Supplementary Information

Evaluation of anticonvulsant, sedative, anxiolytic and phytochemical profile of the methanol extract from the aerial parts of *Swertia corymbosa* (Griseb.) Wight *ex* C.B. Clarke

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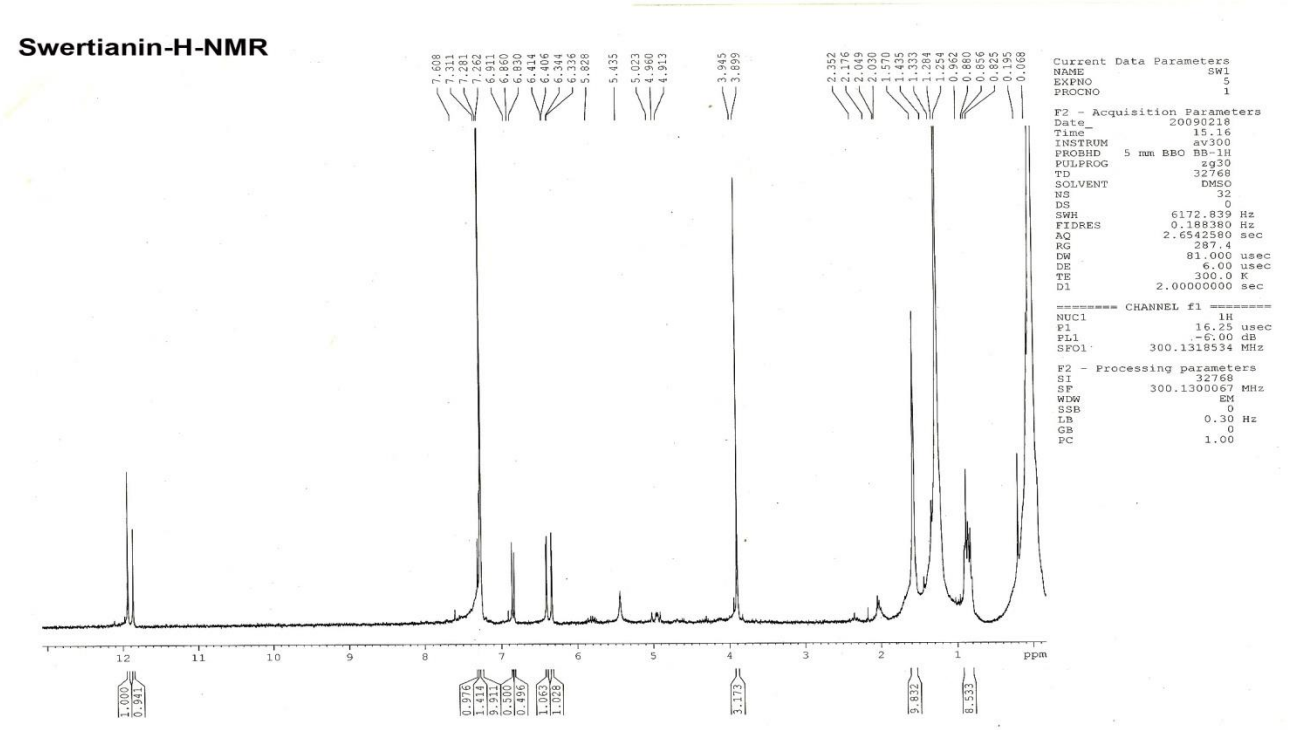
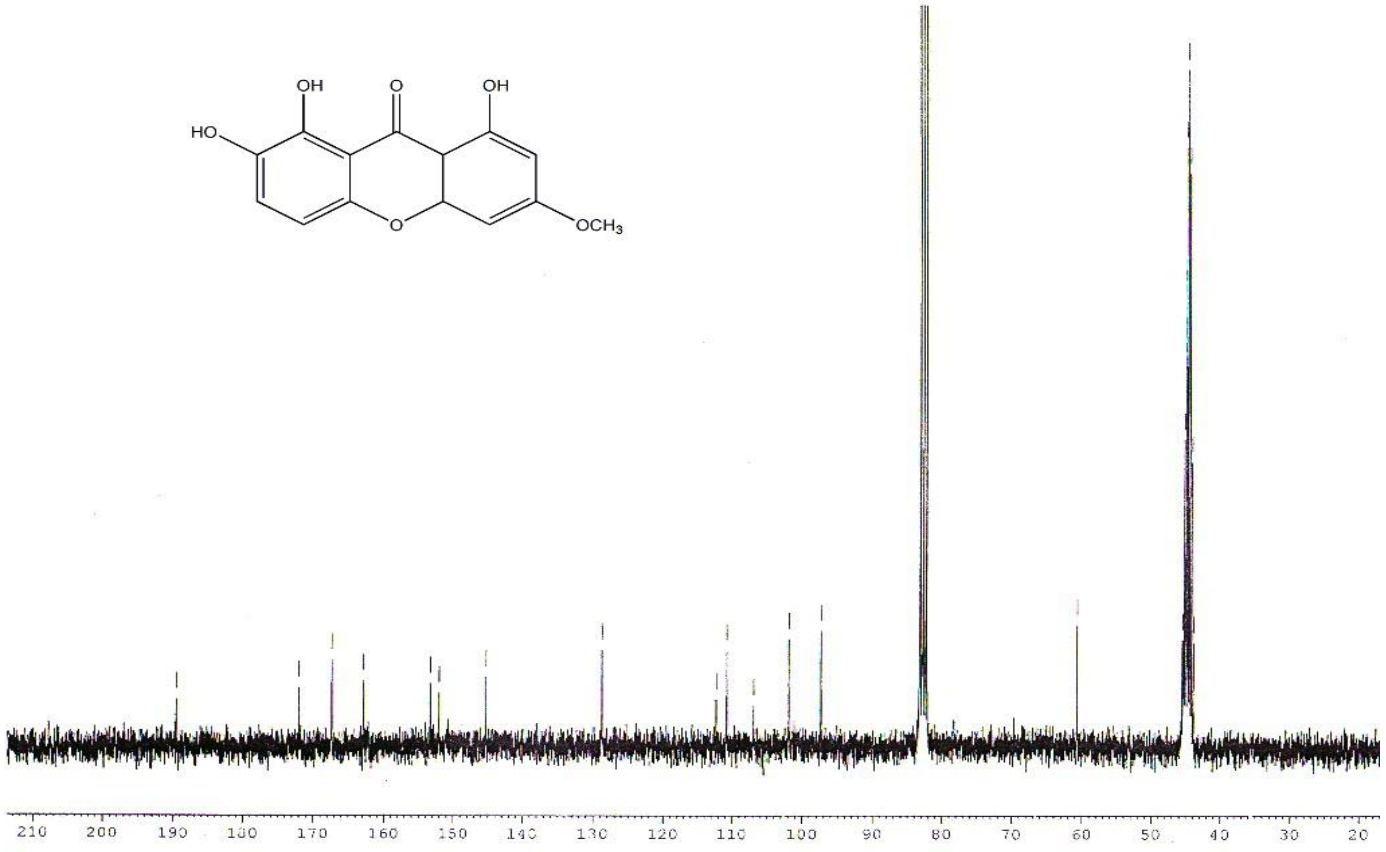
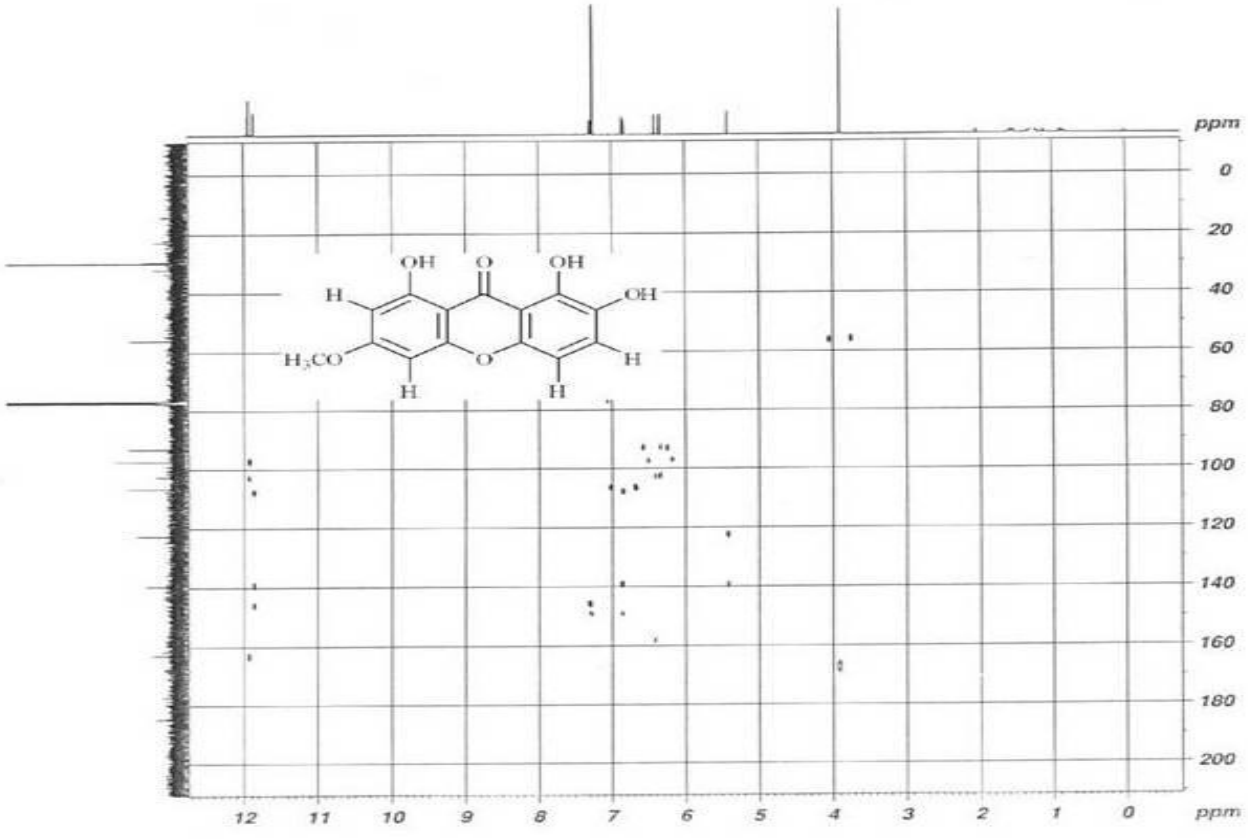
Supplementary figures



^{13}C-NMR spectra of swertianin



HMBC spectra of swertianin



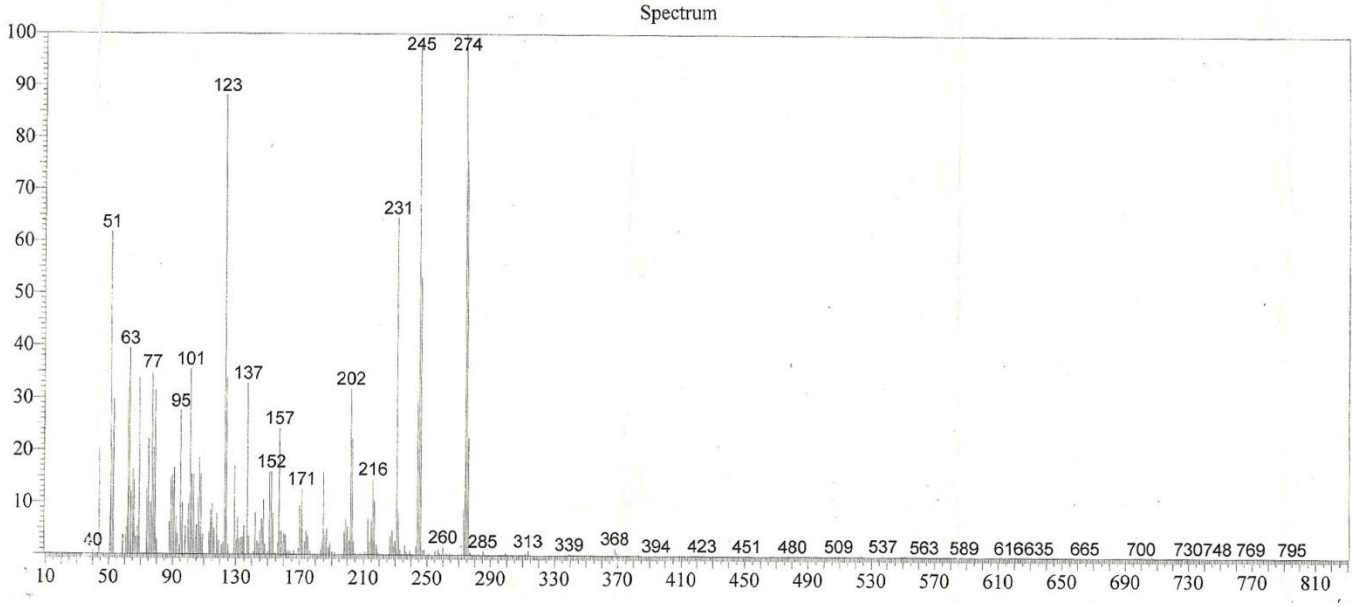
MS spectra of swertianin

National Centre for Mass Spectrometry
Indian Institute of Chemical Technology

Sample Information

Sample ID	: SW1 Name: G MAHENDRAN,RESEARCH SCHOLAR,Dept OF BOTANY,BHARATHIYAR UNIVERS
Data File	: E:\ISO\18774-1.QGD
Analyzed by	: Admin
Analyzed	: 3/16/2009 6:19:43 PM
Tuning File	: C:\GCMSsolution\System\Tune1\Auto Tuning-EI(WithOUT Column)- 3-3-09.qgt

Spectrum



Compound 2	: Swertianin
Melting point	: 224–227 °C
IR (KBr) ν_{max} cm^{-1}	: 3388-3442 (OH groups), 1662 (C=O), 1282 (O-CH_3)
^{1}H NMR (300 MHz, $CDCl_3$) δ (ppm)	: 3.90 (s, 3H, C_6-OCH_3) 5.44 (b s, 3H, C_2-OH), 6.34 (d, 1H, *J* =2.40 Hz, H-5) 6.41 (d, 1H, *J* = 2.40 Hz, H-7) 6.85 (d, 1H, *J* =9.00 Hz, H-3), 7.30 (d, 1H, *J* =9.00 Hz, H-4), 11.87 (s, 1H C_8-OH) 11.94 (s, 1H C_1-OH).
^{13}C NMR (75 MHz, $CDCl_3$) δ (ppm)	: 60.69 (C_6-OCH_3), 97.33 (C_4), 101.84 (C_2), 106.89 (C_{9a}), 110.77 (C_5), 112.30 (C_{8a}), 128.75 (C_6), 145.23 (C_{10a}), 152.01 (C_{4a}), 153.28 (C_7), 162.79 (C_8), 167.27 (C_1), 171.92 (C_3), 189.51 (C=O).
HMBC	: H-3(C_1, C_{4a}), H-4(C_2, C_{4a}),H-5(C_6),H-7(C_5,C_8,C_{8a}), 1-OH(C_{9a}), 2-OH(C_3),6-OCH_3(C_6).
EIMS: *m/z*(%)	: 274 (M^+, 100 %) 260 (5 %), 246 (50 %), 245 (96 %), 231 (64 %), 216 (13 %), 202 (30 %) 185 (16 %), 171 (14 %), 157 (23 %), 152 (18 %), 137 (34 %), 123 (88 %), 101 (36 %), 98 (30 %), 77 (35 %), 63 (40 %), 51 (62 %). $C_{14}H_{10}O_6$ (274). Anal. Cal Found C: 61.46 %, H: 3.52 %.

1, 2, 8-Trihydroxy-6-methoxy xanthone (swertianin)

Bright yellow crystal, mp 224–227 °C, IR (cm-1): 3388-3442 (OH groups), 1662 (C=O), 1282 (O-CH3), EIMS m/z 274 [M]+ (calculated for C14H10O6). 1H NMR (CDCl3, 300MHz) 3.90 (s, 3H, C6-OCH3) 5.44 (b s, 3H, C2-OH), 6.34 (d, 1H, J =2.40 Hz, H-5) 6.41 (d, 1H, J = 2.40 Hz, H-7) 6.85 (d, 1H, J =9.00 Hz, H-3), 7.30 (d, 1H, J =9.00 Hz, H-4), 11.87 (s, 1H C8-OH) 11.94 (s, 1H C1-OH). 13C-NMR (CDCl3, 75MHz) 60.69 (C6-OCH3), 97.33 (C4), 101.84 (C2), 106.89 (C9a), 110.77 (C5), 112.30 (C8a), 128.75 (C6), 145.23 (C10a), 152.01 (C4a), 153.28 (C7), 162.79 (C8), 167.27 (C1), 171.92 (C3), 189.51 (C=O). HMBC: H-3(C1, C4a), H-4(C2, C4a),H-5(C6),H-7(C5,C8,C8a), 1-OH(C9a), 2-OH(C3),6-OCH3(C6).