

| Source | DF | Type III SS | Mean Square | F Value | Pr > F |
|--------|----|-------------|-------------|---------|--------|
| cmc | 1 | 1.26881115 | 1.26881115 | 0.90 | 0.4129 |
| fr | 1 | 0.72893755 | 0.72893755 | 0.52 | 0.5241 |
| pc | 1 | 2.91454092 | 2.91454092 | 2.07 | 0.2461 |
| ptype | 2 | 1.70228479 | 0.85114239 | 0.60 | 0.6022 |
| cmc*fr | 1 | 0.61983545 | 0.61983545 | 0.44 | 0.5548 |
| cmc*pc | 1 | 0.38236075 | 0.38236075 | 0.27 | 0.6386 |
| fr*pc | 1 | 0.08799483 | 0.08799483 | 0.06 | 0.8189 |

| Obs | cmc | fr | pc | ptype | expt | responses | | | | | | | | | | | | | | | | | |
|-----|-----|----|----|-------|---------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | -1 | -1 | -1 | m | locurve | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | -1 | -1 | -1 | p | locurve | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | -1 | -1 | 1 | a | locurve | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | -1 | 1 | -1 | a | locurve | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | -1 | 1 | 1 | m | locurve | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | -1 | 1 | 1 | p | locurve | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 1 | -1 | -1 | a | locurve | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 1 | -1 | 1 | m | locurve | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | 1 | -1 | 1 | p | locurve | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | 1 | 1 | -1 | m | locurve | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | 1 | 1 | -1 | p | locurve | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | 1 | 1 | 1 | a | locurve | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | -1 | -1 | -1 | a | lopitch | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | -1 | -1 | 1 | m | lopitch | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | -1 | -1 | 1 | p | lopitch | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | -1 | 1 | -1 | m | lopitch | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17 | -1 | 1 | -1 | p | lopitch | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18 | -1 | 1 | 1 | a | lopitch | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19 | 1 | -1 | -1 | m | lopitch | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20 | 1 | -1 | -1 | p | lopitch | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | 1 | -1 | 1 | a | lopitch | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22 | 1 | 1 | -1 | a | lopitch | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 23 | 1 | 1 | 1 | m | lopitch | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24 | 1 | 1 | 1 | p | lopitch | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

| Class | Levels | Values |
|-------|--------|-----------------|
| cmc | 2 | -1 1 |
| fr | 2 | -1 1 |
| pc | 2 | -1 1 |
| ptype | 3 | a m p |
| expt | 2 | locurve lopitch |

| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
|-----------------|----|----------------|-------------|---------|--------|
| Model | 20 | 16.91853684 | 0.84592684 | 0.49 | 0.8576 |
| Error | 3 | 5.14495117 | 1.71498372 | | |
| Corrected Total | 23 | 22.06348801 | | | |

| Source | DF | Type I SS | Mean Square | F Value | Pr > F |
|------------|----|------------|-------------|---------|--------|
| cmc | 1 | 2.37561542 | 2.37561542 | 1.39 | 0.3241 |
| fr | 1 | 0.94379470 | 0.94379470 | 0.55 | 0.5120 |
| pc | 1 | 0.91184135 | 0.91184135 | 0.53 | 0.5187 |
| expt | 1 | 0.00000000 | 0.00000000 | 0.00 | 1.0000 |
| ptype | 2 | 0.46933739 | 0.23466870 | 0.14 | 0.8773 |
| cmc*fr | 1 | 0.10715351 | 0.10715351 | 0.06 | 0.8188 |
| cmc*pc | 1 | 0.03237025 | 0.03237025 | 0.02 | 0.8994 |
| cmc*expt | 1 | 0.00000000 | 0.00000000 | 0.00 | 1.0000 |
| fr*pc | 1 | 1.35993596 | 1.35993596 | 0.79 | 0.4388 |
| fr*expt | 1 | 0.00404628 | 0.00404628 | 0.00 | 0.9643 |
| pc*expt | 1 | 1.96426022 | 1.96426022 | 1.15 | 0.3630 |
| cmc*ptype | 2 | 0.56962763 | 0.28481381 | 0.17 | 0.8543 |
| fr*ptype | 2 | 1.58820746 | 0.79410373 | 0.46 | 0.6679 |
| pc*ptype | 2 | 0.49617083 | 0.24808542 | 0.14 | 0.8710 |
| ptype*expt | 2 | 6.09617584 | 3.04808792 | 1.78 | 0.3096 |

| Source | DF | Type III SS | Mean Square | F Value | Pr > F |
|------------|----|-------------|-------------|---------|--------|
| cmc | 1 | 2.37561542 | 2.37561542 | 1.39 | 0.3241 |
| fr | 1 | 0.94379470 | 0.94379470 | 0.55 | 0.5120 |
| pc | 1 | 0.91184135 | 0.91184135 | 0.53 | 0.5187 |
| expt | 1 | 0.00000000 | 0.00000000 | 0.00 | 1.0000 |
| ptype | 2 | 0.46933739 | 0.23466870 | 0.14 | 0.8773 |
| cmc*fr | 1 | 0.60185881 | 0.60185881 | 0.35 | 0.5953 |
| cmc*pc | 1 | 0.03641653 | 0.03641653 | 0.02 | 0.8934 |
| cmc*expt | 1 | 0.15110400 | 0.15110400 | 0.09 | 0.7860 |
| fr*pc | 1 | 1.35993596 | 1.35993596 | 0.79 | 0.4388 |
| fr*expt | 1 | 0.00404628 | 0.00404628 | 0.00 | 0.9643 |
| pc*expt | 1 | 1.96426022 | 1.96426022 | 1.15 | 0.3630 |
| cmc*ptype | 2 | 0.56962763 | 0.28481381 | 0.17 | 0.8543 |
| fr*ptype | 2 | 1.58820746 | 0.79410373 | 0.46 | 0.6679 |
| pc*ptype | 2 | 0.49617083 | 0.24808542 | 0.14 | 0.8710 |
| ptype*expt | 2 | 6.09617584 | 3.04808792 | 1.78 | 0.3096 |