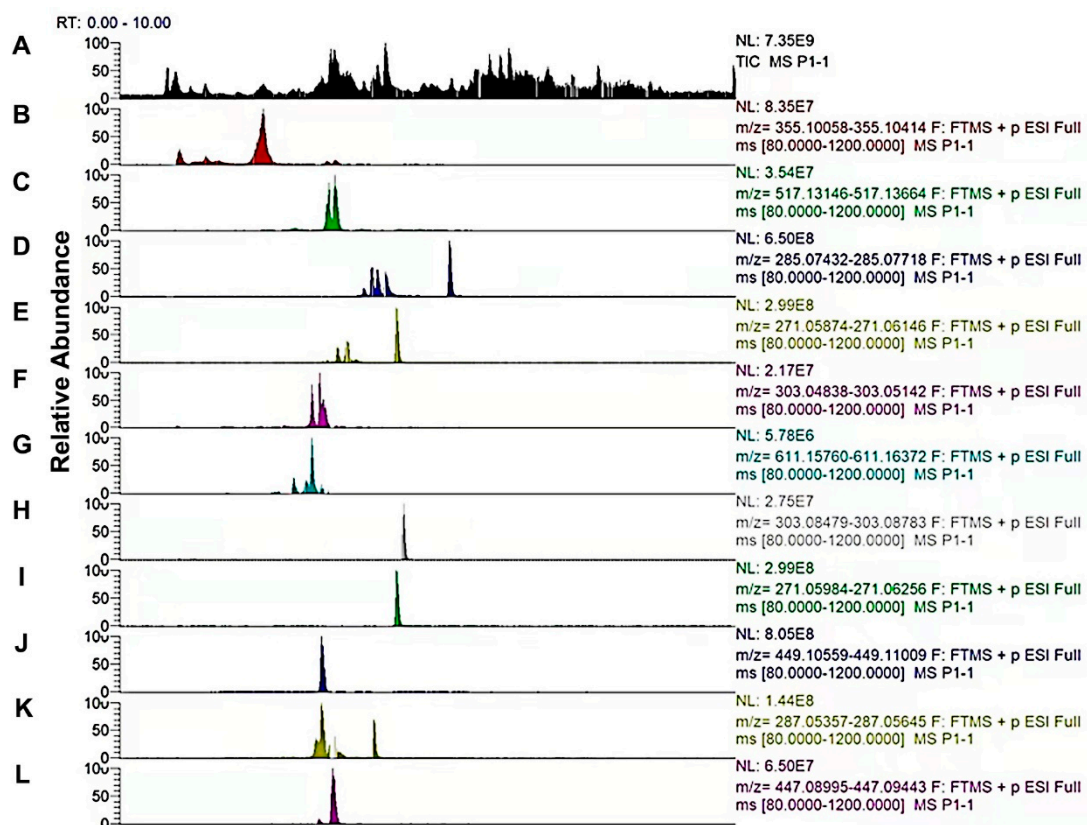


Supplementary Figure S1. The color reaction of flavonoids in the ray florets of PC and YM. The experiment of petroleum ether (A) , HCl (B) , $\text{NH}_3 \cdot \text{H}_2\text{O}$ (C) , Al_2O_3 (D) , $(\text{CH}_3\text{COO})_2\text{Pb} \cdot 3\text{H}_2\text{O}$ (E) , FeCl_3 (F) , H_2SO_4 (G) , NaBH_4 (H) , Na_2CO_3 (I) , H_3BO_3 (J) , $\text{SrCl}_2 \cdot 6\text{H}_2\text{O}$ (K) in the ray florets of PC and YM.



Supplementary Figure S2. The HPLC chromatograms of the standards in the ray florets of PC and YM(A). The relative abundance of chlorogenic acid (B), isochlorogenic acid (C), acacetin (D), apigenin (E), quercetin (F), rutin (G), hesperetin (H), naringenin (I), galuteolin (J), luteolin (K) and baicalin (L) in ray florets of PC and YM.

Supplemental Table S1. Primers used in this study.

Primer name	Primer sequence
CmPSY(qPCR)-F	GGATGAGATTGAAGCTAATGATT
CmPSY(qPCR)-R	GATGATGCTGGCACAAGTGATTT
CmPDS(qPCR)-F	TTTCATTTGGACGAGCCGATT
CmPDS(qPCR)-R	GGTCTGGGCGTGGATAGTCG
CmLCYB(qPCR)-F	AGAGCTTGTACCCGAAATCA
CmLCYB(qPCR)-R	CTACAGCTAAACCCGAAGGA
CmLCYE(qPCR)-F	GGAGCGGCTTCGGGTAAACTTCTGCAA
CmLCYE(qPCR)-R	CTCTCTTGAAGCCAGACAGGTTTCCTC
CmECH(qPCR)-F	CTGGAGCATTGGCGTTTT
CmECH(qPCR)-R	CAAGAGCAGCCAGAAGCAC
CmCCD4(qPCR)-F	ACAGGATCATACAGTTGCTAGTCGG
CmCCD4(qPCR)-R	GCACATAAGACACCACATACCC
CmNXS(qPCR)-F	CCCAGAAAACAAATCAACC
CmNXS(qPCR)-R	CAACCCAAGACCCATAAT
CmPAL(qPCR)-F	GTGGGTGATGGTGATGTGGTC
CmPAL(qPCR)-R	CAAAGCGATCTGTAACAAGTGC
CmDFR(qPCR)-F	ACATTGGCGGAGAAAGCAGC
CmDFR(qPCR)-R	AGACTTGGTGGGAACGAGGG
CmFLS(qPCR)-F	GAAATGGGGAAGAAAGTGGGTG
CmFLS(qPCR)-R	ACTCCAACCTCCCGGCACCA
CmANR(qPCR)-F	CACTCAGACATGGAGGGACG
CmANR(qPCR)-R	TAGCCAAGGTAGGTGAGTCGG
CmFS(qPCR)-F	CAGTCTGGCGGTCCATCAGC
CmFS(qPCR)-R	TAGTGGCAGTAGTAGGATGGG
CmUbi(qPCR)-F	CTAATGAATGCTTACTGTGACCGAC
CmUbi(qPCR)-R	AGGCGAATCATCAGTACCAAGTG