

Supplementary Materials:

pH-Induced Orthogonal Photoresponse of *trans*-Chalcone Isomers and Related Compounds in Equilibria

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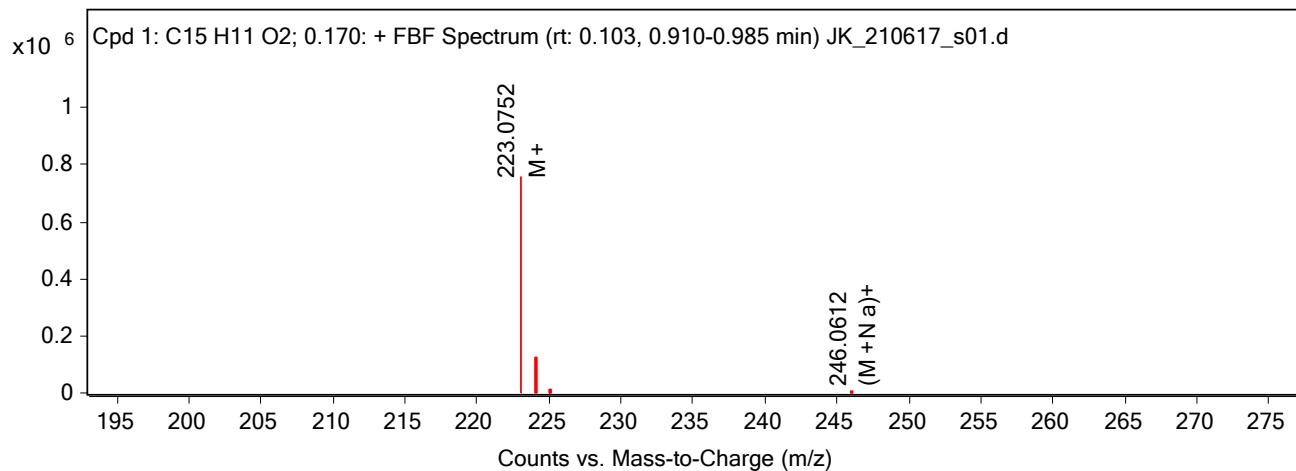


Figure S1. Mass spectrum of F1.

Single Mass Analysis

Tolerance = 10.0 PPM / DBE: min = -1.5, max = 200.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 5

Monoisotopic Mass, Even Electron Ions

28 formula(e) evaluated with 1 results within limits (all results (up to 1000) for each mass)

Elements Used:

C: 1-50

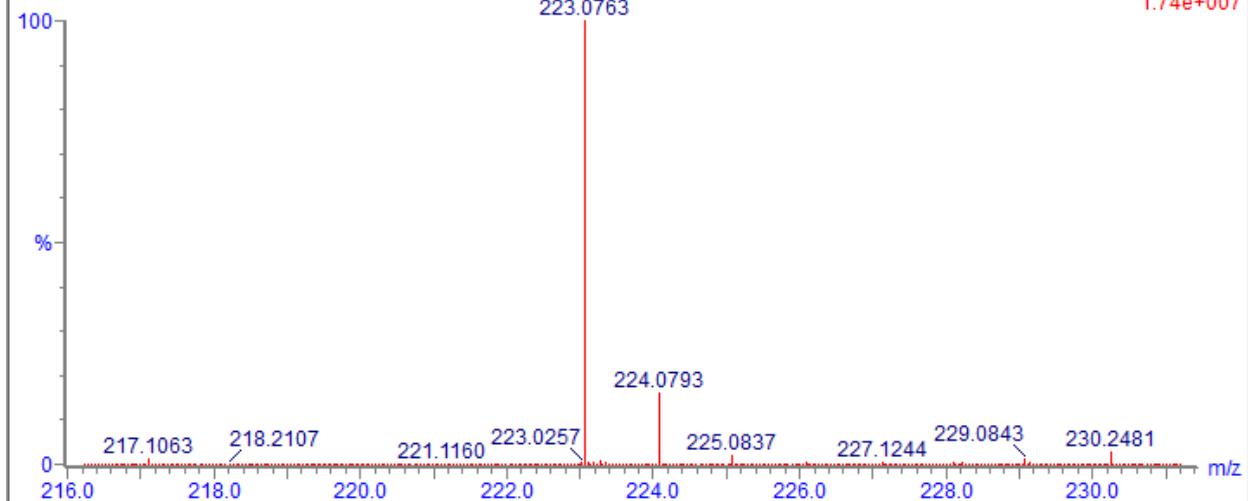
H: 1-50

O: 0-10

Mass	Calc. Mass	mDa	PPM	DBE	Formula	i-FIT	i-FIT Norm	Fit Conf %	C	H	O	
223.0763	223.0759	0.4	1.8	10.5	C15 H11 O2	1628.0	n/a	n/a	15	11	2	

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XS2_082922_002 24 (0.257) Cm (24:30)

1: TOF MS ES+
1.74e+007**Figure S2.** Mass spectrum of F2.

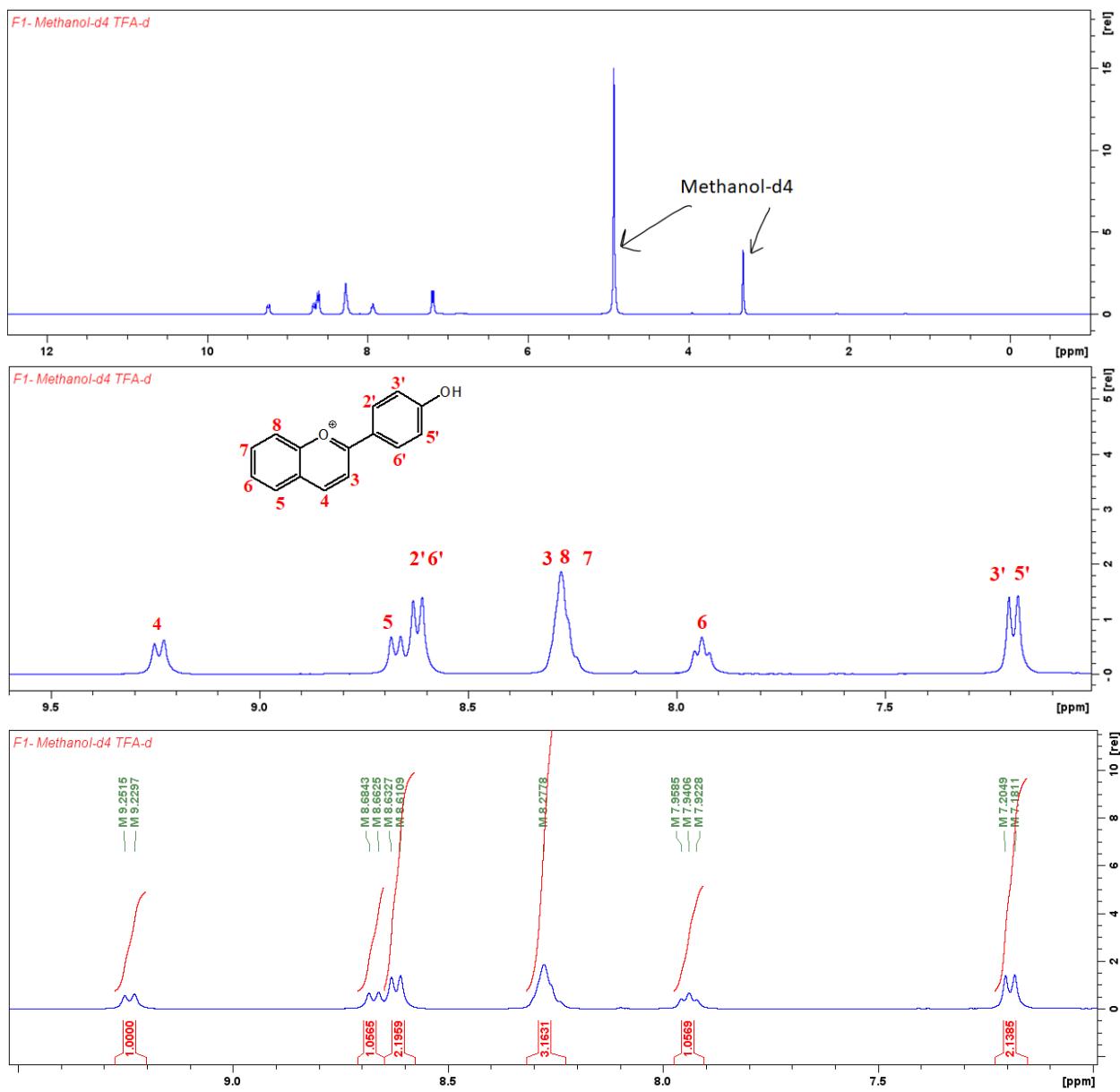


Figure S3. ^1H -NMR spectrum of **F1** in $\text{MeOD-d}_4/\text{TFA-d} = 95/5$.

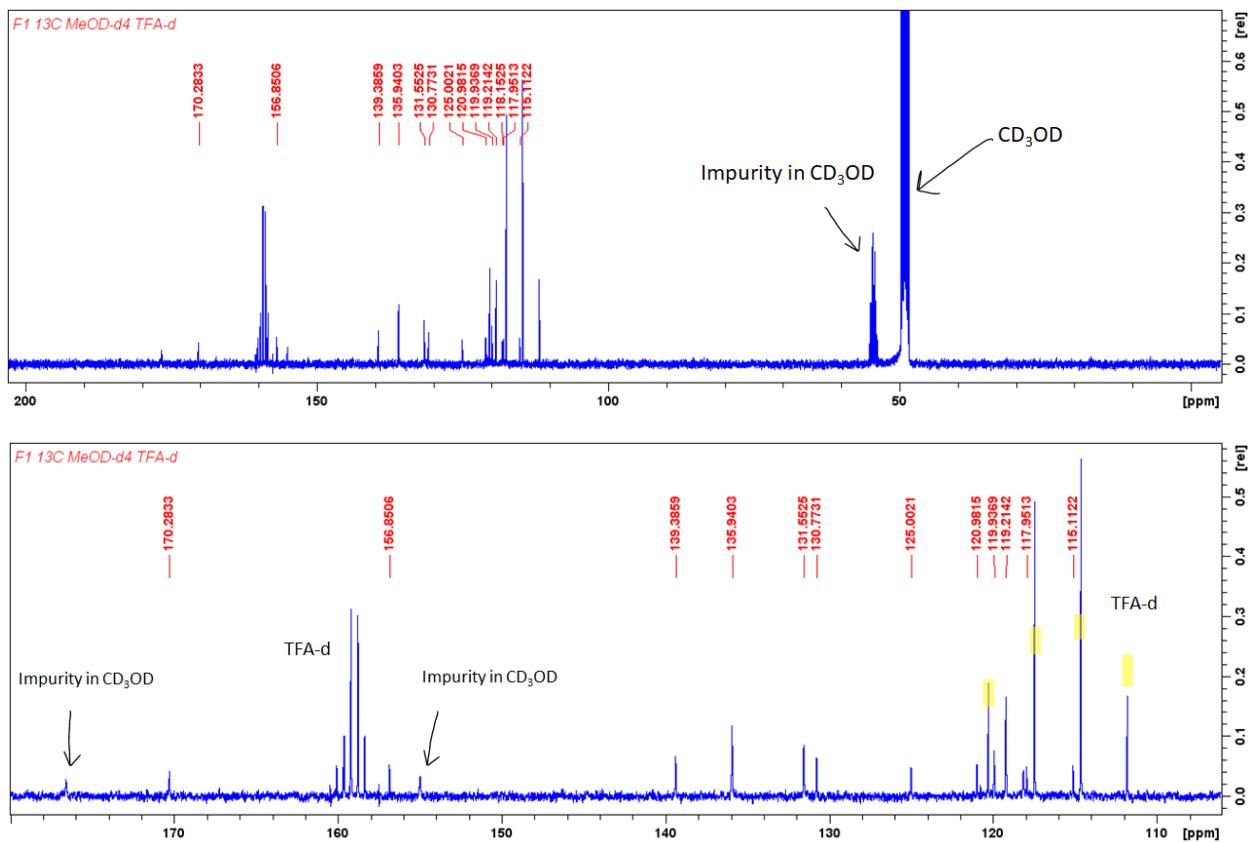


Figure S4. ¹³C-NMR spectrum of F1 in MeOD-d4/TFA-d = 95/5.

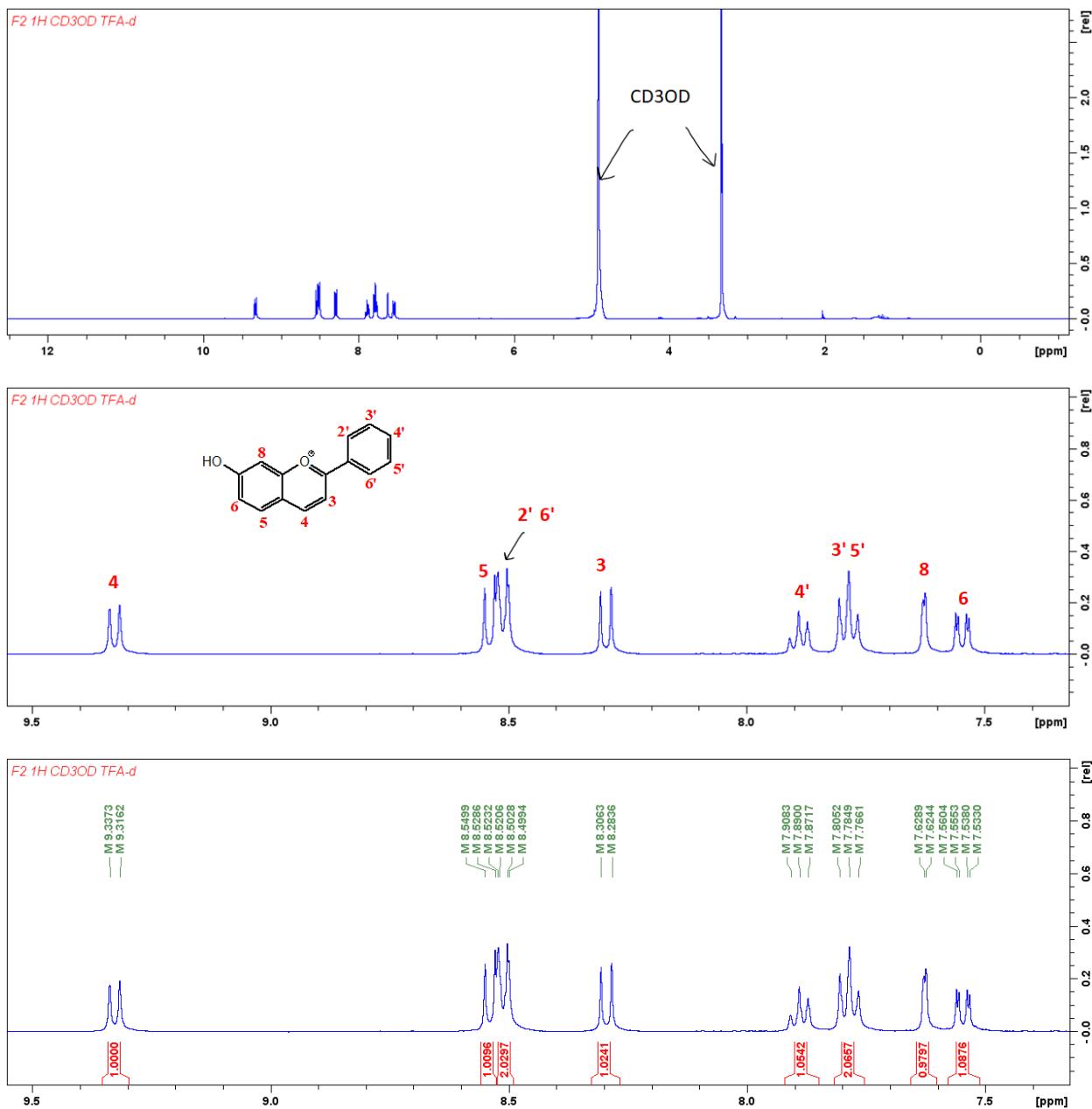


Figure S5. ^1H -NMR spectrum of F2 in MeOD-d4/TFA-d = 95/5.

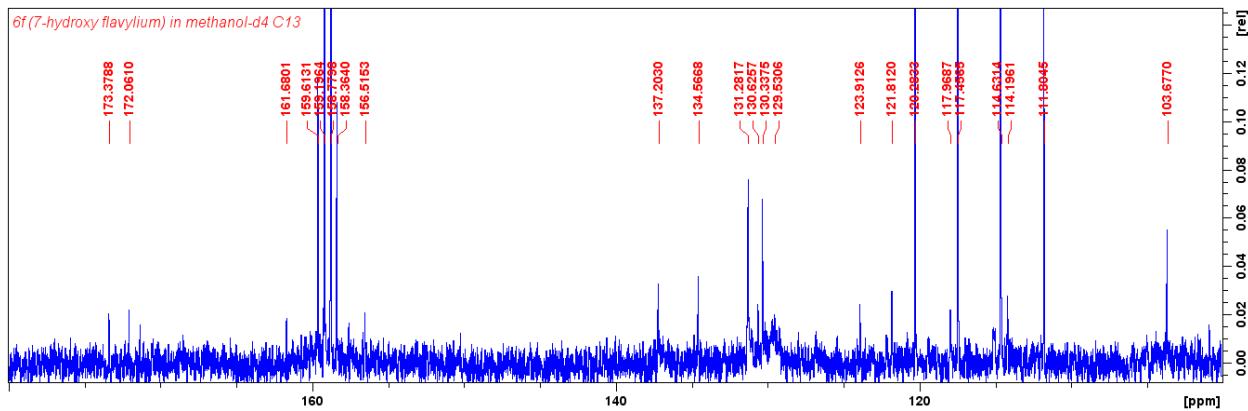


Figure S6. ^{13}C -NMR spectrum of **F2** in MeOD-d4/TFA-d = 95/5.