Table S1.   **Statistical Analysis of all the analysed variables with their level of significance and their *p*-values**

1.   <u>One-Way ANOVA - Weight</u>

Dependent variable: Weight
Factor: Sample name
No. of observations: 9
No. of levels: 3

ANOVA Table for Weight at harvest by Sample name

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
Between groups	1.99049	2	0.995244	29.19	0.0008
Within groups	0.2046	6	0.0341		
Total (Corr.)	2.1909	8			

Multiple Range Tests for Weight by Sample name (Method: 95% Duncan)

Sample name	Count	Mean	Homogeneous Groups
Jute Protocol 1	3	5.43333	b
Jute Protocol 2	3	6.22667	a
Peat (CTRL)	3	6.55333	a

Contrast	Sig.
Jute Protocol 2 - Jute Protocol 1	*
Jute Protocol 2 - Peat (CTRL)	
Jute Protocol 1 - Peat (CTRL)	*

* Denotes a statistically significant difference.

2.   <u>One-Way ANOVA - Height</u>

Dependent variable: Height
Factor: Sample name
Number of observations: 9
Number of levels: 3

ANOVA Table for Height at harvest by Sample name

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
Between groups	0.5096	2	0.2548	5.64	0.0419
Within groups	0.2712	6	0.0452		
Total (Corr.)	0.7808	8			

Multiple Range Tests for Height harvesting by Sample name (Method: 95% Duncan)

Sample name	Count	Mean	Homogeneous Groups
Jute Protocol 1	3	3.13333	b
Jute Protocol 2	3	3.69333	a
Peat (CTRL)	3	3.77333	a

Contrast	Sig.

Jute Protocol 2 - Jute Protocol 1	*
Jute Protocol 2 - Peat (CTRL)	
Jute Protocol 1 - Peat (CTRL)	*

* Denotes a statistically significant difference.

3. Multiple Sample Comparison - Texture/toughness

Sample 1 : jute
Sample 2 : peat
Sample 1: 10 values ranging from 0.6 to 0.75.
Sample 2: 10 values ranging from 0.6 to 0.9.

ANOVA table

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
Between groups	0.0780132	1	0.0780132	14.38	0.0015
Within groups	0.09225	17	0.00542647		
Total (Corr.)	0.170263	18			

Multiple Range Tests (Method: 95% Duncan)

	Count	Mean	Homogeneous Groups
Jute Protocol 2	10	0.655	b
Peat (CTRL)	10	0.783333	a

Contrast	Sig.
Jute Protocol 2- Peat (CTRL)	*

* Denotes a statistically significant difference.

4. Multiple Sample Comparions - Phenols FW

Sample 1: Phenols Jute FW
Sample 2: Phenols Peat FW
Sample 1: 6 values ranging from 0.83 to 1.87
Sample 2: 6 values ranging from 0.53 to 1.69

ANOVA table

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
Between groups	0.229633	1	0.229633	01.43	0.2590
Within groups	1.60307	10	0.160307		
Total (Corr.)	2327.33	11			

Multiple Range Tests (Method: 95% Duncan)

	Count	Mean	Homogeneous Groups
Phenols peat FW	6	1.26667	a
Phenols jute FW	6	1.5433	a

Contrast	Sig.
Phenols peat FW – Phenols jute FW	

5.   Multiple Sample Comparison - Phenols DW

Sample 1: Phenols Jute DW
Sample 2: Phenols Peat DW
Sample 1: 6 values ranging from 16.04 to 35.95
Sample 2: 6 values ranging from 10.11 to 32.57

ANOVA table

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
Between groups	83.8994	1	83.8984	1.41	0.2626
Within groups	595.235	10	59.5235		
Total (Corr.)	679.134	11			

Multiple Range Tests (Method: 95% Duncan)

	Count	Mean	Homogeneous Groups
Phenols peat DW	6	24.3867	a
Phenols jute DW	6	29.6750	a

Contrast	Sig.
Phenols peat DW – Phenols jute DW	

6.   Multiple Sample Comparison - Chl *a*

Sample 1: Chl *a* jute
Sample 2: Chl *a* peat
Sample 1: 3 values ranging from 337.0 to 383.0
Sample 2: 3 values ranging from 312.0 to 354.0

ANOVA table

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
Between groups	1176.0	1	1176.0	2.42	0.1947
Within groups	1943.33	4	485.833		
Total (Corr.)	3119.33	5			

Multiple Range Tests (Method: 95% Duncan)

	Count	Mean	Homogeneous Groups
Chl a peat	3	332.333	a
Chl a jute	3	360.333	a

Contrast	Sig.
Chl *a* peat – Chl *a* jute	

7.   Multiple Sample Comparison - Chl *b*

Sample 1: Chl *b* jute
Sample 2: Chl *b* peat
Sample 1: 3 values ranging from 150.0 to 200.0
Sample 2: 3 values ranging from 144.0 to 187.0

ANOVA table

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
Between groups	150	1	150	0.28	0.6274
Within groups	2177.33	4	544.333		
Total (Corr.)	2327.33	5			

Multiple Range Tests (Method: 95% Duncan)

	Count	Mean	Homogeneous Groups
Chl *b* peat	3	165.667	a
Chl *b* jute	3	175.667	a

Contrast	Sig.
Chl *b* peat – Chl *b* jute	

8.   Multiple Sample Comparison - Carotenoid

Sample 1: Carotenoid jute Sample
Sample 2: Carotenoid peat
Sample 1: 3 values ranging from 67.0 to 77.0
Sample 2: 3 values ranging from 54.0 to 59.0

ANOVA Table

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
Between groups	337.5	1	337.5	20.66	0.0105
Within groups	65.3333	4	16.3333		
Total (Corr.)	402.833	5			

Multiple Range Tests (Method: 95% Duncan)

	Count	Mean	Homogeneous Groups
Carotenoid peat	3	56.3333	b
Carotenoid jute	3	71.3333	a

Contrast	Sig.	Difference
Carotenoid peat - Carotenoid jute	*	15

* Denotes a statistically significant difference