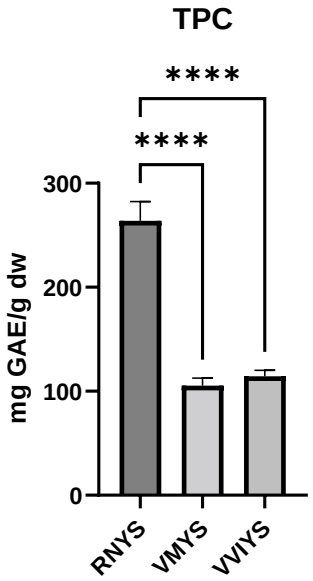

Figure S1. Statistical comparison for results of total polyphenolic content (TPC) for optimized young shoots extracts of *Ribes nigrum* (RNYS), *Vaccinium myrtillus* (VMYS), and *Vaccinium vitis-idaea* (VVIYS). All values are expressed as mean ± SD (n = 3). Statistical analysis was performed using a one-way ANOVA test, with Tukey's multiple comparisons post-test (**** $p < 0.0001$).

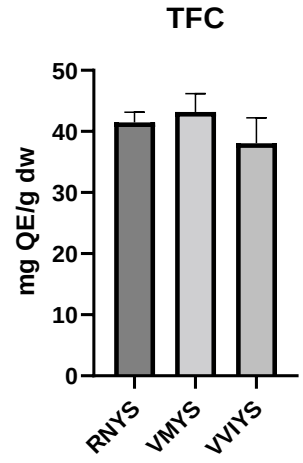

Figure S2. Statistical comparison for results of total flavonoid content (TFC) for optimized young shoots extracts of *Ribes nigrum* (RNYS), *Vaccinium myrtillus* (VMYS), and *Vaccinium vitis-idaea* (VVIYS). All values are expressed as mean ± SD (n = 3). Statistical analysis was performed using a one-way ANOVA test, with Tukey's multiple comparisons post-test. Statistical significance was considered for $p < 0.05$.

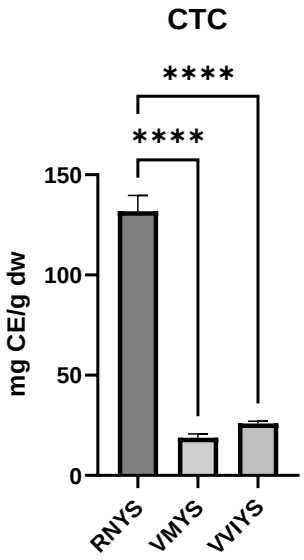

Figure S3. Statistical comparison for results of condensed tannin content (CTC) for optimized young shoots extracts of Ribes nigrum (RNYS), Vaccinium myrtillus (VMYS), and Vaccinium vitis-idaea (VVIYS). All values are expressed as mean ± SD (n = 3). Statistical analysis was performed using a one-way ANOVA test, with Tukey's multiple comparisons post-test (**** $p < 0.0001$).

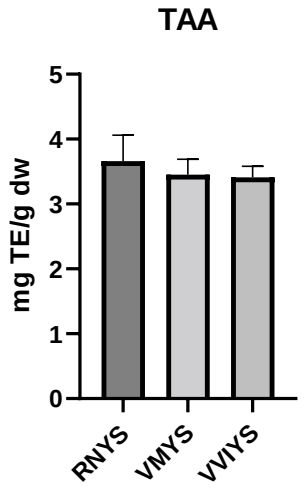

Figure S4. Statistical comparison for results of total antioxidant activity evaluated by DPPH assay (TAA) for optimized young shoots extracts of *Ribes nigrum* (RNYS), *Vaccinium myrtillus* (VMYS), and *Vaccinium vitis-idaea* (VVIYS). All values are expressed as mean ± SD (n = 3). Statistical analysis was performed using a one-way ANOVA test, with Tukey's multiple comparisons post-test. Statistical significance was considered for $p < 0.05$.