

Supplementary Material
A new methodology for the synthesis of *N*-acylbenzotriazoles

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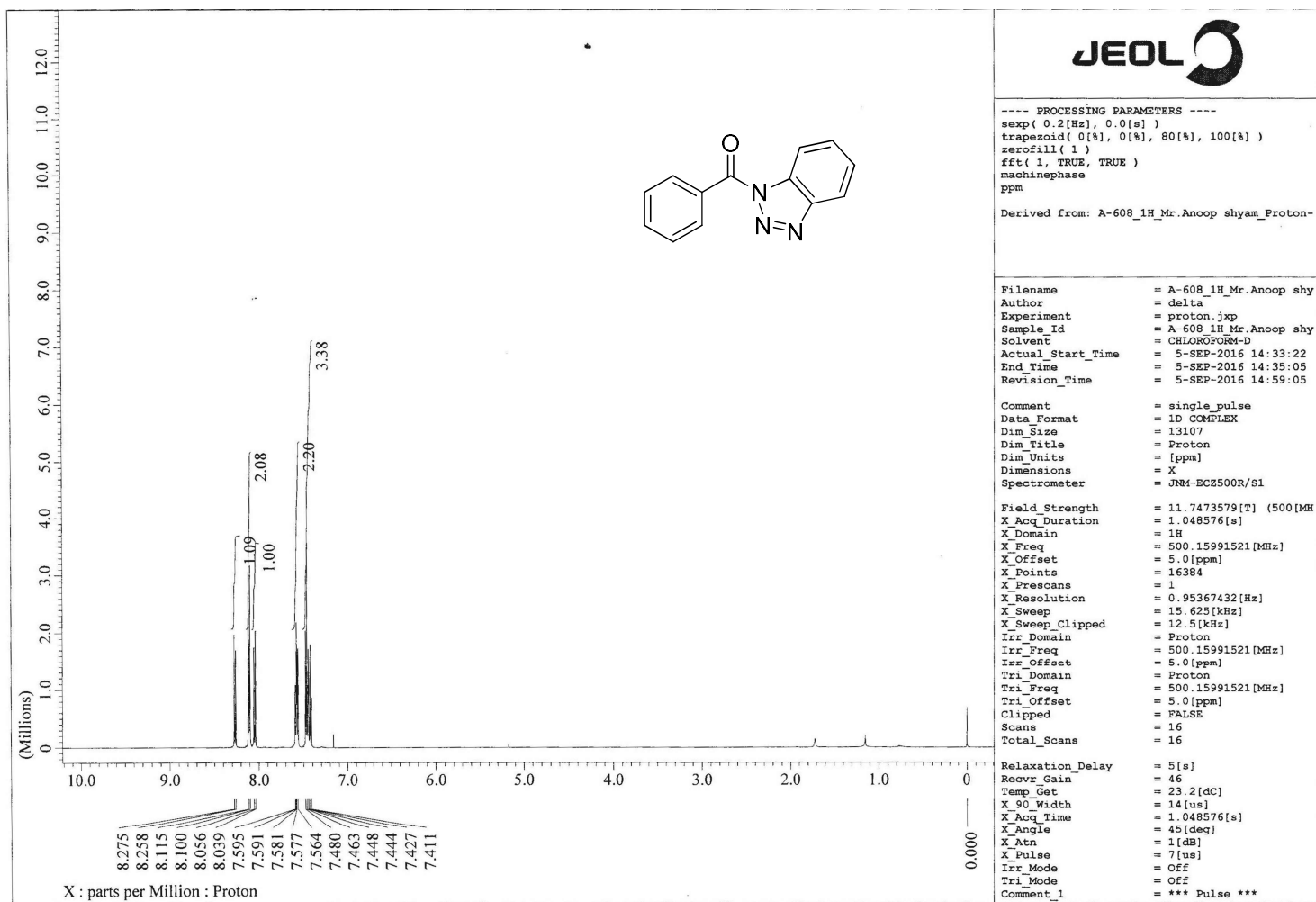
Dedicated to the late Prof. Alan R Katritzky for his excellent contributions to benzotriazole chemistry

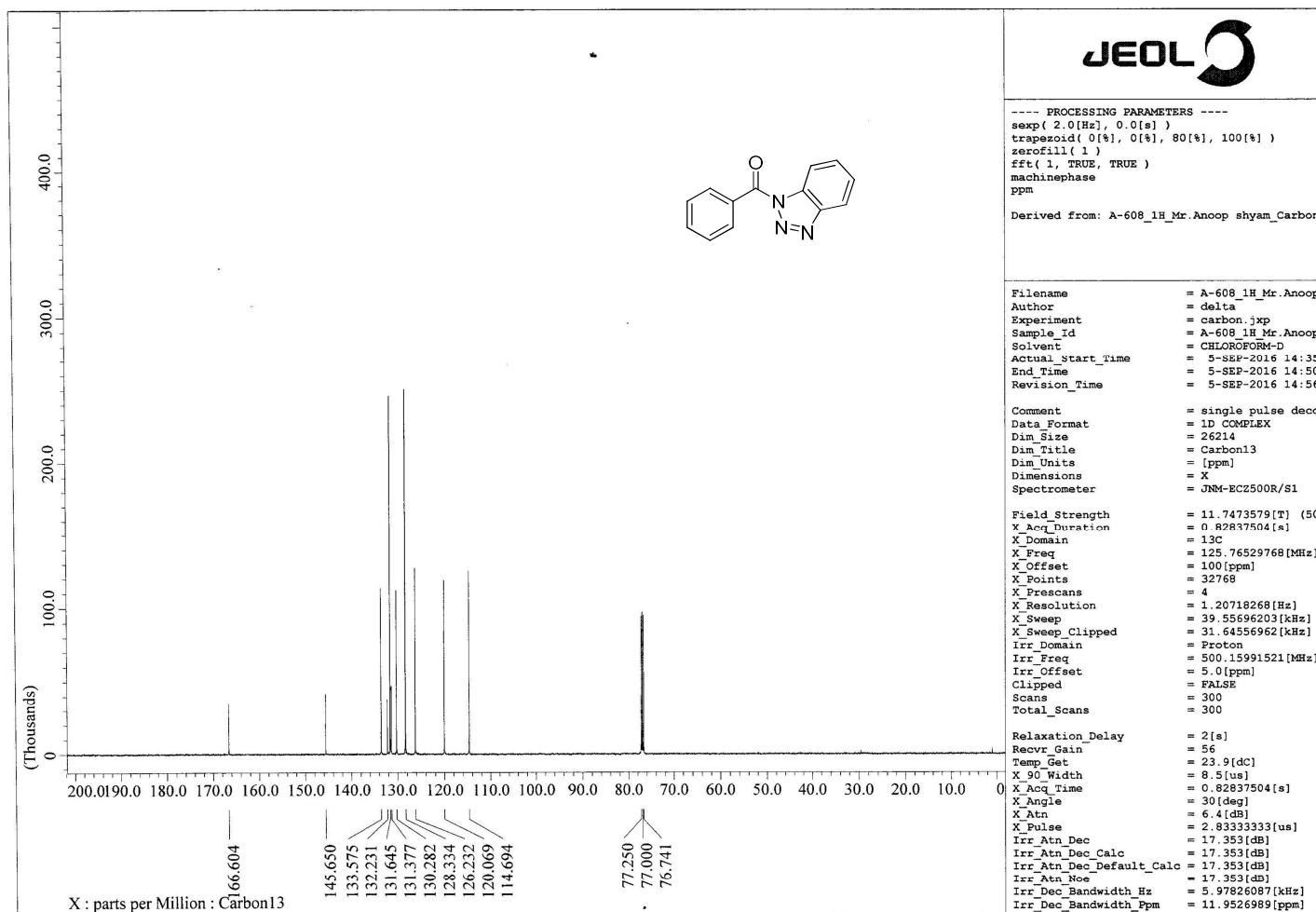
¹H and ¹³C NMR spectrum of *N*-Acylbenzotriazole derivatives (RCOBt, **2a-o**)

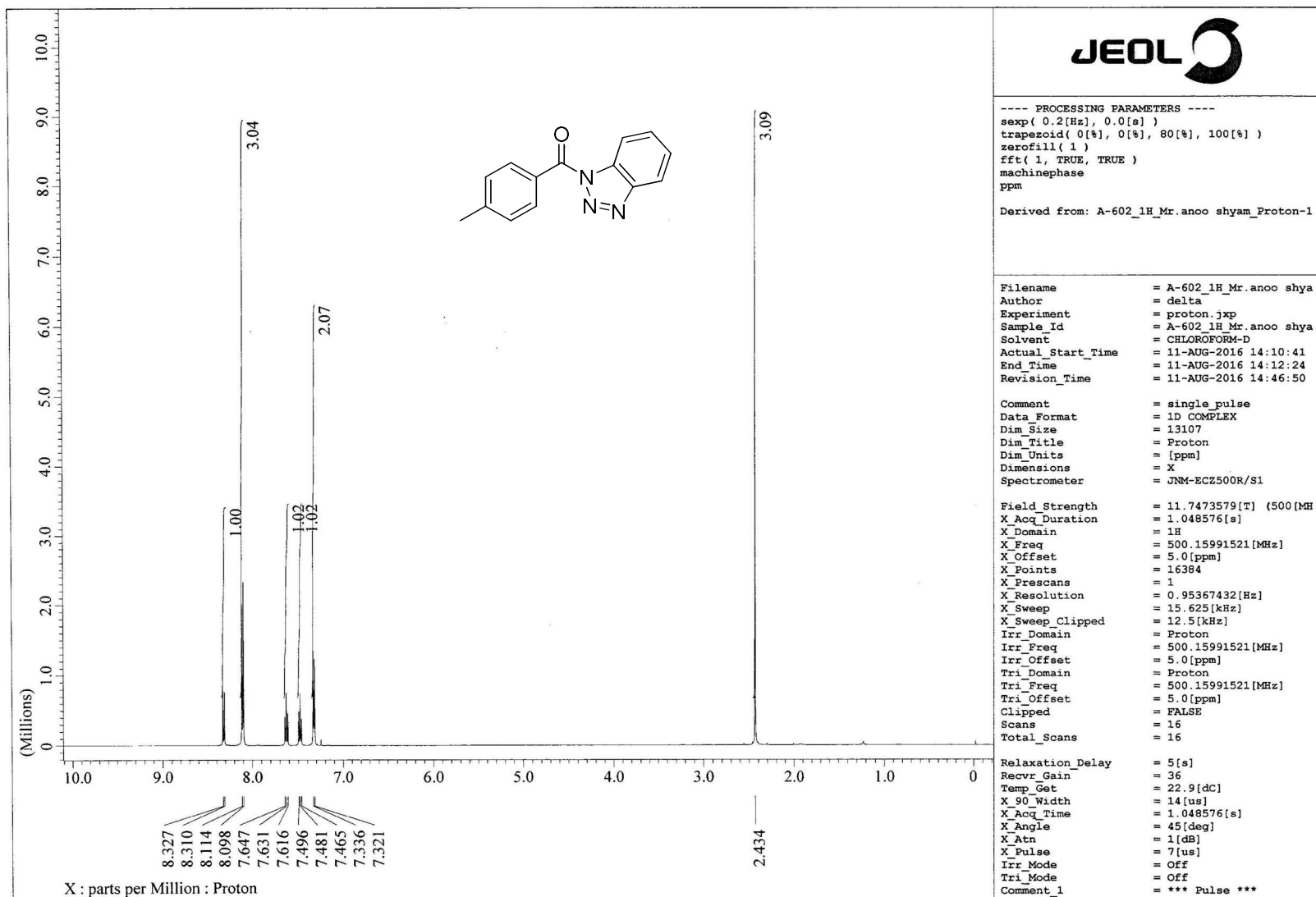
S3-S32

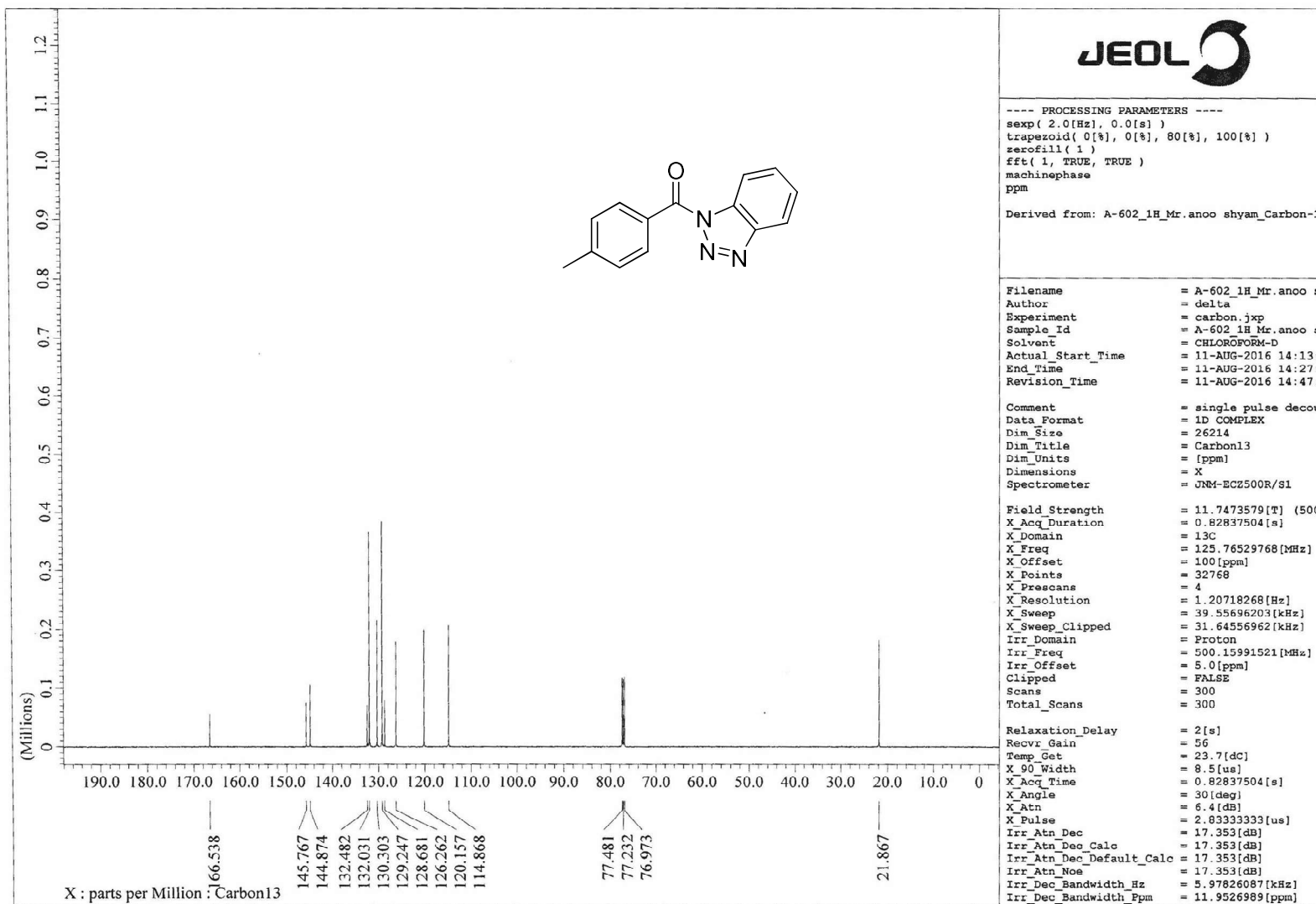
Reference

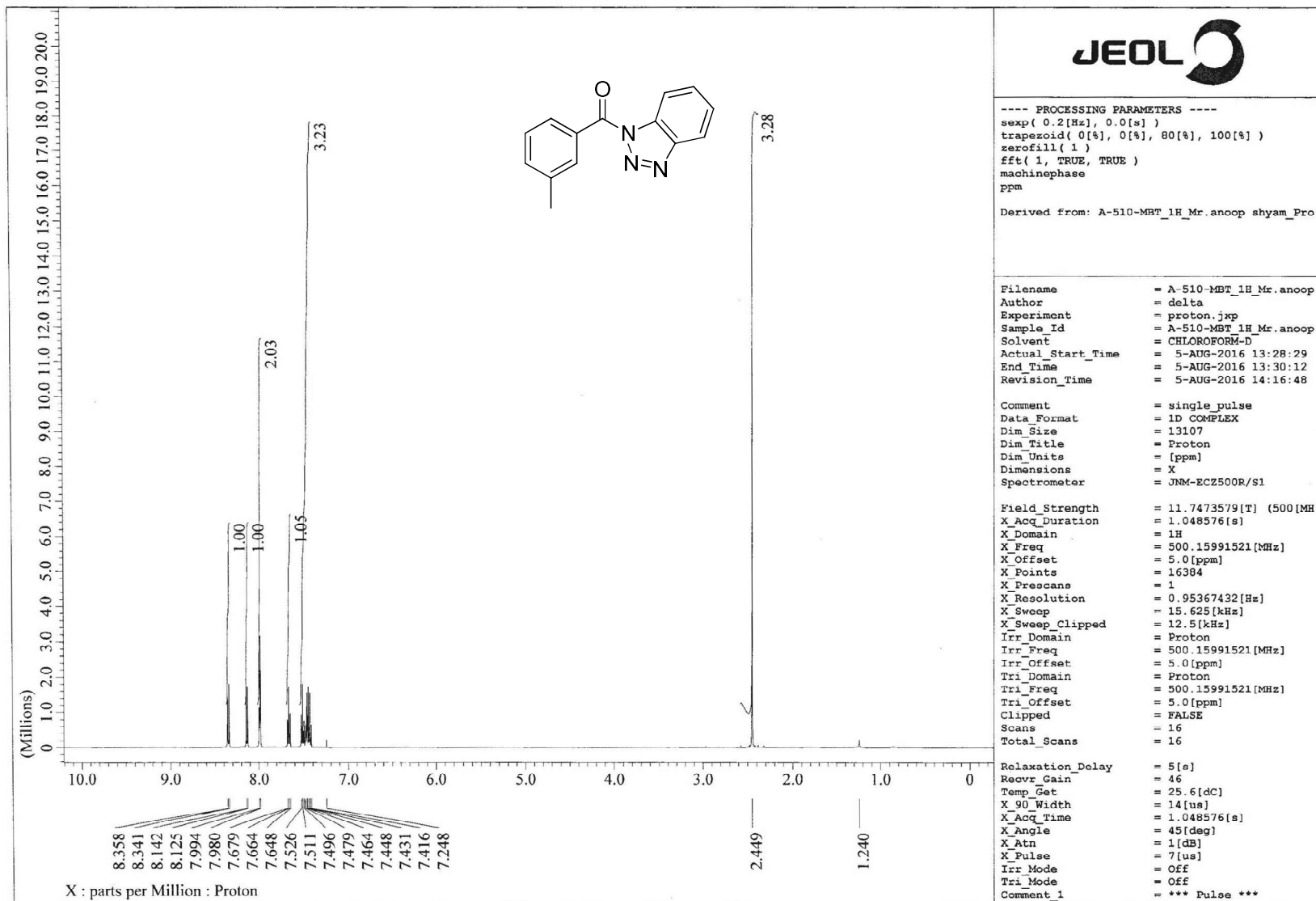
- [1] Kale, R. R.; Prasad, V.; Tiwari, V. K. *Lett. Org. Chem.* **2010**, 7, 136.
- [2] Singh, A. S.; Kumar, D.; Mishra, N.; Tiwari, V. K. *RSC Adv.* **2016**, 6, 84512.
- [3] Katritzky, A. R.; Suzuki, K.; Singh, S. K.; He, H-Y. *J. Org. Chem.* **2003** 68, 5720

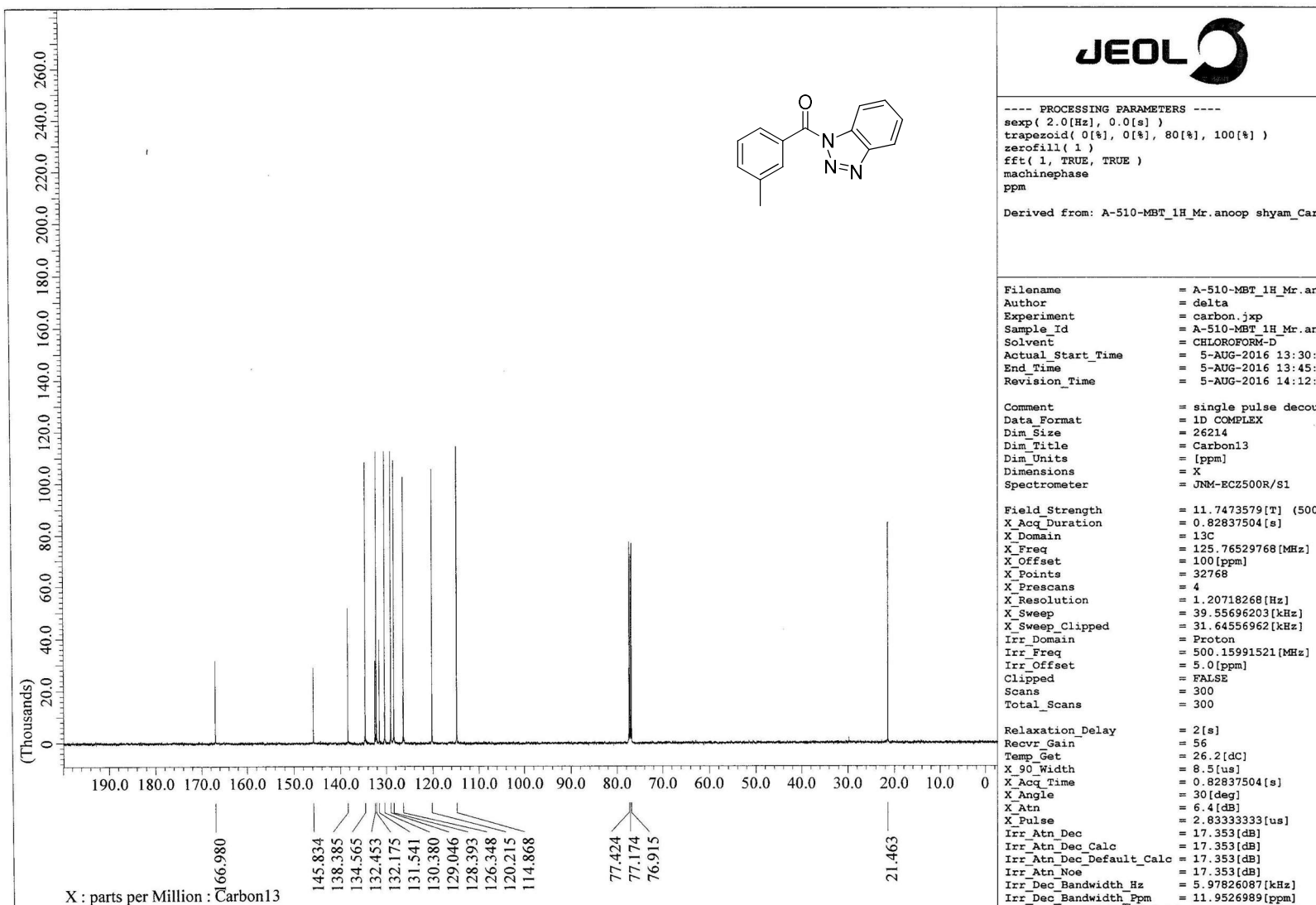
Spectrum 1: ^1H NMR (500 MHz, CDCl_3) of compound 2a

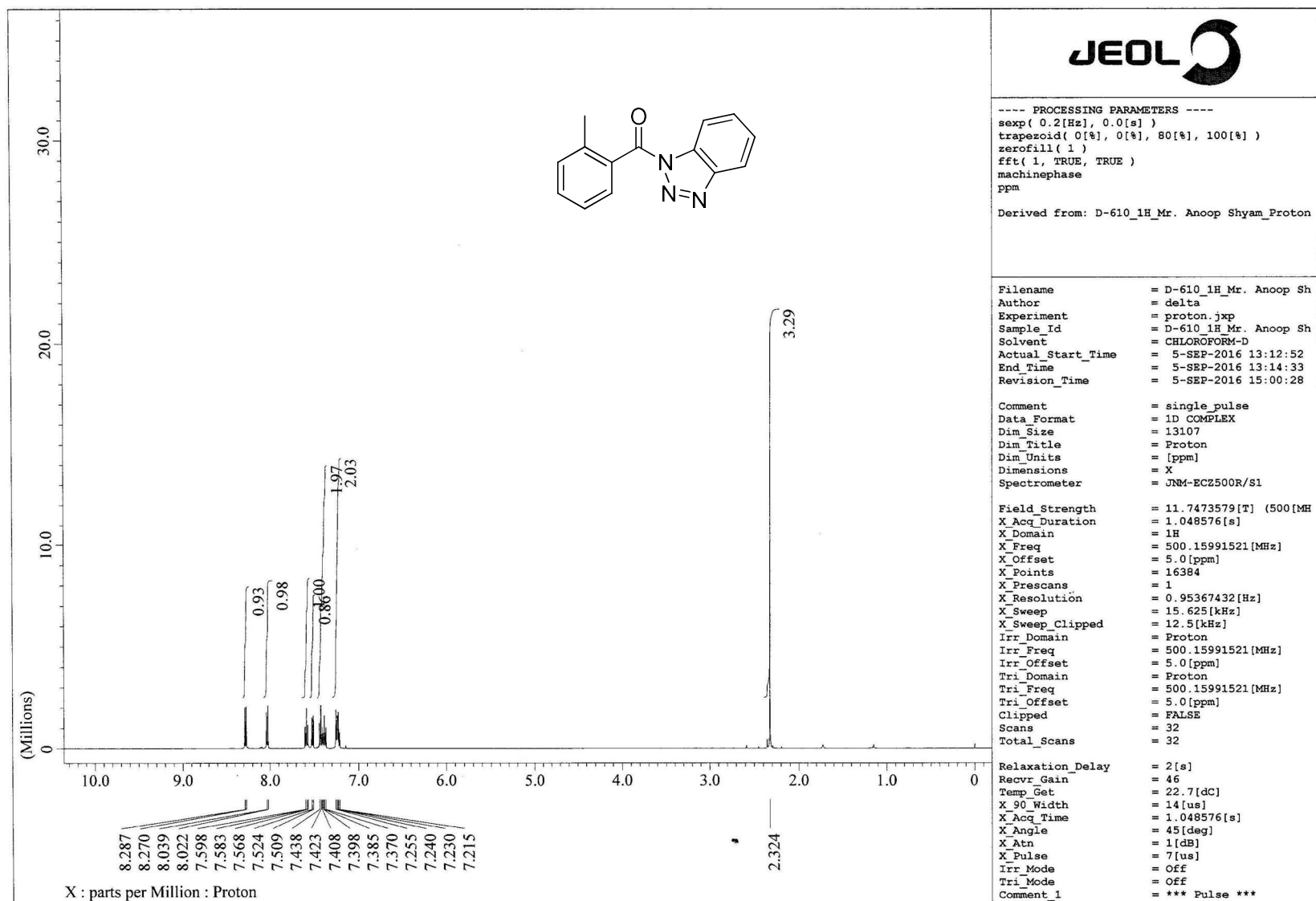
Spectrum 2: ^{13}C NMR (125 MHz, CDCl_3) of compound 2a

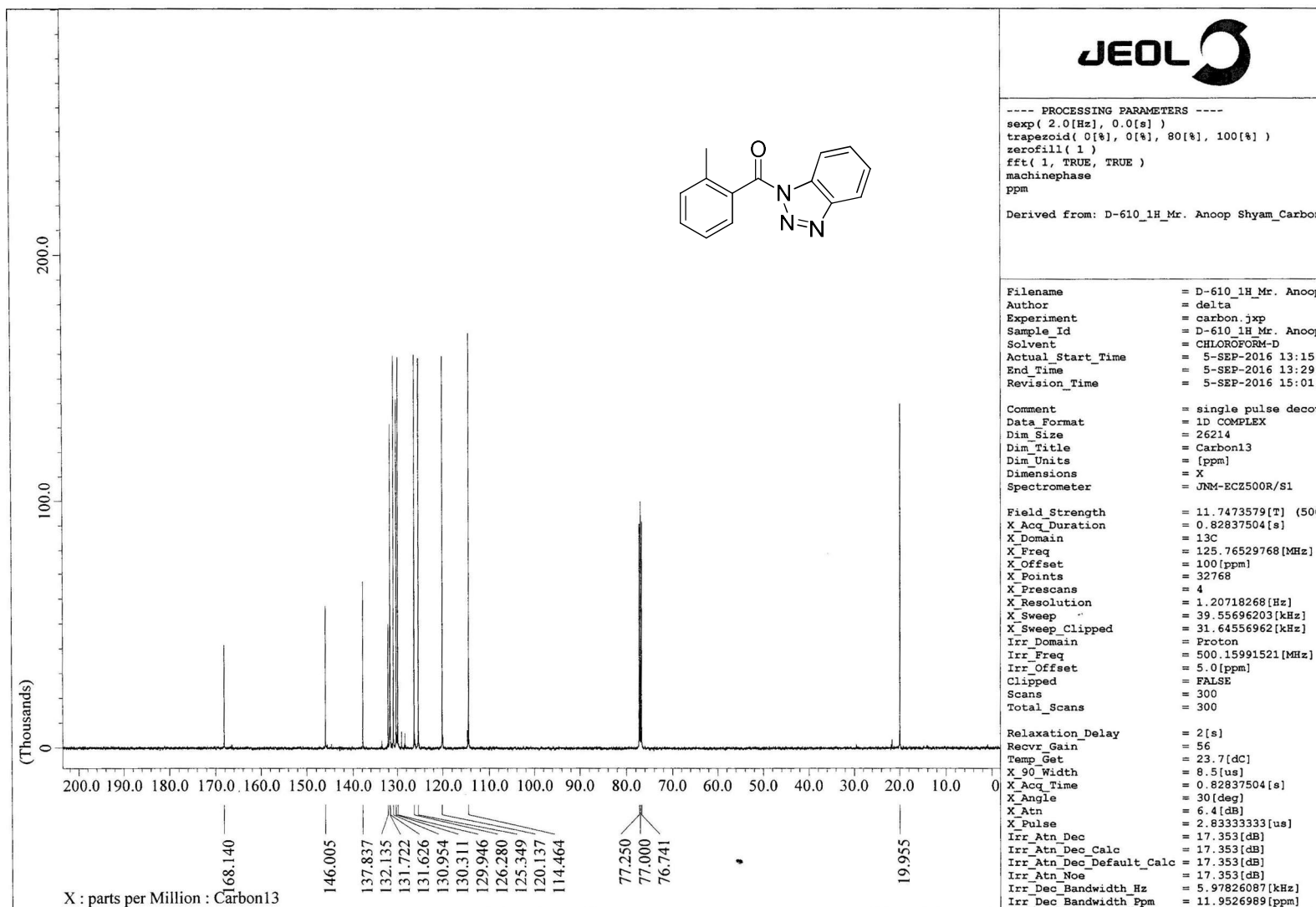
Spectrum 3: ^1H NMR (500 MHz, CDCl_3) of compound 2b

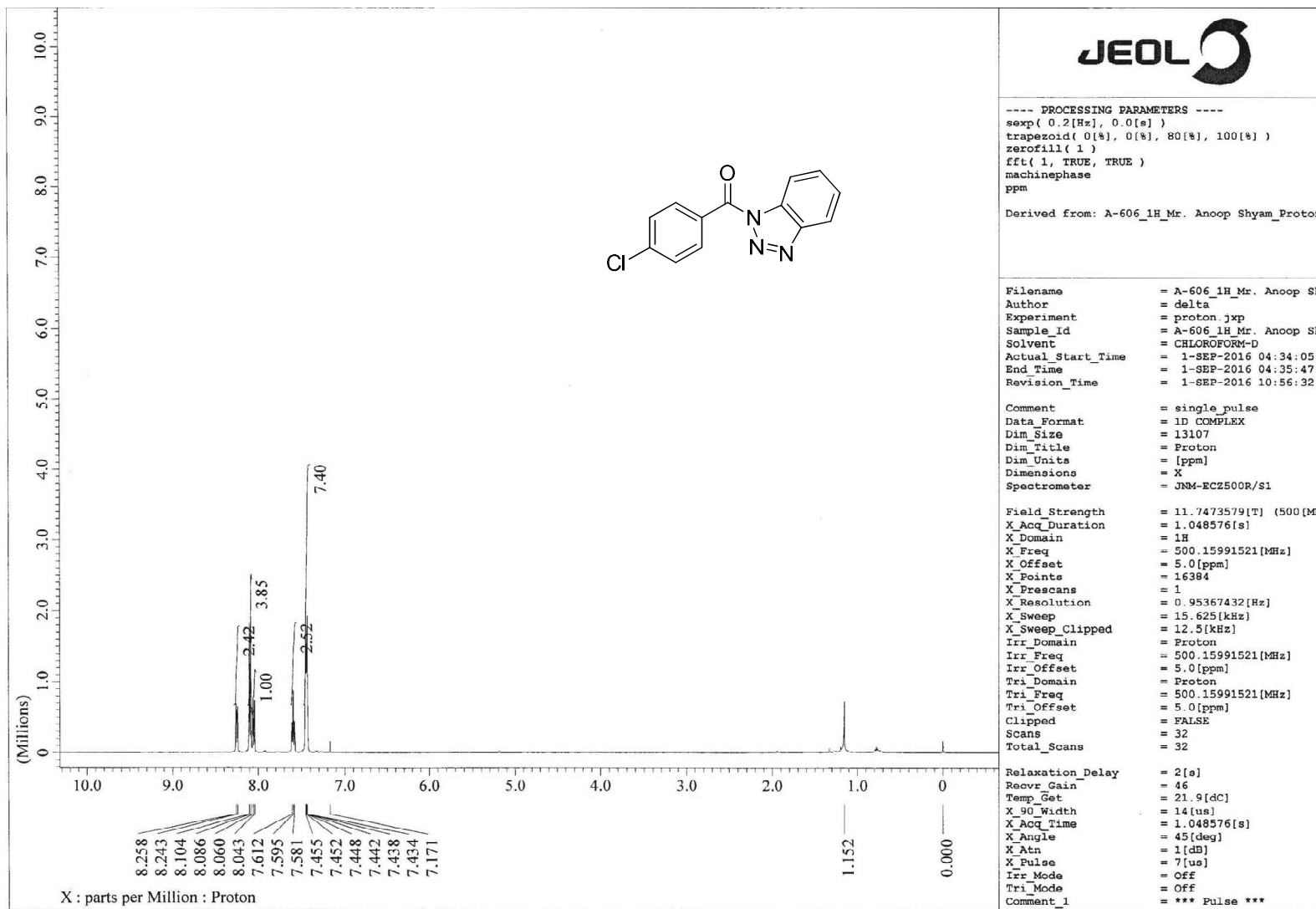
Spectrum 4: ^{13}C NMR (125 MHz, CDCl_3) of compound 2b

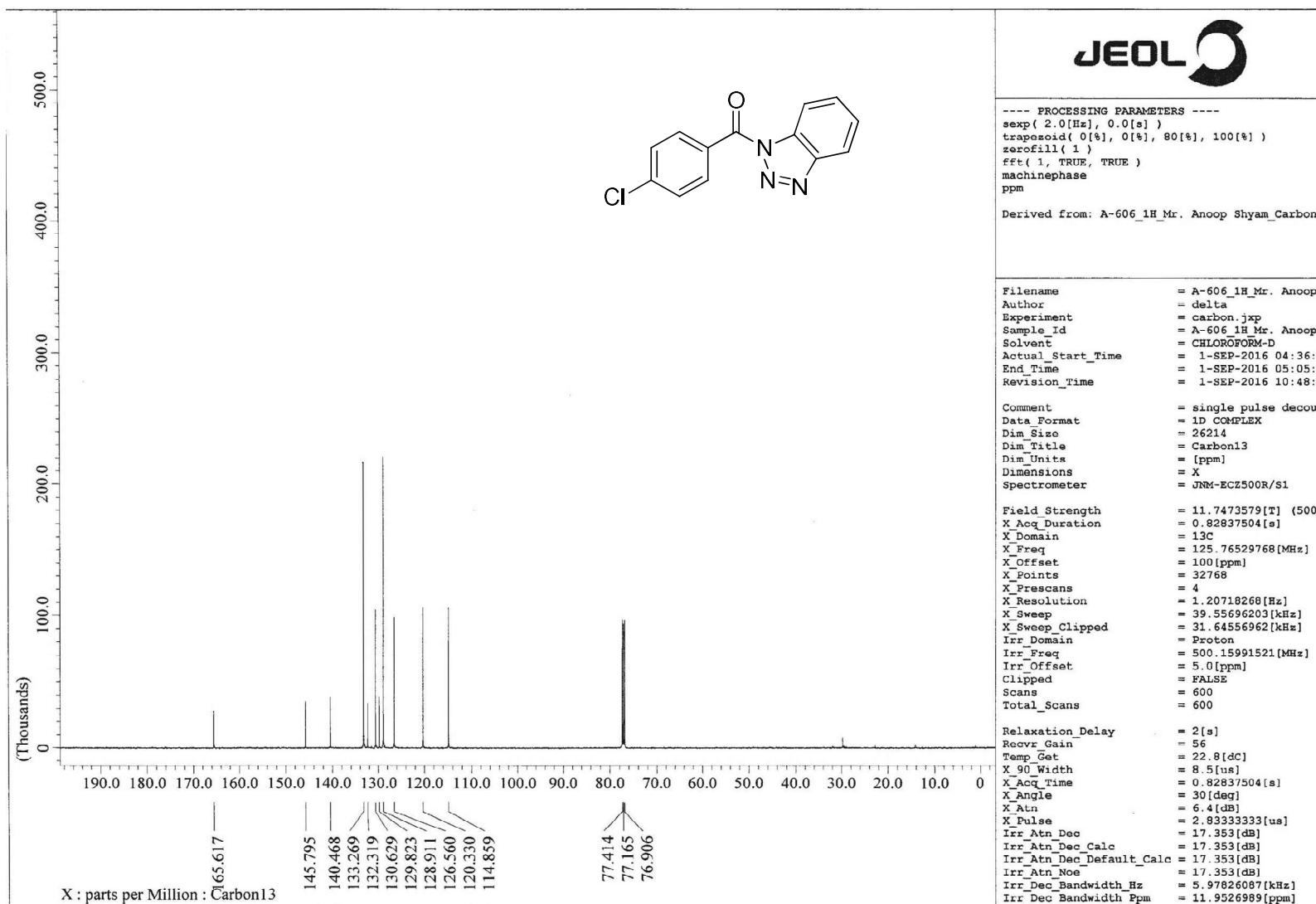
Spectrum 5: ^1H NMR (500 MHz, CDCl_3) of compound 2c

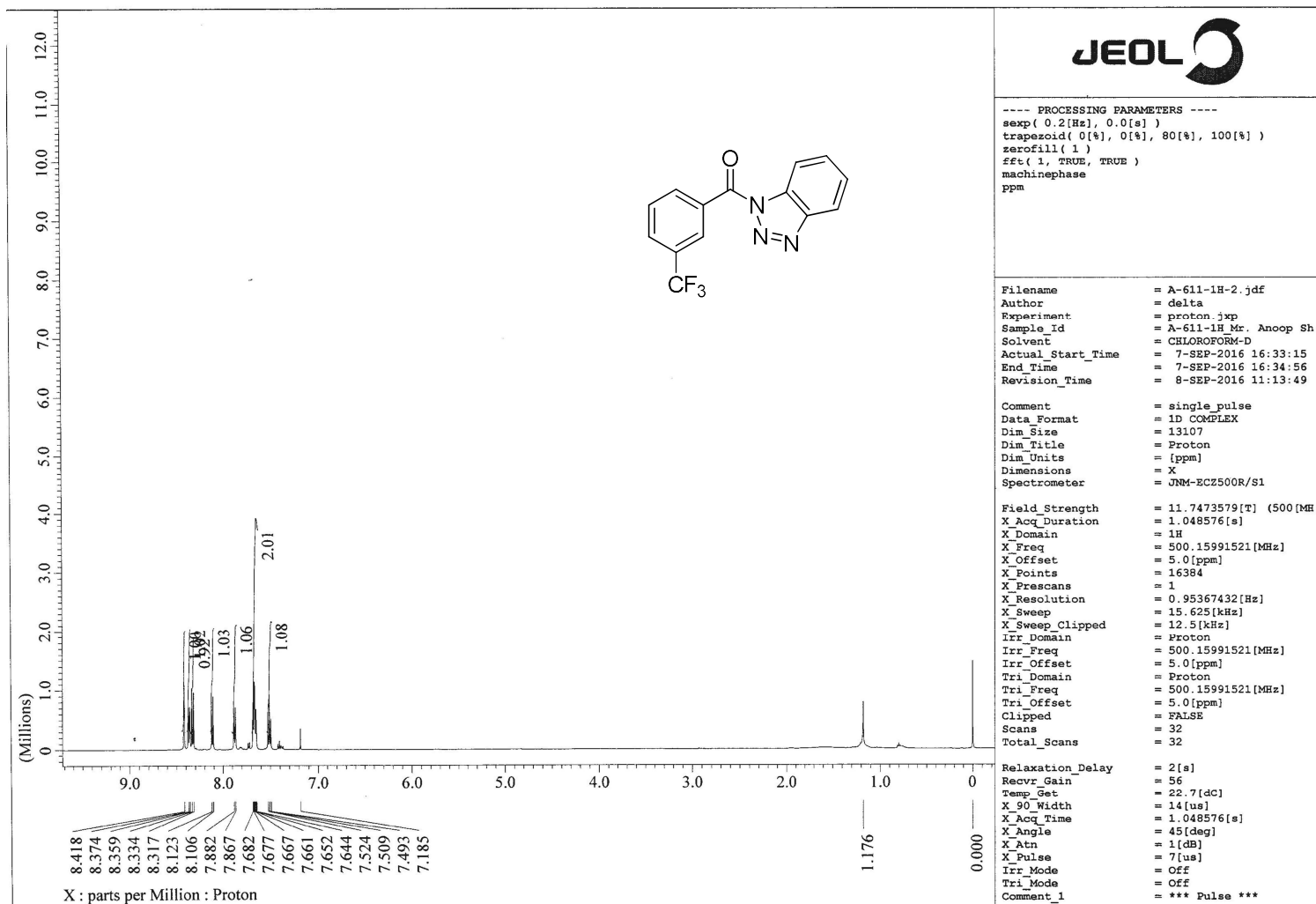
Spectrum 6: ^{13}C NMR (125 MHz, CDCl_3) of compound 2c

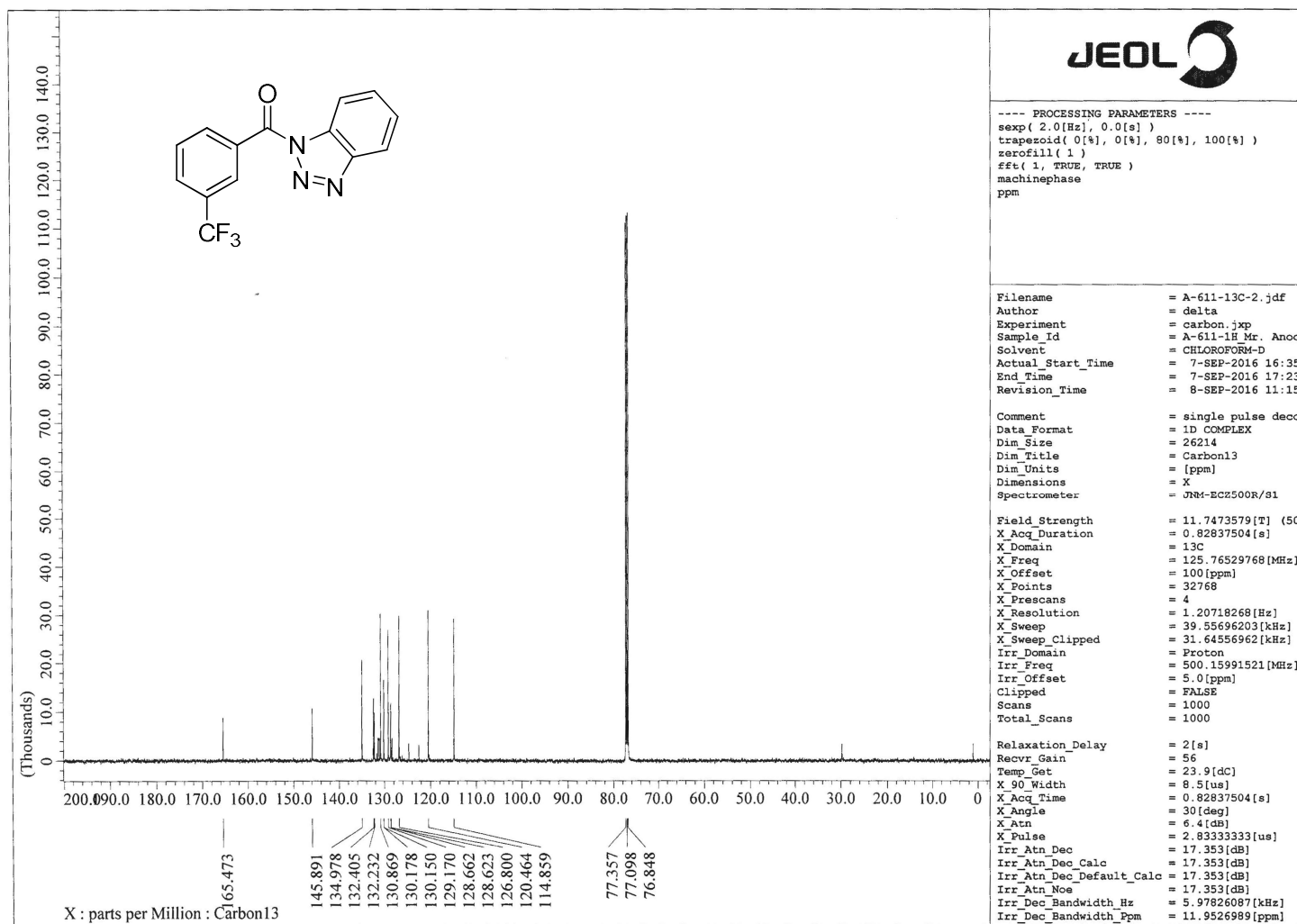
Spectrum 7: ¹H NMR (500 MHz, CDCl₃) of compound 2d

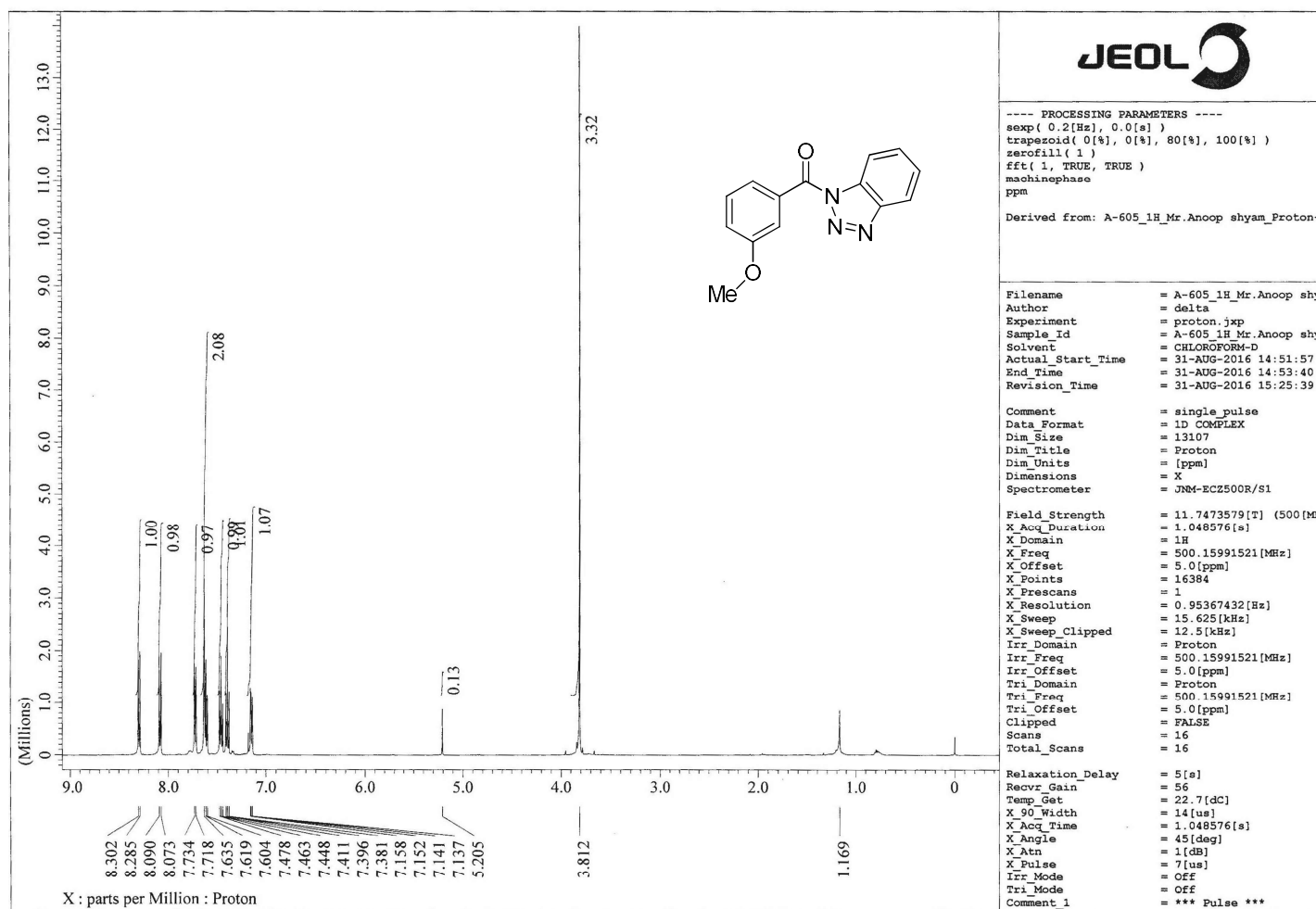
Spectrum 8: ^{13}C NMR (125 MHz, CDCl_3) of compound **2d**

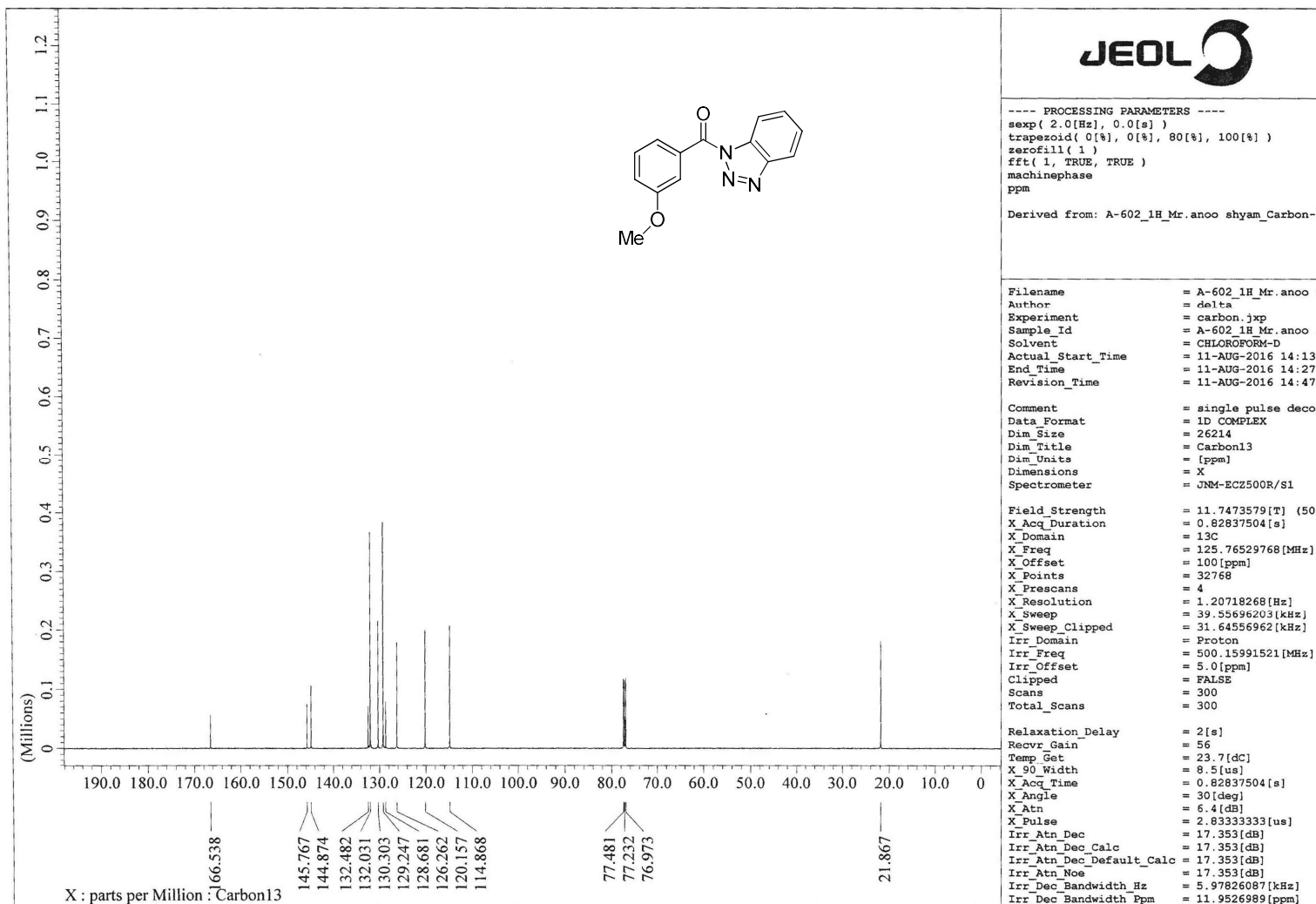
Spectrum 9: ¹H NMR (500 MHz, CDCl₃) of compound 2e

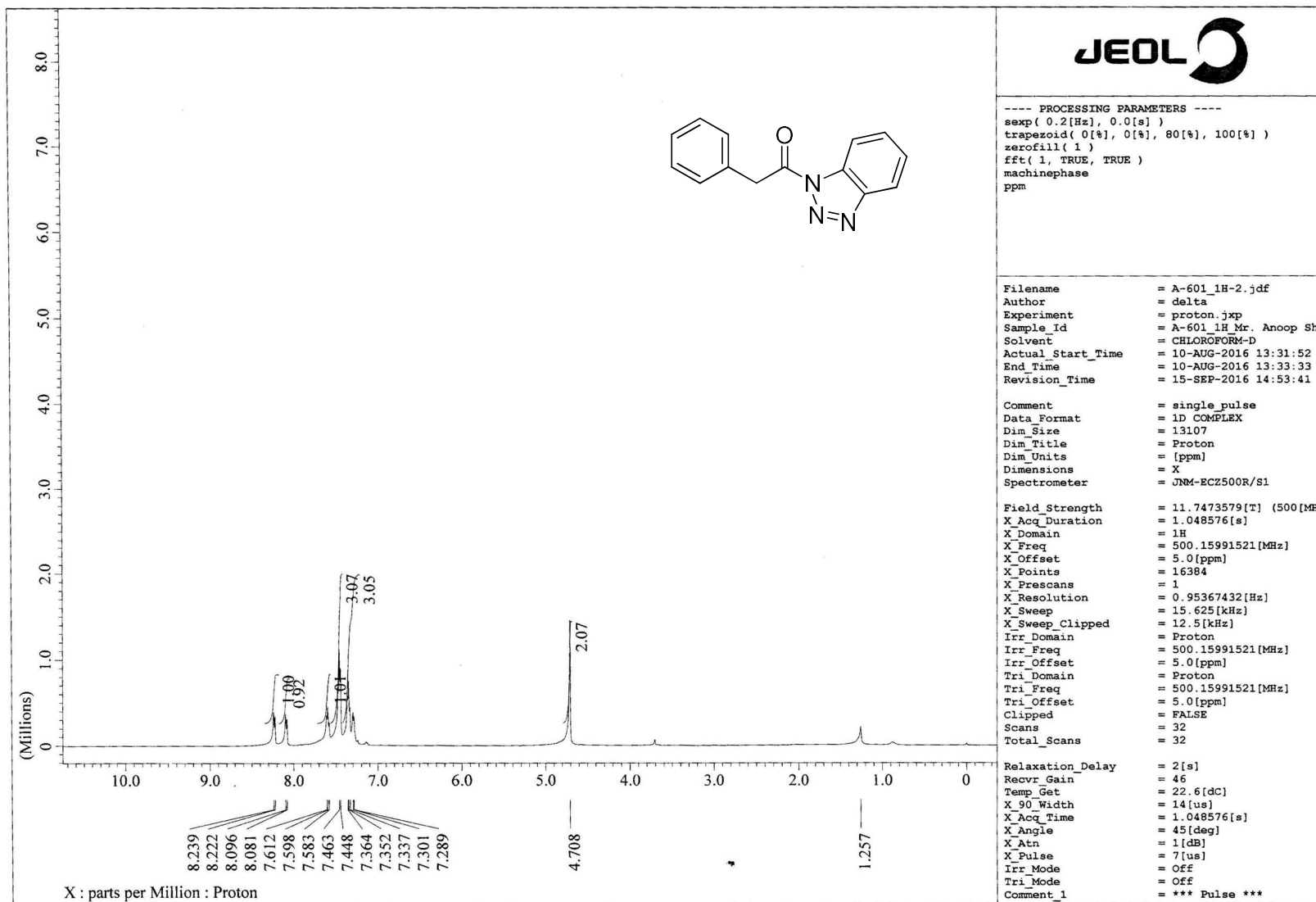
Spectrum 10: ^{13}C NMR (125 MHz, CDCl_3) of compound 2e

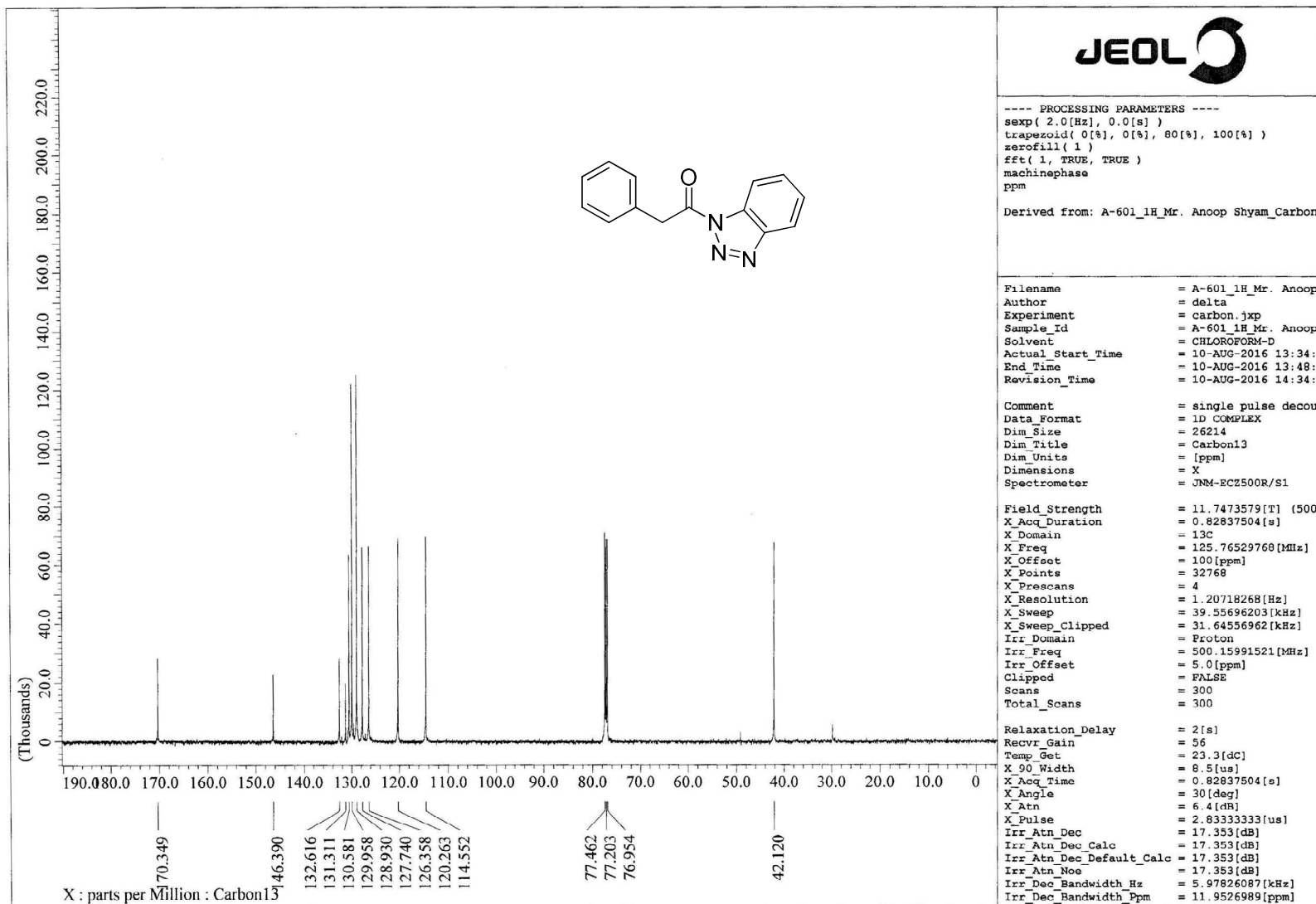
Spectrum 11: ¹H NMR (500 MHz, CDCl₃) of compound 2f

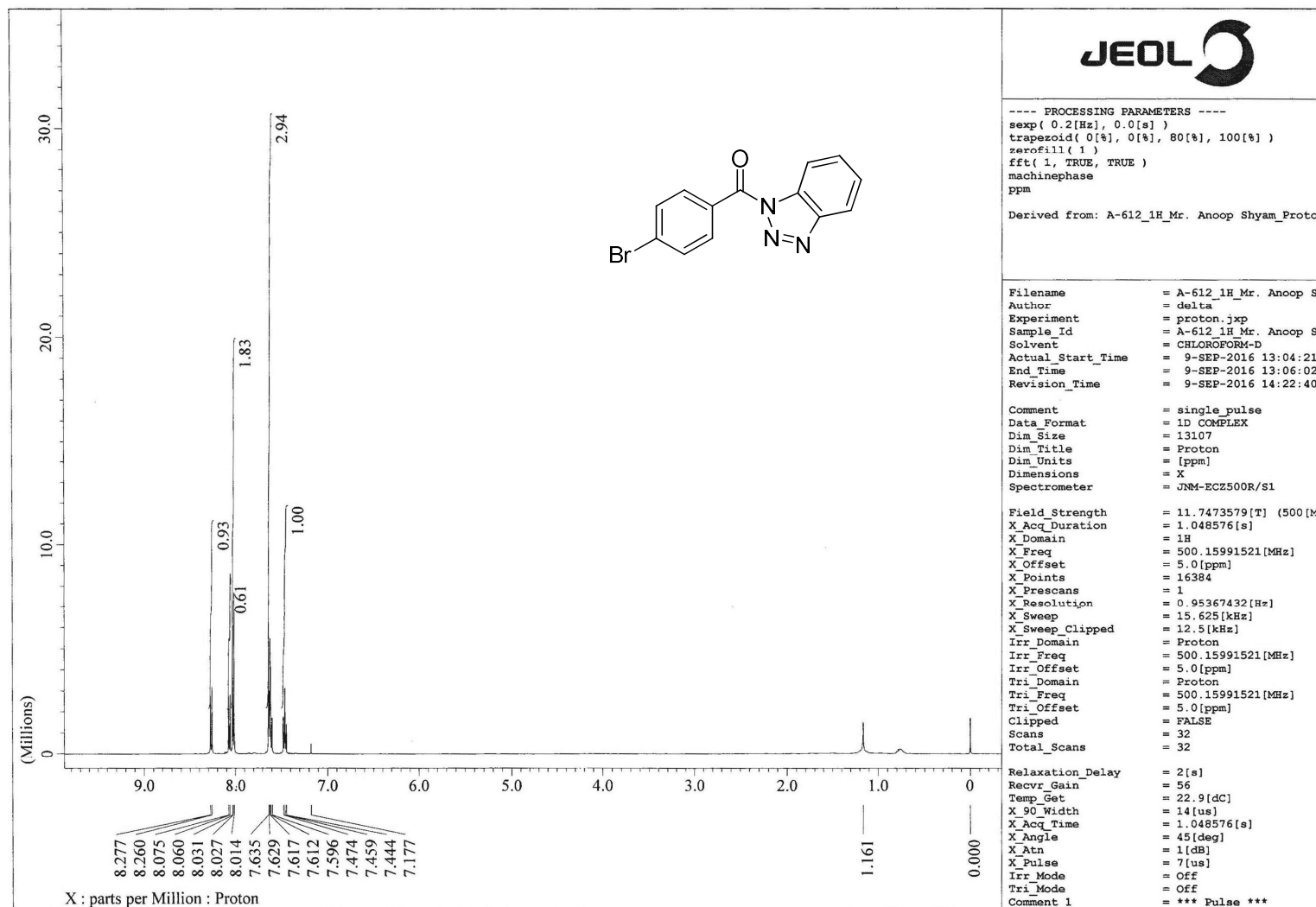
Spectrum 12: ^{13}C NMR (125 MHz, CDCl_3) of compound 2f

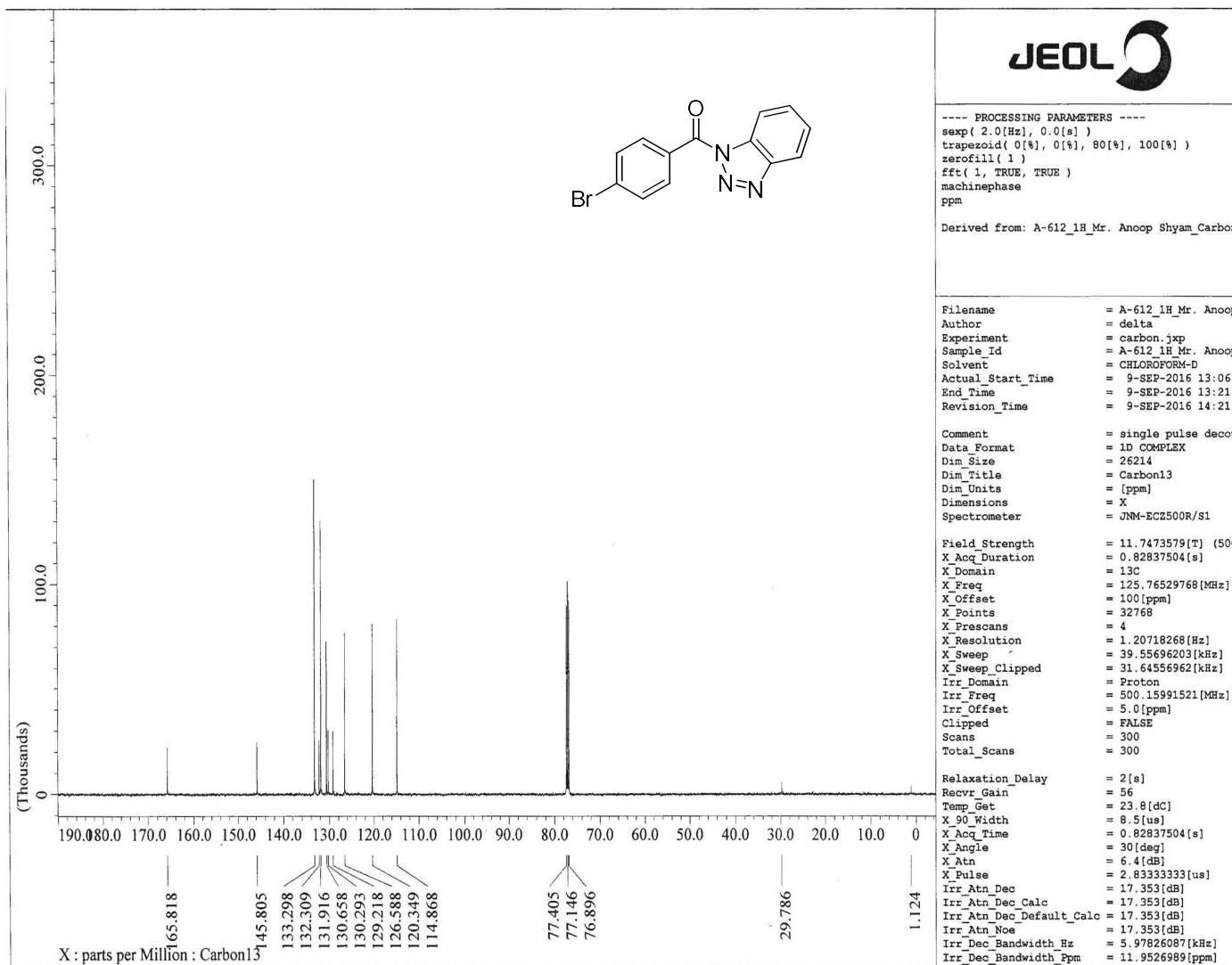
Spectrum 13: ^1H NMR (500 MHz, CDCl_3) of compound **2g**

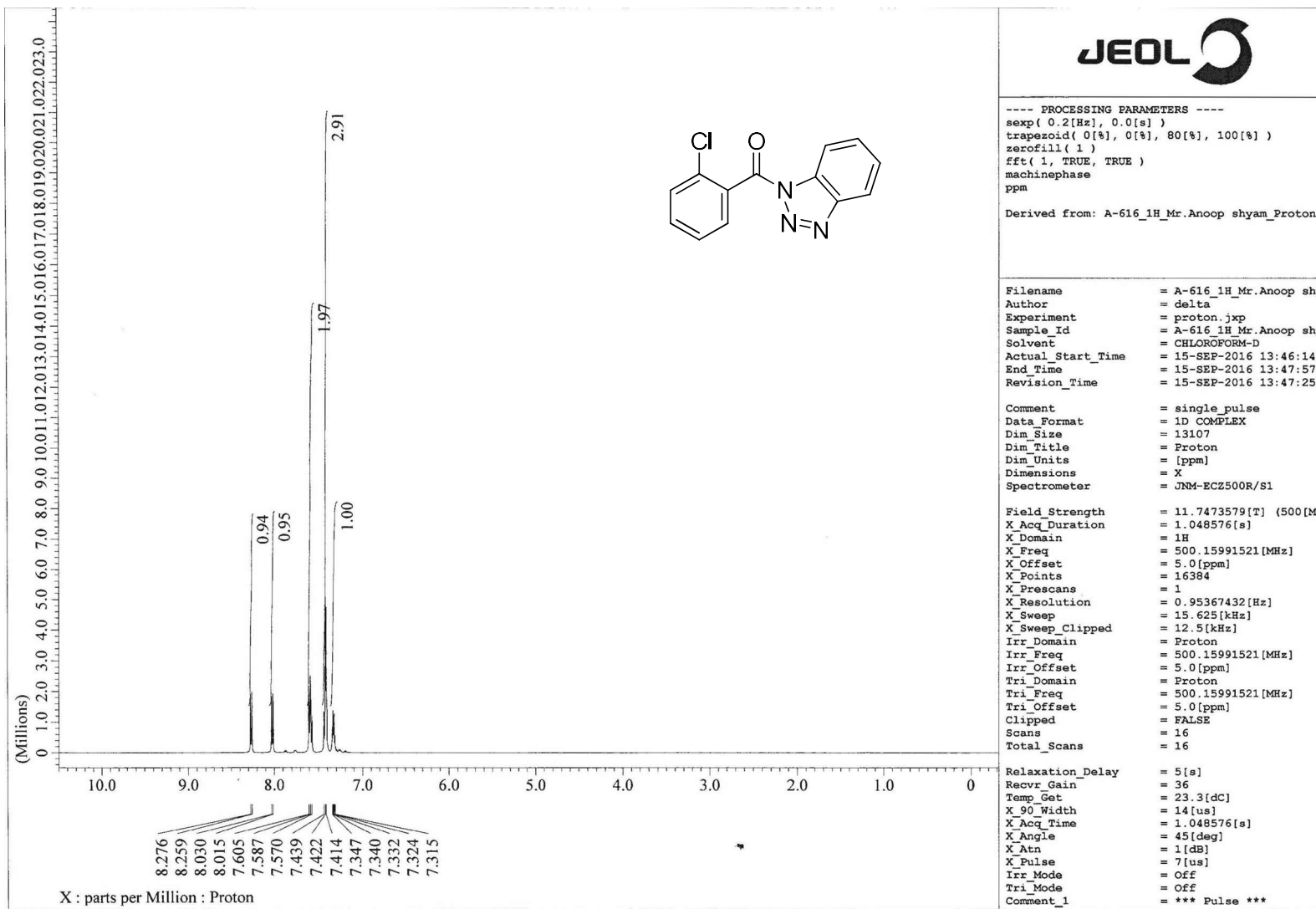
Spectrum 14: ^{13}C NMR (125 MHz, CDCl_3) of compound 2g

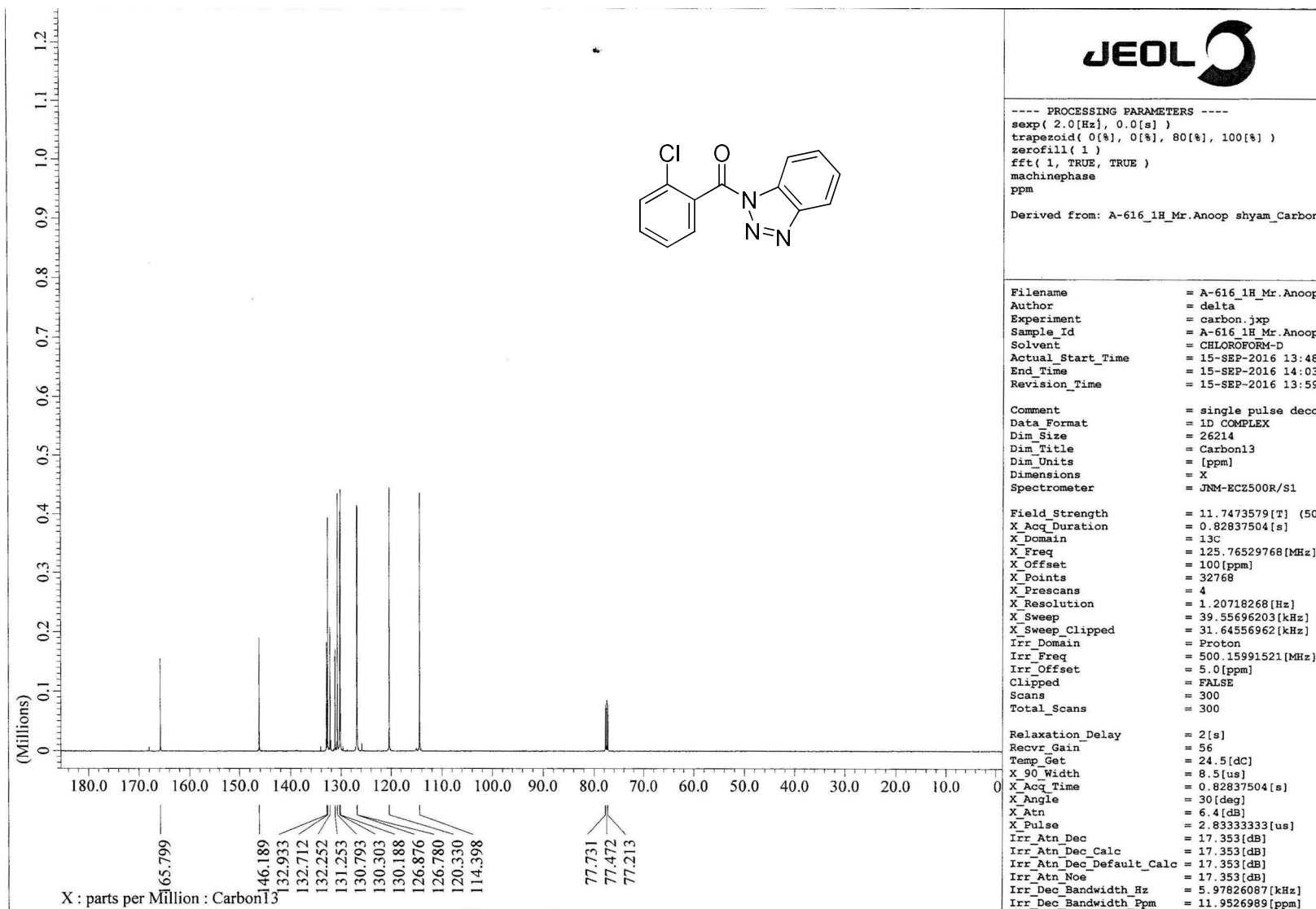
Spectrum 15: ^1H NMR (500 MHz, CDCl_3) of compound 2h

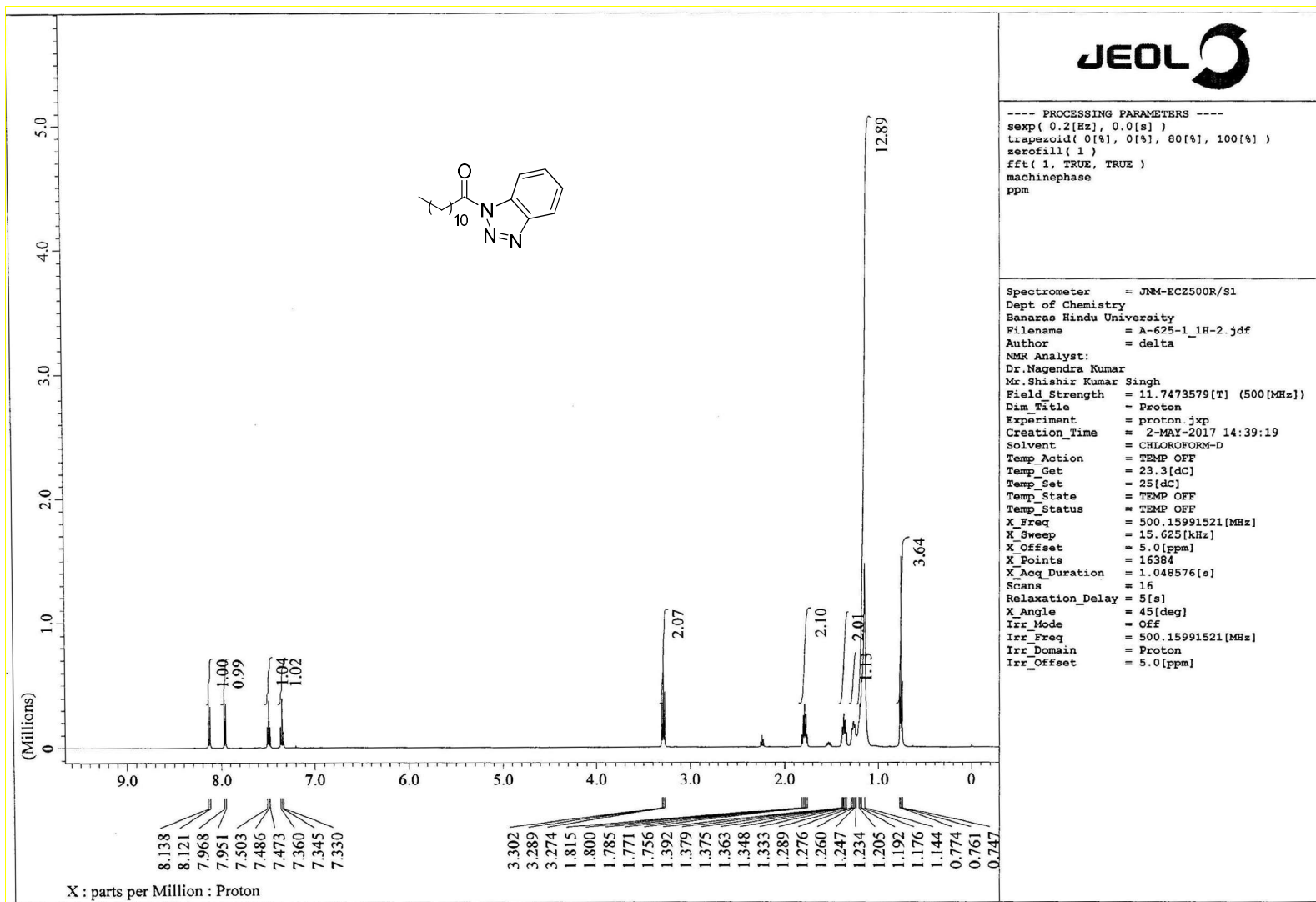
Spectrum 16: ¹³C NMR (125 MHz, CDCl₃) of compound 2h

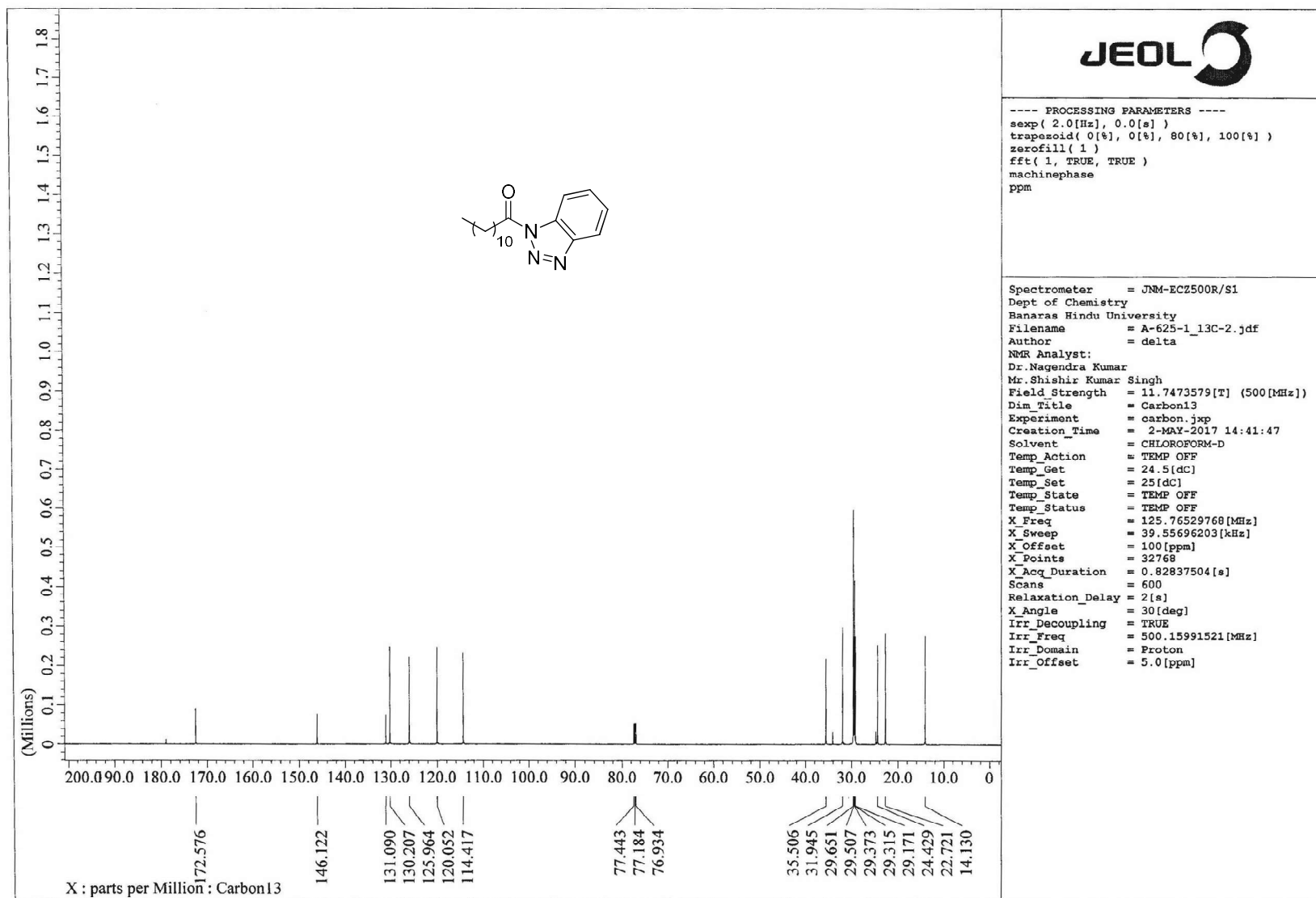
Spectrum 17: ^1H NMR (500 MHz, CDCl_3) of compound 2i

Spectrum 18: ^{13}C NMR (125 MHz, CDCl_3) of compound 2i

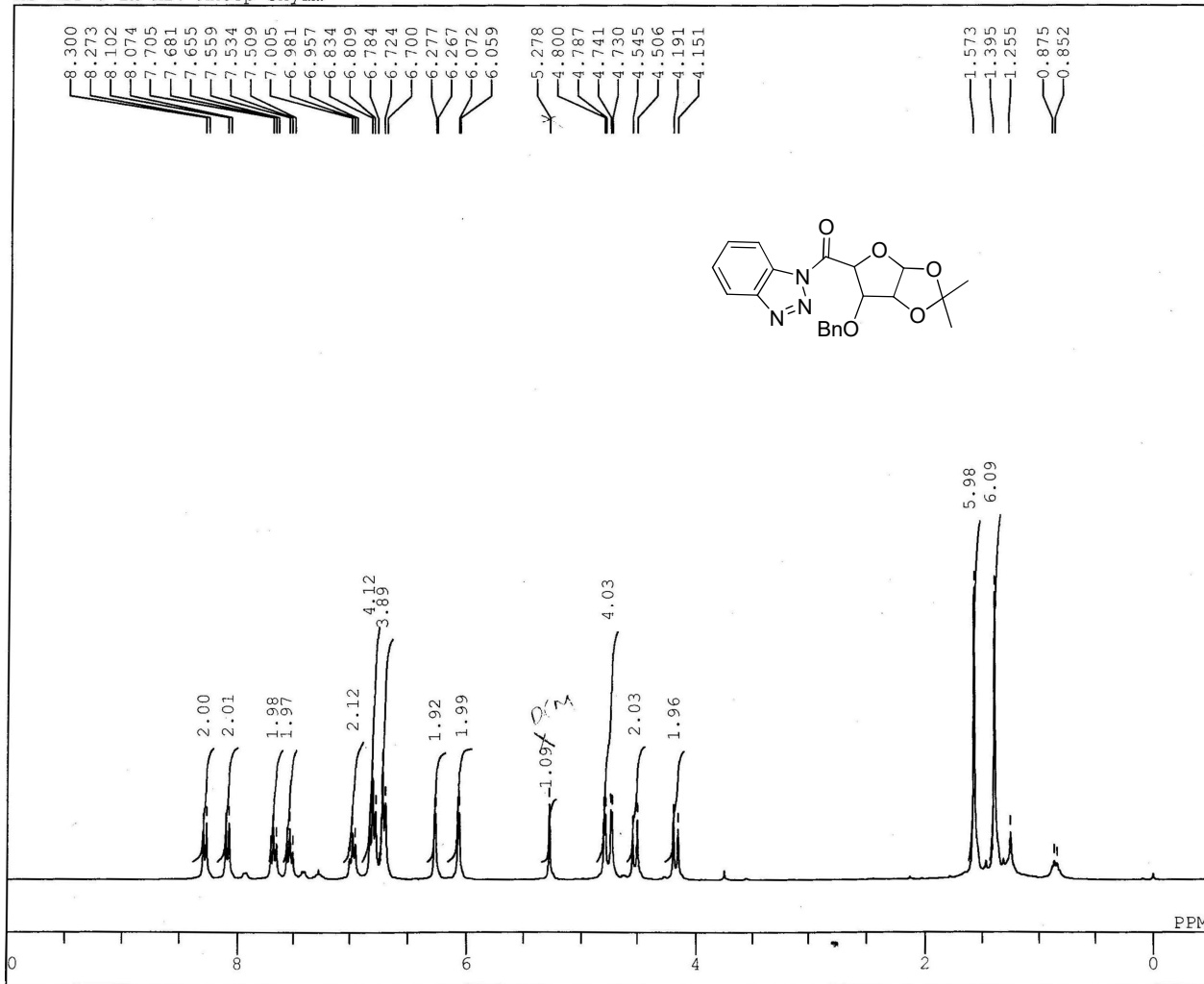
Spectrum 19: ¹H NMR (500 MHz, CDCl₃) of compound 2j

Spectrum 20: ^{13}C NMR (125 MHz, CDCl_3) of compound 2j

Spectrum 21: ^1H NMR (500 MHz, CDCl_3) of compound 2k

Spectrum 22: ^{13}C NMR (125 MHz, CDCl_3) of compound 2k

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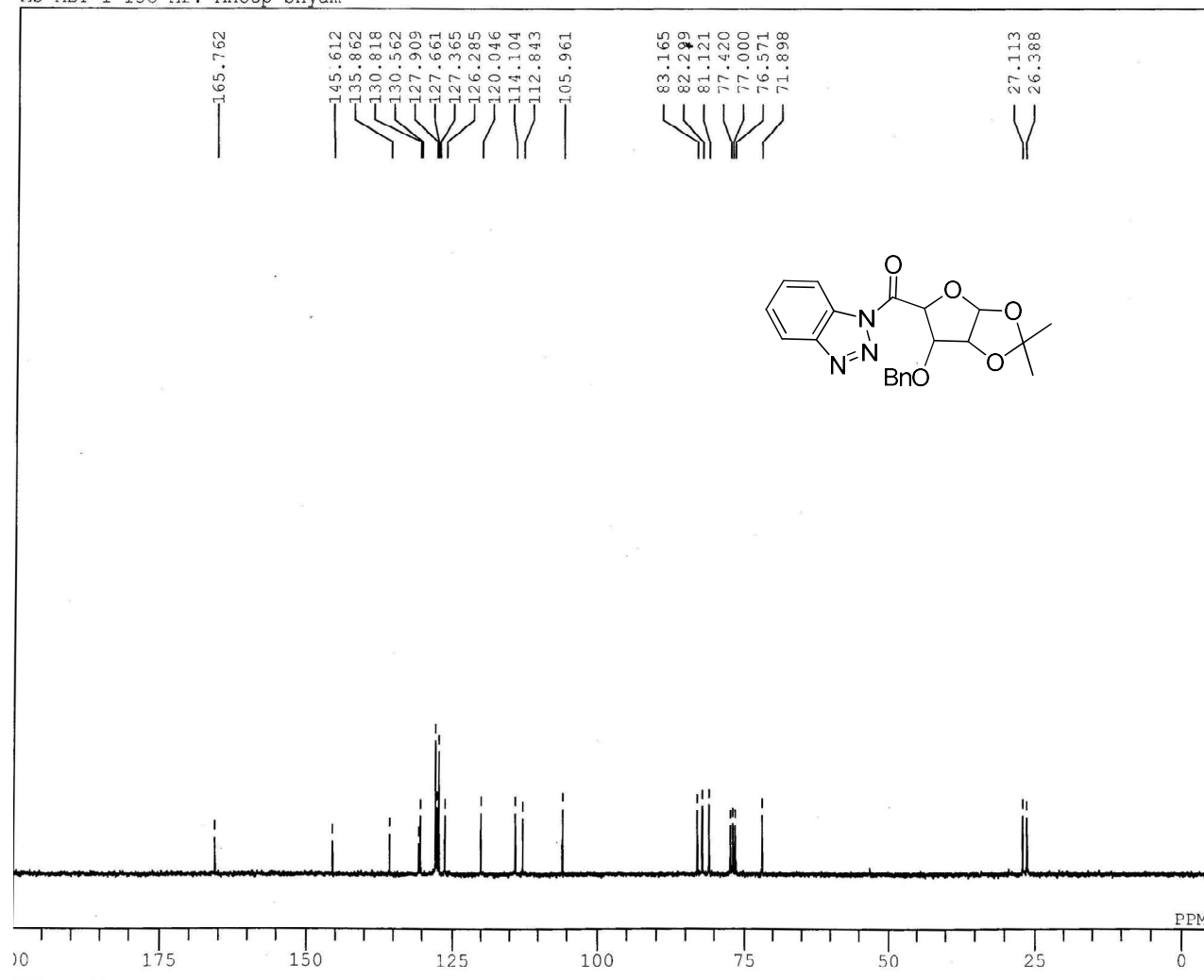
JEOL AL300 FTNMR
CHEMISTRY DEPARTMENT
Banaras Hindu University,
VARANASI-221005

Operator : Nagendra Kumar
Shishir Singh

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Spectrum 23: ¹H NMR (300 MHz, CDCl₃) of compound 21

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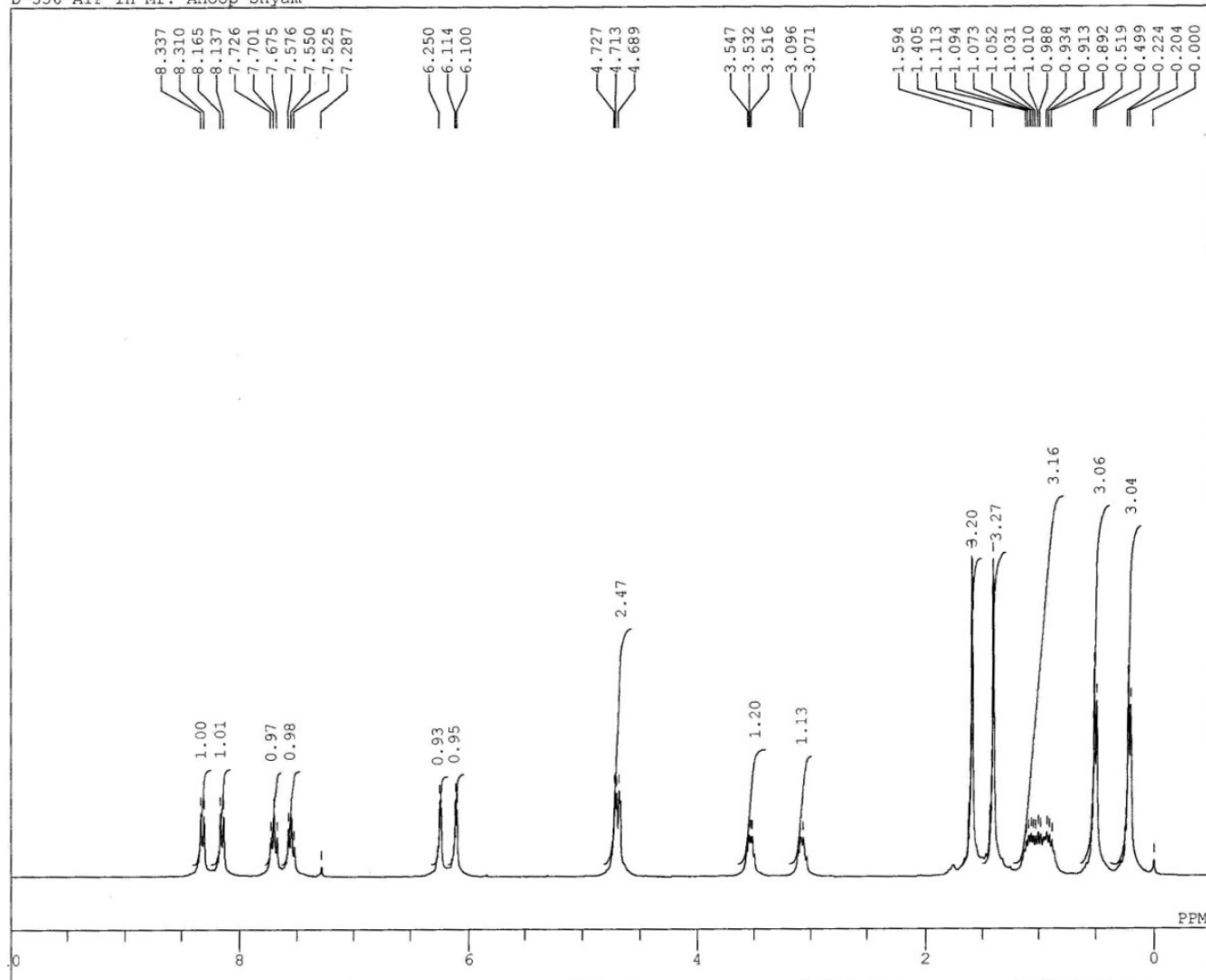
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CHEMISTRY DEPARTMENT
Banaras Hindu University,
VARANASI-221005

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Shishir Singh

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Spectrum 24: ¹³C NMR (75 MHz, CDCl₃) of compound 2I

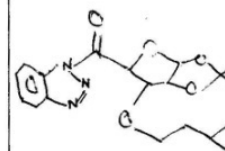
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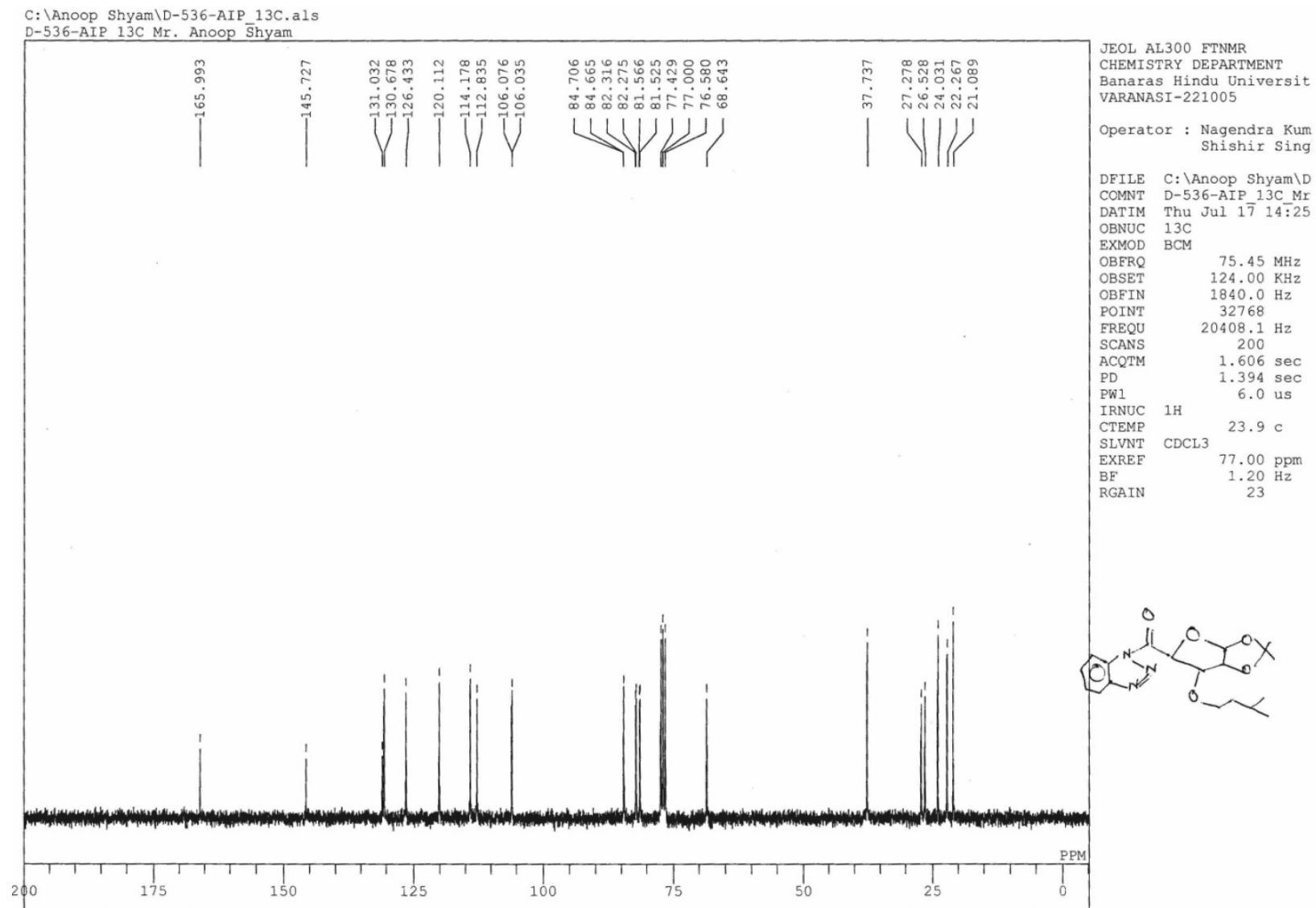
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CHEMISTRY DEPARTMENT
Banaras Hindu Universit
VARANASI-221005

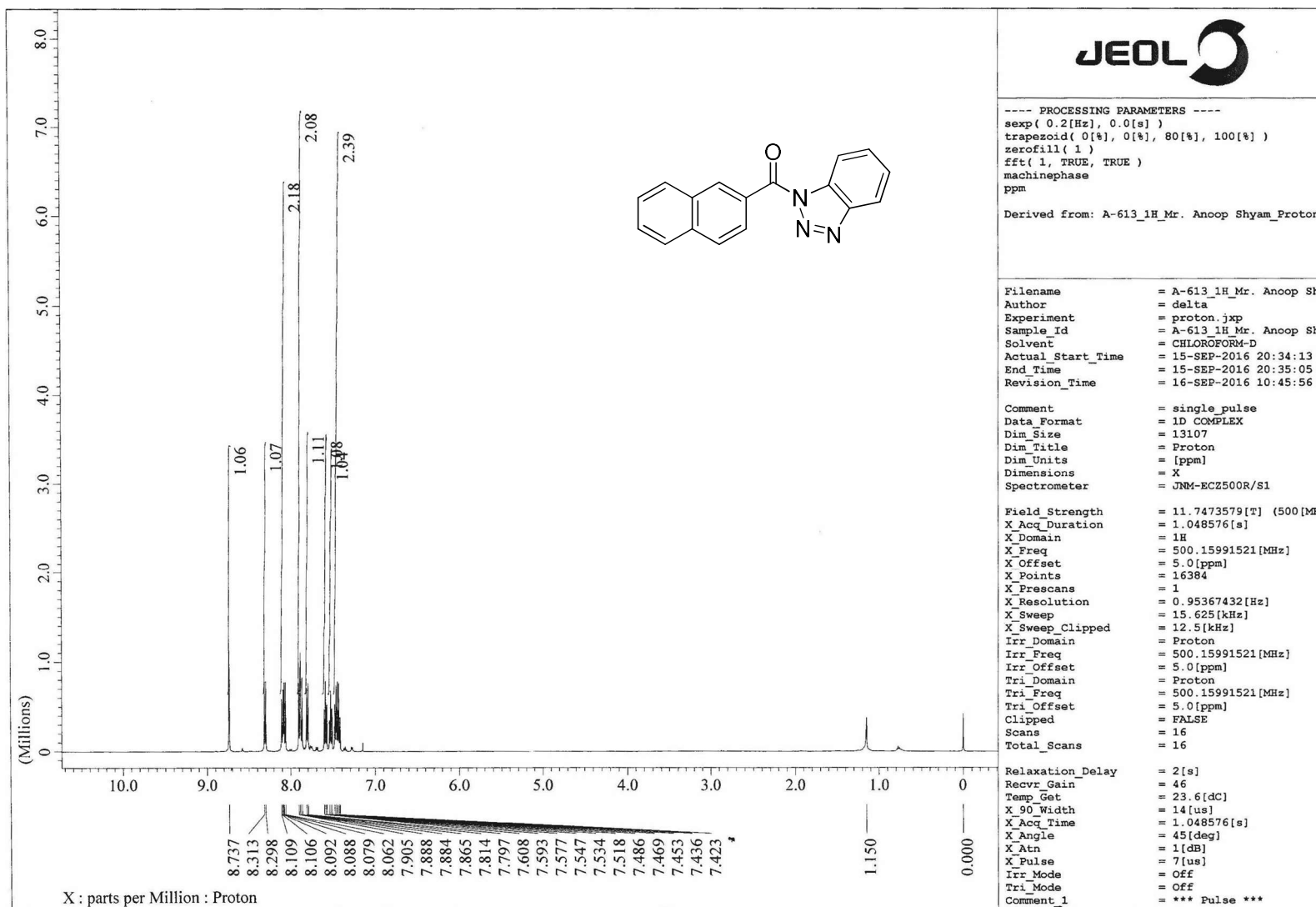
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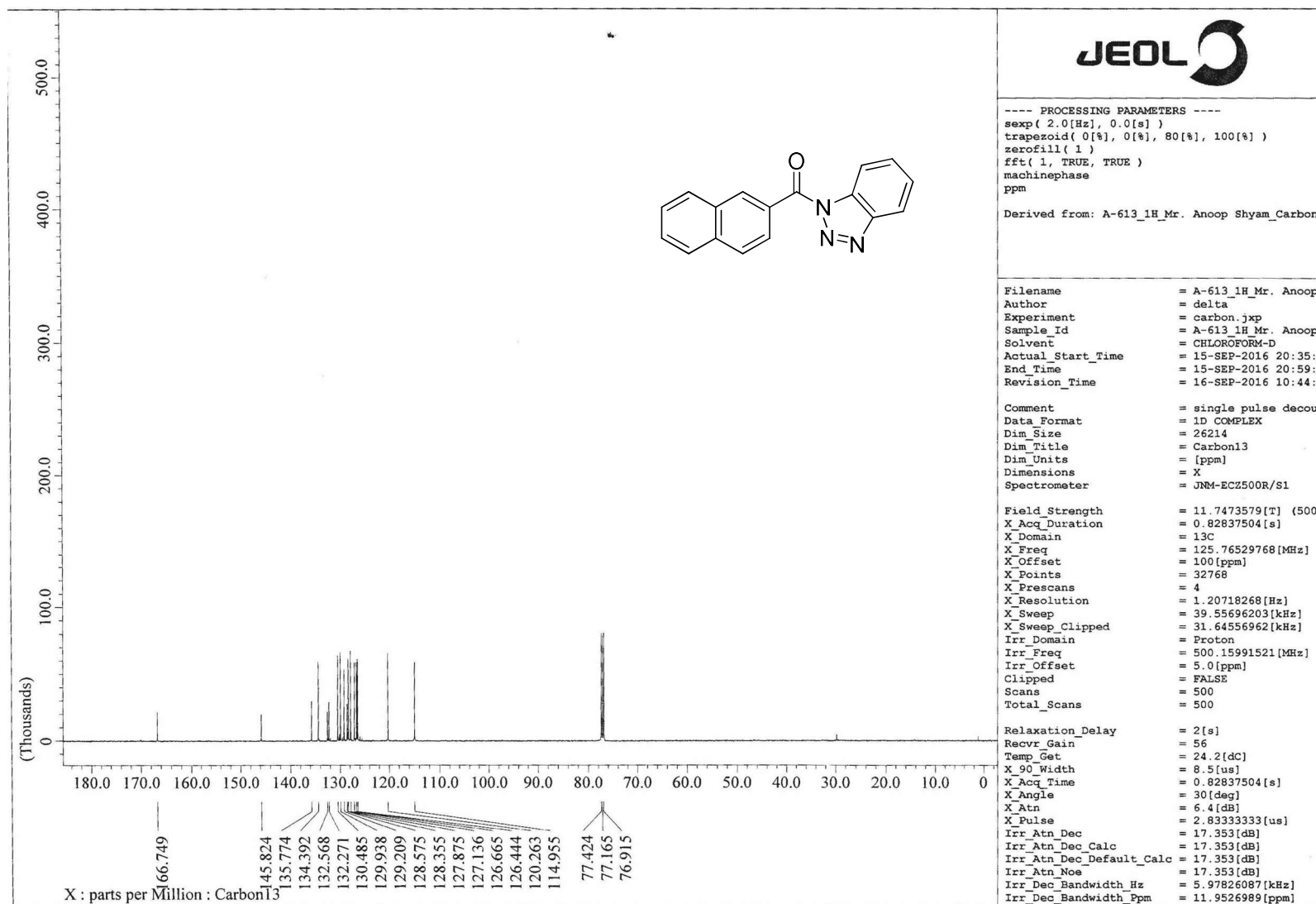
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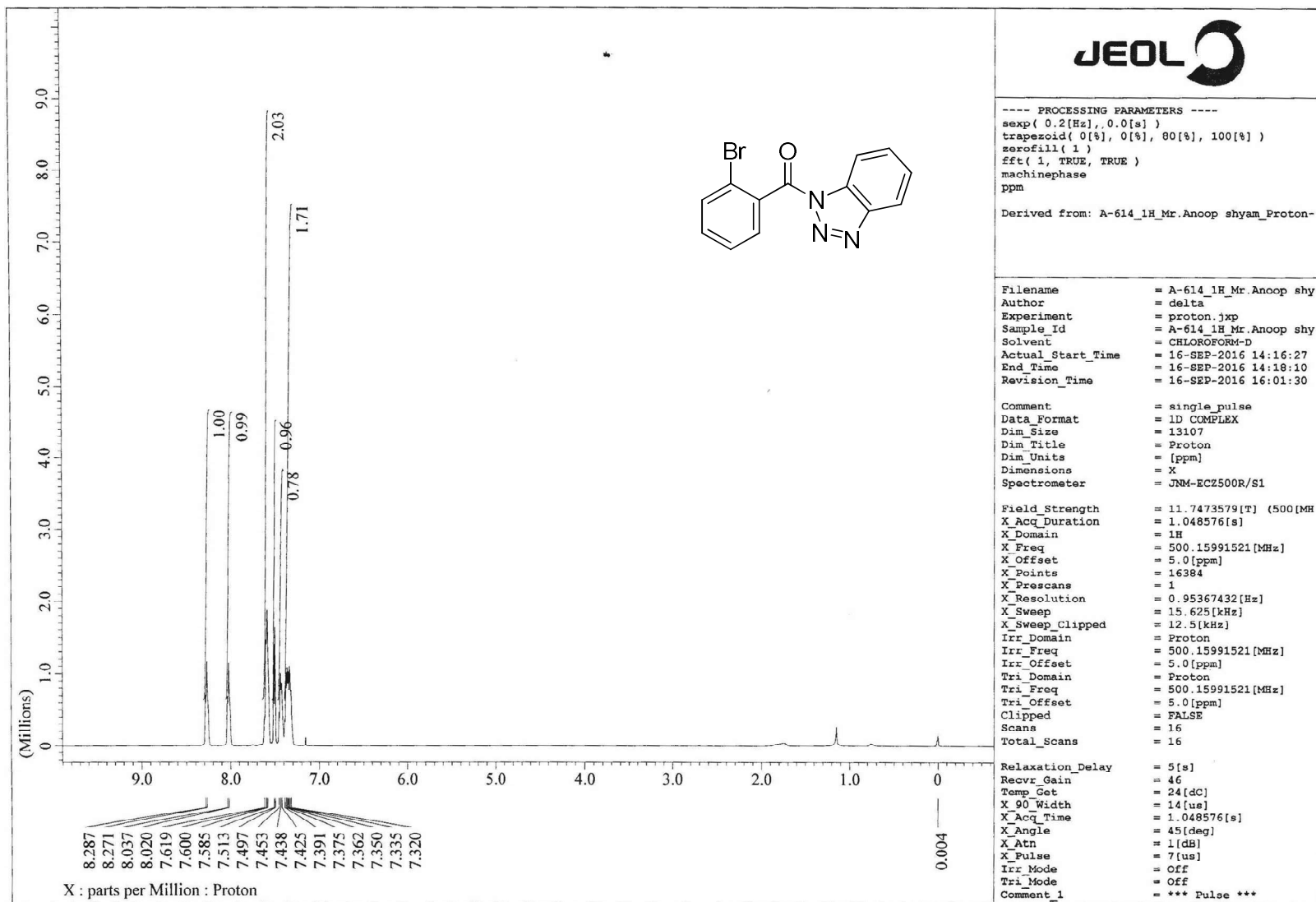


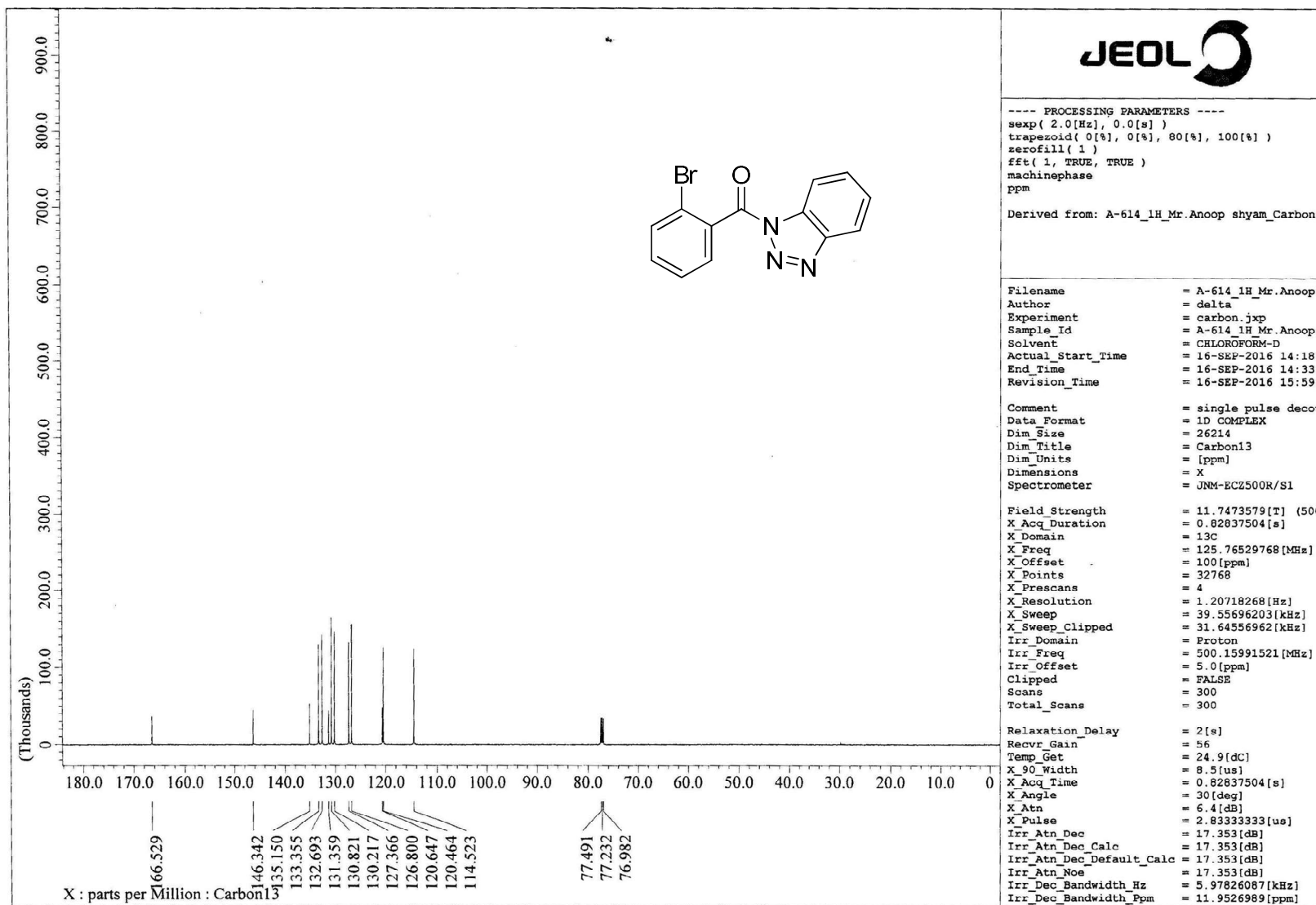
Spectrum 25: ¹H NMR (500 MHz, CDCl₃) of compound 2m

Spectrum 26: ^{13}C NMR (125 MHz, CDCl_3) of compound **2m**

Spectrum 27: ^1H NMR (500 MHz, CDCl_3) of compound 2n

Spectrum 28: ^{13}C NMR (125 MHz, CDCl_3) of compound 2n

Spectrum 29: ¹H NMR (500 MHz, CDCl₃) of compound 2o

Spectrum 30: ^{13}C NMR (125 MHz, CDCl_3) of compound 2o