

Supporting information

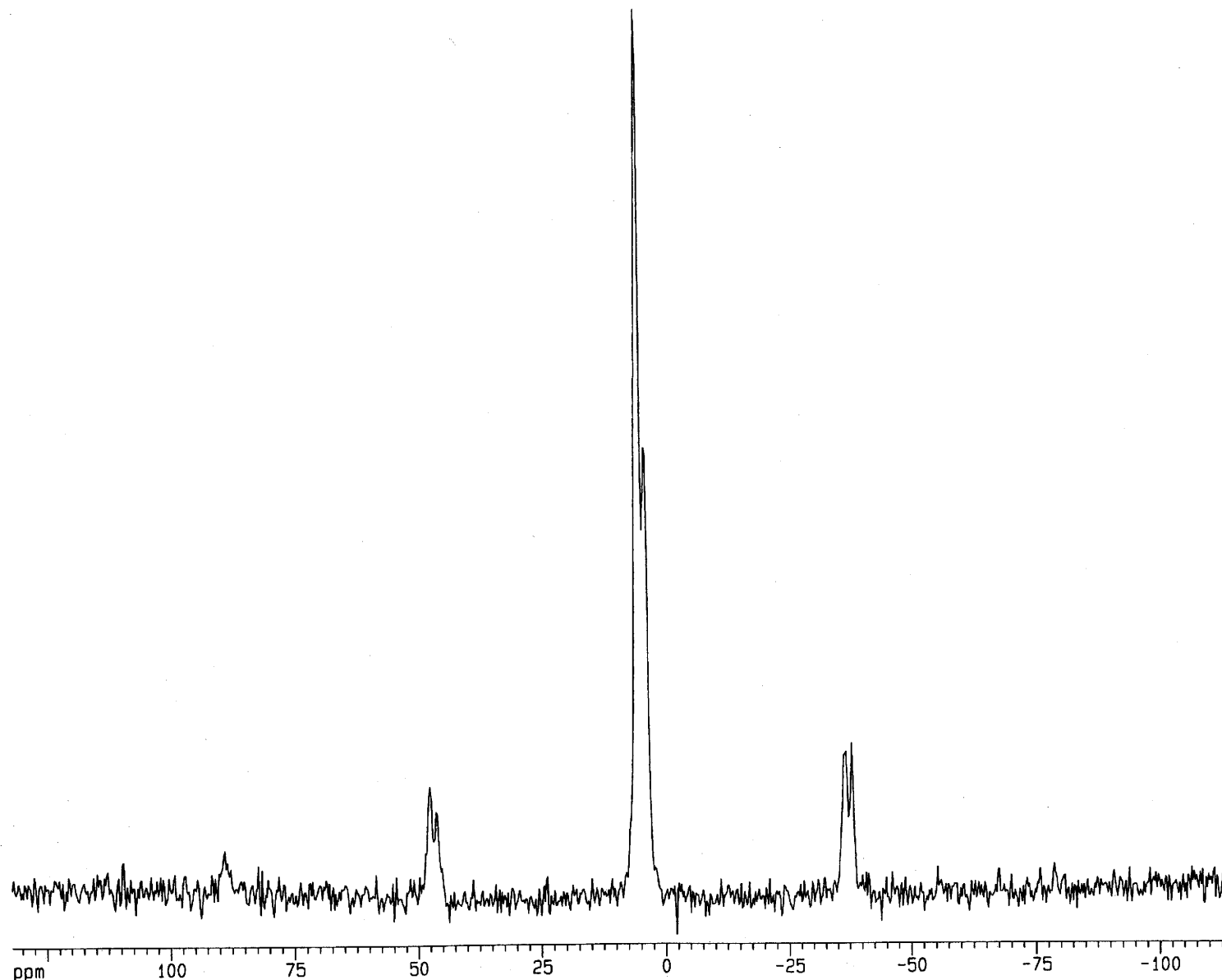
Title: Direct detection of the bound sodium ions in self-assembled 5'-GMP gels: A solid state ^{23}Na NMR approach

Authors: Gang Wu, Alan Wong

^{31}P CPMAS spectra of Na gel (Figure 1), Cs/Na gel (Figure 2) and $\text{Na}_2(5'\text{-GMP})\cdot 7\text{H}_2\text{O}$ (Figure 3).

31P CPMAS of 5-GMPNa2+NaCl (gel)

①



Current Data Parameters
NAME gwelp31
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20010406
Time 17.44
INSTRUM dmx500
PROBHD 5 mm BBI 1H-
PULPROG cp
TD 1024
SOLVENT CDC13
NS 64
DS 0
SWH 50000.000 Hz
FIDRES 48.828125 Hz
AQ 0.0102900 sec
RG 2048
DW 10.000 usec
DE 14.29 usec
TE 300.0 K
D1 5.00000000 sec

===== CHANNEL f1 =====
NUC1 31P
P15 1000.00 usec
PL1 12.00 dB
SF01 202.4100969 MHz

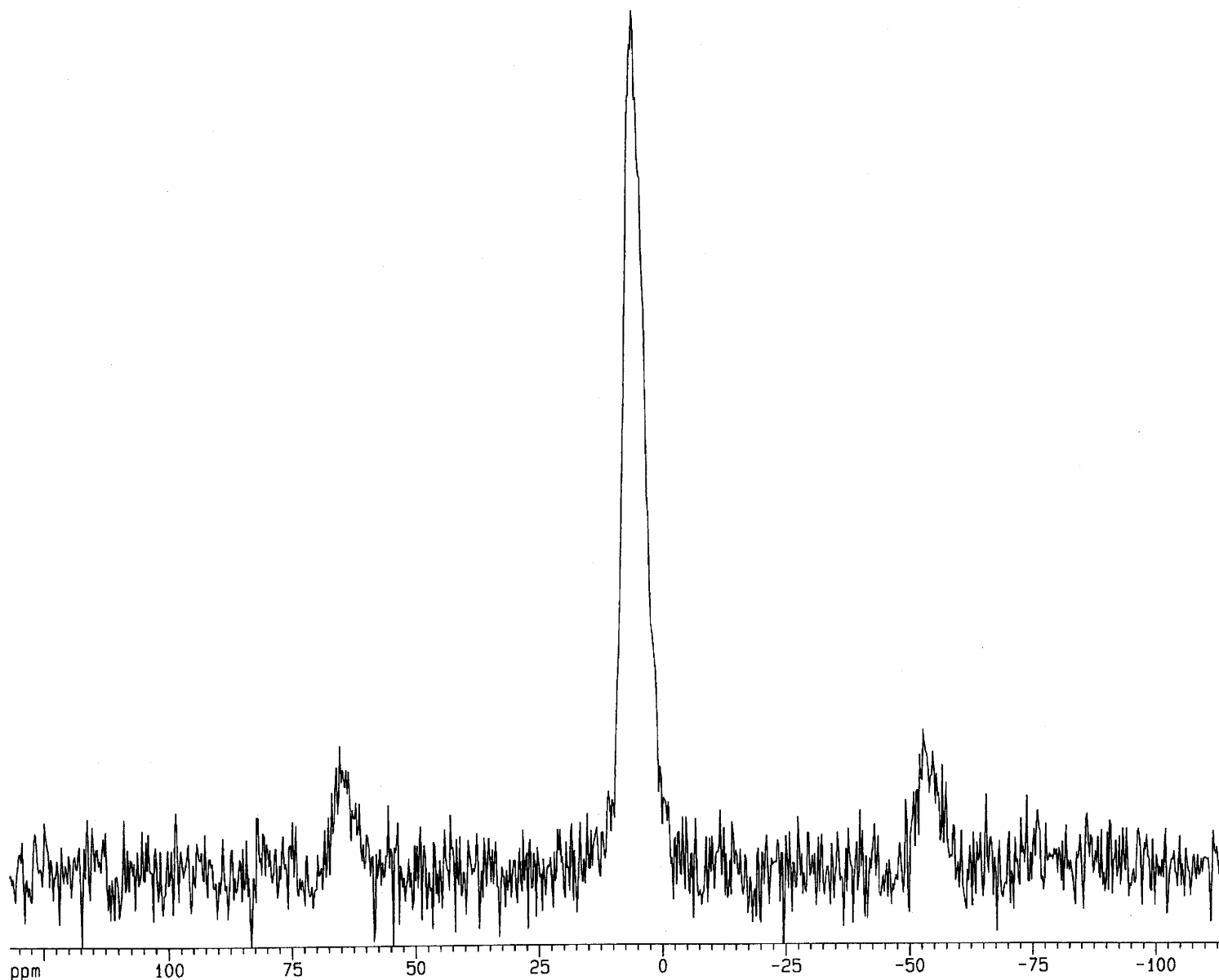
===== CHANNEL f2 =====
NUC2 1H
P3 3.50 usec
PL2 9.55 dB
PL12 12.00 dB
SF02 500.0125000 MHz

F2 - Processing parameters
SI 1024
SF 202.4083711 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 20.00 cm
F1P 132.039 ppm
F1 26725.76 Hz
F2P -114.987 ppm
F2 -23274.24 Hz
PPMCM 12.35127 ppm/cm
HZCM 2500.00000 Hz/cm

p13 CPMAS of 5-GMPNa2+CsCl (3 times wash)

2



Current Data Parameters
NAME gwaip31
EXPNO 8
PROCNO 1

F2 - Acquisition Parameters
Date_ 20010406
Time 18.57
INSTRUM dmx500
PROBHD 5 mm BBI 1H-
PULPROG cp
TD 1024
SOLVENT CDCl3
NS 64
DS 0
SWH 50000.000 Hz
FIDRES 48.828125 Hz
AQ 0.0102900 sec
RG 4096
DW 10.000 usec
DE 14.29 usec
TE 300.0 K
D1 5.00000000 sec

===== CHANNEL f1 =====
NUC1 31P
P15 1000.00 usec
PL1 12.00 dB
SF01 202.4100969 MHz

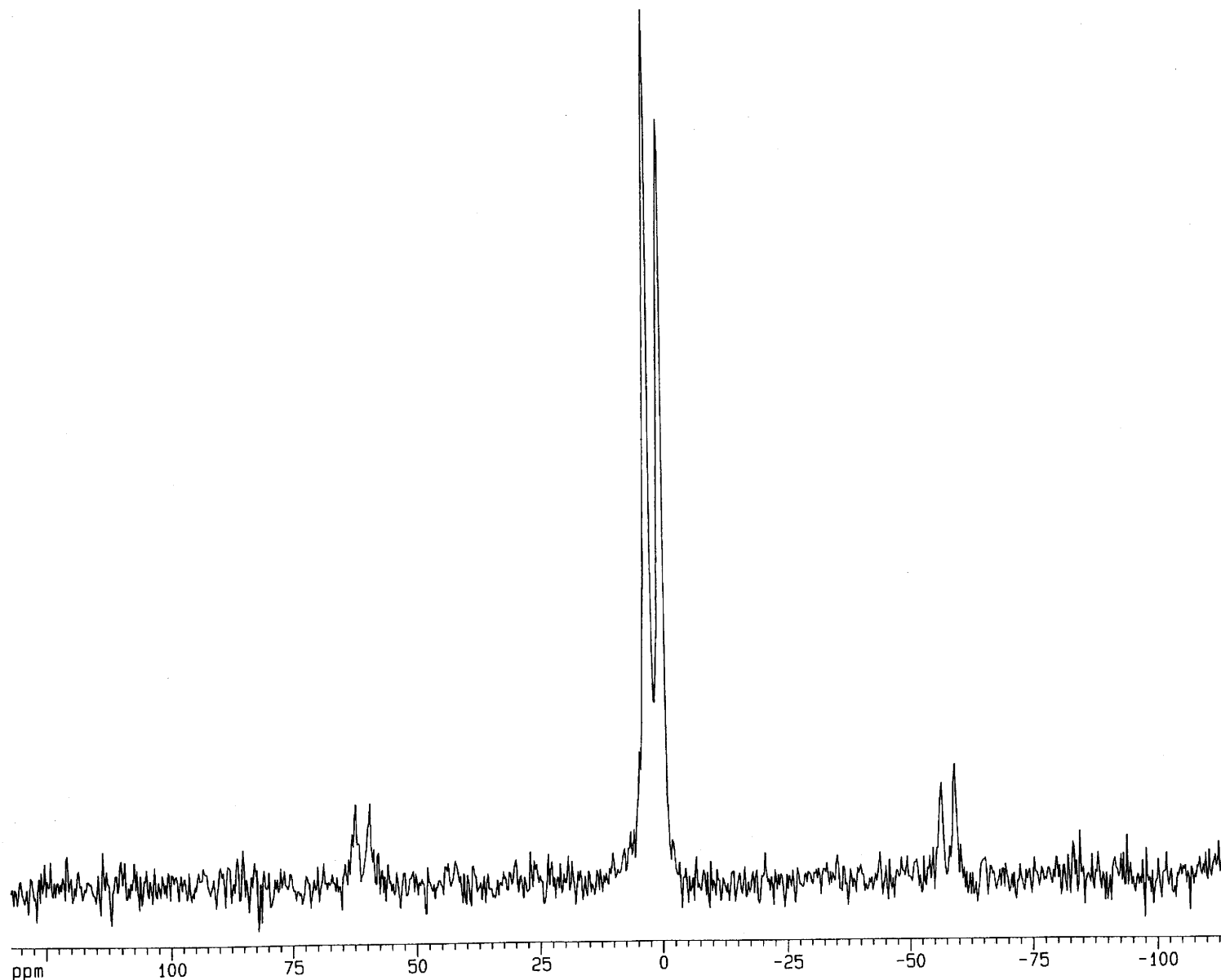
===== CHANNEL f2 =====
NUC2 1H
P3 3.50 usec
PL2 9.55 dB
PL12 12.00 dB
SF02 500.0125000 MHz

F2 - Processing parameters
SI 1024
SF 202.4083711 MHz
WDW EM
SSB 0
LB 5.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 20.00 cm
F1P 132.039 ppm
F1 26725.76 Hz
F2P -114.987 ppm
F2 -23274.24 Hz
PPMCM 12.35127 ppm/cm
HZCM 2500.00000 Hz/cm

31P CPMAS of 5'-GMPNa2hydrate at 12khz

3



Current Data Parameters

NAME gwaip31
EXPNO 18
PROCNO 1

F2 - Acquisition Parameters

Date_ 20010409
Time 13.38
INSTRUM dmx500
PROBHD 5 mm BBI 1H-
PULPROG cp
TD 1024
SOLVENT CDC13
NS 32
DS 0
SWH 50000.000 Hz
FIDRES 48.828125 Hz
AQ 0.0102900 sec
RG 2048
DM 10.000 usec
DE 14.29 usec
TE 300.0 K
D1 5.00000000 sec

===== CHANNEL f1 =====

NUC1 31P
P15 1000.00 usec
PL1 12.00 dB
SFO1 202.4100969 MHz

===== CHANNEL f2 =====

NUC2 1H
P3 3.50 usec
PL2 9.55 dB
PL12 12.00 dB
SFO2 500.0125000 MHz

F2 - Processing parameters

SI 1024
SF 202.4083711 MHz
WDW EM
SSB 0
LB 5.00 Hz
GB 0
PC 1.40

1D NMR plot parameters

CX 20.00 cm
F1P 132.039 ppm
F1 26725.76 Hz
F2P -114.987 ppm
F2 -23274.24 Hz
PPMCM 12.35127 ppm/cm
HZCM 2500.00000 Hz/cm