Supporting Information for
Unexpected Formation of Polysubstituted 1-Azabutadienes and
1,3-Dioxanes from the Reaction of 3-Fluoroalkyl-3-arylaminoacrylic
Acid Esters with Formaldehyde

Fu-Lu Zhao, Jin-Tao Liu*

Key Laboratory of Organofluorine Chemistry, Shanghai Institute of Organic Chemistry, Chinese

Academy of Sciences, 354 Fenglin Road, Shanghai 200032, China

Table of Contents:

DEPT 135° spectra of 2a	S2
H-C COSY spectra of 2a	S3
H-H COSY spectra of 2a	S4
General Experimental Methods.....	S5
X-ray data of 3g	S6

General Experimental Methods:

Melting points were uncorrected. Infrared spectra were recorded as a liquid film or as KBr pellets. All IR data are reported in wavenumbers (cm^{-1}). ^1H NMR spectra were recorded at 300 MHz. ^{19}F NMR spectra were taken on a 282 MHz spectrometer using CFCl_3 as external standard. ^{13}C NMR were recorded at 75 MHz or 100 MHz or 125 MHz. ^1H NMR and ^{13}C NMR data are reported in parts per million (δ) downfield from tetramethylsilane. Column chromatography was performed on silica gel H, particle size 10-40 μ .

X-ray data for compound **3g**: $\text{C}_{13}\text{H}_{13}\text{Cl}_2\text{F}_2\text{NO}_4$, $M = 356.14$. Triclinic, $a = 7.9132$ (12), $b = 9.9342$ (16), $c = 10.9874$ (18) Å, $V = 754.9$ (2) Å³, $D_x = 1.567$ g/cm³, crystal size: $0.508 \times 0.347 \times 0.231$ mm. Data were measured at 293K on a Bruker SMART CCD diffractometer with graphite monochromated MoK α radiation.