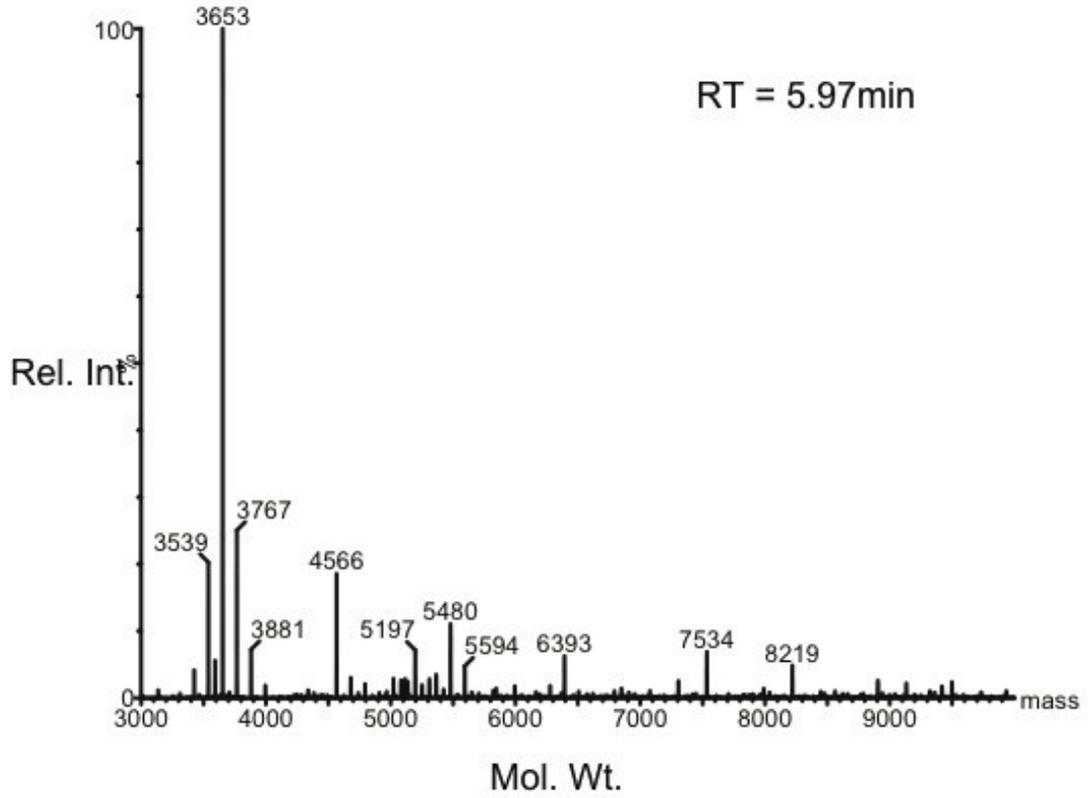
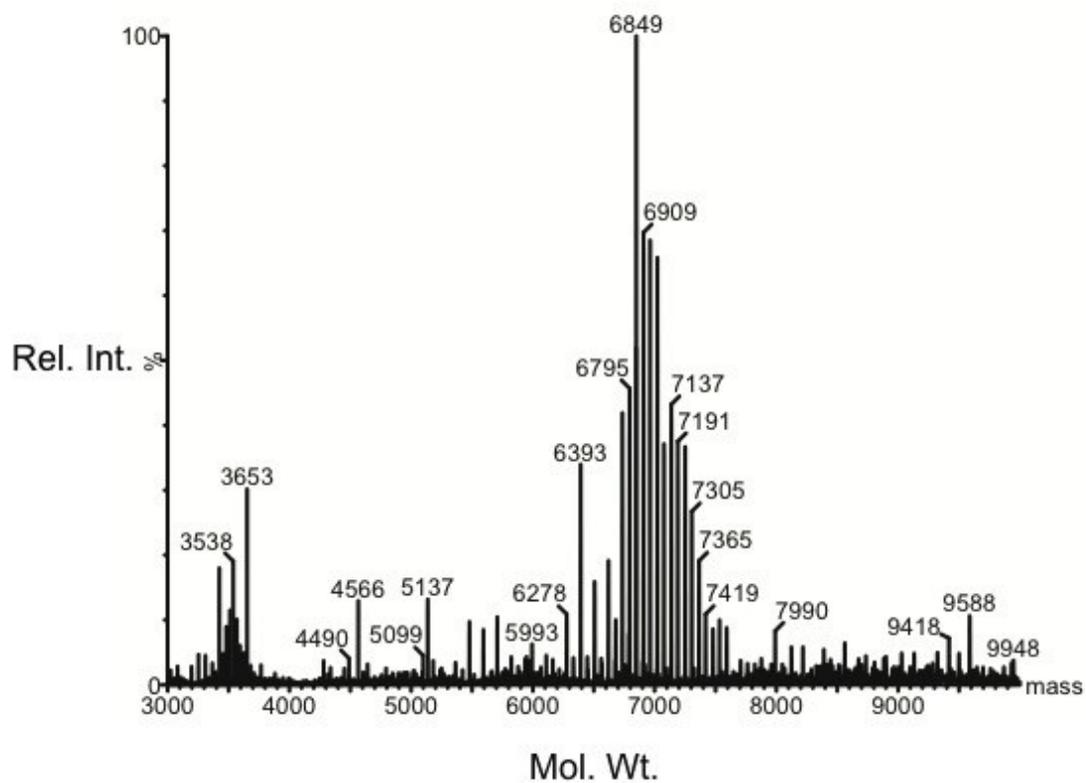


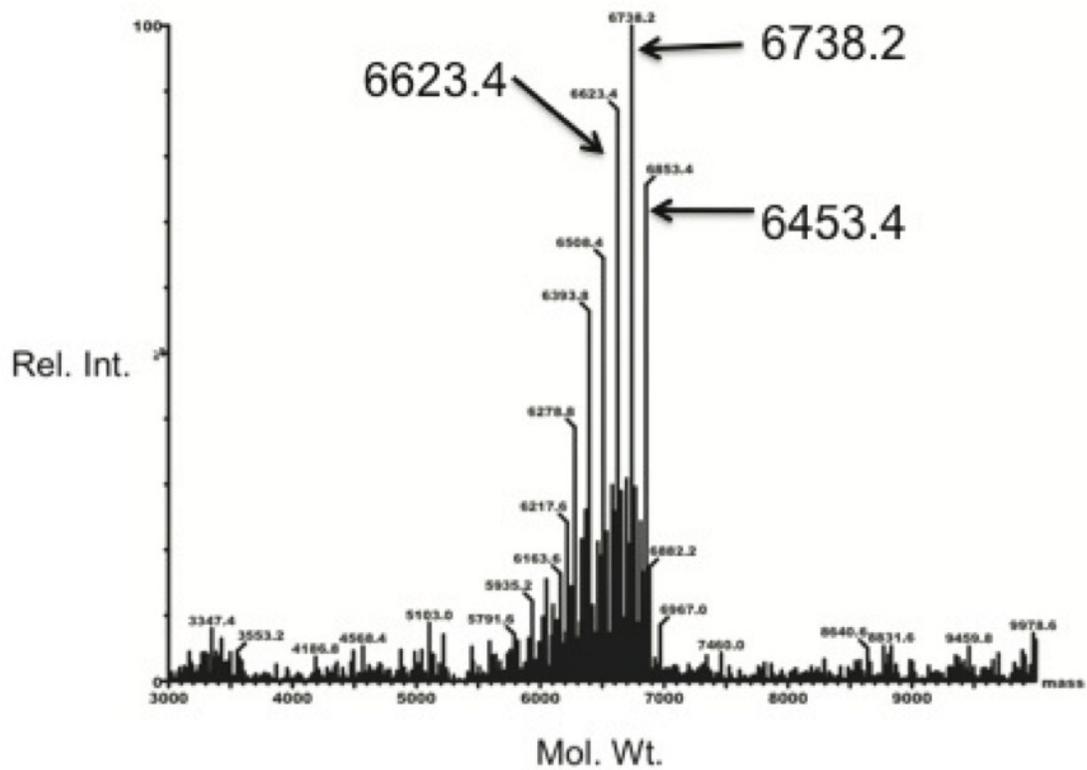
Supplementary Figure 1. ESI/LC/MS TIC chromatogram of all amino-G3 PAMAM dendrimer at initial state.



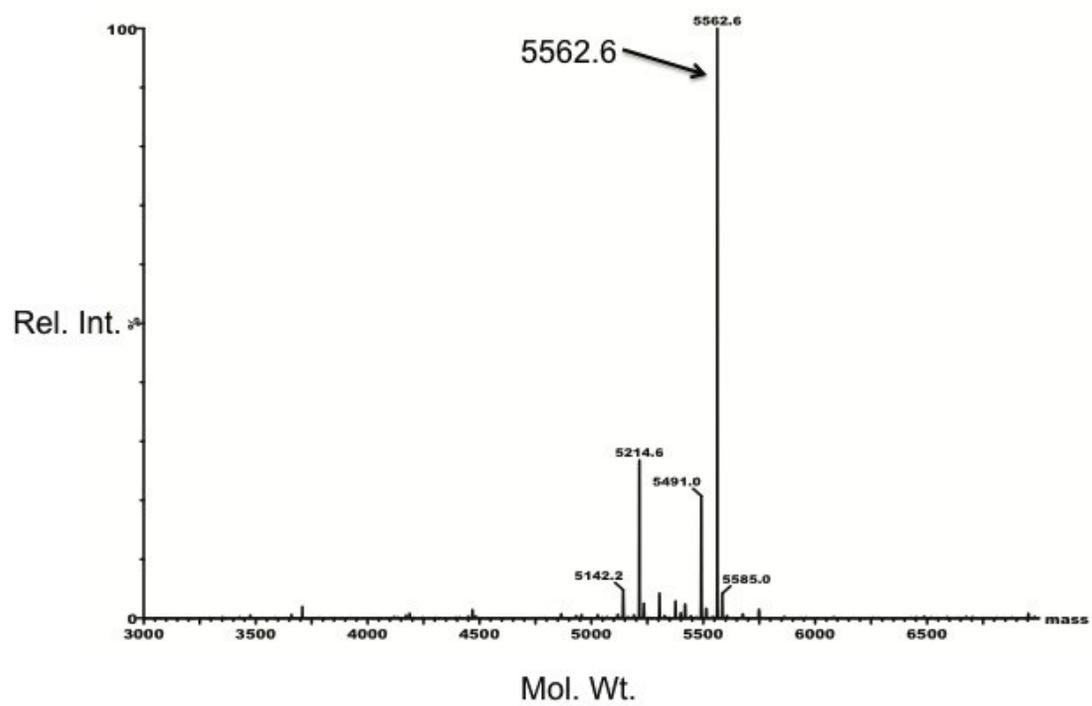
Supplementary Figure 2. ESI/MS of the LC peak RT= 5.97 min. after 3 freeze-thaw cycles.



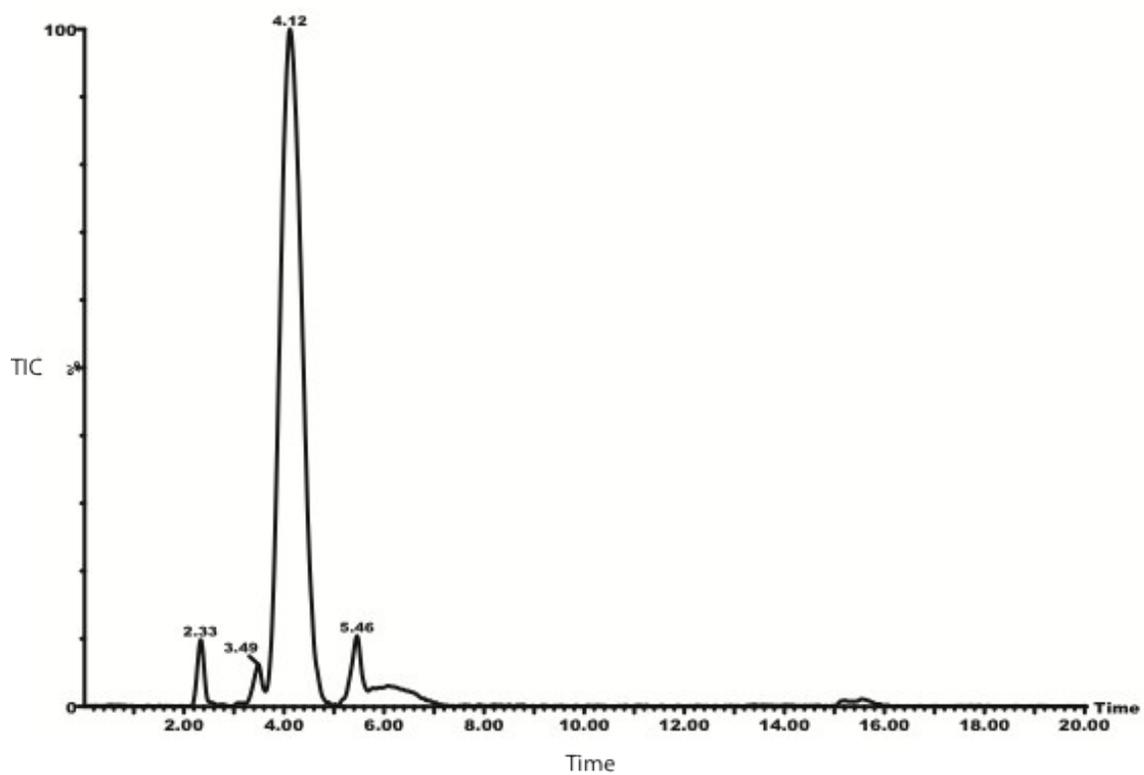
Supplemental Figure 3. ESI/MS spectrum of LC peak at RT=6.0 min. of all-amino-G3 PAMAM dendrimer after 3x freeze-thaw cycles.



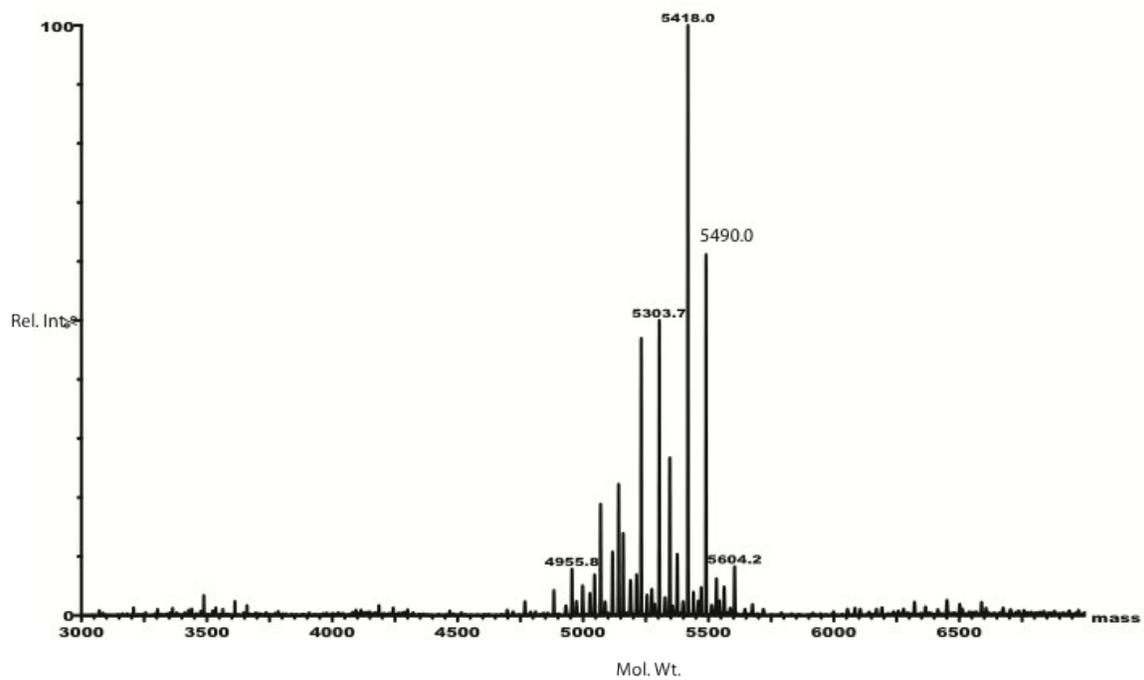
Supplemental Figure 4. ESI/MS of all-hydroxy-G3 PAMAM dendrimer.



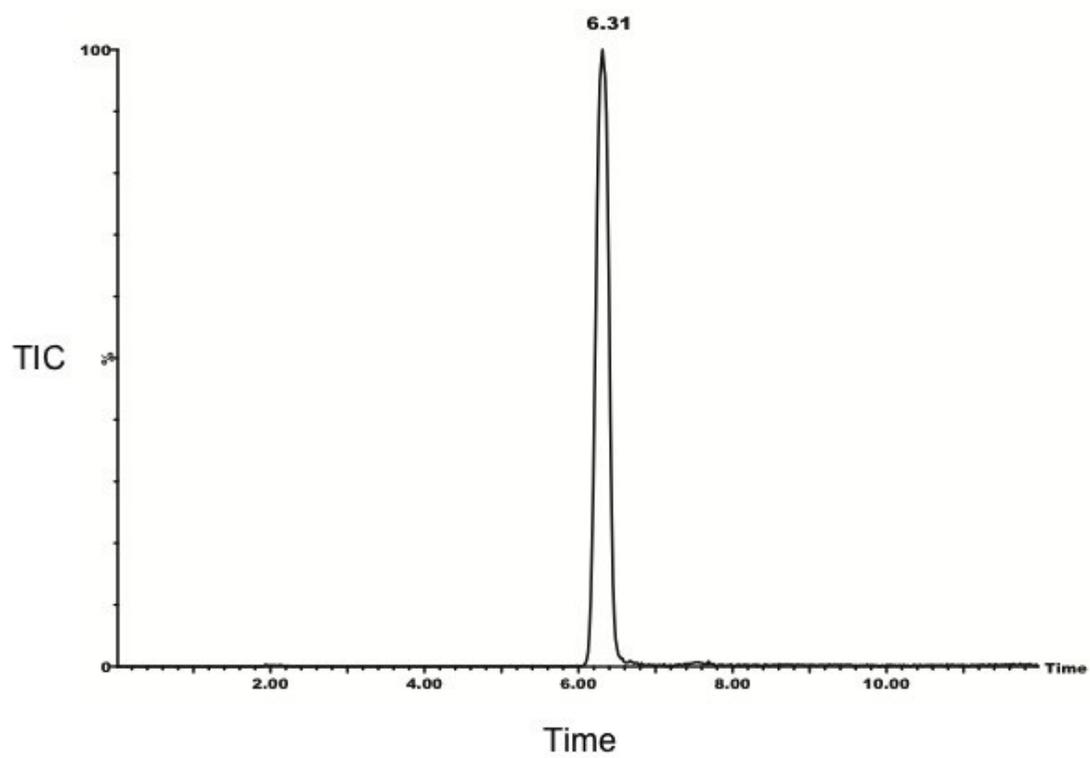
Supplemental Figure 5. ESI/MS of all carboxy-G3 PAMAM dendrimer.



Supplemental Figure 6. LC/ESI/MS TIC trace of all-carboxy-G3 PAMAM dendrimer provided in methanol solution.



Supplemental Figure 7. ESI/MS of degraded all-carboxy-G3 PAMAM dendrimer.



Supplemental Figure 8. LC/ESI/MS TIC plot of an isolated impurity from all-carboxy-G3 PAMAM dendrimer.