Additions and corrections to the preparatory problems

Problem 24: (p. 17)
6. In the structures of OxH_2^+, OxH and Ox^-, N is part of the ring, not of an attached group.

Problem 25: (p.19)
3 … change "peak is 1.15" to "peak 1.15% of the base peak".

Problem 27: (p. 20-21)
3 When treated with 2 M NaOH (under reducing conditions)

(top of p. 21) Apigenin → NaOH 2M (above arrow), Na-Hg amalgam (below arrow)

Spectrum I, Compound D ($C_6H_6O_3$). 200 MHz ^{1}H-NMR (simulated spectrum (ACD-data bases). Note that phenolic H atoms do not appear due to rapid exchange.

Spectrum II, Compound E ($C_9H_{12}O_2$): 60 MHz ^{1}H-NMR spectrum in DMSO-d_6 + $CDCl_3$.

Problem 36: (p. 34)
C. 6. Fmoc loading: mmol/g resin=(A_{sample}-A_{blanc})/1.75 x mg of resin, or, equivalently,

Fmoc loading=$\dfrac{n}{m}=\dfrac{A_{sample}-A_{blank}}{1750\,m}$, where n is the amount of Fmoc-amino acid attached to resin (in mmol) and m the mass of resin (in g).

Solution to problem 1: (p. 42)
In the 1st equation π should be π^2.

Solution to problem 6: (p. 44)
The answer to the second question is A (as implied by the solution for the first question).