Supporting Information
for
Photoinduced synthesis of unsymmetrical diaryl selenides from triarylbismuthines and diaryl diselenides
Yohsuke Kobiki, Shin-ichi Kawaguchi, Takashi Ohe and Akiya Ogawa*

Address: Department of Applied Chemistry, Graduate School of Engineering,
Osaka Prefecture University, 1-1 Gakuen-cho, Nakaku, Sakai, Osaka 599-8531,
Japan

Email: Akiya Ogawa - ogawa@chem.osakafu-u.ac.jp

* Corresponding author

Spectral and analytical data of the new compound 3cb
4-Tolyl 4-(trifluoromethyl)phenyl selenide (3cb): white solid; mp 104–105 °C;
$^1$H NMR (400 MHz, CDCl$_3$) $\delta$ 2.37 (s, 3H), 7.17 (d, $J$ = 7.8 Hz, 2H), 7.36 (d, $J$ = 8.2 Hz, 2H), 7.42 (d, $J$ = 8.2 Hz, 2H), 7.48 (d, $J$ = 7.8 Hz, 2H); $^{13}$C NMR (100 MHz, CDCl$_3$) $\delta$
21.2, 124.1 (q, $J_{C-F} = 271.7$ Hz), 124.5, 125.5 (q, $J_{C-F} = 3.9$ Hz), 128.4 (q, $J_{C-F} = 32.6$
Hz), 130.2, 130.6, 135.4, 138.7, 139.0; $^{19}$F NMR (376 MHz, CDCl$_3$) $\delta$ –62.4; $^{77}$Se NMR
(75 MHz, CDCl$_3$) $\delta$ 418; HRMS–FAB (m/z): [M + H]$^+$ calcd for C$_{14}$H$_{12}$F$_3$Se: 317.0056;
found, 317.0077.
Spectra of 

Copies of 

$^1$H NMR, $^{13}$C NMR, $^{19}$F NMR, $^{77}$Se NMR spectra of compound 3cb.
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abundance

800.0 700.0 600.0 500.0 400.0 300.0 200.0 100.0 0.0 -100.0 -200.0

X : parts per Million : Selenium??