | 0.213 | -0.054 | 0.097 | 0.084 | 1.143 | 1.166 | 0.106 | 0.111 |
| T3 | 0.568 | 1.008 | 0.099 | 0.193 | 0.591 | 0.891 | 0.102 | 0.173 | -0.097 | 0.850 | 0.105 | 0.145 | -0.026 | -0.183 | 0.110 | 0.108 | 0.805 | 0.880 | 0.089 | 0.101 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T5 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.543 | 0.488 | 0.097 | 0.066 | 0.562 | 0.443 | 0.098 | 0.061 | -0.044 | 0.439 | 0.101 | 0.059 | 0.095 | -0.260 | 0.113 | 0.090 | 0.637 | 0.601 | 0.071 | 0.075 |
| T2 | 0.969 | 1.037 | 0.174 | 0.141 | 1.004 | 0.906 | 0.180 | 0.125 | 0.575 | 0.894 | 0.253 | 0.114 | 0.498 | -0.244 | 0.180 | 0.126 | 1.280 | 1.285 | 0.115 | 0.125 |
| T3 | 0.922 | 0.949 | 0.151 | 0.112 | 0.958 | 0.848 | 0.154 | 0.100 | 0.552 | 0.843 | 0.218 | 0.094 | 0.760 | 0.281 | 0.213 | 0.166 | 1.308 | 1.590 | 0.100 | 0.122 |
| T4 | 0.764 | 0.905 | 0.161 | 0.193 | 0.791 | 0.793 | 0.167 | 0.177 | 0.351 | 0.761 | 0.185 | 0.153 | 0.384 | -0.234 | 0.167 | 0.123 | 1.074 | 0.844 | 0.121 | 0.119 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T6 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.542 | 0.625 | 0.072 | 0.067 | 0.561 | 0.576 | 0.073 | 0.062 | -0.010 | 0.586 | 0.047 | 0.062 | 0.060 | -0.051 | 0.079 | 0.073 | 0.573 | 0.785 | 0.058 | 0.074 |
| T2 | 0.950 | 1.198 | 0.124 | 0.141 | 0.985 | 1.069 | 0.129 | 0.123 | 0.241 | 1.074 | 0.110 | 0.115 | 0.302 | -0.024 | 0.121 | 0.099 | 1.103 | 1.477 | 0.093 | 0.120 |
| T3 | 0.911 | 0.982 | 0.111 | 0.101 | 0.947 | 0.883 | 0.114 | 0.088 | 0.243 | 0.902 | 0.098 | 0.086 | 0.521 | 0.287 | 0.151 | 0.133 | 1.166 | 1.601 | 0.083 | 0.119 |
| T4 | 0.954 | 1.436 | 0.154 | 0.270 | 0.988 | 1.313 | 0.160 | 0.251 | 0.408 | 1.266 | 0.108 | 0.213 | 0.566 | 0.235 | 0.131 | 0.101 | 1.244 | 1.372 | 0.099 | 0.114 |
| T5 | 0.828 | 0.806 | 0.147 | 0.101 | 0.858 | 0.722 | 0.152 | 0.092 | 0.286 | 0.739 | 0.157 | 0.089 | 0.530 | 0.034 | 0.204 | 0.143 | 1.034 | 1.368 | 0.103 | 0.126 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T7 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.434 | 0.705 | 0.078 | 0.121 | 0.449 | 0.639 | 0.078 | 0.112 | -0.115 | 0.654 | 0.114 | 0.106 | -0.099 | -0.368 | 0.124 | 0.104 | 0.722 | 0.646 | 0.090 | 0.086 |
| T2 | 0.655 | 1.353 | 0.115 | 0.242 | 0.680 | 1.180 | 0.118 | 0.214 | 0.143 | 1.196 | 0.261 | 0.196 | -0.026 | -0.524 | 0.185 | 0.157 | 1.184 | 1.244 | 0.128 | 0.143 |
| T3 | 0.640 | 1.026 | 0.109 | 0.167 | 0.666 | 0.911 | 0.111 | 0.150 | 0.202 | 0.940 | 0.232 | 0.141 | 0.158 | -0.462 | 0.221 | 0.180 | 1.269 | 1.229 | 0.124 | 0.129 |
| T4 | 0.611 | 1.343 | 0.132 | 0.322 | 0.635 | 1.187 | 0.135 | 0.296 | 0.472 | 1.161 | 0.244 | 0.259 | 0.288 | -0.368 | 0.197 | 0.143 | 1.230 | 0.966 | 0.156 | 0.124 |
| T5 | 0.631 | 1.071 | 0.136 | 0.197 | 0.655 | 0.948 | 0.140 | 0.181 | 0.528 | 0.975 | 0.362 | 0.170 | 0.391 | -0.252 | 0.281 | 0.210 | 1.250 | 1.413 | 0.135 | 0.153 |
| T6 | 0.648 | 1.041 | 0.115 | 0.174 | 0.674 | 0.931 | 0.118 | 0.159 | 0.321 | 0.983 | 0.192 | 0.152 | 0.302 | -0.316 | 0.222 | 0.165 | 1.147 | 1.302 | 0.119 | 0.139 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T8 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.928 | 1.174 | 0.174 | 0.192 | 0.978 | 1.050 | 0.184 | 0.166 | 0.098 | 0.945 | 0.062 | 0.133 | 0.202 | -0.052 | 0.077 | 0.058 | 1.057 | 0.967 | 0.109 | 0.104 |
| T2 | 1.269 | 1.941 | 0.244 | 0.331 | 1.338 | 1.675 | 0.263 | 0.277 | 0.169 | 1.495 | 0.130 | 0.218 | 0.199 | -0.182 | 0.101 | 0.087 | 1.523 | 1.503 | 0.152 | 0.167 |
| T3 | 1.018 | 1.267 | 0.190 | 0.207 | 1.076 | 1.094 | 0.203 | 0.171 | -0.039 | 0.993 | 0.094 | 0.134 | 0.105 | -0.268 | 0.113 | 0.110 | 1.321 | 1.228 | 0.135 | 0.145 |
| T4 | 1.041 | 2.050 | 0.235 | 0.468 | 1.100 | 1.807 | 0.254 | 0.416 | 0.187 | 1.563 | 0.112 | 0.315 | 0.206 | -0.055 | 0.101 | 0.076 | 1.385 | 1.275 | 0.159 | 0.146 |
| T5 | 0.982 | 1.177 | 0.234 | 0.216 | 1.036 | 1.018 | 0.251 | 0.185 | -0.037 | 0.921 | 0.152 | 0.147 | 0.162 | -0.331 | 0.152 | 0.125 | 1.250 | 1.225 | 0.155 | 0.167 |
| T6 | 1.346 | 1.677 | 0.247 | 0.269 | 1.420 | 1.487 | 0.269 | 0.231 | 0.317 | 1.370 | 0.126 | 0.185 | 0.507 | 0.110 | 0.149 | 0.093 | 1.577 | 1.825 | 0.141 | 0.171 |
| T7 | 0.928 | 1.876 | 0.218 | 0.399 | 0.982 | 1.620 | 0.232 | 0.346 | 0.397 | 1.509 | 0.268 | 0.284 | 0.263 | -0.345 | 0.193 | 0.146 | 1.731 | 1.467 | 0.196 | 0.194 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T9 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.506 | 0.520 | 0.085 | 0.073 | 0.523 | 0.468 | 0.086 | 0.067 | 0.069 | 0.467 | 0.075 | 0.065 | 0.158 | -0.118 | 0.091 | 0.078 | 0.614 | 0.573 | 0.062 | 0.063 |
| T2 | 0.676 | 0.899 | 0.116 | 0.134 | 0.700 | 0.773 | 0.119 | 0.116 | 0.150 | 0.763 | 0.150 | 0.107 | 0.136 | -0.249 | 0.128 | 0.107 | 0.891 | 0.946 | 0.094 | 0.097 |
| T3 | 0.694 | 0.703 | 0.108 | 0.097 | 0.721 | 0.615 | 0.111 | 0.084 | 0.219 | 0.617 | 0.144 | 0.080 | 0.347 | -0.126 | 0.160 | 0.135 | 0.986 | 0.965 | 0.082 | 0.092 |
| T4 | 0.617 | 0.858 | 0.121 | 0.192 | 0.639 | 0.738 | 0.125 | 0.171 | 0.256 | 0.703 | 0.127 | 0.149 | 0.260 | -0.161 | 0.125 | 0.105 | 0.879 | 0.691 | 0.098 | 0.098 |
| T5 | 0.728 | 0.775 | 0.151 | 0.120 | 0.755 | 0.678 | 0.158 | 0.108 | 0.627 | 0.675 | 0.257 | 0.103 | 0.693 | 0.185 | 0.240 | 0.160 | 1.043 | 1.192 | 0.107 | 0.113 |
| T6 | 0.664 | 0.627 | 0.106 | 0.088 | 0.690 | 0.546 | 0.110 | 0.077 | 0.199 | 0.560 | 0.108 | 0.075 | 0.348 | -0.165 | 0.157 | 0.119 | 0.838 | 0.875 | 0.083 | 0.095 |
| T7 | 0.555 | 0.943 | 0.116 | 0.188 | 0.577 | 0.811 | 0.119 | 0.167 | 0.613 | 0.836 | 0.306 | 0.158 | 0.413 | -0.191 | 0.247 | 0.168 | 1.124 | 1.058 | 0.127 | 0.122 |
| T8 | 0.877 | 1.046 | 0.199 | 0.203 | 0.925 | 0.885 | 0.213 | 0.169 | 0.116 | 0.806 | 0.121 | 0.137 | 0.192 | -0.283 | 0.126 | 0.108 | 1.152 | 0.913 | 0.133 | 0.130 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BCS Standardized Results | | | | | | | | | | | | | | | | | | | | |
|  | Model 0 | | | | Model 1 | | | | Model 2 | | | | Model 3 | | | | Model 4 | | | |
| Parameters/  Variables\* | Estimate | | S.E. | | Estimate | | S.E. | | Estimate | | S.E. | | Estimate | | S.E. | | Estimate | | S.E. | |
|  | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F |
| T1 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL2\_1 | 0.673 | 0.698 | 0.029 | 0.025 | 0.680 | 0.689 | 0.028 | 0.026 | 0.430 | 0.680 | 0.045 | 0.026 | 0.677 | 0.707 | 0.014 | 0.012 | 0.677 | 0.707 | 0.014 | 0.012 |
| MAL2\_2 | 0.775 | 0.750 | 0.029 | 0.027 | 0.781 | 0.727 | 0.028 | 0.027 | 0.538 | 0.726 | 0.048 | 0.027 | 0.655 | 0.696 | 0.014 | 0.012 | 0.655 | 0.696 | 0.014 | 0.012 |
| MAL2\_3 | 0.680 | 0.657 | 0.030 | 0.023 | 0.674 | 0.651 | 0.028 | 0.025 | 0.558 | 0.655 | 0.045 | 0.026 | 0.636 | 0.671 | 0.014 | 0.012 | 0.636 | 0.671 | 0.014 | 0.012 |
| MAL2\_4 | 0.673 | 0.629 | 0.031 | 0.026 | 0.663 | 0.651 | 0.032 | 0.028 | 0.511 | 0.661 | 0.046 | 0.028 | 0.623 | 0.660 | 0.014 | 0.013 | 0.623 | 0.660 | 0.014 | 0.013 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T2 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL3\_1 | 0.674 | 0.741 | 0.032 | 0.027 | 0.683 | 0.712 | 0.030 | 0.027 | 0.526 | 0.715 | 0.068 | 0.025 | 0.734 | 0.713 | 0.019 | 0.018 | 0.734 | 0.713 | 0.019 | 0.018 |
| MAL3\_2 | 0.734 | 0.774 | 0.039 | 0.033 | 0.742 | 0.730 | 0.035 | 0.030 | 0.446 | 0.732 | 0.066 | 0.027 | 0.688 | 0.693 | 0.018 | 0.017 | 0.688 | 0.693 | 0.018 | 0.017 |
| MAL3\_3 | 0.765 | 0.655 | 0.035 | 0.027 | 0.758 | 0.658 | 0.031 | 0.030 | 0.357 | 0.665 | 0.057 | 0.028 | 0.650 | 0.651 | 0.017 | 0.016 | 0.650 | 0.651 | 0.017 | 0.016 |
| MAL3\_4 | 0.745 | 0.598 | 0.032 | 0.027 | 0.734 | 0.624 | 0.031 | 0.029 | 0.439 | 0.625 | 0.063 | 0.030 | 0.627 | 0.633 | 0.017 | 0.017 | 0.627 | 0.633 | 0.017 | 0.017 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T3 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL5\_1 | 0.678 | 0.716 | 0.026 | 0.023 | 0.686 | 0.690 | 0.024 | 0.022 | 0.535 | 0.686 | 0.050 | 0.022 | 0.770 | 0.761 | 0.014 | 0.013 | 0.770 | 0.761 | 0.014 | 0.013 |
| MAL5\_2 | 0.758 | 0.792 | 0.032 | 0.026 | 0.768 | 0.753 | 0.026 | 0.023 | 0.479 | 0.760 | 0.047 | 0.022 | 0.735 | 0.744 | 0.013 | 0.013 | 0.735 | 0.744 | 0.013 | 0.013 |
| MAL5\_3 | 0.816 | 0.793 | 0.028 | 0.020 | 0.809 | 0.804 | 0.024 | 0.022 | 0.436 | 0.810 | 0.042 | 0.020 | 0.705 | 0.710 | 0.013 | 0.013 | 0.705 | 0.710 | 0.013 | 0.013 |
| MAL5\_4 | 0.746 | 0.709 | 0.027 | 0.022 | 0.736 | 0.733 | 0.026 | 0.023 | 0.504 | 0.731 | 0.048 | 0.023 | 0.686 | 0.694 | 0.014 | 0.014 | 0.686 | 0.694 | 0.014 | 0.014 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T4 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL9\_1 | 0.699 | 0.816 | 0.041 | 0.039 | 0.707 | 0.797 | 0.041 | 0.042 | 0.574 | 0.806 | 0.058 | 0.041 | 0.783 | 0.740 | 0.014 | 0.018 | 0.783 | 0.740 | 0.014 | 0.018 |
| MAL9\_2 | 0.840 | 0.762 | 0.042 | 0.045 | 0.844 | 0.718 | 0.042 | 0.046 | 0.575 | 0.726 | 0.061 | 0.047 | 0.768 | 0.731 | 0.014 | 0.018 | 0.768 | 0.731 | 0.014 | 0.018 |
| MAL9\_3 | 0.770 | 0.692 | 0.045 | 0.046 | 0.763 | 0.694 | 0.045 | 0.049 | 0.597 | 0.688 | 0.061 | 0.051 | 0.754 | 0.711 | 0.015 | 0.019 | 0.754 | 0.711 | 0.015 | 0.019 |
| MAL9\_4 | 0.733 | 0.674 | 0.060 | 0.060 | 0.724 | 0.707 | 0.061 | 0.063 | 0.665 | 0.696 | 0.065 | 0.064 | 0.745 | 0.702 | 0.015 | 0.020 | 0.745 | 0.702 | 0.015 | 0.020 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T5 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL12\_1 | 0.616 | 0.687 | 0.047 | 0.032 | 0.628 | 0.653 | 0.046 | 0.033 | 0.653 | 0.651 | 0.072 | 0.032 | 0.729 | 0.764 | 0.020 | 0.015 | 0.729 | 0.764 | 0.020 | 0.015 |
| MAL12\_2 | 0.731 | 0.798 | 0.051 | 0.037 | 0.743 | 0.741 | 0.047 | 0.036 | 0.582 | 0.772 | 0.072 | 0.034 | 0.696 | 0.749 | 0.020 | 0.015 | 0.696 | 0.749 | 0.020 | 0.015 |
| MAL12\_3 | 0.838 | 0.775 | 0.042 | 0.030 | 0.831 | 0.785 | 0.040 | 0.032 | 0.327 | 0.786 | 0.062 | 0.031 | 0.666 | 0.717 | 0.020 | 0.016 | 0.666 | 0.717 | 0.020 | 0.016 |
| MAL12\_4 | 0.770 | 0.693 | 0.048 | 0.035 | 0.760 | 0.727 | 0.048 | 0.036 | 0.475 | 0.718 | 0.083 | 0.037 | 0.648 | 0.703 | 0.020 | 0.017 | 0.648 | 0.703 | 0.020 | 0.017 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T6 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL14\_1 | 0.677 | 0.720 | 0.028 | 0.024 | 0.687 | 0.697 | 0.027 | 0.025 | 0.474 | 0.687 | 0.047 | 0.023 | 0.715 | 0.769 | 0.018 | 0.013 | 0.715 | 0.769 | 0.018 | 0.013 |
| MAL14\_2 | 0.749 | 0.750 | 0.031 | 0.032 | 0.757 | 0.706 | 0.029 | 0.027 | 0.597 | 0.726 | 0.057 | 0.025 | 0.674 | 0.752 | 0.017 | 0.013 | 0.674 | 0.752 | 0.017 | 0.013 |
| MAL14\_3 | 0.790 | 0.768 | 0.027 | 0.023 | 0.782 | 0.774 | 0.026 | 0.025 | 0.462 | 0.780 | 0.042 | 0.022 | 0.639 | 0.716 | 0.016 | 0.013 | 0.639 | 0.716 | 0.016 | 0.013 |
| MAL14\_4 | 0.744 | 0.671 | 0.029 | 0.024 | 0.734 | 0.695 | 0.028 | 0.025 | 0.559 | 0.692 | 0.047 | 0.025 | 0.618 | 0.700 | 0.016 | 0.014 | 0.618 | 0.700 | 0.016 | 0.014 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T7 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL16\_1 | 0.563 | 0.696 | 0.055 | 0.044 | 0.572 | 0.654 | 0.053 | 0.046 | 0.693 | 0.653 | 0.080 | 0.045 | 0.768 | 0.657 | 0.022 | 0.027 | 0.768 | 0.657 | 0.022 | 0.027 |
| MAL16\_2 | 0.749 | 0.695 | 0.051 | 0.055 | 0.760 | 0.635 | 0.049 | 0.052 | 0.569 | 0.643 | 0.079 | 0.052 | 0.723 | 0.634 | 0.022 | 0.027 | 0.723 | 0.634 | 0.022 | 0.027 |
| MAL16\_3 | 0.774 | 0.722 | 0.042 | 0.036 | 0.767 | 0.718 | 0.041 | 0.041 | 0.288 | 0.724 | 0.073 | 0.038 | 0.685 | 0.589 | 0.021 | 0.026 | 0.685 | 0.589 | 0.021 | 0.026 |
| MAL19\_4 | 0.767 | 0.635 | 0.045 | 0.041 | 0.756 | 0.669 | 0.045 | 0.043 | 0.267 | 0.668 | 0.082 | 0.044 | 0.662 | 0.570 | 0.021 | 0.027 | 0.662 | 0.570 | 0.021 | 0.027 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T8 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL20\_1 | 0.686 | 0.748 | 0.049 | 0.037 | 0.695 | 0.721 | 0.048 | 0.038 | 0.277 | 0.738 | 0.089 | 0.037 | 0.757 | 0.671 | 0.025 | 0.026 | 0.757 | 0.671 | 0.025 | 0.026 |
| MAL20\_2 | 0.739 | 0.769 | 0.057 | 0.044 | 0.748 | 0.730 | 0.054 | 0.047 | 0.117 | 0.701 | 0.094 | 0.045 | 0.701 | 0.646 | 0.023 | 0.025 | 0.701 | 0.646 | 0.023 | 0.025 |
| MAL20\_3 | 0.796 | 0.662 | 0.037 | 0.033 | 0.789 | 0.651 | 0.036 | 0.037 | 0.347 | 0.663 | 0.079 | 0.034 | 0.656 | 0.596 | 0.021 | 0.024 | 0.656 | 0.596 | 0.021 | 0.024 |
| MAL20\_4 | 0.703 | 0.565 | 0.037 | 0.035 | 0.692 | 0.589 | 0.038 | 0.038 | 0.433 | 0.582 | 0.082 | 0.038 | 0.630 | 0.576 | 0.022 | 0.024 | 0.630 | 0.576 | 0.022 | 0.024 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T9 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL21\_1 | 0.625 | 0.636 | 0.044 | 0.037 | 0.633 | 0.602 | 0.043 | 0.038 | 0.611 | 0.605 | 0.077 | 0.038 | 0.711 | 0.685 | 0.018 | 0.018 | 0.711 | 0.685 | 0.018 | 0.018 |
| MAL21\_2 | 0.671 | 0.701 | 0.054 | 0.042 | 0.682 | 0.643 | 0.051 | 0.043 | 0.564 | 0.634 | 0.080 | 0.043 | 0.682 | 0.670 | 0.018 | 0.018 | 0.682 | 0.670 | 0.018 | 0.018 |
| MAL21\_3 | 0.810 | 0.772 | 0.044 | 0.034 | 0.802 | 0.780 | 0.042 | 0.038 | 0.425 | 0.785 | 0.072 | 0.036 | 0.656 | 0.638 | 0.018 | 0.018 | 0.656 | 0.638 | 0.018 | 0.018 |
| MAL21\_4 | 0.688 | 0.621 | 0.052 | 0.039 | 0.676 | 0.652 | 0.052 | 0.042 | 0.313 | 0.655 | 0.083 | 0.044 | 0.640 | 0.624 | 0.018 | 0.019 | 0.640 | 0.624 | 0.018 | 0.019 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O1 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL2\_1 | 0.288 | 0.252 | 0.042 | 0.037 | 0.288 | 0.250 | 0.042 | 0.037 | 0.592 | 0.290 | 0.030 | 0.021 | 0.260 | 0.379 | 0.030 | 0.020 | 0.260 | 0.379 | 0.030 | 0.020 |
| MAL3\_1 | 0.488 | 0.447 | 0.044 | 0.041 | 0.476 | 0.481 | 0.042 | 0.038 | 0.669 | 0.465 | 0.039 | 0.028 | 0.371 | 0.517 | 0.039 | 0.026 | 0.371 | 0.517 | 0.039 | 0.026 |
| MAL5\_1 | 0.460 | 0.379 | 0.040 | 0.038 | 0.452 | 0.407 | 0.039 | 0.036 | 0.668 | 0.418 | 0.032 | 0.026 | 0.311 | 0.444 | 0.033 | 0.022 | 0.311 | 0.444 | 0.033 | 0.022 |
| MAL9\_1 | 0.341 | 0.358 | 0.052 | 0.053 | 0.332 | 0.394 | 0.054 | 0.051 | 0.577 | 0.327 | 0.044 | 0.040 | 0.200 | 0.332 | 0.026 | 0.027 | 0.200 | 0.332 | 0.026 | 0.027 |
| MAL12\_1 | 0.545 | 0.381 | 0.055 | 0.046 | 0.530 | 0.440 | 0.056 | 0.043 | 0.607 | 0.435 | 0.056 | 0.031 | 0.316 | 0.425 | 0.036 | 0.024 | 0.316 | 0.425 | 0.036 | 0.024 |
| MAL14\_1 | 0.444 | 0.340 | 0.040 | 0.039 | 0.432 | 0.375 | 0.040 | 0.036 | 0.655 | 0.422 | 0.031 | 0.025 | 0.357 | 0.451 | 0.038 | 0.021 | 0.357 | 0.451 | 0.038 | 0.021 |
| MAL16\_1 | 0.481 | 0.501 | 0.066 | 0.057 | 0.477 | 0.561 | 0.066 | 0.053 | 0.573 | 0.574 | 0.063 | 0.040 | 0.361 | 0.569 | 0.040 | 0.030 | 0.361 | 0.569 | 0.040 | 0.030 |
| MAL20\_1 | 0.525 | 0.502 | 0.065 | 0.053 | 0.524 | 0.525 | 0.065 | 0.051 | 0.812 | 0.441 | 0.033 | 0.035 | 0.407 | 0.594 | 0.045 | 0.030 | 0.407 | 0.594 | 0.045 | 0.030 |
| MAL21\_1 | 0.427 | 0.434 | 0.051 | 0.046 | 0.421 | 0.473 | 0.050 | 0.045 | 0.548 | 0.464 | 0.048 | 0.033 | 0.296 | 0.448 | 0.034 | 0.026 | 0.296 | 0.448 | 0.034 | 0.026 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O2 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL2\_2 | 0.240 | 0.268 | 0.052 | 0.047 | 0.236 | 0.283 | 0.044 | 0.033 | 0.580 | 0.298 | 0.032 | 0.024 | 0.355 | 0.412 | 0.022 | 0.019 | 0.355 | 0.412 | 0.022 | 0.019 |
| MAL3\_2 | 0.527 | 0.414 | 0.056 | 0.055 | 0.521 | 0.468 | 0.053 | 0.044 | 0.727 | 0.480 | 0.035 | 0.031 | 0.491 | 0.556 | 0.027 | 0.022 | 0.491 | 0.556 | 0.027 | 0.022 |
| MAL5\_2 | 0.484 | 0.365 | 0.052 | 0.049 | 0.470 | 0.413 | 0.048 | 0.040 | 0.716 | 0.400 | 0.029 | 0.029 | 0.419 | 0.481 | 0.024 | 0.021 | 0.419 | 0.481 | 0.024 | 0.021 |
| MAL9\_2 | 0.253 | 0.367 | 0.070 | 0.068 | 0.244 | 0.423 | 0.066 | 0.062 | 0.602 | 0.409 | 0.047 | 0.046 | 0.276 | 0.363 | 0.024 | 0.027 | 0.276 | 0.363 | 0.024 | 0.027 |
| MAL12\_2 | 0.477 | 0.412 | 0.071 | 0.058 | 0.458 | 0.495 | 0.067 | 0.049 | 0.672 | 0.391 | 0.050 | 0.037 | 0.426 | 0.461 | 0.027 | 0.023 | 0.426 | 0.461 | 0.027 | 0.023 |
| MAL14\_2 | 0.325 | 0.453 | 0.053 | 0.048 | 0.310 | 0.490 | 0.050 | 0.040 | 0.619 | 0.428 | 0.040 | 0.029 | 0.474 | 0.489 | 0.026 | 0.020 | 0.474 | 0.489 | 0.026 | 0.020 |
| MAL16\_2 | 0.353 | 0.566 | 0.074 | 0.069 | 0.338 | 0.612 | 0.072 | 0.061 | 0.674 | 0.606 | 0.048 | 0.046 | 0.480 | 0.608 | 0.029 | 0.027 | 0.480 | 0.608 | 0.029 | 0.027 |
| MAL20\_2 | 0.423 | 0.314 | 0.082 | 0.079 | 0.412 | 0.390 | 0.078 | 0.068 | 0.859 | 0.494 | 0.026 | 0.041 | 0.532 | 0.633 | 0.030 | 0.026 | 0.532 | 0.633 | 0.030 | 0.026 |
| MAL21\_2 | 0.500 | 0.350 | 0.072 | 0.063 | 0.489 | 0.439 | 0.071 | 0.056 | 0.597 | 0.483 | 0.047 | 0.039 | 0.400 | 0.485 | 0.026 | 0.024 | 0.400 | 0.485 | 0.026 | 0.024 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O3 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL2\_3 | 0.396 | 0.378 | 0.043 | 0.030 | 0.404 | 0.406 | 0.035 | 0.026 | 0.586 | 0.413 | 0.031 | 0.023 | 0.421 | 0.476 | 0.018 | 0.017 | 0.421 | 0.476 | 0.018 | 0.017 |
| MAL3\_3 | 0.488 | 0.617 | 0.051 | 0.030 | 0.493 | 0.609 | 0.045 | 0.033 | 0.772 | 0.600 | 0.026 | 0.026 | 0.568 | 0.625 | 0.020 | 0.018 | 0.568 | 0.625 | 0.020 | 0.018 |
| MAL5\_3 | 0.445 | 0.463 | 0.047 | 0.032 | 0.453 | 0.444 | 0.040 | 0.036 | 0.746 | 0.427 | 0.024 | 0.026 | 0.492 | 0.549 | 0.020 | 0.018 | 0.492 | 0.549 | 0.020 | 0.018 |
| MAL9\_3 | 0.318 | 0.485 | 0.060 | 0.051 | 0.325 | 0.496 | 0.057 | 0.054 | 0.604 | 0.514 | 0.044 | 0.043 | 0.332 | 0.423 | 0.024 | 0.028 | 0.332 | 0.423 | 0.024 | 0.028 |
| MAL12\_3 | 0.451 | 0.458 | 0.059 | 0.038 | 0.457 | 0.459 | 0.055 | 0.041 | 0.793 | 0.449 | 0.030 | 0.033 | 0.499 | 0.528 | 0.023 | 0.022 | 0.499 | 0.528 | 0.023 | 0.022 |
| MAL14\_3 | 0.428 | 0.477 | 0.044 | 0.031 | 0.439 | 0.474 | 0.040 | 0.034 | 0.698 | 0.460 | 0.027 | 0.025 | 0.550 | 0.557 | 0.020 | 0.017 | 0.550 | 0.557 | 0.020 | 0.017 |
| MAL16\_3 | 0.511 | 0.585 | 0.054 | 0.040 | 0.520 | 0.606 | 0.051 | 0.044 | 0.798 | 0.600 | 0.030 | 0.038 | 0.556 | 0.675 | 0.023 | 0.023 | 0.556 | 0.675 | 0.023 | 0.023 |
| MAL20\_3 | 0.477 | 0.595 | 0.056 | 0.037 | 0.488 | 0.617 | 0.051 | 0.039 | 0.821 | 0.595 | 0.030 | 0.030 | 0.610 | 0.699 | 0.022 | 0.020 | 0.610 | 0.699 | 0.022 | 0.020 |
| MAL21\_3 | 0.368 | 0.452 | 0.062 | 0.039 | 0.373 | 0.461 | 0.055 | 0.042 | 0.670 | 0.456 | 0.037 | 0.036 | 0.472 | 0.553 | 0.022 | 0.022 | 0.472 | 0.553 | 0.022 | 0.022 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O4 BY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAL2\_4 | 0.474 | 0.478 | 0.036 | 0.027 | 0.490 | 0.451 | 0.035 | 0.029 | 0.648 | 0.416 | 0.028 | 0.023 | 0.459 | 0.502 | 0.019 | 0.018 | 0.459 | 0.502 | 0.019 | 0.018 |
| MAL3\_4 | 0.550 | 0.648 | 0.040 | 0.026 | 0.557 | 0.631 | 0.036 | 0.029 | 0.773 | 0.633 | 0.029 | 0.024 | 0.608 | 0.651 | 0.019 | 0.018 | 0.608 | 0.651 | 0.019 | 0.018 |
| MAL5\_4 | 0.494 | 0.518 | 0.039 | 0.027 | 0.501 | 0.498 | 0.037 | 0.029 | 0.745 | 0.502 | 0.027 | 0.024 | 0.532 | 0.575 | 0.020 | 0.018 | 0.532 | 0.575 | 0.020 | 0.018 |
| MAL9\_4 | 0.340 | 0.495 | 0.065 | 0.062 | 0.349 | 0.485 | 0.064 | 0.065 | 0.594 | 0.515 | 0.049 | 0.049 | 0.364 | 0.447 | 0.025 | 0.030 | 0.364 | 0.447 | 0.025 | 0.030 |
| MAL12\_4 | 0.404 | 0.504 | 0.056 | 0.037 | 0.415 | 0.484 | 0.053 | 0.039 | 0.767 | 0.512 | 0.041 | 0.033 | 0.539 | 0.554 | 0.022 | 0.022 | 0.539 | 0.554 | 0.022 | 0.022 |
| MAL14\_4 | 0.446 | 0.552 | 0.039 | 0.026 | 0.458 | 0.537 | 0.036 | 0.028 | 0.686 | 0.535 | 0.030 | 0.023 | 0.591 | 0.583 | 0.019 | 0.018 | 0.591 | 0.583 | 0.019 | 0.018 |
| MAL19\_4 | 0.538 | 0.679 | 0.049 | 0.036 | 0.549 | 0.665 | 0.047 | 0.039 | 0.835 | 0.651 | 0.027 | 0.036 | 0.596 | 0.701 | 0.022 | 0.023 | 0.596 | 0.701 | 0.022 | 0.023 |
| MAL20\_4 | 0.576 | 0.640 | 0.045 | 0.031 | 0.587 | 0.628 | 0.043 | 0.034 | 0.813 | 0.651 | 0.034 | 0.028 | 0.650 | 0.723 | 0.021 | 0.020 | 0.650 | 0.723 | 0.021 | 0.020 |
| MAL21\_4 | 0.535 | 0.594 | 0.055 | 0.035 | 0.542 | 0.585 | 0.053 | 0.038 | 0.745 | 0.562 | 0.033 | 0.034 | 0.511 | 0.579 | 0.022 | 0.022 | 0.511 | 0.579 | 0.022 | 0.022 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O4 ON |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O3 | 0.161 | 0.365 | 0.088 | 0.044 | 0.200 | 0.324 | 0.059 | 0.050 | 0.743 | 0.316 | 0.027 | 0.046 | 0.437 | 0.453 | 0.035 | 0.032 | 0.437 | 0.453 | 0.035 | 0.032 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O3 ON |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O2 | 0.170 | 0.167 | 0.121 | 0.094 | 0.166 | 0.269 | 0.076 | 0.065 | 0.812 | 0.238 | 0.019 | 0.043 | 0.397 | 0.406 | 0.036 | 0.034 | 0.397 | 0.406 | 0.036 | 0.034 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O2 ON |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O1 | 0.319 | 0.104 | 0.085 | 0.120 | 0.277 | 0.307 | 0.063 | 0.056 | 0.784 | 0.290 | 0.022 | 0.040 | 0.344 | 0.439 | 0.042 | 0.033 | 0.344 | 0.439 | 0.042 | 0.033 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O1 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| O2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| O3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| O4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O2 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| O3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| O4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O3 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| O4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| O4 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| T9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T2 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.679 | 0.683 | 0.027 | 0.023 | 0.678 | 0.682 | 0.027 | 0.024 | 0.326 | 0.679 | 0.084 | 0.023 | 0.735 | 0.579 | 0.031 | 0.025 | 0.735 | 0.579 | 0.031 | 0.025 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T3 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.523 | 0.527 | 0.027 | 0.023 | 0.522 | 0.524 | 0.027 | 0.024 | -0.001 | 0.525 | 0.100 | 0.023 | 0.540 | 0.434 | 0.029 | 0.025 | 0.540 | 0.434 | 0.029 | 0.025 |
| T2 | 0.760 | 0.741 | 0.022 | 0.020 | 0.761 | 0.740 | 0.021 | 0.021 | 0.472 | 0.742 | 0.077 | 0.020 | 0.819 | 0.667 | 0.023 | 0.022 | 0.819 | 0.667 | 0.023 | 0.022 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T4 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.389 | 0.442 | 0.041 | 0.035 | 0.388 | 0.432 | 0.041 | 0.036 | -0.083 | 0.433 | 0.090 | 0.036 | 0.400 | 0.397 | 0.044 | 0.038 | 0.400 | 0.397 | 0.044 | 0.038 |
| T2 | 0.640 | 0.620 | 0.038 | 0.032 | 0.641 | 0.606 | 0.038 | 0.034 | 0.277 | 0.615 | 0.099 | 0.033 | 0.667 | 0.609 | 0.041 | 0.035 | 0.667 | 0.609 | 0.041 | 0.035 |
| T3 | 0.432 | 0.459 | 0.040 | 0.036 | 0.434 | 0.444 | 0.039 | 0.037 | -0.095 | 0.452 | 0.109 | 0.036 | 0.438 | 0.432 | 0.039 | 0.038 | 0.438 | 0.432 | 0.039 | 0.038 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T5 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.507 | 0.422 | 0.040 | 0.031 | 0.506 | 0.413 | 0.039 | 0.033 | -0.048 | 0.416 | 0.116 | 0.032 | 0.539 | 0.322 | 0.046 | 0.033 | 0.539 | 0.322 | 0.046 | 0.033 |
| T2 | 0.735 | 0.630 | 0.032 | 0.028 | 0.737 | 0.613 | 0.032 | 0.030 | 0.398 | 0.624 | 0.103 | 0.029 | 0.826 | 0.540 | 0.037 | 0.031 | 0.826 | 0.540 | 0.037 | 0.031 |
| T3 | 0.720 | 0.700 | 0.030 | 0.025 | 0.721 | 0.694 | 0.030 | 0.026 | 0.370 | 0.700 | 0.089 | 0.025 | 0.788 | 0.628 | 0.032 | 0.026 | 0.788 | 0.628 | 0.032 | 0.026 |
| T4 | 0.632 | 0.453 | 0.046 | 0.045 | 0.633 | 0.429 | 0.046 | 0.048 | 0.246 | 0.445 | 0.101 | 0.046 | 0.671 | 0.423 | 0.053 | 0.047 | 0.671 | 0.423 | 0.053 | 0.047 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T6 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.476 | 0.504 | 0.030 | 0.024 | 0.474 | 0.498 | 0.030 | 0.025 | -0.020 | 0.501 | 0.094 | 0.025 | 0.489 | 0.391 | 0.036 | 0.026 | 0.489 | 0.391 | 0.036 | 0.026 |
| T2 | 0.677 | 0.679 | 0.027 | 0.022 | 0.678 | 0.672 | 0.027 | 0.023 | 0.299 | 0.676 | 0.094 | 0.022 | 0.719 | 0.577 | 0.032 | 0.025 | 0.719 | 0.577 | 0.032 | 0.025 |
| T3 | 0.669 | 0.676 | 0.023 | 0.019 | 0.669 | 0.671 | 0.023 | 0.020 | 0.292 | 0.676 | 0.081 | 0.019 | 0.709 | 0.588 | 0.026 | 0.021 | 0.709 | 0.588 | 0.026 | 0.021 |
| T4 | 0.742 | 0.670 | 0.033 | 0.030 | 0.742 | 0.660 | 0.033 | 0.031 | 0.514 | 0.668 | 0.068 | 0.030 | 0.786 | 0.639 | 0.038 | 0.031 | 0.786 | 0.639 | 0.038 | 0.031 |
| T5 | 0.661 | 0.609 | 0.038 | 0.026 | 0.662 | 0.596 | 0.037 | 0.028 | 0.246 | 0.609 | 0.101 | 0.027 | 0.723 | 0.512 | 0.045 | 0.028 | 0.723 | 0.512 | 0.045 | 0.028 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T7 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.525 | 0.500 | 0.041 | 0.035 | 0.521 | 0.490 | 0.041 | 0.036 | -0.115 | 0.491 | 0.128 | 0.036 | 0.505 | 0.412 | 0.046 | 0.041 | 0.505 | 0.412 | 0.046 | 0.041 |
| T2 | 0.644 | 0.674 | 0.040 | 0.031 | 0.643 | 0.657 | 0.040 | 0.033 | 0.090 | 0.662 | 0.146 | 0.032 | 0.631 | 0.622 | 0.043 | 0.038 | 0.631 | 0.622 | 0.043 | 0.038 |
| T3 | 0.647 | 0.621 | 0.035 | 0.030 | 0.646 | 0.614 | 0.035 | 0.031 | 0.123 | 0.619 | 0.119 | 0.030 | 0.631 | 0.577 | 0.037 | 0.035 | 0.631 | 0.577 | 0.037 | 0.035 |
| T4 | 0.654 | 0.551 | 0.049 | 0.045 | 0.655 | 0.529 | 0.048 | 0.047 | 0.301 | 0.538 | 0.110 | 0.046 | 0.636 | 0.575 | 0.050 | 0.052 | 0.636 | 0.575 | 0.050 | 0.052 |
| T5 | 0.694 | 0.711 | 0.041 | 0.033 | 0.694 | 0.694 | 0.041 | 0.035 | 0.231 | 0.706 | 0.113 | 0.034 | 0.714 | 0.676 | 0.046 | 0.039 | 0.714 | 0.676 | 0.046 | 0.039 |
| T6 | 0.670 | 0.645 | 0.035 | 0.032 | 0.669 | 0.633 | 0.035 | 0.034 | 0.252 | 0.642 | 0.104 | 0.032 | 0.662 | 0.579 | 0.039 | 0.037 | 0.662 | 0.579 | 0.039 | 0.037 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T8 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.692 | 0.655 | 0.034 | 0.029 | 0.689 | 0.649 | 0.034 | 0.030 | 0.289 | 0.649 | 0.118 | 0.030 | 0.727 | 0.541 | 0.041 | 0.034 | 0.727 | 0.541 | 0.041 | 0.034 |
| T2 | 0.769 | 0.761 | 0.032 | 0.027 | 0.769 | 0.751 | 0.032 | 0.028 | 0.312 | 0.757 | 0.156 | 0.028 | 0.799 | 0.660 | 0.037 | 0.034 | 0.799 | 0.660 | 0.037 | 0.034 |
| T3 | 0.634 | 0.604 | 0.036 | 0.032 | 0.634 | 0.593 | 0.035 | 0.033 | -0.070 | 0.598 | 0.182 | 0.033 | 0.647 | 0.506 | 0.039 | 0.038 | 0.647 | 0.506 | 0.039 | 0.038 |
| T4 | 0.688 | 0.662 | 0.044 | 0.039 | 0.689 | 0.648 | 0.044 | 0.041 | 0.352 | 0.662 | 0.130 | 0.040 | 0.704 | 0.667 | 0.049 | 0.046 | 0.704 | 0.667 | 0.049 | 0.046 |
| T5 | 0.667 | 0.616 | 0.043 | 0.036 | 0.666 | 0.600 | 0.043 | 0.038 | -0.048 | 0.609 | 0.204 | 0.037 | 0.703 | 0.515 | 0.051 | 0.044 | 0.703 | 0.515 | 0.051 | 0.044 |
| T6 | 0.858 | 0.818 | 0.026 | 0.024 | 0.857 | 0.814 | 0.026 | 0.025 | 0.731 | 0.818 | 0.104 | 0.025 | 0.896 | 0.713 | 0.031 | 0.028 | 0.896 | 0.713 | 0.031 | 0.028 |
| T7 | 0.815 | 0.805 | 0.036 | 0.032 | 0.813 | 0.787 | 0.036 | 0.034 | 0.465 | 0.792 | 0.162 | 0.033 | 0.804 | 0.733 | 0.041 | 0.043 | 0.804 | 0.733 | 0.041 | 0.043 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T9 WITH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 | 0.535 | 0.501 | 0.039 | 0.032 | 0.534 | 0.495 | 0.038 | 0.033 | 0.102 | 0.495 | 0.100 | 0.032 | 0.560 | 0.406 | 0.042 | 0.035 | 0.560 | 0.406 | 0.042 | 0.035 |
| T2 | 0.580 | 0.608 | 0.041 | 0.030 | 0.582 | 0.593 | 0.040 | 0.032 | 0.140 | 0.596 | 0.121 | 0.031 | 0.620 | 0.526 | 0.043 | 0.035 | 0.620 | 0.526 | 0.043 | 0.035 |
| T3 | 0.614 | 0.578 | 0.035 | 0.030 | 0.615 | 0.570 | 0.035 | 0.032 | 0.198 | 0.574 | 0.104 | 0.031 | 0.641 | 0.505 | 0.037 | 0.034 | 0.641 | 0.505 | 0.037 | 0.034 |
| T4 | 0.578 | 0.478 | 0.047 | 0.045 | 0.579 | 0.453 | 0.047 | 0.047 | 0.243 | 0.461 | 0.095 | 0.047 | 0.593 | 0.458 | 0.049 | 0.050 | 0.593 | 0.458 | 0.049 | 0.050 |
| T5 | 0.701 | 0.699 | 0.040 | 0.030 | 0.704 | 0.683 | 0.040 | 0.032 | 0.407 | 0.690 | 0.093 | 0.032 | 0.778 | 0.635 | 0.047 | 0.035 | 0.778 | 0.635 | 0.047 | 0.035 |
| T6 | 0.601 | 0.527 | 0.038 | 0.031 | 0.602 | 0.511 | 0.037 | 0.033 | 0.232 | 0.517 | 0.095 | 0.032 | 0.632 | 0.433 | 0.043 | 0.034 | 0.632 | 0.433 | 0.043 | 0.034 |
| T7 | 0.692 | 0.698 | 0.046 | 0.035 | 0.693 | 0.674 | 0.045 | 0.037 | 0.361 | 0.678 | 0.106 | 0.036 | 0.693 | 0.670 | 0.048 | 0.044 | 0.693 | 0.670 | 0.048 | 0.044 |
| T8 | 0.674 | 0.610 | 0.043 | 0.038 | 0.675 | 0.591 | 0.043 | 0.040 | 0.201 | 0.598 | 0.166 | 0.039 | 0.698 | 0.508 | 0.048 | 0.047 | 0.698 | 0.508 | 0.048 | 0.047 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \*Variable name “mali\_t” indicate Malaise Inventory item *i* at time *t*; BCS, British Cohort Study; NCDS, National Child Development Study T= trait variable; O=residual variable; BY is used to create a latent variable; ON indicate regression; WITH indicate correlation. | | | | | | | | | | | | | | | | | | | | |