

Article

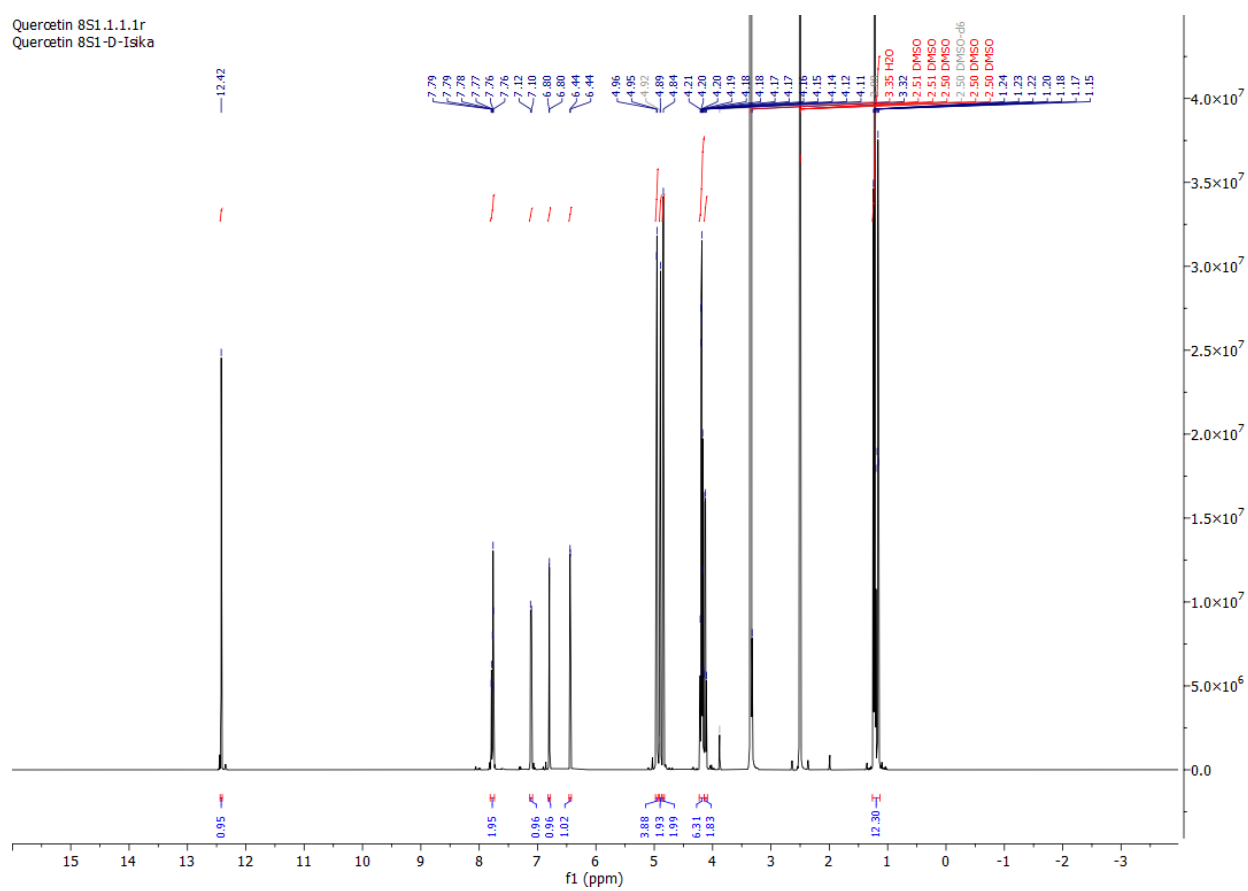
Selective Structural Derivatization of Flavonoid Acetamides Significantly Impacts their Bioavailability and Antioxidant Properties

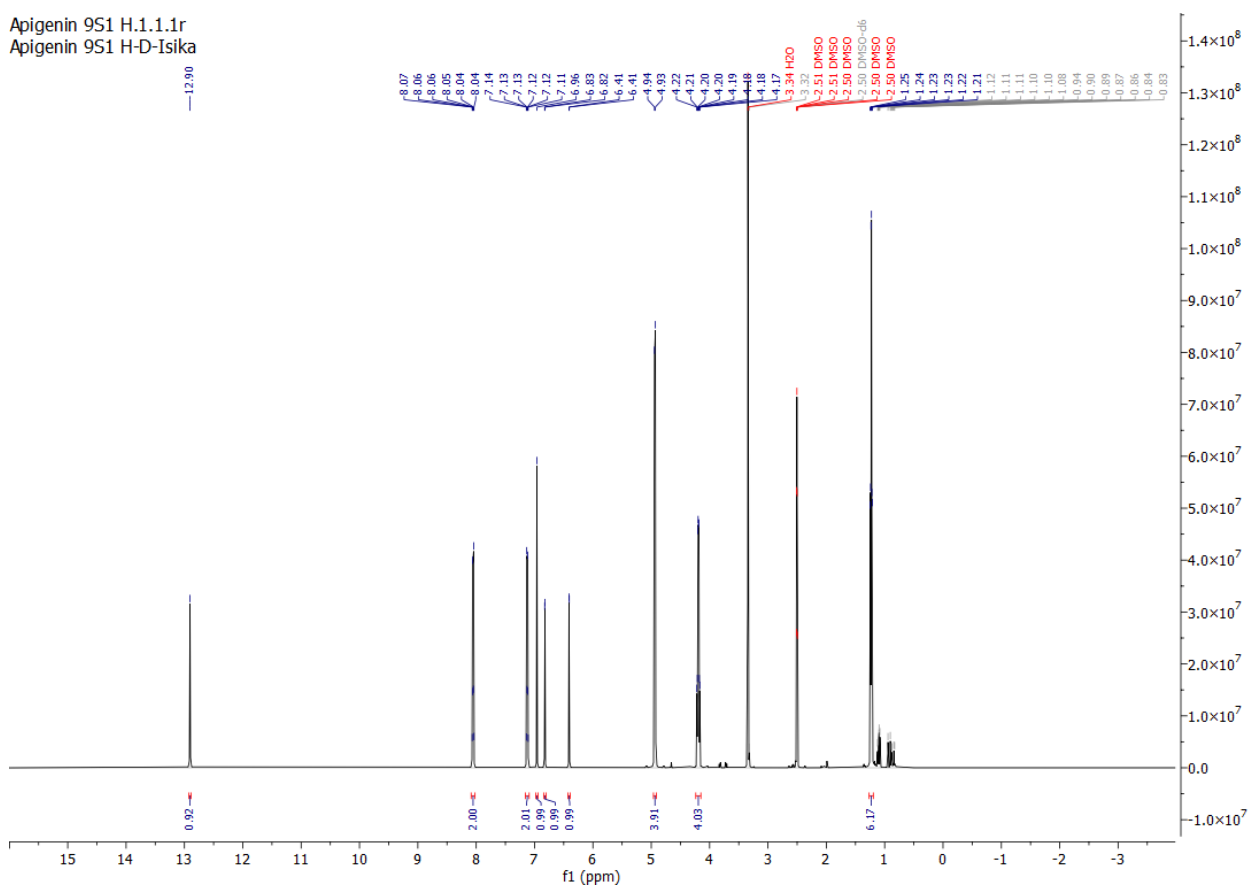
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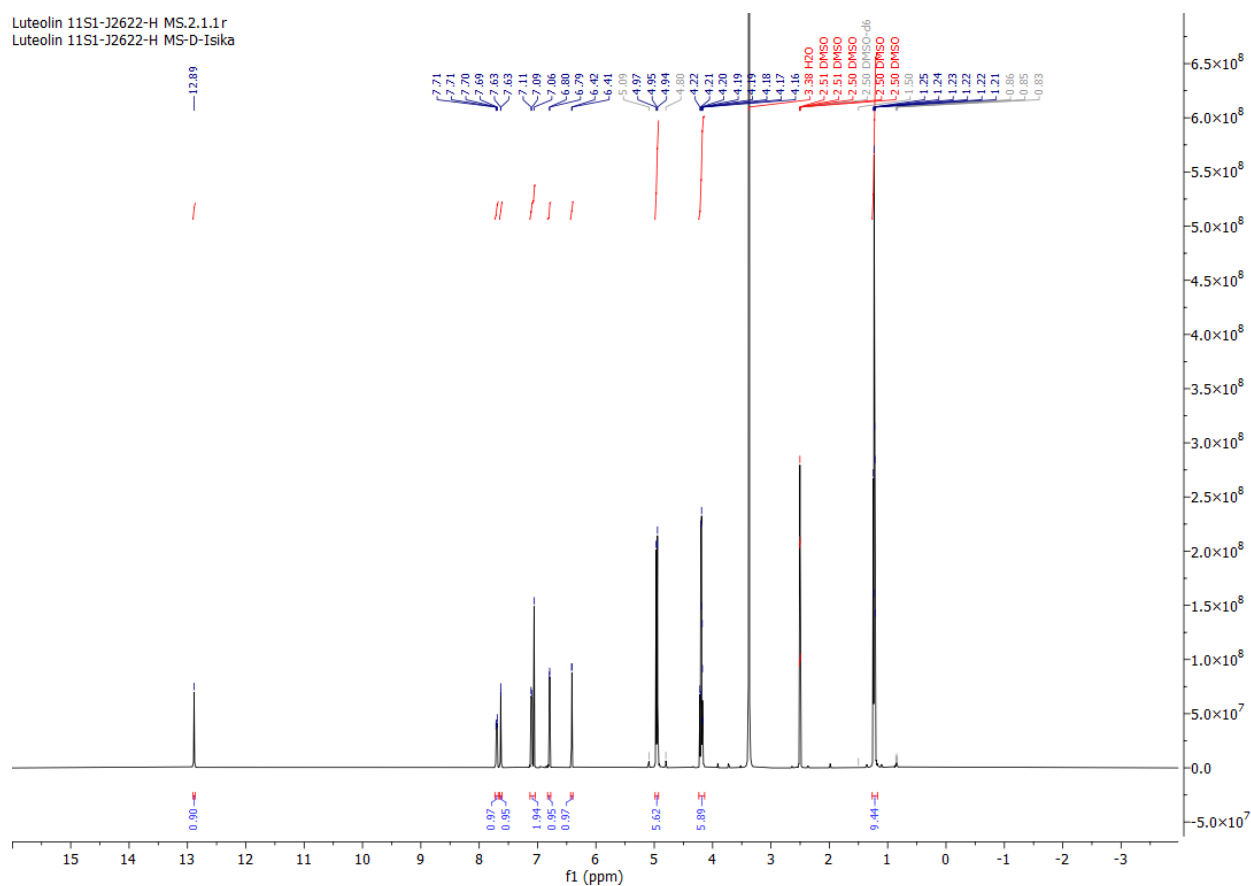
¹ Department of Chemistry and Environmental Science, BioSensor Materials for Advanced Research & Technology (BioSMART Center), New Jersey Institute of Technology, 161 Warren Street, University Heights, Newark, NJ, 07102, USA.

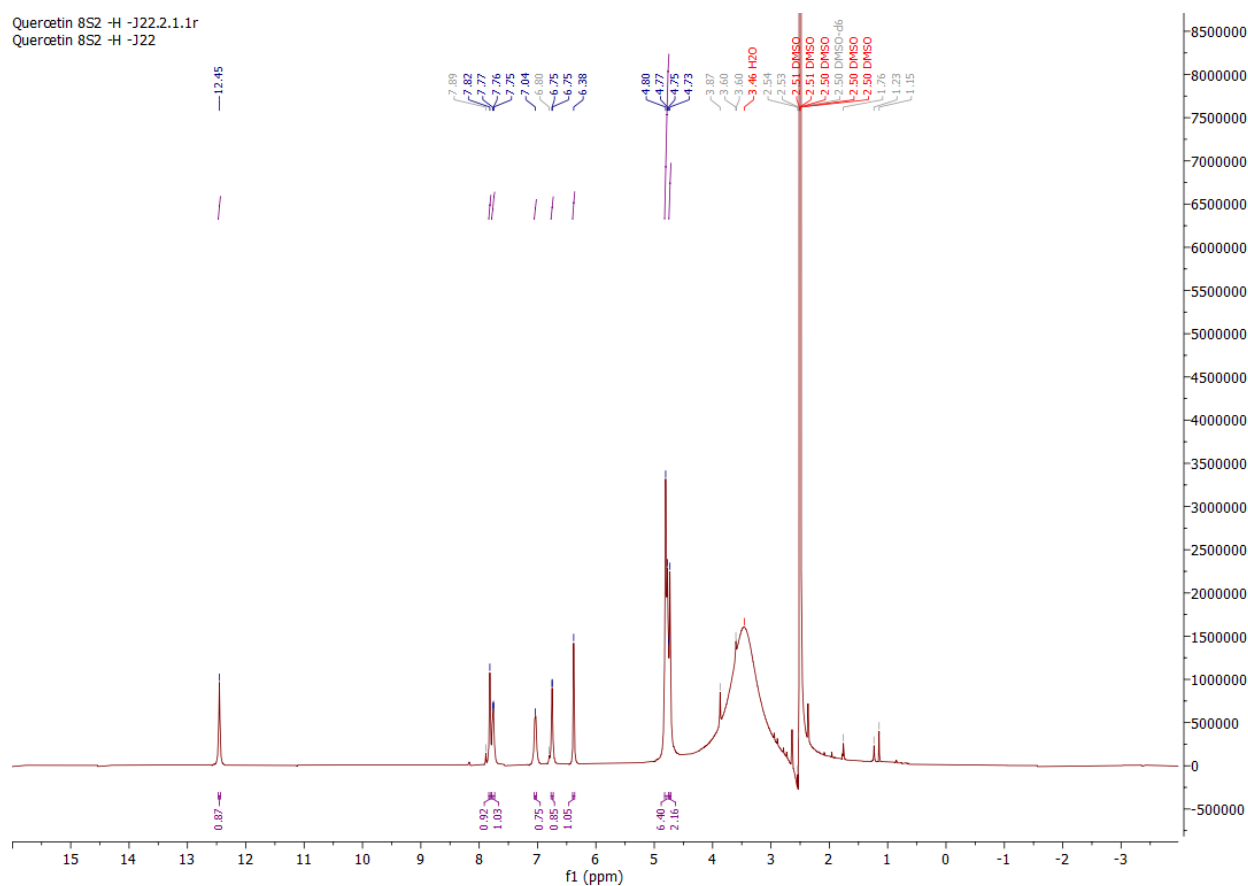
* Correspondence: Omowunmi A. Sadik (sadik@njit.edu)

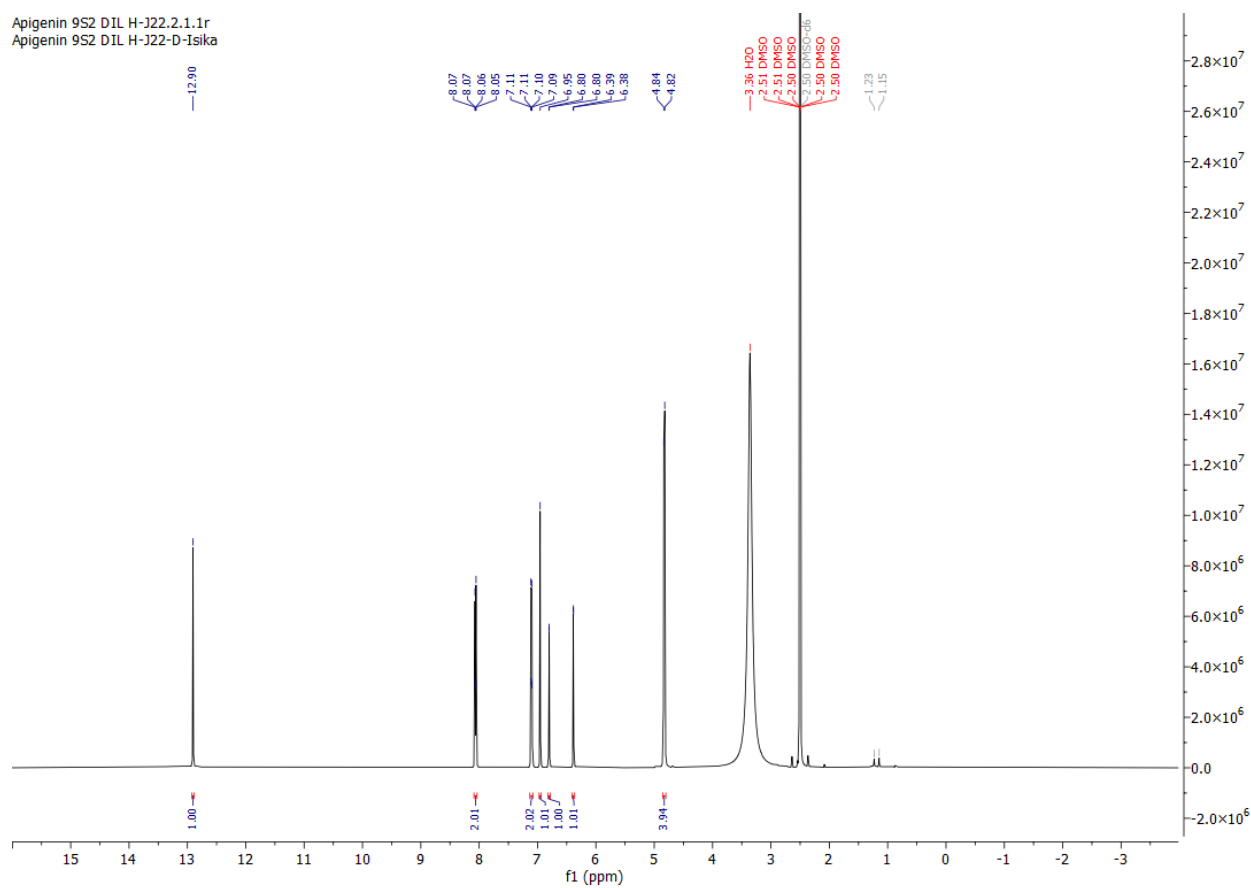
Supporting Information- SI

Figure S1: ^1H NMR spectrum (500 MHz, DMSO-d_6): compound 2

Figure S2: ^1H NMR spectrum (500 MHz, DMSO-d_6): compound 9

Figure S3: ¹H NMR spectrum (500 MHz, DMSO-d₆): compound 13

Figure S4: ^1H NMR spectrum (500 MHz, DMSO- d_6): compound 3

Figure S5: ^1H NMR spectrum (500 MHz, DMSO-d_6): compound 10

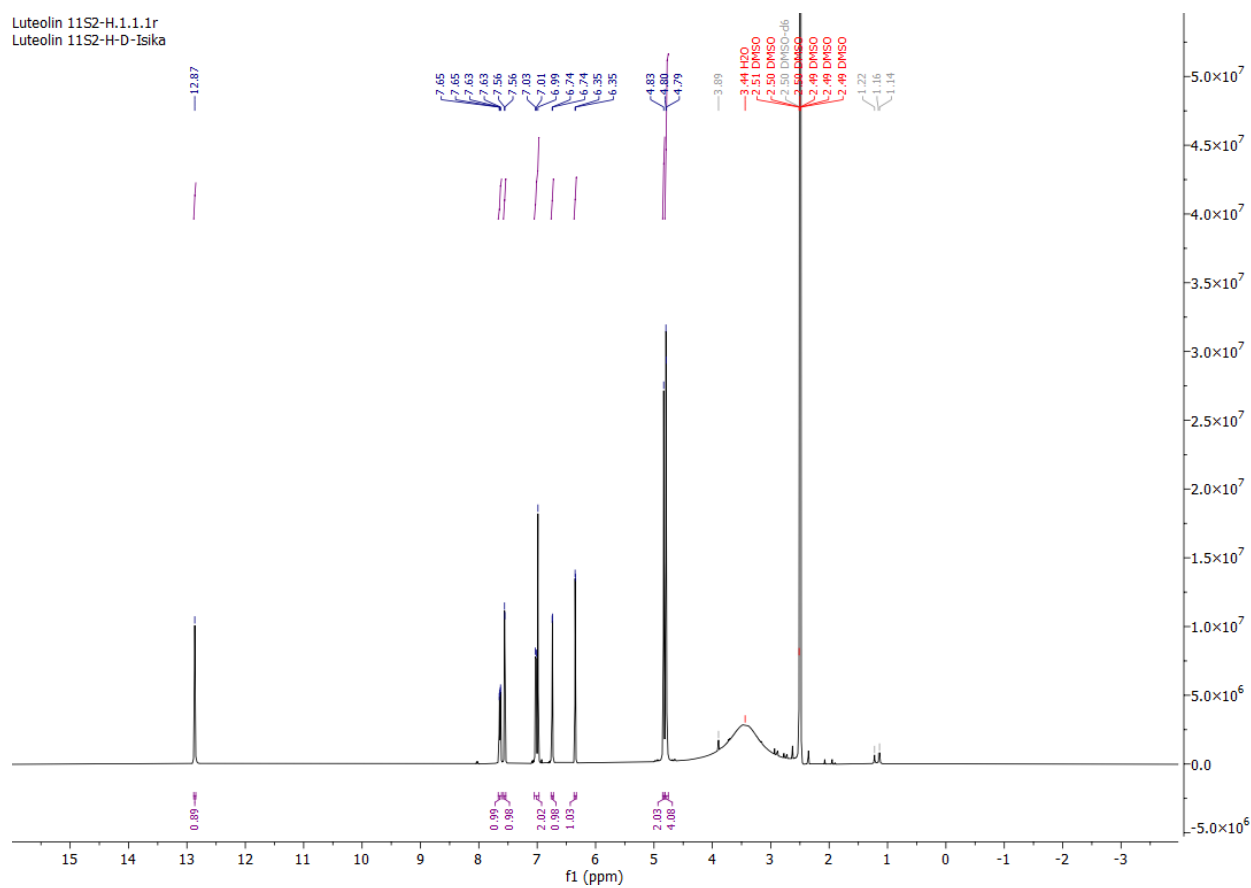
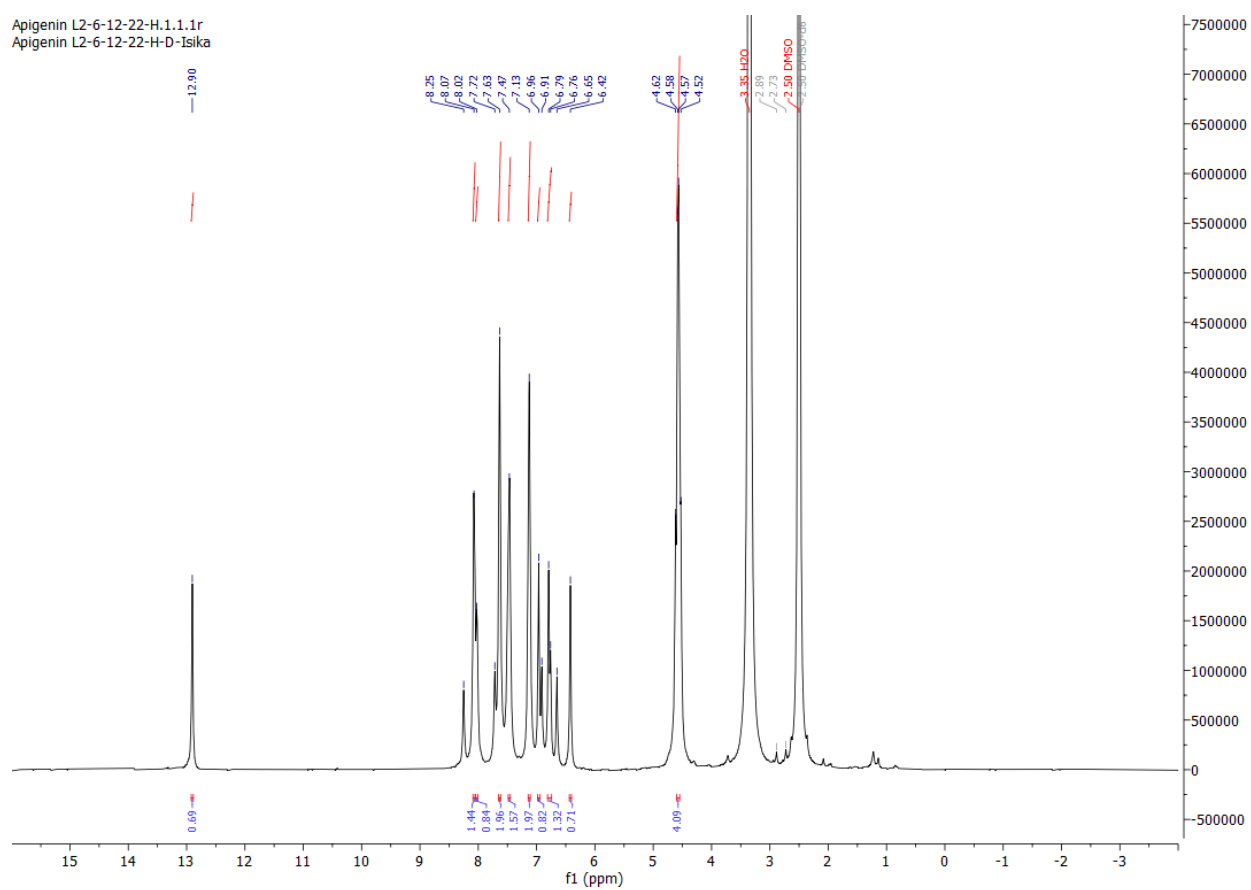
Figure S6: ^1H NMR spectrum (500 MHz, DMSO-d_6): compound 14



Figure S7: ^1H NMR spectrum (500 MHz, DMSO-d_6): compound 4

Figure S8: ^1H NMR spectrum (500 MHz, DMSO-d_6): compound 11

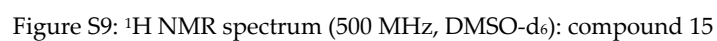
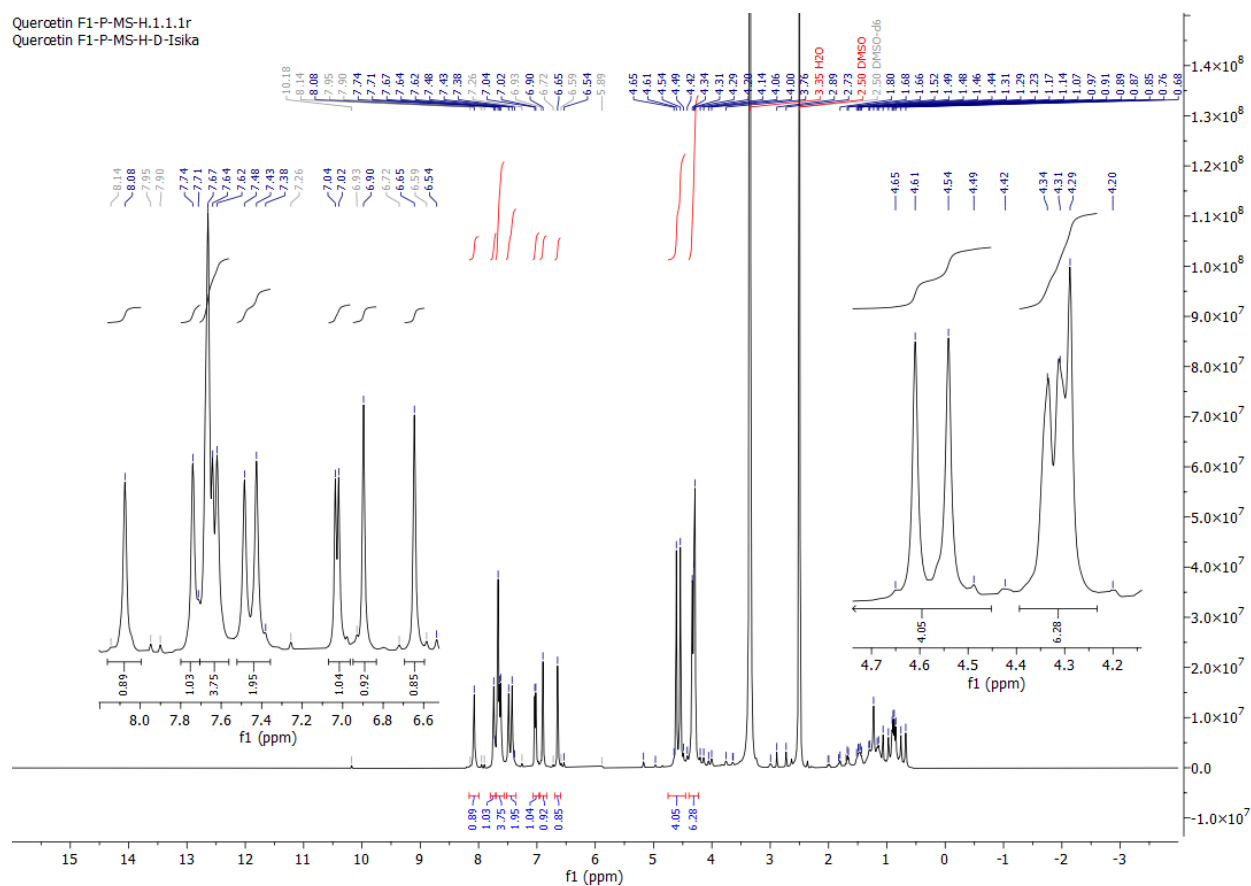


Figure S9: ^1H NMR spectrum (500 MHz, DMSO-d_6): compound 15





Figure S11: ^1H NMR spectrum (500 MHz, DMSO- d_6): compound 6

Figure S12: ^1H NMR spectrum (500 MHz, DMSO-d_6): compound 7

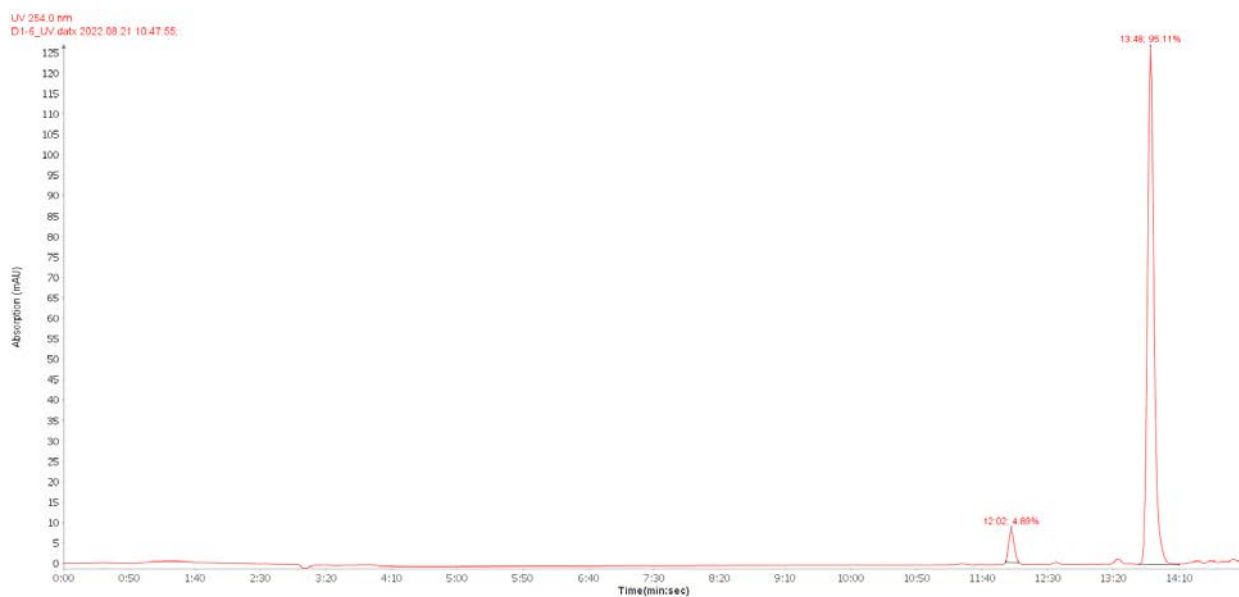


Figure S13: HPLC chromatogram of compound 5

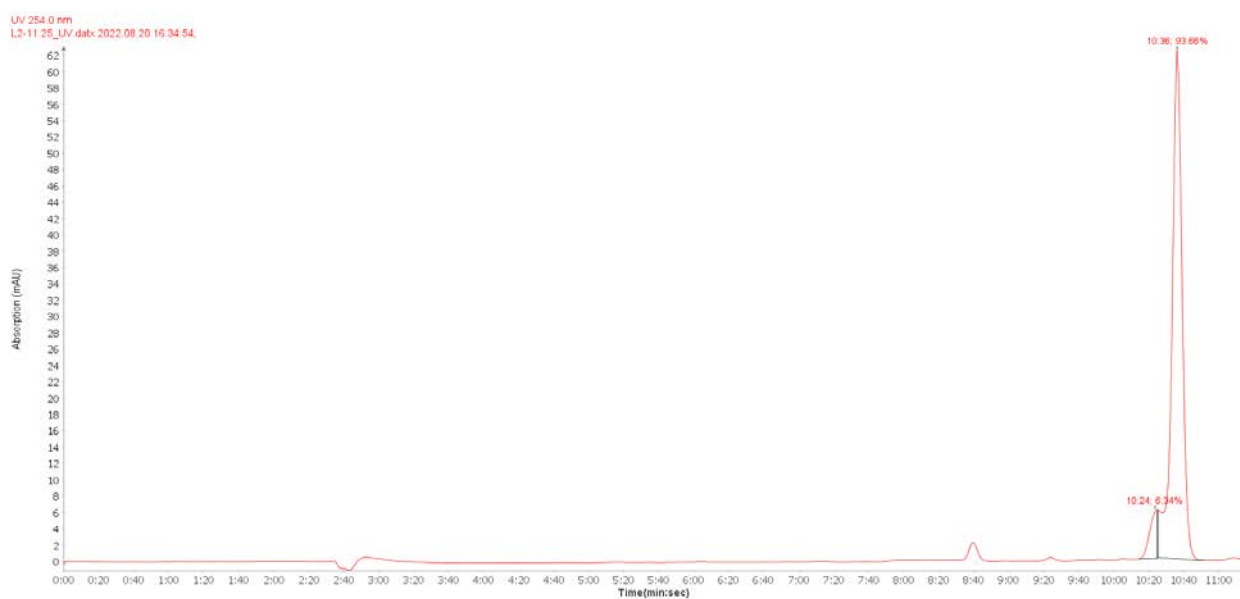


Figure S14: HPLC chromatogram of compound 11

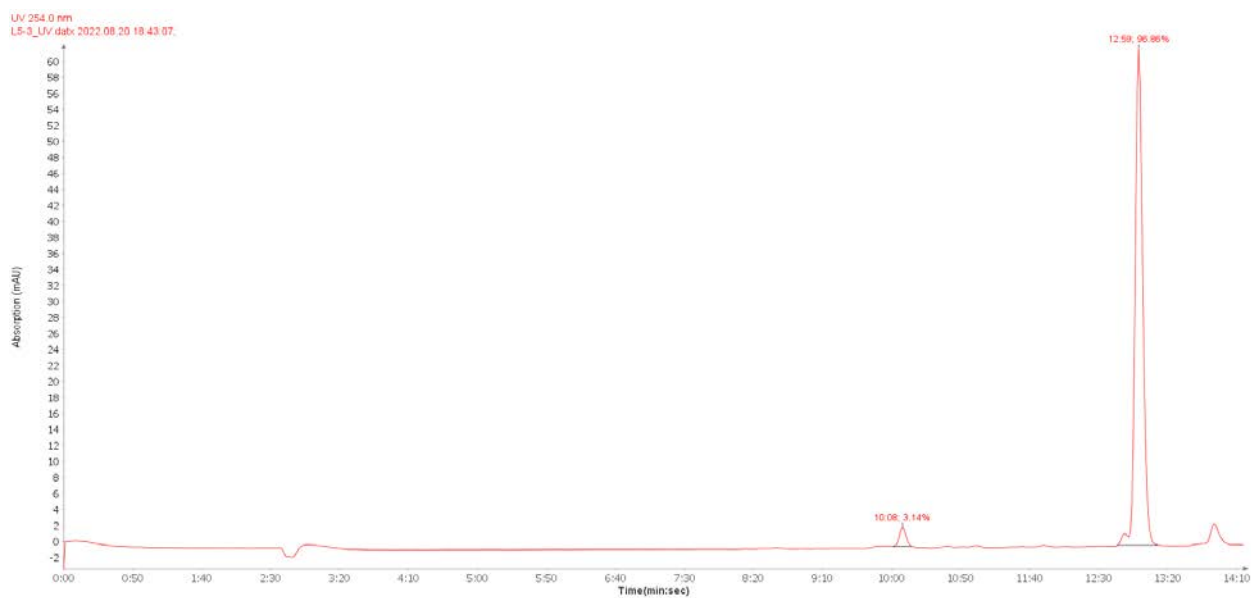


Figure S15: HPLC chromatogram of compound 15

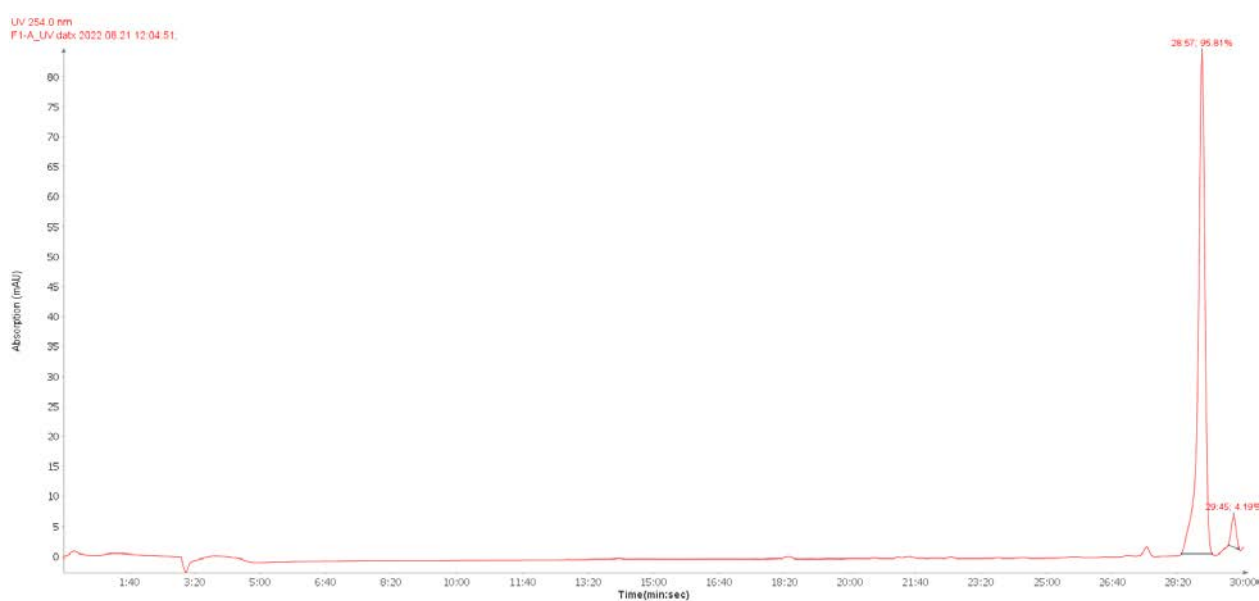


Figure S16: HPLC chromatogram of compound 7

L1-1_220719194452 #1651 RT: 2.65 AV: 1 NL: 3.53E5
T: ITMS + c ESI Full ms [200.00-550.00]

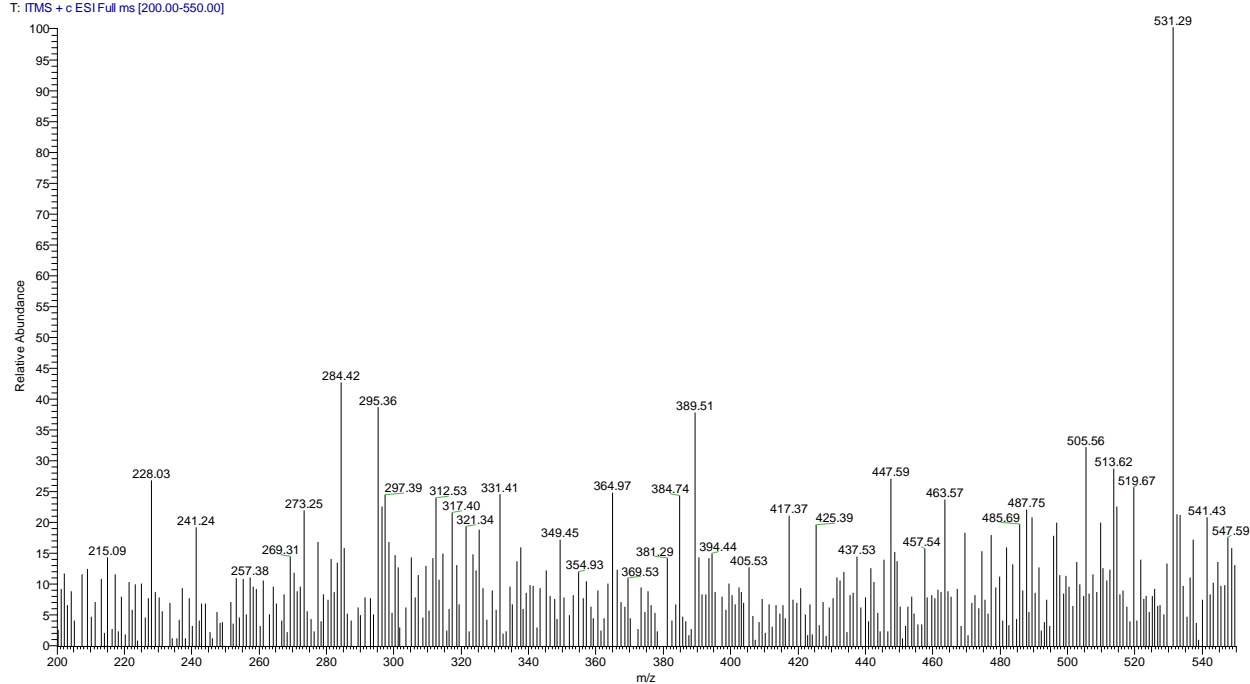


Figure S17: Mass spectrum of compound 4

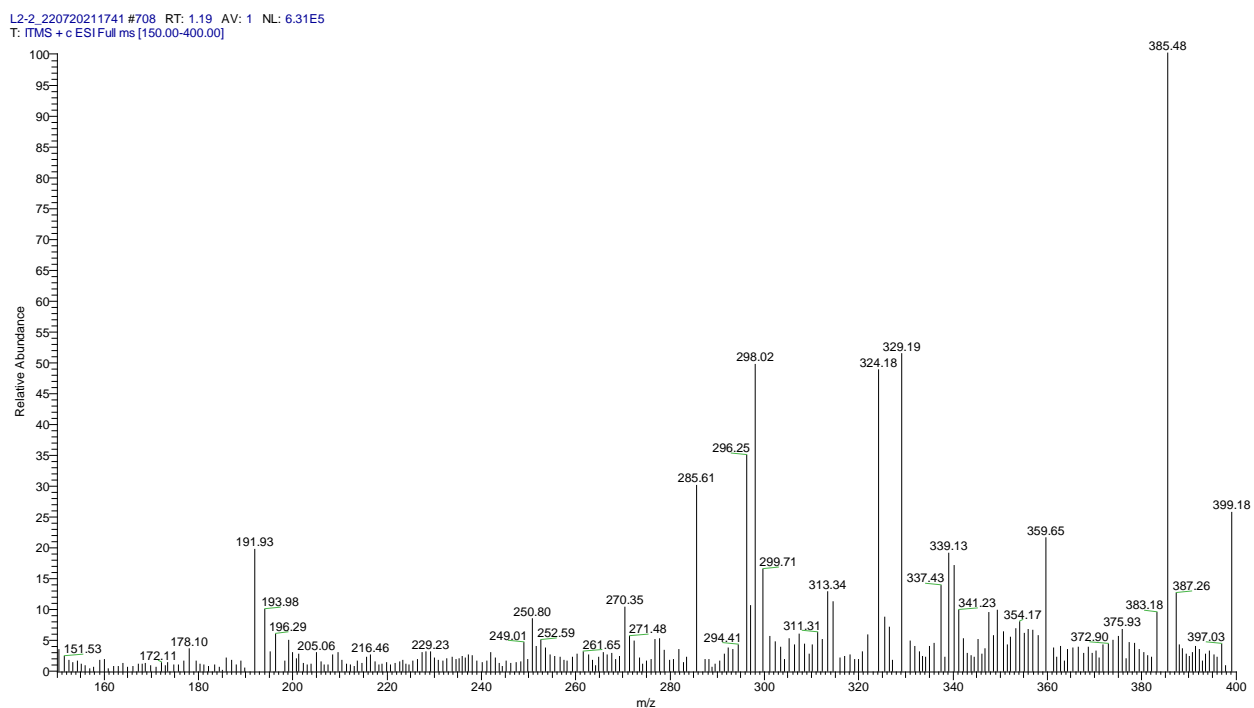


Figure S18: Mass spectrum of compound 11

L5-4_220720192123 #1068 RT: 1.69 AV: 1 NL: 2.85E5
T: ITMS + c ESI Full ms [150.00-475.00]

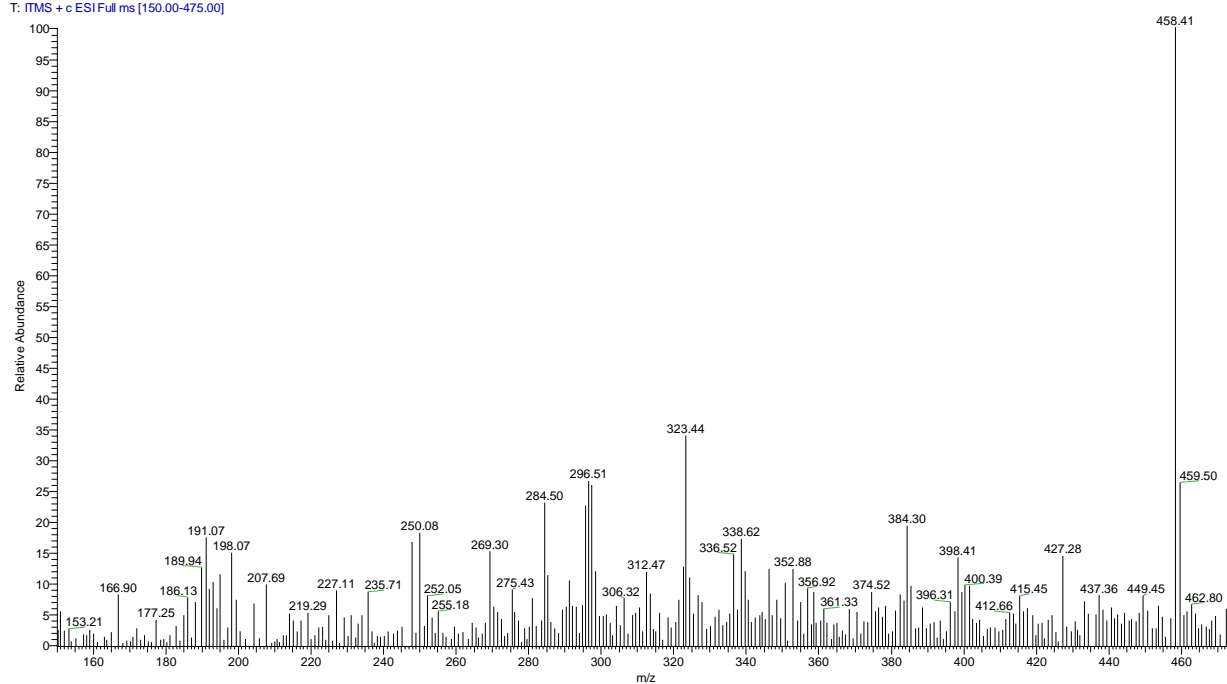


Figure S19: Mass spectrum of compound 15

D1-8_220720211741 #2229 RT: 4.10 AV: 1 NL: 2.86E5
T: ITMS + c ESI Full ms [150.00-635.00]

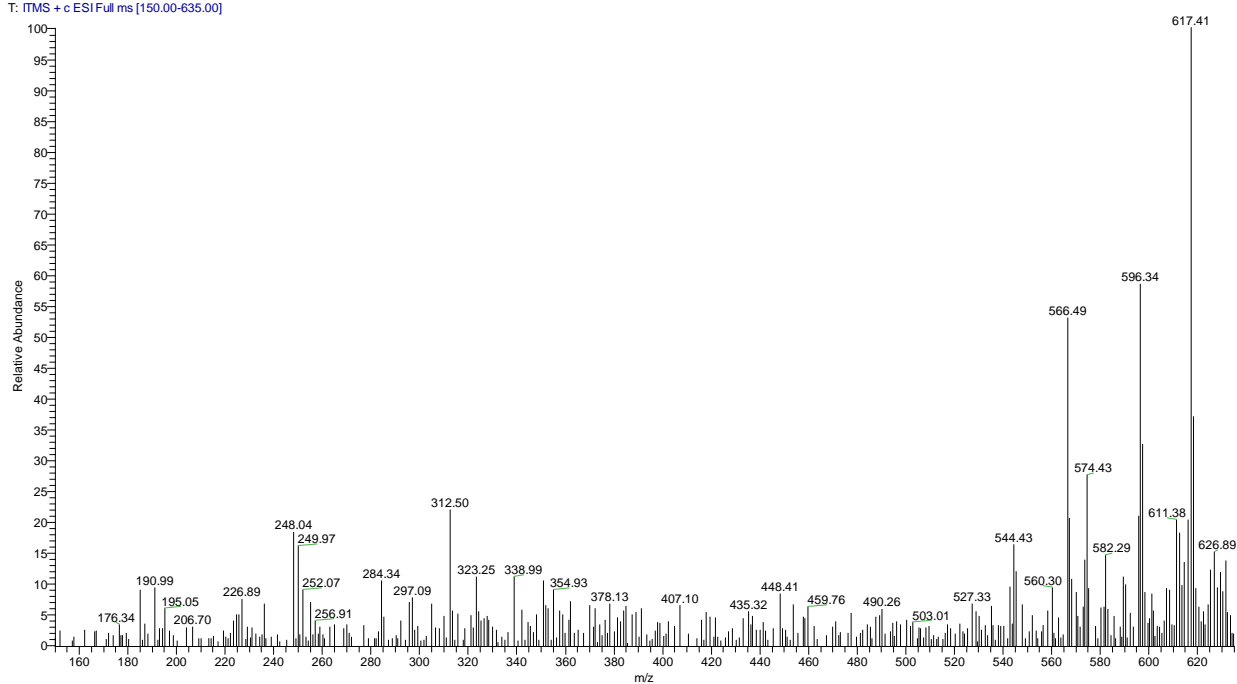


Figure S20: Mass spectrum of compound 5

F1-2_220720211741 #86 RT: 0.15 AV: 1 NL: 8.71E5
T: ITMS + c ESI Full ms [150.00-520.00]

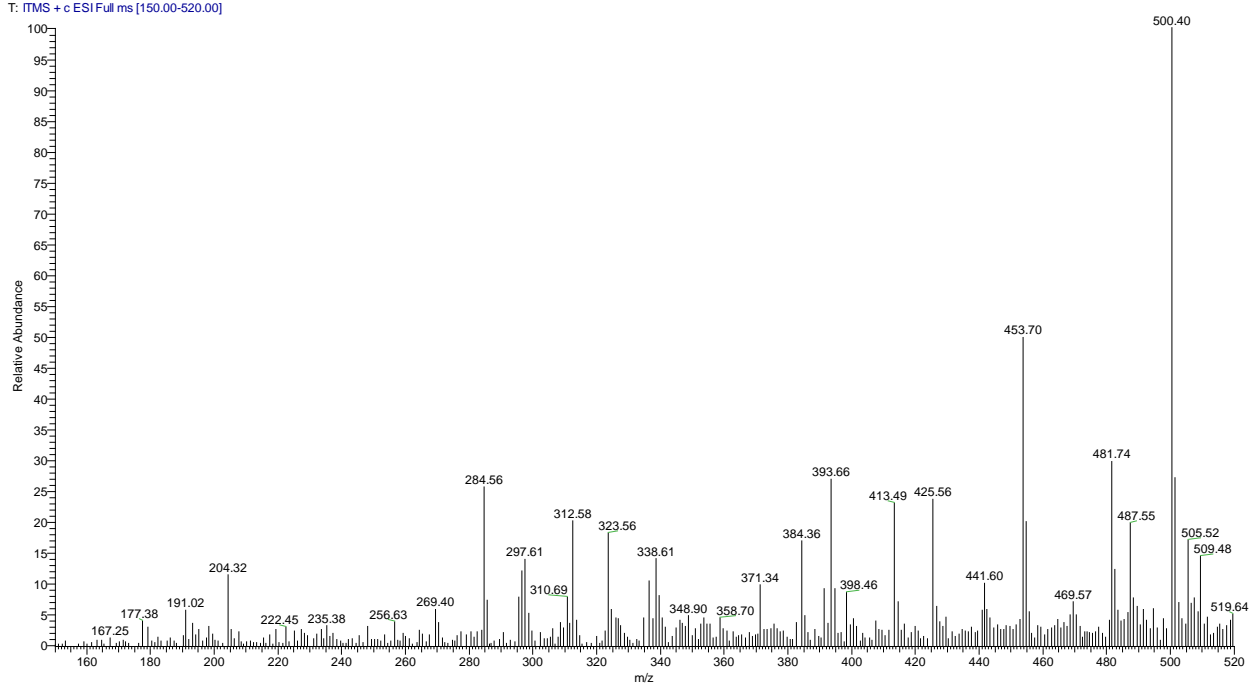


Figure S21: Mass spectrum of compound 7

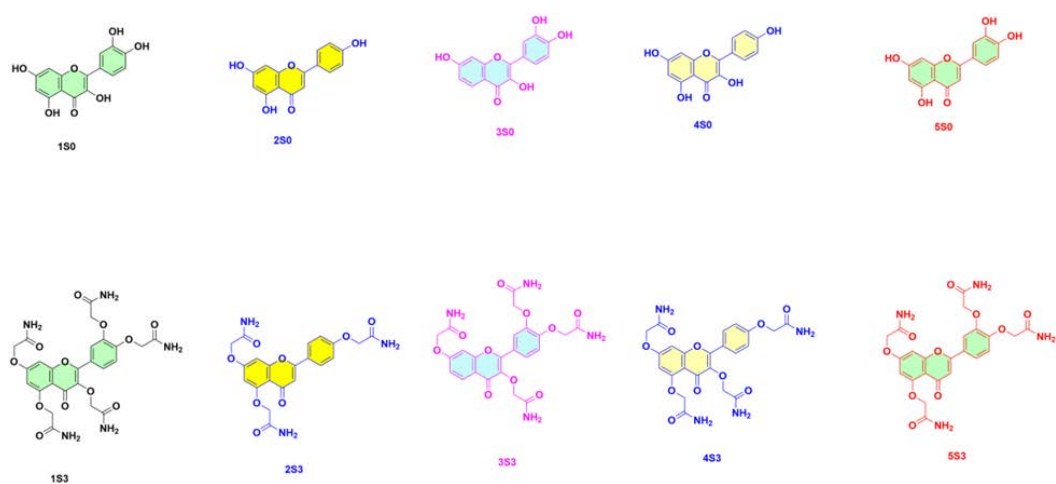


Figure S22: Structure of compounds 1S0-5S0 & 1S3-5S3.