Student name: _____ Date: _____ [tab-a020]

[Exercise]

- Fill again the table of splittings on the simulator but changing the order of the two larger constants, that is, $a_H^{2,2',6,6'} = 2 \cdot a_H^{4,4'}$. Simulate the new spectrum (simulation 2).
- Measure the heights of the central lines of each quintete and the total length of the spectrum.
- Complete the Table the intensities measured for both spectra.
- Enclosed the result in the laboratory notebook.

Intensities Table 3. Biphenyl anion radical [a020].

Simulation 1 ($a_H^{4,4'} = 2 \cdot a_H^{2,2',6,6'}$) L (spectrum) = ... mT.

Intensities of the central lines of the **nine** quintets									
	Peak-1	Peak-2	Peak-3	Peak-4	Peak-5	Peak-6	Peak-7	Peak-8	Peak-9
Pixels									
Normalized[a]									
Theoretical[b]									

Simulation 2 ($a_H^{2,2',6,6'} = 2 \cdot a_H^{4,4'}$) L (spectrum) = ... mT.

Intensities of the central lines of the **eleven** quintets											
	Peak-1	Peak-2	Peak-3	Peak-4	Peak-5	Peak-6	Peak-7	Peak-8	Peak-9	Peak-10	Peak-11
Pixels											
Normalized[a]											
Theoretical[c]											

[a] Normalize the intensities so that the smallest one will worth the unit.
[b] Theoretical intensities given in section 8.1.10.
[c] Deduce the theoretical intensities and write them down.