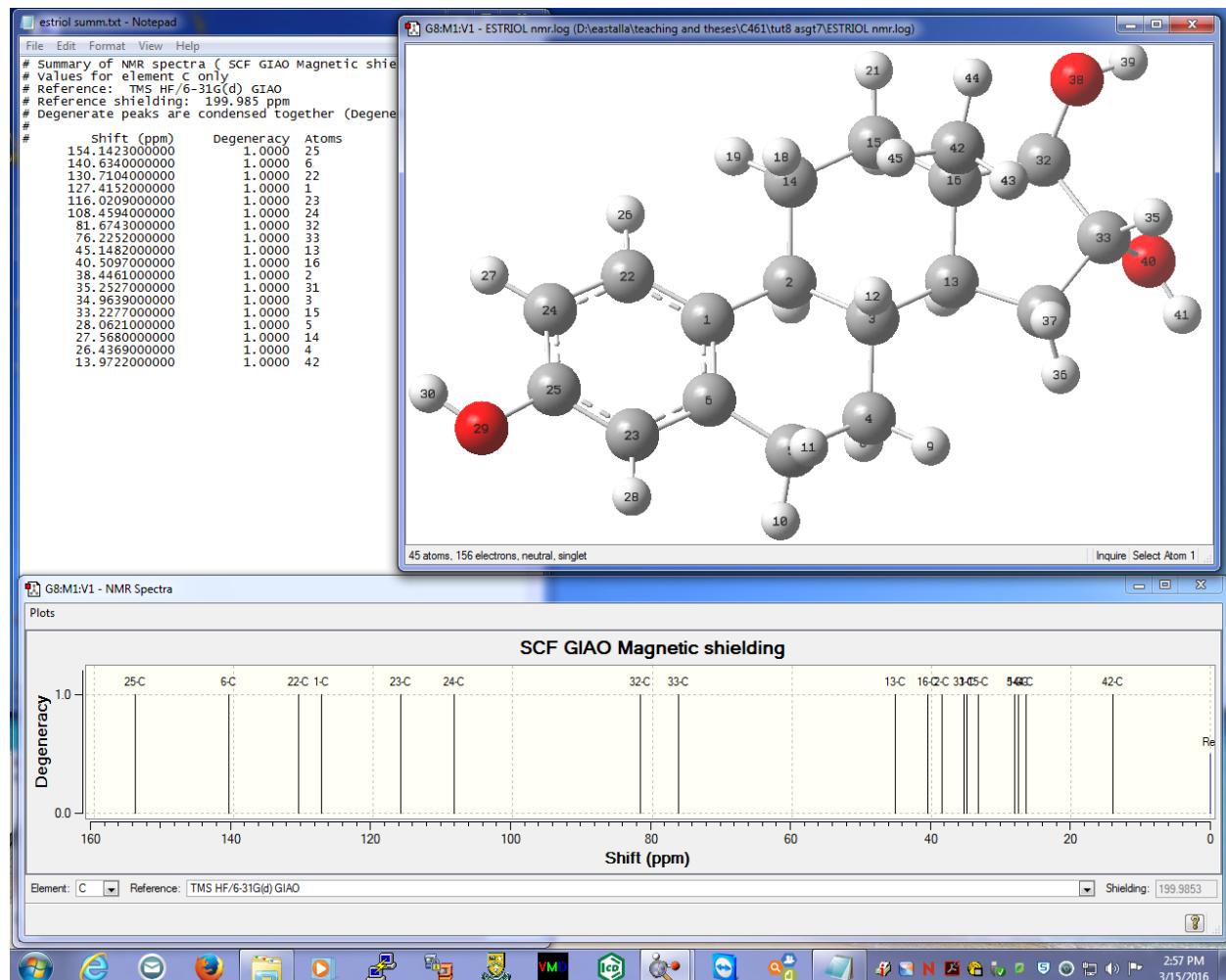


¹³C nmr spectrum of estriol, HF/6-31G(d)//PM6



Brief summary:

150-160 ppm: polar aromatic C

100-150 ppm: aromatic C

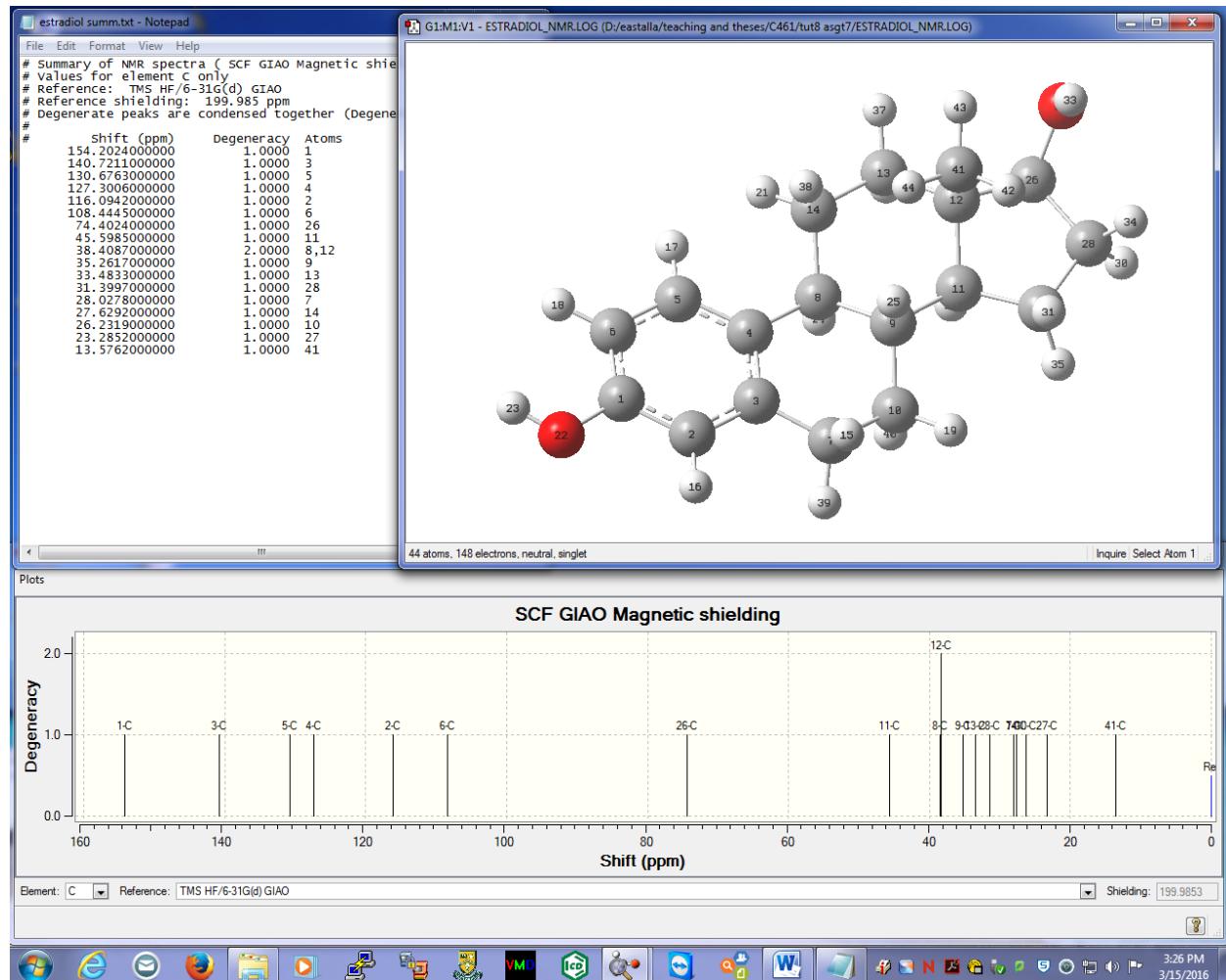
75-85 ppm: polar secondary C

35-45 ppm: tertiary C

25-35 ppm: secondary C

14 ppm: primary (methyl) C

¹³C nmr spectrum of estradiol, HF/6-31G(d)//PM6



Brief summary:

150-160 ppm: polar aromatic C

100-150 ppm: aromatic C

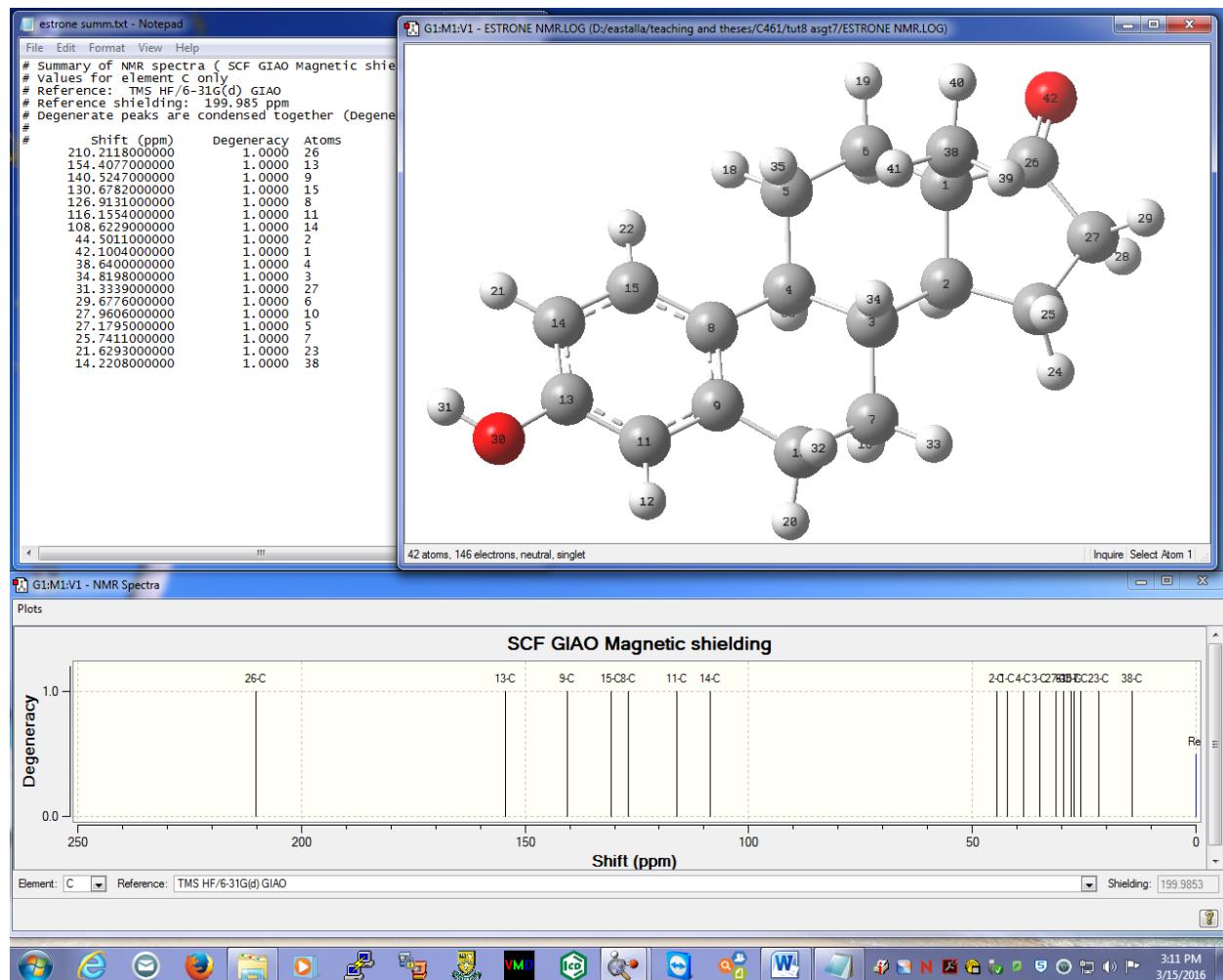
74 ppm: polar secondary C

35-45 ppm: tertiary C

20-35 ppm: secondary C

14 ppm: primary (methyl) C

¹³C nmr spectrum of estrone, HF/6-31G(d)//PM6



Brief summary:

210 ppm: ketone C

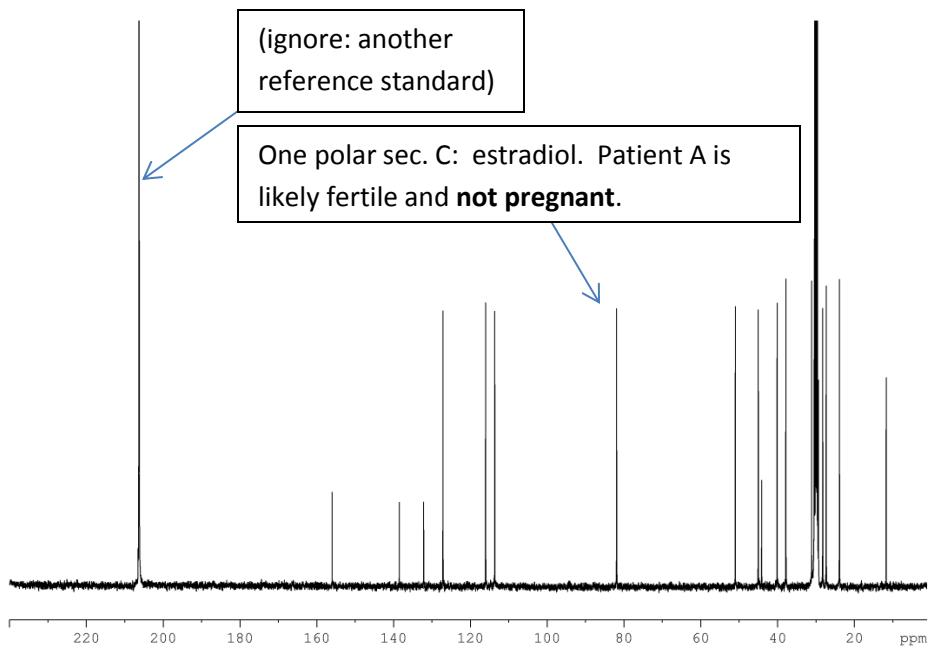
150-160 ppm: polar aromatic C

100-150 ppm: aromatic C

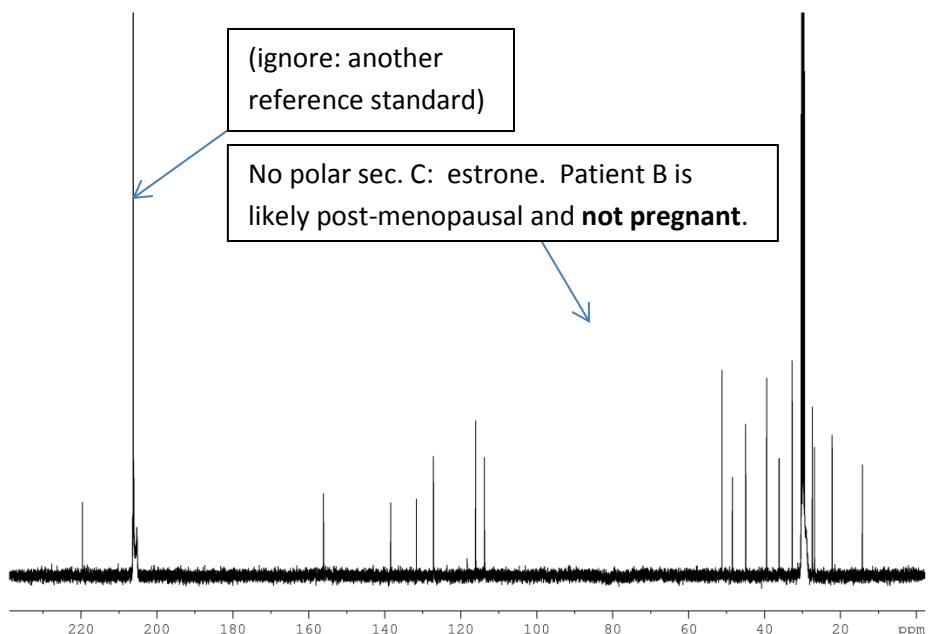
35-45 ppm: tertiary C

20-35 ppm: secondary C

14 ppm: primary (methyl) C



Patient A



Patient B