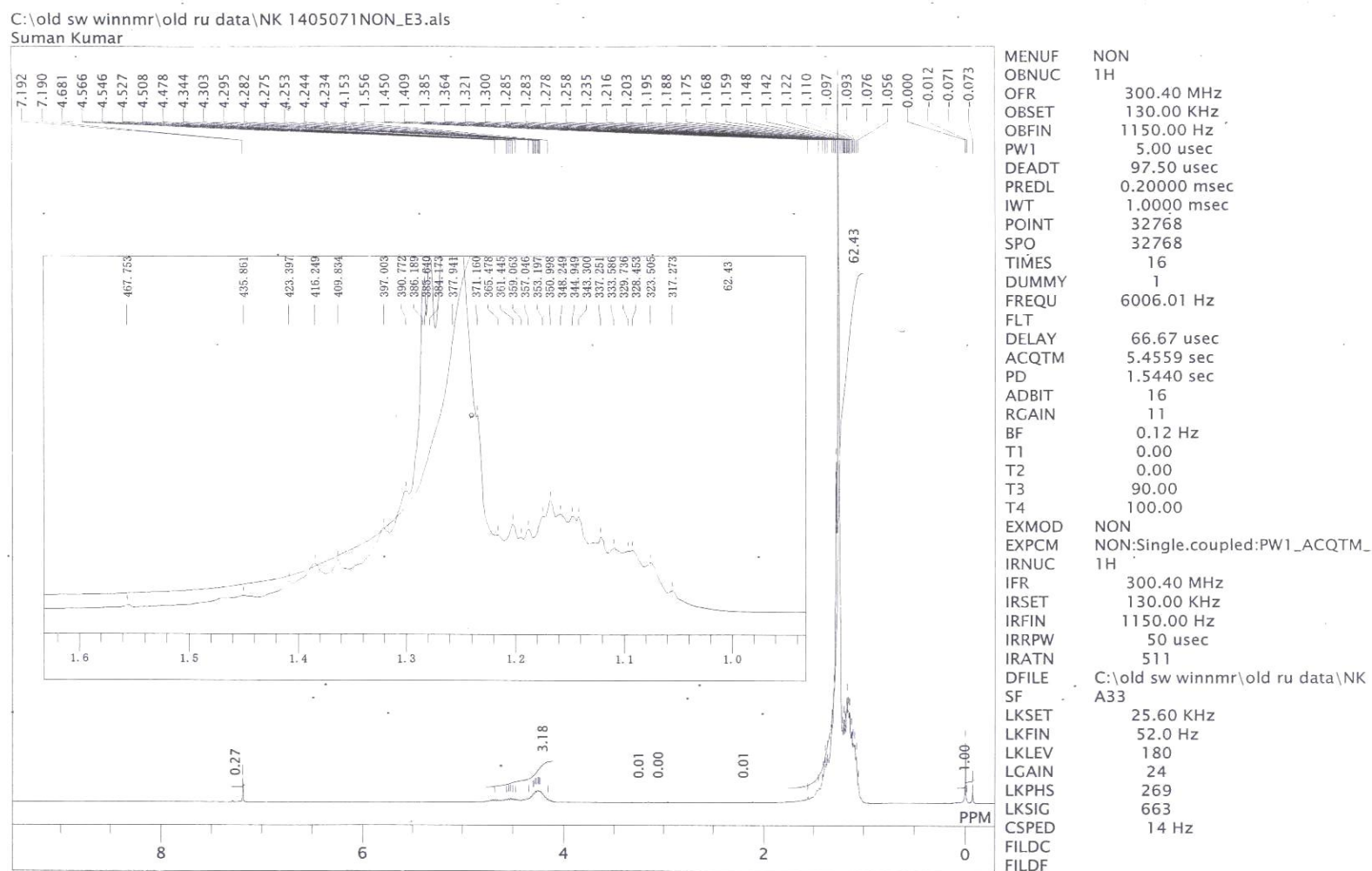
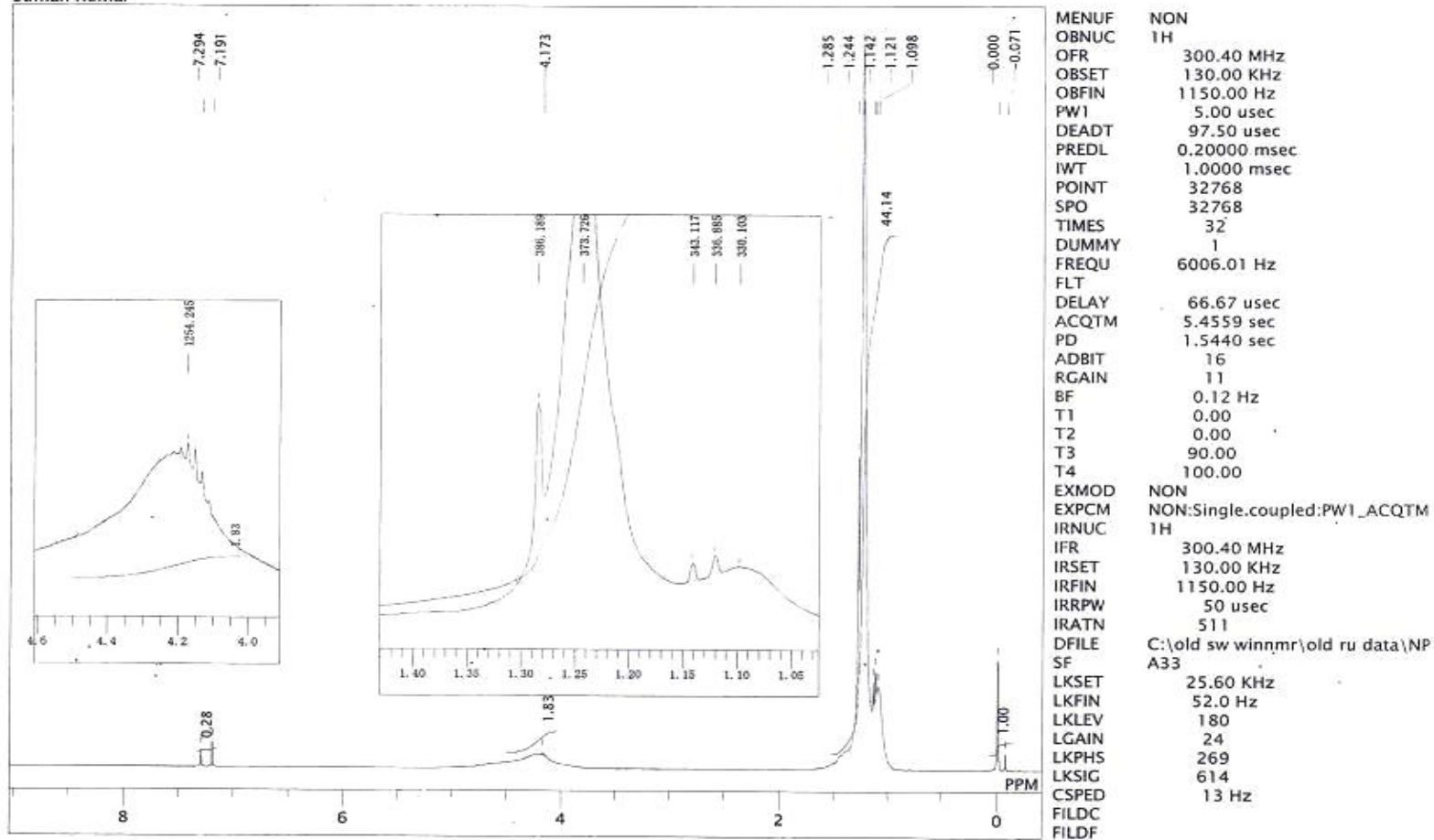


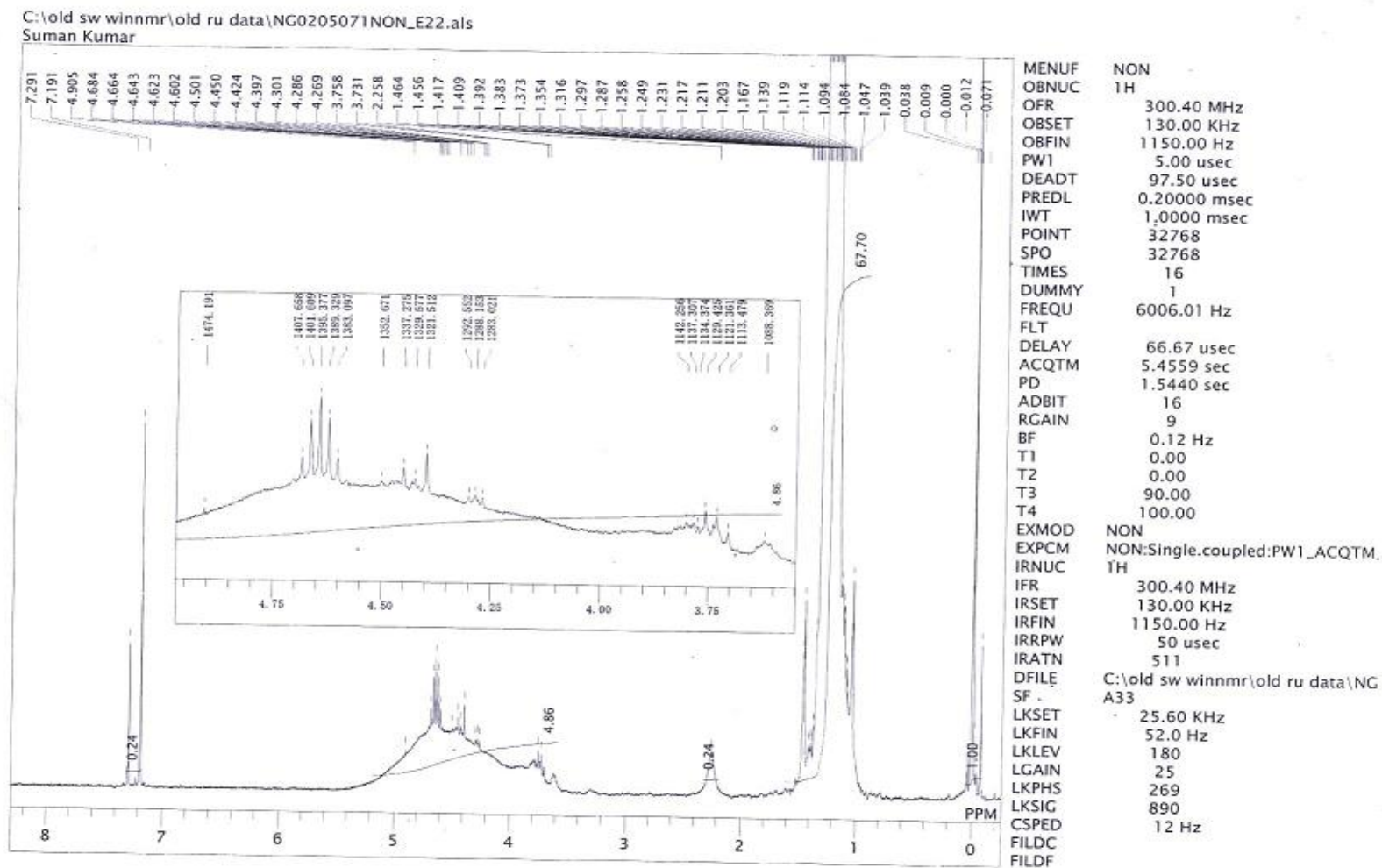


(i) $[\text{Zr}(\text{OPr})_3\{\text{OSi}(\text{O}^t\text{Bu})_3\}]$ (A)

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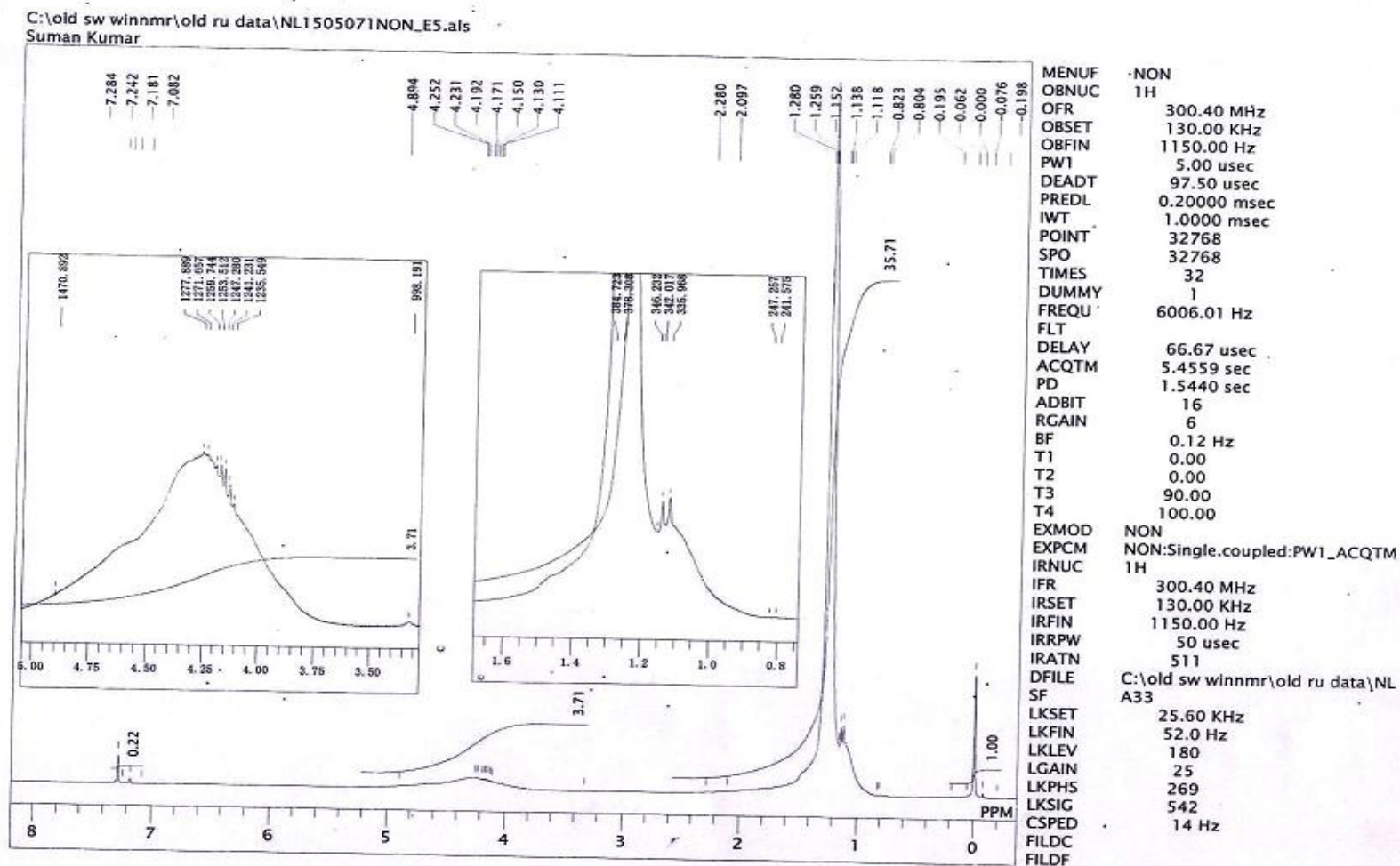


(ii) [Zr(OPrⁱ)₂{O(CH₂)₂O}{OSi(O^tBu)₃}] (1A)

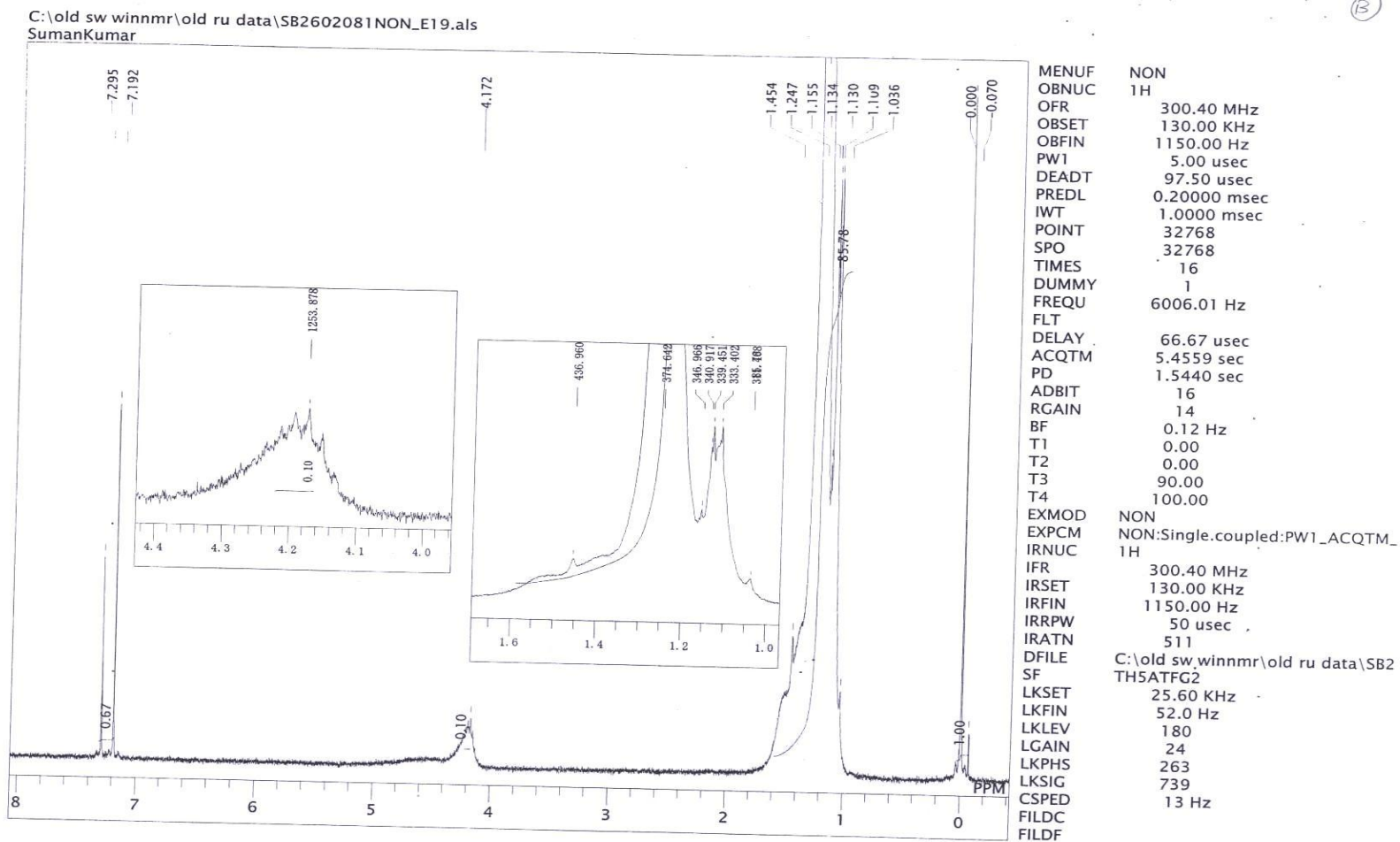


(iii) $[\text{Zr}(\text{OPr})^i\{\text{O}(\text{CH}_2)_3\text{O}\}\{\text{OSi}(\text{O}^t\text{Bu})_3\}]$ (2A)

3A

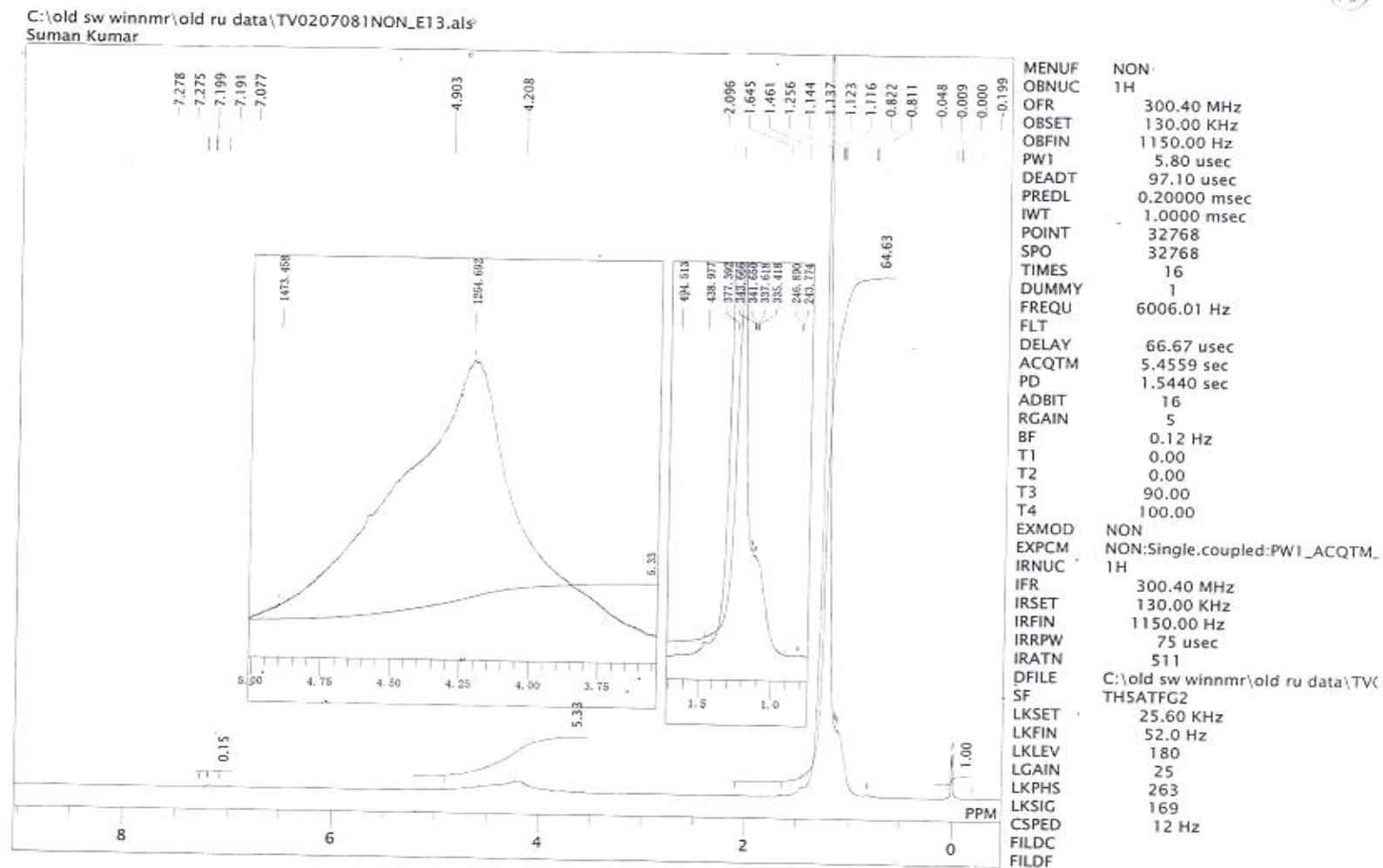


(iv) $[\text{Zr}(\text{OPr})\{\text{O}(\text{CH}_2)_2\text{CH}(\text{CH}_3)\text{O}\}\{\text{OSi}(\text{O}^t\text{Bu})_3\}]$ (3A)

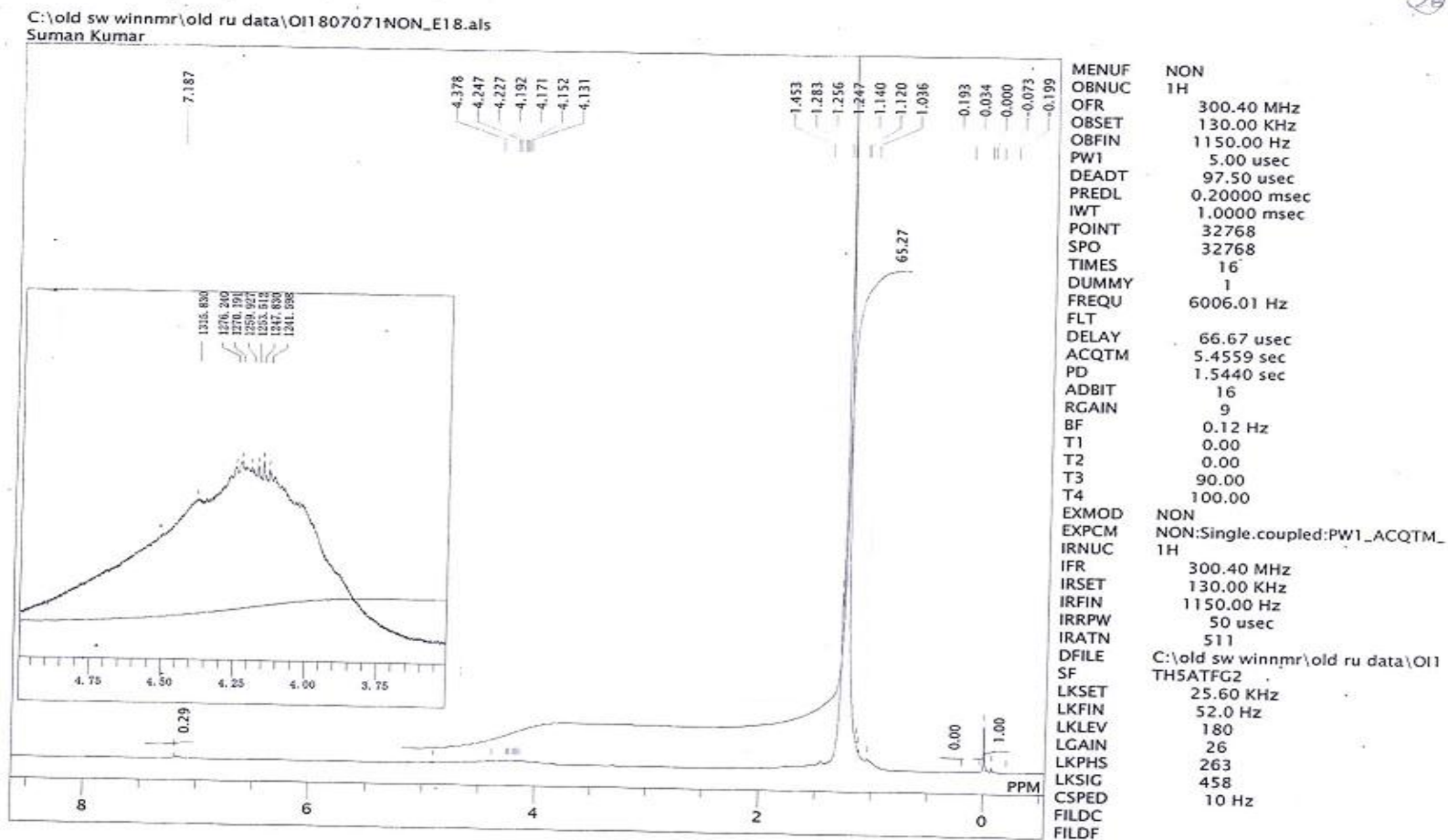


(v) [Zr(OPr)₂{OSi(O^tBu)₃}₂] (B)

15

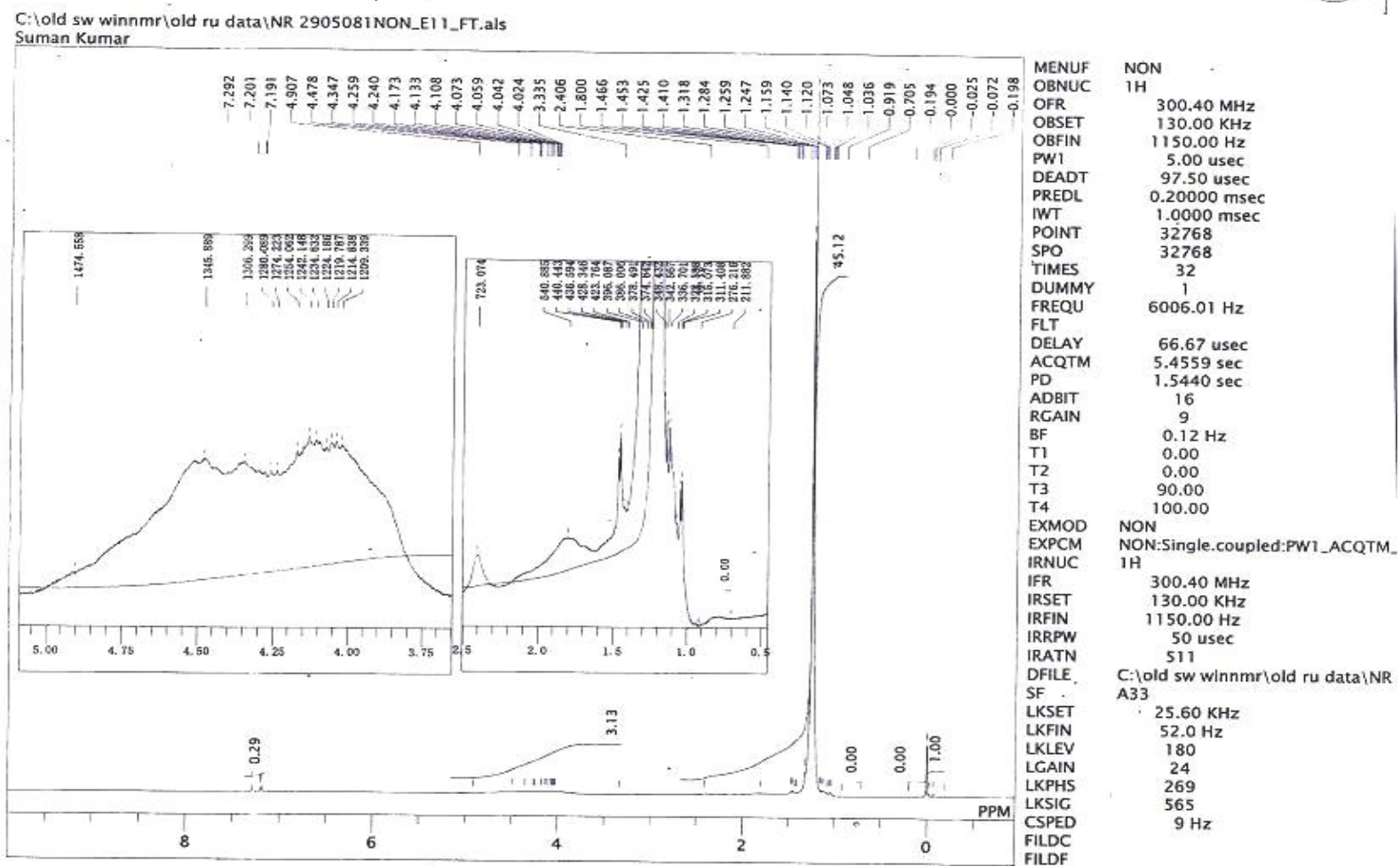


(vi) $[\text{Zr}\{\text{O}(\text{CH}_2)_2\text{O}\}\{\text{OSi}(\text{O}^t\text{Bu})_3\}_2]$ (1B)

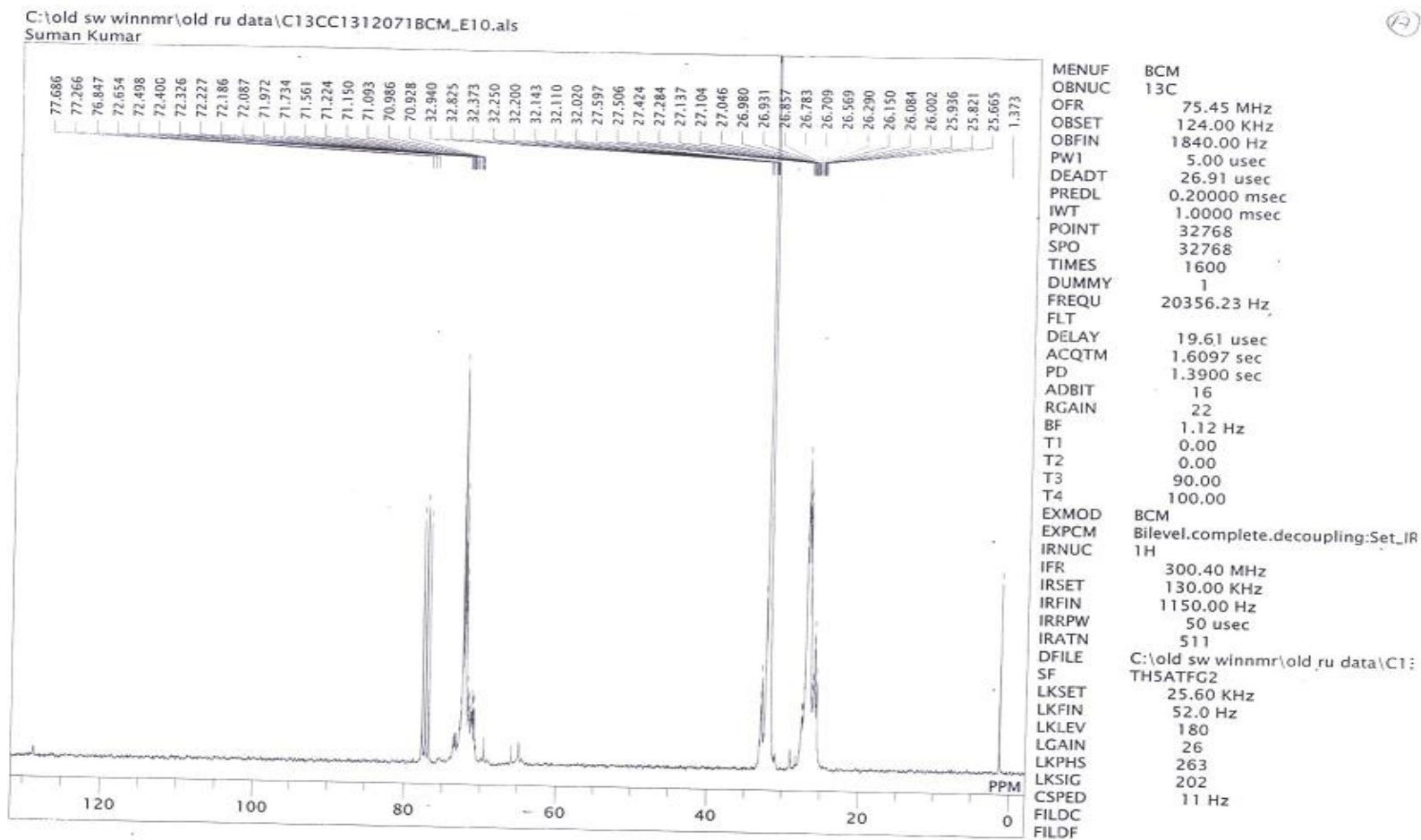


(vii) $[\text{Zr}\{\text{O}(\text{CH}_2)_3\text{O}\}\{\text{OSi}(\text{O}^t\text{Bu})_3\}_2]$ (2B)

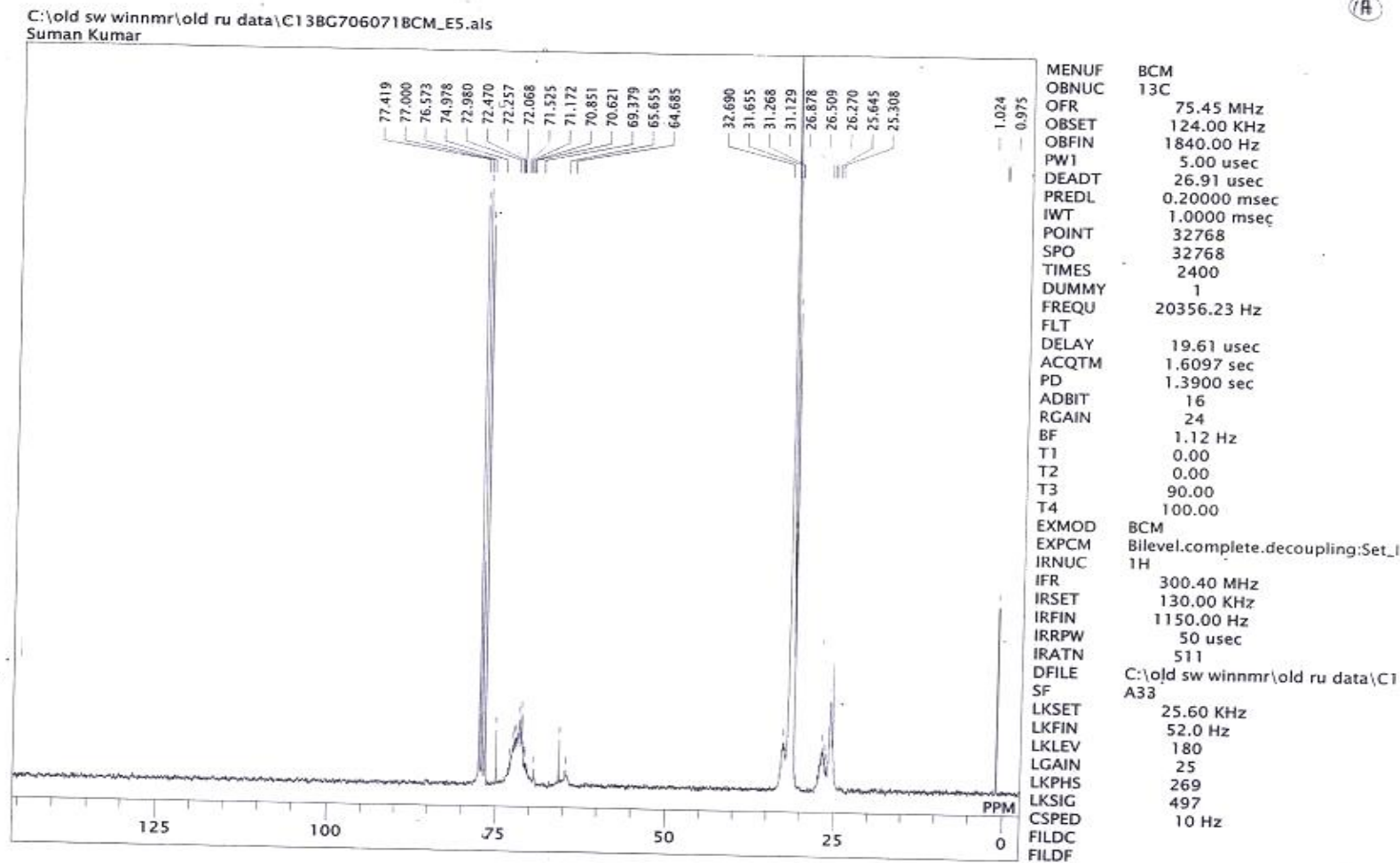
213



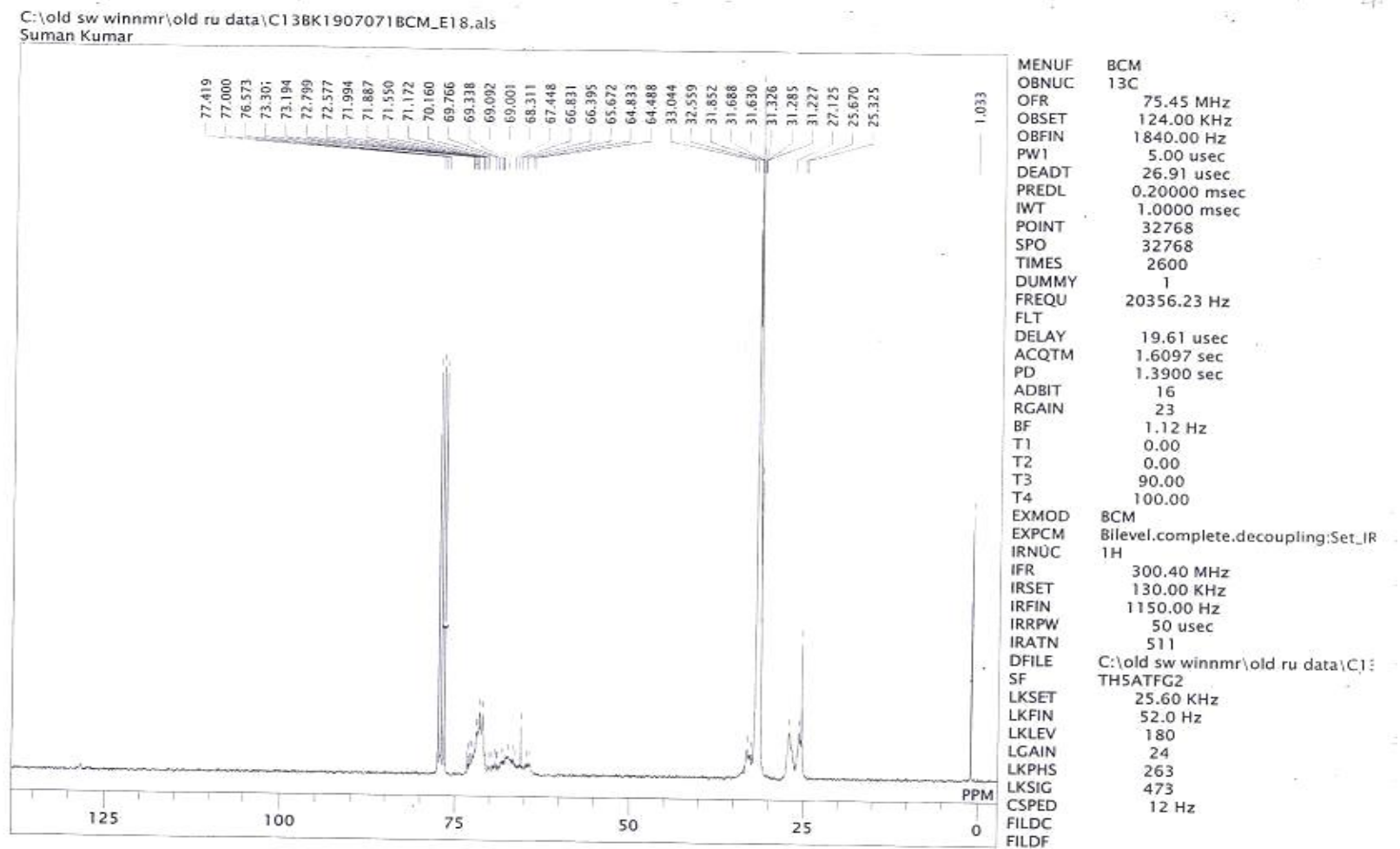
(viii) $[\text{Zr}\{\text{O}(\text{CH}_2)_2\text{CH}(\text{CH}_3)\text{O}\}\{\text{OSi}(\text{O}^t\text{Bu})_3\}_2]$ (3B)



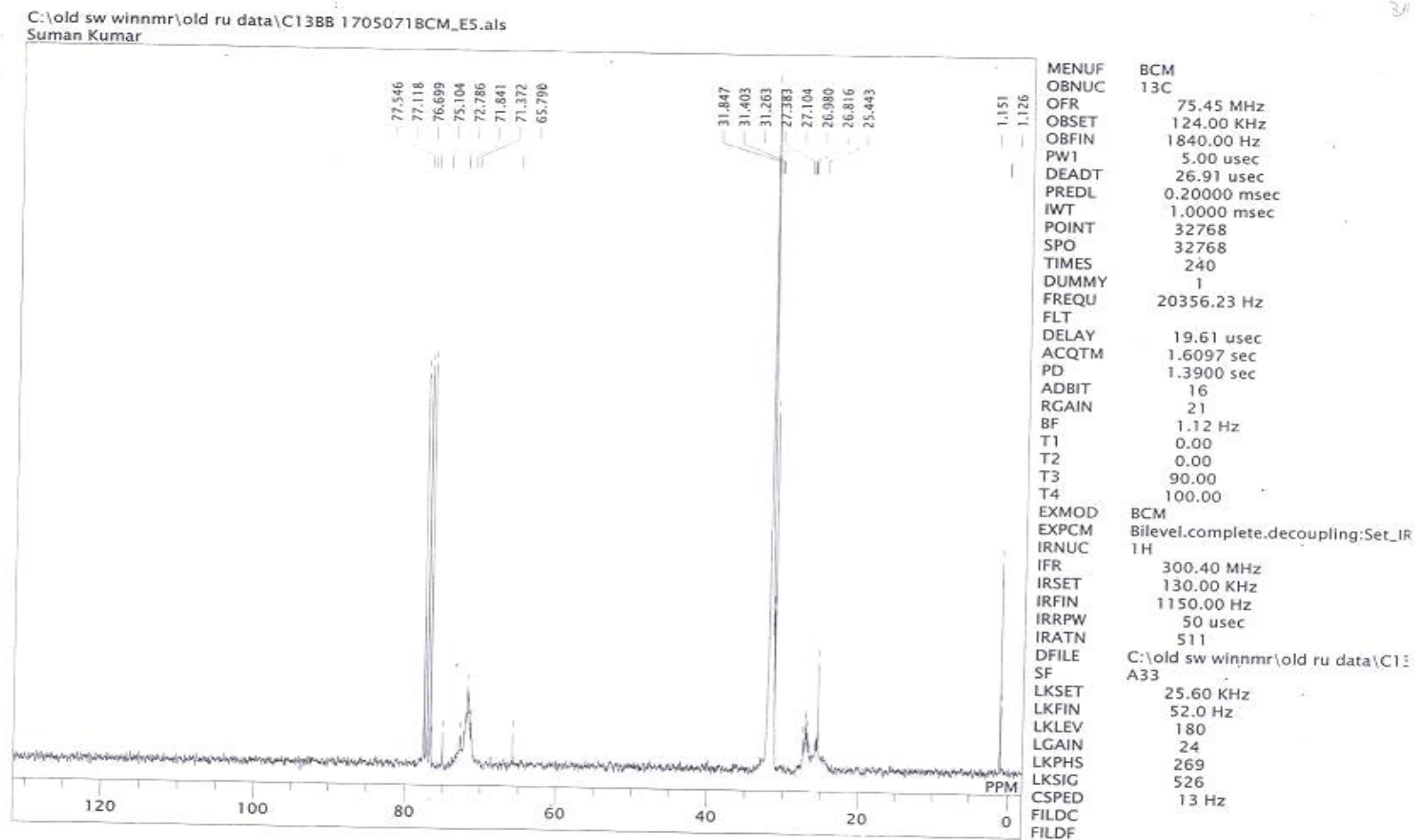
(ix) $[\text{Zr}(\text{OPr}^i)_3\{\text{OSi}(\text{O}^t\text{Bu})_3\}]$ (A)



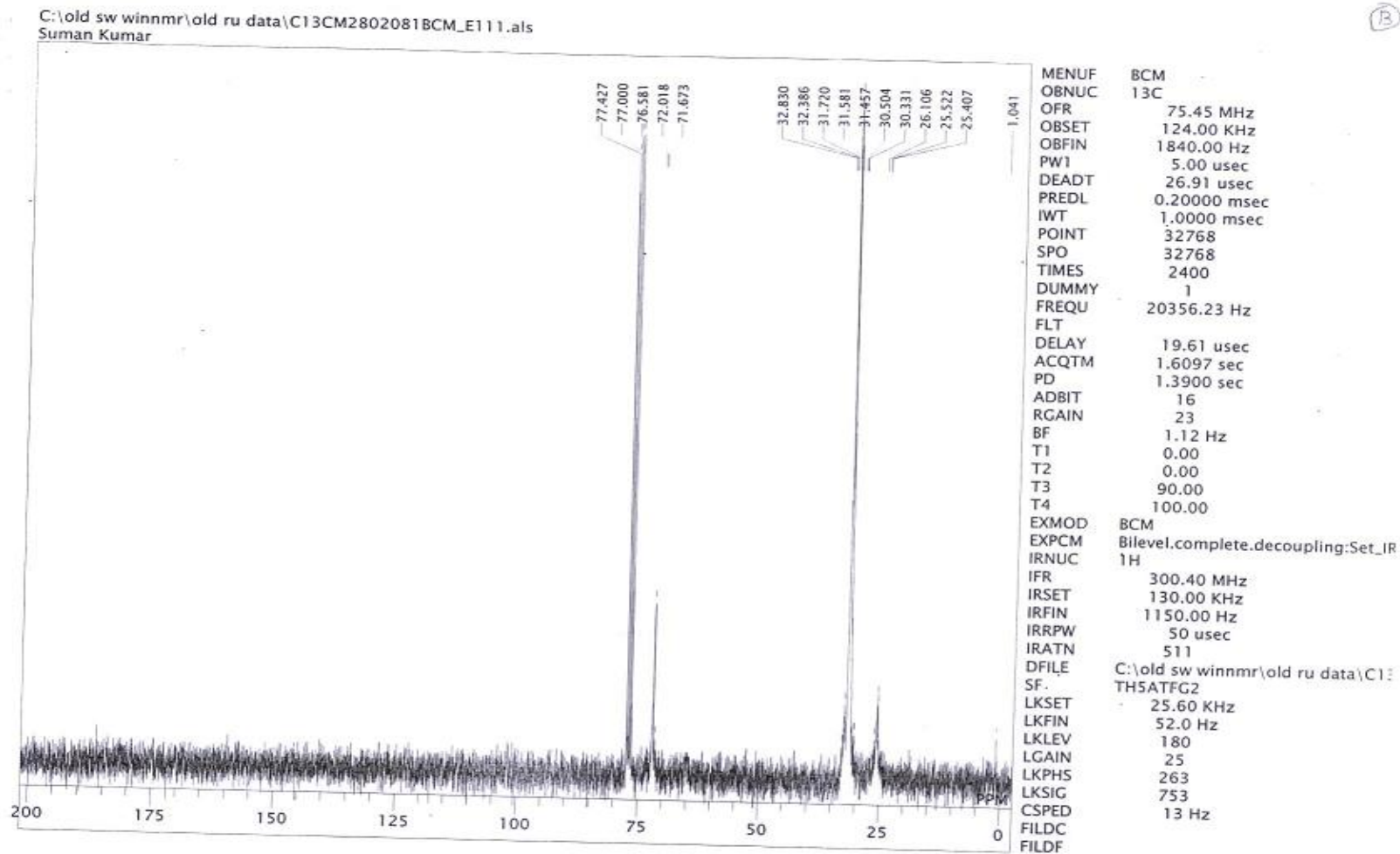
(x) $[\text{Zr}(\text{OPr})\{\text{O}(\text{CH}_2)_2\text{O}\}\{\text{OSi}(\text{O}^t\text{Bu})_3\}]$ (1A)



(xi) $[\text{Zr}(\text{OPr}^i)\{\text{O}(\text{CH}_2)_3\text{O}\}\{\text{OSi}(\text{O}^t\text{Bu})_3\}]$ (2A)

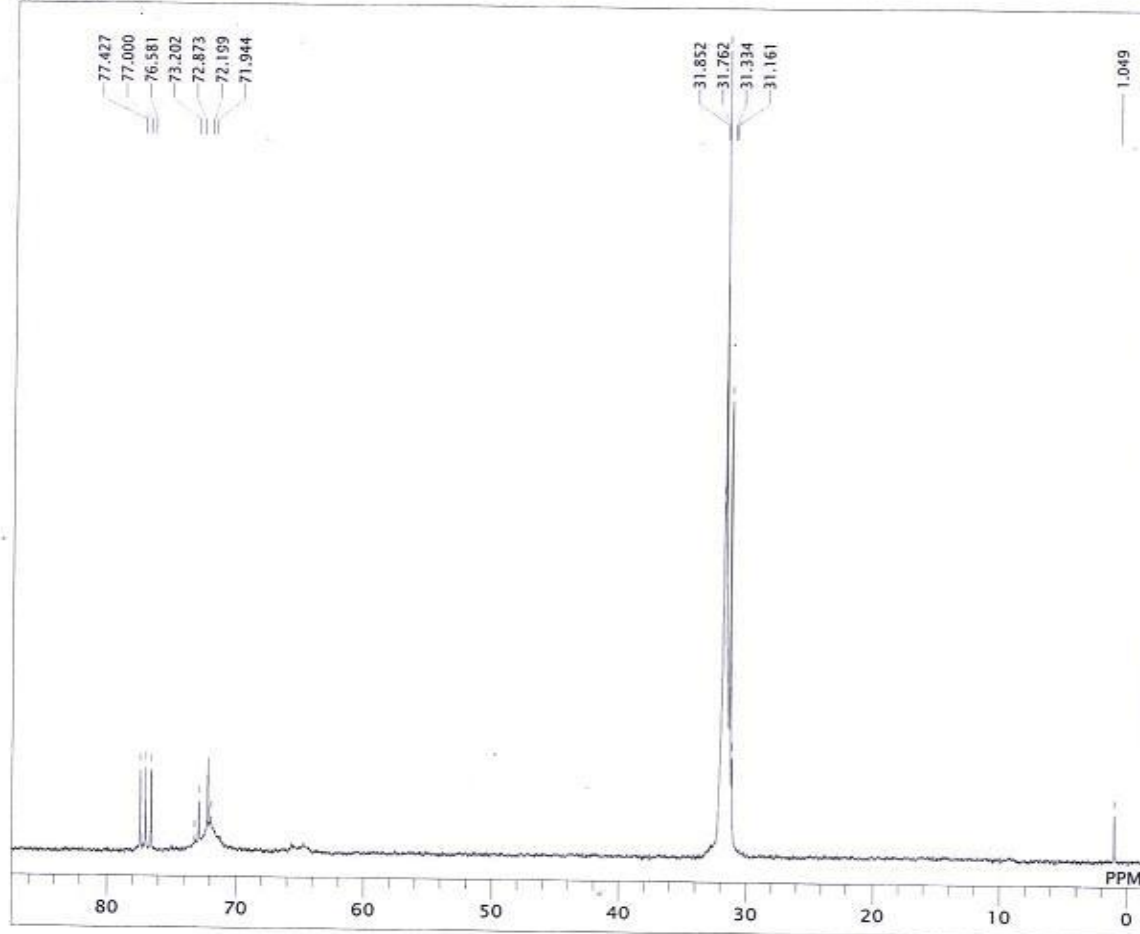


(xii) [Zr(OPrⁱ)₂{O(CH₂)₂CH(CH₃)O}{OSi(O^tBu)₃}] (3A)



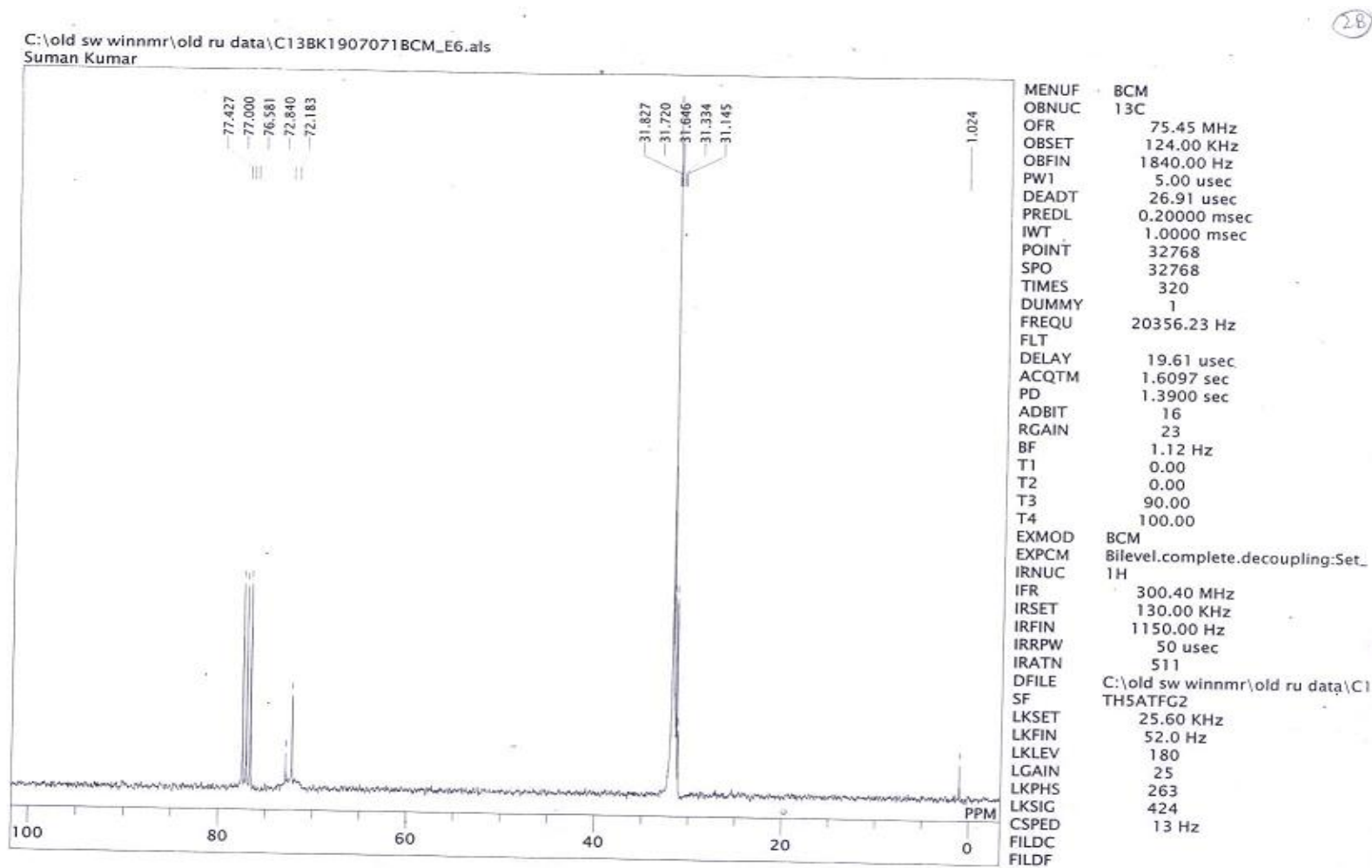
(xiii) $[\text{Zr}(\text{OPr})_2\{\text{OSi}(\text{O}^t\text{Bu})_3\}_2]$ (B)

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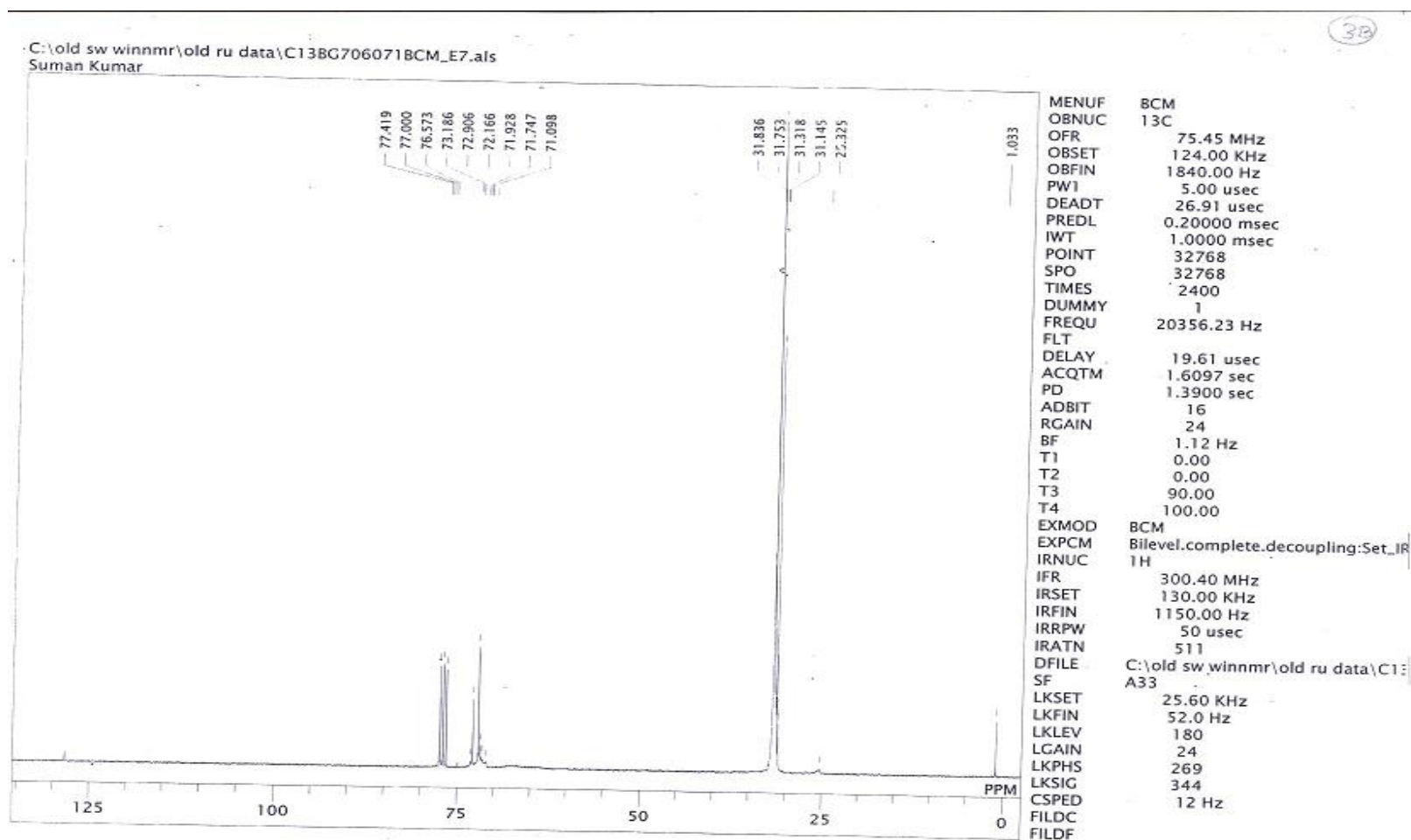


MENUF	BCM
OBNUC	13C
OFR	75.45 MHz
OBSET	124.00 KHz
OBFIN	1840.00 Hz
PW1	6.80 usec
DEADT	26.01 usec
PREDL	0.20000 msec
IWT	1.0000 msec
POINT	32768
SPO	32768
TIMES	480
DUMMY	1
FREQU	20356.23 Hz
FLT	
DELAY	19.61 usec
ACQTM	1.6097 sec
PD	1.3900 sec
ADBIT	16
RGAIN	20
BF	1.12 Hz
T1	0.00
T2	0.00
T3	90.00
T4	100.00
EXMOD	BCM
EXPCM	Bilevel.complete.decoupling:Set_1
IRNUC	1H
IFR	300.40 MHz
IRSET	130.00 KHz
IRFIN	1150.00 Hz
IRRPW	75 usec
IRATN	511
DFILE	C:\old sw winnmr\old ru data\C1
SF	TH5ATFG2
LKSET	25.60 KHz
LKFIN	52.0 Hz
LKLEV	180
LGAIN	26
LKPHS	263
LKSIG	182
CSPED	13 Hz
FILDC	
FILDF	

(xiv) $[\text{Zr}\{\text{O}(\text{CH}_2)_2\text{O}\}\{\text{OSi}(\text{O}^t\text{Bu})_3\}_2]$ (1B)



(xv) $[\text{Zr}\{\text{O}(\text{CH}_2)_3\text{O}\}\{\text{OSi}(\text{O}^t\text{Bu})_3\}_2]$ (2B)



(xvi) $[\text{Zr}\{\text{O}(\text{CH}_2)_2\text{CH}(\text{CH}_3)\text{O}\}\{\text{OSi}(\text{O}^t\text{Bu})_3\}_2]$ (3B)

Fig. (i)-(viii) ^1H NMR spectra and (ix)-(xvi) $^{13}\text{C}\{^1\text{H}\}$ NMR spectra of complexes (A, B, 1A-3A and 1B-3B)