**Linear Mixed-effect Model results**

**> summary(pRT2)**

Linear mixed model fit by REML. t-tests use Satterthwaite's method

[lmerModLmerTest]

Formula: probeRT ~ RC + CE + RC \* CE + (1 + RC + CE | Subject)

Data: probeRTdata

REML criterion at convergence: 63510.2

Scaled residuals:

Min 1Q Median 3Q Max

-2.4113 -0.6531 -0.1725 0.4632 5.1066

Random effects:

Groups Name Variance Std.Dev. Corr

Subject (Intercept) 3.458e+04 185.969

RC1 1.489e+02 12.204 -1.00

CE1 2.568e+00 1.603 1.00 -1.00

Residual 1.150e+05 339.078

Number of obs: 4377, groups: Subject, 30

Fixed effects:

Estimate Std. Error df t value Pr(>|t|)

(Intercept) 1183.996 34.340 29.019 34.479 <2e-16 \*\*\*

RC1 -7.280 5.591 96.841 -1.302 0.196

CE1 7.331 5.136 2204.386 1.428 0.154

RC1:CE1 -5.061 5.127 4344.127 -0.987 0.324

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Correlation of Fixed Effects:

(Intr) RC1 CE1

RC1 -0.394

CE1 0.056 -0.017

RC1:CE1 0.001 -0.002 0.001

**2X2 RM ANOVA results**

**> summary(aovRT)**

Error: Subject

Df Sum Sq Mean Sq

RC 1 62838 62838

Error: Subject:RC

Df Sum Sq Mean Sq

RC 1 77560 77560

Error: Subject:CE

Df Sum Sq Mean Sq

RC 1 163413 163413

Error: Subject:RC:CE

Df Sum Sq Mean Sq

RC 1 9922 9922

Error: Within

Df Sum Sq Mean Sq F value Pr(>F)

RC 1 213391 213391 1.431 0.232

CE 1 1273 1273 0.009 0.926

RC:CE 1 362267 362267 2.430 0.119

Residuals 4369 651350252 149085