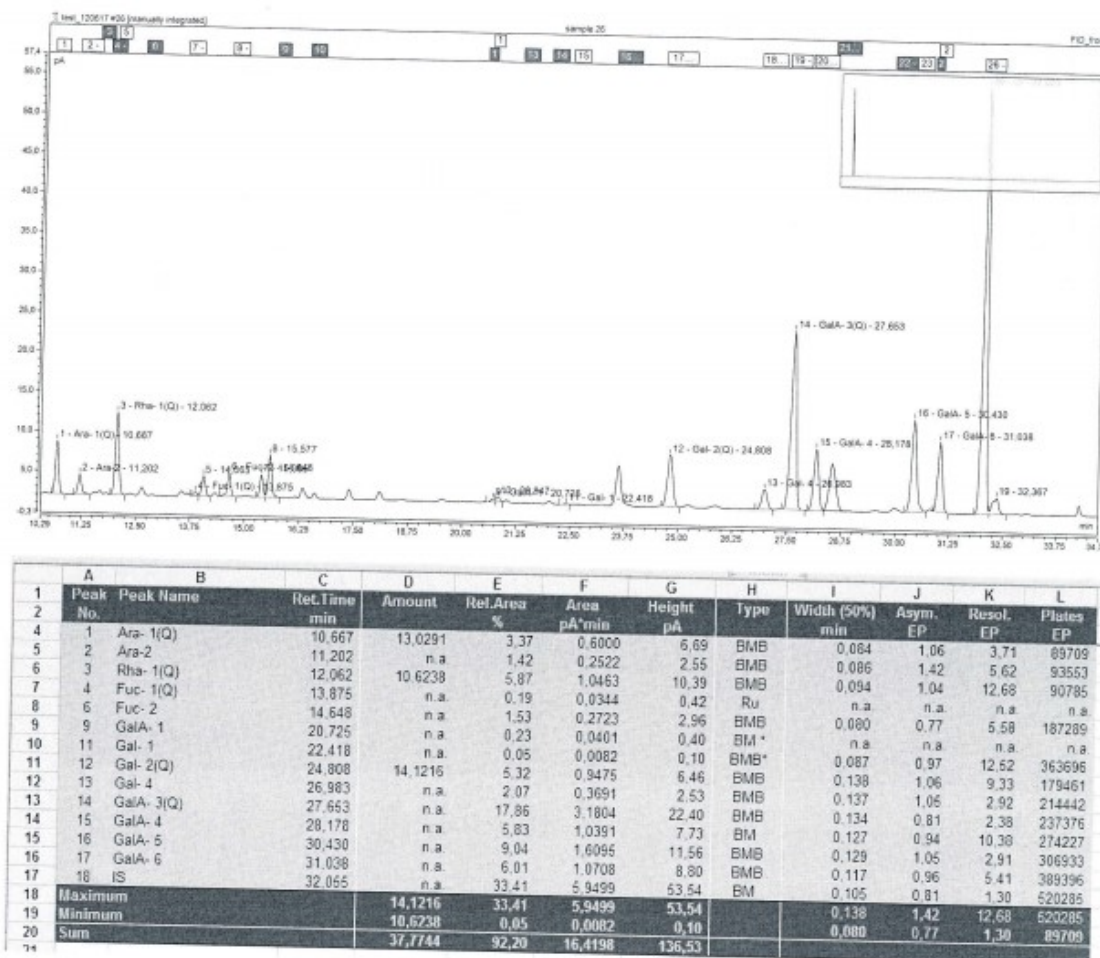
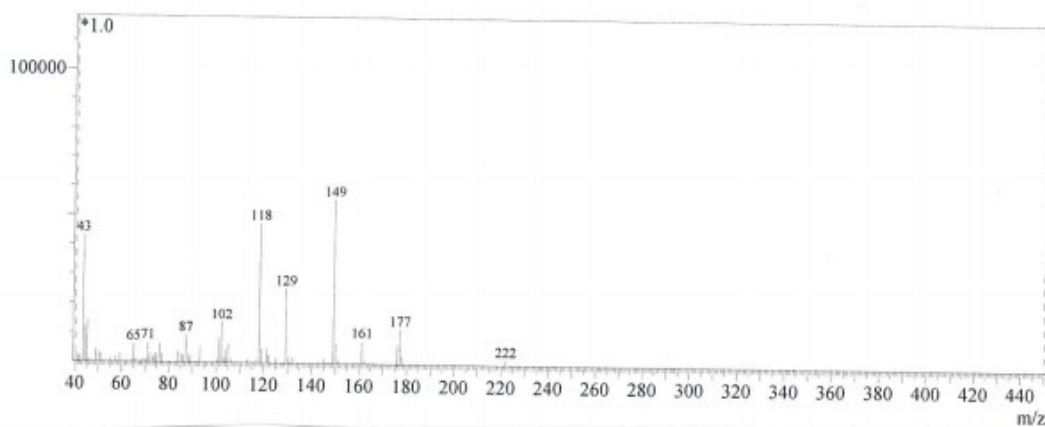


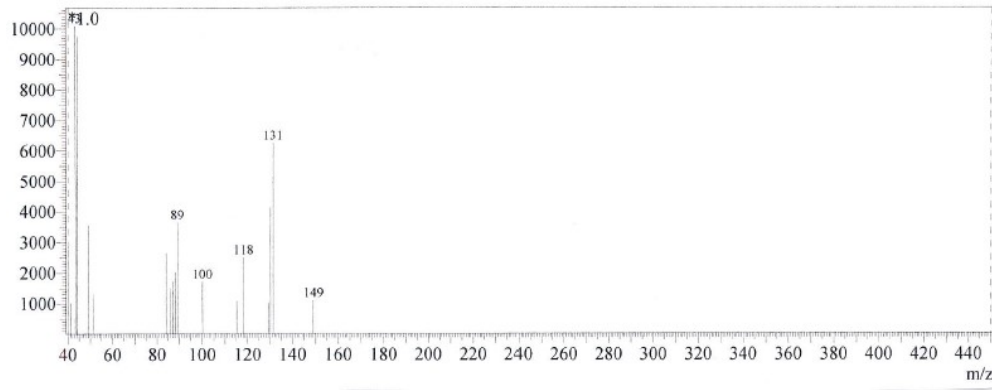
Supplement data



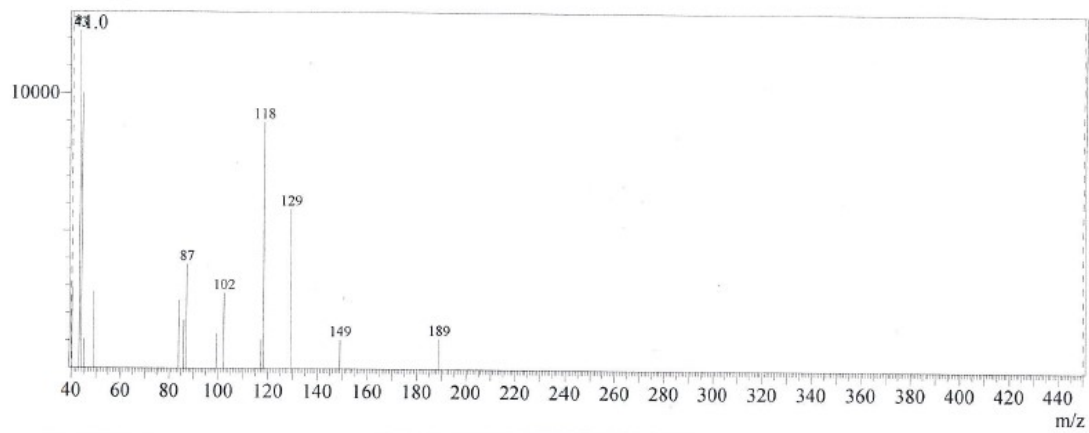
Supplementary Figure.1 GC chromatography for monosaccharide determination.



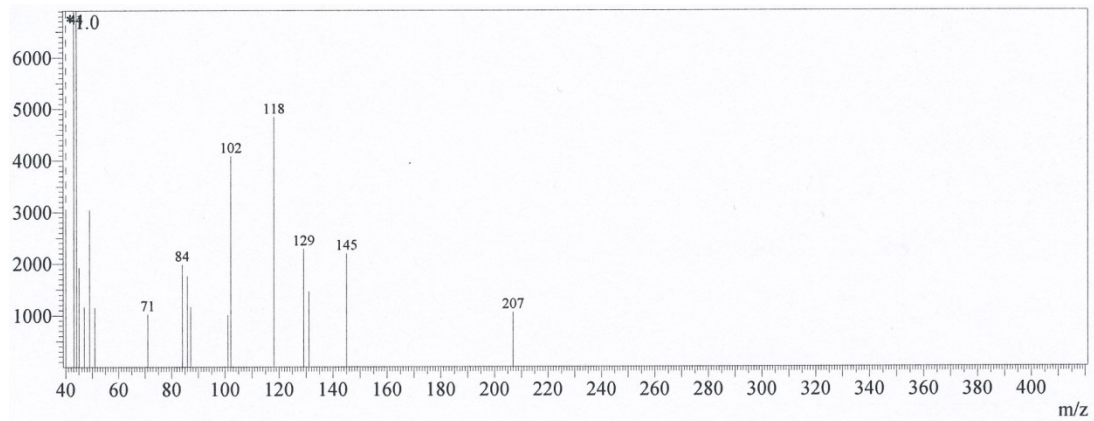
Supplementary Figure.2 Mass Spectra of terminal linked Arabinose



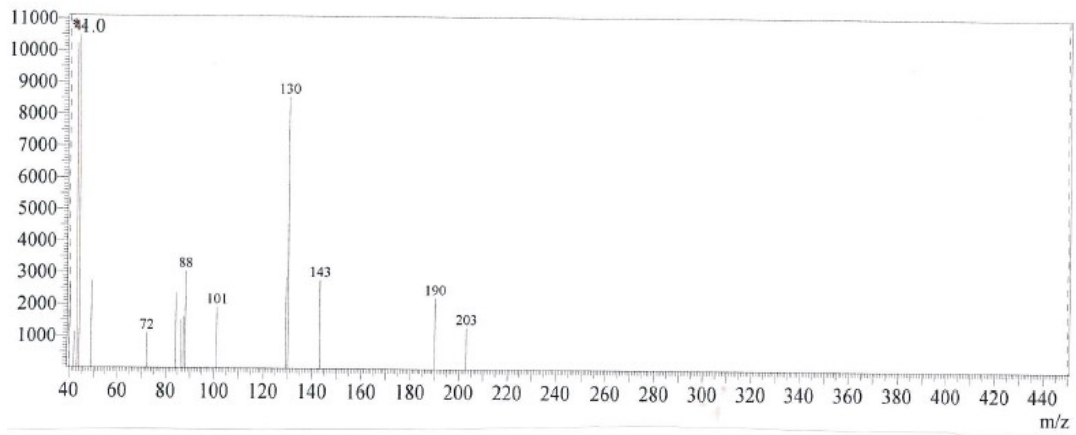
Supplementary Figure.3 Mass spectra for 1,3 linked Rhamnose



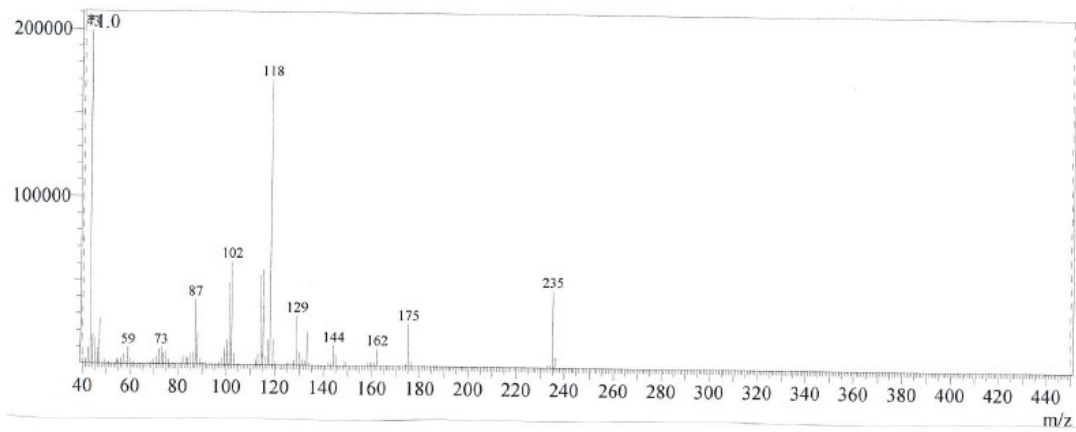
Supplementary Figure.4 Mass spectra for 1,5 linked arabinose



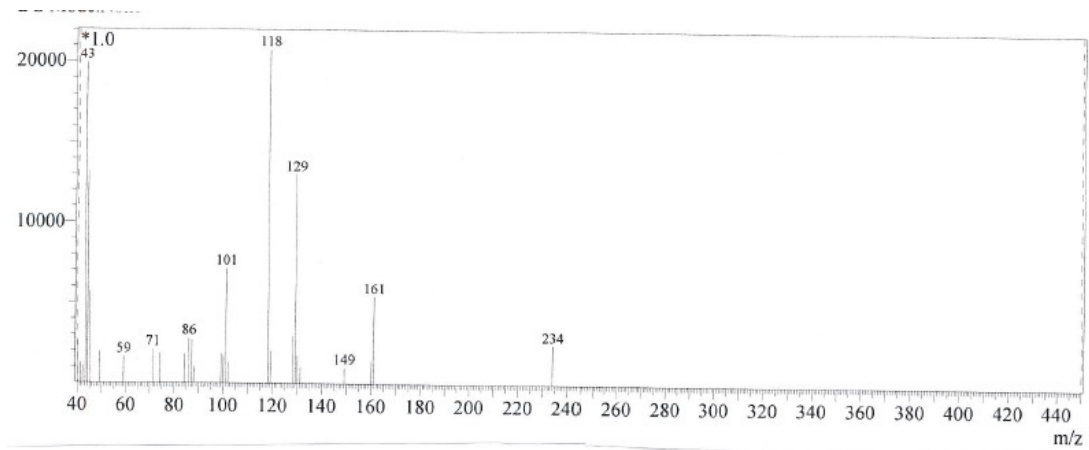
Supplementary Figure.5 Mass spectra for terminal linked galacturonic acid



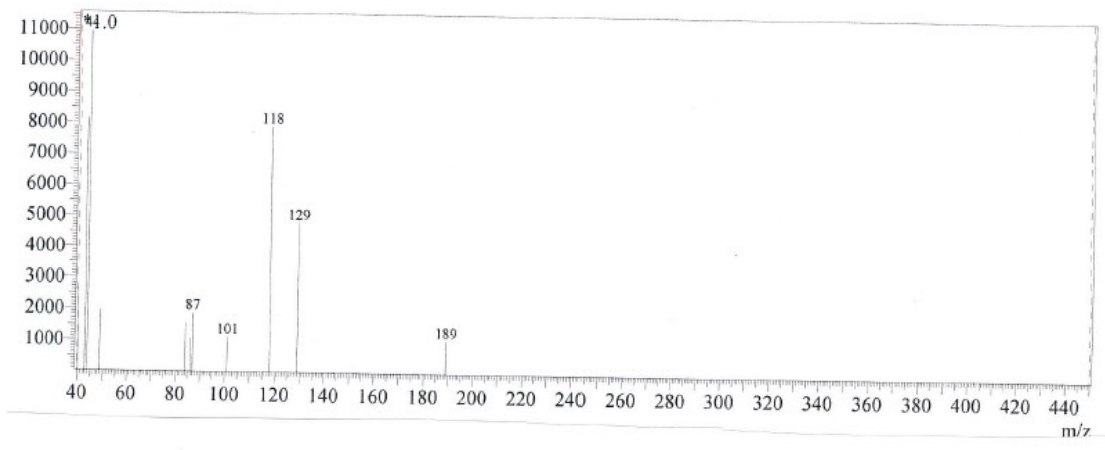
Supplementary Figure. 6, Mass spectra for 1,2,4 linked Rhamnose



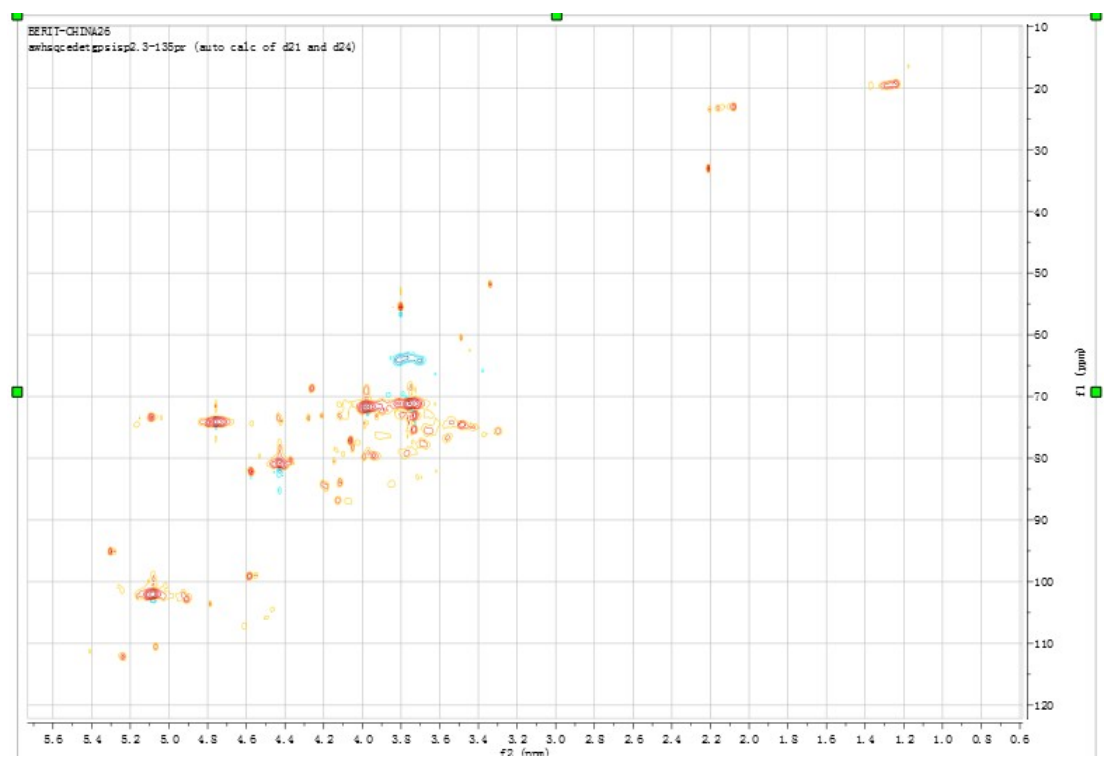
Supplementary Figure.7 Mass spectra for 1, 4 linked galacturonic acid



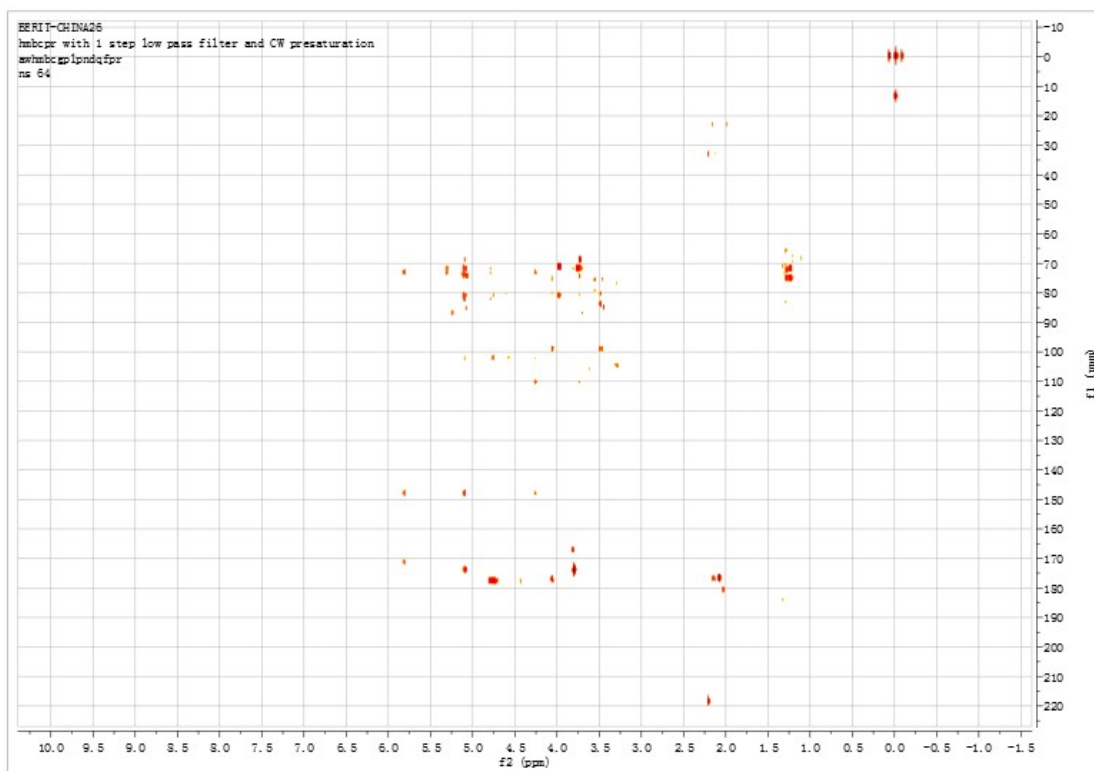
Supplementary Figure.8 Mass spectra for 1, 3 linked galactose



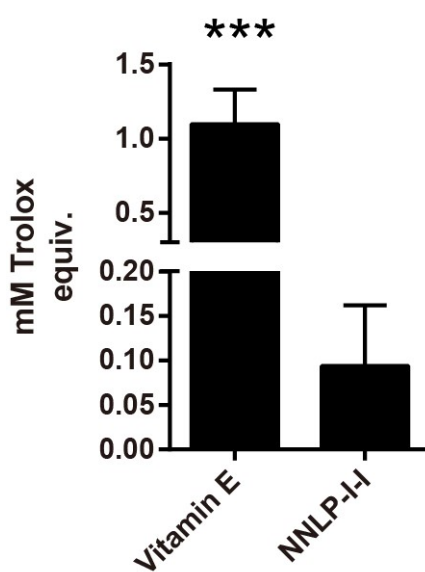
Supplementary Figure.9 Mass spectra for 1, 3,6 linked galactose



Supplementary Figure.10 HSQC NMR spectra of NNLP-I-I



Supplementary Figure.11 HMBC NMR spectra of NNLP-I-I



Supplementary Figure. 12. *In vitro* assay displays little antioxidant capacity of NNLP-I-I (50mg/ml) itself compared with Vitamin E (1mM). N=3.