
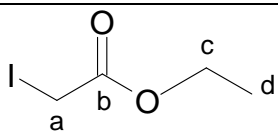


NMR SPECTROMETRY

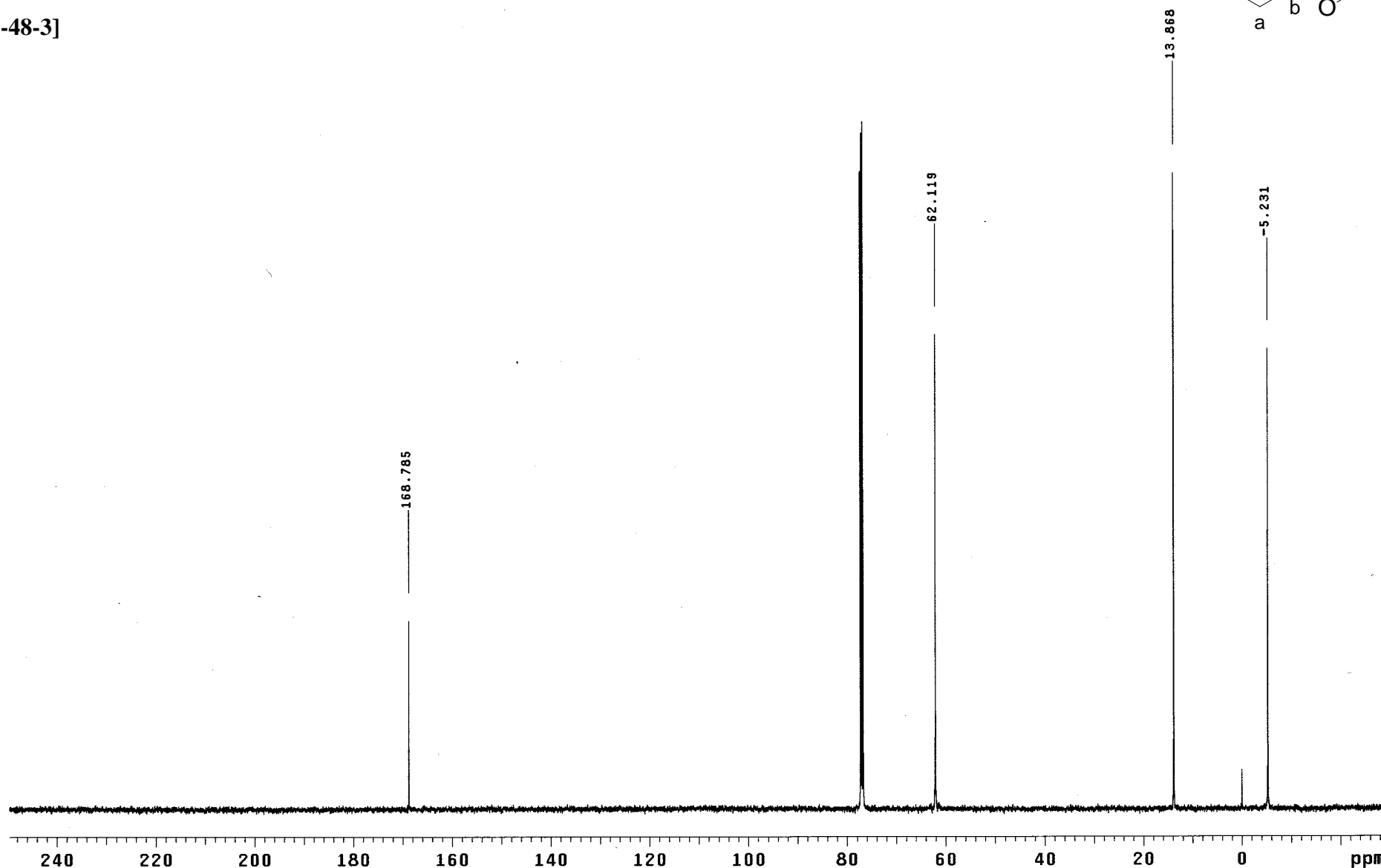
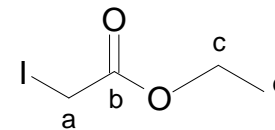
Contributor's name and address:		Verification Laboratory
Secretariat identification code	25-3-0040r (p1/2)	DSO National Laboratories
Signature		11 Stockport Road Singapore 117605
Chemical information:		
Chemical name	Ethyl iodoacetate	
Schedule number		
CAS registry number	623-48-3	
Chemical structure with numbering of atoms		
Molecular formula	C ₄ H ₇ IO ₂	
Sample information:		
Sample purity	98 %	
Sample concentration	75 mg/mL	
Solvent	CDCl ₃	
pH	-	
Source	Alfa Aesar	
Reference chemical shift (internal)	TMS, 0 ppm	
Instrument information:		
Manufacturer	Varian, Inc.	
Model	Inova 500 MHz	
Spectrometer frequency	500 MHz	
Software version	VNMR version 6.1C	
Experimental information:		
Nucleus measured	¹³ C{ ¹ H}	
Sample temperature	25 °C	
Spectral width (Hz)	35133.9	
Data points in Fourier transformed spectrum	65536	
Repetition time	2.5 s	
Pulse angle (μs and degrees)	4.125 μs, 45°	
Date of experiment	13 Apr 2005	
Data points in FID	35062	
Number of scans	720	
Baseline correction	Yes	
Spectral information:		
Chemical shifts (ppm) assigned except for acidic protons	Ca = -5.23, Cb = 168.79, Cc = 62.12, Cd = 13.87	
Coupling constants (Hz)	-	

25-3-0040r (p2/2)

Ethyl iodoacetate (C₄H₇IO₂)

¹³C{¹H} NMR

[623-48-3]



Res.Freq: 125.653 MHz
Solvent: CDCl₃
Temperature: 25°C
Concentration: 75 mg/mL

Reference: TMS (internal)
Spectral Width: 35133.9 Hz
Data points [FID]: 35062
Data points [Spectrum]: 65536

Pulse width: 4.125 μs, 45°
Number of Scans: 720
Line broadening: 2
Rep. time: 2.5 s

Resolution: 1.07 Hz (TMS)
Baseline correction: Yes
Instrument: Varian INOVA 500

Nuc δ[ppm]	Nuc δ[ppm]
a: -5.23	d: 13.87
b: 168.79	
c: 62.12	