

Supporting Information

for

Regio- and stereoselective synthesis of new diaminocyclopentanols

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Email: Evgeni Anatolyevich Larin* – elarin@asinex.com

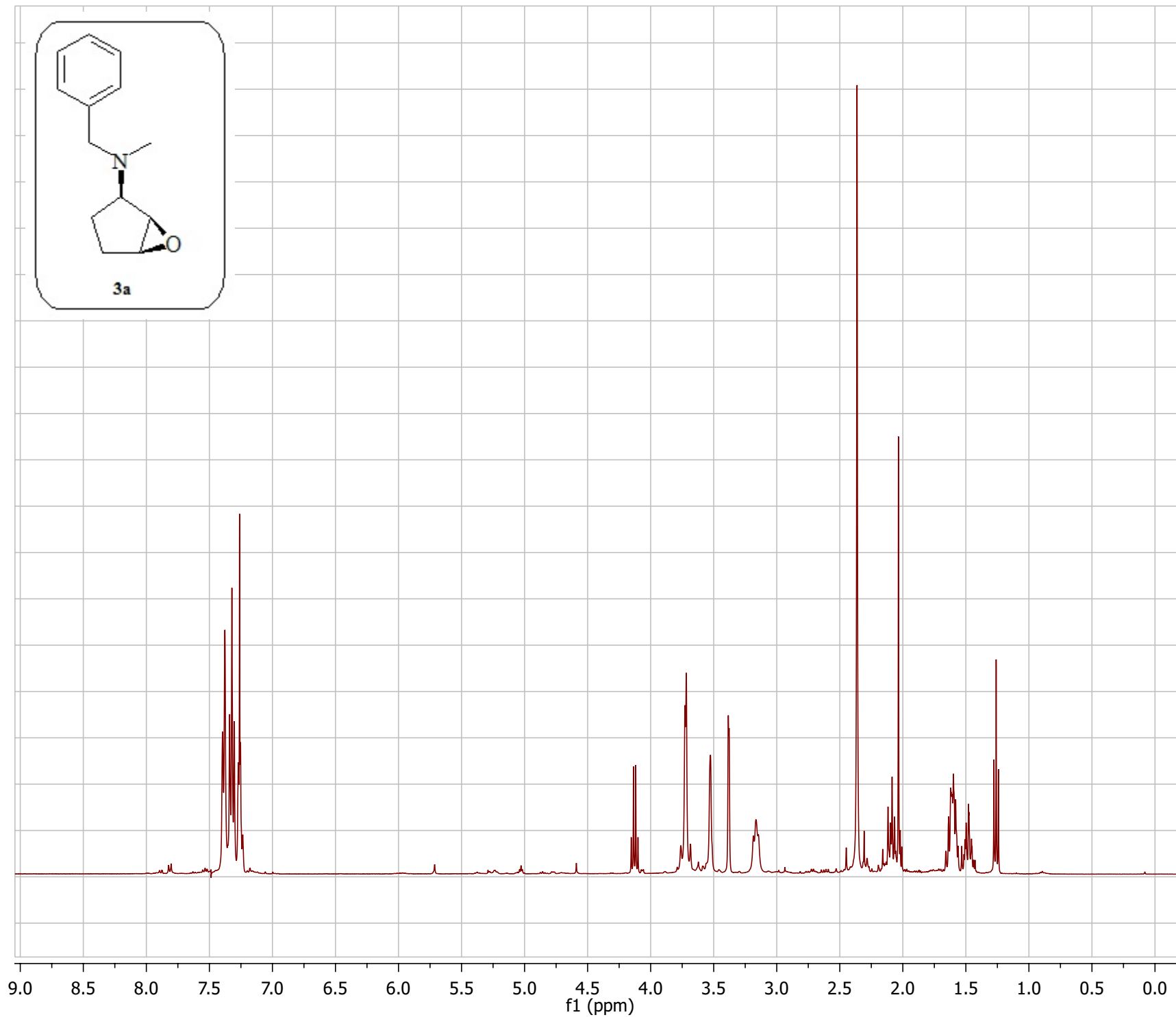
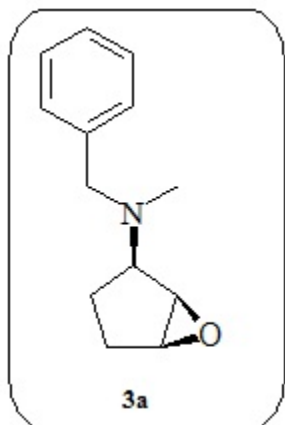
* Corresponding author

Copies of ¹H and ¹³C NMR spectra

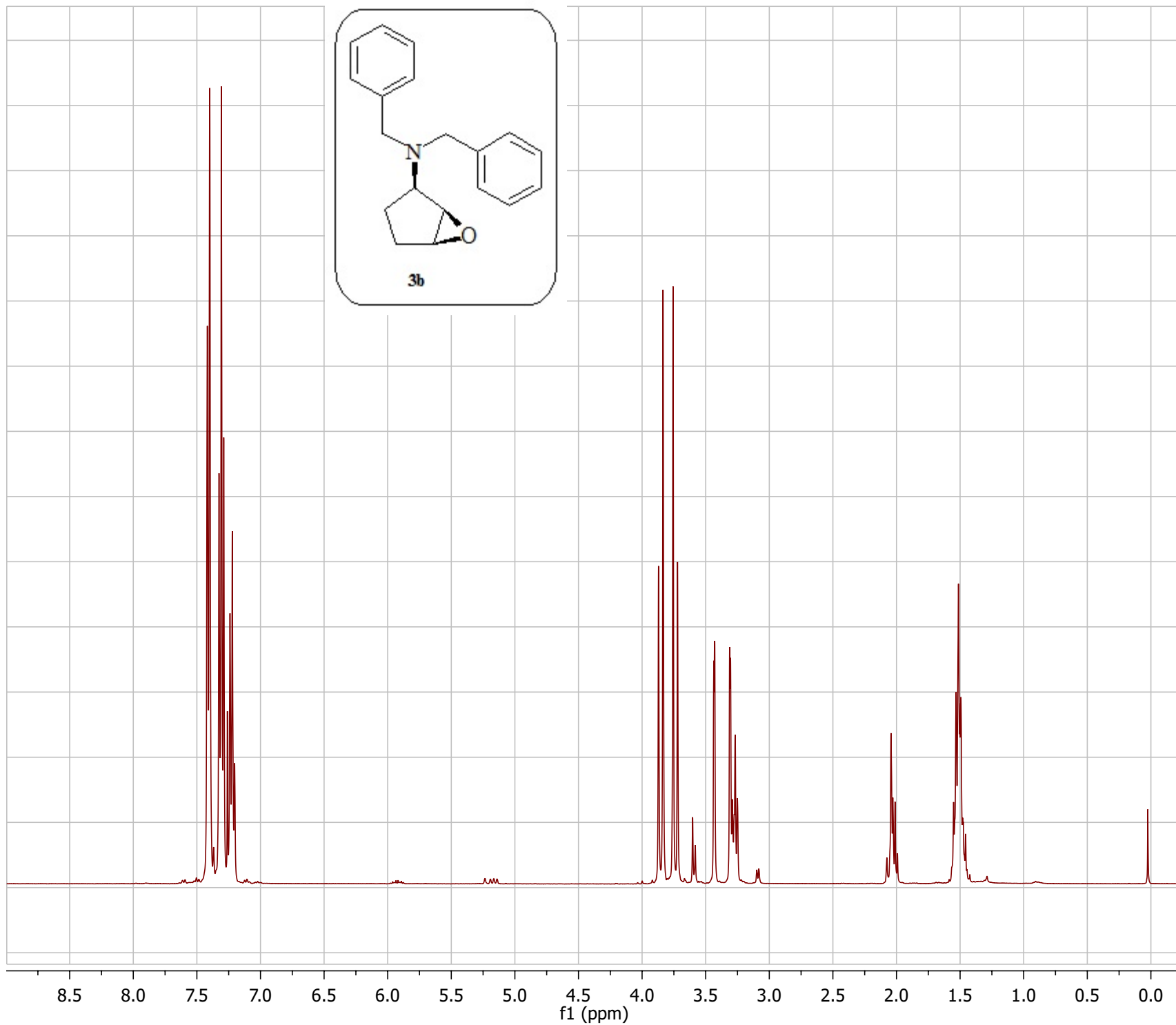
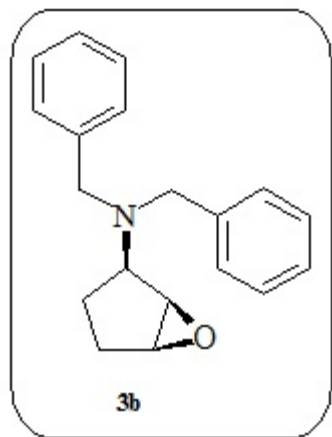
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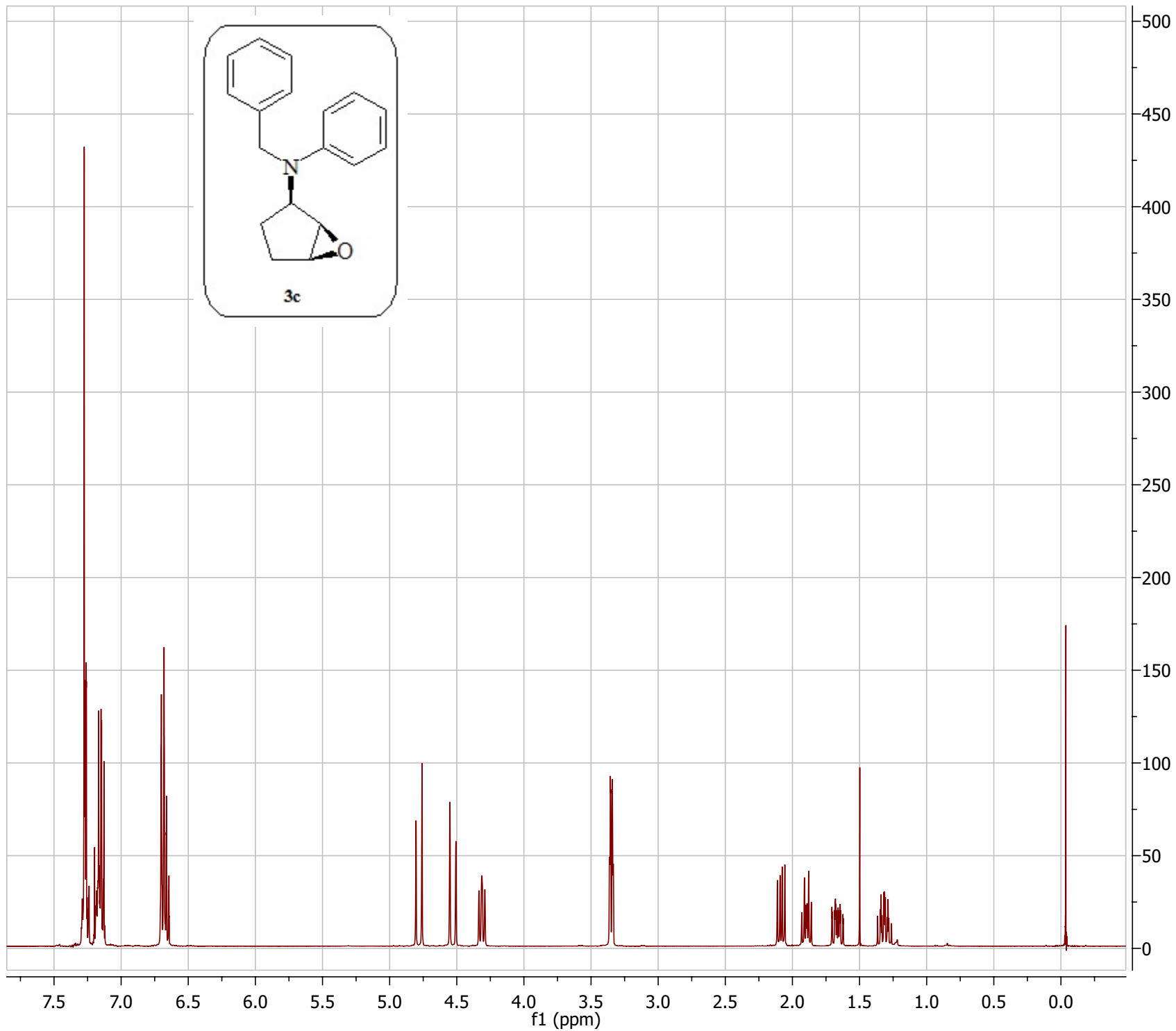
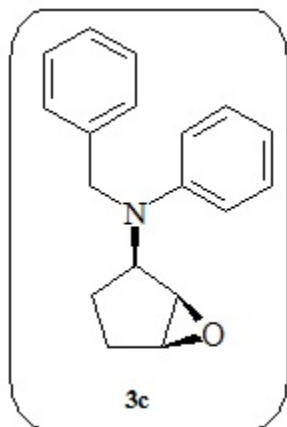
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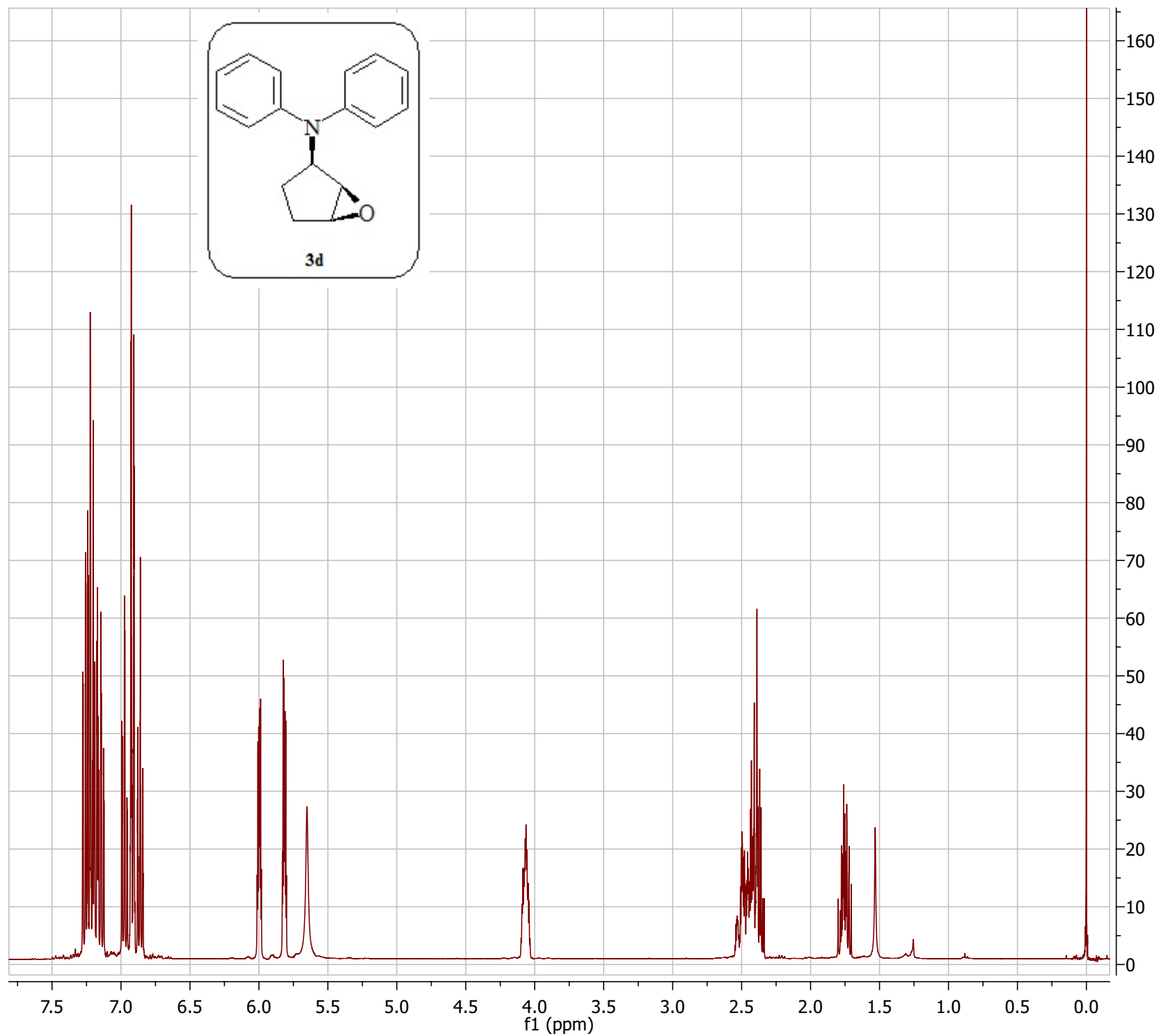
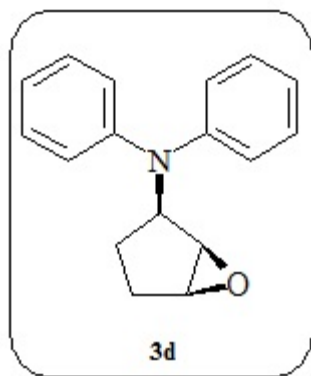
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2 Spectrometer	mercury
3 Author	vnmr1
4 Solvent	CDCl3
5 Temperature	50.0
6 Pulse Sequence	s222
7 Number of Scans	10
8 Receiver Gain	16
9 Relaxation Delay	3.0000
10 Pulse Width	0.0000
11 Acquisition Time	1.4000
12 Gradient Duration	0.0020
13 Spectrometer Frequency	400.45
14 Spectral Width	6802.7
15 Lowest Frequency	-403.2
16 Nucleus	1H
17 Acquired Size	9524
18 Spectral Size	32768



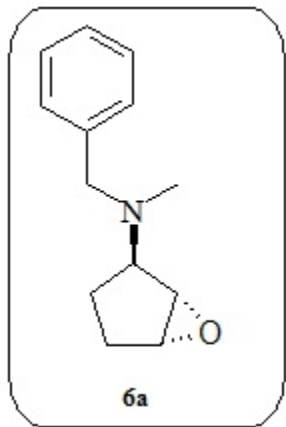
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2 Spectrometer	mercury
3 Author	vnmr1
4 Solvent	CDCl3
5 Temperature	50.0
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7 Number of Scans	4
8 Receiver Gain	16
9 Relaxation Delay	3.0000
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11 Acquisition Time	1.4000
12 Gradient Duration	0.0020
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14 Spectral Width	6802.7
15 Lowest Frequency	-403.2
16 Nucleus	1H
17 Acquired Size	9524
18 Spectral Size	32768



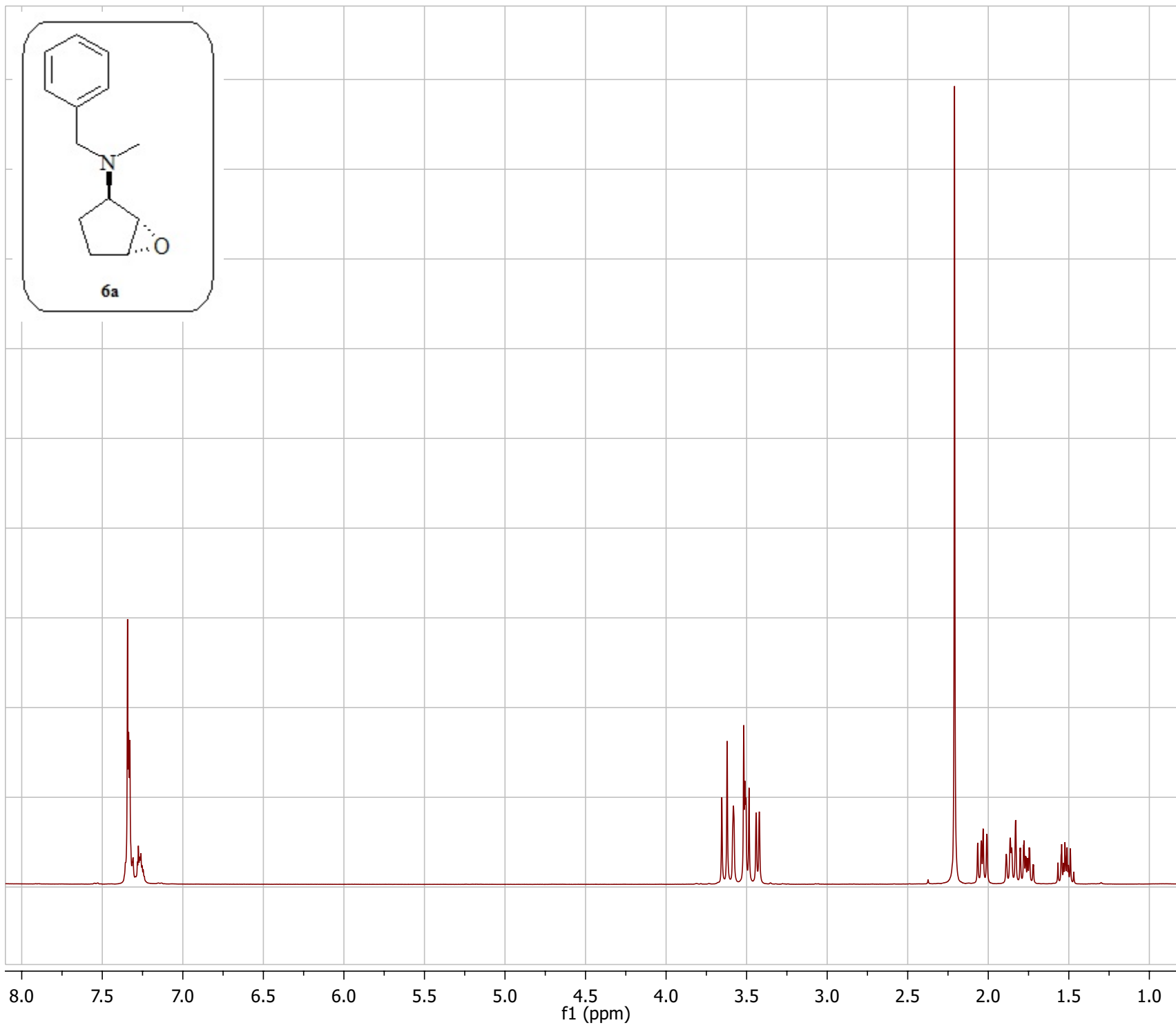
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2 Spectrometer	vnmrs
3 Author	chemp
4 Solvent	cdcl3
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7 Number of Scans	16
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14 Spectral Width	6410.3
15 Lowest Frequency	-825.5
16 Nucleus	1H
17 Acquired Size	16384
18 Spectral Size	32768

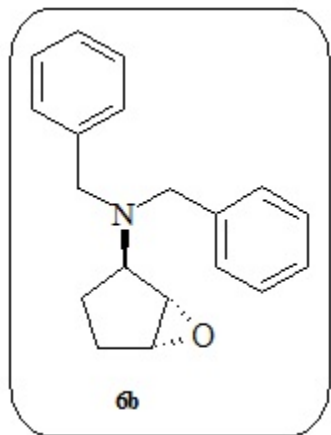


Параметр	Значение
1 Origin	Varian
2 Spectrometer	vnmrs
3 Author	chemp
4 Solvent	cdcl3
5 Temperature	34.0
6 Pulse Sequence	s2pul
7 Number of Scans	16
8 Receiver Gain	30
9 Relaxation Delay	1.0000
10 Pulse Width	0.0000
11 Acquisition Time	2.5559
12 Gradient Duration	0.0010
13 Spectrometer Frequency	399.70
14 Spectral Width	6410.3
15 Lowest Frequency	-808.3
16 Nucleus	¹ H
17 Acquired Size	16384
18 Spectral Size	32768

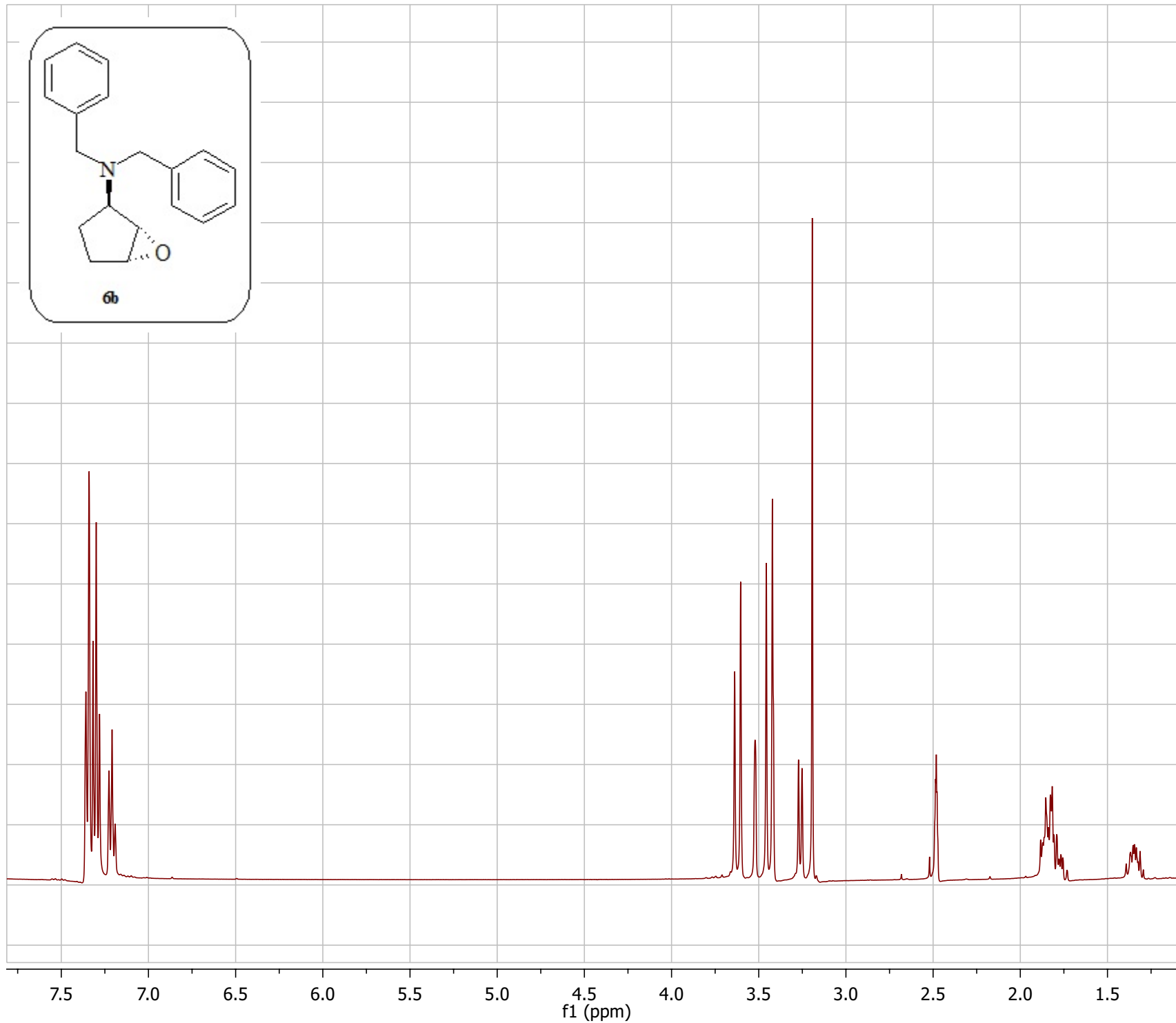


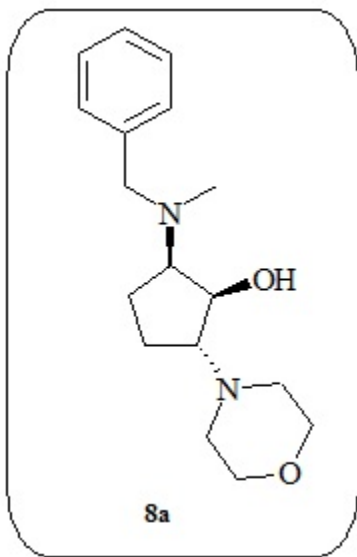
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17 Acquired Size	4118
18 Spectral Size	16384



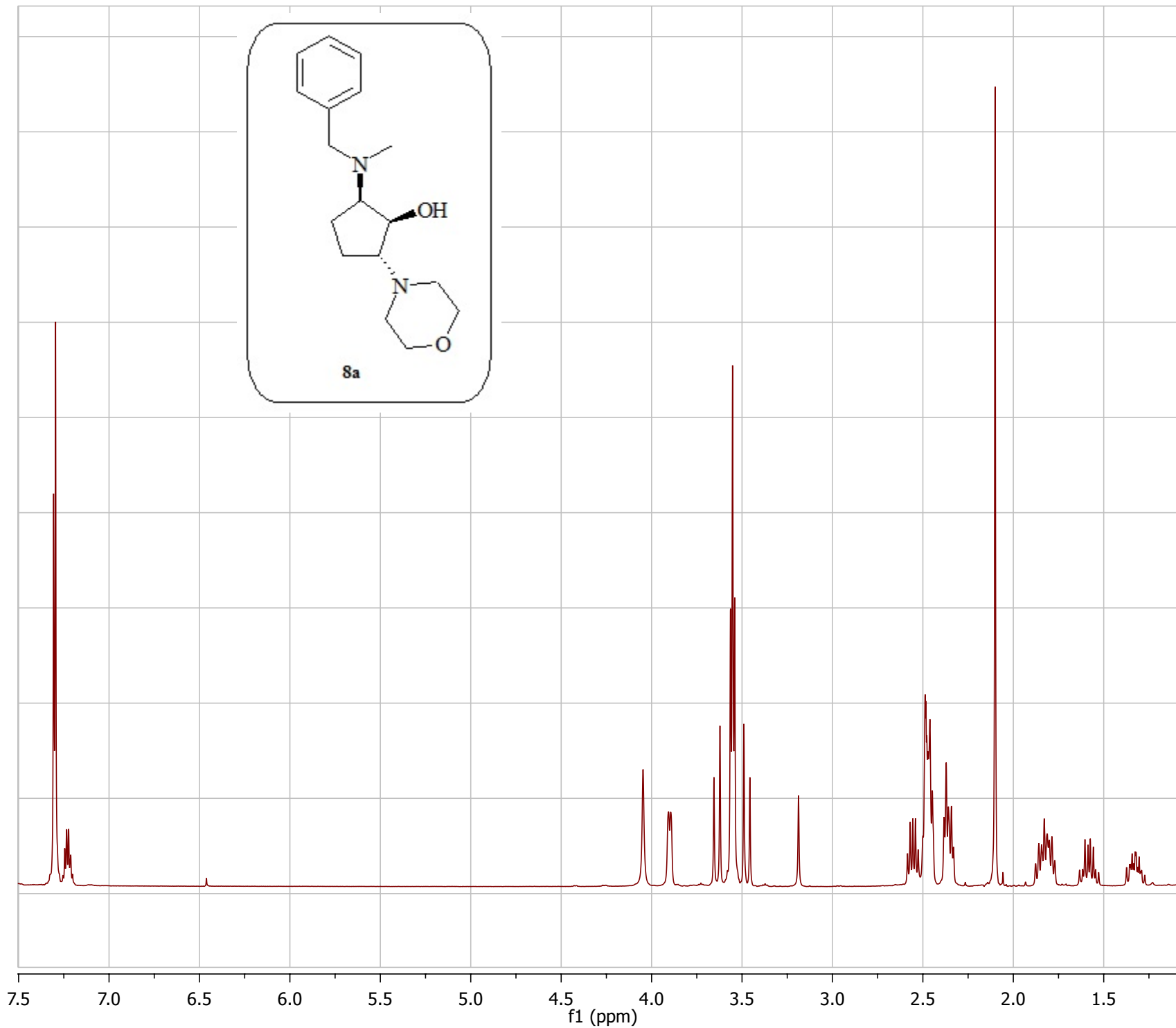


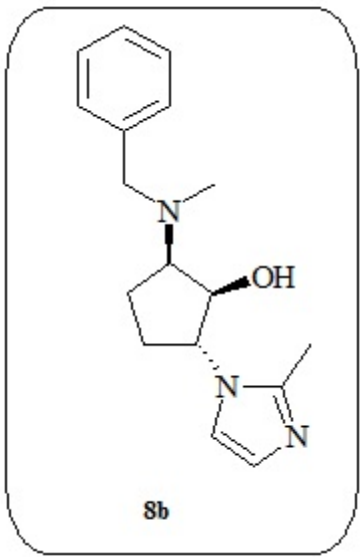
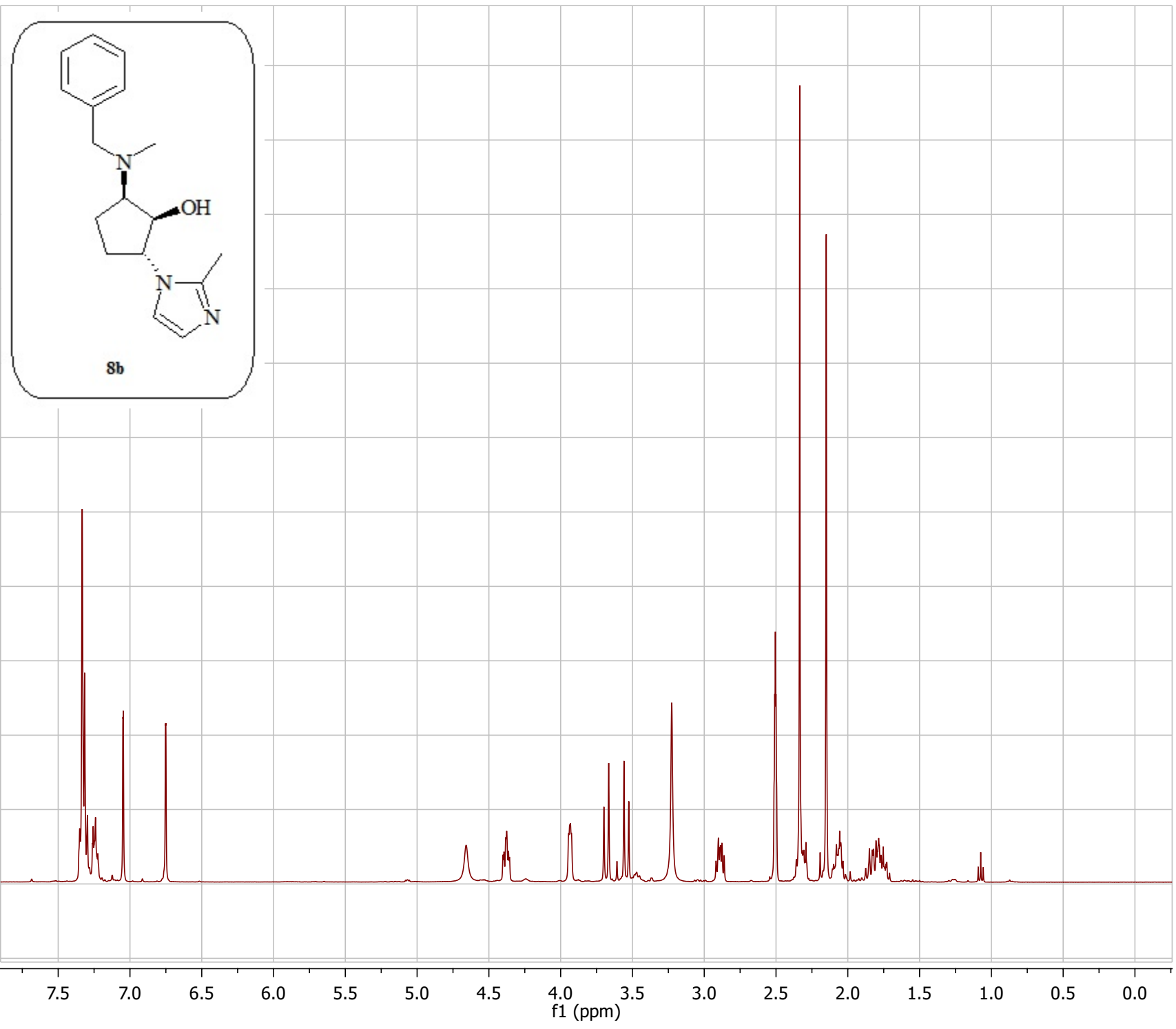
Параметр	Значение
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2 Spectrometer	mercury
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4 Solvent	DMSO
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18 Spectral Size	16384



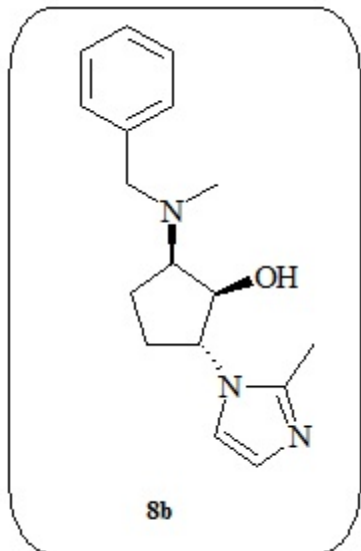


Параметр	Значение
1 Origin	Varian
2 Spectrometer	mercury
3 Author	vnmr1
4 Solvent	DMSO
5 Temperature	50.0
6 Pulse Sequence	s2pul
7 Number of Scans	4
8 Receiver Gain	8
9 Relaxation Delay	3.0000
10 Pulse Width	0.0000
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16 Nucleus	¹ H
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18 Spectral Size	8192

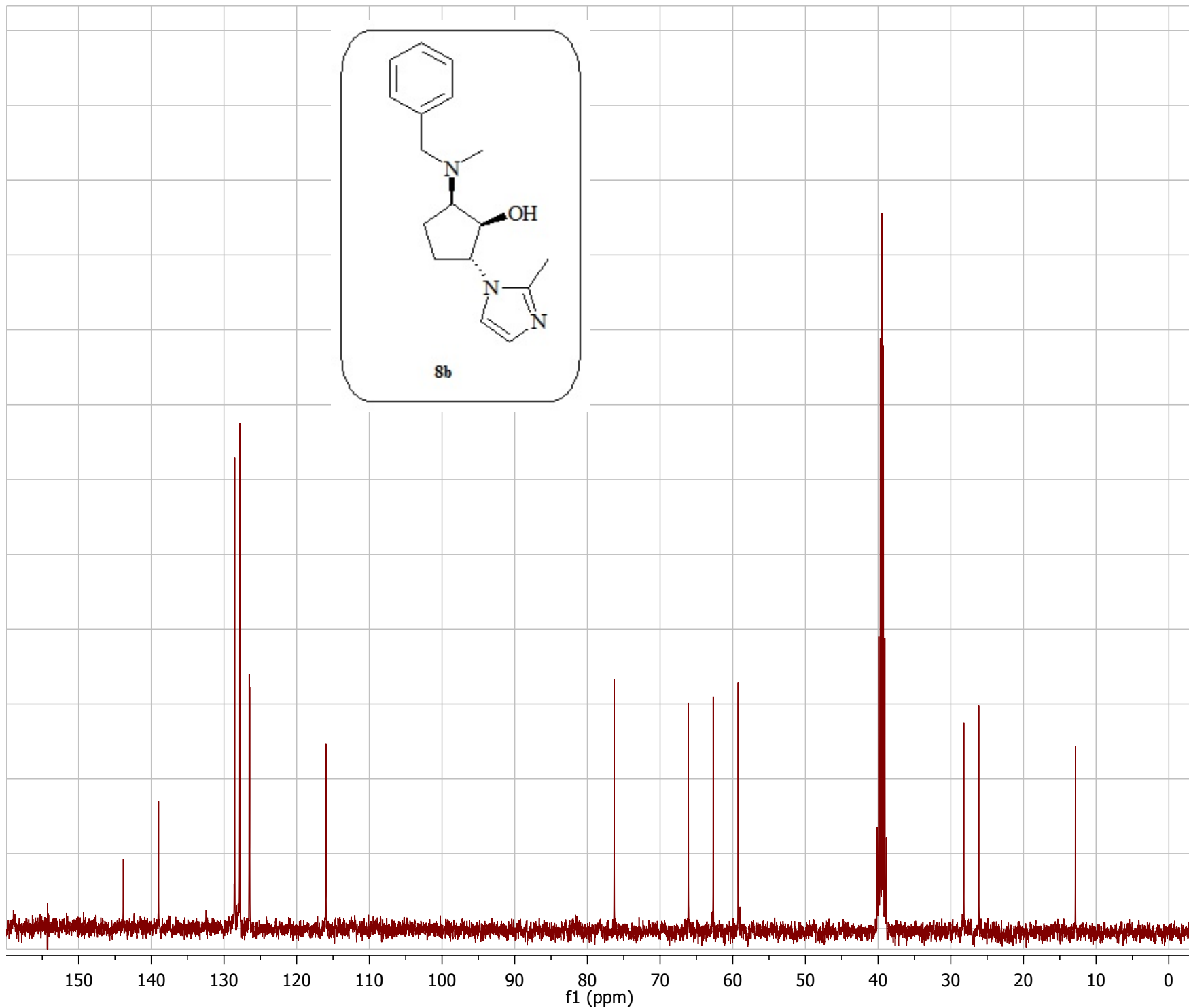


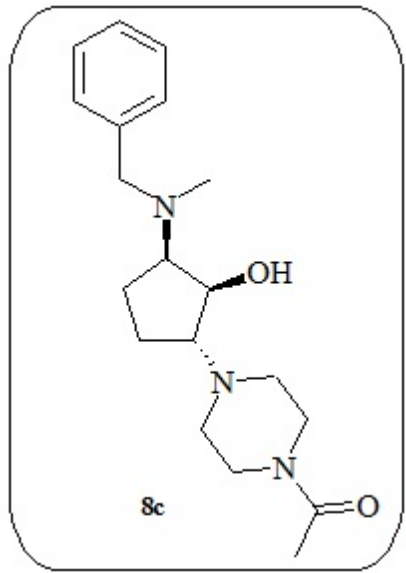


Параметр	Значение
1 Origin	Varian
2 Spectrometer	mercury
3 Author	vnmr1
4 Solvent	DMSO
5 Temperature	50.0
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7 Number of Scans	4
8 Receiver Gain	20
9 Relaxation Delay	3.0000
10 Pulse Width	0.0000
11 Acquisition Time	1.4000
12 Gradient Duration	0.0020
13 Spectrometer Frequency	400.46
14 Spectral Width	6535.9
15 Lowest Frequency	-375.7
16 Nucleus	1H
17 Acquired Size	9150
18 Spectral Size	32768

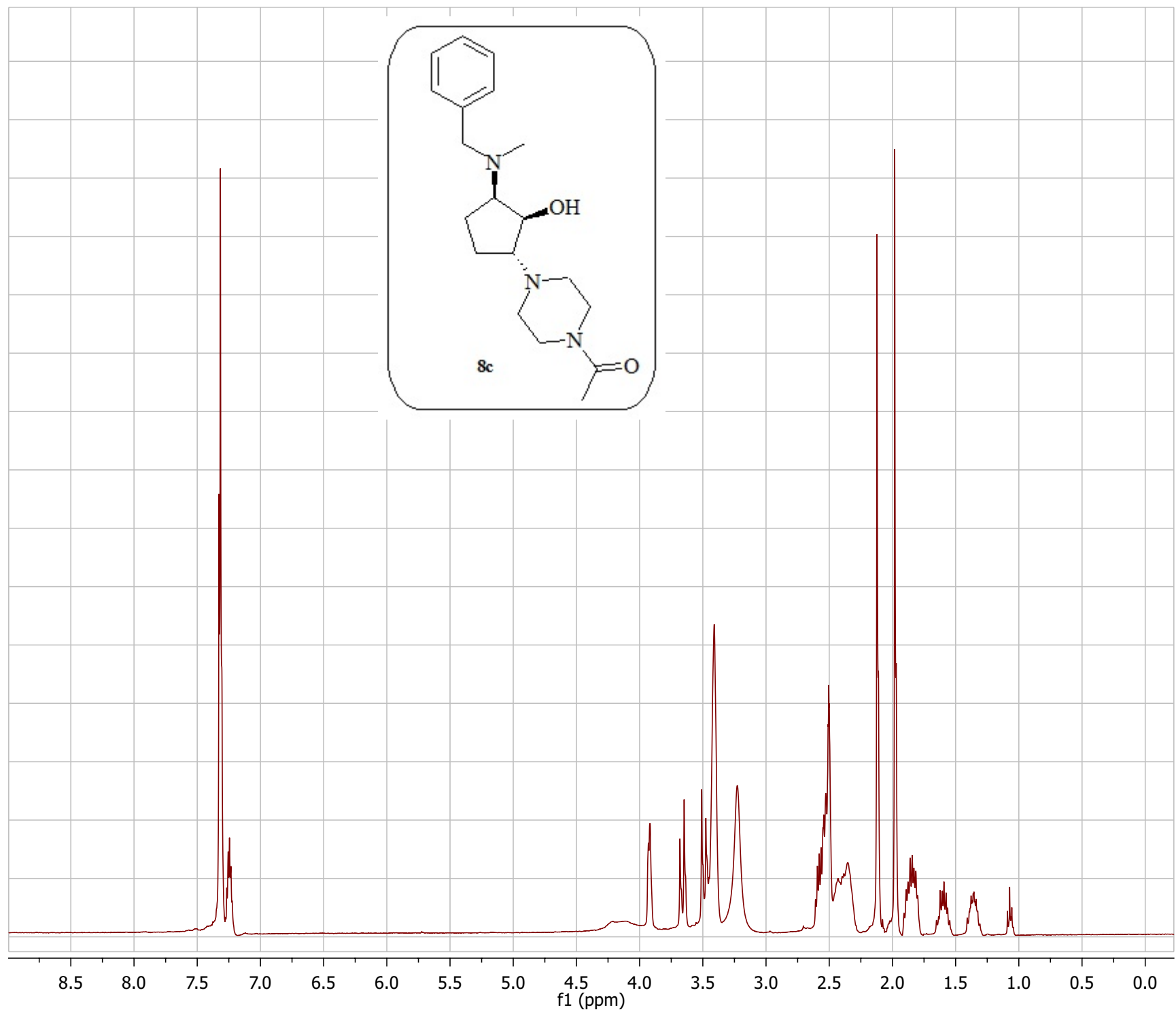


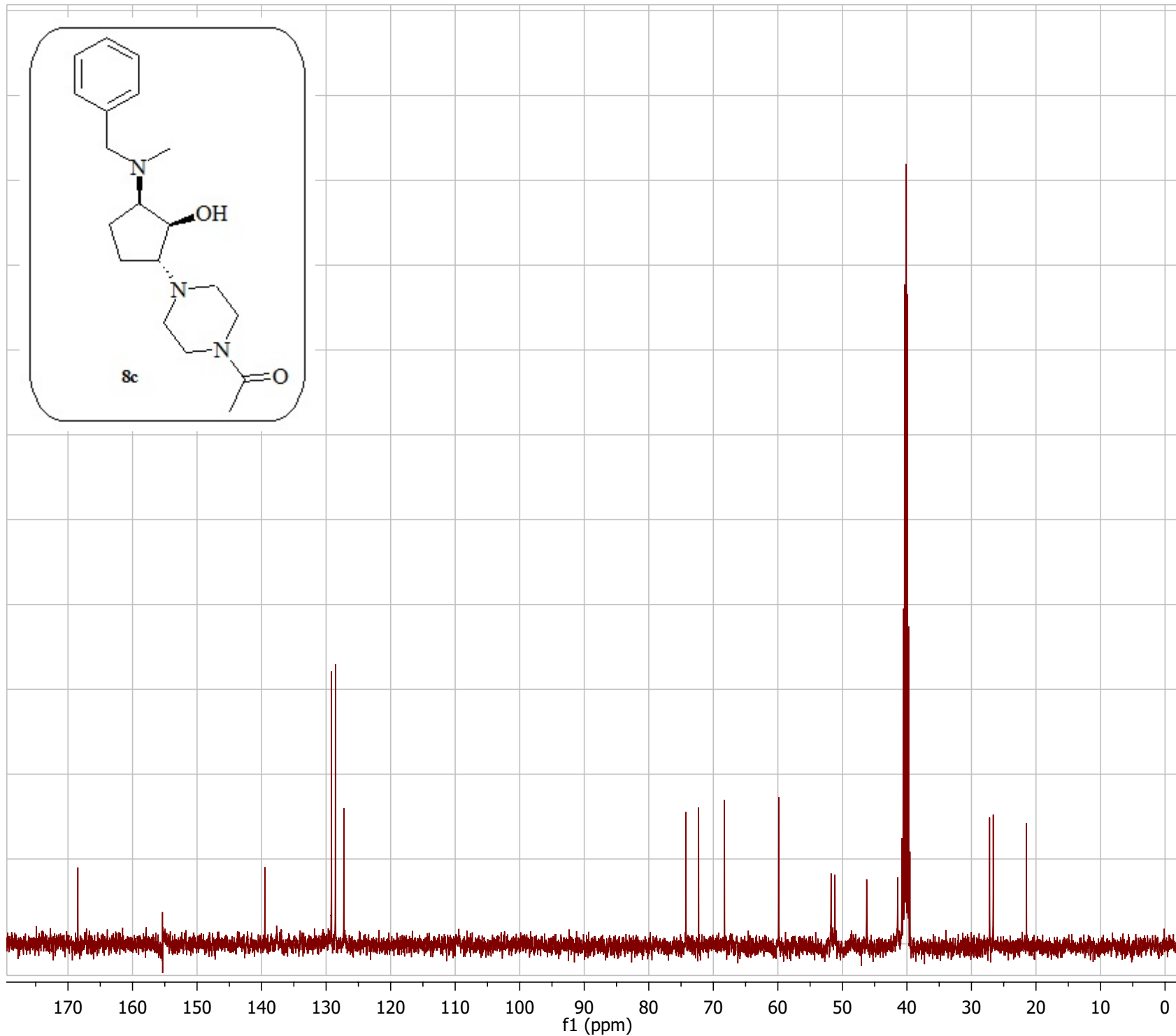
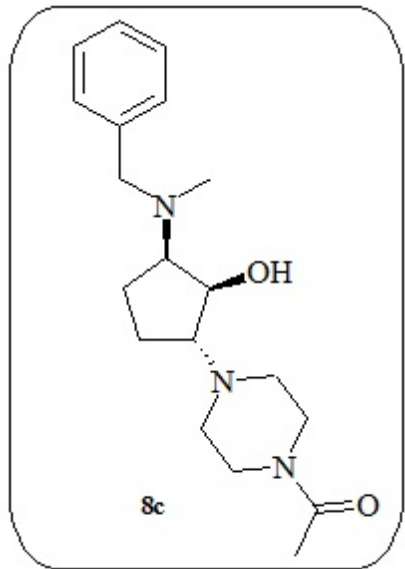
Параметр	Значение
1 Origin	Varian
2 Spectrometer	mercury
3 Author	vnmr1
4 Solvent	dms
5 Temperature	50.0
6 Pulse Sequence	s2pul
7 Number of Scans	256
8 Receiver Gain	38
9 Relaxation Delay	3.0000
10 Pulse Width	0.0000
11 Acquisition Time	2.4448
12 Gradient Duration	0.0020
13 Spectrometer Frequency	100.71
14 Spectral Width	26178.0
15 Lowest Frequency	-1087.7
16 Nucleus	13C
17 Acquired Size	64000
18 Spectral Size	131072



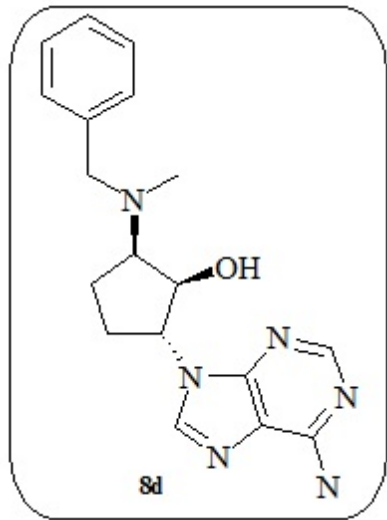


Параметр	Значение
1 Origin	Varian
2 Spectrometer	mercury
3 Author	vnmr1
4 Solvent	DMSO
5 Temperature	50.0
6 Pulse Sequence	s222
7 Number of Scans	1
8 Receiver Gain	4
9 Relaxation Delay	3.0000
10 Pulse Width	0.0000
11 Acquisition Time	1.4000
12 Gradient Duration	0.0020
13 Spectrometer Frequency	400.46
14 Spectral Width	6535.9
15 Lowest Frequency	-376.9
16 Nucleus	1H
17 Acquired Size	9150
18 Spectral Size	32768

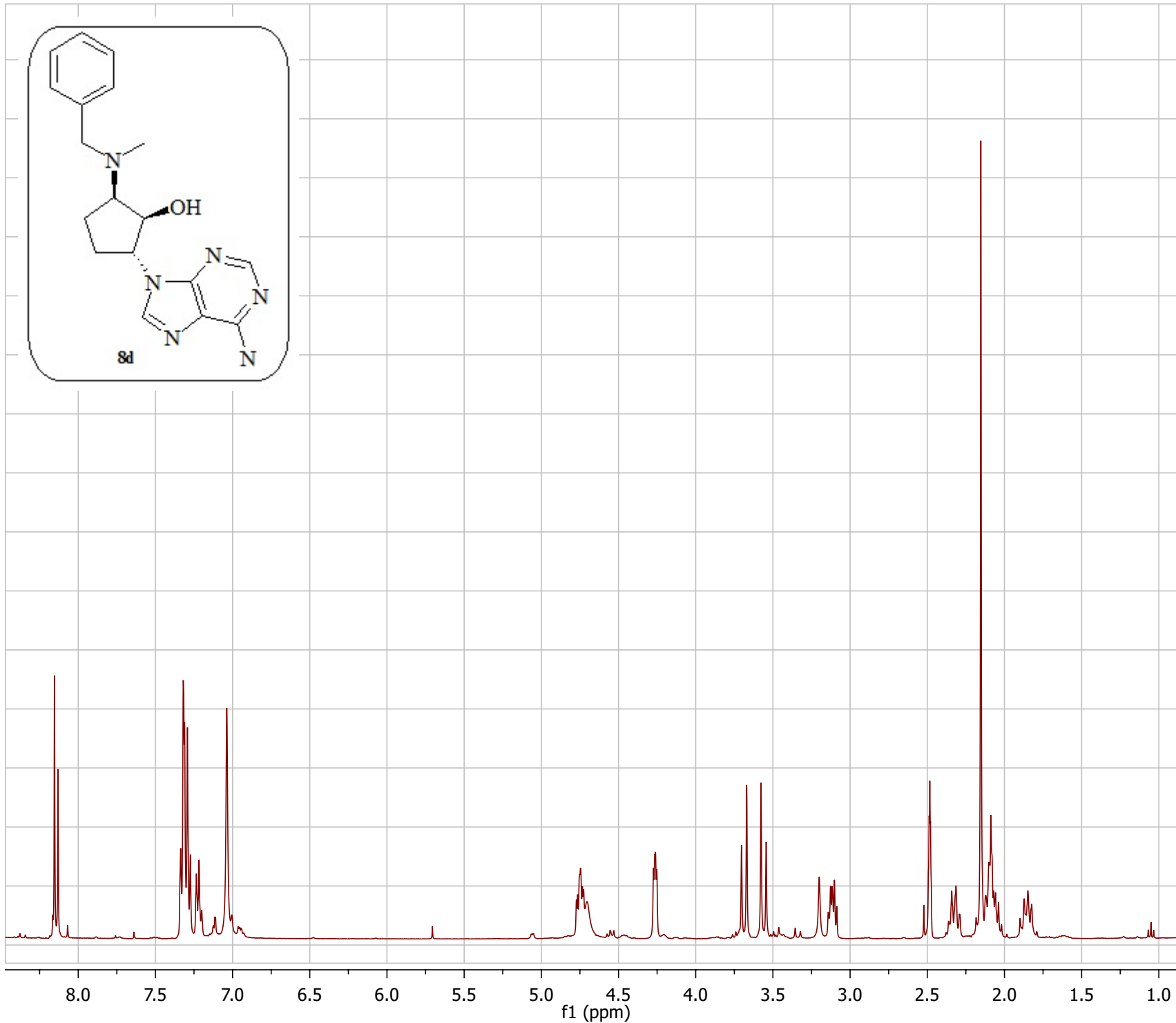


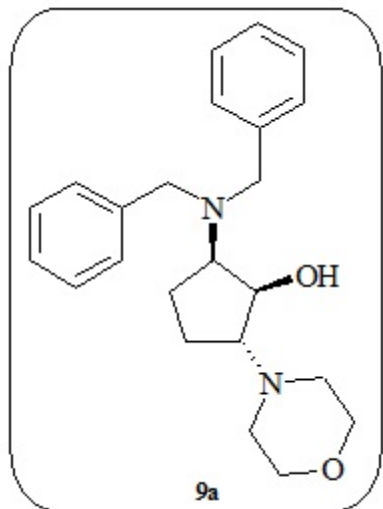


Параметр	Значение
1 Origin	Varian
2 Spectrometer	mercury
3 Author	vnmr1
4 Solvent	dms0
5 Temperature	50.0
6 Pulse Sequence	s2pul
7 Number of Scans	256
8 Receiver Gain	38
9 Relaxation Delay	3.0000
10 Pulse Width	0.0000
11 Acquisition Time	2.4448
12 Gradient Duration	0.0020
13 Spectrometer Frequency	100.71
14 Spectral Width	26178.0
15 Lowest Frequency	-1020.9
16 Nucleus	13C
17 Acquired Size	64000
18 Spectral Size	131072

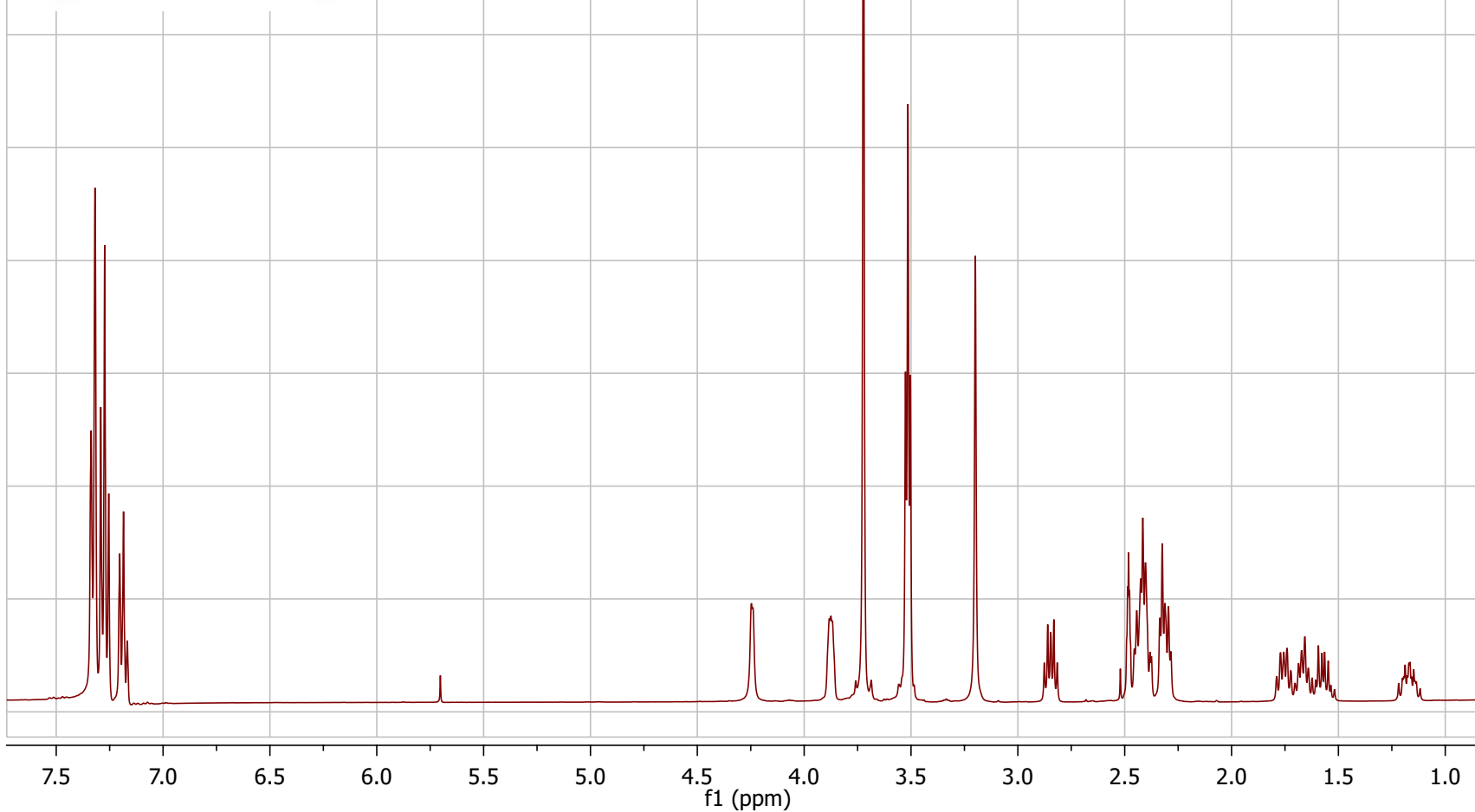


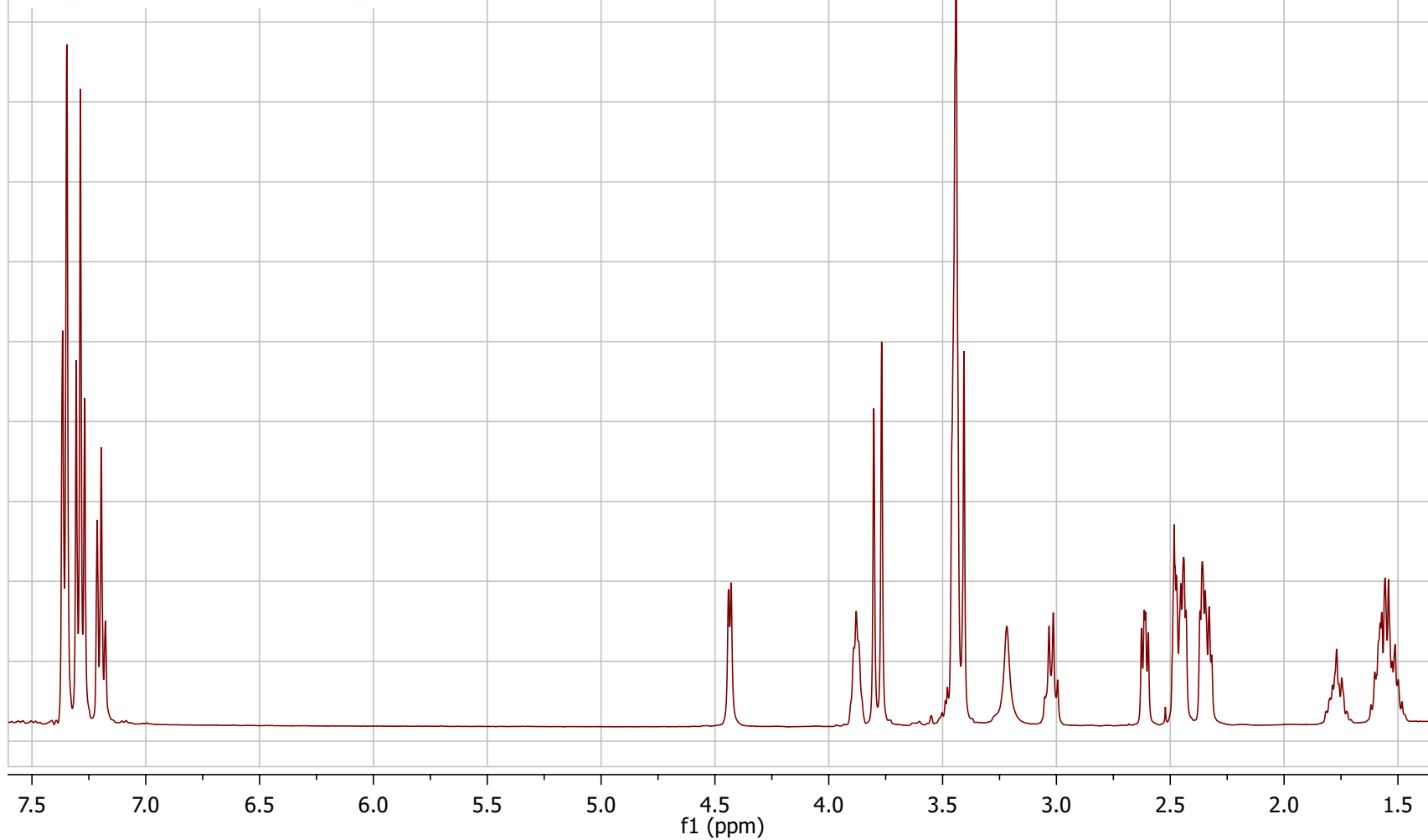
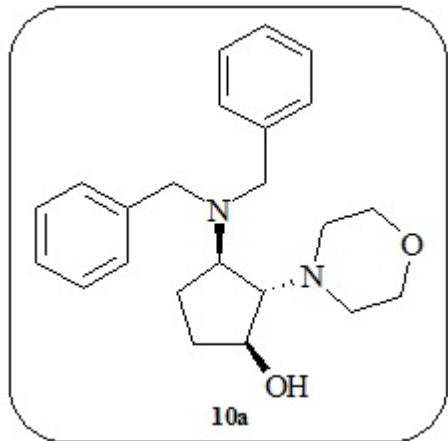
Параметр	Значение
1 Origin	Varian
2 Spectrometer	mercury
3 Author	vnmr1
4 Solvent	DMSO
5 Temperature	50.0
6 Pulse Sequence	s2pul
7 Number of Scans	4
8 Receiver Gain	8
9 Relaxation Delay	3.0000
10 Pulse Width	0.0000
11 Acquisition Time	1.3982
12 Gradient Duration	0.0020
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14 Spectral Width	3064.7
15 Lowest Frequency	327.9
16 Nucleus	1H
17 Acquired Size	4285
18 Spectral Size	16384



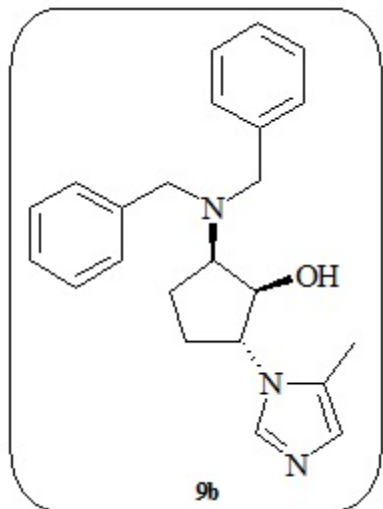


Параметр	Значение
1 Origin	Varian
2 Spectrometer	mercury
3 Author	vnmr1
4 Solvent	DMSO
5 Temperature	50.0
6 Pulse Sequence	s2pul
7 Number of Scans	16
8 Receiver Gain	8
9 Relaxation Delay	3.0000
10 Pulse Width	0.0000
11 Acquisition Time	2.4998
12 Gradient Duration	0.0020
13 Spectrometer Frequency	400.45
14 Spectral Width	2777.8
15 Lowest Frequency	318.3
16 Nucleus	¹ H
17 Acquired Size	6944
18 Spectral Size	16384

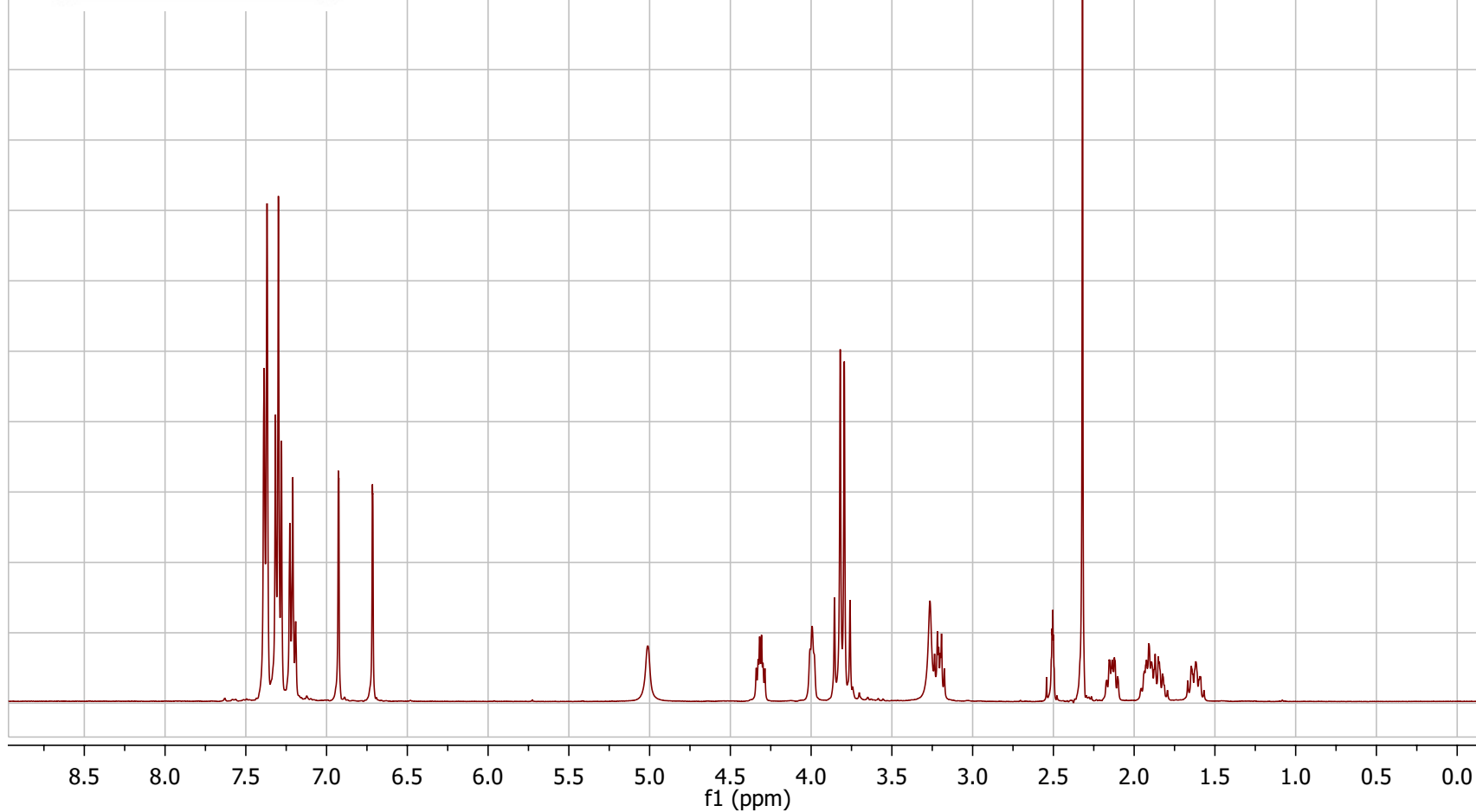


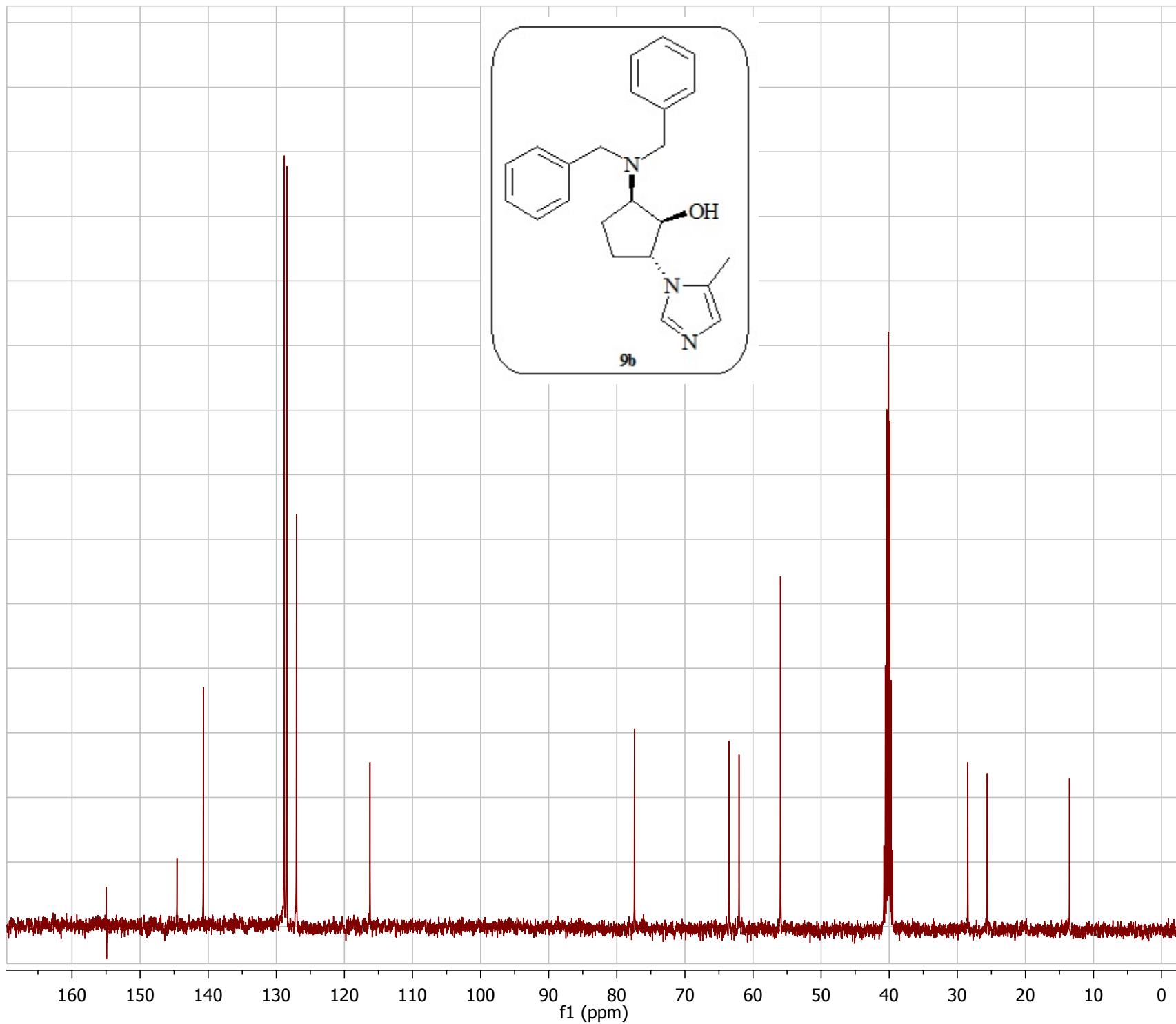


Параметр	Значение
1 Origin	Varian
2 Spectrometer	mercury
3 Author	vnmr1
4 Solvent	DMSO
5 Temperature	50.0
6 Pulse Sequence	s2pul
7 Number of Scans	4
8 Receiver Gain	4
9 Relaxation Delay	3.0000
10 Pulse Width	0.0000
11 Acquisition Time	1.4003
12 Gradient Duration	0.0020
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14 Spectral Width	2513.8
15 Lowest Frequency	531.3
16 Nucleus	1H
17 Acquired Size	3520
18 Spectral Size	8192

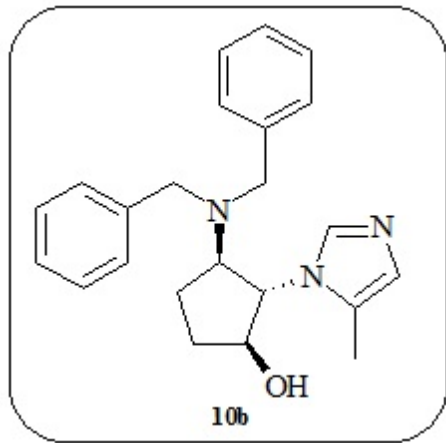


Параметр	Значение
1 Origin	Varian
2 Spectrometer	mercury
3 Author	vnmr1
4 Solvent	DMSO
5 Temperature	50.0
6 Pulse Sequence	s222
7 Number of Scans	1
8 Receiver Gain	4
9 Relaxation Delay	3.0000
10 Pulse Width	0.0000
11 Acquisition Time	1.4000
12 Gradient Duration	0.0020
13 Spectrometer Frequency	400.46
14 Spectral Width	6535.9
15 Lowest Frequency	-376.1
16 Nucleus	¹ H
17 Acquired Size	9150
18 Spectral Size	32768

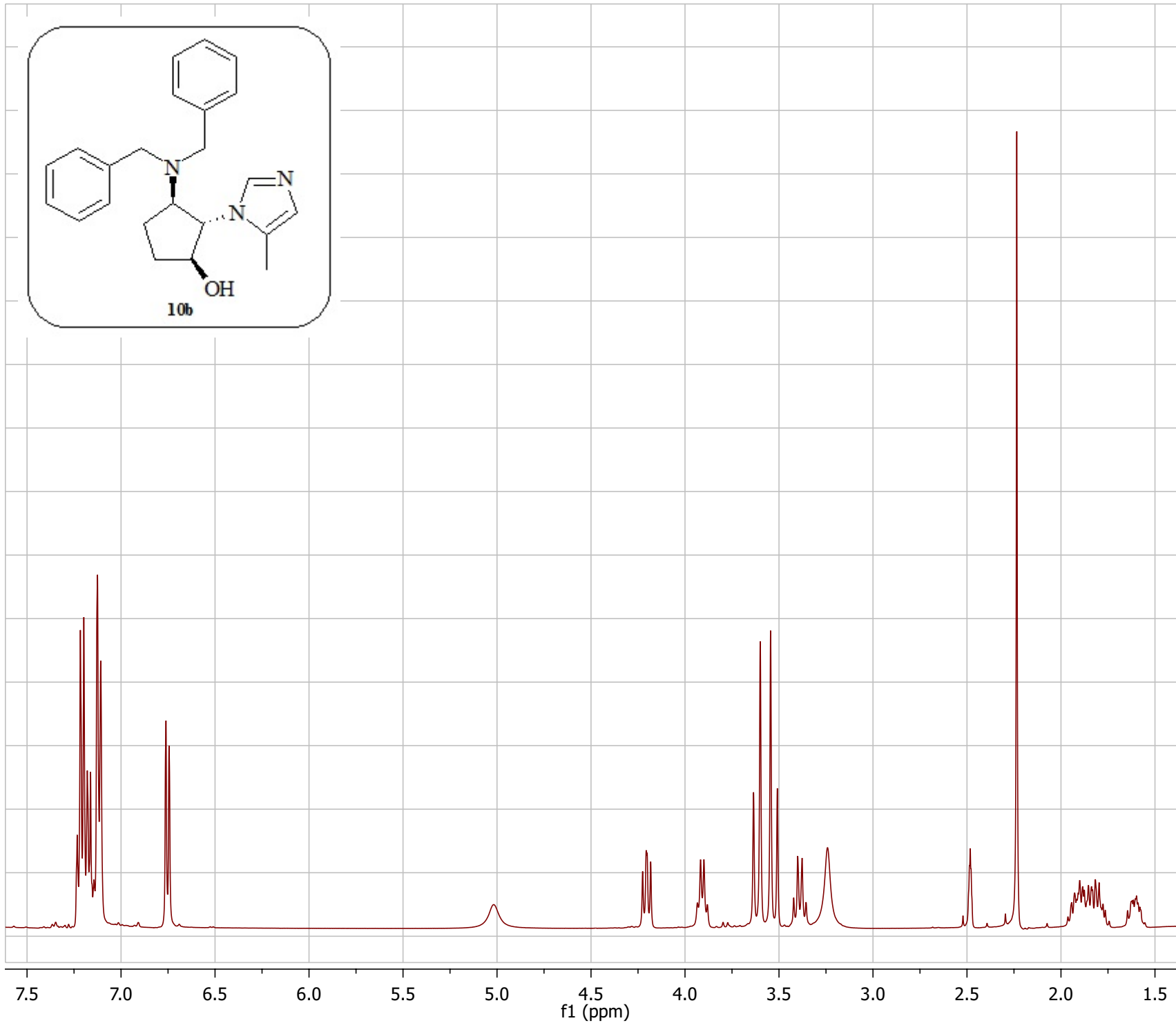


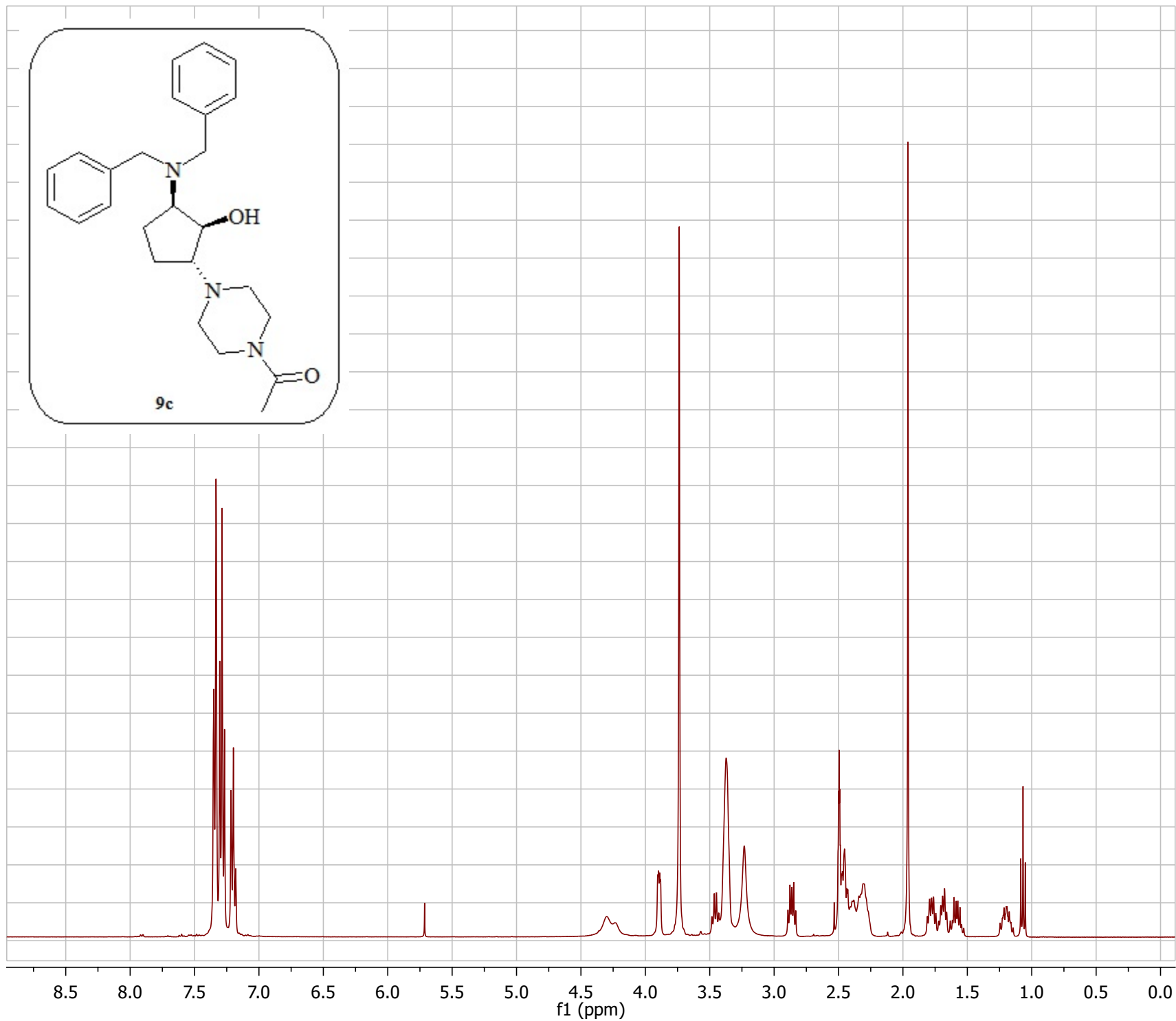
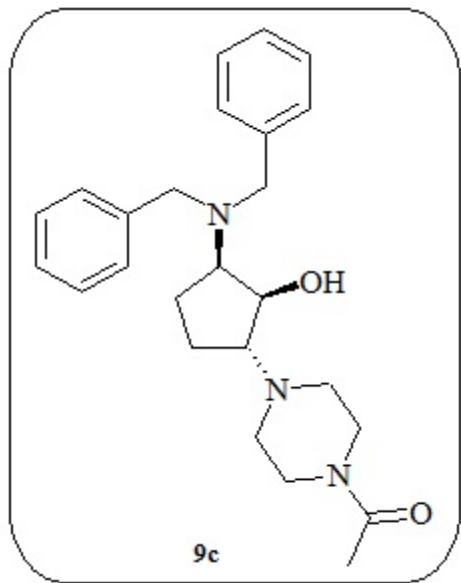


Параметр	Значение
1 Origin	Varian
2 Spectrometer	mercury
3 Author	vnmr1
4 Solvent	dms0
5 Temperature	50.0
6 Pulse Sequence	s2pul
7 Number of Scans	256
8 Receiver Gain	38
9 Relaxation Delay	3.0000
10 Pulse Width	0.0000
11 Acquisition Time	2.4448
12 Gradient Duration	0.0020
13 Spectrometer Frequency	100.71
14 Spectral Width	26178.0
15 Lowest Frequency	-1022.5
16 Nucleus	13C
17 Acquired Size	64000
18 Spectral Size	131072

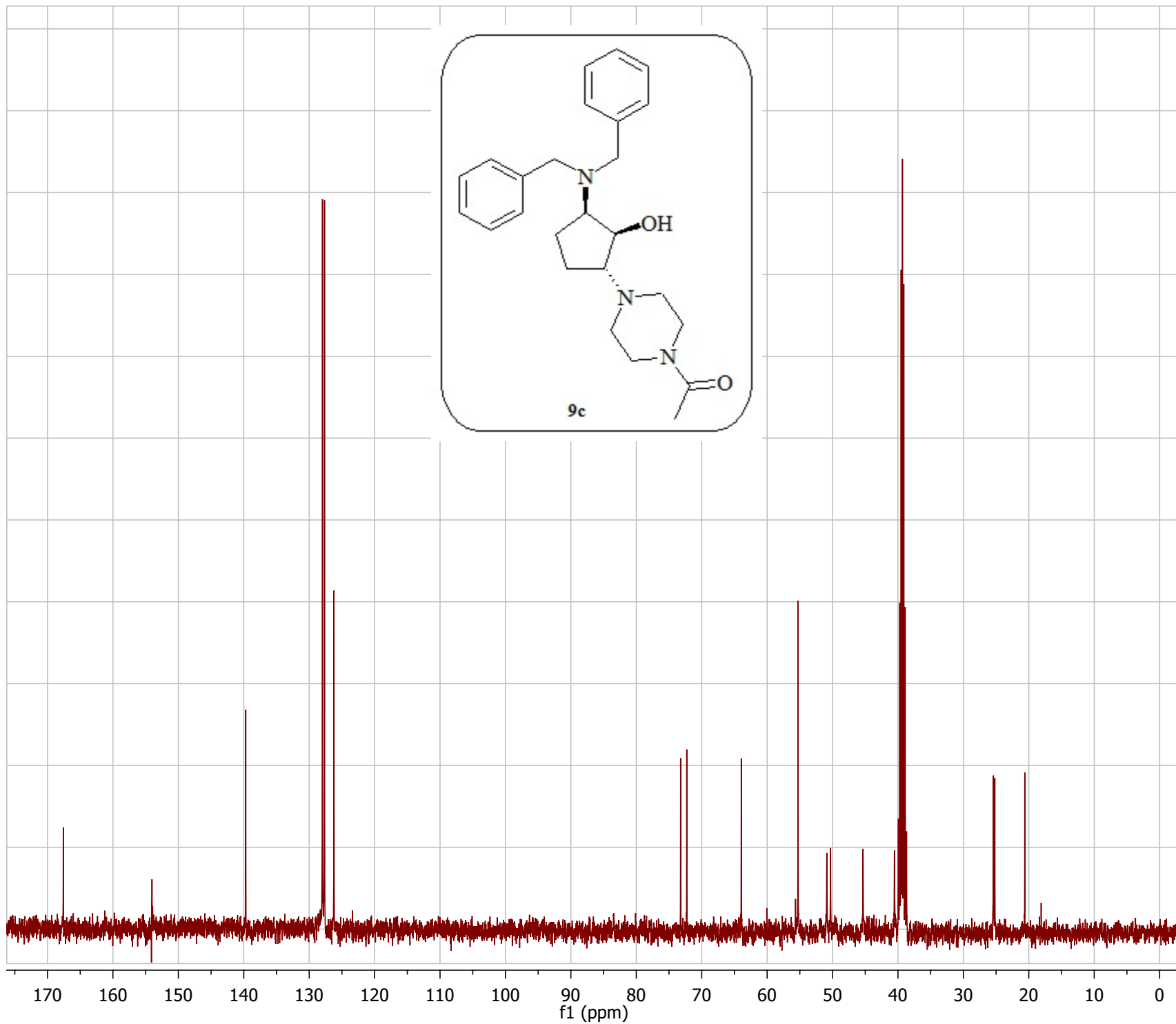


Параметр	Значение
1 Origin	Varian
2 Spectrometer	mercury
3 Author	vnmr1
4 Solvent	DMSO
5 Temperature	50.0
6 Pulse Sequence	s2pul
7 Number of Scans	16
8 Receiver Gain	4
9 Relaxation Delay	3.0000
10 Pulse Width	0.0000
11 Acquisition Time	2.5002
12 Gradient Duration	0.0020
13 Spectrometer Frequency	400.45
14 Spectral Width	2513.8
15 Lowest Frequency	535.7
16 Nucleus	¹ H
17 Acquired Size	6285
18 Spectral Size	16384

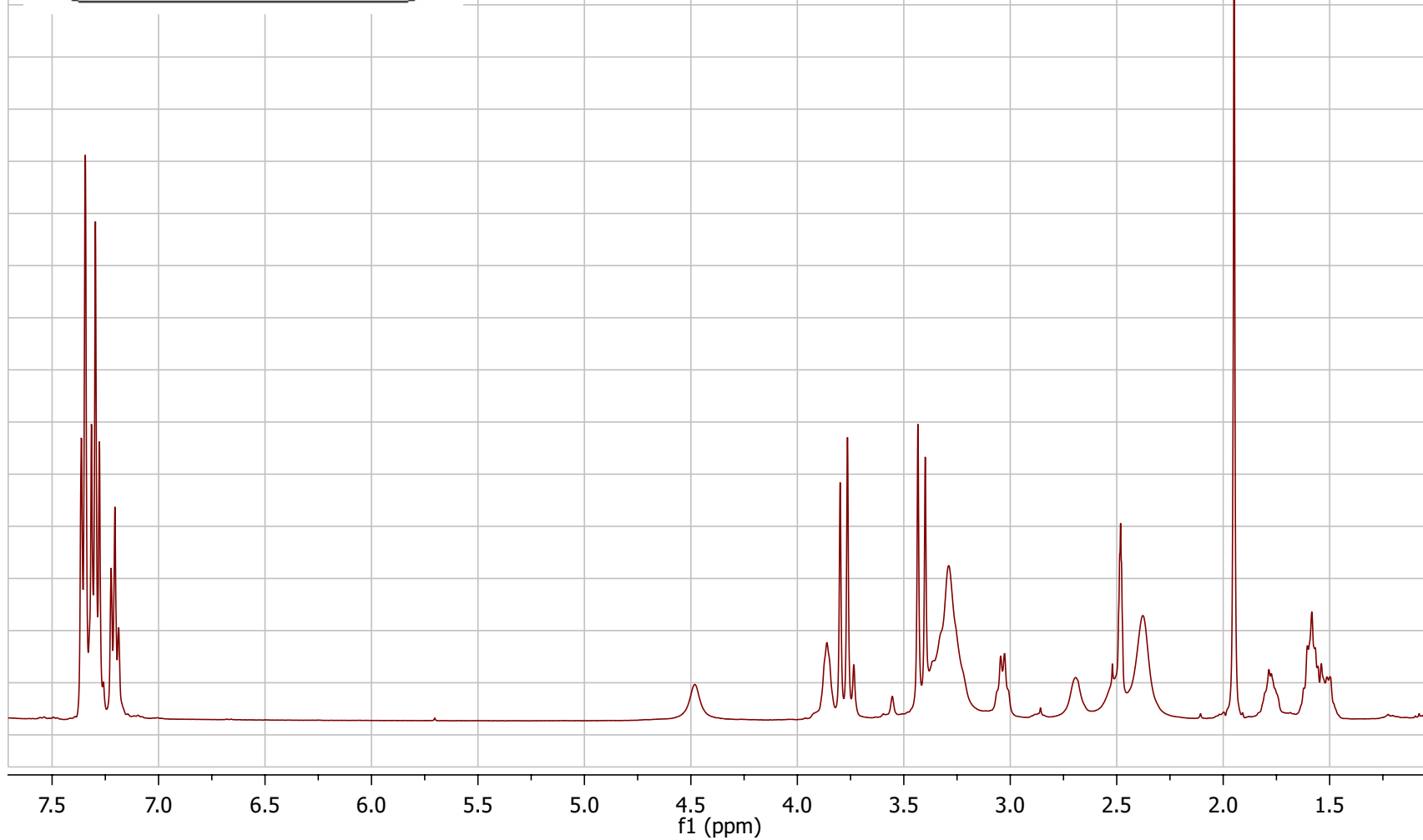
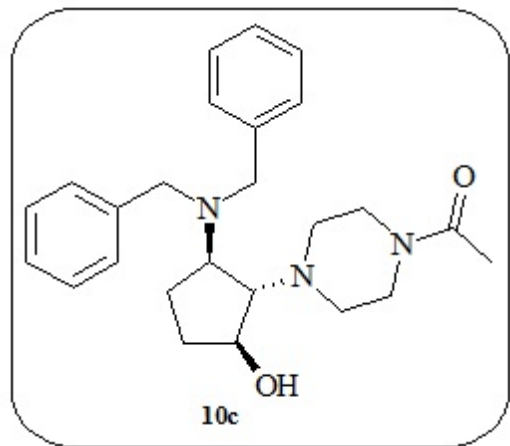




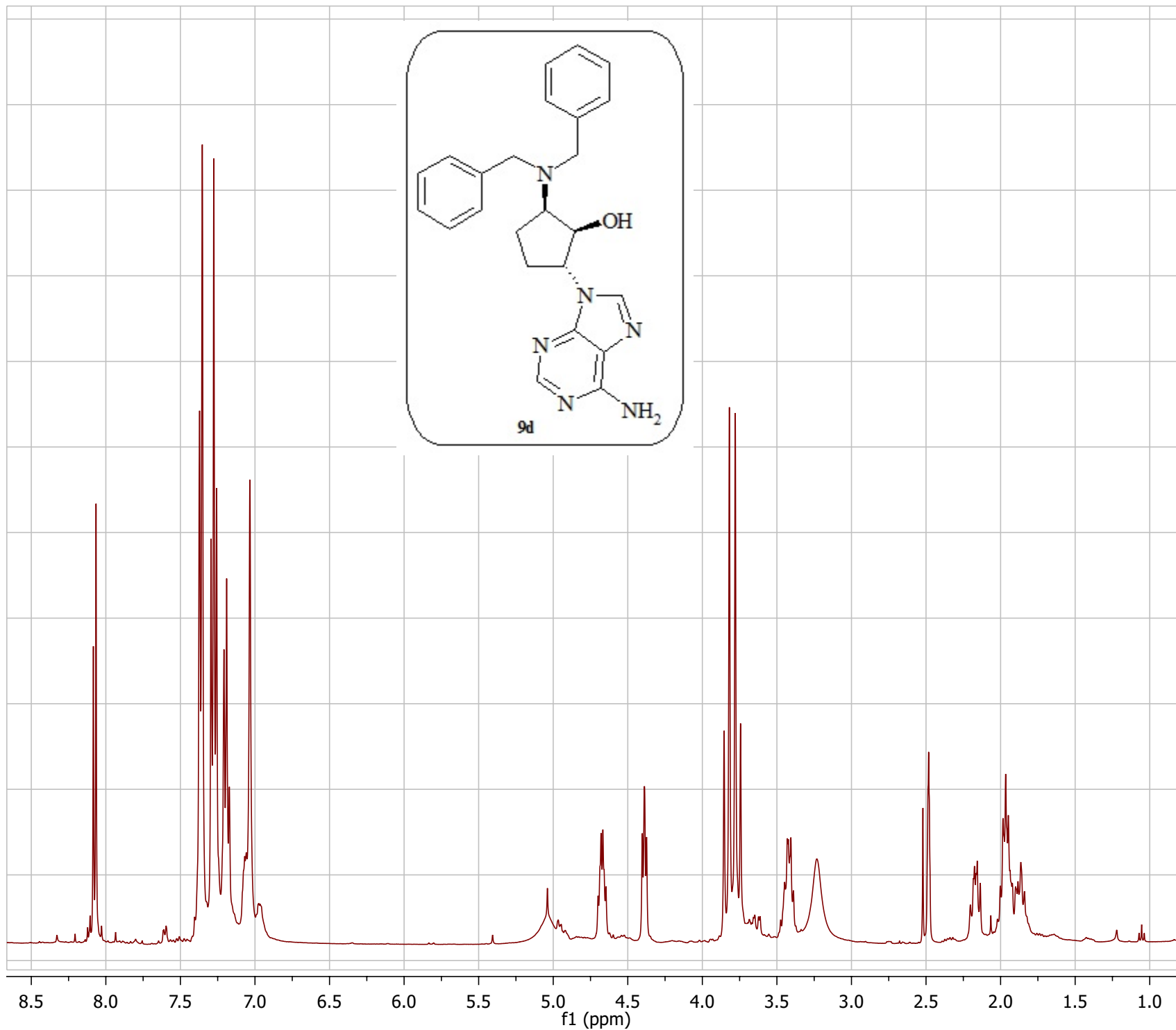
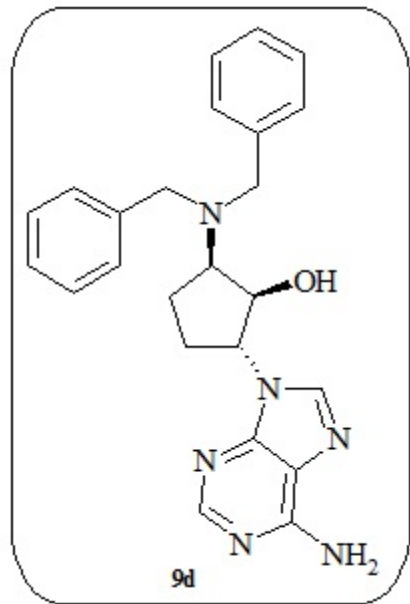
Параметр	Значение
1 Origin	Varian
2 Spectrometer	mercury
3 Author	vnmr1
4 Solvent	DMSO
5 Temperature	50.0
6 Pulse Sequence	s222
7 Number of Scans	4
8 Receiver Gain	8
9 Relaxation Delay	3.0000
10 Pulse Width	0.0000
11 Acquisition Time	1.4000
12 Gradient Duration	0.0020
13 Spectrometer Frequency	400.46
14 Spectral Width	6535.9
15 Lowest Frequency	-379.8
16 Nucleus	1H
17 Acquired Size	9150
18 Spectral Size	32768



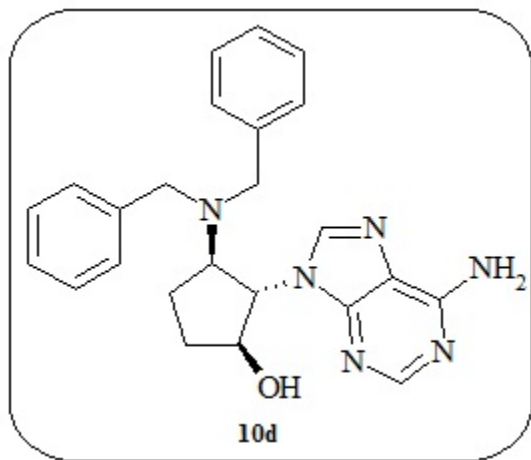
Параметр	Значение
1 Origin	Varian
2 Spectrometer	mercury
3 Author	vnmr1
4 Solvent	dms0
5 Temperature	50.0
6 Pulse Sequence	s2pul
7 Number of Scans	256
8 Receiver Gain	38
9 Relaxation Delay	3.0000
10 Pulse Width	0.0000
11 Acquisition Time	2.4448
12 Gradient Duration	0.0020
13 Spectrometer Frequency	100.71
14 Spectral Width	26178.0
15 Lowest Frequency	-1106.4
16 Nucleus	13C
17 Acquired Size	64000
18 Spectral Size	131072



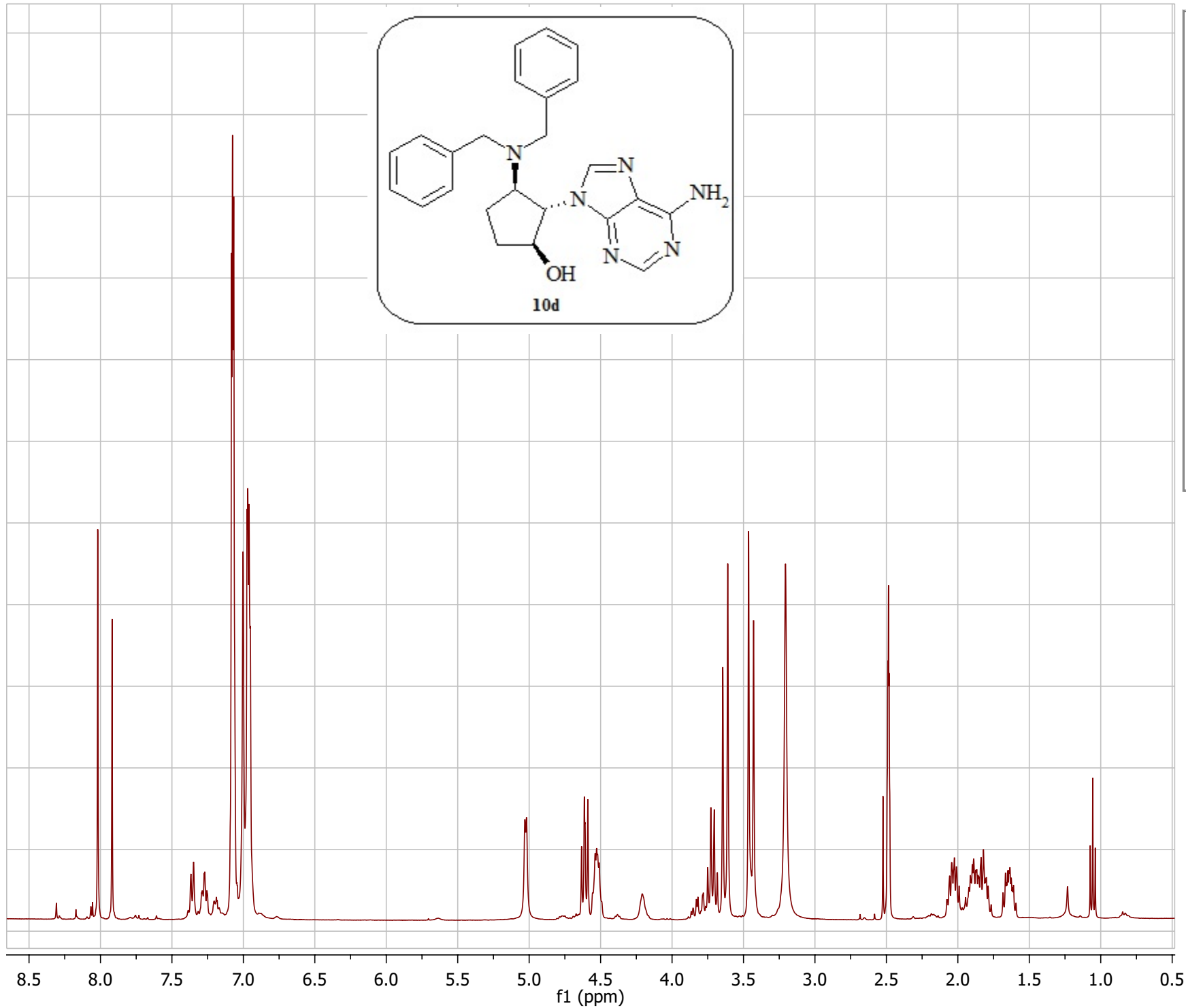
Параметр	Значение
1 Origin	Varian
2 Spectrometer	mercury
3 Author	vnmr1
4 Solvent	DMSO
5 Temperature	50.0
6 Pulse Sequence	s2pul
7 Number of Scans	4
8 Receiver Gain	8
9 Relaxation Delay	3.0000
10 Pulse Width	0.0000
11 Acquisition Time	1.3991
12 Gradient Duration	0.0020
13 Spectrometer Frequency	400.45
14 Spectral Width	2677.4
15 Lowest Frequency	408.6
16 Nucleus	1H
17 Acquired Size	3746
18 Spectral Size	8192

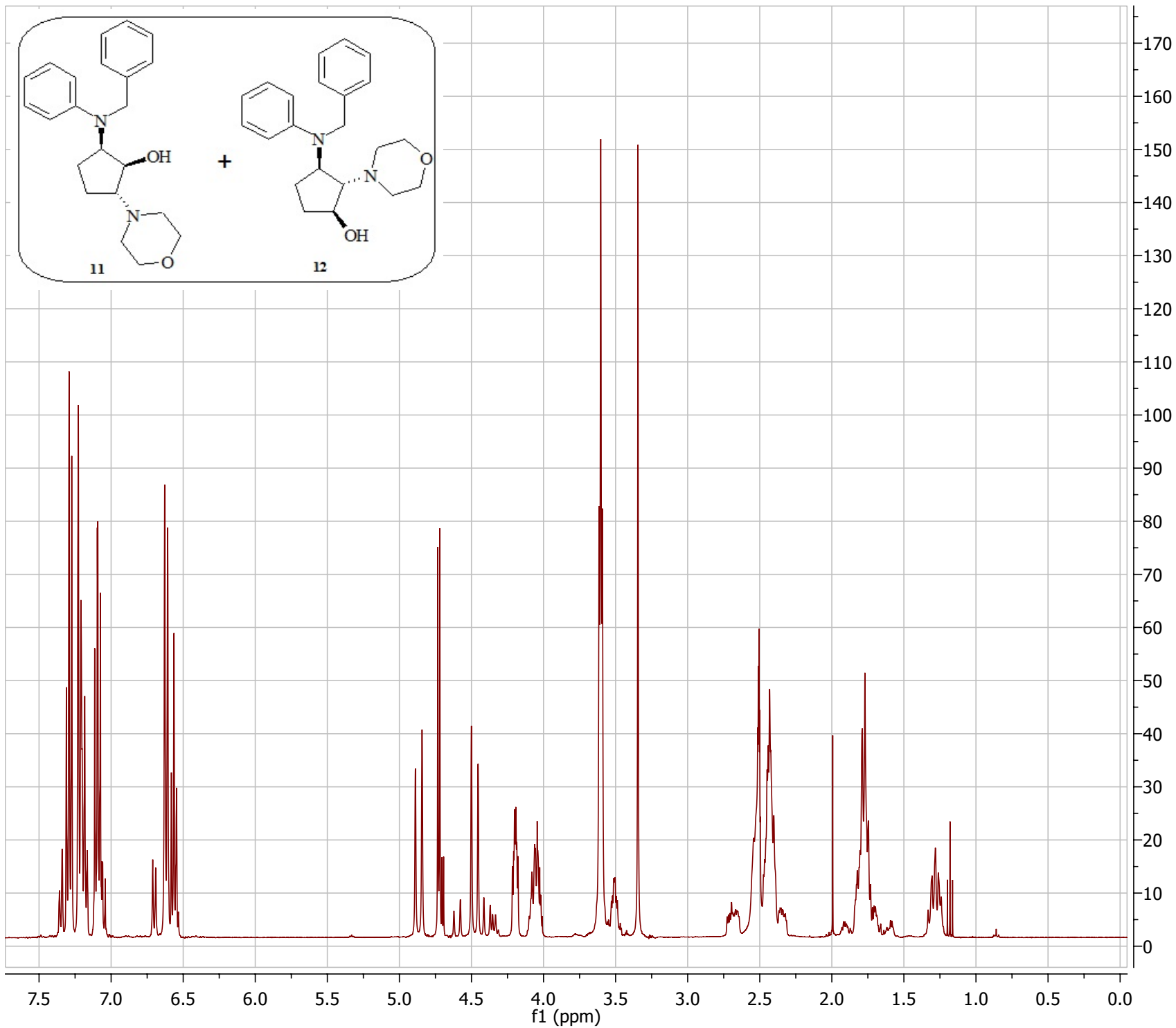


Параметр	Значение
1 Origin	Varian
2 Spectrometer	mercury
3 Author	vnmr1
4 Solvent	DMSO
5 Temperature	50.0
6 Pulse Sequence	s2pul
7 Number of Scans	16
8 Receiver Gain	8
9 Relaxation Delay	3.0000
10 Pulse Width	0.0000
11 Acquisition Time	2.5000
12 Gradient Duration	0.0020
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14 Spectral Width	3165.6
15 Lowest Frequency	304.0
16 Nucleus	¹ H
17 Acquired Size	7914
18 Spectral Size	16384

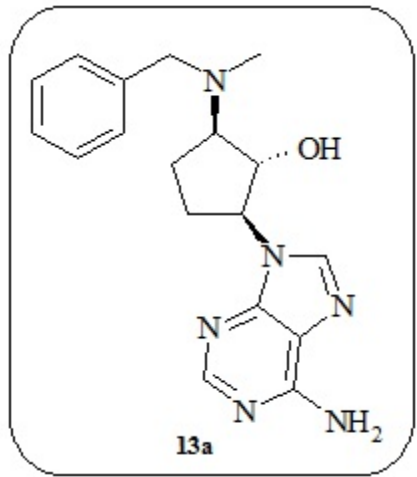


Параметр	Значение
1 Origin	Varian
2 Spectrometer	mercury
3 Author	vnmr1
4 Solvent	DMSO
5 Temperature	50.0
6 Pulse Sequence	s2pul
7 Number of Scans	16
8 Receiver Gain	12
9 Relaxation Delay	3.0000
10 Pulse Width	0.0000
11 Acquisition Time	2.4999
12 Gradient Duration	0.0020
13 Spectrometer Frequency	400.45
14 Spectral Width	3273.3
15 Lowest Frequency	193.2
16 Nucleus	¹ H
17 Acquired Size	8183
18 Spectral Size	16384

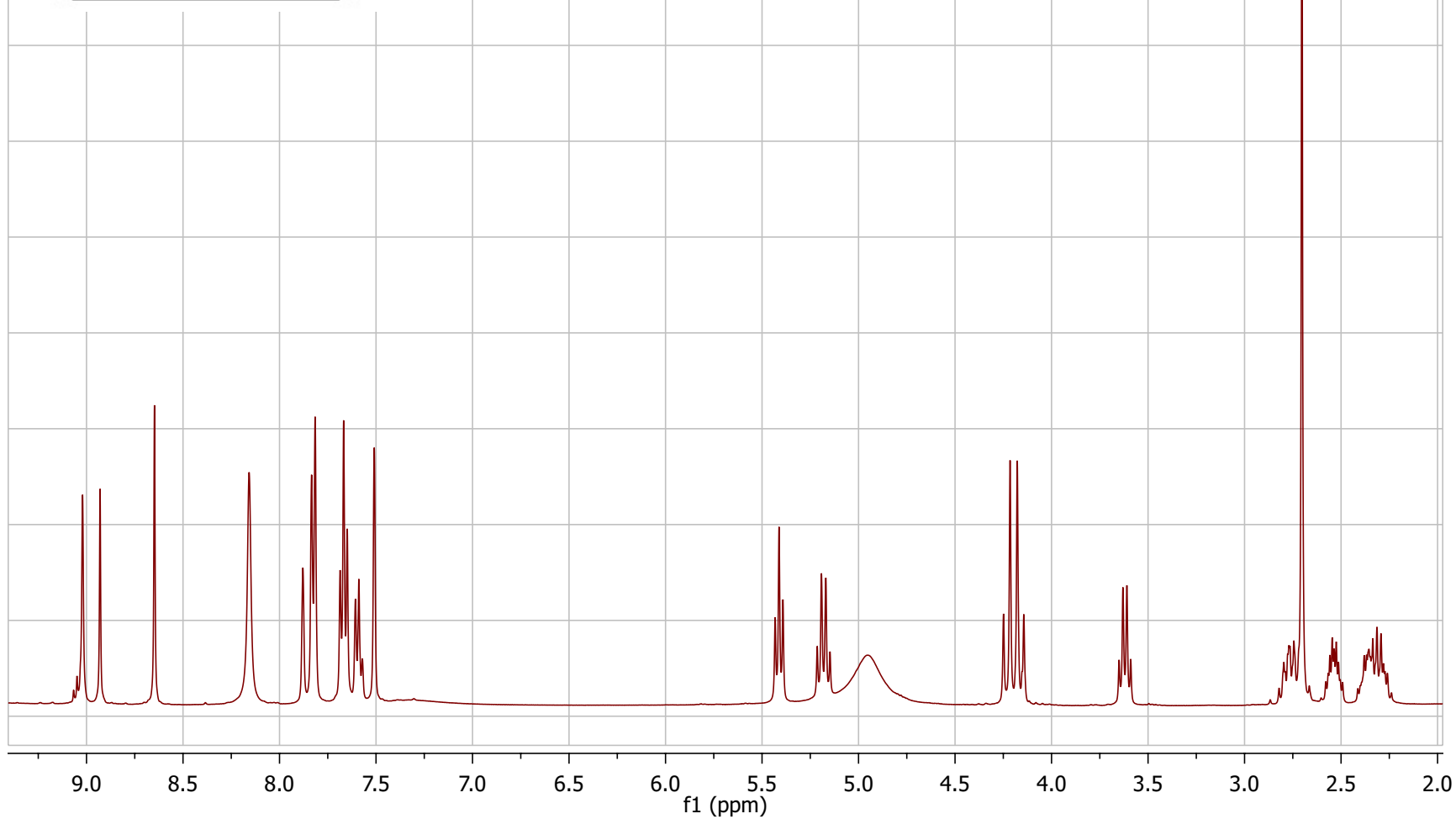


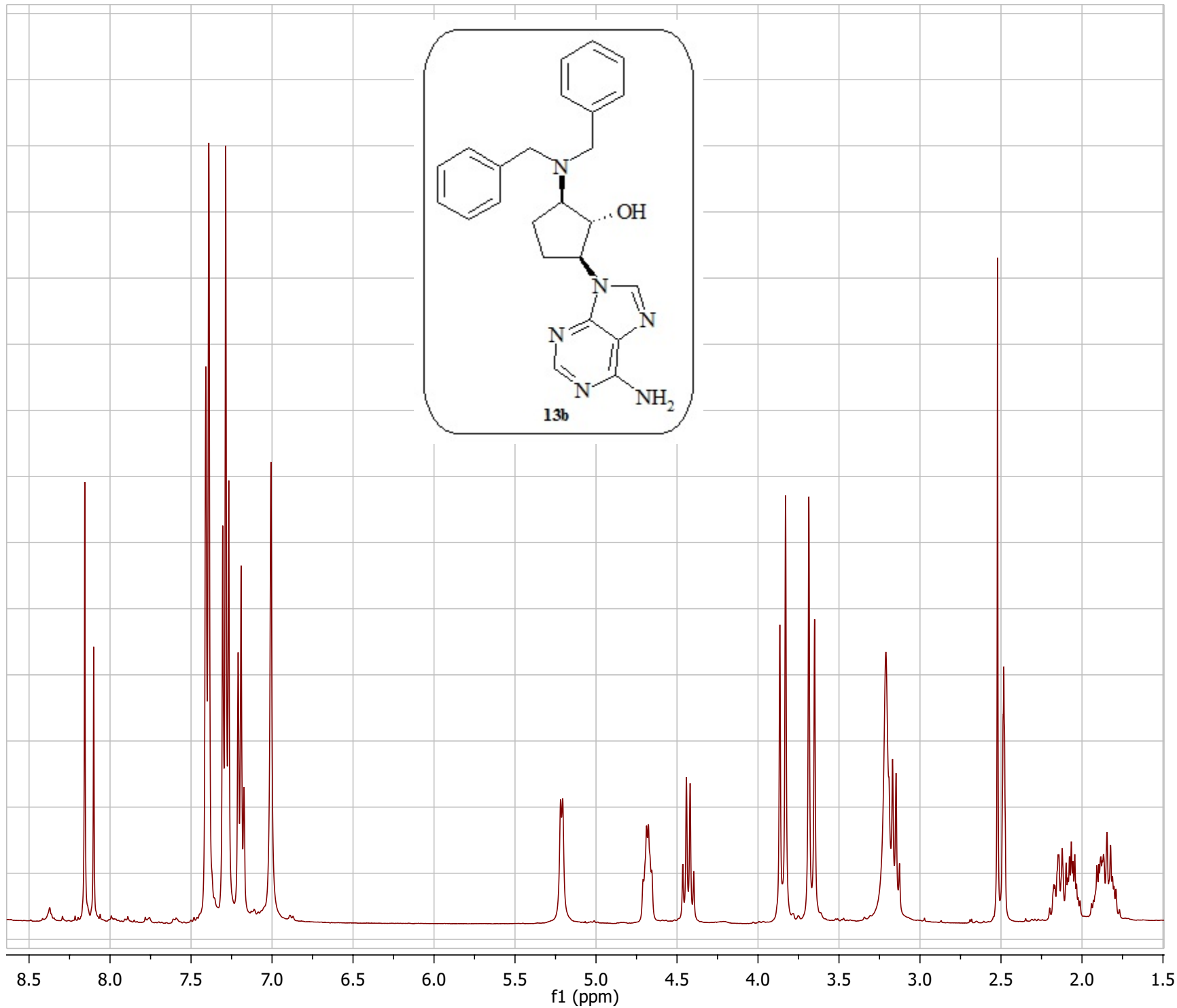
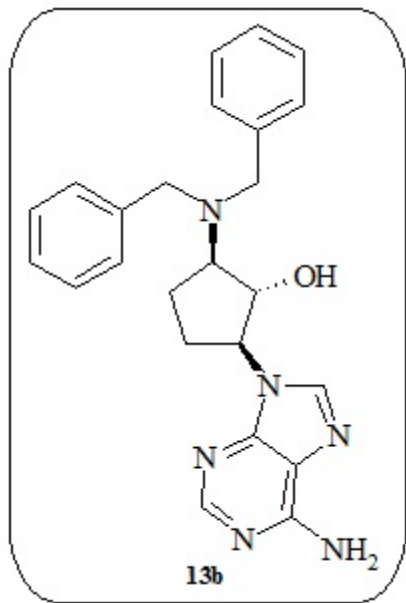


Параметр	Значение
1 Origin	Varian
2 Spectrometer	vnmrs
3 Author	chemp
4 Solvent	dms0
5 Temperature	34.0
6 Pulse Sequence	s2pul
7 Number of Scans	16
8 Receiver Gain	30
9 Relaxation Delay	1.0000
10 Pulse Width	0.0000
11 Acquisition Time	2.5559
12 Gradient Duration	0.0010
13 Spectrometer Frequency	399.70
14 Spectral Width	6410.3
15 Lowest Frequency	-784.9
16 Nucleus	1H
17 Acquired Size	16384
18 Spectral Size	32768

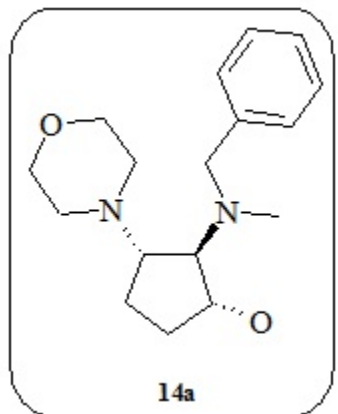


Параметр	Значение
1 Origin	Varian
2 Spectrometer	mercury
3 Author	vnmr1
4 Solvent	pyridine
5 Temperature	50.0
6 Pulse Sequence	s2pul
7 Number of Scans	16
8 Receiver Gain	16
9 Relaxation Delay	3.0000
10 Pulse Width	0.0000
11 Acquisition Time	2.4998
12 Gradient Duration	0.0020
13 Spectrometer Frequency	400.45
14 Spectral Width	2976.2
15 Lowest Frequency	790.3
16 Nucleus	¹ H
17 Acquired Size	7440
18 Spectral Size	16384

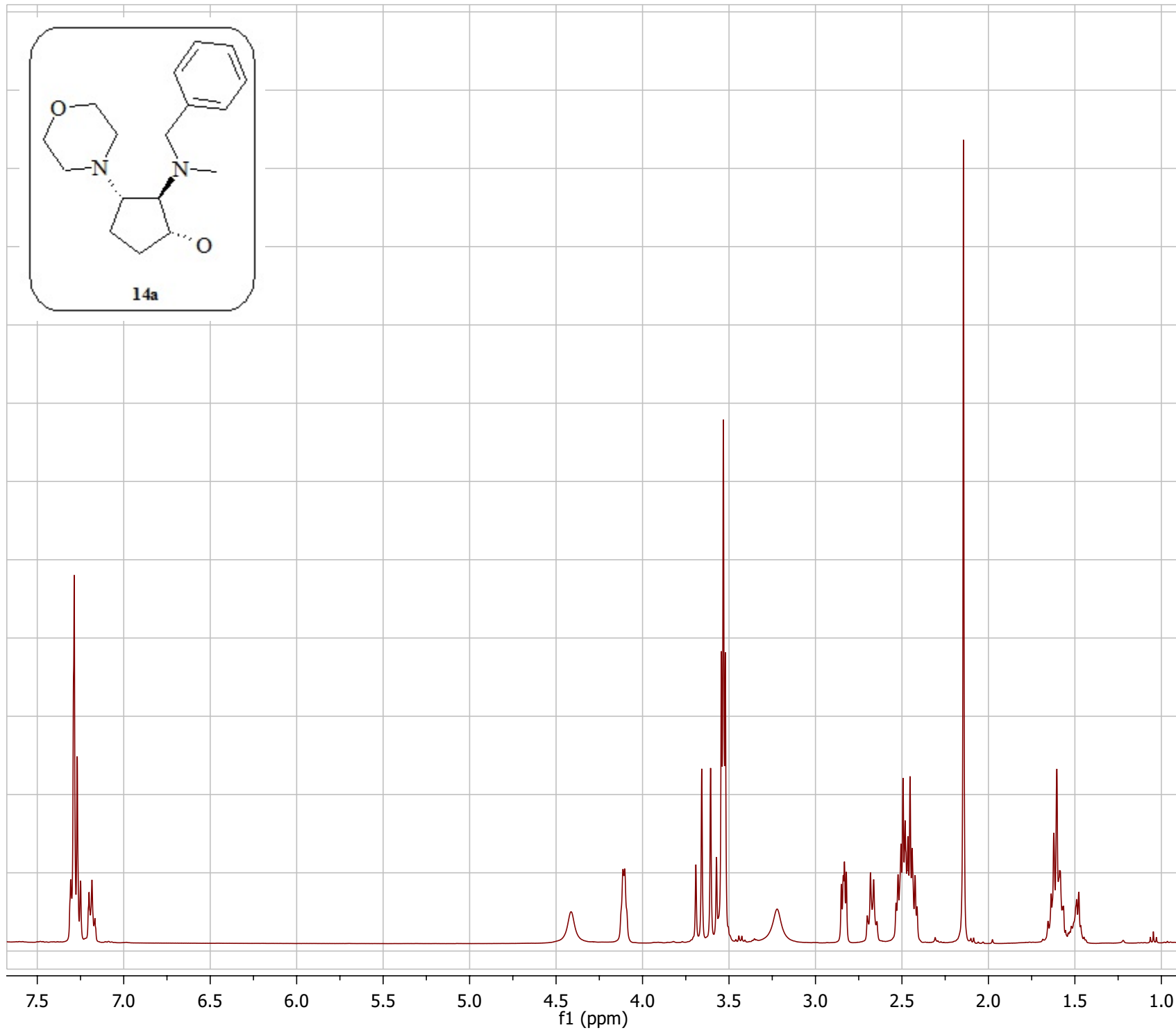


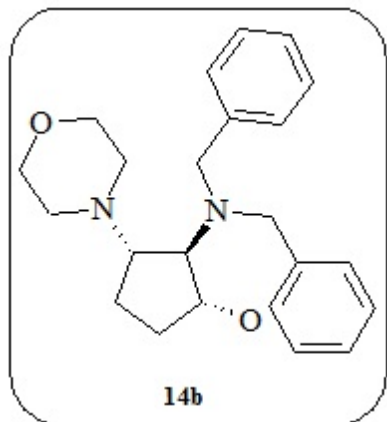


Параметр	Значение
1 Origin	Varian
2 Spectrometer	mercury
3 Author	vnmr1
4 Solvent	DMSO
5 Temperature	50.0
6 Pulse Sequence	s2pul
7 Number of Scans	16
8 Receiver Gain	8
9 Relaxation Delay	3.0000
10 Pulse Width	0.0000
11 Acquisition Time	2.5000
12 Gradient Duration	0.0020
13 Spectrometer Frequency	400.45
14 Spectral Width	2861.2
15 Lowest Frequency	598.0
16 Nucleus	¹ H
17 Acquired Size	7153
18 Spectral Size	16384

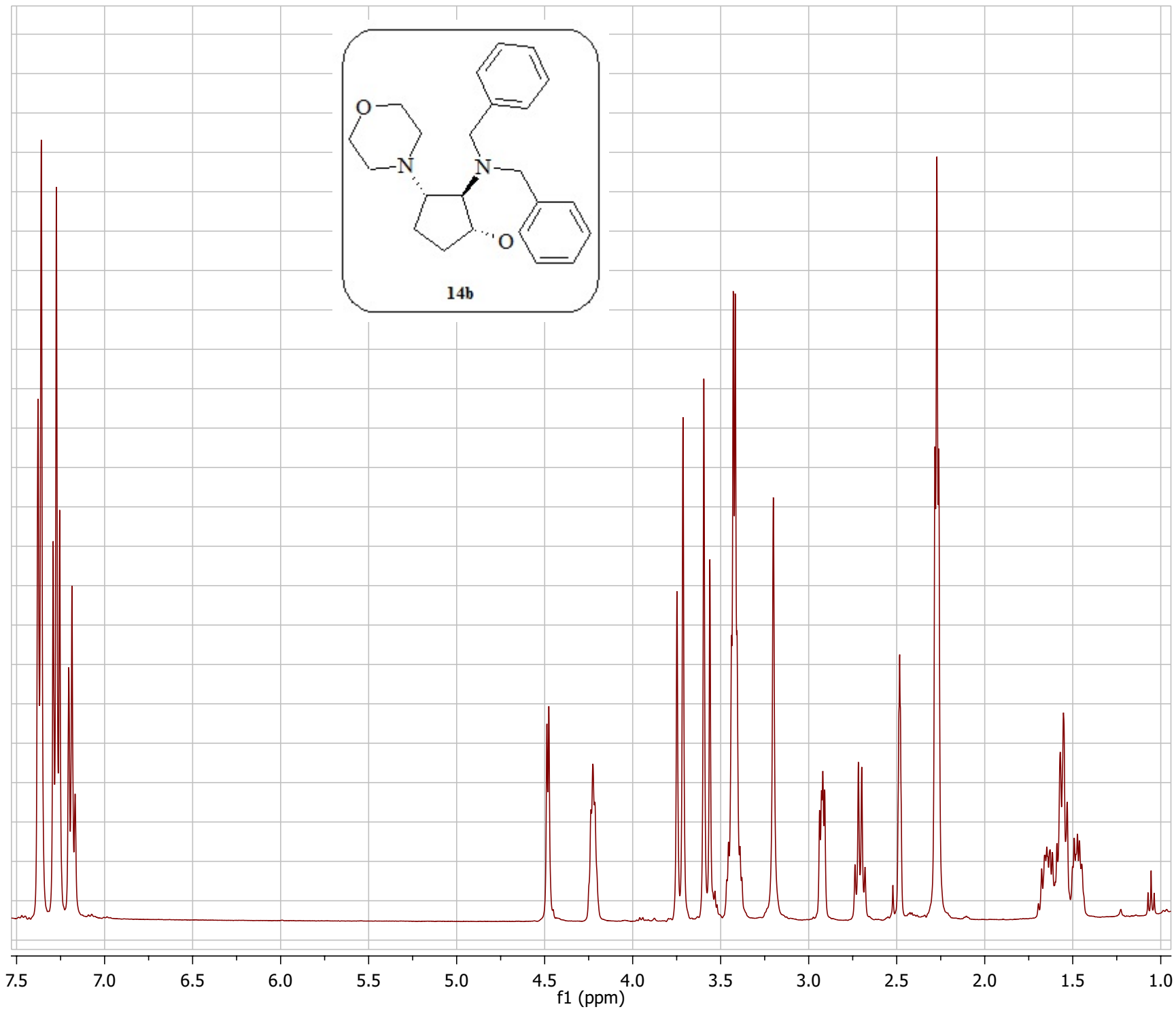


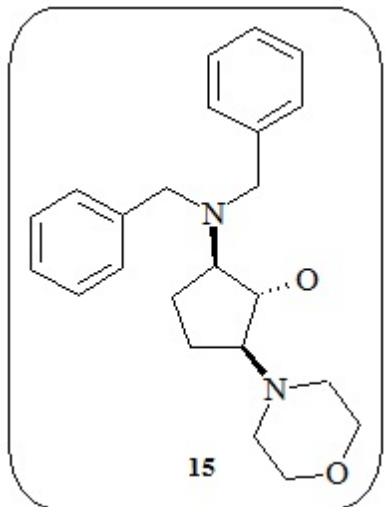
Параметр	Значение
1 Origin	Varian
2 Spectrometer	mercury
3 Author	vnmr1
4 Solvent	DMSO
5 Temperature	50.0
6 Pulse Sequence	s2pul
7 Number of Scans	16
8 Receiver Gain	6
9 Relaxation Delay	3.0000
10 Pulse Width	0.0000
11 Acquisition Time	2.5035
12 Gradient Duration	0.0020
13 Spectrometer Frequency	400.45
14 Spectral Width	2717.4
15 Lowest Frequency	356.6
16 Nucleus	¹ H
17 Acquired Size	6803
18 Spectral Size	16384





Параметр	Значение
1 Origin	Varian
2 Spectrometer	mercury
3 Author	vnmr1
4 Solvent	DMSO
5 Temperature	50.0
6 Pulse Sequence	s2pul
7 Number of Scans	4
8 Receiver Gain	8
9 Relaxation Delay	3.0000
10 Pulse Width	0.0000
11 Acquisition Time	1.3996
12 Gradient Duration	0.0020
13 Spectrometer Frequency	400.45
14 Spectral Width	2637.8
15 Lowest Frequency	377.3
16 Nucleus	¹ H
17 Acquired Size	3692
18 Spectral Size	8192





Параметр	Значение
1 Origin	Varian
2 Spectrometer	mercury
3 Author	vnmr1
4 Solvent	DMSO
5 Temperature	50.0
6 Pulse Sequence	s2pul
7 Number of Scans	4
8 Receiver Gain	8
9 Relaxation Delay	3.0000
10 Pulse Width	0.0000
11 Acquisition Time	1.4007
12 Gradient Duration	0.0020
13 Spectrometer Frequency	400.45
14 Spectral Width	2732.2
15 Lowest Frequency	286.3
16 Nucleus	¹ H
17 Acquired Size	3827
18 Spectral Size	8192

