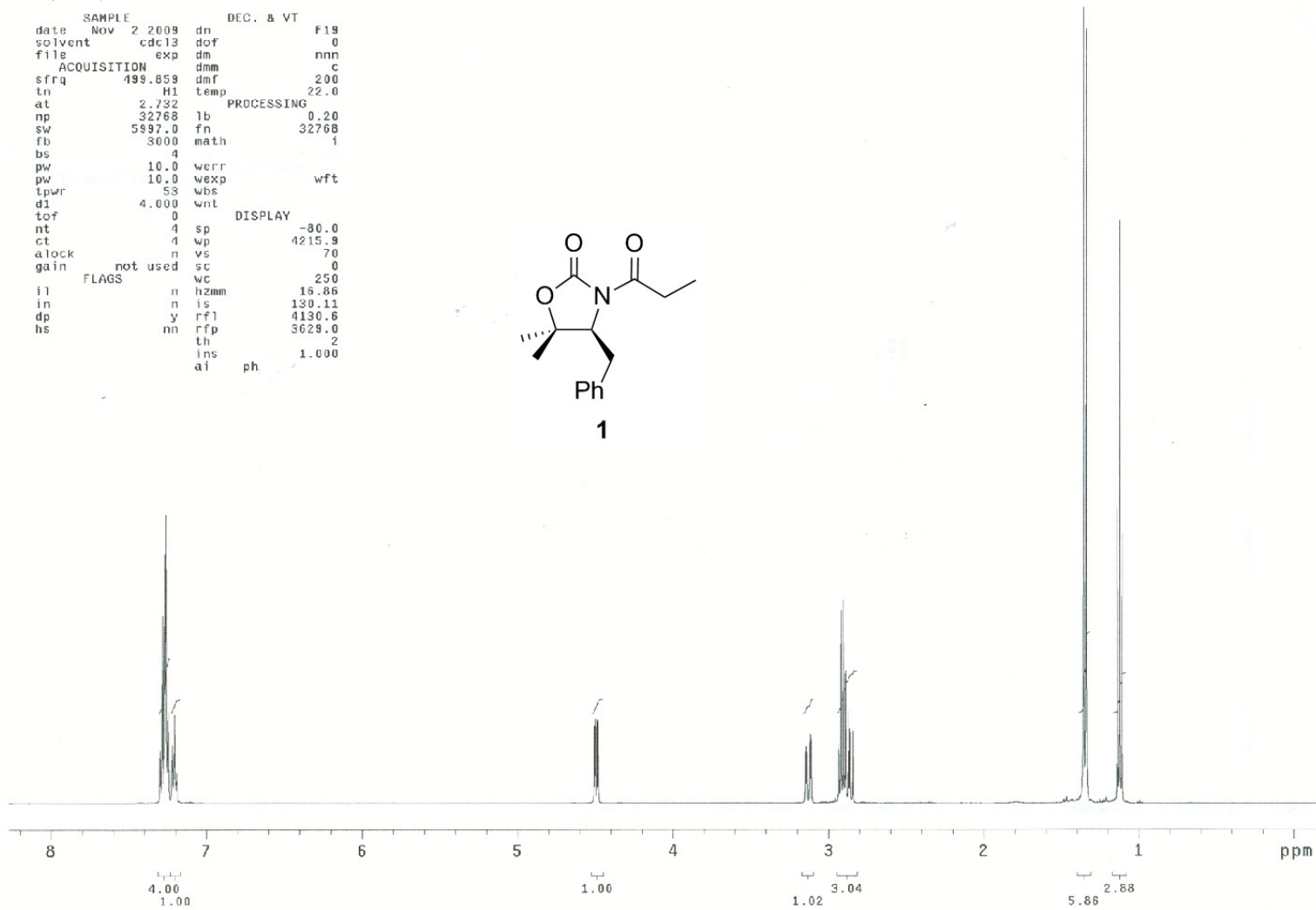
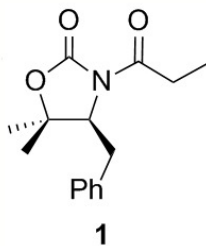


snb-1-142-a

exp1 s2pu1

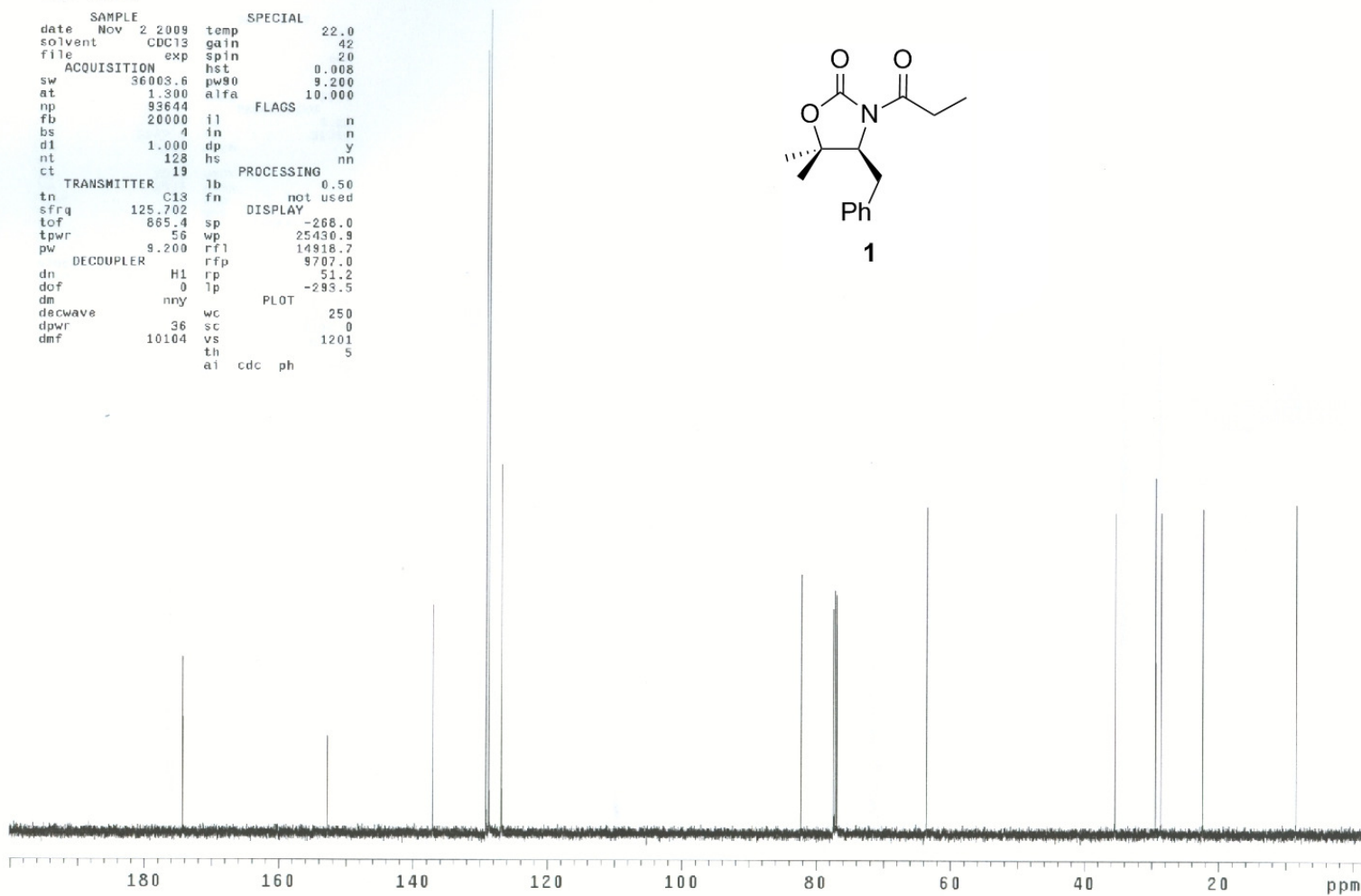
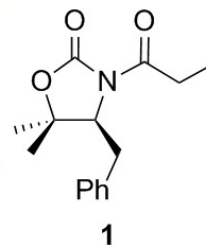
SAMPLE		DEC. & VT	
date	Nov 2 2009	dn	F19
solvent	cdc13	dof	0
file	exp	dm	nnn
ACQUISITION			
sfrq	499.859	dmm	c
tn	H1	dmf	200
at	2.732	temp	22.0
PROCESSING			
np	32768	lb	0.20
sw	5897.0	fn	32768
fb	3000	math	1
bs	4		
pw	10.0	werr	
pw	10.0	wexp	wft
tpwr	53	wbs	
d1	4.000	wnt	
tof	0		
DISPLAY			
nt	4	sp	-80.0
ct	4	wp	4215.9
alock	n	vs	70
gain	not used	sc	0
FLAGS			
		wc	250
il	n	hzmm	16.86
in	n	ls	130.11
dp	y	rfl	4130.6
hs	nn	rff	5629.0
		th	2
		ins	1.000
	ai	ph	



snb-2-078-a-13C

exp1 CARBON

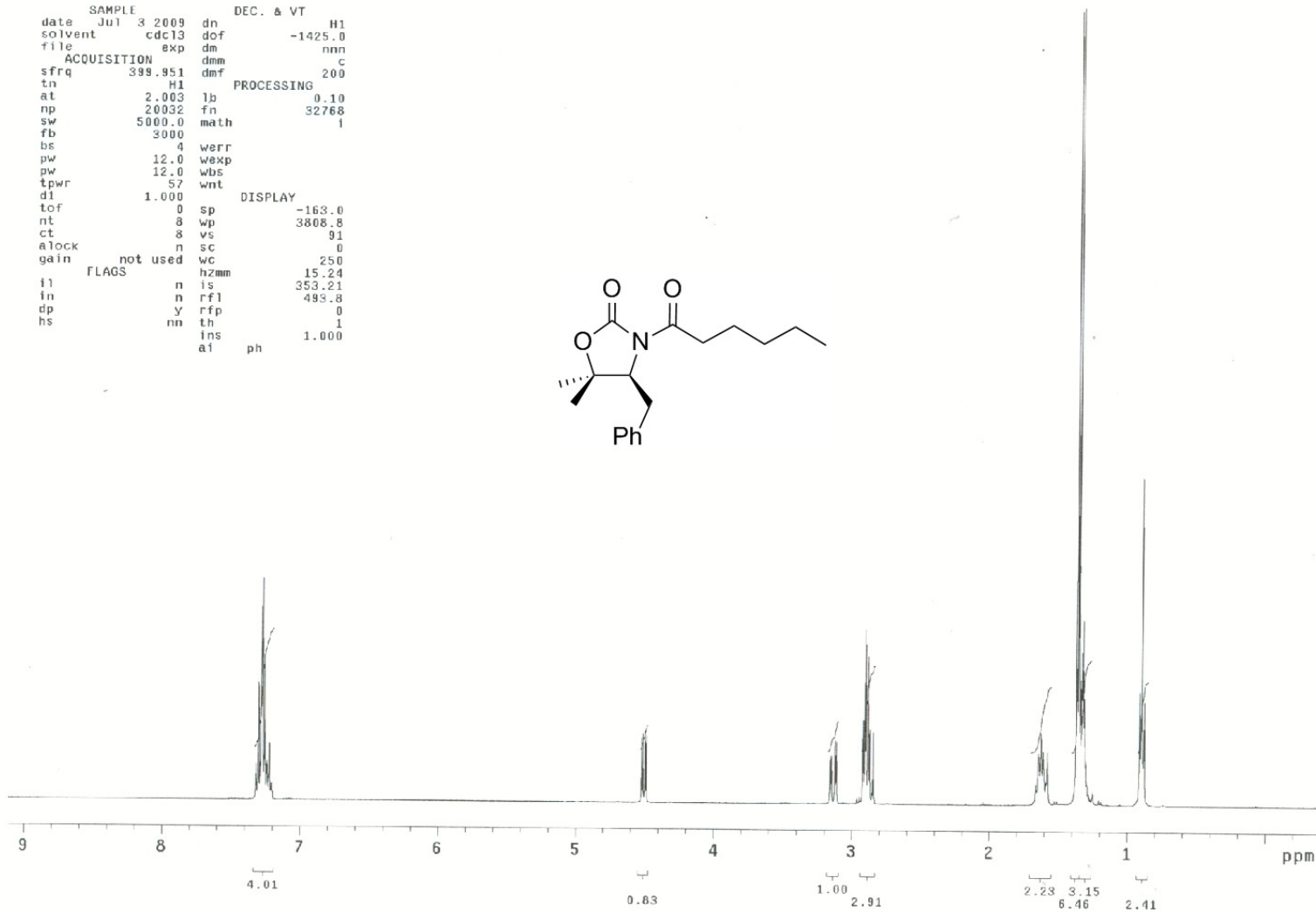
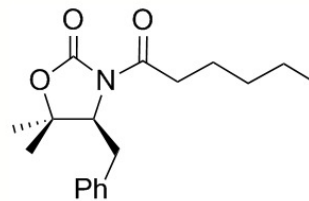
SAMPLE		SPECIAL	
date	Nov 2, 2009	temp	22.0
solvent	CDC13	gain	42
file	exp	spin	20
ACQUISITION		SPECIAL	
sw	36003.6	hst	0.008
at	1.300	pw90	9.200
np	93644	alfa	10.000
fb	20000	FLAGS	
bs	4	il	n
d1	1.000	in	n
nt	128	dp	y
ct	19	hs	nn
TRANSMITTER		PROCESSING	
tn	C13	fb	0.50
sfrq	125.702	fn	not used
tof	865.4	DISPLAY	
tpwr	56	sp	-268.0
pw	9.200	wp	25430.9
DECOUPLER		rfl	14918.7
dn	H1	rfp	9707.0
dof	0	rp	51.2
dm	nny	lp	-293.5
decwave		PLOT	
dpwr	36	wc	250
dmf	10104	sc	0
		vs	1201
		th	5
		ai	cdc ph



snb-1-232-a

exp1 s2pu1

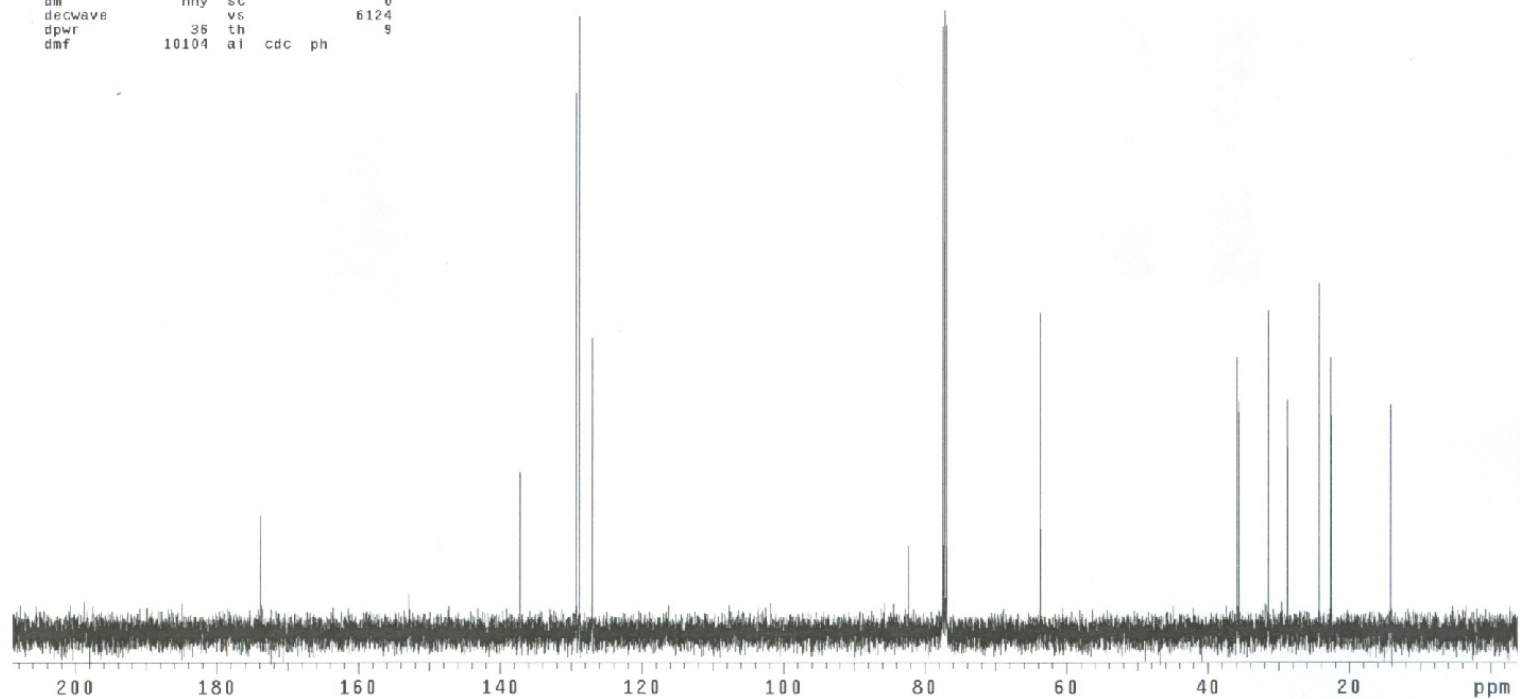
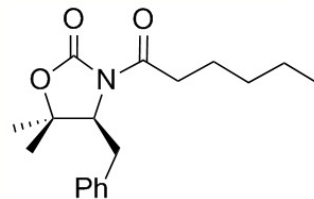
SAMPLE		DEC. & VT	
date	Jul 3 2009	dn	H1
solvent	cdcl3	dof	-1425.0
file	exp	dm	nnn
ACQUISITION		PROCESSING	
sfrq	399.951	dmm	c
tn	H1	dmf	200
at	2.003	lb	0.10
np	20032	fn	32768
sw	5000.0	math	1
fb	3000		
bs	4	werr	
pw	12.0	wexp	
pw	12.0	wbs	
tpwr	57	wnt	
d1	1.000	DISPLAY	
tof	0	sp	-163.0
nt	8	wp	3808.8
ct	8	vs	91
alock	n	sc	0
gain	not used	wc	250
FLAGS		hzmm	15.24
fl	n	is	353.21
in	n	rfl	495.8
dp	y	rff	0
hs	nn	th	1
		ins	1.000
		ai	ph



snb-1-232-a-13C

exp1 CARBON

SAMPLE		SPECIAL	
date	Jul 6 2009	temp	22.0
solvent	CDCl3	gain	42
file	/home/Zakaria~	spin	20
n/beamont/snb-1-2~		hst	0.008
32-a-13c.500.fid		pw90	9.200
ACQUISITION	alpha	alpha	10.000
sw	36003.6	FLAGS	
at	1.300	il	n
np	93644	in	n
fb	20000	dp	y
bs	4	hs	nn
d1	1.000	PROCESSING	
nt	92	lb	0.50
ct	92	fn	not used
TRANSMITTER	C13	DISPLAY	
tn	C13	sp	-493.2
sfrq	125.702	wp	26741.2
tof	865.4	rfl	14905.5
tpwr	56	rfp	9707.0
pw	9.200	rp	6.0
DECOUPLER	H1	lp	-257.6
dn	H1	PLOT	
dof	0	wc	250
dm	nyy	sc	0
decwave		vs	6124
dpwr	35	th	9
dmf	10104	ai	cdc ph

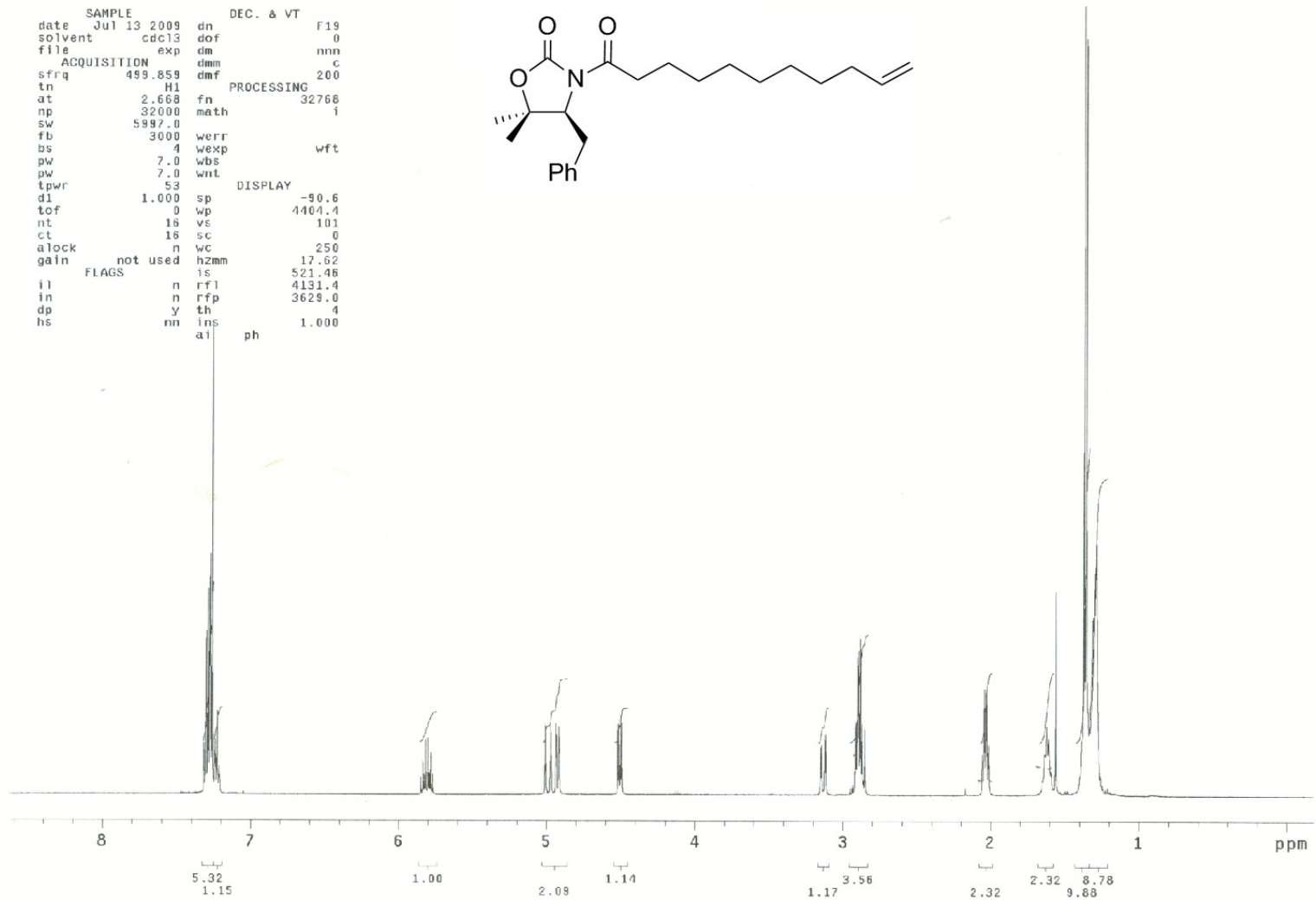
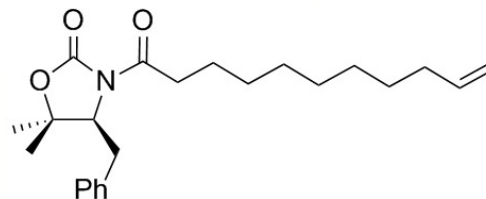




snb-1-264-a

exp1 s2pu1

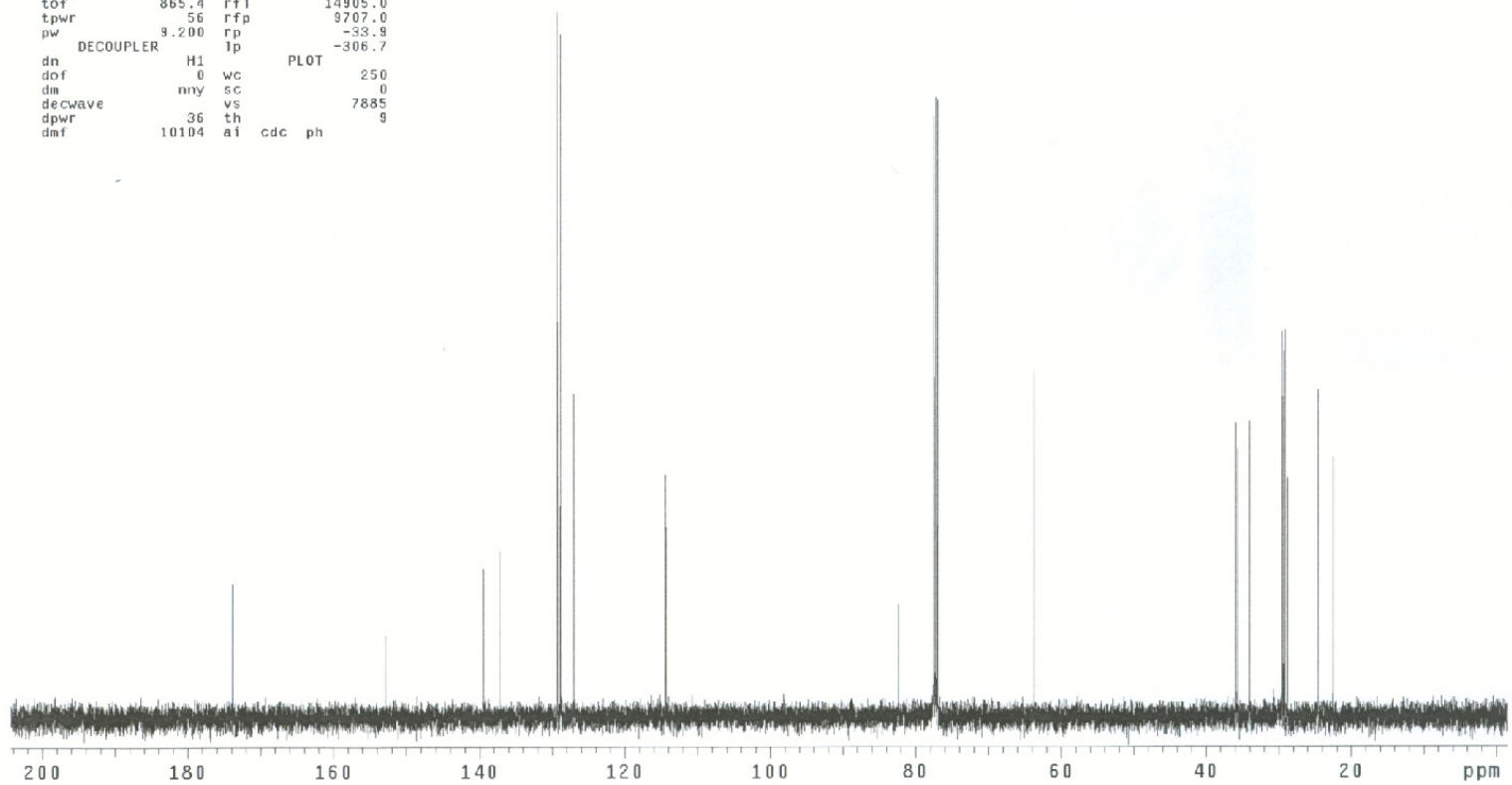
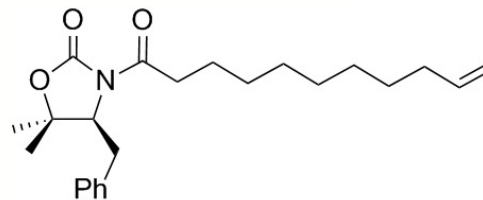
SAMPLE		DEC. & VT	
date	Jul 13 2009	dn	F19
solvent	cdcl3	dof	0
file	exp	dm	nnn
ACQUISITION		dmm	c
sfrq	499.859	dmf	200
tn	H1	PROCESSING	
at	2.668	fn	32768
np	32000	math	i
sw	5997.0		
fb	3000	werr	
bs	4	wexp	wft
pw	7.0	wbs	
pw	7.0	wnt	
tpwr	53	DISPLAY	
d1	1.000	sp	-90.6
tof	0	wp	4404.4
nt	16	vc	101
ct	16	sc	0
alock	n	wc	250
gain	not used	hzmm	17.62
FLAGS		is	521.46
il	n	rfl	4131.4
in	n	rfp	3629.0
dp	y	th	4
hs	nn	ins	1.000
	ai	ph	



snb-1-252-a-13c

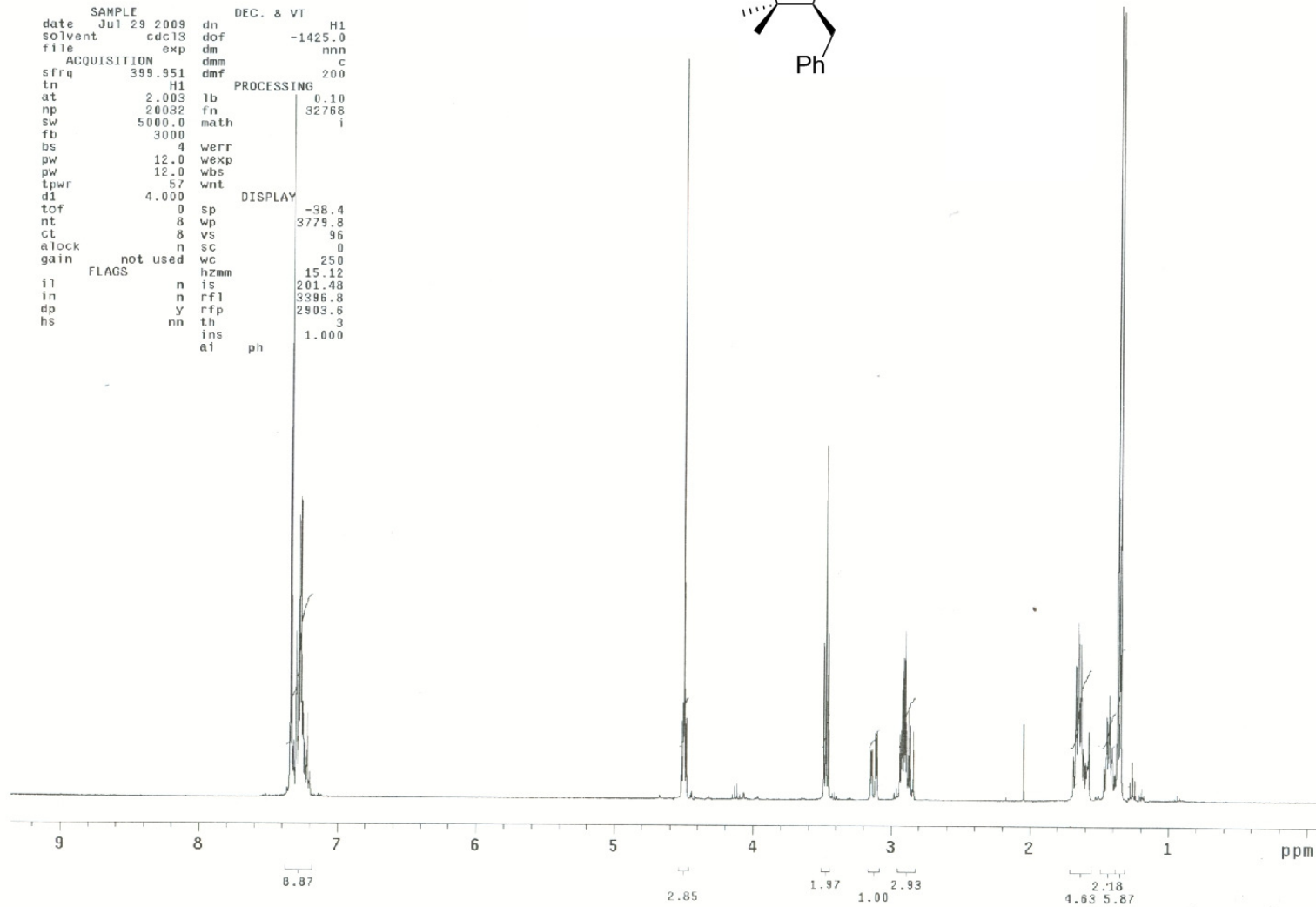
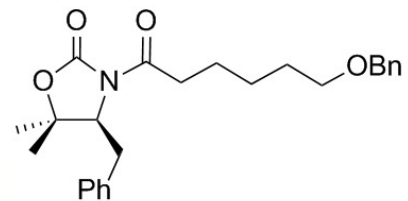
exp1 CARBON

SAMPLE		SPECIAL	
date	Jul 14 2009	temp	22.0
solvent	CDCl3	gain	42
file	/home/zakaria-	spin	20
n/beaumont/snb-1-2-		hst	0.008
64-a-13c.500.fid		pw90	9.200
ACQUISITION		alfa	10.000
sw	36003.6	FLAGS	
at	1.300	il	n
np	93644	in	n
fb	20000	dp	y
bs	4	hs	nn
d1	1.000	PROCESSING	
nt	192	lb	0.50
ct	192	fn	not used
TRANSMITTER		DISPLAY	
tn	C13	sp	-194.9
sfrq	125.702	wp	25877.6
tof	865.4	rfl	14905.0
tpwr	56	rfp	9707.0
pw	9.200	rp	-33.9
DECOUPLER		lp	-306.7
dn	H1	PLOT	
dof	0	wc	250
dm	nnn	sc	0
decwave		vs	7885
dpwr	36	th	9
dml	10104	ai	cdc ph



snb-1-287-a  
exp1 s2pu1

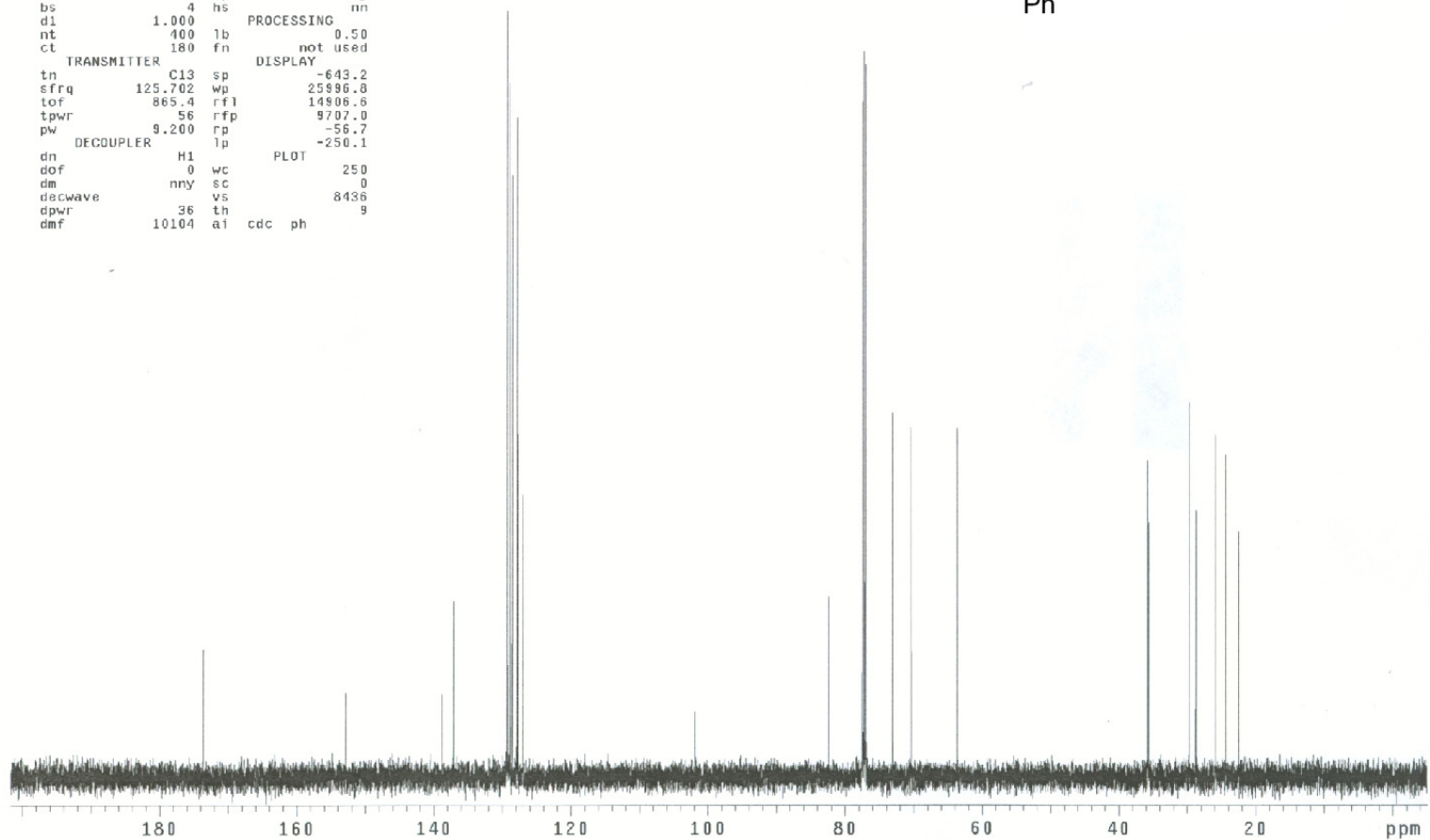
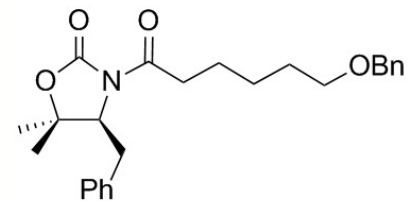
SAMPLE		DEC. & VT	
date	Jul 29 2009	dn	H1
solvent	cdc13	dof	-1425.0
file	exp	dmm	nnn
ACQUISITION		dmm	c
sfrq	399.951	dmf	200
tn	H1	PROCESSING	
at	2.003	lb	0.10
np	20032	fn	32768
sw	5000.0	math	i
fb	3000	DISPLAY	
bs	4	werr	-38.4
pw	12.0	wexp	3779.8
pw	12.0	wbs	96
tpwr	57	wnt	0
d1	4.000	wc	250
tof	0	hzmm	15.12
nt	8	is	201.48
ct	8	rfl	3396.8
alock	n	rfl	2903.6
gain	not used	th	3
FLAGS		ins	1.000
il	n	ai	ph
in	n		
dp	y		
hs	nn		



snb-1-287-a-13C

exp1 CARBON

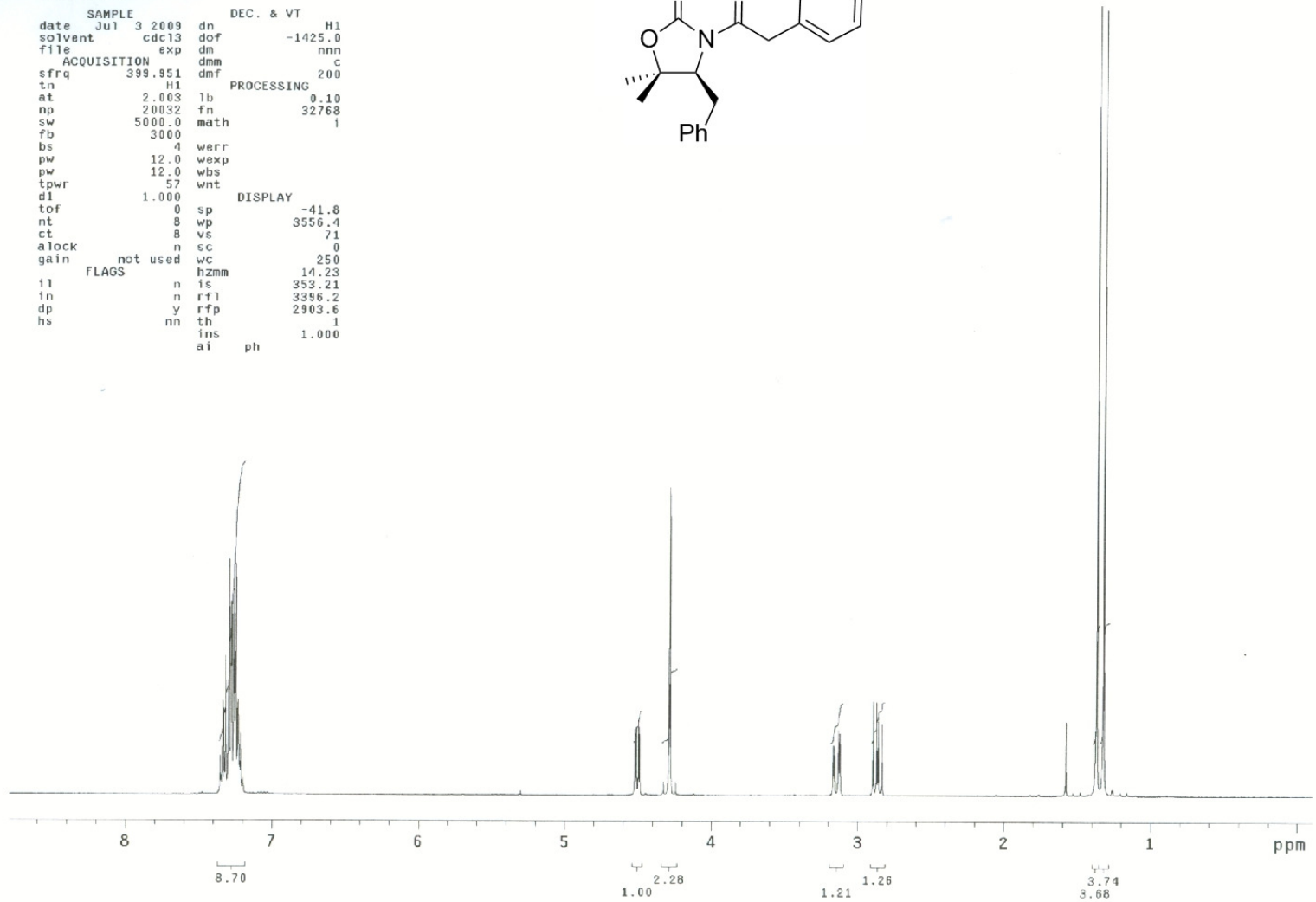
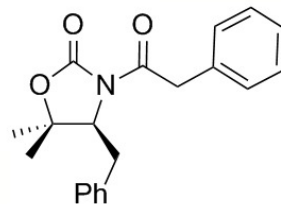
SAMPLE		SPECIAL	
date	Aug 3 2009	temp	22.0
solvent	CDC13	gain	42
file	/home/Zakaria~	spin	20
n/beaumont/snb-1-2~		hst	0.008
87-a-13C.500.fid		pw90	9.200
ACQUISITION		alfa	10.000
sw	36003.6	FLAGS	
at	1.300	il	n
np	93644	in	n
fb	20000	dp	y
bs	4	hs	nn
d1	1.000	PROCESSING	
nt	400	lb	0.50
ct	180	fn	not used
TRANSMITTER	C13	DISPLAY	
tn		sp	-643.2
sfrq	125.702	wp	25996.8
tof	865.4	rfl	14906.6
tpwr	56	rfp	9707.0
pw	9.200	rp	-56.7
DECOUPLER		lp	-250.1
dn	H1	PLOT	
dof	0	wc	250
dm	nnn	sc	0
decwave		vs	8436
dpwr	36	th	9
dmf	10104	ai	cdc ph



```

snb-1-248-a
exp1 s2pu1
SAMPLE
date Jul 3 2009 dn H1
solvent cdc13 dof -1425.0
file exp dm nnn
ACQUISITION dmm c
sfrq 399.951 dmf 200
tn H1 PROCESSING
at 2.003 lb 0.10
np 20032 fn 32768
sw 5000.0 math i
fb 3000
bs 4 werr
pw 12.0 wexp
pw 12.0 wbs
tpwr 57 wnt
d1 1.000 DISPLAY
tof 0 sp -41.8
nt 8 wp 3556.4
ct 8 vs 71
alock n sc 0
gain not used wc 250
FLAGS hzmm 14.23
il n is 353.21
in n rfl 3396.2
dp y rfp 2903.6
hs mn th 1
ai ph 1.000

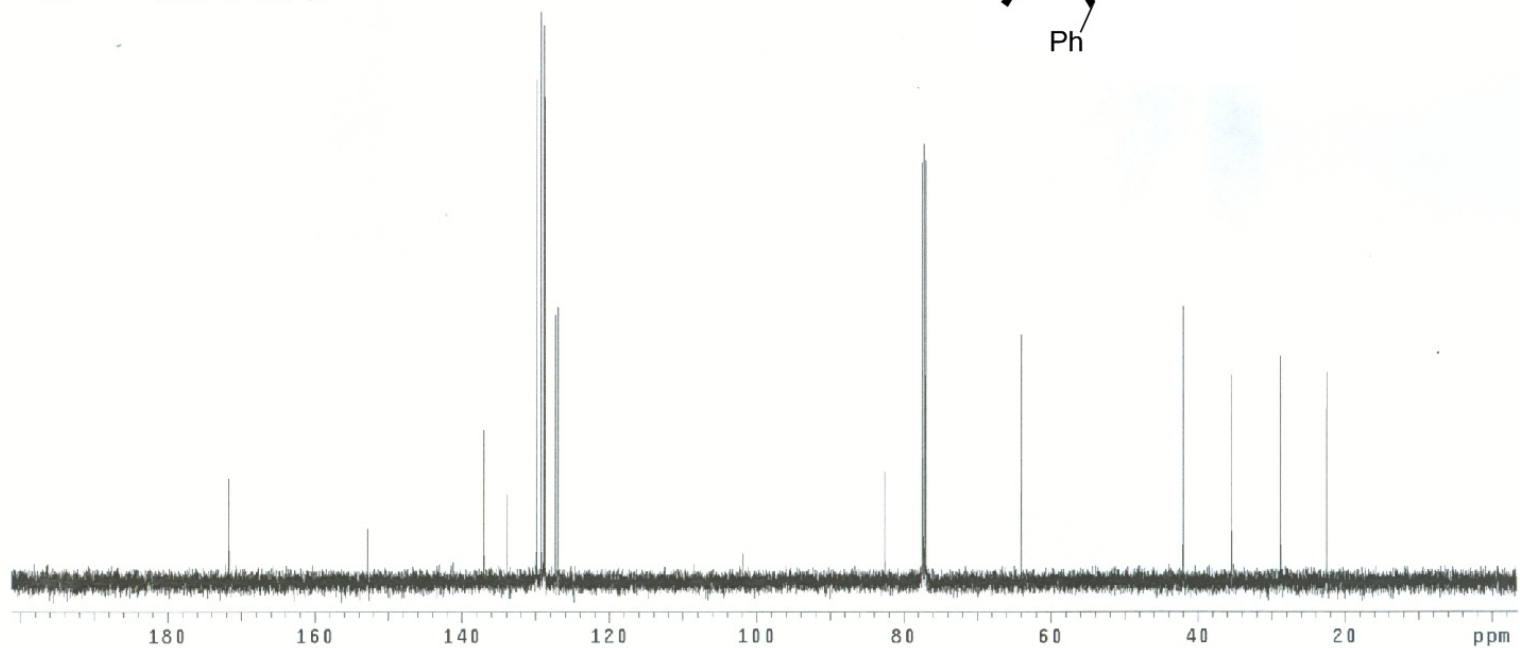
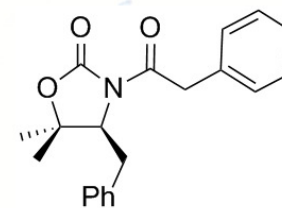
```



snb-1-249-a-13c

exp1 CARBON

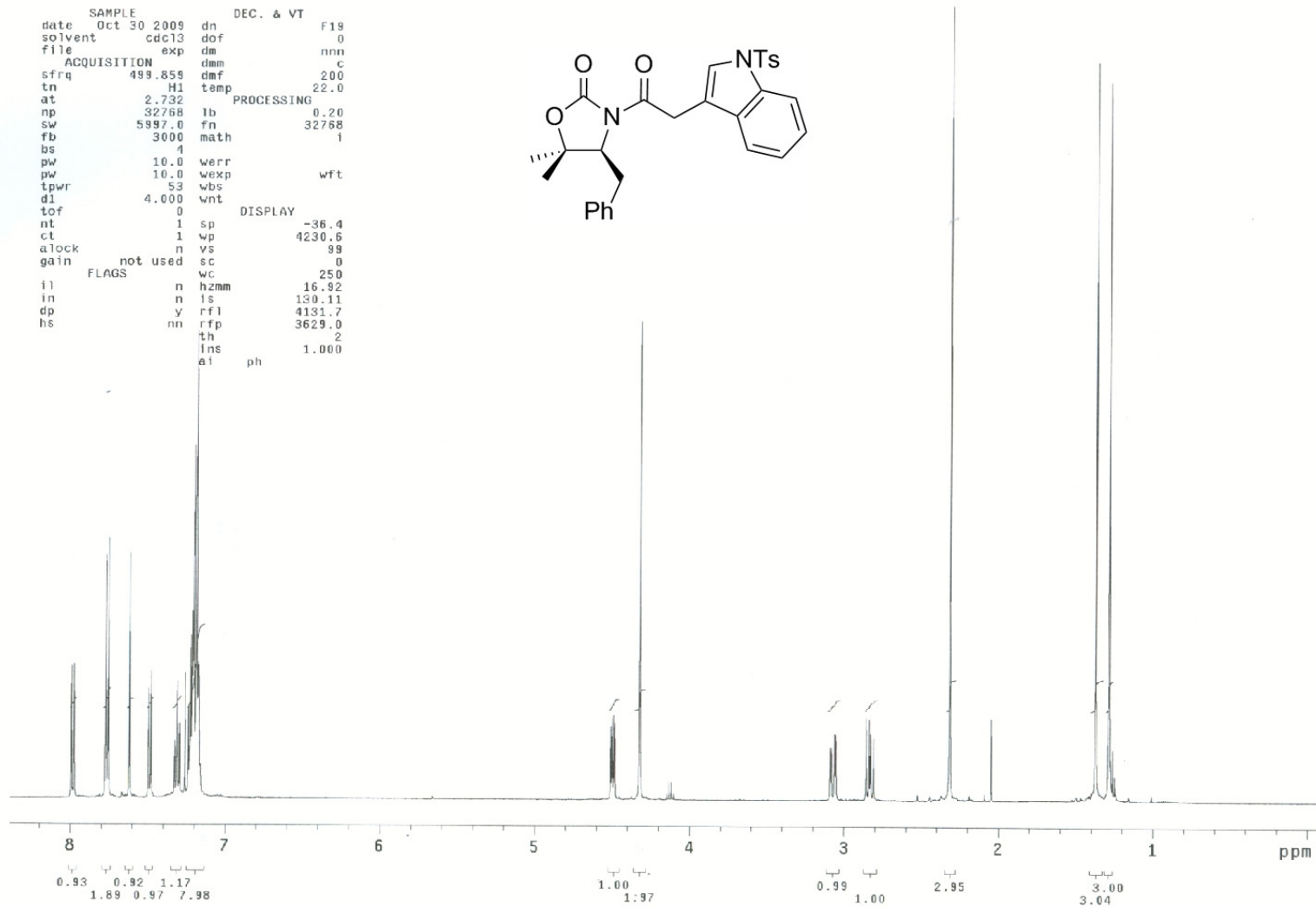
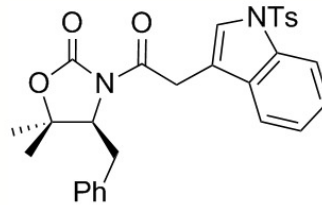
SAMPLE		SPECIAL	
date	Jul 6 2009	temp	22.0
solvent	CDC13	gain	42
file	/home/Zakaria	spin	20
n/beaumont/snb-1-2		nst	0.008
49-a-13c.500.fid		pw90	9.200
ACQUISITION		ALFA	
sw	36003.6	FLACS	10.000
at	1.300	fl	n
np	93644	fn	n
fb	20000	dp	y
bs	4	hs	nn
dl	1.000	PROCESSING	
nt	92	lb	0.50
ct	92	fn	not used
TRANSMITTER		DISPLAY	
tn	C13	sp	-435.5
sfrq	125.702	wp	25728.7
tof	865.4	rfl	14907.2
tpwr	56	rfp	9707.0
pw	9.200	rp	8.8
DECOUPLER		PL0T	
dn	H1	wc	250
dof	0	sc	0
dm	nyy	vs	3972
decwave		th	7
dpwr	36	ai	cdc ph
dmf	10104		



snb-1-297-a

exp1 s2pu1

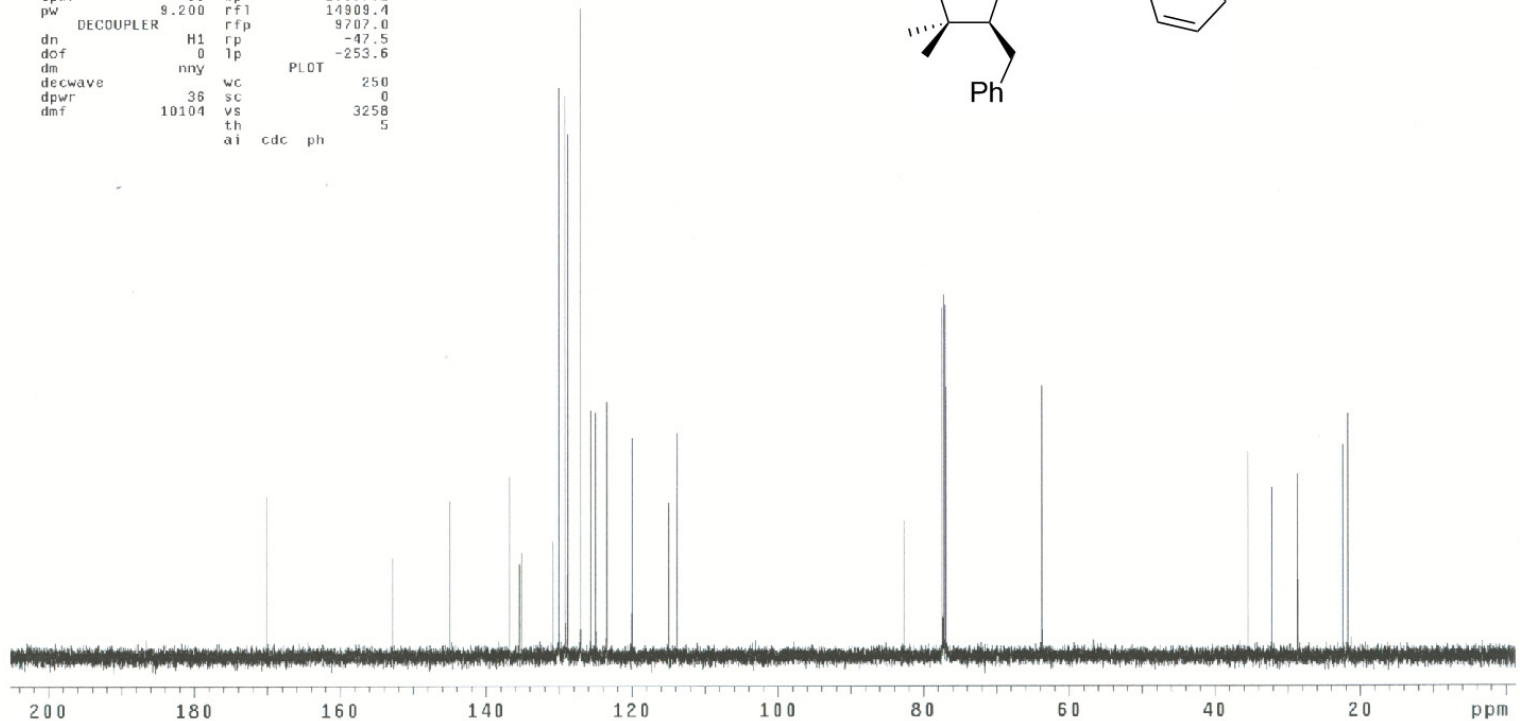
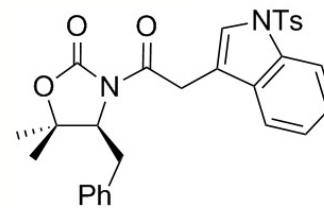
date	Oct 30 2009	dn	F19
solvent	cdc13	dof	0
file	exp	dmm	nnn
ACQUISITION		dmm	c
sfrq	499.859	dmf	200
tn	H1	temp	22.0
at	2.732	PROCESSING	
np	32768	lb	0.20
sw	5997.0	fn	32768
fb	3000	math	1
bs	4		
pw	10.0	werr	
pw	10.0	wexp	wft
tpwr	53	wbs	
d1	4.000	wnt	
tof	0	DISPLAY	
nt	1	sp	-36.4
ct	1	wp	4230.6
alock	n	vs	89
gain	not used	sc	0
FLAGS		wc	250
il	n	hzmm	16.92
in	n	is	130.11
dp	y	rfl	4131.7
hs	nn	rffp	3629.0
		th	2
		ins	1.000
		at	ph



snb-1-297-a-13C

exp1 CARBON

SAMPLE		SPECIAL	
date	Oct 30 2009	temp	22.0
solvent	CDCl3	gain	42
file	exp	spin	20
ACQUISITION		SPECIAL	
sw	36003.6	hst	0.008
at	1.300	pw90	9.200
np	93644	alfa	10.000
FLAGS		PROCESSING	
fb	20000	il	n
bs	4	in	n
d1	1.000	dp	y
nt	512	hs	nn
ct	84	hs	nn
TRANSMITTER		PROCESSING	
tn	C13	lb	0.50
sfrq	125.702	fn	not used
tof	865.4	sp	-169.6
tpwr	56	wp	25987.1
pw	9.200	rfl	14909.4
DECOUPLER		PLLOT	
dn	H1	rpp	9707.0
dof	0	rp	-47.5
dm	nny	lp	-253.6
decwave		wc	250
dpwr	36	sc	0
dmf	10104	vs	3258
		th	5
		ai	cdc ph

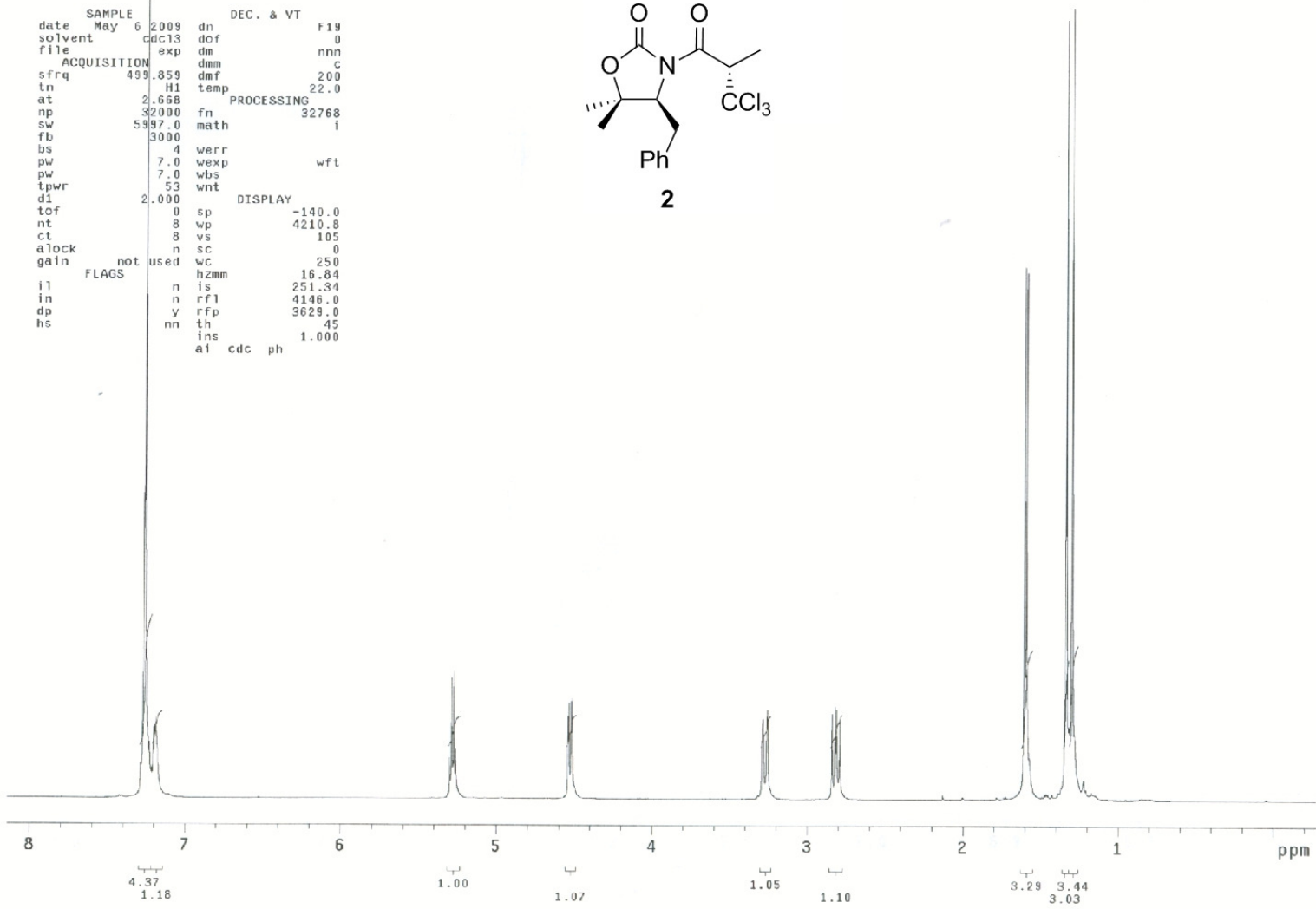
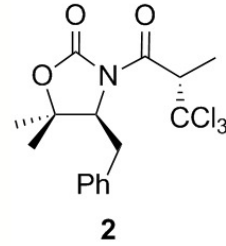




```

snb-1-157-a
exp1 s2pul
SAMPLE
date May 6 2008 dn DEC. & VT F19
solvent cdc13 dof 0
file exp dm nnn
ACQUISITION dmm c
sfrq 499.859 dmf 200
tn H1 temp 22.0
at 2.668 PROCESSING
np 32000 fn 32768
sw 5997.0 math i
fb 3000
bs 4 werr
pw 7.0 wexp wft
tpwr 7.0 wbs
d1 53 wnt
d1 2.000 DISPLAY
tof 0 sp -140.0
nt 8 wp 4210.8
ct 8 vs 105
alock n sc 0
gain not used wc 250
FLAGS hzmm 16.84
il n is 251.34
in n rfl 4148.0
dp y rfp 3629.0
hs mn th 45
ins 1.000
at cdc ph

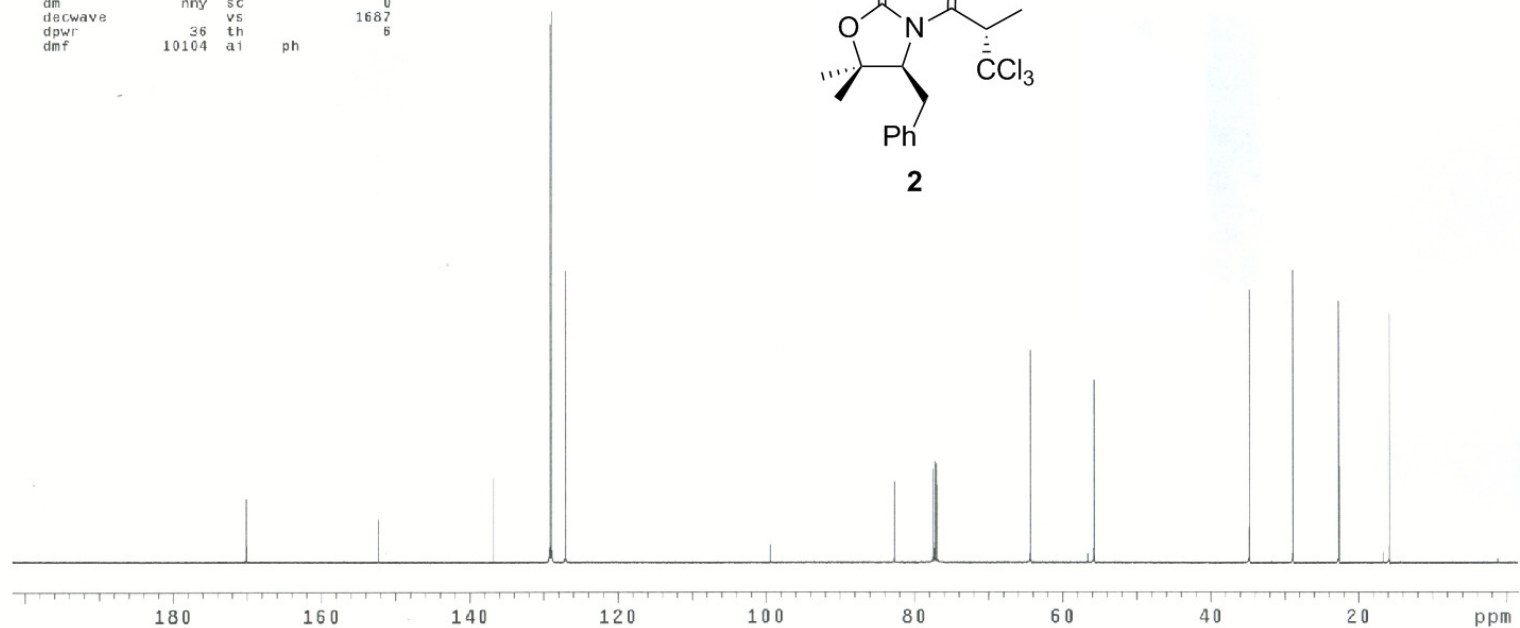
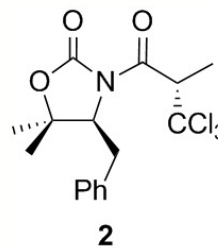
```



## STANDARD CARBON PARAMETERS

exp1 CARBON

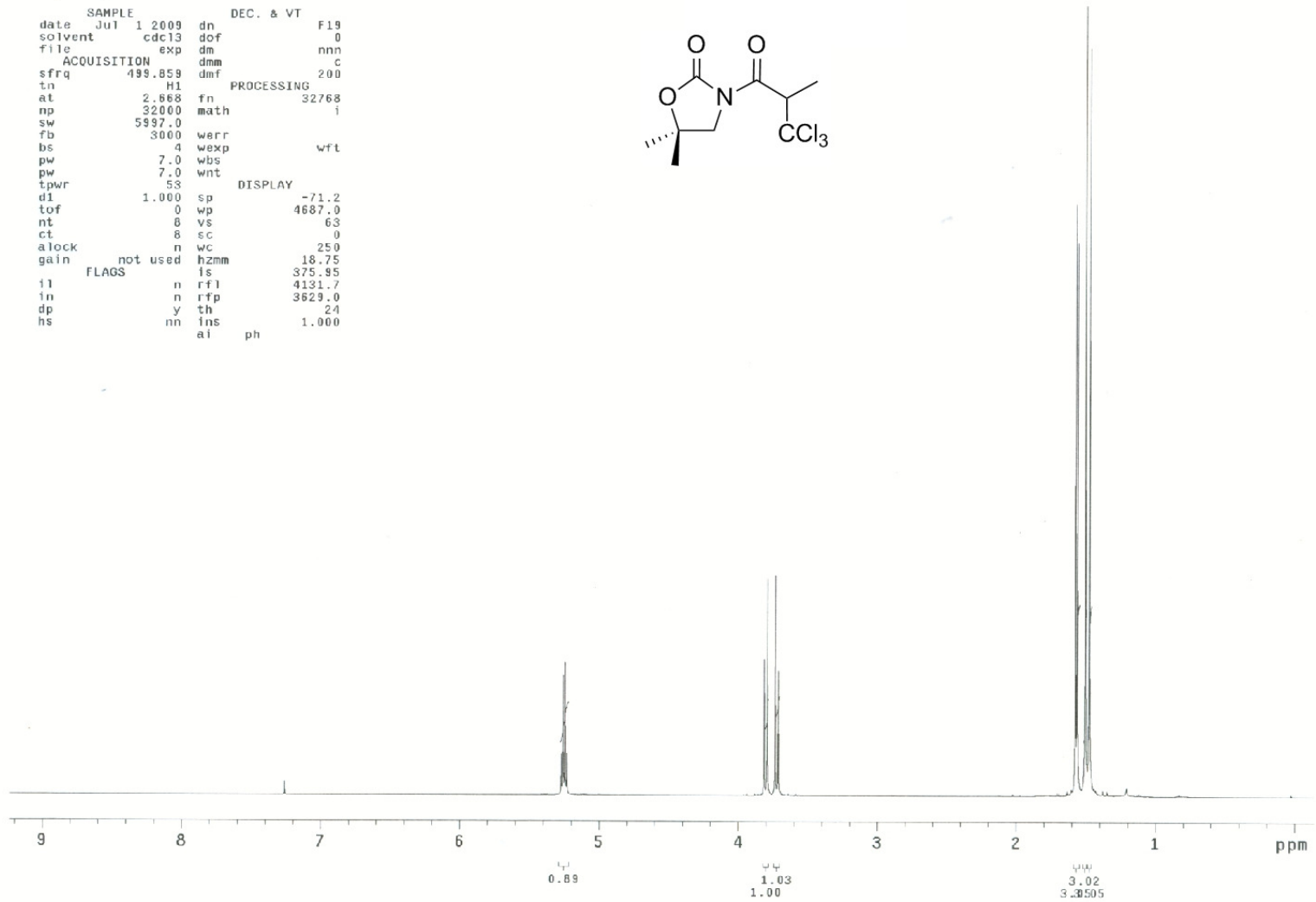
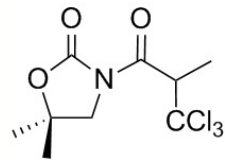
SAMPLE		SPECIAL	
date	Aug 19 2009	temp	not used
solvent	CDCl3	gain	42
file	/home/Zakaria~	spin	20
n/monroe	/1rm-1-135~	hst	0.008
	-c13.fid	pw90	9.200
		alfa	10.000
ACQUISITION		FLAGS	
sw	33999.2		
at	1.300	i1	n
np	80430	in	n
fb	19000	dp	y
bs	4	hs	nn
di	0.200	PROCESSING	
nt	100000	lb	0.50
ct	2600	fn	not used
TRANSMITTER		DISPLAY	
tn	C13	sp	-206.5
sfrq	125.702	wp	25562.1
tof	865.4	rf1	13907.1
tpwr	56	rfp	9707.0
pw	9.200	rp	-32.0
		lp	-268.0
DECOUPLER		PLOT	
dn	H1	wc	250
dof	0	sc	0
dm	nnv	vs	1687
decwave		th	6
dpr	36	di	ph
dmf	10104		



```

snb-1-236-a
exp1 s2pu1
SAMPLE          DEC. & VT
date Jul 1 2009 dn          F19
solvent cdc13 dof          0
file exp dm              nnn
ACQUISITION    dmm         C
sfrq 499.859 dmf         200
tn H1 PROCESSING
at 2.668 fn          32768
np 32000 math        1
sw 5997.0
fb 3000 werr
bs 4 wexp           wft
pw 7.0 wbs
pw 7.0 wnt
tpwr 53 DISPLAY
d1 1.000 sp          -71.2
tof 0 wp            4687.0
nt 8 vs            63
ct 8 sc            0
alock n wc         250
gain not used hzmm   18.75
FLAGS is          375.95
il n rfl          4131.7
in n rfp          3629.0
dp y th           2.4
hs mn ins        1.000
ai ph

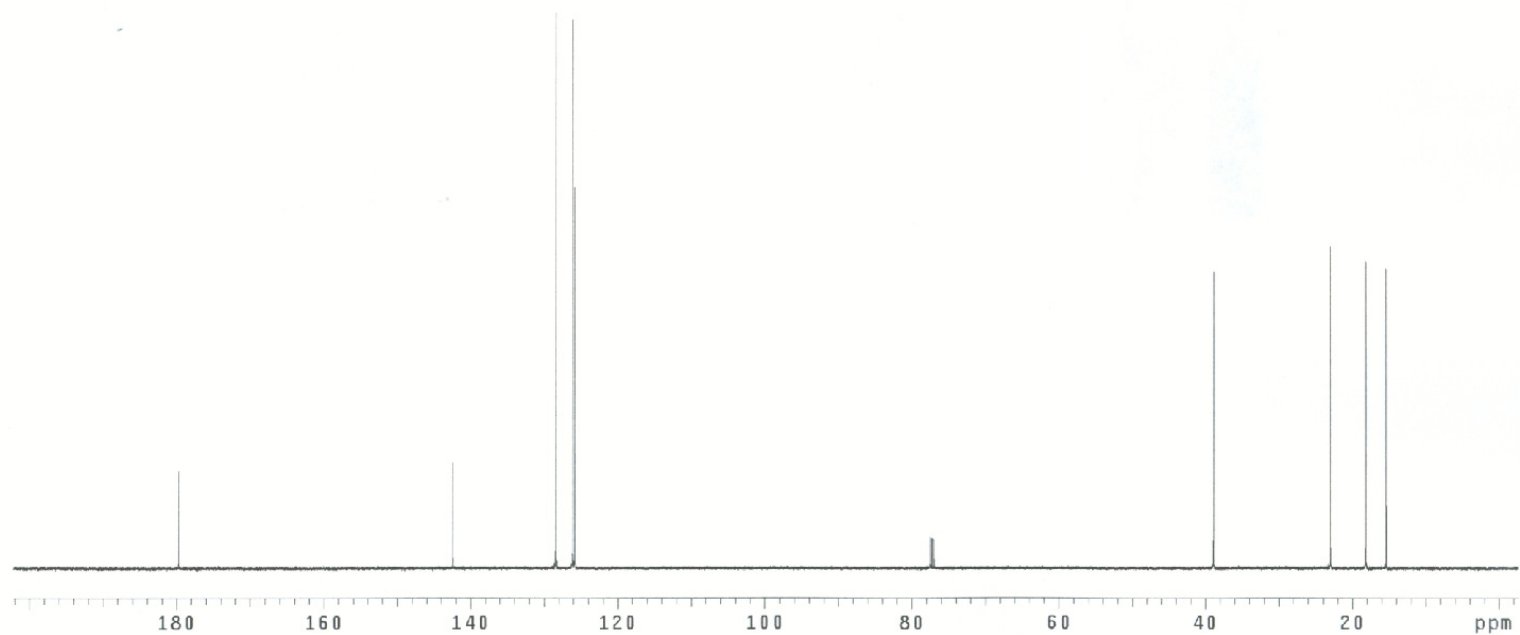
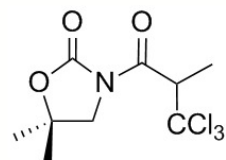
```



snb-1-226-a-c13

exp1 CARBON

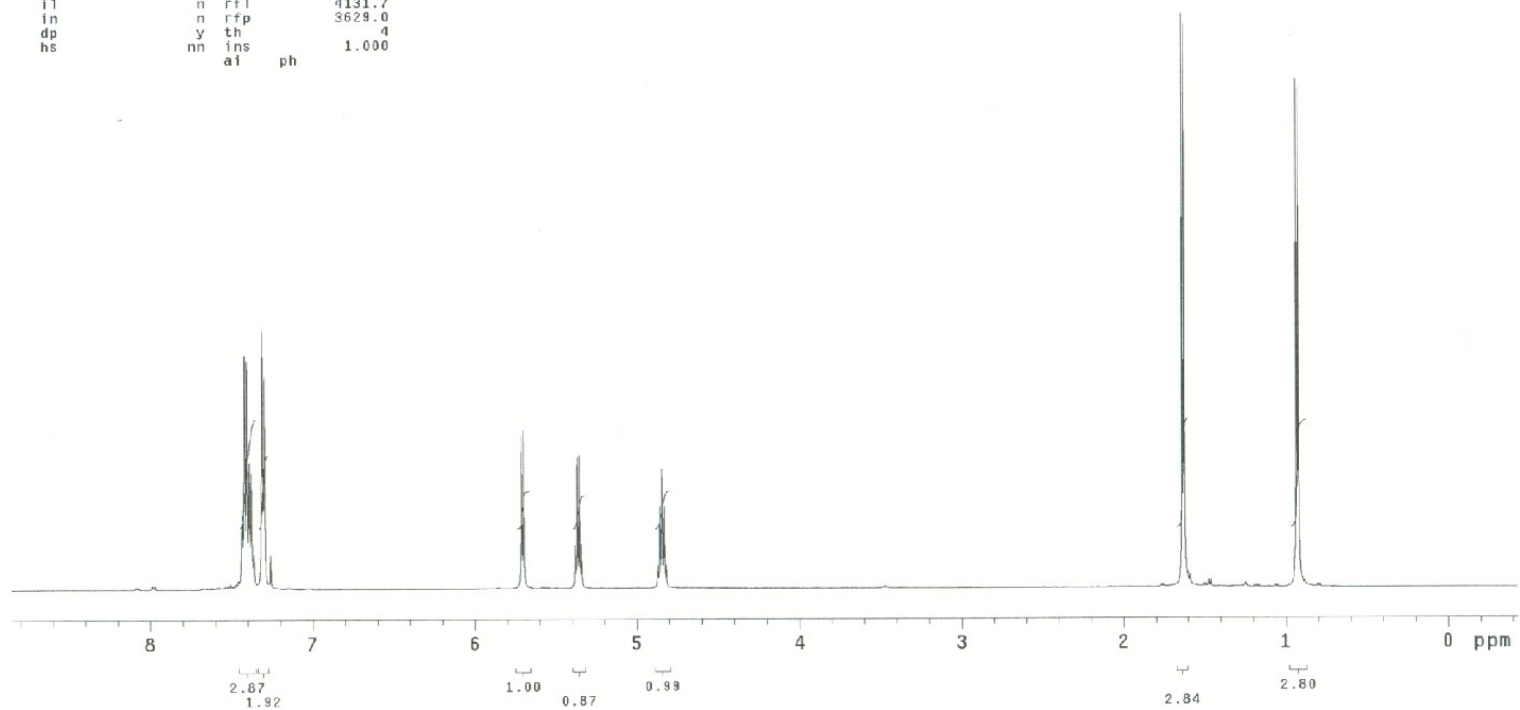
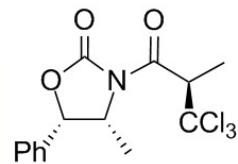
SAMPLE		SPECIAL	
date	Jun 29 2009	temp	22.0
solvent	CDCl3	gain	42
file	/home/Zakaria~	spin	20
n/beamont	snb-1-2~	hst	0.008
26-a-c13	500.fid	pw90	9.200
ACQUISITION		alfa	10.000
sw	36003.6	FLAGS	
at	1.300	il	n
np	93644	in	n
fb	20000	dp	y
bs	4	hs	nn
d1	1.000	PROCESSING	
nt	90	lb	0.50
ct	20	fn	not used
TRANSMITTER		DISPLAY	
tn	C13	sp	-348.0
sfrq	125.702	wp	25758.9
tof	865.4	rfl	14938.9
tpwr	56	rfp	9707.0
pw	9.200	rp	-61.9
DECOUPLER		lp	-274.1
dn	H1	PLOT	
dof	0	wc	250
dm	nny	sc	0
dscwave		vs	304
dpwr	36	th	9
dmf	10104	ai	cdc ph



snb-1-251-a

expl s2pu1

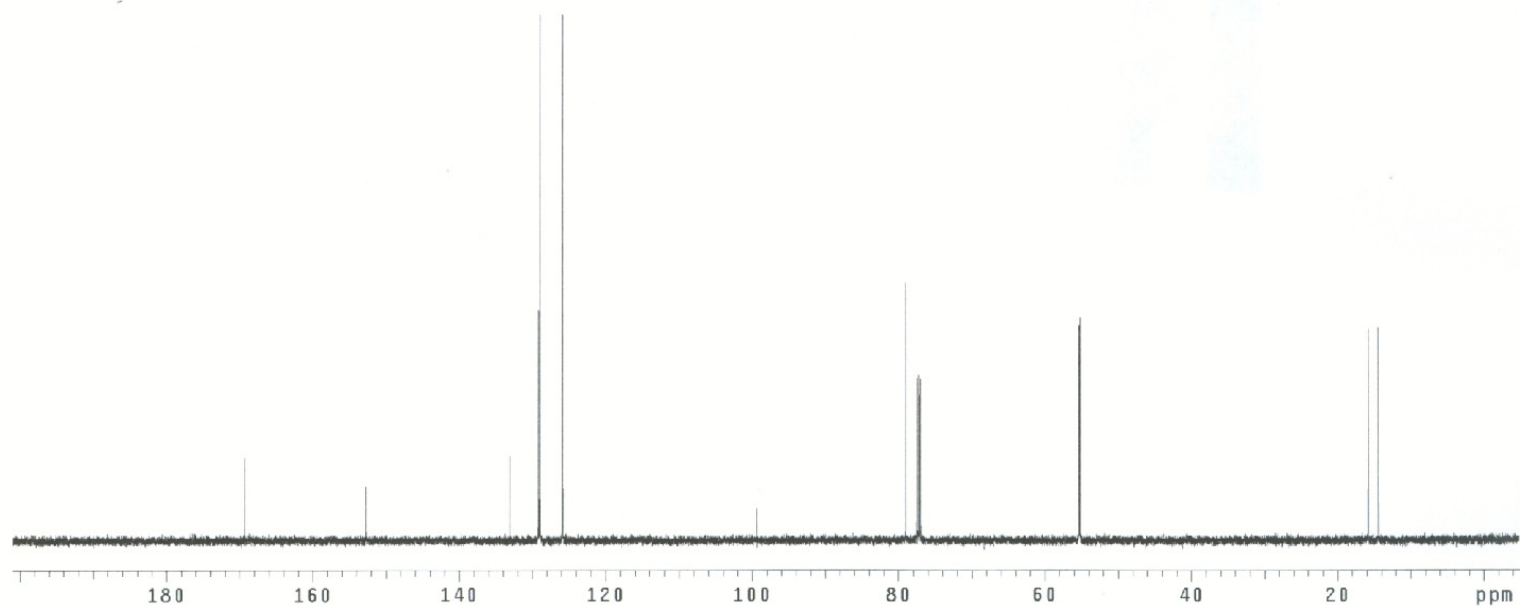
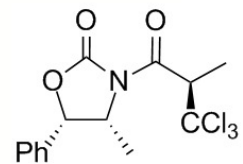
SAMPLE		DEC. & VT	
date	Jul 15 2009	dn	F19
solvent	cdcl3	dof	0
file	exp	dm	nnn
ACQUISITION		PROCESSING	
sfrq	499.859	dmm	c
tn	H1	dmf	200
at	2.668	fn	32768
np	32000	math	1
sw	5897.0		
fb	3000	werr	
bs	4	wexp	wft
pw	7.0	wbs	
pw	7.0	wnt	
tpwr	53	DISPLAY	
d1	1.000	sp	-215.1
tof	0	wp	4642.3
nt	8	vs	63
ct	8	sc	0
alock	n	wc	250
gain	not used	hzmm	18.57
FLAGS		is	188.76
il	n	rfl	4131.7
in	n	rfp	3629.0
dp	y	th	4
hs	nn	ins	1.000
		ai	ph



```

snb-1-25-a-13c
exp1 CARBON
SAMPLE SPECIAL
date Jul 15 2009 temp 22.0
solvent CDCl3 gain 42
file /home/Zakaria~ spin 20
n/beaumont/snb-1-2~ hst 0.008
51-a-13c.500.fid pw90 9.200
ACQUISITION a1fa 10.000
sw 36003.6 FLAGS
at 1.300 il n
np 93644 in n
fb 20000 dp y
bs 4 hs nn
d1 1.000 PROCESSING
nt 92 lb 0.50
ct 32 fn not used
TRANSMITTER C13 DISPLAY
tn C13 sp -521.2
sfrq 125.702 wp 25877.6
tof 865.4 rfl 14914.3
tpwr 56 rfp 9707.0
pw 9.200 rp -34.8
DECOUPLER H1 lp -264.3
dn H1 PLOT
dof 0 wc 250
dm nny sc 0
decwave vs 1002
dpwr 36 th 9
dmf 10104 al cdc ph

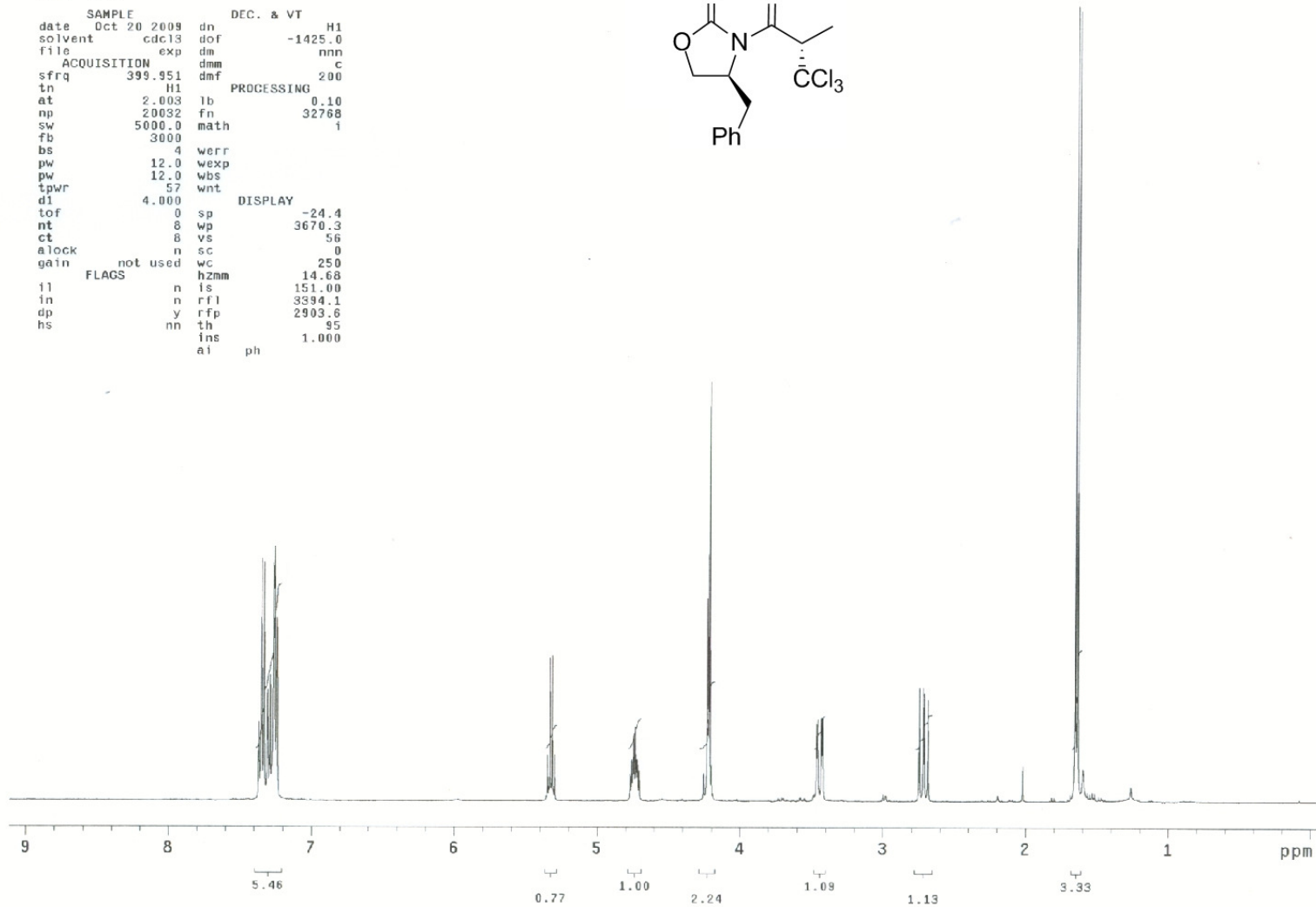
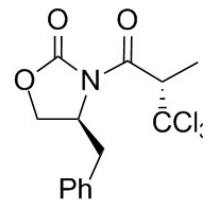
```



snb-1-164-a

exp1 s2pu1

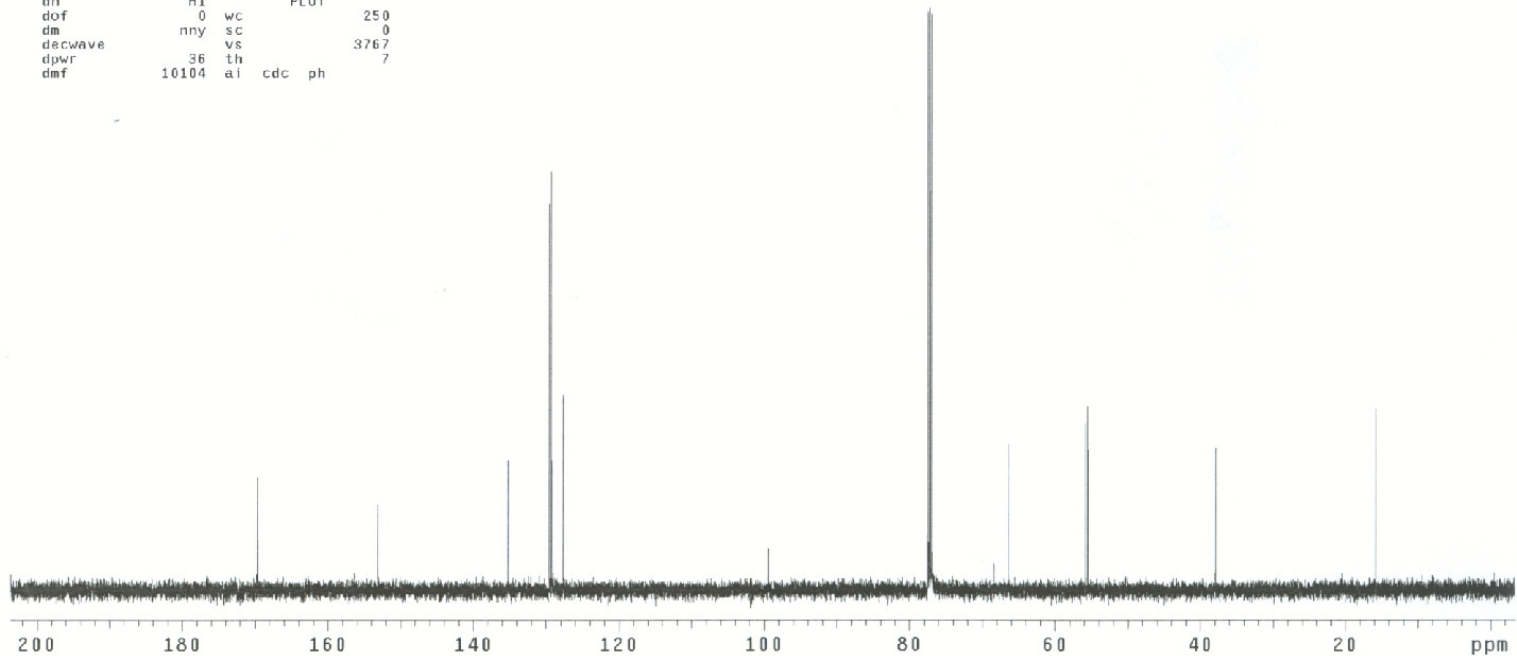
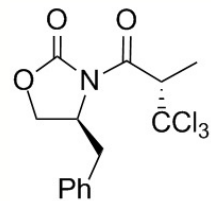
SAMPLE		DEC. & VT	
date	Oct 20 2009	dn	H1
solvent	cdc13	dof	-1425.0
file	exp	dm	nnn
ACQUISITION		PROCESSING	
sfrq	399.951	dmm	c
tn	H1	dmf	200
at	2.003	lb	0.10
np	20032	fn	32768
sw	5000.0	math	1
fb	3000		
bs	4	werr	
pw	12.0	wexp	
pw	12.0	wbs	
tpwr	57	wnt	
d1	4.000	DISPLAY	
tof	0	sp	-24.4
nt	8	wp	3670.3
ct	8	vs	56
alock	n	sc	0
gain	not used	wc	250
FLAGS		hzmm	14.68
ll	n	is	151.00
in	n	rfl	3394.1
dp	y	rfp	2903.6
hs	nn	th	95
		ins	1.000
		ai	ph



snb-1-164-a-13C

exp1 CARBON

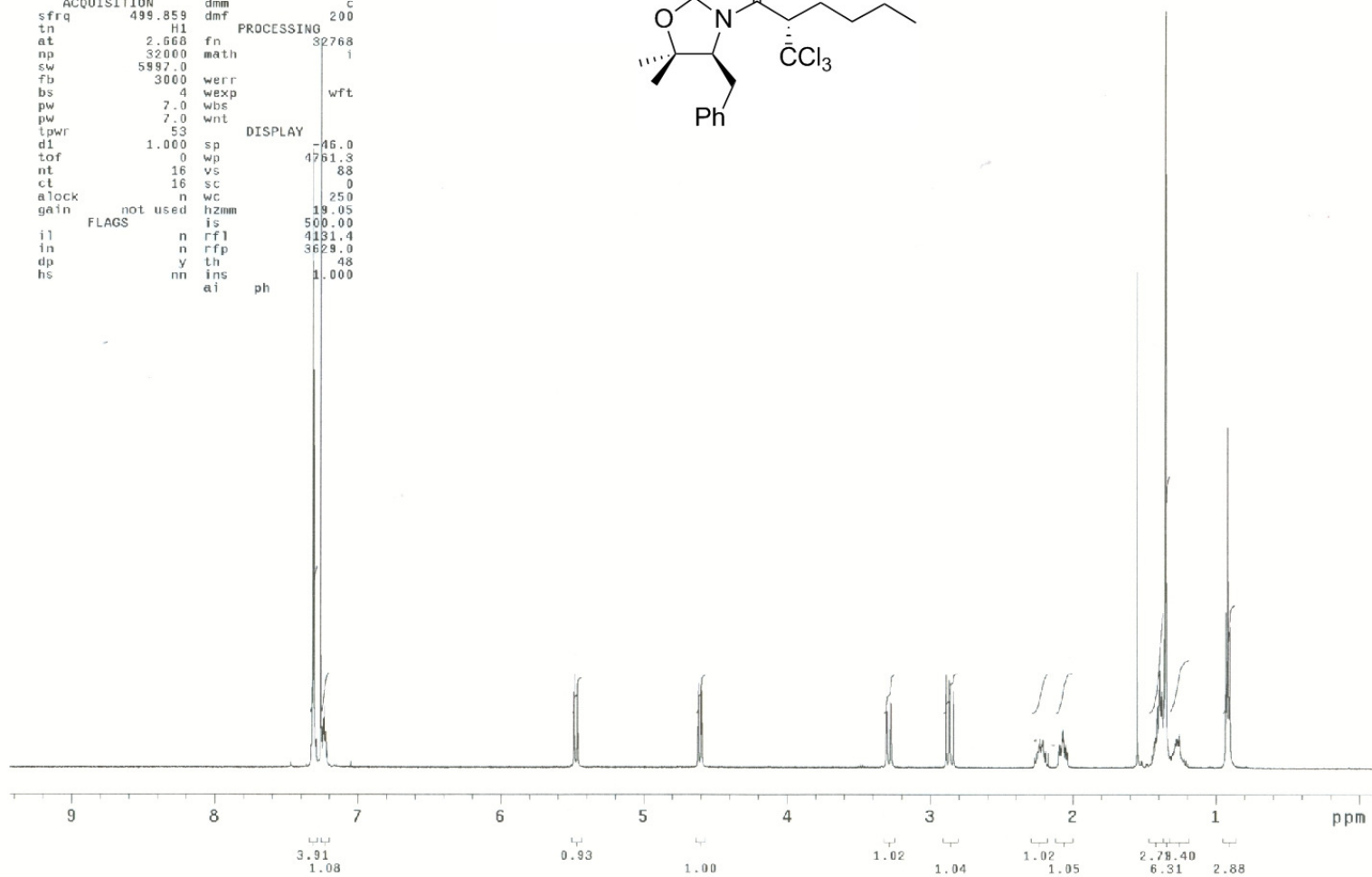
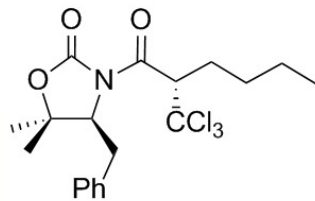
SAMPLE		SPECIAL	
date	Oct 20 2009	temp	22.0
solvent	CDCl3	gain	42
file	/home/Zakaria~	spin	20
n/beamont/snb-1-1~		hst	0.008
64-a-13C.500.fid		pw90	9.200
ACQUISITION		alfa	10.000
sw	36003.6	FLAGS	
at	1.300	il	n
np	93644	in	n
fb	20000	dp	Y
bs	4	hs	nn
d1	4.000	PROCESSING	
nt	256	lb	0.50
ct	108	fn	not used
TRANSMITTER		DISPLAY	
tn	C13	sp	-434.4
sfrq	125.702	wp	26027.0
tof	865.4	rfl	14905.1
tpwr	56	rfp	9707.0
pw	9.200	rp	-38.2
DECOUPLER		lp	-301.9
dn	H1	PLOT	
dof	0	wc	250
dm	nyy	sc	0
decwave		vs	3767
dpr	36	th	
dmf	10104	ai	cdc ph





snb-1-256-a  
exp1 s2pu1

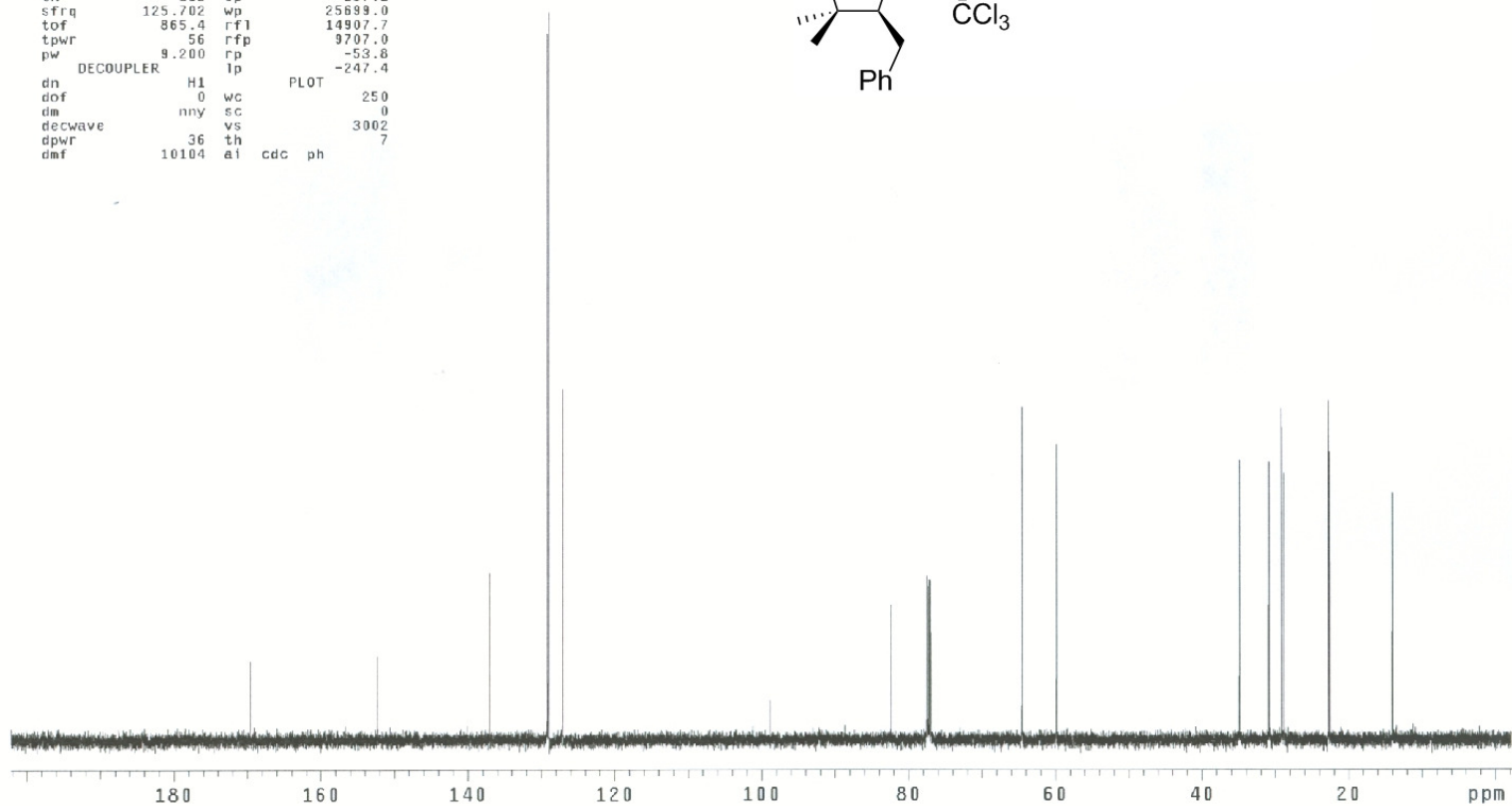
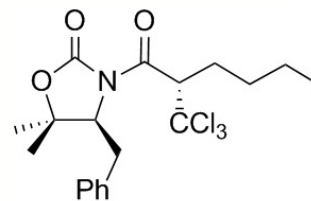
SAMPLE		DEC. & VT	
date	Jul 13 2009	dn	F19
solvent	cdcl3	dof	0
file	exp	dm	nnn
ACQUISITION		dmf	
sfrq	499.859	dmm	c
tn	H1	dmf	200
PROCESSING			
at	2.568	fn	32768
np	32000	math	1
sw	5897.0		
fb	3000	werr	
bs	4	wexp	wft
pw	7.0	wbs	
pw	7.0	wnt	
tpwr	53		
DISPLAY			
d1	1.000	sp	-46.0
tof	0	wp	4751.3
nt	16	vs	88
ct	16	sc	0
alock	n	wc	250
gain	not used	hzmm	19.05
FLAGS			
il	n	rfl	500.00
in	n	rfp	4131.4
dp	y	th	3629.0
hs	nn	ins	48
	ai	ph	1.000



snb-1-252-a-13c

exp1 CARBON

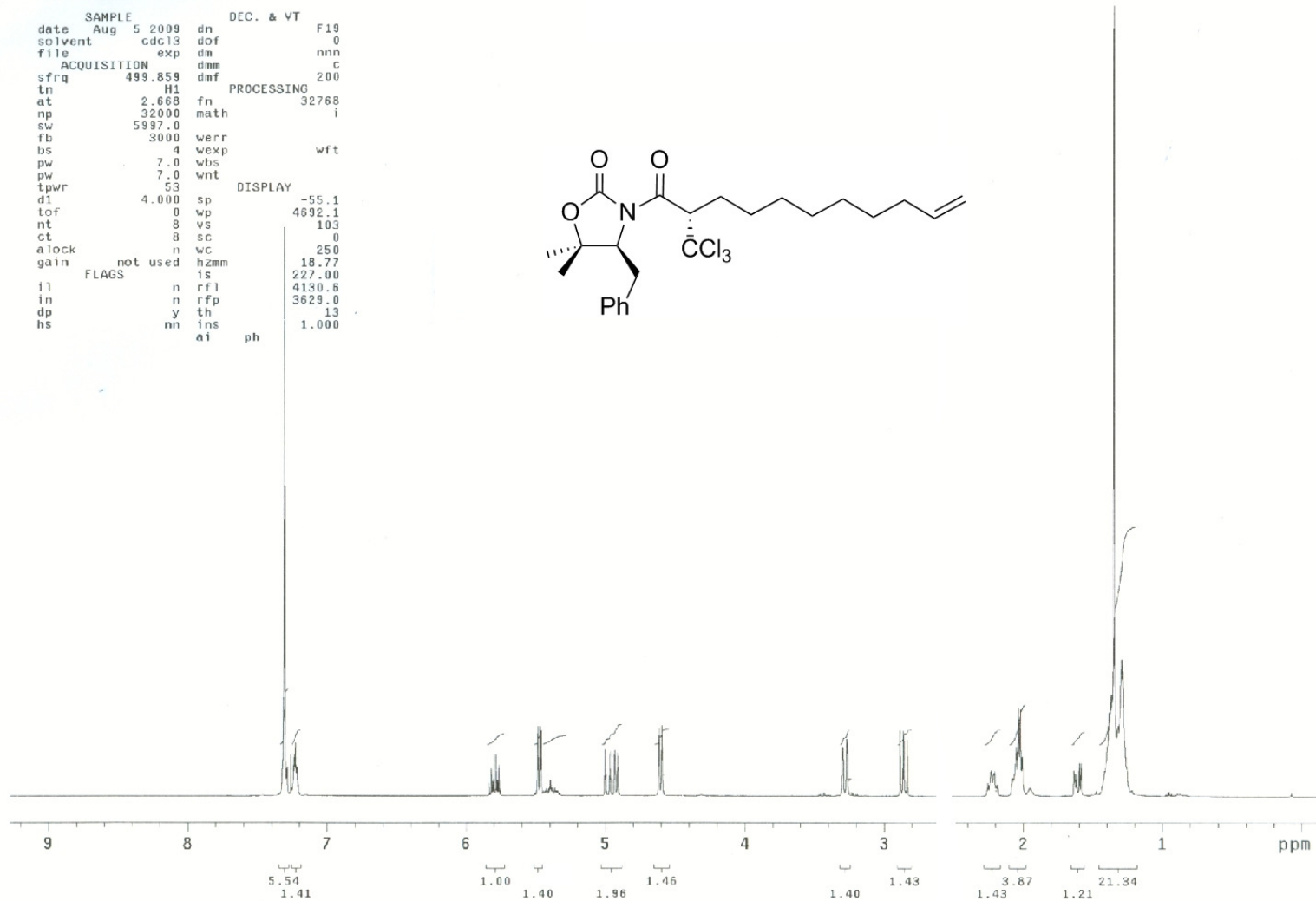
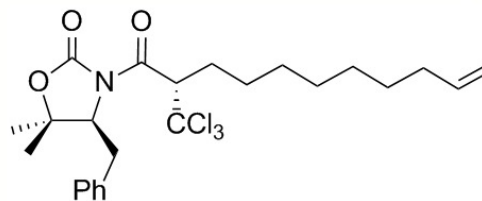
SAMPLE		SPECIAL	
date	Jul 14 2009	temp	22.0
solvent	CDCl3	gain	42
file	/home/Zakaria-	spin	20
n/beaumont/snb-1-2-		hst	0.008
56-a-13c.500.fid		pw90	9.200
ACQUISITION		alfa	10.000
sw	36003.6	FLAGS	
at	1.300	il	n
np	93644	in	n
fb	20000	dp	y
bs	4	hs	nn
d1	1.000	PROCESSING	
nt	184	lb	0.50
ct	92	fn	not used
TRANSMITTER		DISPLAY	
tn	C13	sp	-287.2
sfrq	125.702	wp	25699.0
tof	865.4	rfl	14907.7
tpwr	56	rfp	9707.0
pw	9.200	rp	-53.8
DECOUPLER		lp	-247.4
dn	H1	PLOT	
dof	0	wc	250
dm	nyy	sc	0
decwave		vs	3002
dpwr	36	th	7
dmf	10104	ai	cdc ph



snb-1-269-a

expl s2pu1

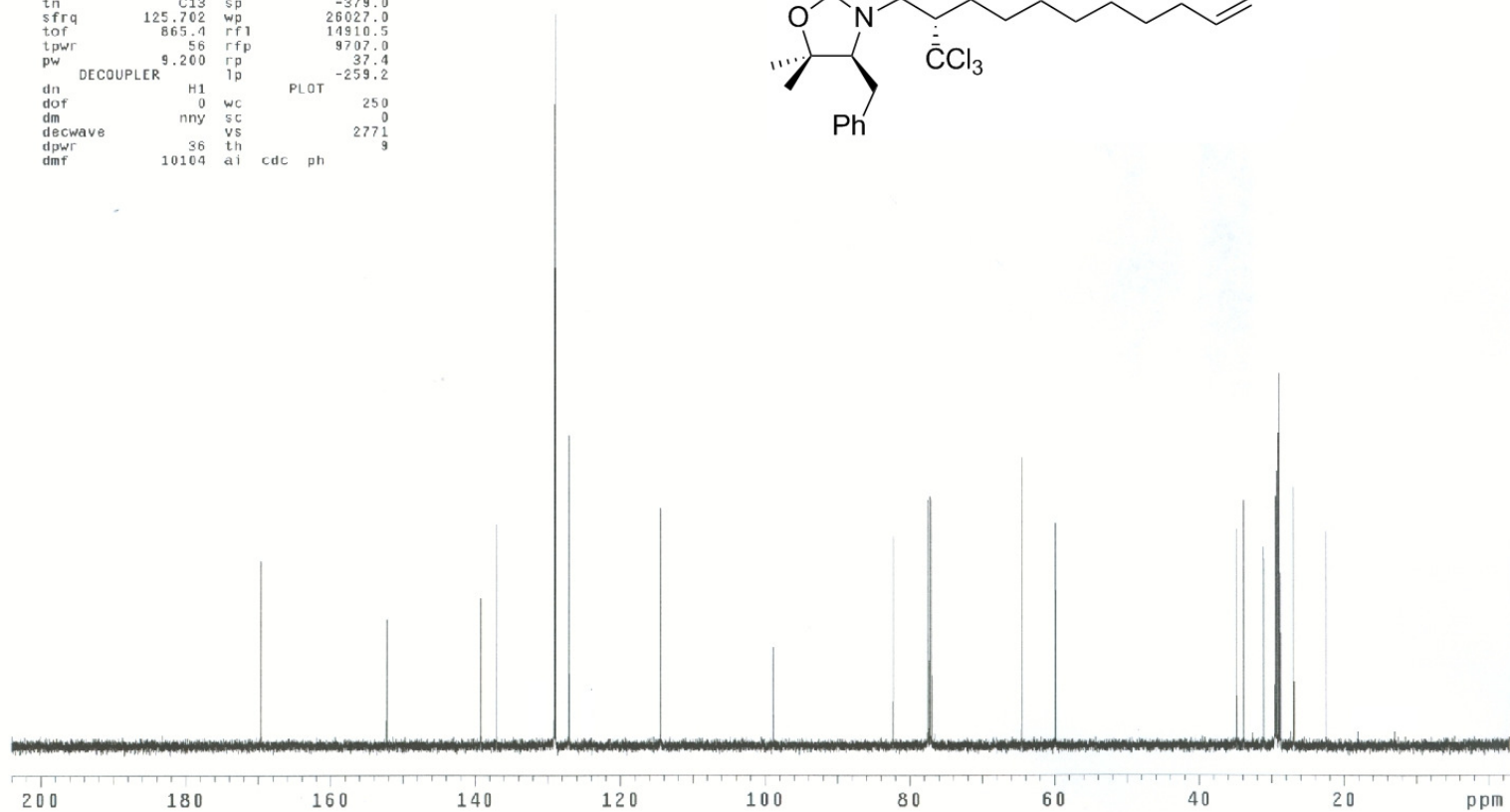
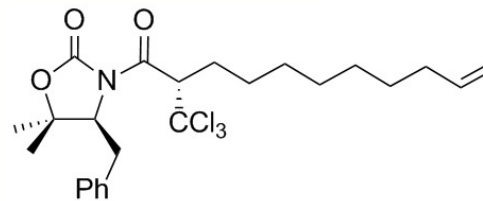
SAMPLE		DEC. & VT	
date	Aug 5 2009	dn	dof F19
solvent	cdcl3	dof	0
file	exp	dm	nnn
ACQUISITION		dmf	
sfrq	499.859	dmm	c
tn	H1	dmf	200
PROCESSING		32768	
at	2.668	fn	i
np	32000	math	
sw	5997.0		
fb	3000	werr	
bs	4	wexp	wft
pw	7.0	wbs	
pw	7.0	wnt	
tpwr	53		
d1	4.000	sp	-55.1
tof	0	wp	4892.1
nt	8	vs	103
ct	8	sc	0
alock	n	wc	250
gain	not used	hzmm	18.77
FLAGS		is	
il	n	rfl	227.00
in	n	rfp	4130.6
dp	y	th	3629.0
hs	nn	ins	13
	at	ph	1.000



snb-1-289-a-13C

exp1 CARBON

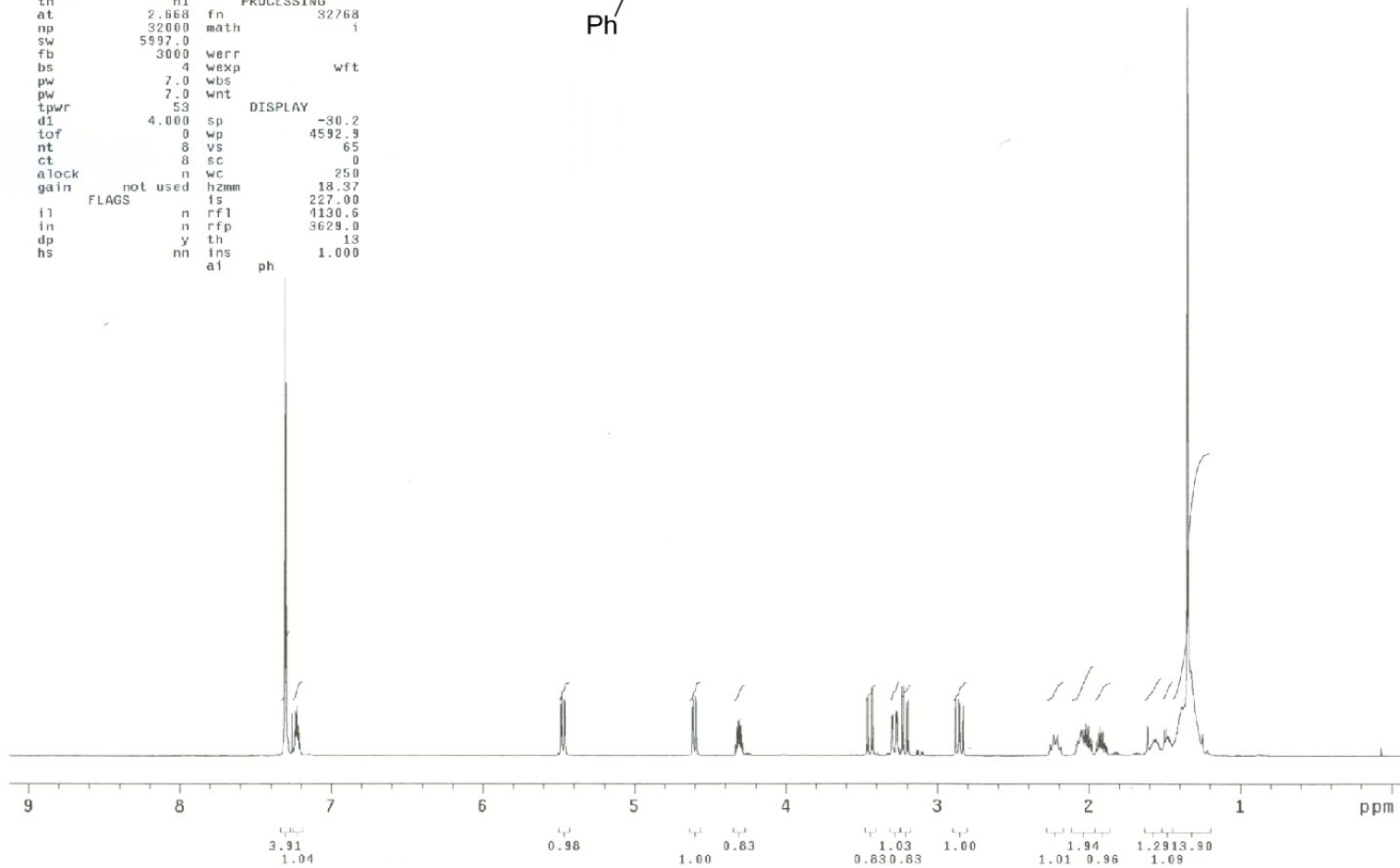
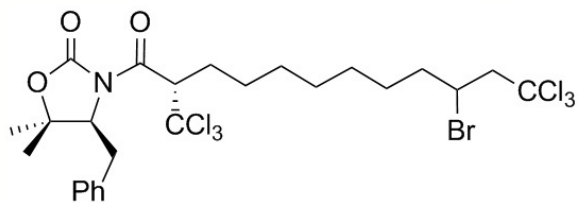
SAMPLE		SPECIAL	
date	Aug 5 2009	temp	22.0
solvent	CDCl3	gain	42
file	/home/Zakaria~	spin	20
n/beaumont/snb-1-2~		hst	0.008
69-a-13C.500.fid		pw90	9.200
ACQUISITION		alfa	10.000
sw	36003.6	FLAGS	
at	1.300	il	n
np	93644	in	n
fb	20000	dp	y
bs	4	hs	nn
d1	1.000	PROCESSING	
nt	128	lb	0.50
ct	128	fn	not used
TRANSMITTER		DISPLAY	
tn	C13	sp	-379.0
sfrq	125.702	wp	26027.0
tof	865.4	rfl	14910.5
lpwr	56	rflp	9707.0
pw	9.200	rp	37.4
DECOUPLER		lp	-259.2
dn	H1	PLOT	
dof	0	wc	250
dm	nny	sc	0
decwave		vs	2771
dpr	36	th	3
dmf	10104	al	cdc ph



```

snb-1-267-a
exp1 s2pu1
SAMPLE
date Aug 4 2009 dn DEC. & VT F19
solvent cdc13 dof 0
file exp dm nnn
ACQUISITION dmm c
sfrq 499.859 dmf 200
IN
at 2.668 fn PROCESSING 92768
np 32000 math 1
sw 5997.0
fb 3000 werr
bs 4 wexp wft
pw 7.0 wbs
pw 7.0 wnt
tpwr 53
d1 4.000 sp DISPLAY
tof 0 wp -30.2
nt 8 vs 4592.9
ct 8 sc 65
alock n wc 250
gain not used hzmm 18.37
FLAGS n rf1 227.00
in n rfp 4130.6
dp y th 3629.0
hs nn ins 13
at 1.000

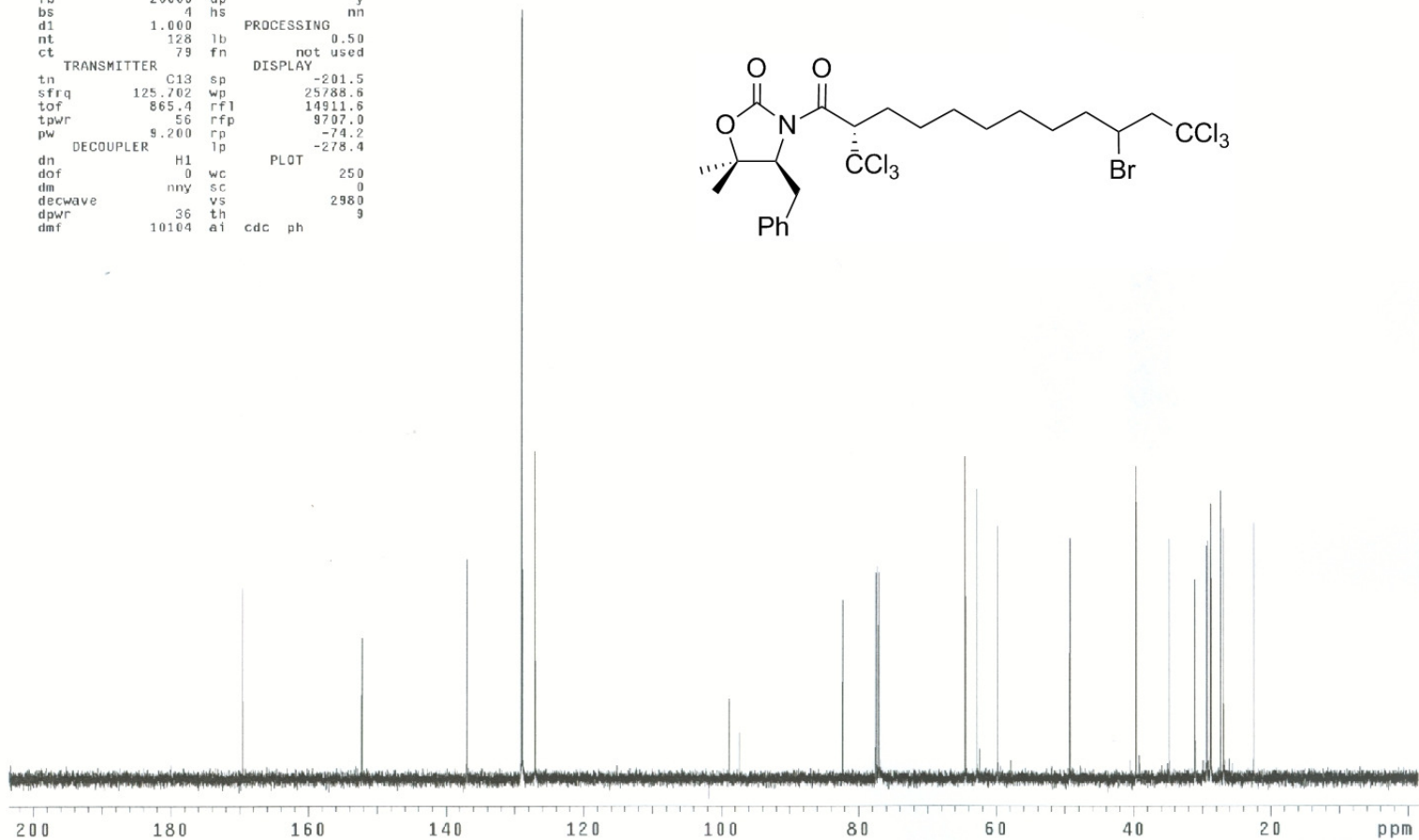
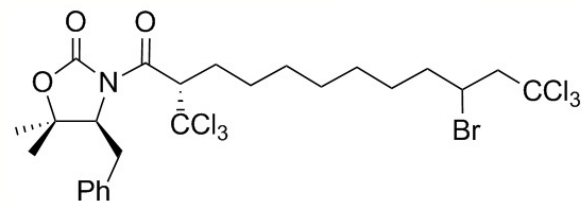
```



snb-1-267-a-13C

exp1 CARBON

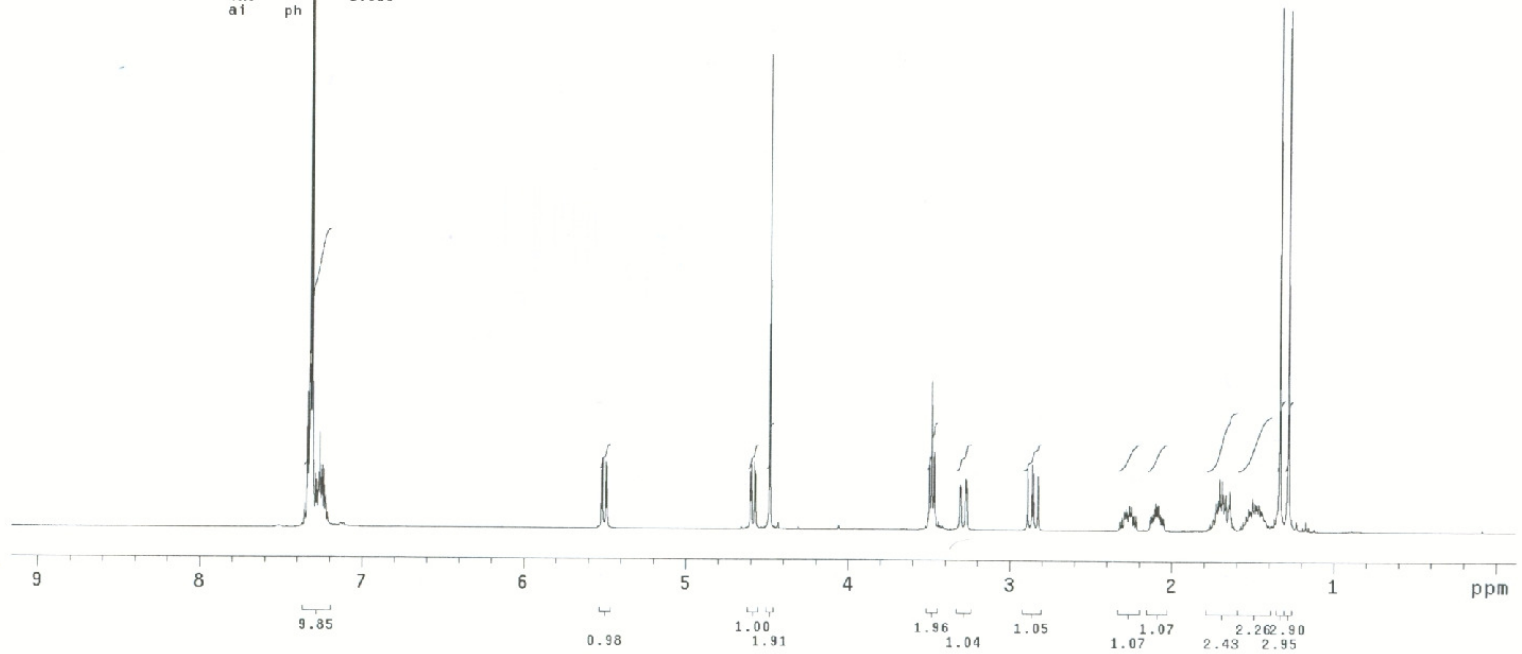
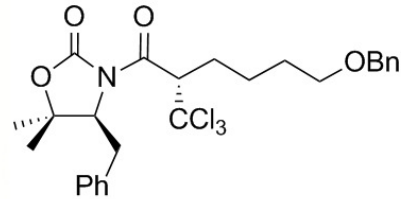
SAMPLE		SPECIAL	
date	Aug 4 2009	temp	22.0
solvent	CDCl3	gain	42
file	/home/Zakaria~	spin	20
n/beamont/snb-1-2~		hst	0.008
67-a-13C.500.fid		pw90	9.200
ACQUISITION		alfa	10.000
sw	36003.6	FLAGS	
at	1.300	il	n
np	93644	in	n
fb	20000	dp	y
bs	4	hs	nn
d1	1.000	PROCESSING	
nt	128	lb	0.50
ct	79	fn	not used
TRANSMITTER		DISPLAY	
tn	C13	sp	-201.5
sfrq	125.702	wp	25788.6
tof	865.4	rfl	14911.6
tpwr	56	rfp	9707.0
pw	9.200	rp	-74.2
DECOUPLER		lp	-278.4
dn	H1	PLOT	
dof	0	wc	250
dm	nyy	sc	0
decwave		vs	2980
dpr	36	th	9
dmf	10104	al	cdc ph



snb-1-289-a

exp1 s2pu1

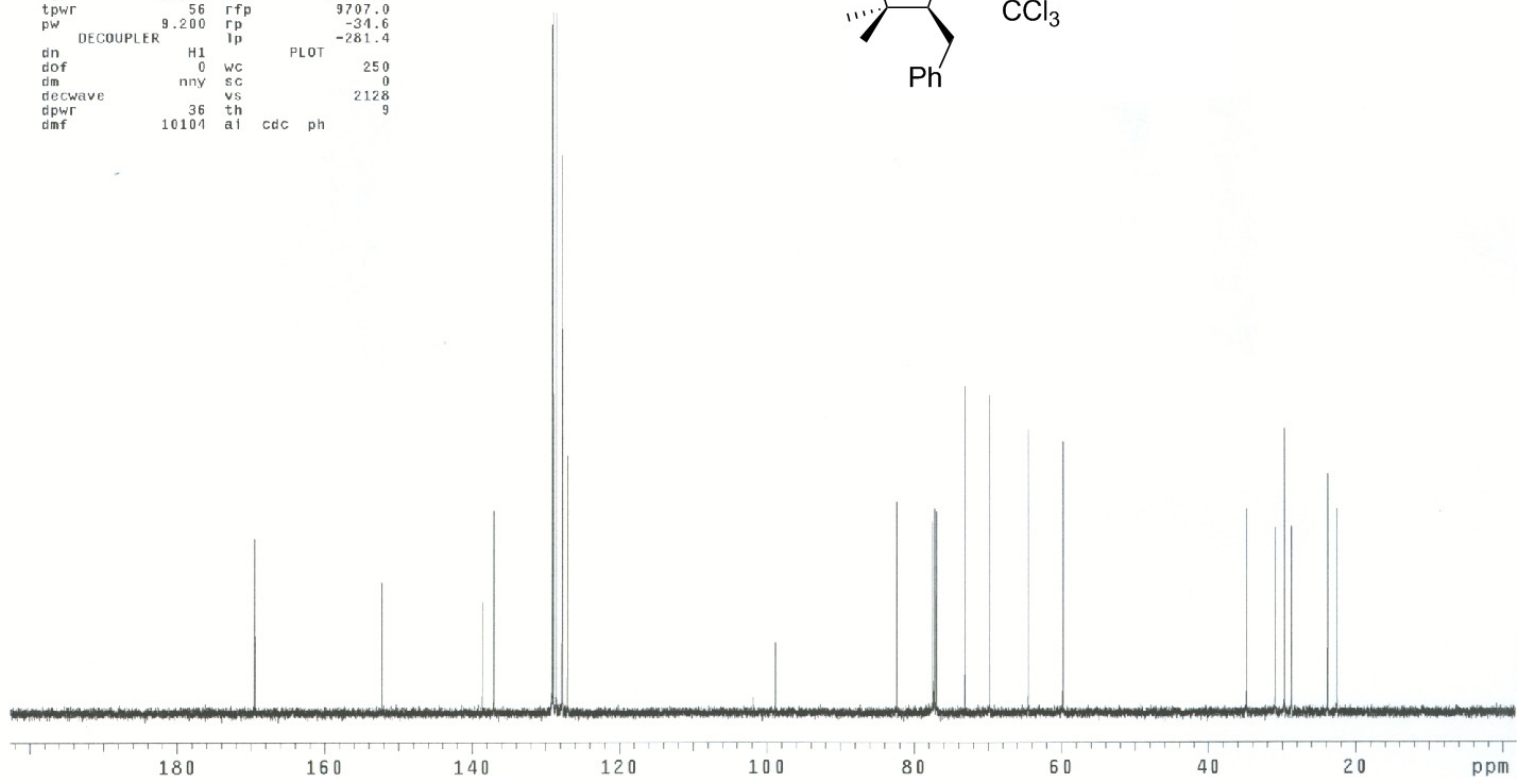
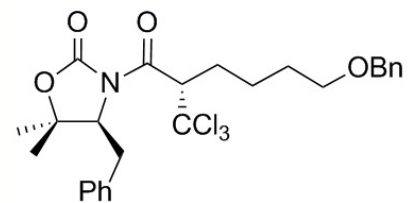
```
SAMPLE      DEC. & VT
date Jul 31 2009 dn H1
solvent cdc13 dof -1425.0
file      exp  dn nnn
ACQUISITION dmm c
sfrq 399.951 dmf 200
tn H1 PROCESSING
at 2.003 lb 0.10
np 20032 fn 32768
sw 5000.0 math 1
fb 3000
bs 4 warr
pw 12.0 wexp
pwr 12.0 wbs
tpwr 57 wnt
d1 4.000 DISPLAY
tof 0 sp -49.7
nt 8 wp 3713.6
ct 8 vs 71
alock n n 0
gain not used wc 250
FLAGS hzmm 14.85
il n is 267.97
in n rfl 3395.6
dp y rfp 2903.6
hs nn th 4
ins 1.000
ai ph
```



snb-1-289-a-13C

exp1 CARBON

SAMPLE		SPECIAL	
date	Aug 3 2009	temp	22.0
solvent	CDCl3	gain	42
file	/home/Zakaria~	spin	20
n/beaumont/snb-1-2-		hst	0.008
89-a-13C.500.fid		pw90	8.200
ACQUISITION	alpha	10.000	
sw	36003.6	FLAGS	
at	1.300	il	n
np	93644	in	n
fb	20000	dp	y
bs	4	hs	nn
d1	1.000	PROCESSING	
nt	400	lb	0.50
ct	112	fn	not used
TRANSMITTER	C13	DISPLAY	
tn		sp	-232.3
sfrq	125.702	wp	25689.0
tof	865.4	rfl	14912.7
tpwr	56	rfp	9707.0
pw	9.200	rp	-34.6
DECOUPLER	H1	lp	-281.4
dn		PLOT	
dof	0	wc	250
dm	nny	sc	0
decwave		vs	2128
dpwr	36	th	9
dmf	10104	al	cdc ph

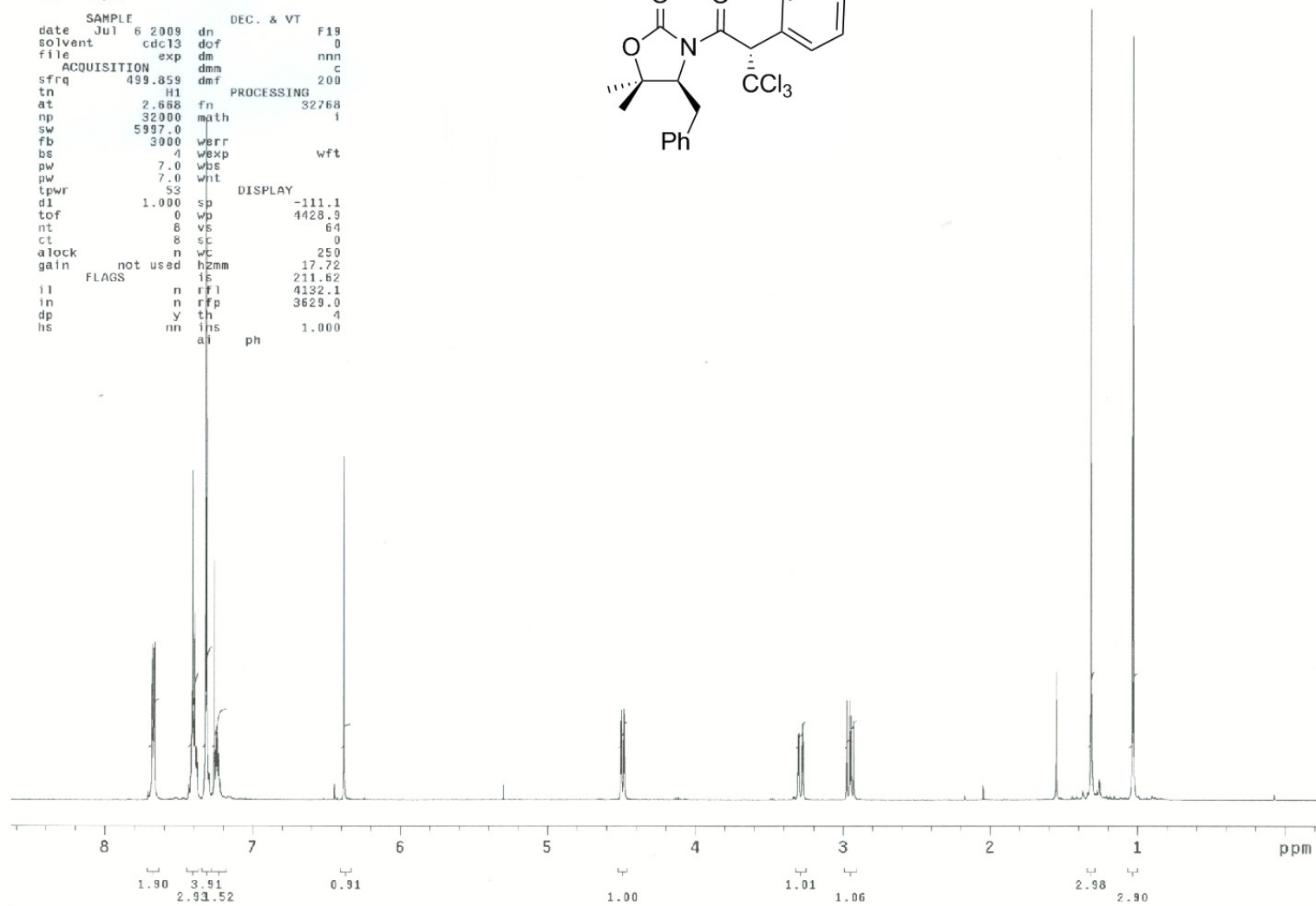
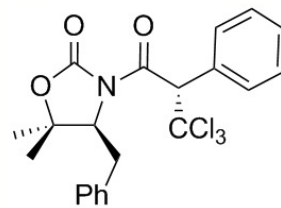




```

snb-1-252-a
exp1 s2pu1
SAMPLE
date Jul 6 2009 dn DEC. & VT F19
solvent cdc13 dof 0
file exp dm nnn
ACQUISITION dmm c
sfrq 499.859 dmf 200
fn
at 2.688 fn PROCESSING 32768
np 32000 math i
sw 5997.0
fb 3000 werr
bs 4 wexp wft
pw 7.0 wbs
pw 7.0 wht
tpwr 53 DISPLAY
d1 1.000 sp -111.1
tof 0 wp 4428.3
nt 8 vs 64
ct 8 sc 0
alock n wc 250
gain not used hzmm 17.72
FLAGS n is 211.62
i1 n rfl 4132.1
in n rfp 3629.0
dp y th 4
hs nn ins 1.000
all ph

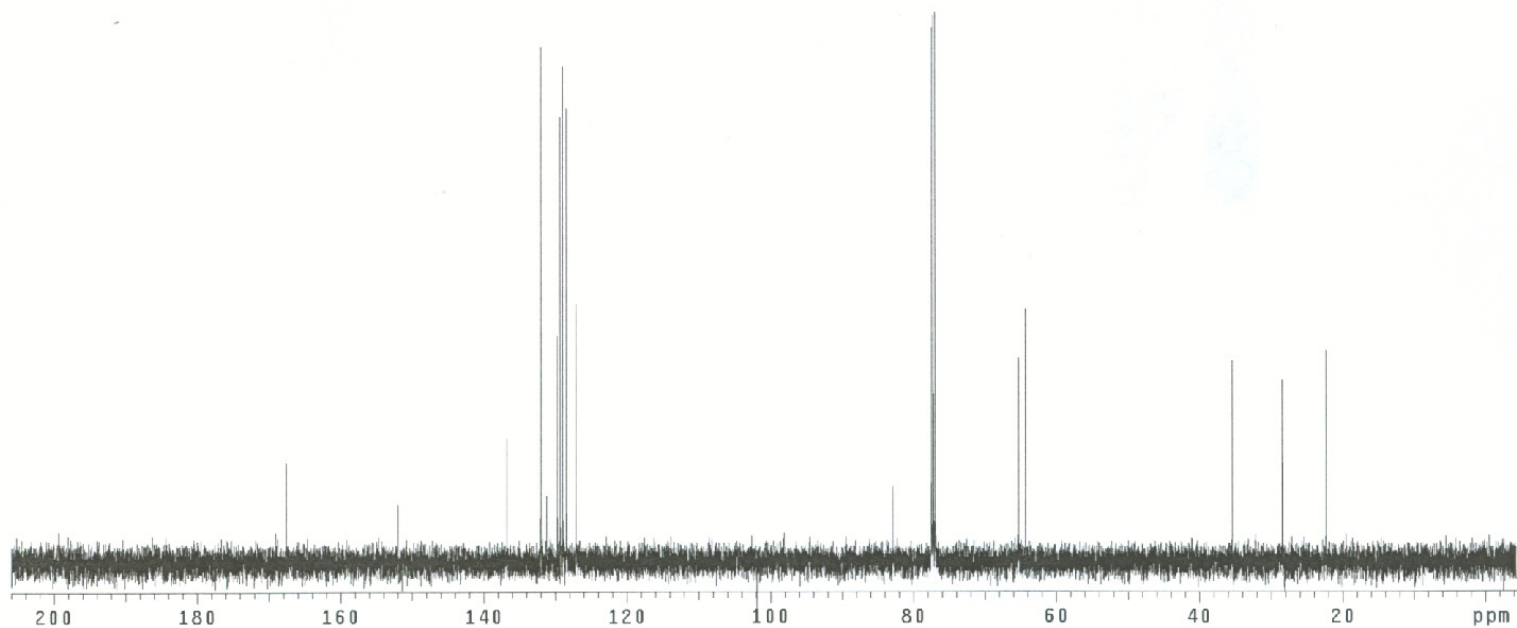
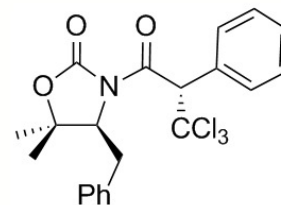
```



snb-1-252-a-13c

exp1 CARBON

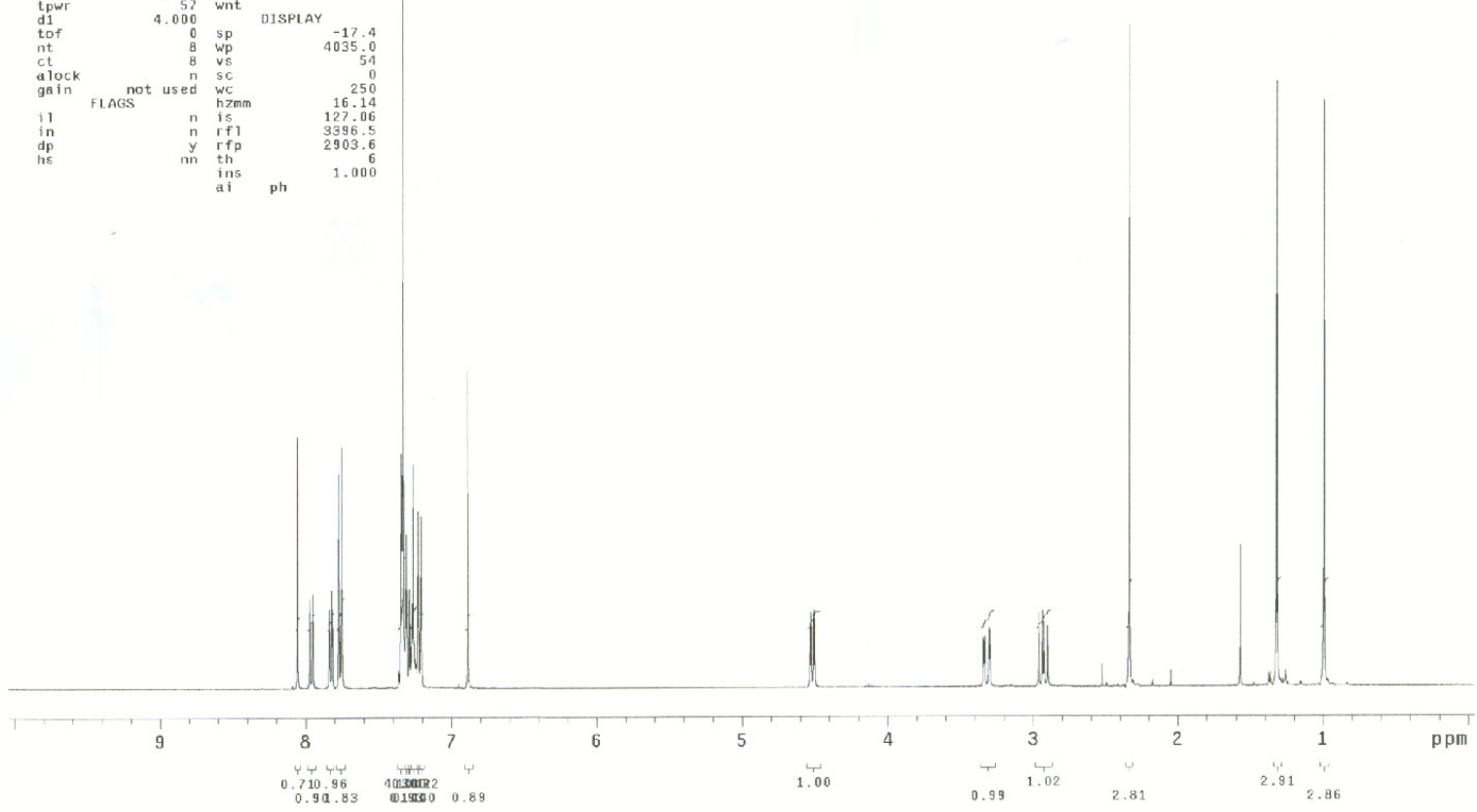
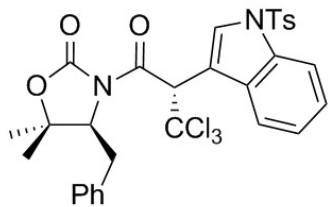
SAMPLE		SPECIAL	
date	Jul 6 2009	temp	22.0
solvent	CDC13	gain	42
file	/home/Zakaria	spin	20
n/beaumont/snb-1-2		hst	0.008
52-a-13c.500.fid		pw90	9.200
ACQUISITION		alfa	10.000
sw	36003.6	FLAGS	
at	1.800	il	n
np	93644	in	n
fb	20000	dp	y
bs	4	hs	nn
d1	1.000	PROCESSING	
nt	92	lb	0.50
ct	92	fn	not used
TRANSMITTER		DISPLAY	
tn	C13	sp	-552.6
sfrq	125.702	wp	26443.4
tof	865.4	rf1	14905.5
tpwr	56	rfp	9707.0
pw	9.200	rp	-32.3
DECOUPLER		lp	-332.8
dn	H1	PLOT	
dof	0	wc	250
dm	nnn	sc	0
decwave		vs	6519
dpwr	36	th	
dmf	10104	ai	cdc ph 11



snb-2-009-a

expl s2pu1

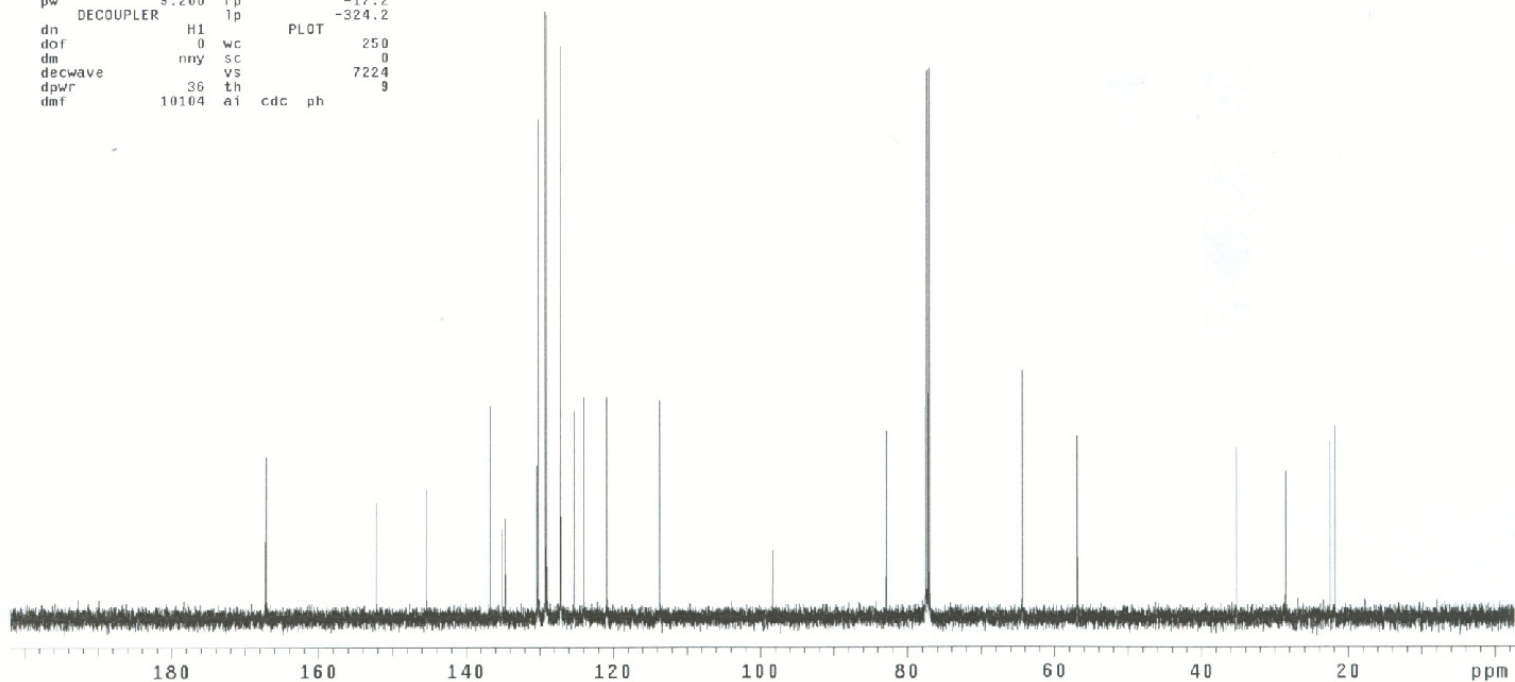
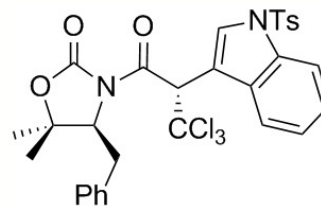
SAMPLE		DEC. & VT	
date	Aug 18 2009	dn	H1
solvent	cdc13	dof	-1425.0
file	exp	dm	nnn
ACQUISITION		dmm	c
sfrq	399.851	dmf	200
tn	H1	PROCESSING	
at	2.003	lb	0.10
np	20032	fn	32768
sw	5000.0	math	1
fb	3000		
bs	4	werr	
pw	12.0	wexp	
pw	12.0	wbs	
tpwr	57	wnt	
d1	4.000	DISPLAY	
tof	0	sp	-17.4
nt	8	wp	4035.0
ct	8	vs	54
alock		n	sc
gain	not used	wc	250
FLAGS		hzmm	16.14
il	n	is	127.06
in	n	rfl	3396.5
dp	y	rfp	2903.6
hs	nn	th	6
		ins	1.000
		ai	ph



snb-2-009-a-13C

exp1 CARBON

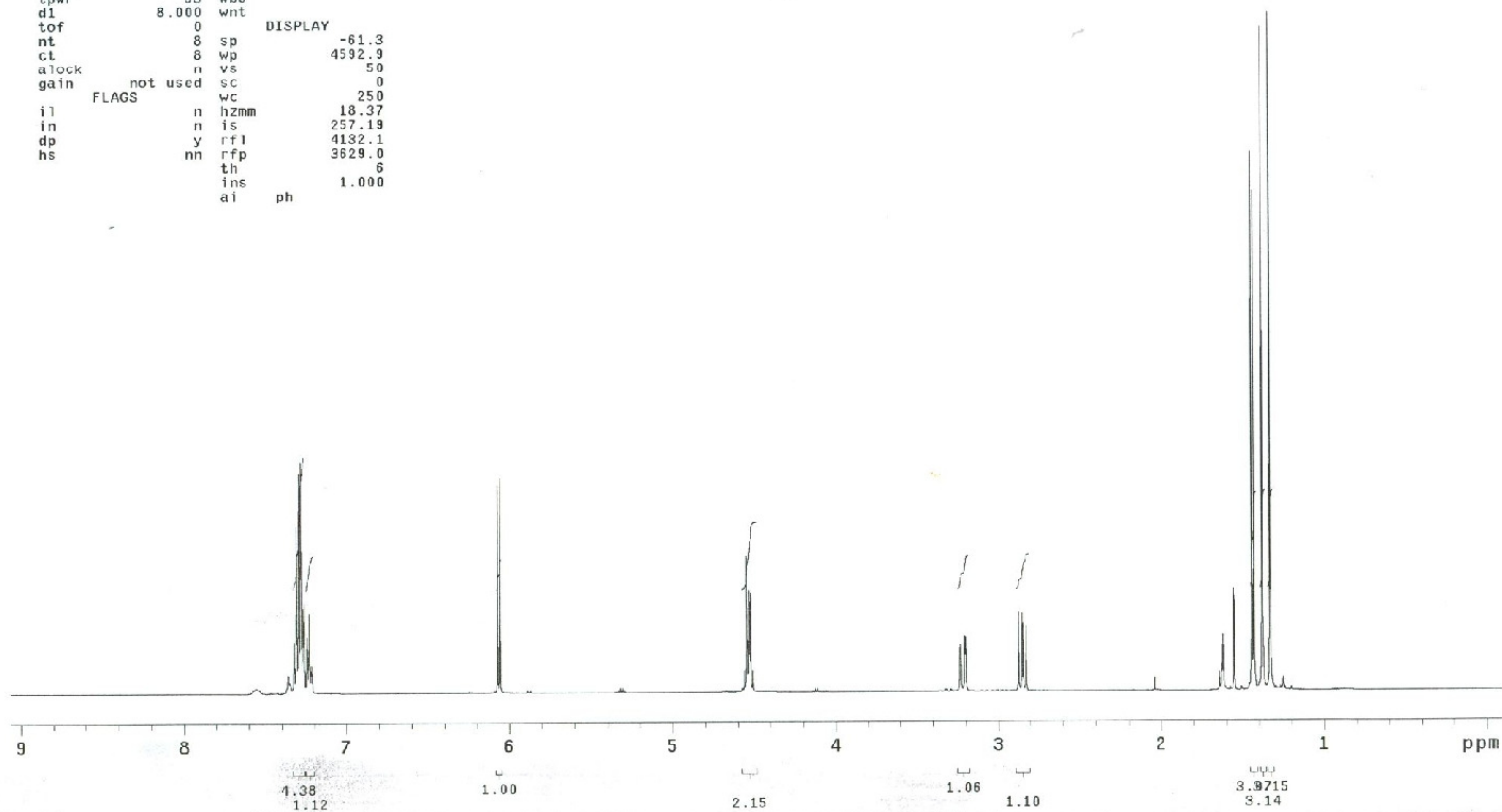
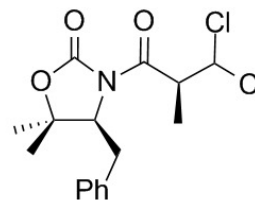
SAMPLE		SPECIAL	
date	Aug 18 2009	temp	22.0
solvent	CDCl3	gain	42
file	/home/Zakaria	spin	20
n/beaumont/snb-2-0		hst	0.008
09-a-13C.500.fid		pw90	9.200
ACQUISITION	alfa	alpha	10.000
ACQUISITION		FLAGS	
sw	36003.6		
at	1.300	il	n
np	93644	in	n
fb	20000	dp	y
bs	4	hs	nn
d1	1.000	PROCESSING	
nt	312	lb	0.50
ct	312	fn	not used
TRANSMITTER		DISPLAY	
tn	C13	sp	-344.9
sfrq	125.702	wp	25728.7
tof	865.4	rf1	14906.1
tpwr	56	rfp	9707.0
pw	9.200	rp	-17.2
DECOUPLER		PLOT	
dn	H1		
dof	0	wc	250
dm	nyy	sc	0
decwave		vs	7224
dpr	36	th	9
dpr	10104	a1	cdc ph



snb-2-019-a

exp1 s2pul

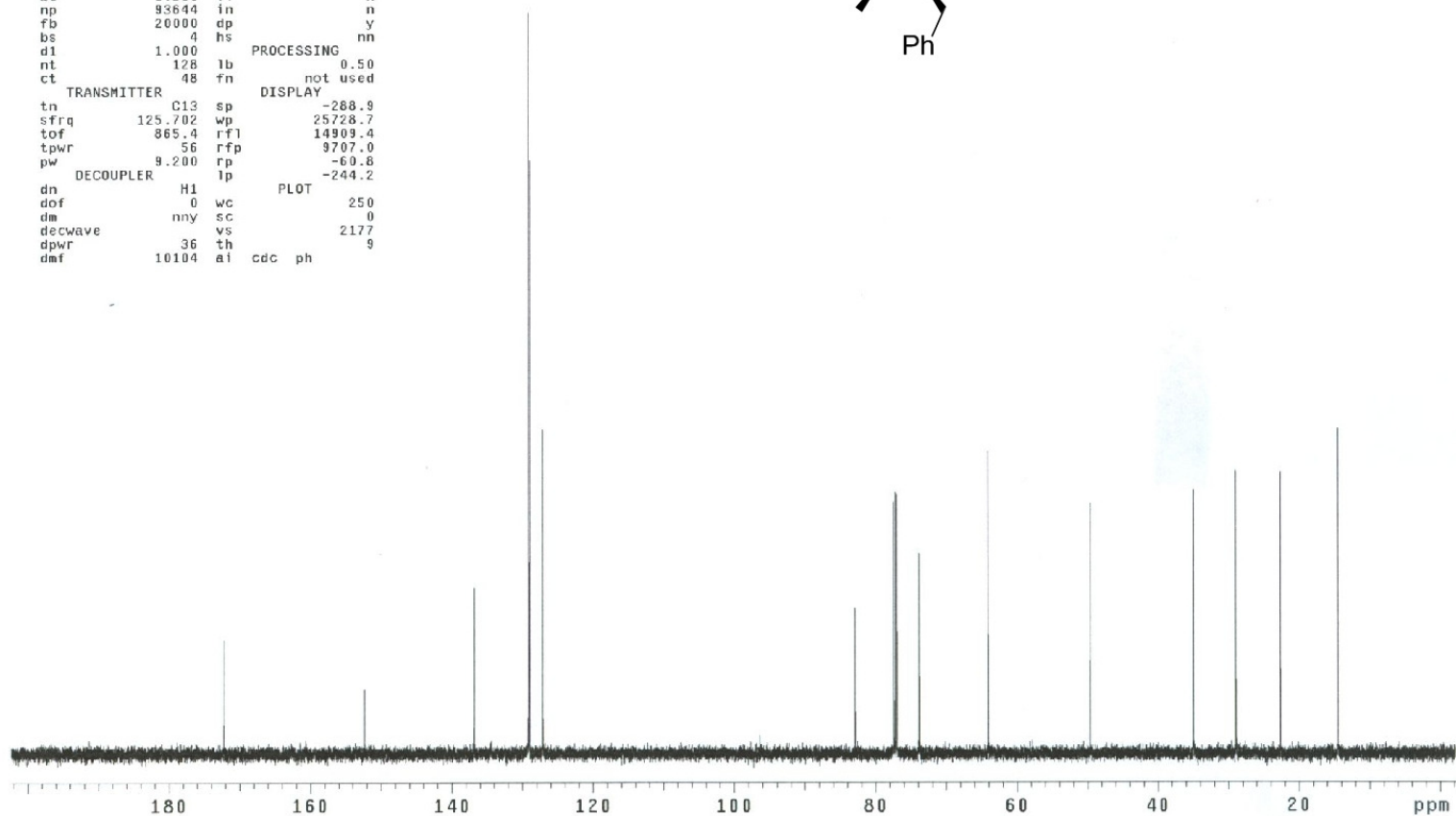
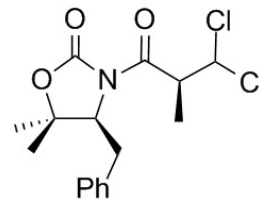
SAMPLE		DEC. & VT	
date	Sep 7 2009	dn	F19
solvent	cdc13	dof	0
file	exp	dm	nnn
ACQUISITION			
sfrq	499.859	dmm	c
tn	H1	dmf	200
at	2.732	temp	22.0
PROCESSING			
np	32768	lb	0.20
sw	5997.0	fn	32768
fb	3000	math	1
bs	4		
pw	10.0	werr	
pw	10.0	wexp	wft
tpwr	53	wbs	
d1	8.000	wnt	
tof	0	DISPLAY	
nt	8	sp	-61.3
cl	8	wp	4532.9
alock	n	vs	50
gain	not used	sc	0
FLAGS		wc	250
il	n	hzmm	18.37
in	n	is	257.19
dp	y	rfl	4132.1
hs	nn	rffp	3629.0
		th	6
		ins	1.000
		al	ph



snb-2-009-a-13C

exp1 CARBON

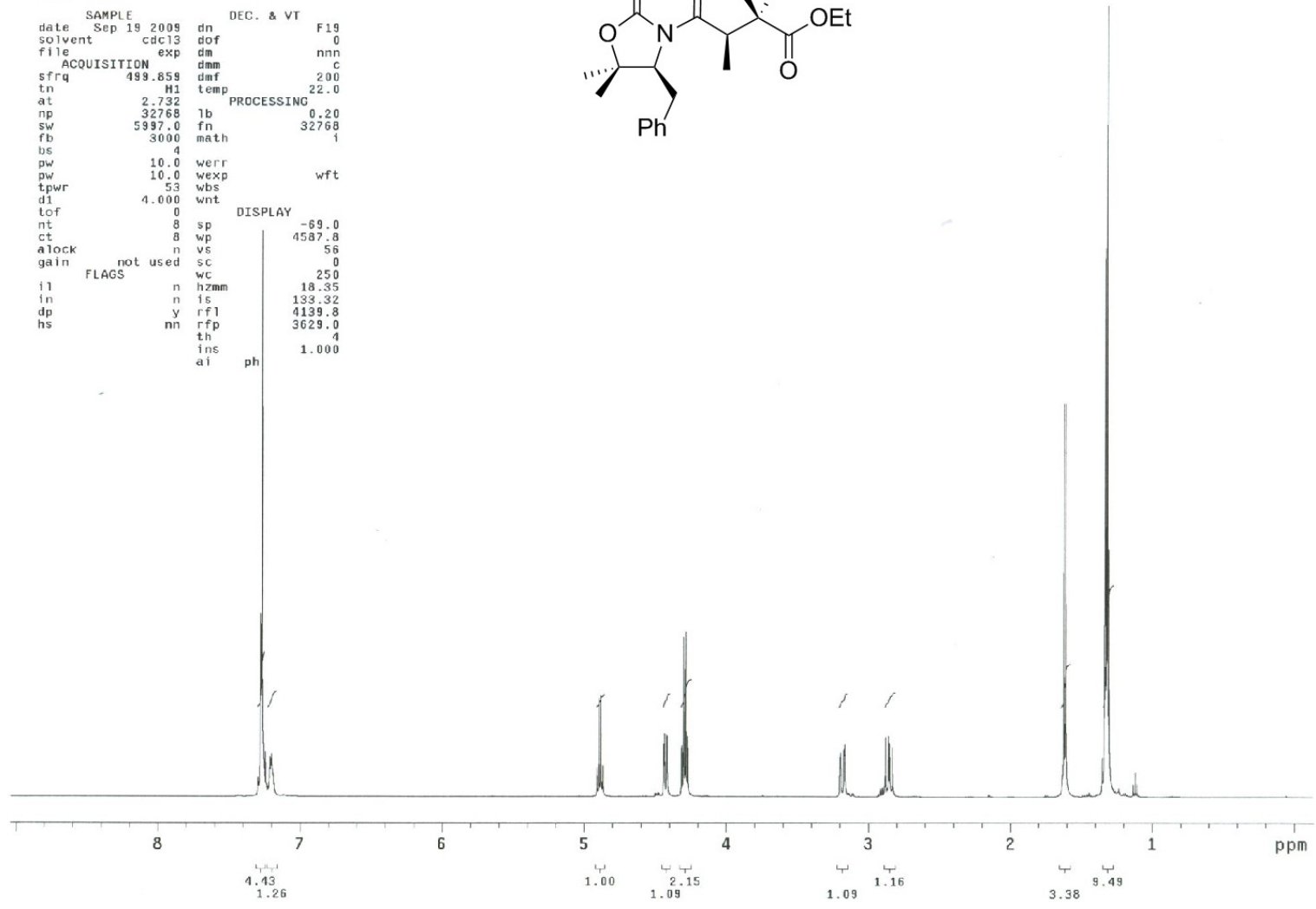
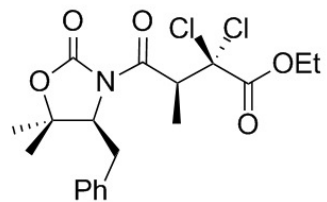
SAMPLE		SPECIAL	
date	Sep 7 2009	temp	22.0
solvent	CDCl3	gain	42
file	/home/Zakaria	spin	20
n/beaumont/snb-2-0		hst	0.008
19-a-13C.500.fid		pw90	9.200
ACQUISITION	alfa	10.000	
sw	36003.6	FLAGS	
at	1.300	il	n
np	93644	in	n
fb	20000	dp	y
bs	4	hs	nn
d1	1.000	PROCESSING	
nt	128	lb	0.50
ct	48	fn	not used
TRANSMITTER	C13	DISPLAY	
tn	C13	sp	-288.9
sfrq	125.702	wp	25728.7
tof	865.4	rfl	14909.4
tpwr	56	rfp	9707.0
pw	9.200	rp	-60.8
DECOUPLER	H1	lp	-244.2
dn	H1	PLOT	
dof	0	wc	250
dm	nyy	sc	0
decwave	36	vs	2177
dpwr	10104	th	9
dmf		ai	cdc ph



```

snb-2-041-a
exp1 s2pu1
SAMPLE
date Sep 19 2009 dn F19
solvent cdcl3 dof 0
file exp dm nnn
ACQUISITION dmm c
sfrq 499.859 dmf 200
tn H1 temp 22.0
at 2.732 PROCESSING
np 32768 lb 0.20
sw 5997.0 fn 32768
fb 3000 math i
bs 4
pw 10.0 werr
pw 10.0 wexp wft
tpwr 53 wbs
d1 4.000 wnt
DISPLAY
nt 8 sp -69.0
ct 8 wp 4587.8
alock n vs 56
gain not used sc 0
FLAGS wc 250
il n hzmm 18.35
in n ic 133.32
dp y rfl 4139.8
hs nn rfp 3629.0
ins 4
ai ph 1.000

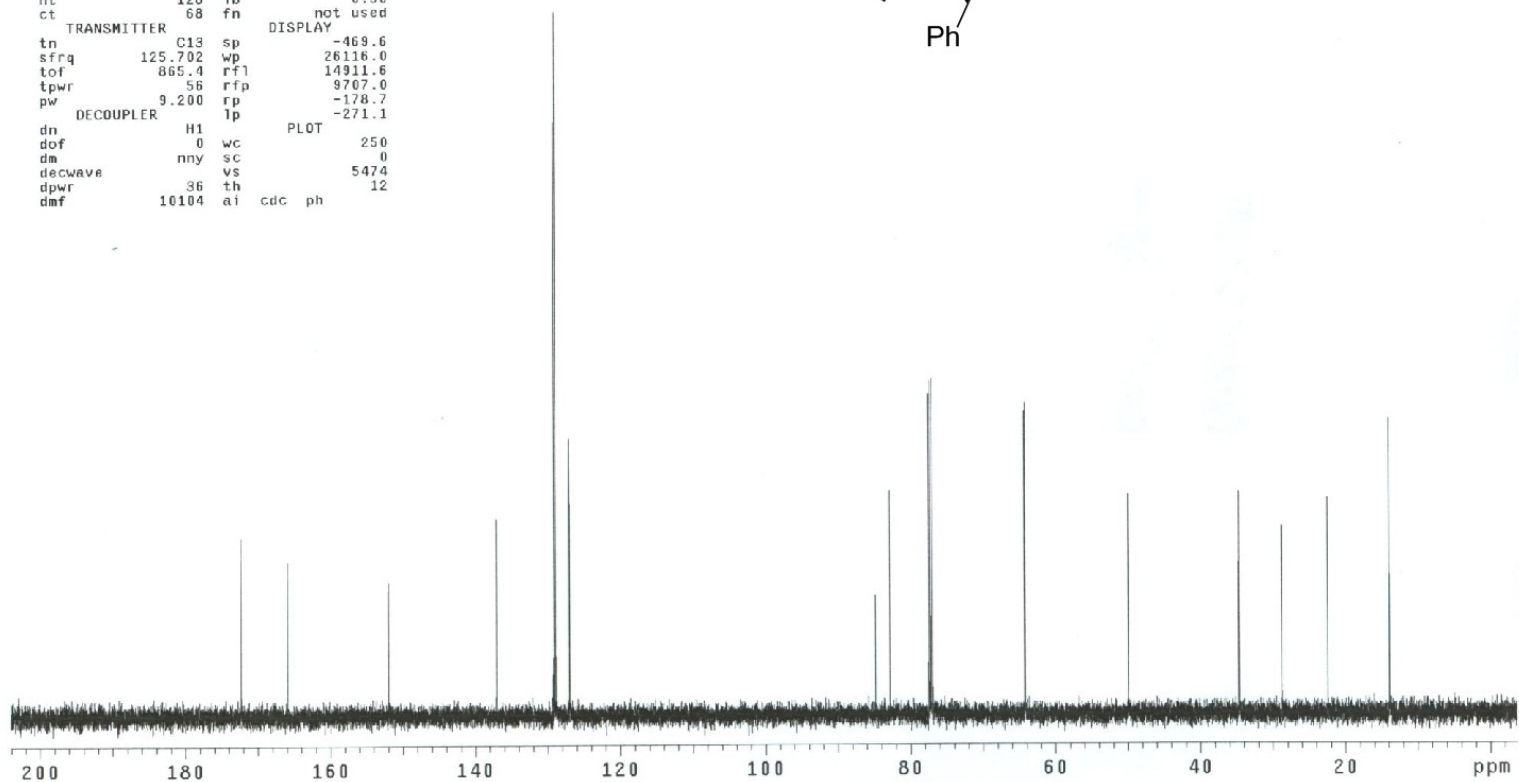
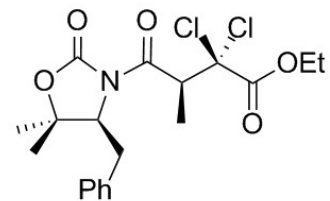
```



snb-2-034-a-13C

exp1 CARBON

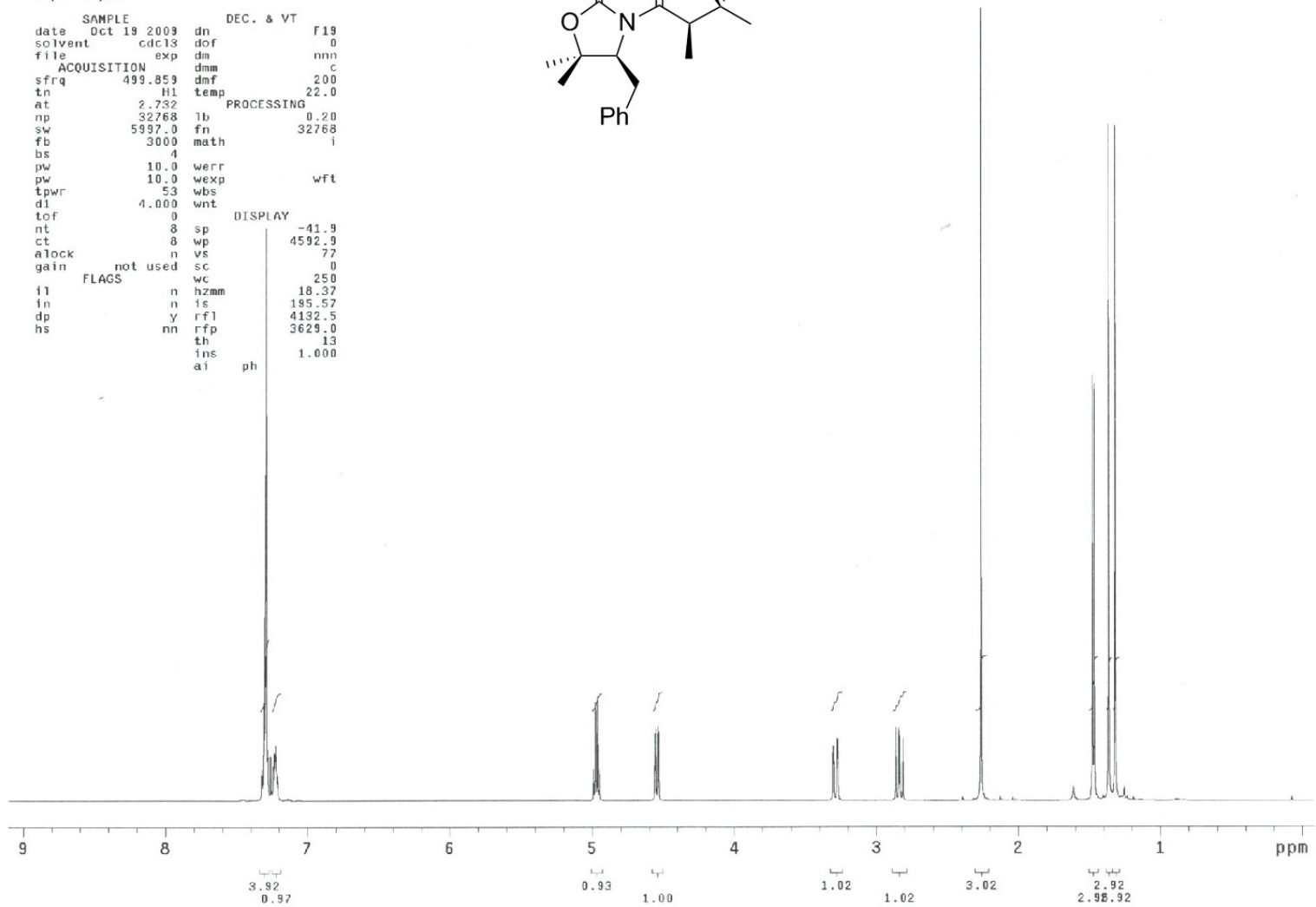
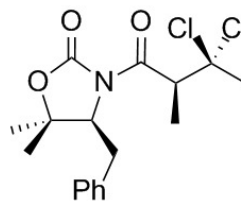
SAMPLE		SPECIAL	
date	Sep 16 2009	temp	22.0
solvent	CDCl3	gain	42
file	/home/Zakaria~	spin	20
n/beamont	/snb-2-0~	hst	0.008
41-a-13C.500.fid		pw90	9.200
ACQUISITION		alfa	10.000
sw	36003.6	FLAGS	
at	1.300	il	n
np	93644	in	n
fb	20000	dp	y
bs	4	hs	nn
d1	1.000	PROCESSING	
nt	128	lb	0.50
ct	68	fn	not used
TRANSMITTER	C13	DISPLAY	-469.6
tn		sp	26116.0
sfrq	125.702	wp	14911.6
tof	865.4	rfl	9707.0
tpwr	56	rp	-178.7
pw	9.200	lp	-271.1
DECOUPLER	H1	PLOT	
dn		wc	250
dof	0	sc	0
dm	nyy	vs	5474
decwave		th	
dpwr	36	tl	
dmf	10104	al	cdc ph





snb-2-084-a  
exp1 s2pu1

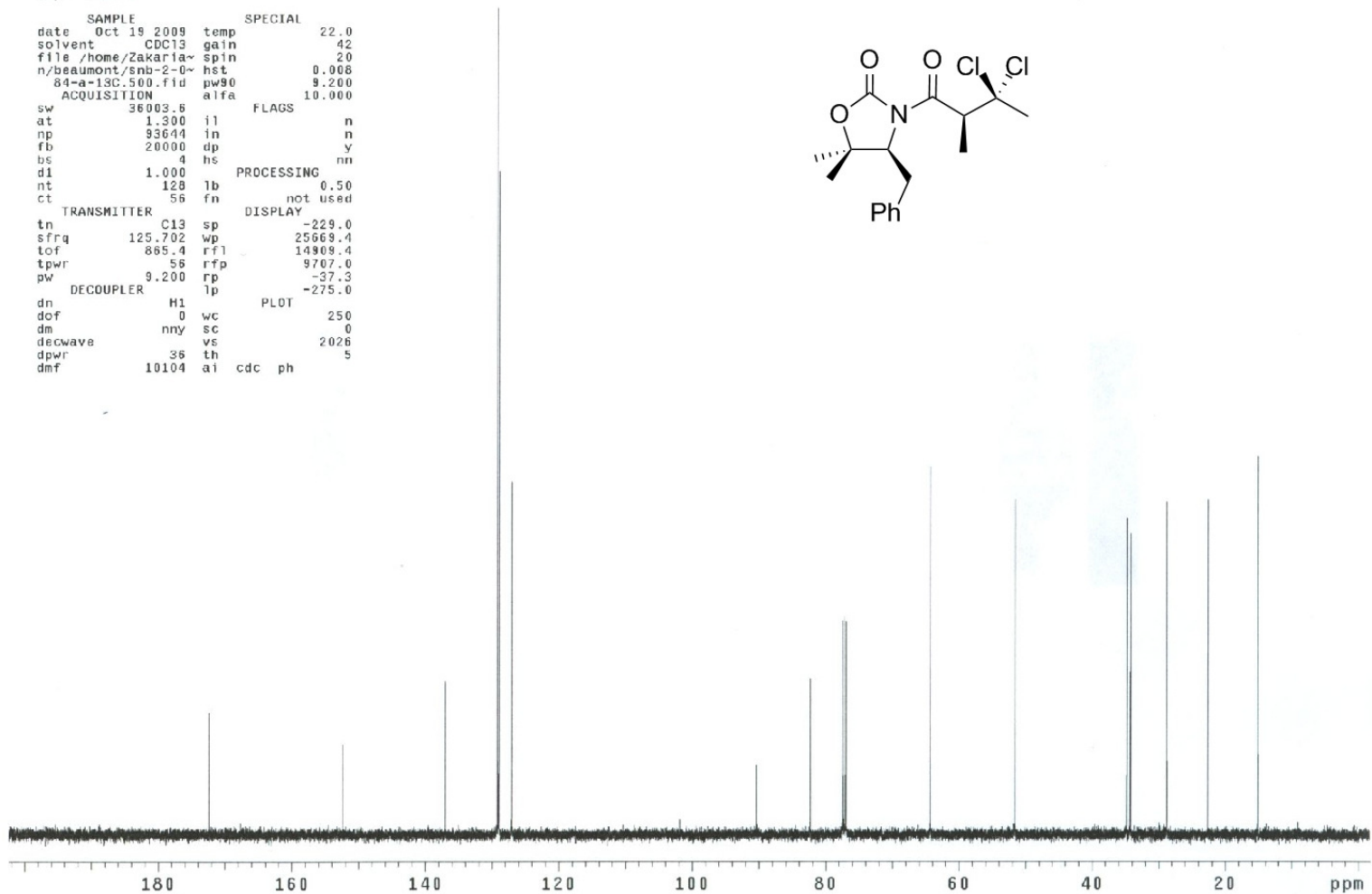
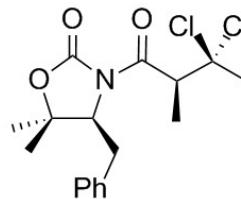
SAMPLE		DEC. & VT	
date	Oct 19 2009	dn	F19
solvent	cdcl3	dof	0
file	exp	dm	nmn
ACQUISITION		dmm	c
sfrq	499.859	dmf	200
tn	H1	temp	22.0
at	2.732	PROCESSING	
np	32768	lb	0.20
sw	5997.0	fn	32768
fb	3000	math	i
bs	4		
pw	10.0	werr	
pw	10.0	wexp	wft
tpwr	53	wbs	
d1	4.000	wnt	
tof	0	DISPLAY	
nt	8	sp	-41.9
ct	8	wp	4592.9
alock	n	vs	77
gain	not used	sc	0
FLAGS		wc	250
il	n	hzmm	18.37
in	n	fs	195.57
dp	y	rfl	4132.5
hs	mn	rffp	3629.0
		th	13
		ins	1.000
		ai	ph



snb-2-078-a-13C

exp1 CARBON

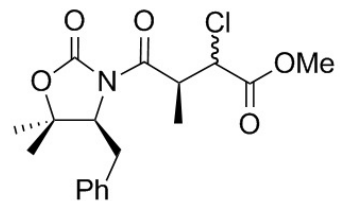
SAMPLE		SPECIAL	
date	Oct 19 2009	temp	22.0
solvent	CDCl3	gain	42
file	/home/Zakaria	spin	20
n/beamont	snb-2-0	hst	0.008
84-a-13C	500.fid	pw90	9.200
ACQUISITION		alfa	10.000
sw	36003.6	FLAGS	
at	1.300	il	n
np	93644	in	n
fb	20000	dp	y
bs	4	hs	nn
di	1.000	PROCESSING	
nt	128	lb	0.50
ct	56	fn	not used
TRANSMITTER		DISPLAY	
tn	C13	sp	-229.0
sfrq	125.702	wp	25669.4
tof	865.4	rfl	14909.4
tpwr	56	rfp	9707.0
pw	9.200	rp	-37.3
DECOUPLER		lp	-275.0
dn	H1	PLOT	
dof	0	wc	250
dm	nn	sc	0
decwave		vs	2026
dpwr	36	th	5
dmf	10104	ai	cdc ph



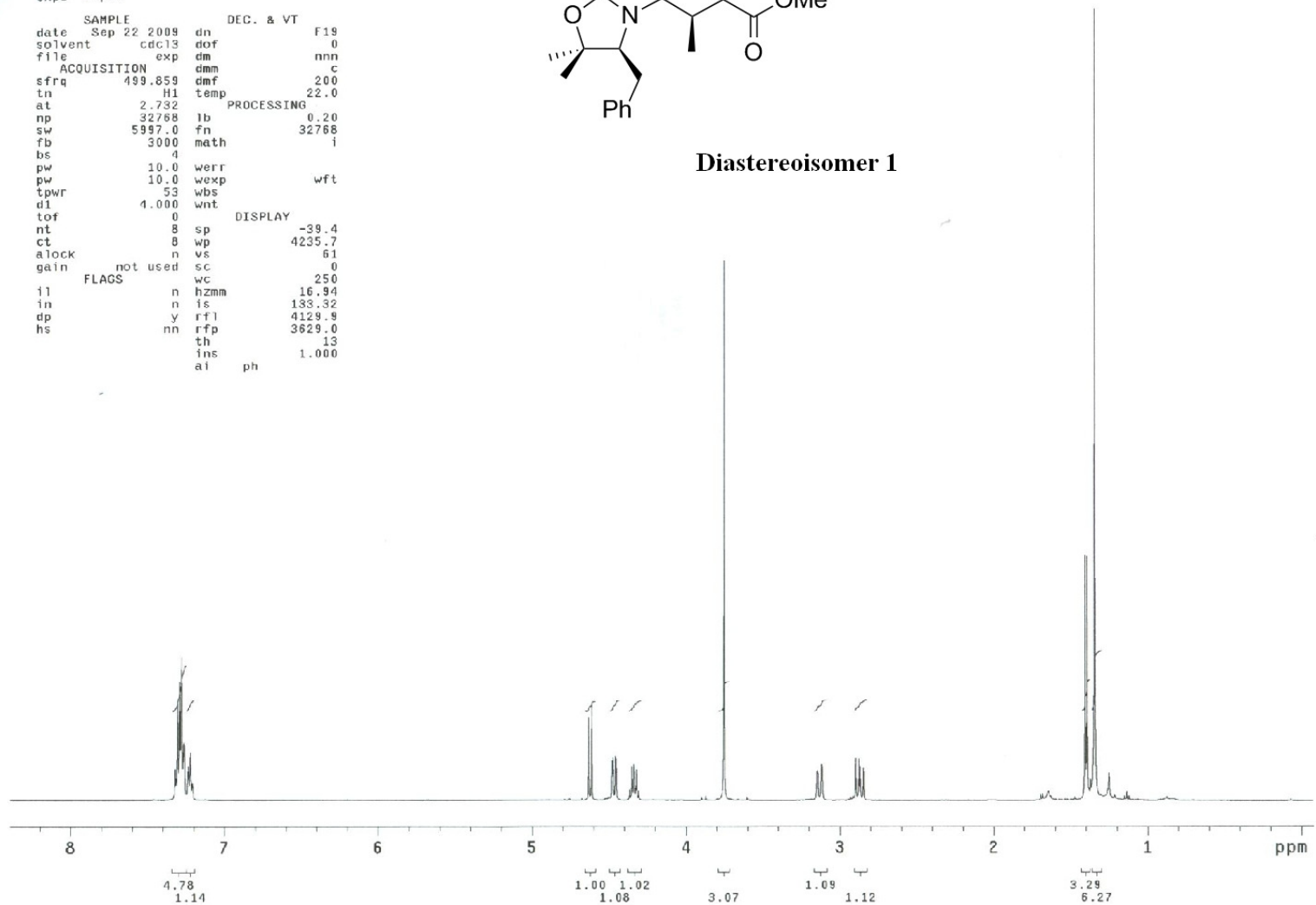
```

snb-2-046-a
exp1 s2pu1
SAMPLE
date Sep 22 2009 dn F19
solvent cdc13 dof 0
file exp dm nnn
ACQUISITION dmm c
sfrq 499.859 dmf 200
in H1 temp 22.0
at 2.732 PROCESSING
np 32768 lb 0.20
sw 5997.0 fn 32768
fb 3000 math i
bs 4
pw 10.0 werr
pw 10.0 wexp wft
tpwr 53 wbs
d1 1.000 wnt
tof 0 DISPLAY
nt 8 sp -39.4
ct 8 wp 4235.7
alock n vs 61
gain not used sc 0
FLAGS wc 250
il n hzmm 16.94
in n fs 133.32
dp y rfl 4129.9
hs nn rfp 3629.0
th 13
ins 1.000
al ph

```



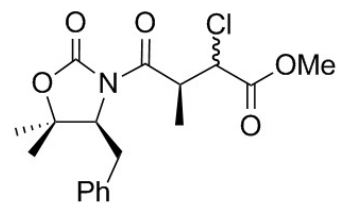
**Diastereoisomer 1**



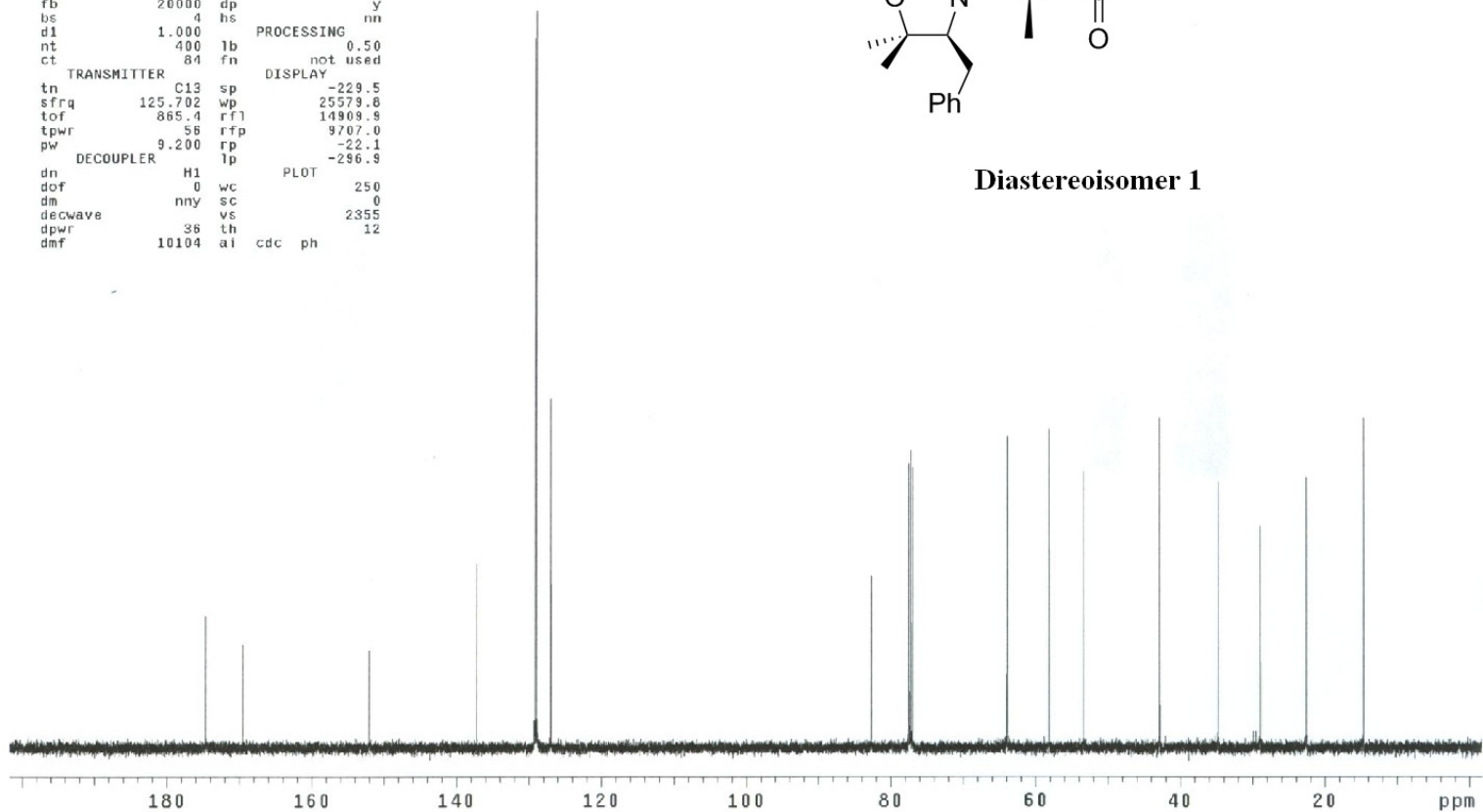
snb-2-046-a-13C

exp1 CARBON

SAMPLE		SPECIAL	
date	Sep 22 2009	temp	22.0
solvent	CDCl3	gain	42
file	/home/Zakaria	spin	20
n/beaumont/snb-2-0		hst	0.008
46-a-13C.500.fid		pw90	9.200
ACQUISITION	alpha	alpha	10.000
sw	36003.6	FLAGS	
at	1.300	il	n
np	93644	in	n
fb	20000	dp	y
bs	4	hs	nn
d1	1.000	PROCESSING	
nt	400	lb	0.50
ct	84	fn	not used
TRANSMITTER		DISPLAY	
tn	C13	sp	-229.5
sfrq	125.702	wp	25579.8
tof	865.4	rfl	14909.9
tpwr	56	rfp	9707.0
pw	9.200	rp	-22.1
DECOUPLER		lp	-296.9
dn	H1	PLOT	
dof	0	wc	250
dm	nny	sc	0
decwave		vs	2355
dpr	36	th	12
dmf	10104	ai	cdc ph



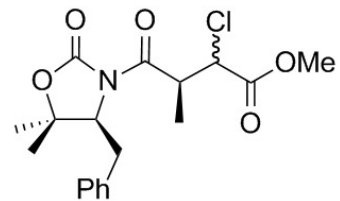
Diastereoisomer 1



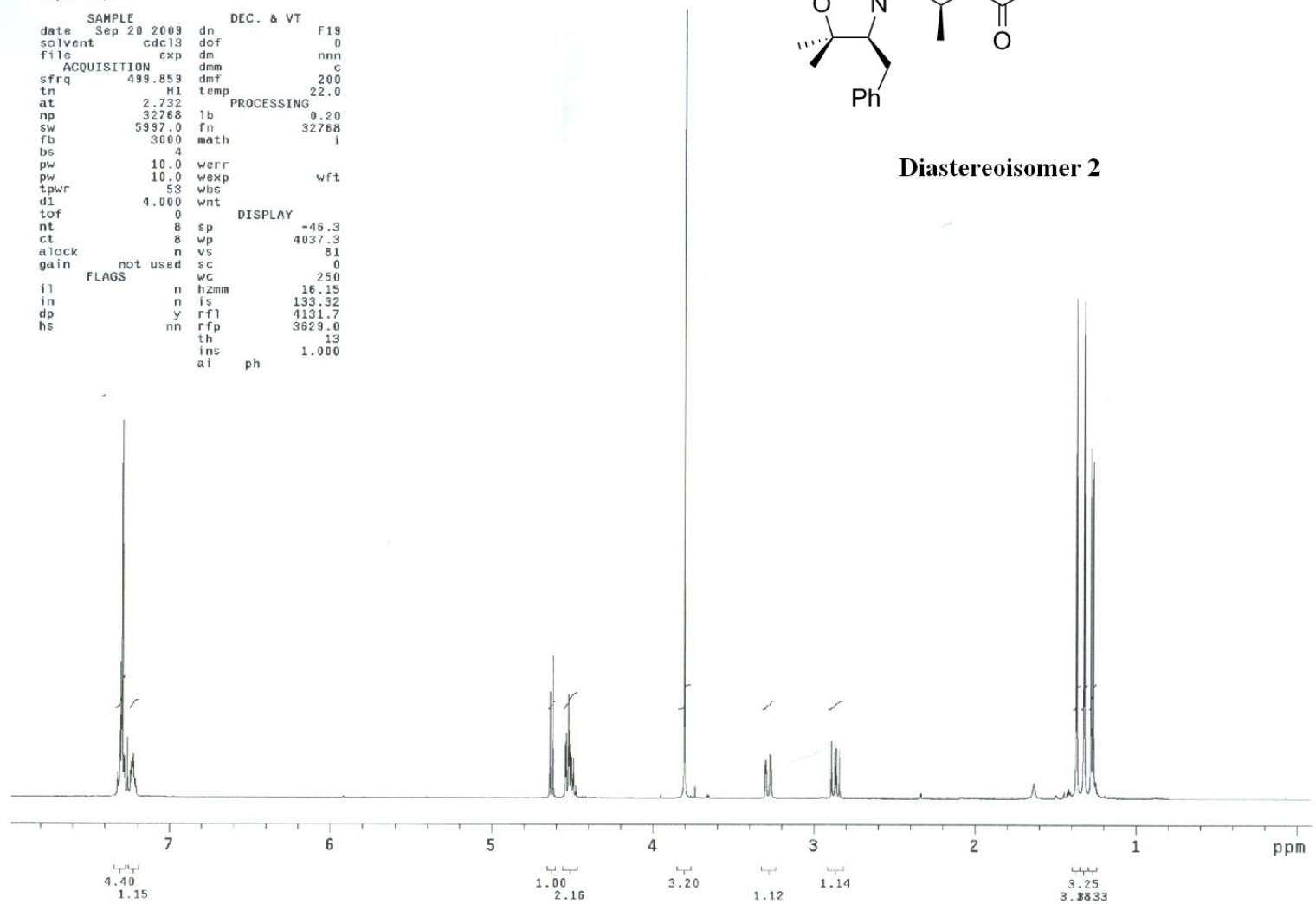
```

snb-2-046-b
exp1 s2pu1
SAMPLE          DEC. & VT
data Sep 20 2009 dn          F19
solvent cdc13  dof          0
file      exp  dm          nnn
ACQUISITION    dmm          C
sfrq 499.859  dmf          200
tn      H1    temp        22.0
at 2.732     PROCESSING
np 32768     lb          0.20
sw 5997.0   fn          32768
fb 3000     math         i
bs 4
pw 10.0     werr
pw 10.0     wexp          wft
tpwr 53     wbs
d1 4.000   wnt
tof 0
nt 8       sp          -46.3
ct 8       wp          4037.3
alock n     vs          81
gain not used sc          0
FLAGS      wc          250
il n       hzmm        16.15
in n       is          133.32
dp y       rfl         4131.7
hs nn      rfp         3629.0
                ch          13
                ins         1.000
                ai          ph

```



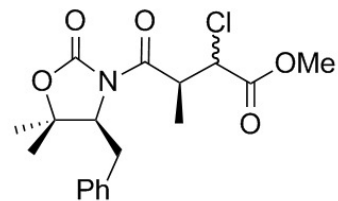
**Diastereoisomer 2**



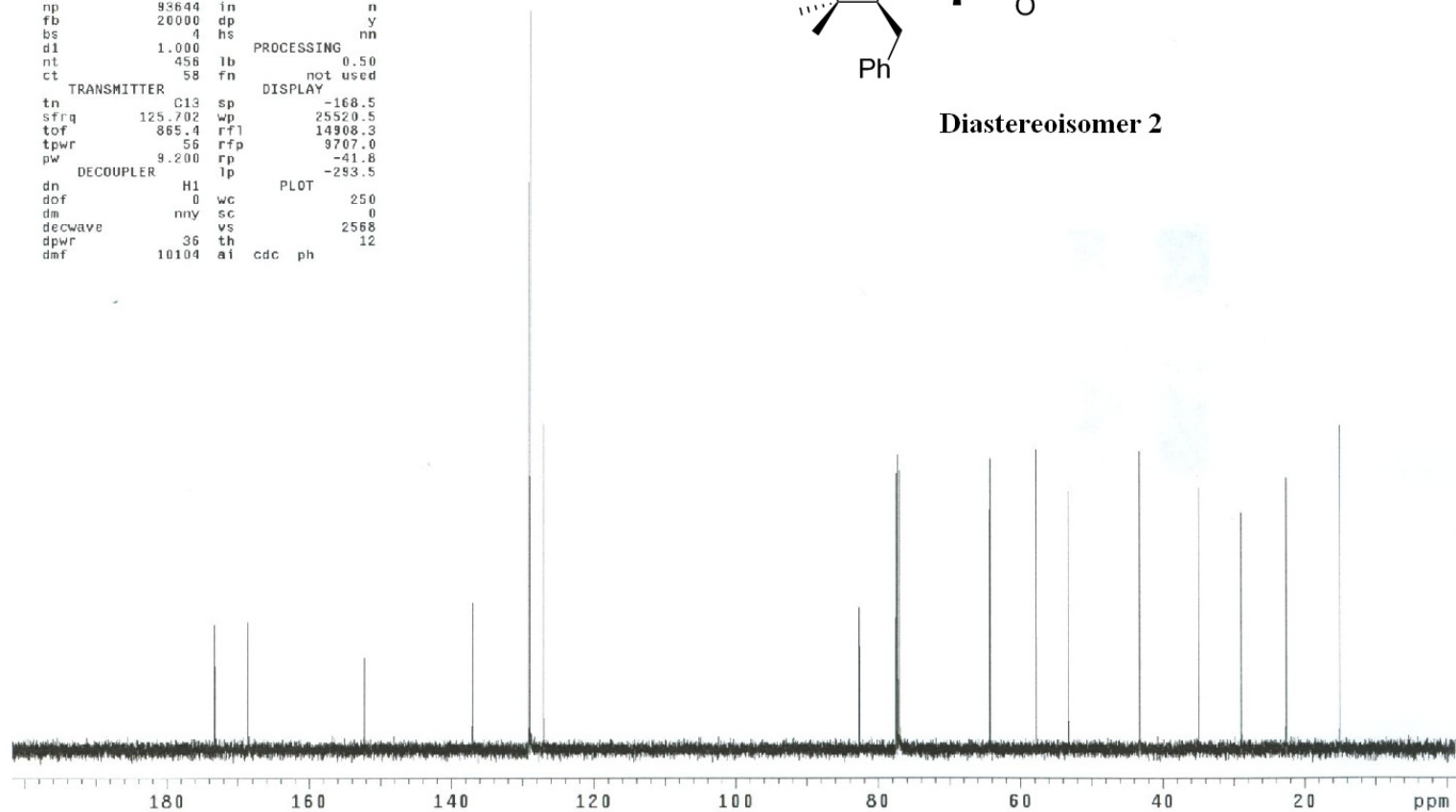
snb-2-046-b-13C

exp1 CARBON

SAMPLE		SPECIAL	
date	Sep 20 2009	temp	22.0
solvent	CDCl3	gain	42
file	/home/Zakaria-	spin	20
n/beamont/snb-2-0-		hst	0.008
46-b-13C.500.fid		pw90	9.200
ACQUISITION		alfa	10.000
sw	36003.6	FLAGS	
at	1.300	il	n
np	93644	in	n
fb	20000	dp	y
bs	4	hs	nn
d1	1.000	PROCESSING	
nt	456	lb	0.50
ct	58	fn	not used
TRANSMITTER		DISPLAY	
tn	C13	sp	-168.5
sfrq	125.702	wp	25520.5
tof	865.4	rf1	14908.3
tpwr	56	rfp	9707.0
pw	9.200	rp	-41.8
DECOUPLER		lp	-293.5
dn	H1	PLOT	
dof	0	wc	250
dm	nyy	sc	0
decwave		vs	2568
dpwr	36	th	
dmf	10104	ai	cdc ph



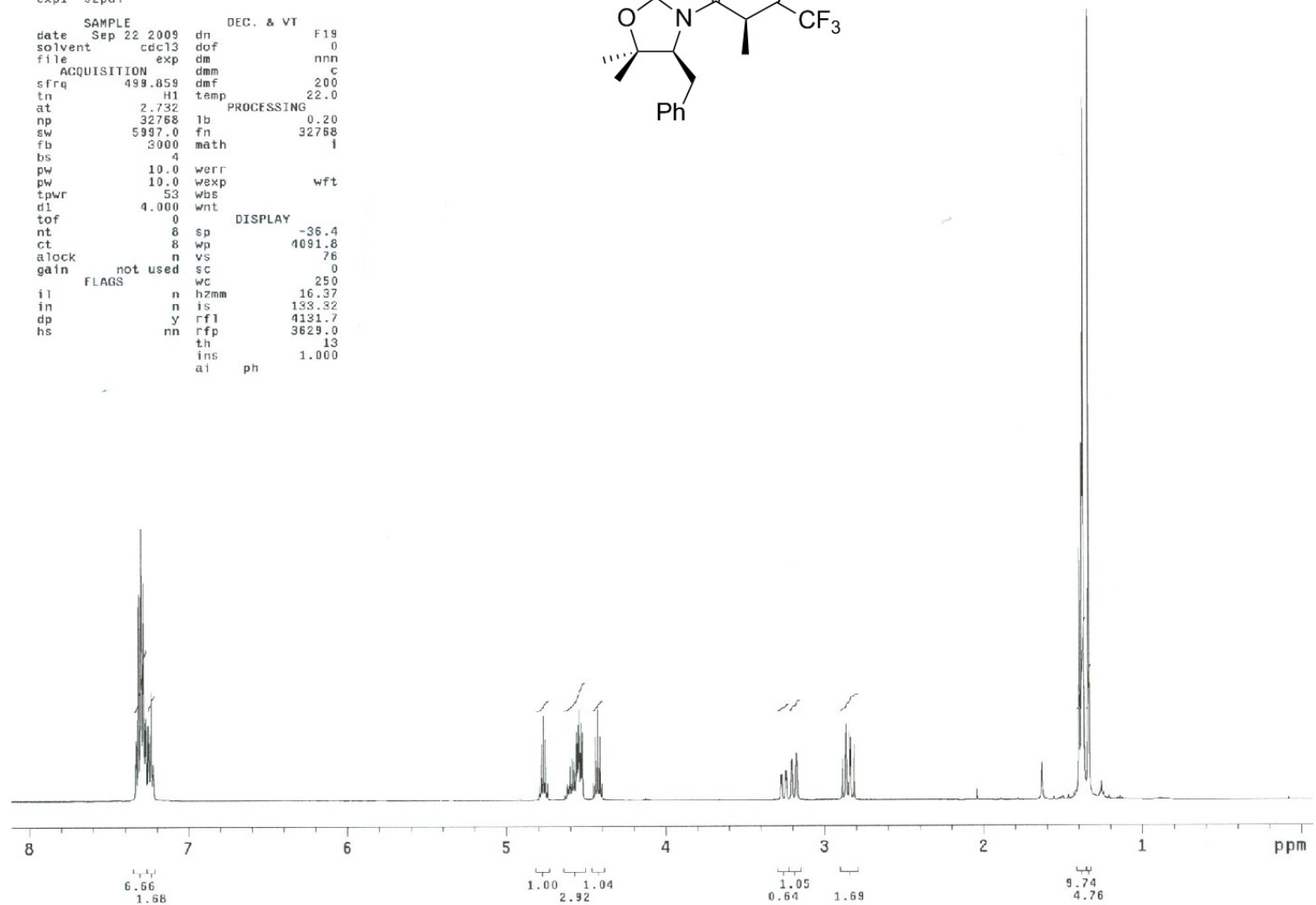
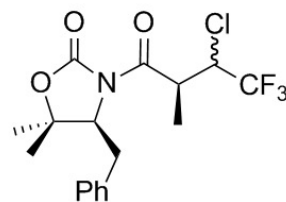
Diastereoisomer 2



snb-2-050-a

exp1 s2pu1

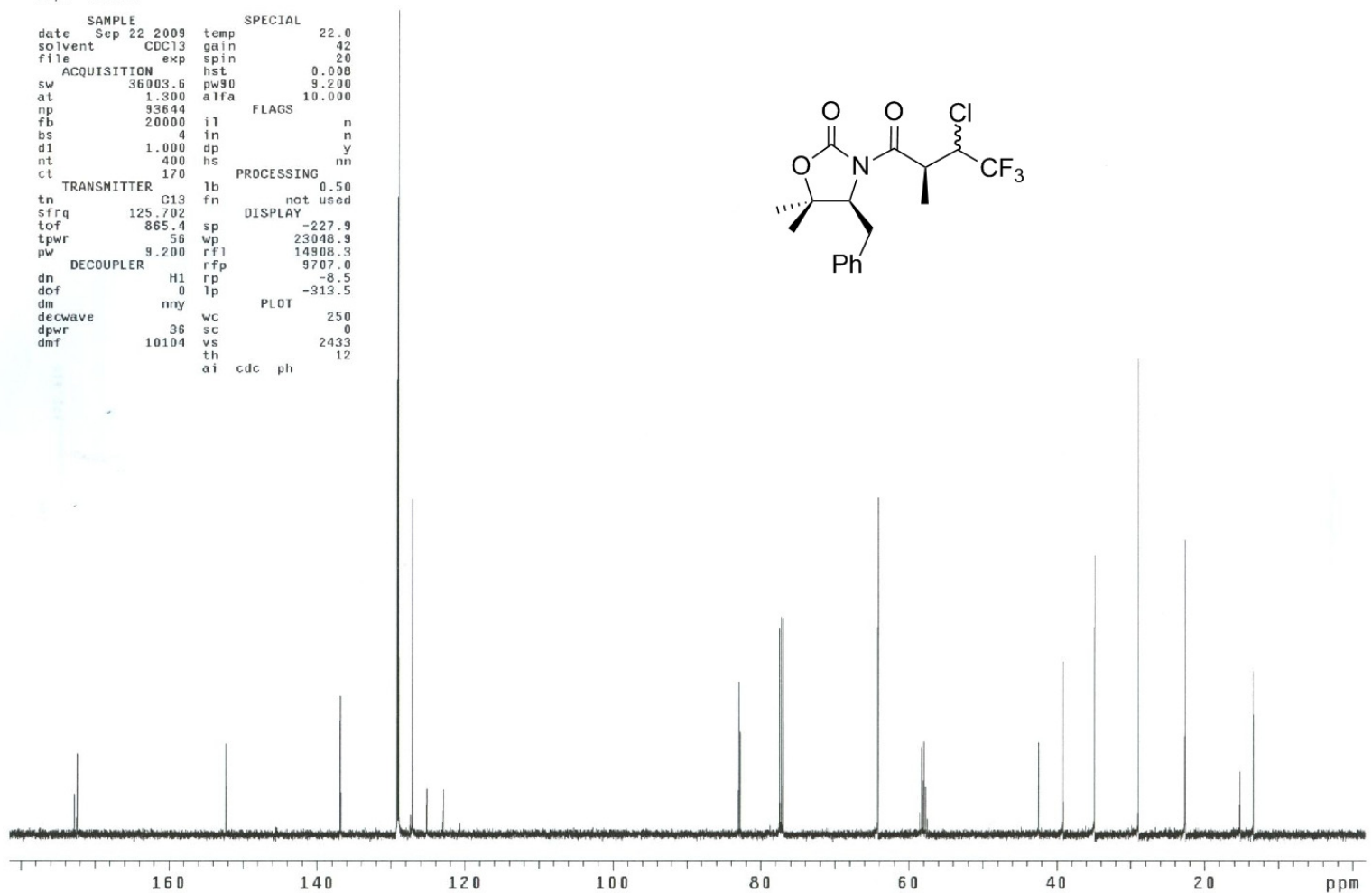
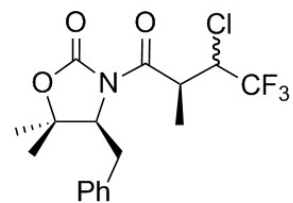
SAMPLE		DEC. & VT	
date	Sep 22 2009	dn	F19
solvent	cdcl3	dof	0
file	exp	dmm	nnn
ACQUISITION		dmf	c
sfrq	499.859	dmf	200
tn	H1	temp	22.0
at	2.732	PROCESSING	
np	32768	lb	0.20
sw	5997.0	fn	32768
fb	3000	math	1
bs	4		
pw	10.0	werr	
pw	10.0	wexp	wft
tpwr	53	wbs	
d1	4.000	wnt	
tof	0	DISPLAY	
nt	8	sp	-36.4
ct	8	wp	4091.8
alock	n	vs	76
gain	not used	sc	0
FLAGS		wc	250
il	n	hzmm	16.37
in	n	is	133.32
dp	y	rfl	4131.7
hs	nn	rfp	3629.0
		th	13
		ins	1.000
		ai	ph



snb-2-050-a-13C

exp1 CARBON

SAMPLE		SPECIAL	
date	Sep 22 2009	temp	22.0
solvent	CDC13	gain	42
file	exp	spin	20
ACQUISITION			
sw	36003.6	hst	0.008
at	1.300	pw90	9.200
np	93644	alfa	10.000
		FLAGS	
fb	20000	il	n
bs	4	in	n
d1	1.000	dp	y
nt	400	hs	nn
ct	170	PROCESSING	
tn	C13	lb	0.50
sfrq	125.702	fn	not used
tof	865.4	sp	-227.9
tpwr	56	wp	23048.9
pw	9.200	rfl	14908.9
DECOUPLER		rfp	9707.0
dn	H1	rp	-8.5
dof	0	lp	-313.5
dm	nny	PLOT	
decwave		wc	250
dpwr	36	sc	0
dmf	10104	vs	2433
		th	12
		ai	cdc ph

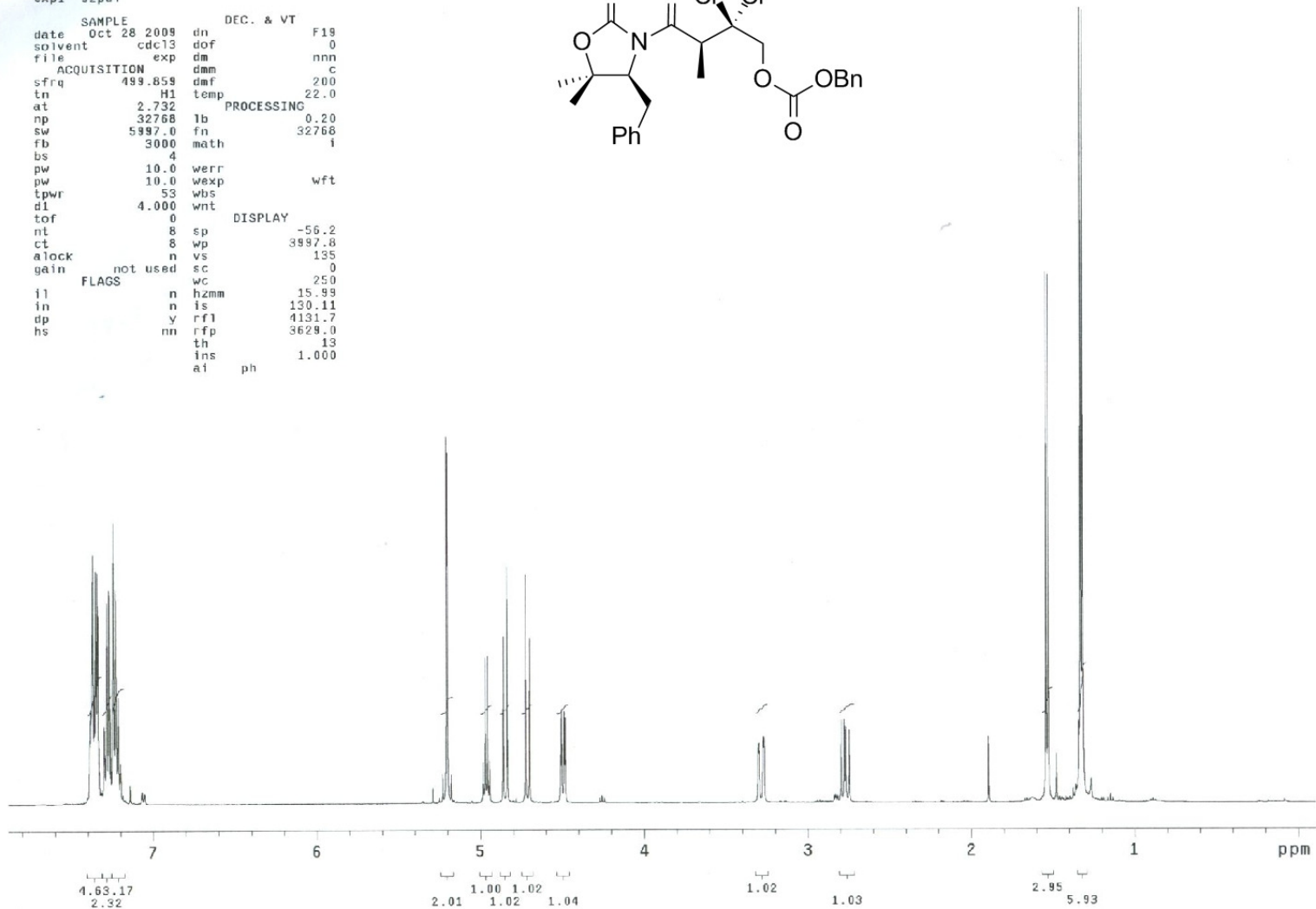
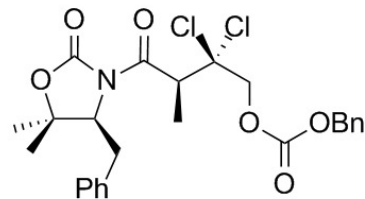




snb-2-095-a

exp1 s2pu1

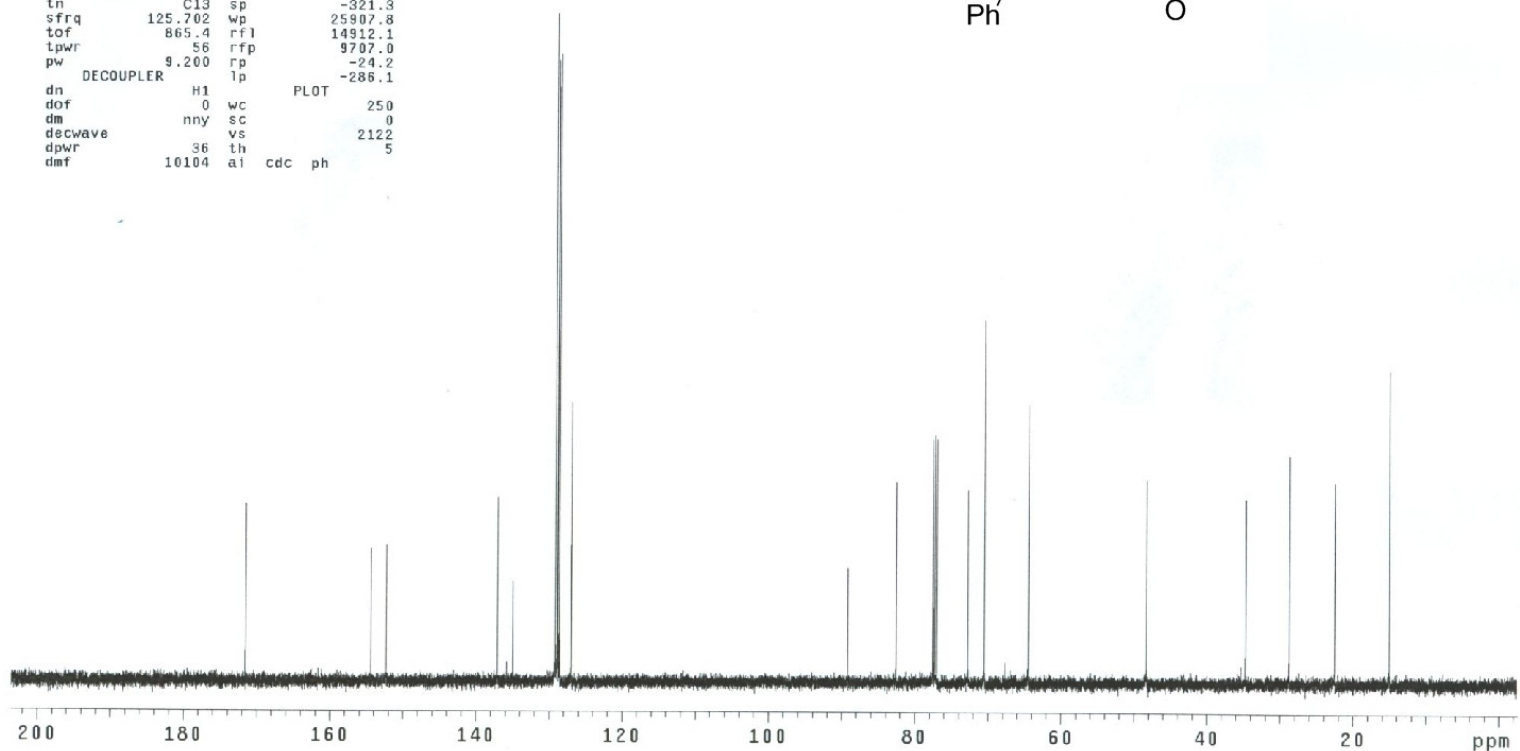
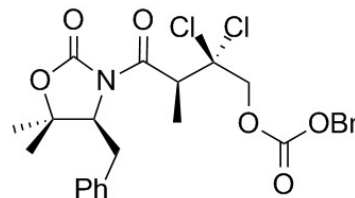
date	Oct 28 2009	dn	F19
solvent	cdc13	dof	0
file	exp	dm	nnn
ACQUISITION		dmm	c
sfrq	499.859	dmf	200
tn	H1	temp	22.0
at	2.732	PROCESSING	
np	32768	tb	0.20
sw	5997.0	fn	32768
fb	3000	math	i
bs	4		
pw	10.0	werr	
pw	10.0	wexp	wft
tpwr	53	wbs	
dl	4.000	wnt	
tof	0	DISPLAY	
nt	8	sp	-56.2
ct	8	wp	3997.8
alock	n	vs	135
gain	not used	sc	0
FLAGS		wc	250
il	n	hzmm	15.99
in	n	is	130.11
dp	y	rfl	4131.7
hs	nn	rfp	3629.0
		th	13
		ins	1.000
		ai	ph



snb-2-095-a-13C

exp1 CARBON

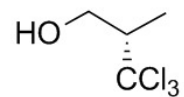
SAMPLE		SPECIAL	
date	Oct 28 2009	temp	22.0
solvent	CDC13	gain	42
file	/home/Zakaria~	spin	20
n/beamont/snb-2-0~		hst	0.008
95-a-13C.500.fid		pw90	9.200
ACQUISITION		alfa	10.000
sw	36003.6	FLAGS	
at	1.300	fl	n
np	93644	in	n
fb	20000	dp	y
bs	4	hs	nn
d1	1.000	PROCESSING	
nt	128	lb	0.50
ct	57	fn	not used
TRANSMITTER		DISPLAY	
tn	C13	sp	-321.3
sfrq	125.702	wp	25907.8
tof	865.4	rfl	14912.1
lpwr	56	rfp	9707.0
pw	9.200	rp	-24.2
DECOUPLER		lp	-286.1
dn	H1	PLOT	
dof	0	wc	250
dm	nny	sc	0
dscwave		vs	2122
dpwr	36	th	5
dmf	10104	ai	cdc ph



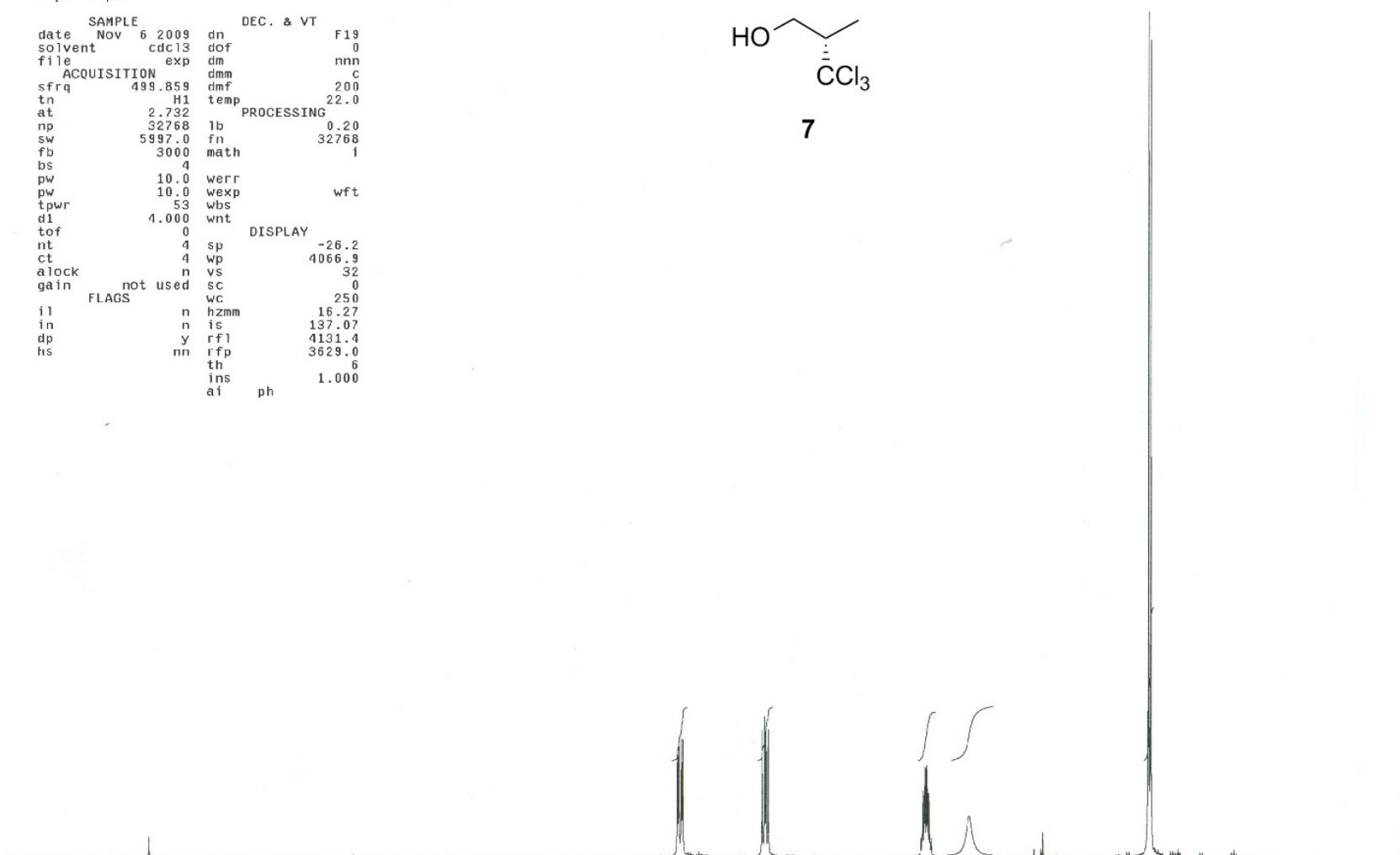
snb-2-017-a

exp1 s2pu1

SAMPLE		DEC. & VT	
date	Nov 6 2009	dn	F19
solvent	cdc13	dof	0
file	exp	dm	nnn
ACQUISITION			
sfrq	499.859	dmm	c
tn	H1	dmf	200
at	2.732	temp	22.0
PROCESSING			
np	32768	lb	0.20
sw	5997.0	fn	32768
fb	3000	math	1
bs	4		
pw	10.0	werr	
pw	10.0	wexp	wft
tpwr	53	wbs	
d1	4.000	wnt	
tof	0	DISPLAY	
nt	4	sp	-26.2
ct	4	wp	4066.9
alock	n	vs	32
gain	not used	sc	0
FLAGS		wc	250
il	n	hzmm	16.27
in	n	is	137.07
dp	y	rfl	4131.4
hs	nn	rfp	3629.0
		th	6
		ins	1.000
		ai	ph



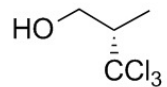
7



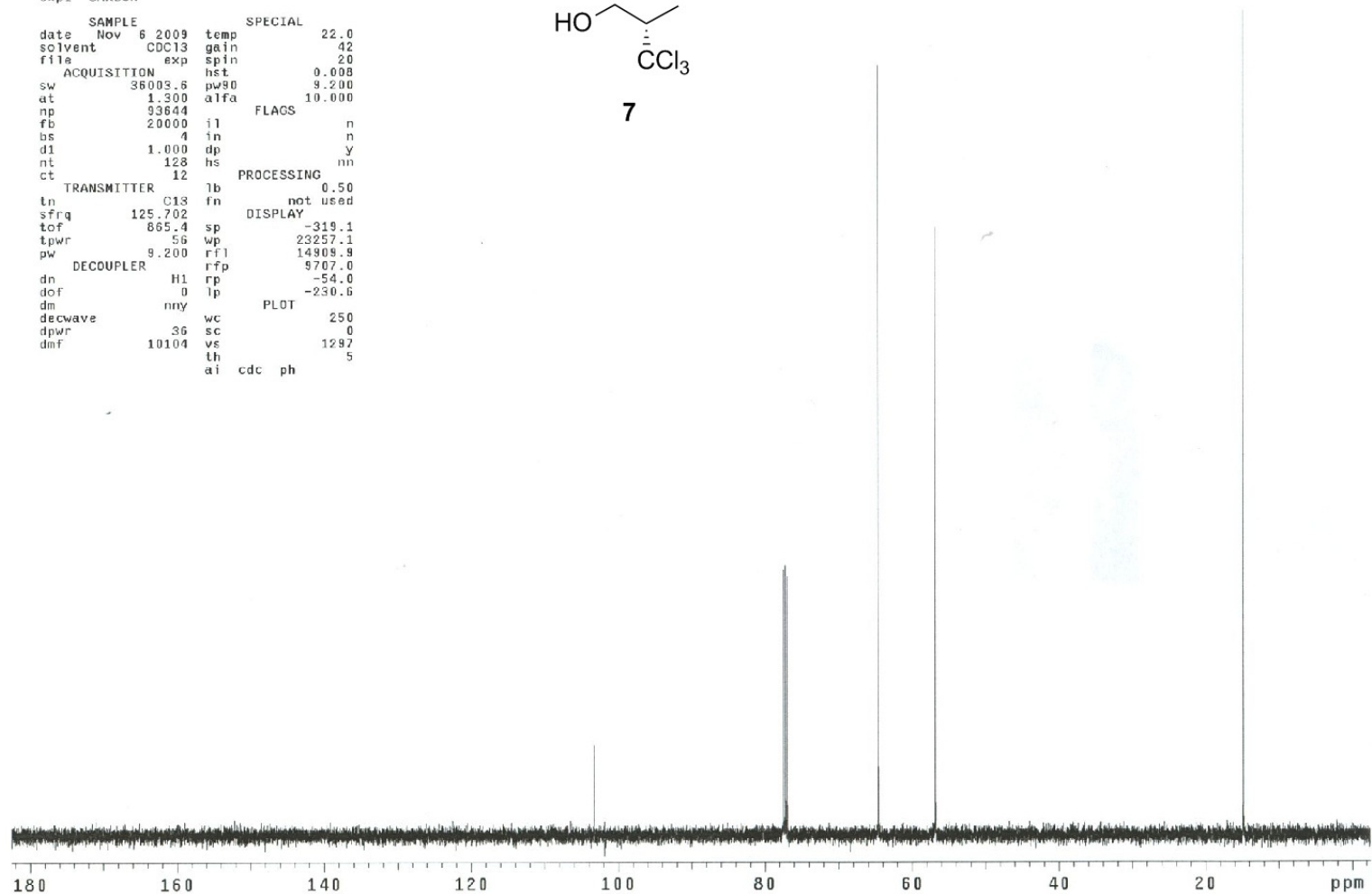
snb-2-078-a-13C

exp1 CARBON

SAMPLE		SPECIAL	
date	Nov 6 2009	temp	22.0
solvent	CDCl3	gain	42
file	exp	spin	20
ACQUISITION			
sw	36003.6	hst	0.008
at	1.300	pw90	9.200
np	93644	alfa	10.000
fb	20000	FLACS	
bs	4	il	n
d1	1.000	in	n
nt	128	dp	y
ct	12	hs	nn
TRANSMITTER		PROCESSING	
tn	C13	lb	0.50
sfrq	125.702	fn	not used
tof	865.4	DISPLAY	
tpwr	56	sp	-319.1
pw	9.200	wp	23257.1
DECOUPLER		rfl	14909.9
dn	H1	rfp	9707.0
dof	0	rp	-54.0
dm	nyy	lp	-230.6
decwave		PLOT	
dpwr	36	wc	250
dmf	10104	sc	0
		vs	1297
		lh	5
		ai	cdc ph



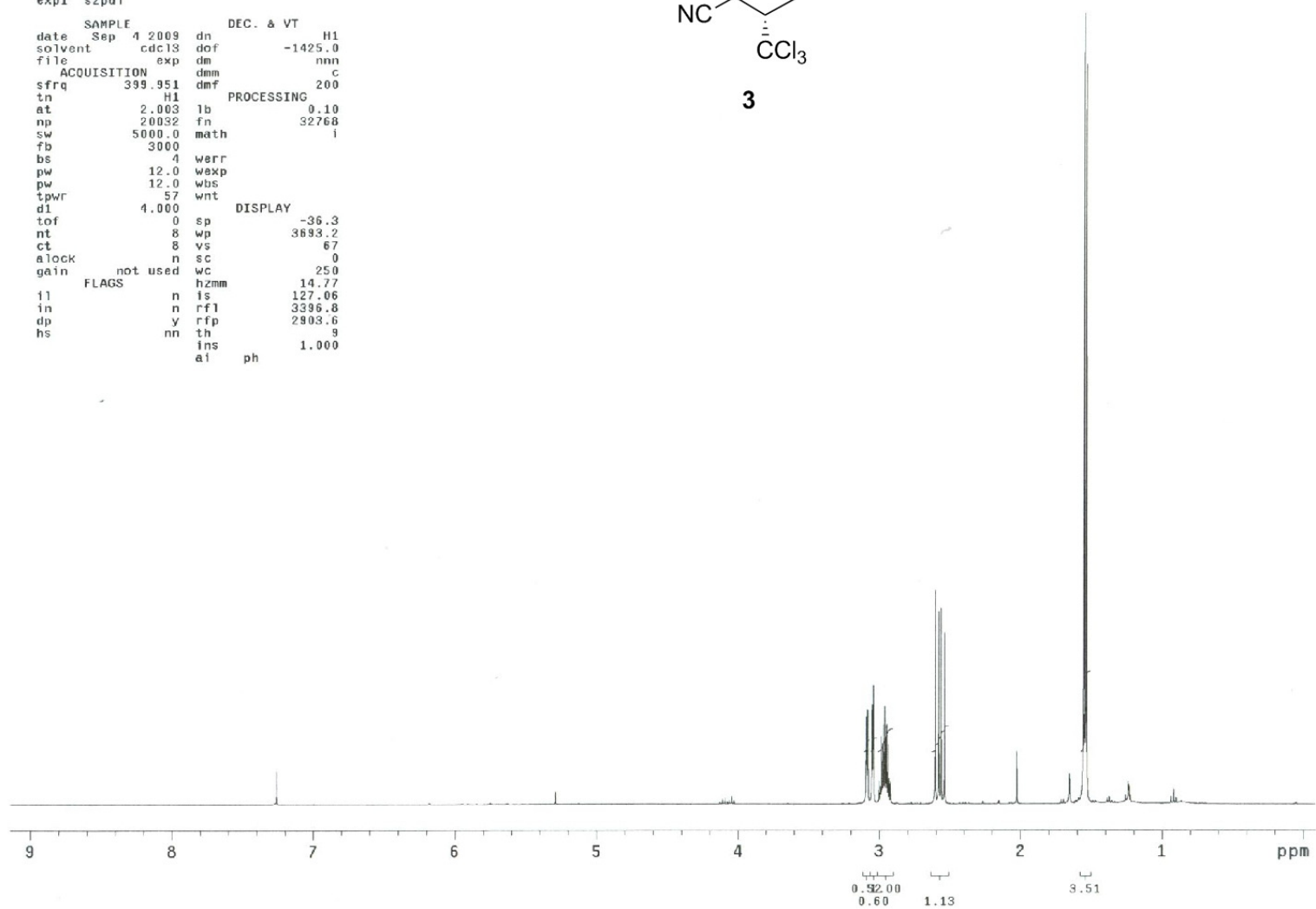
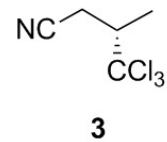
7



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snb-2-020-a
exp1 s2pu1
SAMPLE          DEC. & VT
date Sep 4 2009 dn H1
solvent cdc13 dof -1425.0
file exp dm nnn
ACQUISITION    dmm c
sfrq 399.951 dmf 200
tn H1 PROCESSING
at 2.003 lb 0.10
np 20032 fn 32768
sw 5000.0 math i
fb 3000
bs 4 werr
pw 12.0 wexp
pw 12.0 wbs
tpwr 57 wnt
dl 4.000 DISPLAY
tof 0 sp -36.3
nt 8 wp 3683.2
ct 8 vs 67
alock n sc 0
gain not used wc 250
FLAGS hzmm 14.77
ll n ls 127.06
in n rfl 3396.8
dp y rfp 2903.6
hs nn th 9
ins
al ph 1.000

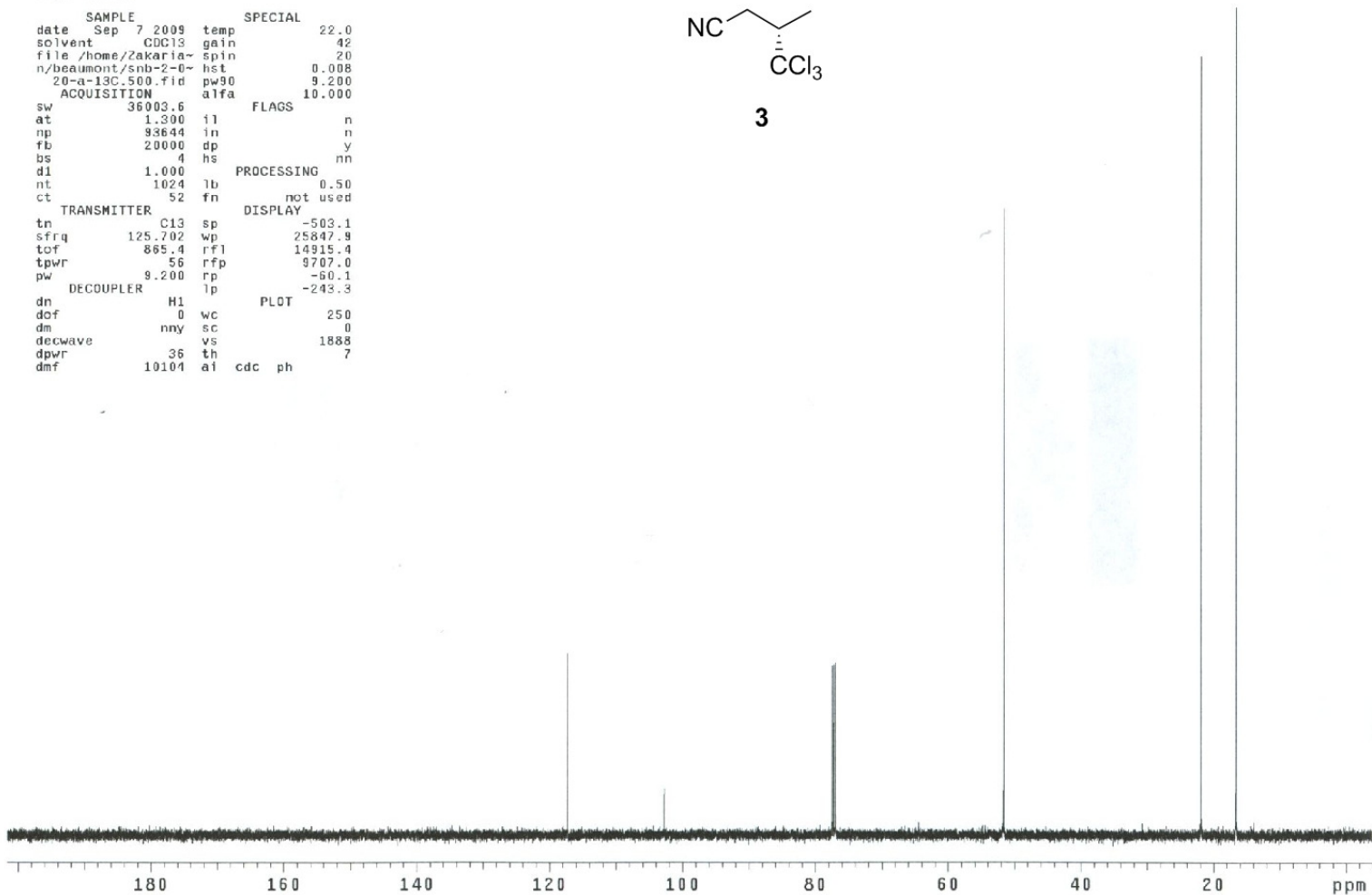
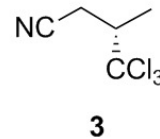
```



```

snb-2-020-a-13C
exp1 CARBON
SAMPLE
date Sep 7 2009 temp 22.0
solvent CDCl3 gain 42
file /home/Zakaria~ spin 20
n/beamont/snb-2-0~ hst 0.008
20-a-13C_500.fid pw90 9.200
ACQUISITION alfa 10.000
sw 36003.6 FLAGS
at 1.300 il n
np 93644 in n
fb 20000 dp y
bs 4 hs nn
d1 1.000 PROCESSING
nt 1024 lb 0.50
ct 52 fn not used
TRANSMITTER C13 DISPLAY
tn C13 sp -503.1
sfrq 125.702 wp 25847.9
tof 865.4 rfl 14915.4
tpwr 56 rfp 9707.0
pw 9.200 rp -60.1
DECOUPLER H1 lp -243.3
dn H1 PLOT
dof 0 wc 250
dm nny sc 0
decwave vs 1888
dpwr 36 th 7
dmf 10104 al cdc ph

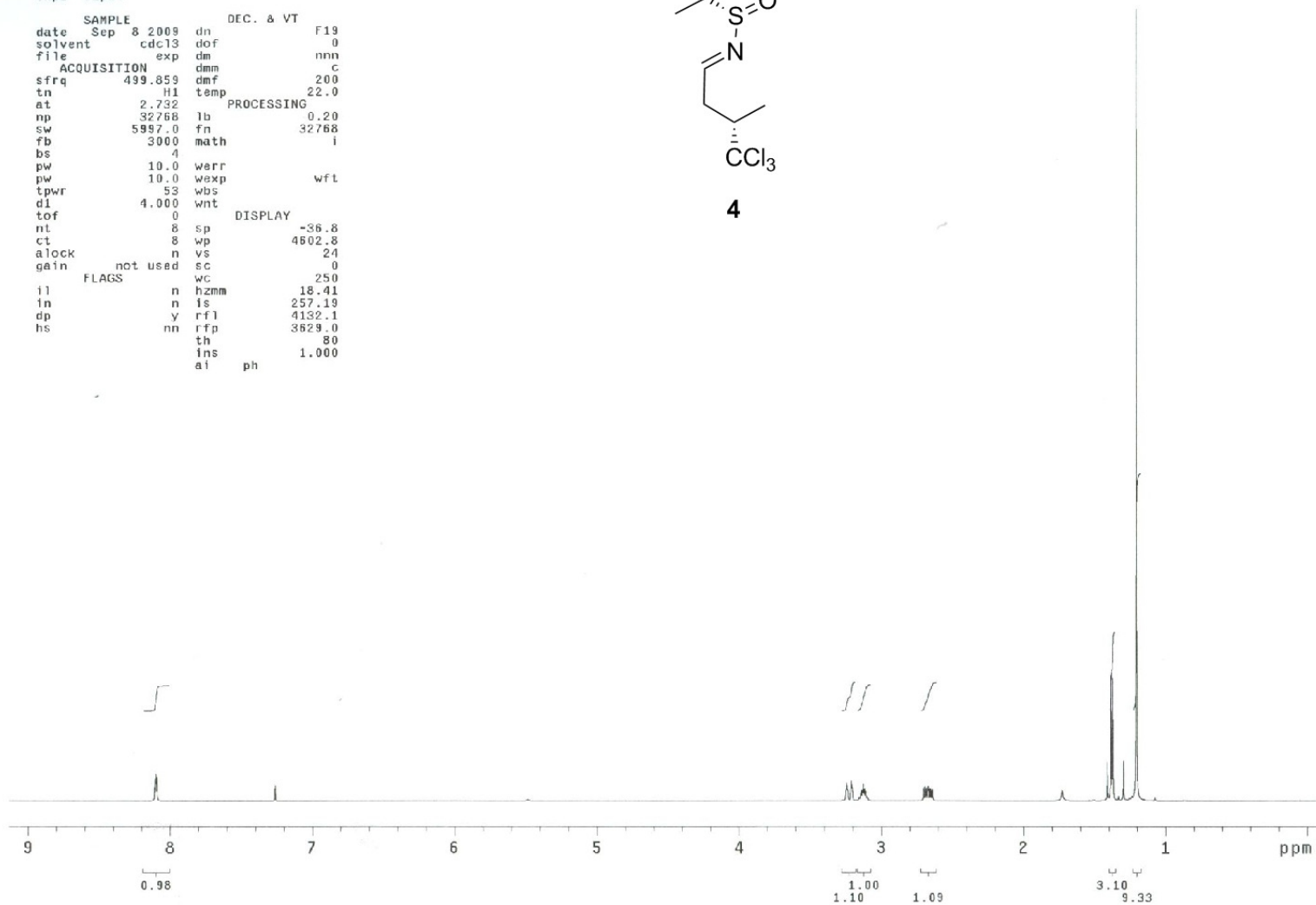
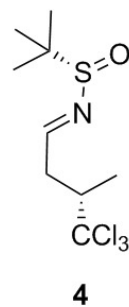
```



```

snb-2-024-a
exp1 s2pu1
SAMPLE DEC. & VT
date Sep 8 2009 dn F19
solvent cdc13 dof 0
file exp dm nnn
ACQUISITION dmm c
sfrq 499.859 dmf 200
tn H1 temp 22.0
at 2.732 PROCESSING
np 32768 lb 0.20
sw 5997.0 fn 32768
fb 3000 math i
bs 4
pw 10.0 warr
pw 10.0 wexp wft
tpwr 53 wbs
d1 4.000 wnt
tof 0 DISPLAY
nt 8 sp -36.8
ct 8 wp 4602.8
alock n vs 24
gain not used sc 0
FLAGS wc 250
il n hzmm 18.41
in n is 257.19
dp y rfl 4132.1
hs nn rfp 3629.0
th 80
ins 1.000
al ph

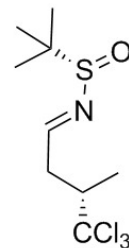
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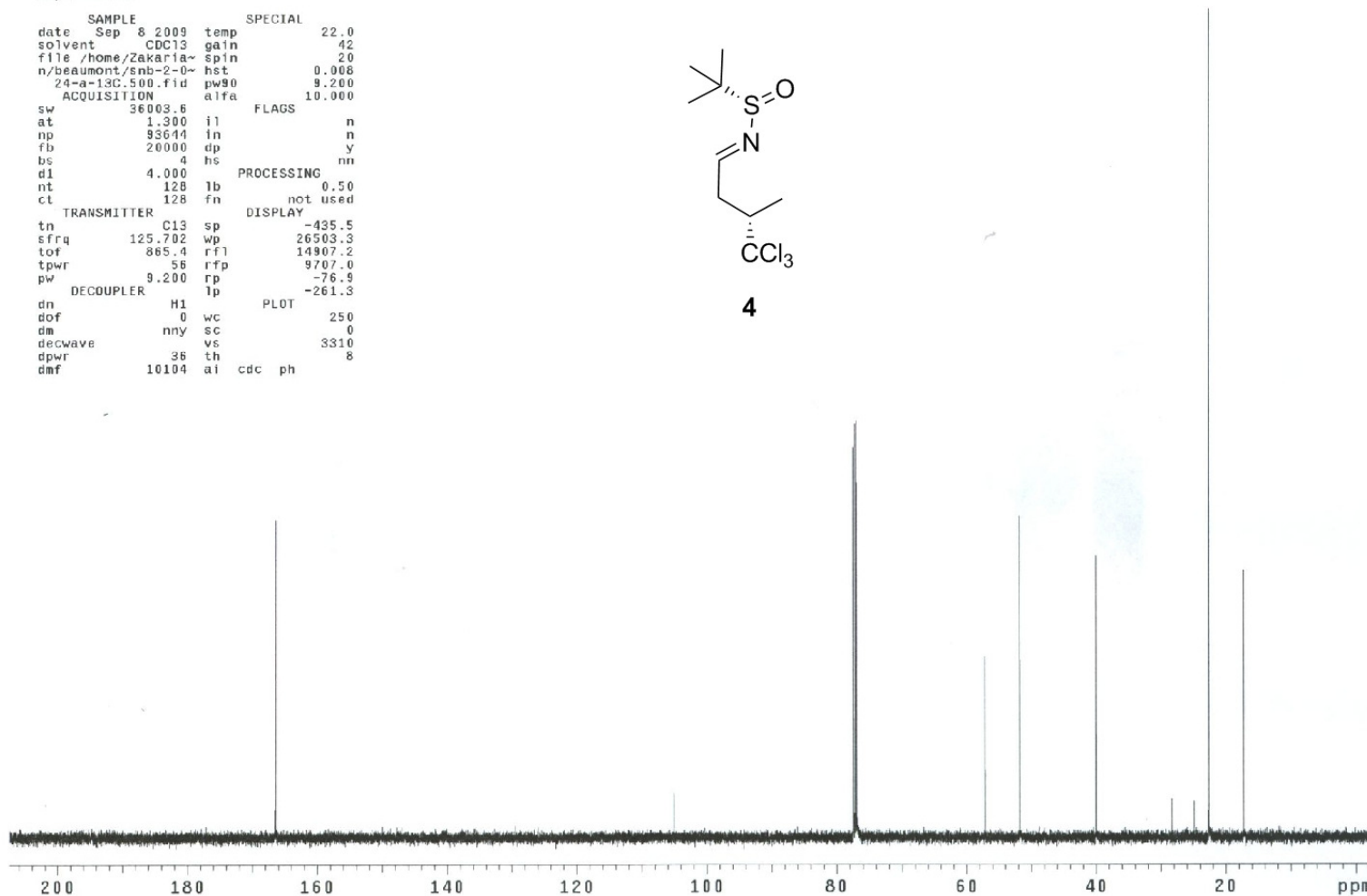
snb-2-024-a-13C

exp1 CARBON

SAMPLE		SPECIAL	
date	Sep 8 2009	temp	22.0
solvent	CDCl3	gain	42
file	/home/Zakaria~	spin	20
n/beaumont/snb-2-0~		hst	0.008
24-a-13C.500.fid		pw90	9.200
ACQUISITION	aifa	aiifa	10.000
sw	36003.6	FLAGS	
at	1.300	il	n
np	93644	in	n
fb	20000	dp	y
bs	4	hs	nn
d1	4.000	PROCESSING	
nt	128	lb	0.50
ct	128	fn	not used
TRANSMITTER	C13	DISPLAY	
tn	C13	sp	-435.5
sfrq	125.702	wp	26503.3
tof	865.4	rfl	14907.2
tpwr	56	rfp	9707.0
pw	9.200	rp	-76.9
DECOUPLER	H1	lp	-261.3
dn	H1	PLOT	
dof	0	wc	250
dm	nn	sc	0
decwave		vs	3310
dpwr	36	th	8
dmf	10104	ai	cdc ph



4

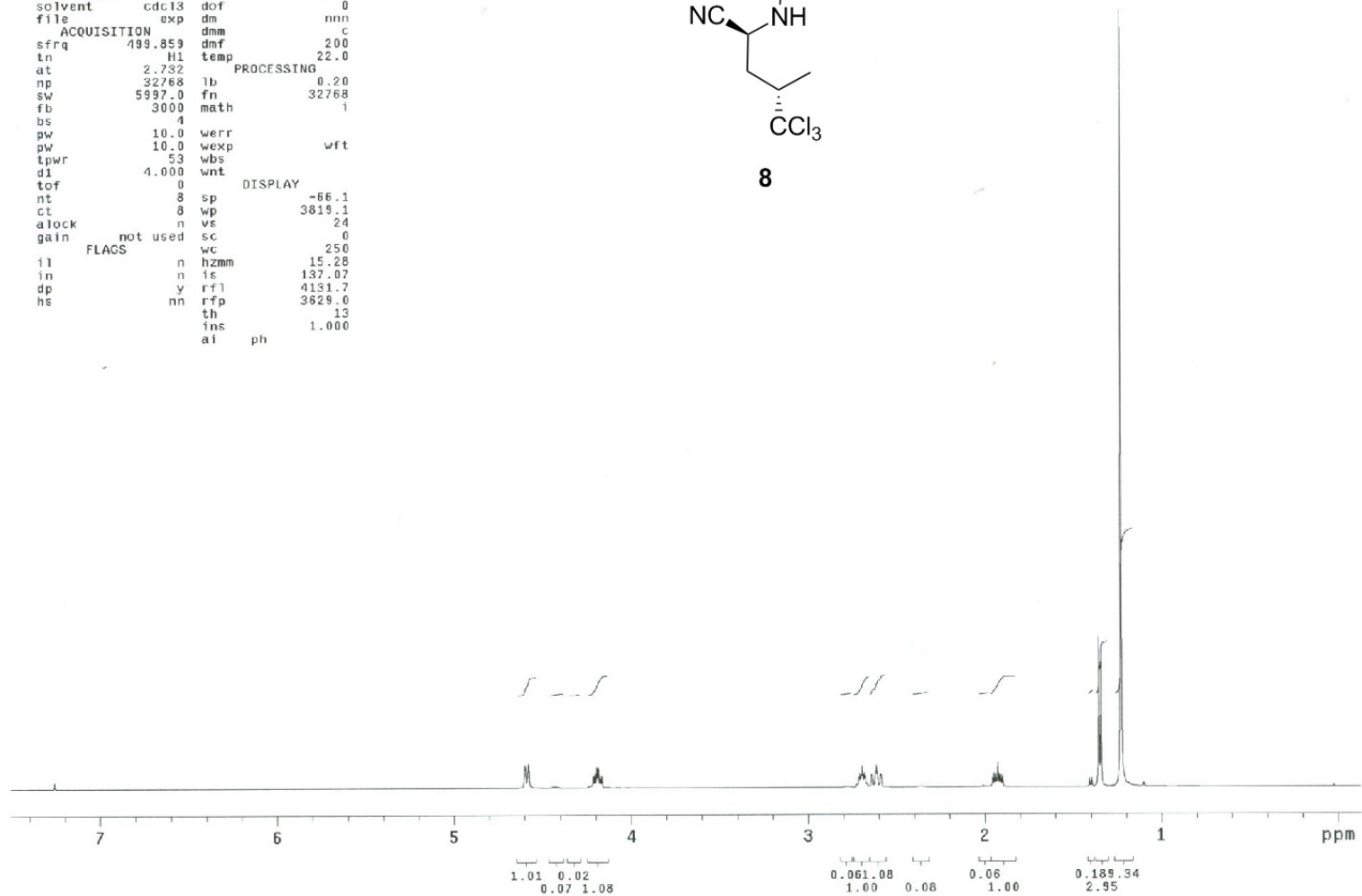
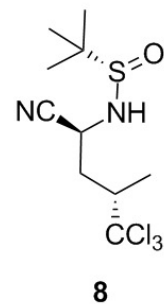




snb-2-054-a

expl s2pu1

SAMPLE		DEC. & VT	
date	Oct 7 2009	dn	F19
solvent	cdcl3	dof	0
file	exp	dm	nmn
ACQUISITION		PROCESSING	
sfrq	499.859	dmm	c
tn	H1	dmf	200
at	2.752	temp	22.0
np	32768	lb	0.20
sw	5997.0	fn	32768
fb	3000	math	i
bs	4		
pw	10.0	werr	
pw	10.0	wexp	wft
tpwr	53	wbs	
d1	4.000	wnt	
tof	0	DISPLAY	
nt	8	sp	-66.1
ct	8	wp	3819.1
alock	n	vs	24
gain	not used	sc	0
FLAGS		wc	250
il	n	hzmm	15.28
in	n	fs	137.07
dp	y	rfl	4131.7
hs	nn	rfp	3629.0
		th	13
		ins	1.000
		al	ph

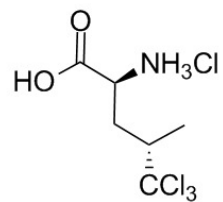




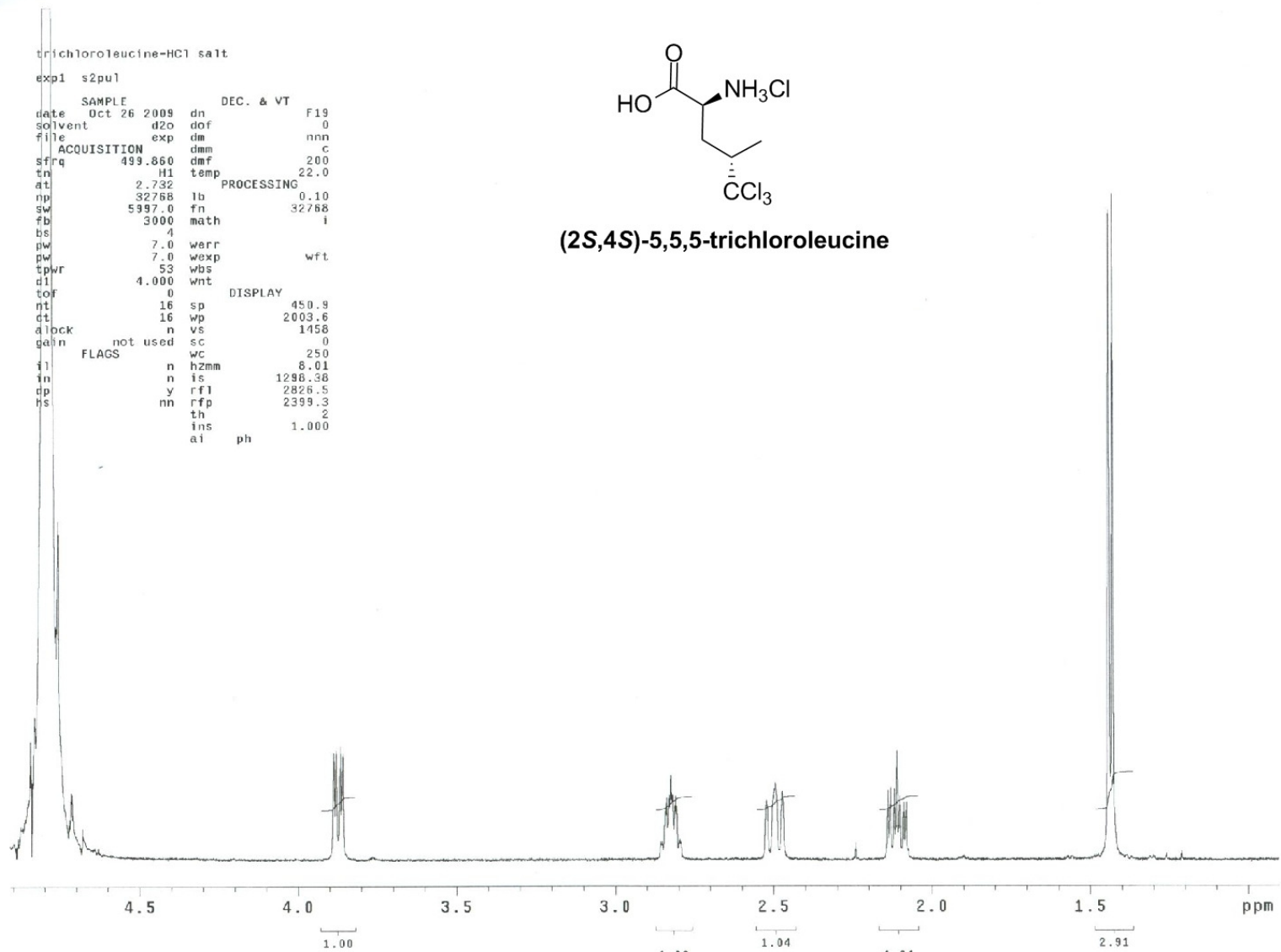
```

trichloroleucine-HCl salt
exp1 s2pu1
SAMPLE          DEC. & VT
date Oct 26 2009 dn          F19
solvent d2o          dof          0
file exp          dm          nnn
ACQUISITION    dmm          c
sfreq 499.860      dmf          200
tn          H1          temp        22.0
at 2.732          PROCESSING
np 32768          lb          0.10
sw 5997.0         fn          32768
fb 3000          math          i
bs 4
pw 7.0          werr
pw 7.0          wexp          wft
tpwr 53         vbs
d1 4.000       wnt
tof 0          DISPLAY
nt 16         sp          450.9
dt 16         vp          2003.6
dlock n        vs          1458
gain not used  sc          0
FLAGS        wc          250
fl n         hzmm        8.01
fn n         is          1298.38
dp y         rfl         2826.5
hs nn        rfp         2399.3
          th          2
          ins         1.000
          ai          ph

```



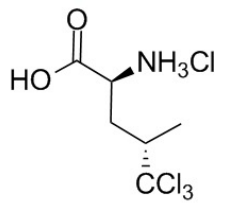
**(2S,4S)-5,5,5-trichloroleucine**



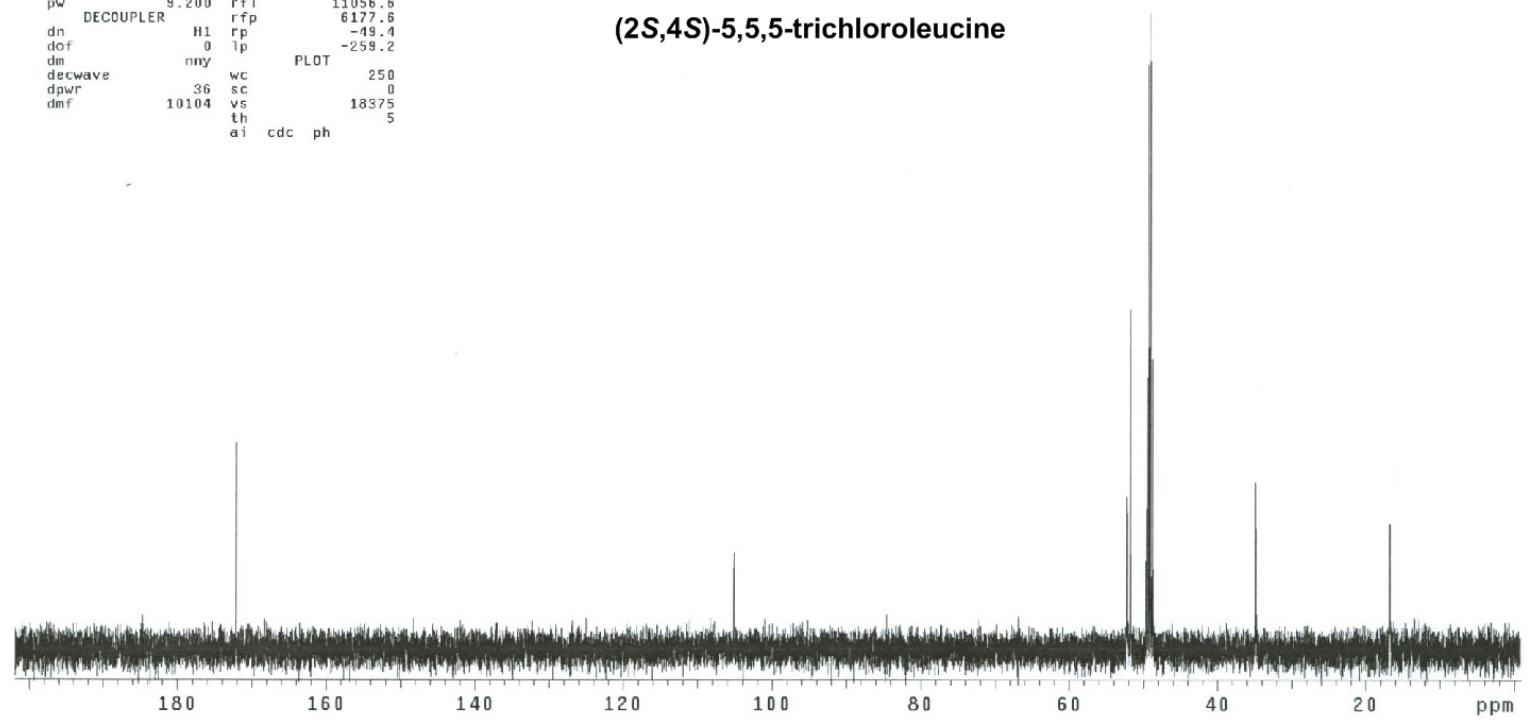
```

snb-trichloroleucine-13C-D2O-MeOD
exp1 CARBON
SAMPLE SPECIAL
date Nov 20 2009 temp 22.0
solvent cd3od gain 42
file exp spin 20
ACQUISITION hst 0.008
sw 36003.6 pw90 9.200
at 1.300 alfa 10.000
np 93644 FLAGS
fb 20000 i1 n
bs 4 in n
d1 1.000 dp y
nt 10000 hs nn
ct 461 PROCESSING
tn C13 fb 0.50
sfrq 125.702 fn not used
tof 865.4 sp DISPLAY
tpwr 56 wp 25480.8
pw 9.200 rfl 11056.6
DECOUPLER rfp 6177.6
dn H1 rp -49.4
dof 0 lp -259.2
dm nny PLOT
decwave wc 250
dpwr 36 sc 0
dmf 10104 vs 18375
th ai cdc ph 5

```



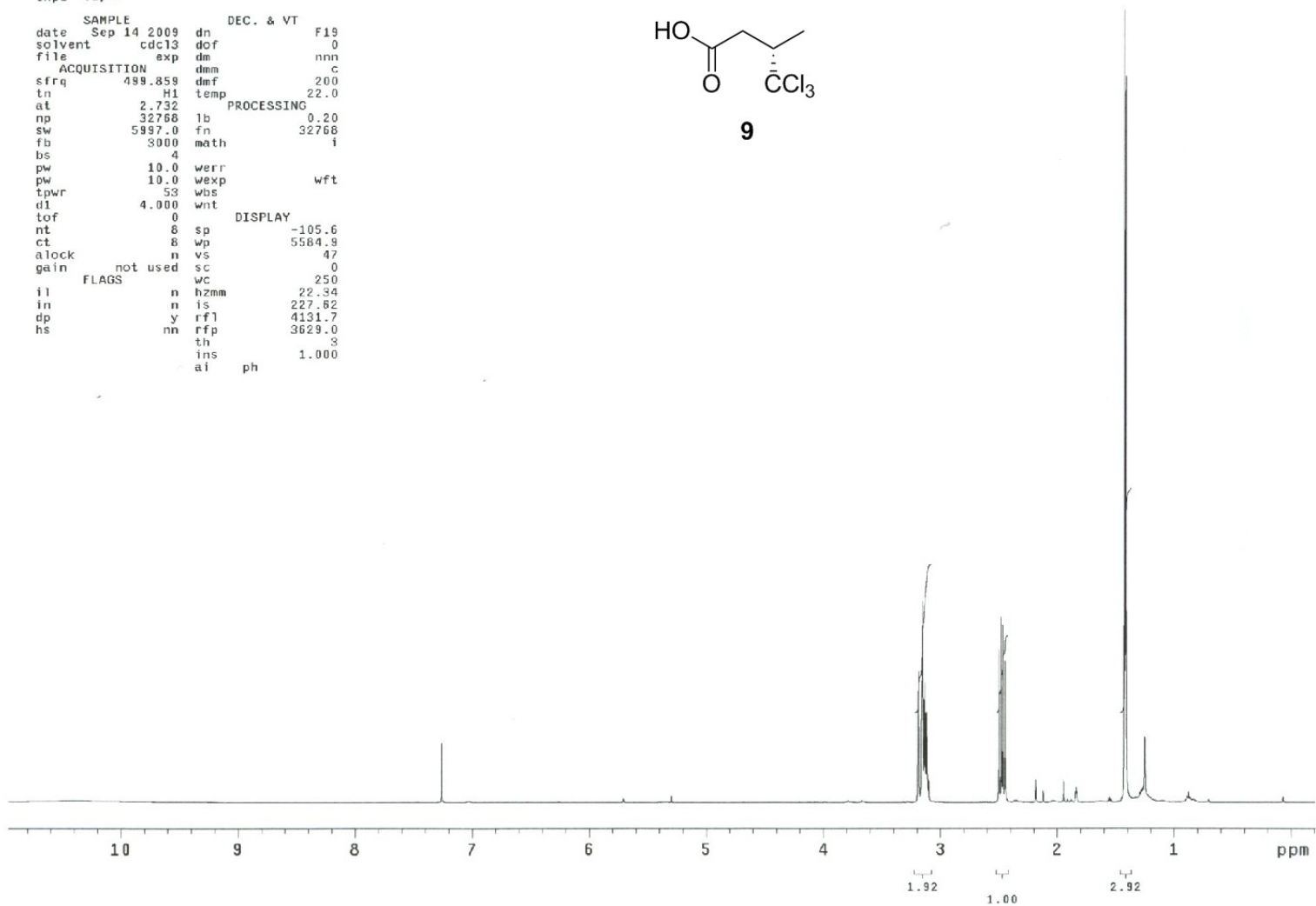
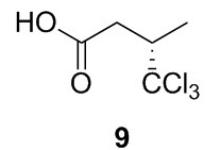
(2S,4S)-5,5,5-trichloroleucine



snb-2-034-crude2

exp1 s2pu1

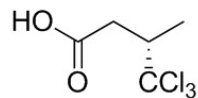
SAMPLE		DEC. & VT	
date	Sep 14 2009	dn	F19
solvent	cdcl3	dof	0
file	exp	dm	nnn
ACQUISITION			
sfrq	499.859	dmm	c
in	H1	dmf	200
at	2.732	temp	22.0
PROCESSING			
np	32768	lb	0.20
sw	5997.0	fn	32768
fb	3000	math	i
bs	4		
pw	10.0	werr	
pw	10.0	wexp	wft
tpwr	53	wbs	
d1	4.000	wnt	
tof	0	DISPLAY	
nt	8	sp	-105.6
ct	8	wp	5584.9
alock		n	vs
gain	not used	sc	47
FLAGS		wc	0
		ns	250
il	n	hzmm	22.34
in	n	is	227.62
dp	y	rfl	4131.7
hs	nn	rfp	3629.0
		th	3
		ins	1.000
		al	ph



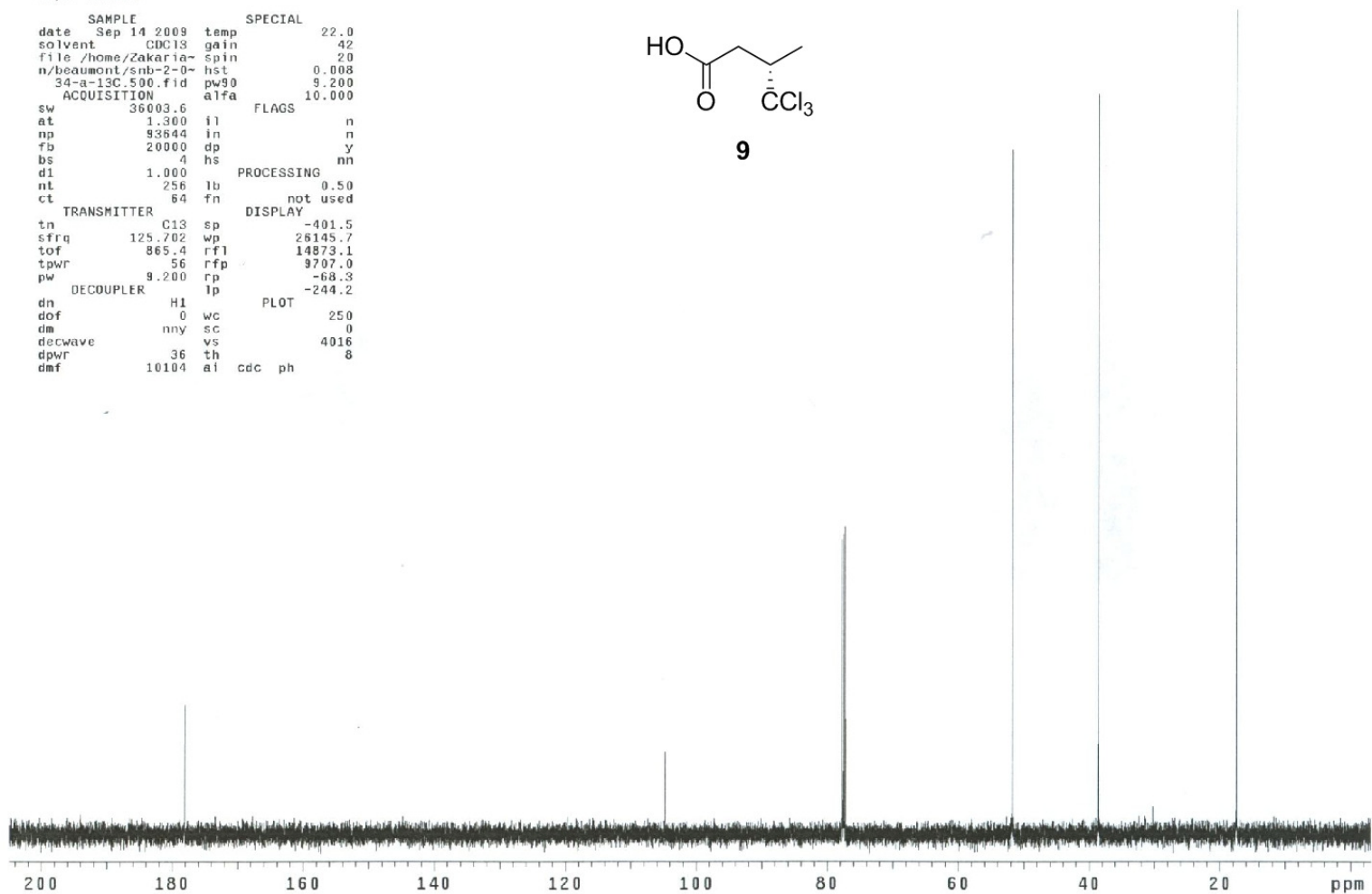
snb-2-034-a-13C

exp1 CARBON

SAMPLE		SPECIAL	
date	Sep 14 2009	temp	22.0
solvent	CDCl3	gain	42
file	/home/Zakaria-	spin	20
n/beaumont/snb-2-0-		hst	0.008
34-a-13C.500.fid		pw90	9.200
ACQUISITION		alfa	10.000
sw	36003.6	FLAGS	
at	1.300	il	n
np	93644	in	n
fb	20000	dp	y
bs	4	hs	nn
d1	1.000	PROCESSING	
nt	256	lb	0.50
ct	64	fn	not used
TRANSMITTER		DISPLAY	
tn	C13	sp	-401.5
sfrq	125.702	wp	26145.7
tof	865.4	rfl	14873.1
tpwr	56	rfp	9707.0
pw	9.200	rp	-68.3
DECOUPLER		lp	-244.2
dn	H1	PLOT	
dof	0	wc	250
dm	nyy	sc	0
decwave		vs	4016
dpwr	36	th	8
dmf	10104	ai	cdc ph



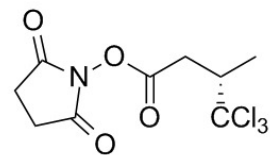
9



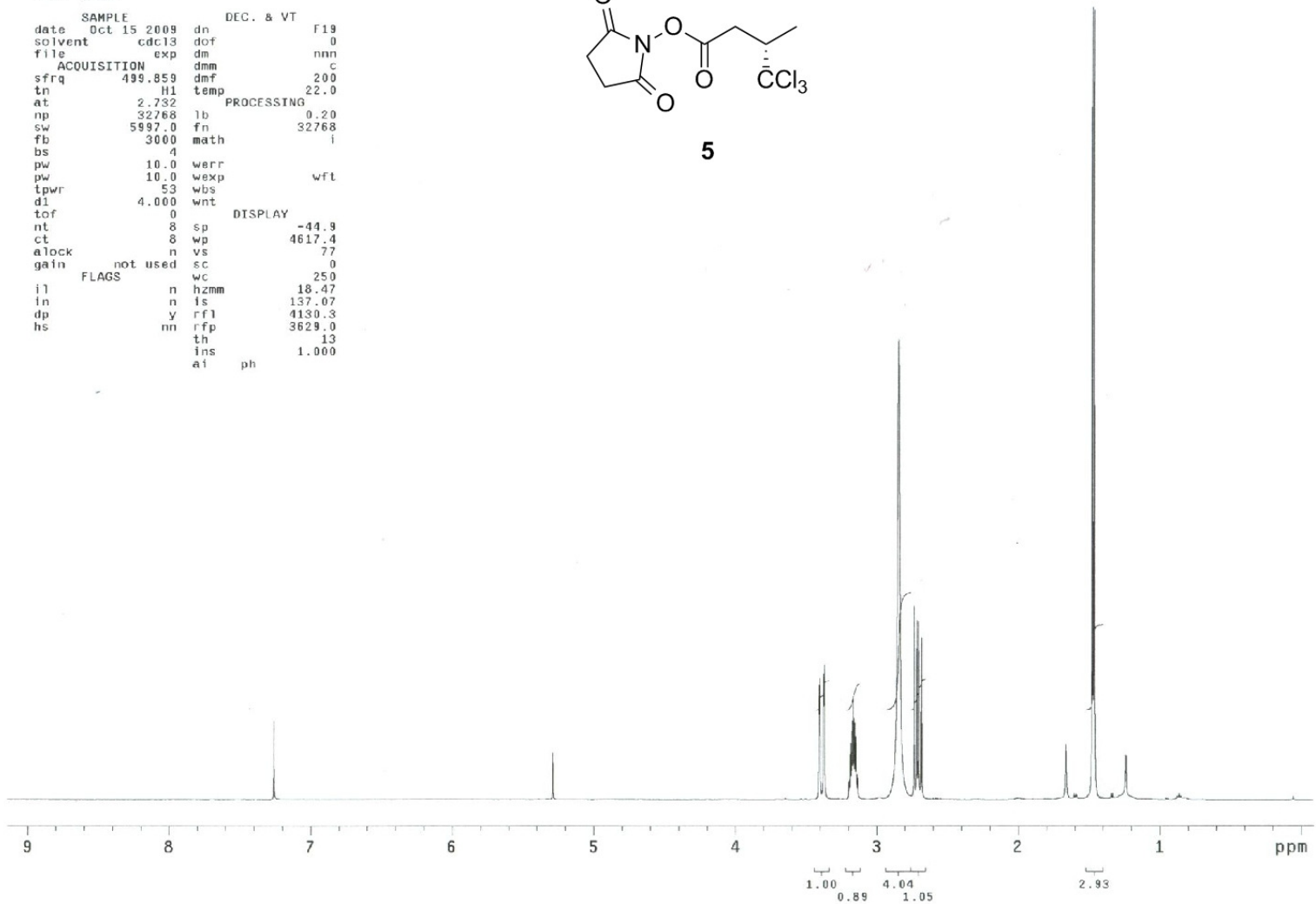
snb-2-078-a

expl s2pul

SAMPLE		DEC. & VT	
date	Oct 15 2009	dn	F19
solvent	cdc13	dof	0
file	exp	dm	nnn
ACQUISITION		dmm	C
sfrq	499.859	dmf	200
tn	H1	temp	22.0
at	2.732	PROCESSING	
np	32768	lb	0.20
sw	5997.0	fn	32768
fb	3000	math	I
bs	4		
pw	10.0	werr	
pw	10.0	wexp	wfl
tpwr	53	wbs	
d1	4.000	wnt	
tof	0	DISPLAY	
nt	8	sp	-44.9
ct	8	wp	4617.4
alock	n	vs	77
gain	not used	sc	0
FLAGS		wc	250
il	n	hzmm	18.47
in	n	is	137.07
dp	y	rfl	4130.3
hs	nn	rfp	3629.0
		th	13
		ins	1.000
		at	ph



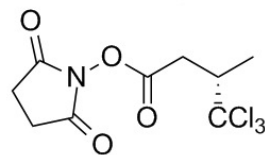
5



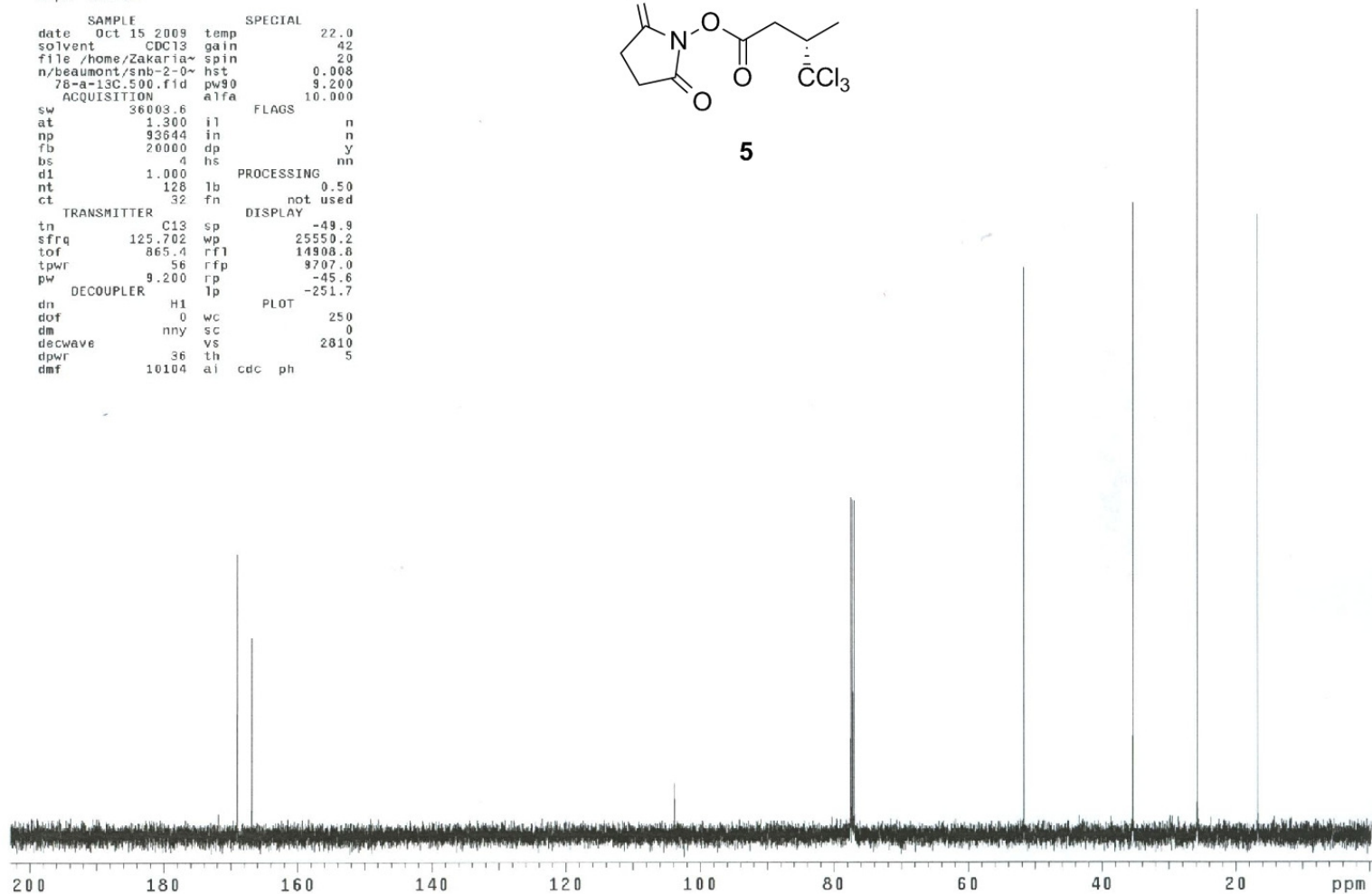
snb-2-078-a-13C

exp1 CARBON

SAMPLE		SPECIAL	
date	Oct 15 2009	temp	22.0
solvent	CDCl3	gain	42
file	/home/Zakaria~	spin	20
n/beamont/snb-2-0~		hst	0.008
78-a-13C.500.fid		pw90	9.200
ACQUISITION	alpha	alpha	10.000
sw	36003.6	FLAGS	
at	1.300	il	n
np	93644	in	n
fb	20000	dp	y
bs	4	hs	nn
d1	1.000	PROCESSING	
nt	128	lb	0.50
ct	32	fn	not used
TRANSMITTER	C13	sp	-49.9
tn		wp	25550.2
sfrq	125.702	rfl	14908.8
tof	865.4	rfl	14908.8
tpwr	56	rfl	9707.0
pw	9.200	rp	-45.6
DECOUPLER	H1	lp	-251.7
dn		PLOT	
dof	0	wc	250
dm	nyy	sc	0
dscwave		vs	2810
dpr	36	th	5
dmf	10104	ai	cdc ph



5

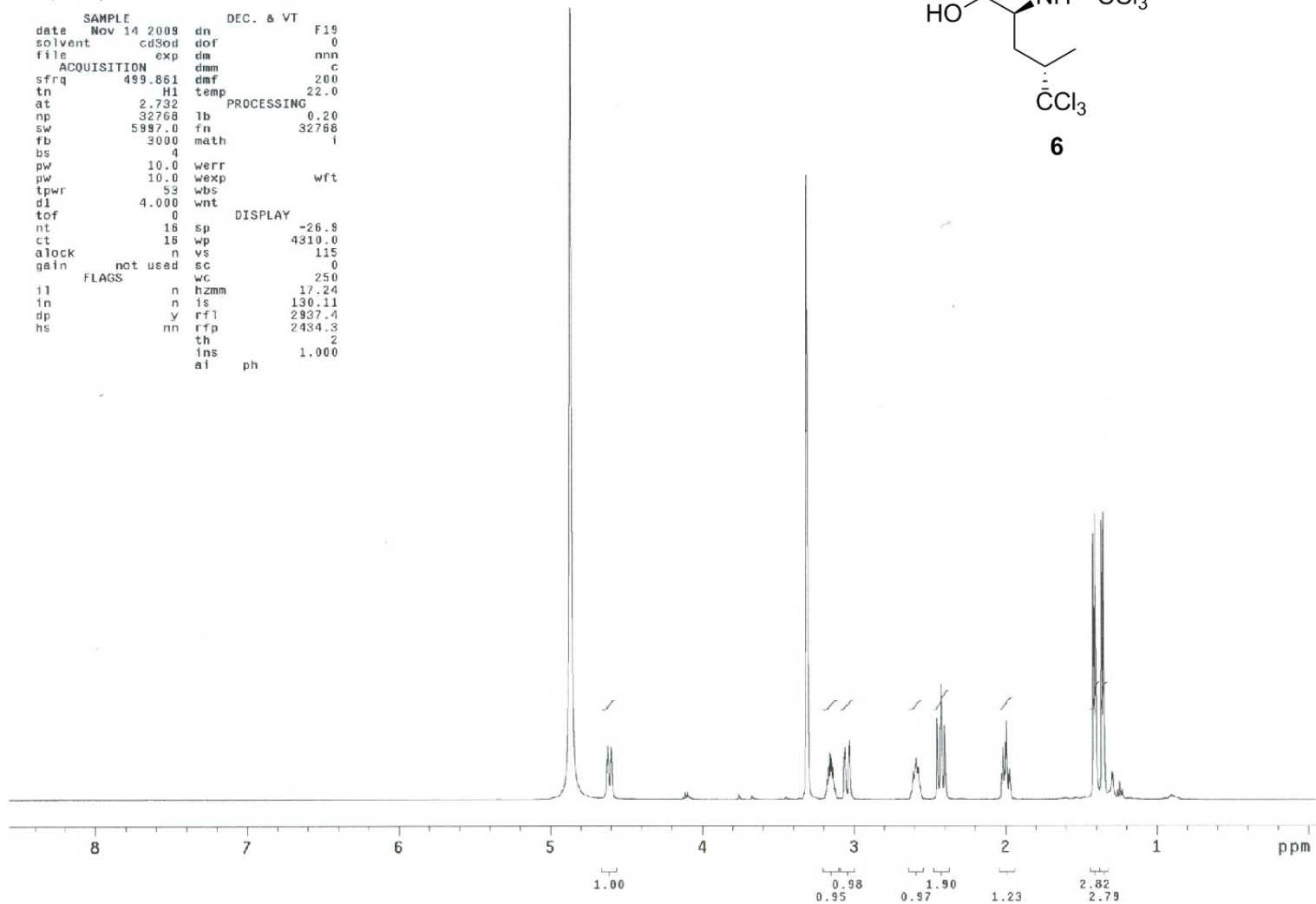
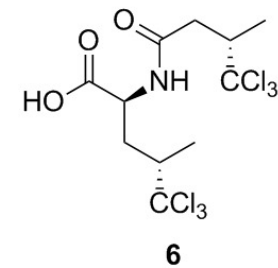




```

snb-2-086-a
exp1 s2pu1
SAMPLE          DEC. & VT
date Nov 14 2009 dn          F19
solvent cd3od  dof          0
file          exp  dm          nnn
ACQUISITION    dmm          c
sfrq 499.861  dmf          200
tn          H1    temp        22.0
at 2.732      PROCESSING
np 32768      lb          0.20
sw 5997.0     fn          32768
fb 3000       math         i
bs 4
pw 10.0       werr
pw 10.0       wexp          wft
tpwr 53
d1 4.000      wbs
tof 0         wnt
nt 16         sp          DISPLAY -26.9
ct 16         wp          4310.0
alock n       vs          115
gain not used sc          0
FLAGS        wc          250
il n         hzmm        17.24
in n         is          130.11
dp y         rfl         2937.4
hs nn        rfp         2434.3
                th          2
                lns         1.000
                ai          ph

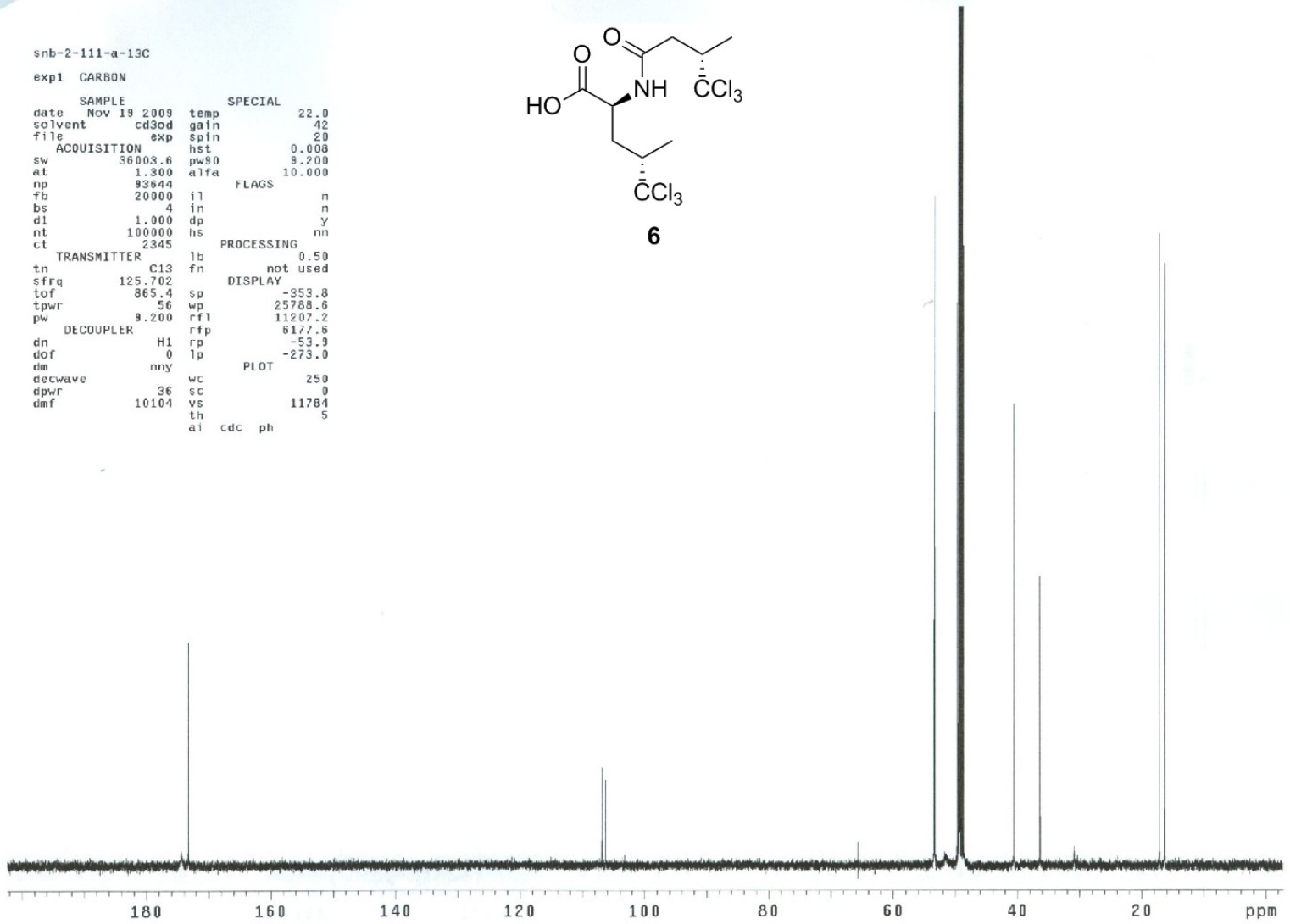
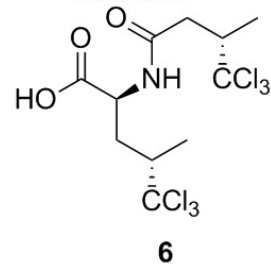
```



```

snb-2-111-a-13C
exp1 CARBON
SAMPLE
date Nov 19 2009 temp SPECIAL 22.0
solvent cd3od gain 42
file exp spin 20
ACQUISITION hst 0.008
sw 36003.6 pws0 9.200
at 1.300 alfa 10.000
np 93644 FLAGS
fb 20000 i1 n
bs 4 in n
dl 1.000 dp y
nt 100000 hs nn
ct 2345 PROCESSING
tn C13 lb 0.50
sfrq 125.702 fn not used
tof 865.4 sp DISPLAY -953.8
tpwr 56 wp 25788.6
pw 9.200 rfl 11207.2
DECOUPLER rfp 6177.6
dn H1 rp -53.9
dof 0 lp -273.0
dm nny PLOT
decwave wc 250
dpwr 36 sc 0
dmf 10104 vs 11784
th 5
ai cdc ph

```

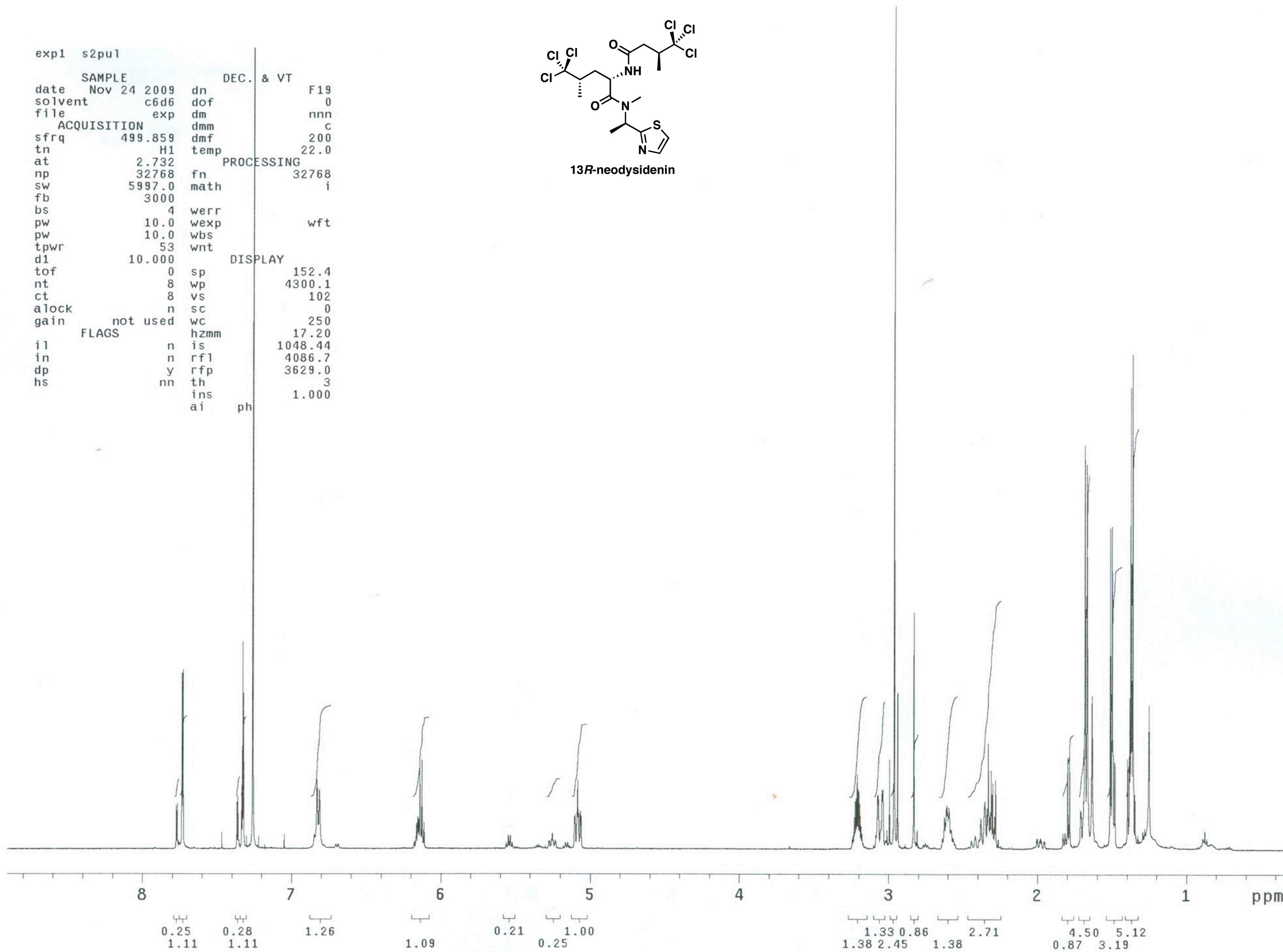
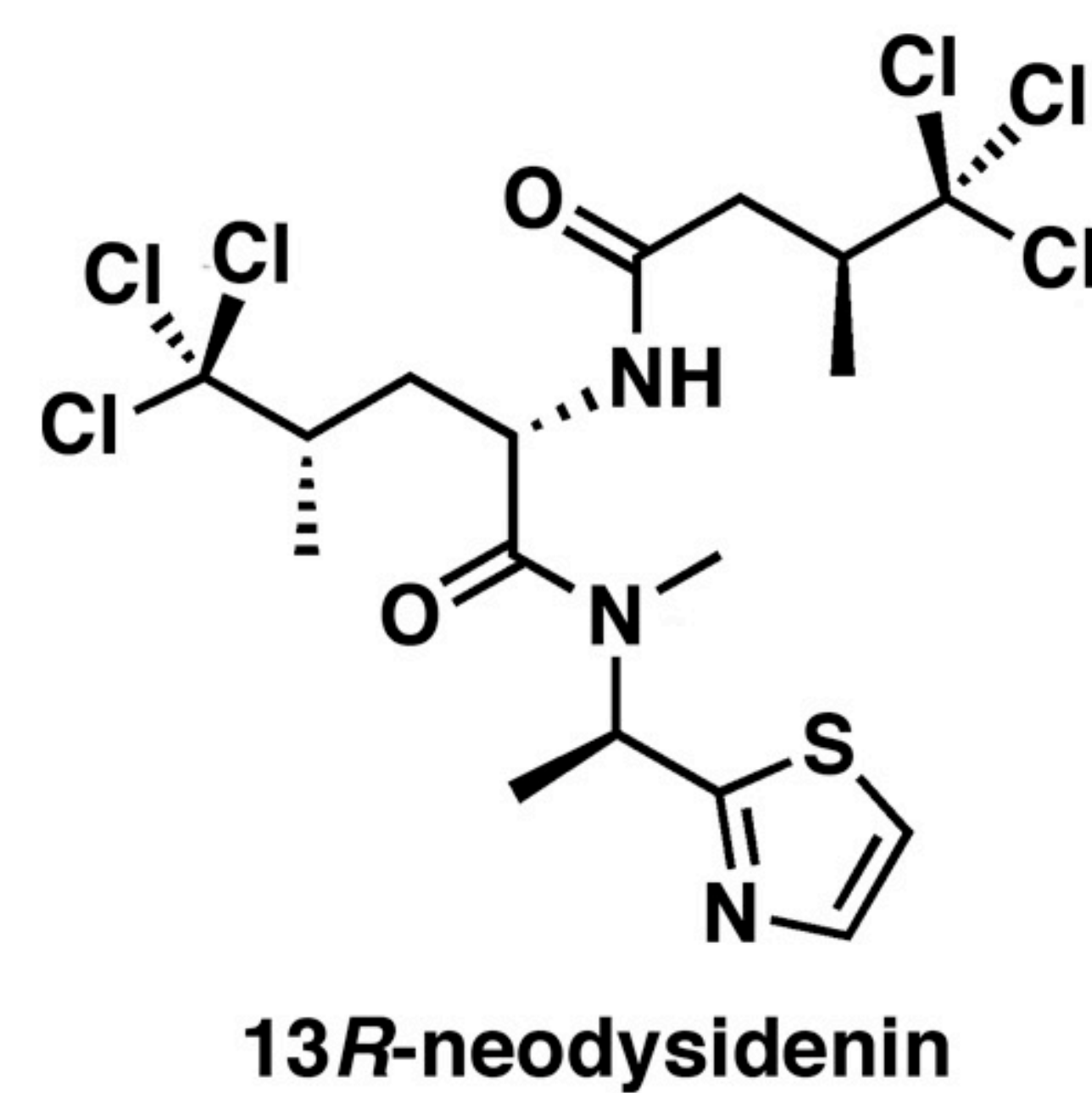




```

exp1 s2pu1
SAMPLE
date Nov 24 2009 dn F19
solvent c6d6 dof 0
file exp dm nnn
ACQUISITION dmm c
sfrq 499.859 dmf 200
tn H1 temp 22.0
at 2.732 PROCESSING
np 32768 fn 32768
sw 5997.0 math i
fb 3000
bs 4 werr
pw 10.0 wexp wft
pw 10.0 wbs
tpwr 53 wnt
d1 10.000 DISPLAY
tof 0 sp 152.4
nt 8 wp 4300.1
ct 8 vs 102
alock n sc 0
gain not used wc 250
FLAGS n hzmm 17.20
il n is 1048.44
in n rfl 4086.7
dp y rfp 3629.0
hs nn th 3
ins 1.000
ai ph

```

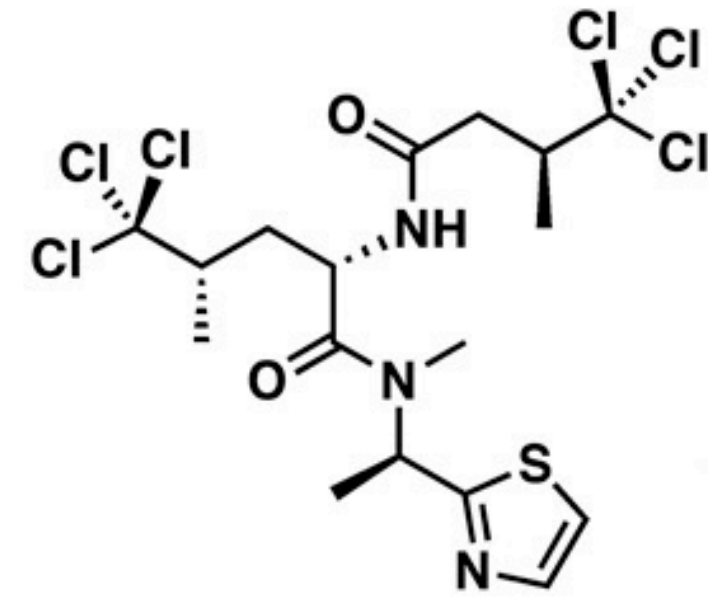




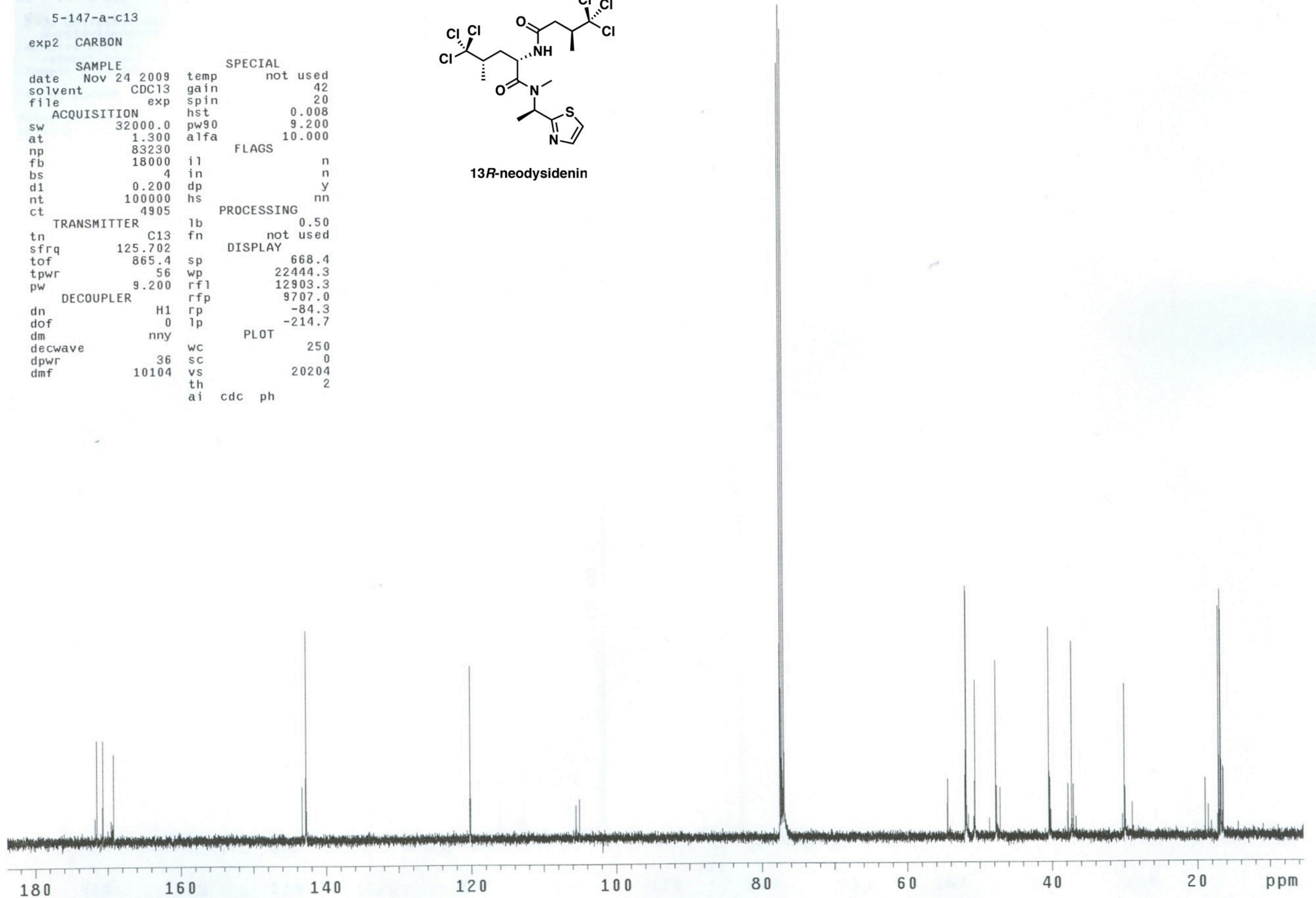
5-147-a-c13

exp2 CARBON

SAMPLE		SPECIAL	
date	Nov 24 2009	temp	not used
solvent	CDC13	gain	42
file	exp	spin	20
ACQUISITION		SPECIAL	
sw	32000.0	hst	0.008
at	1.300	pw90	9.200
np	83230	alfa	10.000
fb	18000	FLAGS	
bs	4	il	n
d1	0.200	in	n
nt	100000	dp	y
ct	4905	hs	nn
TRANSMITTER		PROCESSING	
tn	C13	lb	0.50
sfrq	125.702	fn	not used
tof	865.4	DISPLAY	
tpwr	56	sp	668.4
pw	9.200	wp	22444.3
DECOUPLER		rfl	12903.3
dn	H1	rfp	9707.0
dof	0	rp	-84.3
dm	nny	lp	-214.7
decwave		PLOT	
dpwr	36	wc	250
dmf	10104	sc	0
		vs	20204
		th	
		ai	2
		cdc	ph



13R-neodysidenin

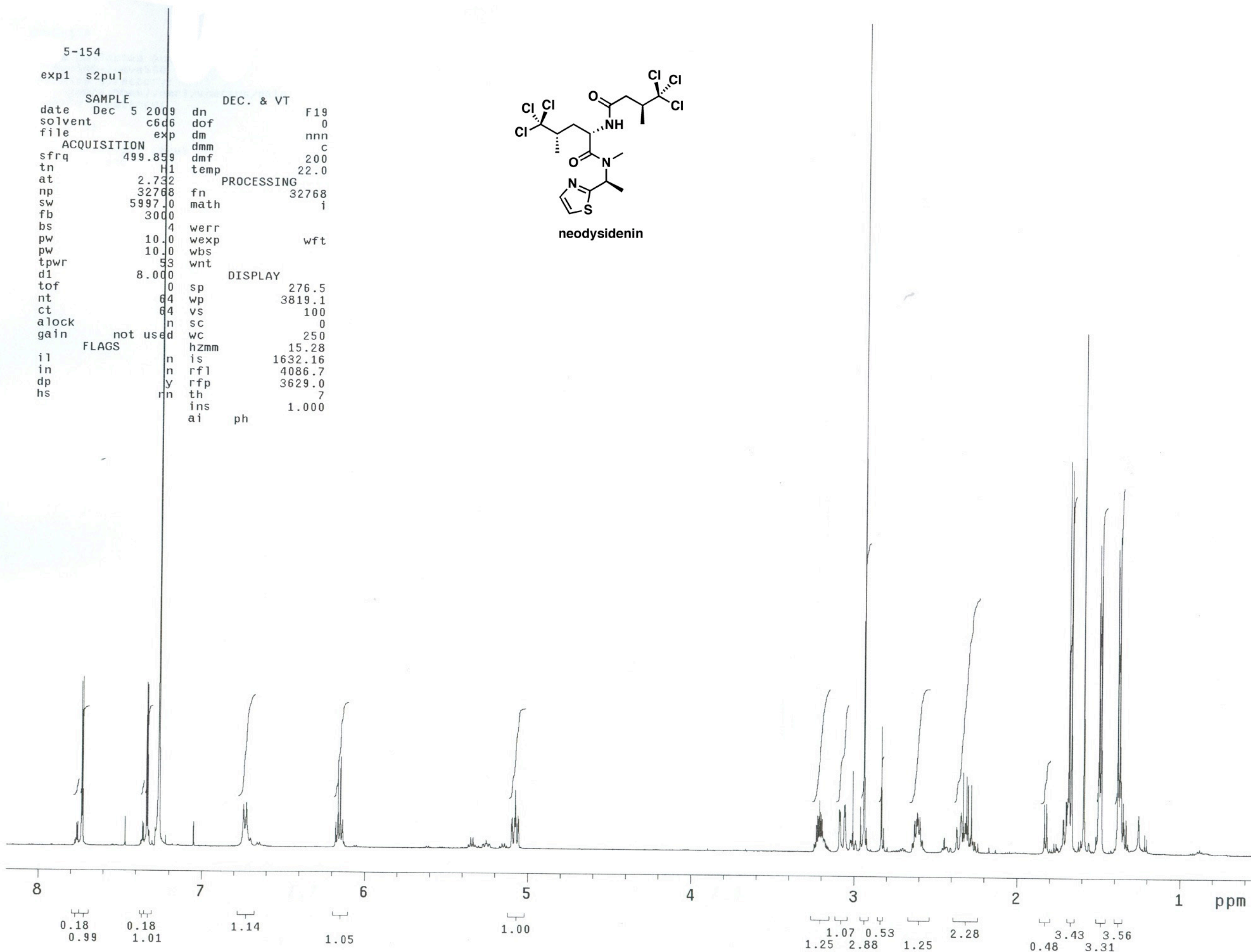
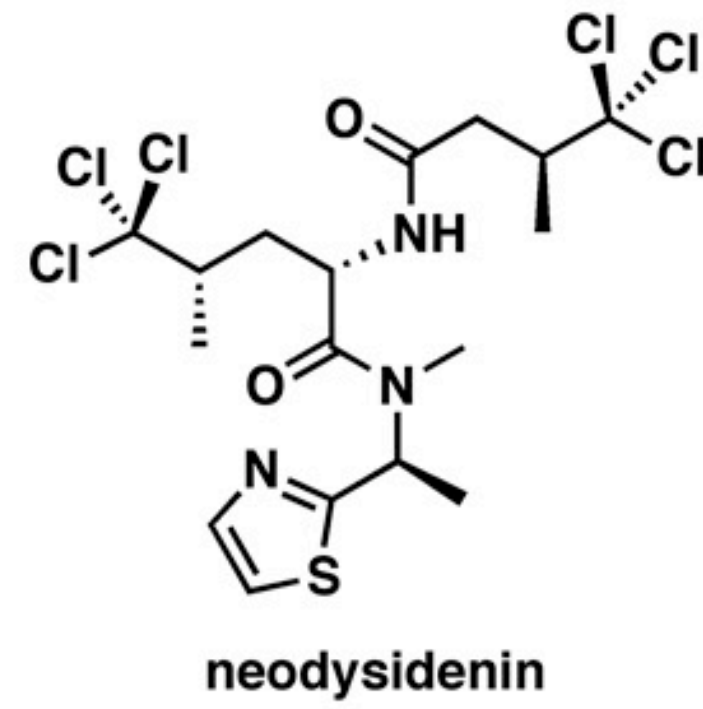




5-154

exp1 s2pu1

SAMPLE		DEC. & VT	
date	Dec 5 2009	dn	F19
solvent	c6d6	dof	0
file	exp	dm	nnn
ACQUISITION		dmm	c
sfrq	499.859	dmf	200
tn	H1	temp	22.0
at	2.732	PROCESSING	
np	32768	fn	32768
sw	5997.0	math	i
fb	3000		
bs	4	werr	
pw	10.0	wexp	wft
pw	10.0	wbs	
tpwr	53	wnt	
d1	8.000	DISPLAY	
tof	0	sp	276.5
nt	64	wp	3819.1
ct	64	vs	100
alock	n	sc	0
gain	not used	wc	250
FLAGS		hzmm	15.28
il	n	is	1632.16
in	n	rfl	4086.7
dp	y	rfp	3629.0
hs	rn	th	7
		ins	1.000
		ai	ph

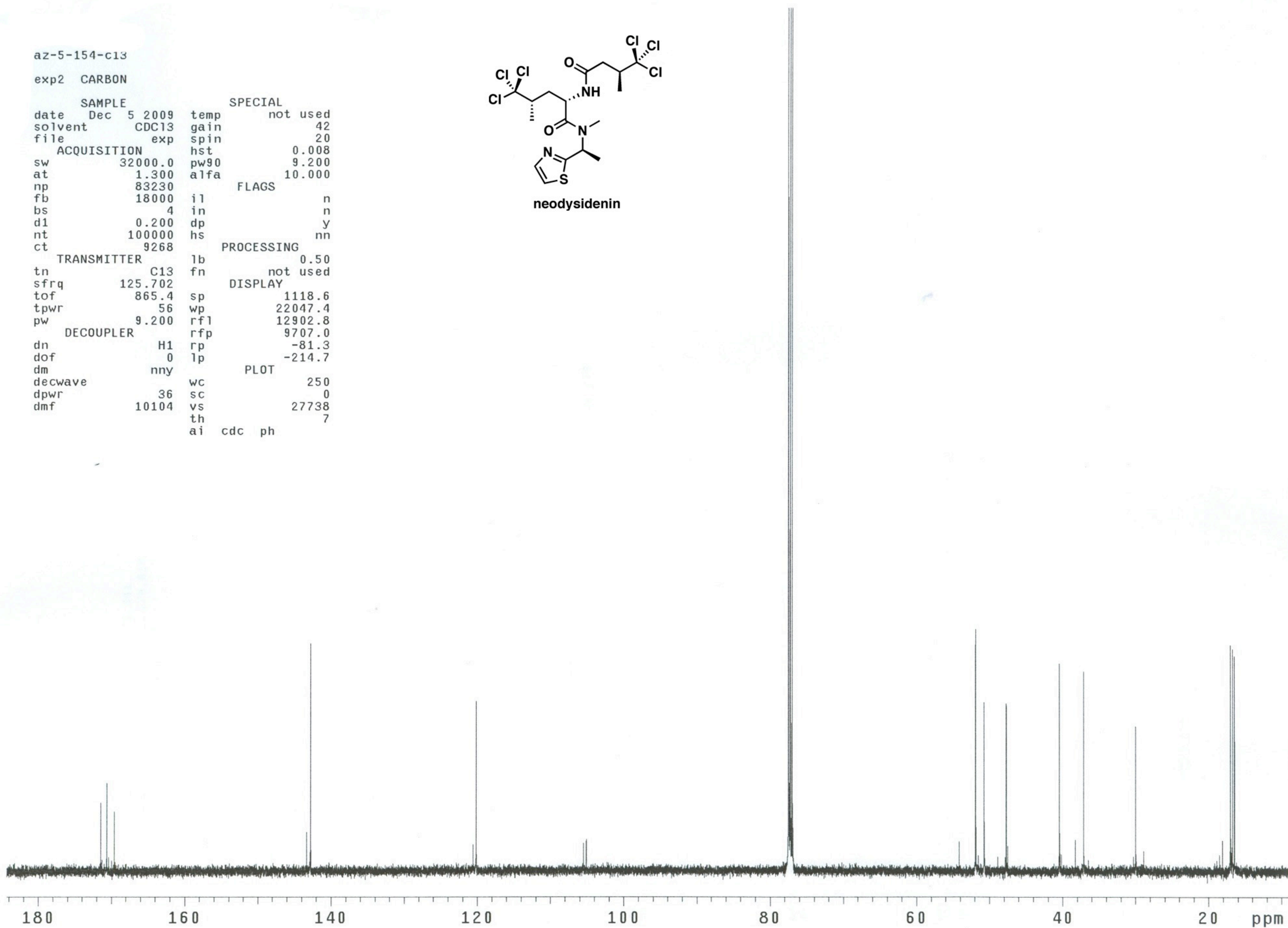
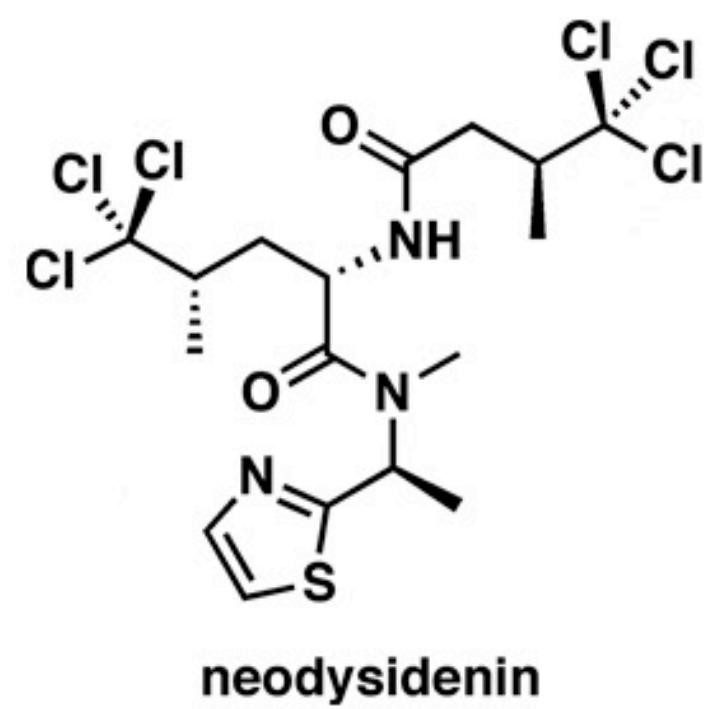




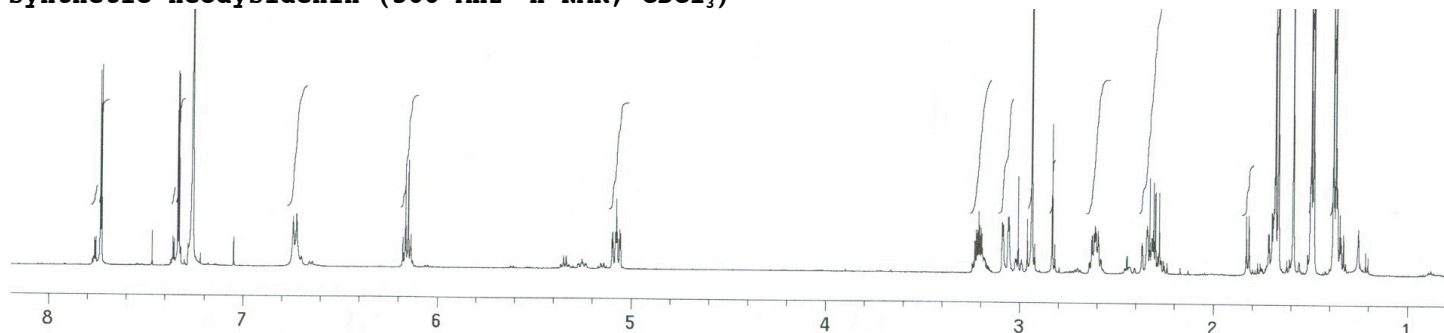
az-5-154-c13

exp2 CARBON

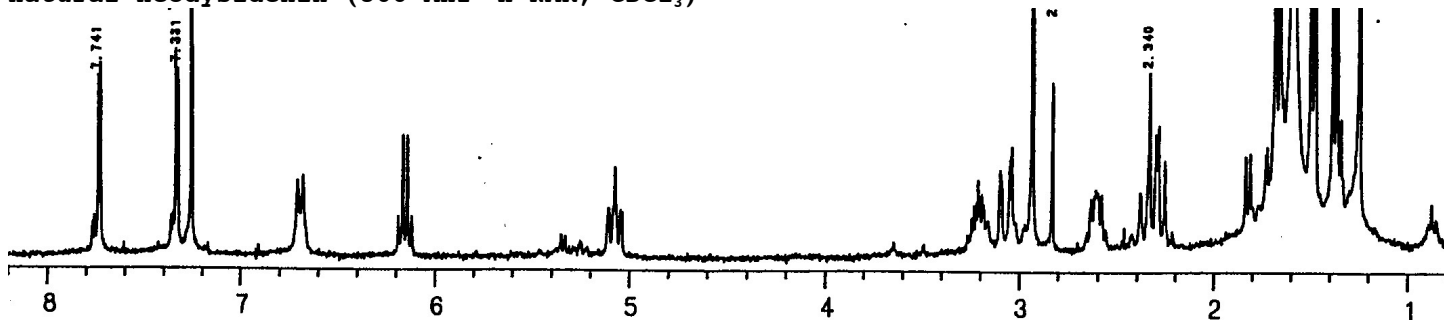
SAMPLE		SPECIAL	
date	Dec 5 2009	temp	not used
solvent	CDC13	gain	42
file	exp	spin	20
ACQUISITION		SPECIAL	
sw	32000.0	hst	0.008
at	1.300	pw90	9.200
np	83230	alfa	10.000
fb	18000	FLAGS	
bs	4	il	n
d1	0.200	in	n
nt	100000	dp	y
ct	9268	hs	nn
TRANSMITTER		PROCESSING	
tn	C13	lb	0.50
sfrq	125.702	fn	not used
tof	865.4	DISPLAY	
tpwr	56	sp	1118.6
pw	9.200	wp	22047.4
DECOUPLER		rfl	12902.8
dn	H1	rfp	9707.0
dof	0	rp	-81.3
dm	nny	lp	-214.7
decwave		PLOT	
dpwr	36	wc	250
dmf	10104	sc	0
		vs	27738
		th	7
		ai	cdc ph



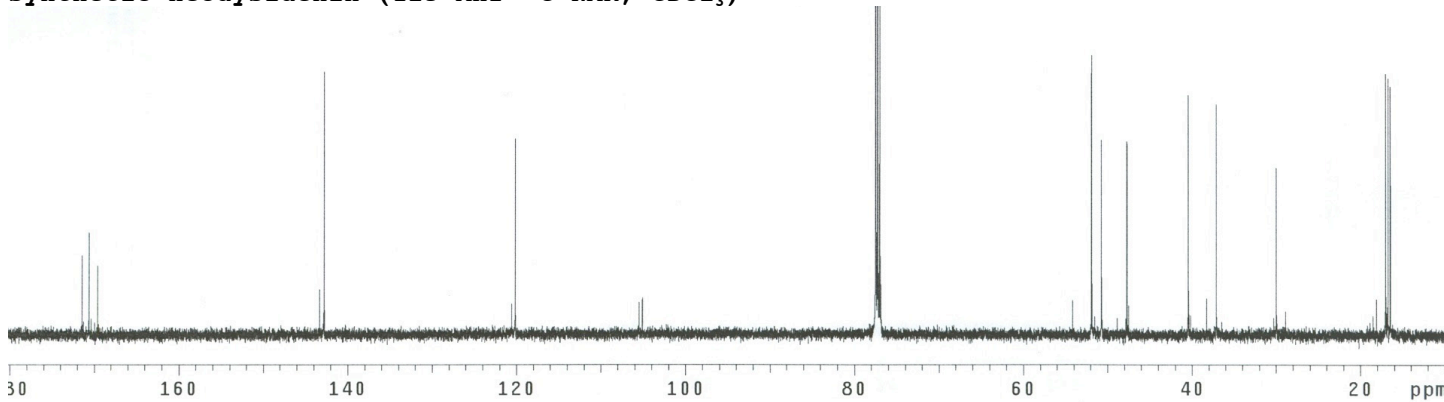
synthetic neodysidenin (500 MHz  $^1\text{H}$  NMR,  $\text{CDCl}_3$ )



natural neodysidenin (300 MHz  $^1\text{H}$  NMR,  $\text{CDCl}_3$ )



synthetic neodysidenin (125 MHz  $^{13}\text{C}$  NMR,  $\text{CDCl}_3$ )



natural neodysidenin (125 MHz  $^{13}\text{C}$  NMR,  $\text{CDCl}_3$ )

