

Probe efficienc 1H

34.29971703 kHz/W

13C

15.89104315 kHz/W

1.3 mm probe

Spinning 60 kHz

Temp

-15°C

1H

dB W pi v1

Standard

8.5 5 100
100 1.6 312.5

dB W W pi 90 v1

19.1	3.333333333			150
17.9	3.448275862			145
16.7	3.571428571			140
15.5	3.703703704			135
14.4	3.846153846			130
13.3		4		125
12.2	4.166666667			120
11.2	4.347826087			115
10.3	4.545454545			110
9.4	4.761904762			105
8.5		5		100
7.7	5.263157895			95
6.9	5.555555556			90
6.1	5.882352941			85
5.4		6.25		80
4.8	6.666666667			75
4.2	7.142857143			70
3.6	7.692307692			65
3.1	8.333333333			60
2.6	9.090909091			55
2.13		10		50
1.72	11.11111111			45
1.36		12.5		40
1.04	14.28571429			35
0.77	16.66666667			30
0.53		20		25
0.34		25		20
0.19	33.33333333			15
0.09		50		10
0.02		100		5
0.00				0

1.3 mm probe

60 kHz

-15°

13C

dB	W	Pi/2	v1
Standard		27.5	3 83.333333

dB	W	<u>W</u> Pi/2 <u>90</u>	v1
	39.6	2.5	100
	35.7	2.631578947	95
	32.1	2.777777778	90
	28.6	2.941176471	85
	25.3	3.125	80
	22.3	3.333333333	75
	19.4	3.571428571	70
	16.7	3.846153846	65
	15.5	4	62.5
	12.0	4.545454545	55
	9.9	5	50
	8.0	5.555555556	45
	6.3	6.25	40
	4.9	7.142857143	35
	3.6	8.333333333	30
	2.5	10	25
	1.6	12.5	20
	0.9	16.66666667	15
	0.4	25	10
	0.1	50	5
	0.0	#DIV/0!	0

1.3mm probe

60kHz

-15°C

15N

	dB	W	Pi/2	v1	
Standard			20	5	50

	dB	W	Pi/2	v1	
			80.0	2.5	100
			72.2	2.631578947	95
			64.8	2.777777778	90
			57.8	2.941176471	85
			51.2	3.125	80
			45.0	3.333333333	75
			39.2	3.571428571	70
			33.8	3.846153846	65
			28.8	4.166666667	60
			24.2	4.545454545	55
			20.0	5	50
			16.2	5.555555556	45
			12.8	6.25	40
			9.8	7.142857143	35
			7.2	8.333333333	30
			5.0	10	25
			3.2	12.5	20
			1.8	16.66666667	15
			0.8	25	10
			0.2	50	5
			0.0	#DIV/0!	0

Measured U-ALC

c90 | Plw
 2.8 | 35

H90	Plw	method
2.6	8.2	
4.7	8.2	(tAPM15) 40 kHz
5.2	8.2	SPINAL 64 ← 180
25 30	0.077 0.088	SPINAL 64 - V2 ← 180

1.3SB Temp Calib

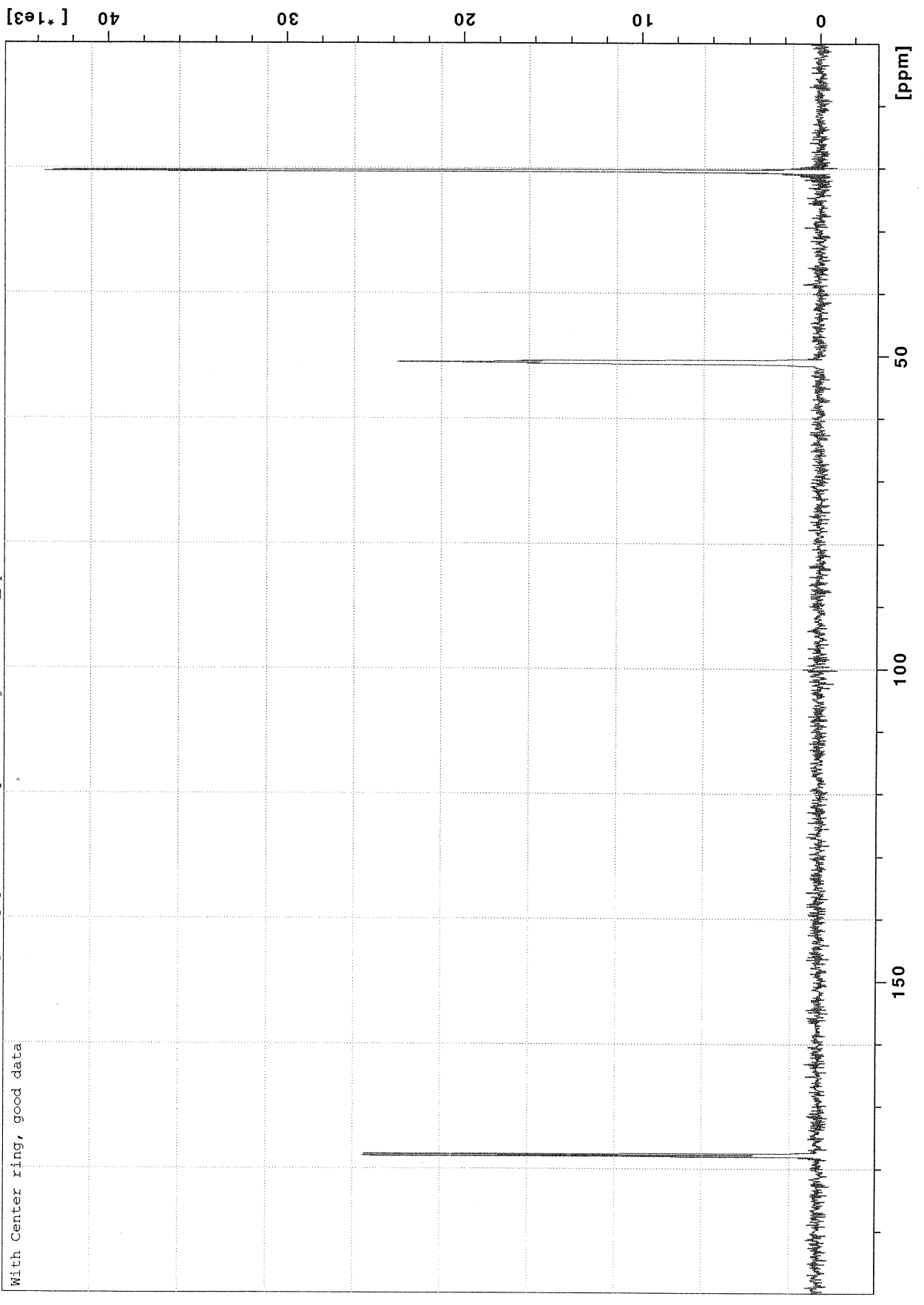
Spin Speed	Temp, Sensor	CS of DSS	CS of H2O	Diff. Of CS	Temp Calc	Diff. Temp.
20	5.0	0.5319	5.4210	4.8891	14.5856	9.5856
20	0.0	0.5330	5.4470	4.9140	12.3423	12.3423
40	0.0	0.5340	5.3360	4.8020	22.4324	22.4324
40	-5.0	0.5360	5.3680	4.8320	19.7297	24.7297
50	-5.0	0.5420	5.2820	4.7400	28.0180	33.0180
50	-10.0	0.5470	5.3100	4.7630	25.9459	35.9459
60	-10.0	0.5560	5.1910	4.6350	37.4775	47.4775
60	-15.0	0.5590	5.2640	4.7050	31.1712	46.1712

Ala/Ada = 1/1

60kHz, -10°C

0114_ccp_DalaAda_60k_m10C 2 1 /opt/topspin3.1/data/yishii/Songlin/201301_ip3SB

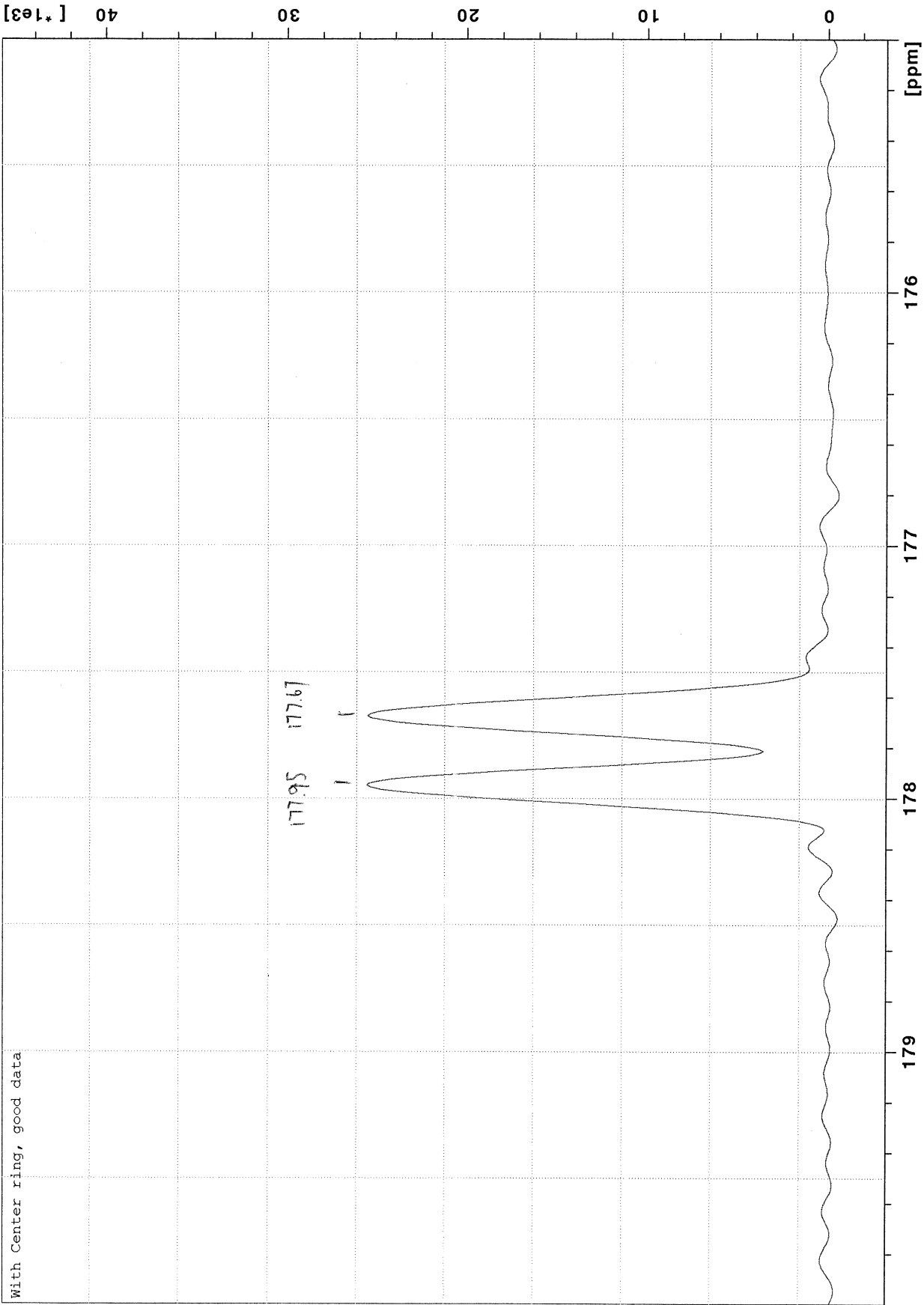
With Center ring, good data



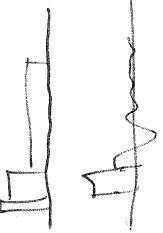
60kHz, -10°C, Ala:Ada = 1:1 CO peaks

0114_ccp_Uala&Ada_60k_ml0C_2_1 /opt/topspin3.1/data/yishii/Songlin/201301_1p3SB

With Center ring, good data

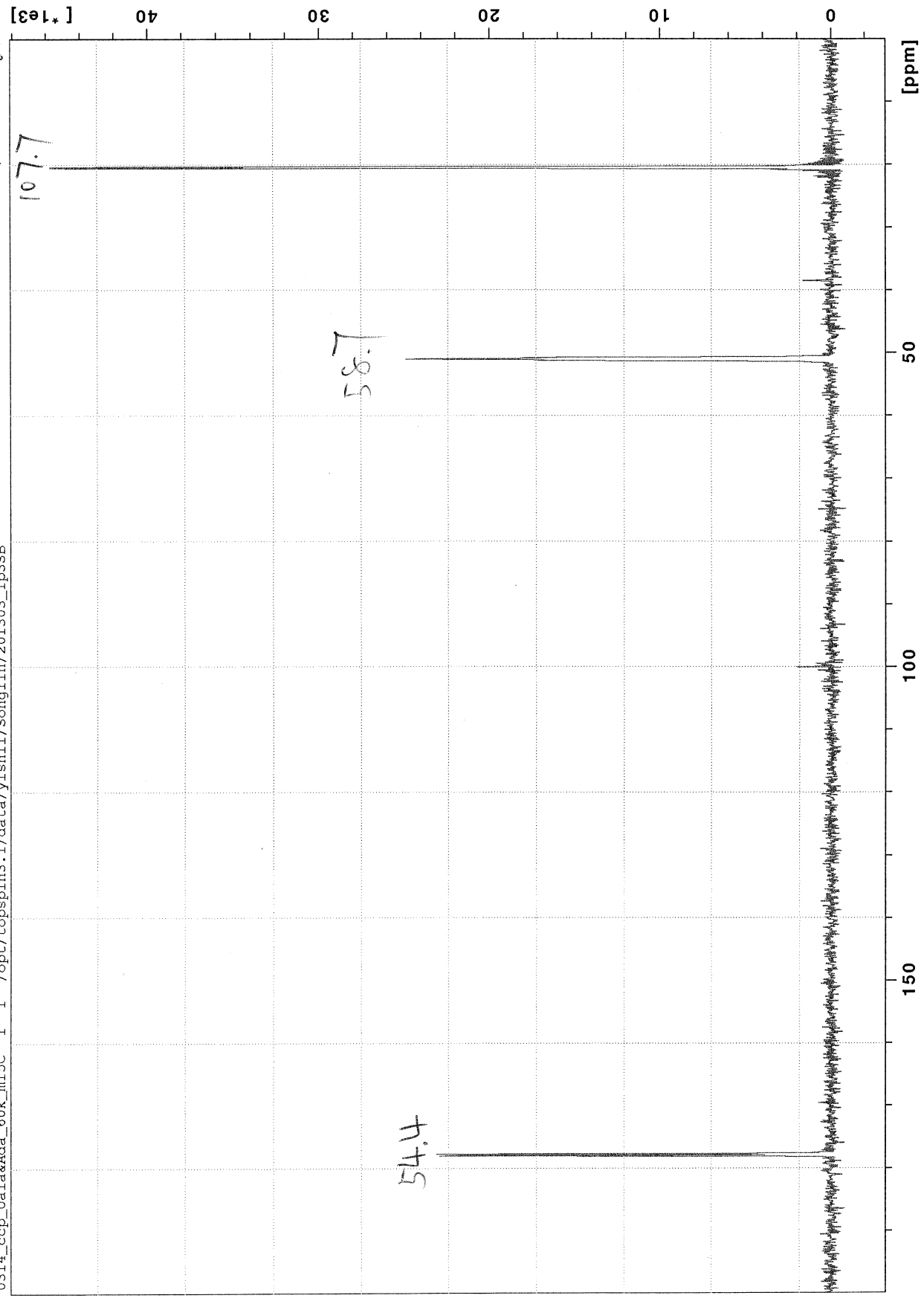


After Opt of CP, L-Ala MAS 60kHz @ -15°C



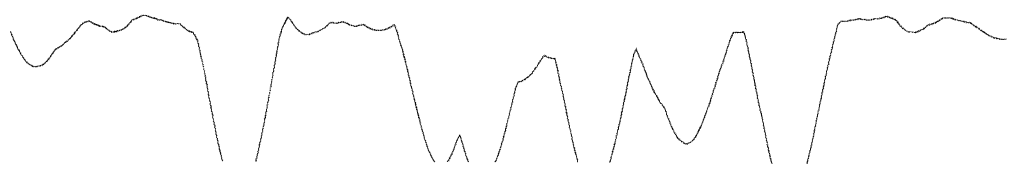
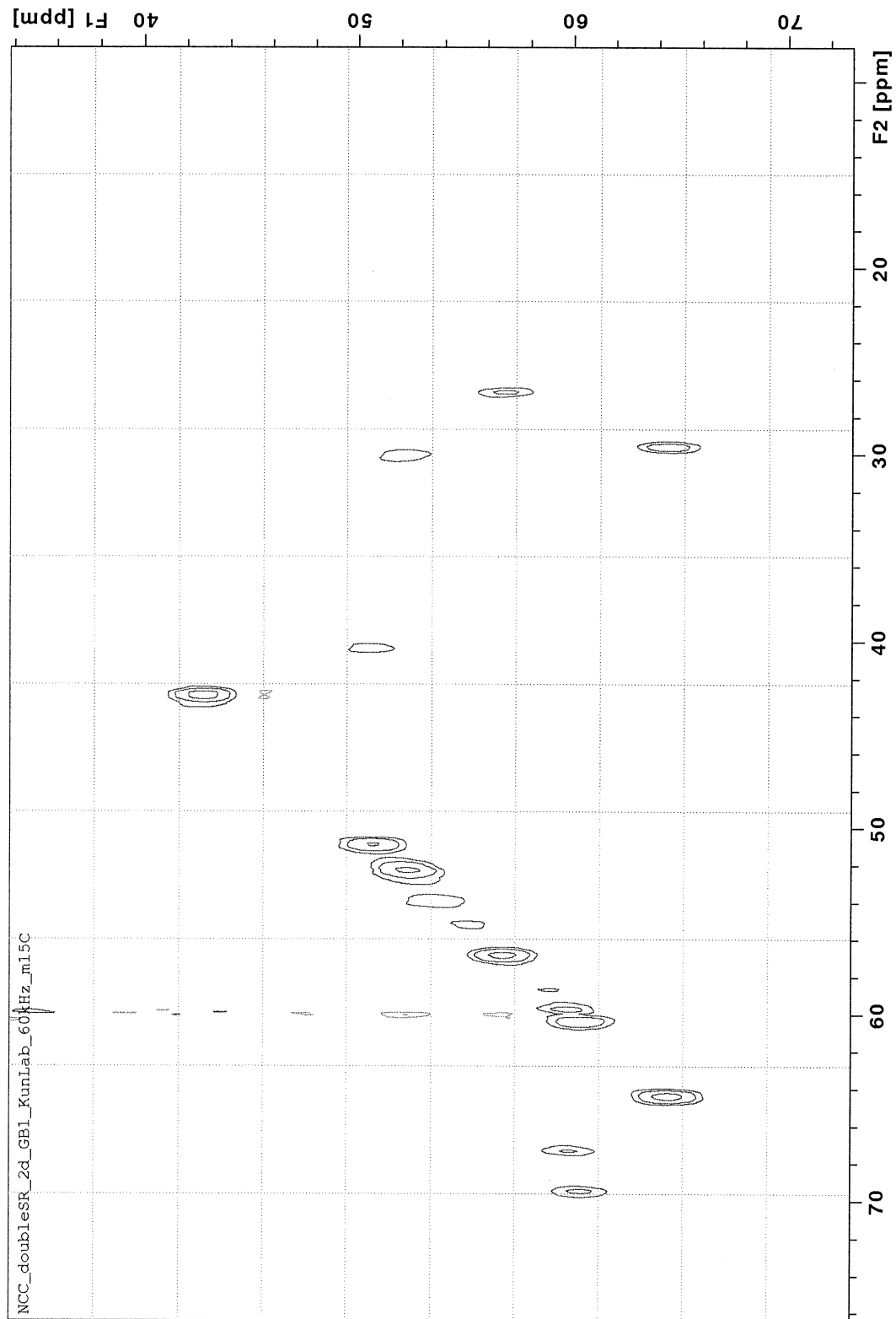
2mg Ala (Na:Ada=1:1)
Acq 30ms
No window, 4scans

0314_ccp_UalaAda_60k_m15C 1 1 /opt/topspin3.1/data/yishii/Songlin/201303_lp3SB



Se(REDOR - N(CaC₆D₂d) (cc2d) 7h2/min

0117_exp_ovn_GB1_KunLab_60kHz_m15C 3 1 /opt/topspin3.1/data/yishii/Songlin/201301_1p3SB



Optimum LP-CP (D1 = 10 sec 4 scans)
 SN CO 79.9 CH 68.5 CH3 139.9 (0 to -100 ppm 50 ppm noise)
 MAS 60.0 kHz T = -15 C at 1200 lph (heater level 3.8%)



Current Data Parameters
 NAME 130401_ccp_Uala&Ada_60k_m15C
 EXPNO 22
 PROCNO 1

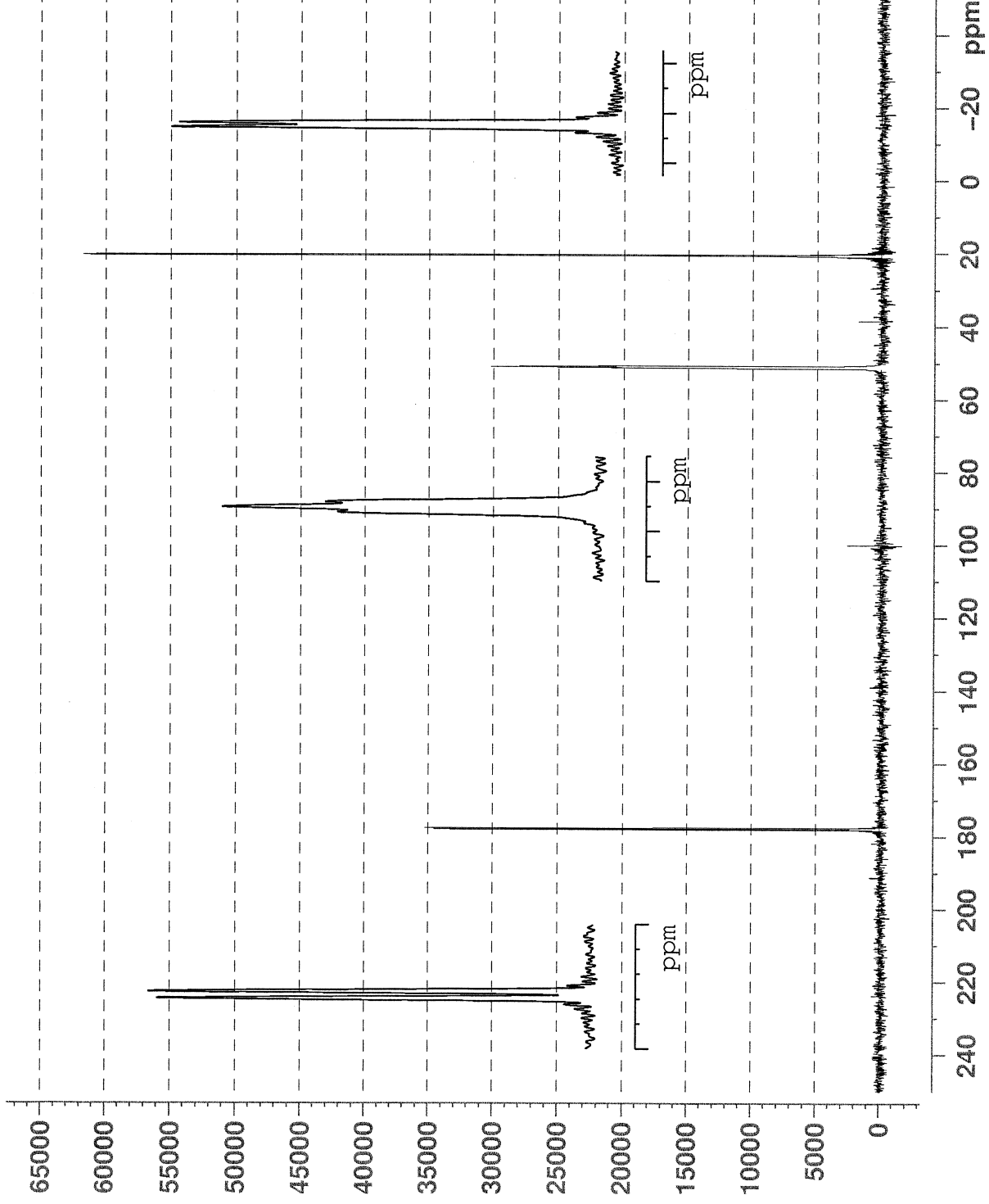
F2 - Acquisition Parameters

Date 20130403
 Time 9.28
 INSTRUM spect
 PROBHD 1.3 mm MAS BB/
 PULPROG cp90v3-y1
 TD 6144
 SOLVENT None
 NS 4
 DS 1
 SWH 100000.000 Hz
 FIDRES 16.276041 Hz
 AQ 0.0307200 sec
 RG 32
 DW 5.000 usec
 DE 6.50 usec
 TE 303.0 K
 CNST11 0
 D1 10.00000000 sec

=====
 CHANNEL f1
 SFO1 188.6542895 MHz
 NUC1 13C
 P1 0.10 usec
 PL1 1500.00 usec
 PLW1 0 W
 PLW2 0 W
 SPNAM[0] Tang_cp_80P
 SFOAL0 0.500
 SPOFFS0 0 Hz
 SPW0 8.500000000 W

=====
 CHANNEL f2
 SFO2 750.1926257 MHz
 NUC2 1H
 P2 1.0000000
 CPDPRG[2] spinal64_v2
 P3 2.50 usec
 PCPD2 50.00 usec
 PLW2 0 W
 PLW12 6.58999990 W
 PLW22 0.06000000 W
 SPNAM[1] CW_1000_100pcent
 SFOAL1 0.500
 SPOFFS1 0 Hz
 SPW1 0.207500000 W

F2 - Processing Parameters
 SI 65536
 SF 188.6354260 MHz
 WDW no
 SSB 0
 LB 0 Hz
 GB 0
 PC 0.20





Current Data Parameters
 NAME 130401_ccp_Vala&Ada_60k_m15c
 EXPNO 21
 PROCNO 1

F2 - Acquisition Parameters

Date_ 20130403
 Time 9.19
 INSTRUM spect
 PROBHD 1.3 mm MAS BB/
 PULPROG cp90v3.y1
 ID 6144
 SOLVENT None
 NS 4
 DS 1
 SWH 10000.000 Hz
 FIDRES 16.276041 Hz
 AQ 0.0307200 sec
 RG 32
 DW 5.000 usec
 DE 6.50 usec
 TE 303.0 K
 CNST11 0
 D1 10.00000000 sec

=====
 CHANNEL f1 =====
 SFO1 188.6542895 MHz
 NUC1 13C
 P1 0.10 usec
 PL1 1500.00 usec
 PLW1 0 W
 PLW2 0 W
 SPNAM[0] Tang_cp_80p
 SFOAL0 0 Hz
 SPOFES0 0 Hz
 SFW0 35.00000000 W

=====
 CHANNEL f2 =====
 SFO2 750.1926257 MHz
 NUC2 1H
 CNST21 1.00000000
 CPDPRG[2] spinal64.v2
 P3 2.50 usec
 PCPD2 50.00 usec
 PLW2 0 W
 PLW12 6.59999990 W
 PLW22 0.06000000 W
 SPNAM[1] cw_1000_100pnt
 SFOAL1 0 Hz
 SPOFES1 0 Hz
 SFW1 12.00000000 W

F2 - Processing parameters
 S1 65536
 SF 188.6354260 MHz
 WDW no
 SSB 0
 LB 0 Hz
 GB 0
 PC 0.20

