Supplementary material for the article:

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Supplementary material

Distribution of elements in seeds of some wild and cultivated fruits. Nutrition and authenticity aspects

Đurđa Krstić[a], Vesna Vukojević[b], Jelena Mutić[a], Milica Fotirić Akšić[c], Vlado Ličina[c], Dušanka Milojković-Opsenica[a], Jelena Trifković[a*]

[a]*University of Belgrade - Faculty of Chemistry, P.O.Box 51, 11158 Belgrade, Serbia*

[b]*Innovation Centre of Faculty of Chemistry Ltd, Studentski trg 12-16, 11000 Belgrade, Serbia*

[c]*University of Belgrade - Faculty of Agriculture, Nemanjina 6, 11080 Belgrade-Zemun, Serbia*

Content

Table S1. Results of determination of elements in reference material ERM-CD281 (rye grass)

Elements	ERM-CD281 (rye grass)		
	Certified value ± uncertainty* (mg/kg)	Found value ± uncertainty (mg/kg)	Recovery (%)
As	0.042 ± 0.010	0.040 ± 0.012	95.24
Cd	0.120 ± 0.007	0.125 ± 0.005	104.17
Cr	24.8 ± 1.3	24.2 ± 1.0	97.58
Cu	10.2 ± 0.5	10.0 ± 0.4	98.04
Hg	0.0164 ± 0.0022	0.0149 ± 0.0030	90.85
Mn	82 ± 4	80 ± 3	97.56
Ni	15.2 ± 0.6	15.0 ± 0.4	98.68
Pb	1.67 ± 0.11	1.65 ± 0.09	98.80
Zn	30.5 ± 1.1	31.2 ± 0.9	102.30
	Additional Material Information (g/kg)	Found value (g/kg)	Recovery (%)
Ca	6.3	6.148	97.59
Fe	0.18	0.169	93.89
K	34	33.197	97.64
Mg	1.6	1.516	94.75
Na	4	4.135	103.38
P	2.8	2.751	98.25
S	3.4	3.309	97.32

*Uncertainty for 95 % confidence level (coverage factor k = 2)

Table S2. Instrument operating conditions for ICP-QMS

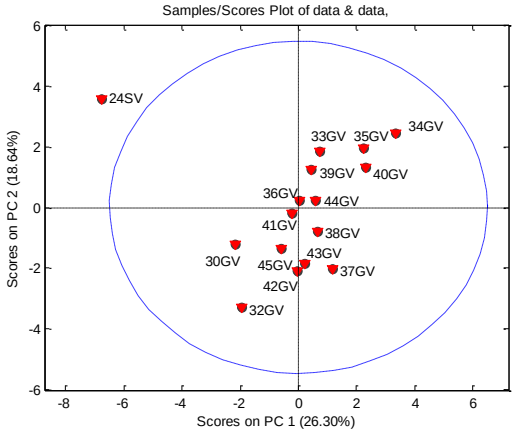
Rf power (W)	1548
Gas flows (L/min)	13.9; 1.09; 0.8
Acquisition time	3 x 50s
Points per peak	3
Dwell time (ns)	10
Detector mode	Pulse
Measured isotopes	^{75}As, ^{136}Ba, ^{111}Cd, ^{59}Co, ^{50}Cr, ^{65}Cu, ^{202}Hg, ^{55}Mn, ^{62}Ni, ^{207}Pb, ^{86}Sr, ^{68}Zn

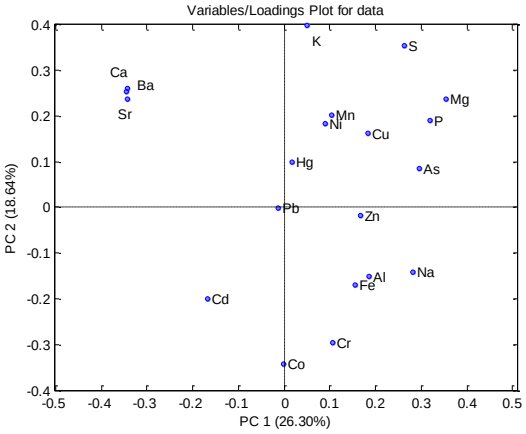
Table S3. Kruskal–Wallis test – comparison of the medians of unmatched samples

Element	P[a]	Kruskal-Wallis Multiple Comparison *z*-test
Al	0.0002	Currant(Blueberry, Strawberry)
As	0.4332	/
Ba	0.0013	Strawberry(Blueberry, Currant, Raspberry)
Ca	<0.0001	Strawberry(Blackberry, Currant, Blueberry, Raspberry) Currant(Blueberry, Raspberry)
Cd	0.1092	/
Co	<0.0001	Strawberry(Blackberry, Currant, Blueberry) Blueberry(Raspberry)
Cr	3.6332	/
Cu	<0.0001	Strawberry(Blackberry, Currant, Blueberry, Raspberry) Currant(Blueberry)
Fe	0.8342	/
Hg	0.0827	/
K	<0.0001	Currant(Blackberry, Blueberry, Raspberry, Strawberry) Strawberry(Blueberry)
Mg	<0.0001	Currant(Blackberry, Blueberry, Raspberry, Strawberry) Strawberry(Blackberry, Blueberry)
Mn	<0.0001	Currant(Blackberry, Blueberry, Raspberry, Strawberry)
Na	0.4201	/
Ni	0.0006	Currant(Blackberry, Blueberry, Strawberry) Raspberry(Blackberry, Strawberry)
P	<0.0001	Currant(Blackberry, Blueberry, Raspberry, Strawberry) Strawberry(Blackberry, Blueberry, Raspberry)
Pb	0.2474	/
S	<0.0001	Currant(Blackberry, Blueberry, Raspberry, Strawberry) Strawberry(Blackberry)
Sr	0.9564	/
Zn	0.0010	Strawberry(Blackberry, Blueberry, Currant)

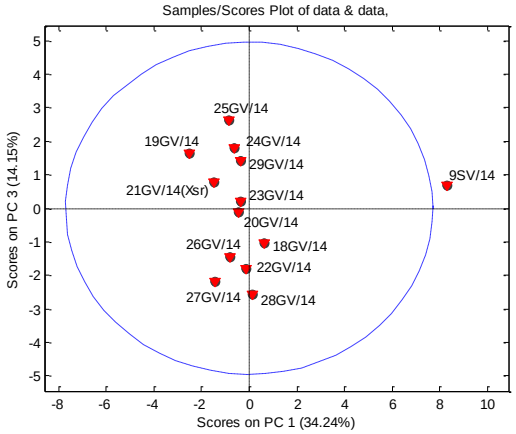
[a] Differences between two set of data is significant when P value is less or equal to P=0.05

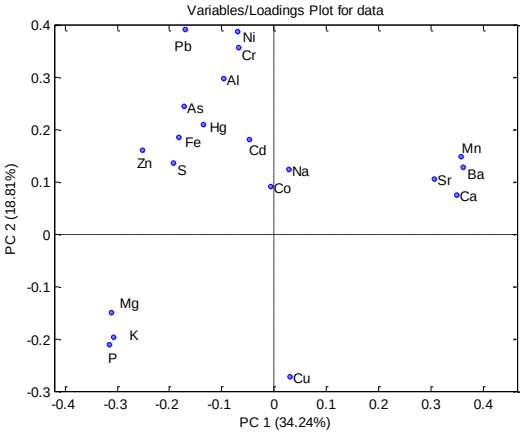
Strawberry



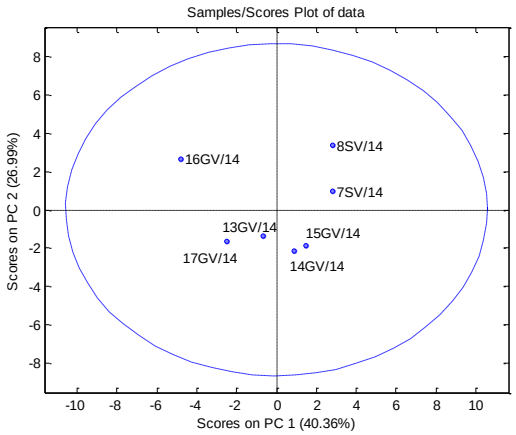


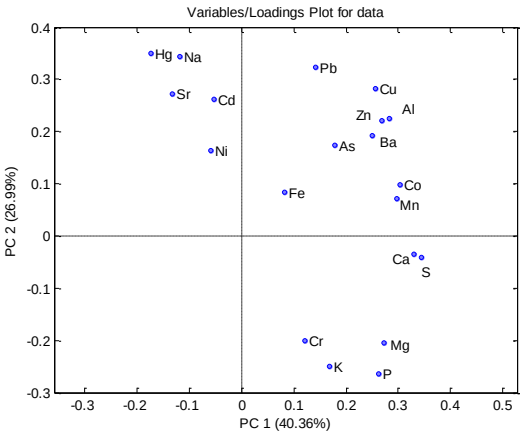
Currant





Blueberry





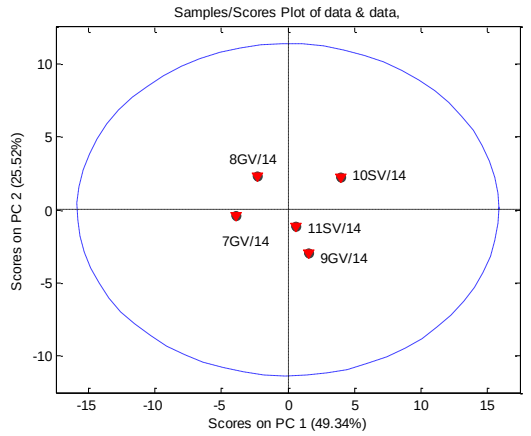
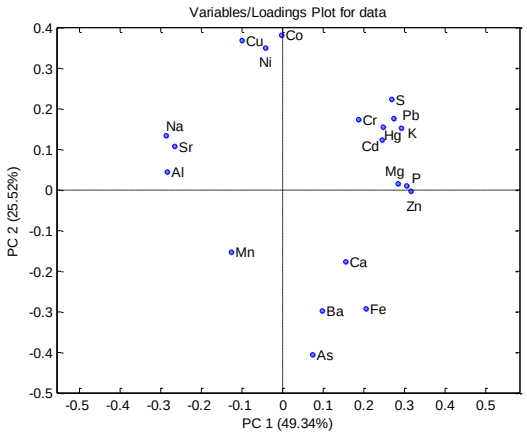
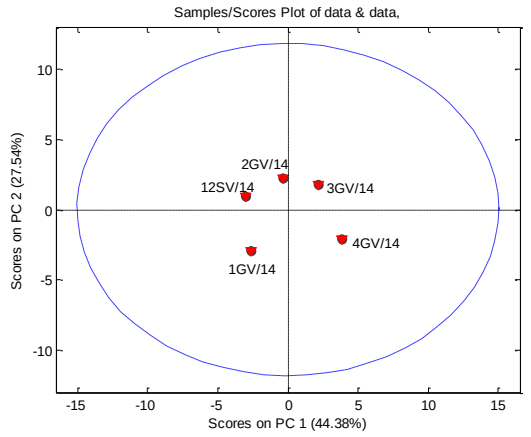
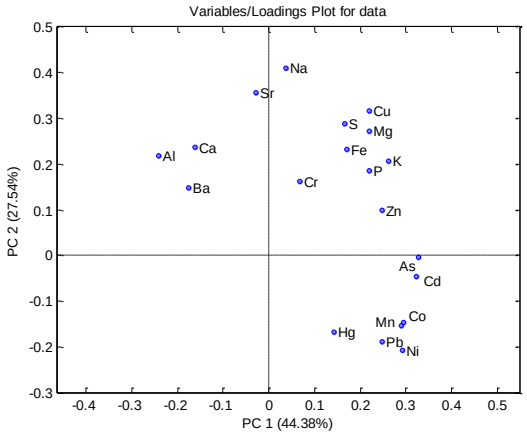
Blackberry	
	
Raspberry	
	

Figure S1.