

## SUPPLEMENTARY MATERIAL

Table S1. Multiple regression coefficients for TPC

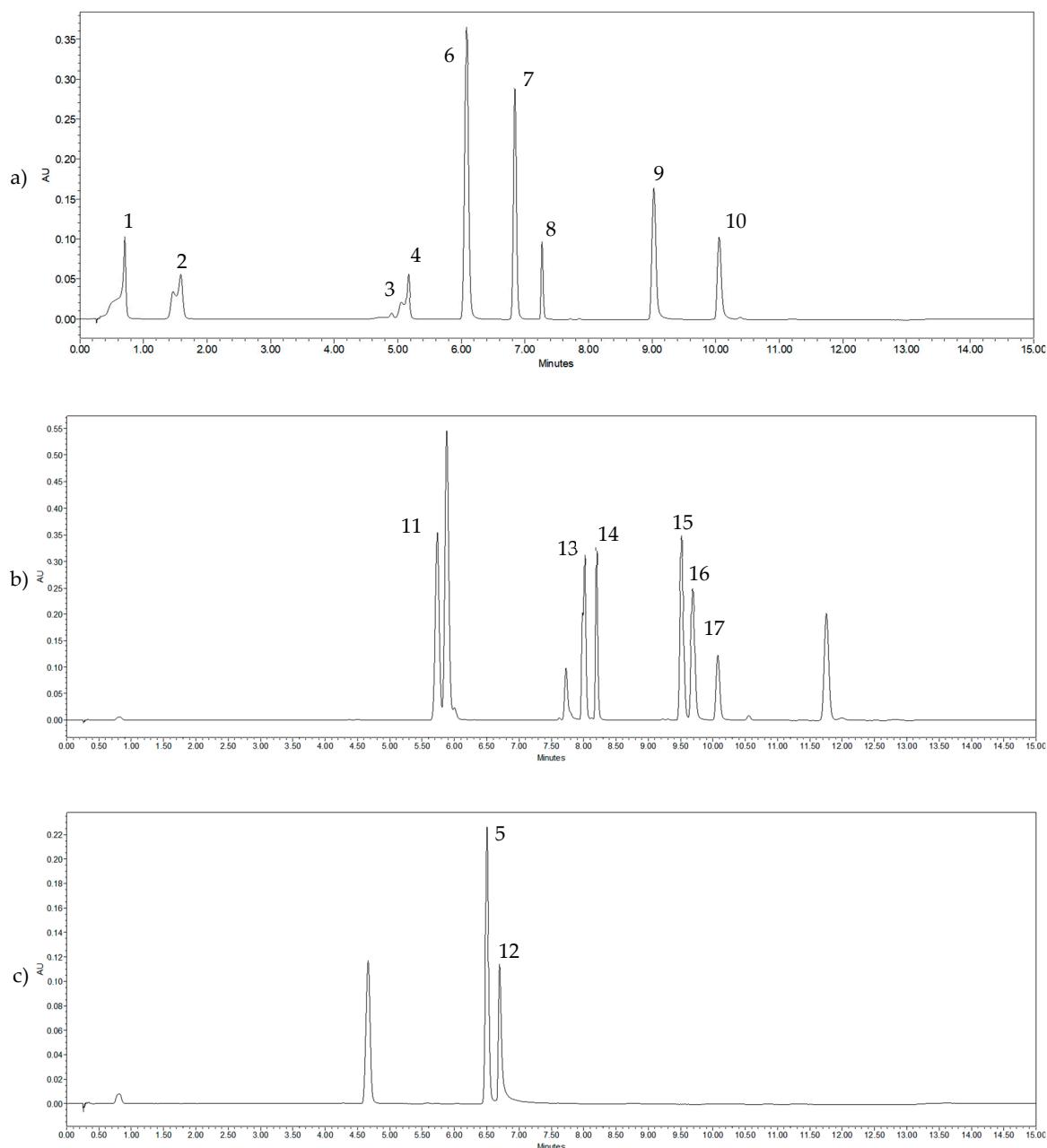
<i>Coefficient</i>	<i>Estimated</i>
Constant	15559.1
A	-293.297
B	-7.21992
C	-84.7287
AA	1.23648
AB	0.0816845
AC	1.66784
BB	0.00069466
BC	0.0334299
CC	0.0236093
ABC	-0.00071186

Note: A = Temperature (°C); B = Pressure (Psi); C = Extraction time (min)

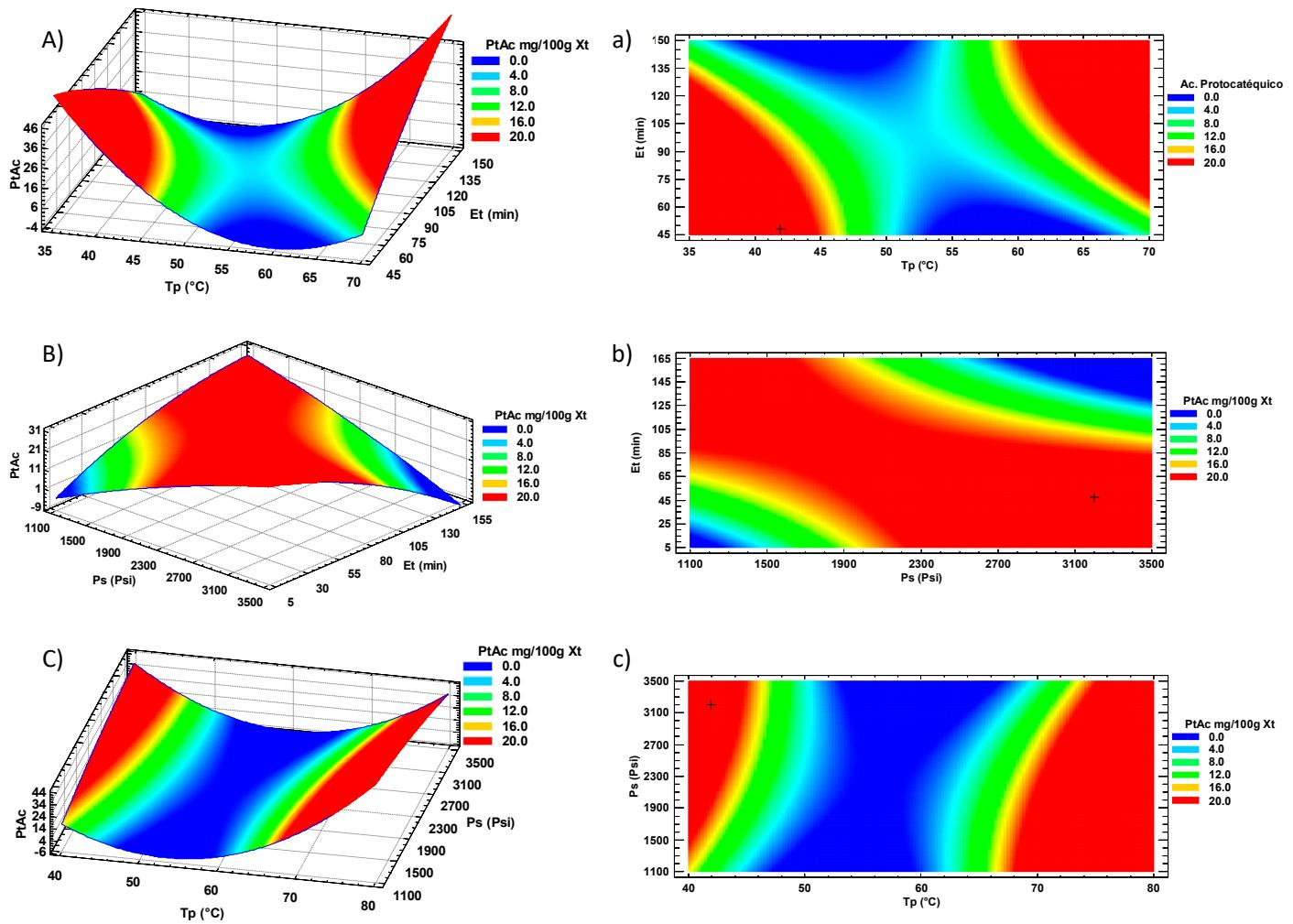
Table S2. ANOVA of complete experimental design of TPC

<i>Source</i>	<i>Sum of squares</i>	<i>Gl</i>	<i>Mean Squares</i>	<i>F-Value</i>	<i>P-Value</i>
A	1.68079E6	1	1.68079E6	28.13	0.0000
B	1.76559E6	1	1.76559E6	29.55	0.0000
C	95662.7	1	95662.7	1.60	0.2109
AA	144383.	1	144383.	2.42	0.1256
AB	293640.	1	293640.	4.91	0.0306
AC	23150.7	1	23150.7	0.39	0.5361
BB	3.98265E6	1	3.98265E6	66.65	0.0000
BC	235331.	1	235331.	3.94	0.0520
CC	13142.3	1	13142.3	0.22	0.6409
ABC	431500.	1	431500.	7.22	0.0094
Error total	3.4062E6	57	59757.9		
Total (corr.)	1.19775E7	67			

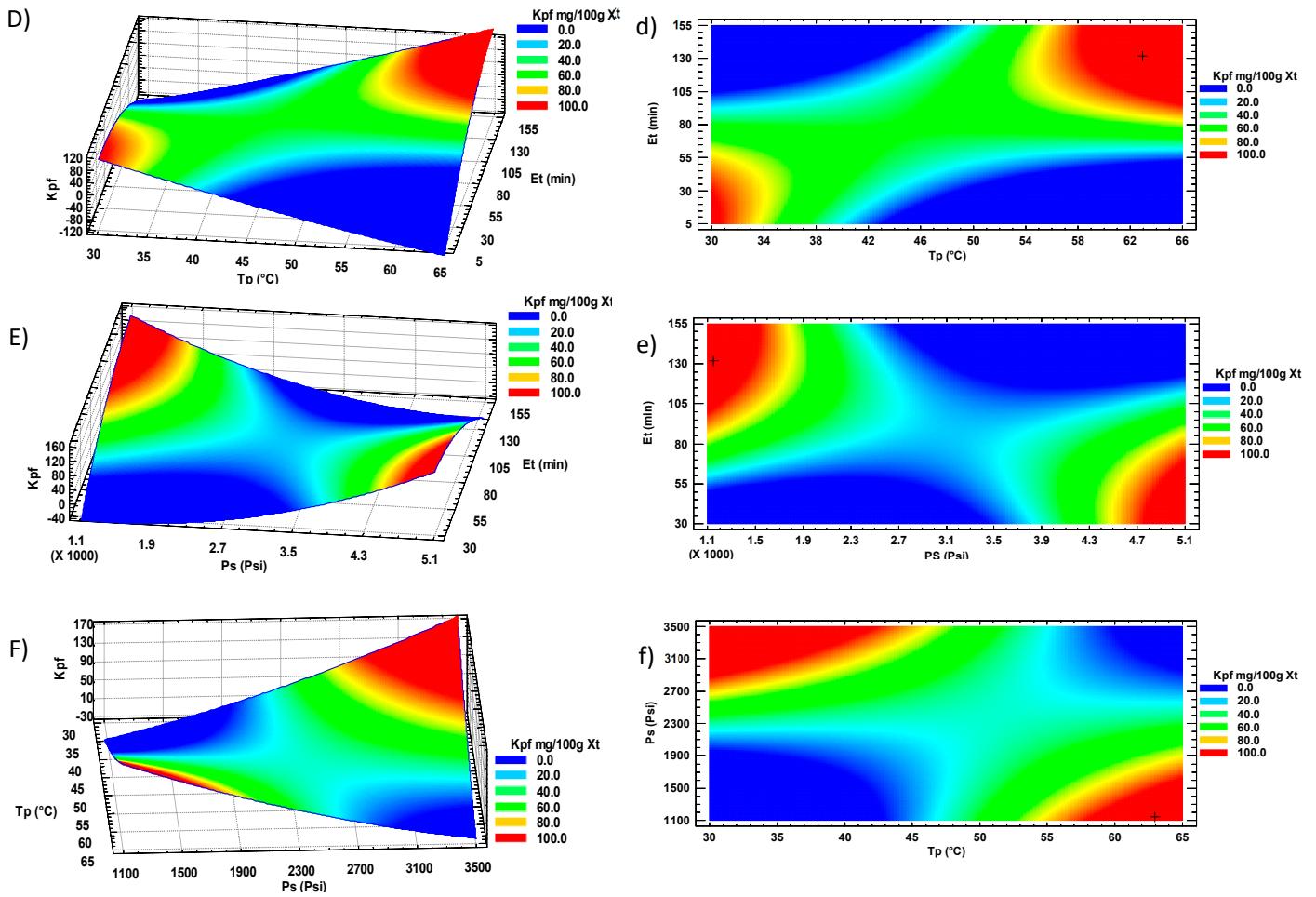
Note: A = Temperature (°C); B = Pressure (Psi); C = Extraction time (min)



**Figure S1.** Chromatogram corresponding to calibration curve of individual polyphenols; a) Polyphenol calibration curve Mix 1; b) Polyphenol calibration curve Mix 2; c) Polyphenol calibration curve Mix 3. Numeration: 1 = gallic acid; 2 = protocatechuic acid; 3 = catechin; 4 = chlorogenic acid; 5 = ferulic acid; 6 = cumaric acid; 7 = cinnamic acid; 8 = rutin; 9 = quercetin + luteolin; 10 = kamepferol; 11 = vanillin; 12 = ellagic acid; 13 = diosmin + hesperidin; 14 = neohesperidin; 15 = naringenin; 16 = apigenin; 17 = Diosmetin



**Figure S2.** Response surface plots (capital letters): A) Temperature (Tp) interaction with extraction time (Et) of protocatechuic acid (PtAc); B) Pressure (Ps) interaction with extraction time (Et) of PtAc; C) Temperature (Tp) interaction with pressure (Ps) of PtAc; D) Temperature (Tp) interaction with extraction time (Et) of protocatechuic acid (PtAc); E) Pressure (Ps) interaction with extraction time (Et) of Kfp; F) Temperature (Tp) interaction with pressure (Ps) of Kfp; and contour plots (lowercase): a) Tp interaction with Et of PtAc; b) Ps interaction with Et of PtAc; c) Tp interaction with Ps of PtAc; d) Tp interaction with Et of Kfp; e) Ps interaction with Et of Kfp; f) Tp interaction with Ps of Kfp. Abbreviations: Xt = Habanero pepper extract.



**Figure S3.** Response surface plots (capital letters): A) Temperature (Tp) interaction with extraction time (Et) of Kaempferol (Kpf); B) Pressure (Ps) interaction with extraction time (Et) of PtAc; C) Temperature (Tp) interaction with pressure (Ps) of PtAc; D) Temperature (Tp) interaction with extraction time (Et) of kaempferol (Kfp); E) Pressure (Ps) interaction with extraction time (Et) of Kfp; F) Temperature (Tp) interaction with pressure (Ps) of Kfp; and contour plots (lowercase): a) Tp interaction with Et of PtAc; b) Ps interaction with Et of PtAc; c) Tp interaction with Ps of PtAc; d) Tp interaction with Et of Kfp; e) Ps interaction with Et of Kfp; f) Tp interaction with Ps of Kfp. Abbreviations: Xt = Habanero pepper extract.