

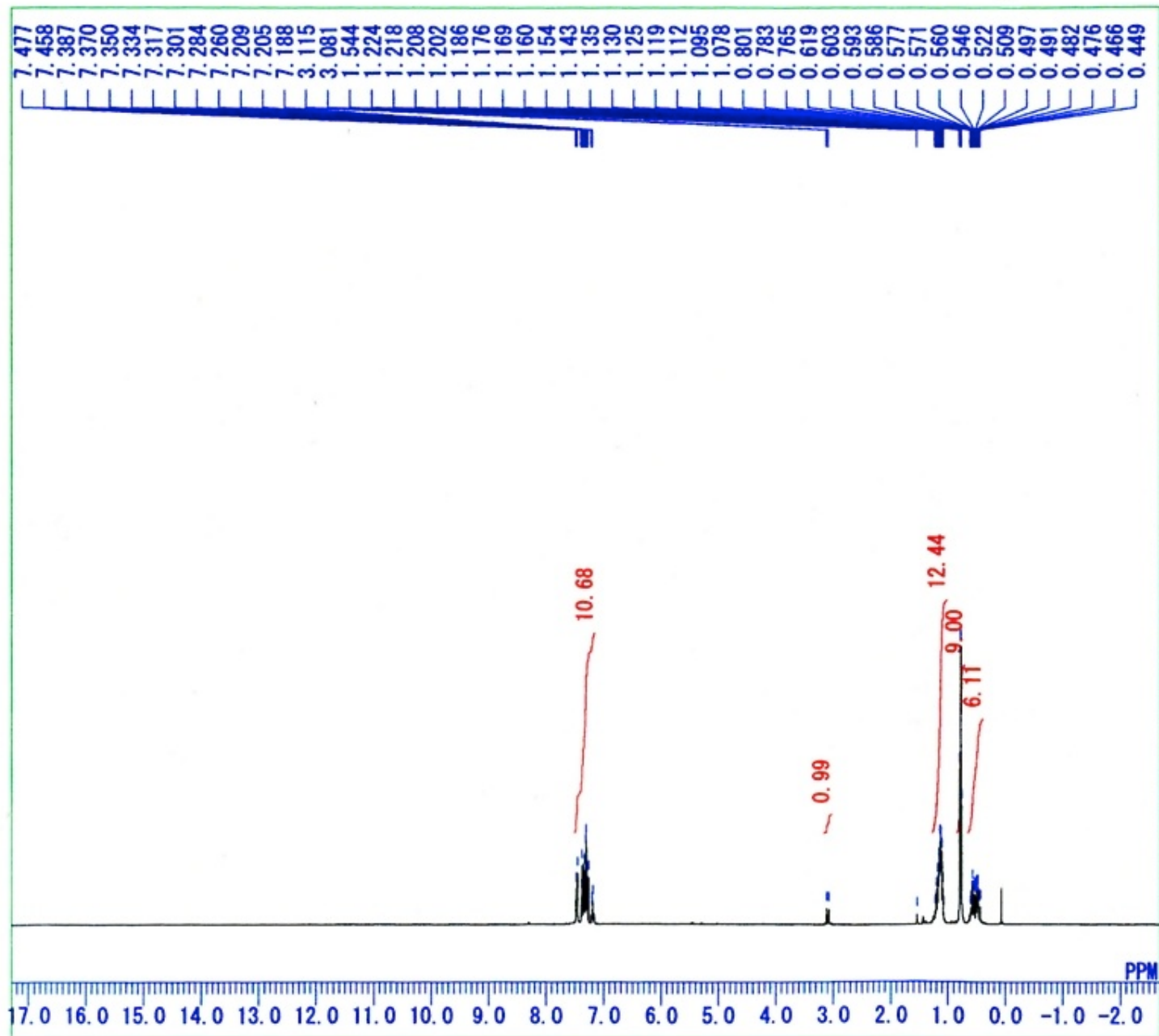
Electronic Supplementary Information (2)

**A Efficient Approach to *gem*-Difluorocyclopropylstannanes *via*
Highly Regio- and Stereoselective Hydrostannation of
gem-Difluorocyclopropenes
and their Unusual Ring-Opening Reaction
to Afford β -Fluoroallylic Alcohols**

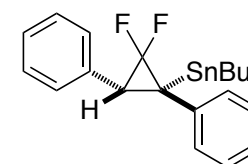
Takashi Nihei, Tomoko Hoshino and Tsutomu Konno*

Department of Chemistry and Materials Technology, Kyoto Institute of Technology, Matsugasaki, Sakyo-ku, Kyoto 606-8585, Japan

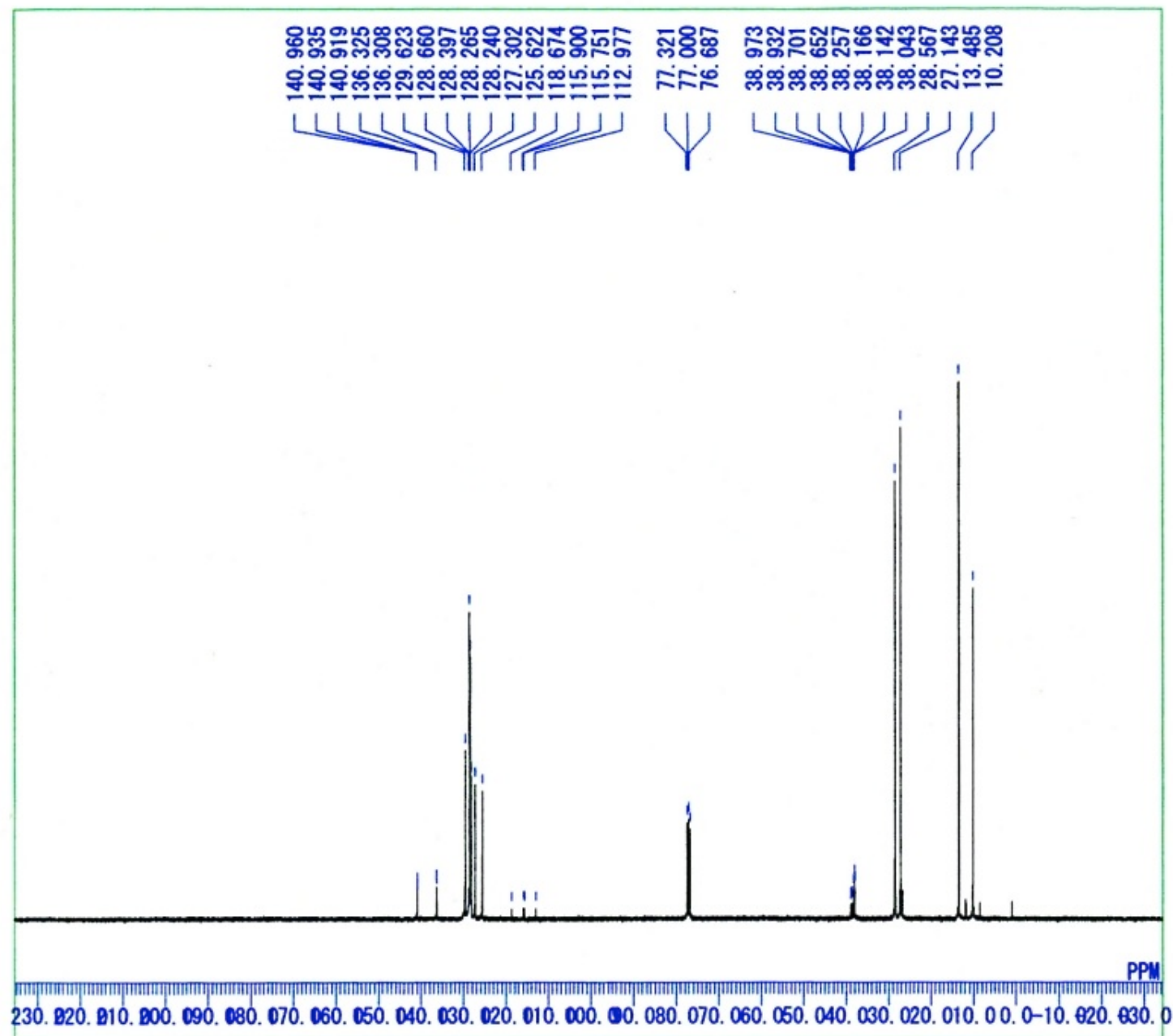
E-mail: konno@kit.ac.jp, Fax: +81 75-724-7580



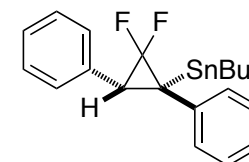
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 COMNT auto
 DATIM Wed Jan 09 11:34:59 2013
 OBNUC 1H
 EXMOD NON
 OBFRQ 399.65 MHz
 OBSET 135.40 KHz
 OBFIN 24.90 Hz
 POINT 16384
 FREQU 7992.01 Hz
 SCANS 8
 ACQTM 2.0501 sec
 PD 4.9500 sec
 PW1 5.50 usec
 IRNUC 1H
 CTEMP 22.6 c
 SLVNT CDCL3
 EXREF 7.26 ppm
 BF 0.10 Hz
 RGAIN 14



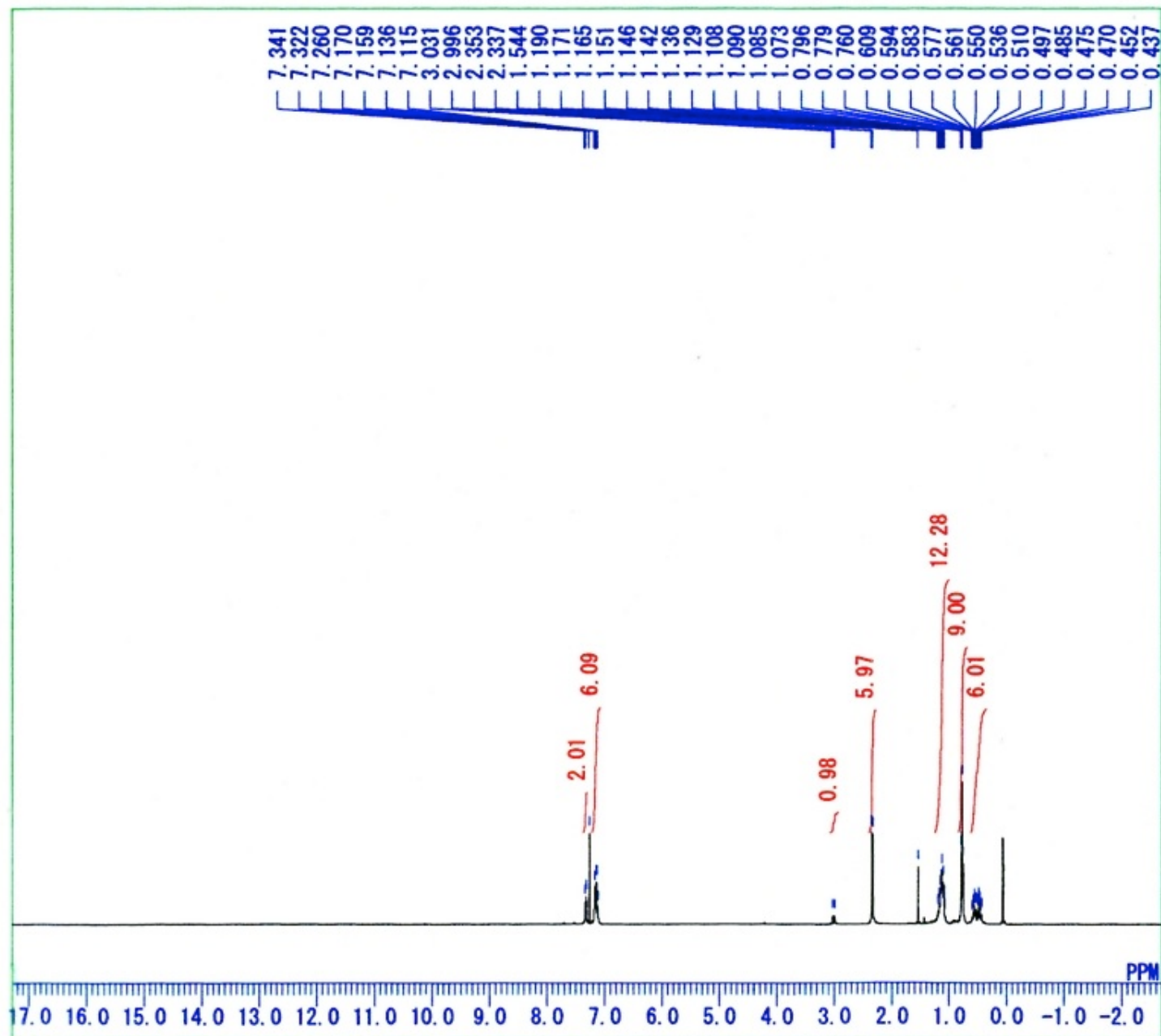
2a-trans



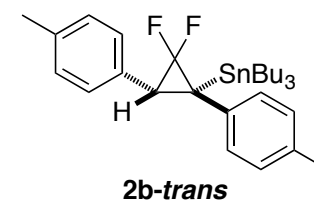
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COMNT auto
DATIM Wed Jan 09 13:07:45 2013
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EXMOD BCM
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OBSET 125.00 KHz
OBFIN 10500.00 Hz
POINT 32768
FREQU 27118.64 Hz
SCANS 1256
ACQTM 1.2083 sec
PD 1.7920 sec
PW1 6.20 usec
IRNUC 1H
CTEMP 22.3 c
SLVNT CDCL3
EXREF 77.00 ppm
BF 0.10 Hz
RGAIN 25

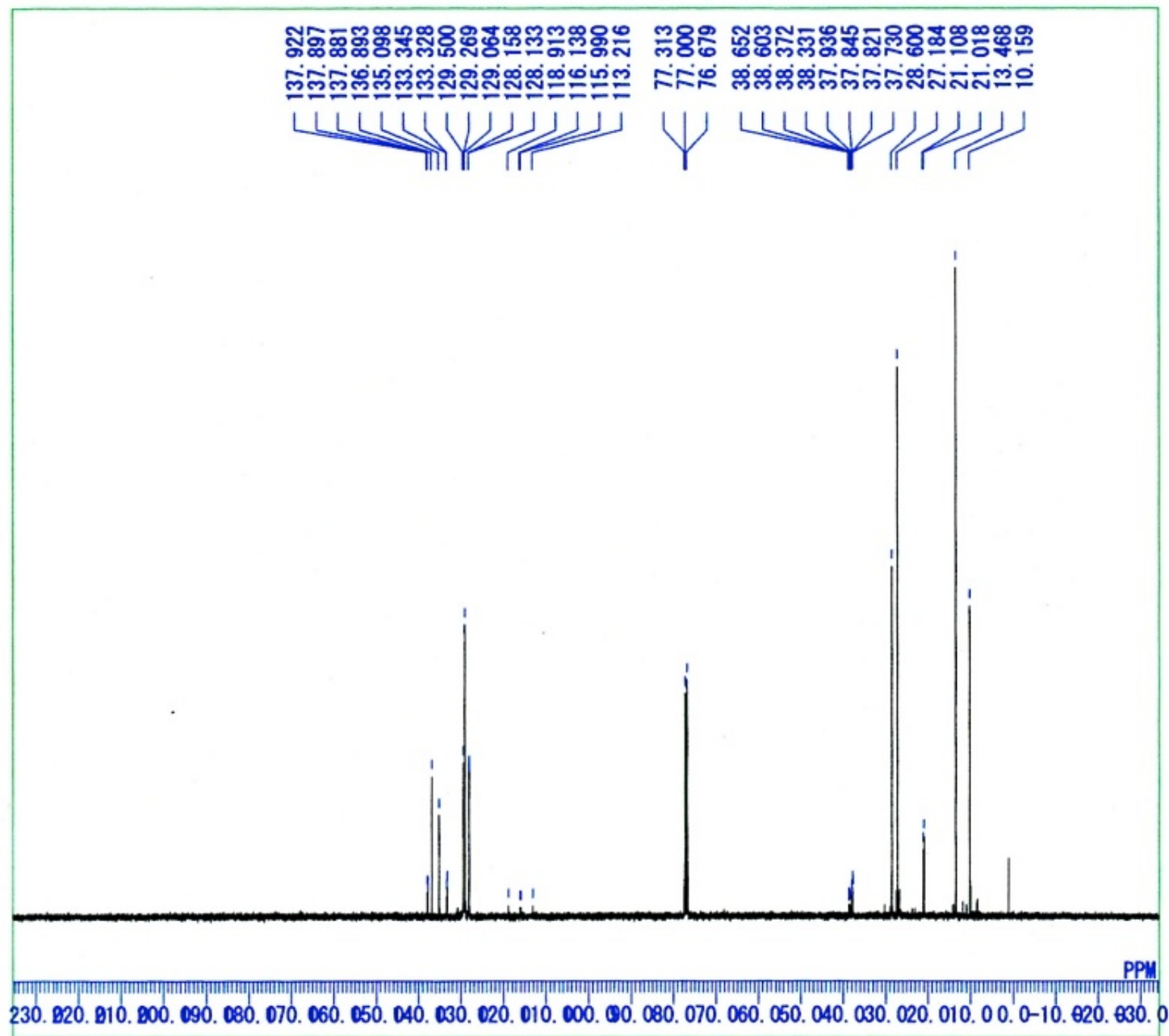


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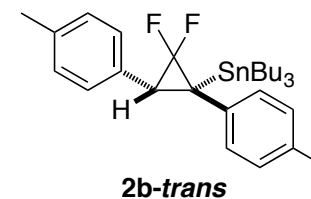


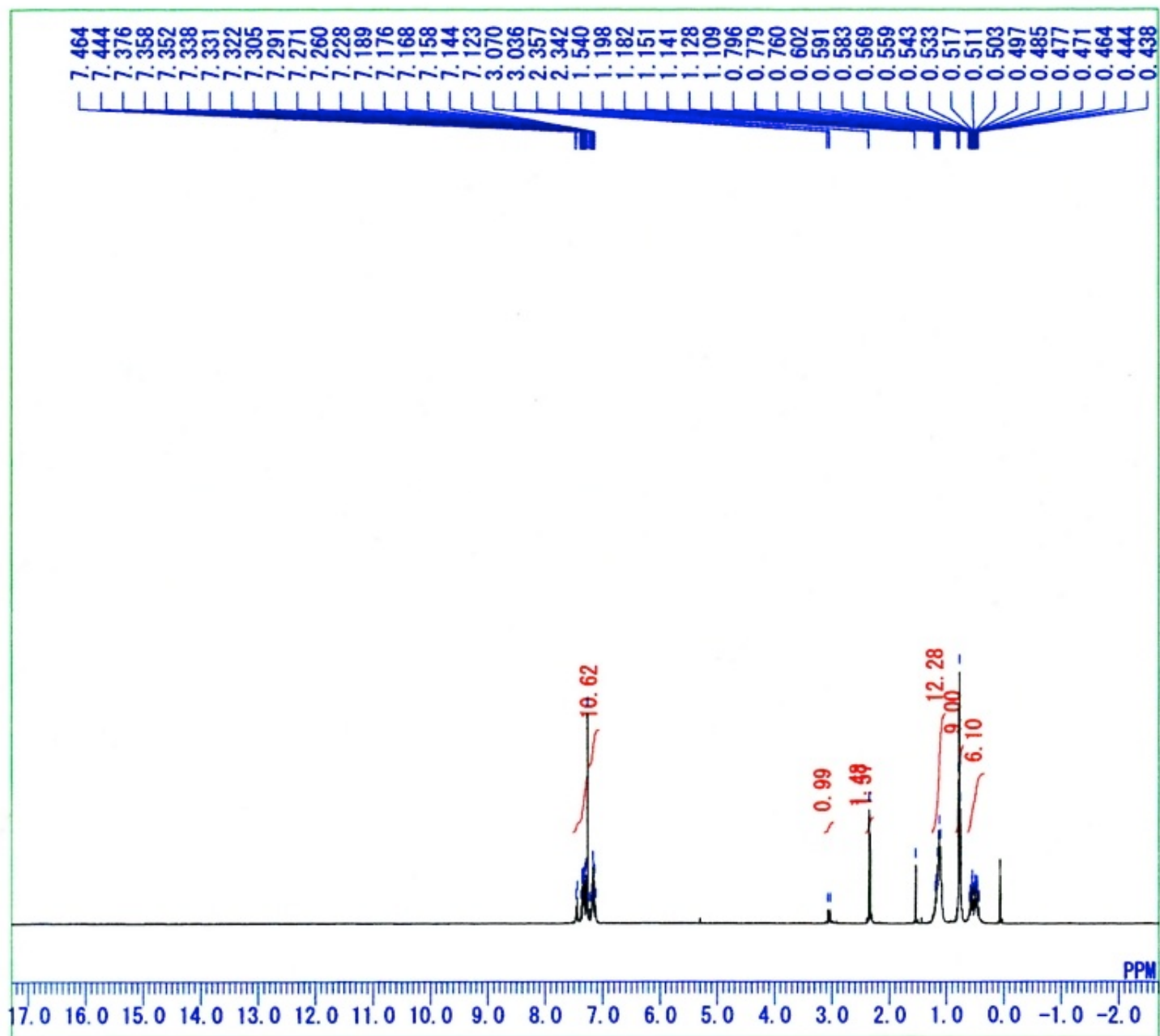
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 COMNT auto
 DATIM Wed Feb 20 21:28:57 2013
 OBNUC 1H
 EXMOD NON
 OBFRQ 399.65 MHz
 OBSET 135.40 KHz
 OBFIN 24.90 Hz
 POINT 16384
 FREQU 7992.01 Hz
 SCANS 8
 ACQTM 2.0501 sec
 PD 4.9500 sec
 PW1 5.50 usec
 IRNUC 1H
 CTEMP 21.7 c
 SLVNT CDCL3
 EXREF 7.26 ppm
 BF 0.10 Hz
 RGAIN 17



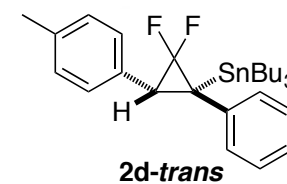


DFILE TolyI-TolyI 13C.als
COMNT auto
DATIM Wed Feb 20 22:24:36 2013
OBNUC 13C
EXMOD BCM
OBFRQ 100.40 MHz
OBSET 125.00 KHz
OBFIN 10500.00 Hz
POINT 32768
FREQU 27118.64 Hz
SCANS 896
AQTM 1.2083 sec
PD 1.7920 sec
PW1 6.20 usec
IRNUC 1H
CTEMP 22.3 c
SLVNT CDCL3
EXREF 77.00 ppm
BF 0.10 Hz
RGAIN 26

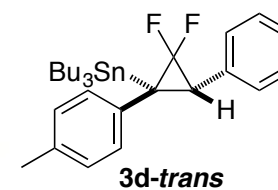


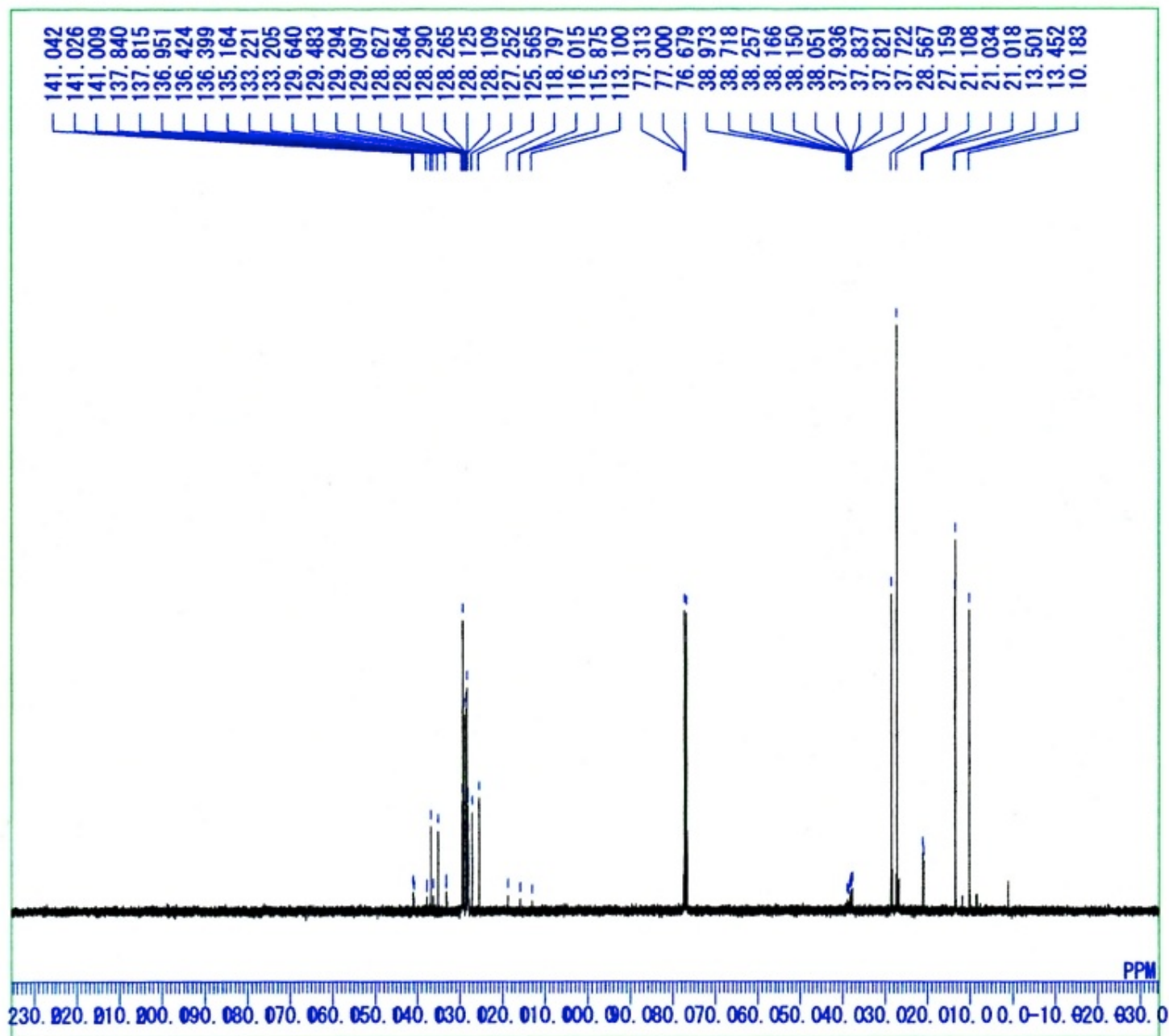


DFILE Ph-Tolyl 1H.als
 COMNT auto
 DATIM Sun Feb 17 20:03:01 2013
 OBNUC 1H
 EXMOD NON
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 OBSET 135.40 KHz
 OBFIN 24.90 Hz
 POINT 16384
 FREQU 7992.01 Hz
 SCANS 8
 ACQTM 2.0501 sec
 PD 4.9500 sec
 PW1 5.50 usec
 IRNUC 1H
 CTEMP 22.7 c
 SLVNT CDCL3
 EXREF 7.26 ppm
 BF 0.10 Hz
 RGAIN 17

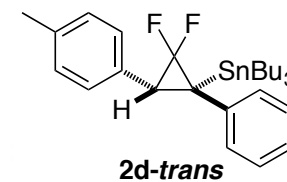


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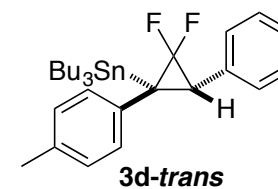


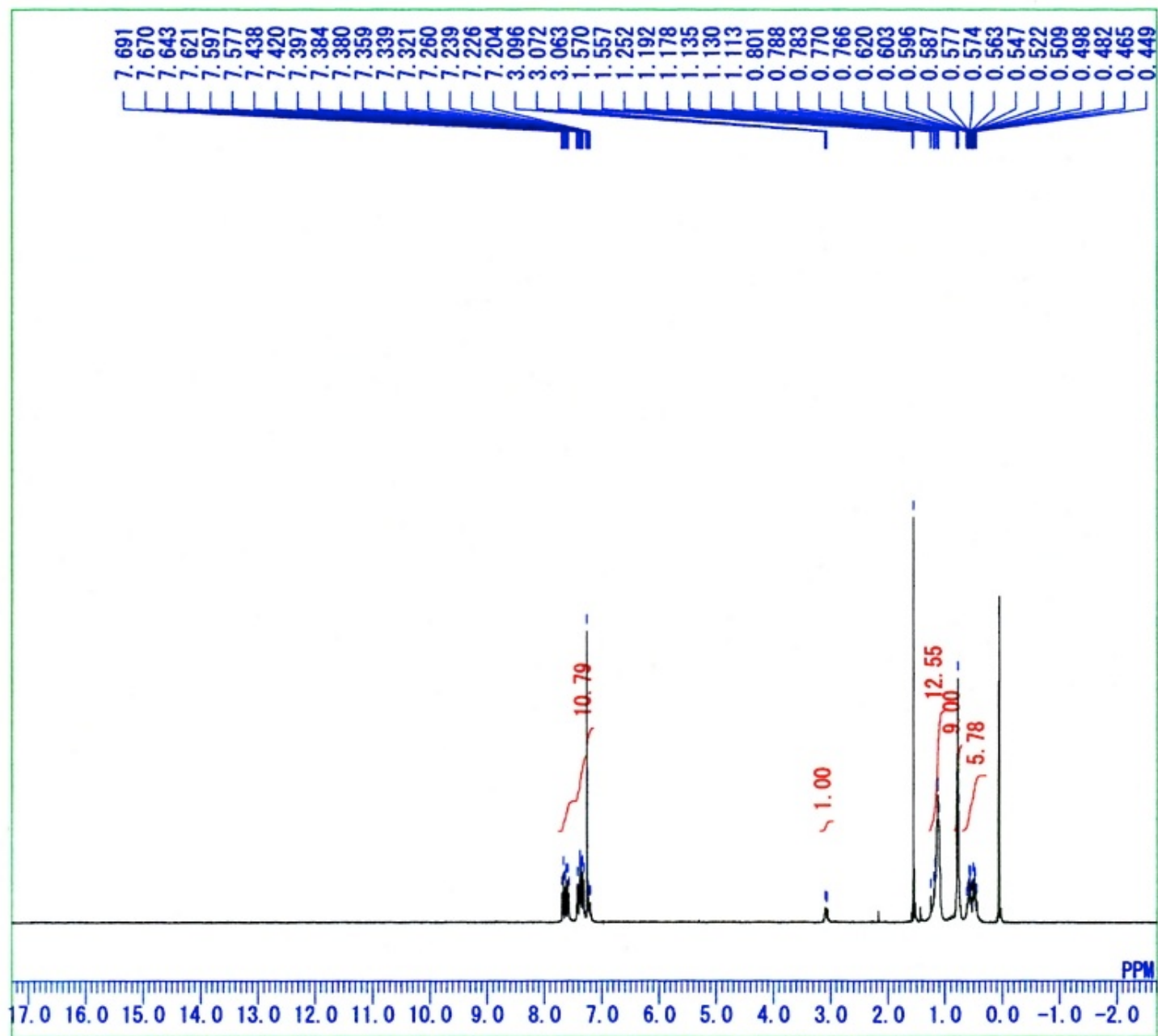


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COMNT auto
DATIM Mon Feb 18 19:59:56 2013
OBNUC 13C
EXMOD BCM
OBFRQ 100.40 MHz
OBSET 125.00 KHz
OBFIN 10500.00 Hz
POINT 32768
FREQU 27118.64 Hz
SCANS 640
ACQTM 1.2083 sec
PD 1.7920 sec
PW1 6.20 usec
IRNUC 1H
CTEMP 22.3 c
SLVNT CDCL3
EXREF 77.00 ppm
BF 0.10 Hz
RGAIN 26

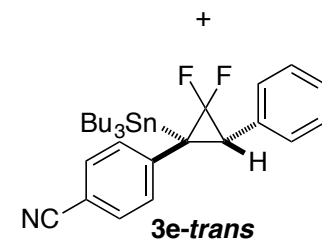
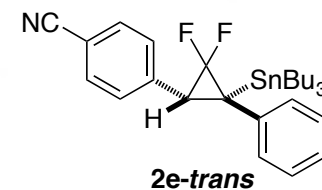


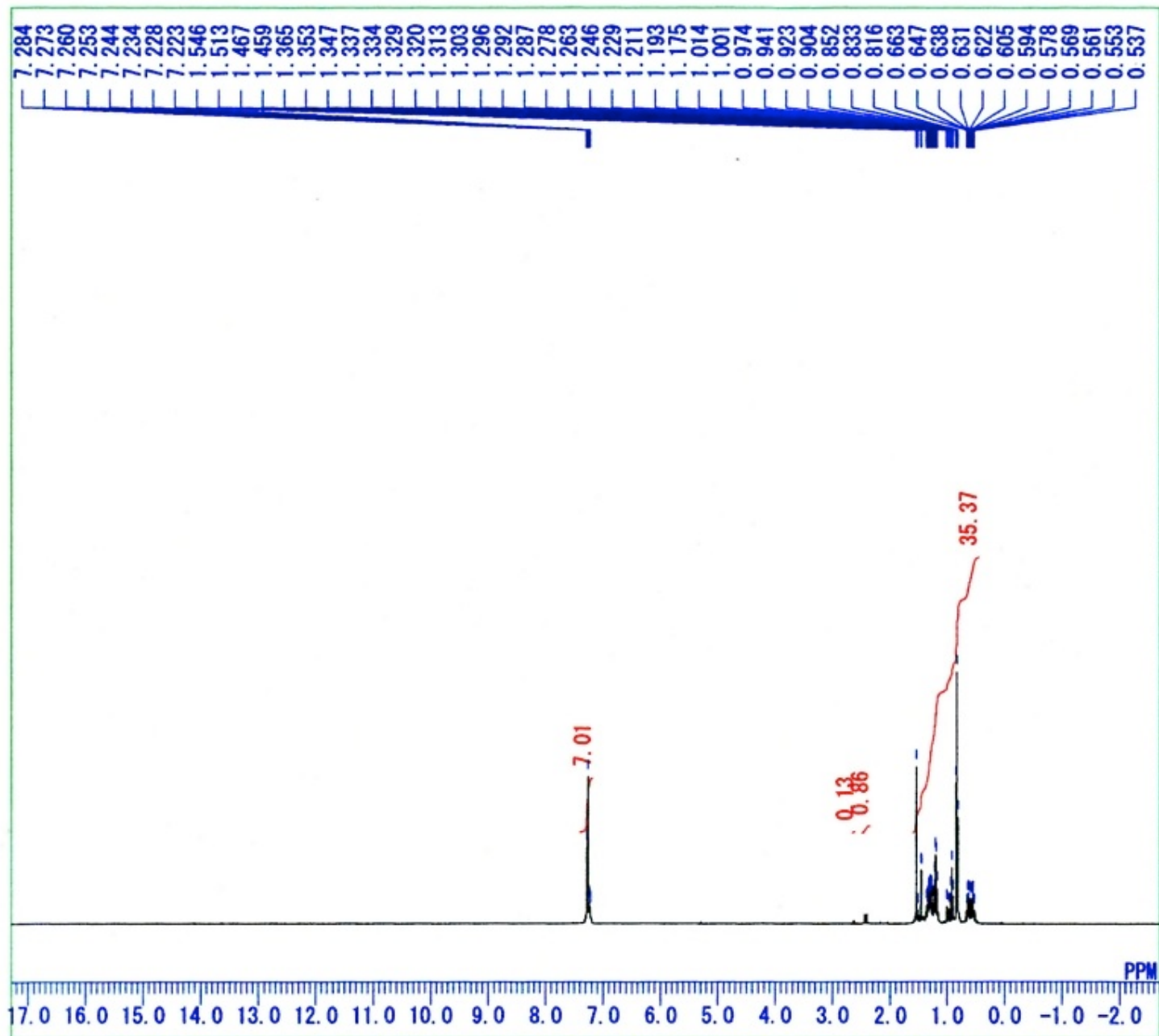
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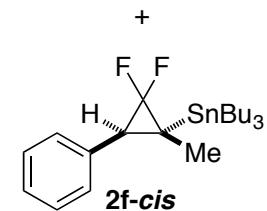
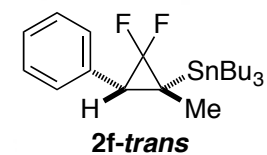


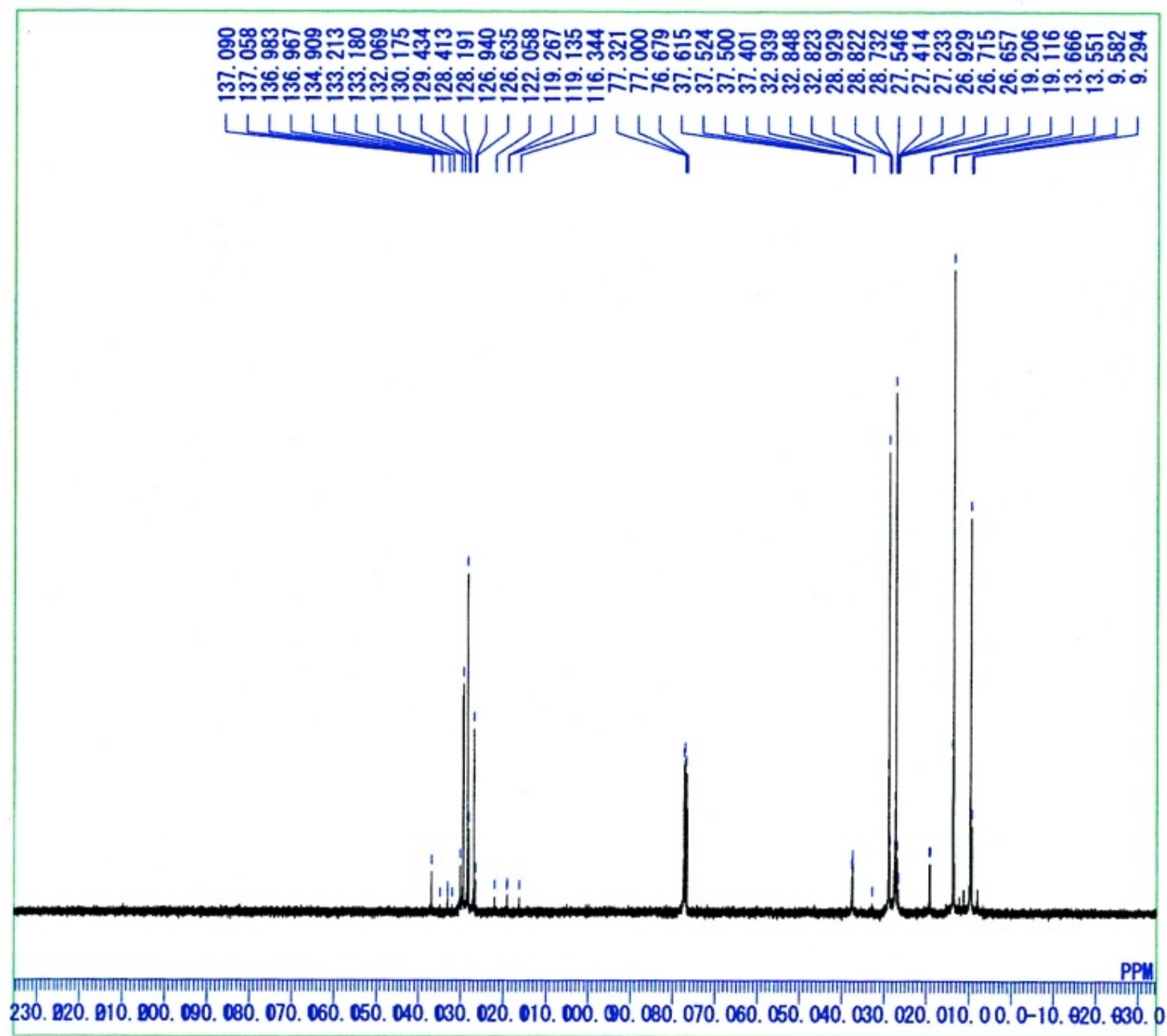
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 COMNT auto
 DATIM Mon Feb 04 19:20:13 2013
 OBNUC 1H
 EXMOD NON
 OBFRQ 399.65 MHz
 OBSET 135.40 KHz
 OBFIN 24.90 Hz
 POINT 16384
 FREQU 7992.01 Hz
 SCANS 8
 ACQTM 2.0501 sec
 PD 4.9500 sec
 PW1 5.50 usec
 IRNUC 1H
 CTEMP 22.4 c
 SLVNT CDCL3
 EXREF 7.26 ppm
 BF 0.10 Hz
 RGAIN 18



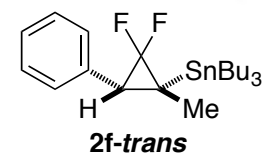


DFILE Ph Me 1H. als
 COMNT auto
 DATIM Fri Nov 25 19:03:06 2011
 OBNUC 1H
 EXMOD NON
 OBFRQ 399.65 MHz
 OBSET 135.40 KHz
 OBFIN 24.90 Hz
 POINT 16384
 FREQU 7992.01 Hz
 SCANS 8
 ACQTM 2.0501 sec
 PD 4.9500 sec
 PW1 5.50 usec
 IRNUC 1H
 CTEMP 22.5 c
 SLVNT CDCL3
 EXREF 7.26 ppm
 BF 0.10 Hz
 RGAIN 17

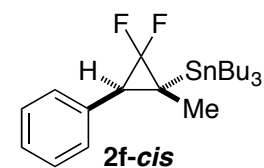


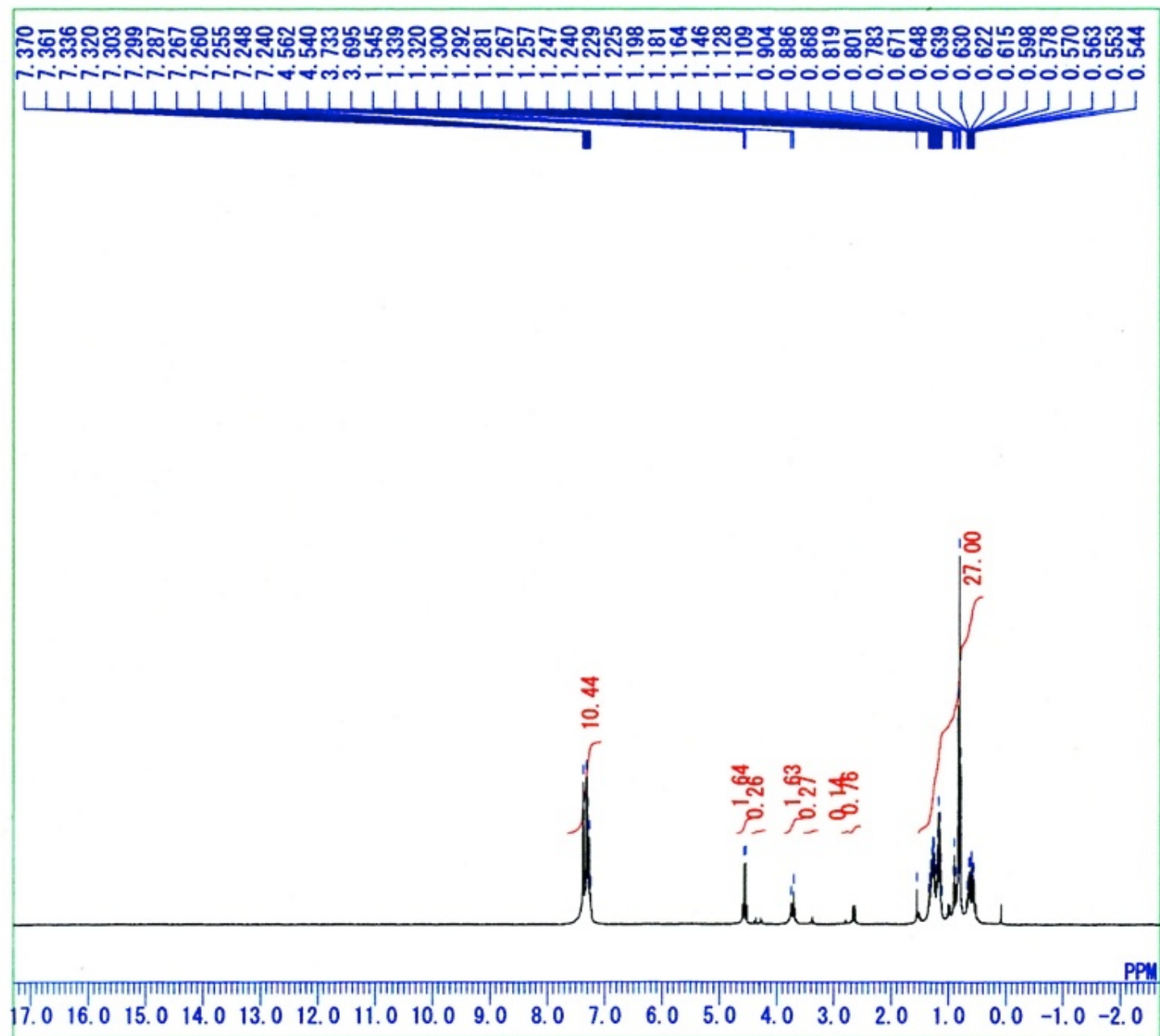


DFILE Ph Me 13C. als
 COMNT auto
 DATIM Thu Jan 10 14:00:57 2013
 OBNUC 13C
 EXMOD BCM
 OBFRQ 100.40 MHz
 OBSET 125.00 KHz
 OBFIN 10500.00 Hz
 POINT 32768
 FREQU 27118.64 Hz
 SCANS 1501
 ACQTM 1.2083 sec
 PD 1.7920 sec
 PW1 6.20 usec
 IRNUC 1H
 CTEMP 22.3 c
 SLVNT CDCL3
 EXREF 77.00 ppm
 BF 0.10 Hz
 RGAIN 25

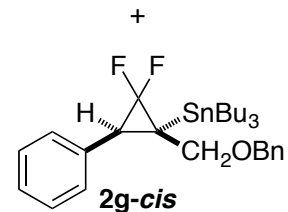
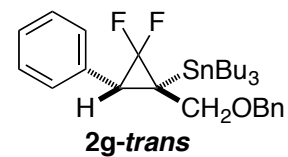


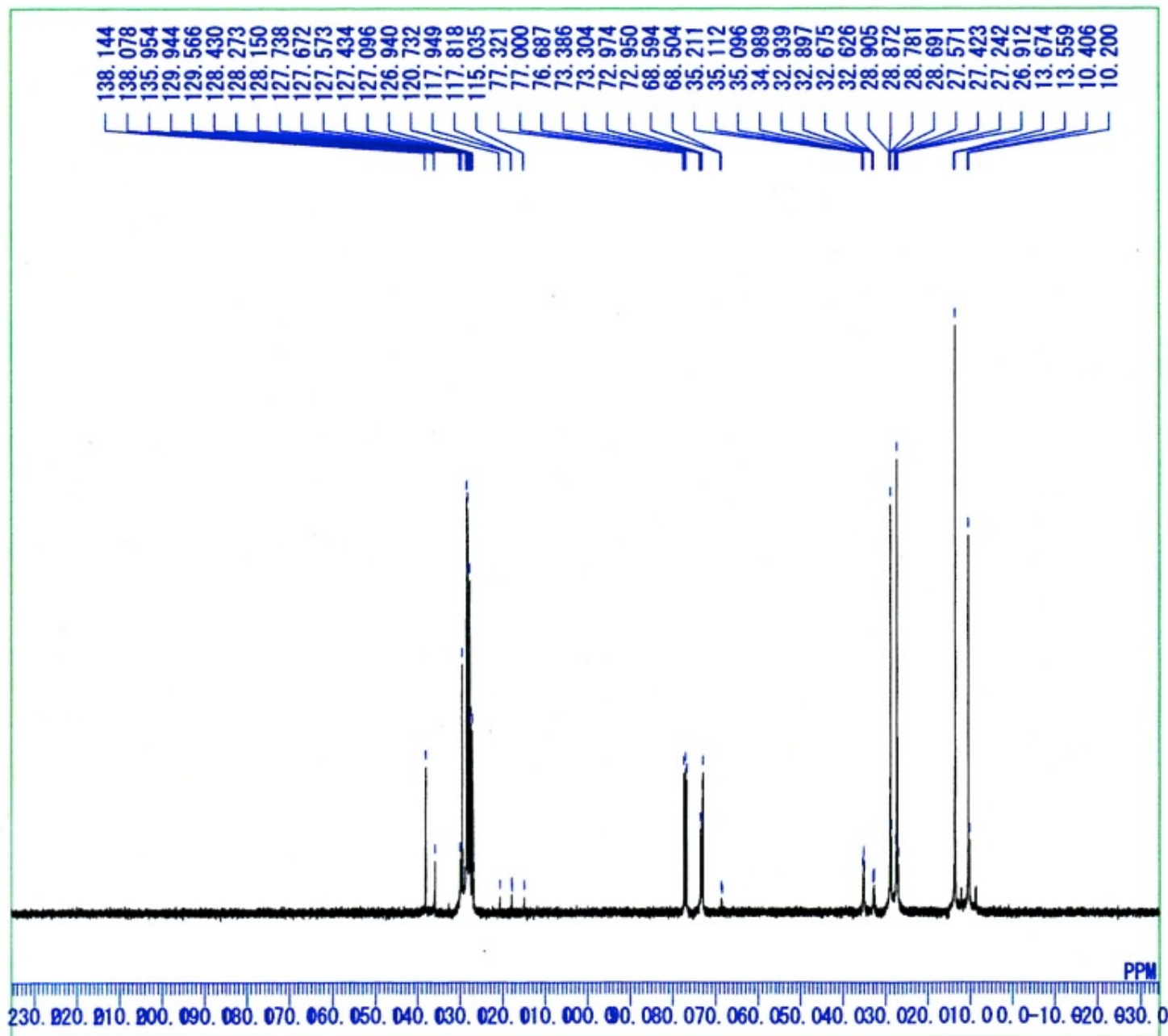
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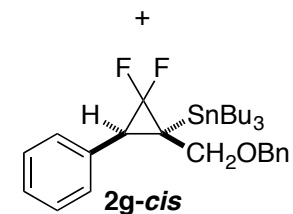
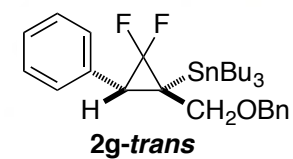


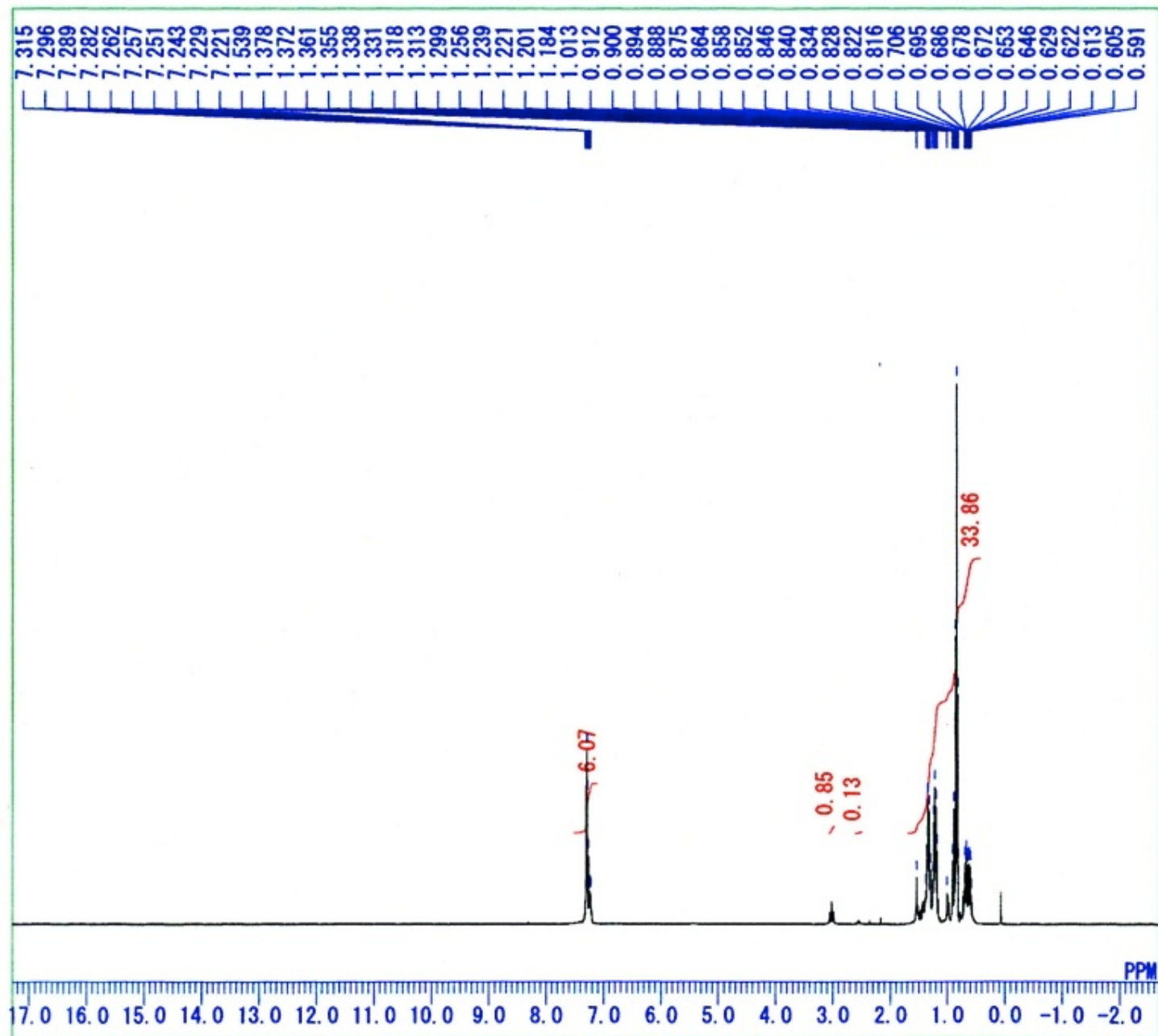
DFILE Ph CH20B n 1H.als
 COMNT auto
 DATIM Wed Jan 09 18:30:52 2013
 OBNUC 1H
 EXMOD NON
 OBFRQ 399.65 MHz
 OBSET 135.40 KHz
 OBFIN 24.90 Hz
 POINT 16384
 FREQU 7992.01 Hz
 SCANS 8
 ACQTM 2.0501 sec
 PD 4.9500 sec
 PW1 5.50 usec
 IRNUC 1H
 CTEMP 21.6 c
 SLVNT CDCL3
 EXREF 7.26 ppm
 BF 0.10 Hz
 RGAIN 15



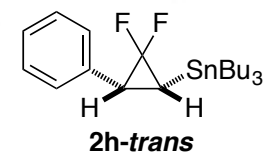


DFILE Ph CH2OBn 13C.als
COMNT auto
DATIM Wed Jan 09 21:52:13 2013
OBNUC 13C
EXMOD BCM
OBFRQ 100.40 MHz
OBSET 125.00 KHz
OBFIN 10500.00 Hz
POINT 32768
FREQU 27118.64 Hz
SCANS 1707
ACQTM 1.2083 sec
PD 1.7920 sec
PW1 6.20 usec
IRNUC 1H
CTEMP 22.4 c
SLVNT CDCL3
EXREF 77.00 ppm
BF 0.10 Hz
RGAIN 24

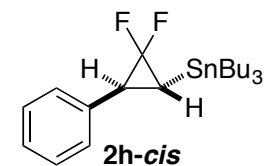


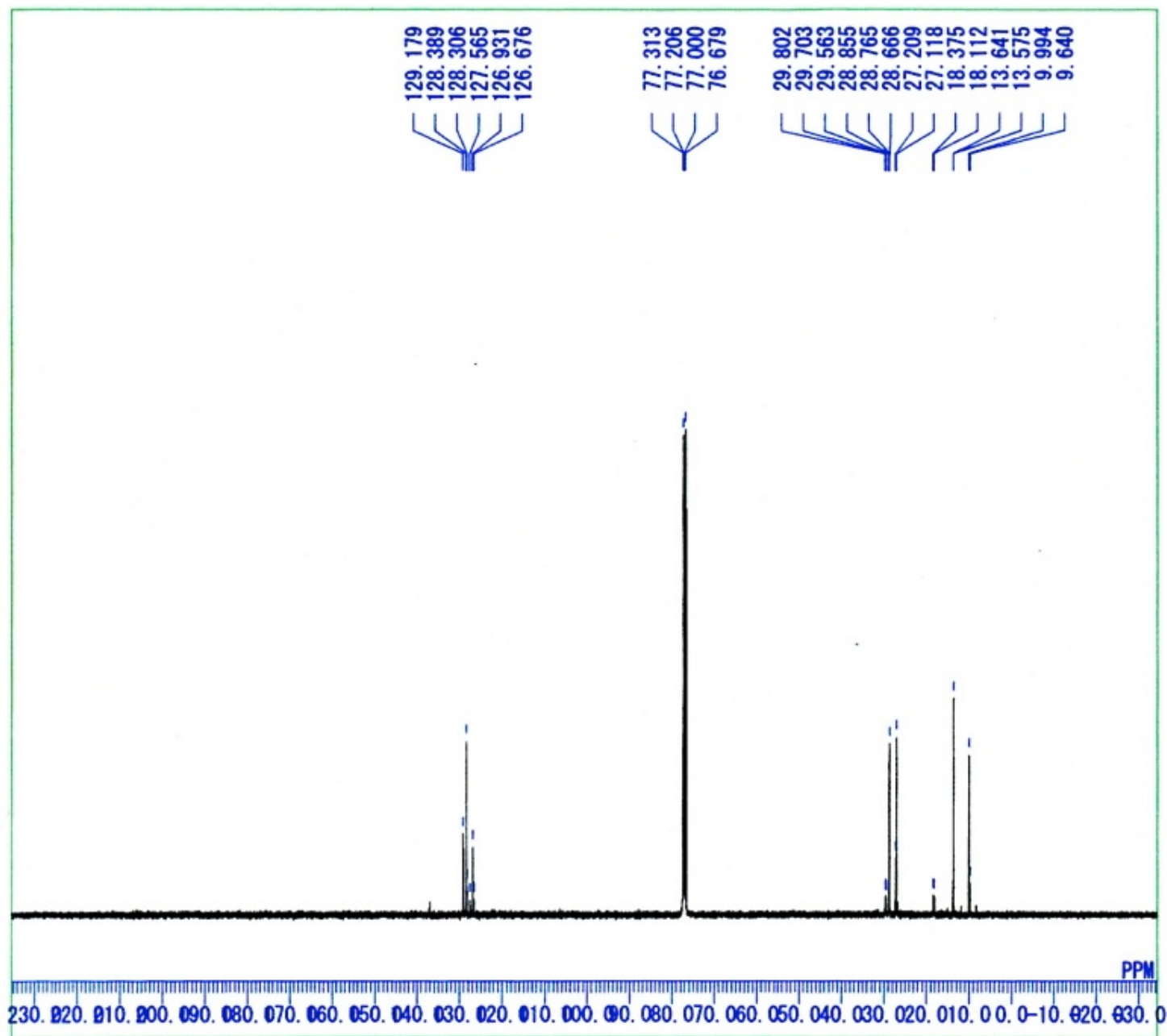


DFILE Ph H 1H.als
 COMNT auto
 DATIM Thu Jan 10 19:32:23 2013
 OBNUC 1H
 EXMOD NON
 OBFRQ 399.65 MHz
 OBSET 135.40 KHz
 OBFIN 24.90 Hz
 POINT 16384
 FREQU 7992.01 Hz
 SCANS 8
 ACQTM 2.0501 sec
 PD 4.9500 sec
 PW1 5.50 usec
 IRNUC 1H
 CTEMP 21.8 c
 SLVNT CDCL3
 EXREF 3.02 ppm
 BF 0.10 Hz
 RGAIN 12

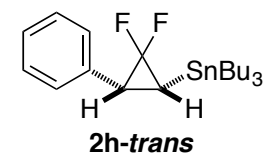


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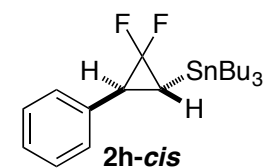


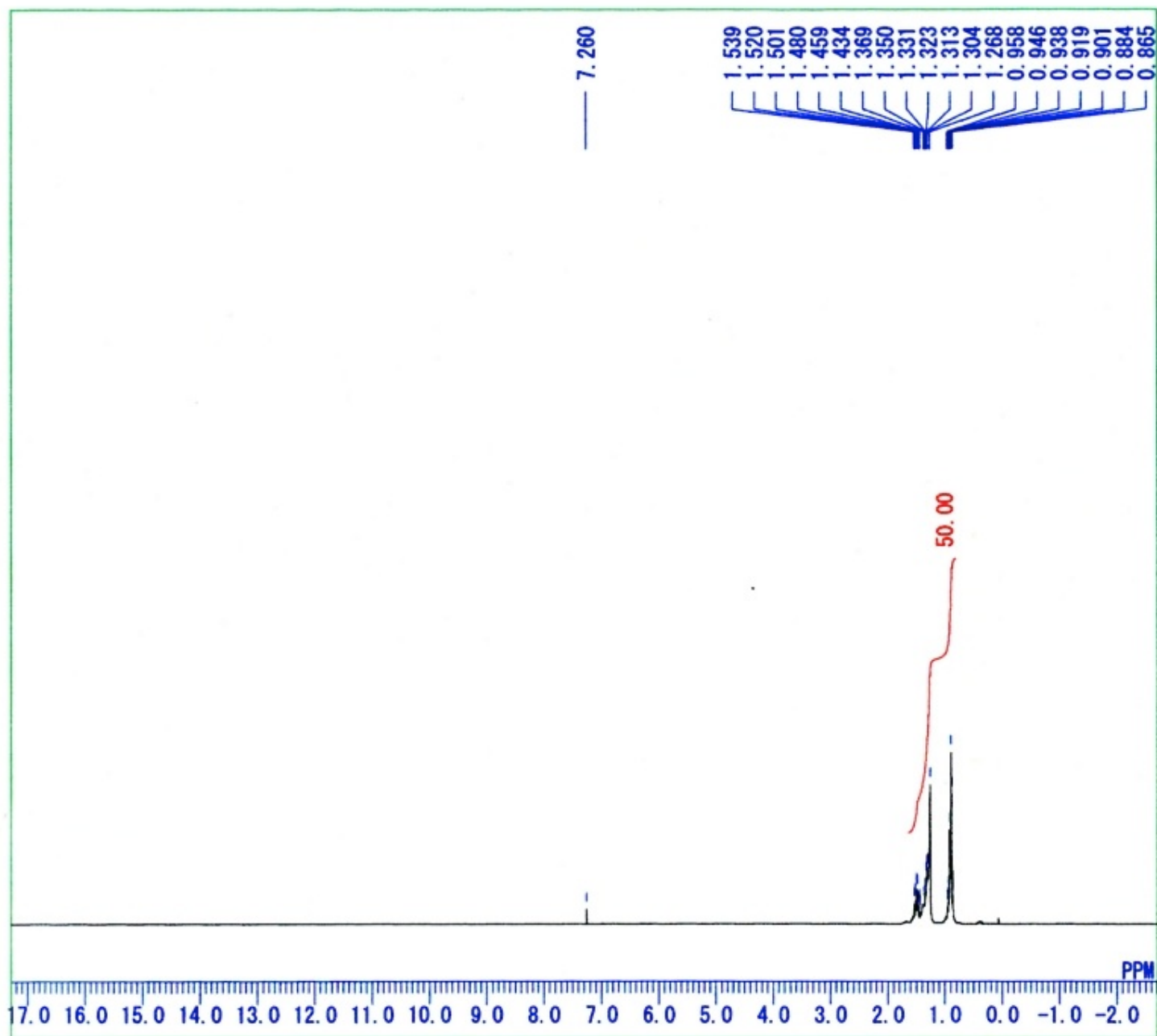


DFILE Ph H 13C.als
 COMNT auto
 DATIM Wed Dec 12 09:39:17 2012
 OBNUC 13C
 EXMOD BCM
 OBFRQ 100.40 MHz
 OBSET 125.00 KHz
 OBFIN 10500.00 Hz
 POINT 32768
 FREQU 27118.64 Hz
 SCANS 12698
 ACQTM 1.2083 sec
 PD 1.7920 sec
 PW1 6.20 usec
 IRNUC 1H
 CTEMP 22.3 c
 SLVNT CDCL3
 EXREF 77.00 ppm
 BF 0.10 Hz
 RGAIN 25

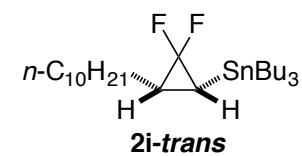


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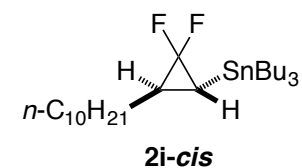


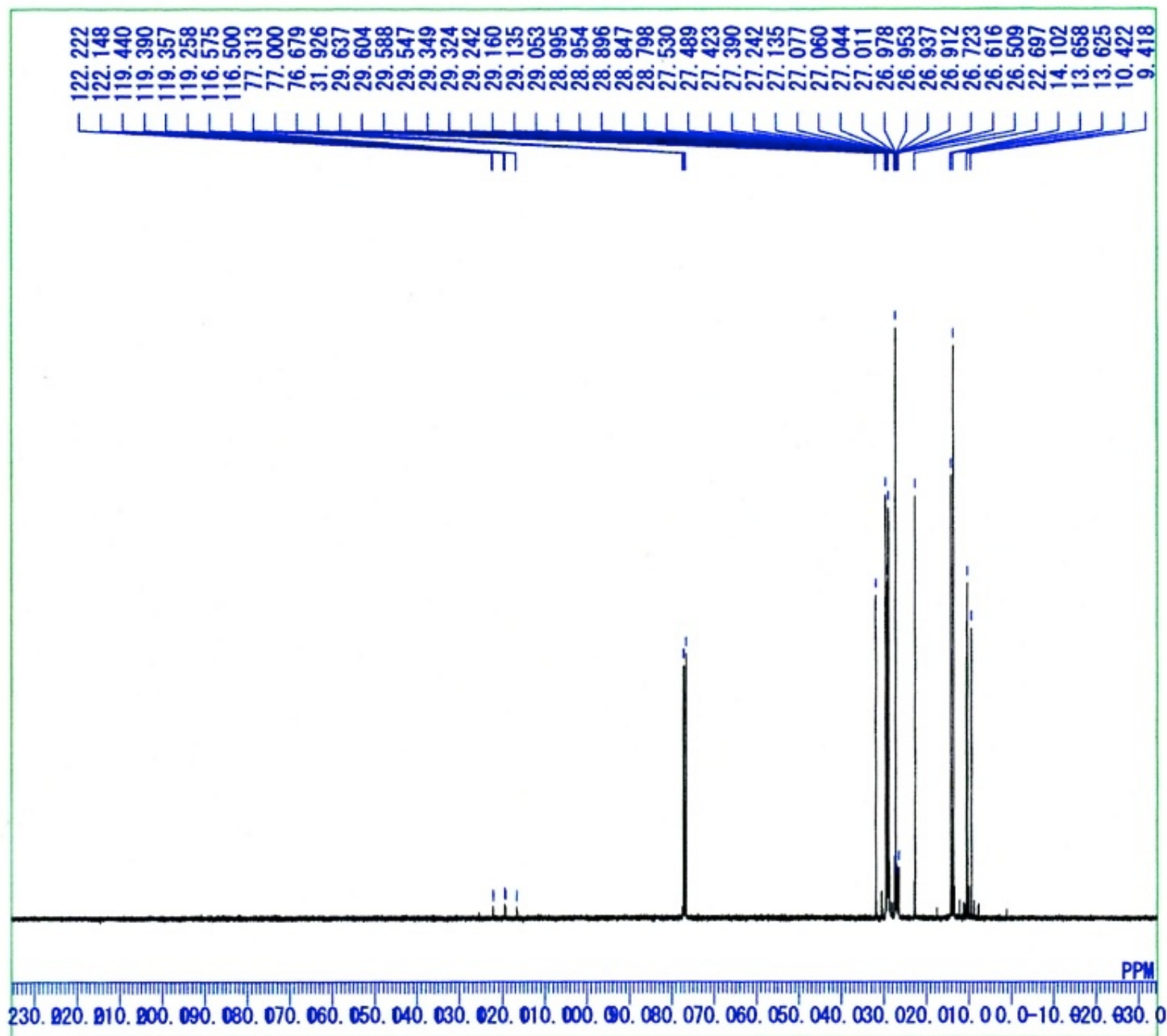


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 COMNT auto
 DATIM Wed Jan 09 18:11:26 2013
 OBNUC 1H
 EXMOD NON
 OBFRQ 399.65 MHz
 OBSET 135.40 KHz
 OBFIN 24.90 Hz
 POINT 16384
 FREQU 7992.01 Hz
 SCANS 8
 ACQTM 2.0501 sec
 PD 4.9500 sec
 PW1 5.50 usec
 IRNUC 1H
 CTEMP 22.0 c
 SLVNT CDCL3
 EXREF 7.26 ppm
 BF 0.10 Hz
 RGAIN 11

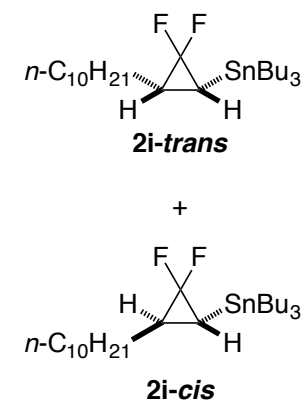


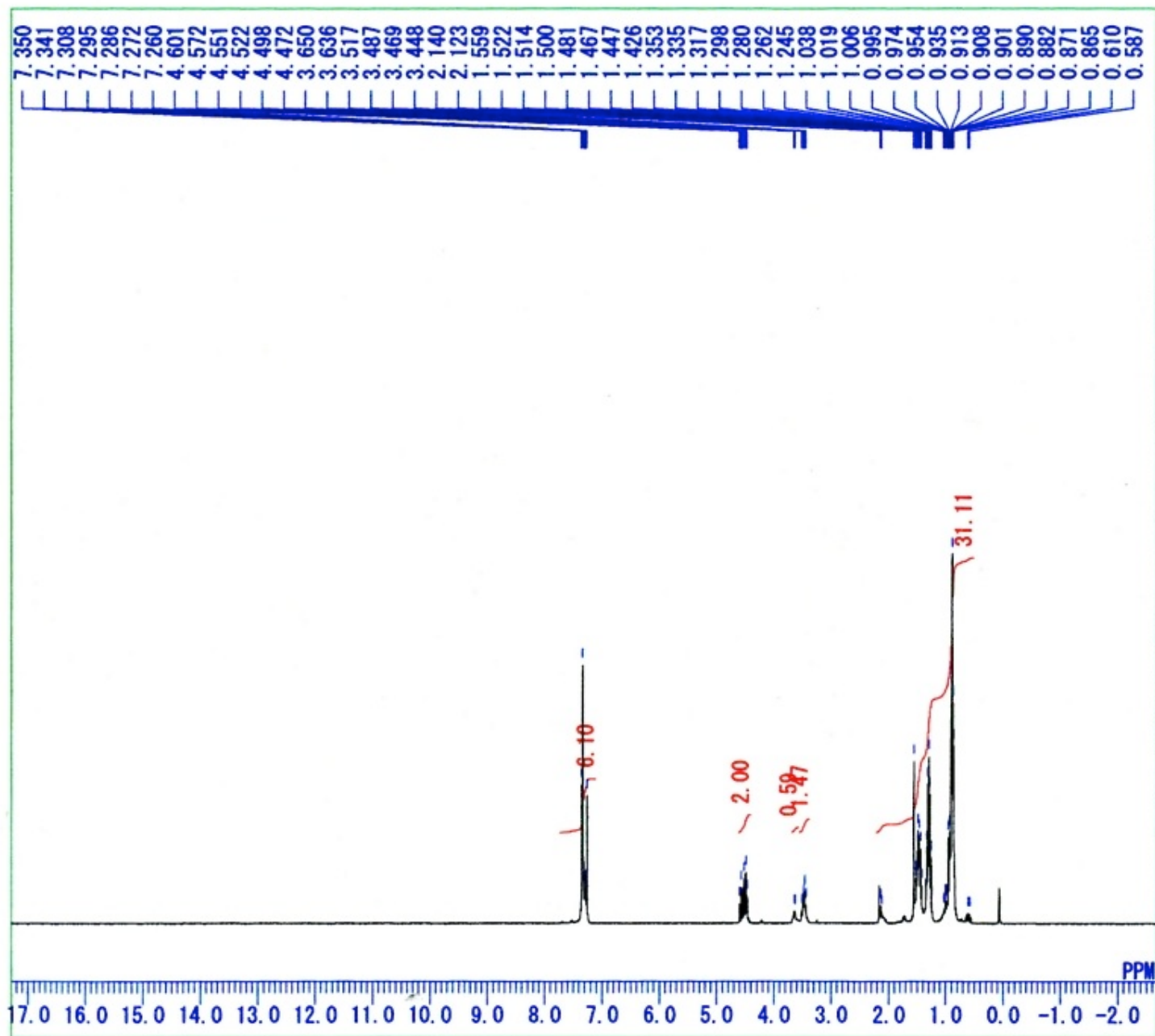
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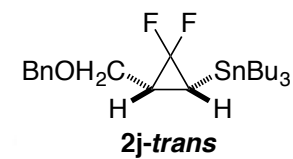


DFILE C10H21 H 13C.als
 COMNT auto
 DATIM Sat Mar 23 22:29:04 2013
 OBNUC 13C
 EXMOD BCM
 OBFRQ 100.40 MHz
 OBSET 125.00 KHz
 OBFIN 10500.00 Hz
 POINT 32768
 FREQU 27118.64 Hz
 SCANS 2432
 ACQTM 1.2083 sec
 PD 1.7920 sec
 PW1 6.20 usec
 IRNUC 1H
 CTEMP 22.1 c
 SLVNT CDCL3
 EXREF 77.00 ppm
 BF 0.10 Hz
 RGAIN 25

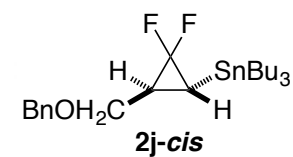


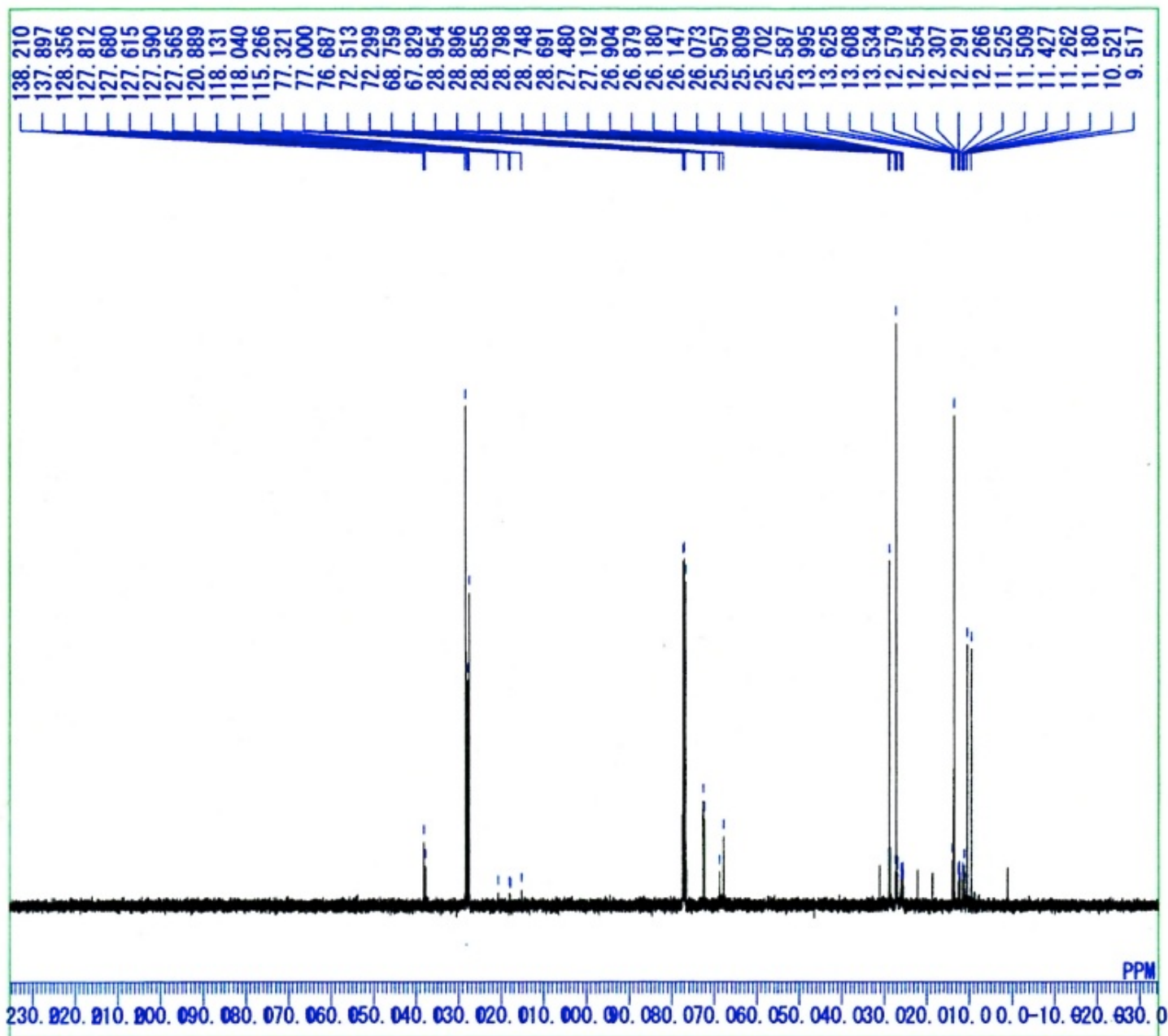


DFILE CH20Bn H 1H.als
 COMNT auto
 DATIM Tue Nov 29 16:16:46 2011
 OBNUC 1H
 EXMOD NON
 OBFRQ 399.65 MHz
 OBSET 135.40 KHz
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 POINT 16384
 FREQU 7992.01 Hz
 SCANS 8
 ACQTM 2.0501 sec
 PD 4.9500 sec
 PW1 5.50 usec
 IRNUC 1H
 CTEMP 21.5 c
 SLVNT CDCL3
 EXREF 7.26 ppm
 BF 0.10 Hz
 RGAIN 16



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DFILE _DEFAULT. ALS
 COMNT auto
 DATIM Sat Mar 23 19:19:55 2013
 OBNUC ¹³C
 EXMOD BCM
 OBFRQ 100.40 MHz
 OBSET 125.00 KHz
 OBFIN 10500.00 Hz
 POINT 32768
 FREQU 27118.64 Hz
 SCANS 512
 ACQTM 1.2083 sec
 PD 1.7920 sec
 PW1 6.20 usec
 IRNUC ¹H
 CTEMP 22.4 c
 SLVNT CDCL₃
 EXREF 77.00 ppm
 BF 0.10 Hz
 RGAIN 25

