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A new synthesis of azopyrazoles by oxidation of *C*-aminopyrazoles on a NiO(OH) electrode

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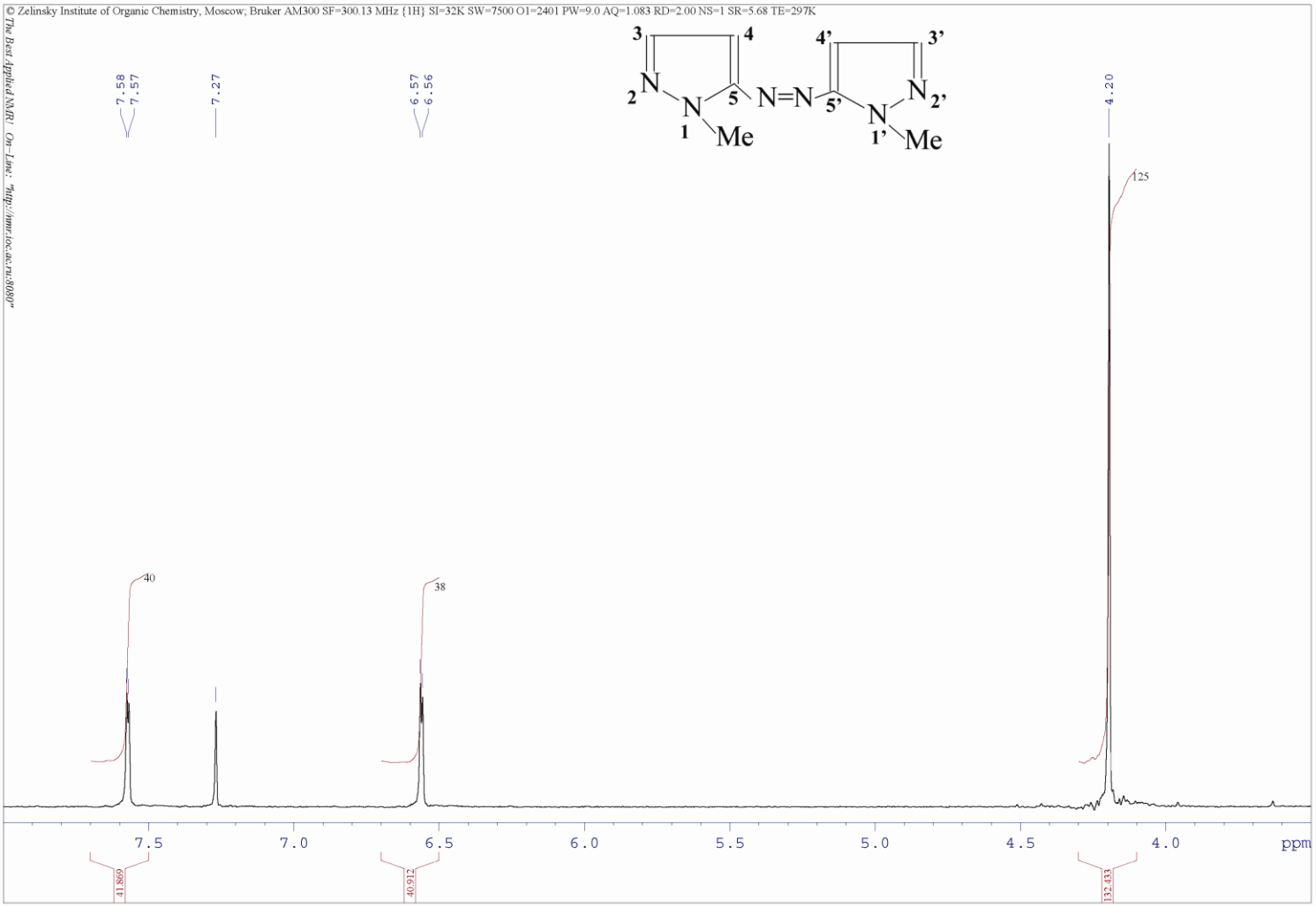
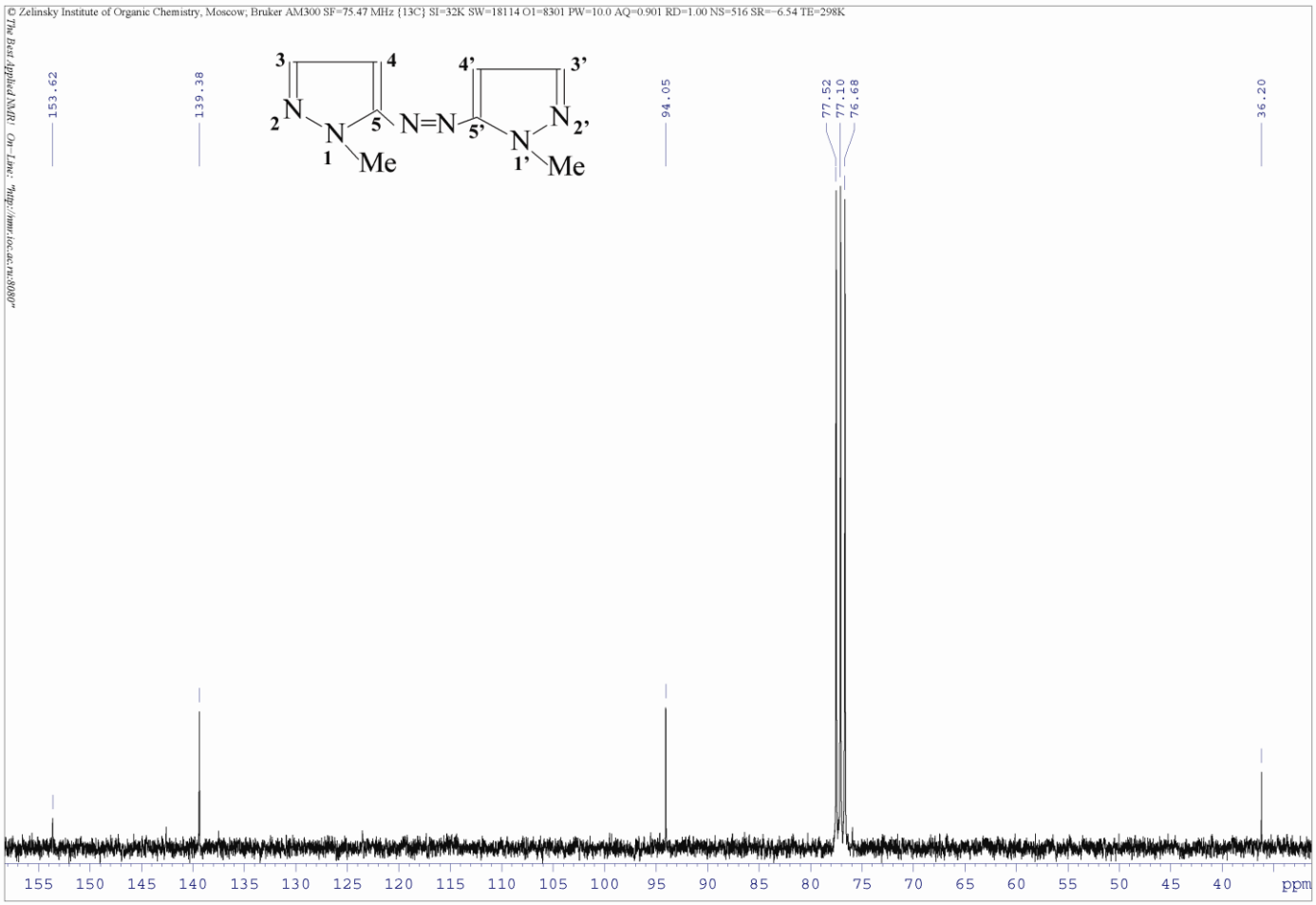
Spectral data for *(E)-1,2-bis(1-methyl-1H-pyrazol-5-yl)diazene* **2a**

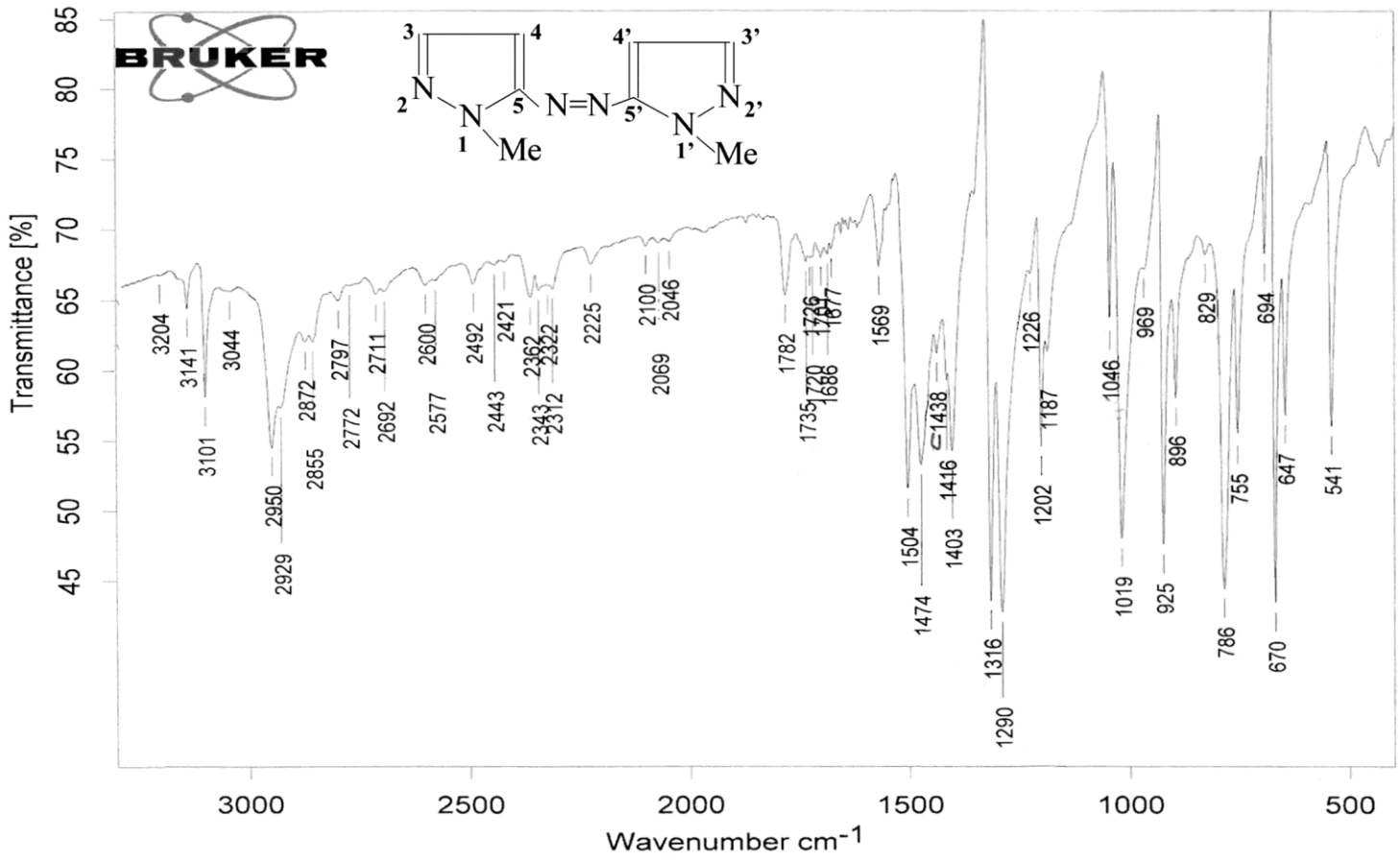
^{1}H NMR (300.13 MHz, $CDCl_3$) δ: 4.20 (s, 6H, $N^{1}CH_3$, $N^{1'}CH_3$), 6.56 (d, 2H, $C^{4}H$, $C^{4'}H$, $J_{4\text{-}3}$ 2.1 Hz), 7.57 (d, 2H, $C^{3}H$, $C^{3'}H$, $J_{3\text{-}4}$ 2.1 Hz)



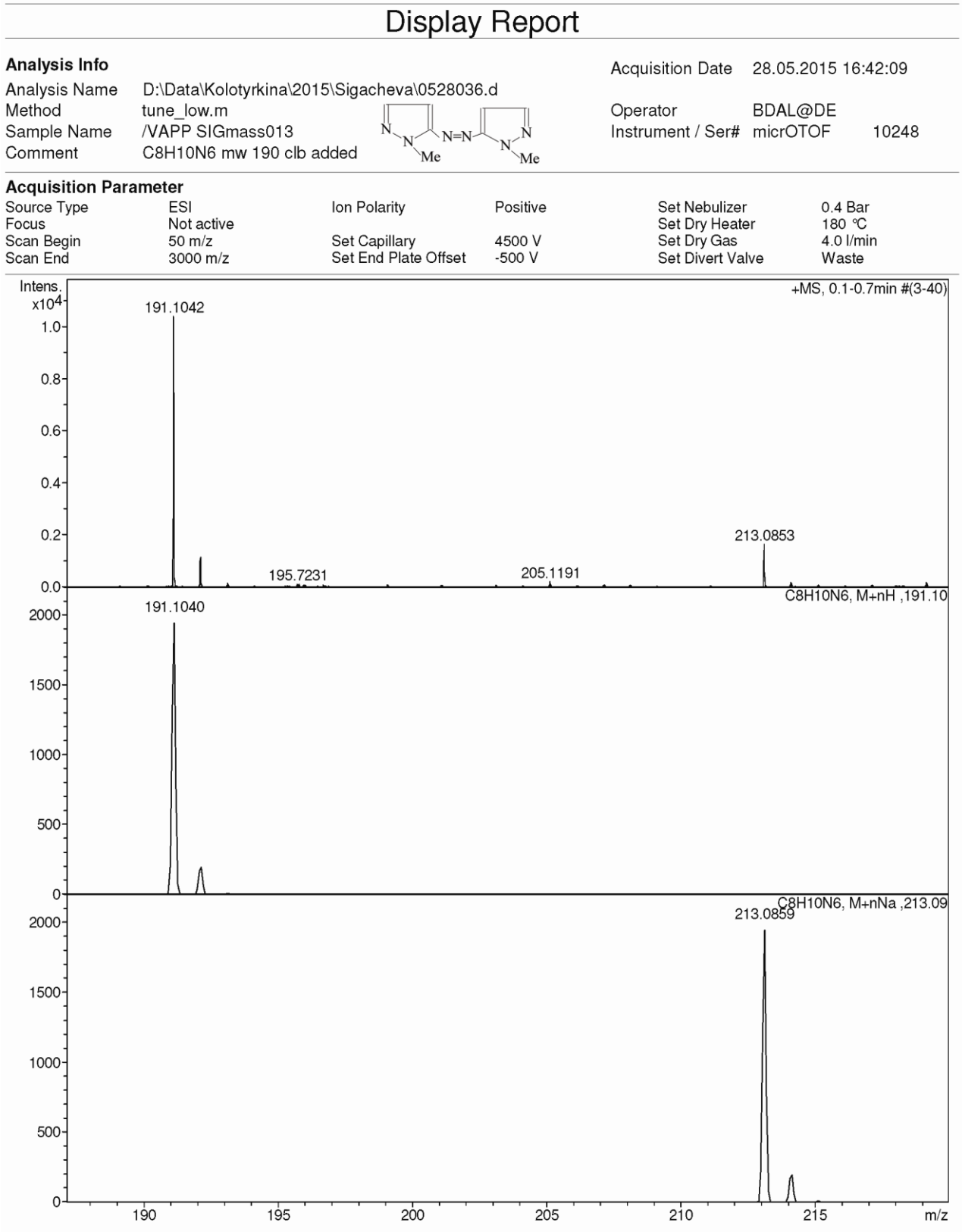
^{13}C NMR (75.47 MHz, $CDCl_3$) δ: 36.20 (N^1CH_3, $N^{1'}CH_3$), 94.05 (C^4H, $C^{4'}H$), 139.38 (C^3H, $C^{3'}H$), 153.62 (C^5, $C^{5'}$)



IR (KBr, υ, cm^{-1}): 3101, 2955, 2492, 2362, 1782, 1735, 1569, 1504, 1474, 1403, 1316, 1290, 1202, 1046, 925, 896, 786, 755



HRMS (ESI) m/z calcd for $C_8H_{11}N_6$ 191.1040 [M + H]+, found 191.1042.



Elemental analysis:

Calc. for $C_8H_{10}N_6$ (%): C, 50.57; H, 5.26; N, 44.20;

Found (%): C, 50.97; H, 5.43; N, 43.45.