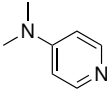
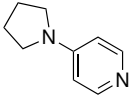


**4a**

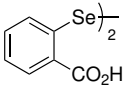
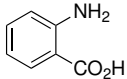


**DMAP**

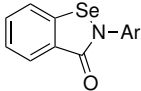


**4b**

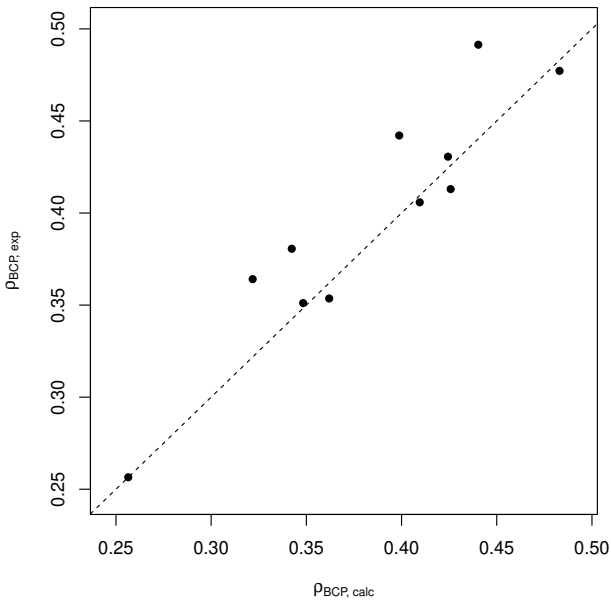


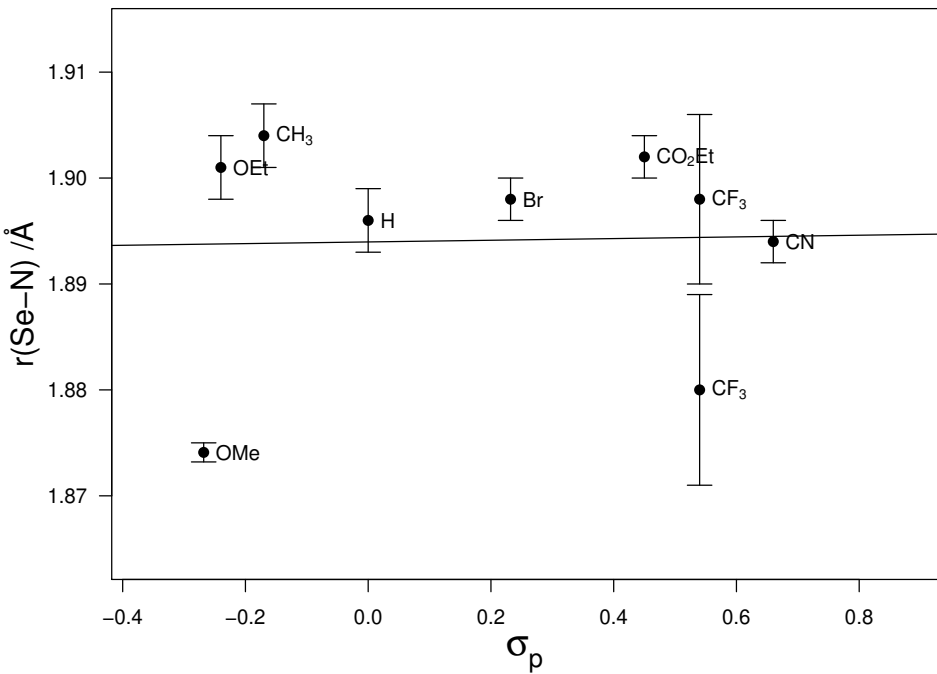


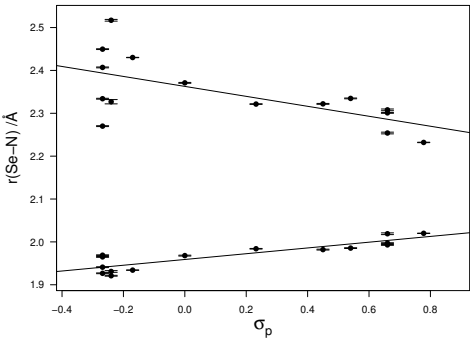
**5**

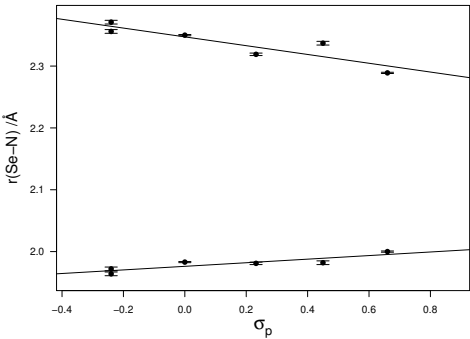


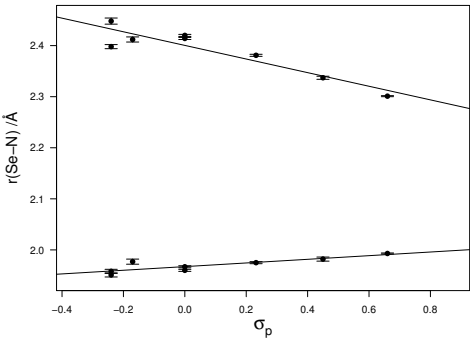
**1**

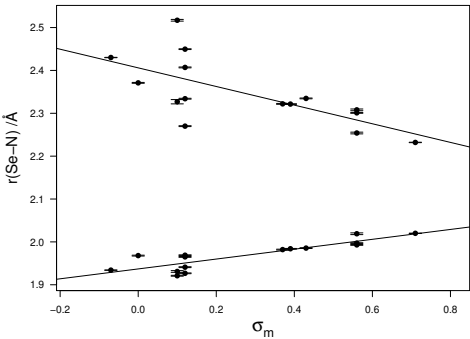


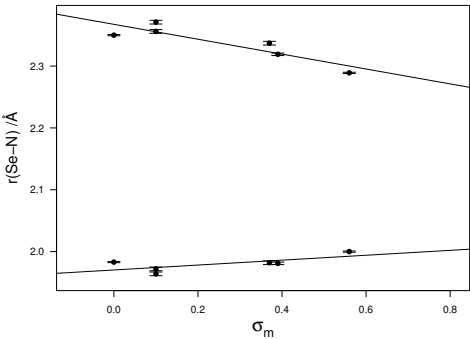




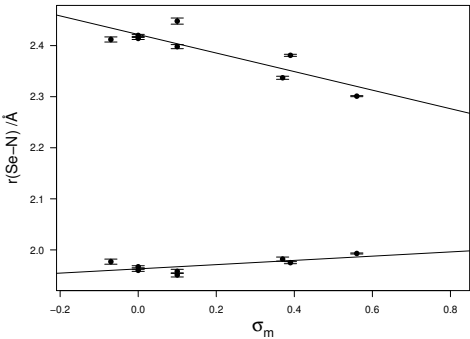


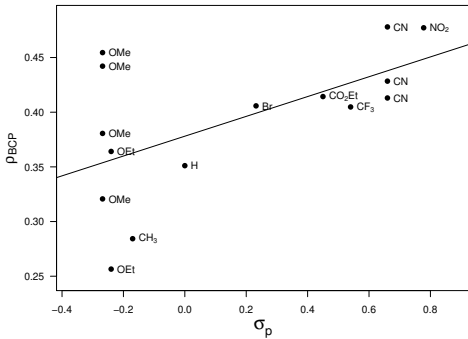


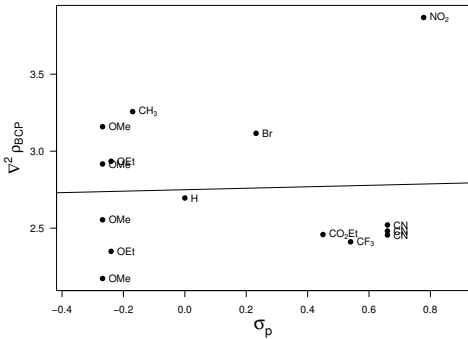


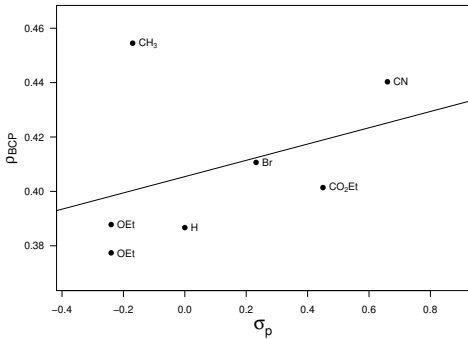


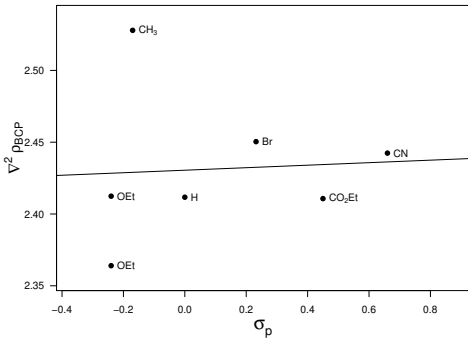


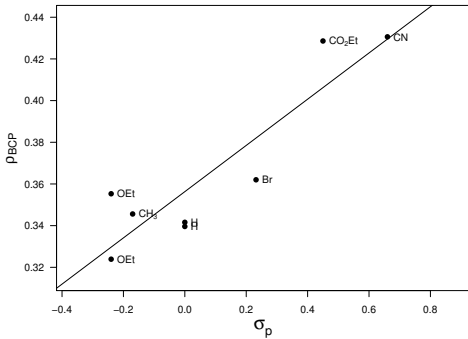


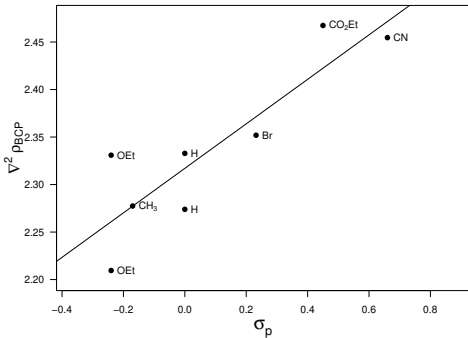


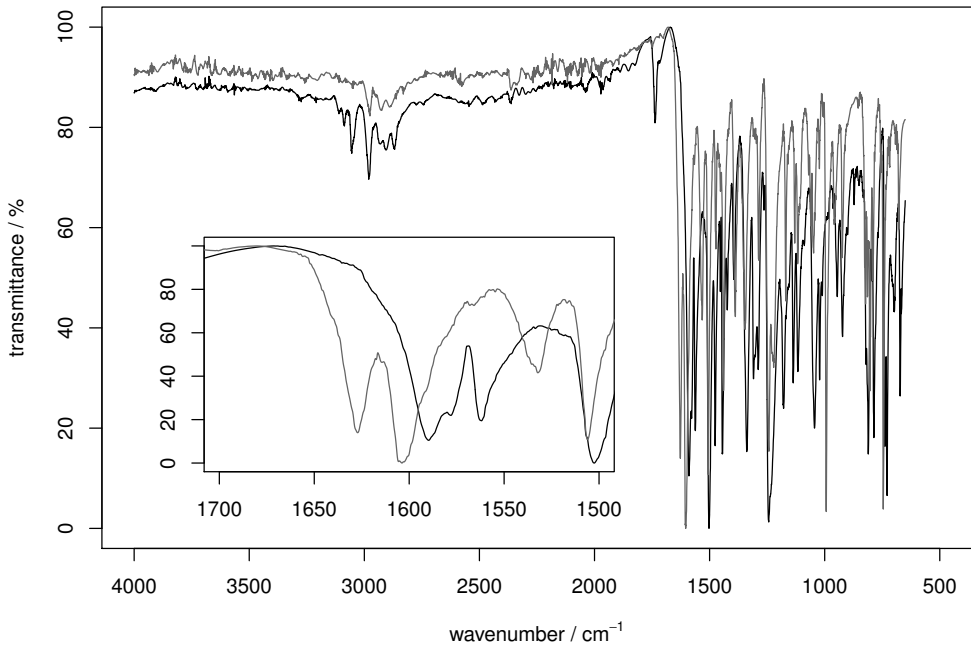




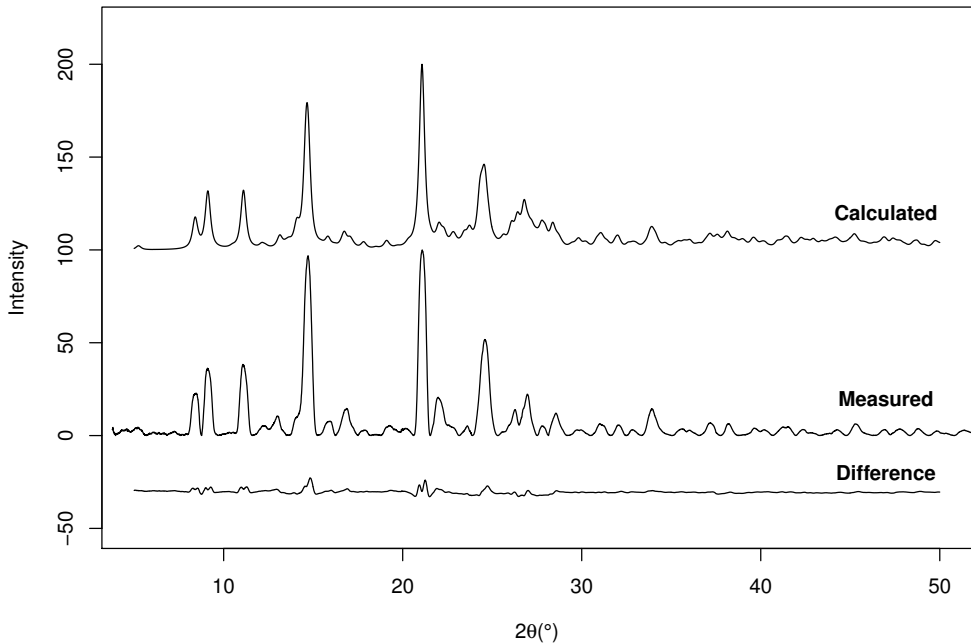


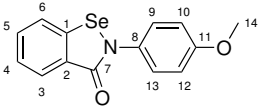
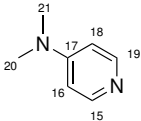


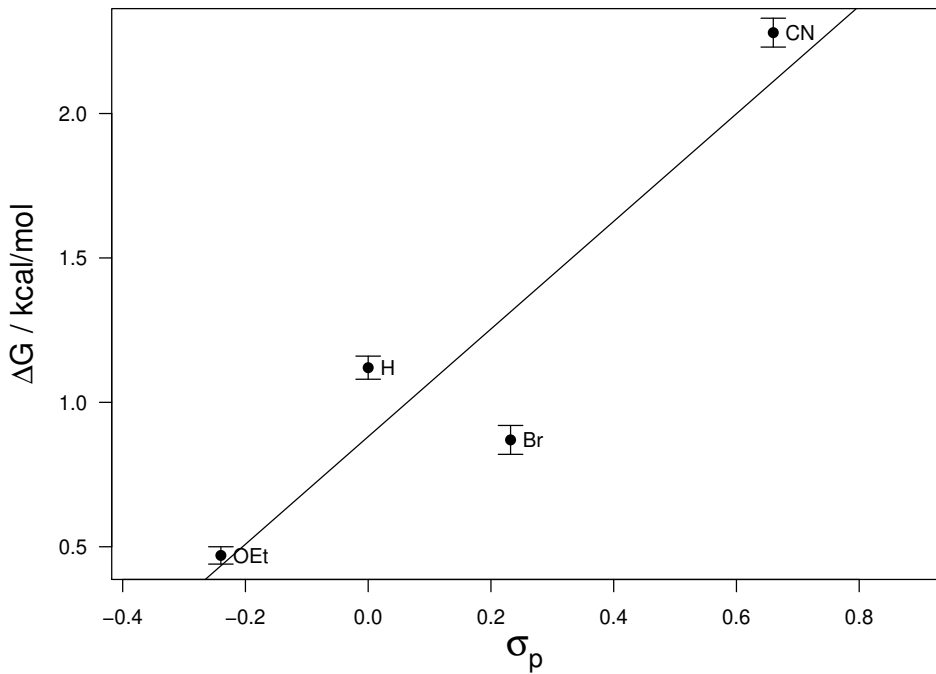


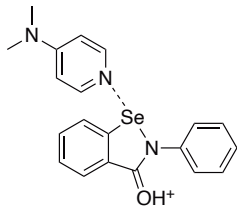






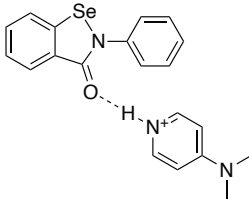




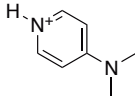


m/z: 398.08

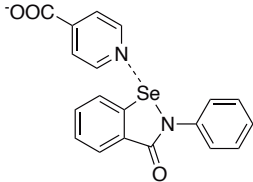
or



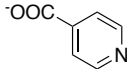
m/z: 398.08



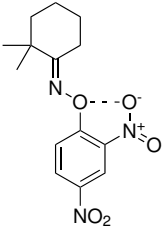
m/z: 123.09



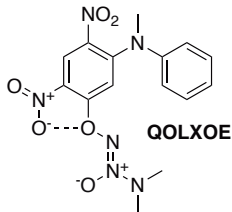
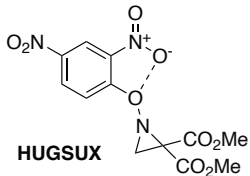
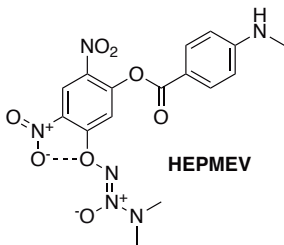
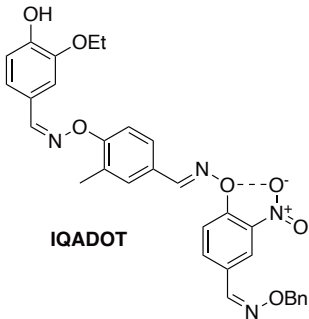
m/z: 397.01

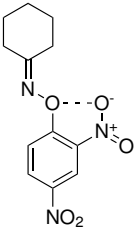


m/z: 122.02

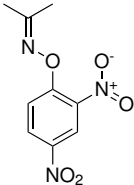


**7**



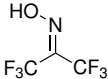
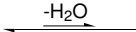
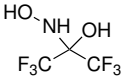


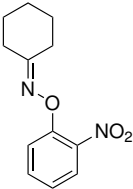
**8**



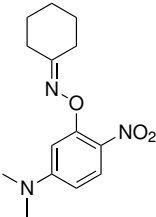
**9**



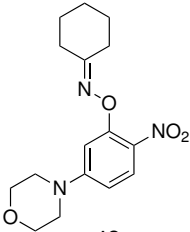




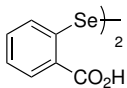
10



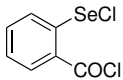
11



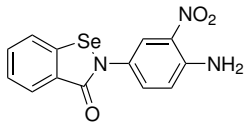
**12**



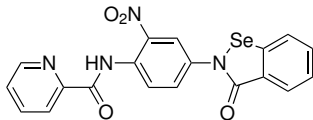
**5**



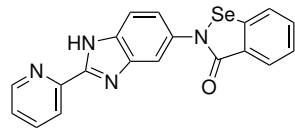
**6**



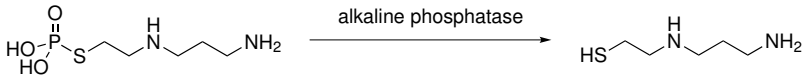
**17**

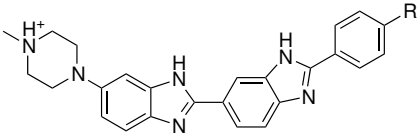


**16**



**14**

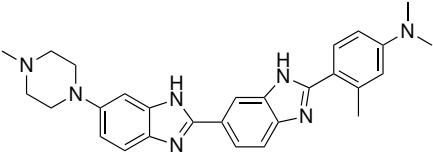




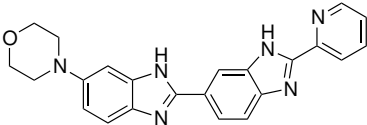
Hoechst 33258 R: OH

Hoechst 33342 R:  $\text{OCH}_2\text{CH}_3$

Hoechst 34580 R:  $\text{N}(\text{CH}_3)_2$

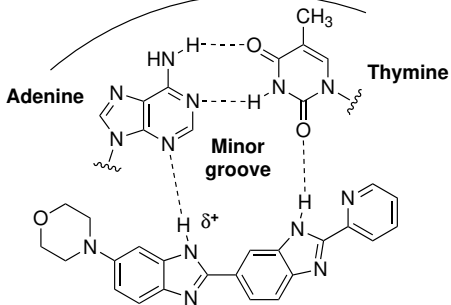




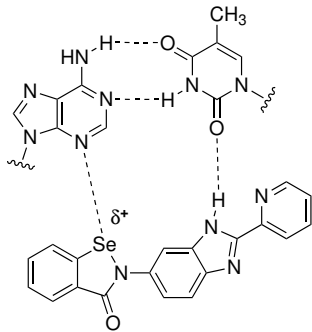


13

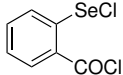
**Major groove**



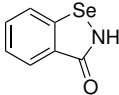
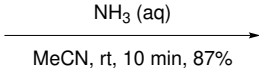
**13**



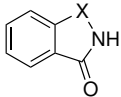
**14**



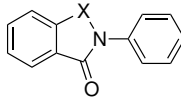
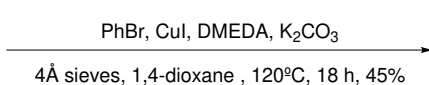
**6**



**1b**

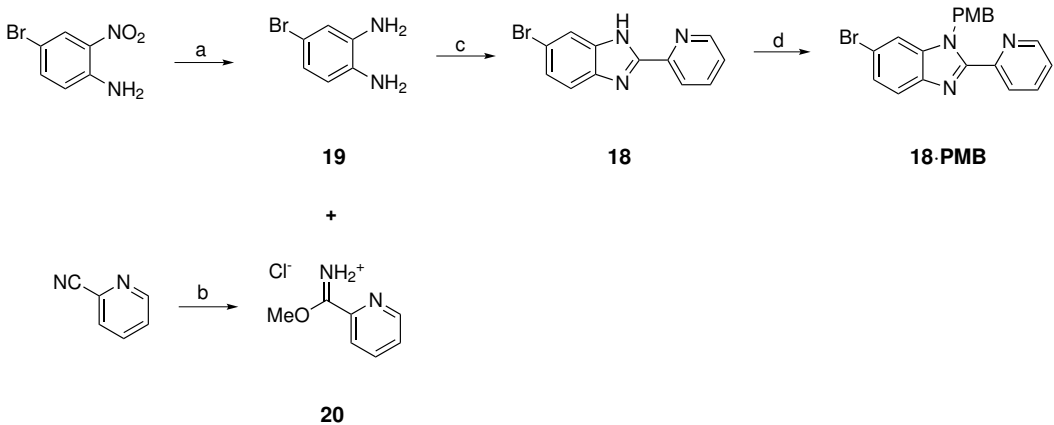


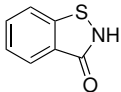
**1b** and **1b-S**



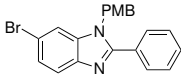
**1** and **1-S**

$X = S, Se$





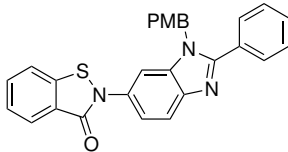
**1b-S**



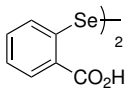
**21-PMB**

CuI, DMEDA, K<sub>2</sub>CO<sub>3</sub>

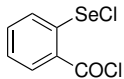
4 Å sieves, 1,4-dioxane, 120°C, 24 h, 48%



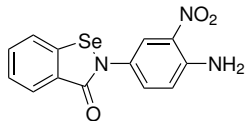
**22-S-PMB**



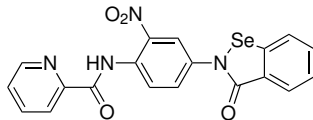
**5**



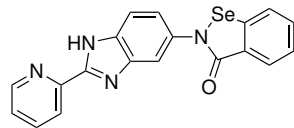
**6**



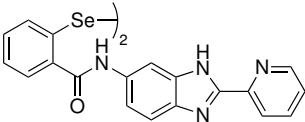
**17**



**16**



**14**



23



