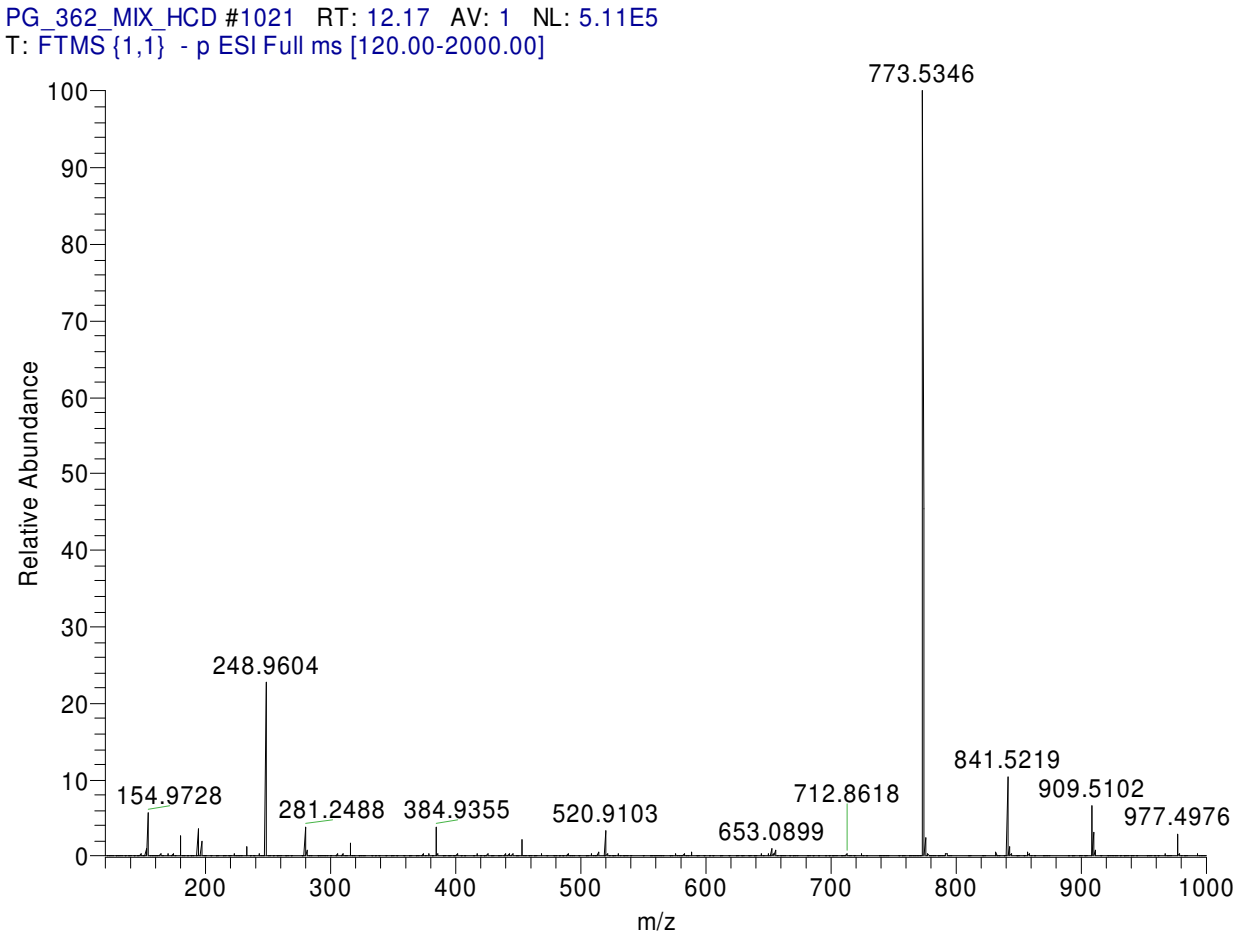
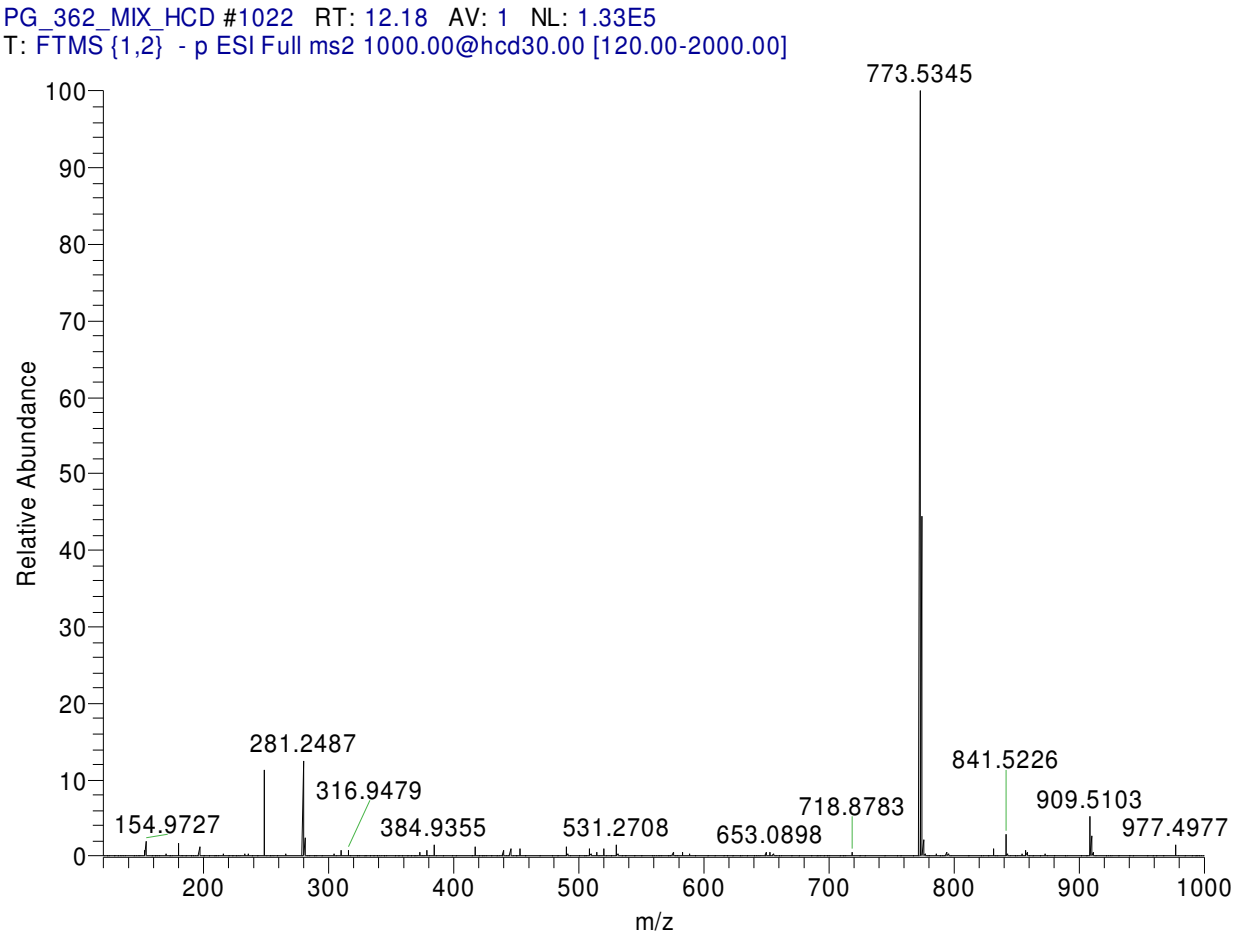
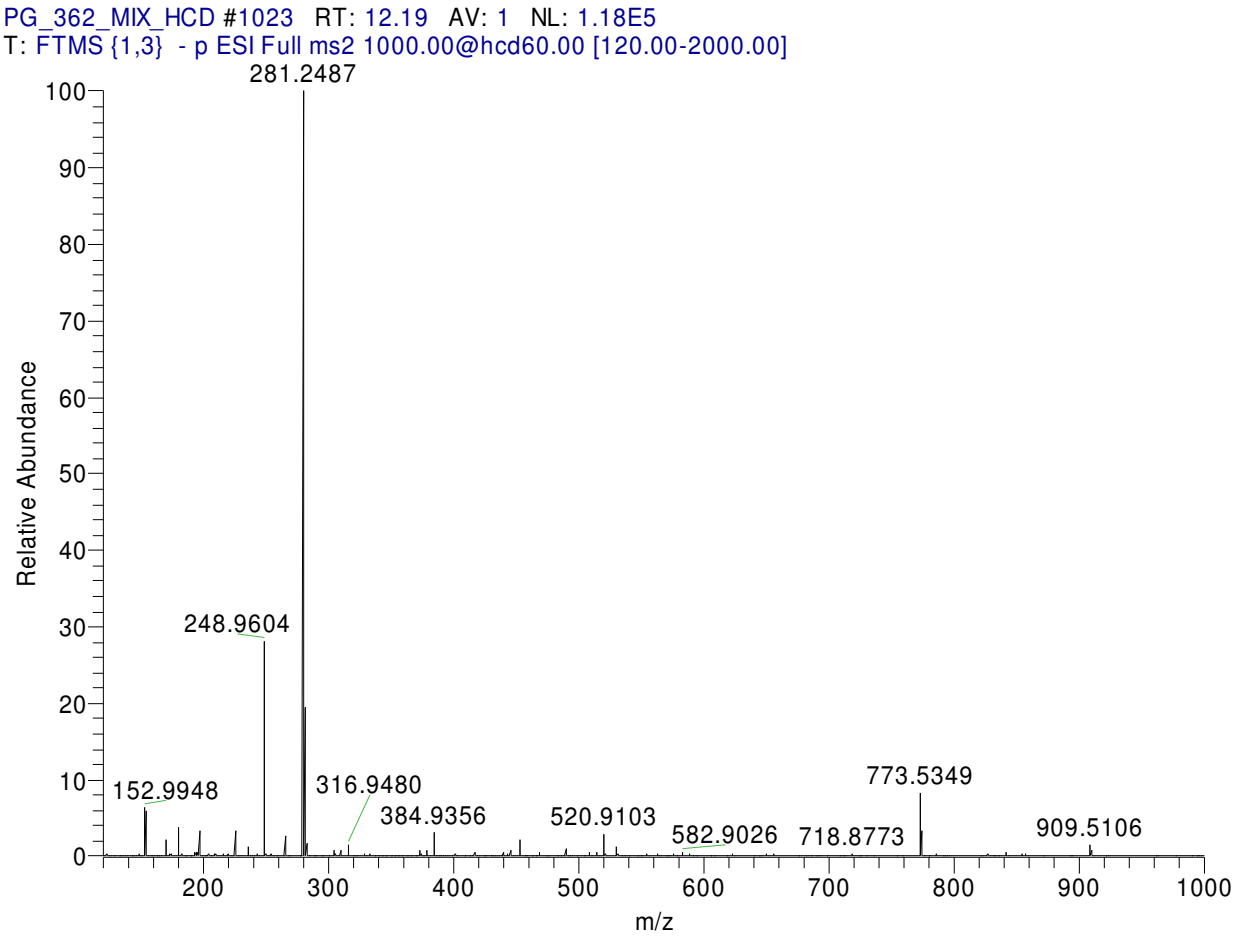


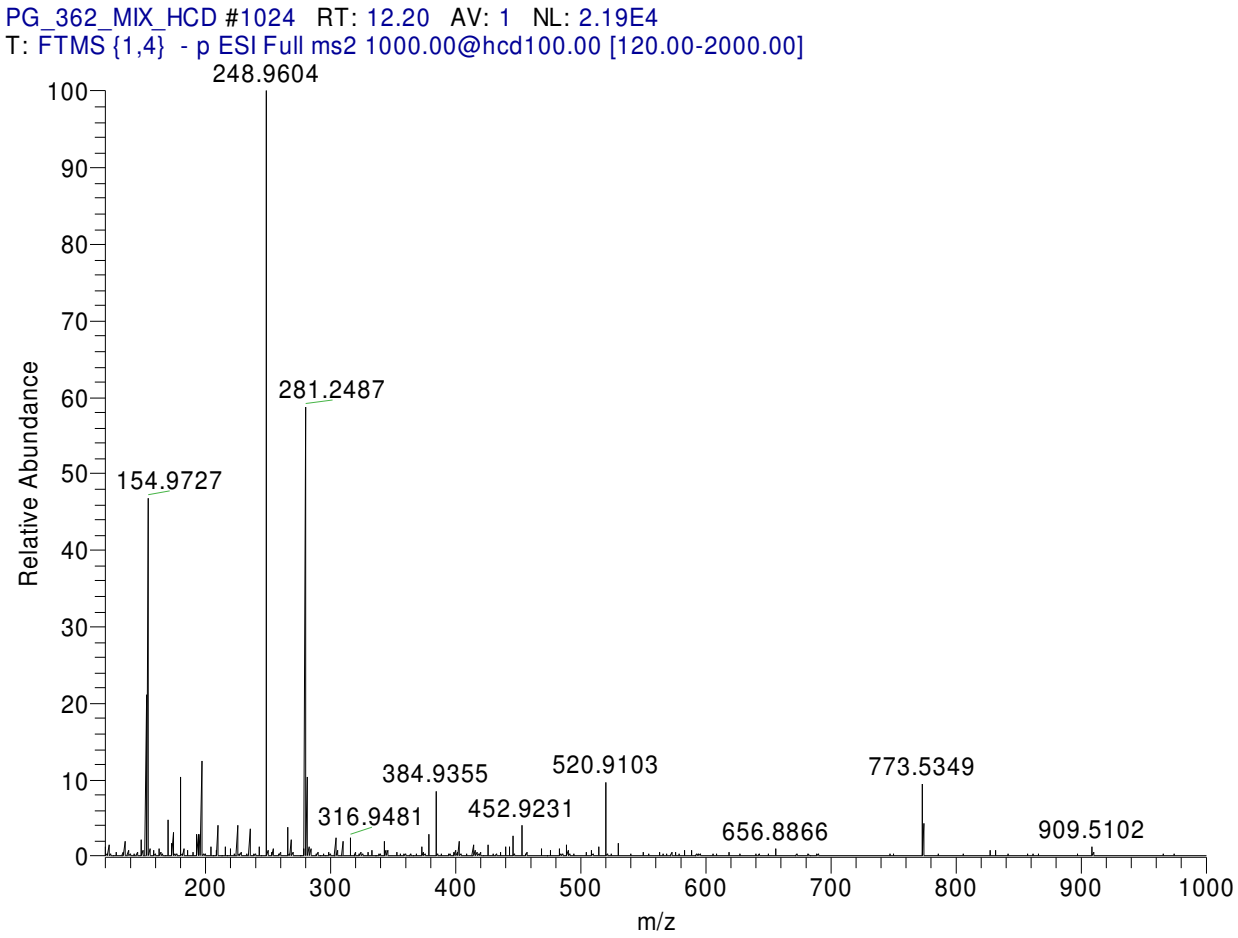

Supplementary Figure 1a. Cis Isomer Full Scan MS



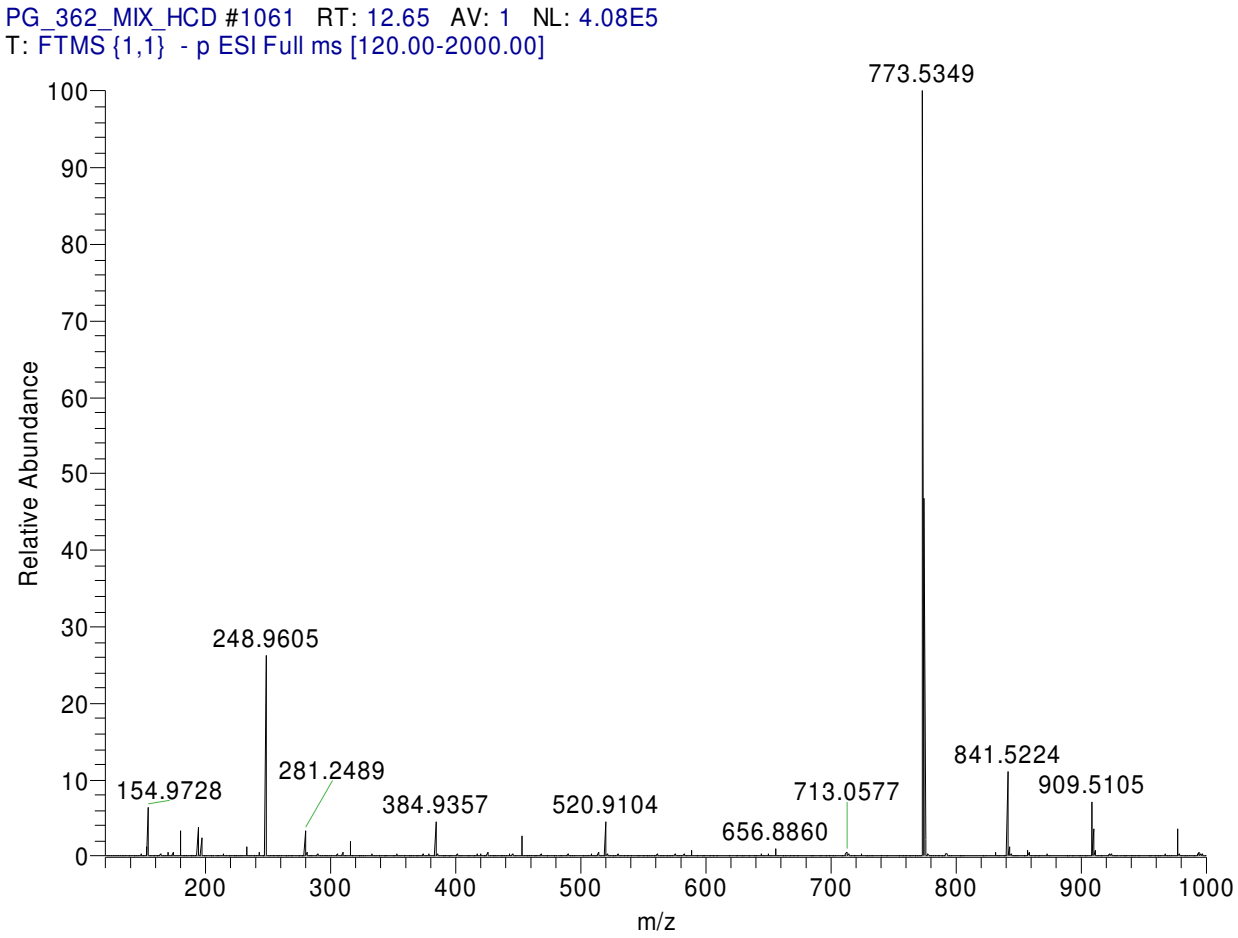

Supplementary Figure 1b. Cis Isomer 30 eV HCD



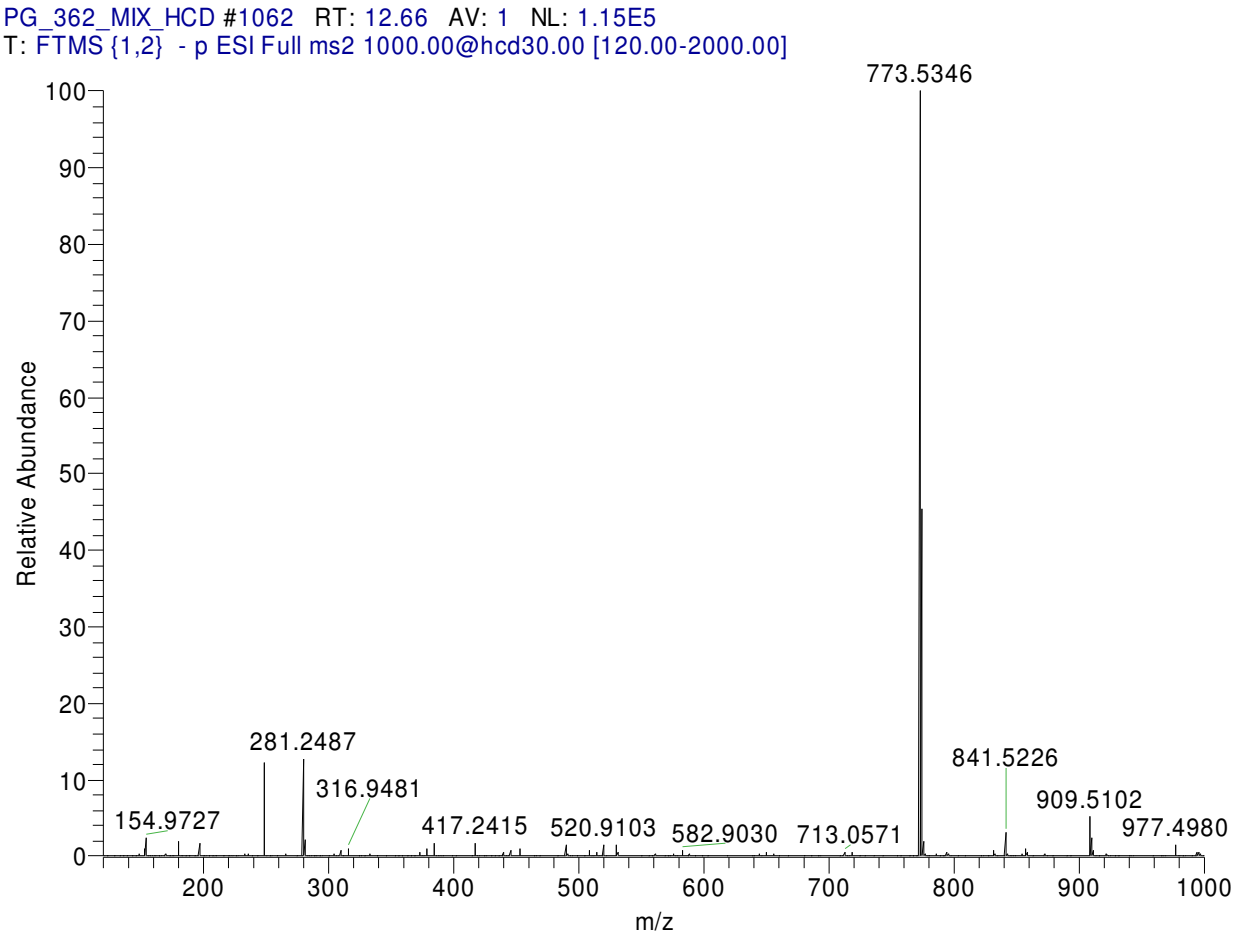

Supplementary Figure 1c. Cis Isomer 60 eV HCD



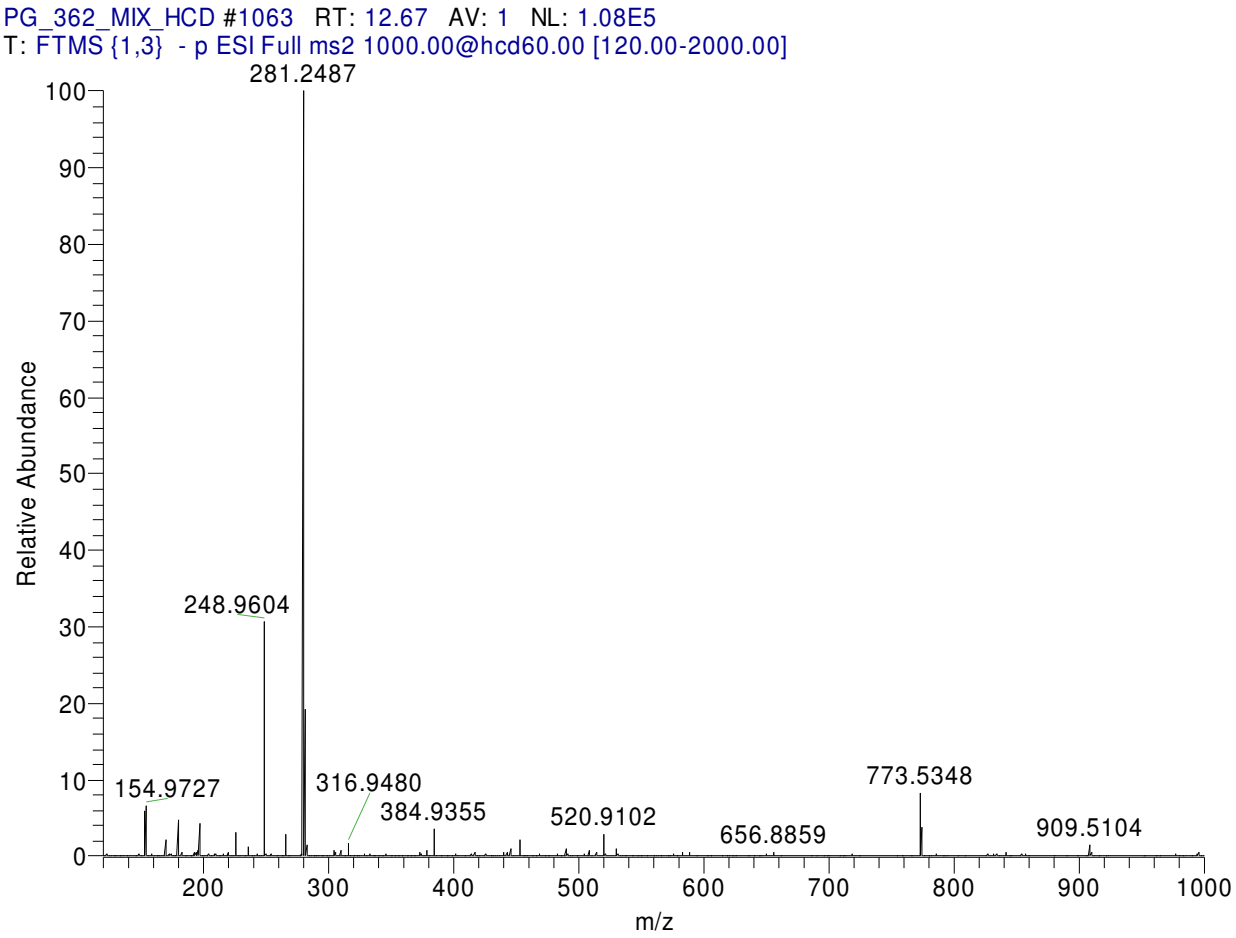

Supplementary Figure 1d. Cis Isomer 100 eV HCD




Supplementary Figure 2a. *trans* Isomer full scan MS

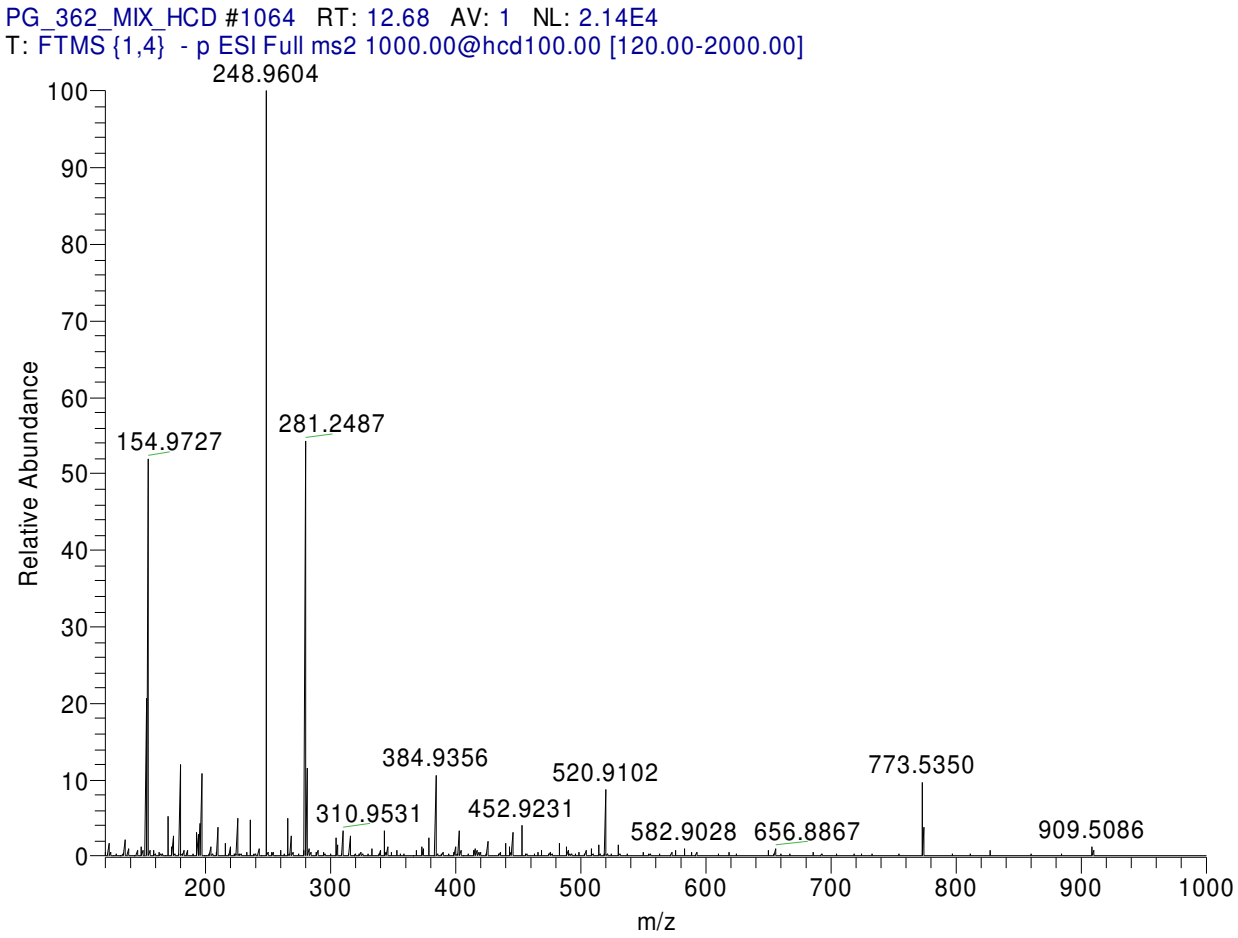



Supplementary Figure 2b. *trans* Isomer 30 eV HCD



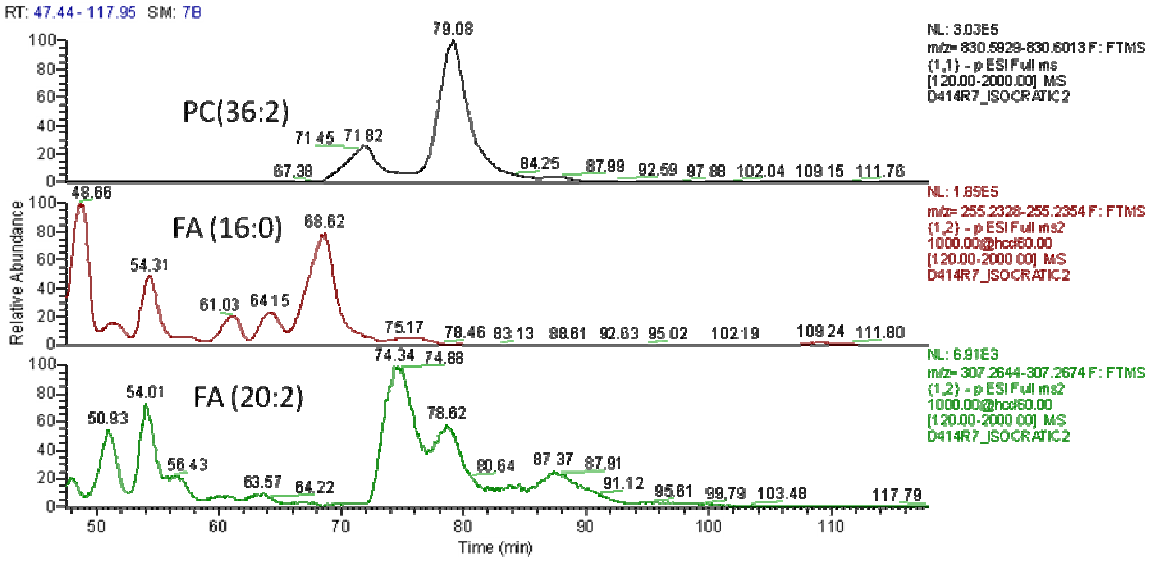

Supplementary Figure 2c. *trans* Isomer 60 eV HCD

Supplementary Figure 1f. *trans* Isomer 30 eV HCD



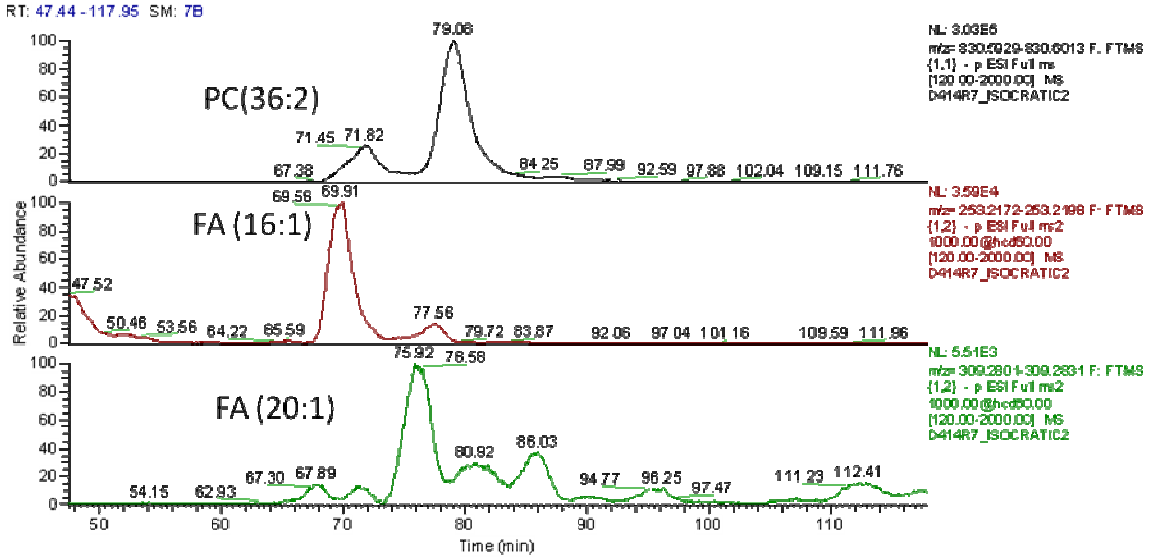

Supplementary Figure 2d. *trans* Isomer 100 eV HCD

Supplementary Figure 2a.
XICs for PC(36:2)



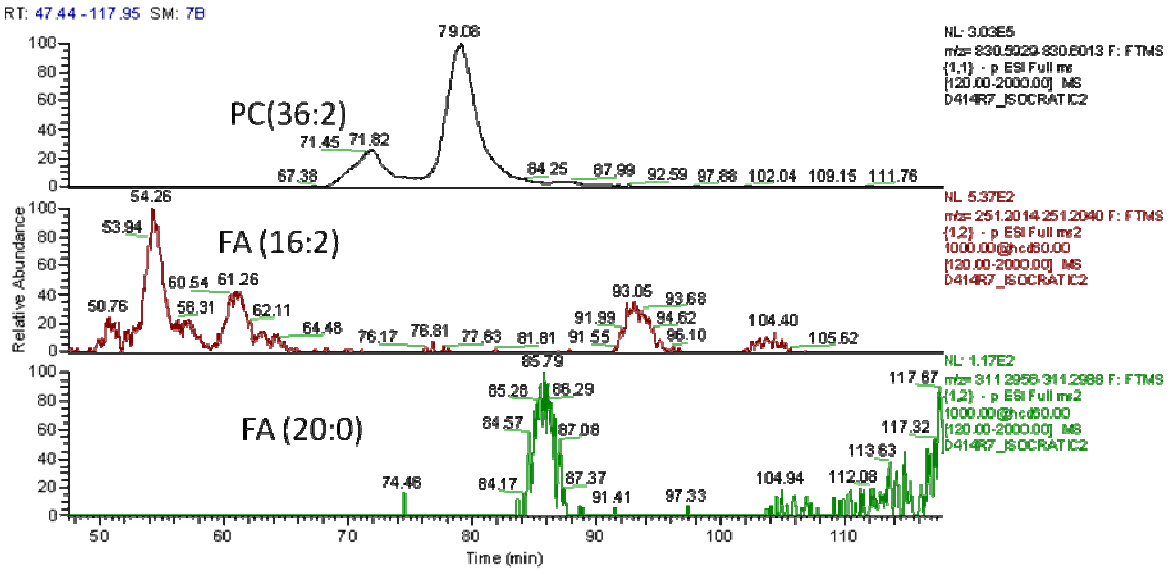

Supplementary Figure 2a PC(36:2) XIC aligned with FA(16:0) and FA (20:2) fragments.

Supplementary Figure 2b.
XICs for PC(36:2)



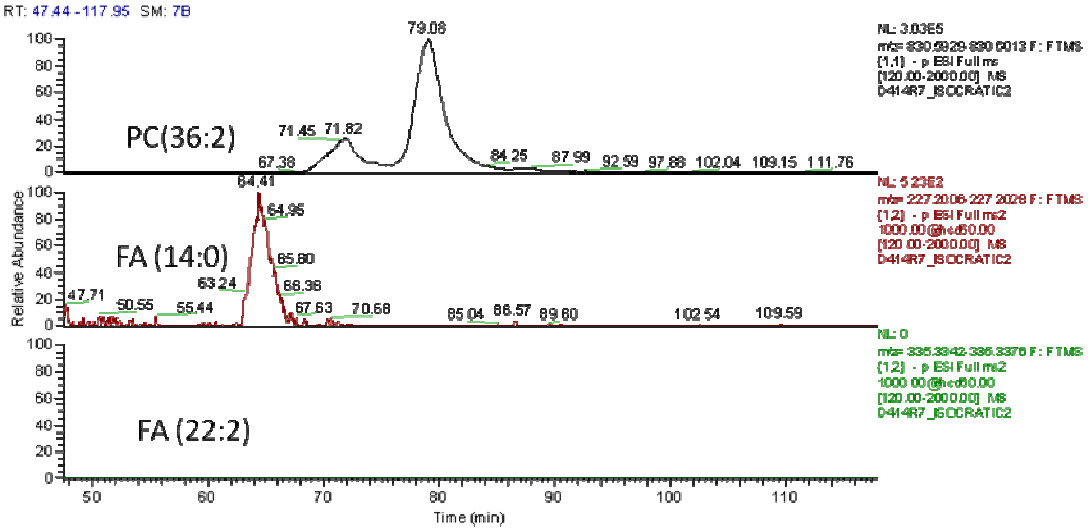

Supplementary Figure 2b PC(36:2) XIC aligned with FA(16:1) and FA (20:1) fragments.

Supplementary Figure 2c.
XICs for PC(36:2)



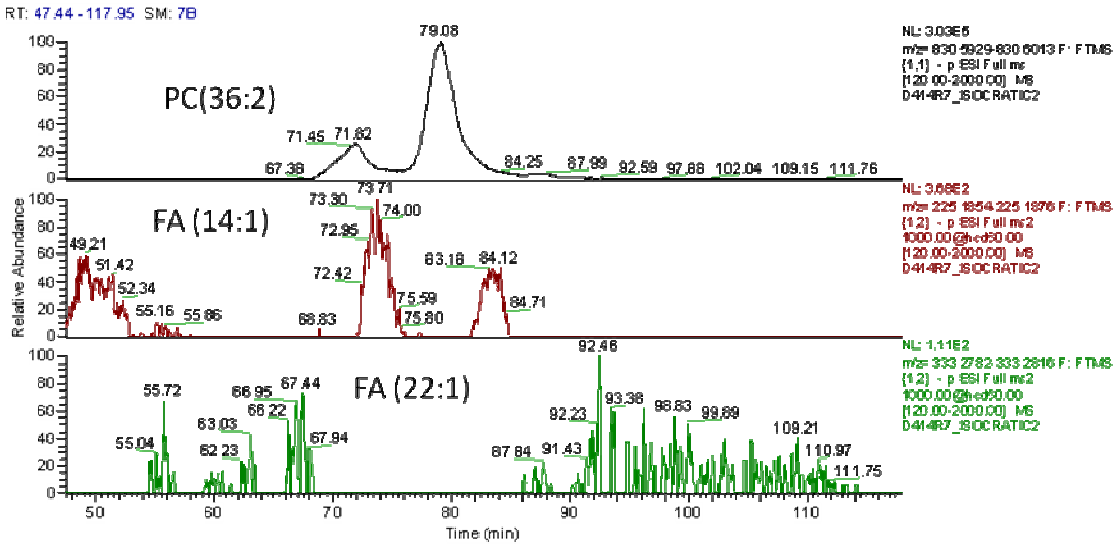

Supplementary Figure 2c PC(36:2) XIC aligned with FA(16:2) and FA (20:0) fragments.

Supplementary Figure 2d.
XICs for PC(36:2)




Supplementary Figure 2d PC(36:2) XIC aligned with FA(14:0) and FA (22:2) fragments.

Supplementary Figure 2c.
XICs for PC(36:2)




Supplementary Figure 2e PC(36:2) XIC aligned with FA(14:1) and FA (22:1) fragments.