



**Figure S1: detector responses of PA references in comparison to D3-atropine as IS.**

Response of standard-PAs: intermedine (IM), lycopsamine (LY), intermedine N-oxide (IMO), retrorsine (RT), retrorsine N-oxide (RTO), D3-atropine (IS), senecionine (SC), echimidine (EM) and echivulgarine (EV), 500pg on-column, each, solved in methanol ( $c=0.1\mu\text{g/mL}$ ).