

## Supporting Information

**Table S1.** Calculation of Mean, Variance and Standard deviation of product yields at optimum temperature

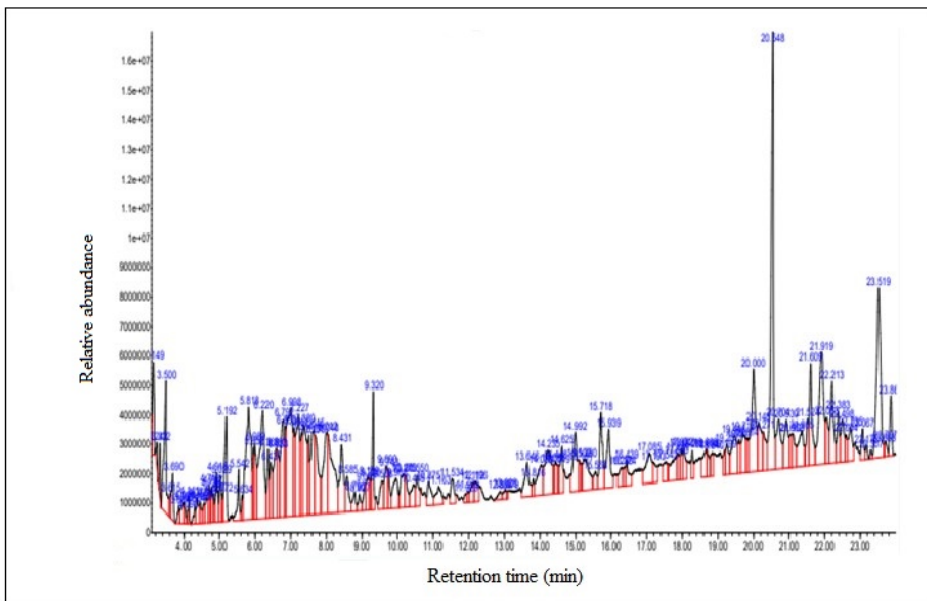
Product yield (%)		Readings			Mean	Variance	Standard Deviation
		A	B	C			
1.	Bio-oil	24.5	35	31	30.17	18.72	4.33
2.	Gas	15	17	27.4	19.80	29.55	5.44
3.	Char	60.5	48	41.6	50.03	61.60	7.85

**Table S2.** Calculation of Mean, Variance and Standard deviation of product yields at optimum time

Product yield (%)		Readings			Mean	Variance	Standard Deviation
		A	B	C			
1.	Bio-oil	23.2	35	30.3	29.50	23.53	4.85
2.	Gas	15.3	17	20.1	17.47	3.95	1.99
3.	Char	61.5	48	49.6	53.03	36.27	6.02

**Table S3.** Calculation of Mean, Variance and Standard deviation of product yields at optimum Catalyst concentration

Product yield (%)		Readings			Mean	Variance	Standard Deviation
		A	B	C			
1.	Bio-oil	28	35	31	31.33	8.22	2.87
2.	Gas	32	17	38	29	78	8.83
3.	Char	40	48	31	39.67	48.22	6.94



**Figure S1:** GC-MS of oil obtained from thermocatalytic reaction of cotton seed press cake