Electronic Supplementary Information for: Computational model of inductively coupled plasma sources in comparison to experimental data for different torch designs and plasma conditions. Part I: experimental study

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Table S-1. Wavelength, excitation energies, transition probabilities and degree of degeneracy of levels of Fe lines, which were used for calculation of the excitation temperature. Fundamental data are taken from [1]

| Wavelength (nm) | Transition probability ($10^6$ $s^{-1}$) | Excitation energy (eV) | Degree of degeneracy |
|---|---|---|---|
| 371.994 | 16.2 | 3.33202 | 11 |
| 373.487 | 90.1 | 4.1777 | 11 |
| 373.713 | 14.1 | 3.36826 | 9 |
| 374.556 | 11.5 | 3.39651 | 7 |
| 374.949 | 76.3 | 4.22036 | 9 |
| 375.824 | 63.4 | 4.25622 | 7 |

Table S-2. Wavelength, transition probabilities, and excitation energies of lines of the OH (0,0) rotational band ($A^2\Sigma^+ \rightarrow X^2\Pi_i$), which were used for calculation of the OH rotational temperature. Fundamental data are taken from [2].

| Wavelength (nm) | Transition probability ($10^9$ $s^{-1}$) | Excitation energy (eV) |
|---|---|---|
| 308.328 | 3.37 | 4.06414 |
| 308.52 | 4.22 | 4.08507 |
| 308.734 | 5.06 | 4.11009 |
| 309.859 | 8.41 | 4.25054 |
| 311.022 | 10.88 | 4.39673 |
| 314.746 | 4.75 | 4.29517 |
| 317.708 | 6.4 | 4.51219 |
| 318.608 | 6.81 | 4.57538 |
| 319.485 | 7.22 | 4.64199 |

**References**


1. NIST Atomic Spectra Database, available: http://physics.nist.gov/asd. National Institute of Standards and Technology, Gaithersburg, MD, accessed on 01.06.2015.

2. G.H. Dieke, H.M. Crosswhite, "The ultraviolet bands of OH fundamental data", *J. Quant. Spectrosc. Radiat. Transfer*, 1962, **2**, 97-199.