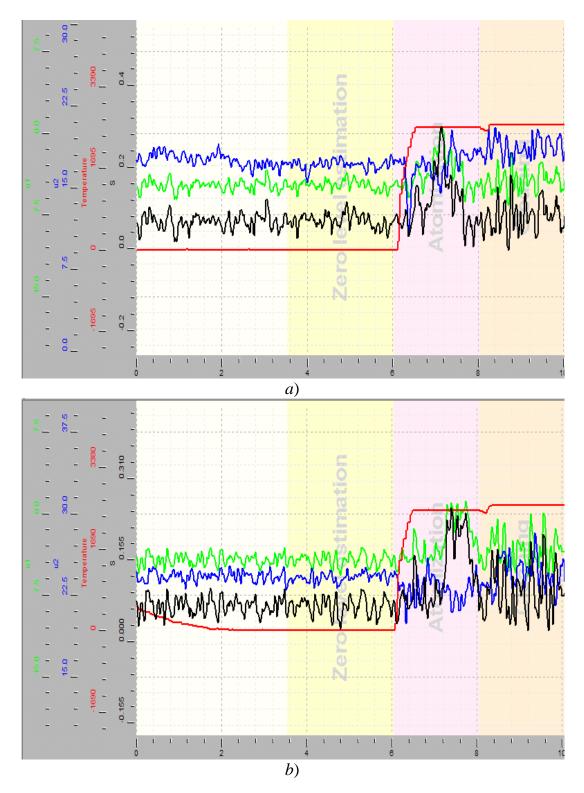
ELECTRONIC SUPPLEMENTARY INFORMATION (ESI) FOR JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY

Natalya B. Ivanenko, Nikolay D. Solovyev, Anatoly A. Ivanenko and Denis V. Navolotskii Biological monitoring of arsenic pollution based on whole blood arsenic atomic absorption assessment with *in situ* hydride trapping

Absorbance profiles for different surface coatings



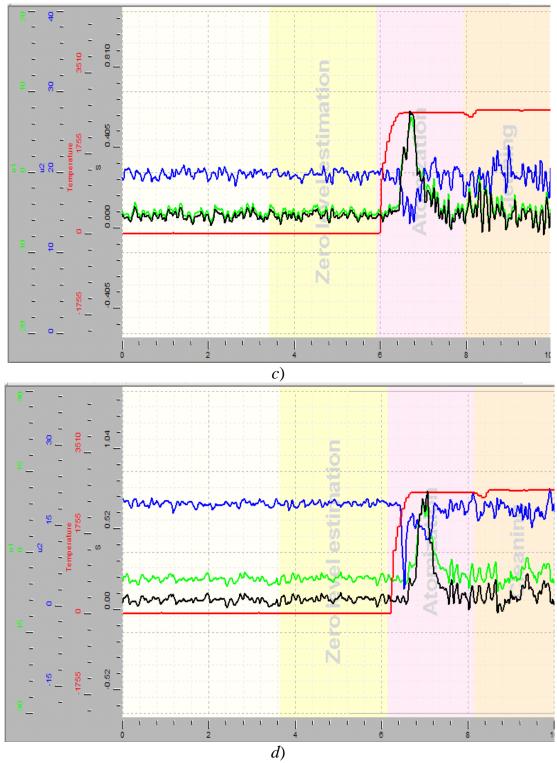


Fig. 1 Absorbance profiles for individual modifiers for 1000 pg arsenic after *in situ* trapping of AsH₃. Analytical signals were measured under optimized conditions of both arsenic reduction and absorbance registration. The data are presented as native print-screens from atomic absorption instrument software. Modifiers: *a*) unmodified furnace; *b*) Na₂WO₄ (W); *c*) Pd(NO₃)₂ (Pd); *d*) H₂PtCl₆ (Pt). Designations (all in relative units): black – corrected absorbance (analytical signal); blue – registered intensity of absorbance line 193.7 nm; red – temperature; green – selective absorbance (for more details on analytical signals in Zeeman modulation polarization spectrometry see S.E. Sholupov and A.A. Ganeyev, *Spectrochim. Acta B*, 1995, **50**, 1227-1236)

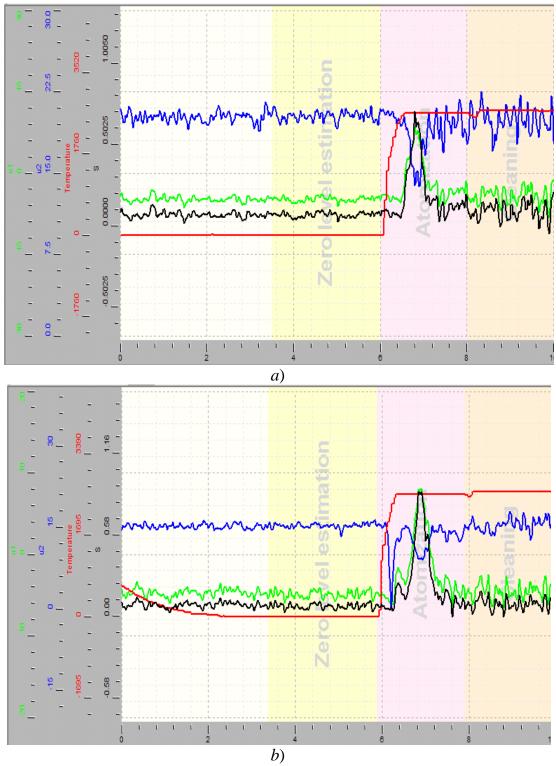


Fig. 2 Absorbance profiles for double layer modifiers for 1000 pg arsenic after *in situ* trapping of AsH₃. Analytical signals were measured under optimized conditions of both arsenic reduction and absorbance registration. The data are presented as native print-screens from atomic absorption instrument software. Modifiers: *a*) Na₂WO₄ – Pd(NO₃)₂ (W-Pd); *b*) Na₂WO₄ – H₂PtCl₆ (W-Pt). Designations are the same as in Fig. 1