

Supplementary Data – Variability of Total THC in Greenhouse Cultivated Dried Cannabis

Author List: Ben Cleary, MRes^{1,2}, Katie Maloney, MSc^{1,2}, Amandeep Toor¹, Gillian Vandermeirsch, PhD^{1*}.

¹ Dept. of Research & Development and Lab, Pure Sunfarms Corporation, Delta, British Columbia, Canada, V4K 3N3.

¹ These authors share first authorship of this work.

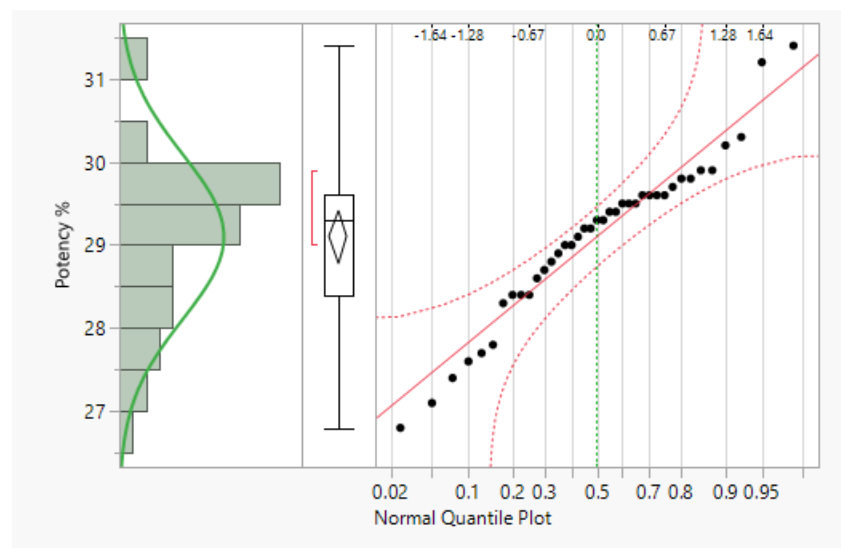
* Corresponding Author, gvandermeirsch@purefarms.com

Supplementary Figure 1 Normality and Outlier Analysis.

Normality was confirmed using Shapiro-Wilk (SW) (α 0.01) and Outlier absence confirmed using Boxplots.

Supplementary Figure 1a Top Stratification Analysis for Cultivar B17 (manuscript Figure 1)

SW – 0.2552



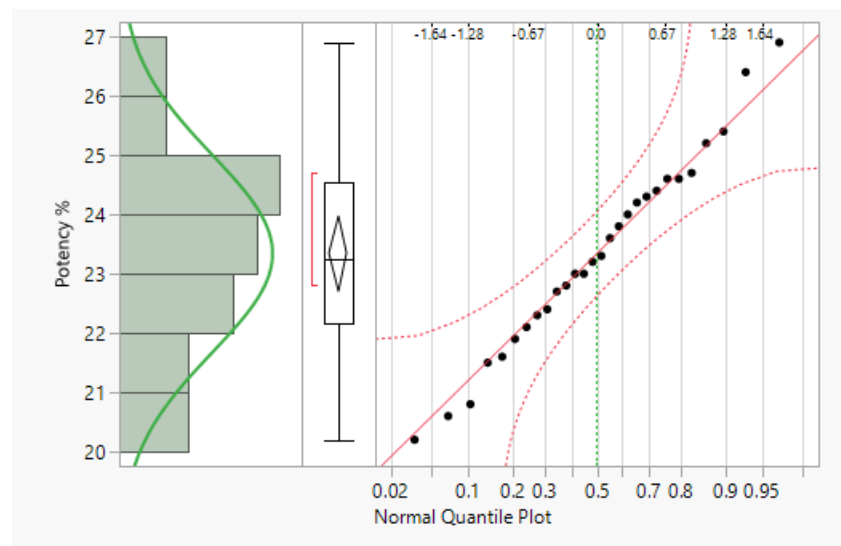
¹ Dept. of Research & Development and Lab, Pure Sunfarms Corporation, Delta, British Columbia, Canada, V4K 3N3.

² These authors share first authorship of this work.

* Corresponding Author, gvandermeirsch@purefarms.com

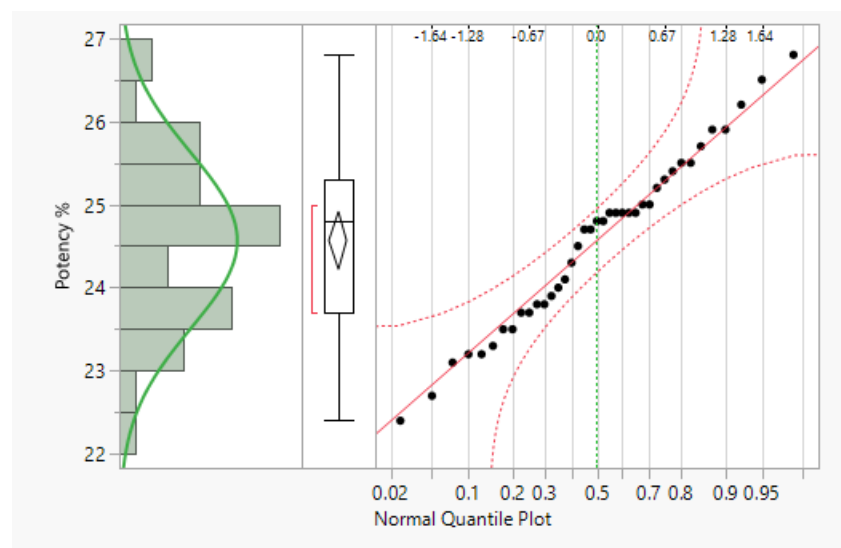
Supplementary Figure 1b Top Stratification Analysis for Cultivar F1 (manuscript Figure 1)

SW – 0.9836



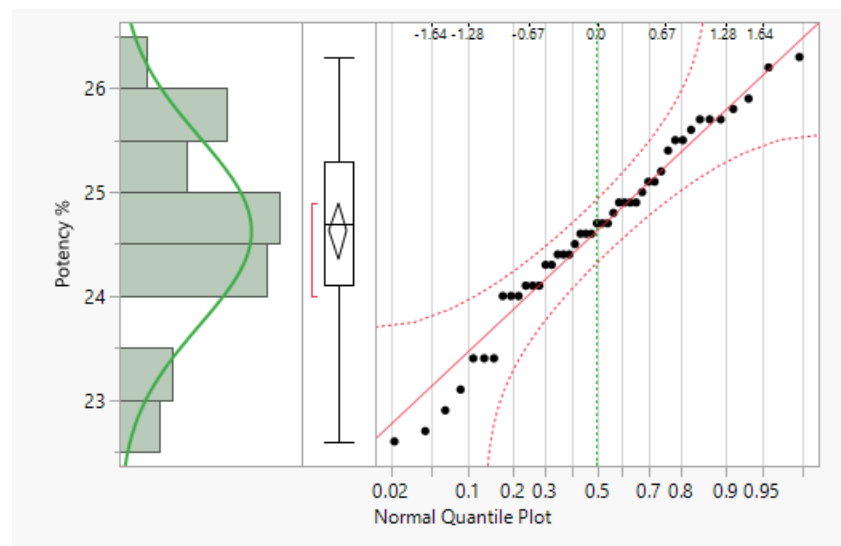
Supplementary Figure 1c Top Stratification Analysis for Cultivar P8 (manuscript Figure 1)

SW – 0.8064



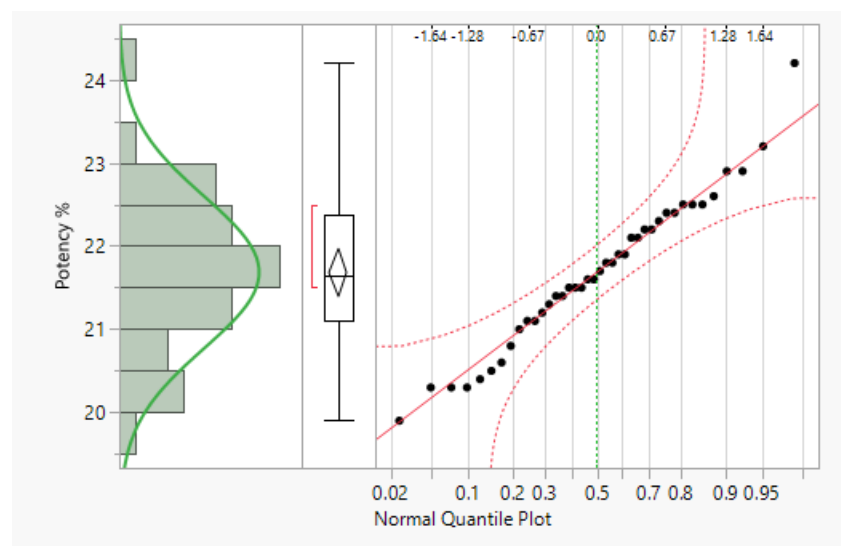
Supplementary Figure 1d Top Stratification Analysis for Cultivar C5 (manuscript Figure 1)

SW – 0.3707



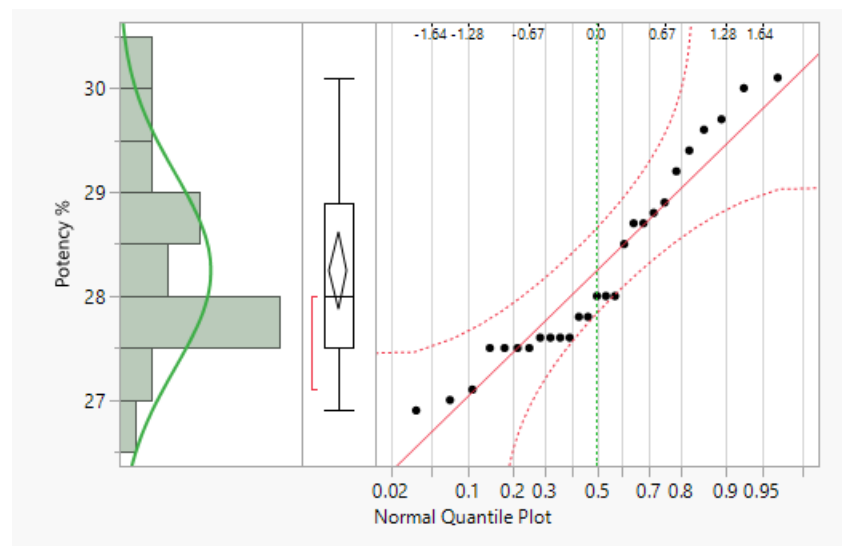
Supplementary Figure 1e Top Stratification Analysis for Cultivar E9 (manuscript Figure 1)

SW – 0.7243



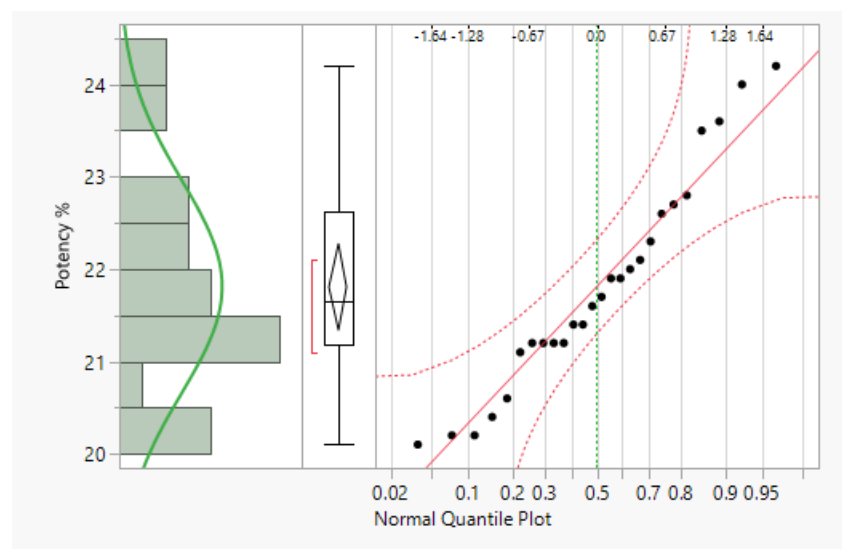
Supplementary Figure 1f Top Stratification Analysis for Cultivar G11 (manuscript Figure 1)

SW – 0.0354



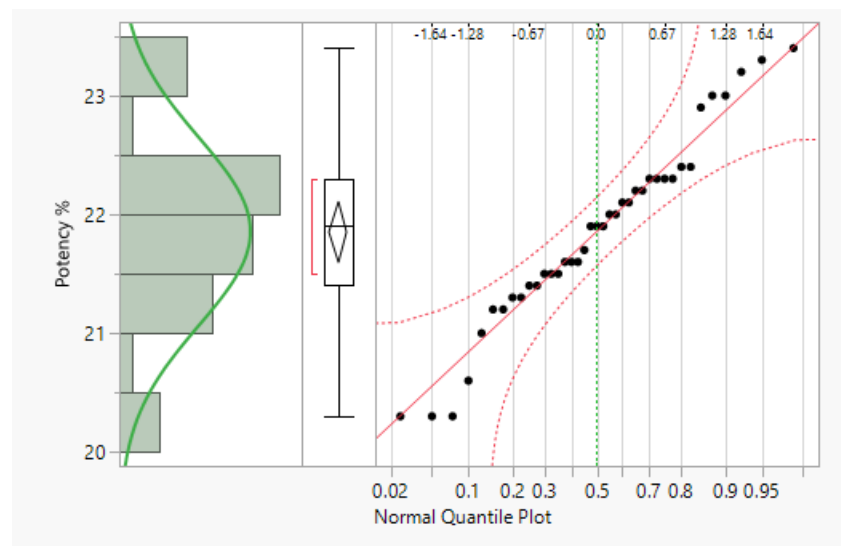
Supplementary Figure 1g Top Stratification Analysis for Cultivar K1 (manuscript Figure 1)

SW – 0.2480



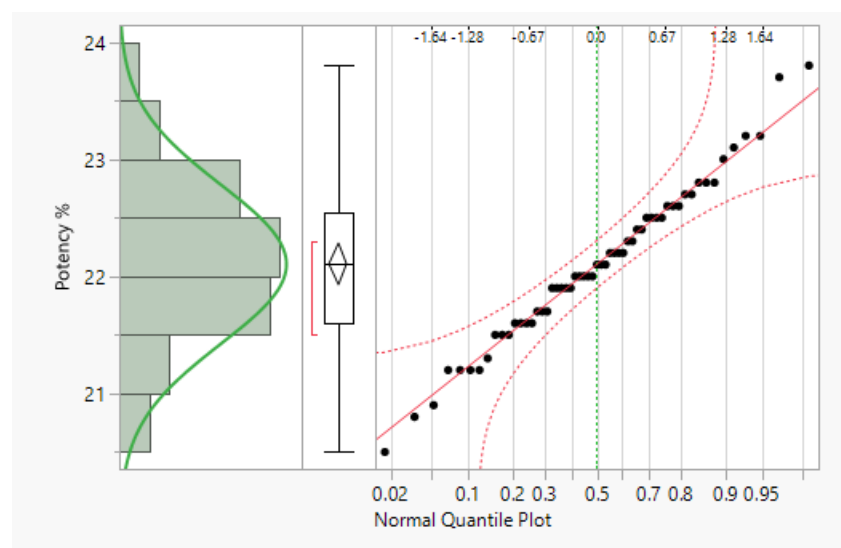
Supplementary Figure 1h Top Stratification Analysis for Cultivar K2 (manuscript Figure 1)

SW – 0.3373



Supplementary Figure 1i Top Stratification Analysis for Cultivar K3 (manuscript Figure 1)

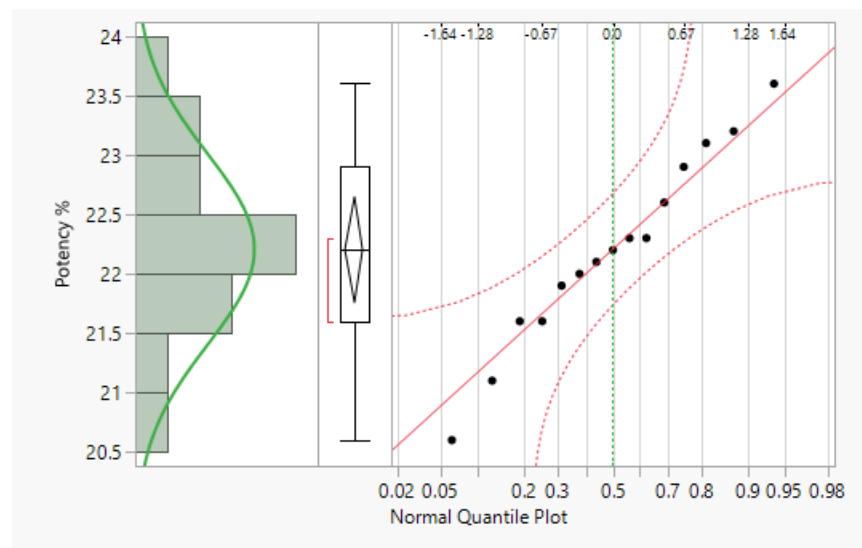
SW – 0.9437



Supplementary Figure 2 Top, Middle, Bottom Stratification Analysis

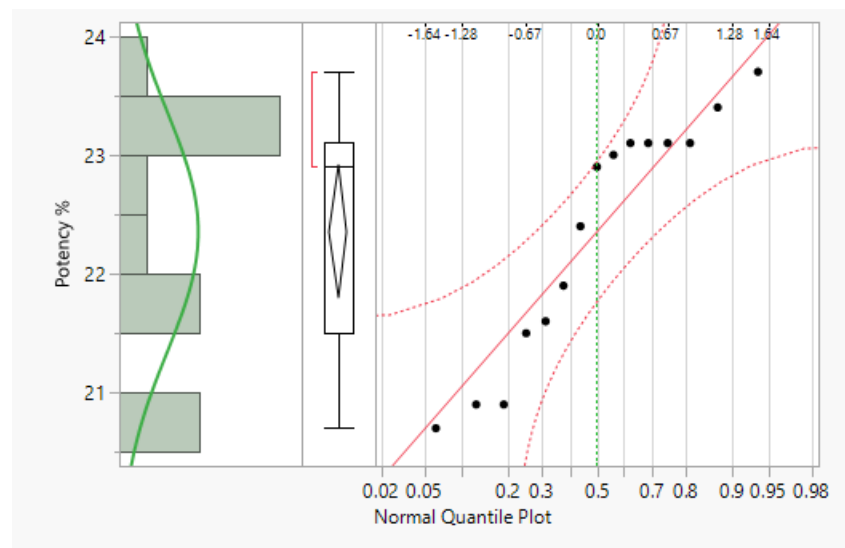
Supplementary Figure 2a K4 Top (manuscript Figure 2)

SW – 0.9900



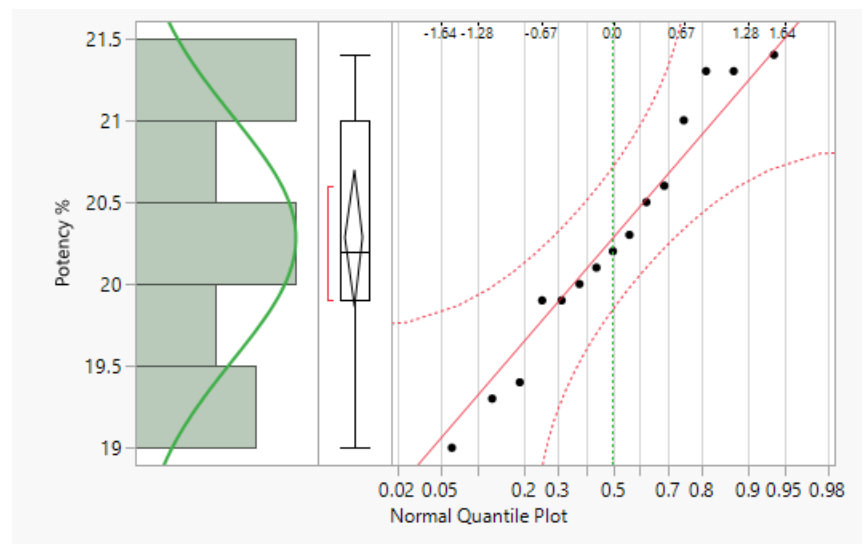
Supplementary Figure 2b K4 Middle (manuscript Figure 2)

SW – 0.0527



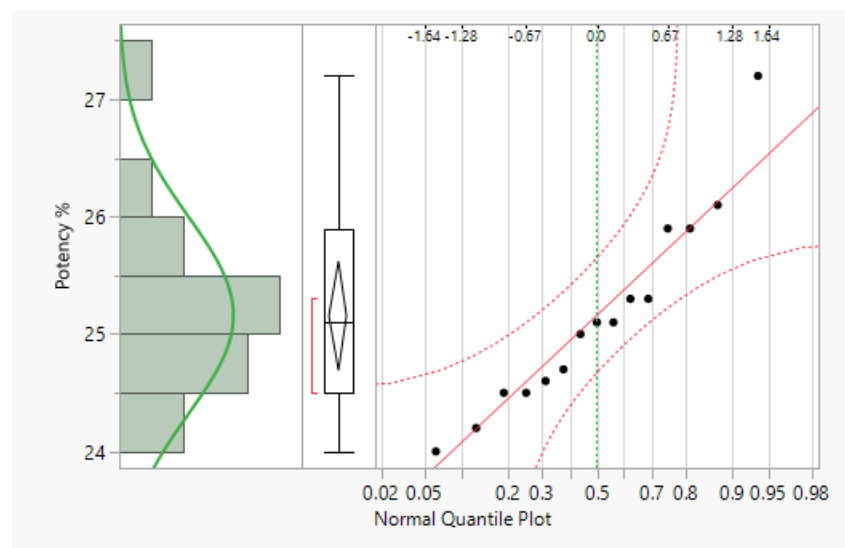
Supplementary Figure 2c K4 Bottom (manuscript Figure 2)

SW – 0.5895



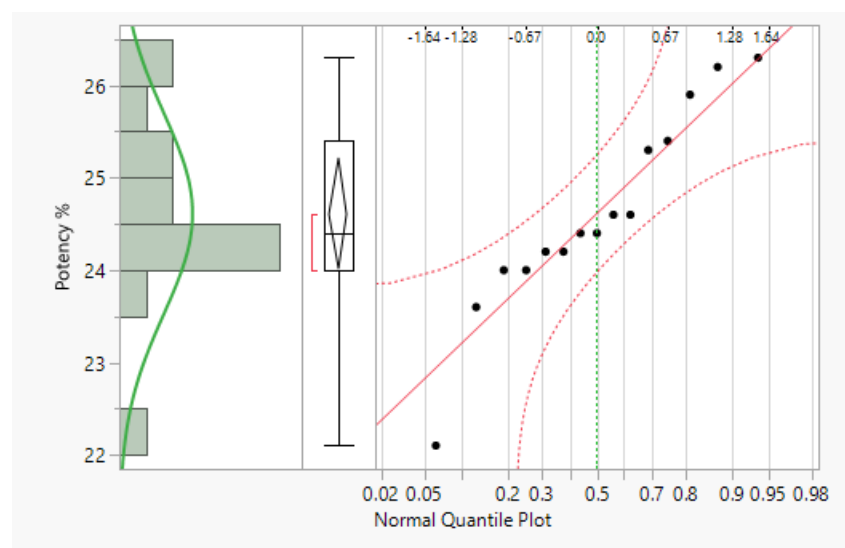
Supplementary Figure 2d F2 Top (manuscript Figure 2)

SW – 0.3341



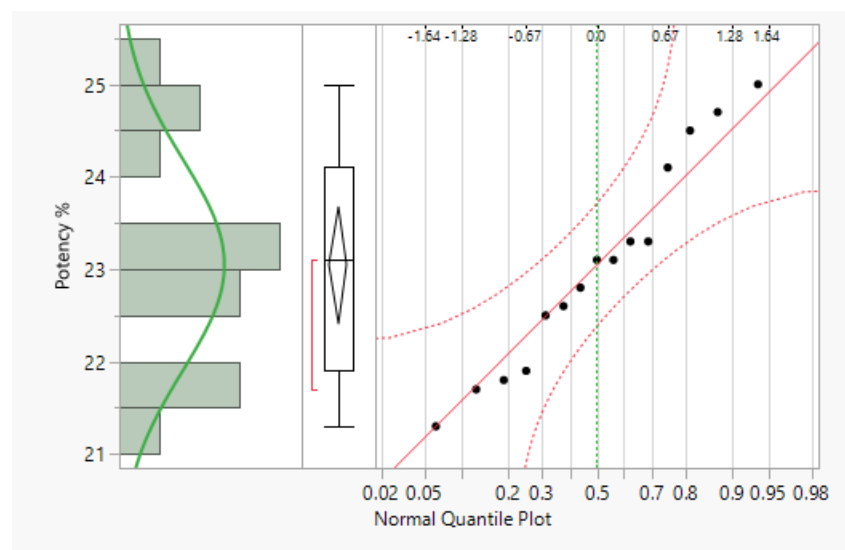
Supplementary Figure 2e F2 Middle (manuscript Figure 2)

SW – 0.3688



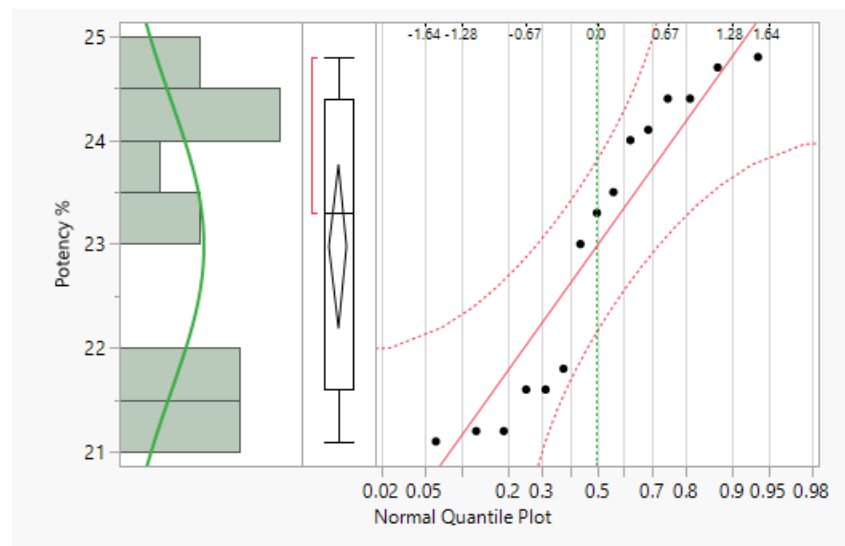
Supplementary Figure 2f F2 Bottom (manuscript Figure 2)

SW – 0.5911



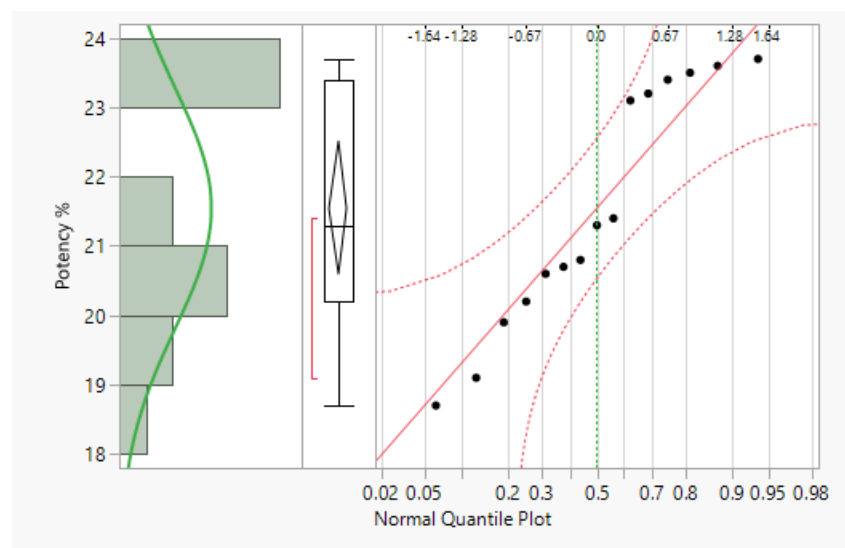
Supplementary Figure 2g D15 Top (manuscript Figure 2)

SW – 0.0343



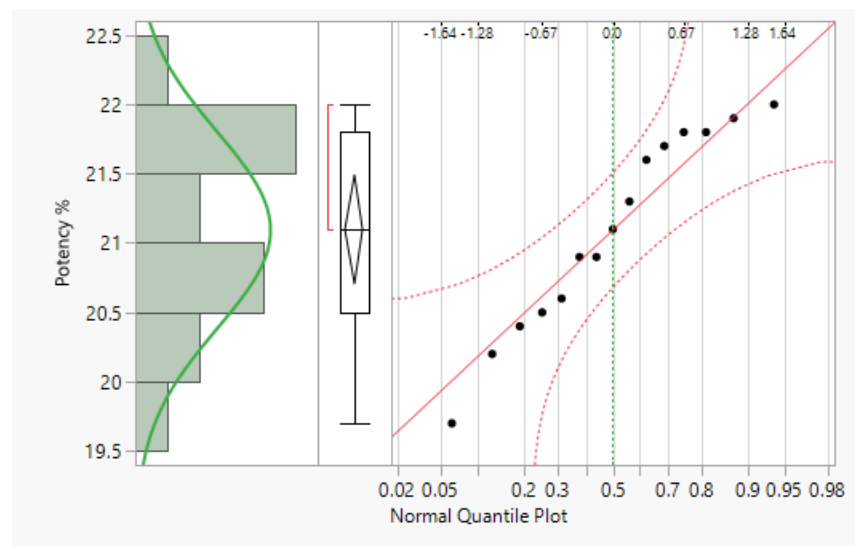
Supplementary Figure 2h D15 Middle (manuscript Figure 2)

SW – 0.0901



Supplementary Figure 2i D15 Bottom (manuscript Figure 2)

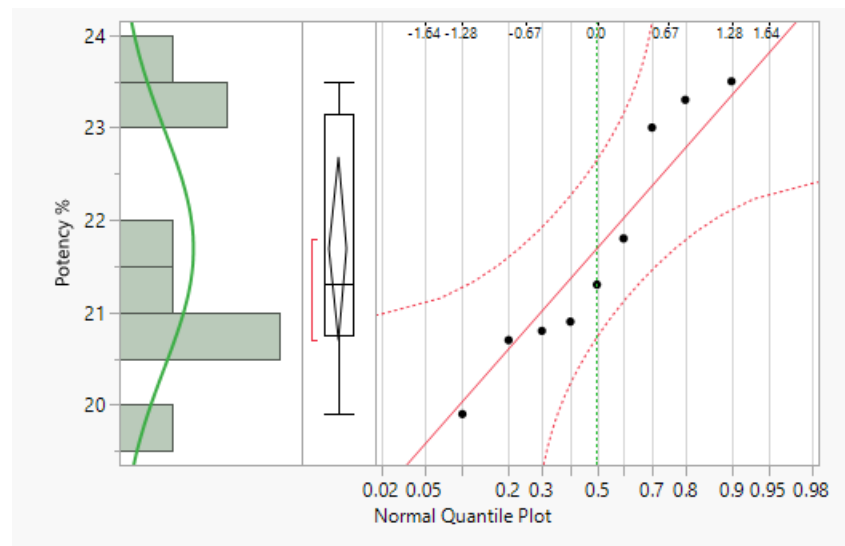
SW – 0.5911



Supplementary Figure 3 Plant vs Plant Analysis

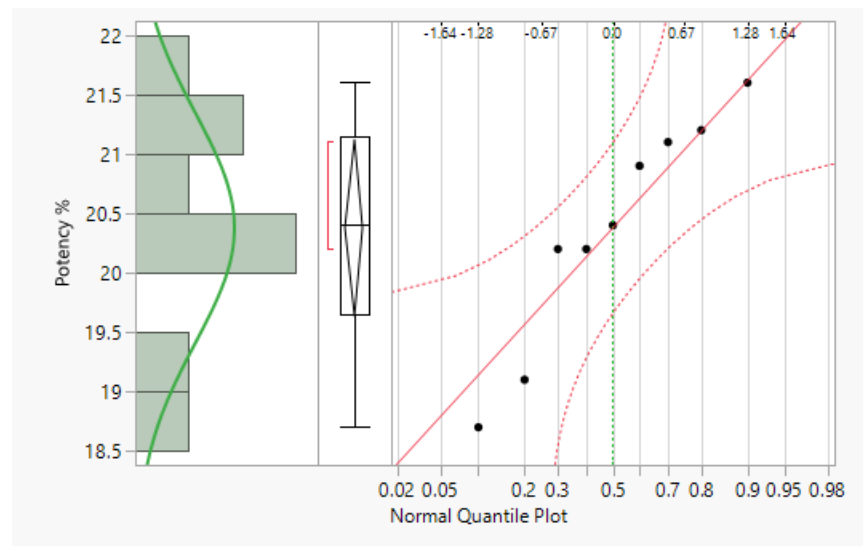
Supplementary Figure 3a D15 Plant A (manuscript Figure 4)

SW – 0.3106



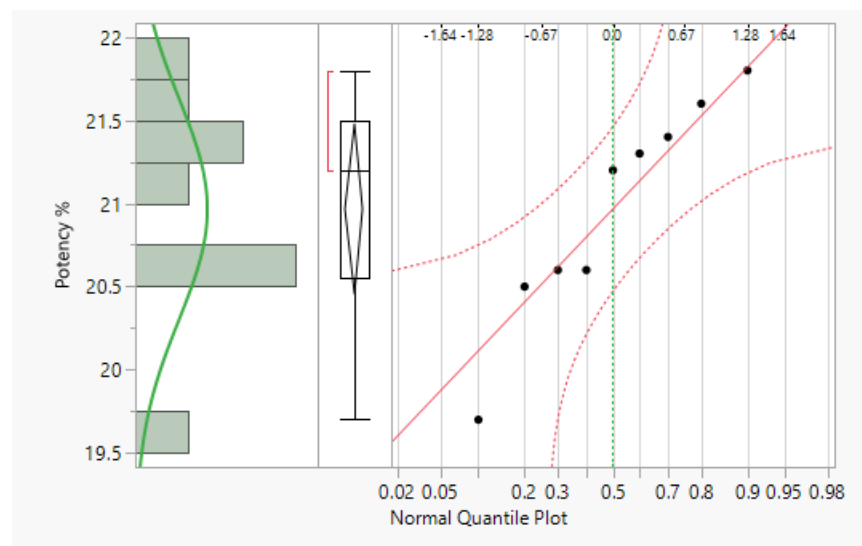
Supplementary Figure 3b D155 Plant B (manuscript Figure 4)

SW – 0.4571



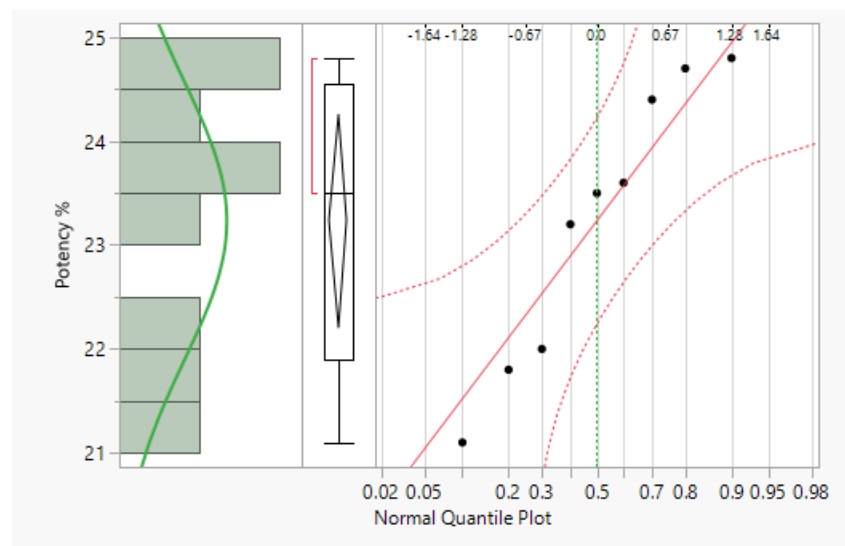
Supplementary Figure 3c D15 Plant C (manuscript Figure 4)

SW – 0.5170



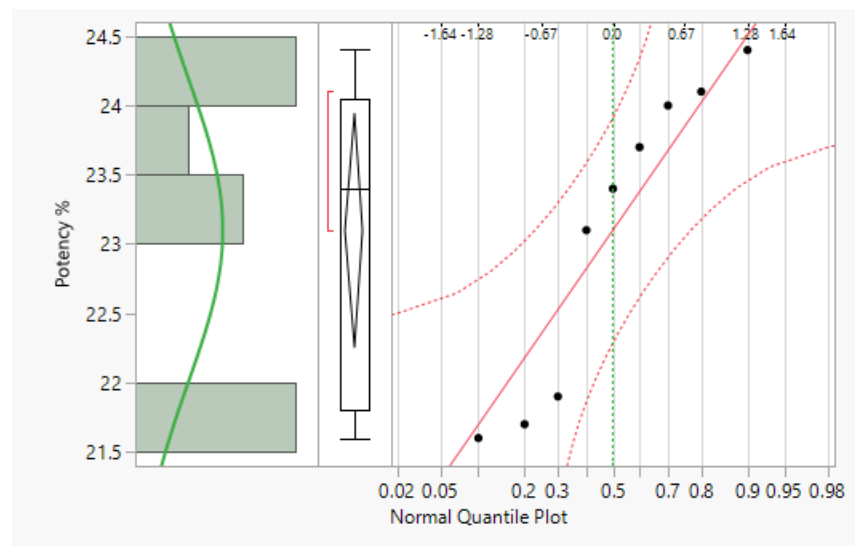
Supplementary Figure 3d D15 Plant D (manuscript Figure 4)

SW – 0.4136



Supplementary Figure 3e D15 Plant E (manuscript Figure 4)

SW – 0.1421



Supplementary Table 1 Fischer's F tests for effect size comparisons (α 0.01).

Cultivar K4 (manuscript table 3a)	P Value	Equivalent?	Effect Size Test
Top Vs Middle	0.4043	Yes	Cohen's D
Top Vs Bottom	0.7789	Yes	Cohen's D
Middle Vs Bottom	0.2663	Yes	Cohen's D
Cultivar F2 (manuscript table 3b)			
Top Vs Middle	0.3405	Yes	Cohen's D
Top Vs Bottom	0.265	Yes	Cohen's D
Middle Vs Bottom	0.8692	Yes	Cohen's D
Cultivar D15 (manuscript table 3c)			
Top Vs Middle	0.4563	Yes	Cohen's D
Top Vs Bottom	0.01418	Yes	Cohen's D
Middle Vs Bottom	0.001894	No	Glass's D
Cultivar D15 (manuscript table 4)			
A vs B	0.4298	Yes	Cohen's D
A vs C	0.07831	Yes	Cohen's D
A vs D	0.9248	Yes	Cohen's D
A vs E	0.652	Yes	Cohen's D
B vs C	0.3108	Yes	Cohen's D
B vs D	0.3779	Yes	Cohen's D
B vs E	0.732	Yes	Cohen's D
C vs D	0.0649	Yes	Cohen's D
C vs E	0.1797	Yes	Cohen's D
D vs E	0.5861	Yes	Cohen's D

Supplementary Statistical Analyses

Bartlett Test Scores (α 0.01) – Test for homogeneity of variance for ANOVA testing.

Manuscript Figure 3 - Batch J Top vs Middle vs Bottom – 0.4933.

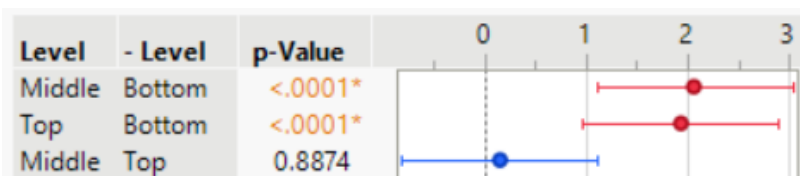
Manuscript Figure 3 - Batch K Top vs Middle vs Bottom – 0.5013.

Manuscript Figure 3 - Batch L Top vs Middle vs Bottom – 0.0076*.

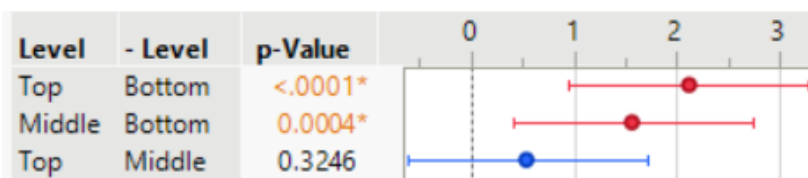
Manuscript Figure 4 - Batch L plants vs plants – 0.3837.

*Significant difference between variances, therefore Kruskal-Wallis Test used instead of ANOVA.

Manuscript Figure 3 Batch J Tukey-Kramer HSD Data



Manuscript Figure 3 Batch K Tukey-Kramer HSD Data



Manuscript Figure 3 Batch L Dunn's post-hoc Data

Nonparametric Comparisons For All Pairs Using Dunn Method For Joint Ranking					
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value
Top	Bottom	14.86667	4.793303	3.101549	0.0058*
Top	Middle	12.00000	4.793303	2.503493	0.0369*
Middle	Bottom	2.80000	4.793303	0.584148	1.0000

Manuscript Figure 4 Batch L Tukey Kramer HSD Data (Plant vs Plant)

