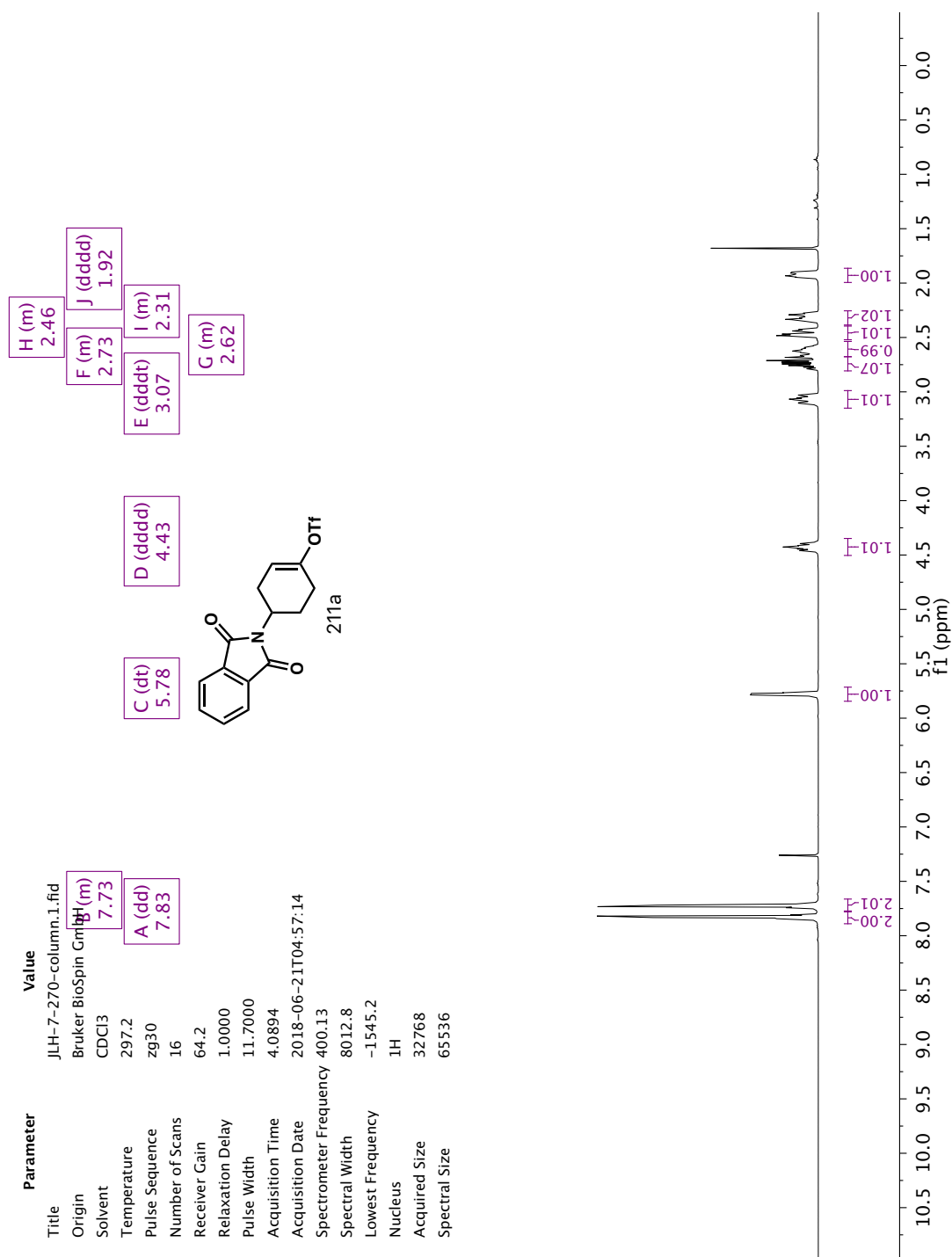
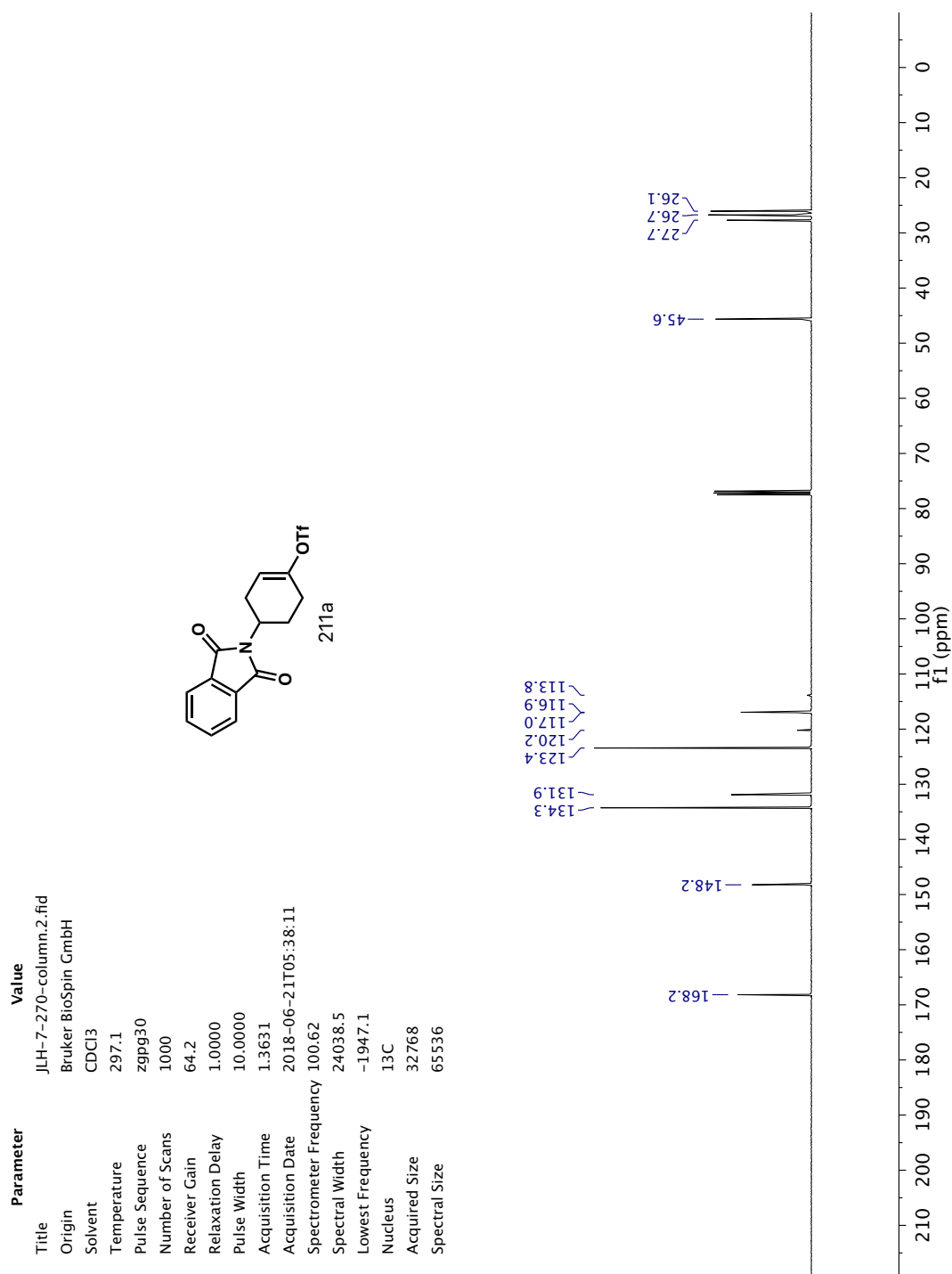


Appendix 7

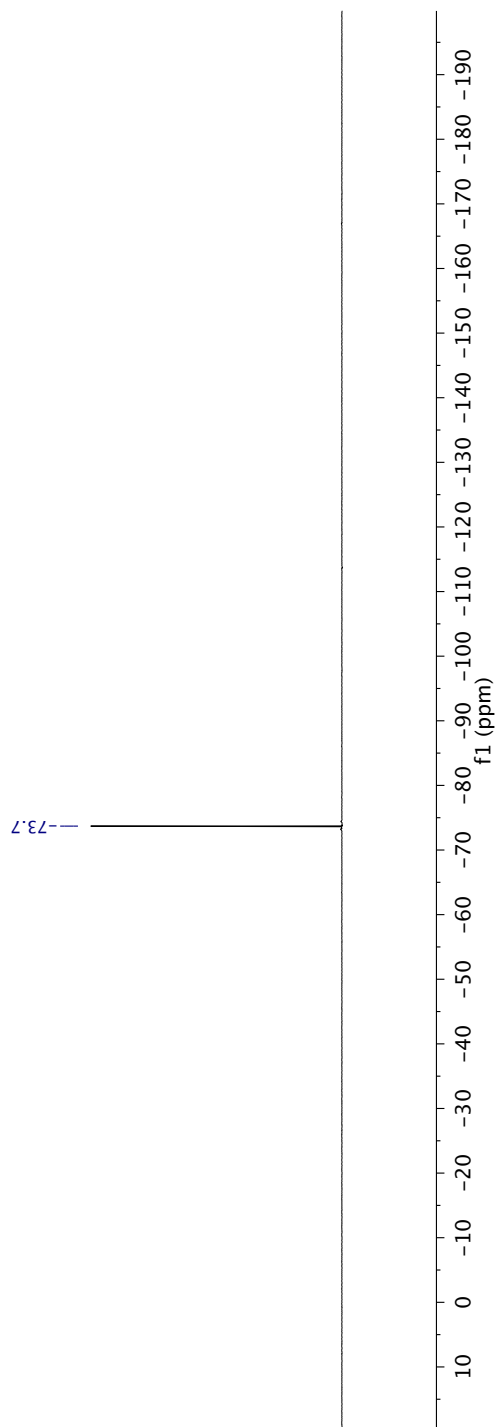
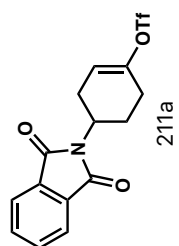
Spectra Relevant to Chapter 5:

Ni-Catalyzed Halogenation of Alkenyl Triflates

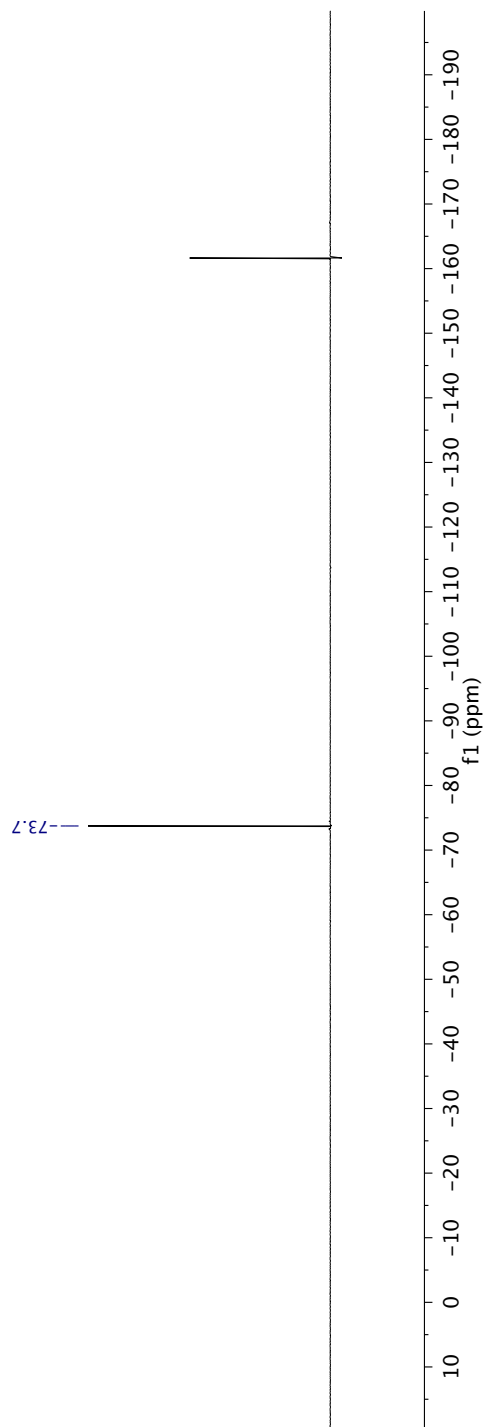
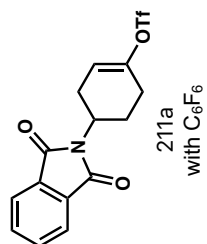


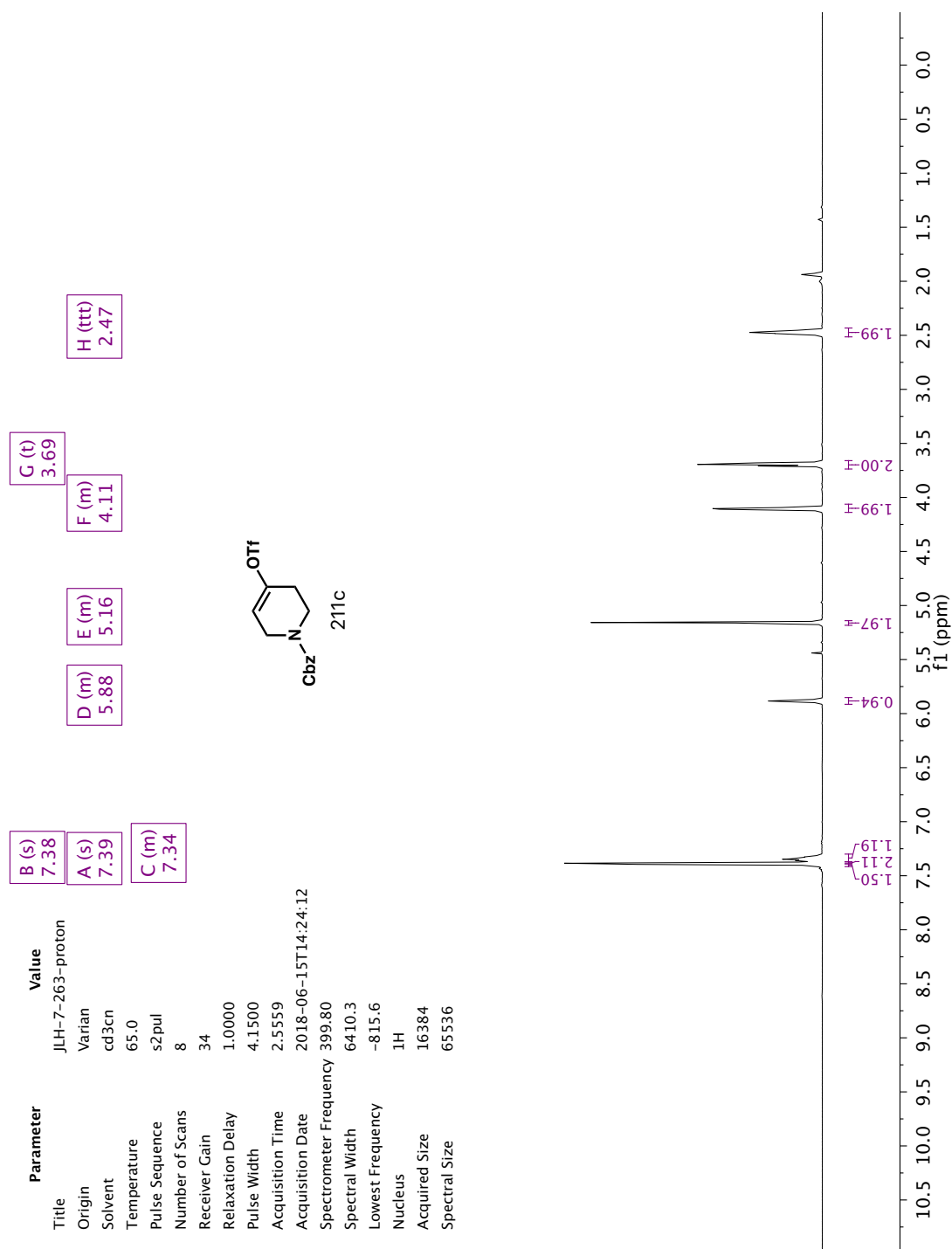


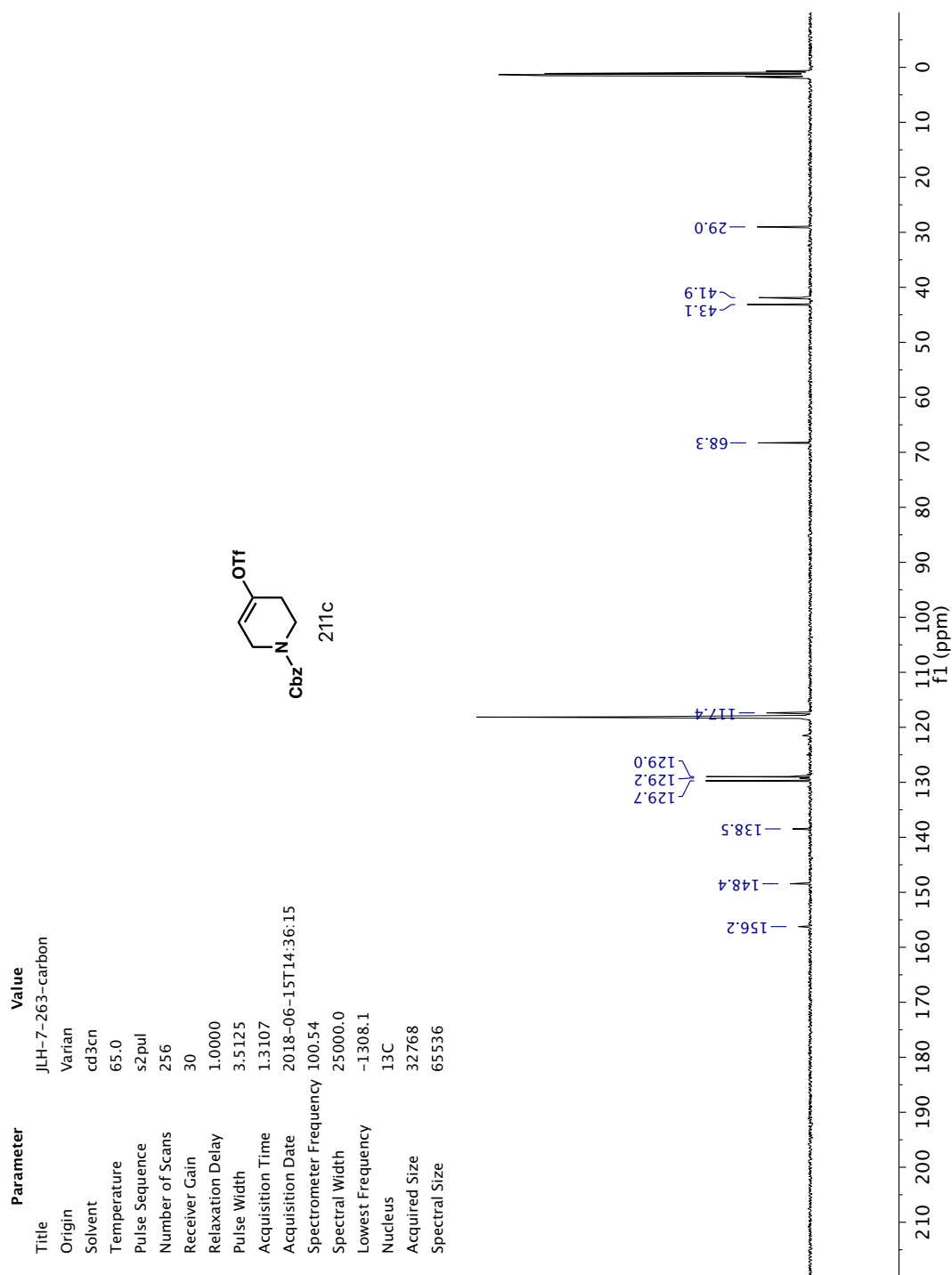
Parameter	Value
Title	JLH-7-270-F
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	16
Receiver Gain	30
Relaxation Delay	1.0000
Pulse Width	6.3333
Acquisition Time	0.9856
Acquisition Date	2018-06-29T12:21:53
Spectrometer Frequency	282.34
Spectral Width	64935.1
Lowest Frequency	-56430.0
Nucleus	19F
Acquired Size	64000
Spectral Size	131072

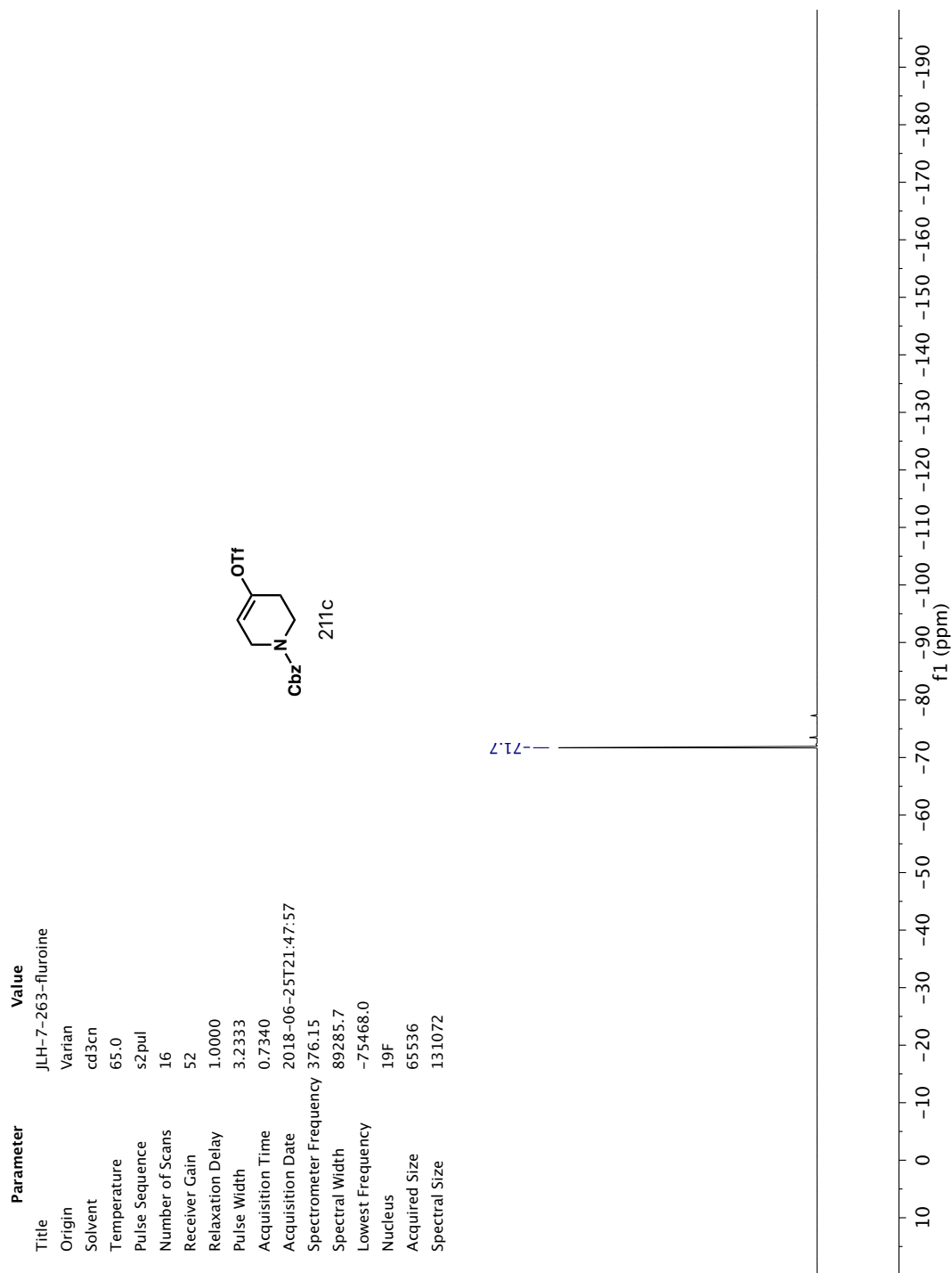


Parameter	Value
Title	JLH-7-270-F-C6F6
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	16
Receiver Gain	30
Relaxation Delay	1.0000
Pulse Width	6.3333
Acquisition Time	0.9856
Acquisition Date	2018-06-29T12:25:28
Spectrometer Frequency	282.34
Spectral Width	64935.1
Lowest Frequency	-56436.5
Nucleus	¹⁹ F
Acquired Size	64000
Spectral Size	131072

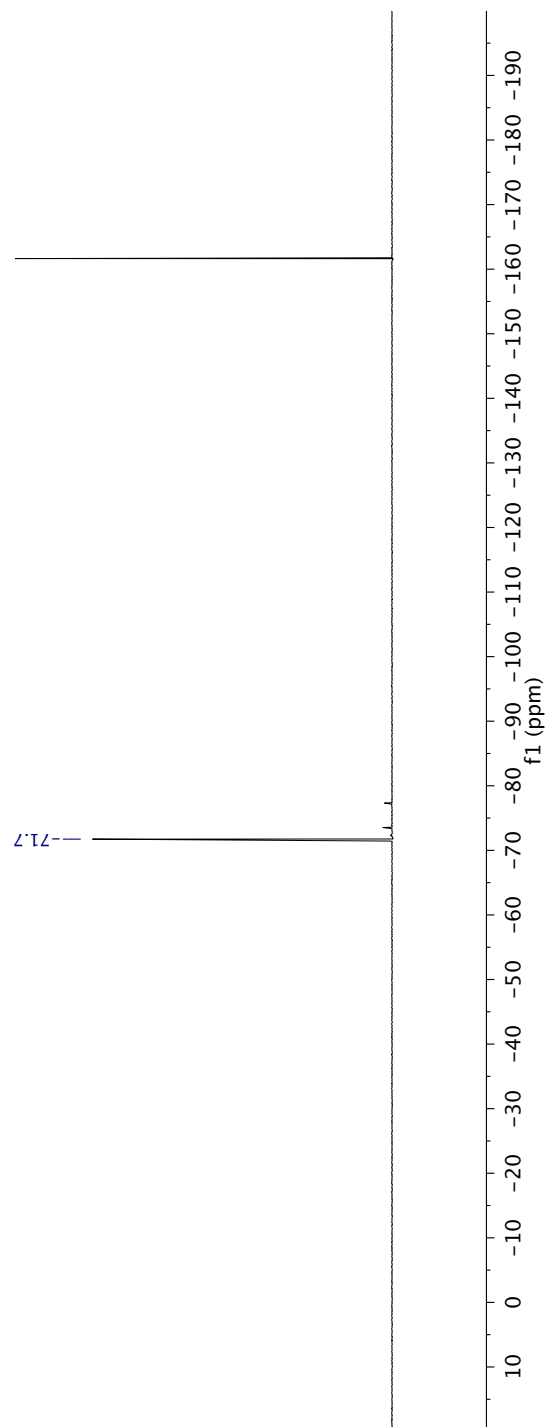
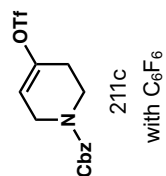


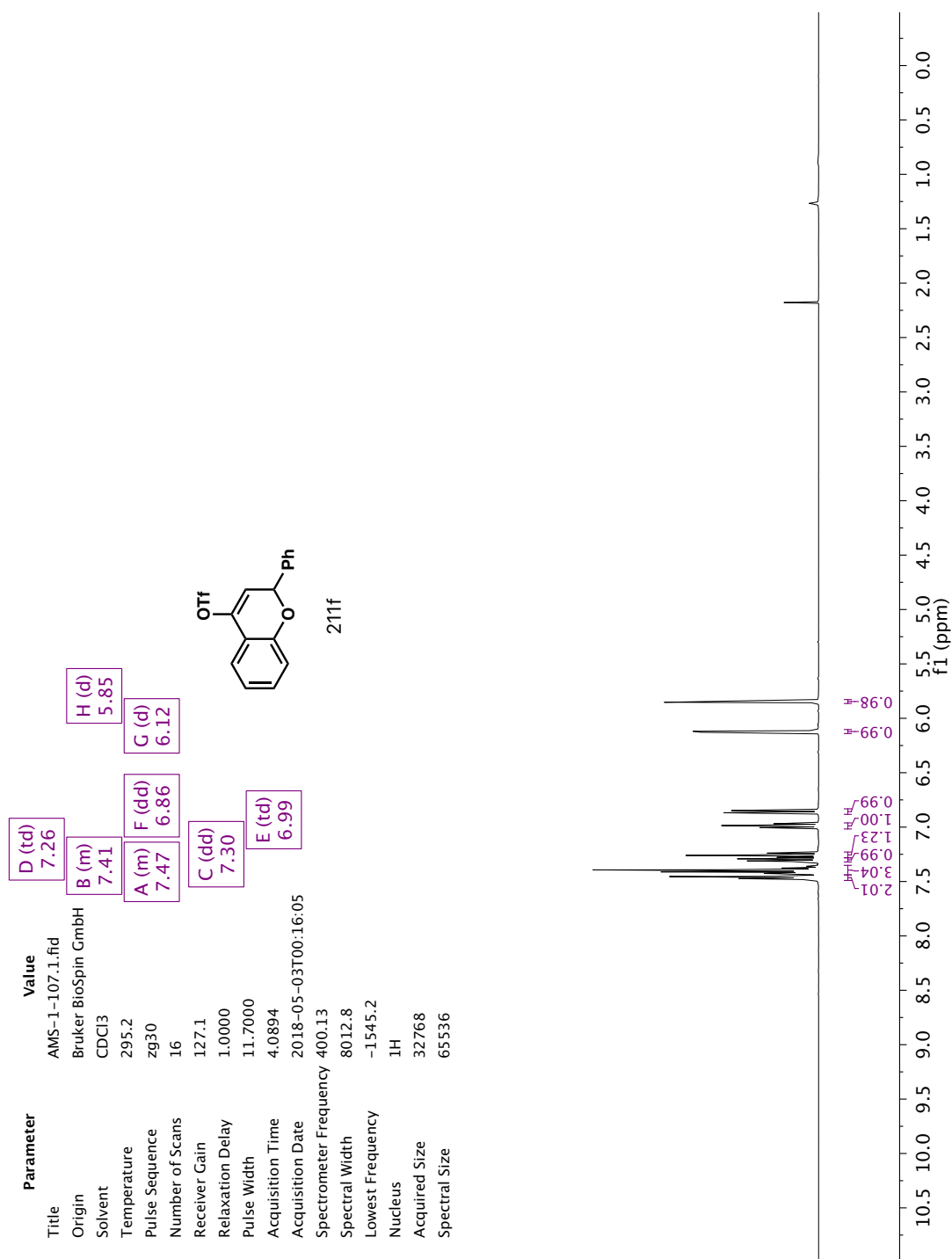




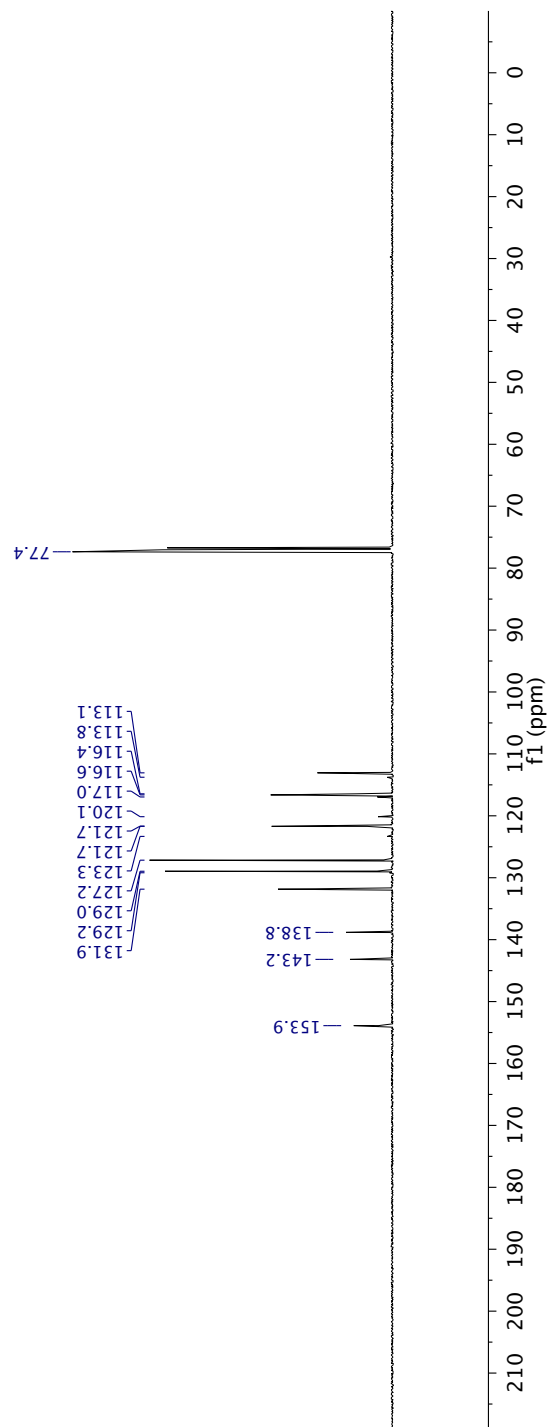
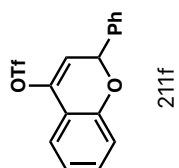


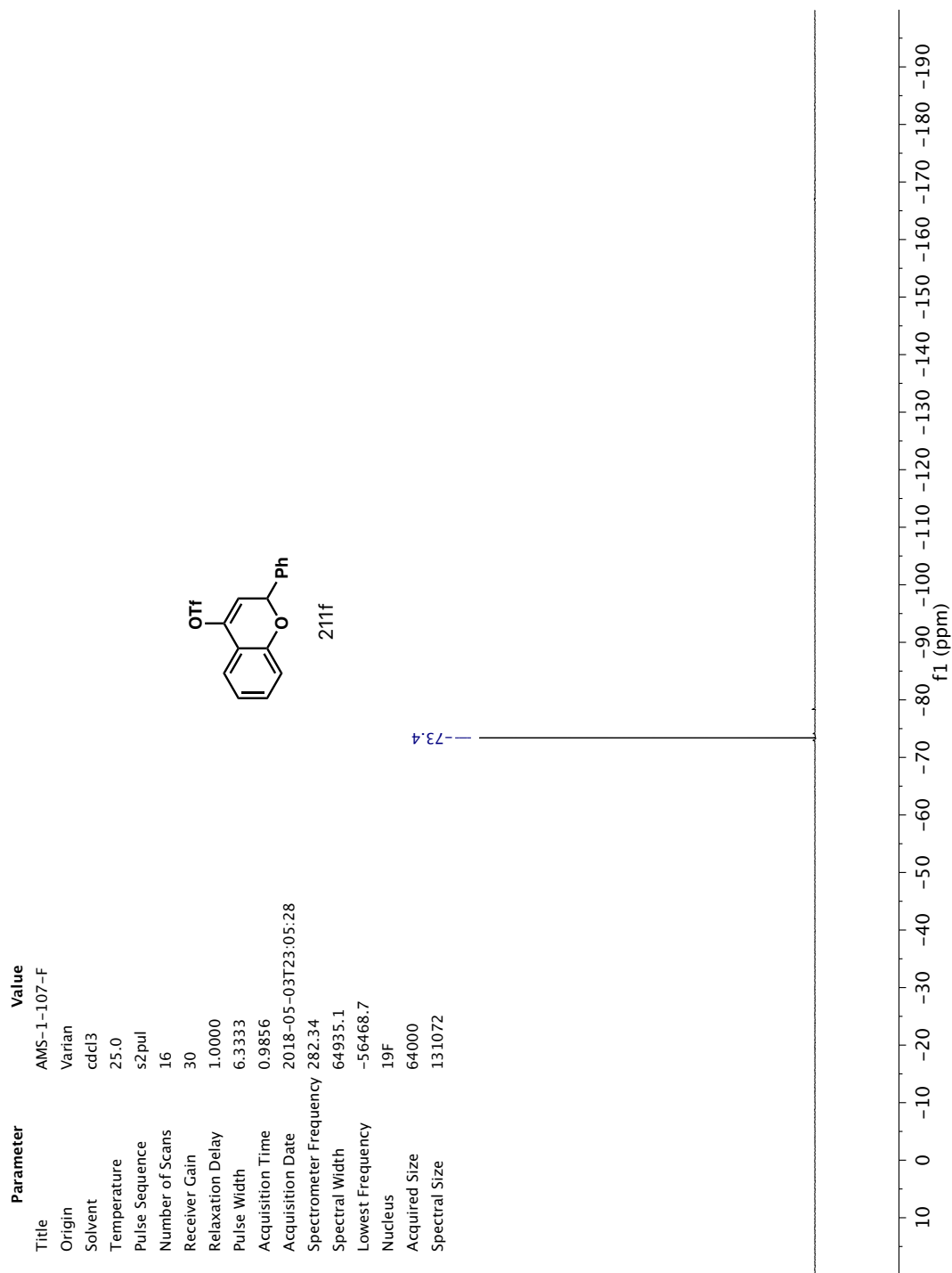
Parameter	Value
Title	JLH-7-263-fluorine-C6F6
Origin	Varian
Solvent	cd3cn
Temperature	65.0
Pulse Sequence	s2pul
Number of Scans	16
Receiver Gain	0
Relaxation Delay	1.0000
Pulse Width	3.2333
Acquisition Time	0.7340
Acquisition Date	2018-06-25T22:02:46
Spectrometer Frequency	376.15
Spectral Width	89285.7
Lowest Frequency	-75469.1
Nucleus	¹⁹ F
Acquired Size	65536
Spectral Size	131072



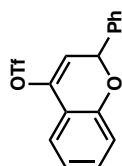


Parameter	Value
Title	AMS-1-107.2.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl ₃
Temperature	295.1
Pulse Sequence	zgpg30
Number of Scans	512
Receiver Gain	55.5
Relaxation Delay	1.0000
Pulse Width	10.0000
Acquisition Time	1.3631
Acquisition Date	2018-05-03T00:37:19
Spectrometer Frequency	100.62
Spectral Width	24038.5
Lowest Frequency	-1958.4
Nucleus	¹³ C
Acquired Size	32768
Spectral Size	65536





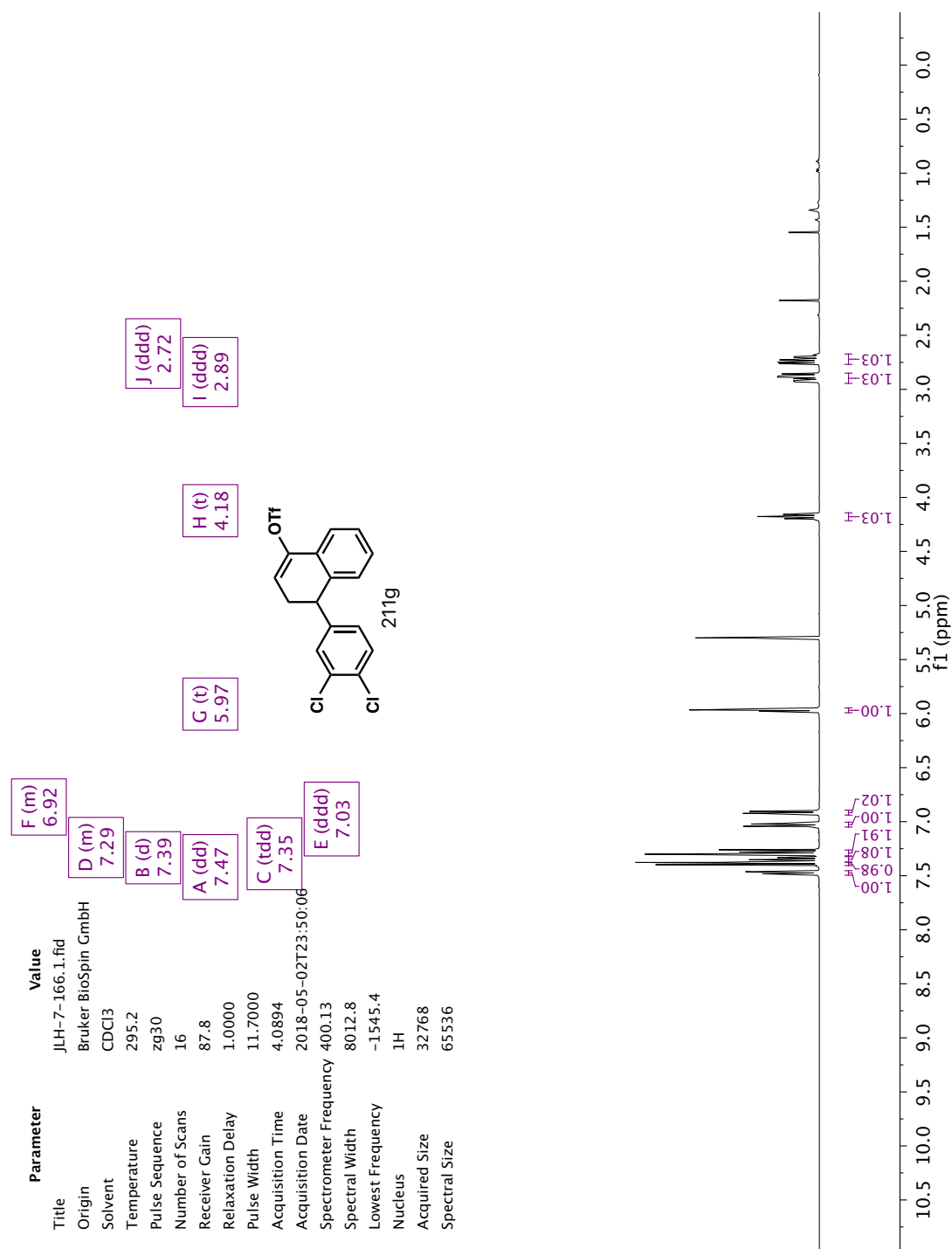
Parameter	Value
Title	AMS-1-107-F-C6F6
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	16
Receiver Gain	30
Relaxation Delay	1.0000
Pulse Width	6.3333
Acquisition Time	0.9856
Acquisition Date	2018-05-23T22:51:00
Spectrometer Frequency	282.34
Spectral Width	64935.1
Lowest Frequency	-56468.7
Nucleus	¹⁹ F
Acquired Size	64000
Spectral Size	131072

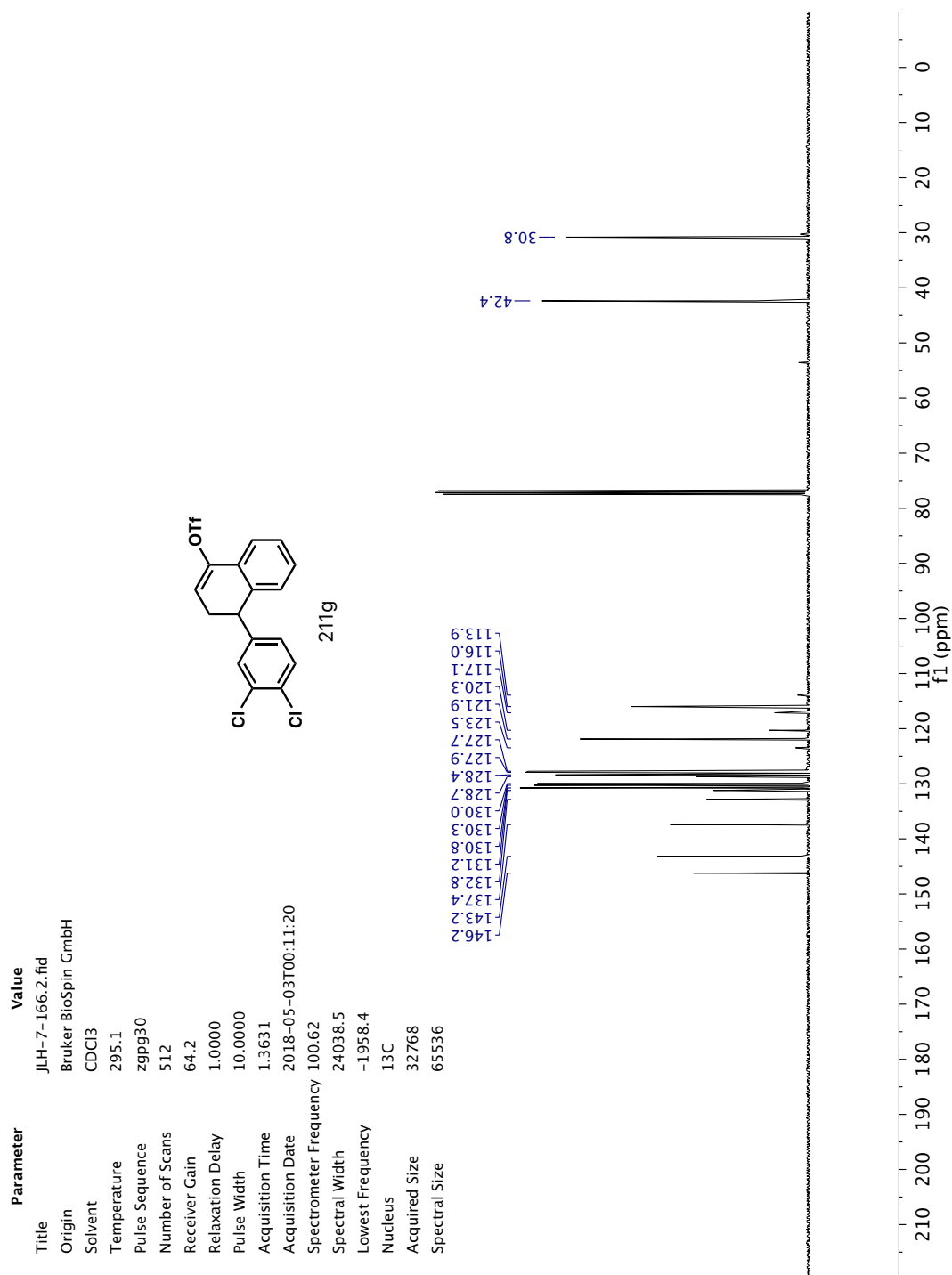


211f
with C₆F₆

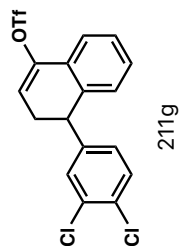
— -73.4

10 0 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100 -110 -120 -130 -140 -150 -160 -170 -180 -190
f1 (ppm)





Parameter	Value
Title	JLH-7-166-F
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	16
Receiver Gain	30
Relaxation Delay	1.0000
Pulse Width	6.3333
Acquisition Time	0.9856
Acquisition Date	2018-05-03T22:42:22
Spectrometer Frequency	282.34
Spectral Width	64935.1
Lowest Frequency	-56468.7
Nucleus	19F
Acquired Size	64000
Spectral Size	131072

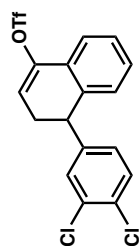


211g

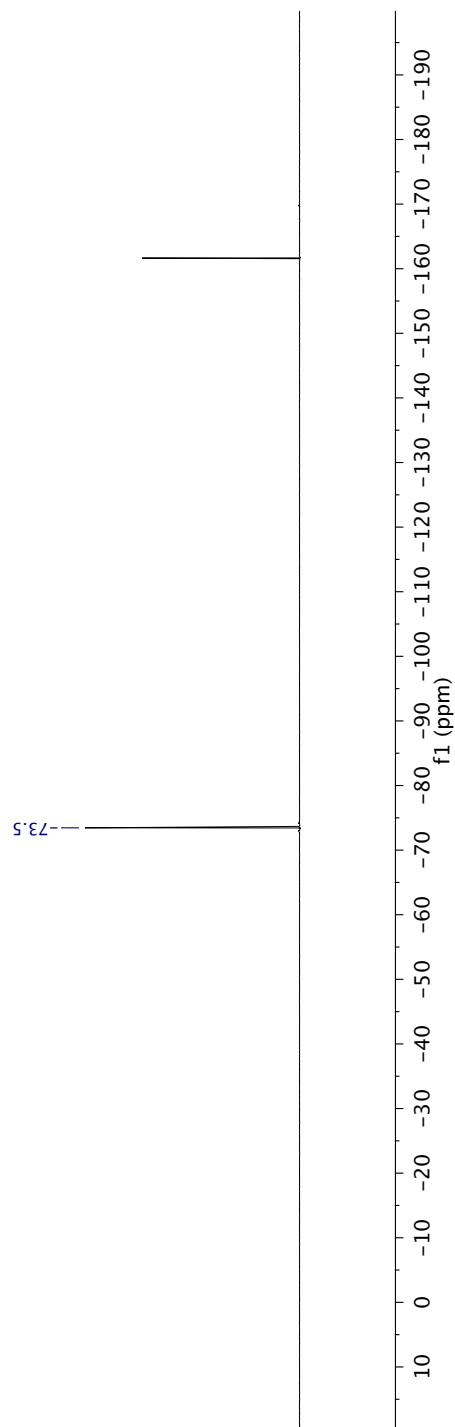
-73.5

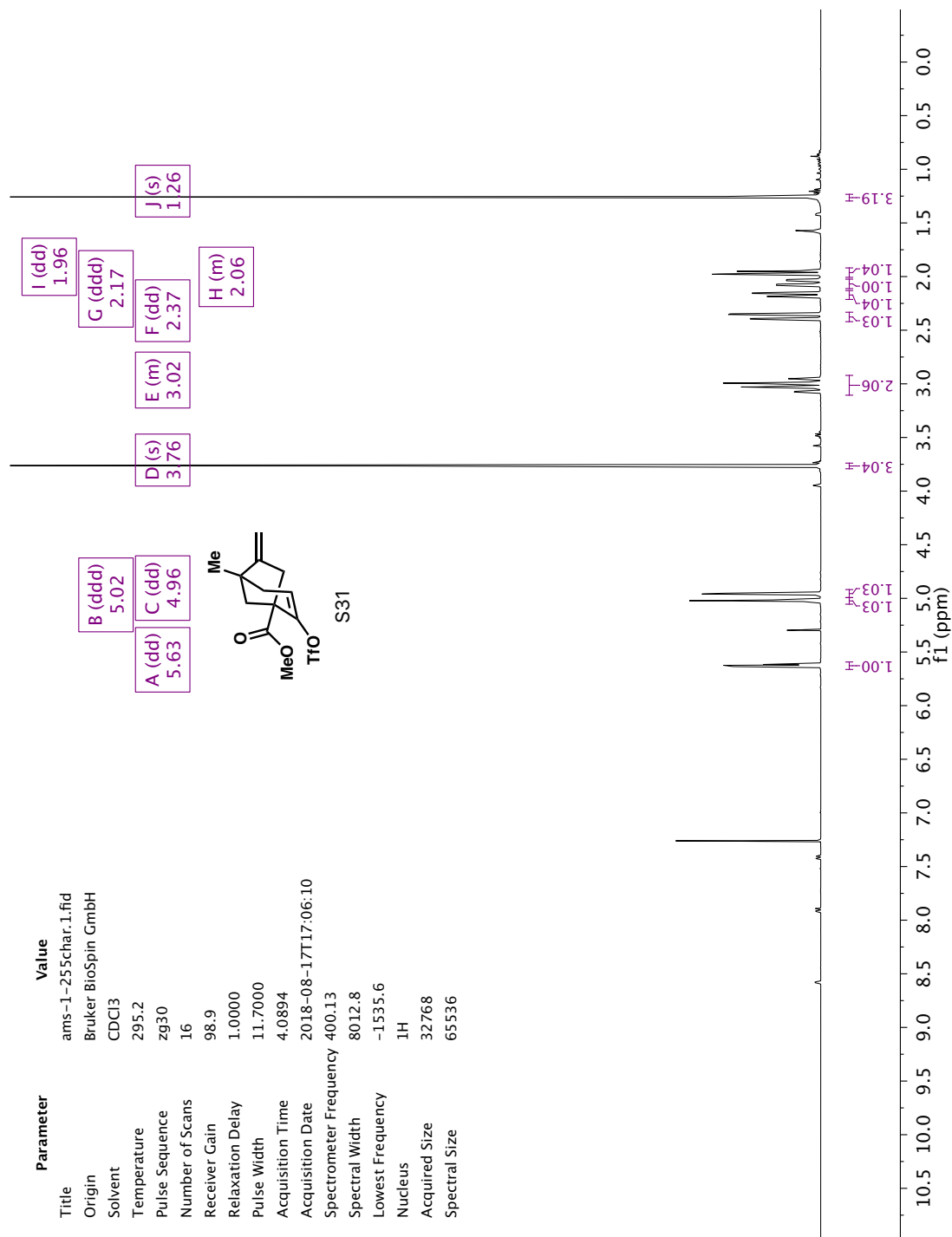
10 0 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100 -110 -120 -130 -140 -150 -160 -170 -180 -190
f1 (ppm)

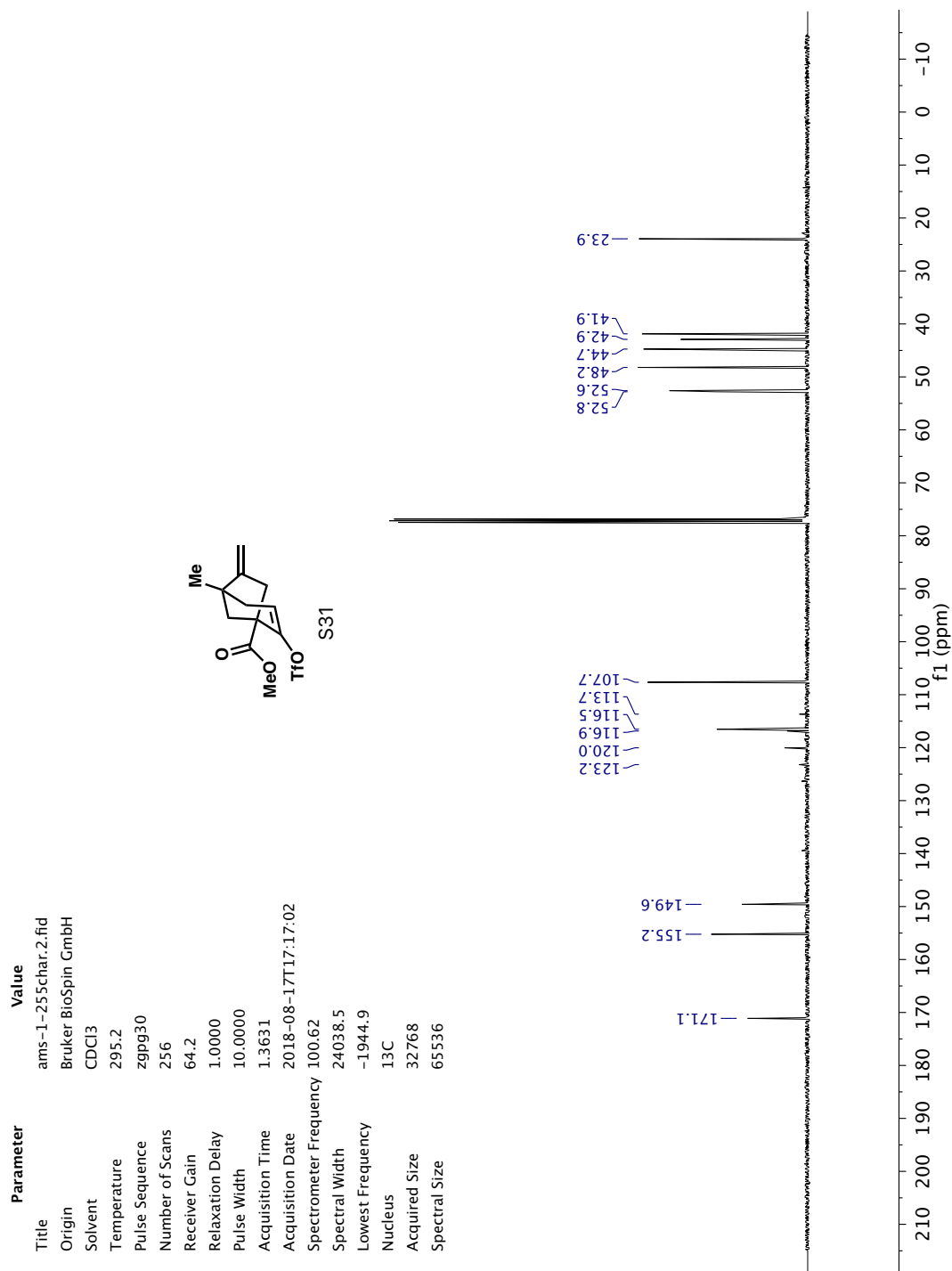
Parameter	Value
Title	JLH-7-166-F-C6F6
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	16
Receiver Gain	30
Relaxation Delay	1.0000
Pulse Width	6.3333
Acquisition Time	0.9856
Acquisition Date	2018-05-23T22:38:19
Spectrometer Frequency	282.34
Spectral Width	64935.1
Lowest Frequency	-56468.7
Nucleus	19F
Acquired Size	64000
Spectral Size	131072



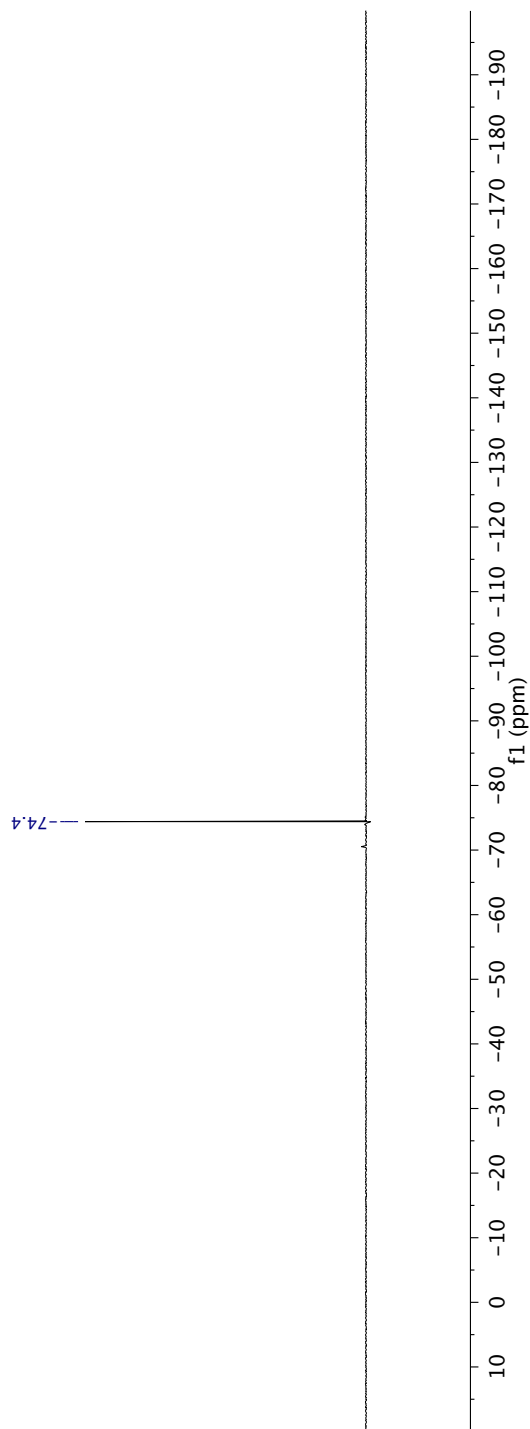
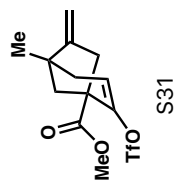
211g
with C₆F₆

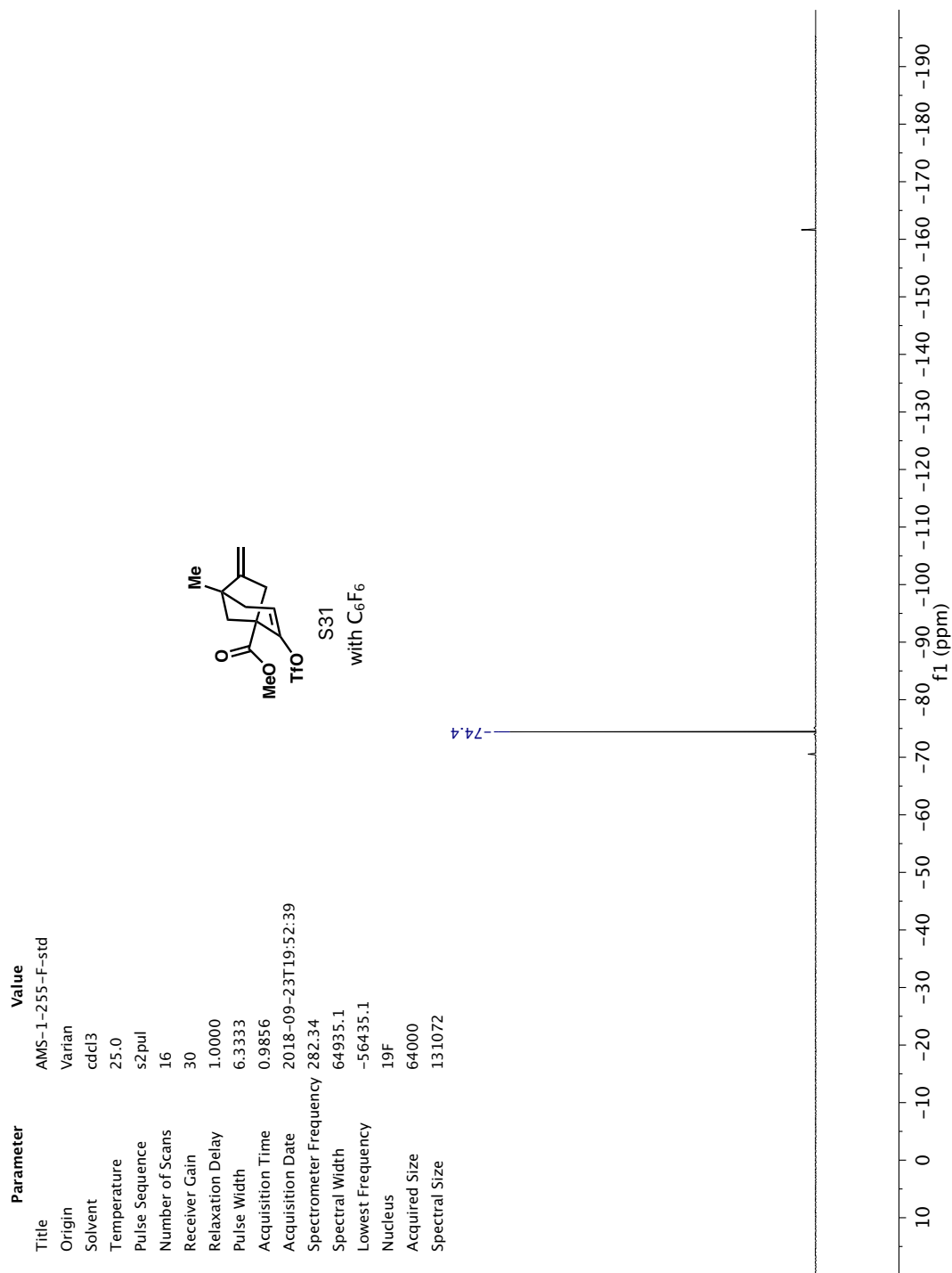


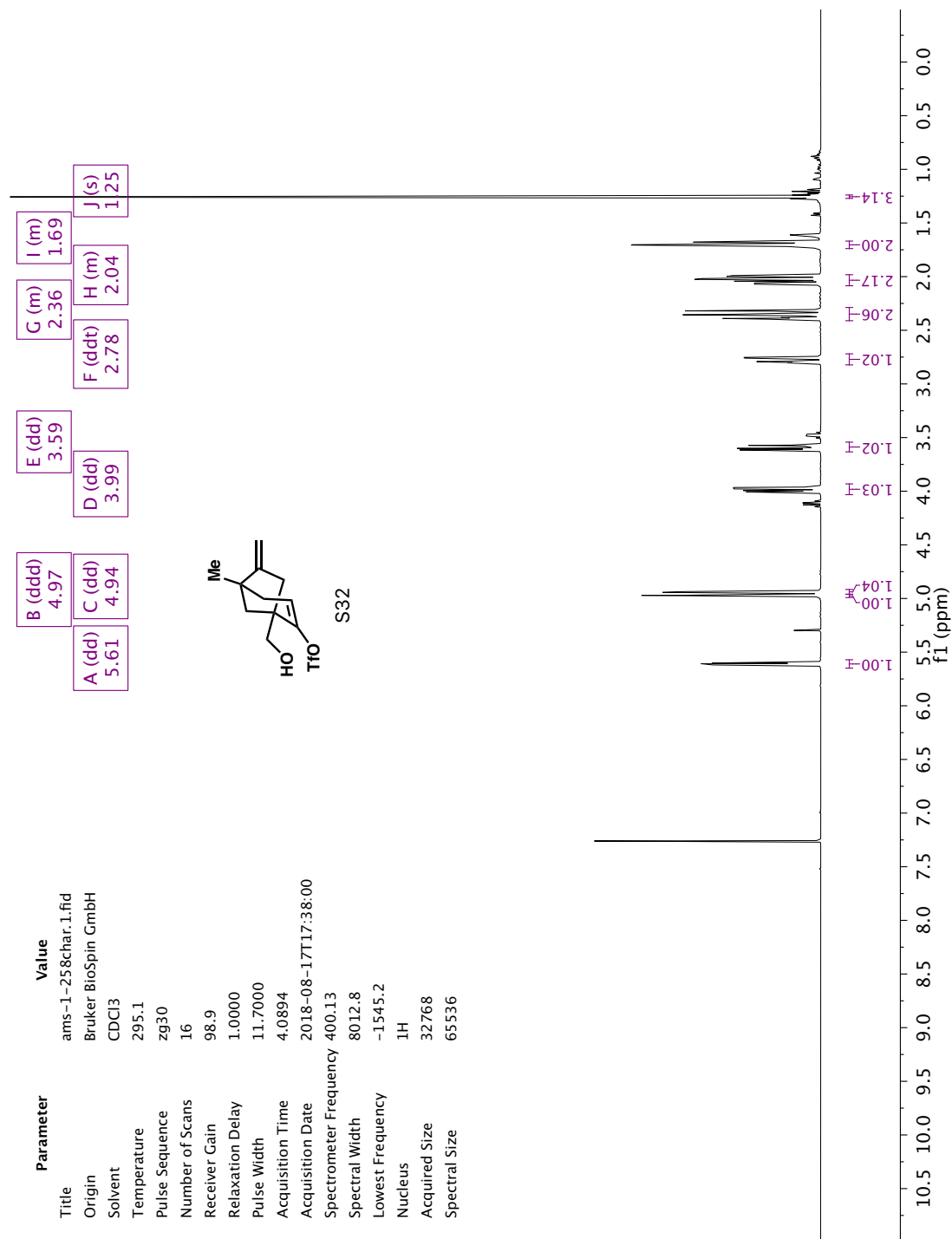




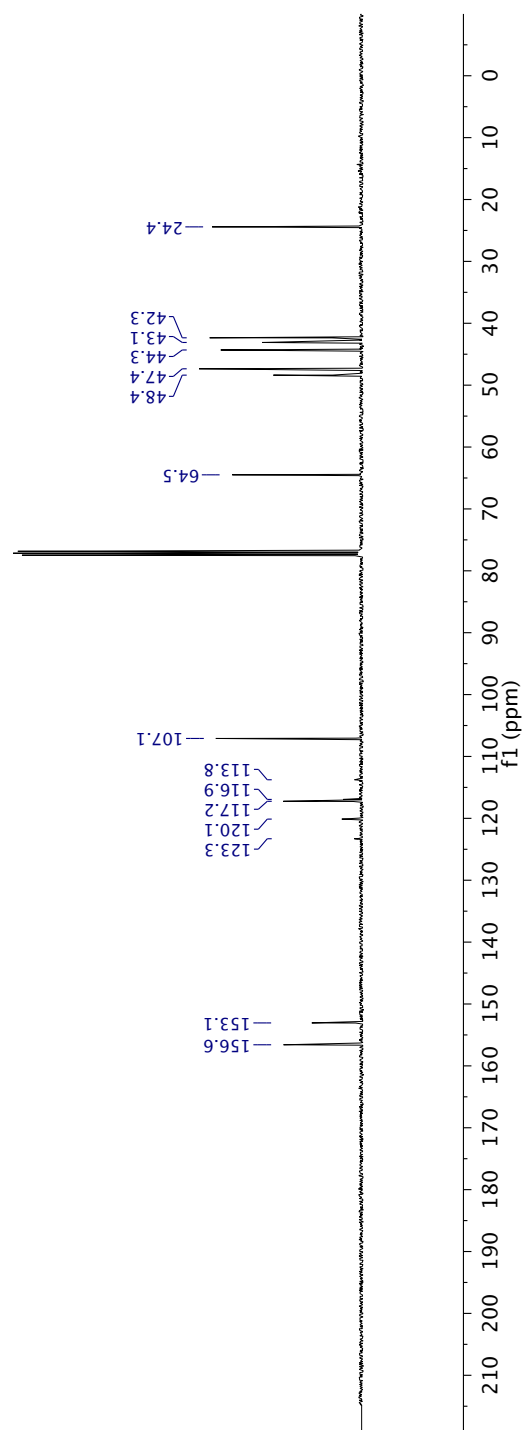
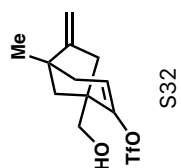
Parameter	Value
Title	AMS-1-255-F
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	16
Receiver Gain	30
Relaxation Delay	1.0000
Pulse Width	6.3333
Acquisition Time	0.9856
Acquisition Date	2018-08-14T01:17:36
Spectrometer Frequency	282.34
Spectral Width	64935.1
Lowest Frequency	-56435.4
Nucleus	19F
Acquired Size	64000
Spectral Size	131072



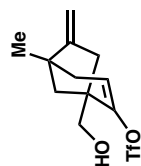




Parameter	Value
Title	ams-1-258char.2.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl ₃
Temperature	295.1
Pulse Sequence	zgpg30
Number of Scans	256
Receiver Gain	55.5
Relaxation Delay	1.0000
Pulse Width	10.0000
Acquisition Time	1.3631
Acquisition Date	2018-08-17T17:48:52
Spectrometer Frequency	100.62
Spectral Width	24038.5
Lowest Frequency	-1945.1
Nucleus	¹³ C
Acquired Size	32768
Spectral Size	65536



Parameter	Value
Title	AMS-1-258-F
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	16
Receiver Gain	30
Relaxation Delay	1.0000
Pulse Width	6.3333
Acquisition Time	0.9856
Acquisition Date	2018-08-19T23:06:01
Spectrometer Frequency	282.34
Spectral Width	64935.1
Lowest Frequency	-56444.7
Nucleus	19F
Acquired Size	64000
Spectral Size	131072

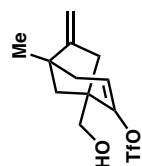


S32

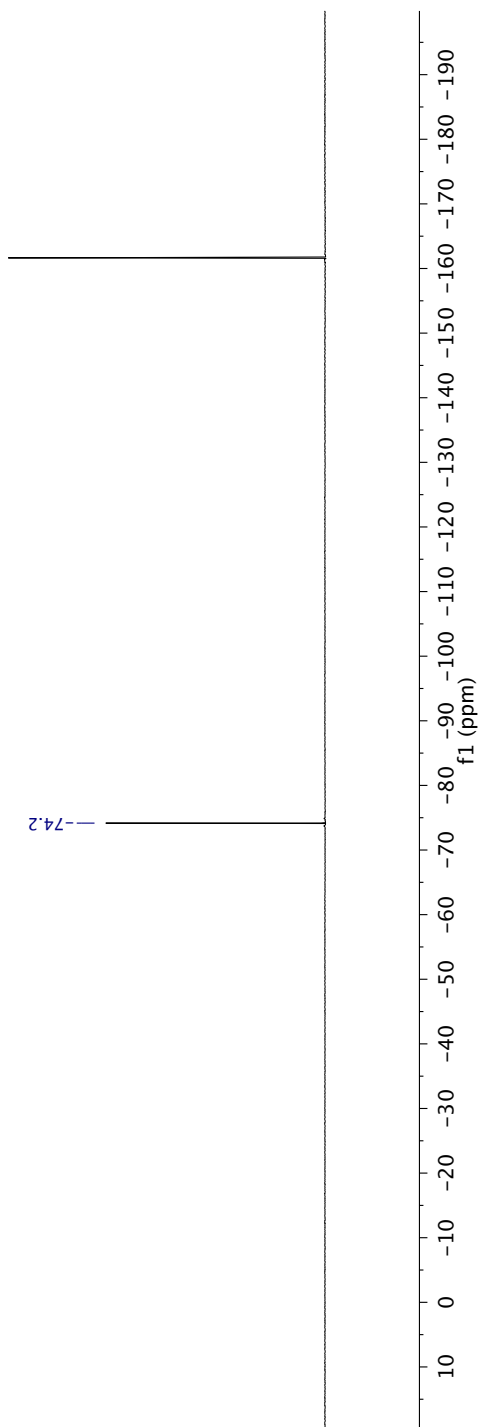
-74.2

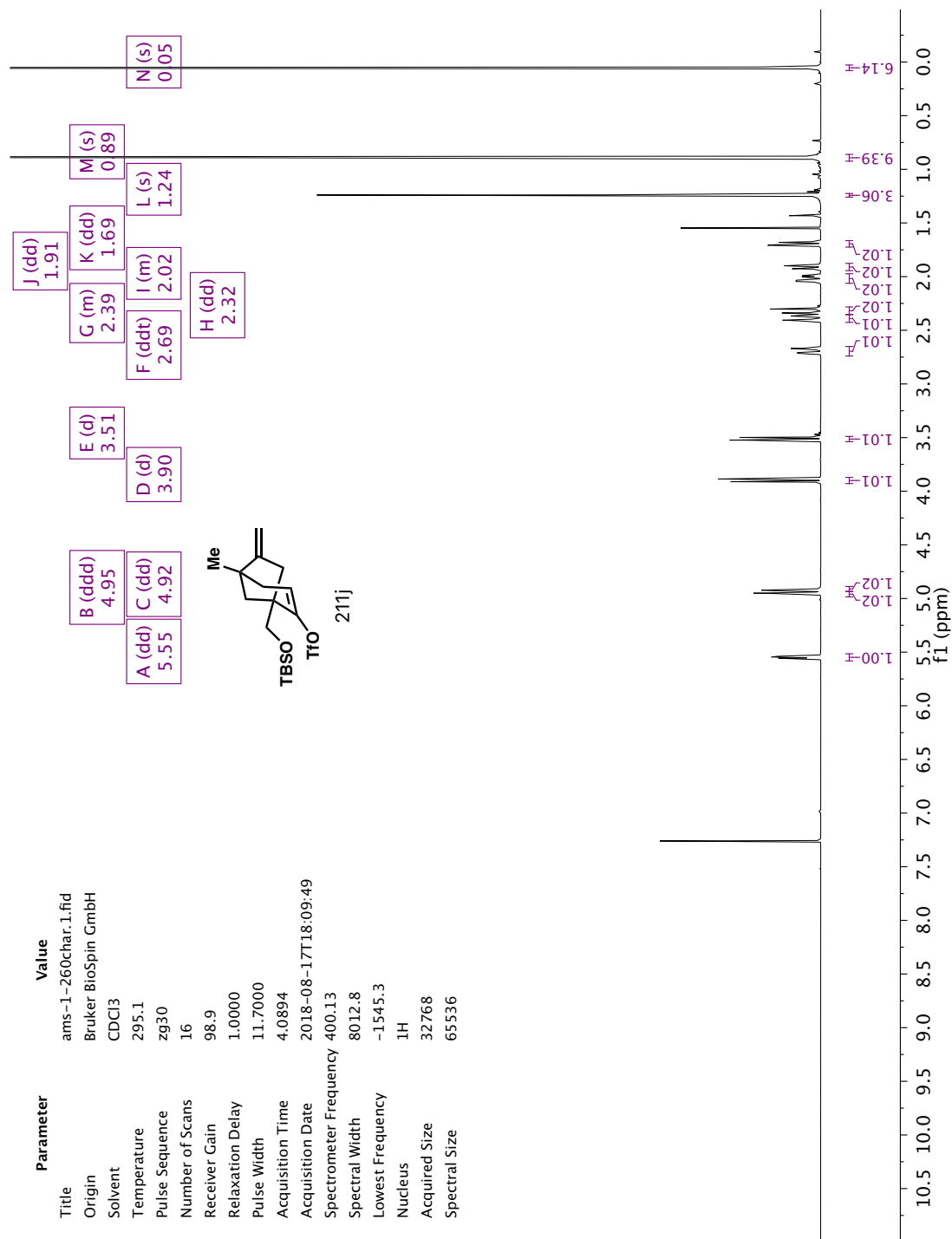
10 0 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100 -110 -120 -130 -140 -150 -160 -170 -180 -190
f1 (ppm)

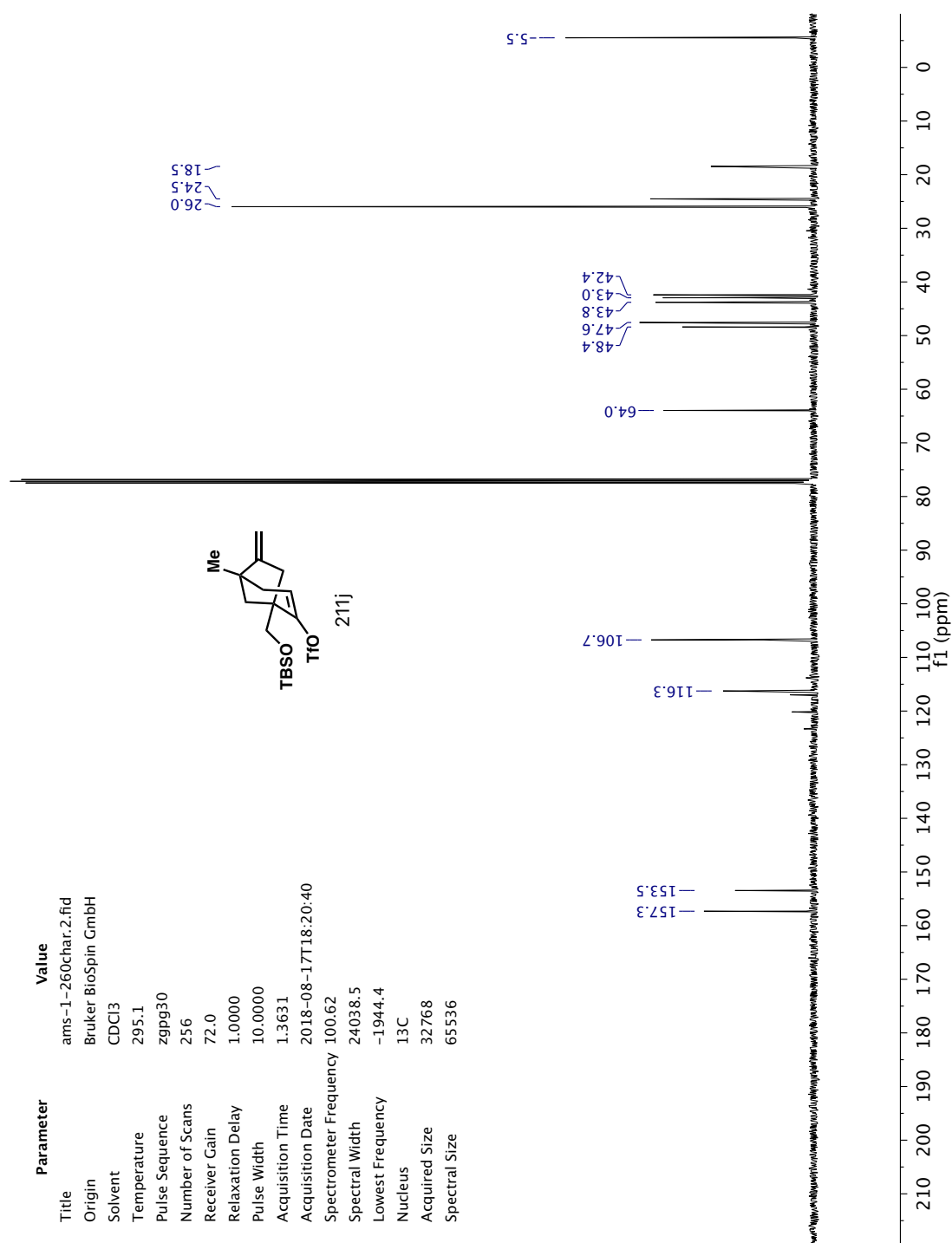
Parameter	Value
Title	AMS-1-258-F-C6F6
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	16
Receiver Gain	30
Relaxation Delay	1.0000
Pulse Width	6.3333
Acquisition Time	0.9856
Acquisition Date	2018-10-01T14:38:13
Spectrometer Frequency	282.34
Spectral Width	64935.1
Lowest Frequency	-56430.6
Nucleus	19F
Acquired Size	64000
Spectral Size	131072



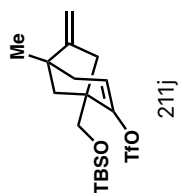
S32
with C₆F₆







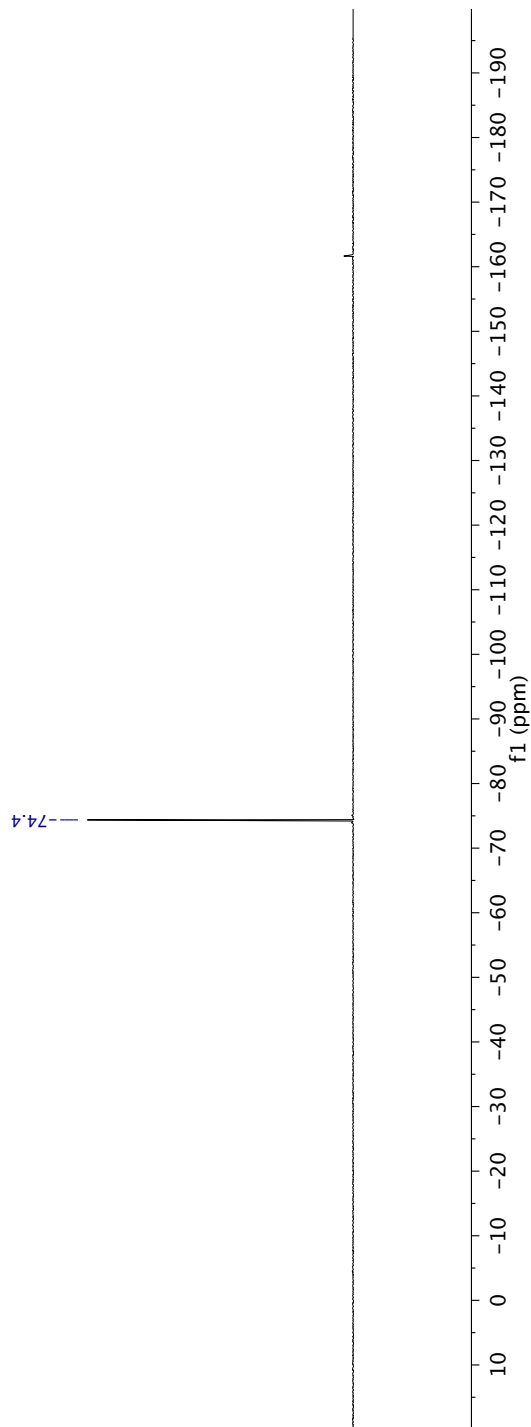
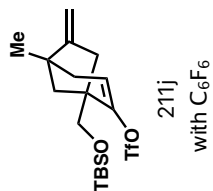
Parameter	Value
Title	AMS-1-260-F
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	16
Receiver Gain	30
Relaxation Delay	1.0000
Pulse Width	6.3333
Acquisition Time	0.9856
Acquisition Date	2018-08-19T23:14:03
Spectrometer Frequency	282.34
Spectral Width	64935.1
Lowest Frequency	-56449.5
Nucleus	19F
Acquired Size	64000
Spectral Size	131072

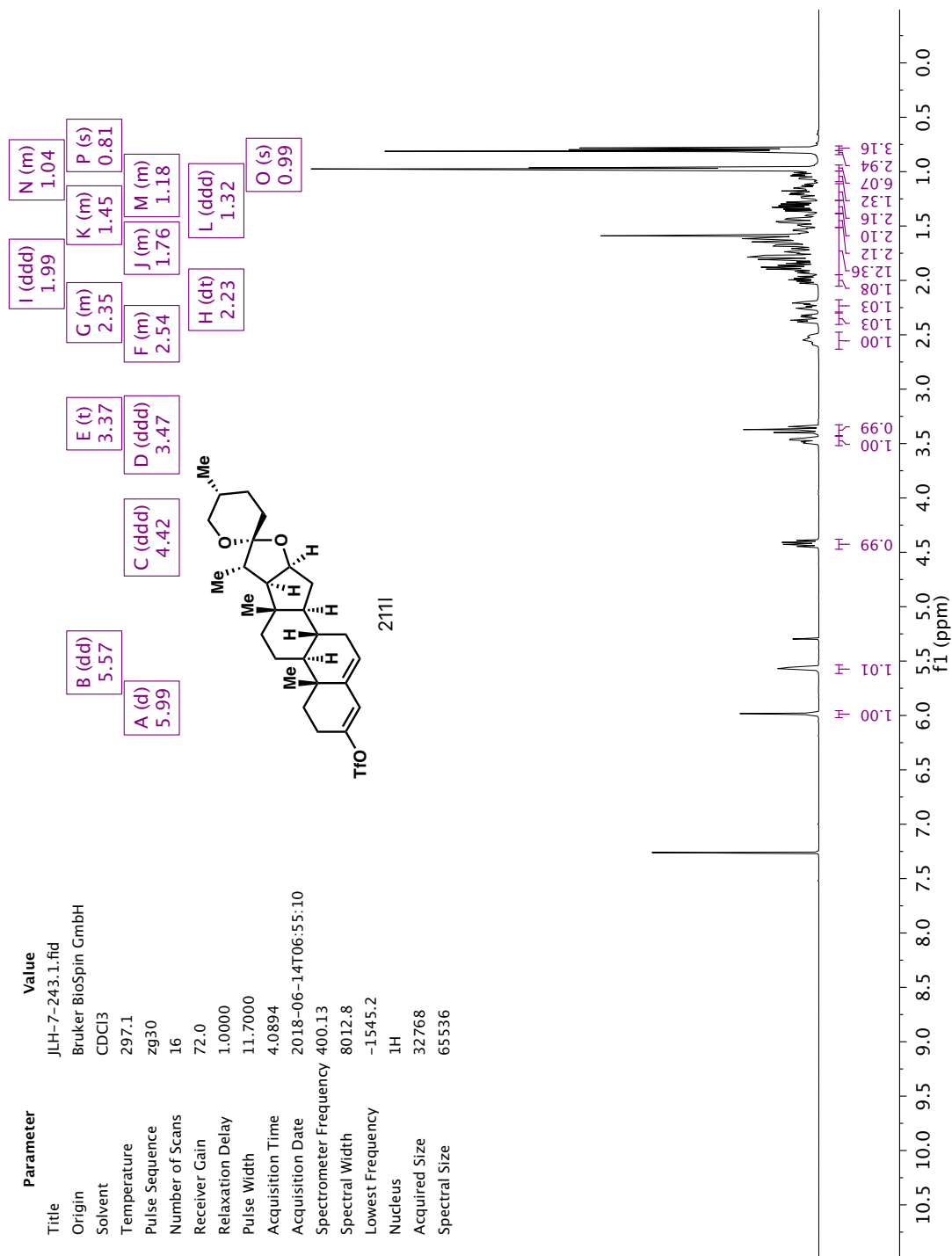


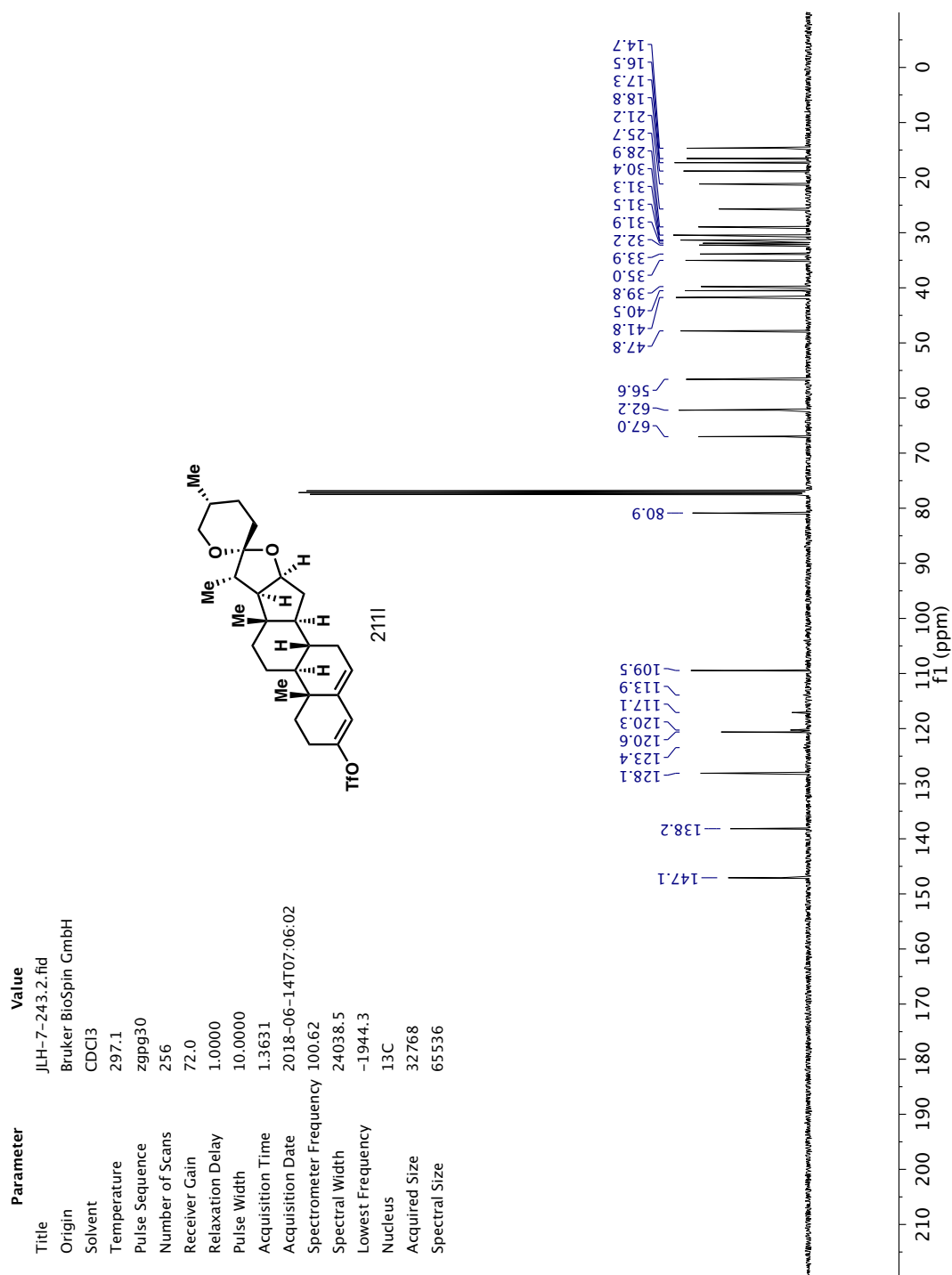
-74.4

10 0 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100 -110 -120 -130 -140 -150 -160 -170 -180 -190
f1 (ppm)

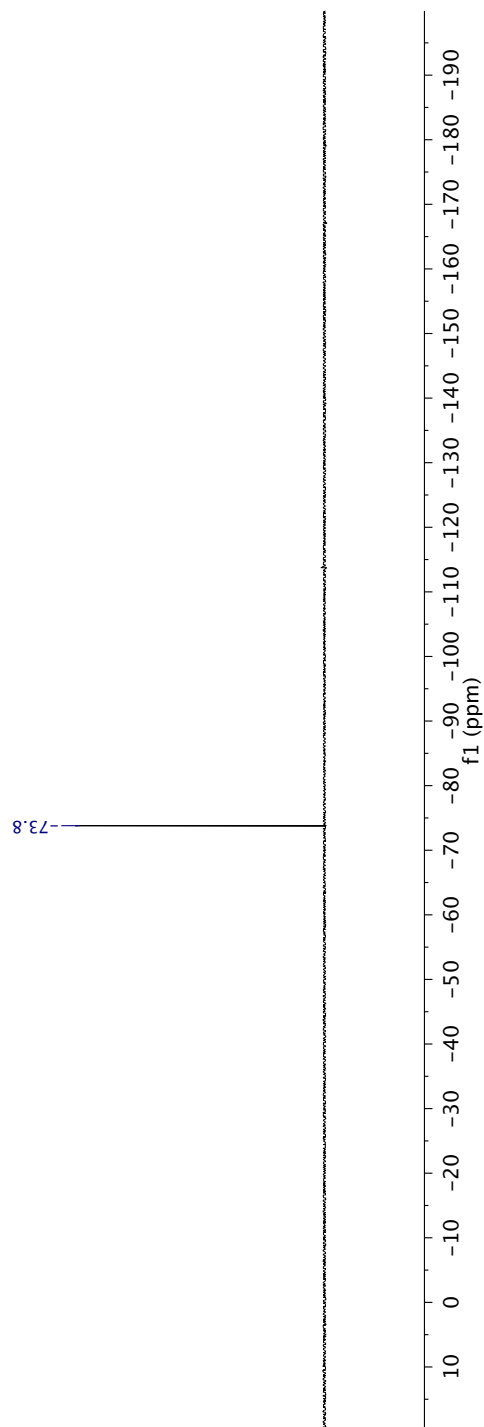
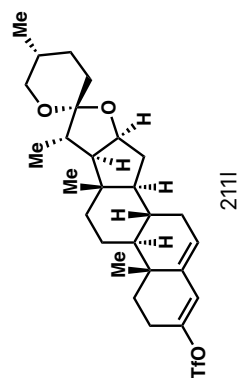
Parameter	Value
Title	AMS-1-260-F-std
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	16
Receiver Gain	30
Relaxation Delay	1.0000
Pulse Width	6.3333
Acquisition Time	0.9856
Acquisition Date	2018-09-23T20:01:28
Spectrometer Frequency	282.34
Spectral Width	64935.1
Lowest Frequency	-56442.2
Nucleus	19F
Acquired Size	64000
Spectral Size	131072

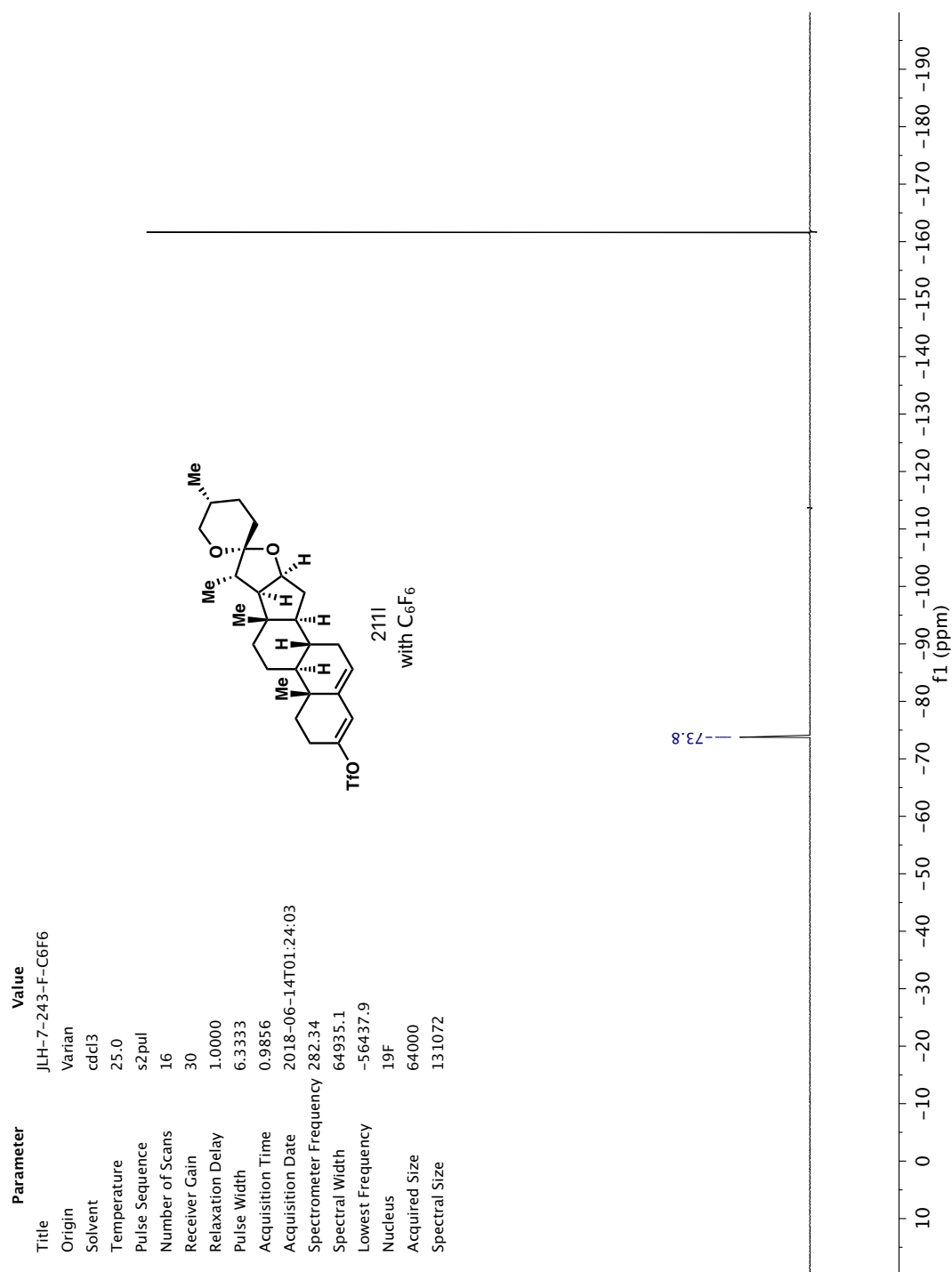


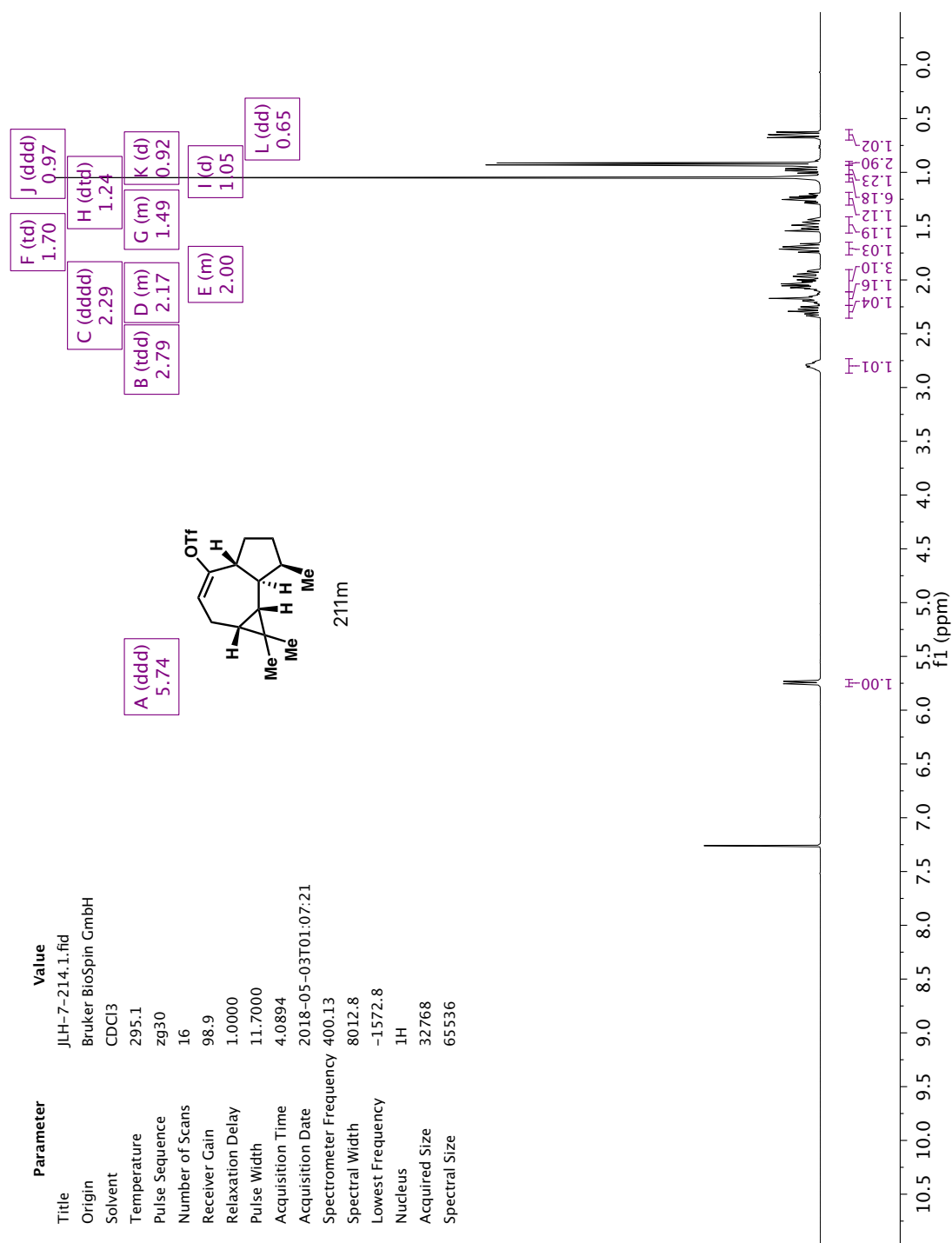


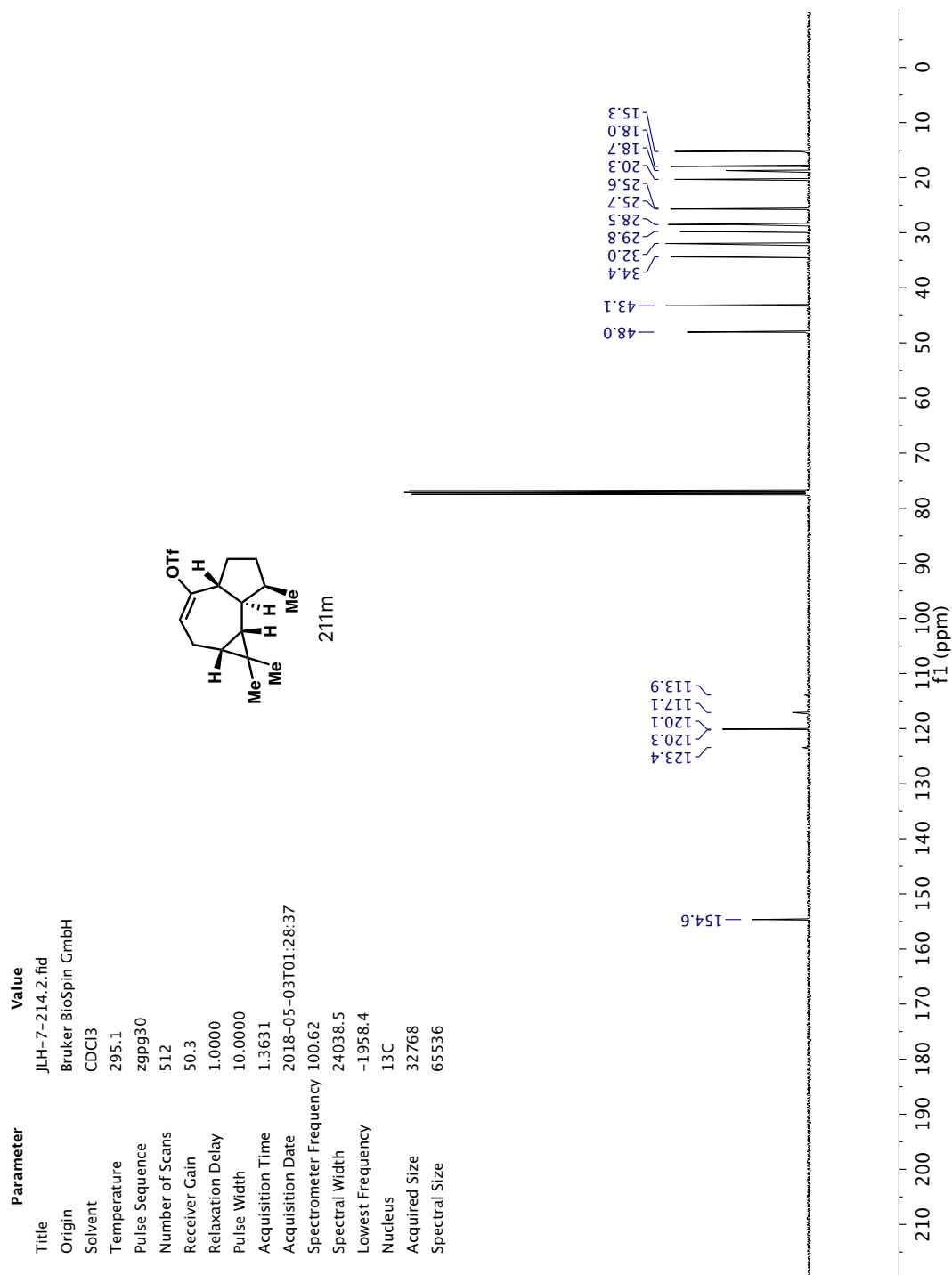


Parameter	Value
Title	JLH-7-243-F
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	16
Receiver Gain	30
Relaxation Delay	1.0000
Pulse Width	6.3333
Acquisition Time	0.9856
Acquisition Date	2018-06-14T01:19:18
Spectrometer Frequency	282.34
Spectral Width	64935.1
Lowest Frequency	-56453.2
Nucleus	19F
Acquired Size	64000
Spectral Size	131072

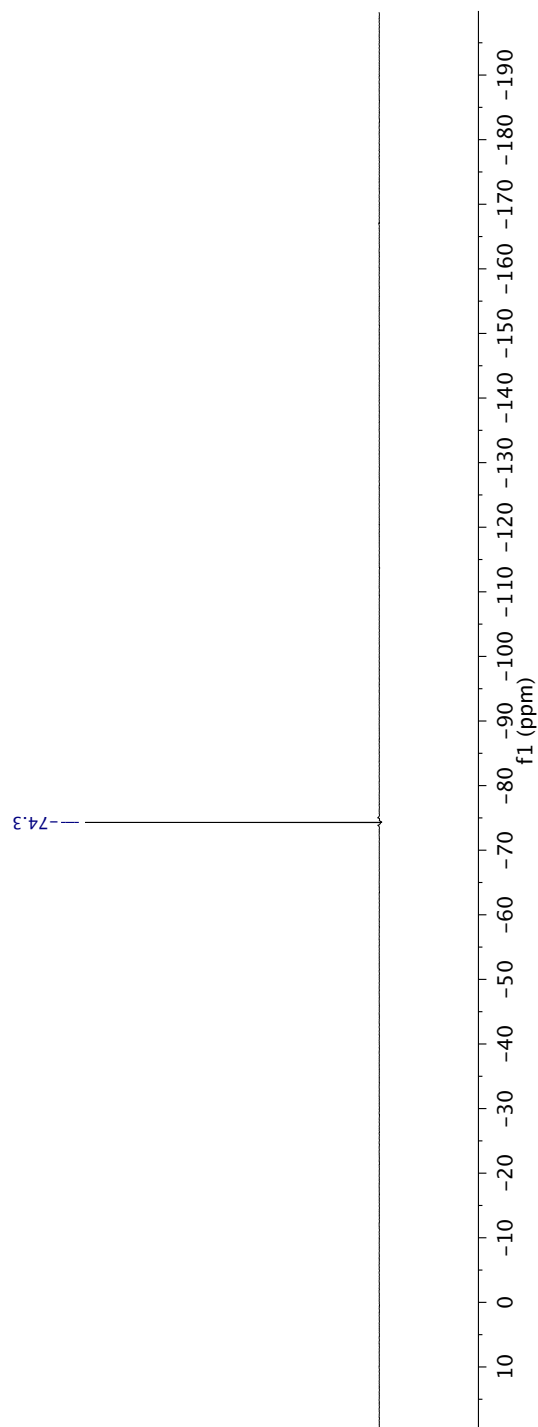
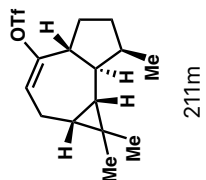




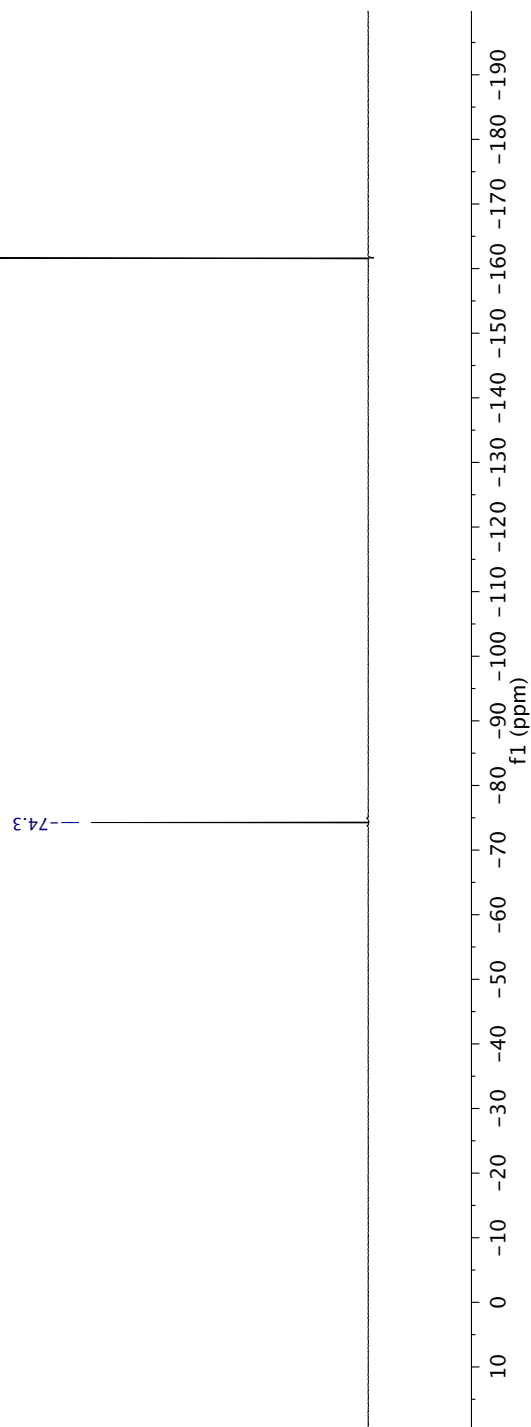
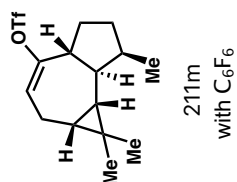


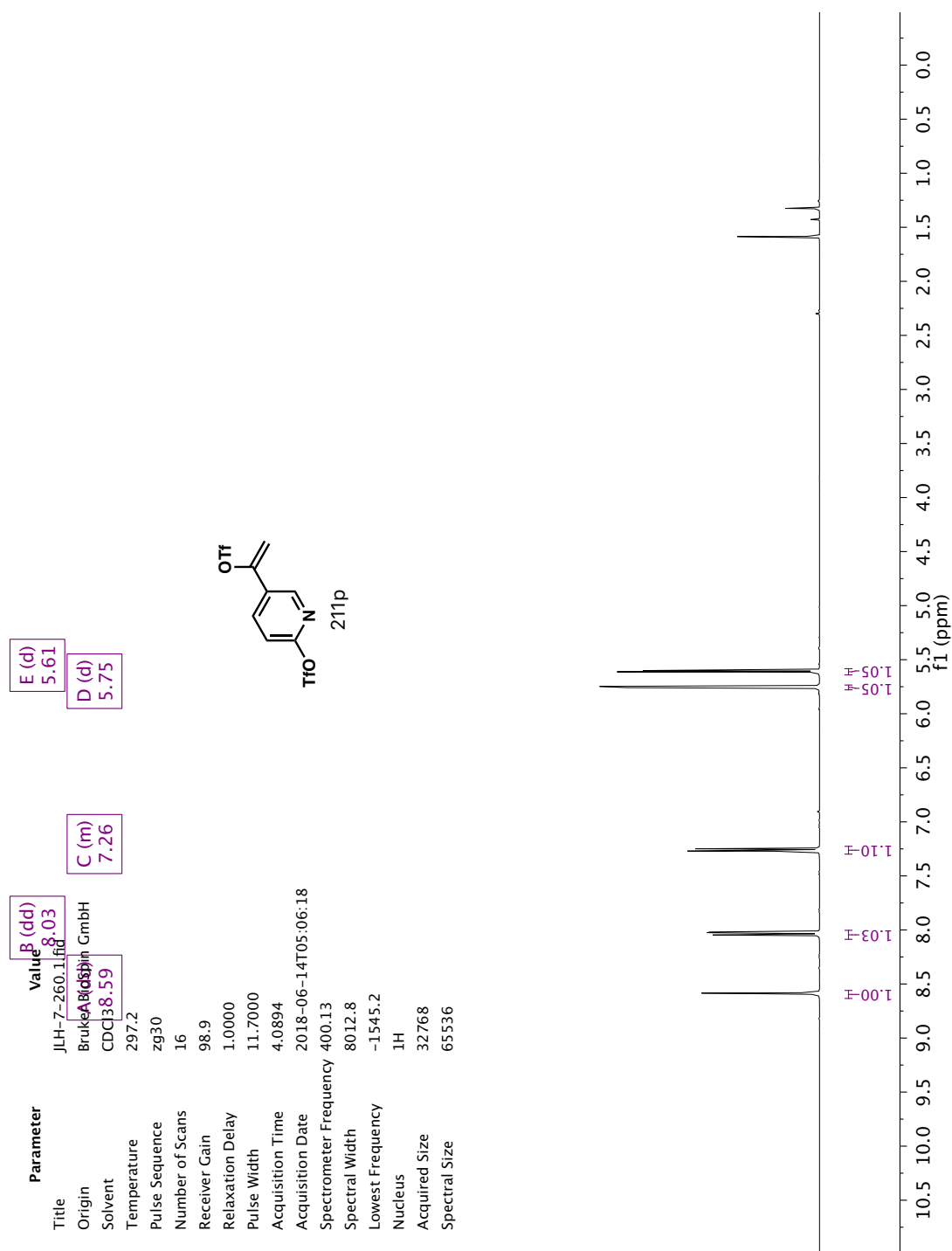


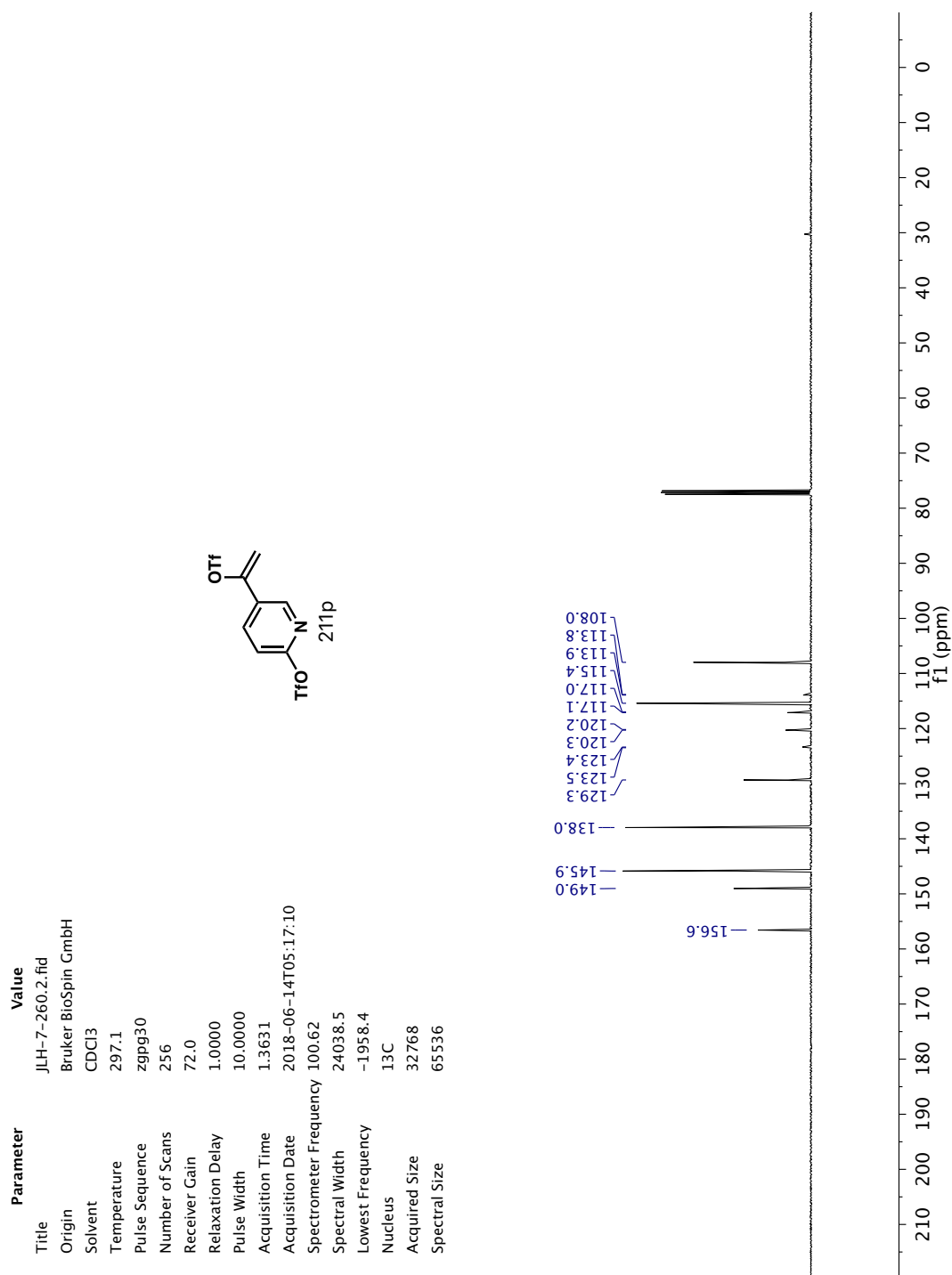
Parameter	Value
Title	JLH-7-214-F
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	16
Receiver Gain	30
Relaxation Delay	1.0000
Pulse Width	6.3333
Acquisition Time	0.9856
Acquisition Date	2018-05-03T23:01:13
Spectrometer Frequency	282.34
Spectral Width	64935.1
Lowest Frequency	-56468.7
Nucleus	19F
Acquired Size	64000
Spectral Size	131072

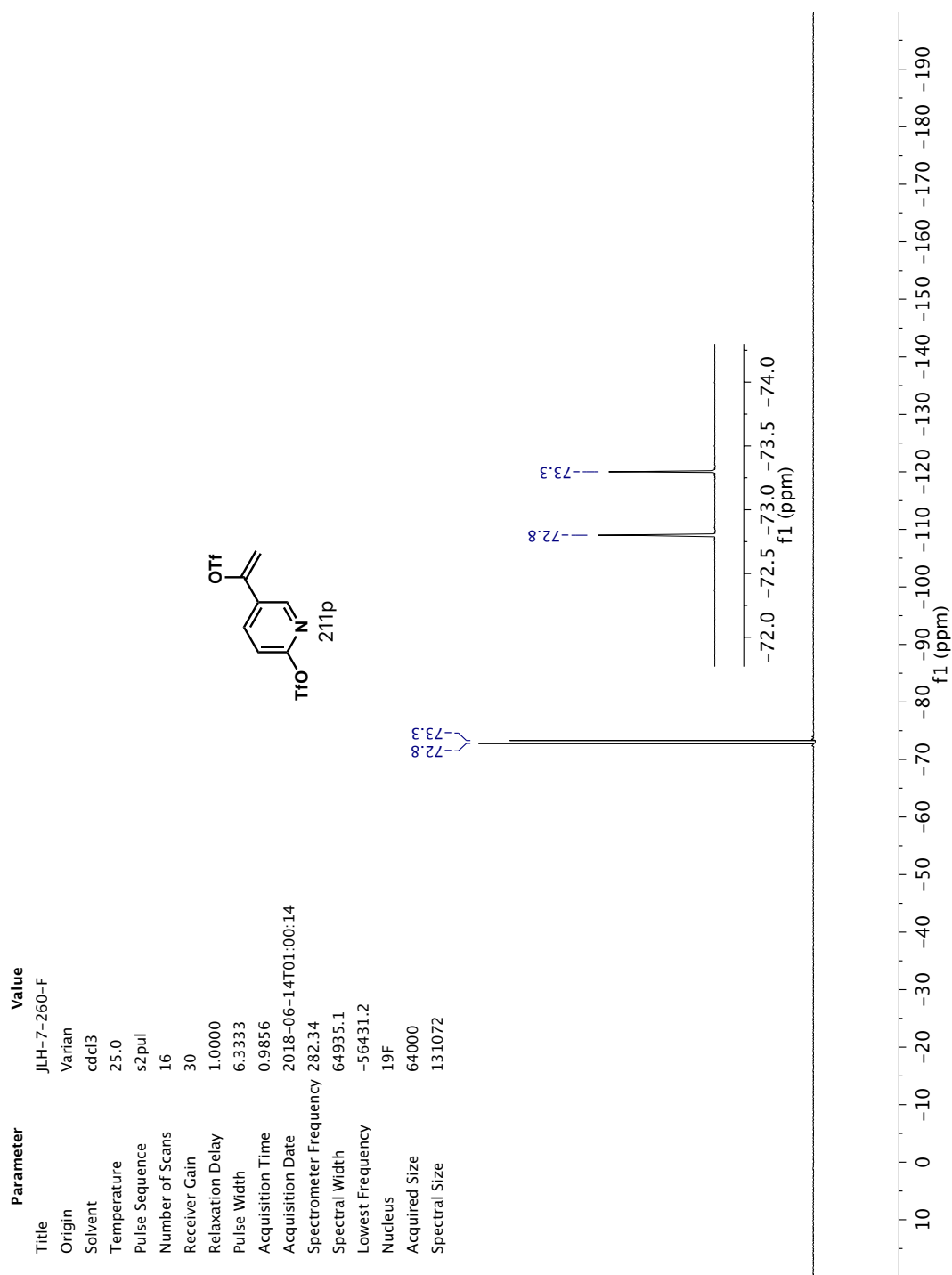


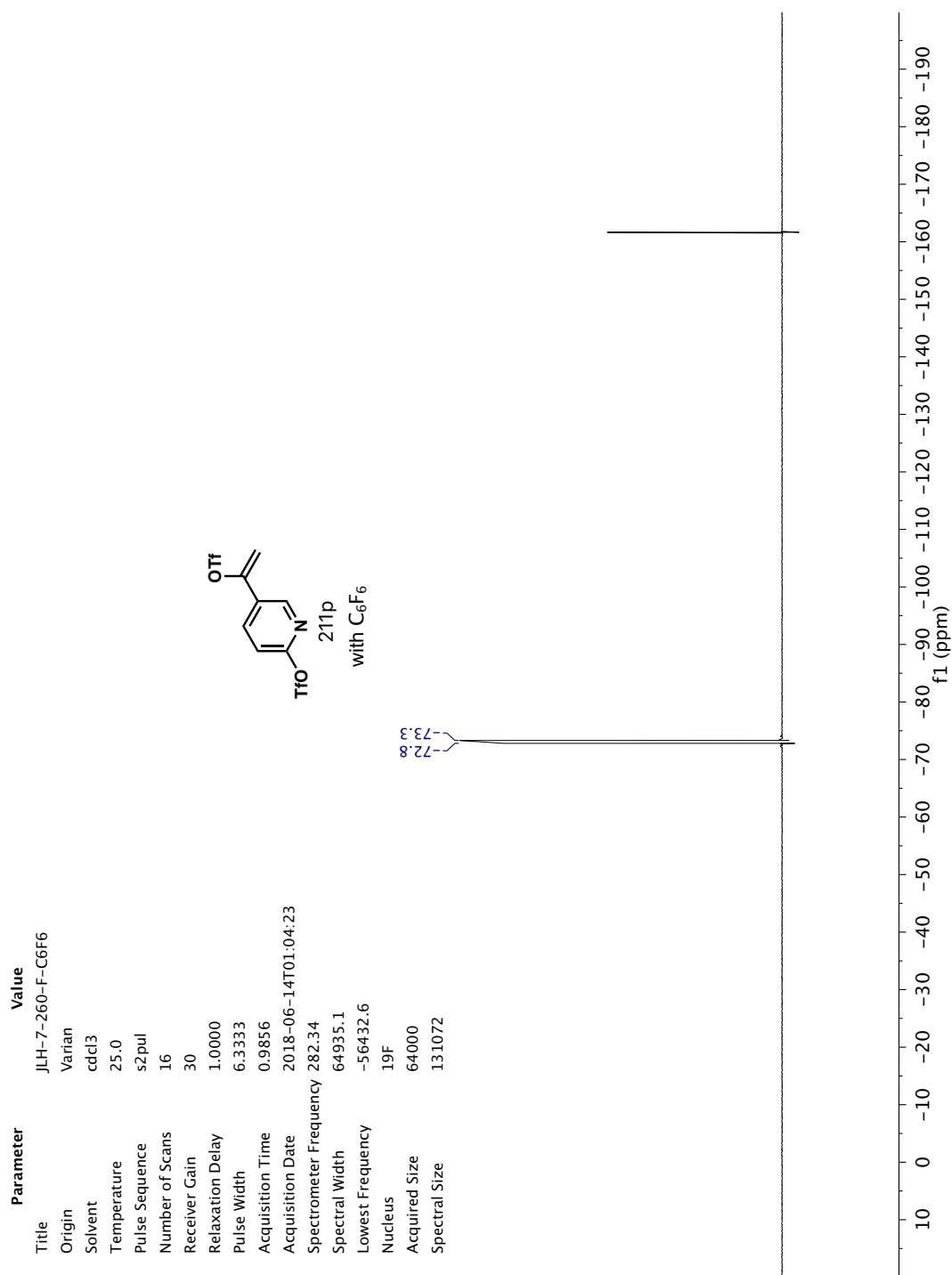
Parameter	Value
Title	JLH-7-214-F-C6F6
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	16
Receiver Gain	30
Relaxation Delay	1.0000
Pulse Width	6.3333
Acquisition Time	0.9856
Acquisition Date	2018-05-23T22:28:36
Spectrometer Frequency	282.34
Spectral Width	64935.1
Lowest Frequency	-56468.7
Nucleus	19F
Acquired Size	64000
Spectral Size	131072

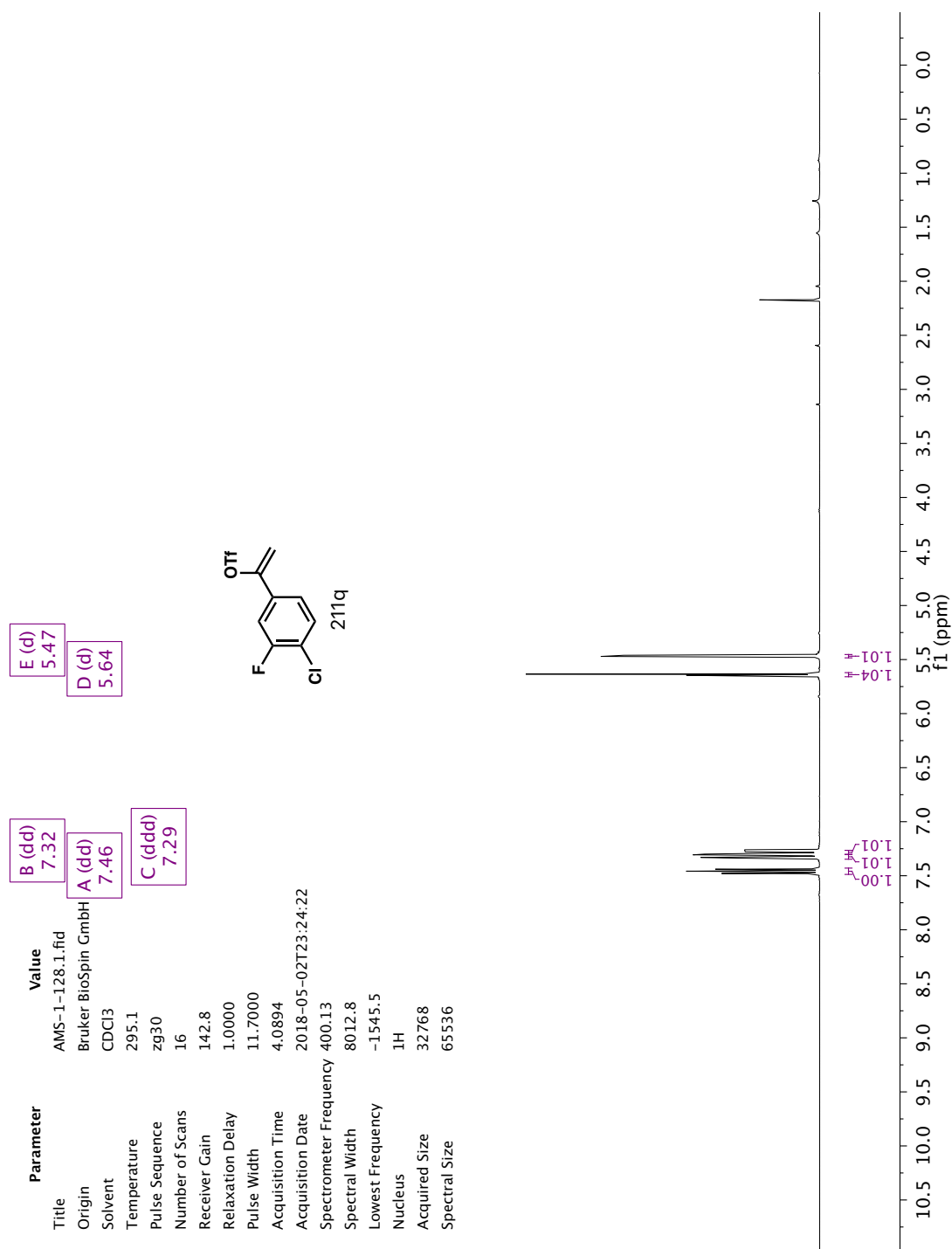


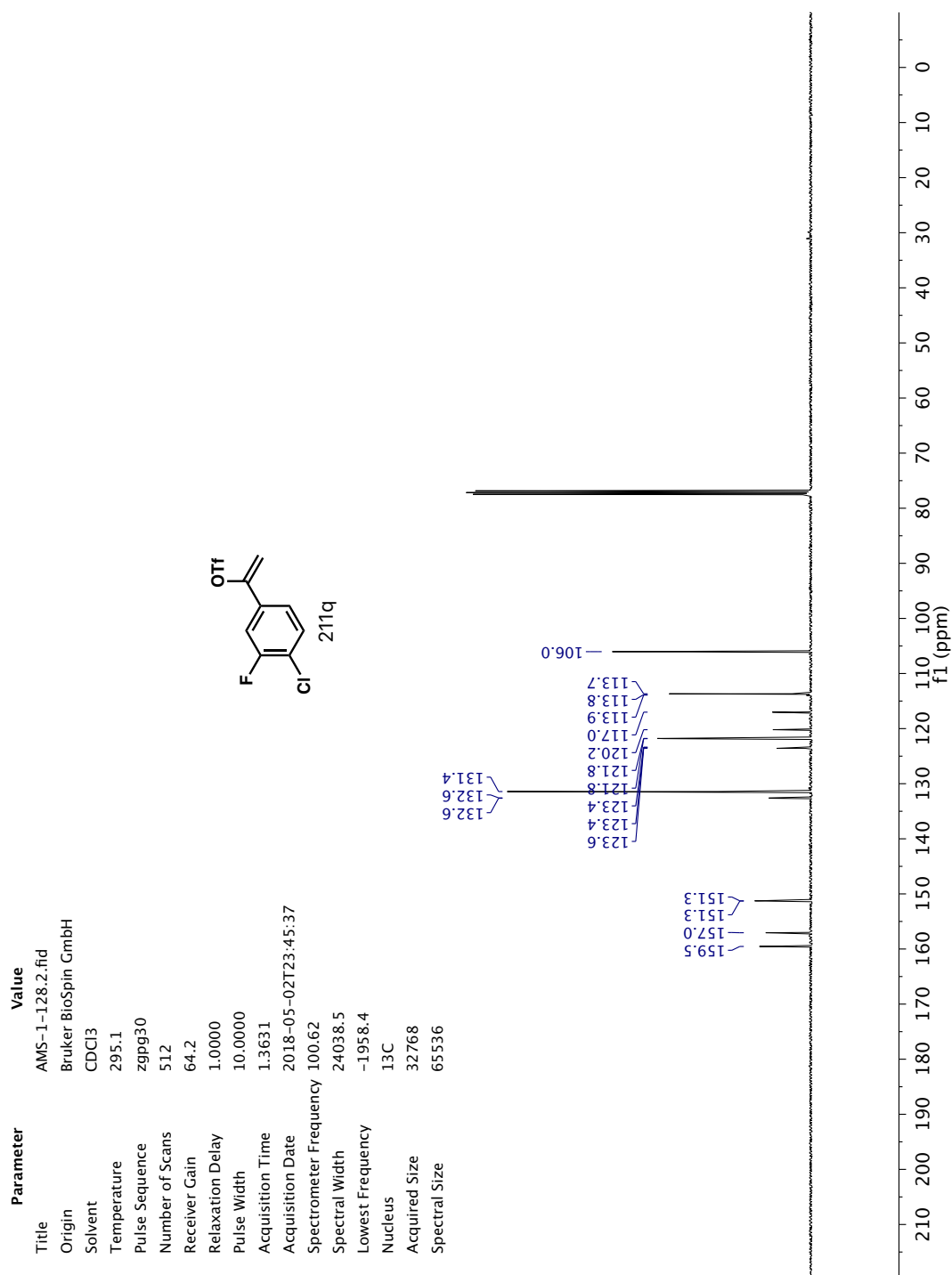


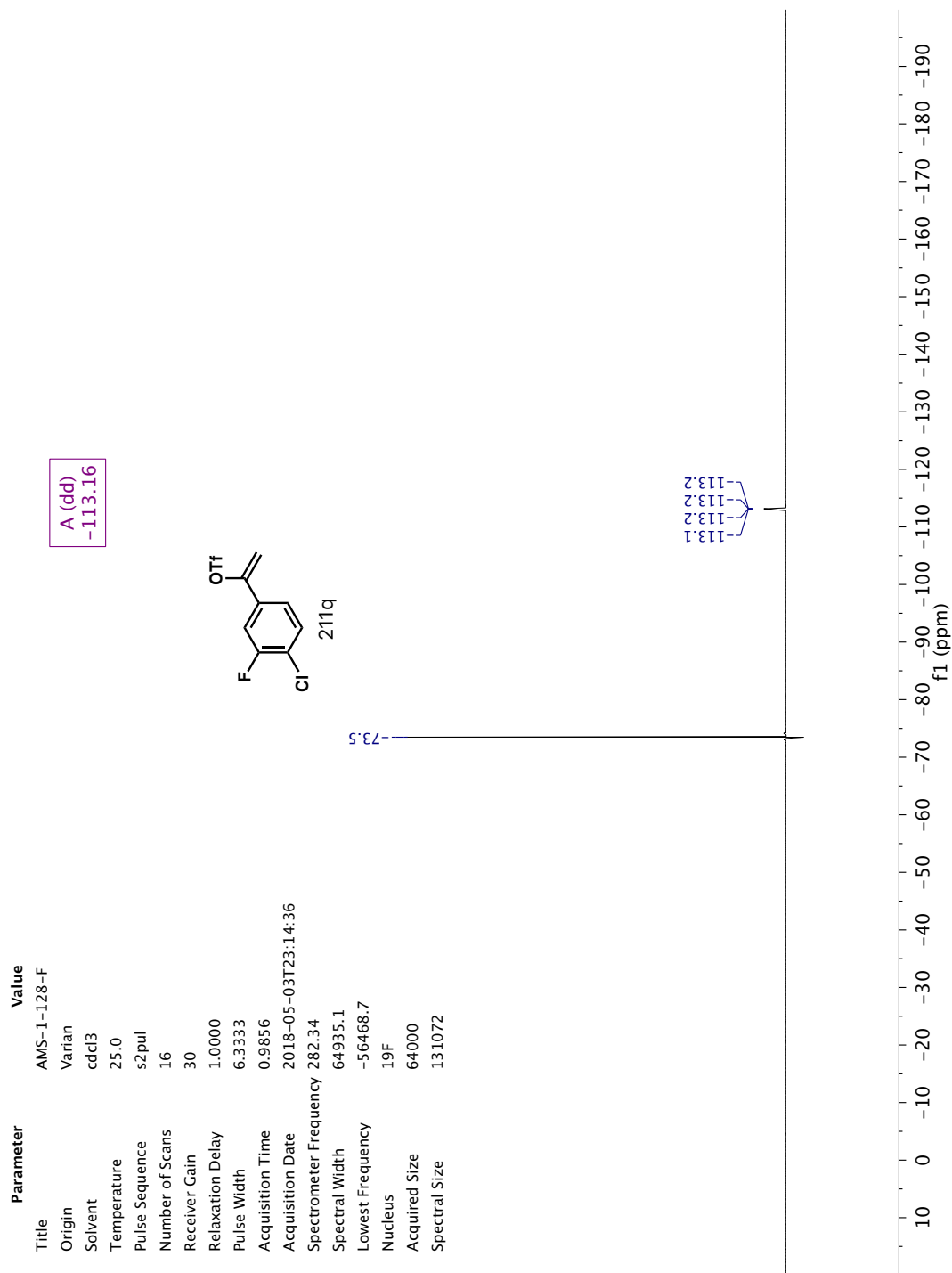


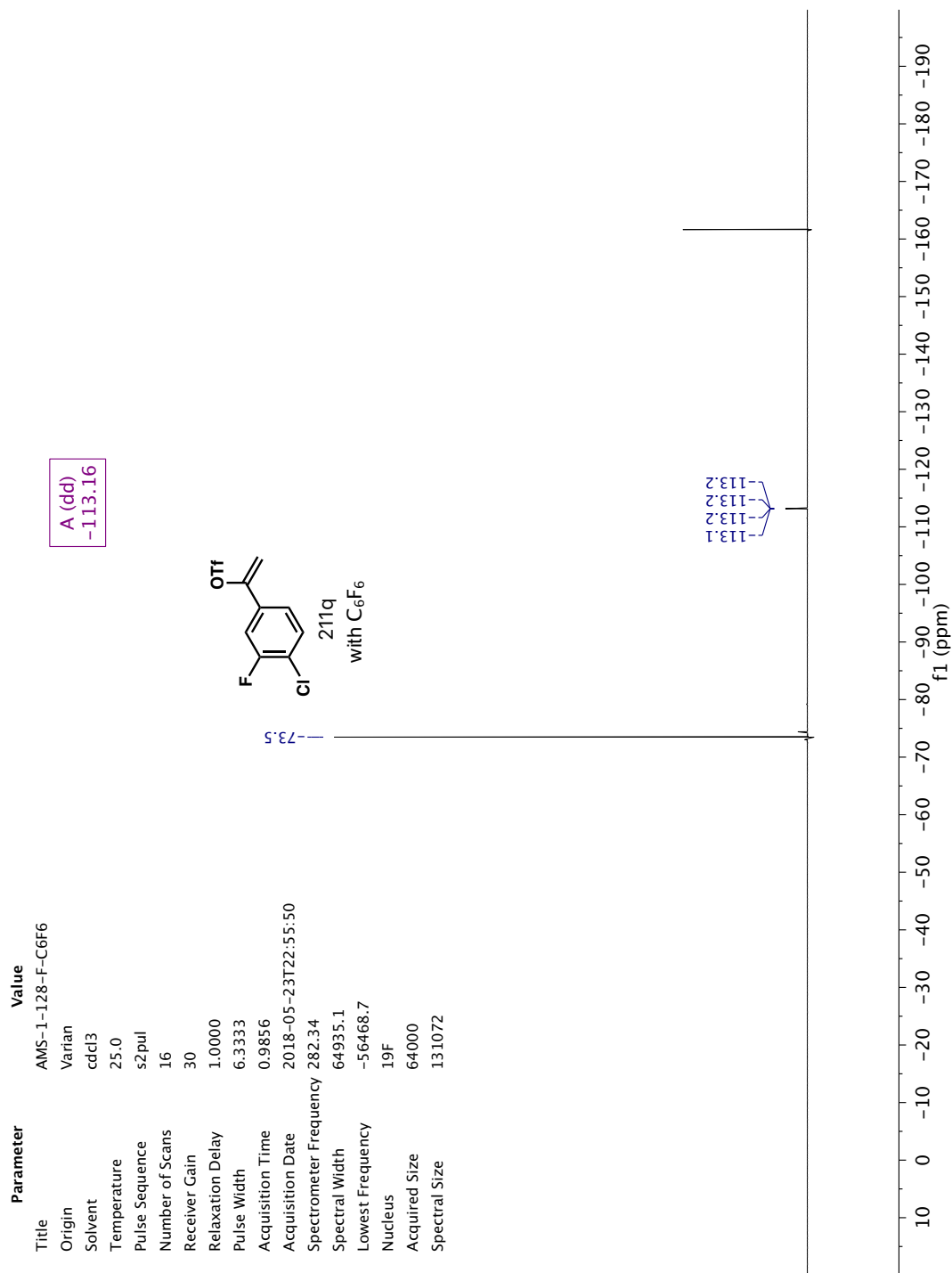


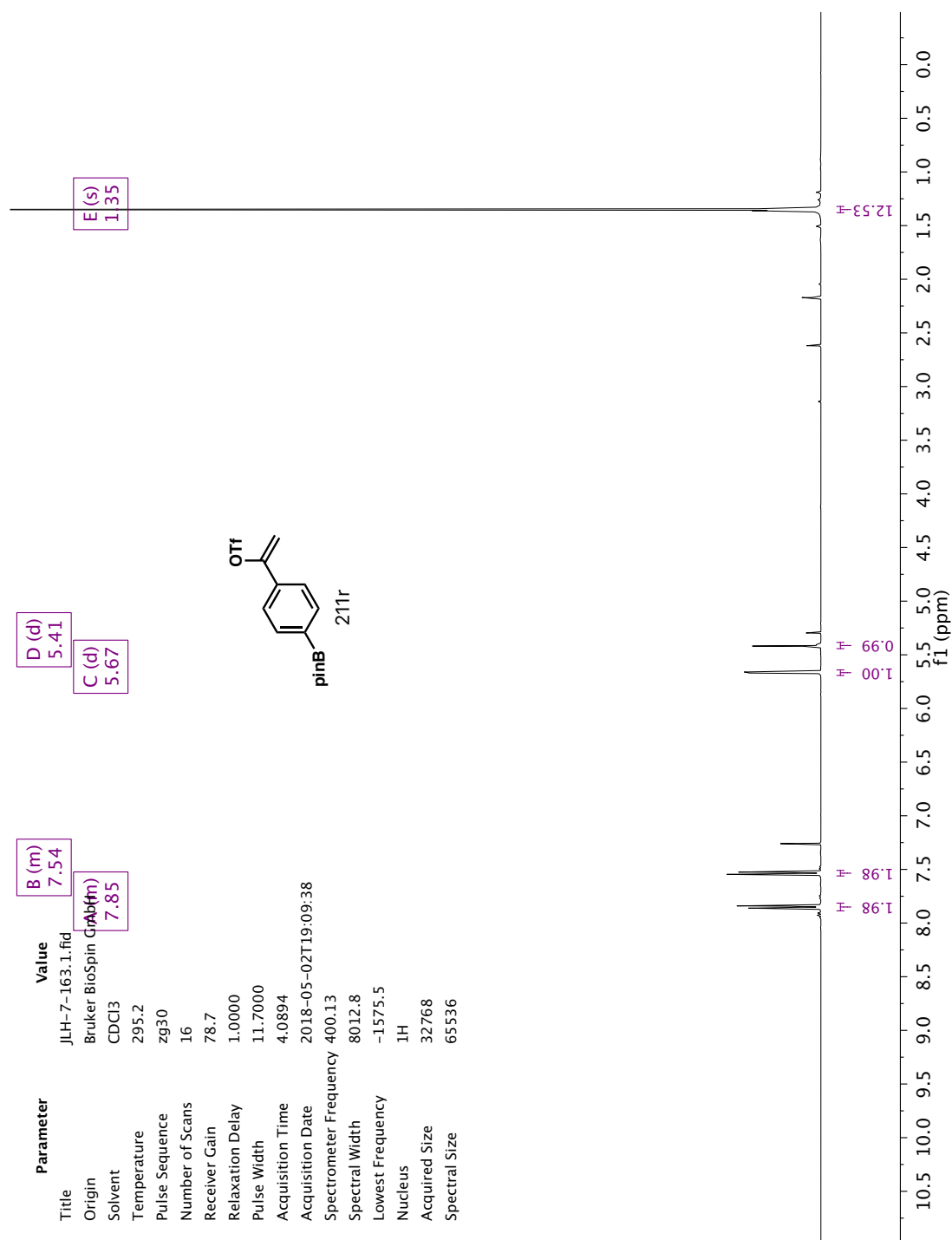


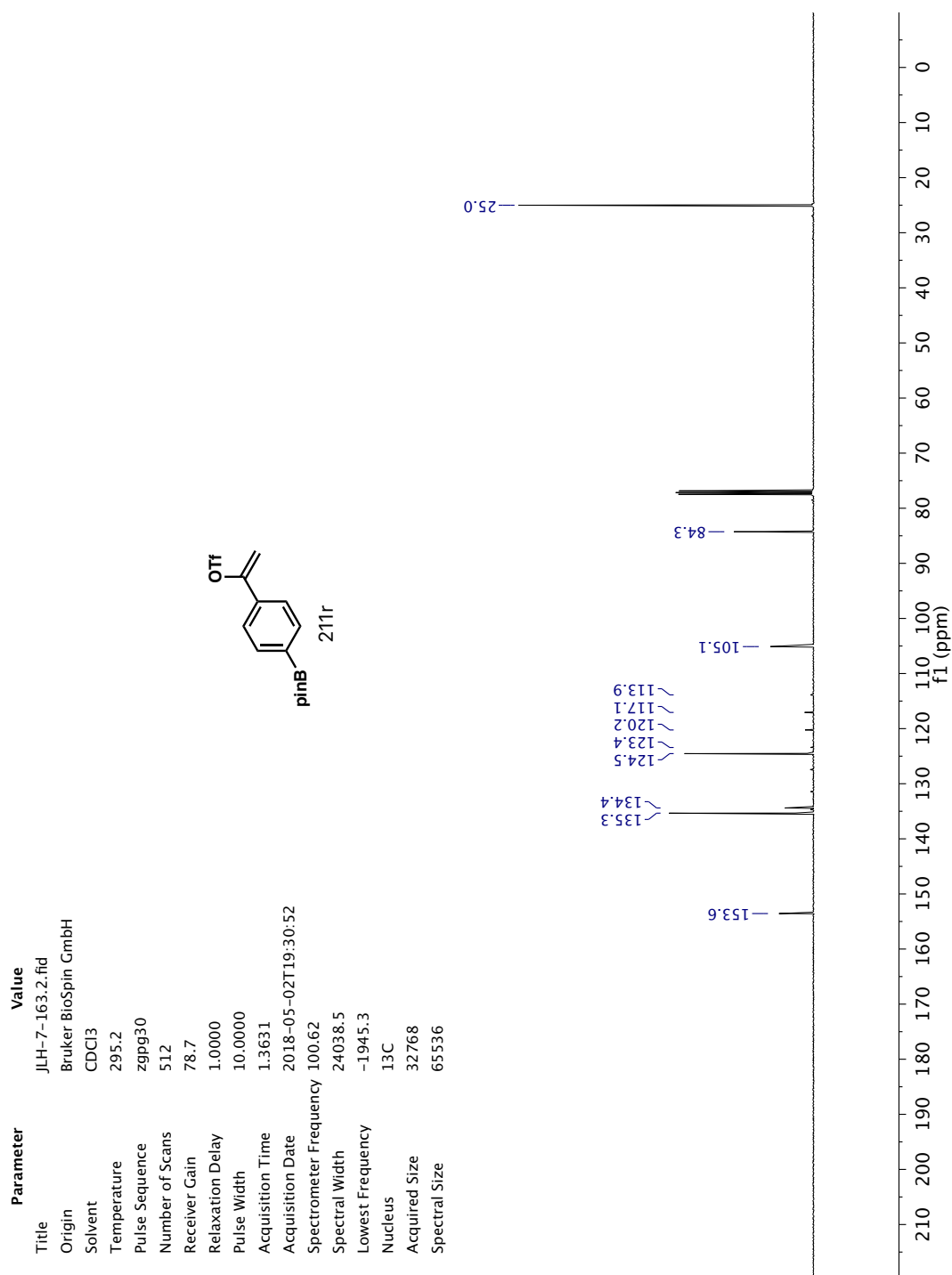




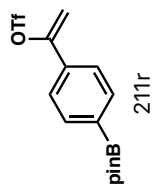








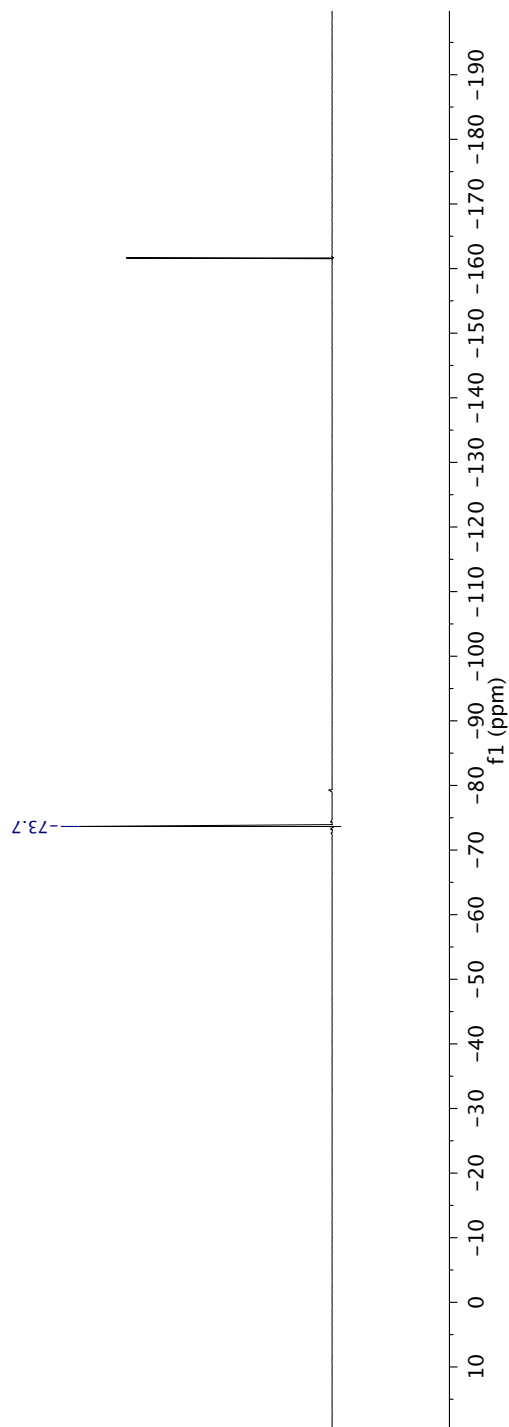
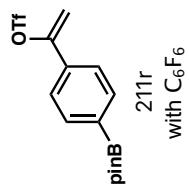
Parameter	Value
Title	JLH-7-163-F
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	16
Receiver Gain	30
Relaxation Delay	1.0000
Pulse Width	6.3333
Acquisition Time	0.9856
Acquisition Date	2018-05-03T23:10:20
Spectrometer Frequency	282.34
Spectral Width	64935.1
Lowest Frequency	-56468.7
Nucleus	¹⁹ F
Acquired Size	64000
Spectral Size	131072

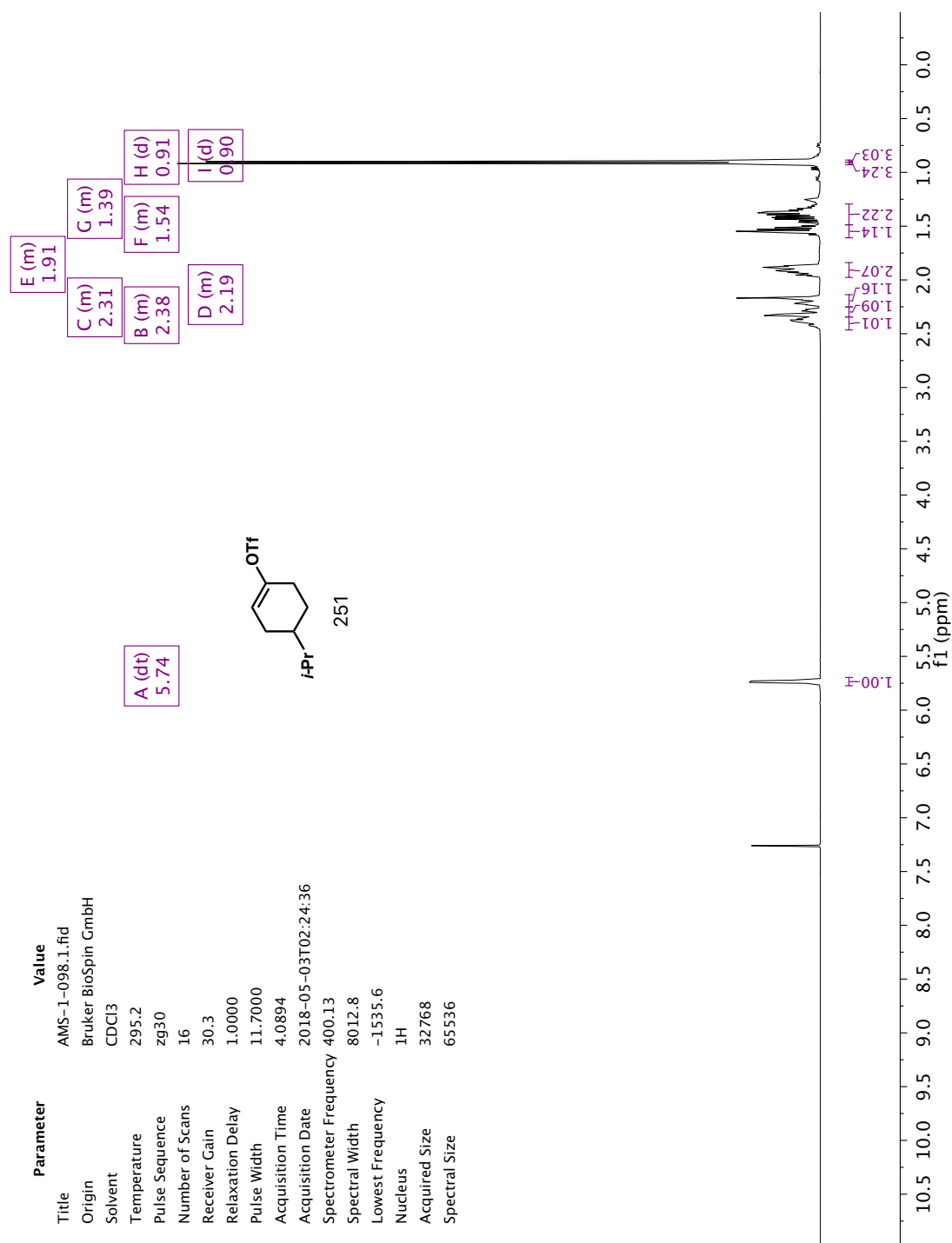


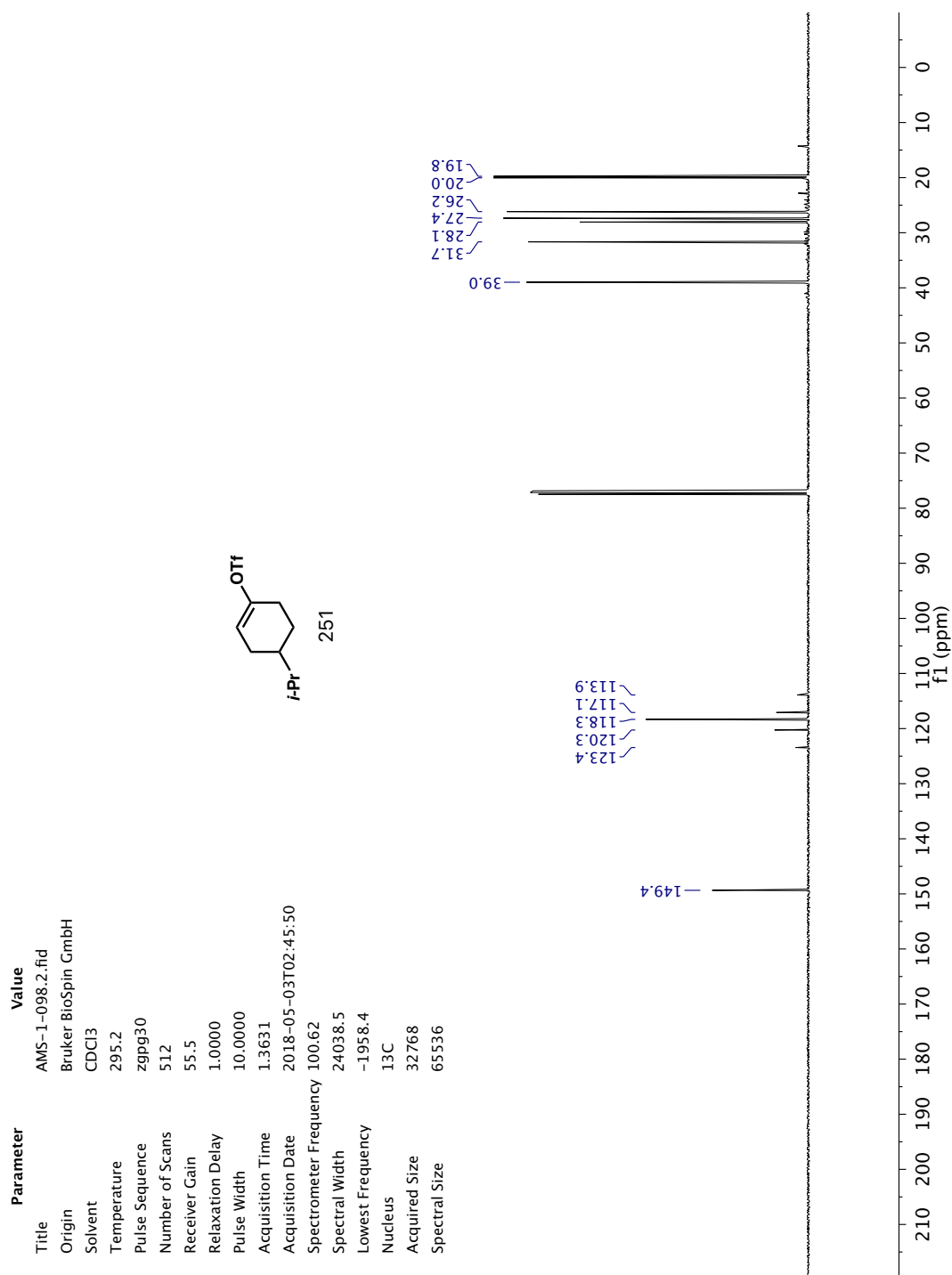
-73.7

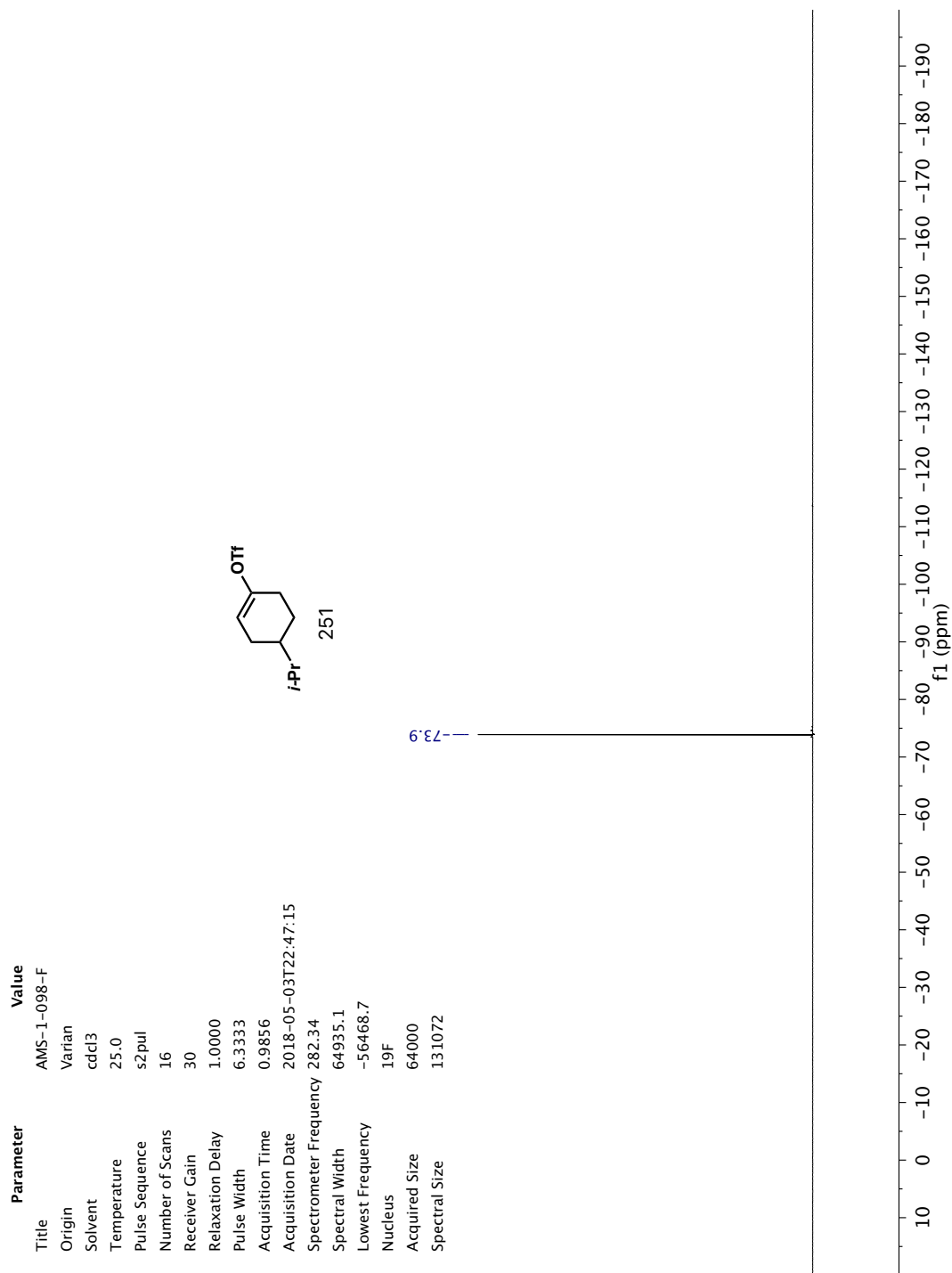
10 0 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100 -110 -120 -130 -140 -150 -160 -170 -180 -190
f1 (ppm)

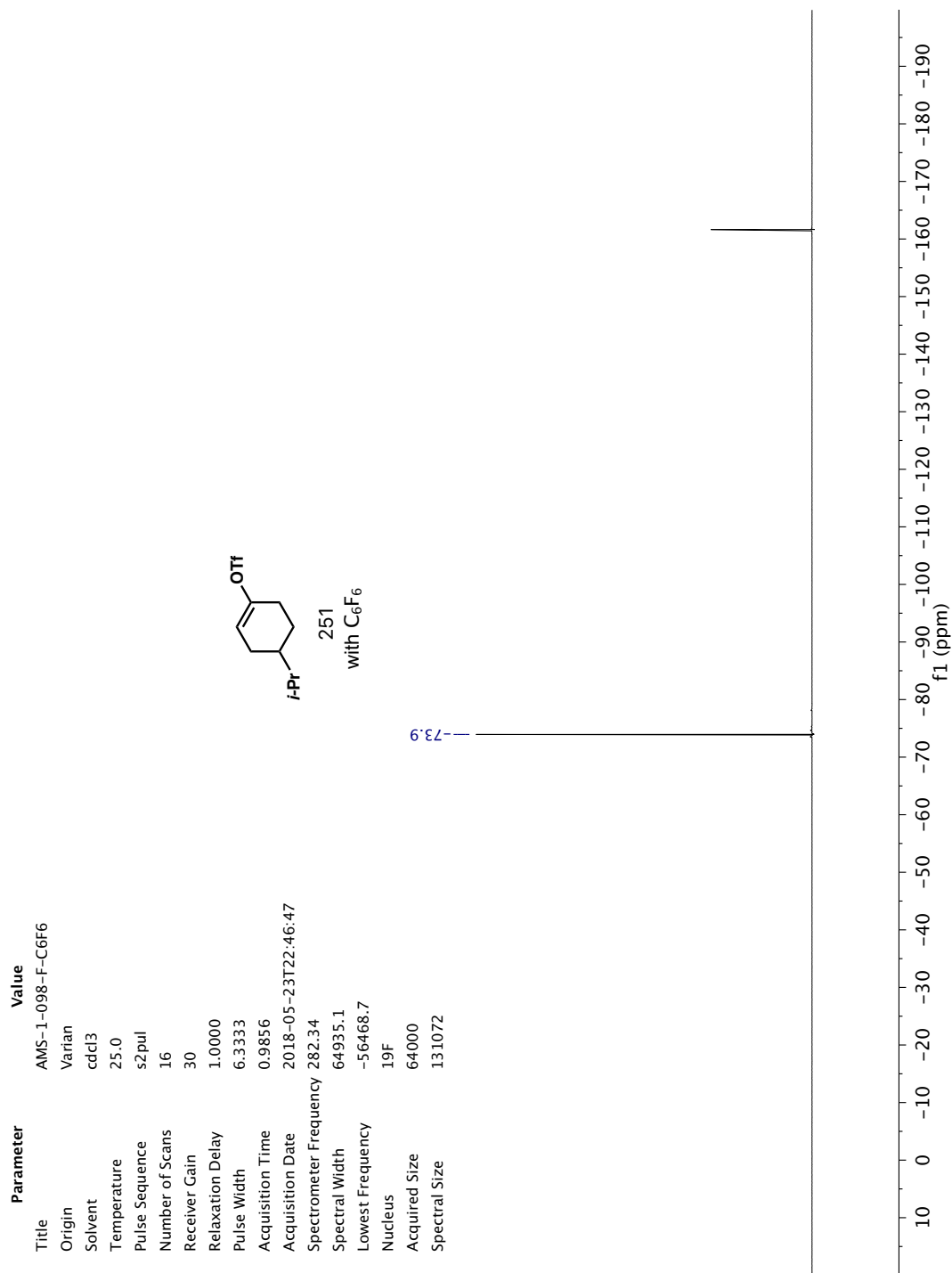
Parameter	Value
Title	JLH-7-163-F-C6F6
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	16
Receiver Gain	30
Relaxation Delay	1.0000
Pulse Width	6.3333
Acquisition Time	0.9856
Acquisition Date	2018-05-23T22:23:44
Spectrometer Frequency	282.34
Spectral Width	64935.1
Lowest Frequency	-56434.5
Nucleus	¹⁹ F
Acquired Size	64000
Spectral Size	131072

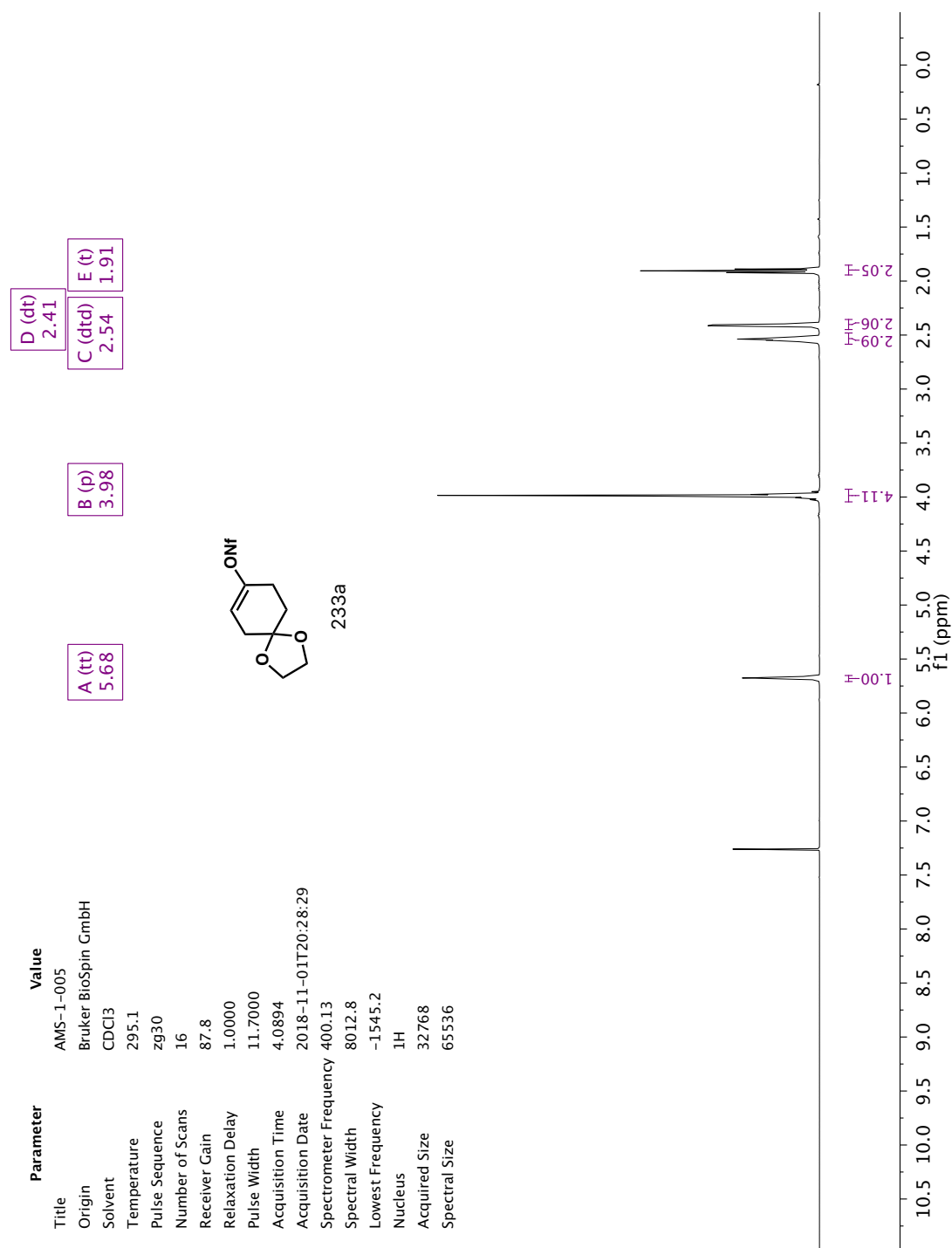


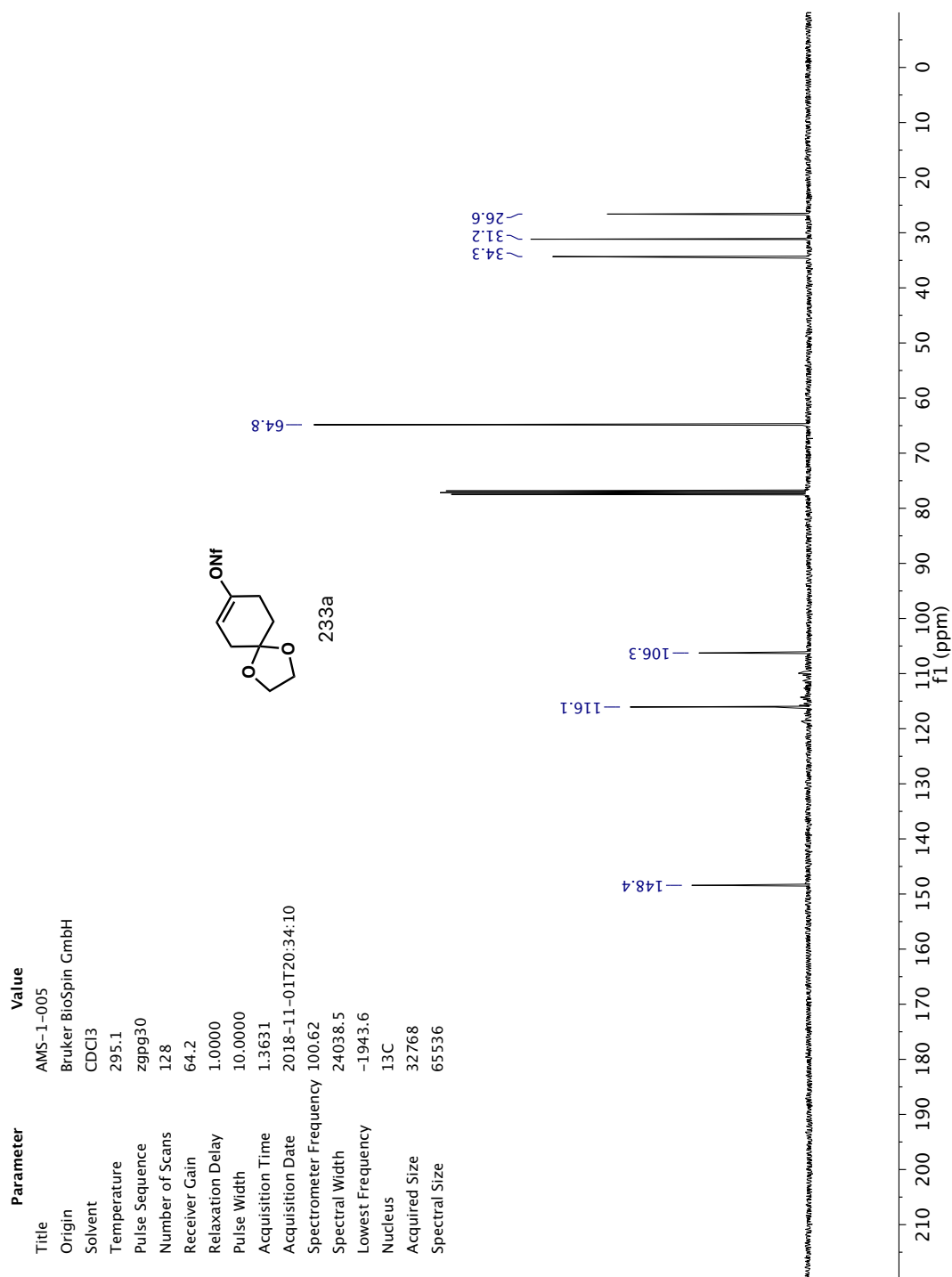


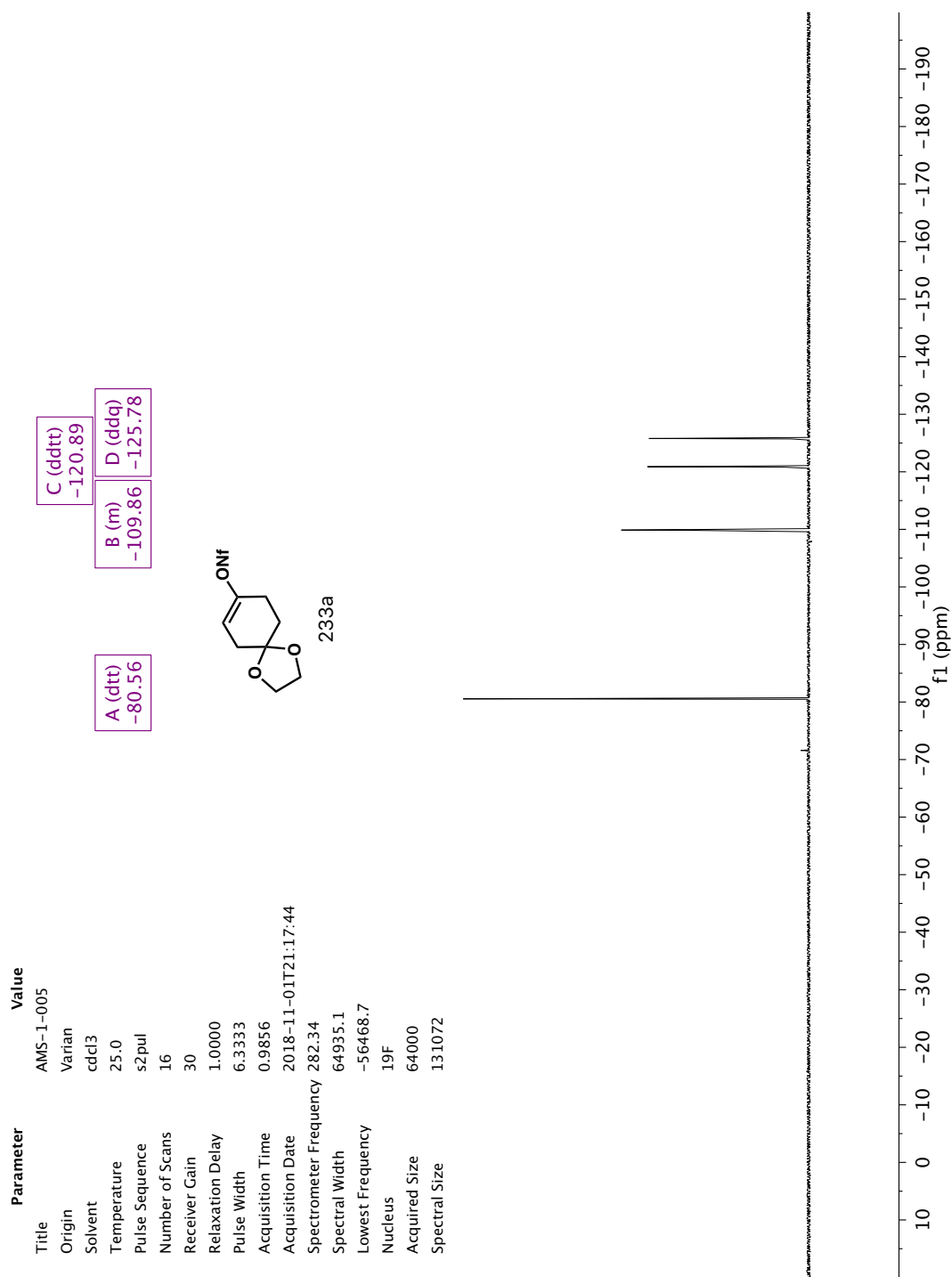


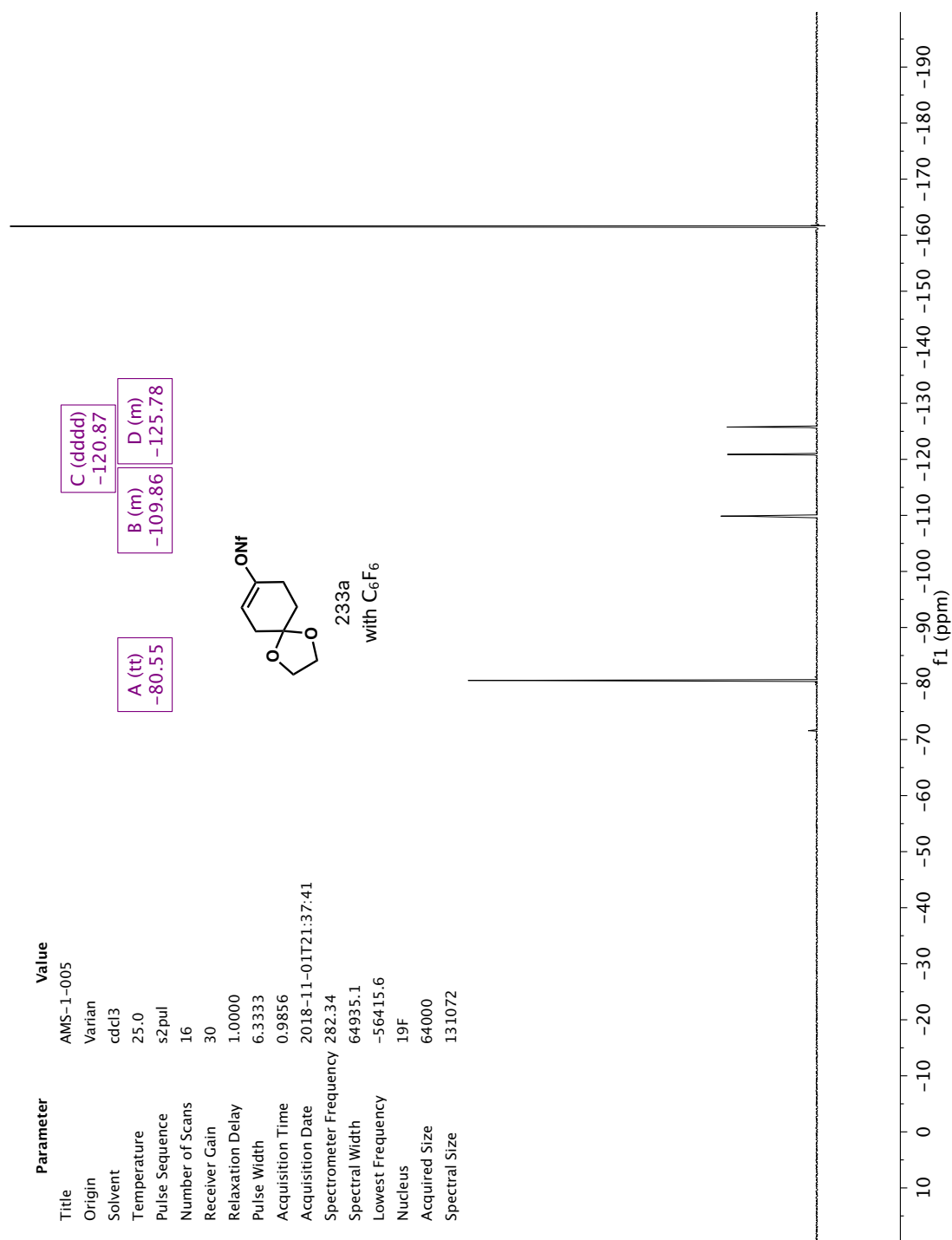


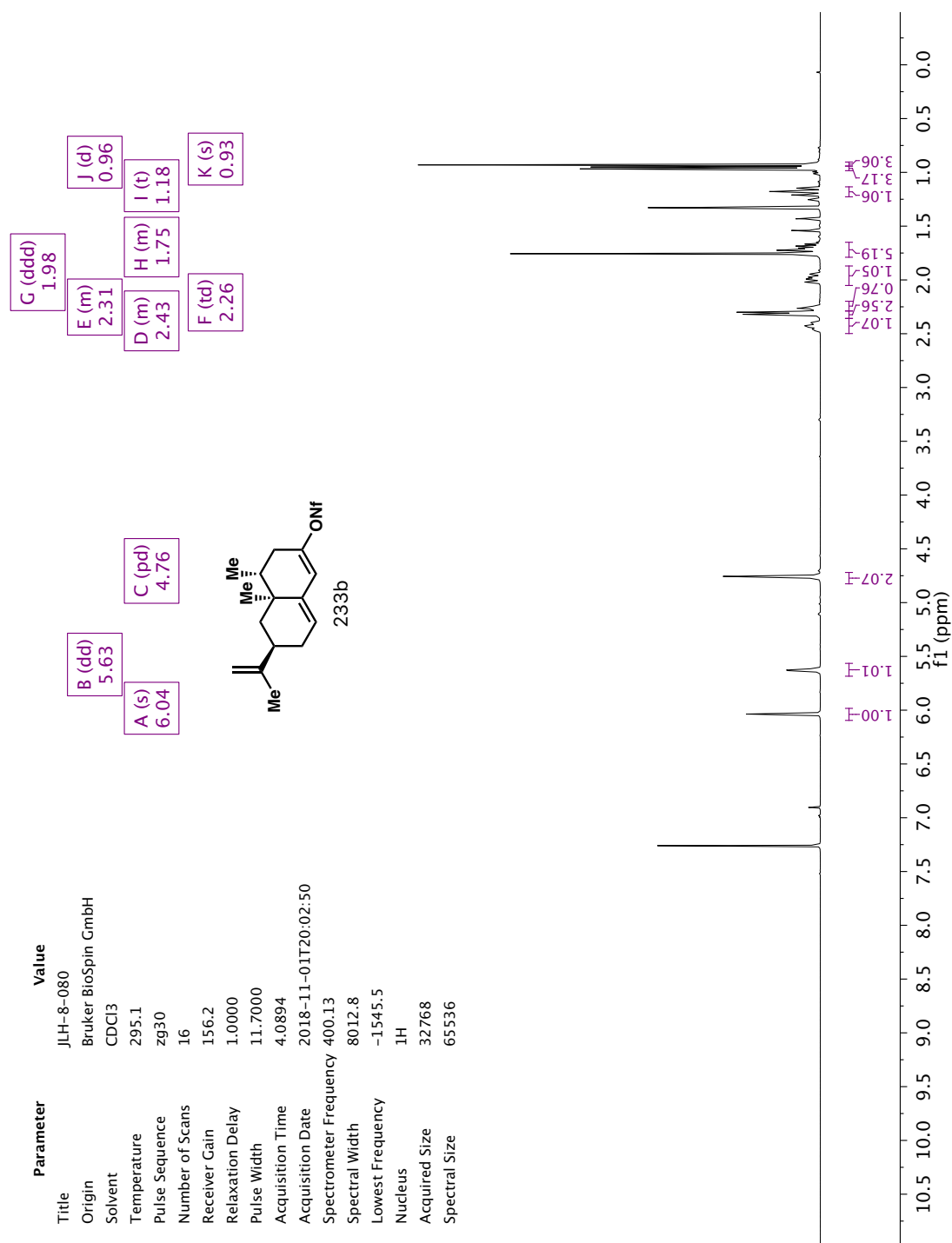


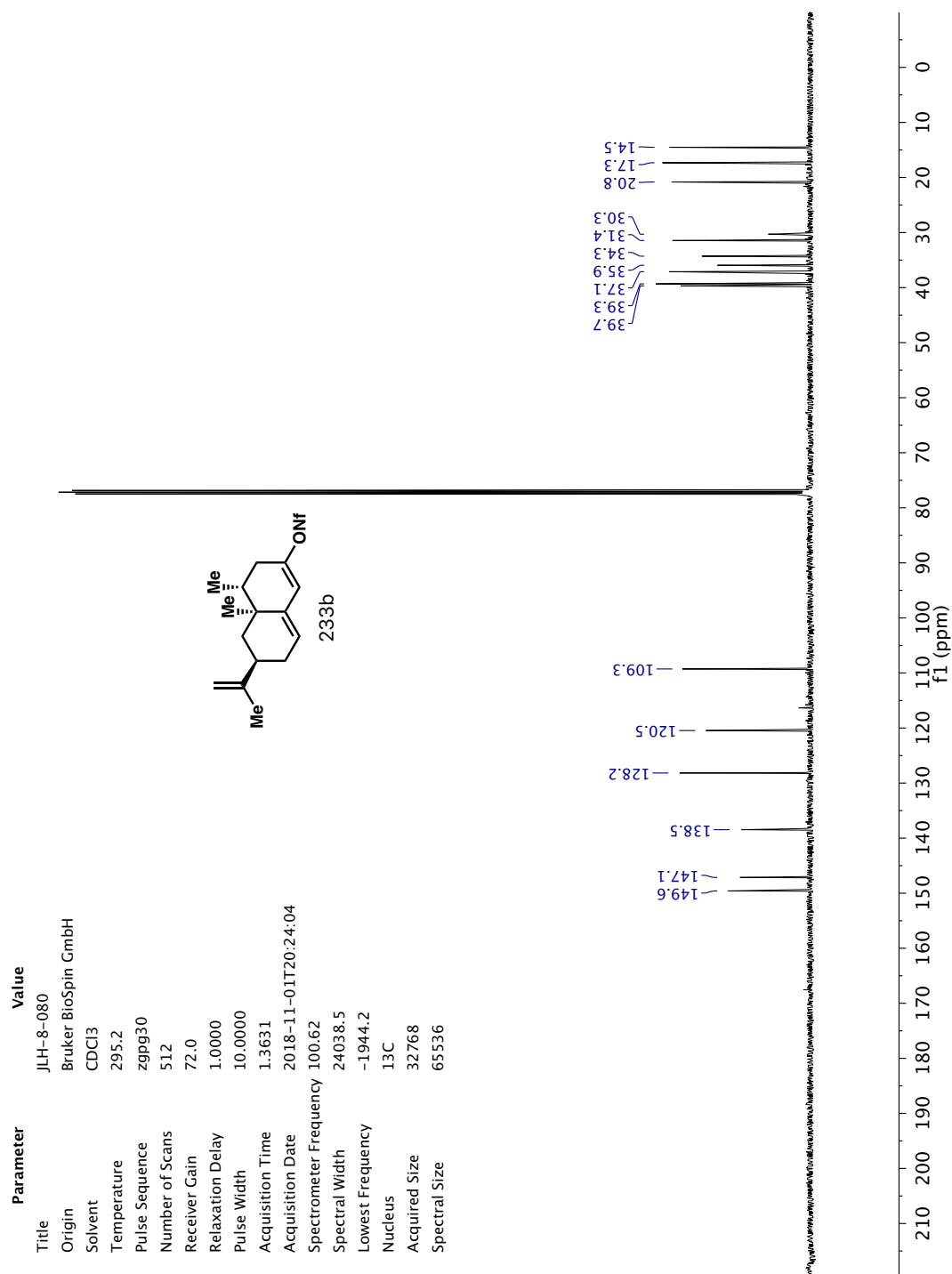


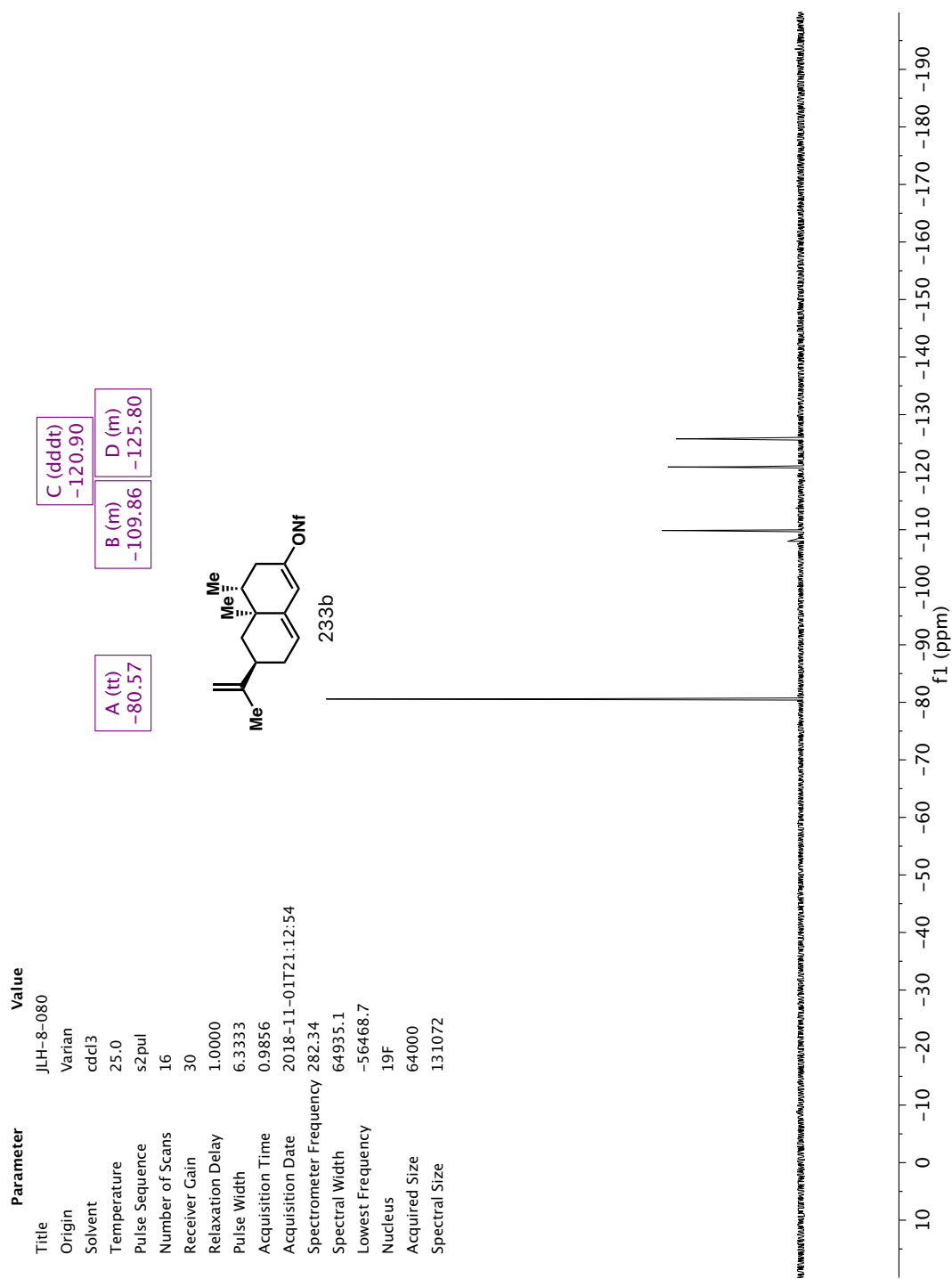


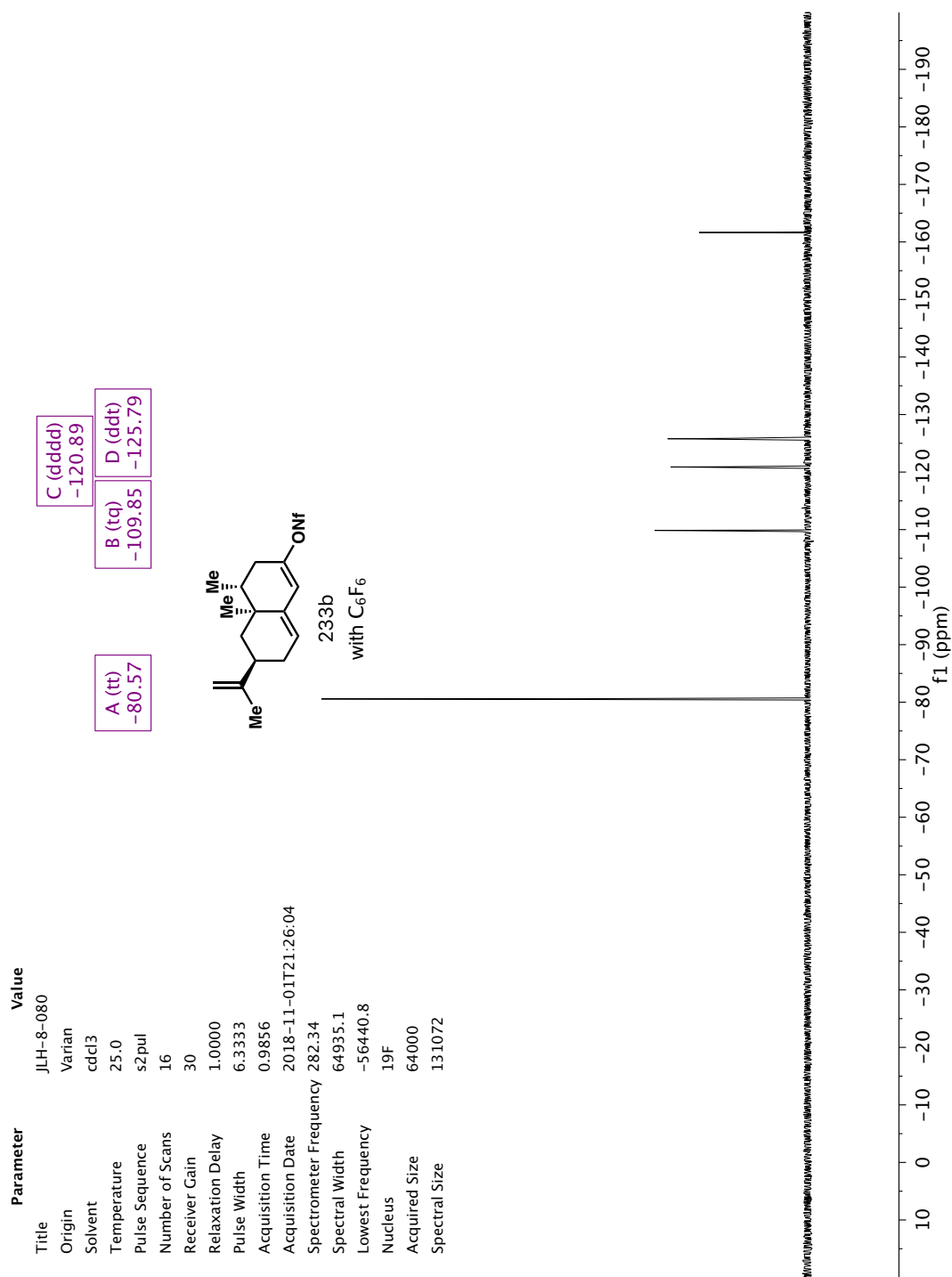


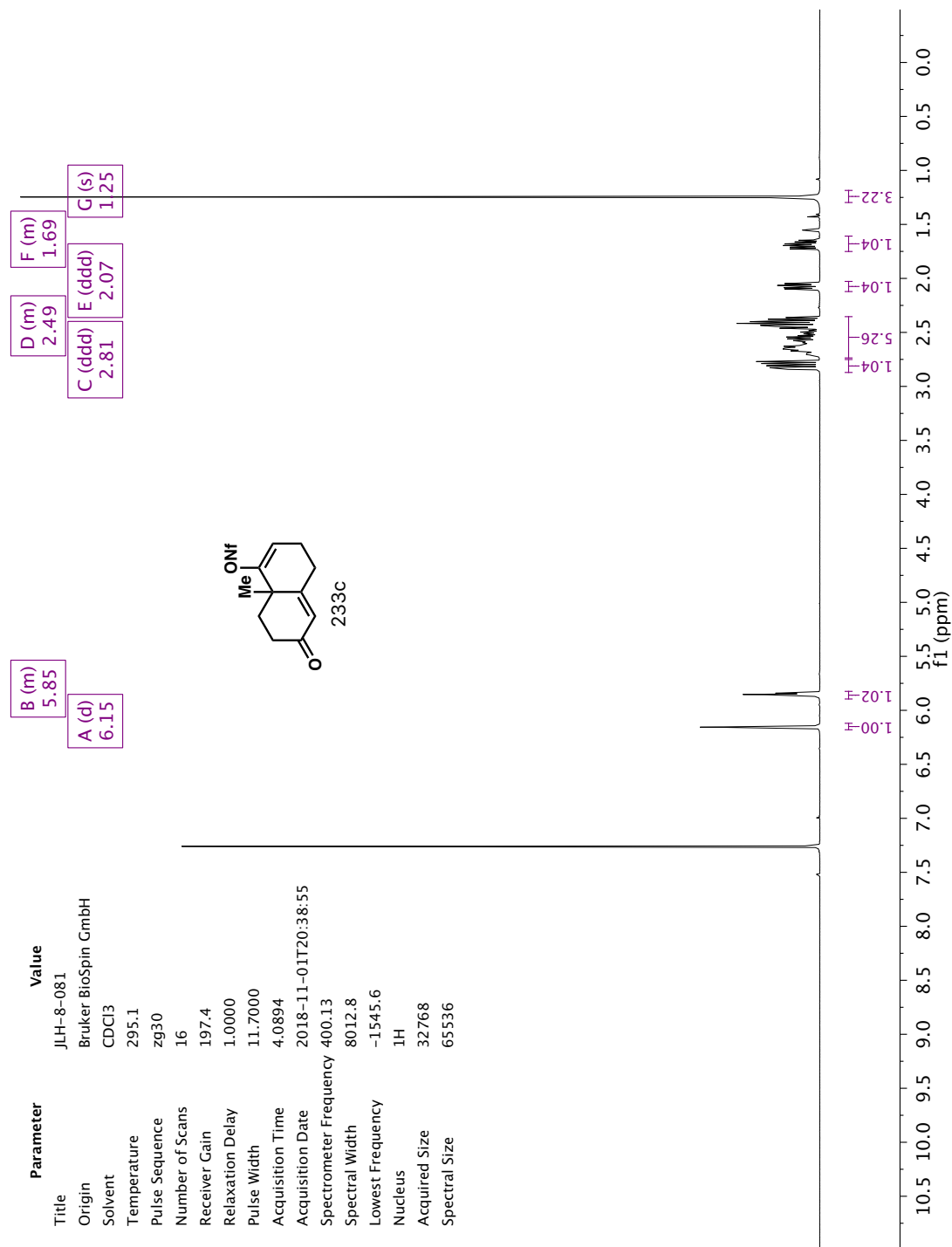


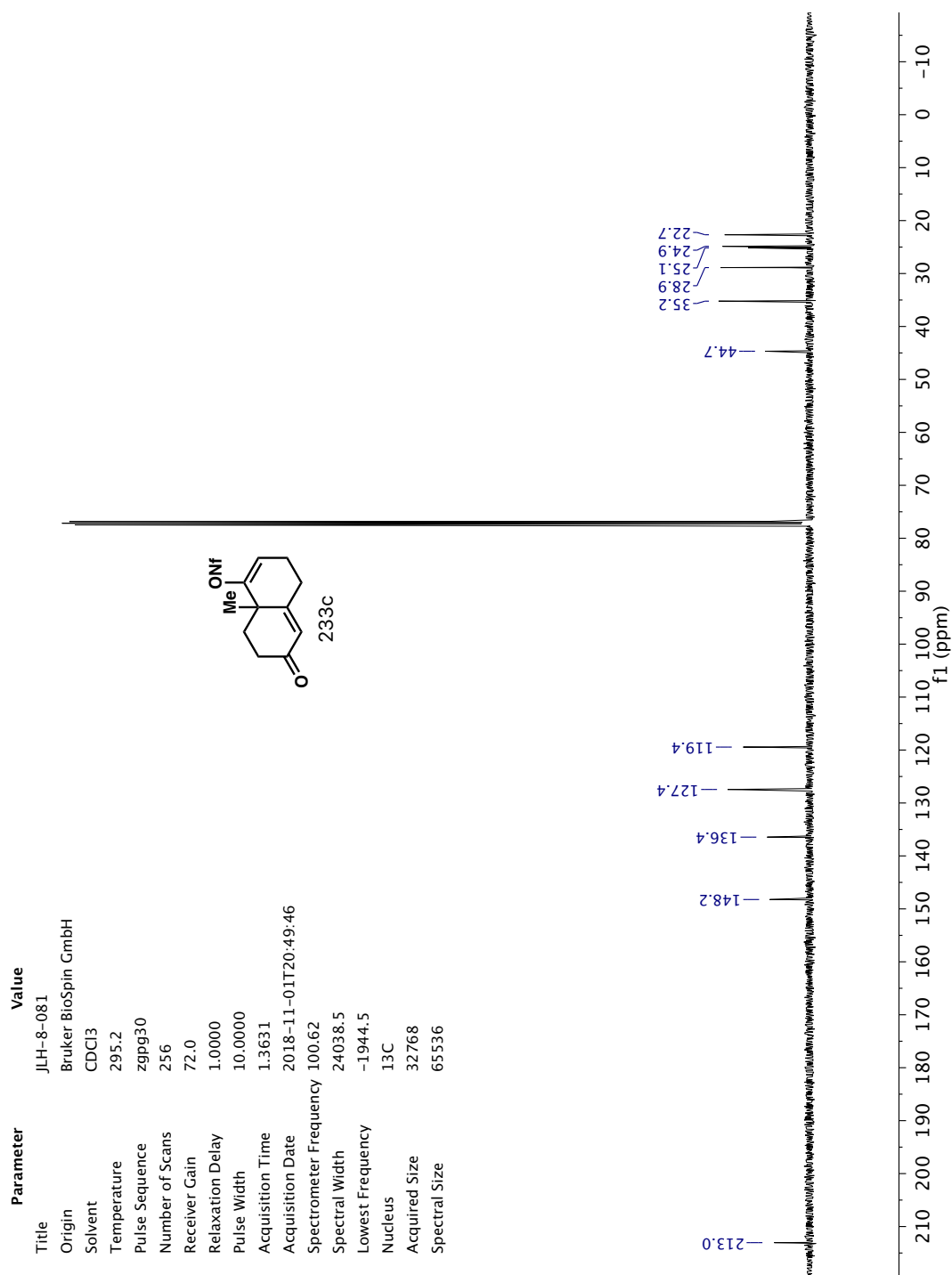


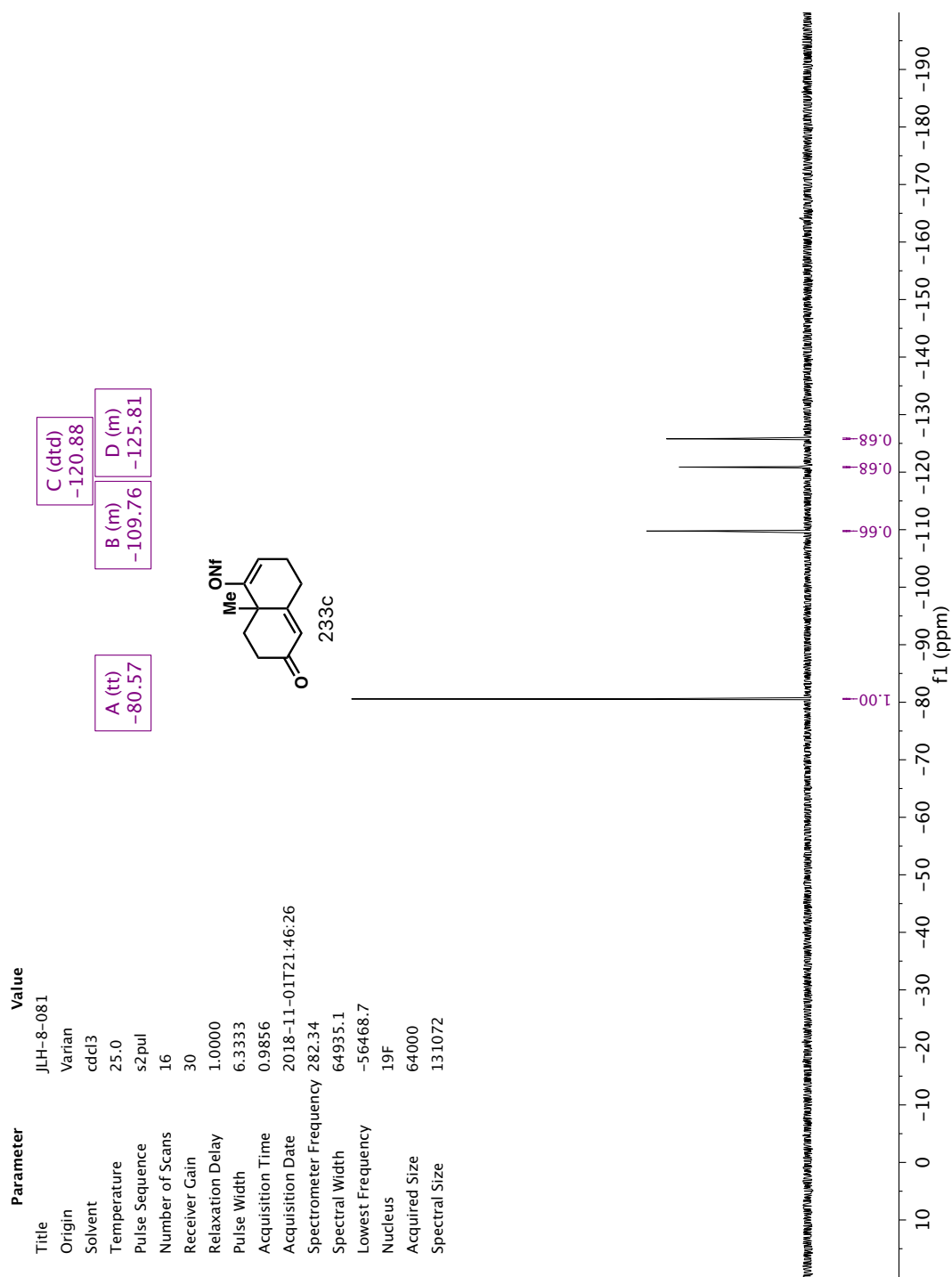


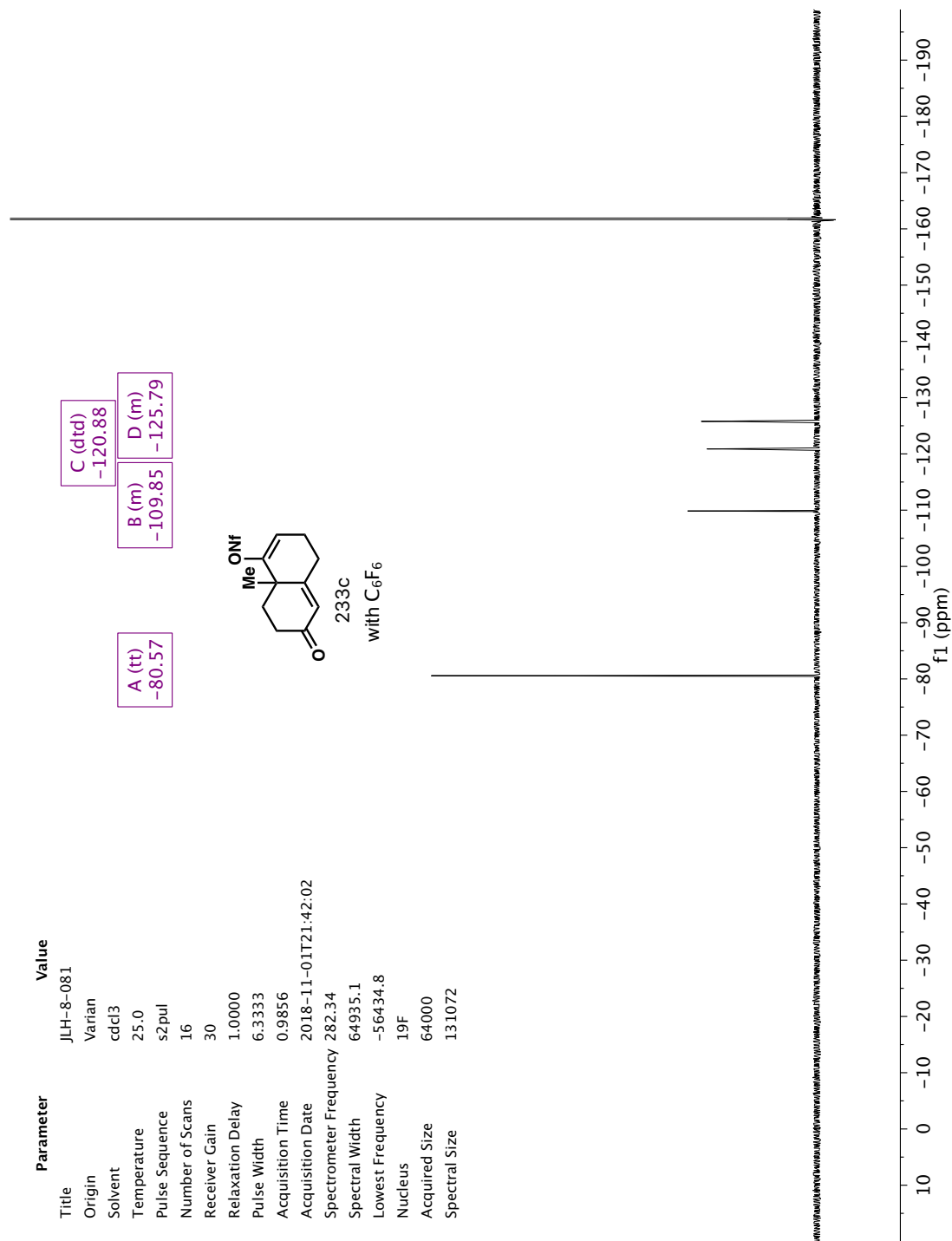


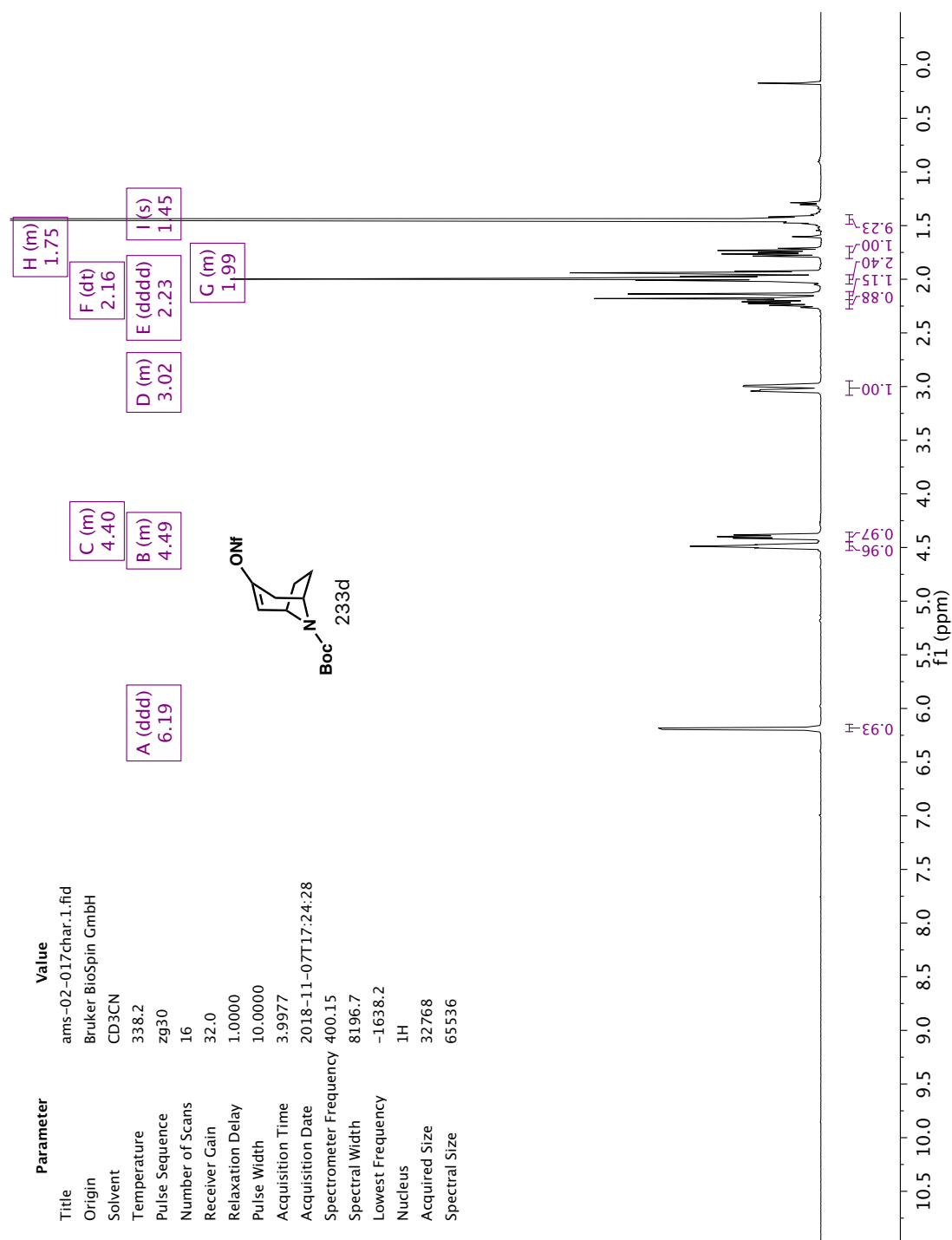


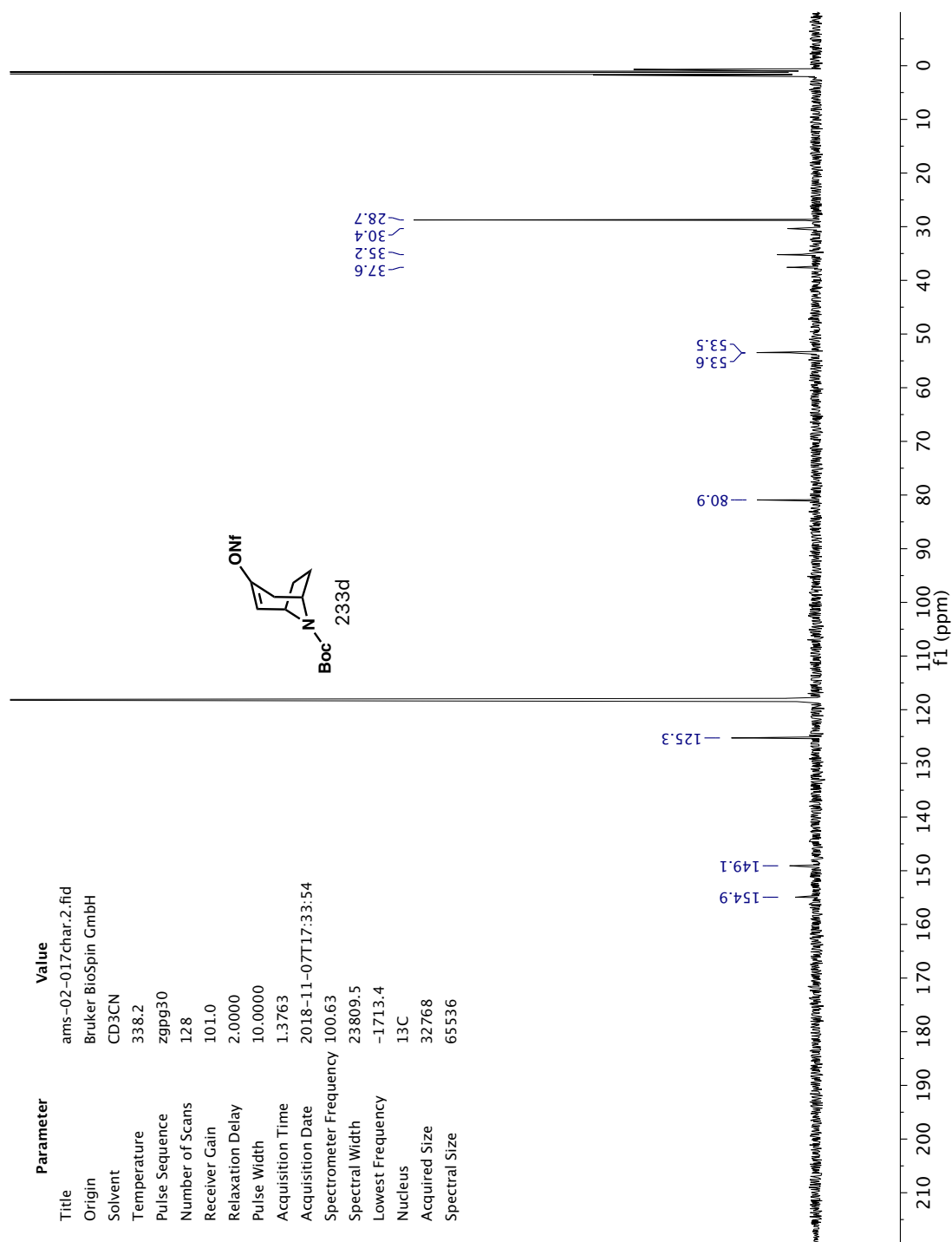


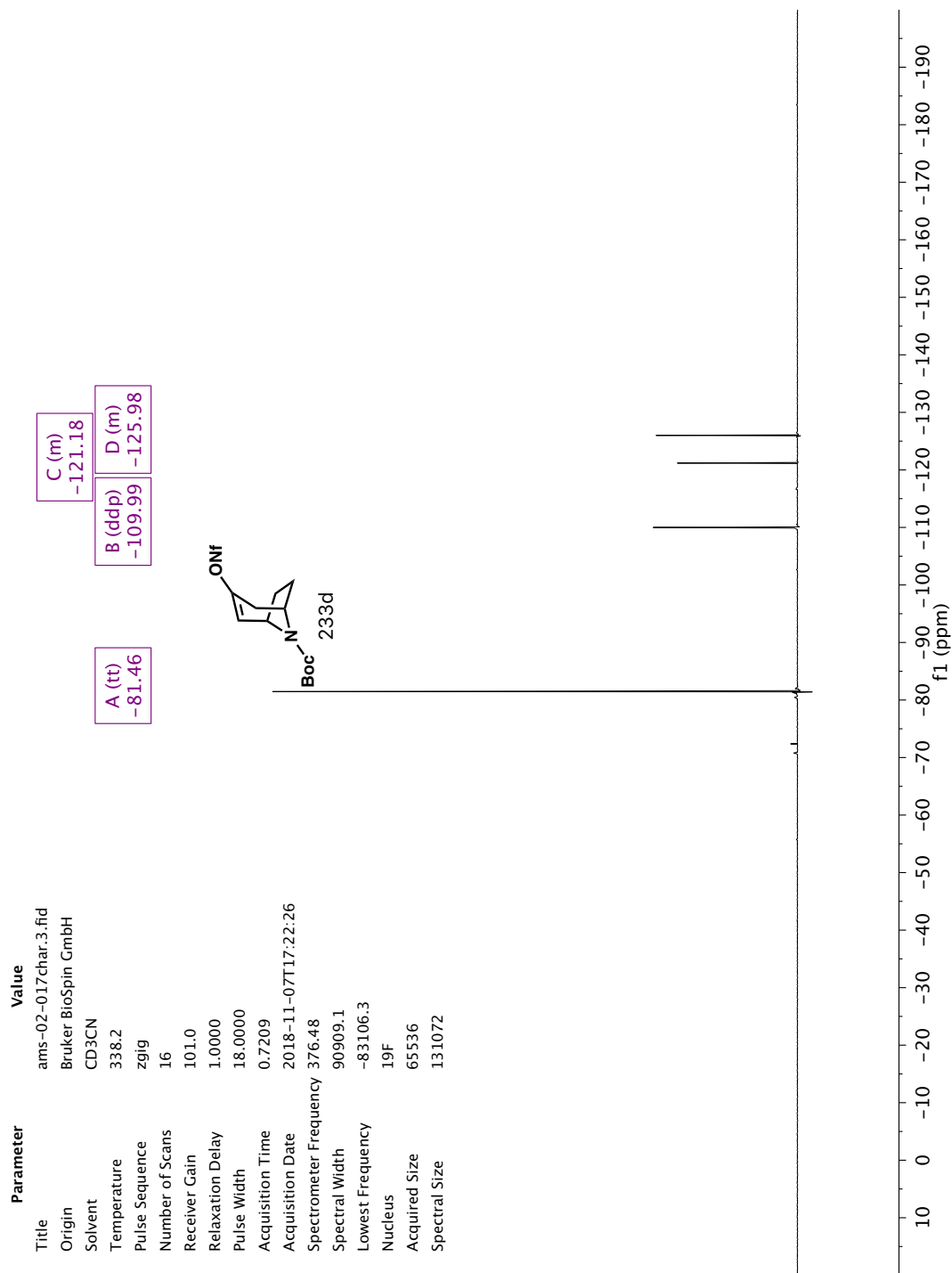


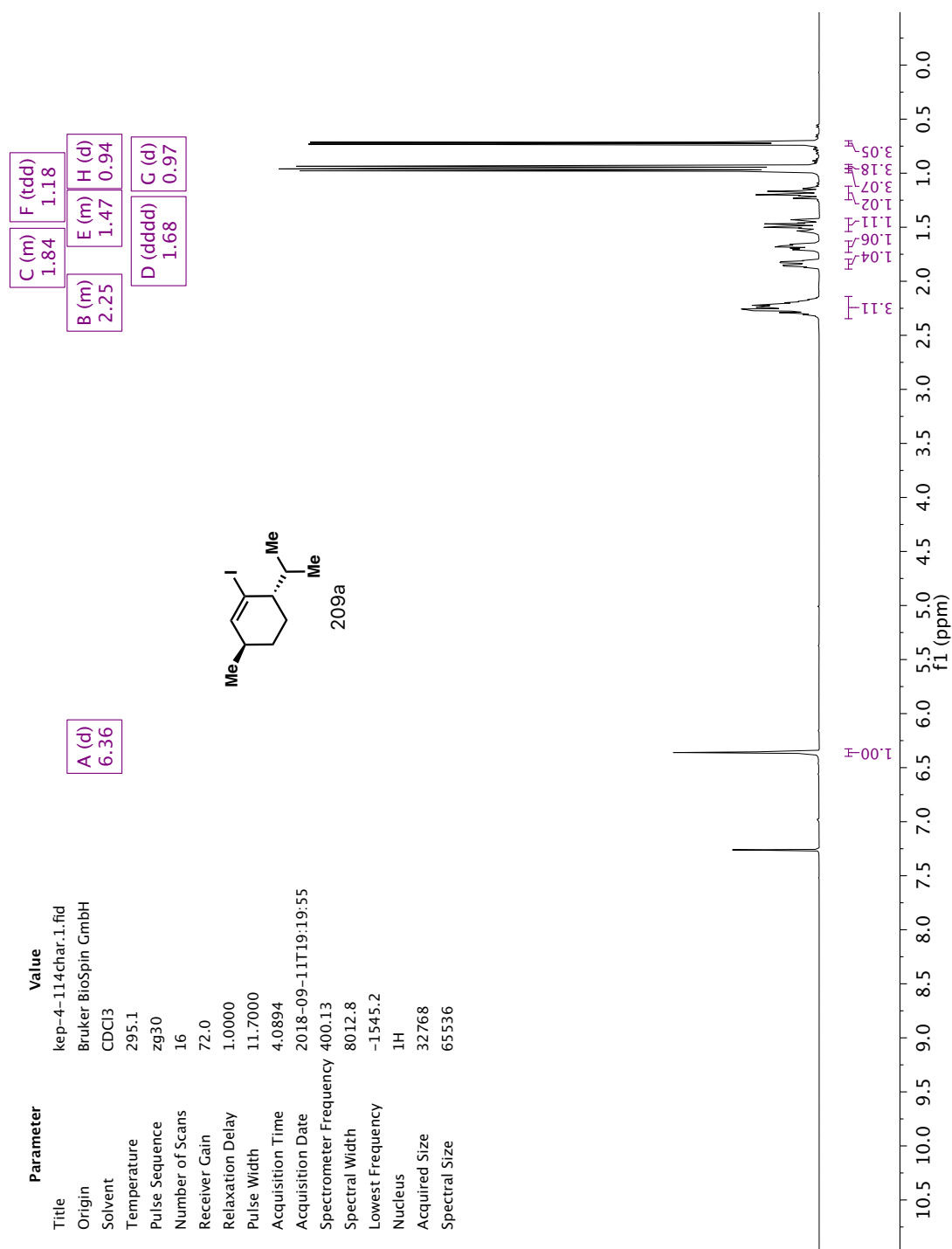


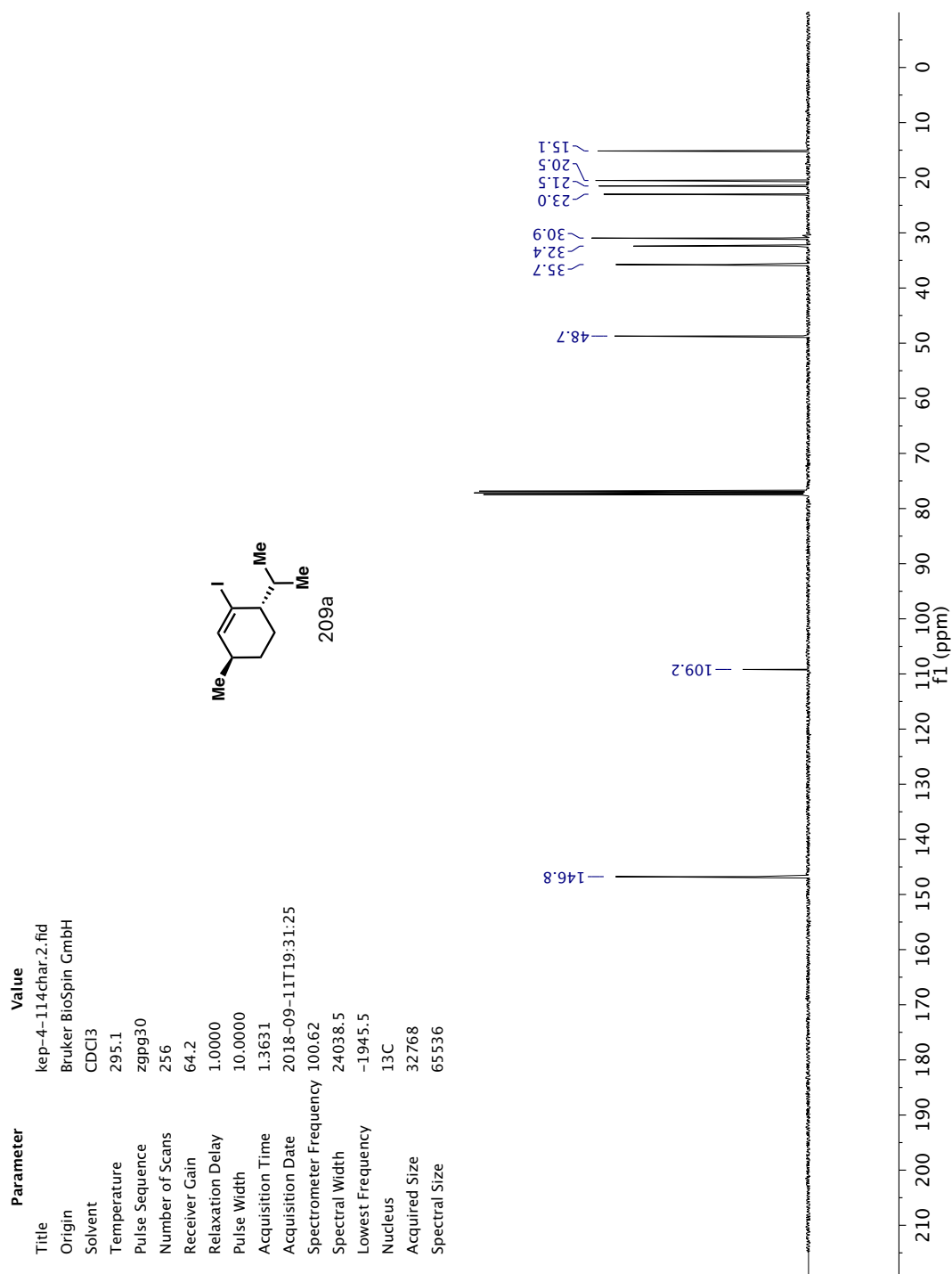


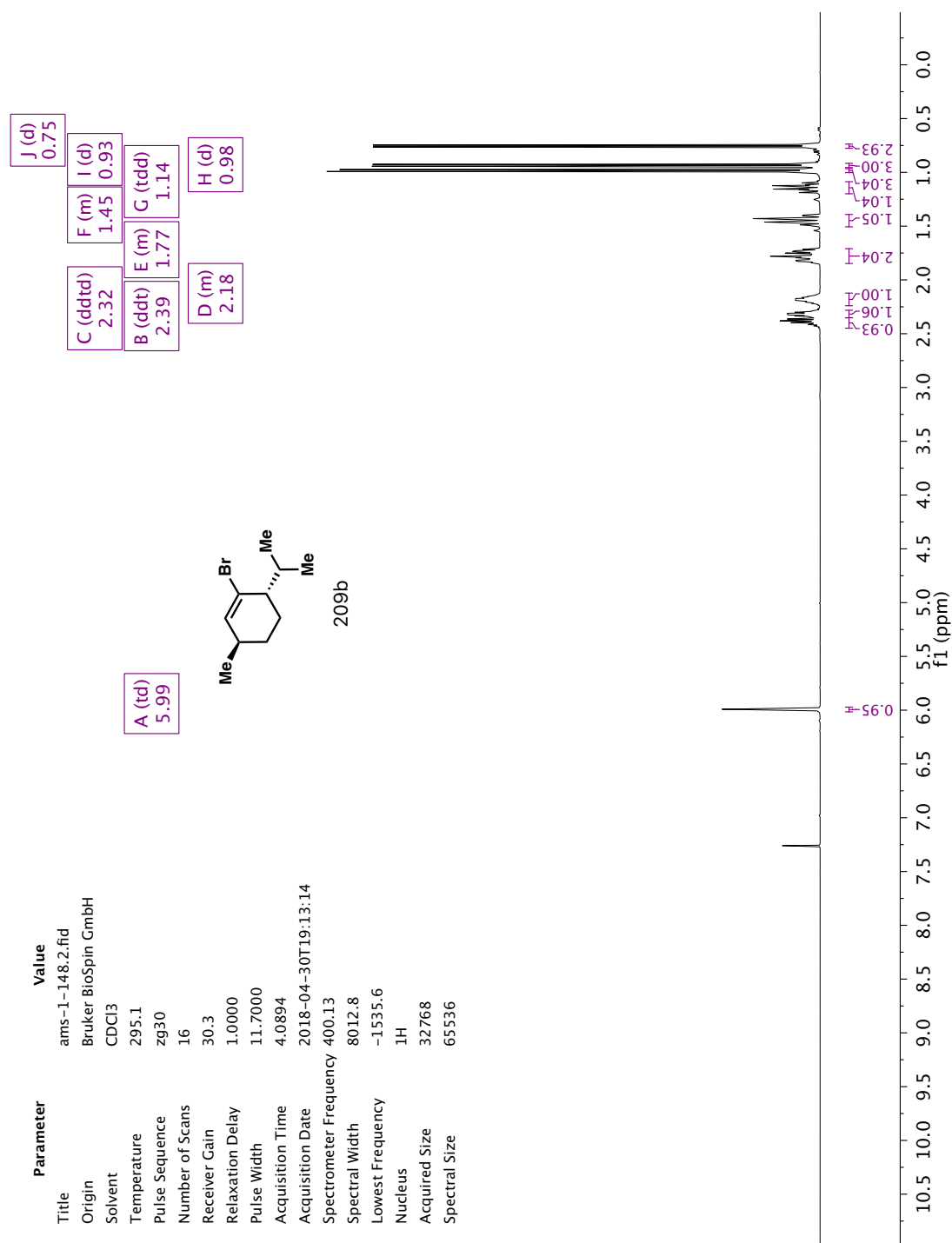


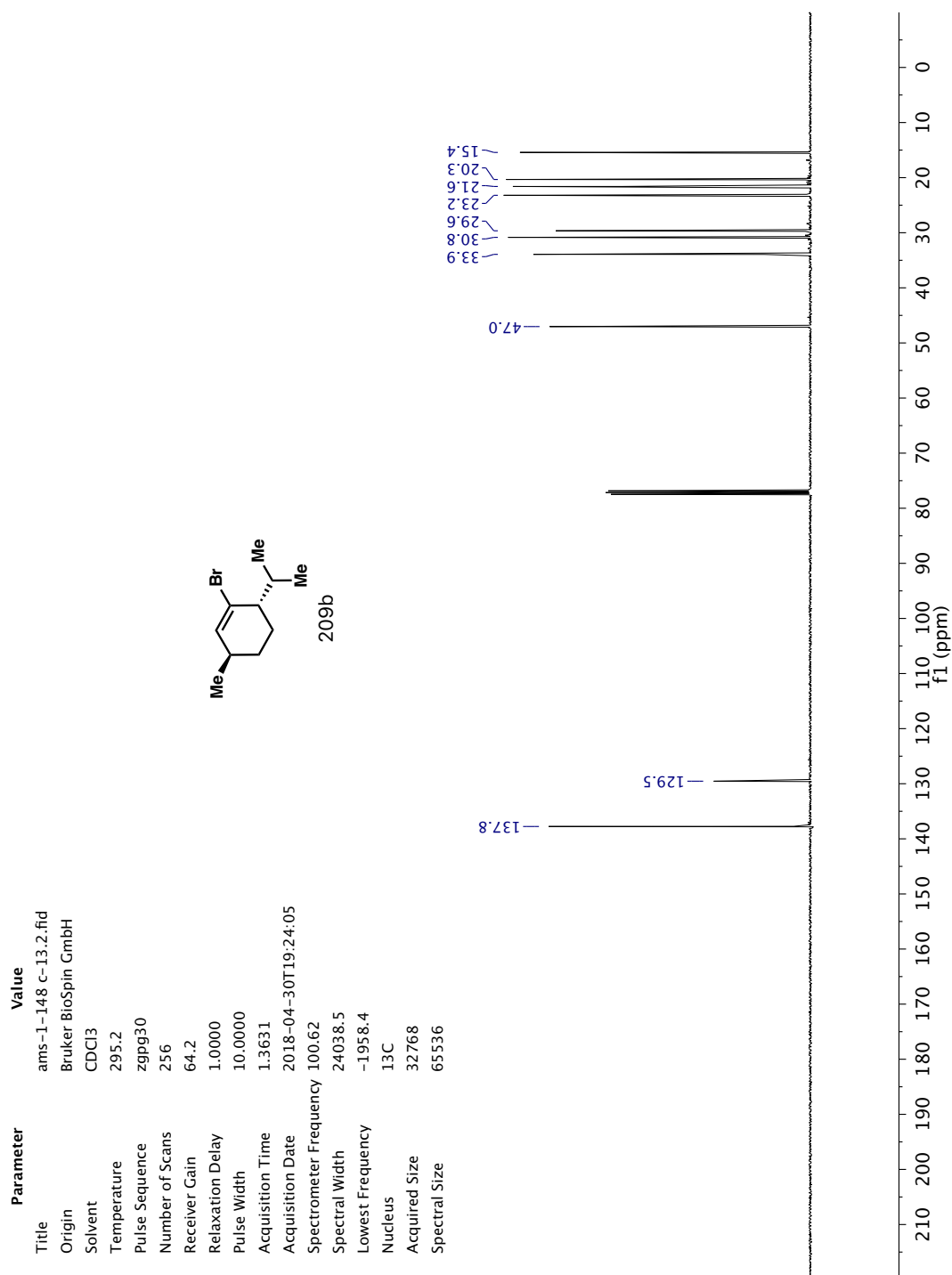


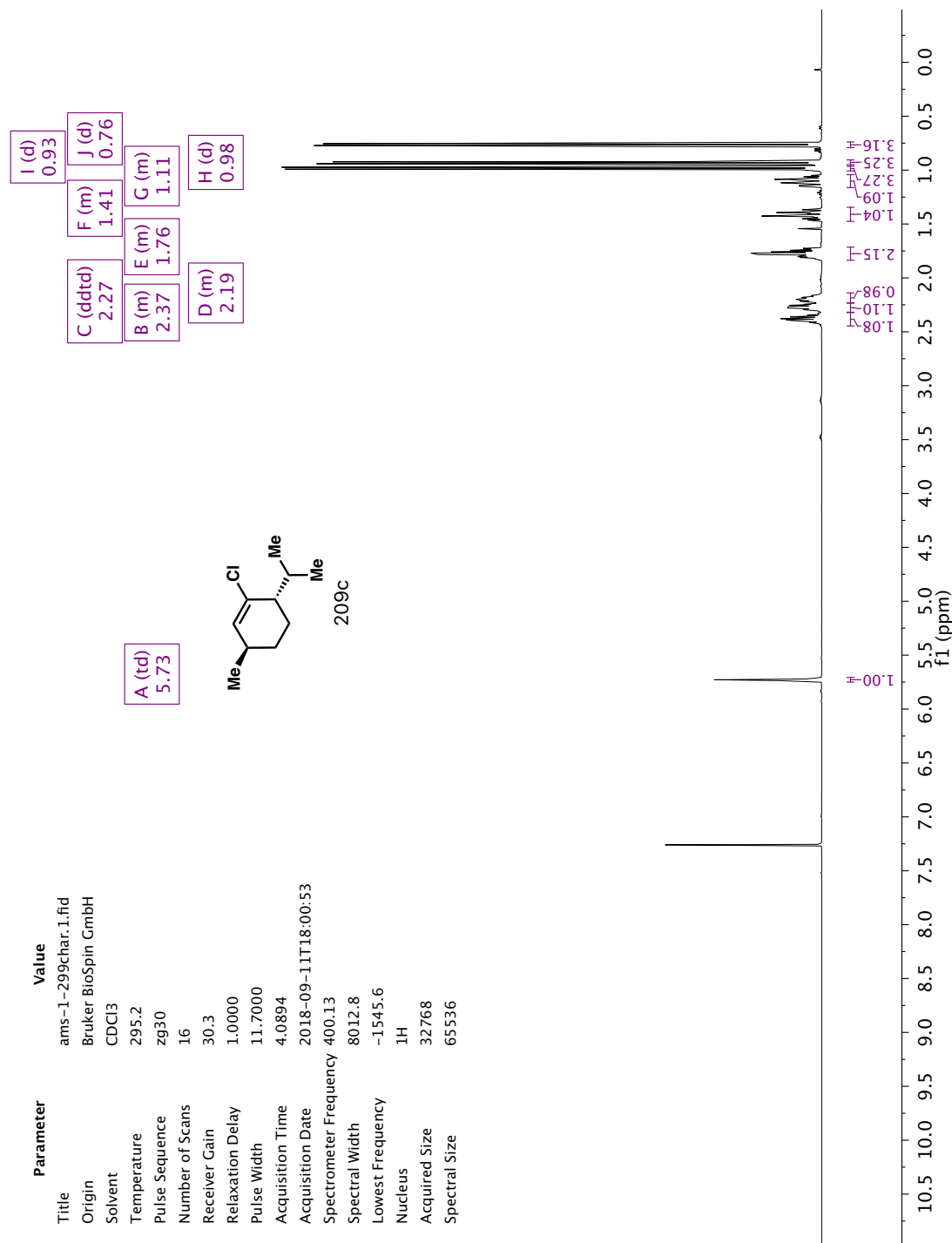


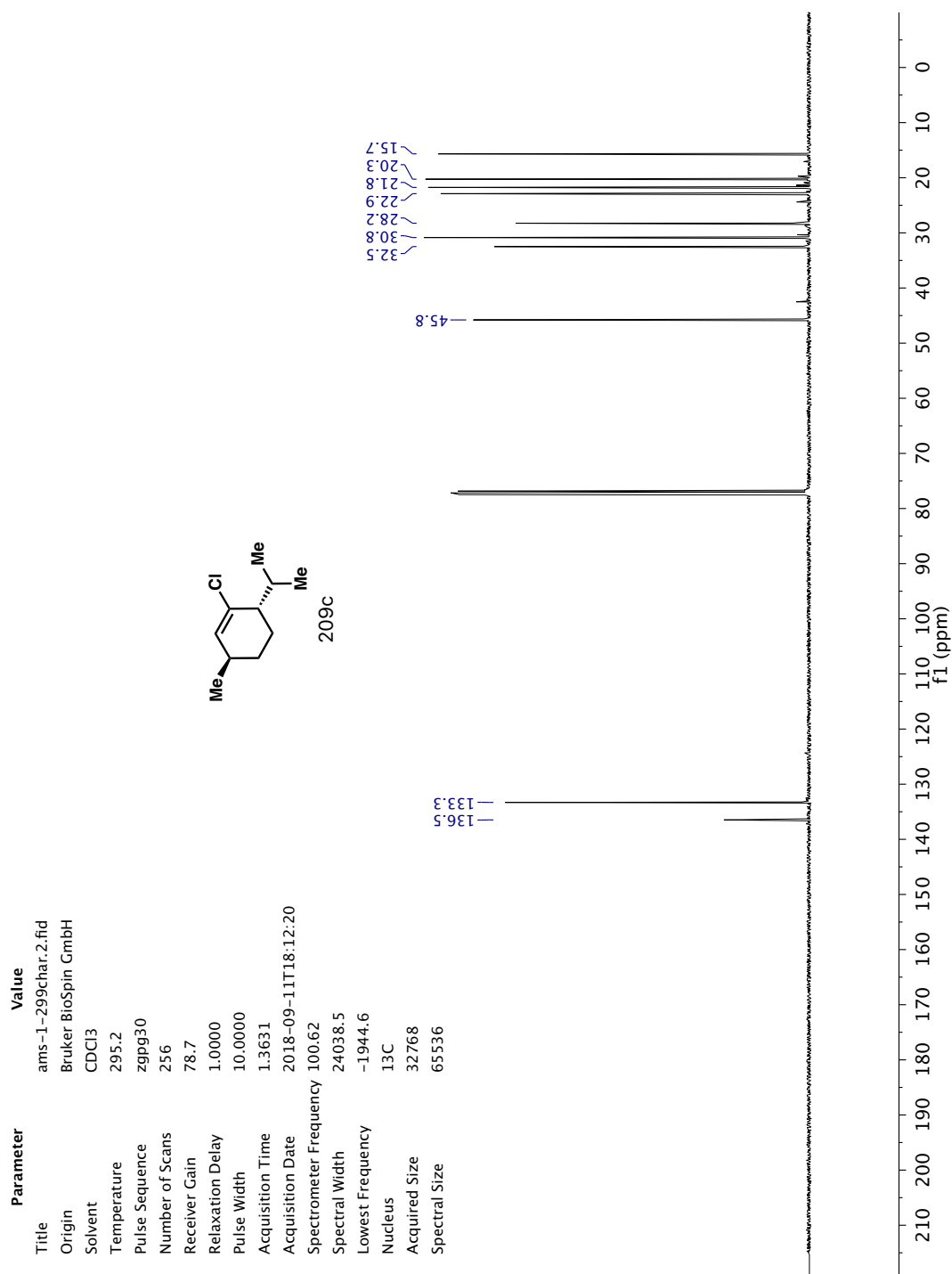


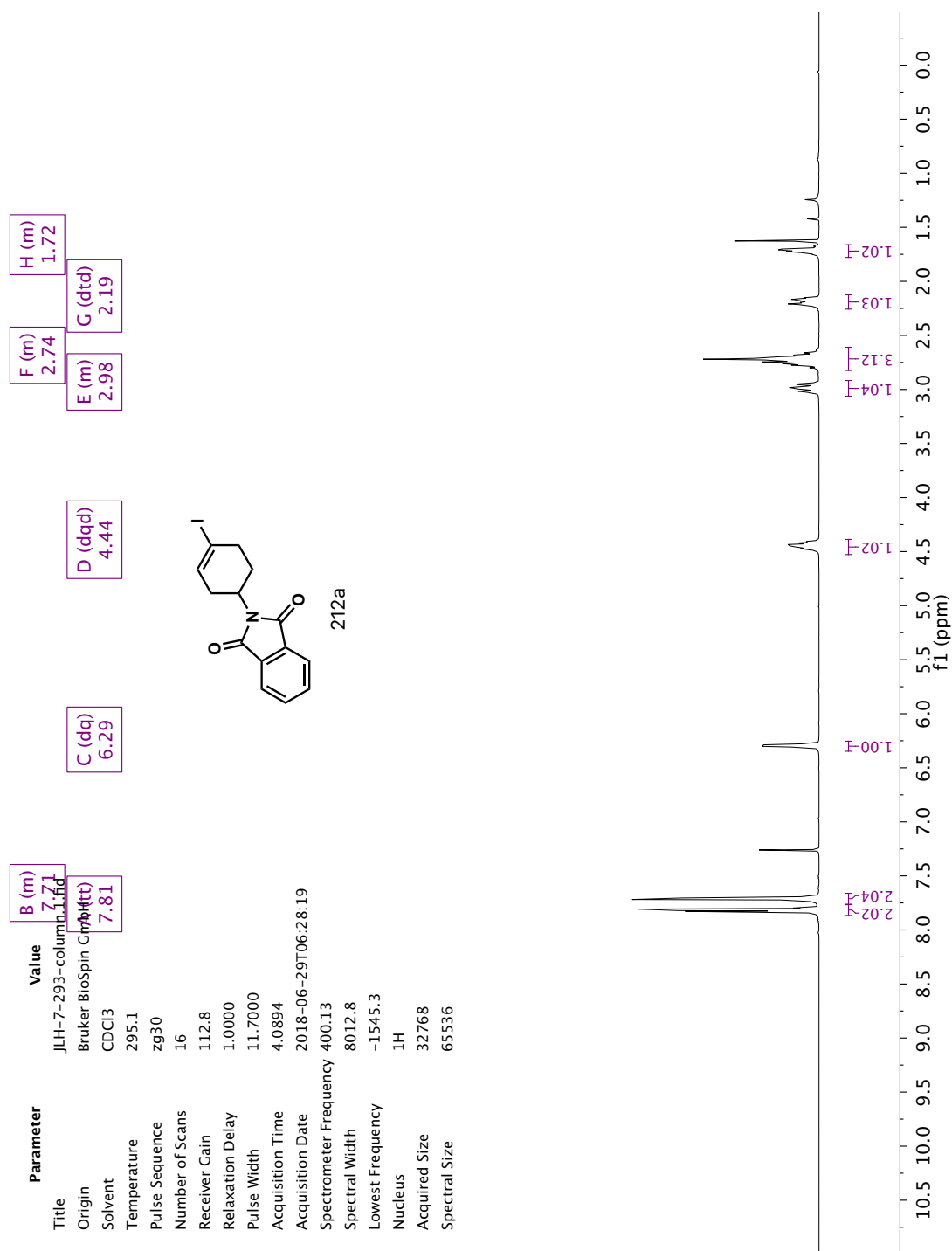




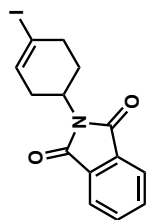




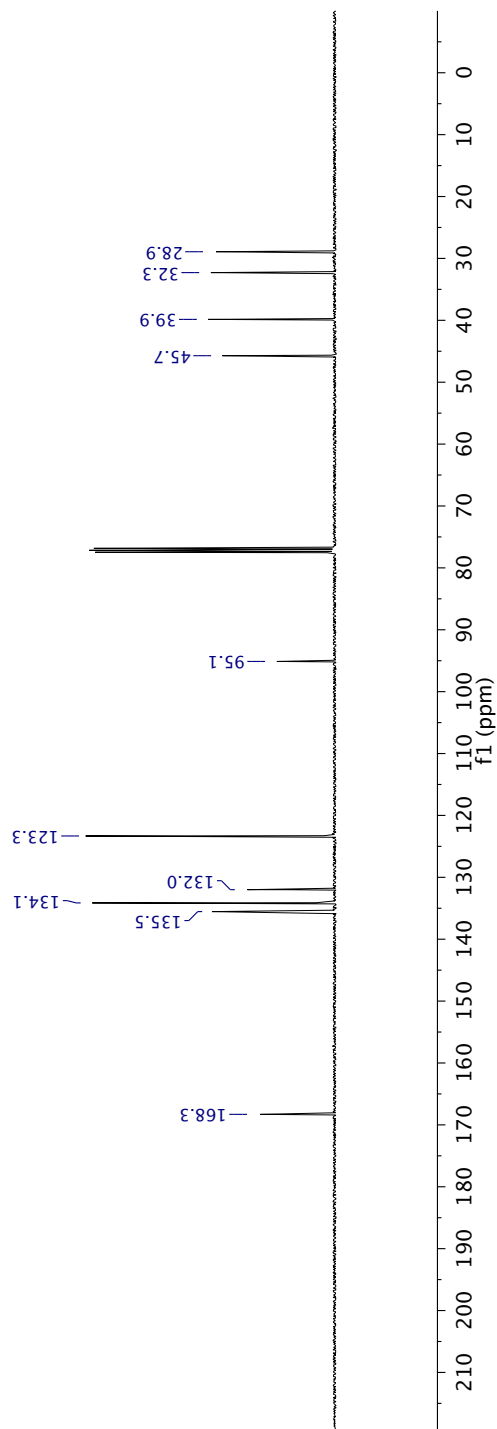


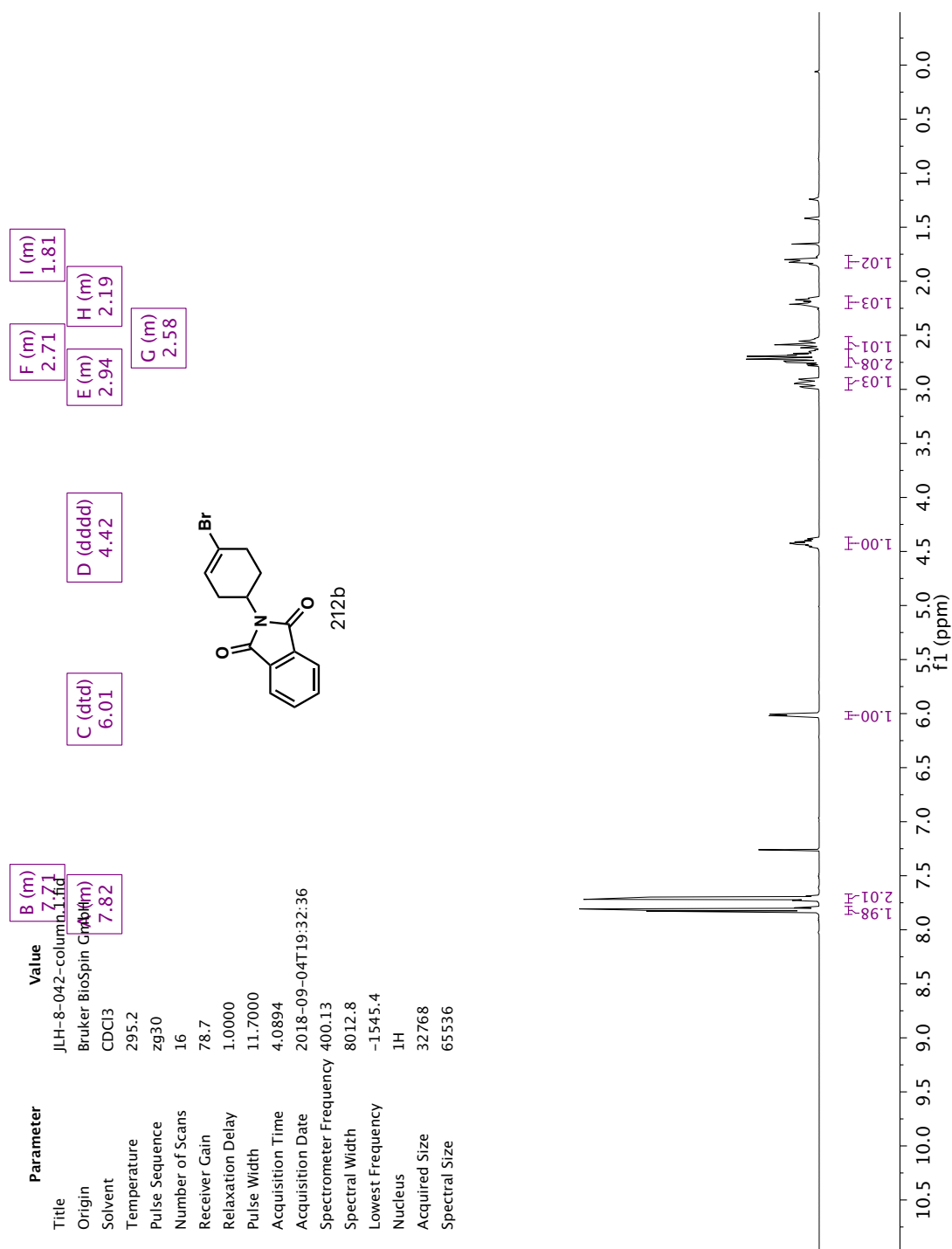


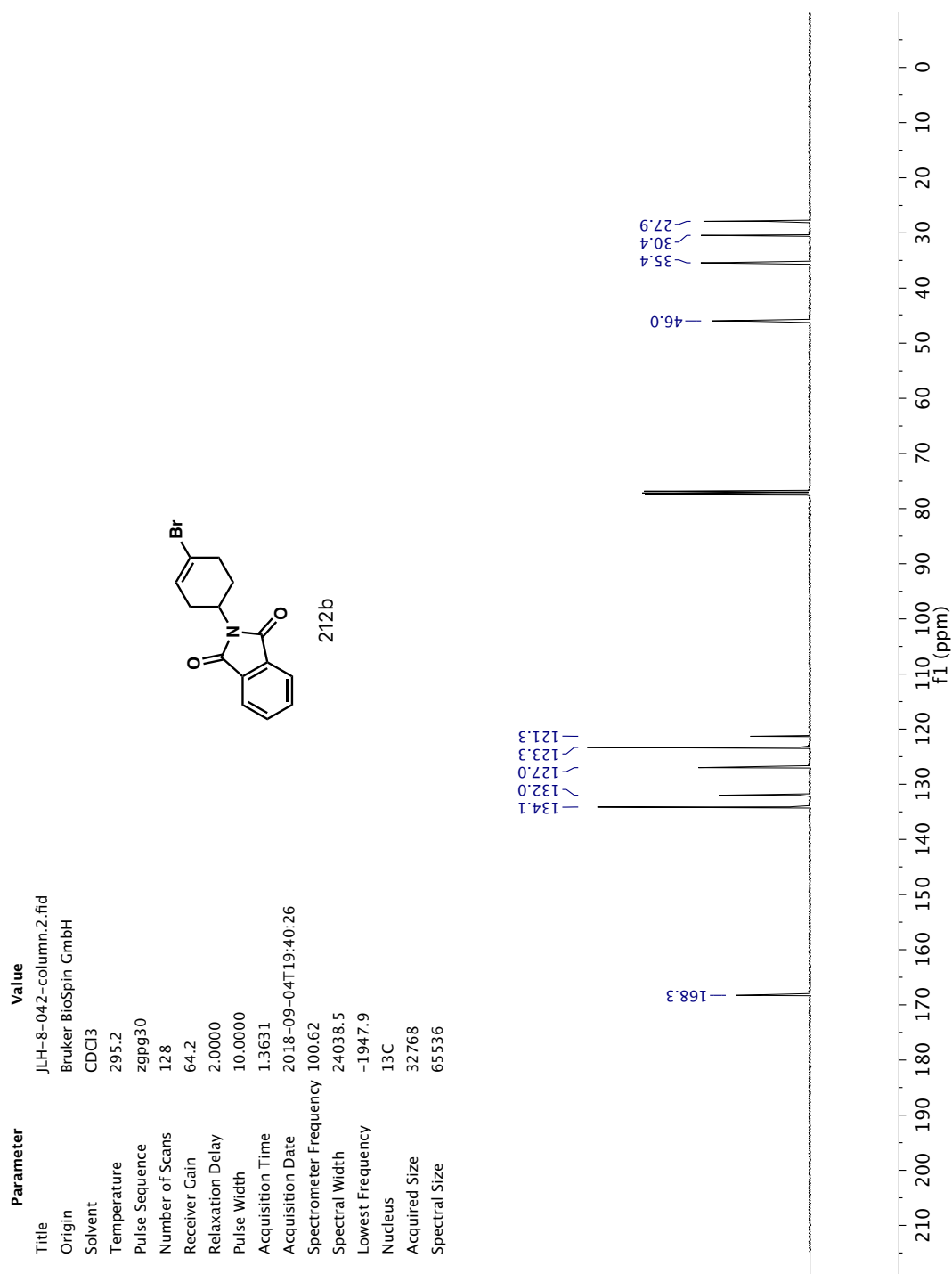
Parameter	Value
Title	JLH-7-293-column.2.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl ₃
Temperature	295.2
Pulse Sequence	zgpg30
Number of Scans	256
Receiver Gain	78.7
Relaxation Delay	1.0000
Pulse Width	10.0000
Acquisition Time	1.3631
Acquisition Date	2018-06-29T06:39:48
Spectrometer Frequency	100.62
Spectral Width	24038.5
Lowest Frequency	-1947.6
Nucleus	¹³ C
Acquired Size	32768
Spectral Size	65536

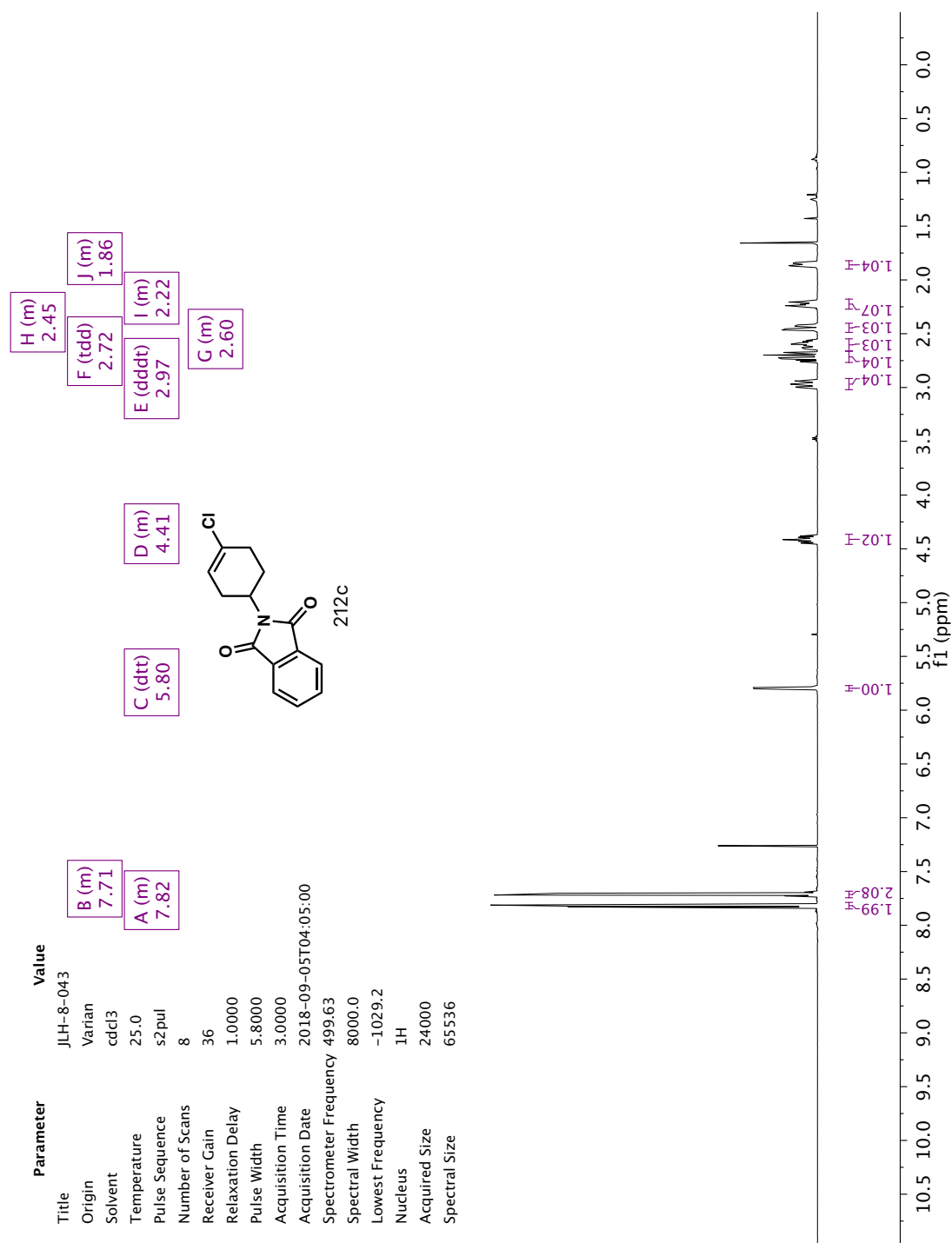


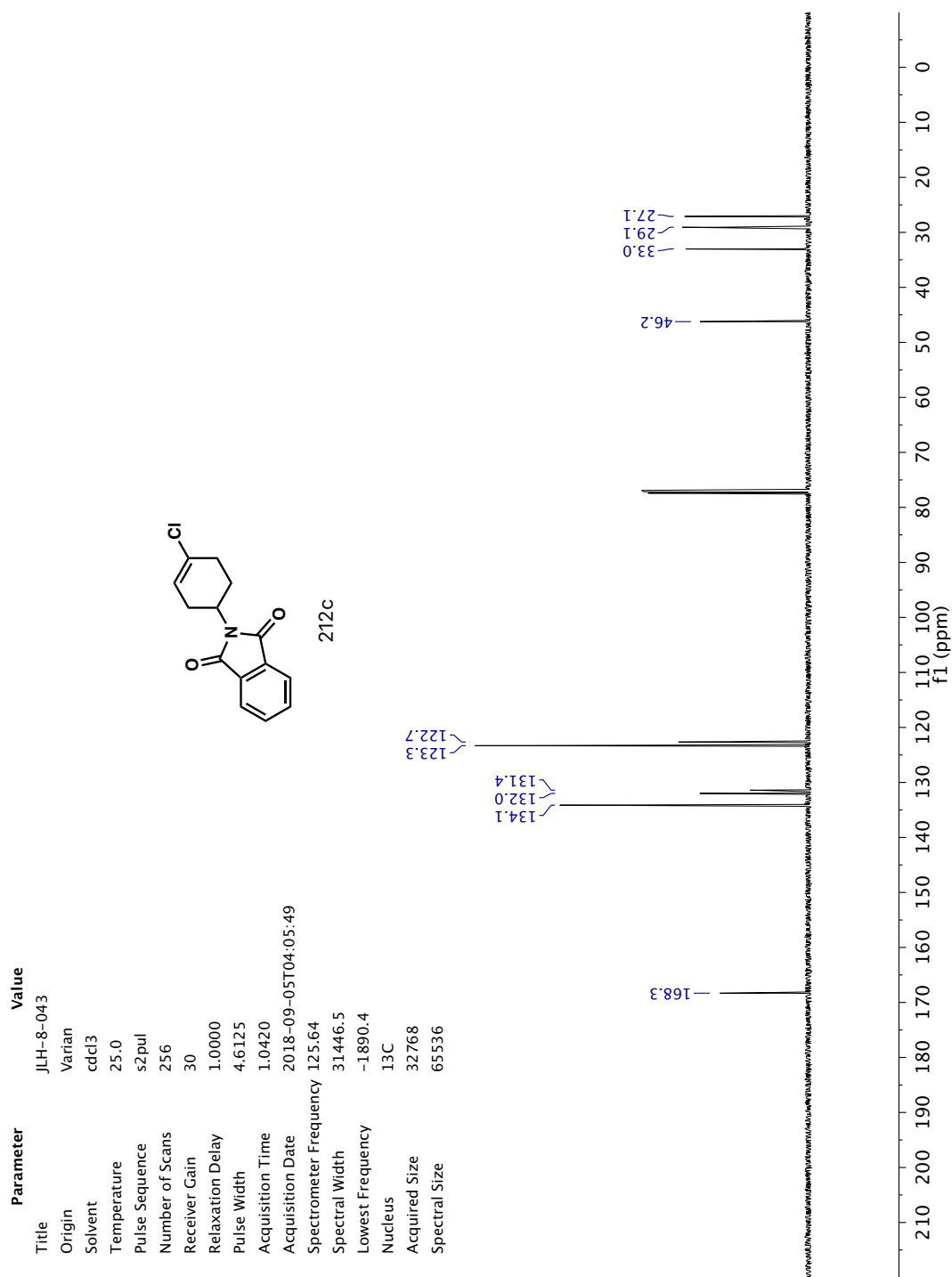
212a

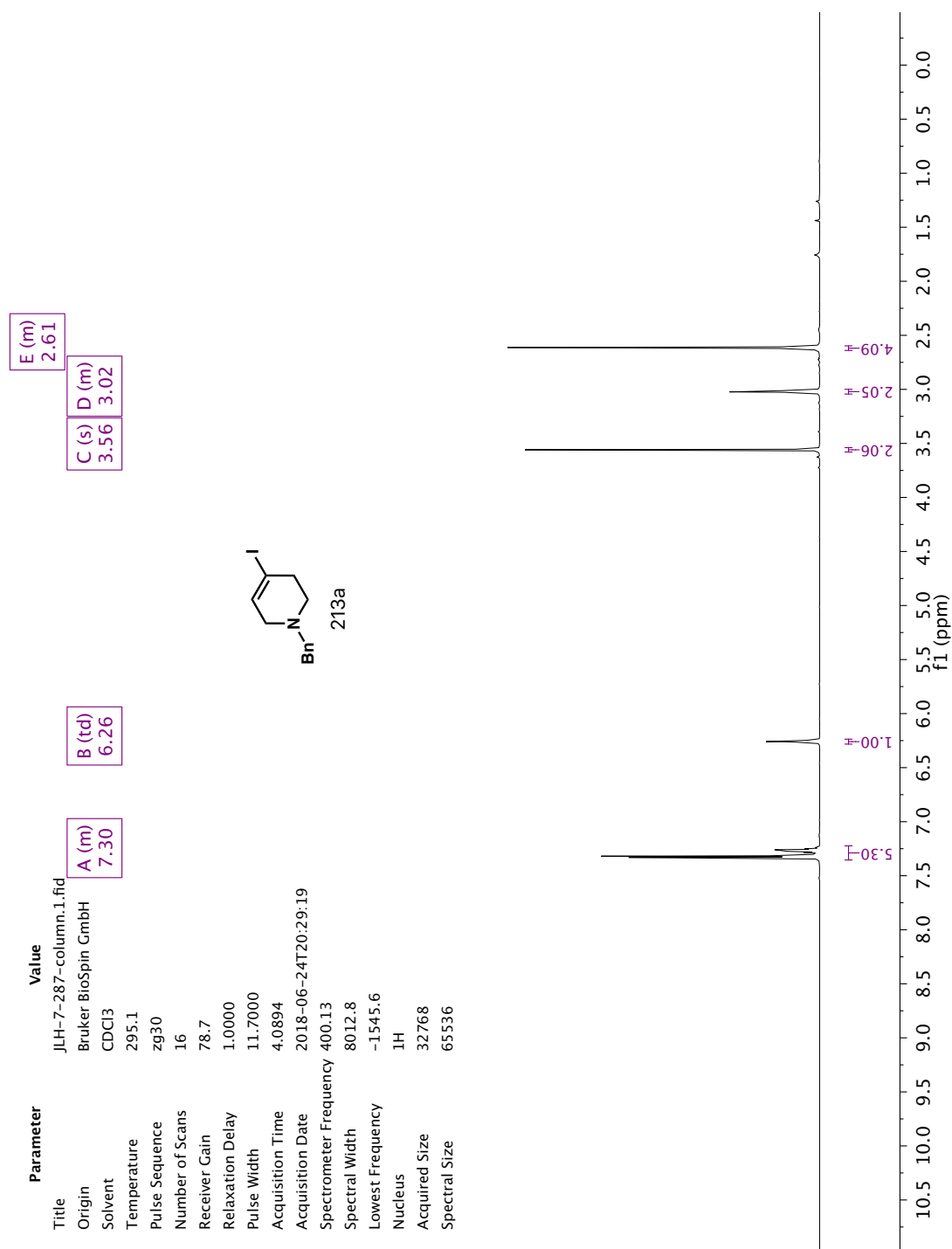


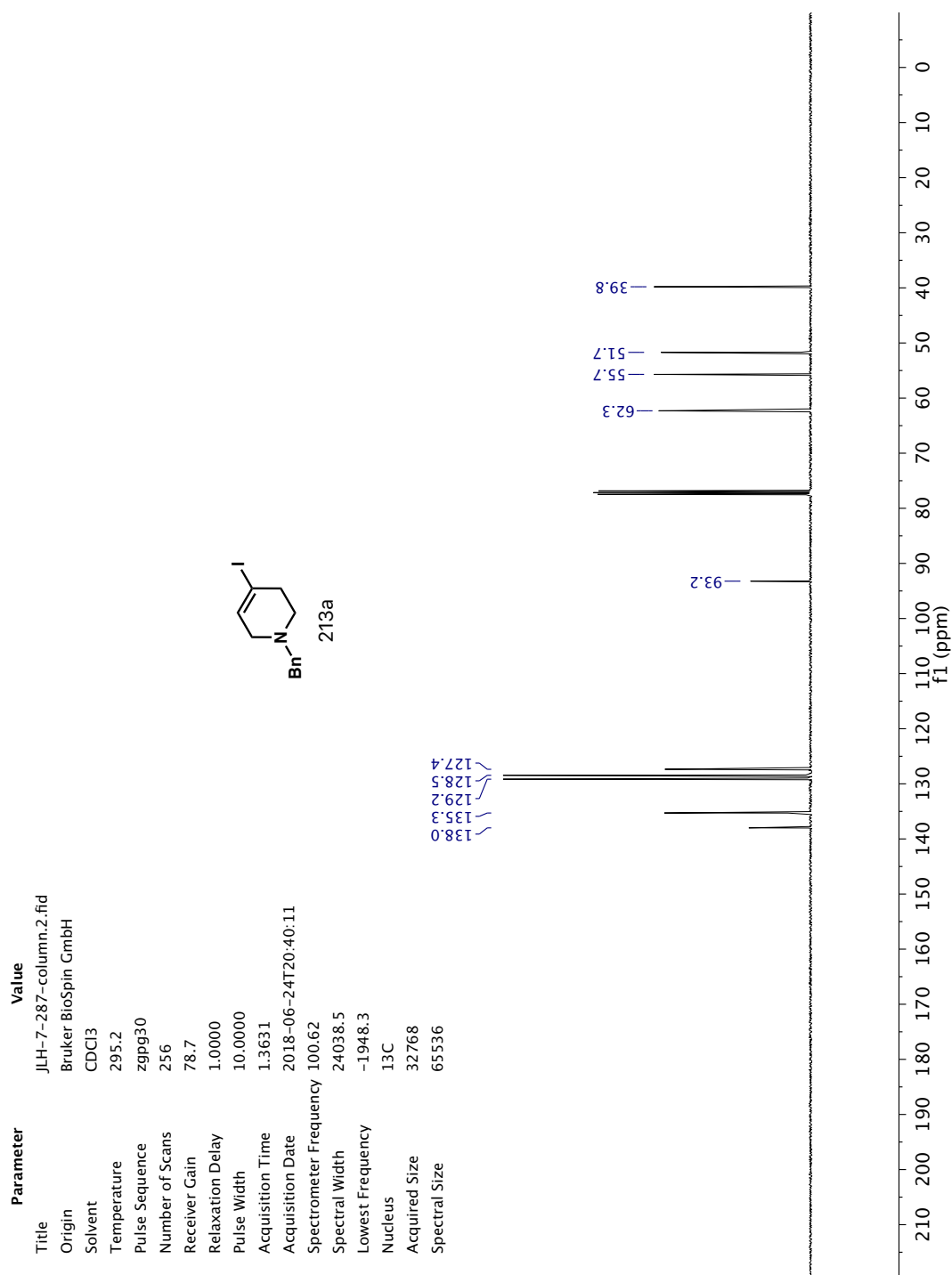


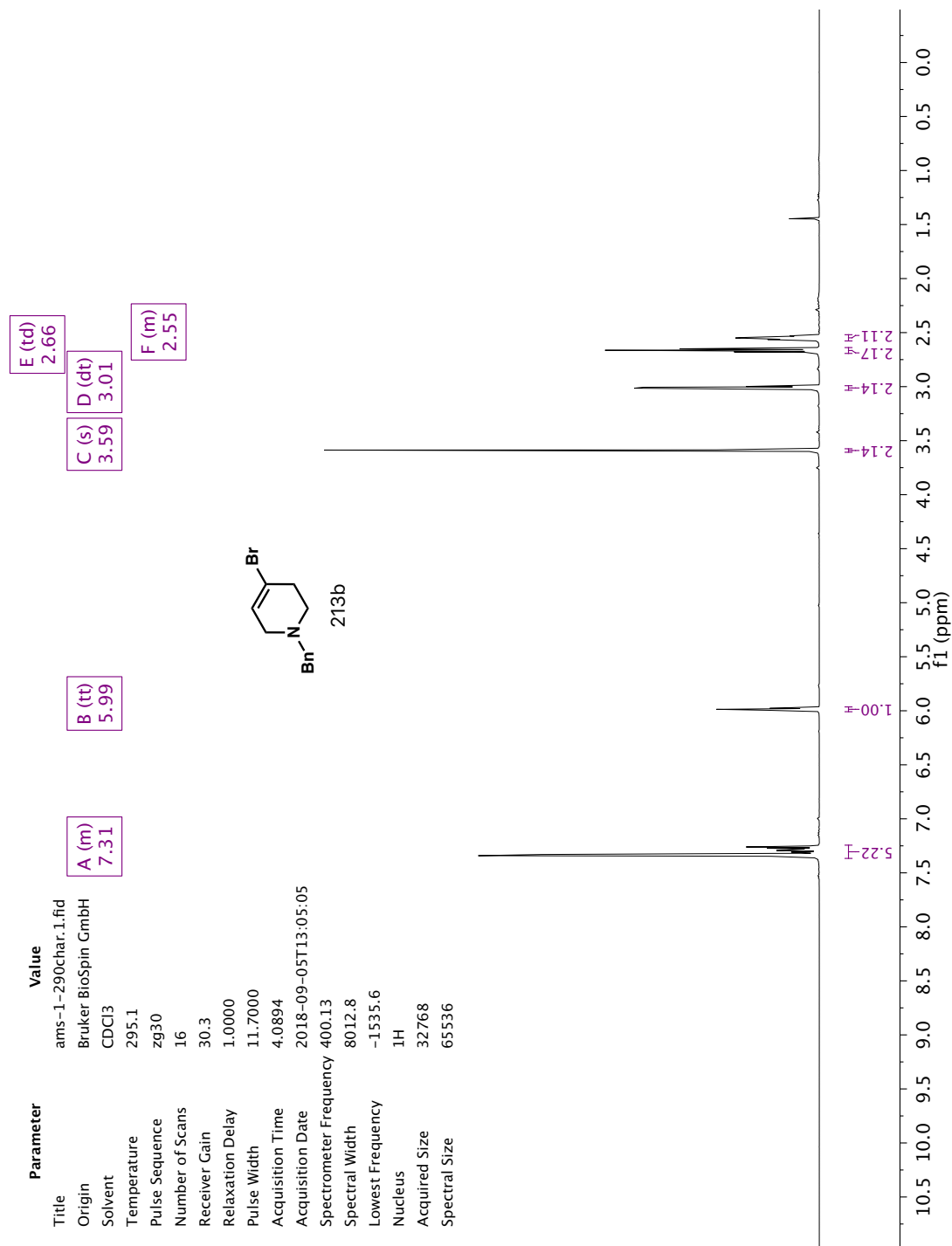


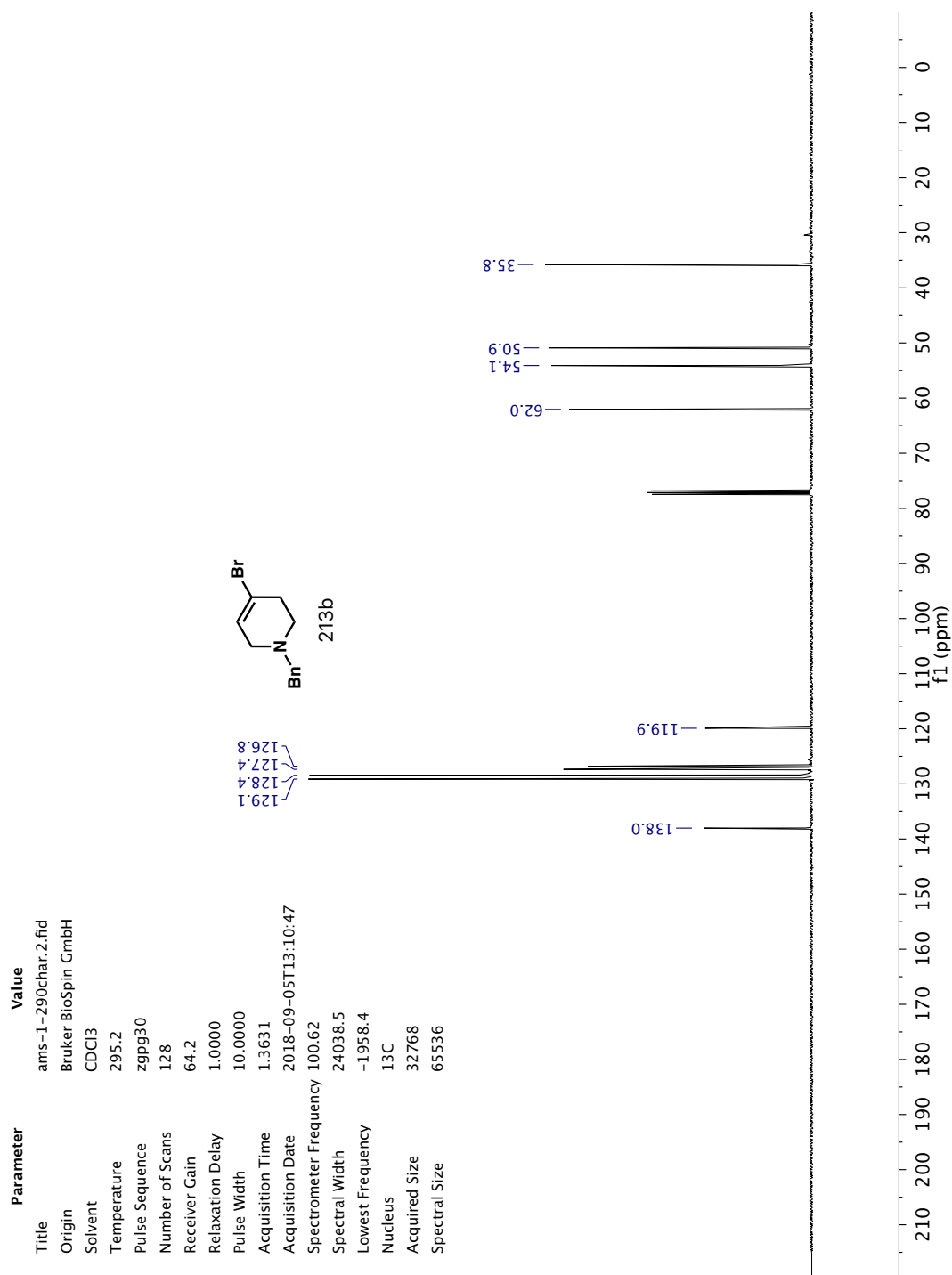


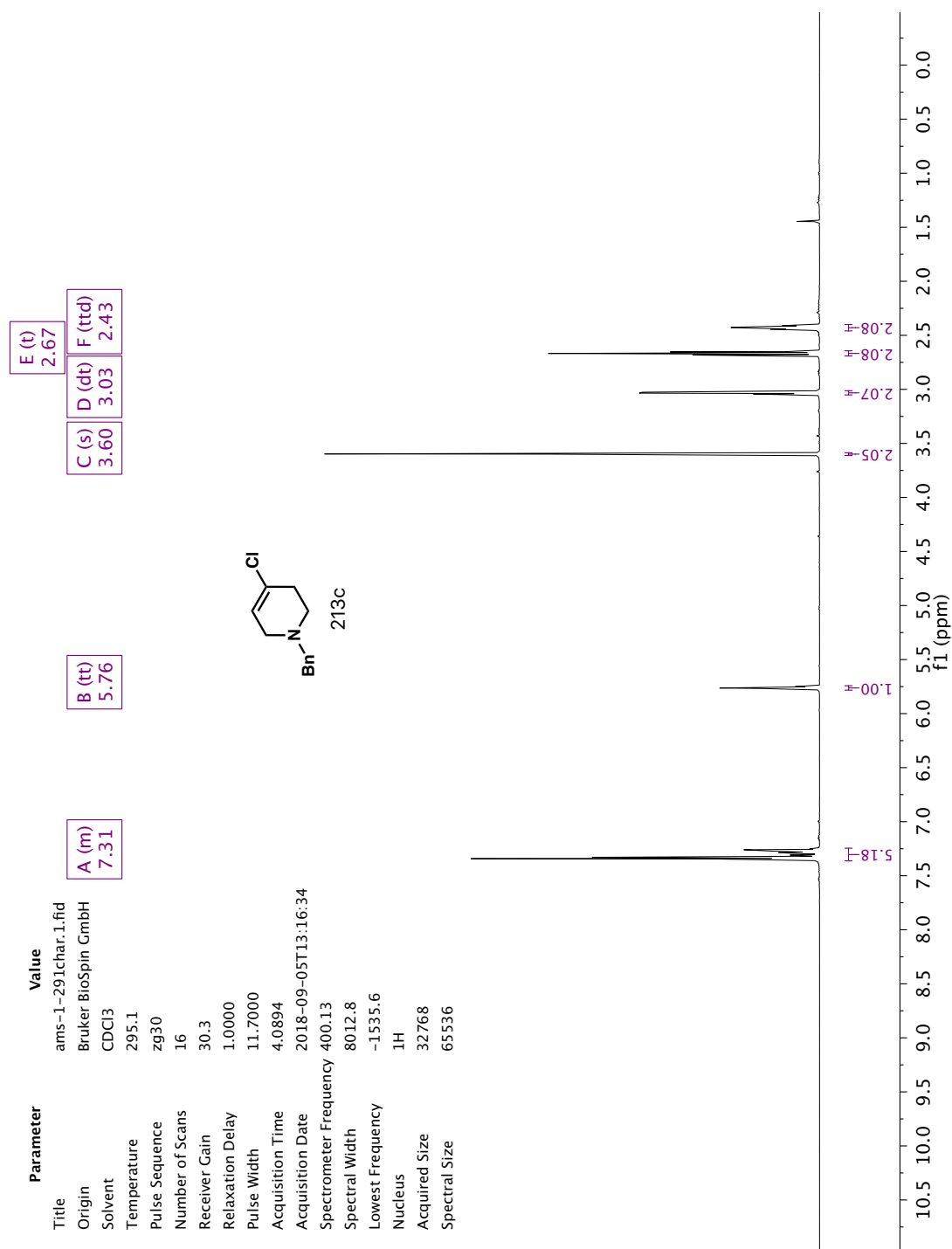


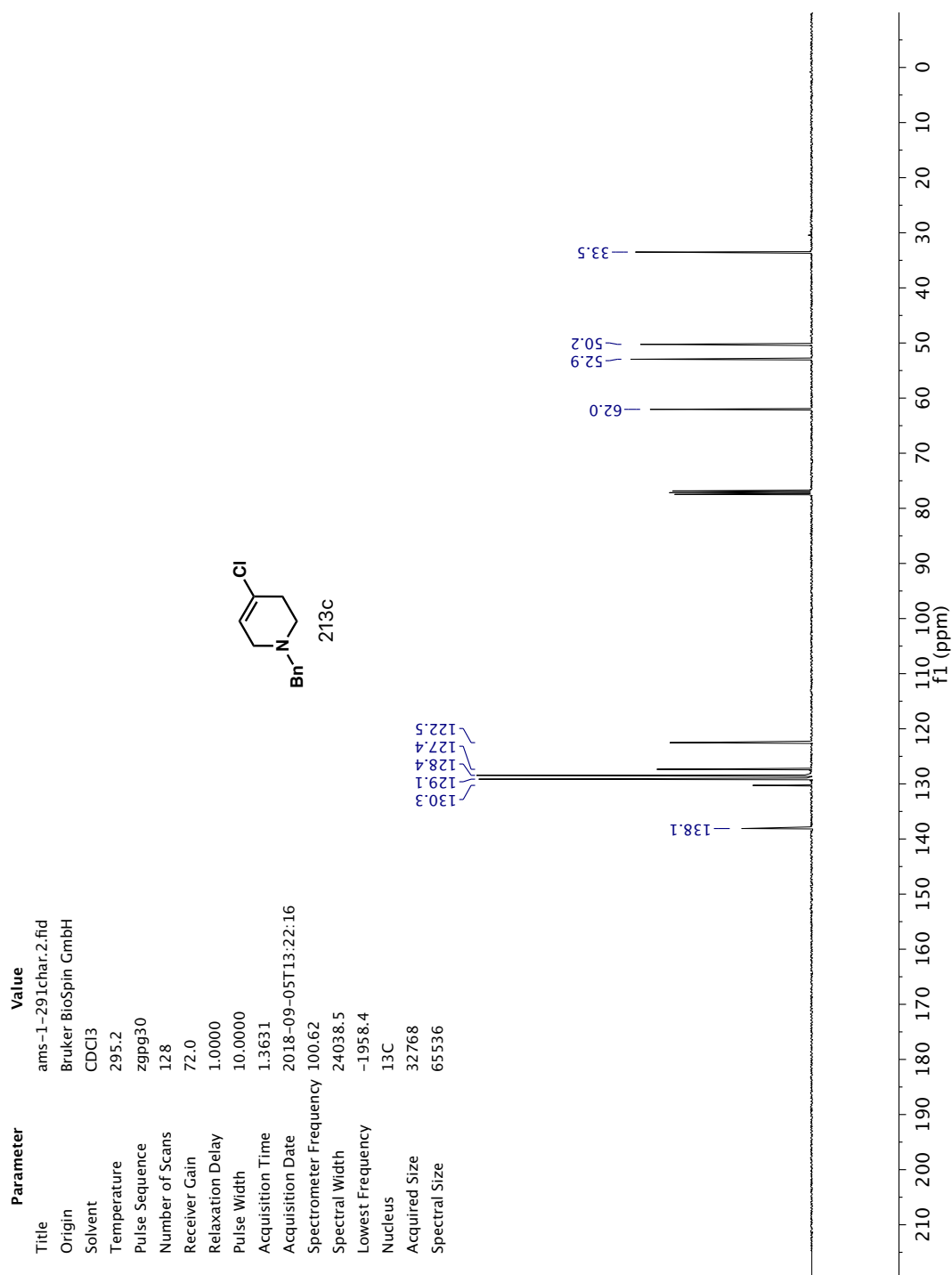


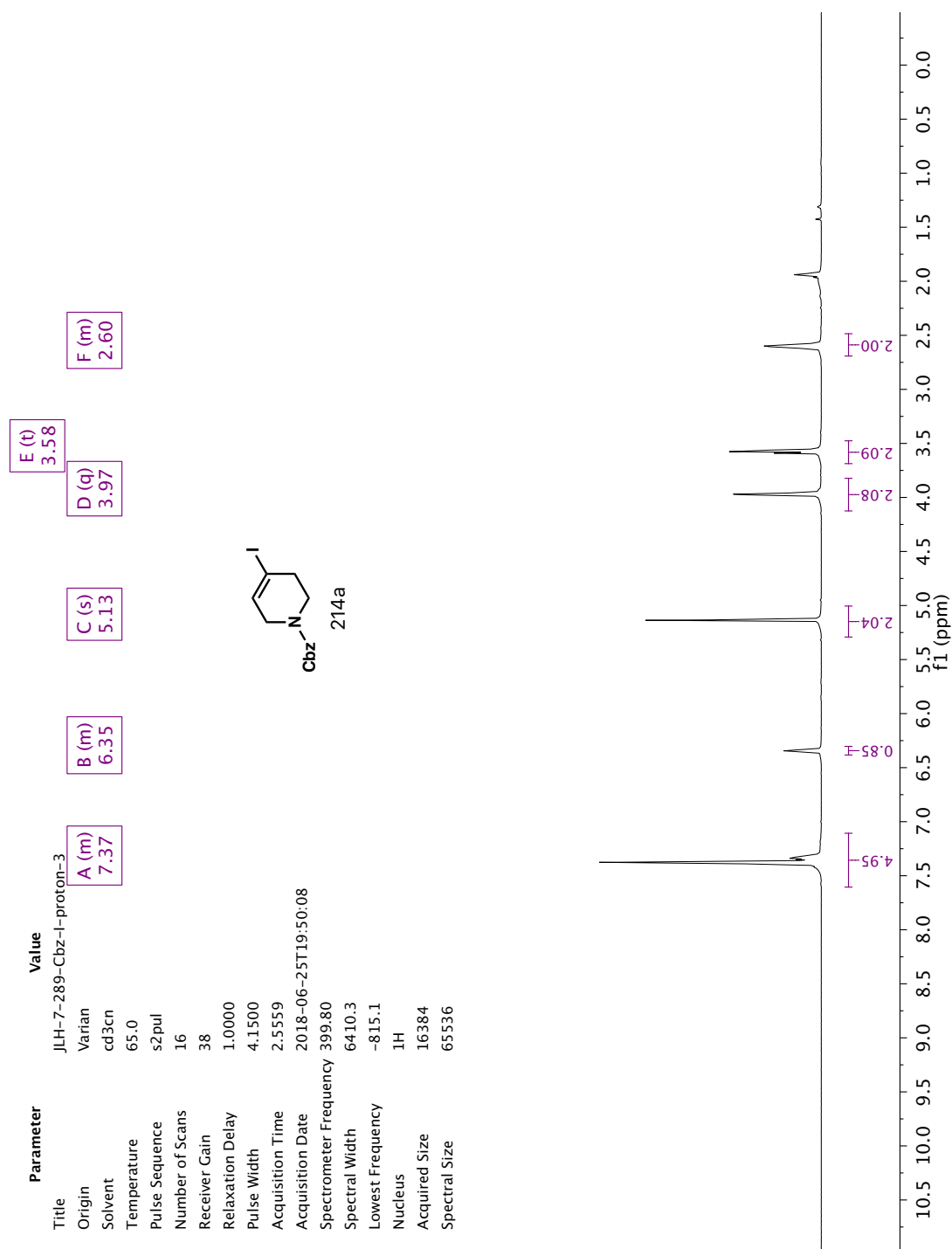


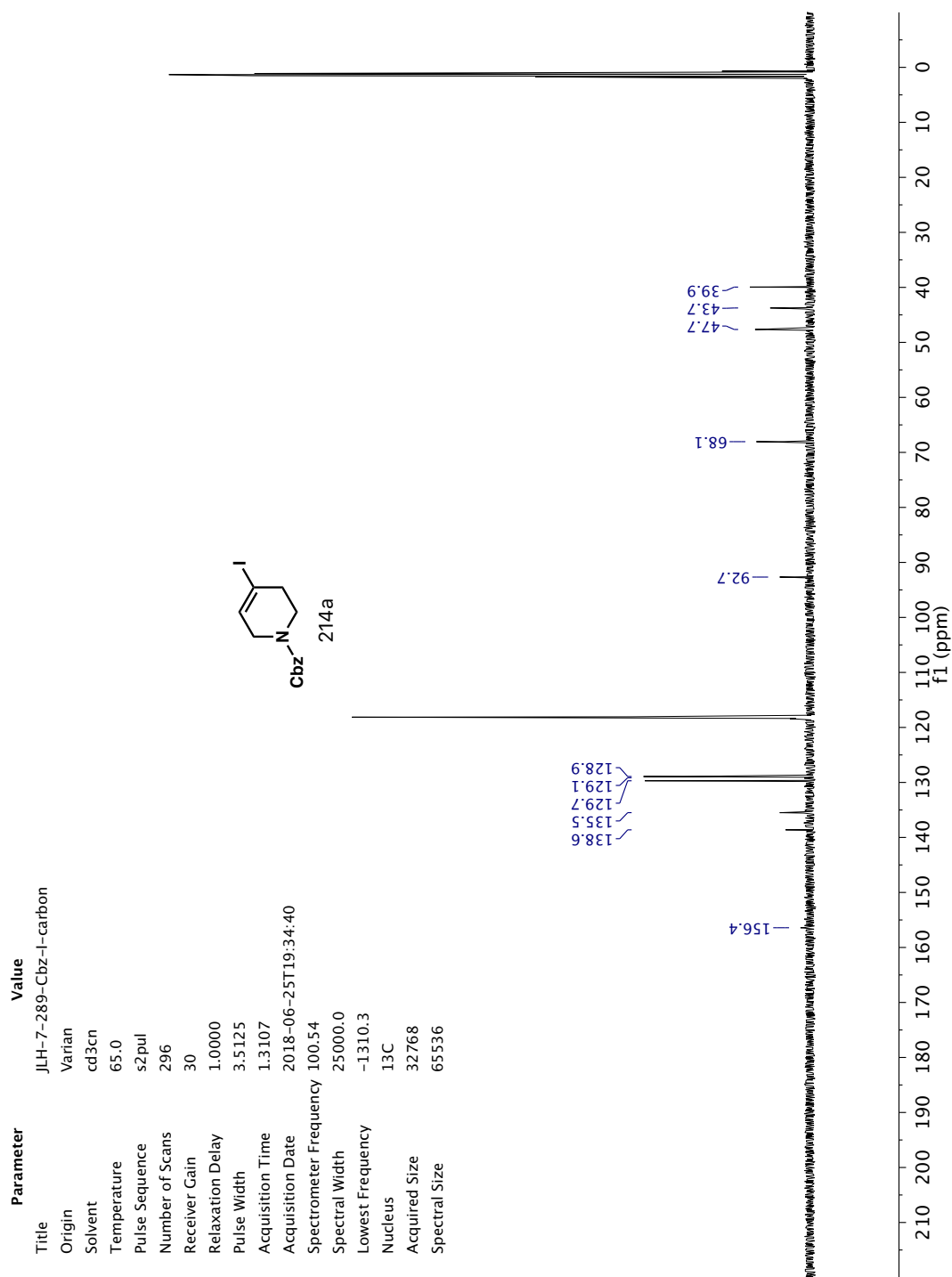


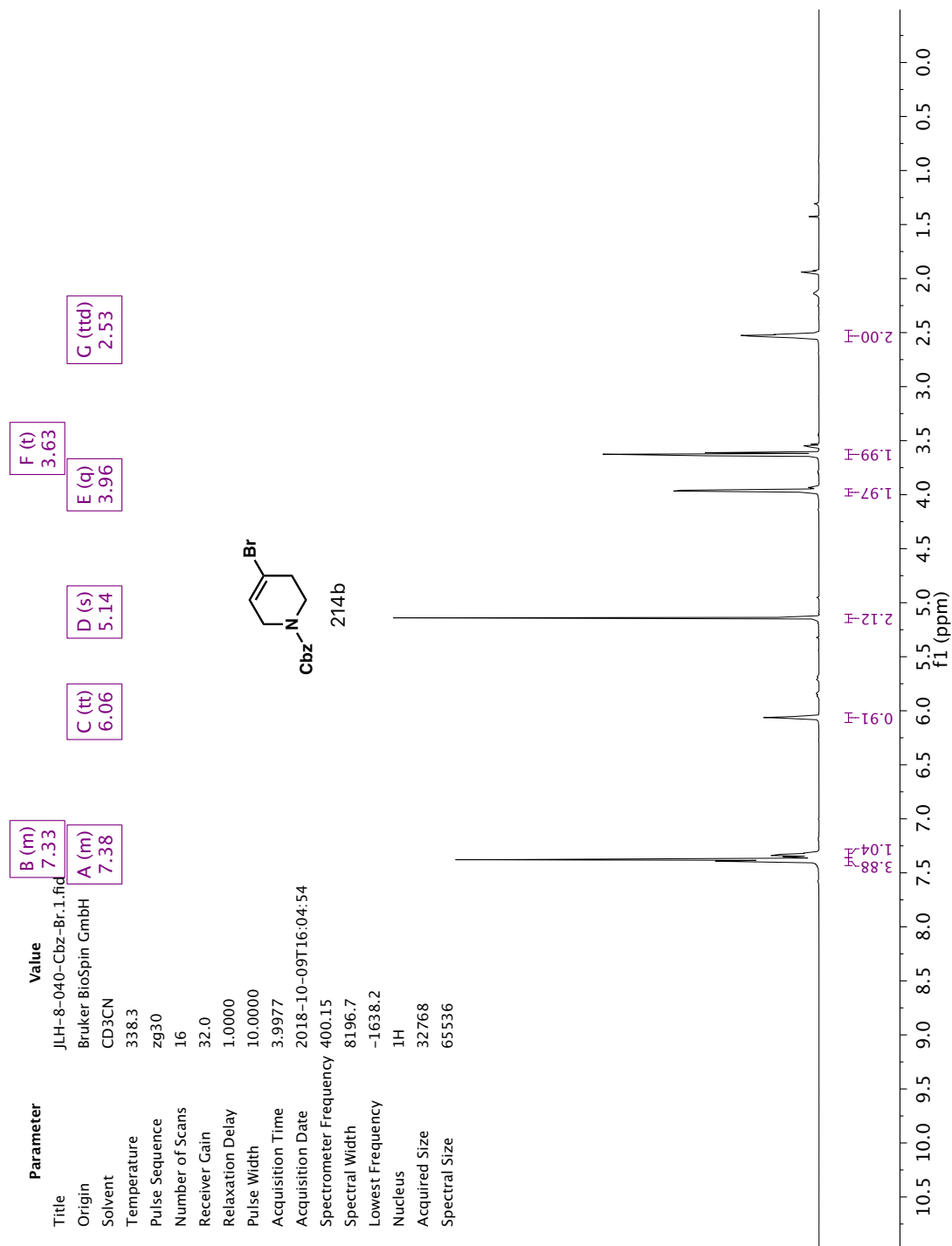


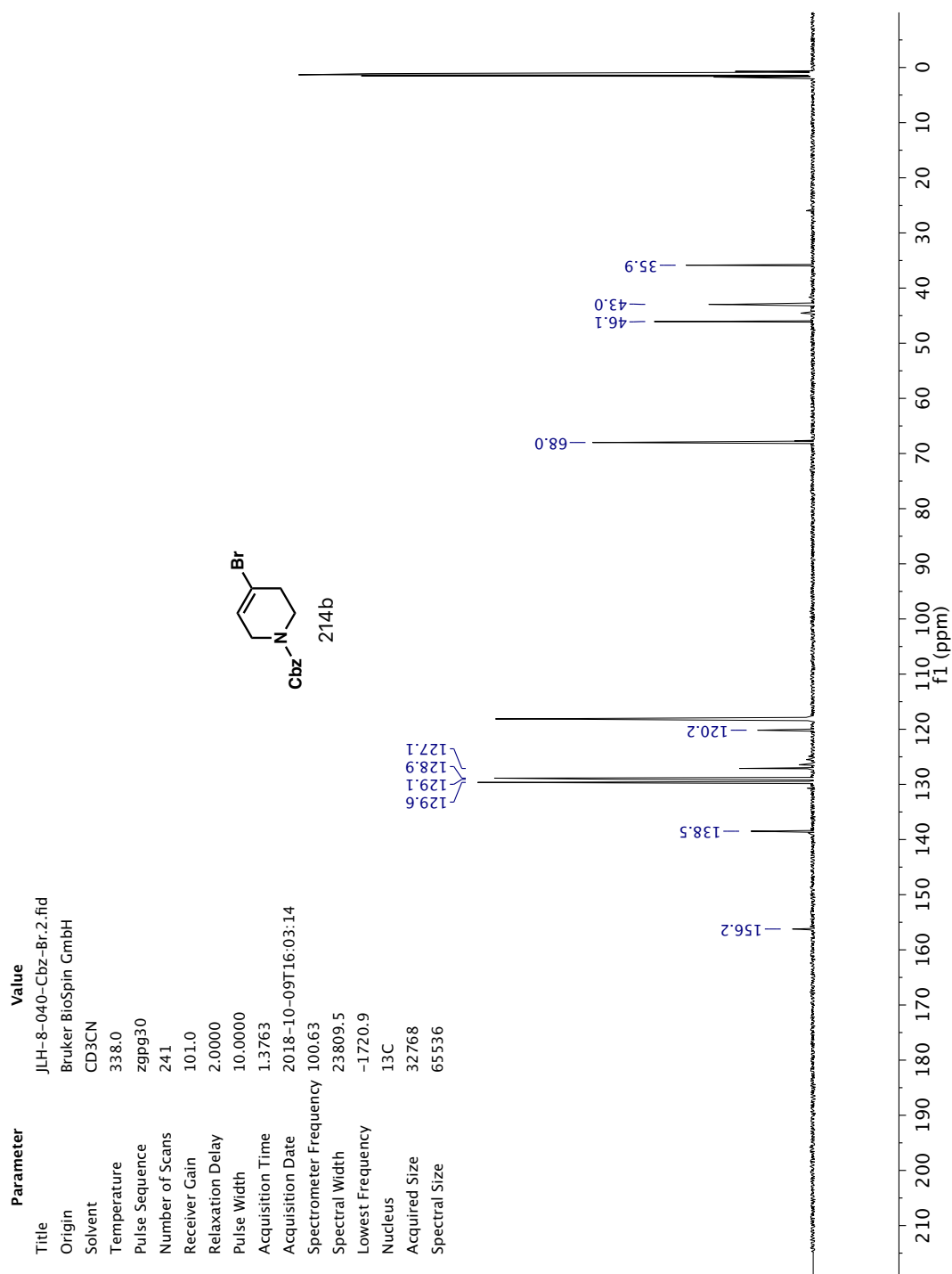


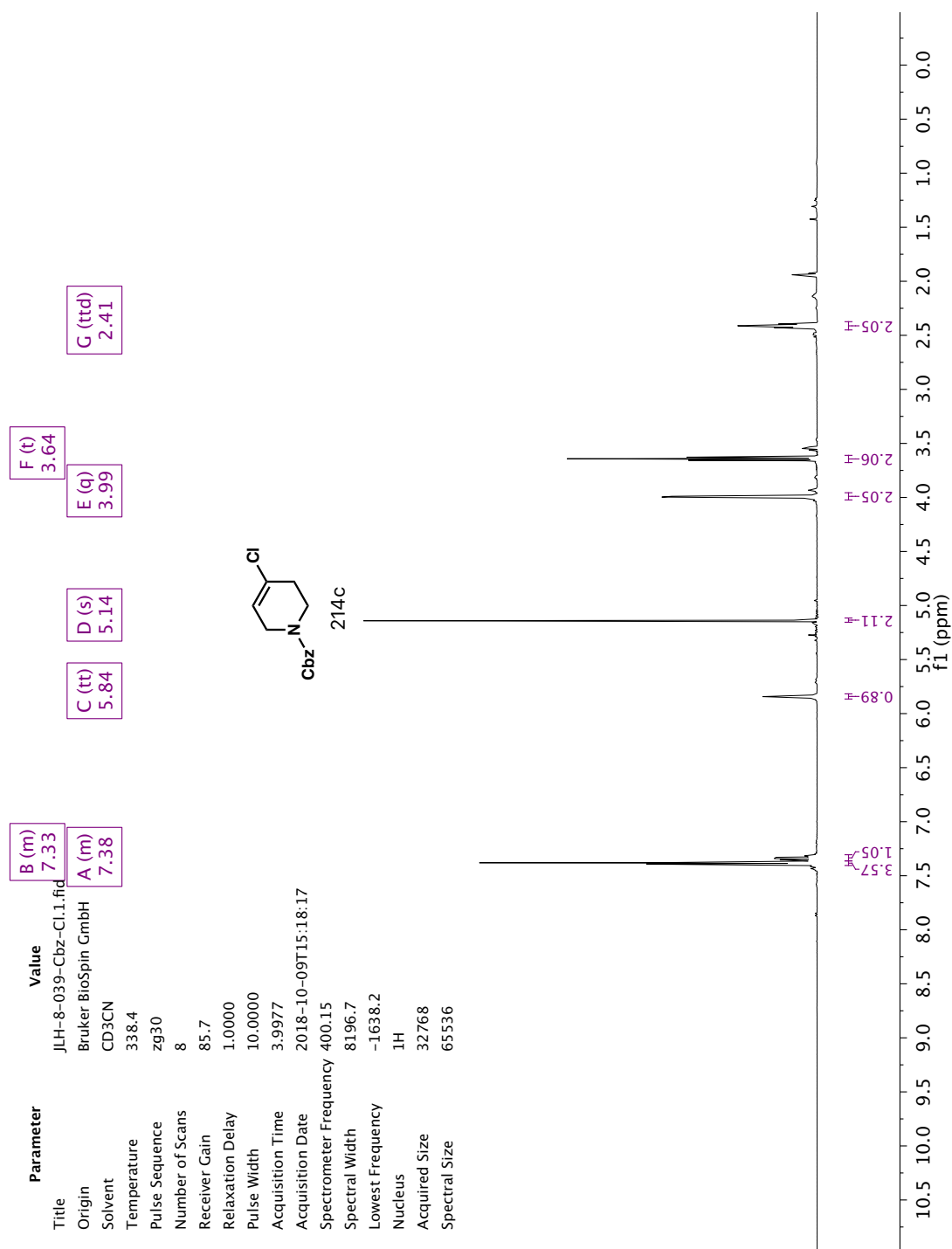


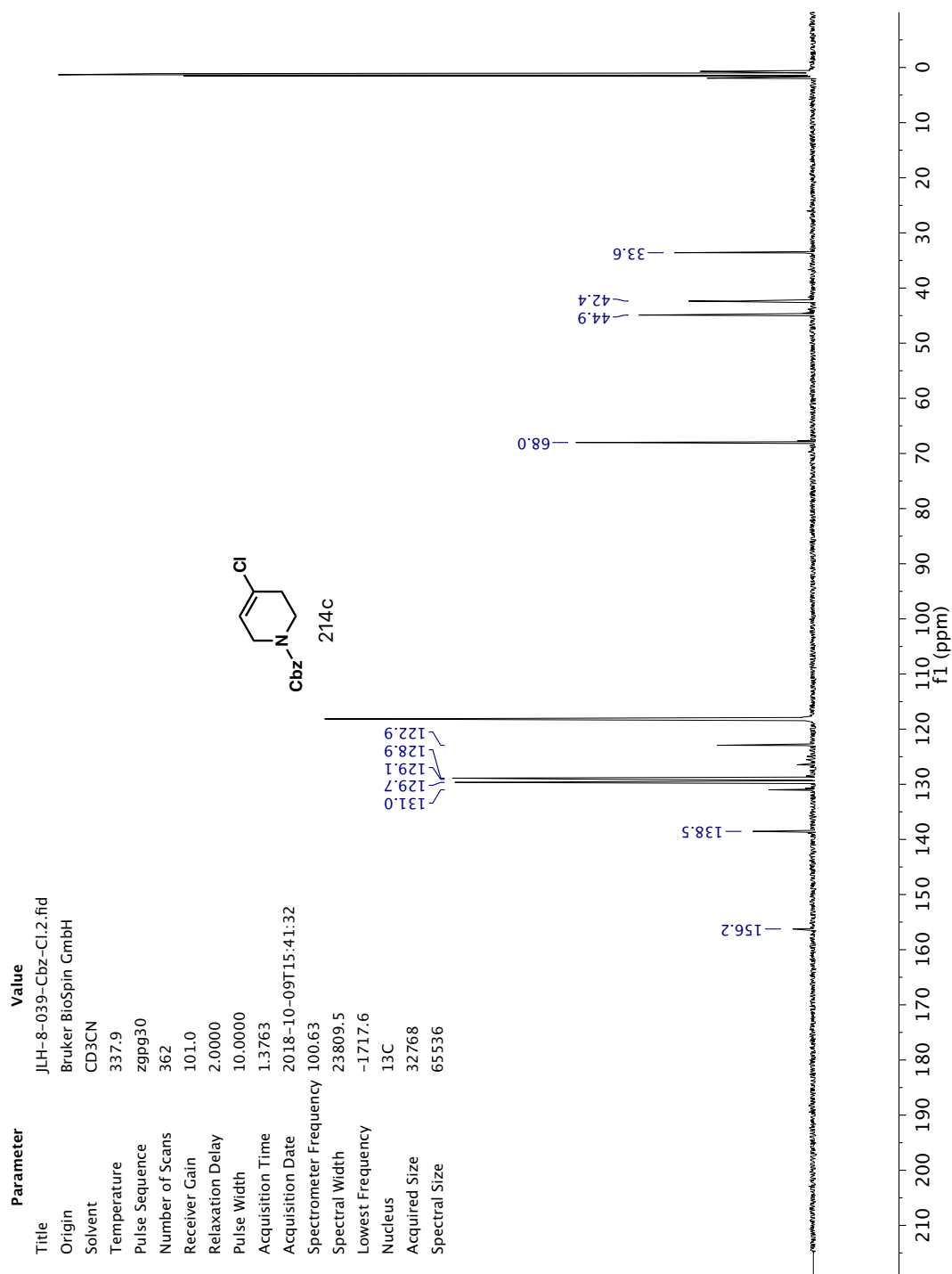


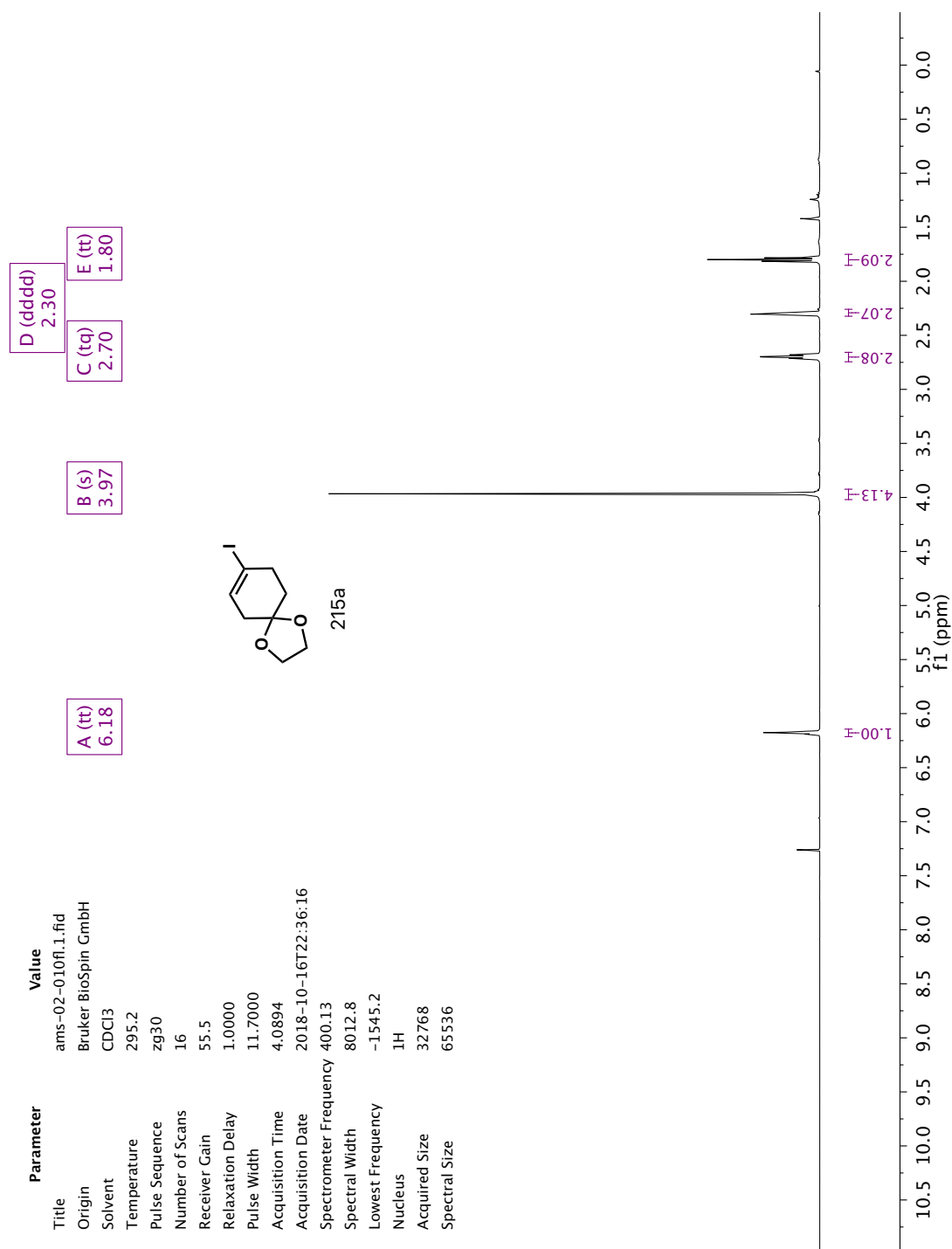


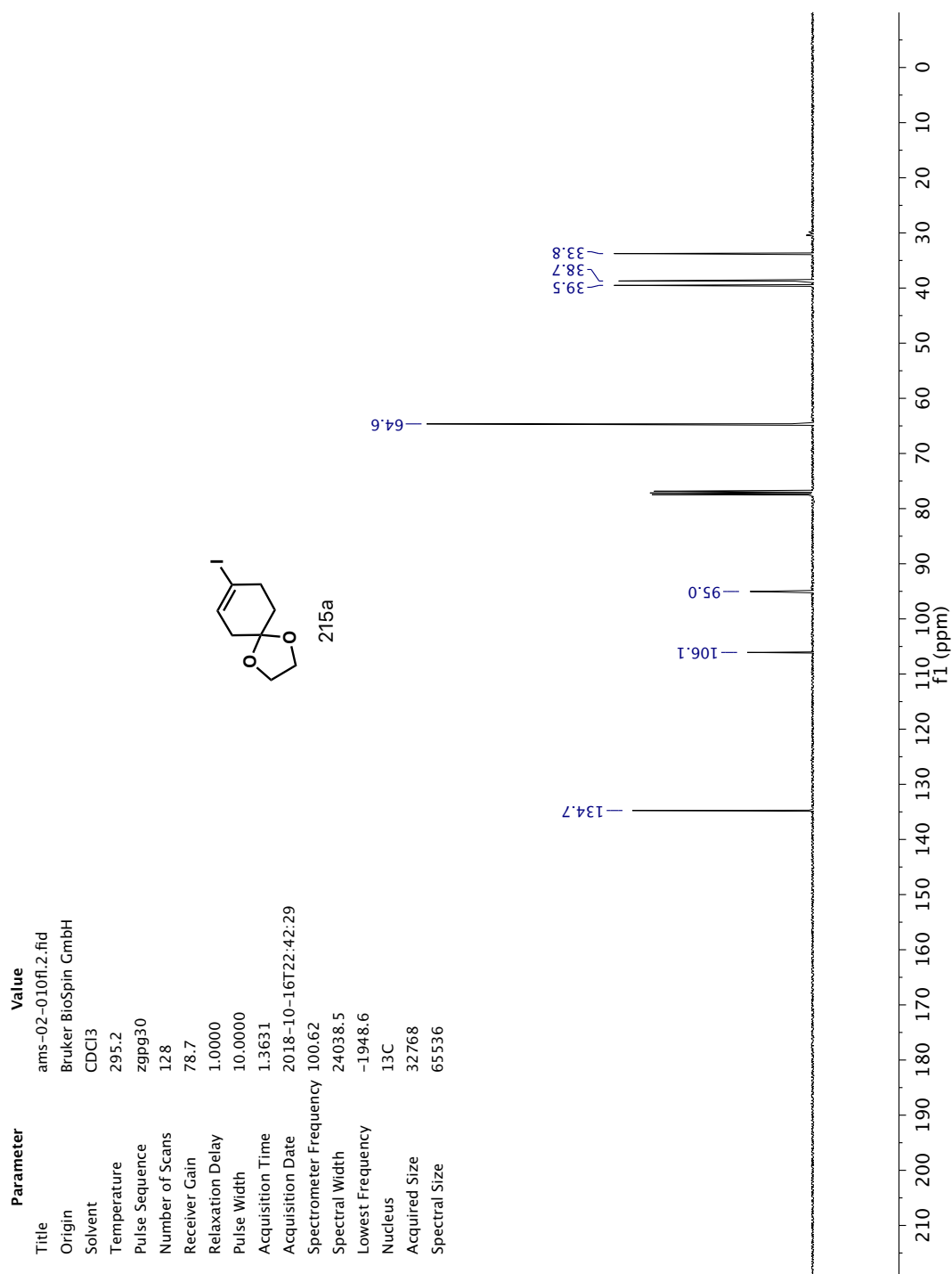


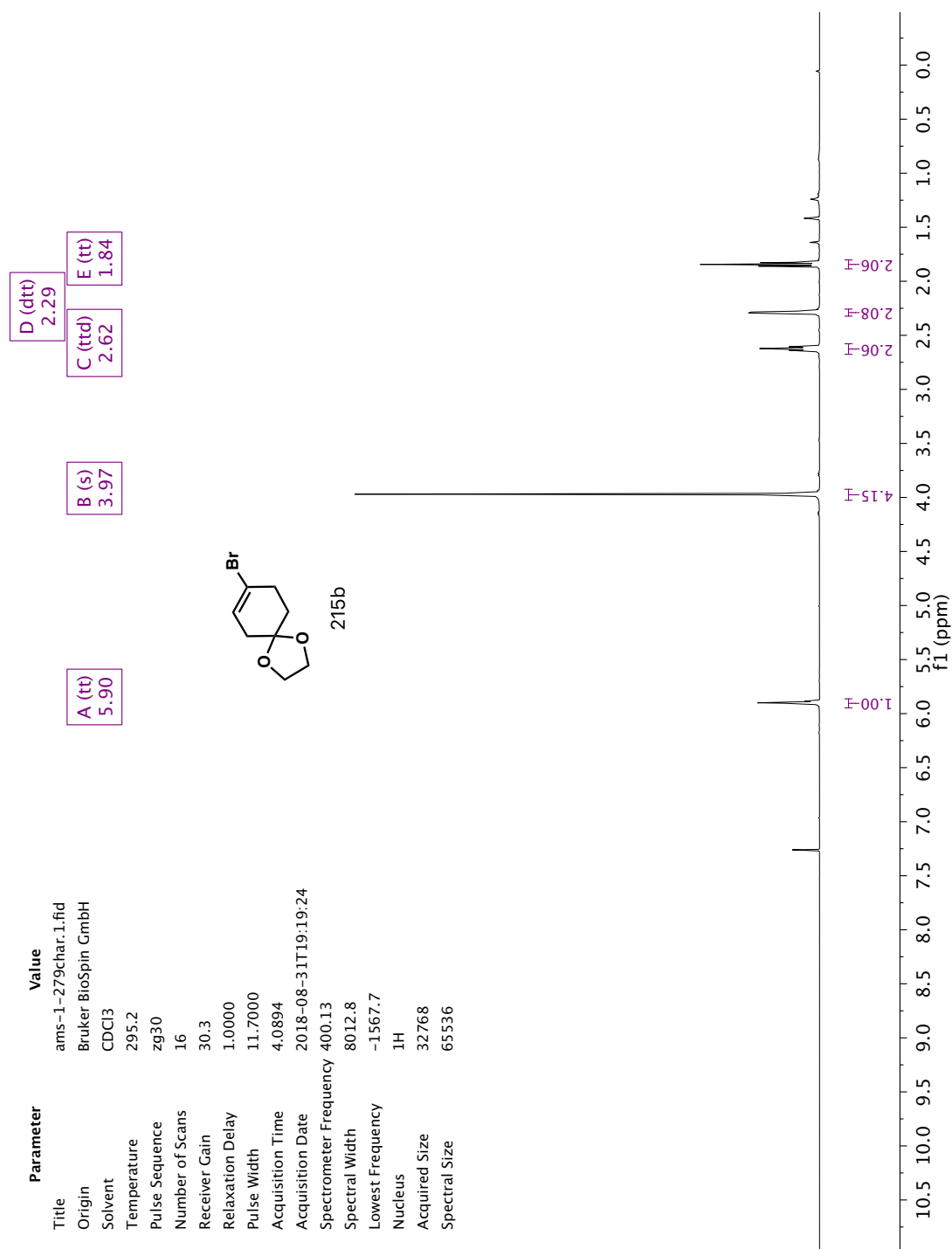


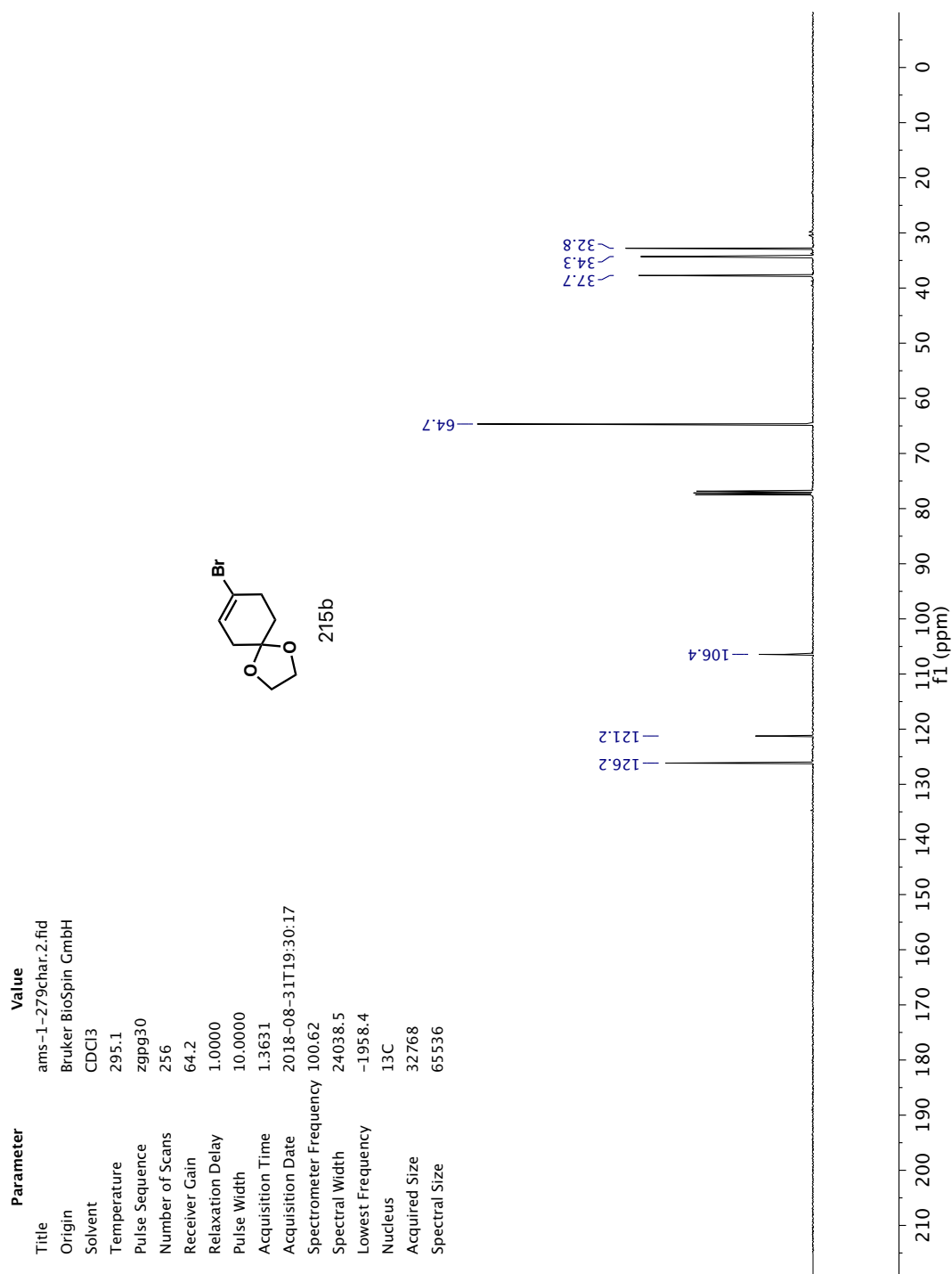


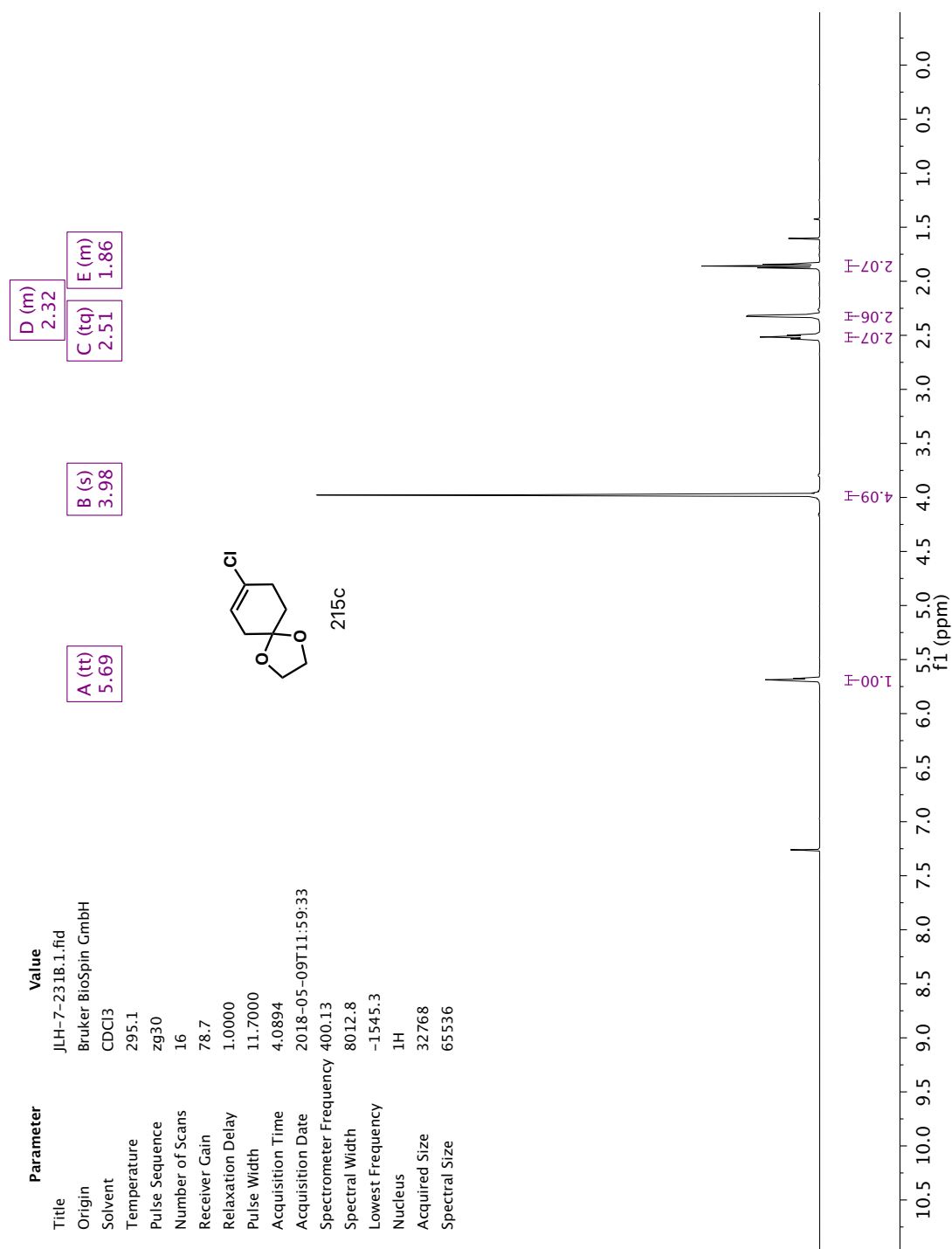


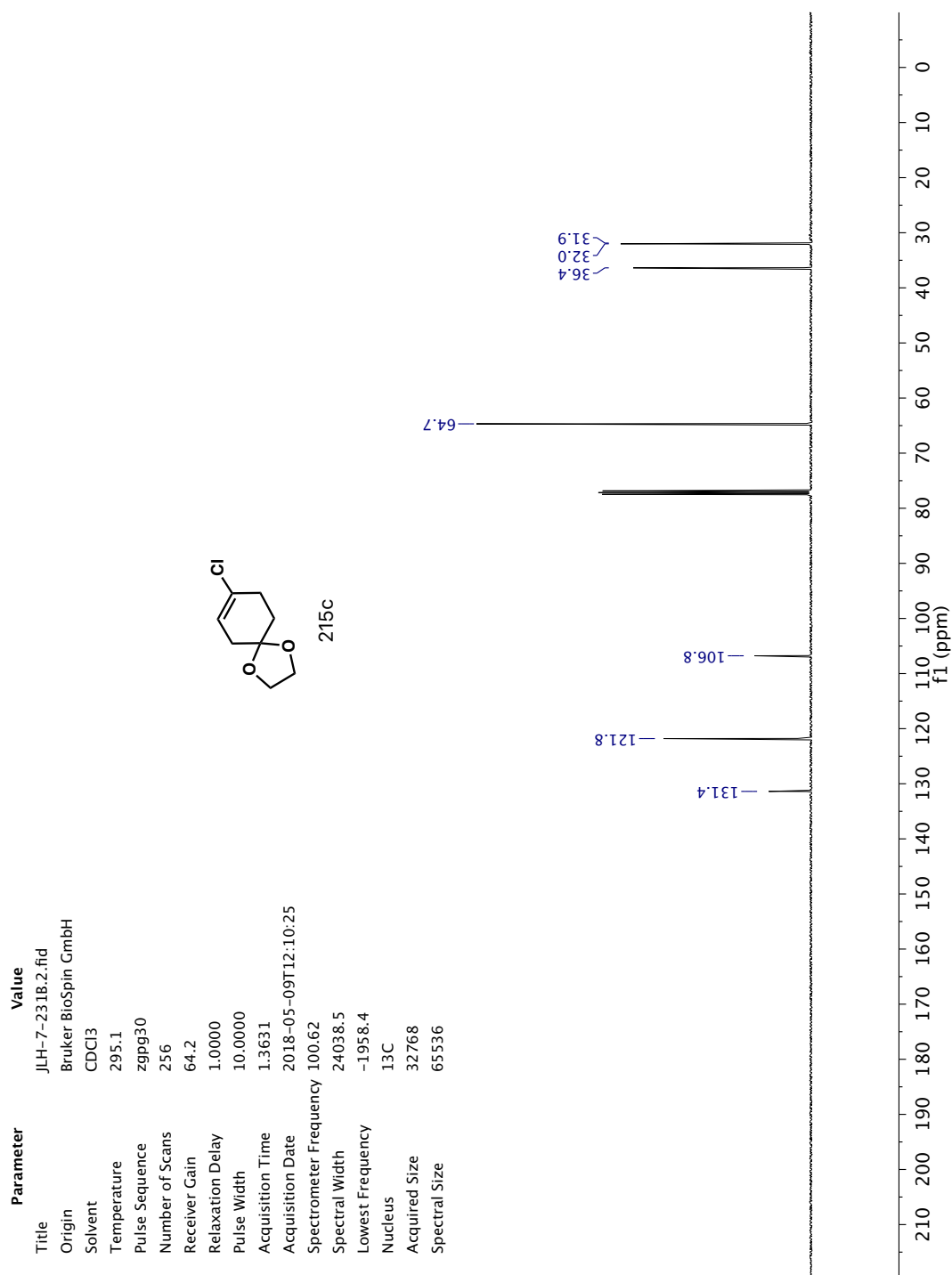


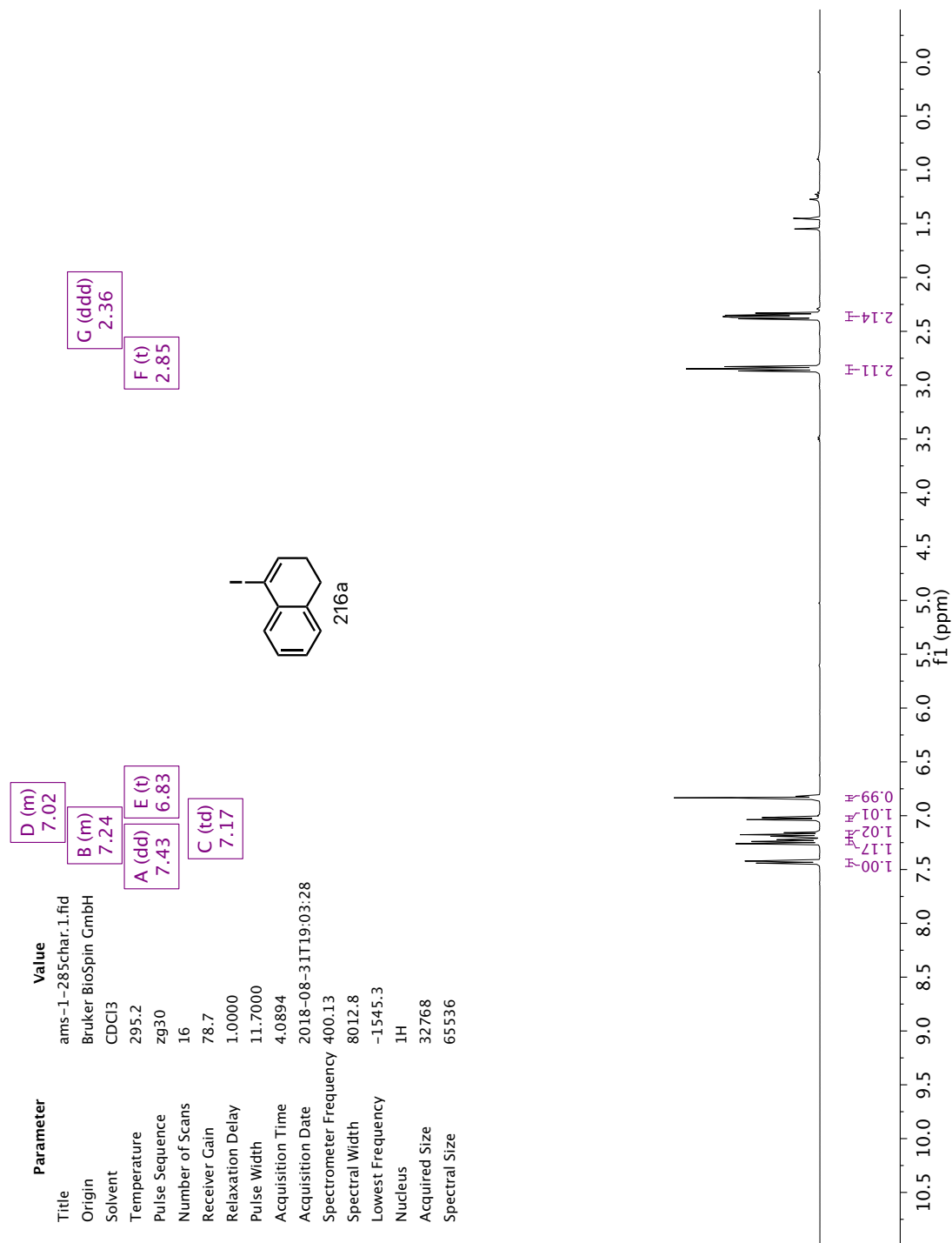




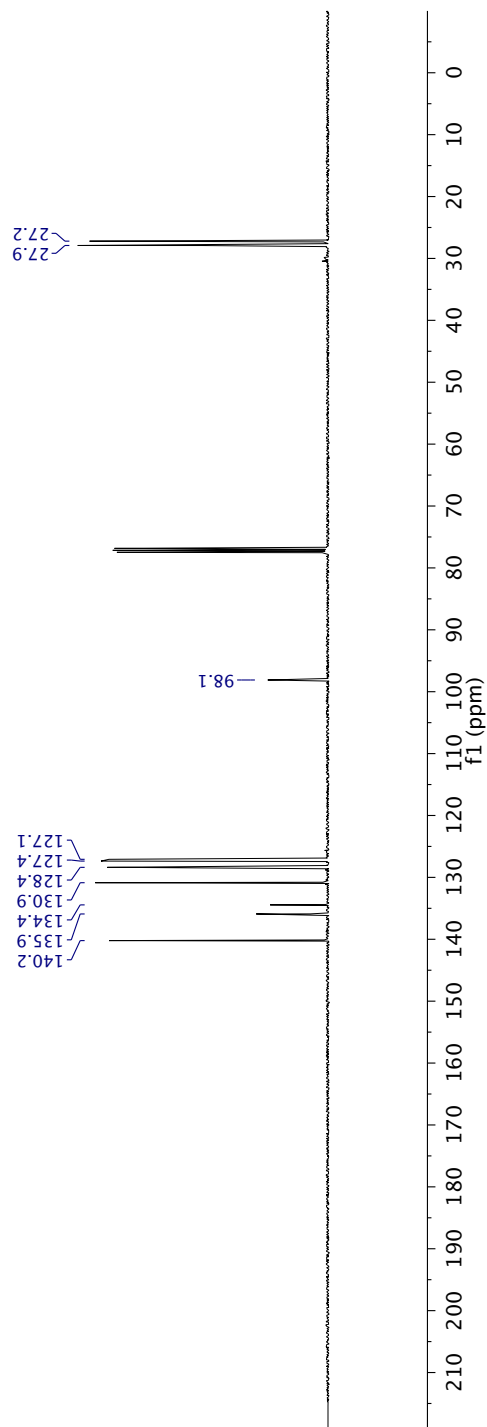
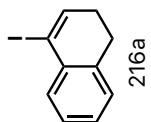


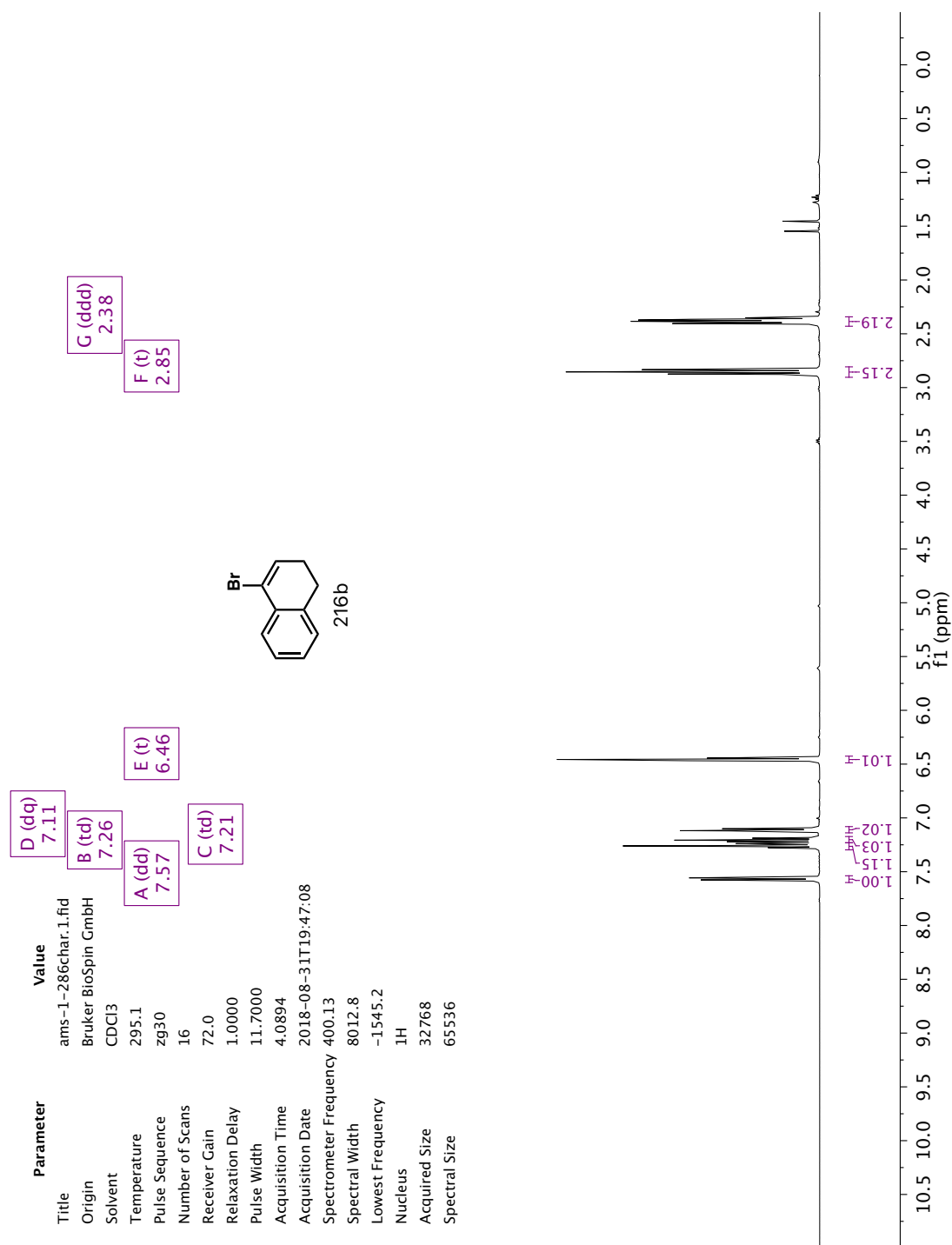




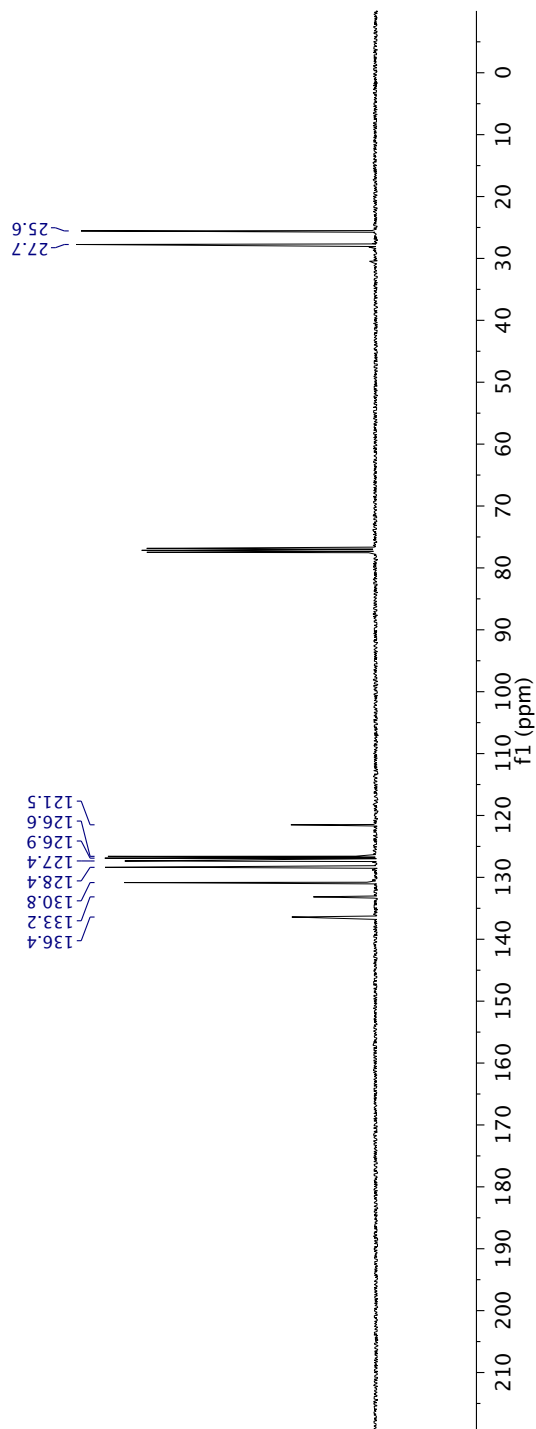
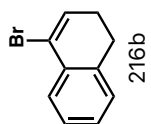


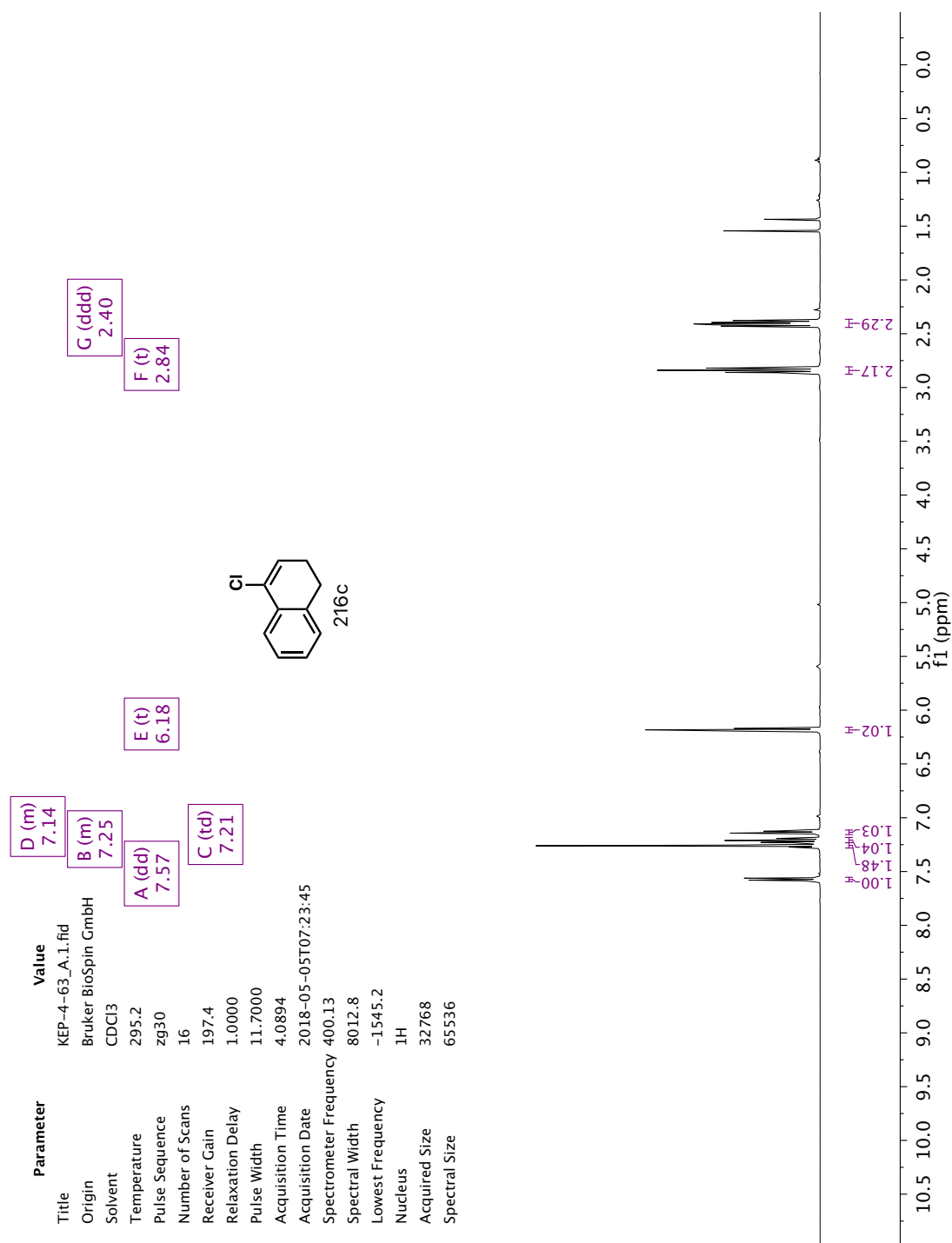
Parameter	Value
Title	ams-1-285char.2.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl ₃
Temperature	295.2
Pulse Sequence	zgpg30
Number of Scans	256
Receiver Gain	55.5
Relaxation Delay	1.0000
Pulse Width	10.0000
Acquisition Time	1.3631
Acquisition Date	2018-08-31T19:14:21
Spectrometer Frequency	100.62
Spectral Width	24038.5
Lowest Frequency	-1949.3
Nucleus	¹³ C
Acquired Size	32768
Spectral Size	65536

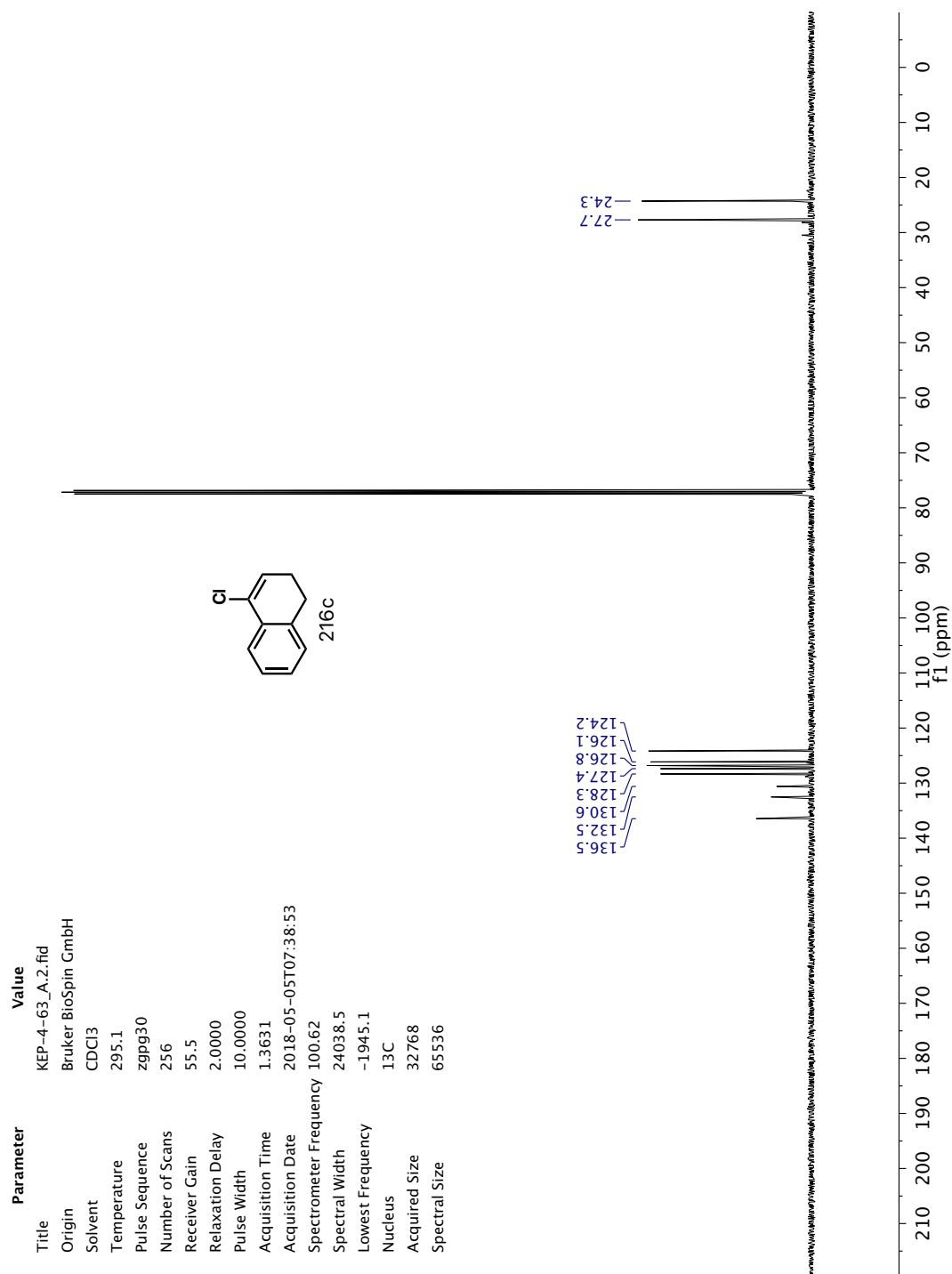


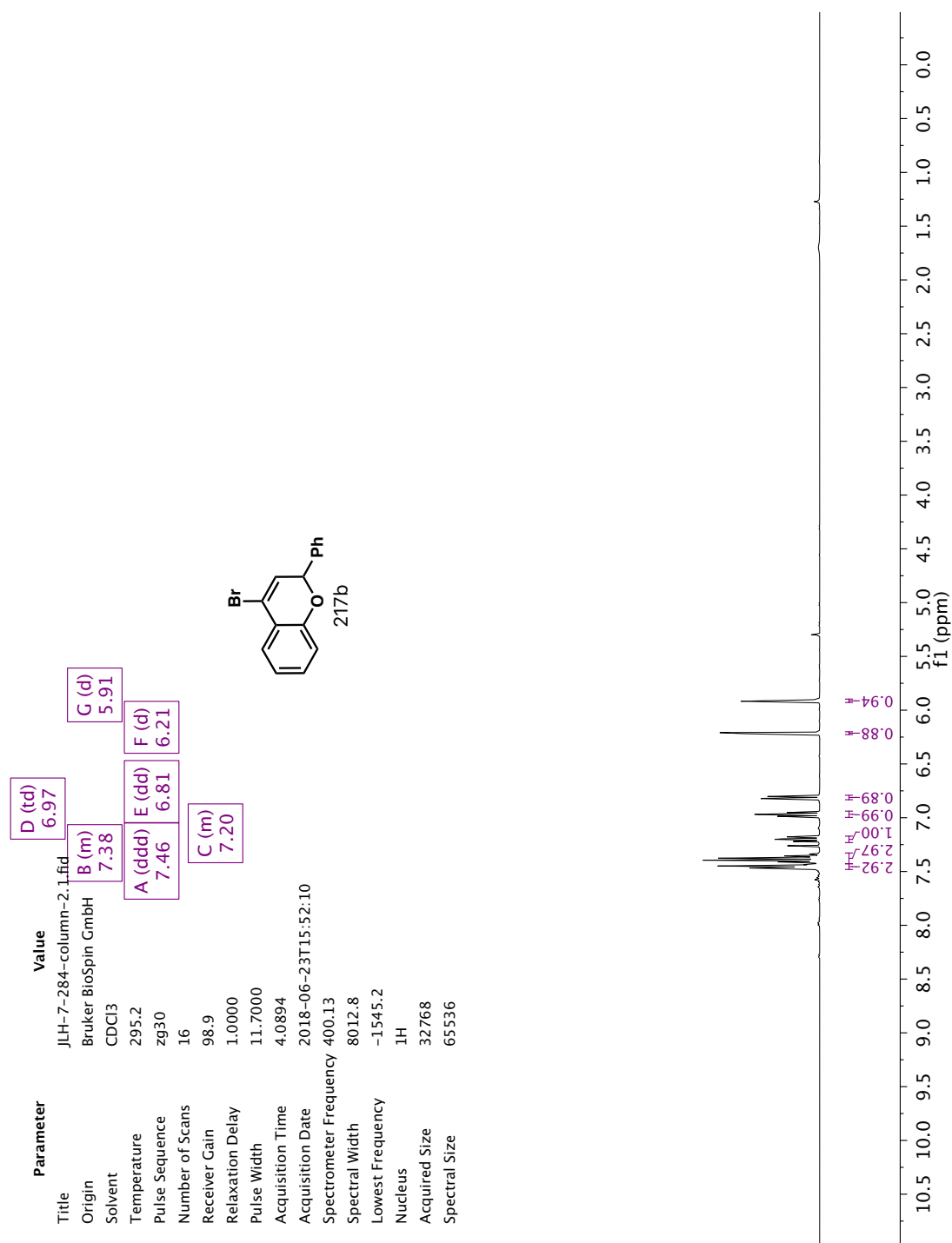


Parameter	Value
Title	ams-1-286char.2.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl ₃
Temperature	295.2
Pulse Sequence	zgpg30
Number of Scans	128
Receiver Gain	64.2
Relaxation Delay	1.0000
Pulse Width	10.0000
Acquisition Time	1.3631
Acquisition Date	2018-08-31T19:52:49
Spectrometer Frequency	100.62
Spectral Width	24038.5
Lowest Frequency	-1949.1
Nucleus	¹³ C
Acquired Size	32768
Spectral Size	65536

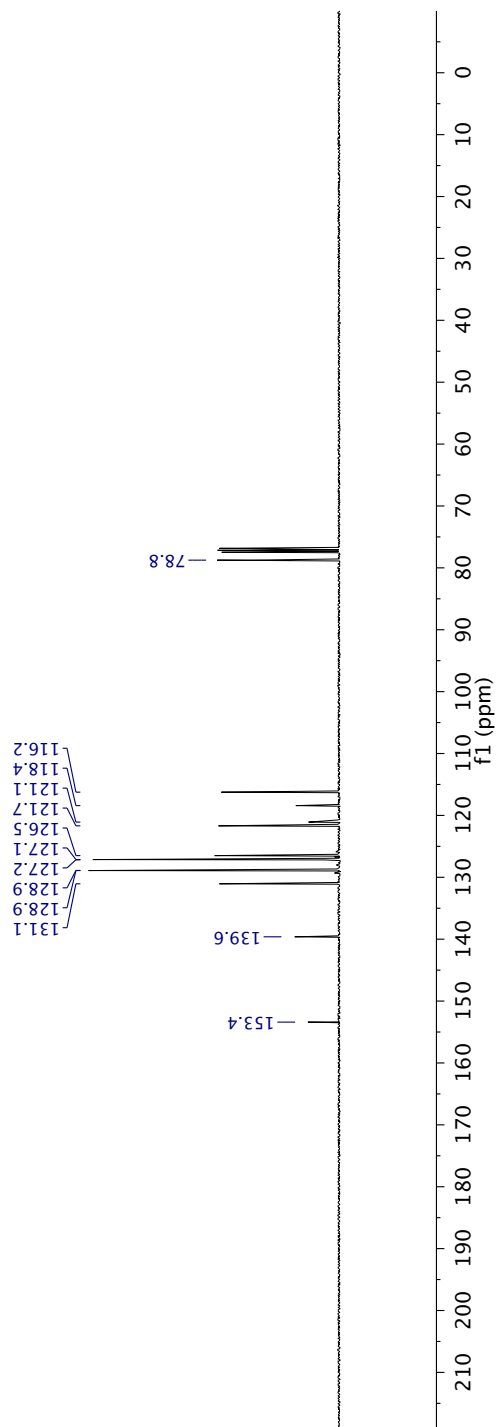
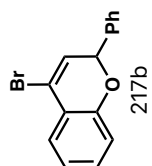


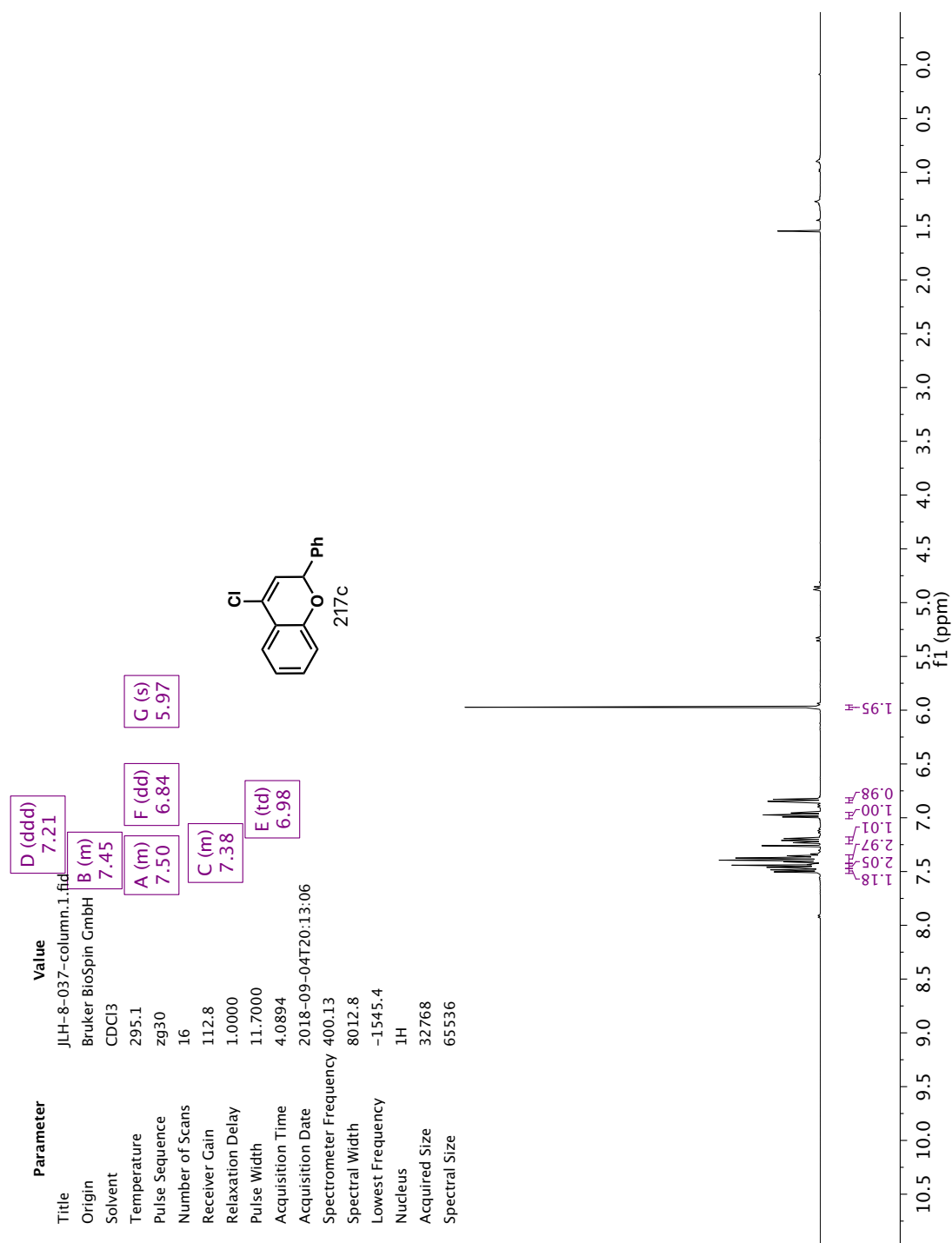


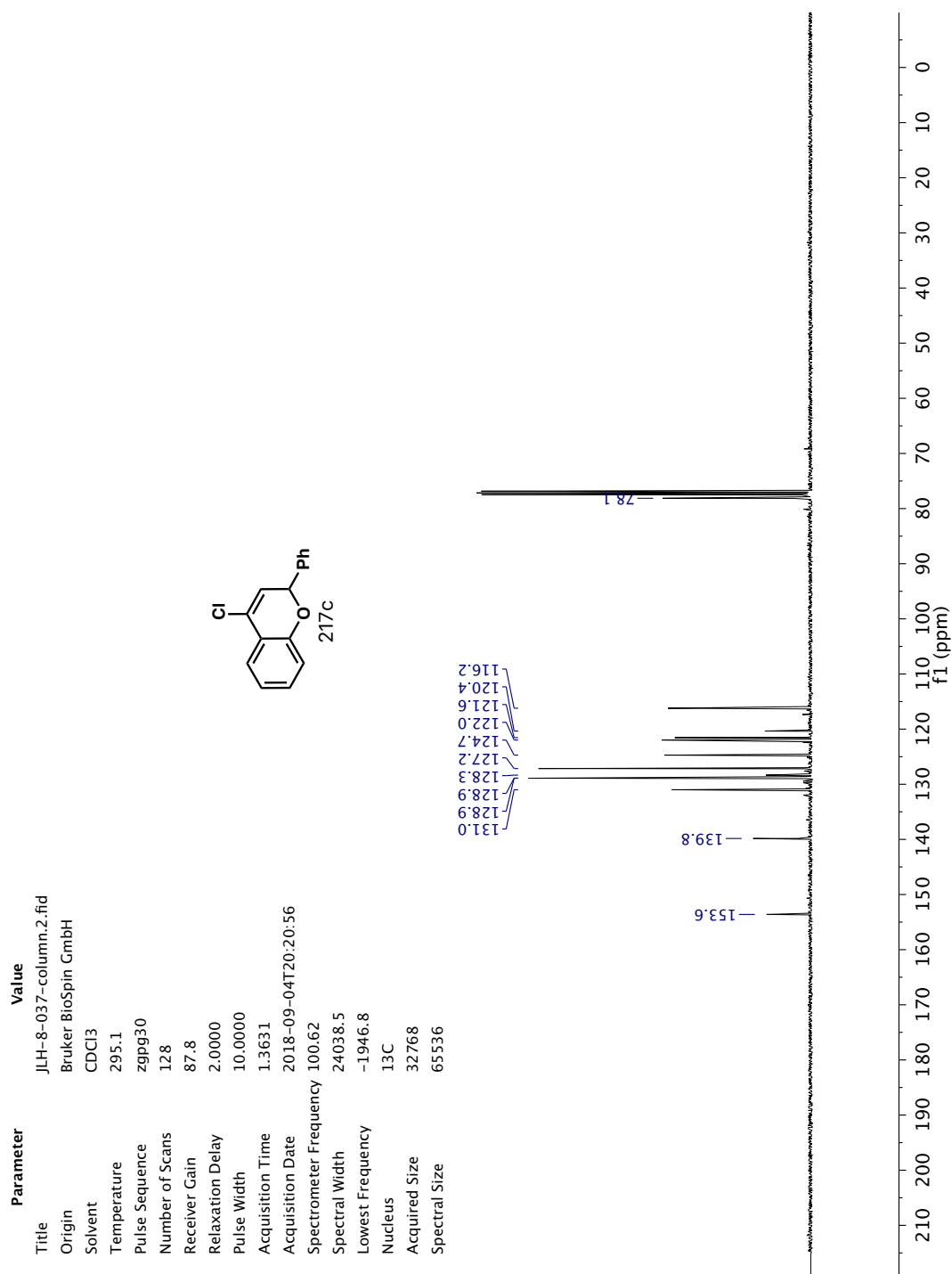


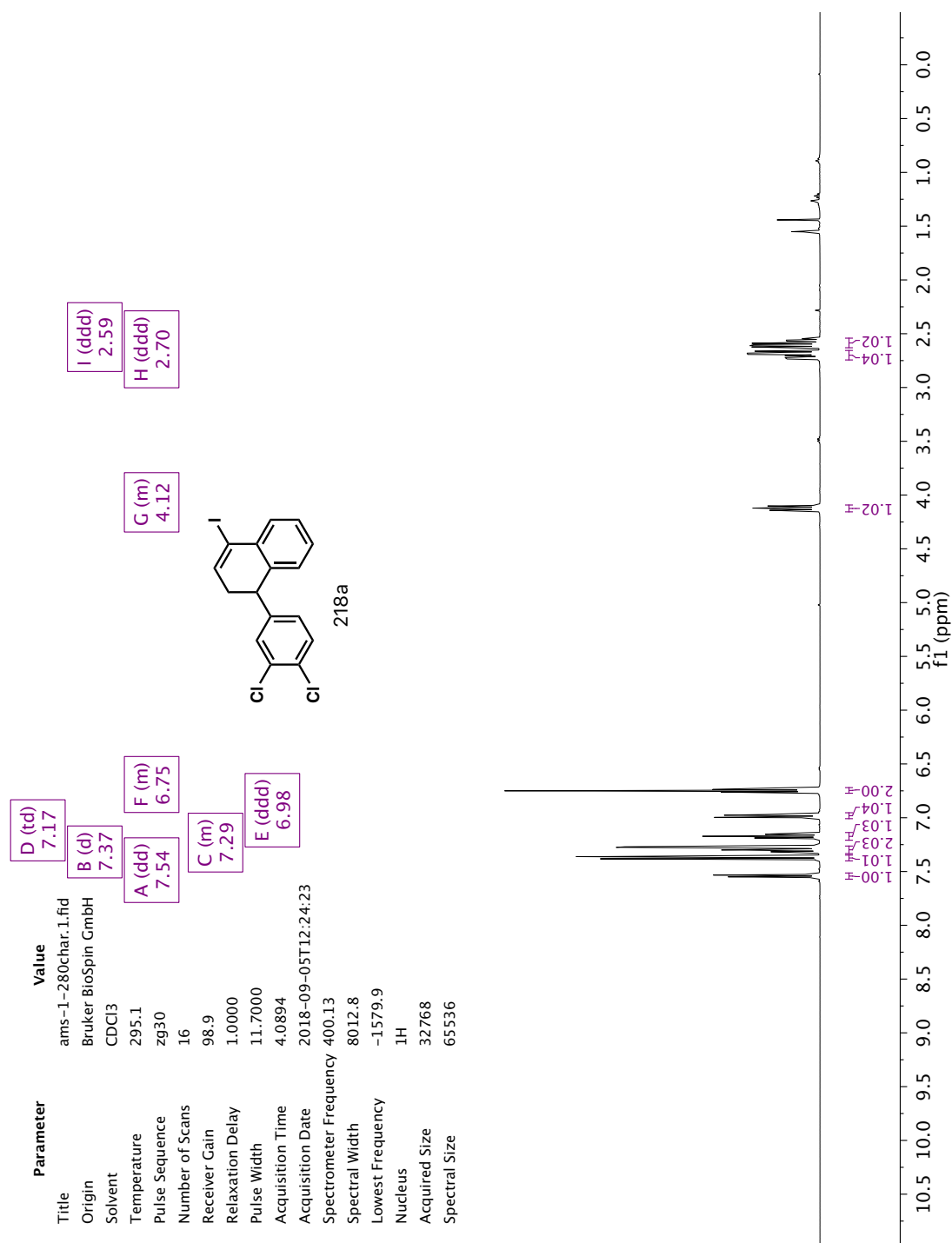


Parameter	Value
Title	JLH-7-284-column-2.2.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl ₃
Temperature	295.2
Pulse Sequence	zgpg30
Number of Scans	256
Receiver Gain	78.7
Relaxation Delay	1.0000
Pulse Width	10.0000
Acquisition Time	1.3631
Acquisition Date	2018-06-23T16:03:38
Spectrometer Frequency	100.62
Spectral Width	24038.5
Lowest Frequency	-1947.0
Nucleus	¹³ C
Acquired Size	32768
Spectral Size	65536

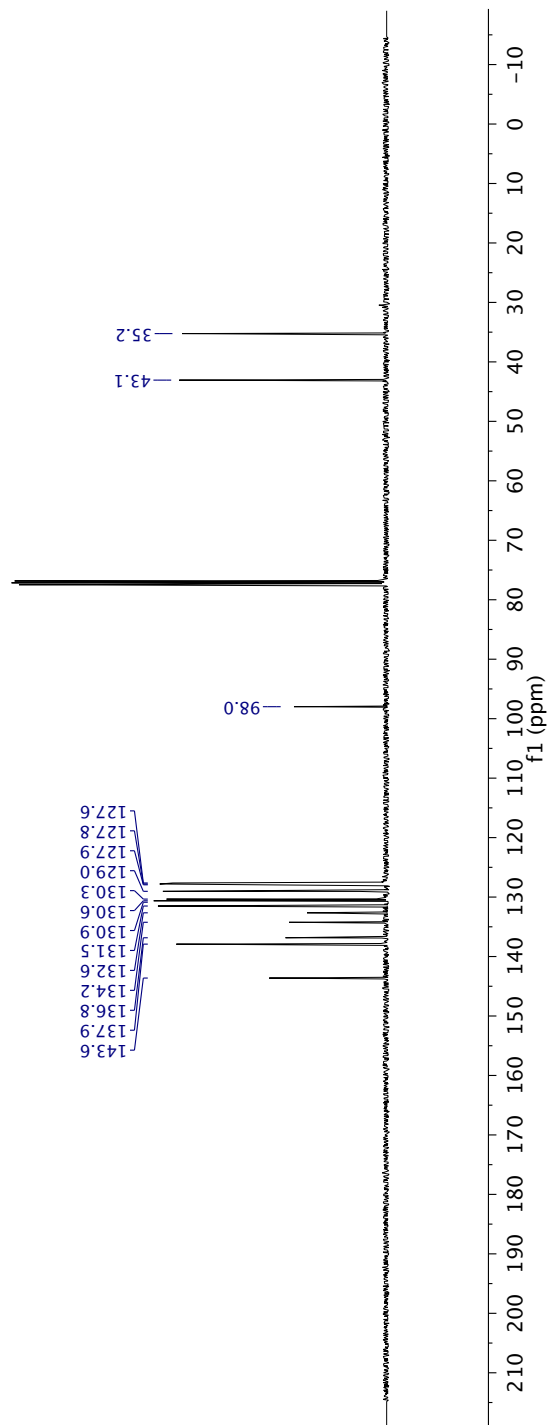
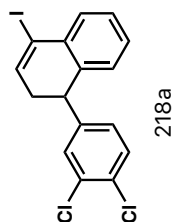


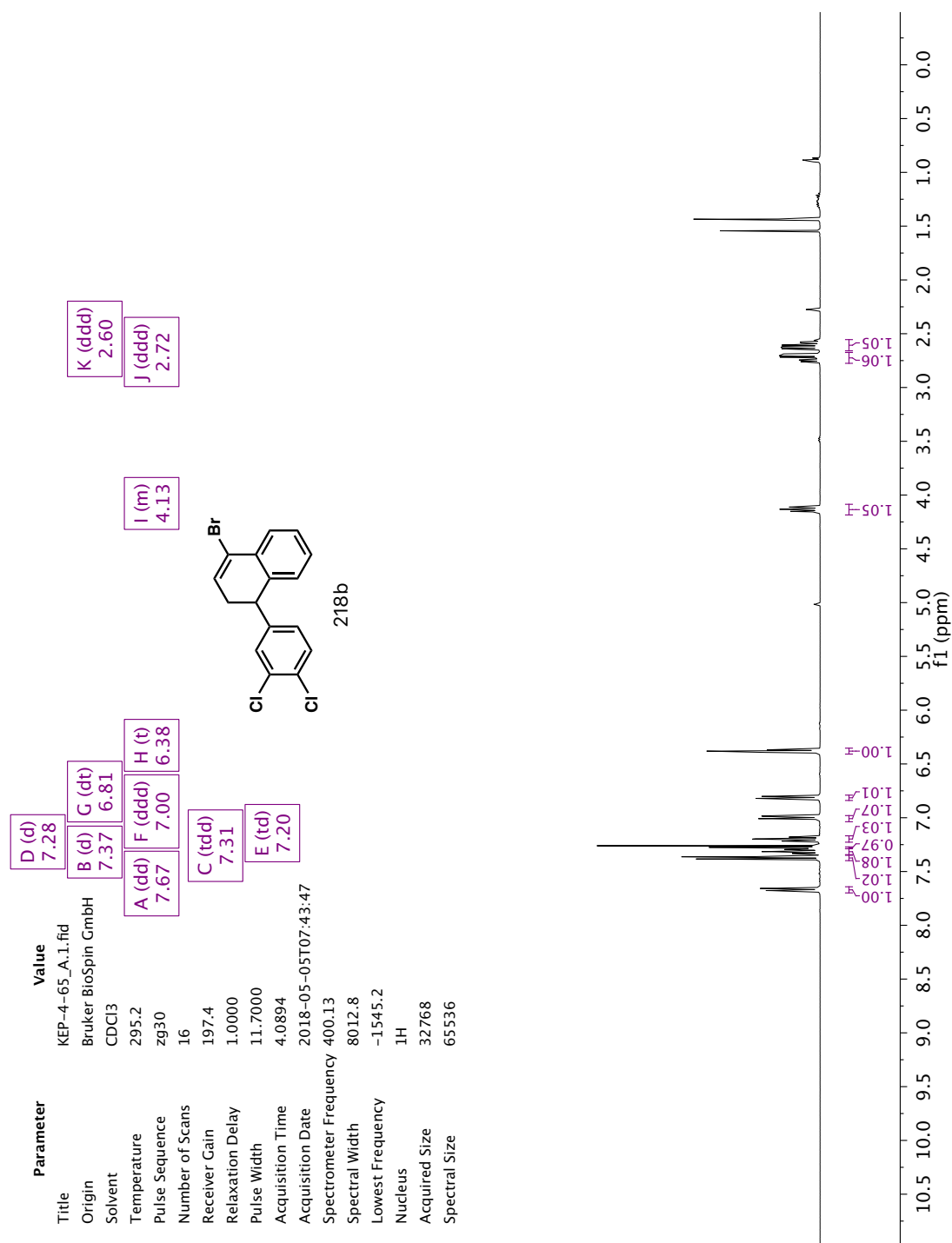


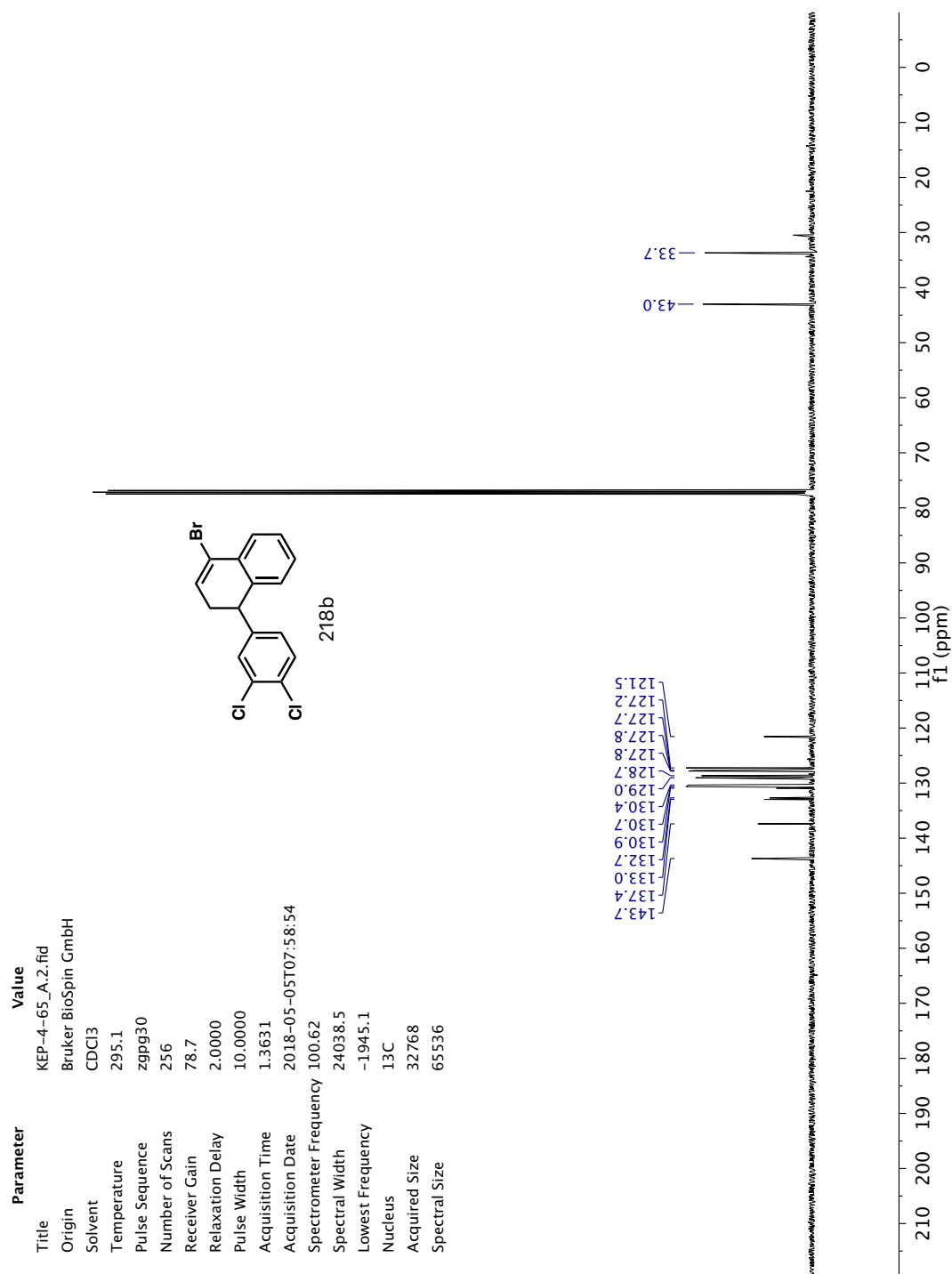


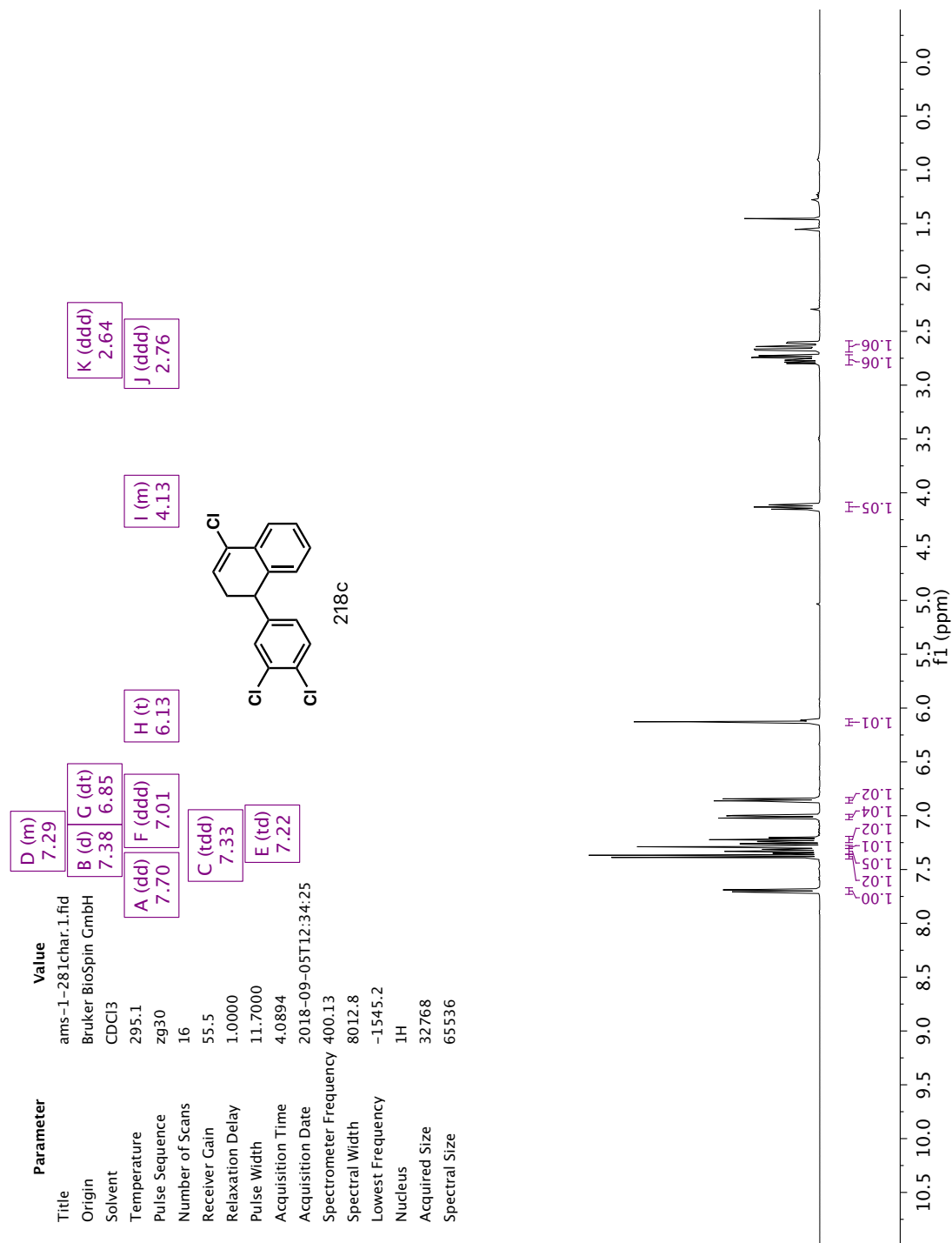


Parameter	Value
Title	ams-1-280char.2.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl ₃
Temperature	295.1
Pulse Sequence	zgpg30
Number of Scans	128
Receiver Gain	72.0
Relaxation Delay	1.0000
Pulse Width	10.0000
Acquisition Time	1.3631
Acquisition Date	2018-09-05T12:30:05
Spectrometer Frequency	100.62
Spectral Width	24038.5
Lowest Frequency	-1948.2
Nucleus	¹³ C
Acquired Size	32768
Spectral Size	65536

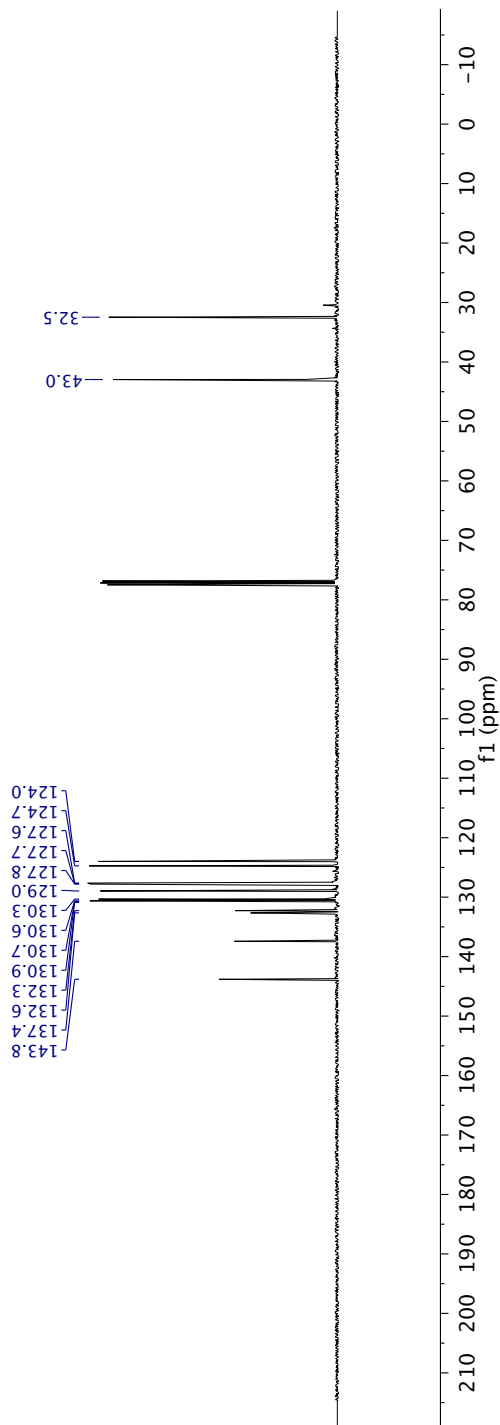
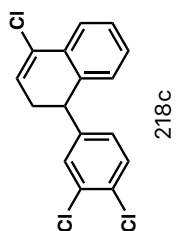


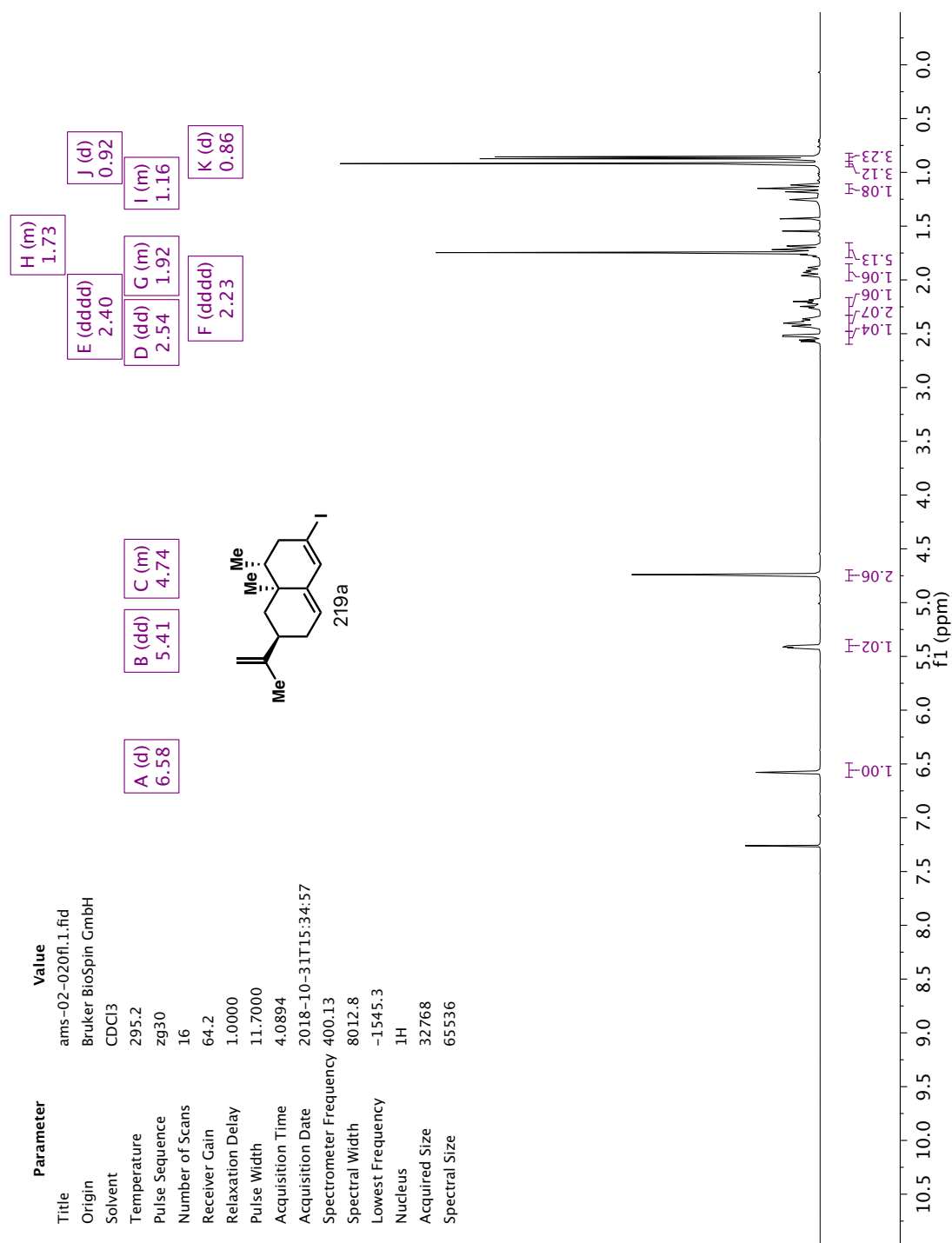


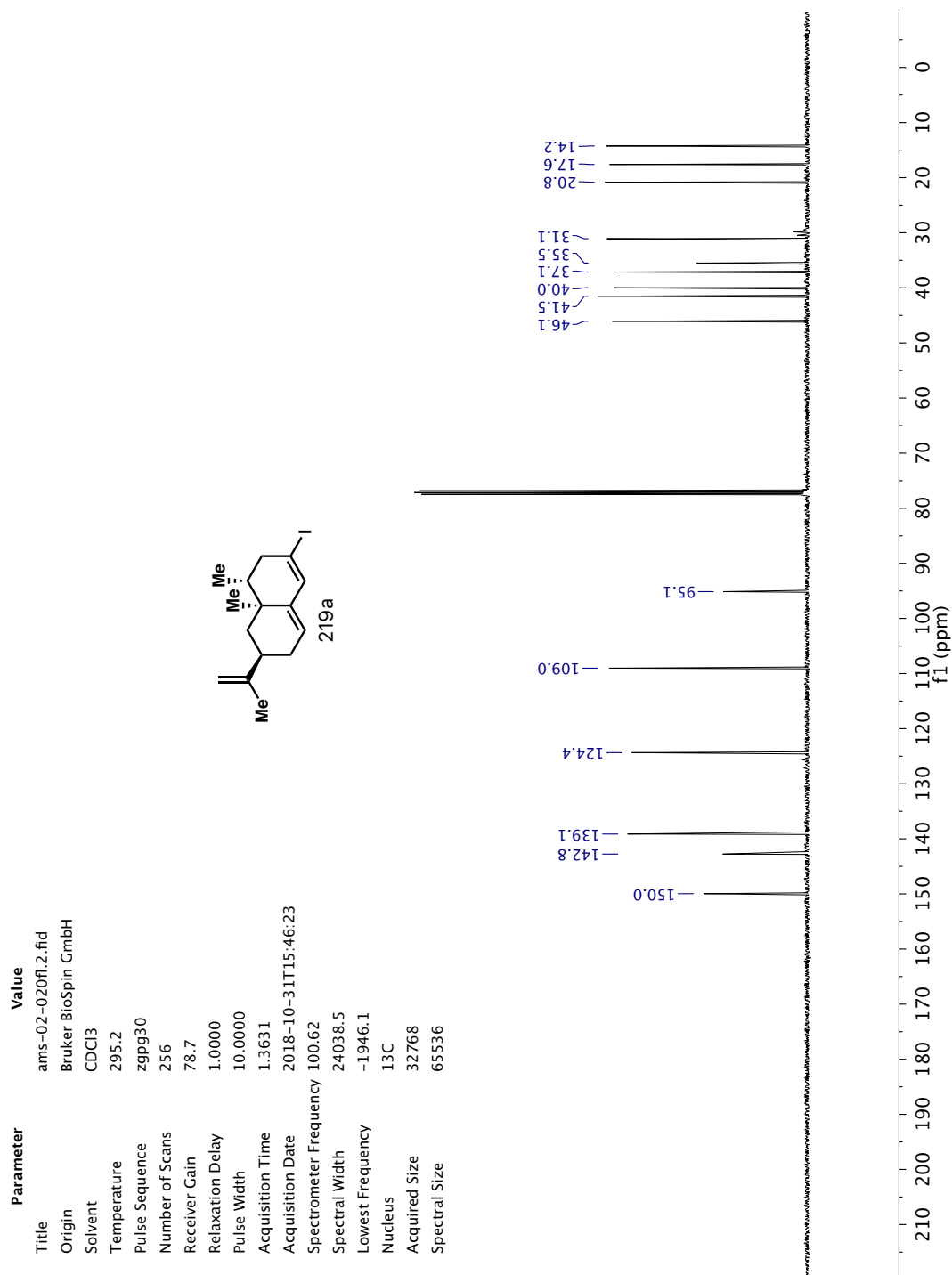


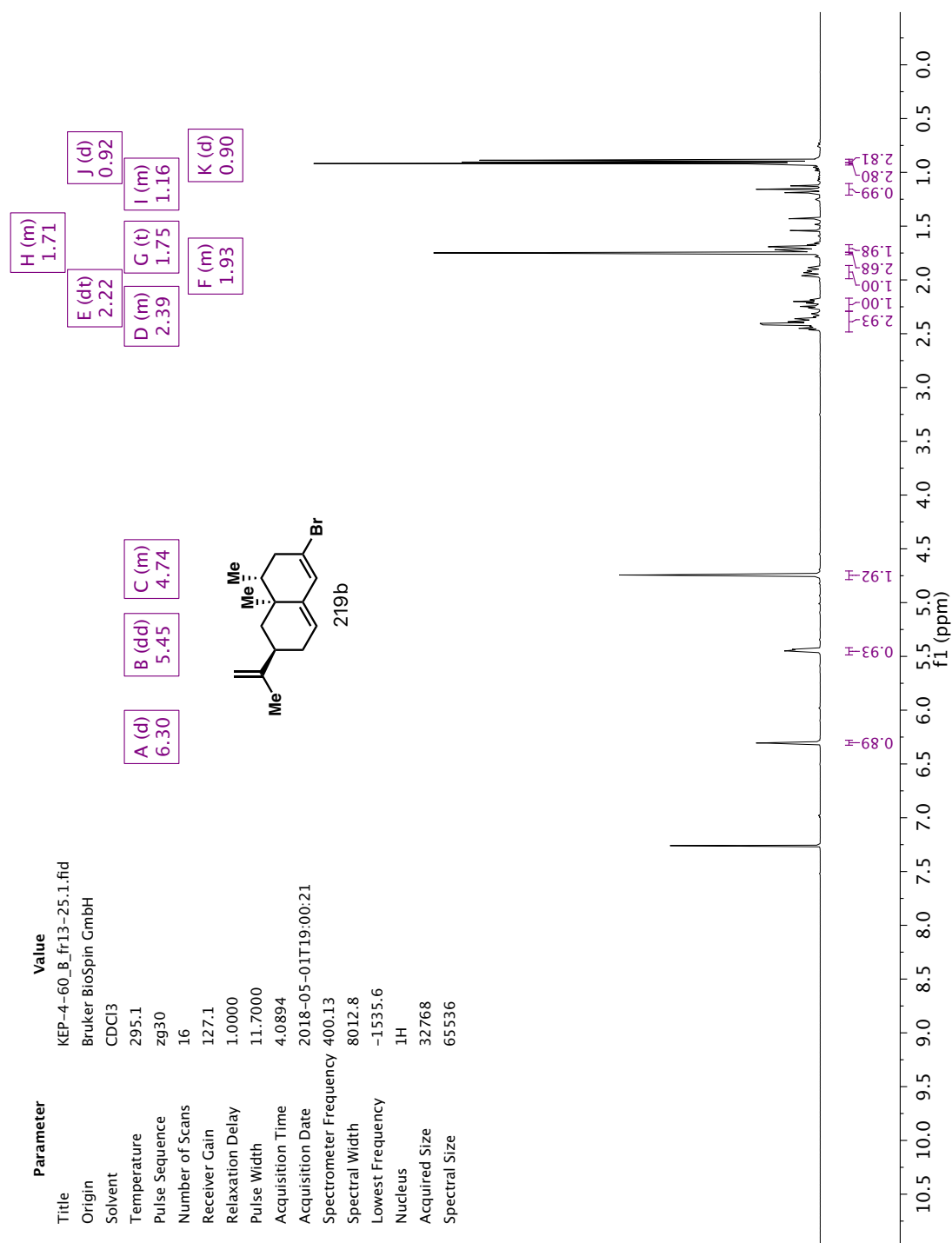


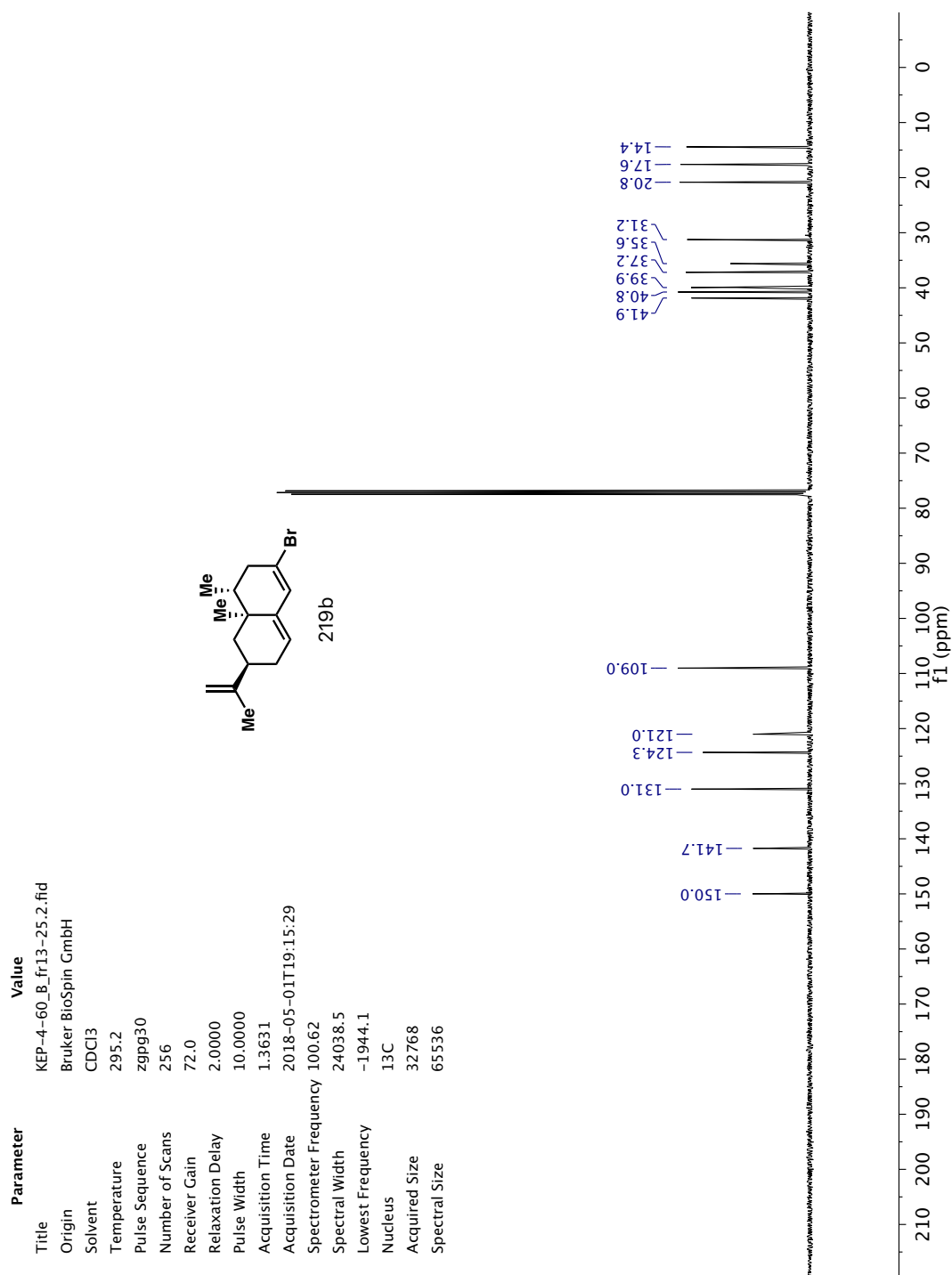
Parameter	Value
Title	ams-1-281char.2.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl ₃
Temperature	295.1
Pulse Sequence	zgpg30
Number of Scans	128
Receiver Gain	72.0
Relaxation Delay	1.0000
Pulse Width	10.0000
Acquisition Time	1.3631
Acquisition Date	2018-09-05T12:40:07
Spectrometer Frequency	100.62
Spectral Width	24038.5
Lowest Frequency	-1949.6
Nucleus	¹³ C
Acquired Size	32768
Spectral Size	65536

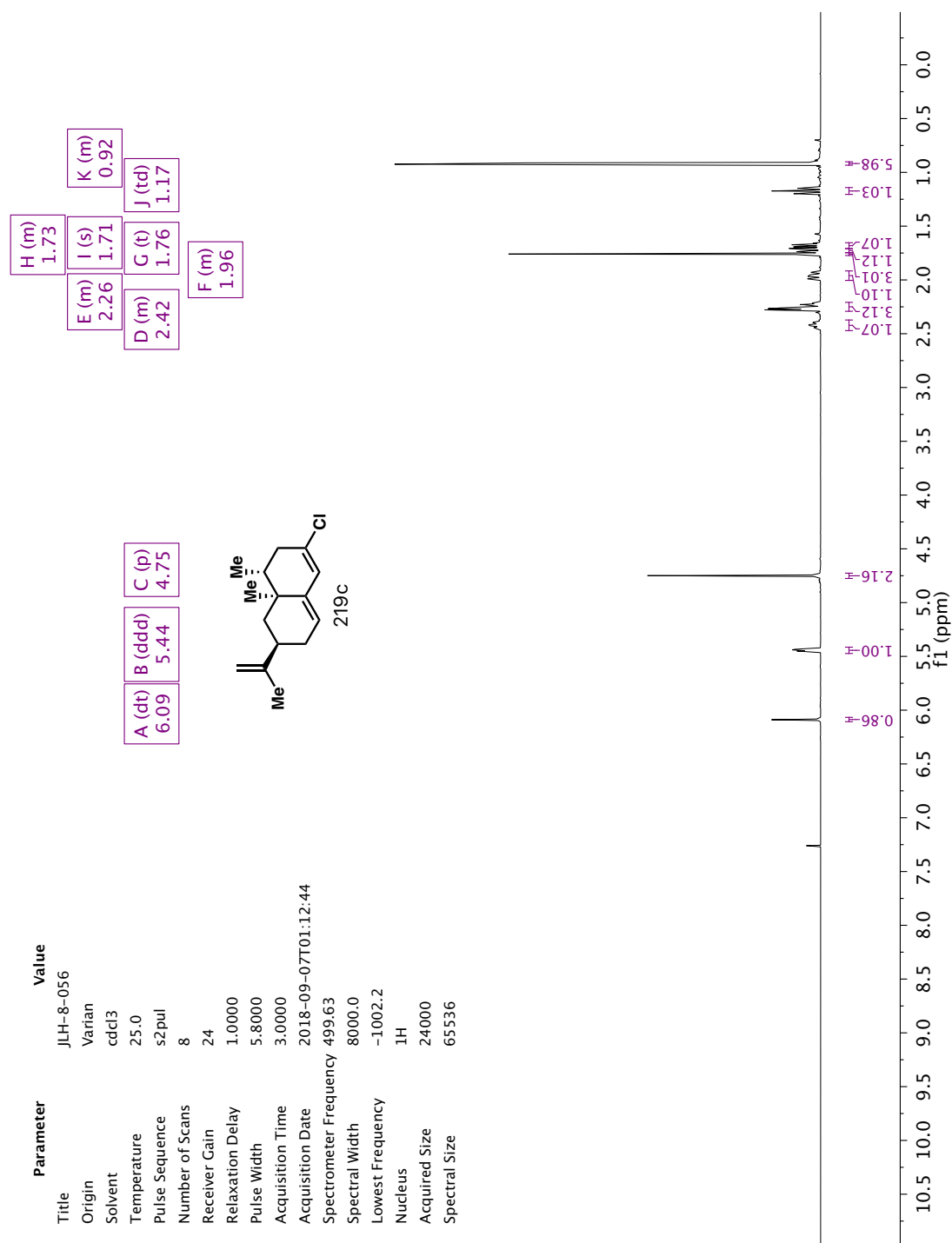


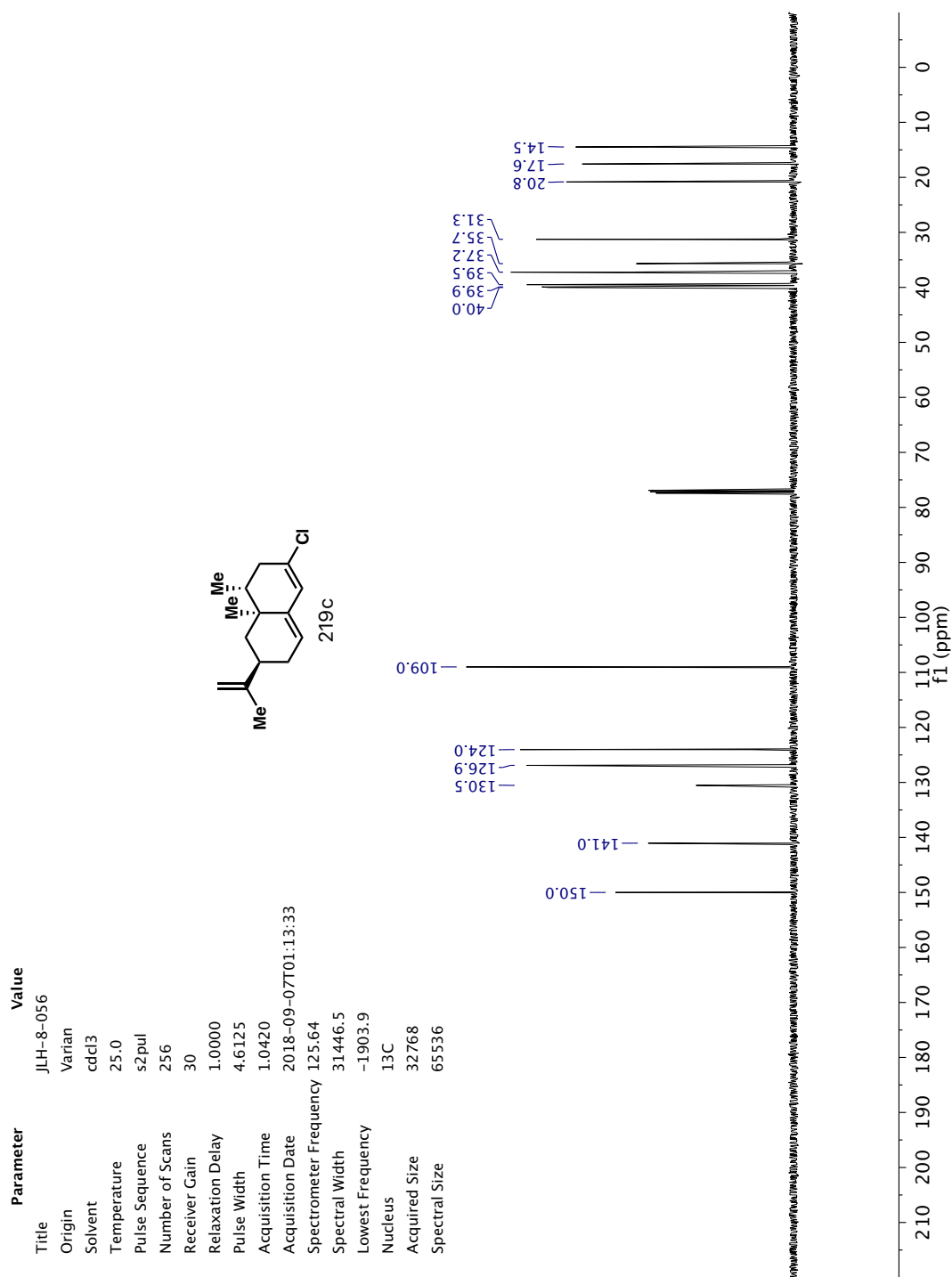


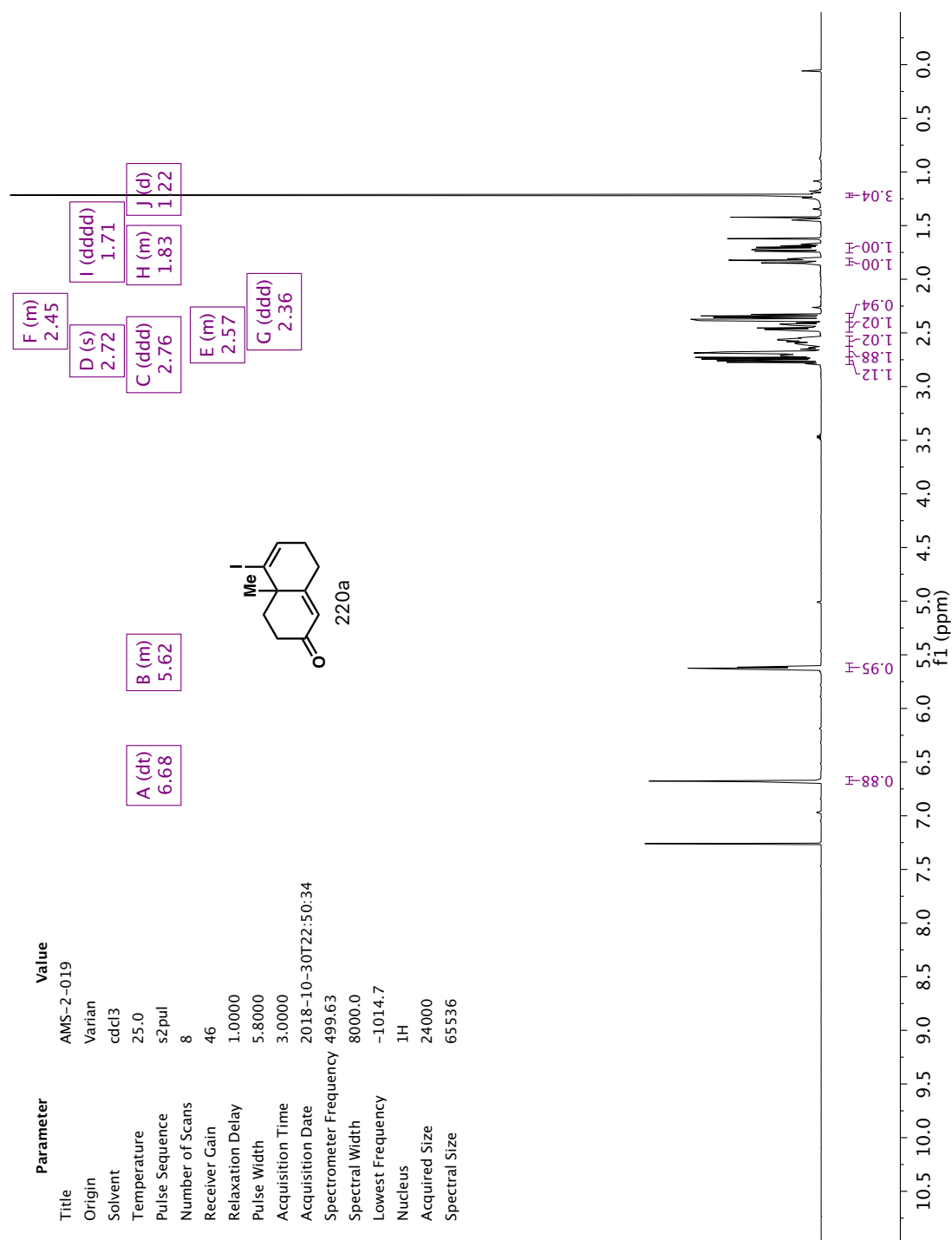


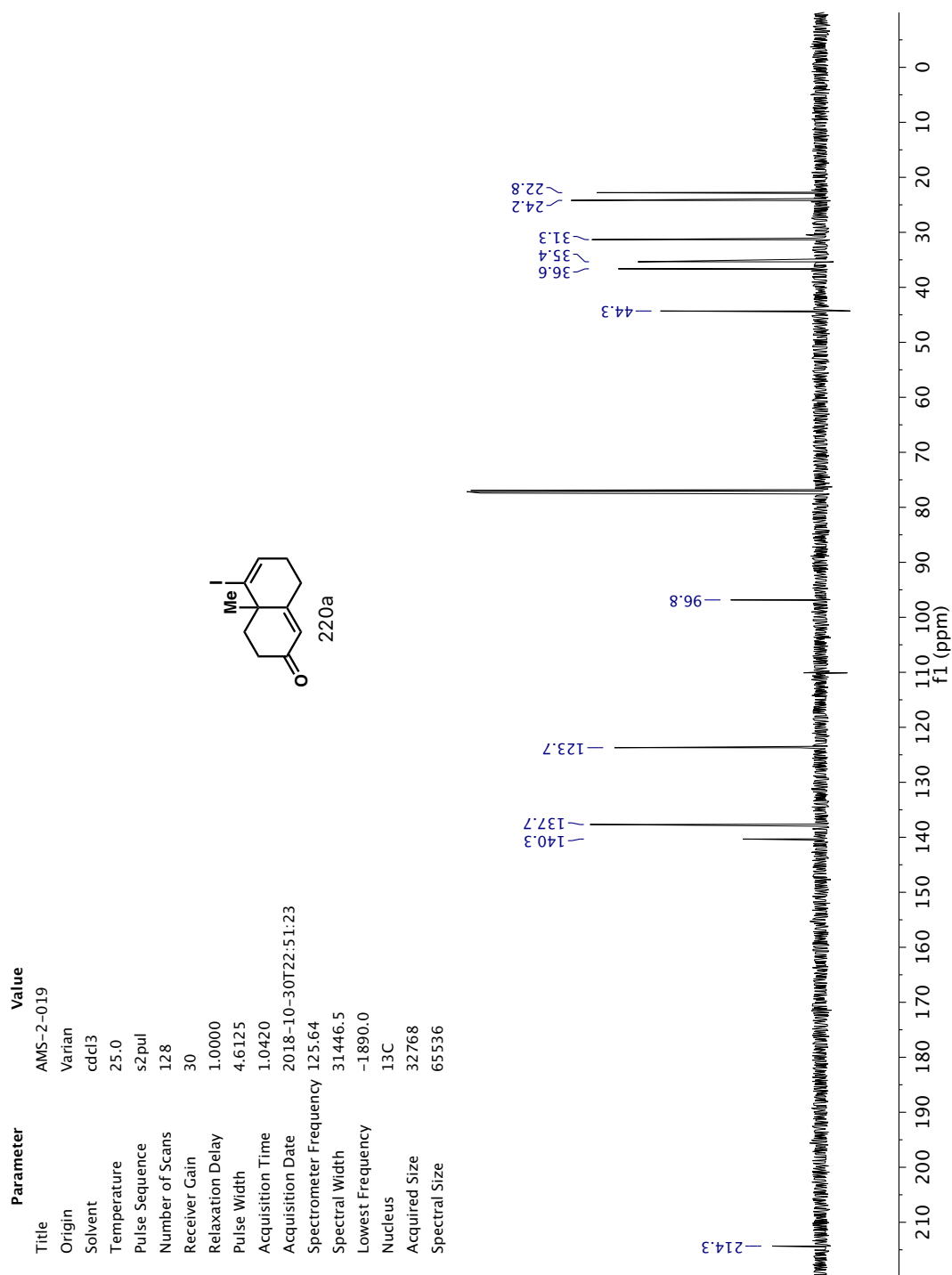


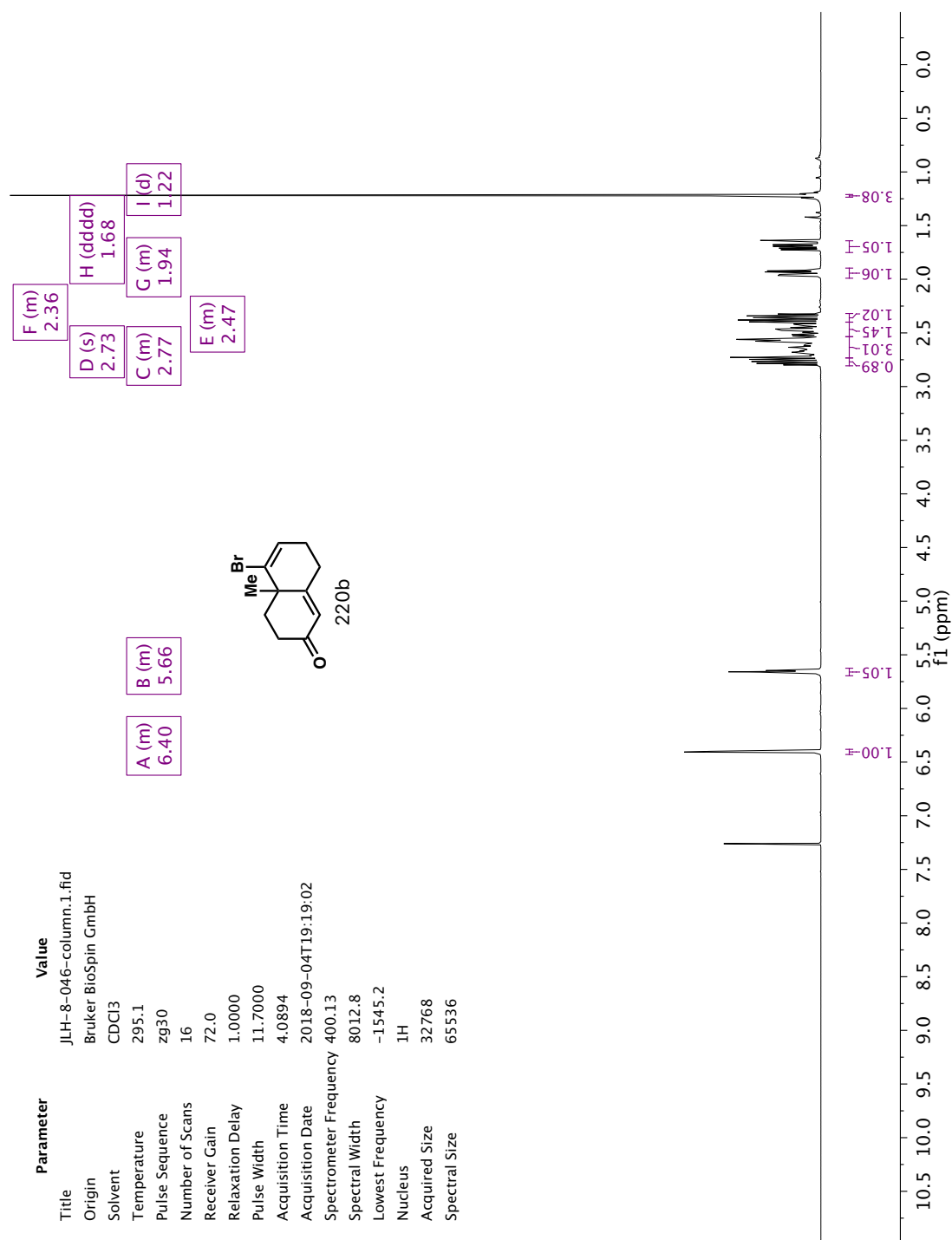




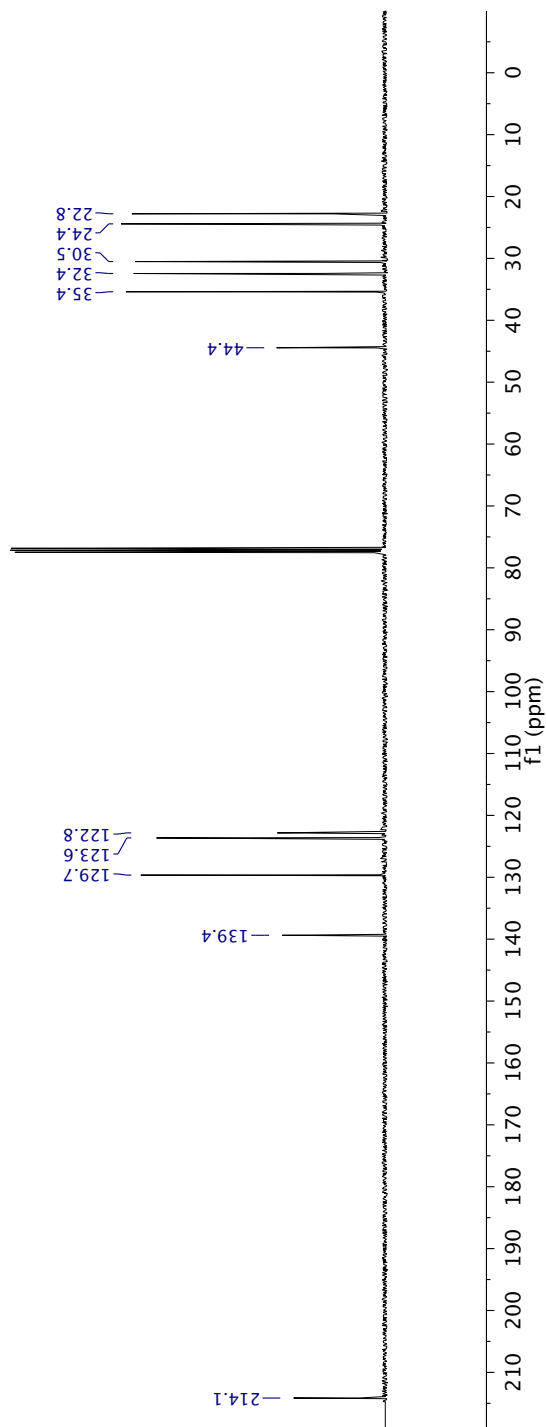
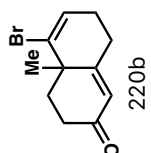


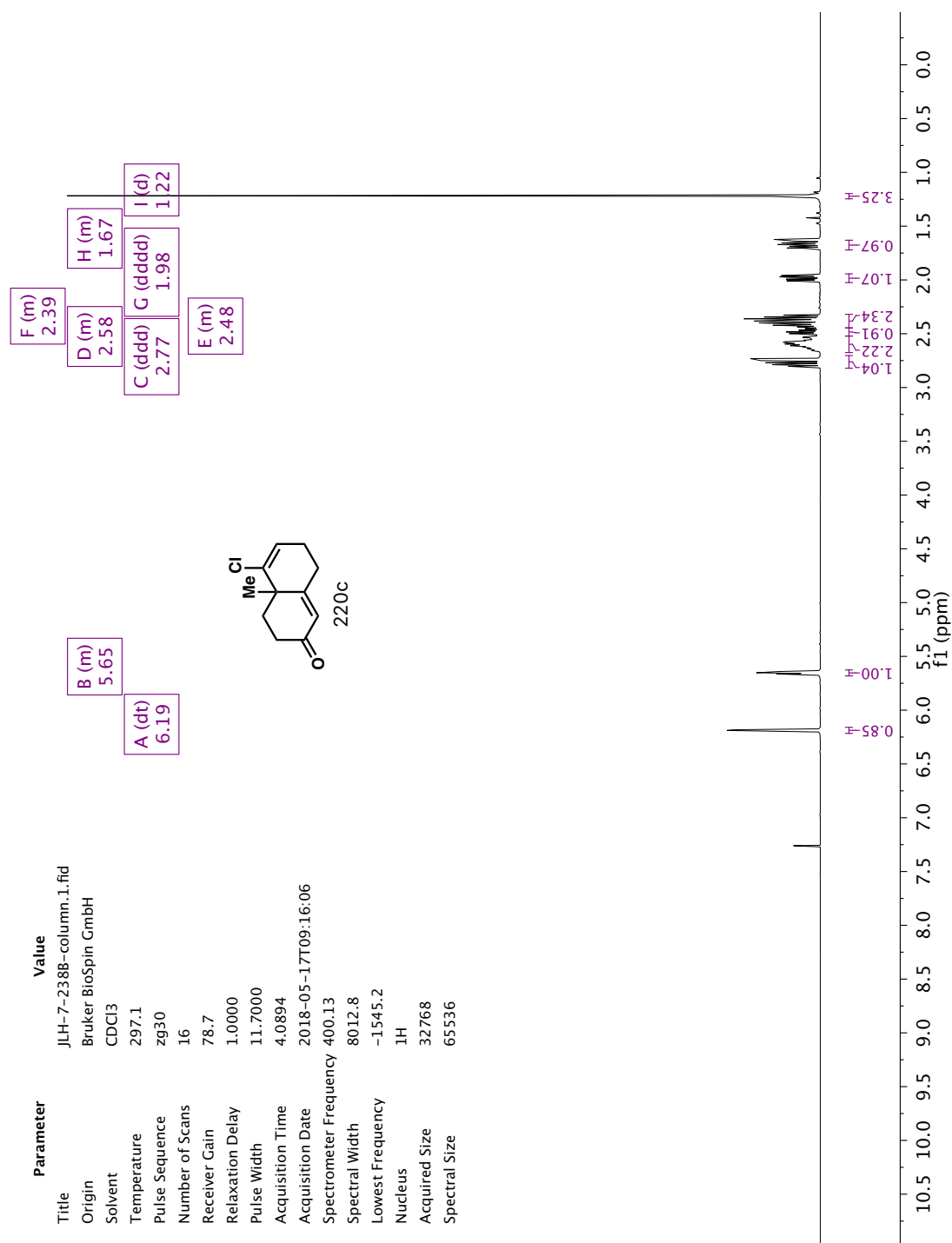


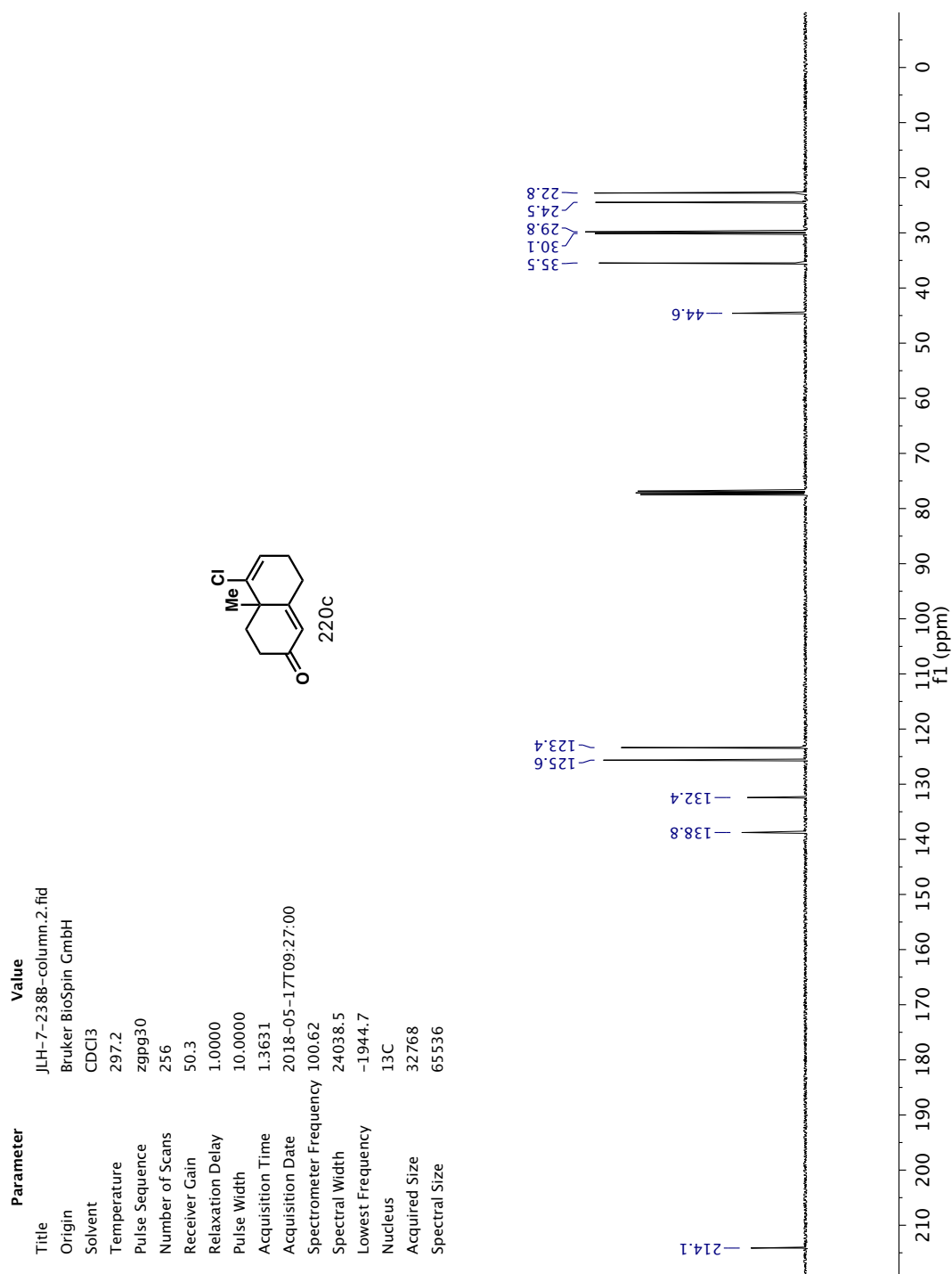


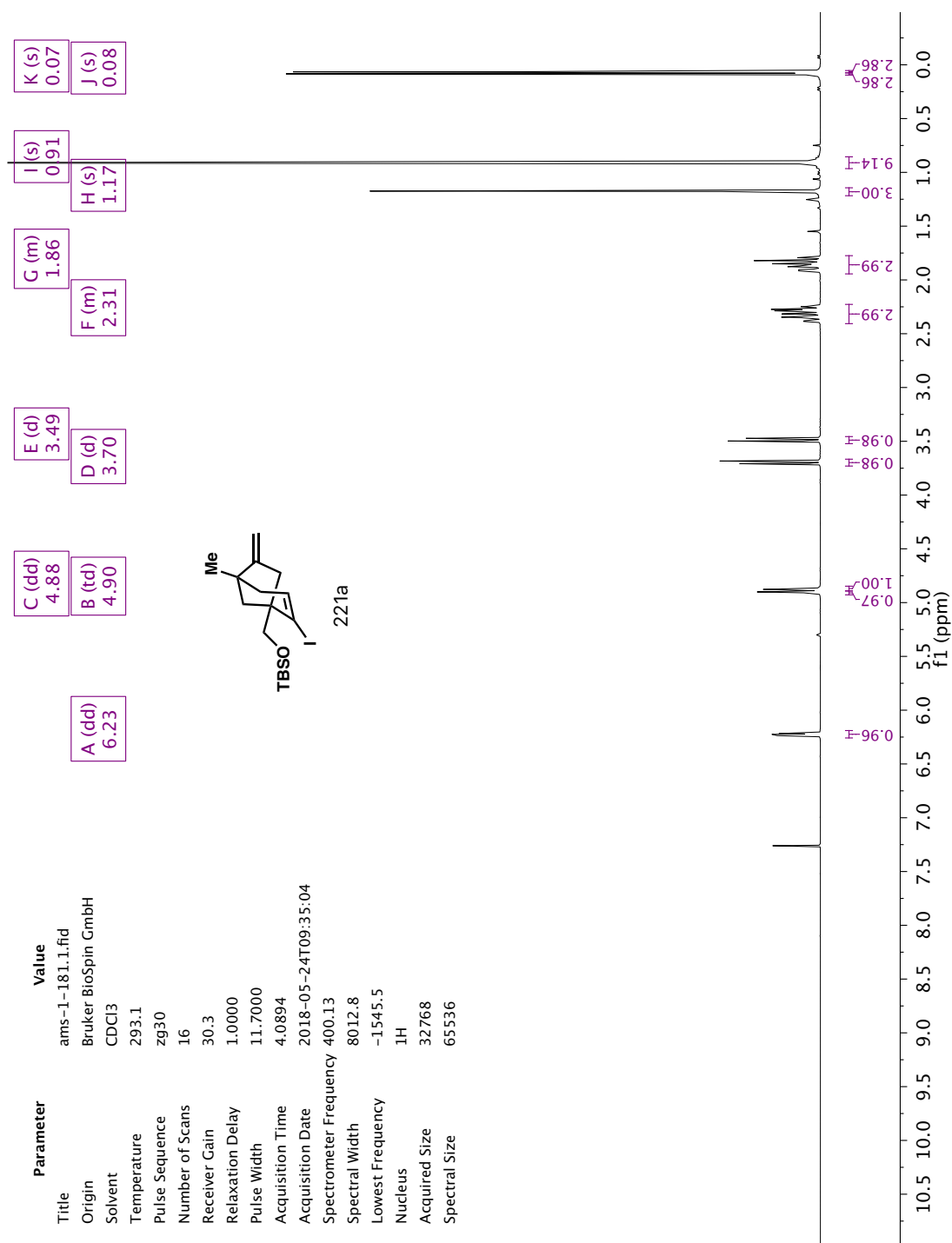


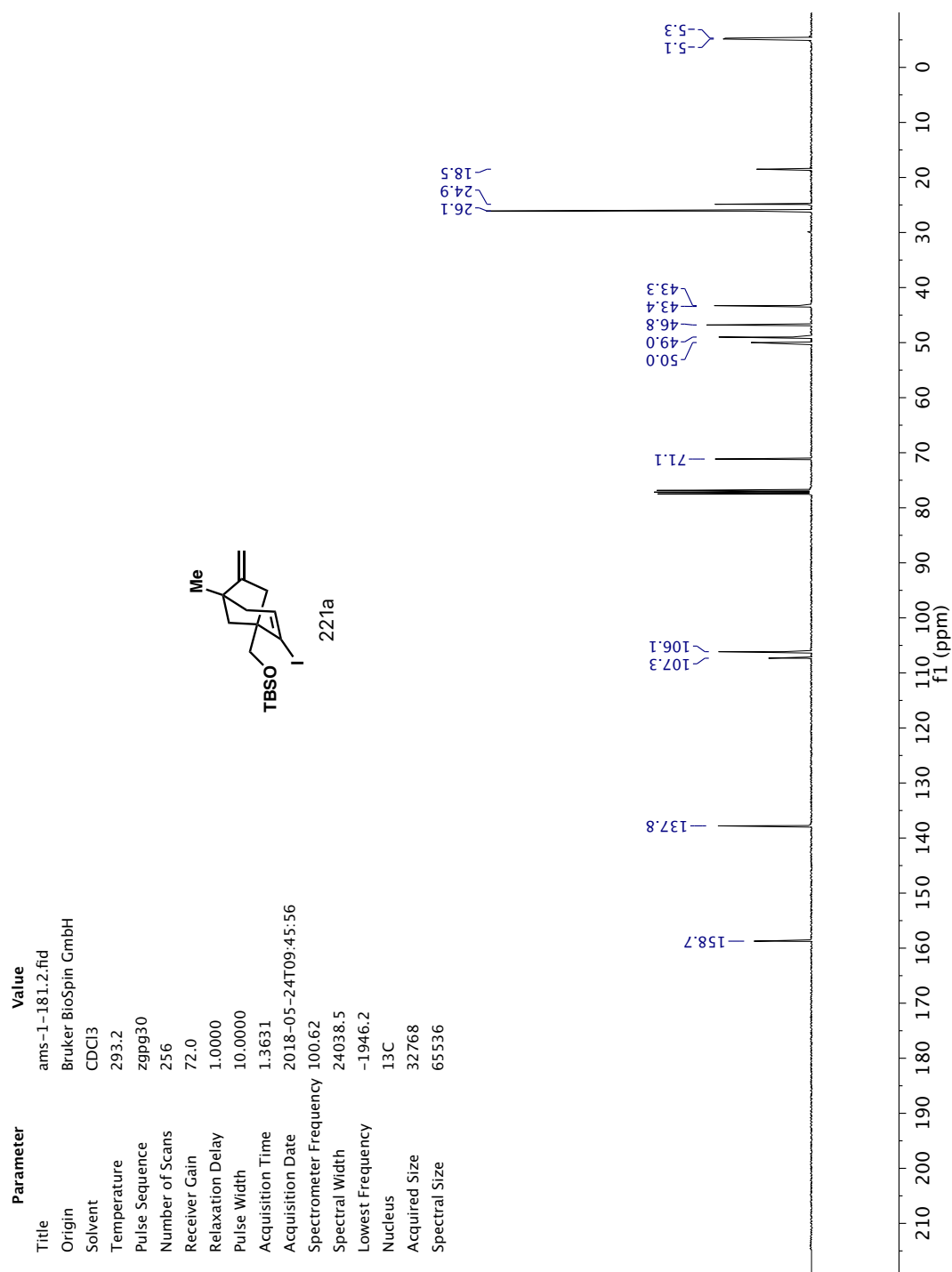
Parameter	Value
Title	JLH-8-046-column.2.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl ₃
Temperature	295.1
Pulse Sequence	zgpg30
Number of Scans	128
Receiver Gain	64.2
Relaxation Delay	2.0000
Pulse Width	10.0000
Acquisition Time	1.3631
Acquisition Date	2018-09-04T19:27:35
Spectrometer Frequency	100.62
Spectral Width	24038.5
Lowest Frequency	-1946.7
Nucleus	¹³ C
Acquired Size	32768
Spectral Size	65536

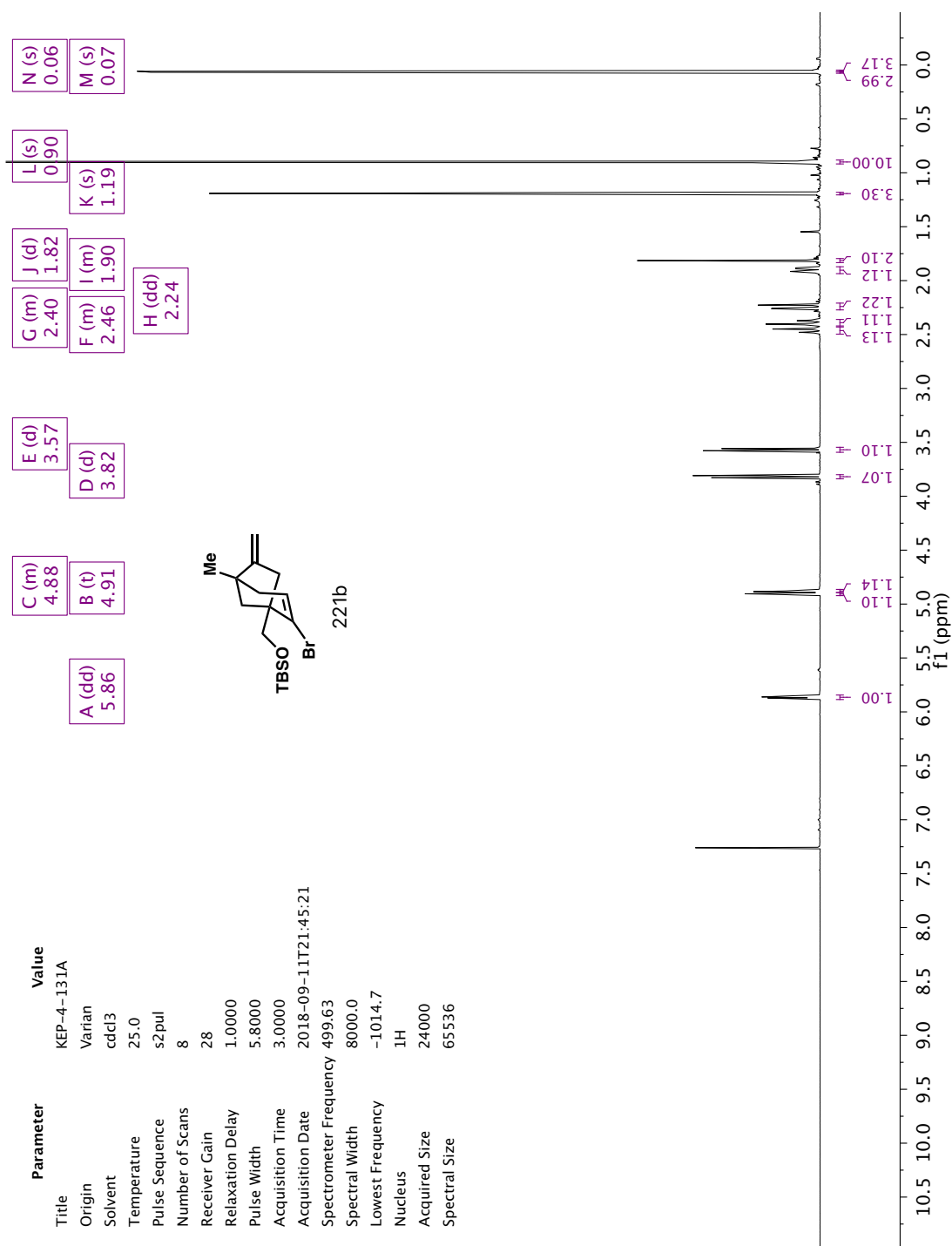


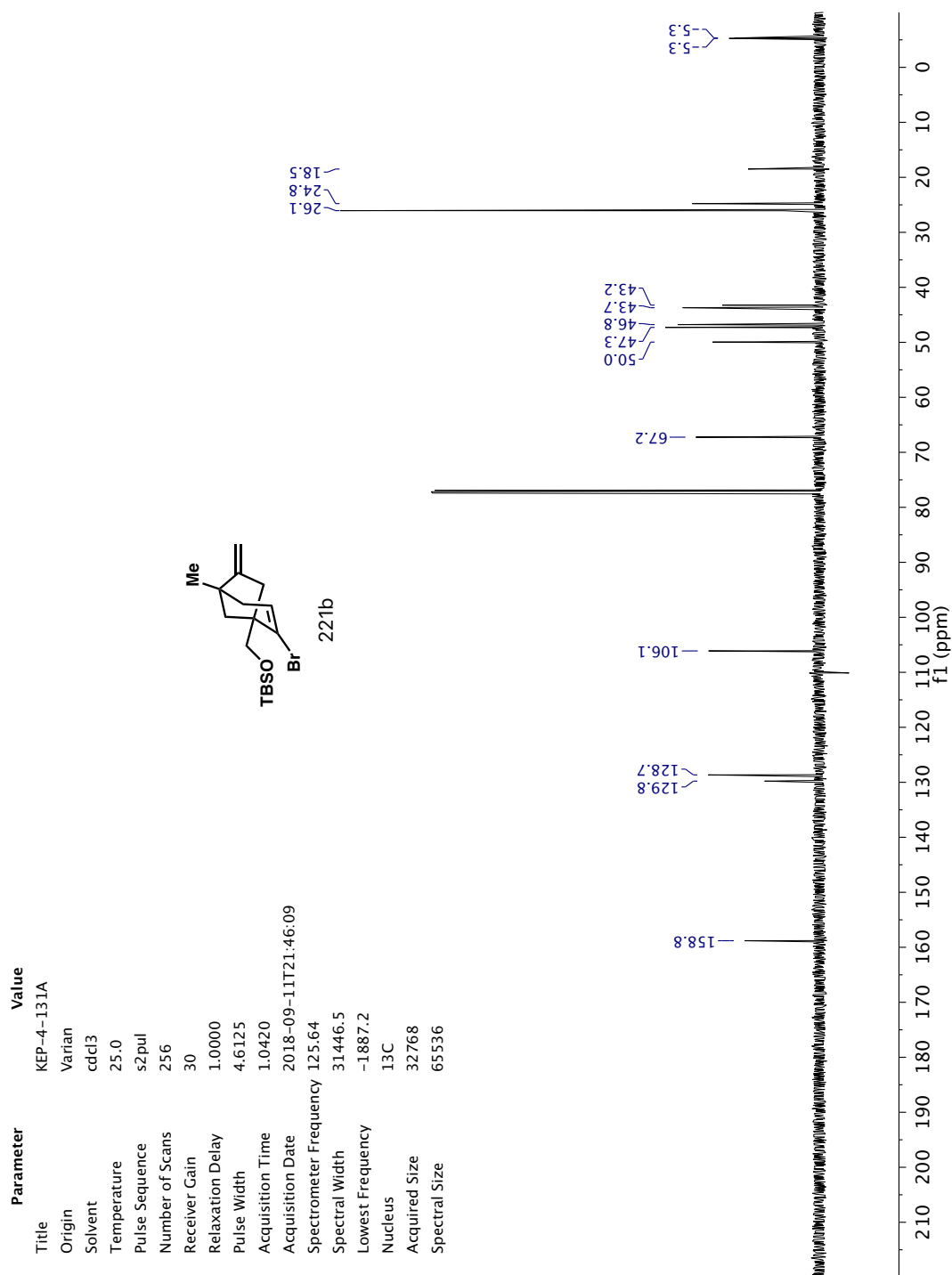


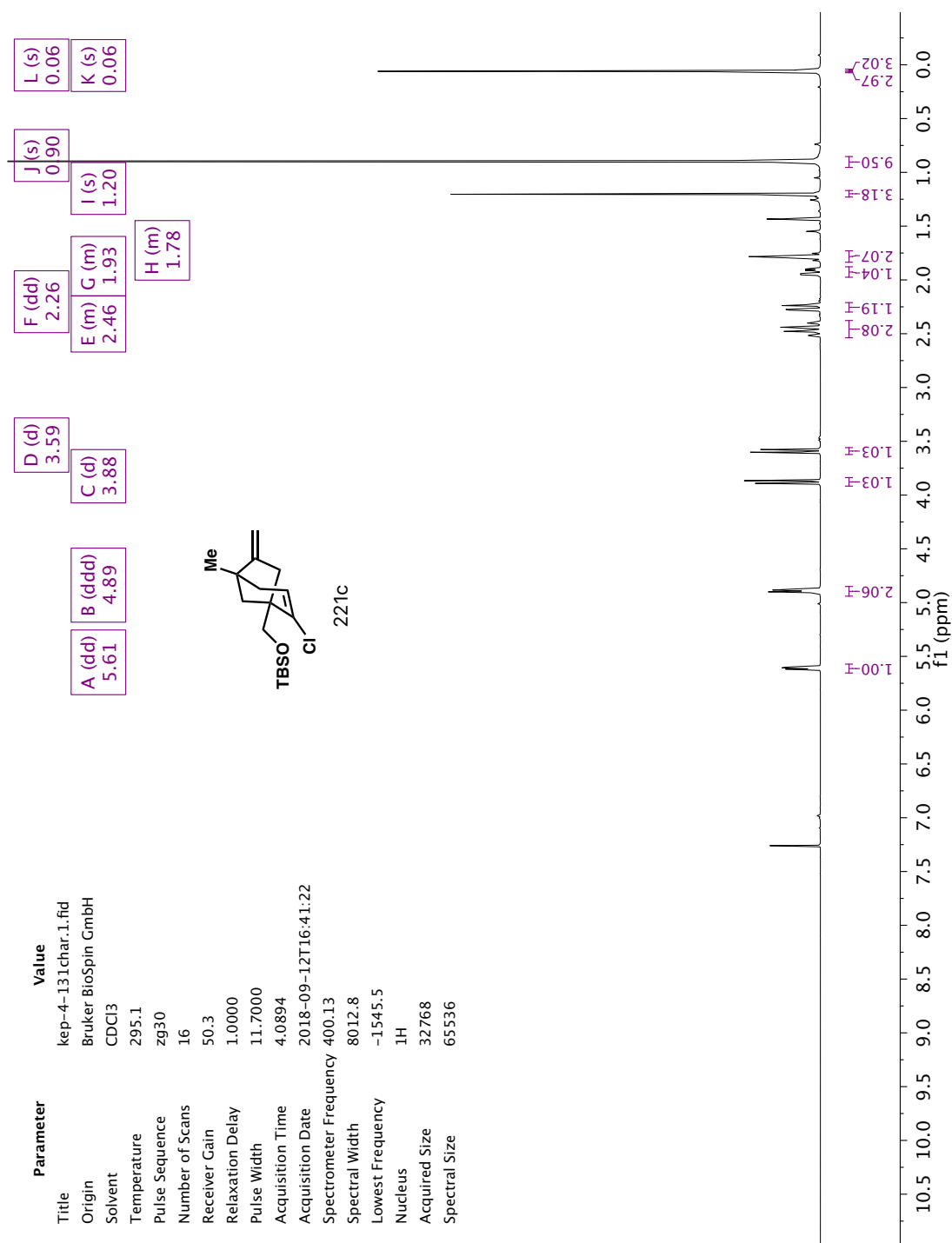


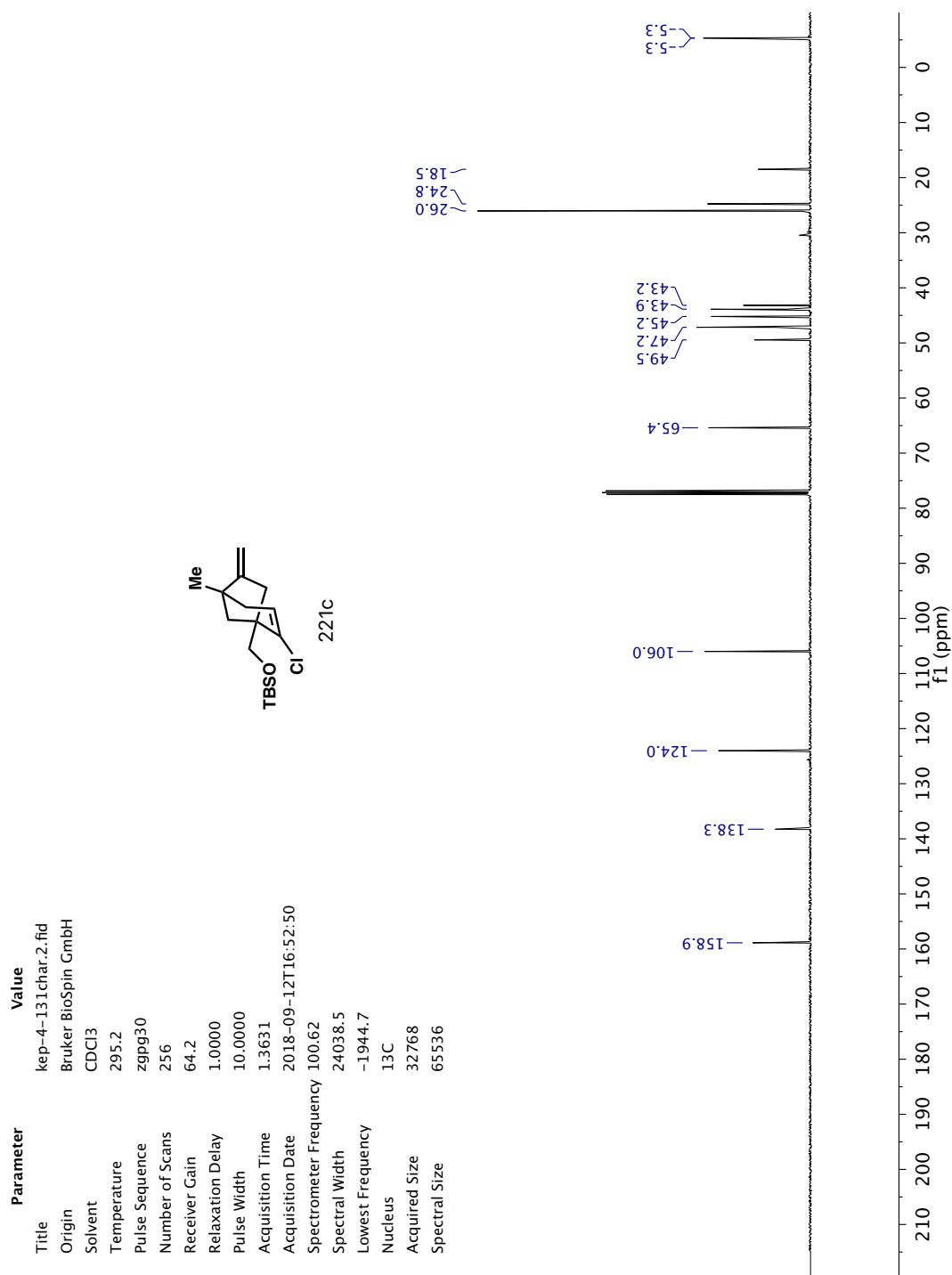


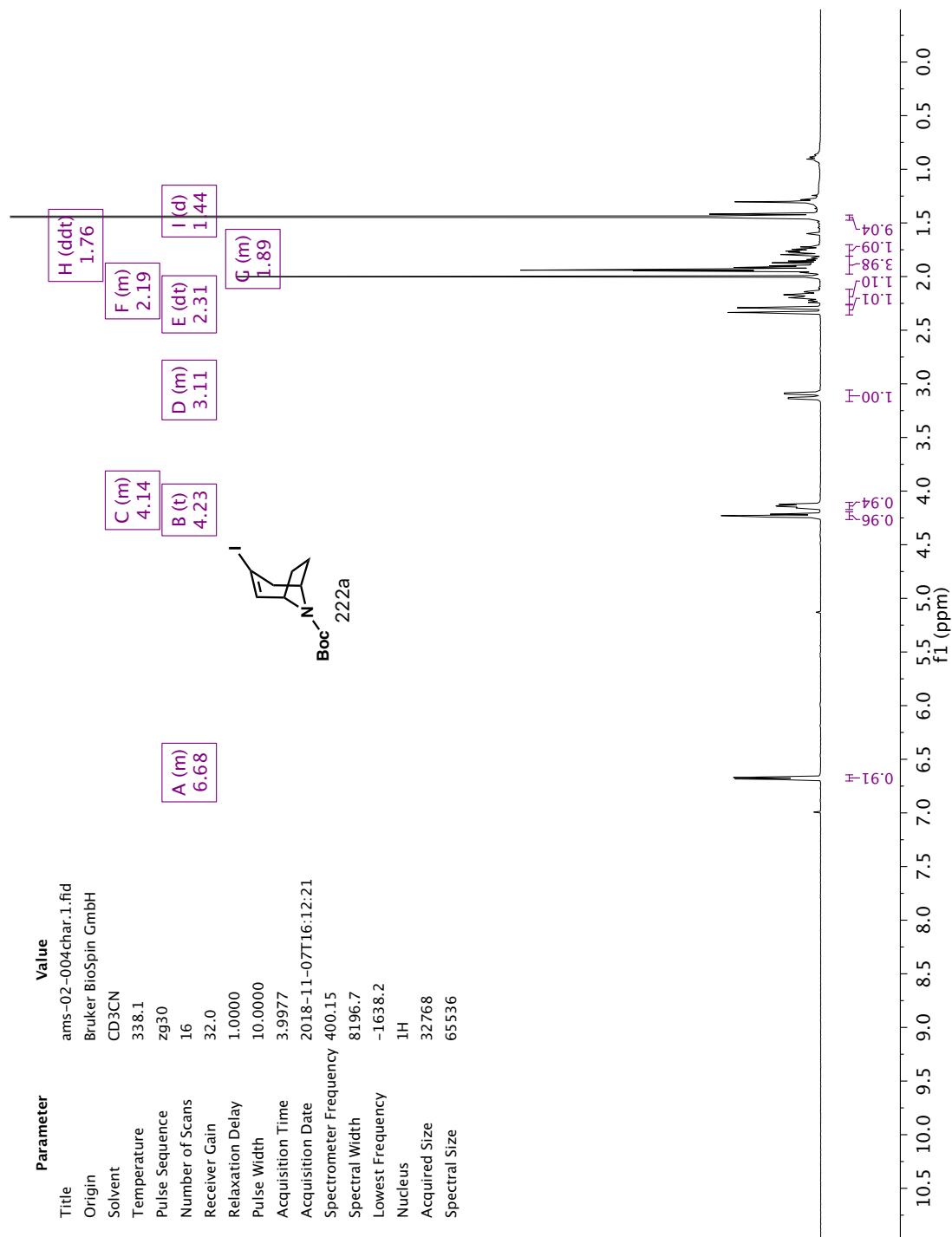


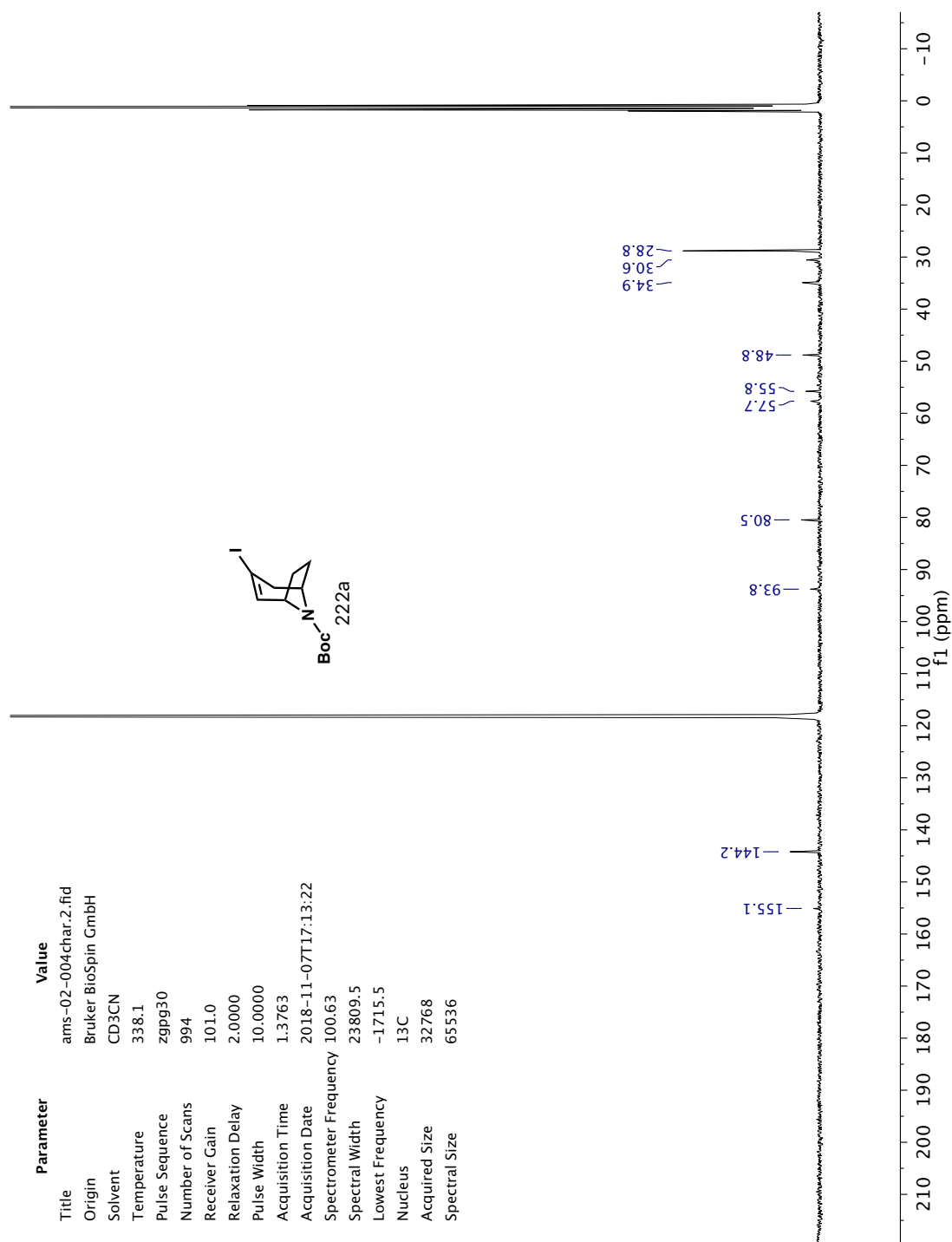


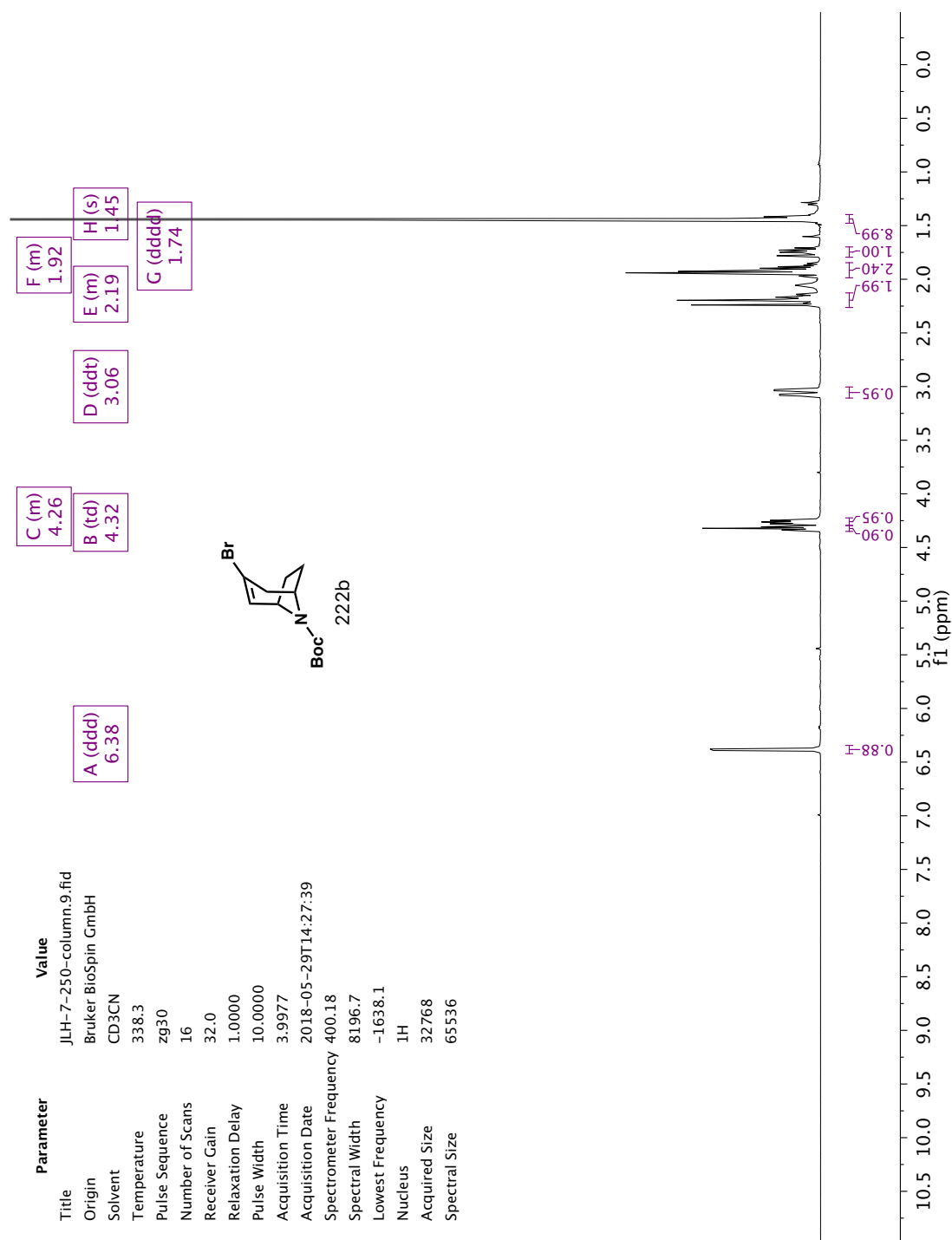


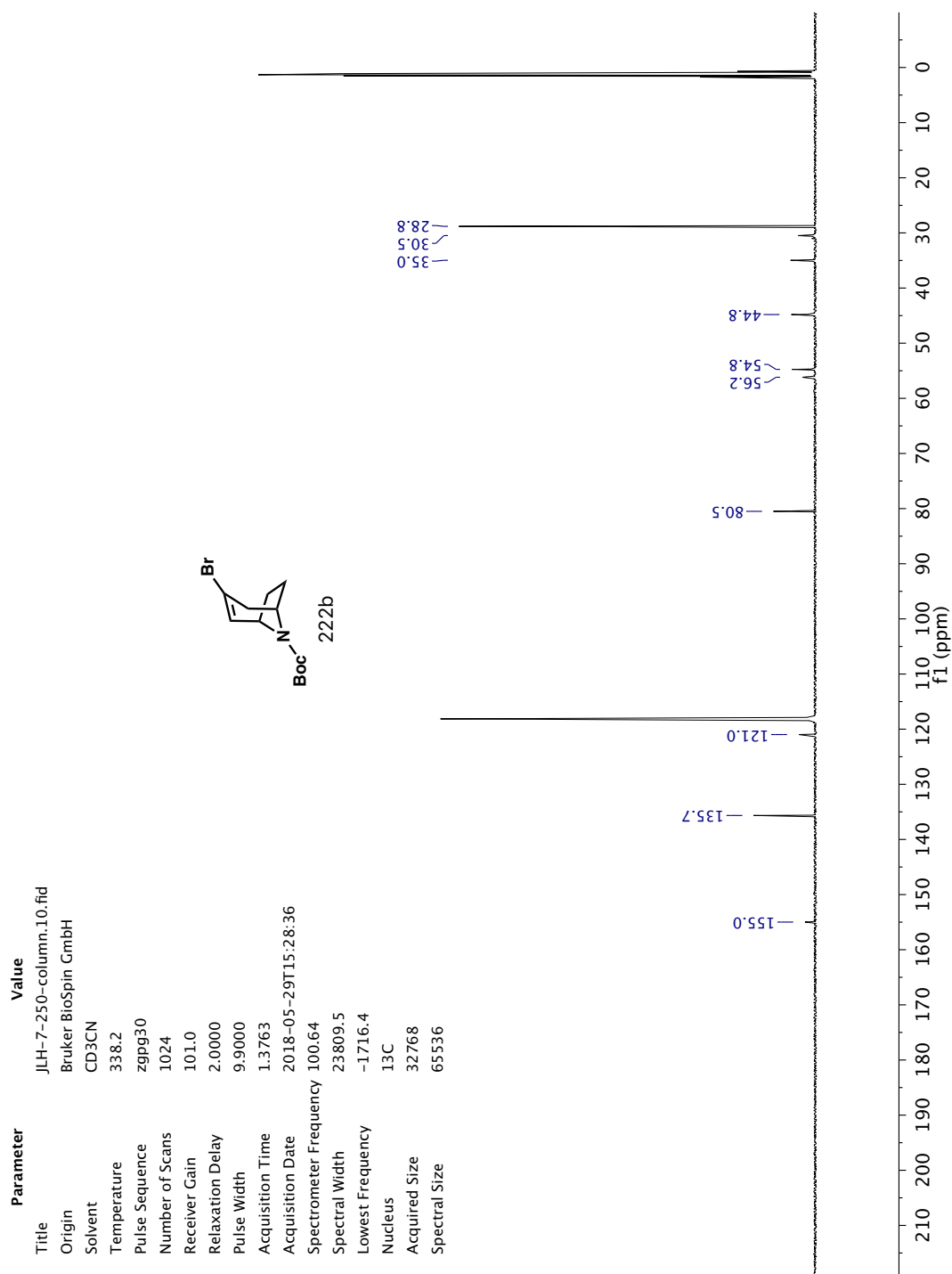


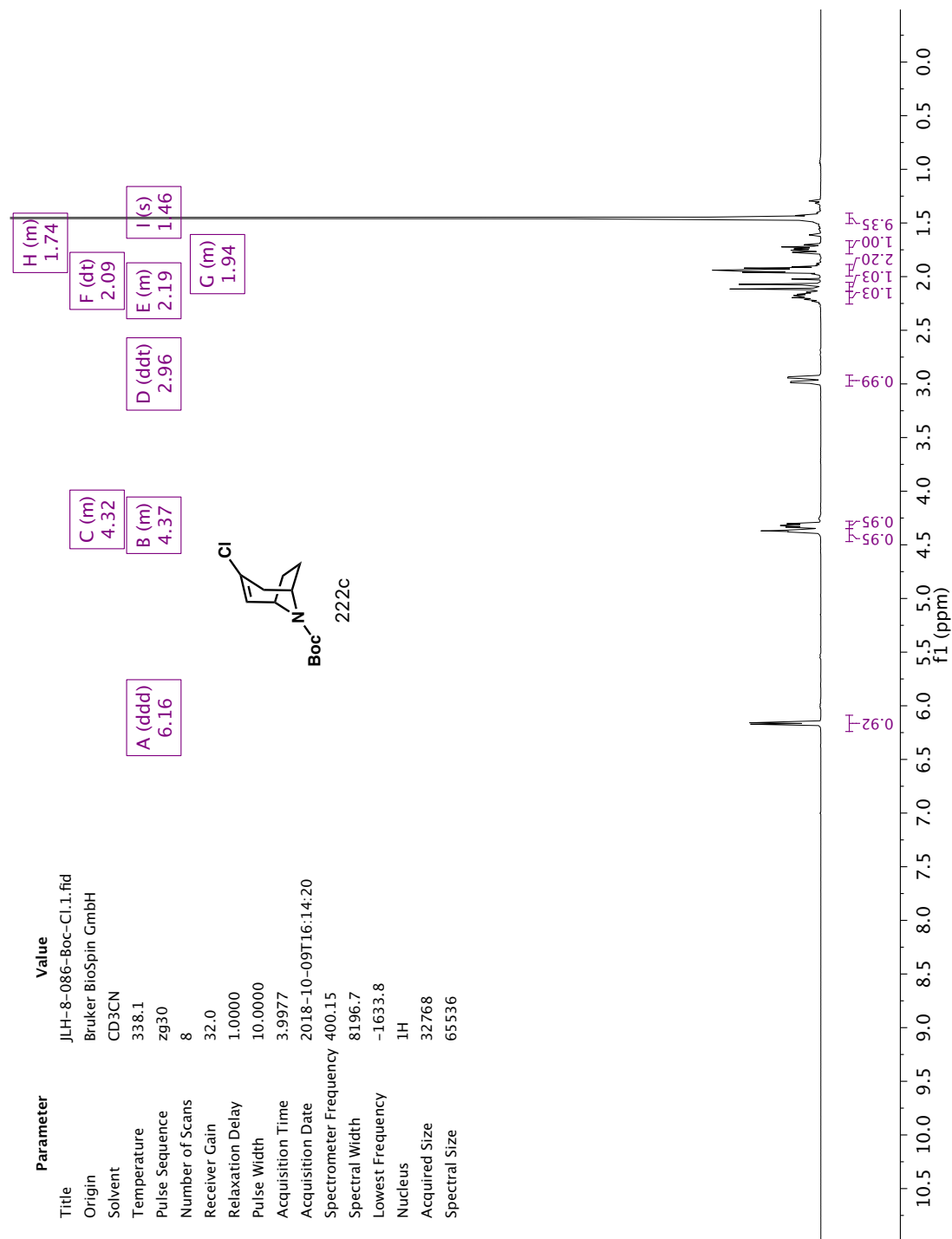


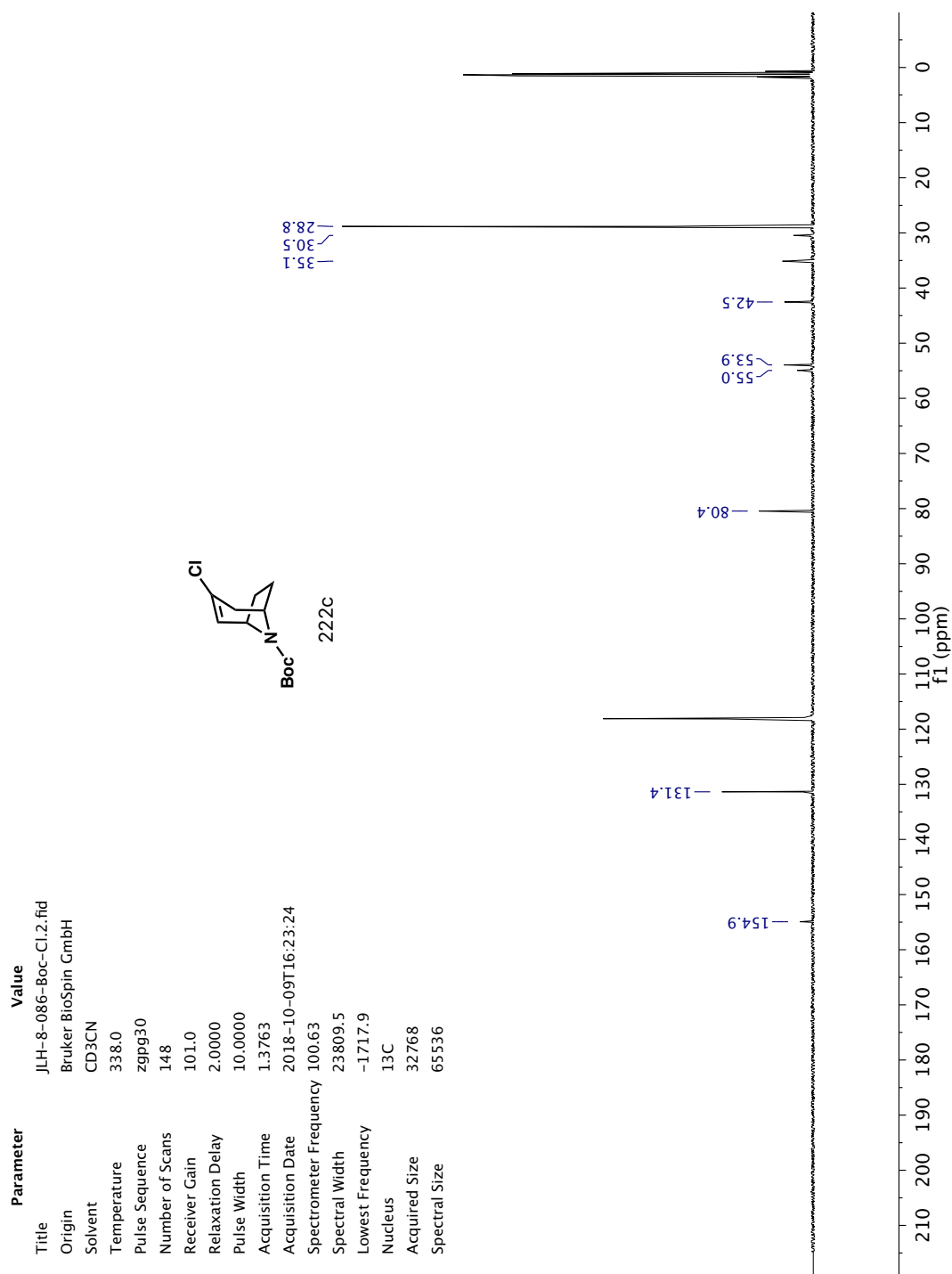


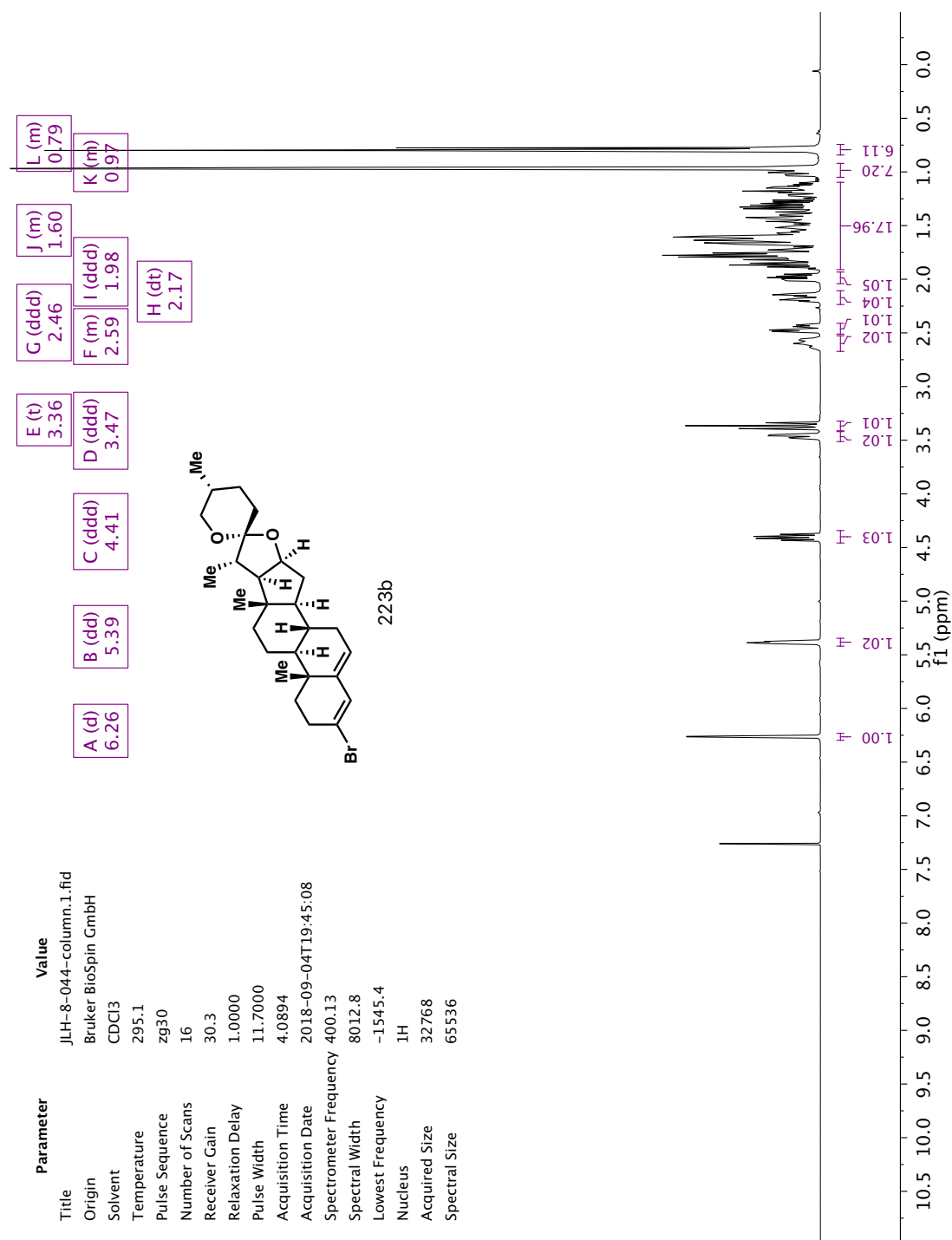


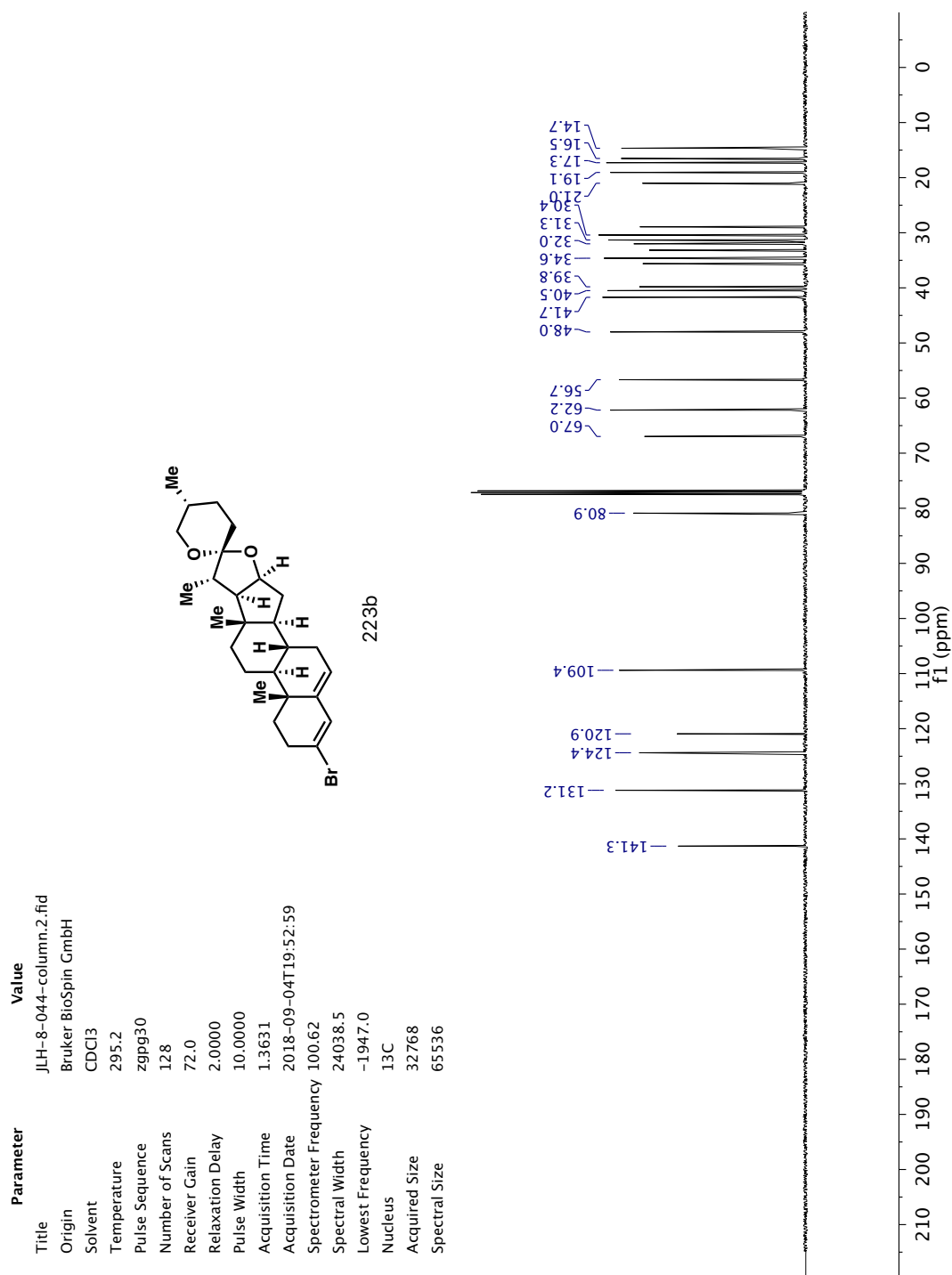


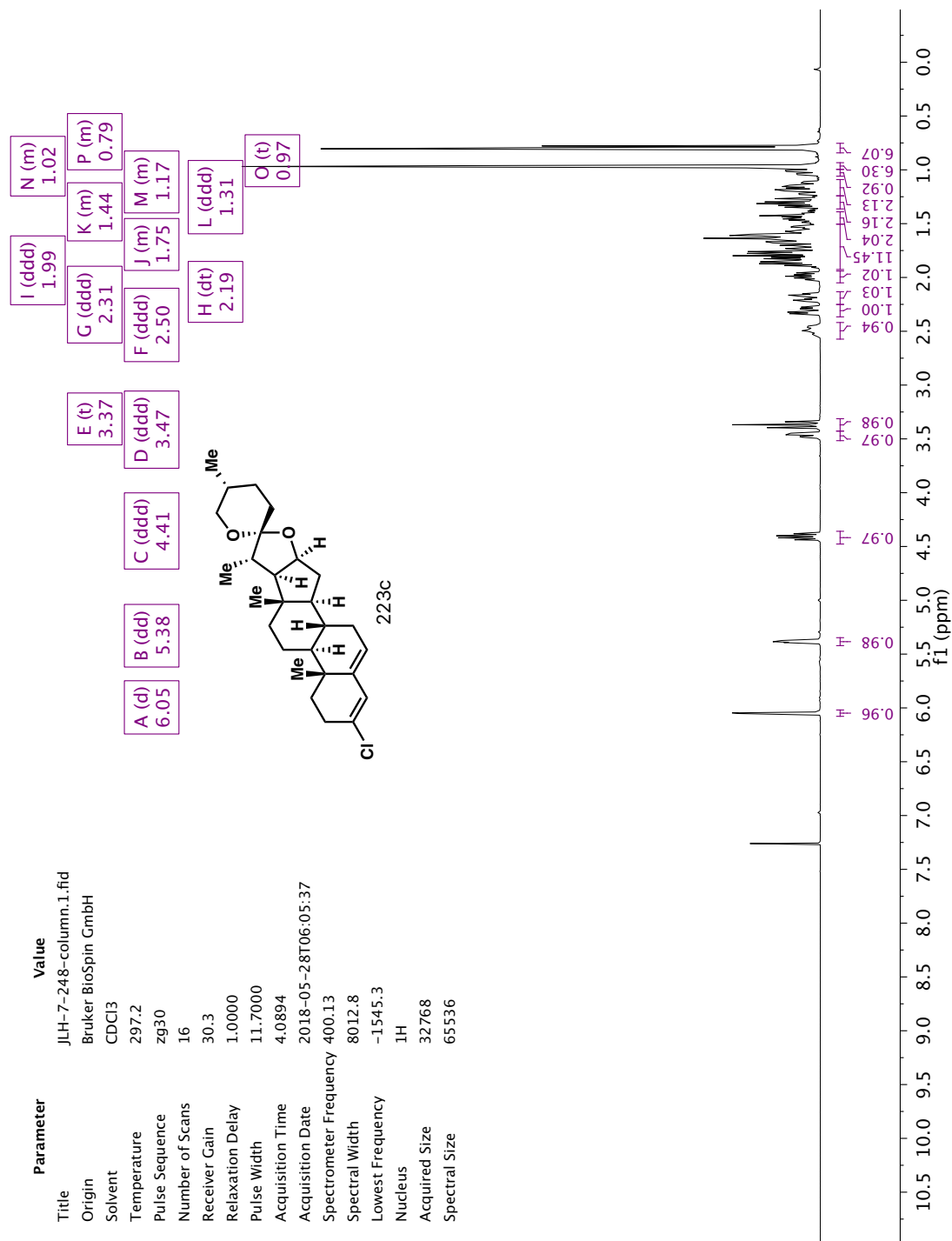




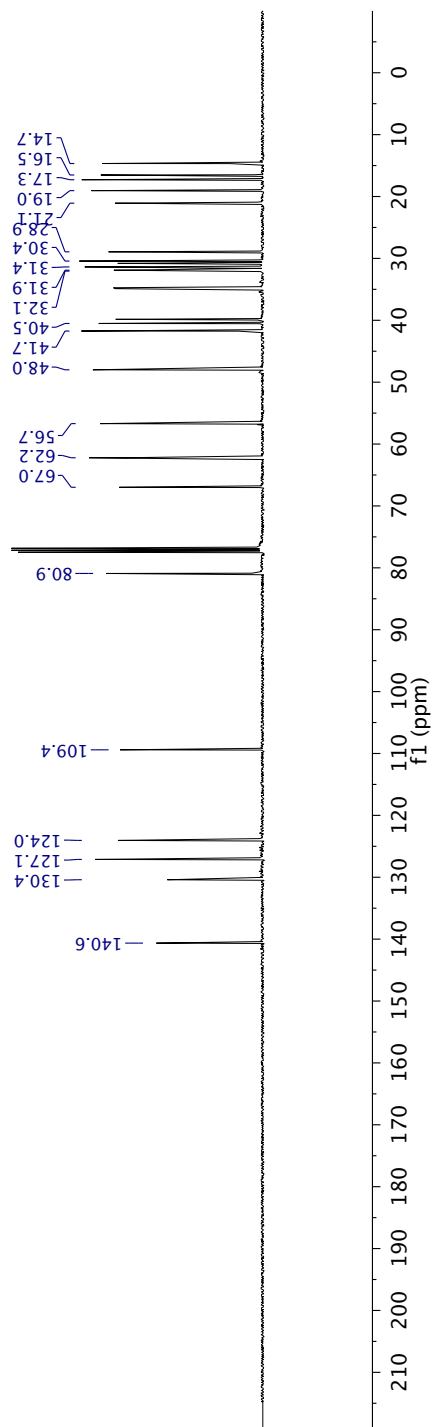
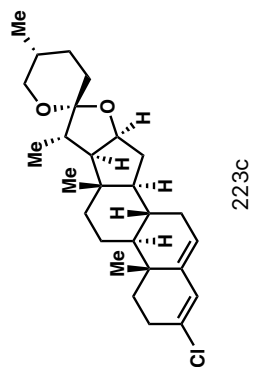




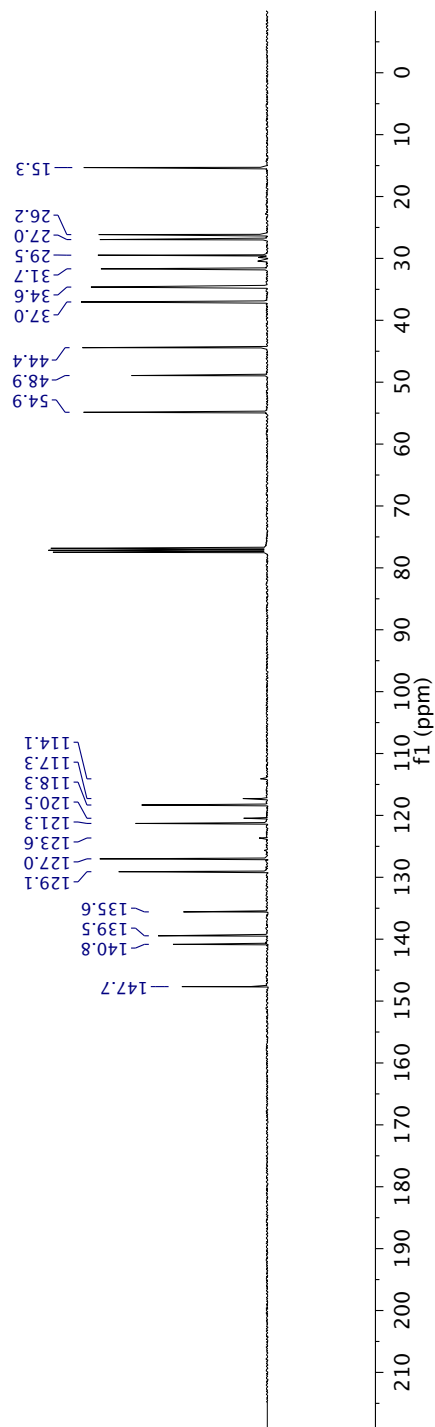
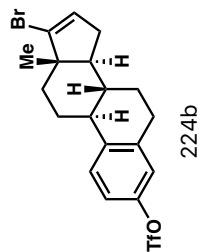


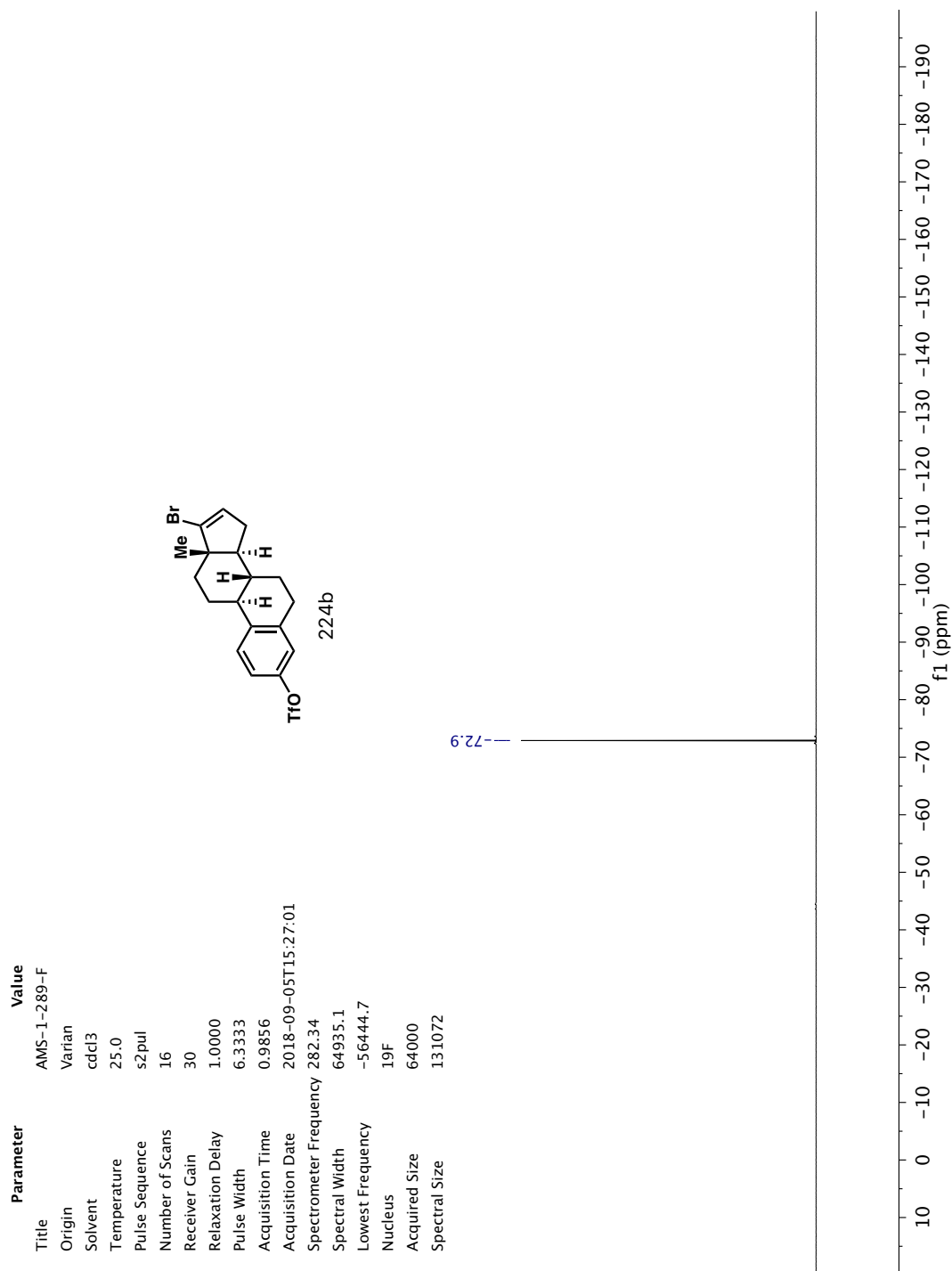


Parameter	Value
Title	JLH-7-248-column.2.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl ₃
Temperature	297.1
Pulse Sequence	zgpg30
Number of Scans	256
Receiver Gain	72.0
Relaxation Delay	1.0000
Pulse Width	10.0000
Acquisition Time	1.3631
Acquisition Date	2018-05-28T06:16:29
Spectrometer Frequency	100.62
Spectral Width	24038.5
Lowest Frequency	-1946.0
Nucleus	¹³ C
Acquired Size	32768
Spectral Size	65536

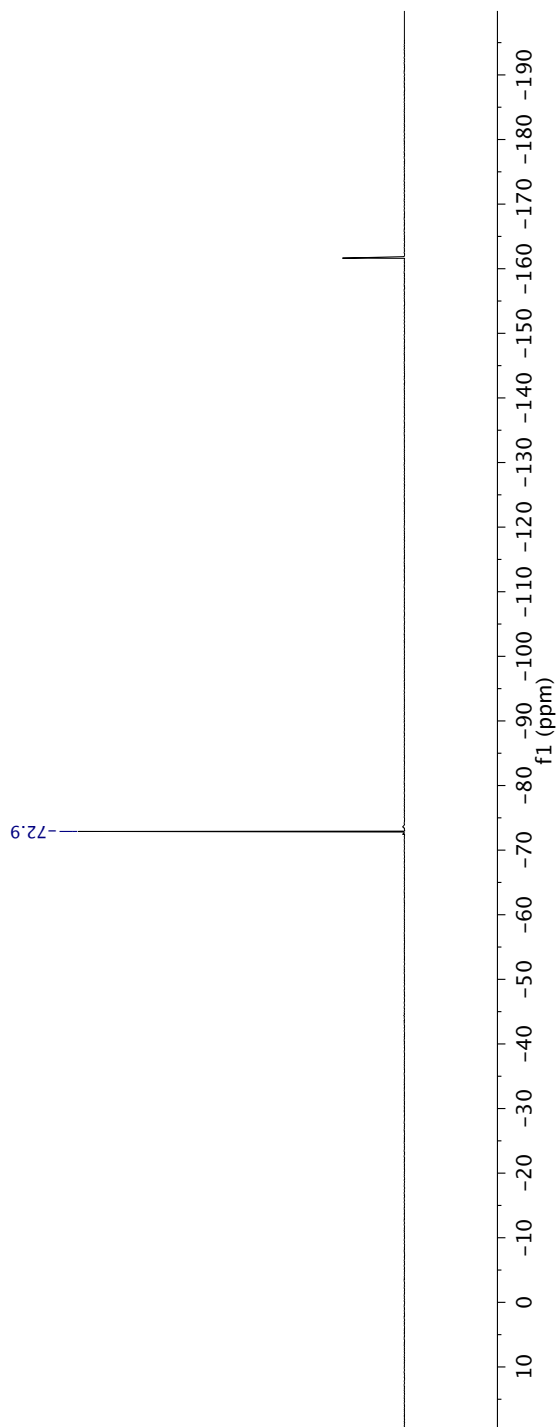
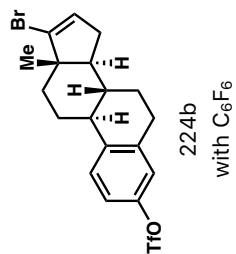


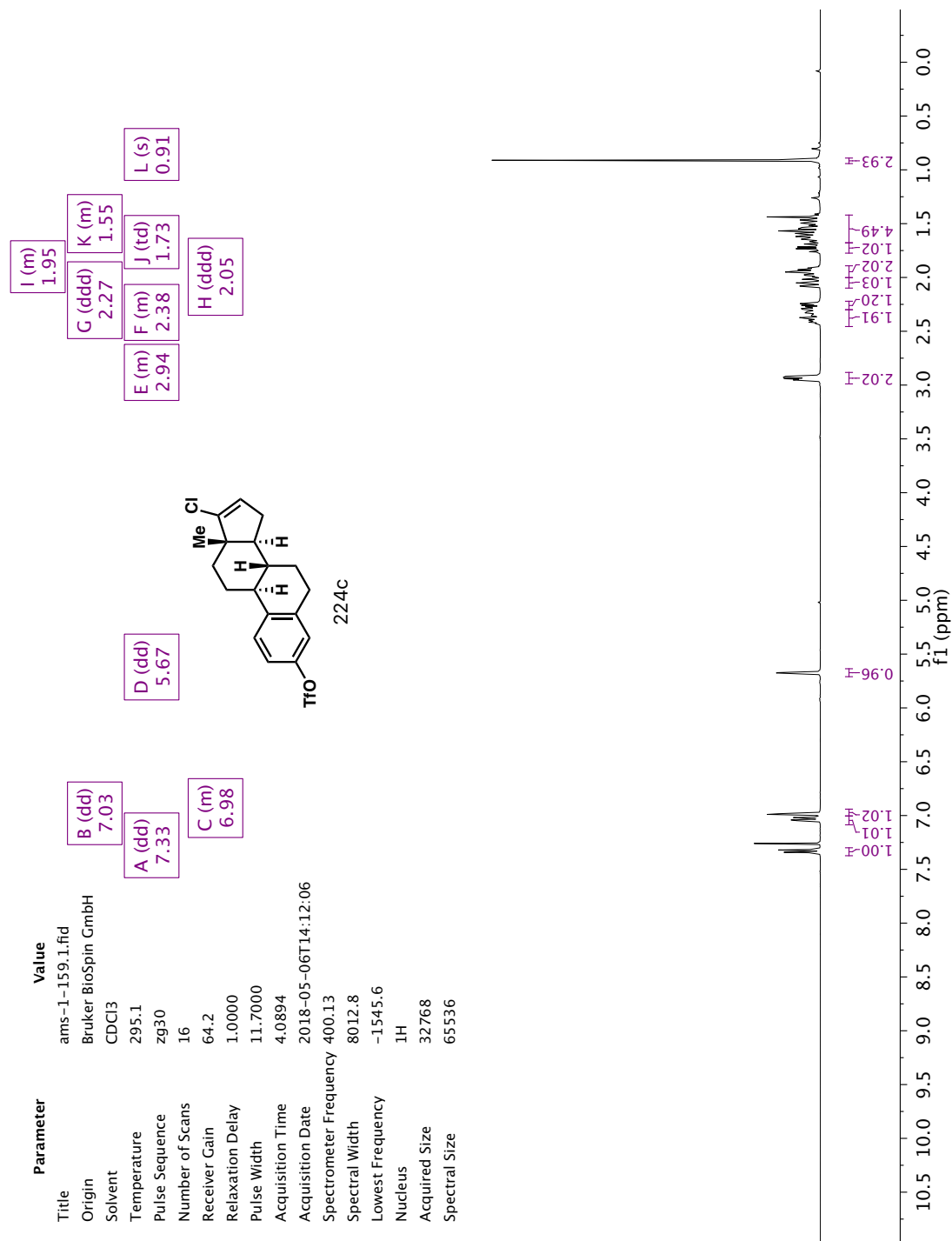
Parameter	Value
Title	ams-1-289char.2.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl ₃
Temperature	295.2
Pulse Sequence	zgpg30
Number of Scans	512
Receiver Gain	72.0
Relaxation Delay	1.0000
Pulse Width	10.0000
Acquisition Time	1.3631
Acquisition Date	2018-09-05T17:36:09
Spectrometer Frequency	100.62
Spectral Width	24038.5
Lowest Frequency	-1947.2
Nucleus	¹³ C
Acquired Size	32768
Spectral Size	65536

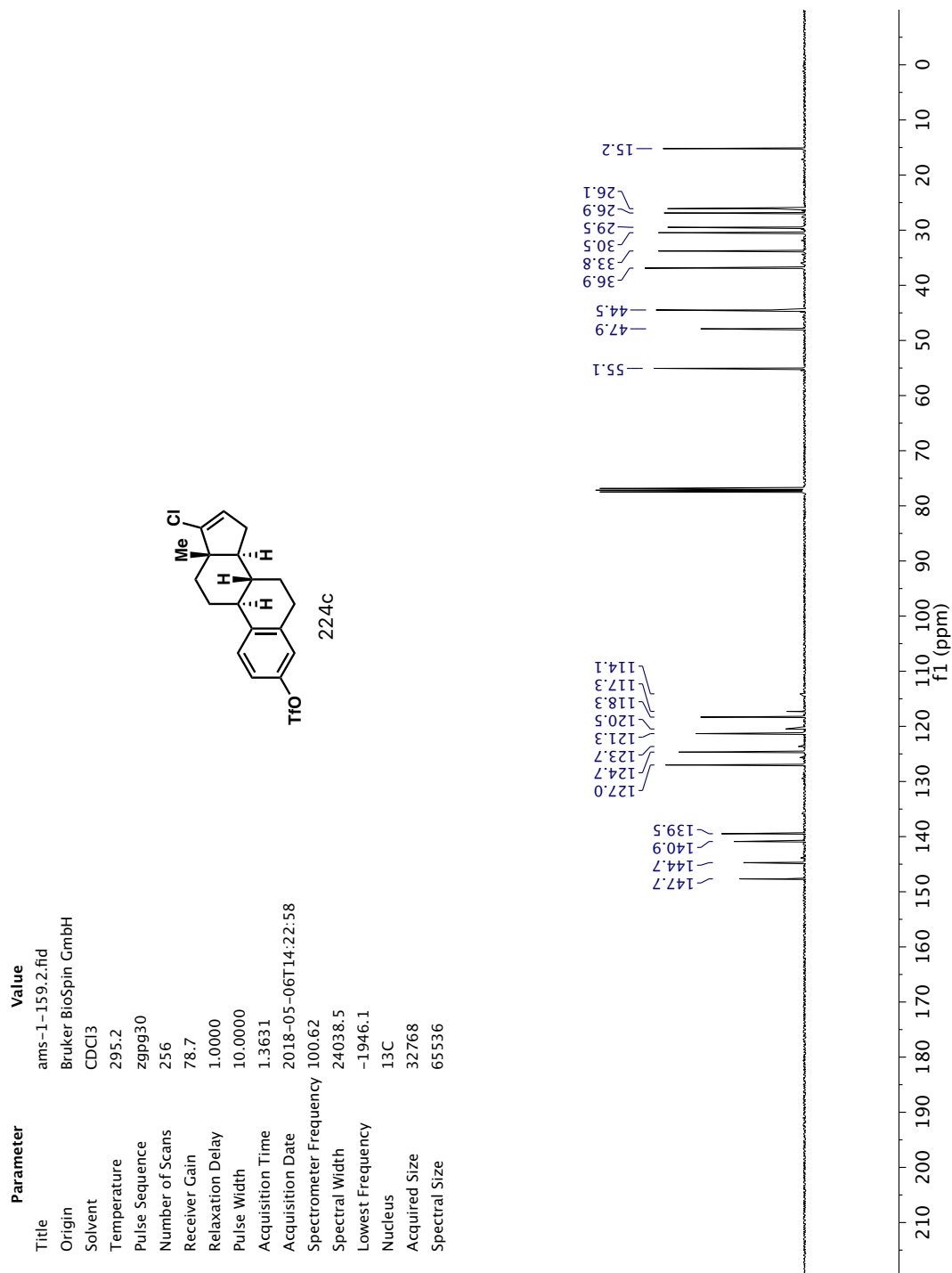




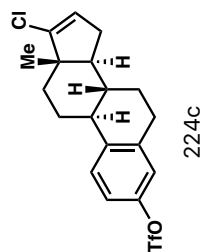
Parameter	Value
Title	AMS-1-289-F-std
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	16
Receiver Gain	30
Relaxation Delay	1.0000
Pulse Width	6.3333
Acquisition Time	0.9856
Acquisition Date	2018-09-10T23:58:01
Spectrometer Frequency	282.34
Spectral Width	64935.1
Lowest Frequency	-56442.5
Nucleus	19F
Acquired Size	64000
Spectral Size	131072







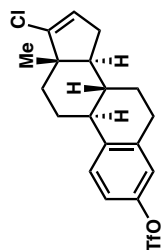
Parameter	Value
Title	AMS-1-159-F
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	16
Receiver Gain	30
Relaxation Delay	1.0000
Pulse Width	6.3333
Acquisition Time	0.9856
Acquisition Date	2018-06-14T01:56:19
Spectrometer Frequency	282.34
Spectral Width	64935.1
Lowest Frequency	-56468.7
Nucleus	19F
Acquired Size	64000
Spectral Size	131072



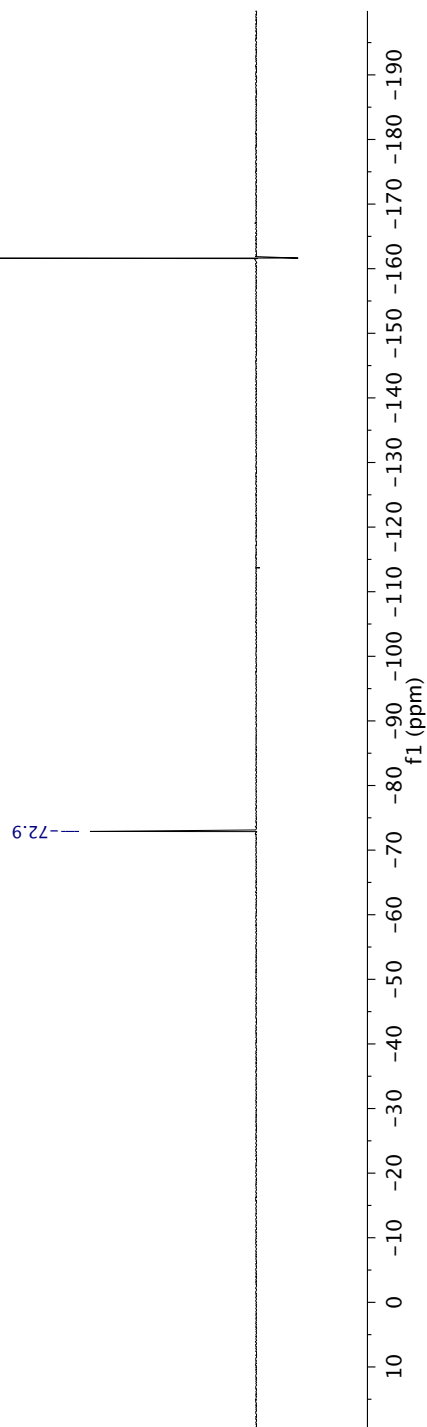
-72.9

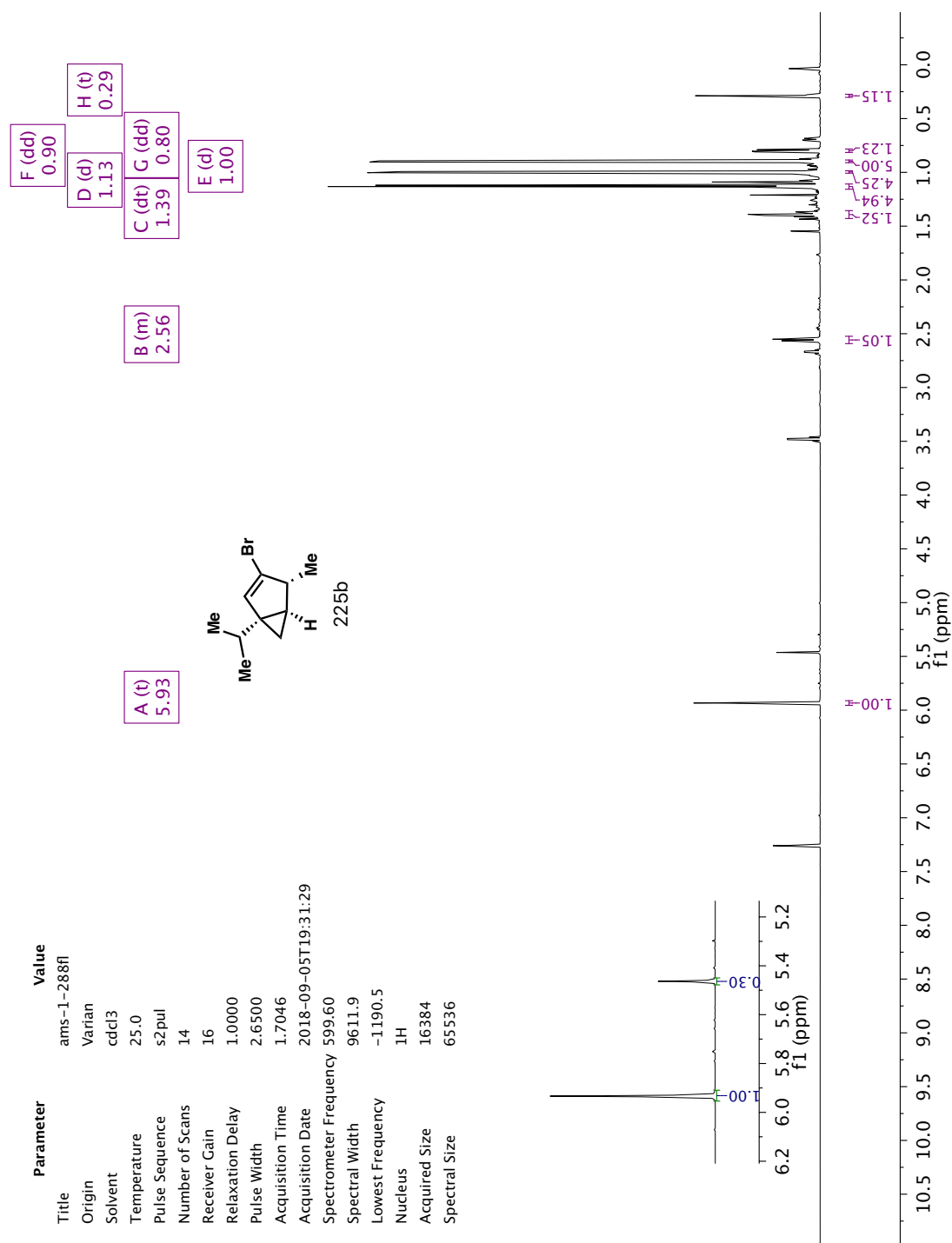
10 0 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100 -110 -120 -130 -140 -150 -160 -170 -180 -190
f1 (ppm)

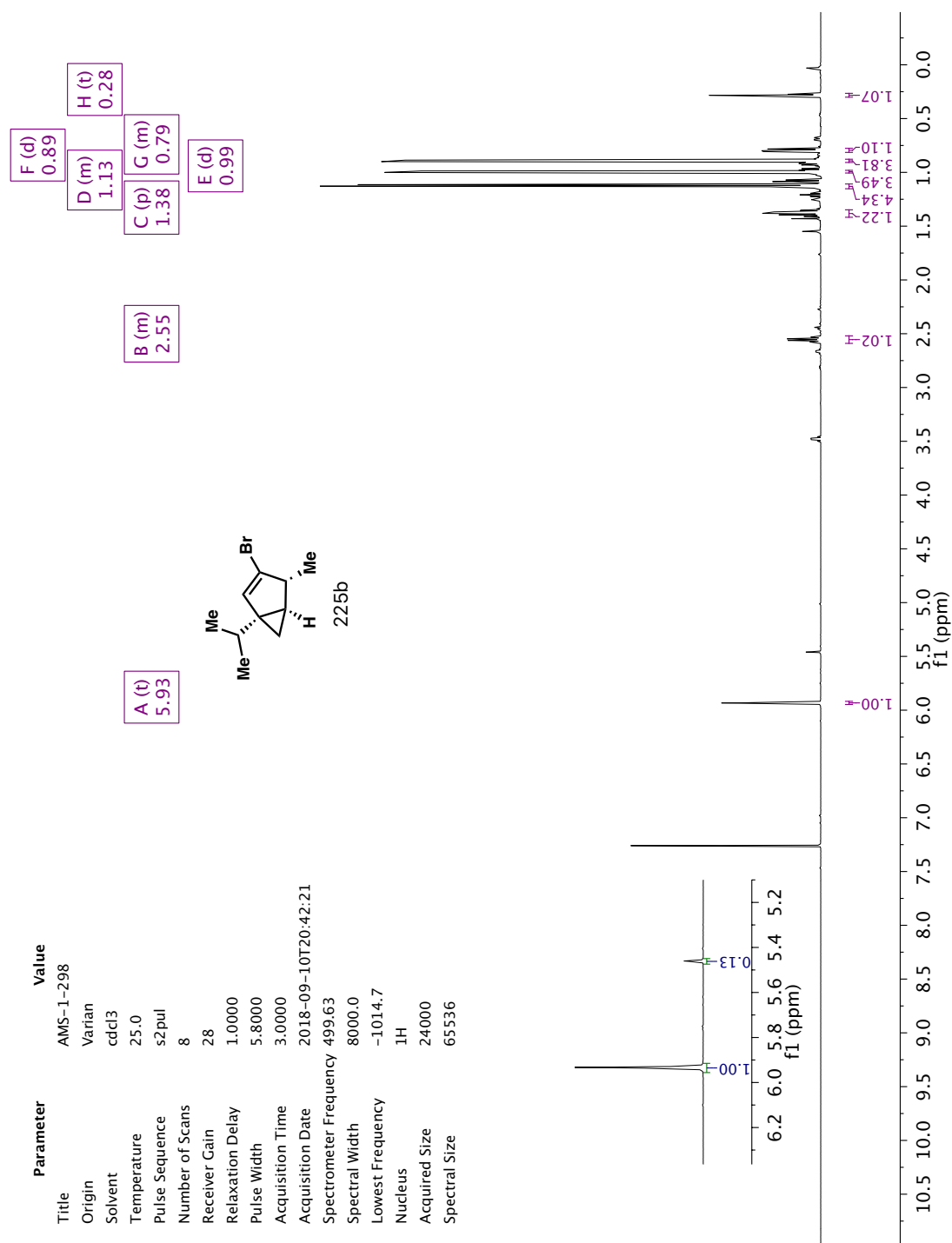
Parameter	Value
Title	AMS-1-159-F-C6F6
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	16
Receiver Gain	30
Relaxation Delay	1.0000
Pulse Width	6.3333
Acquisition Time	0.9856
Acquisition Date	2018-06-14T02:00:32
Spectrometer Frequency	282.34
Spectral Width	64935.1
Lowest Frequency	-56468.7
Nucleus	19F
Acquired Size	64000
Spectral Size	131072



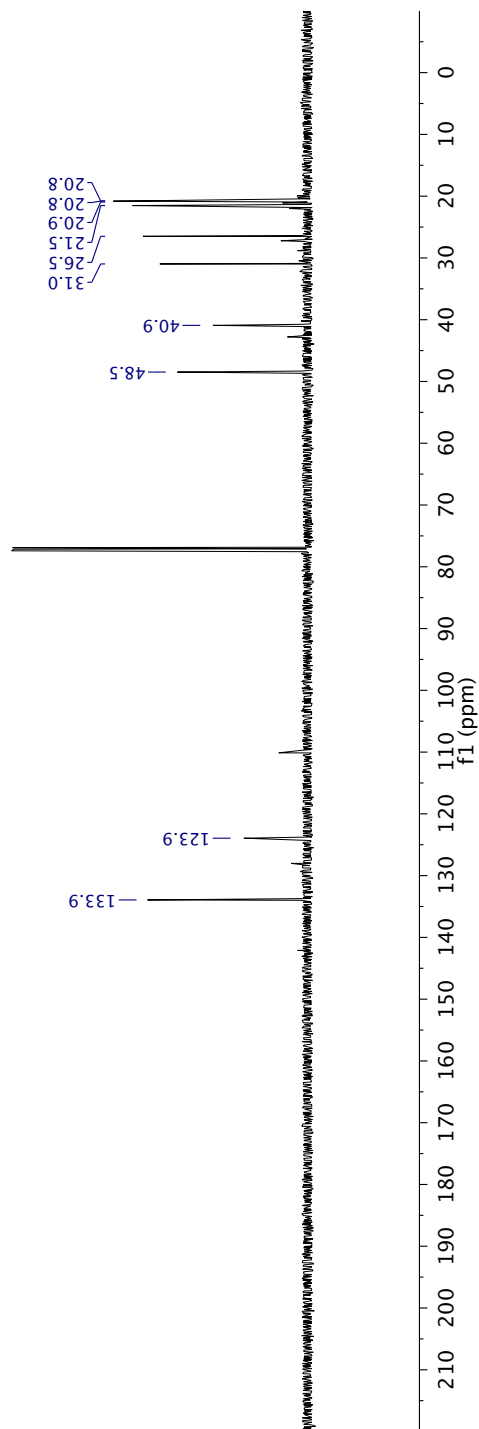
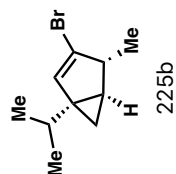
224c
with C₆F₆

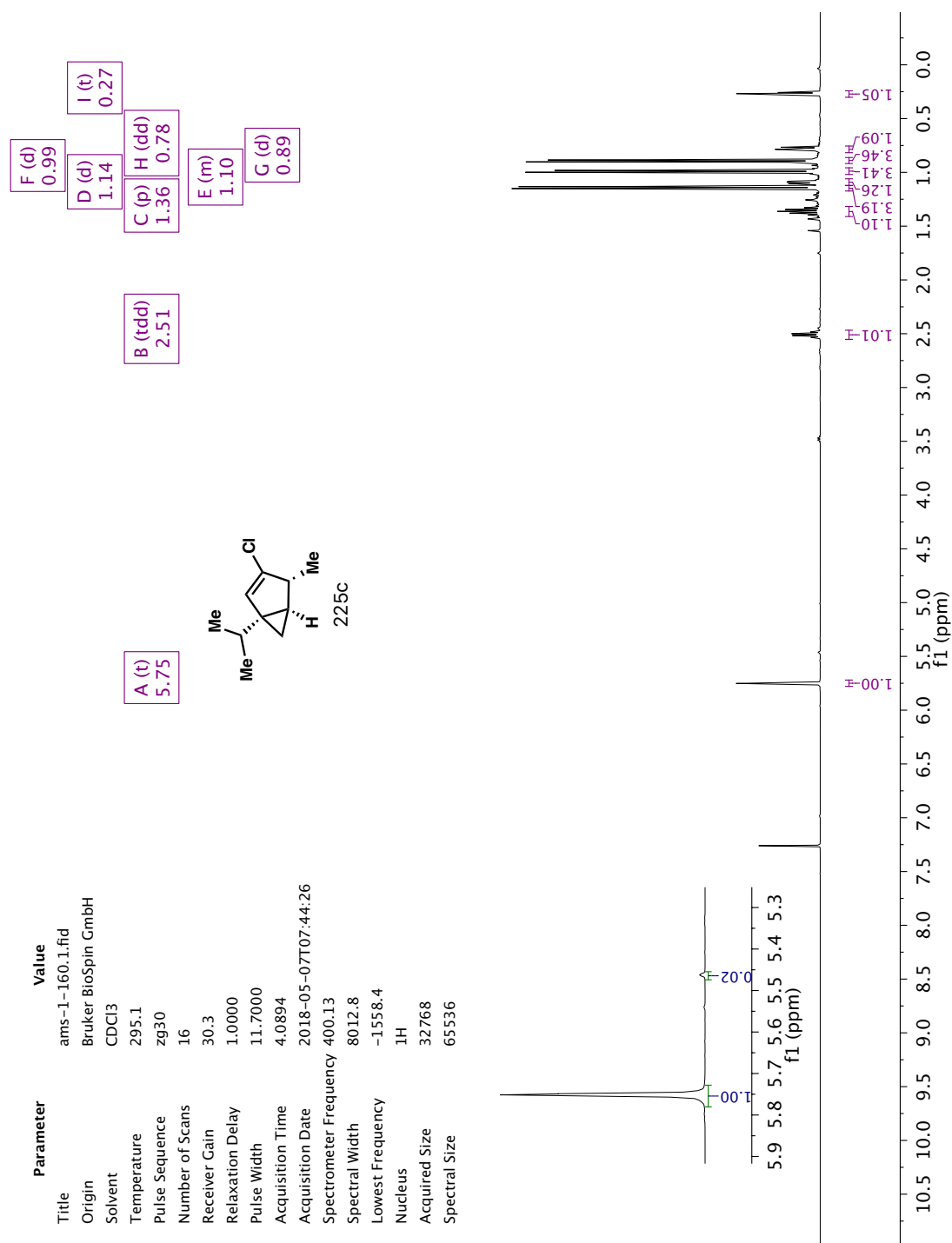


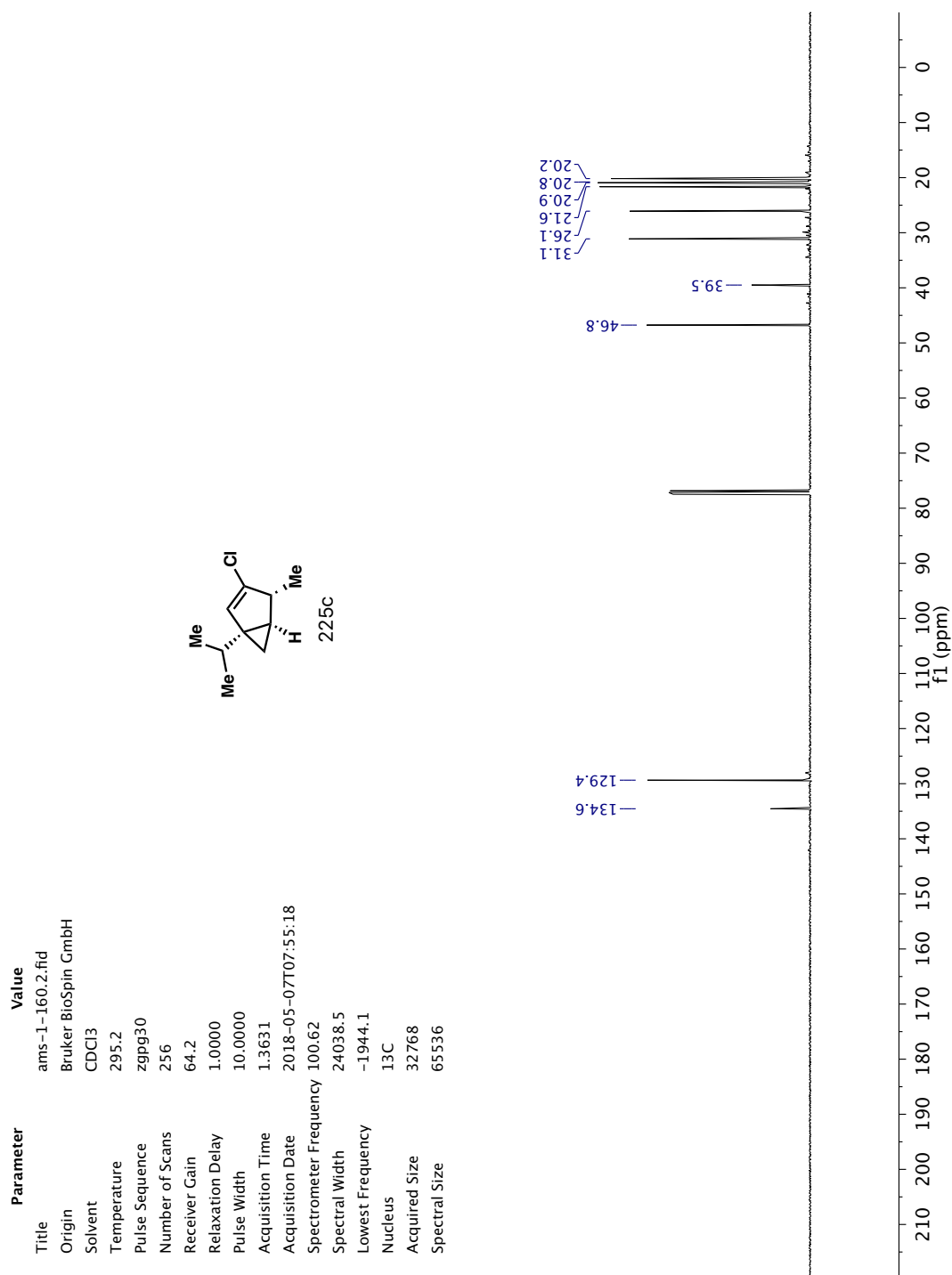


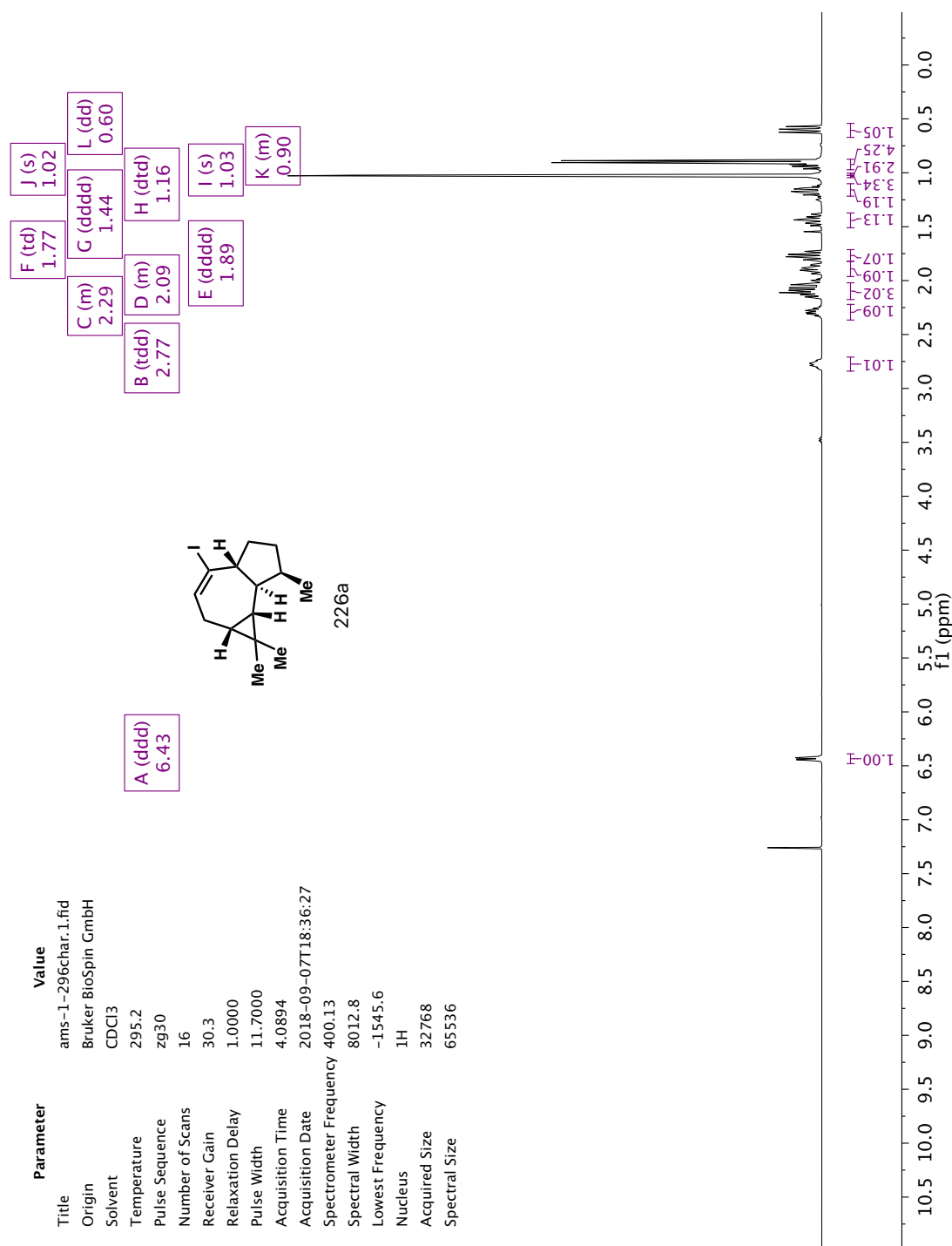


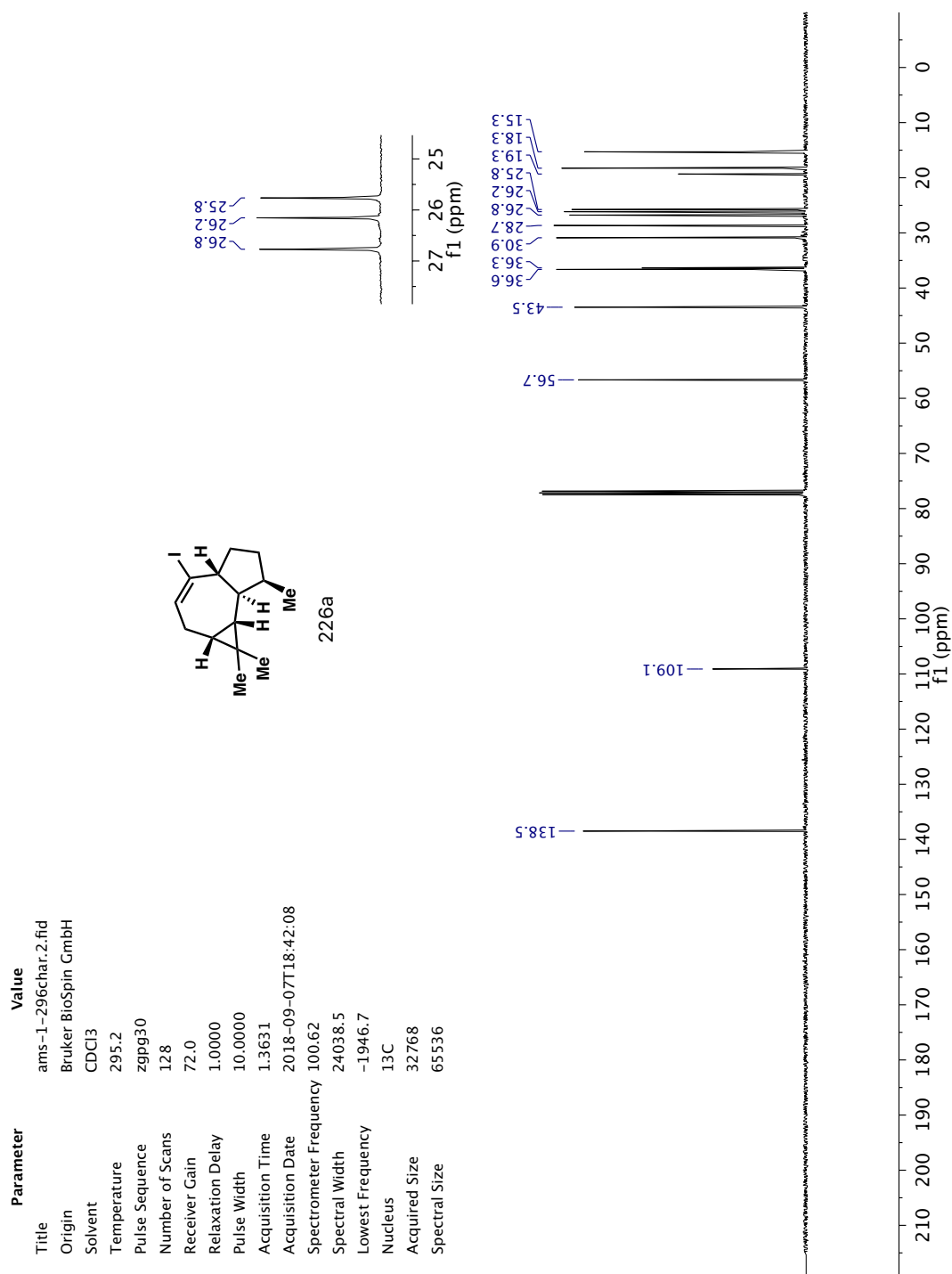
Parameter	Value
Title	AMS-1-298
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	256
Receiver Gain	30
Relaxation Delay	1.0000
Pulse Width	4.6125
Acquisition Time	1.0420
Acquisition Date	2018-09-10T20:51:45
Spectrometer Frequency	125.64
Spectral Width	31446.5
Lowest Frequency	-1887.3
Nucleus	¹³ C
Acquired Size	32768
Spectral Size	65536

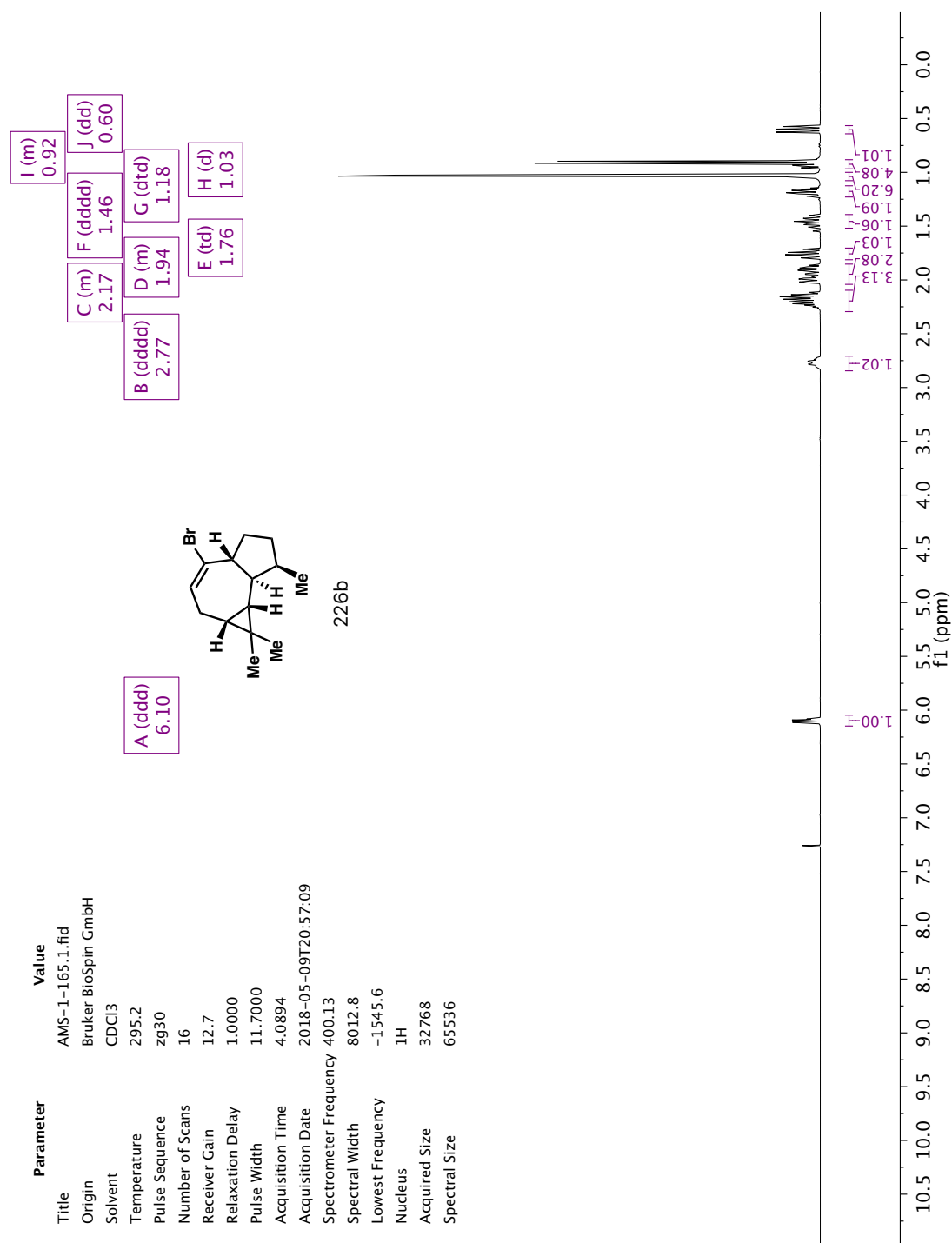


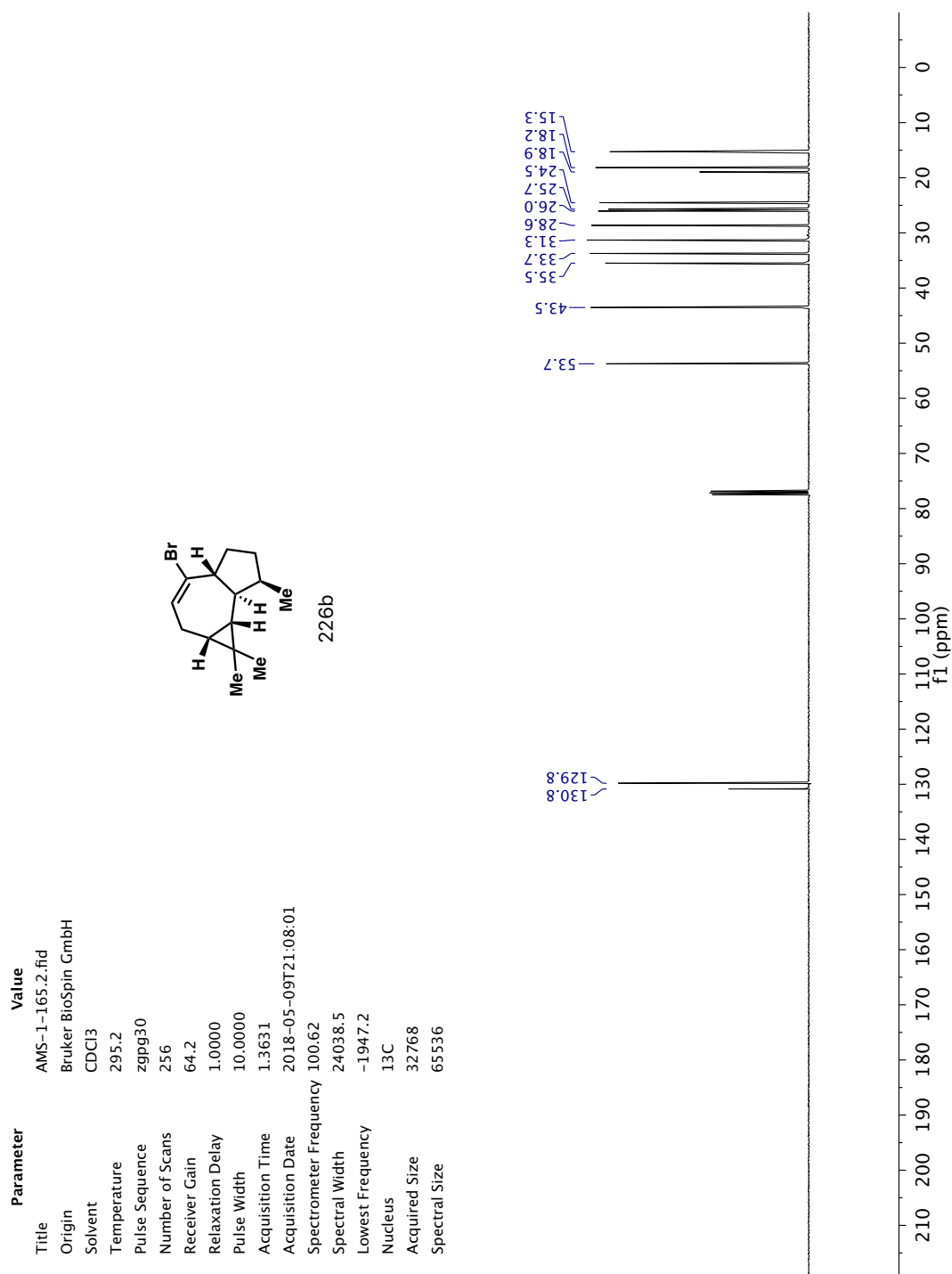


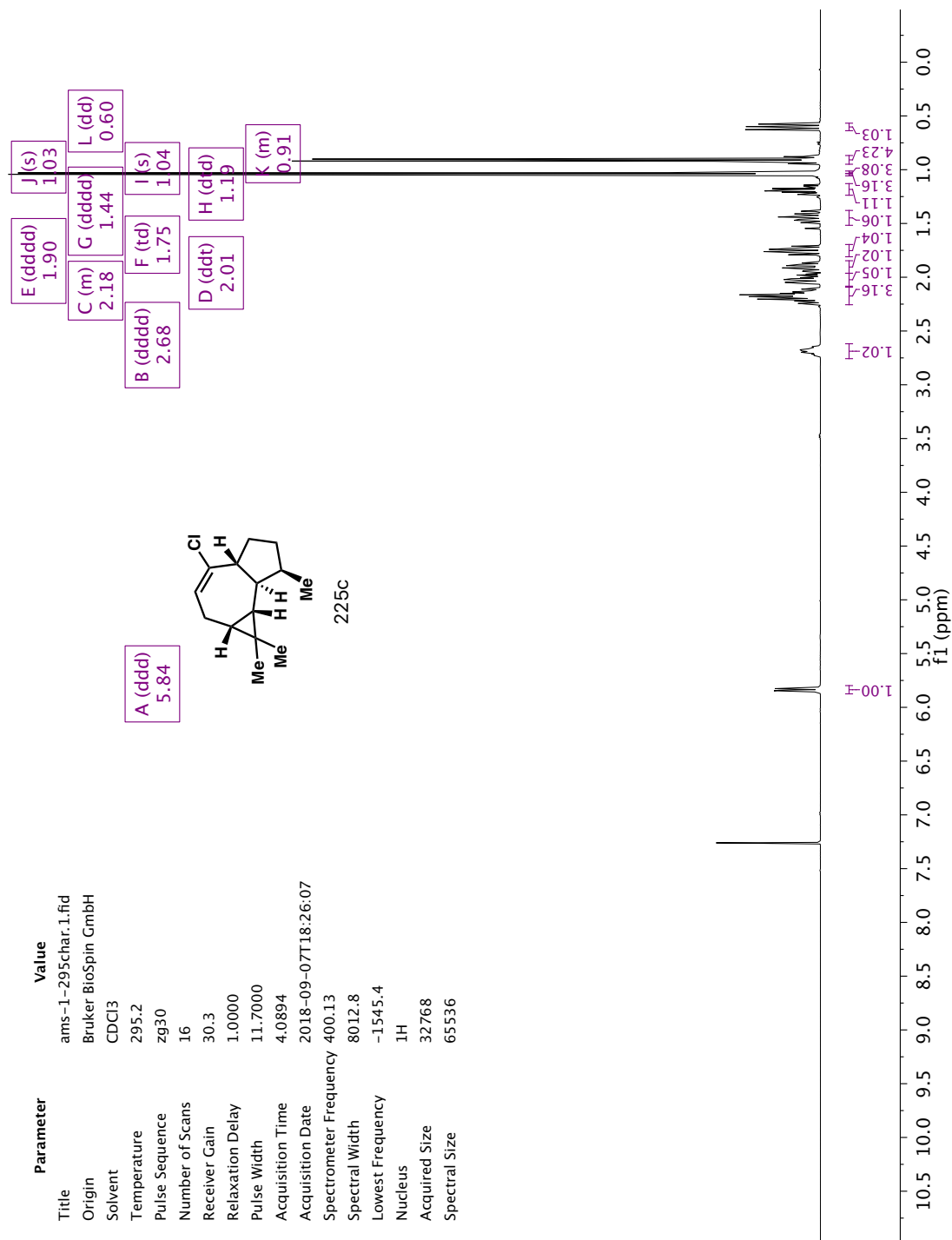




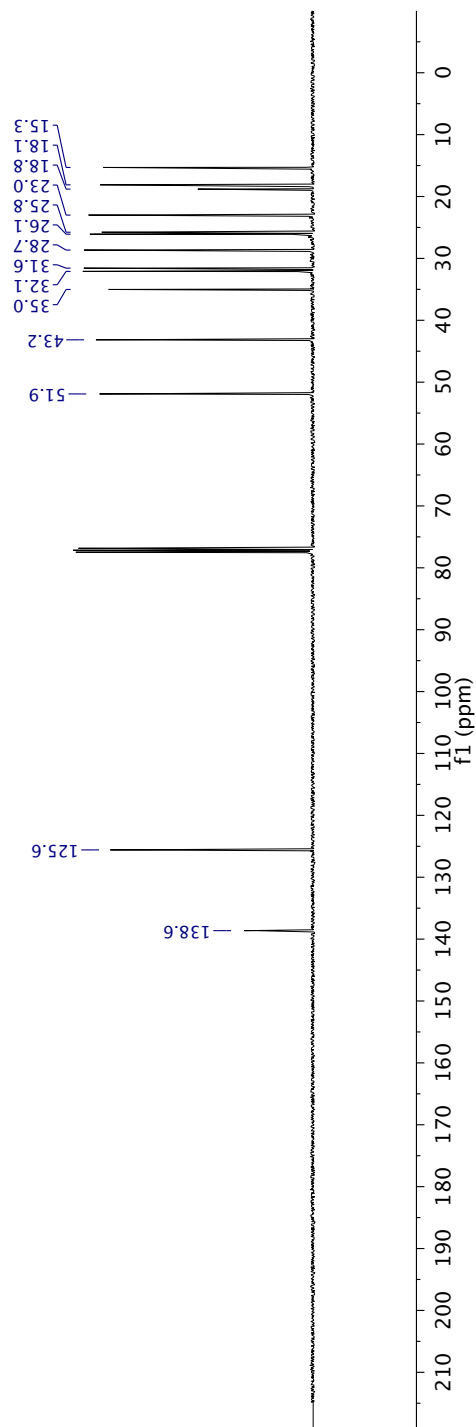
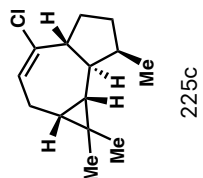


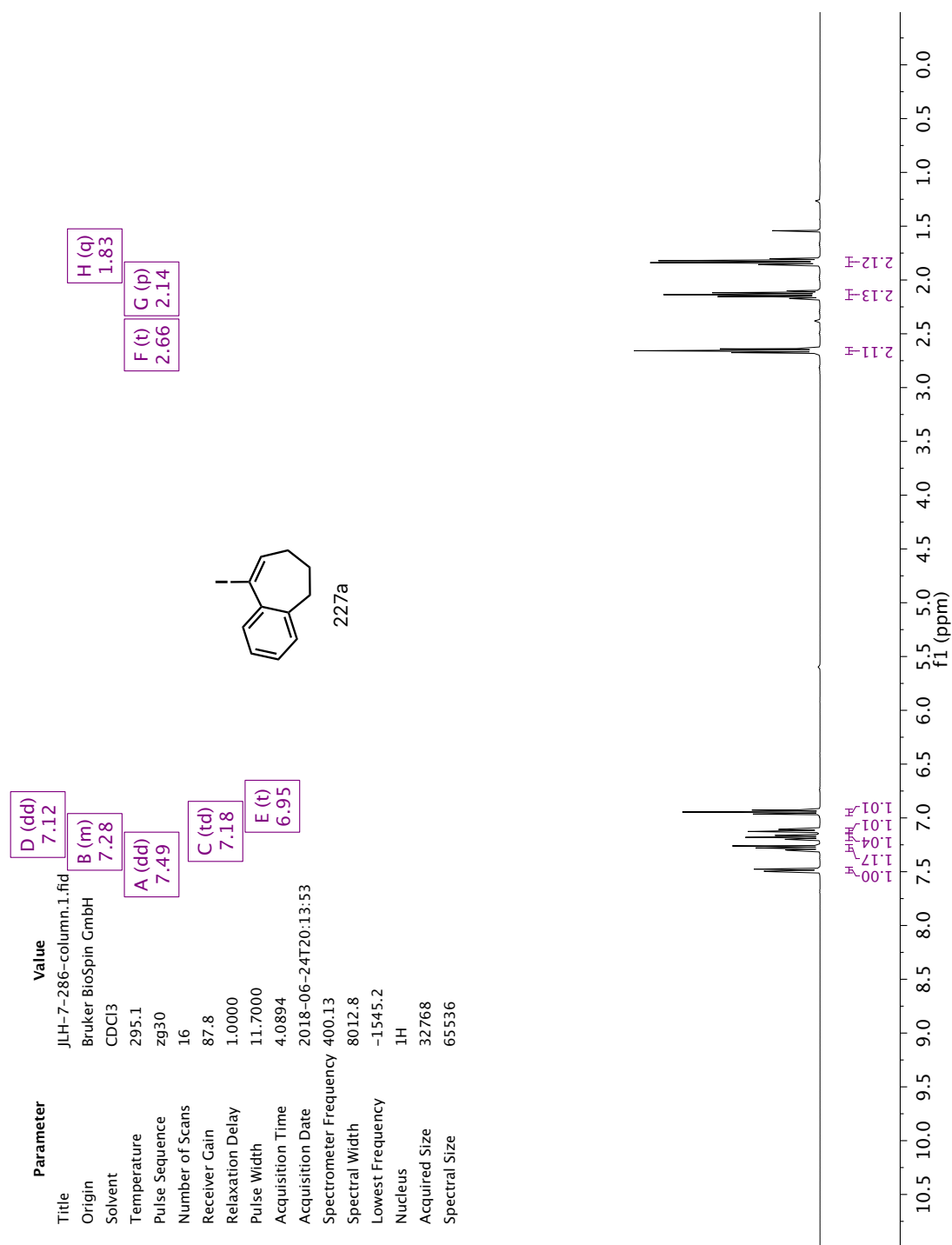




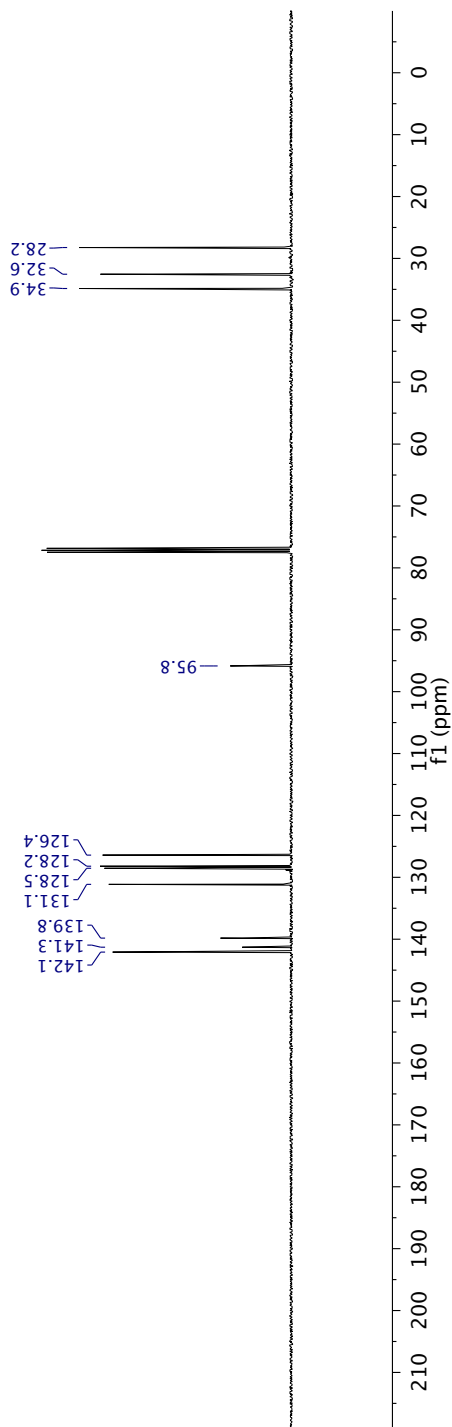
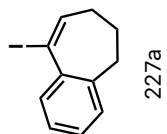


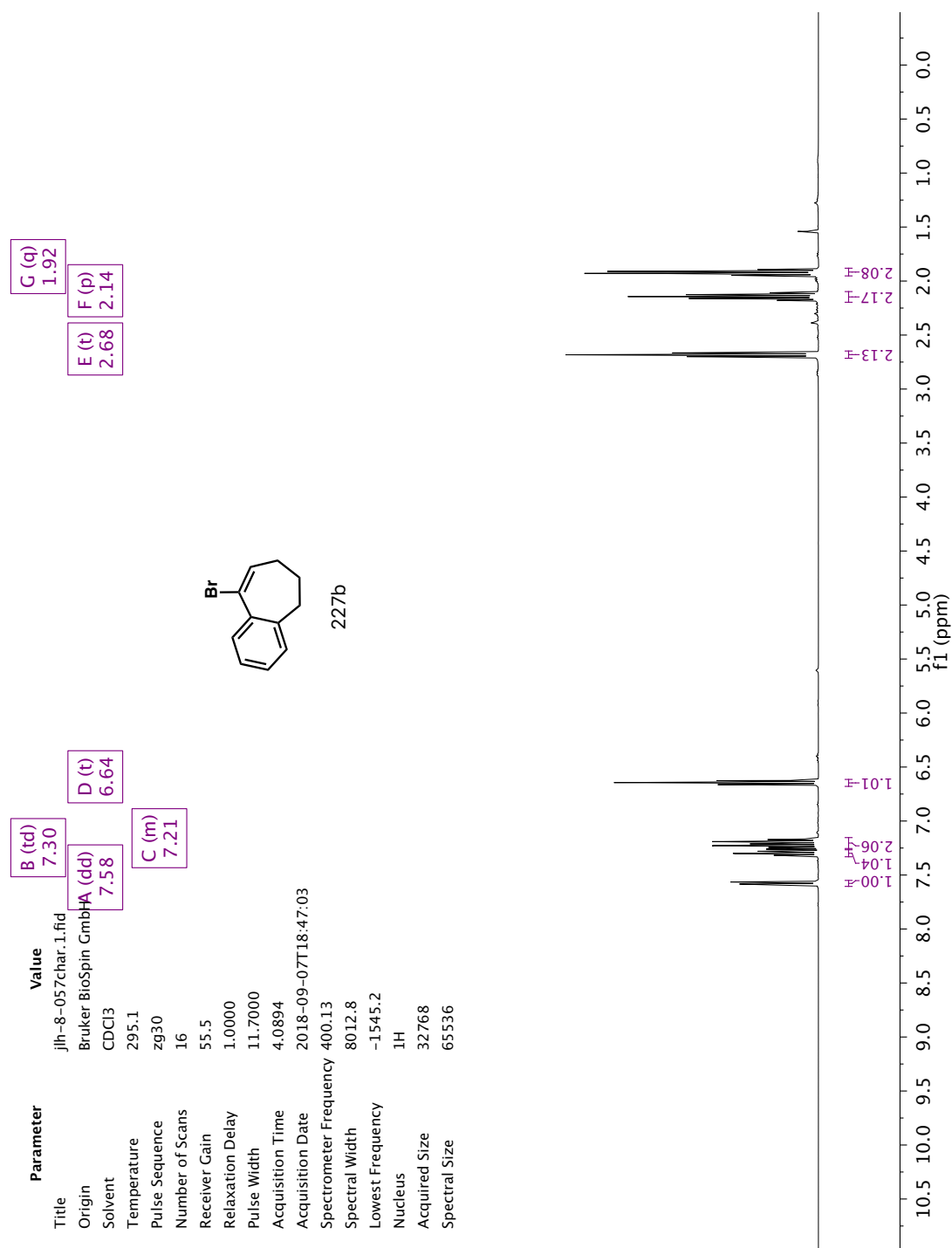
Parameter	Value
Title	ams-1-295char.2.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl ₃
Temperature	295.2
Pulse Sequence	zgpg30
Number of Scans	128
Receiver Gain	78.7
Relaxation Delay	1.0000
Pulse Width	10.0000
Acquisition Time	1.3631
Acquisition Date	2018-09-07T18:31:49
Spectrometer Frequency	100.62
Spectral Width	24038.5
Lowest Frequency	-1945.3
Nucleus	¹³ C
Acquired Size	32768
Spectral Size	65536

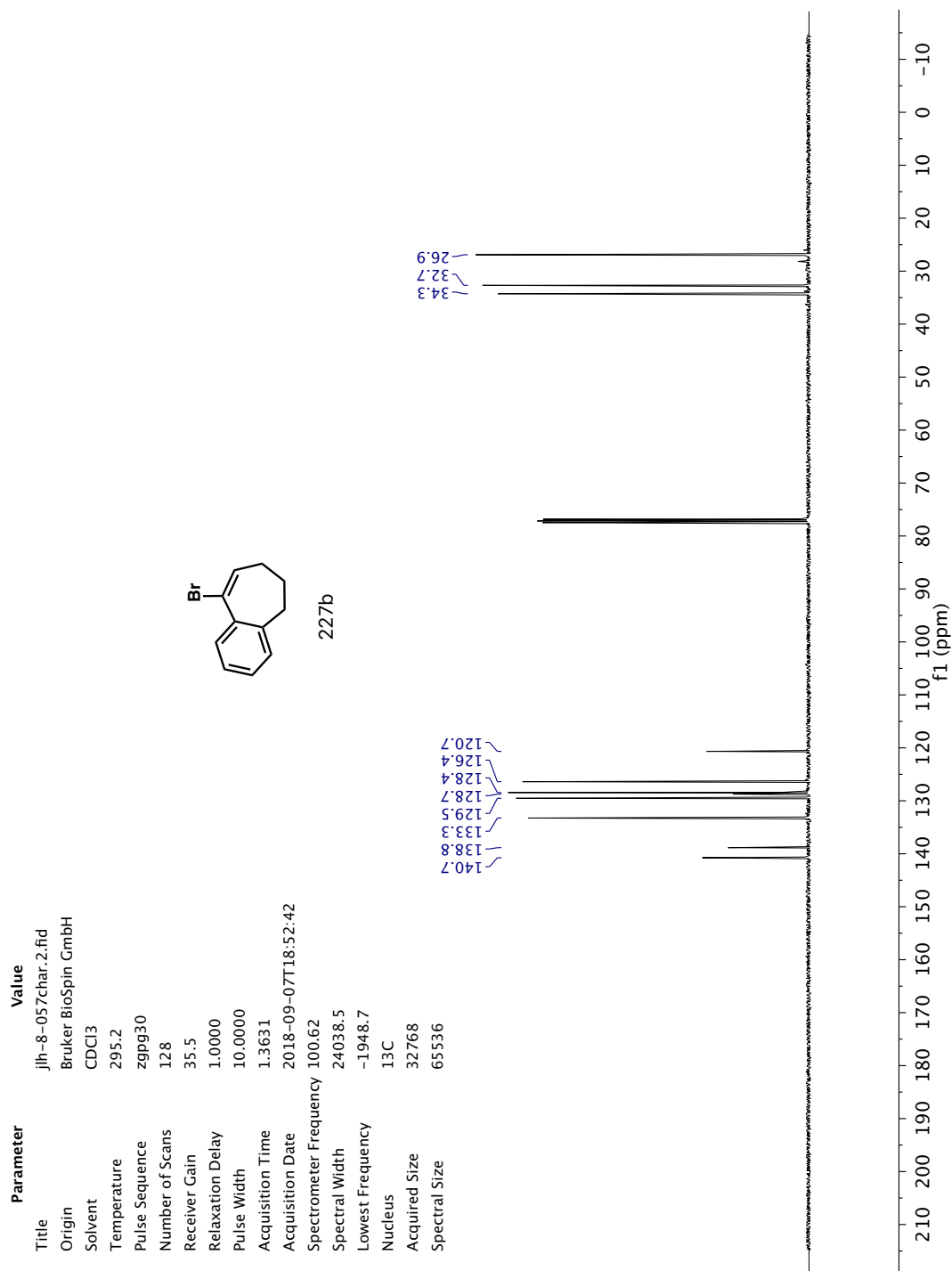


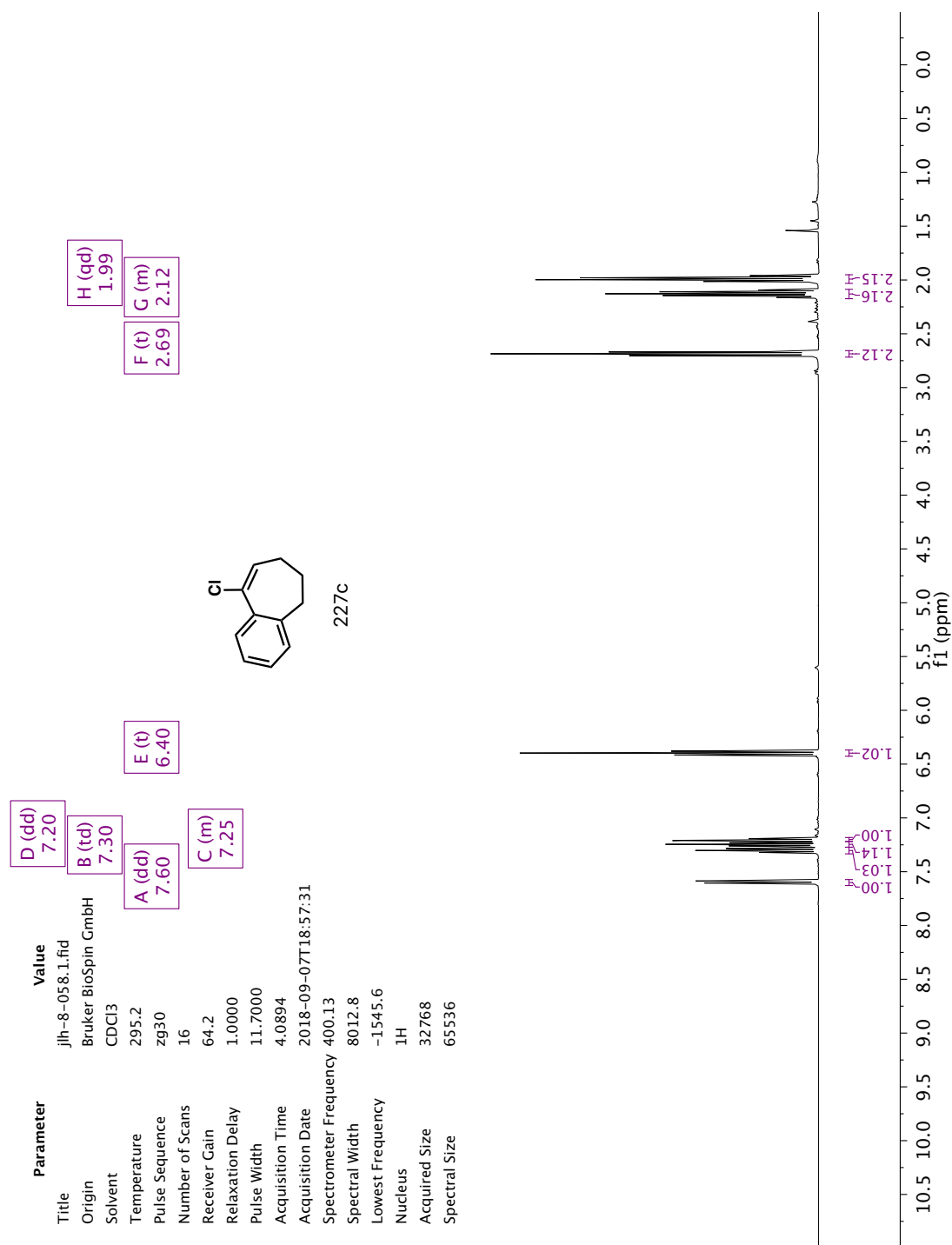


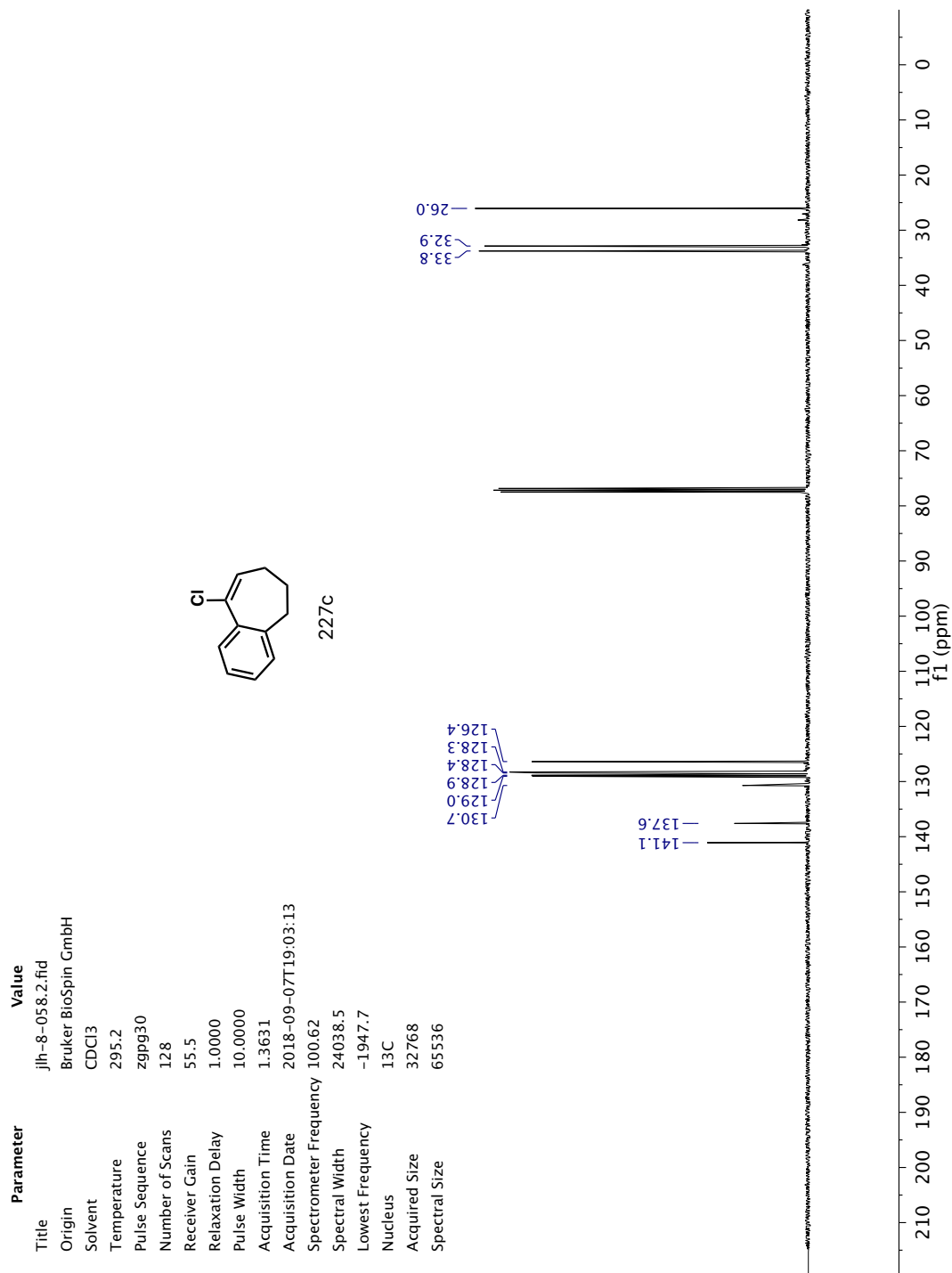
Parameter	Value
Title	JLH-7-286-column.2.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl ₃
Temperature	295.2
Pulse Sequence	zgpg30
Number of Scans	256
Receiver Gain	72.0
Relaxation Delay	1.0000
Pulse Width	10.0000
Acquisition Time	1.3631
Acquisition Date	2018-06-24T20:24:45
Spectrometer Frequency	100.62
Spectral Width	24038.5
Lowest Frequency	-1947.6
Nucleus	¹³ C
Acquired Size	32768
Spectral Size	65536

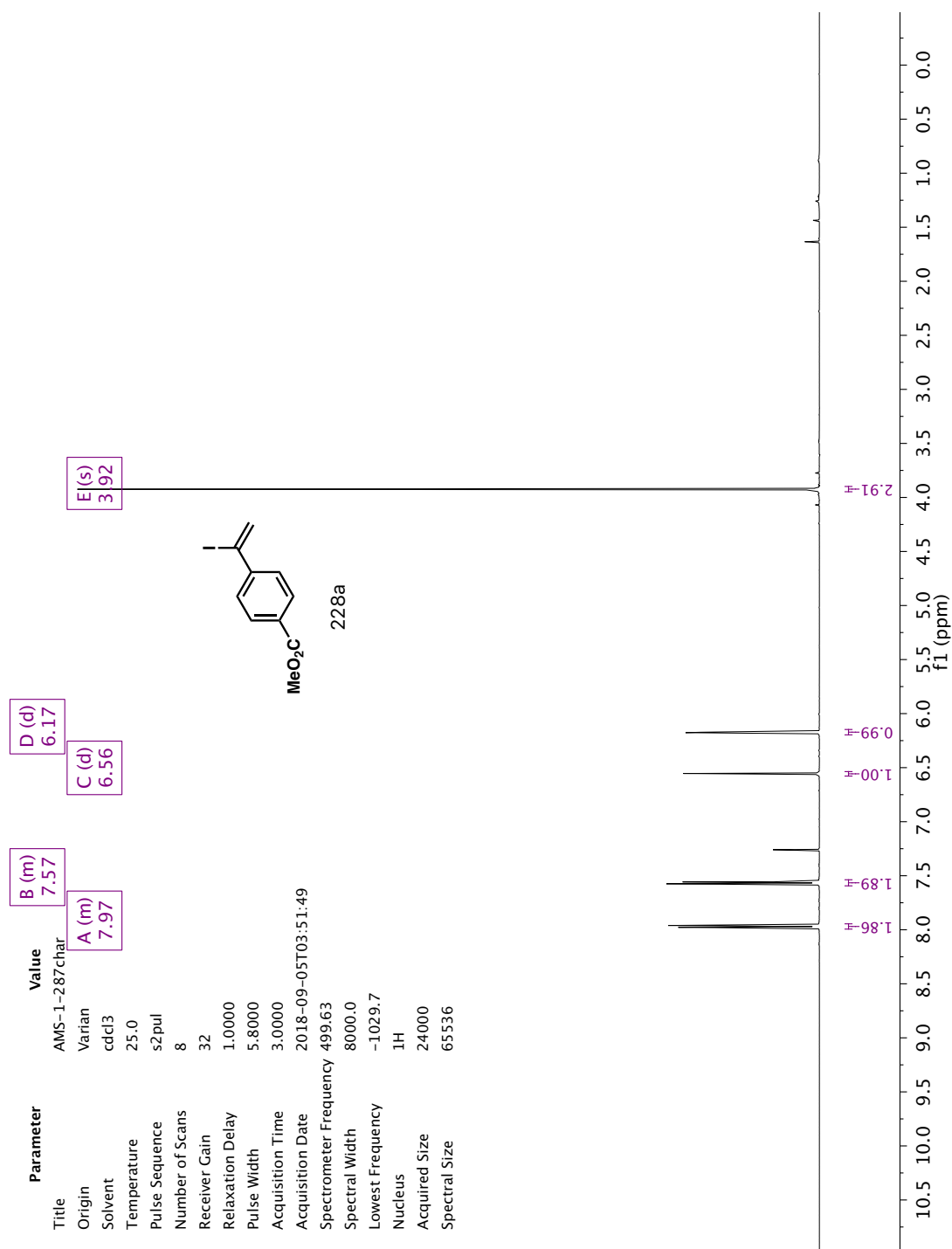


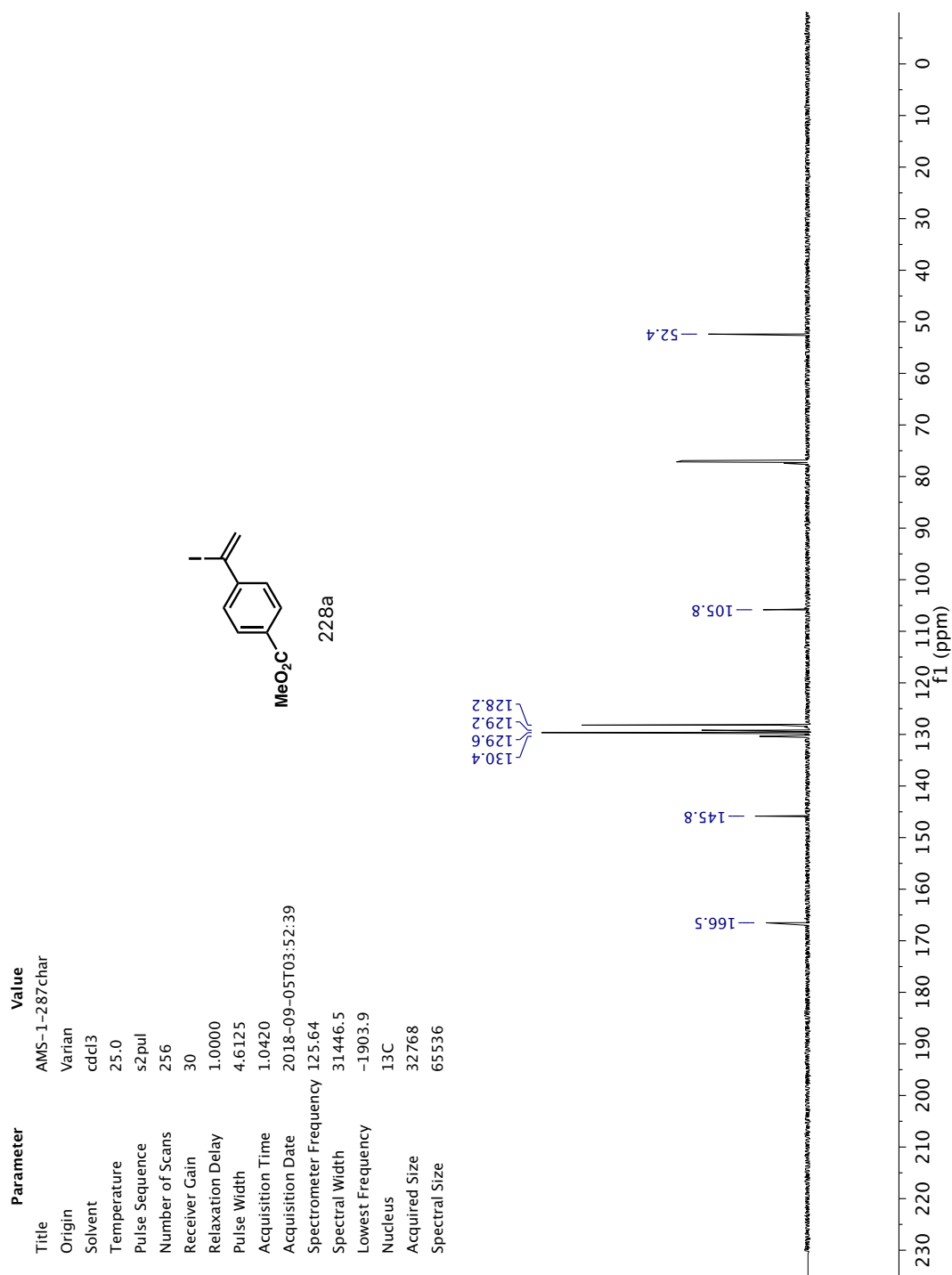


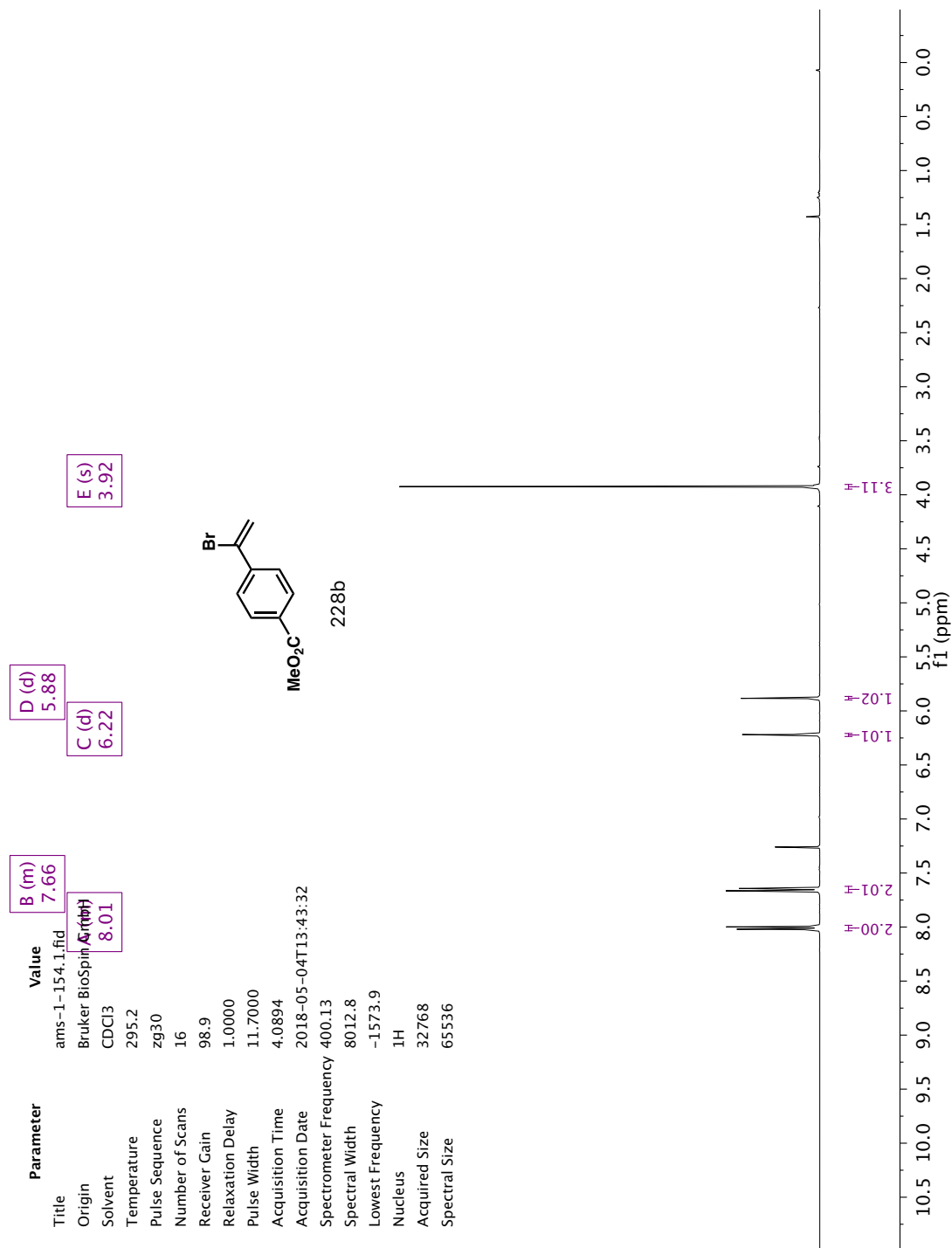


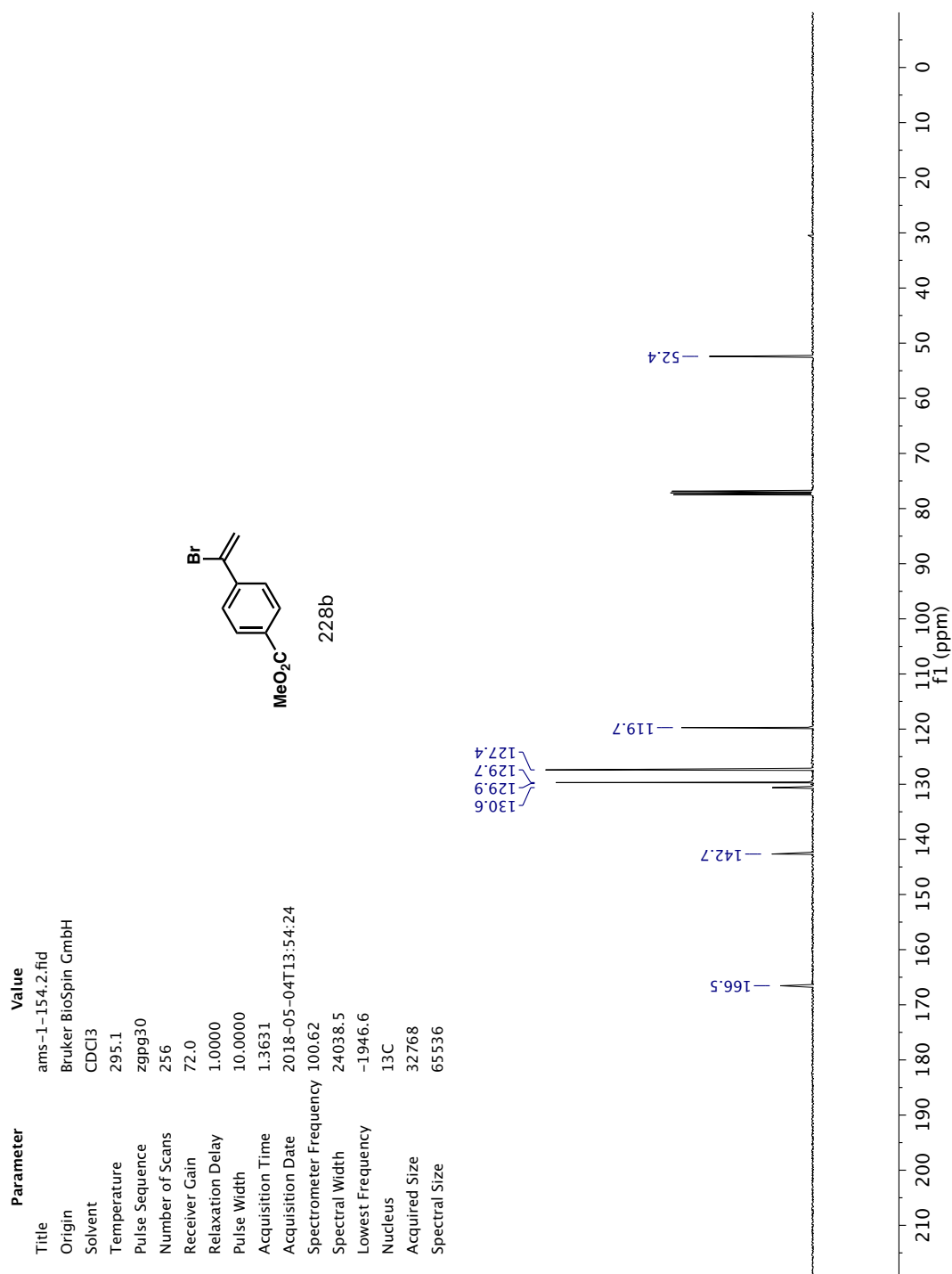


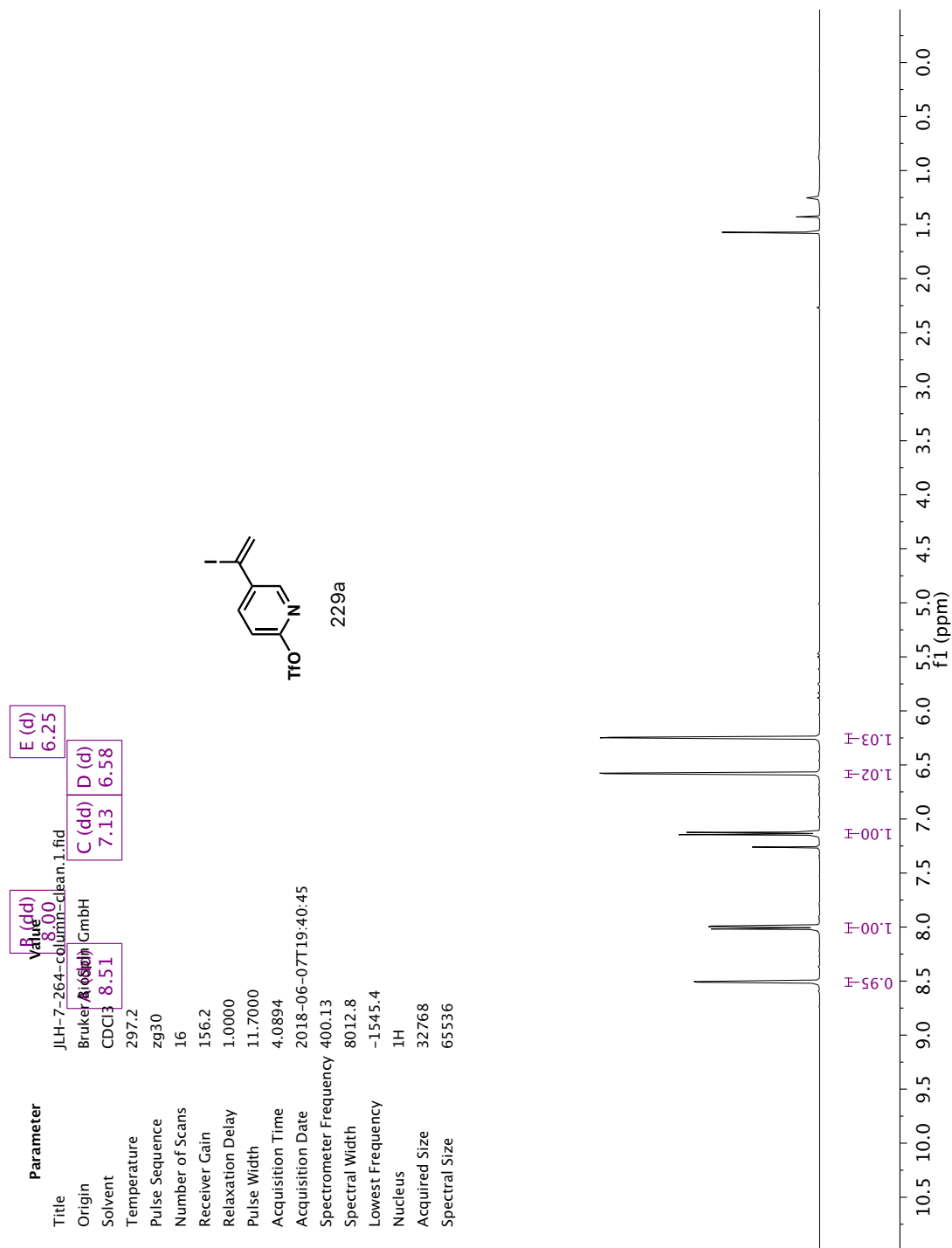




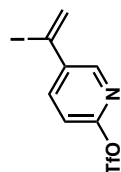




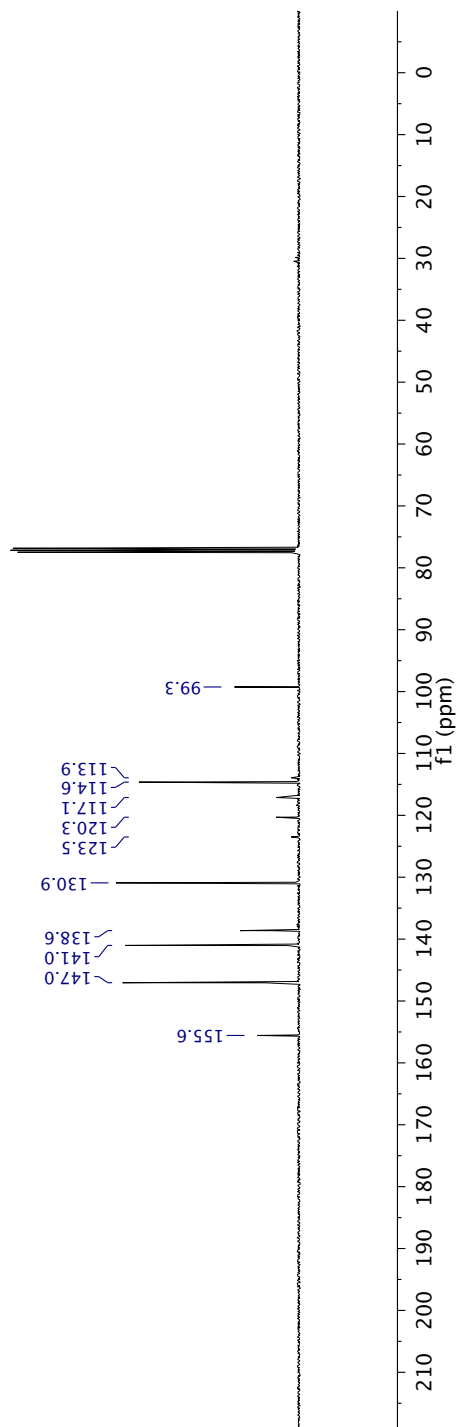




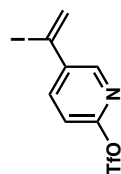
Parameter	Value
Title	JLH-7-264-column-clean.2.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl ₃
Temperature	297.2
Pulse Sequence	zgpg30
Number of Scans	512
Receiver Gain	72.0
Relaxation Delay	1.0000
Pulse Width	10.0000
Acquisition Time	1.3631
Acquisition Date	2018-06-07T20:03:25
Spectrometer Frequency	100.62
Spectral Width	24038.5
Lowest Frequency	-1945.2
Nucleus	¹³ C
Acquired Size	32768
Spectral Size	65536



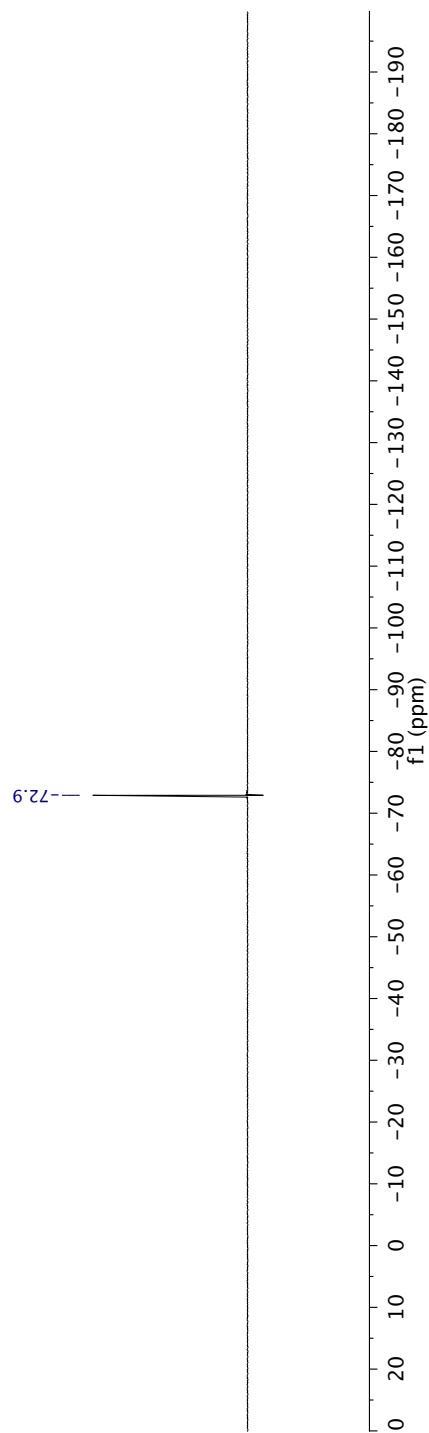
229a



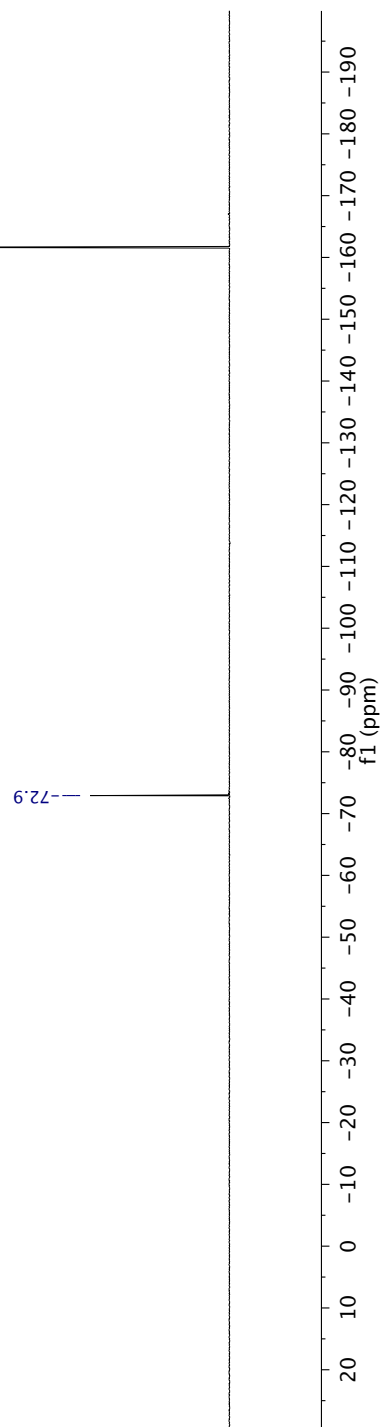
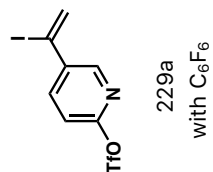
Parameter	Value
Title	JLH-7-264-F
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	16
Receiver Gain	30
Relaxation Delay	1.0000
Pulse Width	6.3333
Acquisition Time	0.9856
Acquisition Date	2018-06-14T01:09:09
Spectrometer Frequency	282.34
Spectral Width	64935.1
Lowest Frequency	-56468.7
Nucleus	19F
Acquired Size	64000
Spectral Size	131072

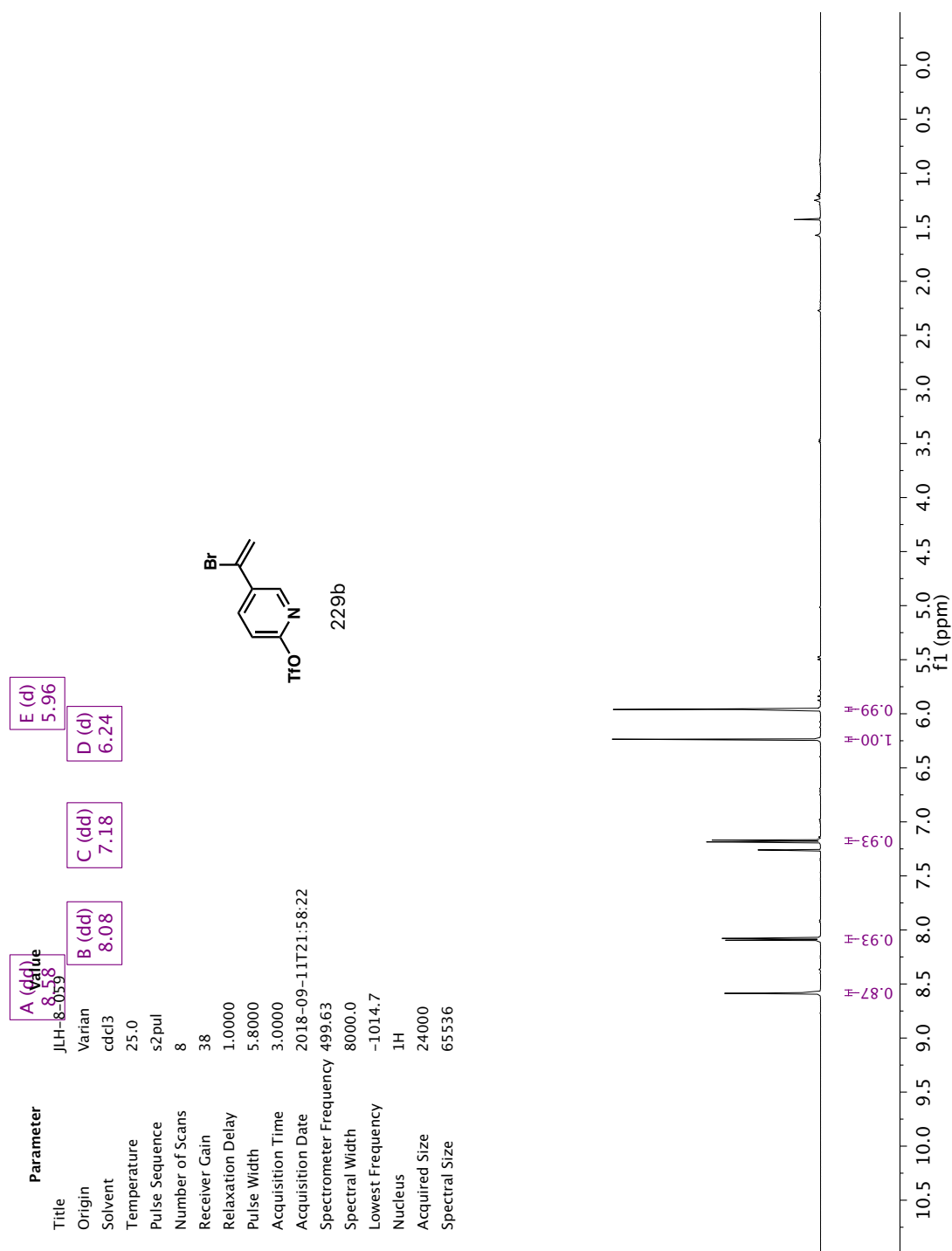


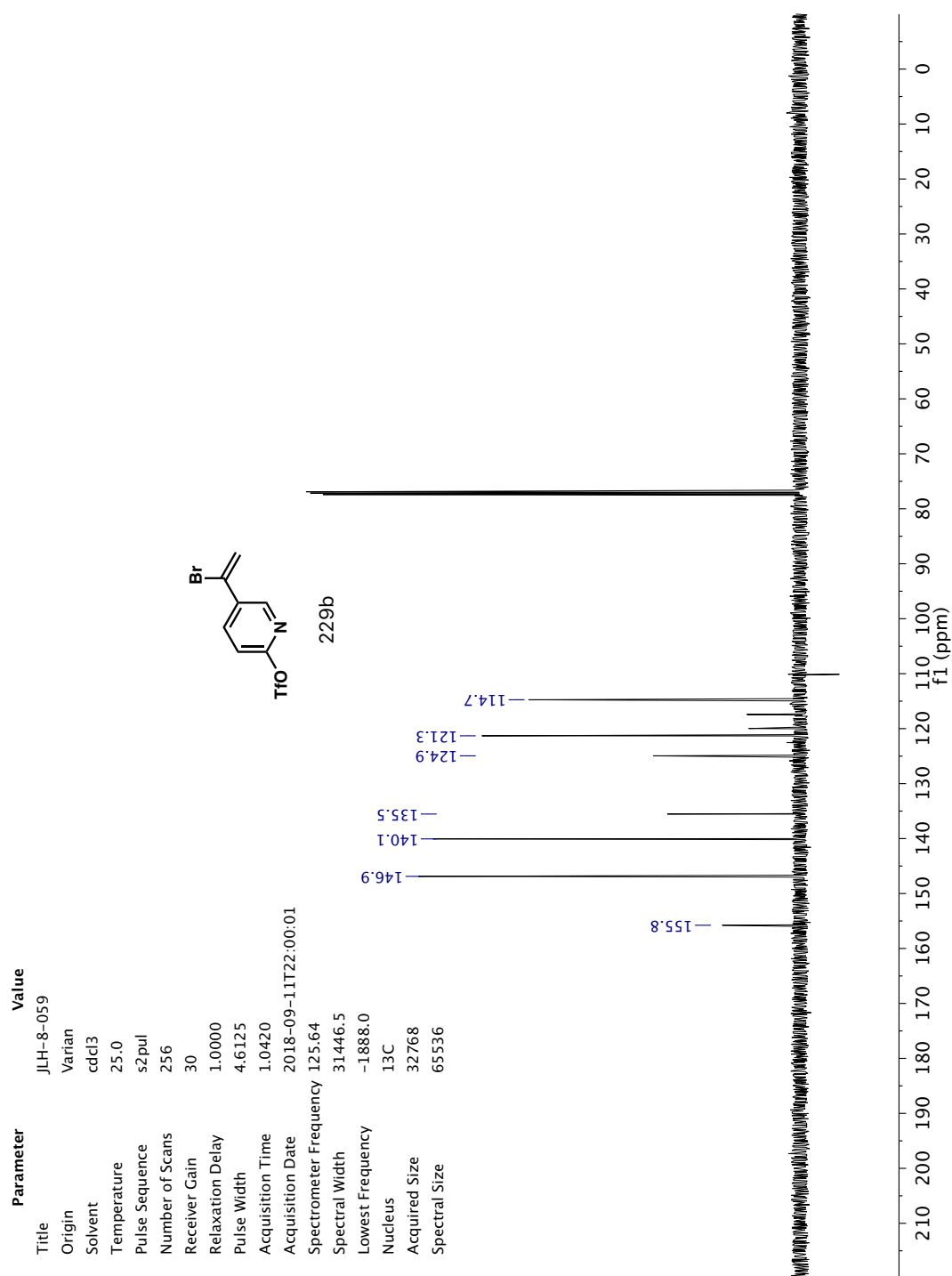
229a

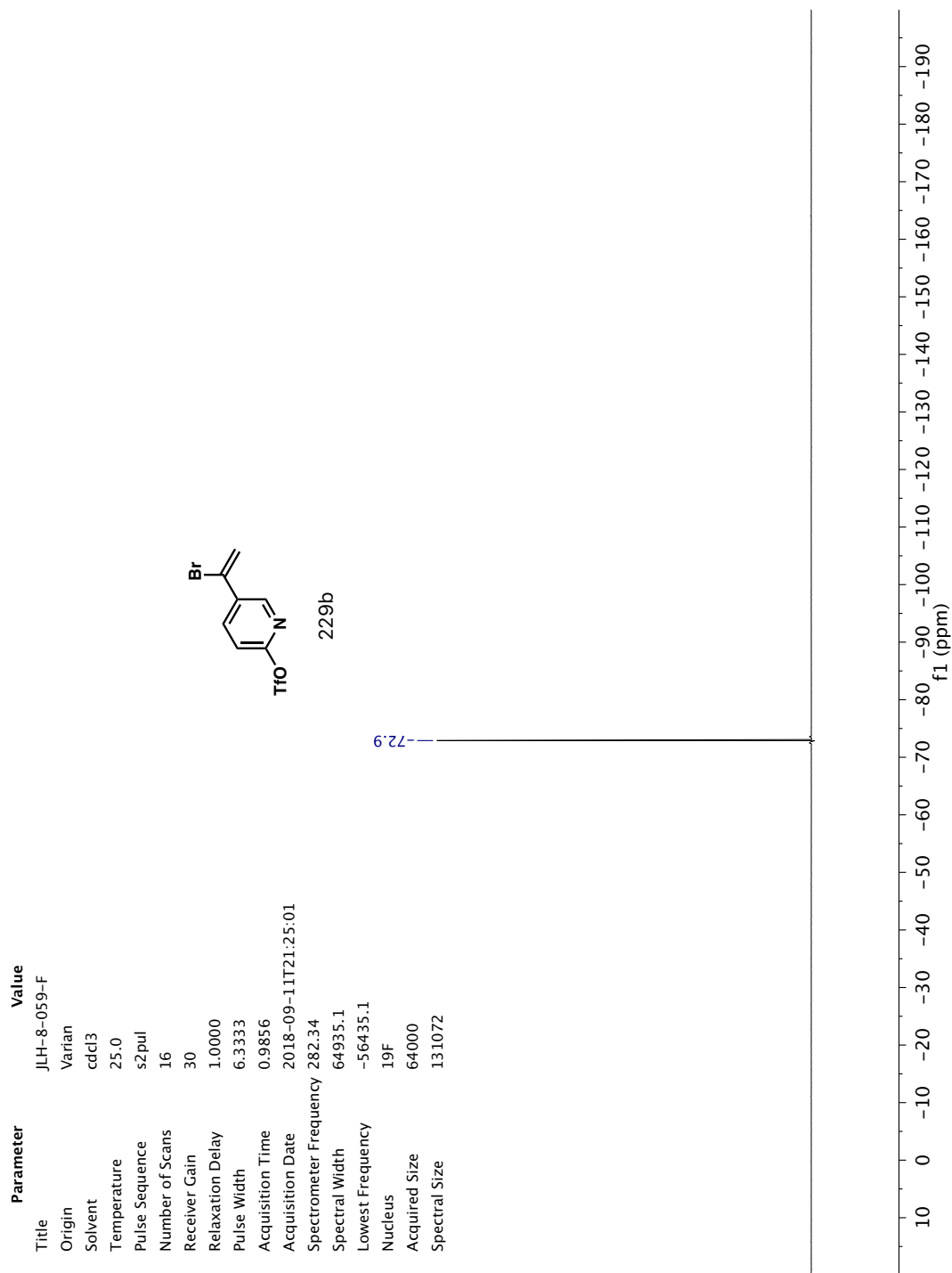


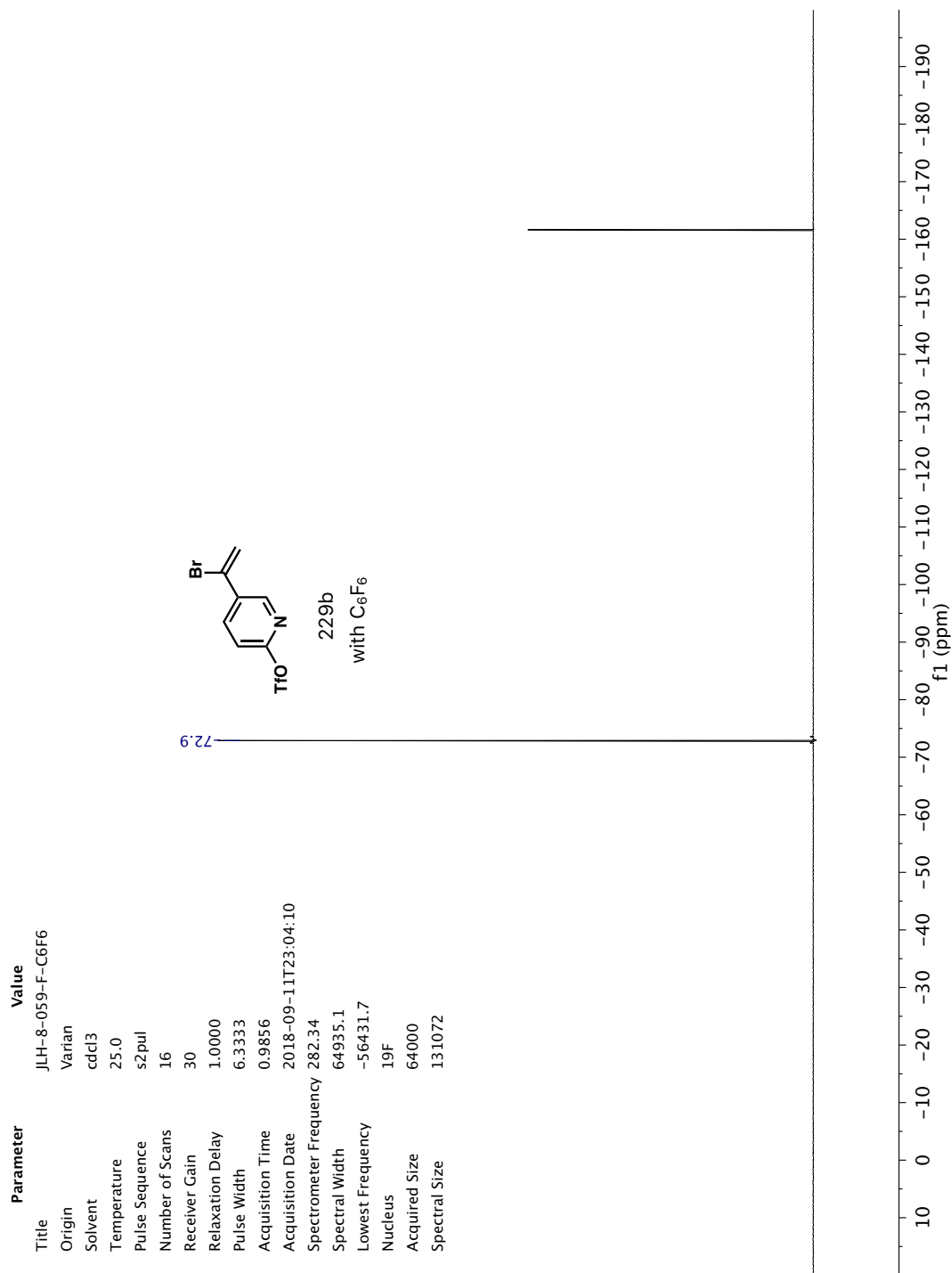
Parameter	Value
Title	JLH-7-264-F-C6F6
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	16
Receiver Gain	30
Relaxation Delay	1.0000
Pulse Width	6.3333
Acquisition Time	0.9856
Acquisition Date	2018-06-14T01:14:32
Spectrometer Frequency	282.34
Spectral Width	64935.1
Lowest Frequency	-56468.7
Nucleus	¹⁹ F
Acquired Size	64000
Spectral Size	131072

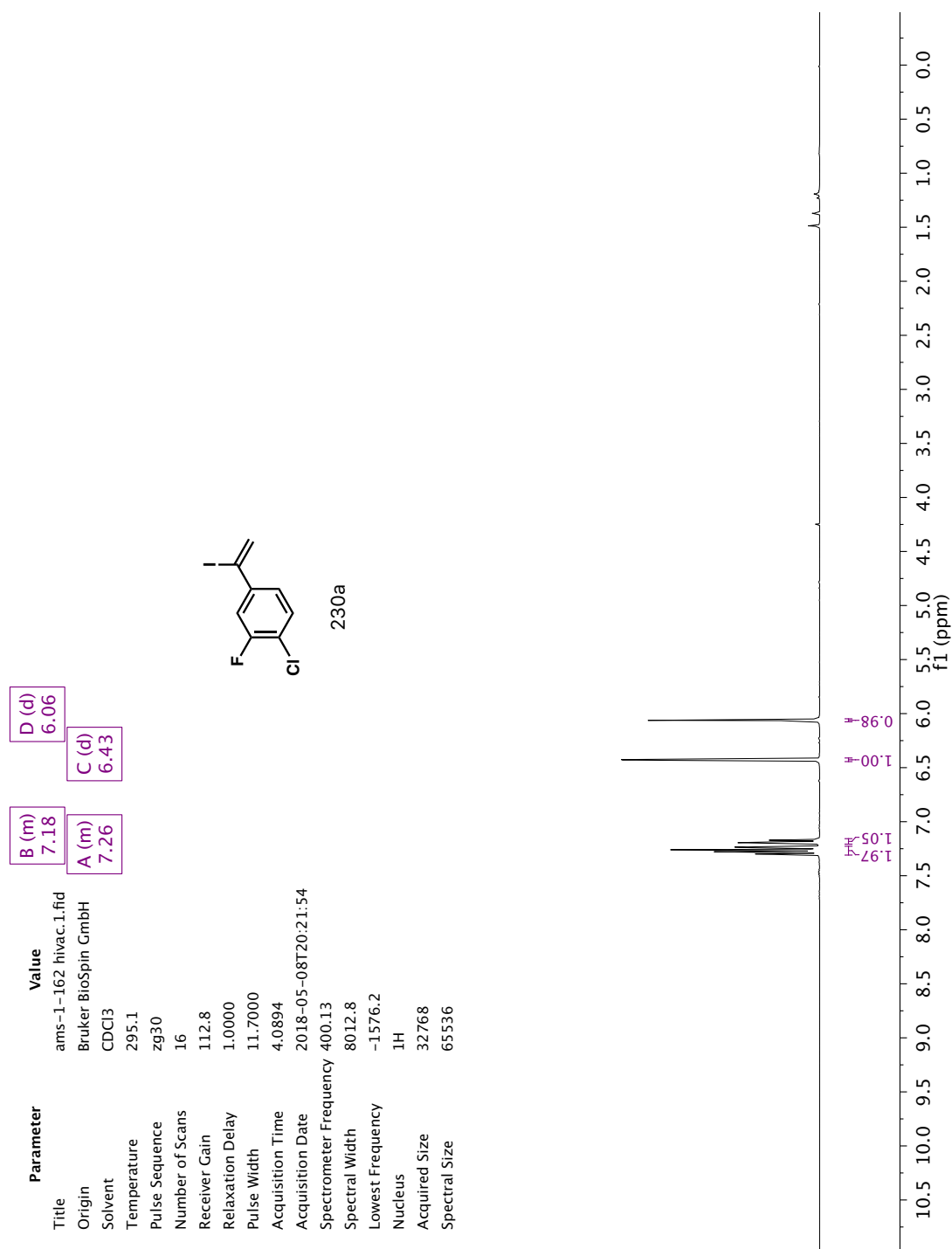




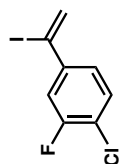




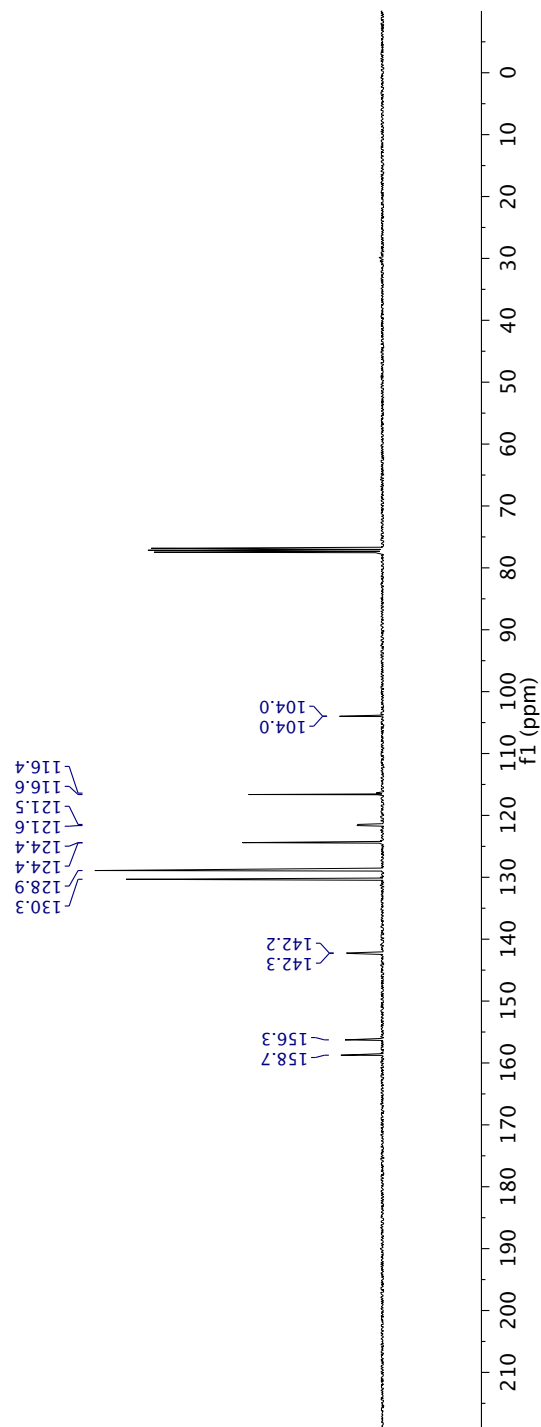




Parameter	Value
Title	ams-1-162 hivac.2.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl ₃
Temperature	295.2
Pulse Sequence	zgpg30
Number of Scans	256
Receiver Gain	64.2
Relaxation Delay	1.0000
Pulse Width	10.0000
Acquisition Time	1.3631
Acquisition Date	2018-05-08T20:32:46
Spectrometer Frequency	100.62
Spectral Width	24038.5
Lowest Frequency	-1958.4
Nucleus	¹³ C
Acquired Size	32768
Spectral Size	65536

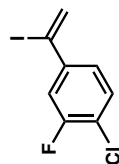


230a

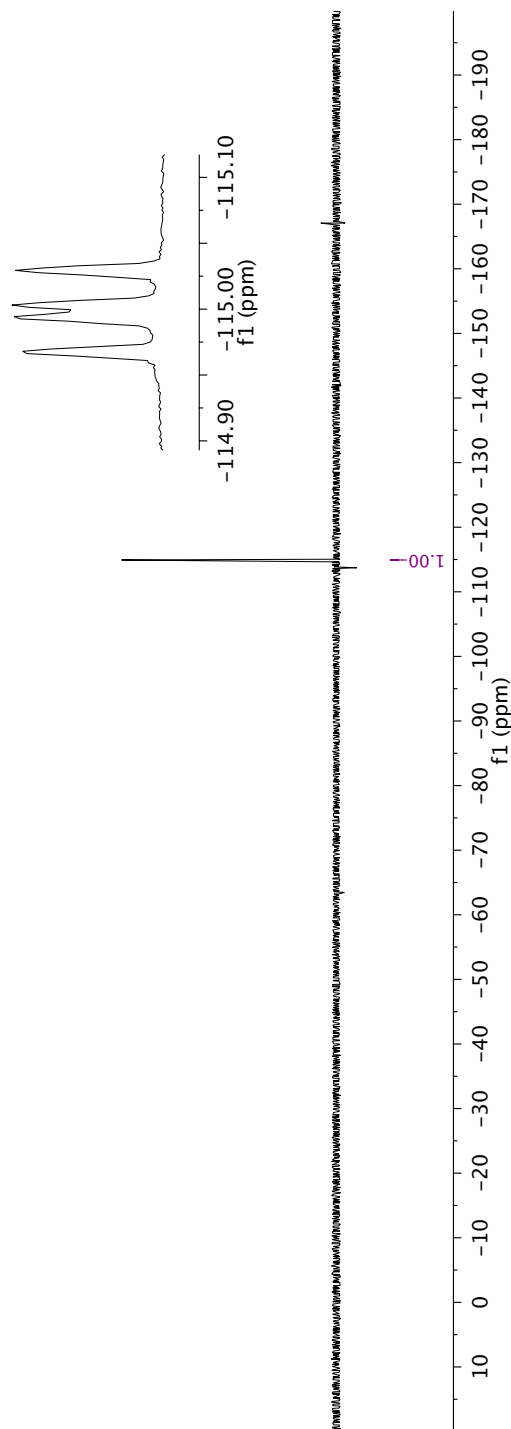


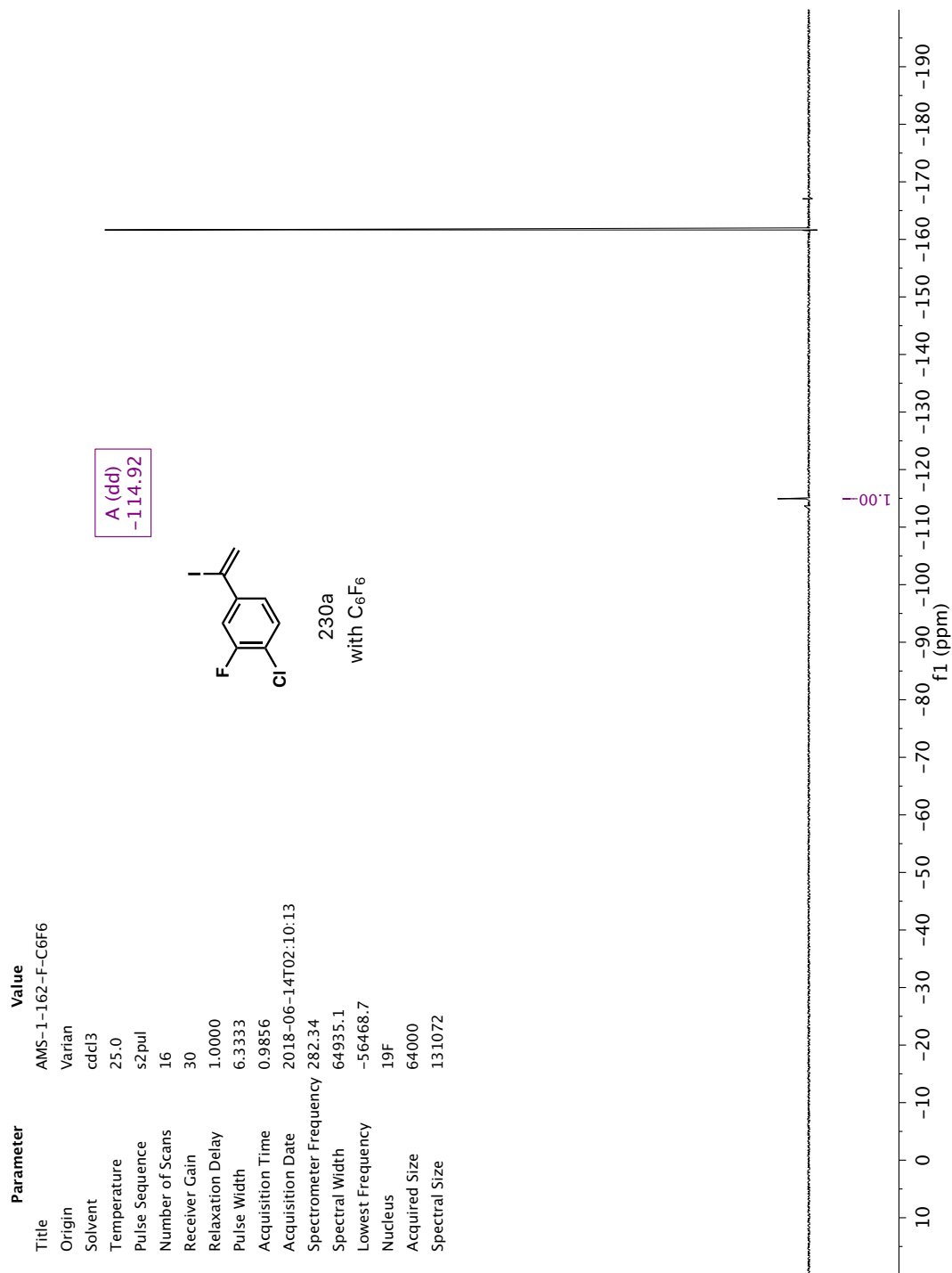
Parameter	Value
Title	AMS-1-162-F
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	16
Receiver Gain	30
Relaxation Delay	1.0000
Pulse Width	6.3333
Acquisition Time	0.9856
Acquisition Date	2018-06-14T02:05:22
Spectrometer Frequency	282.34
Spectral Width	64935.1
Lowest Frequency	-56468.7
Nucleus	19F
Acquired Size	64000
Spectral Size	131072

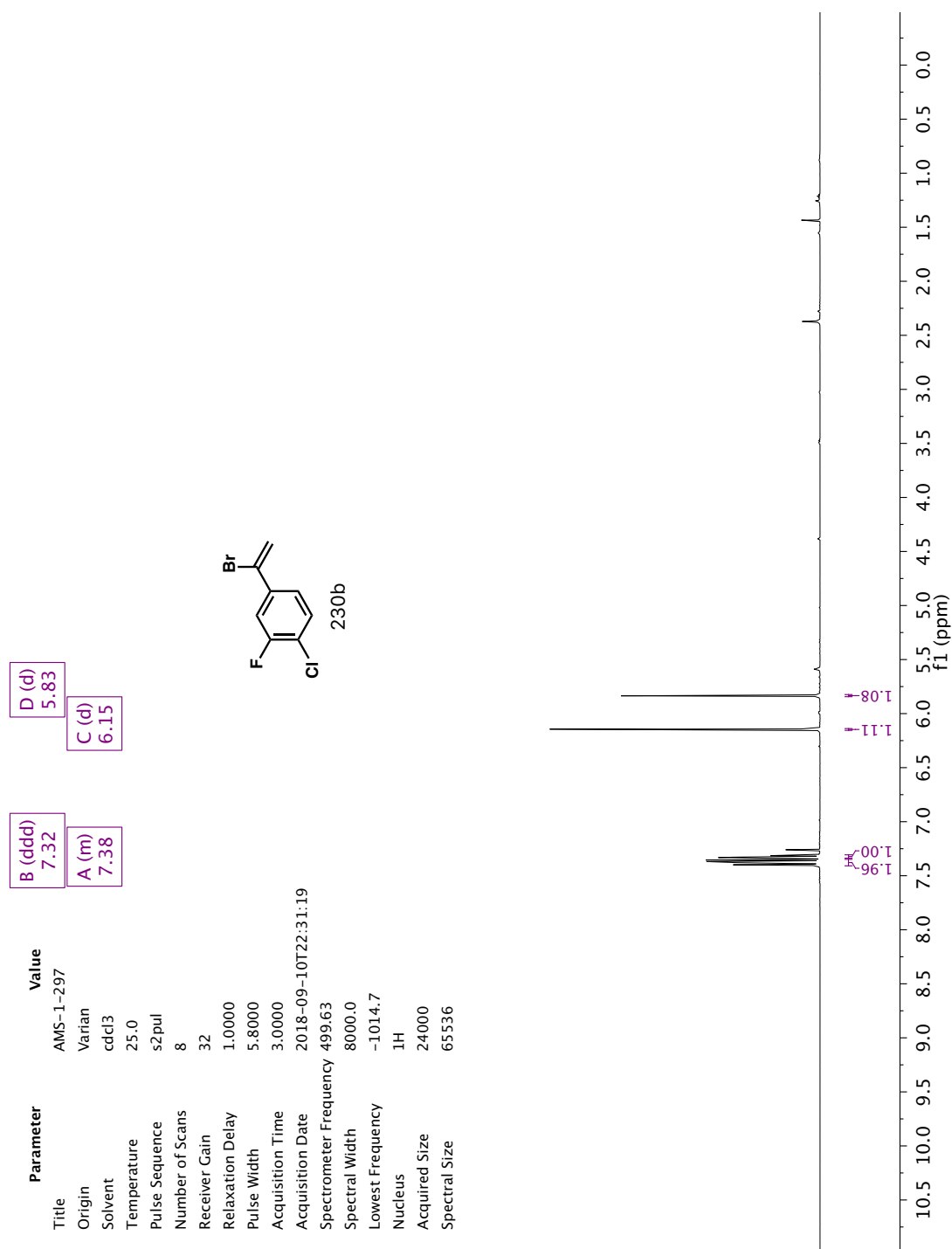
A (dd)
-114.92

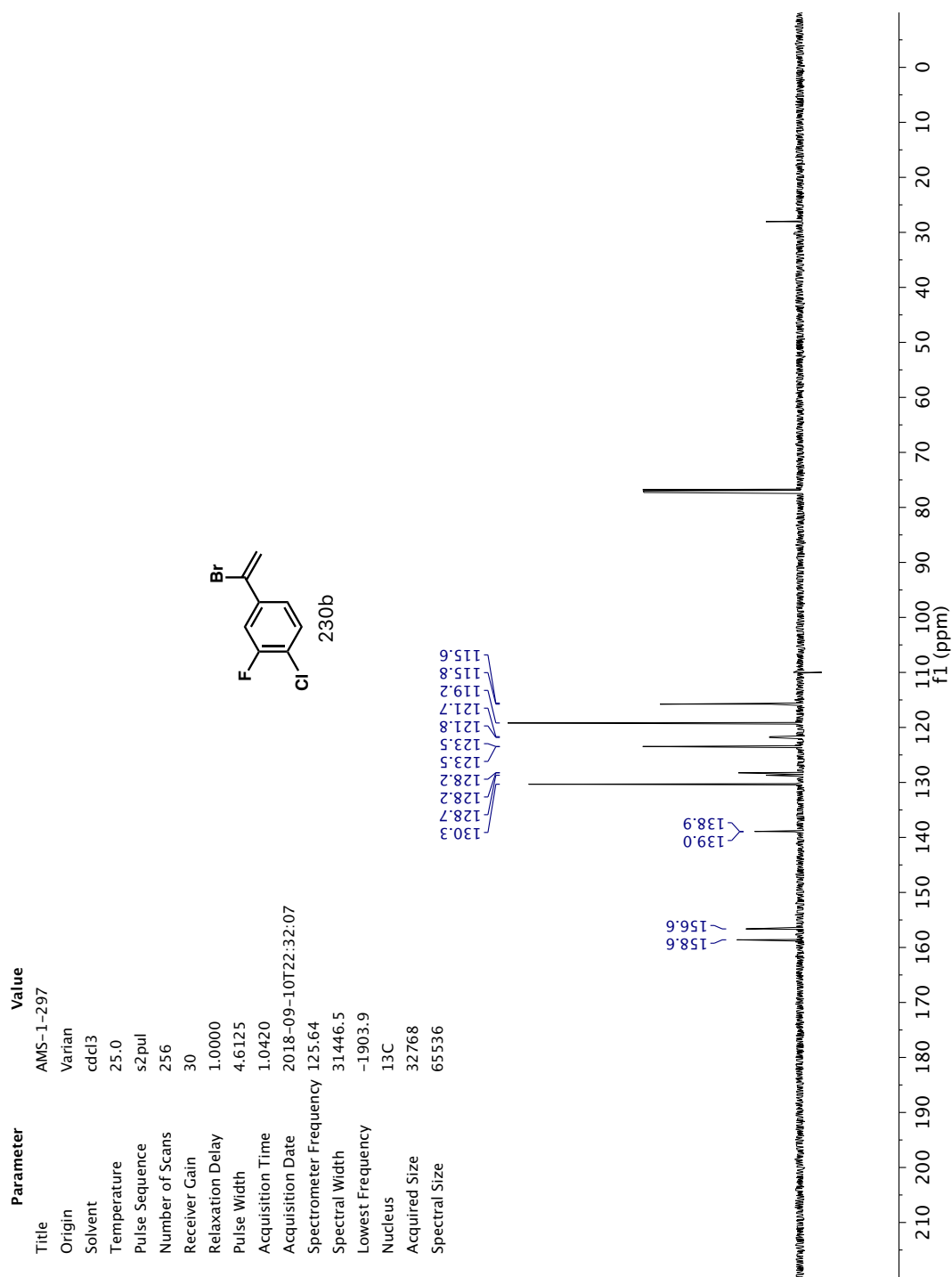


230a



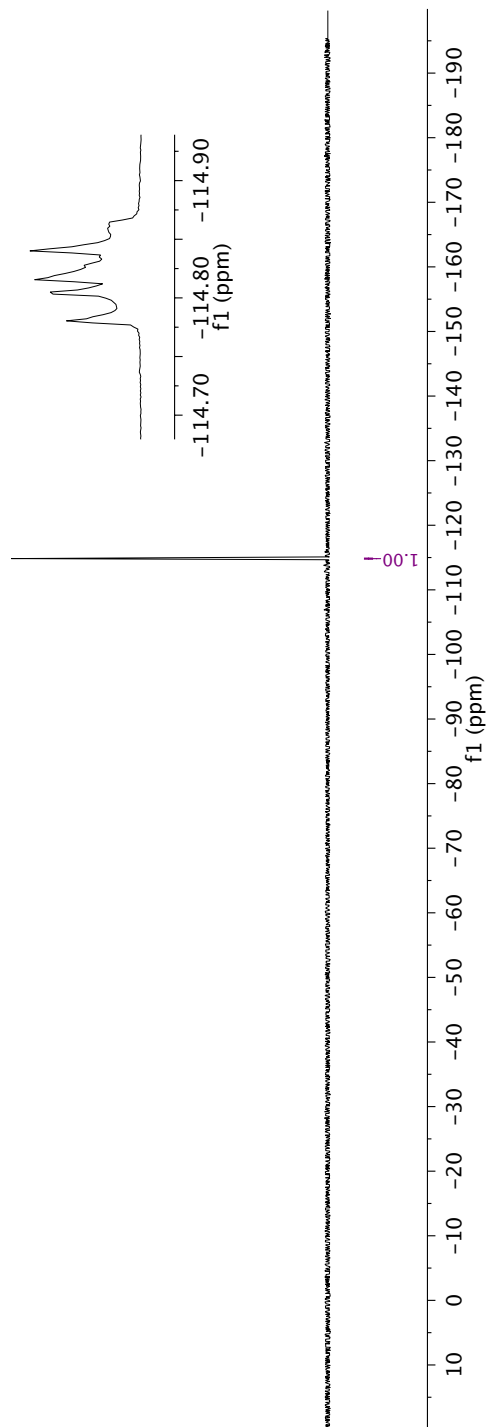
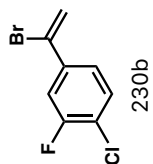


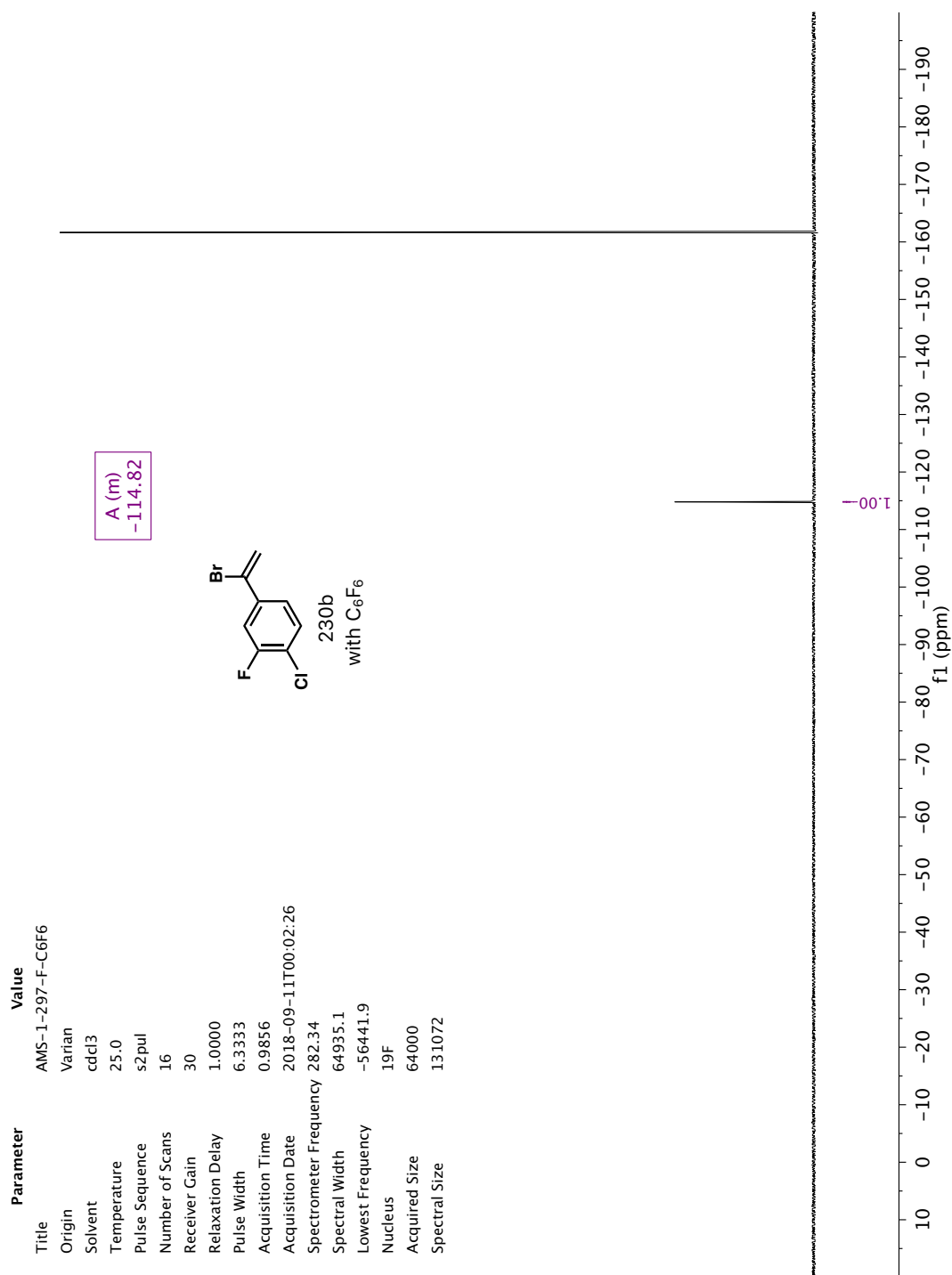


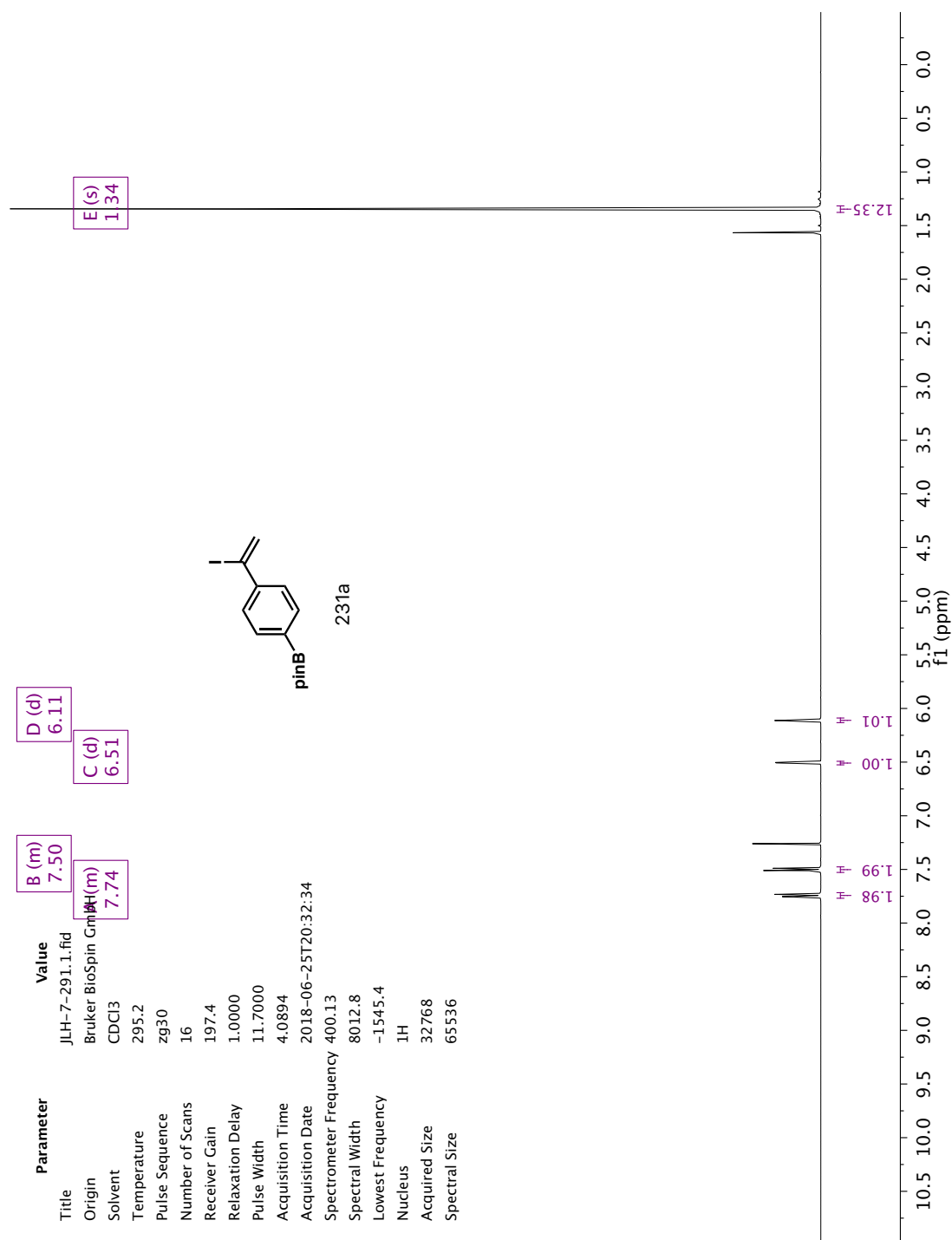


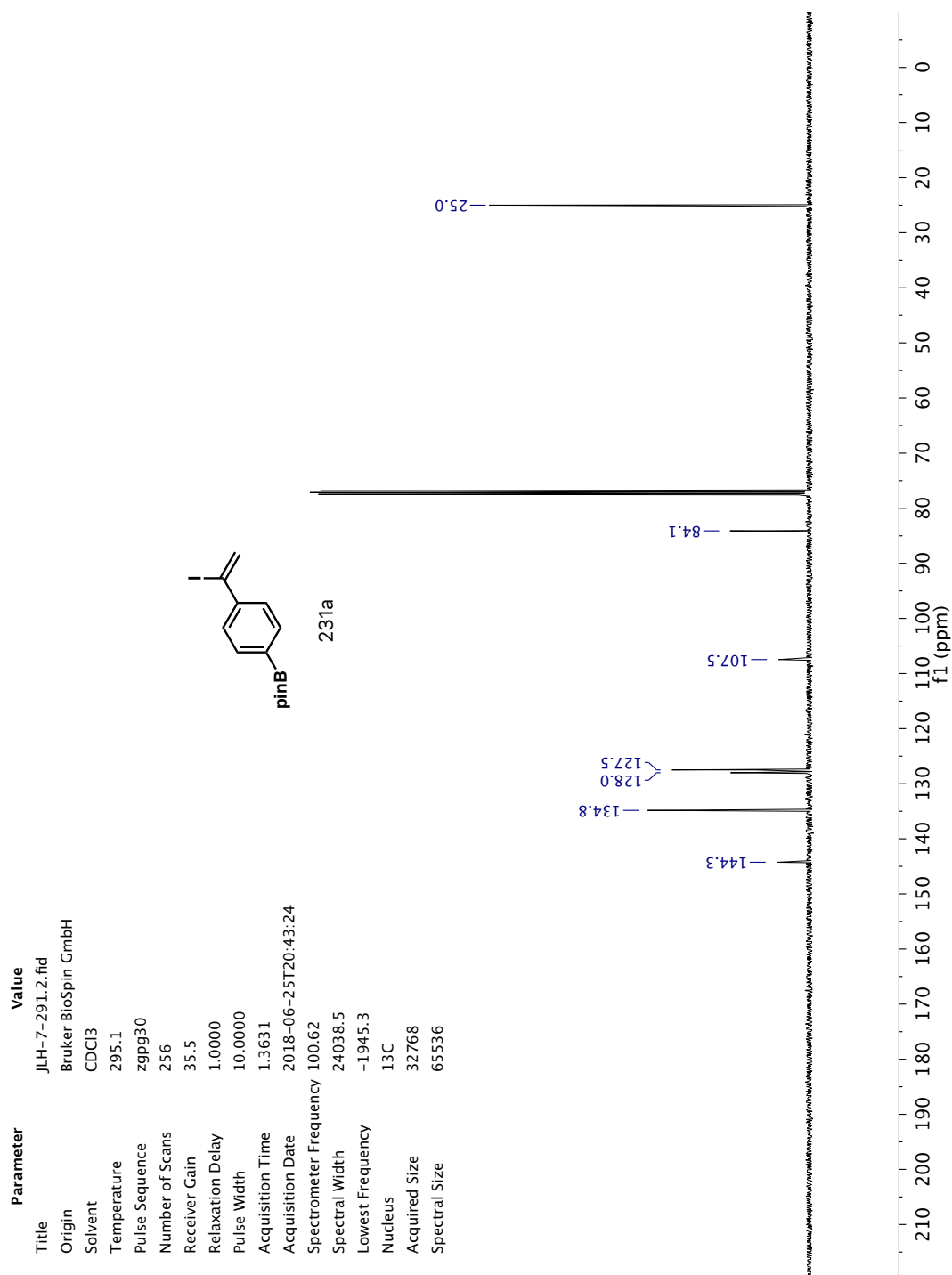
Parameter	Value
Title	AMS-1-297-F
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	16
Receiver Gain	30
Relaxation Delay	1.0000
Pulse Width	6.3333
Acquisition Time	0.9856
Acquisition Date	2018-09-10T23:53:00
Spectrometer Frequency	282.34
Spectral Width	64935.1
Lowest Frequency	-56450.9
Nucleus	¹⁹ F
Acquired Size	64000
Spectral Size	131072

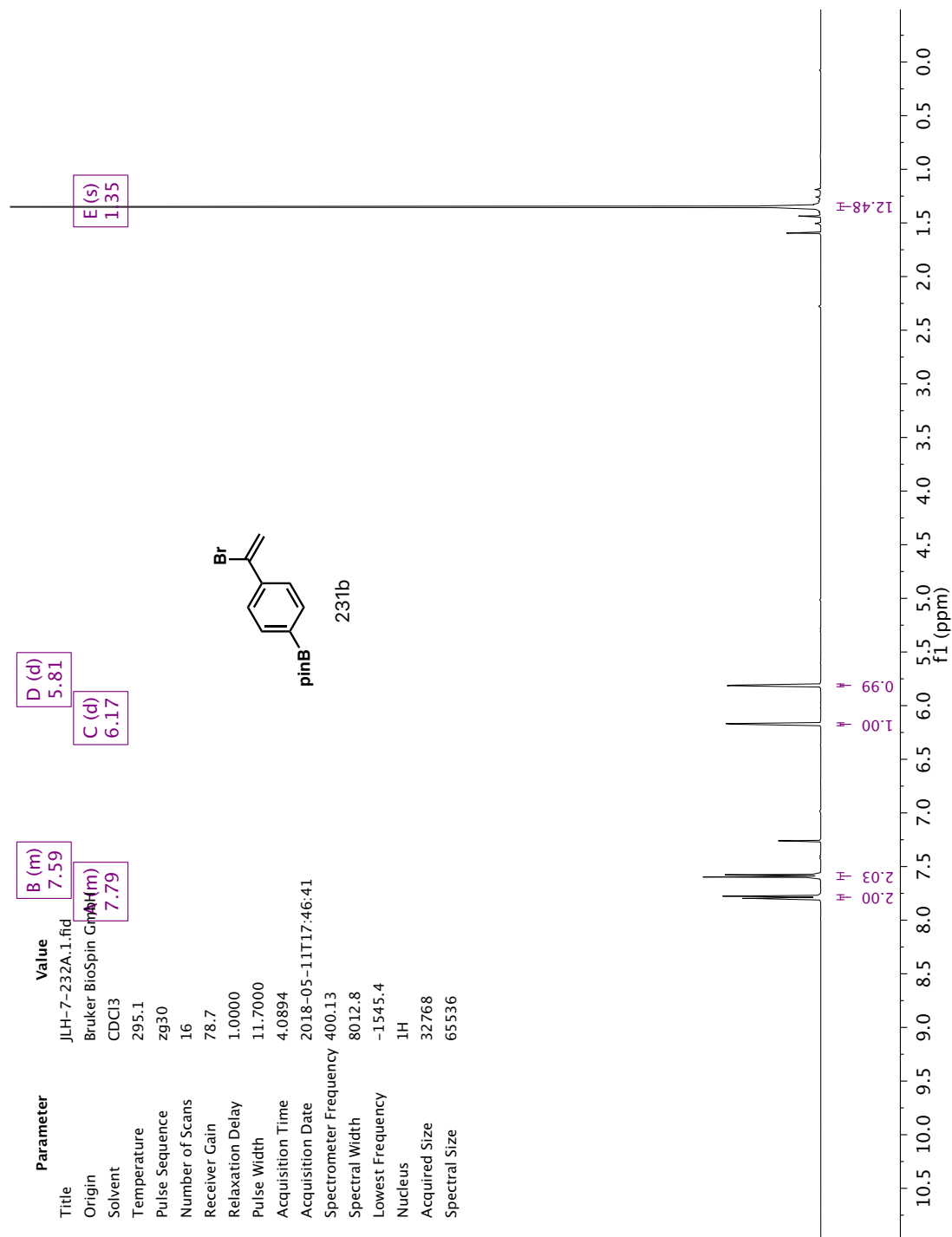
A (m)
-114.82

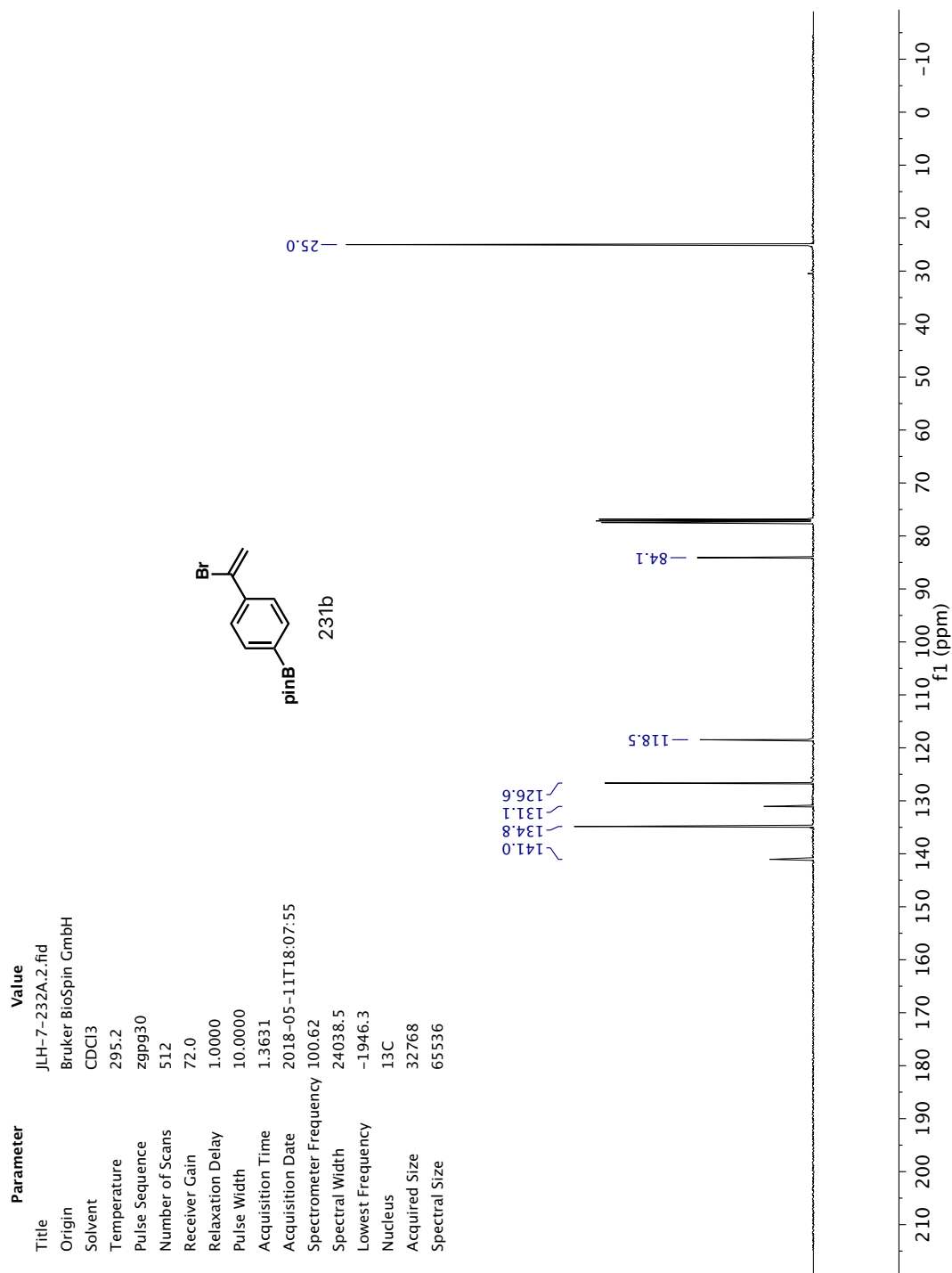


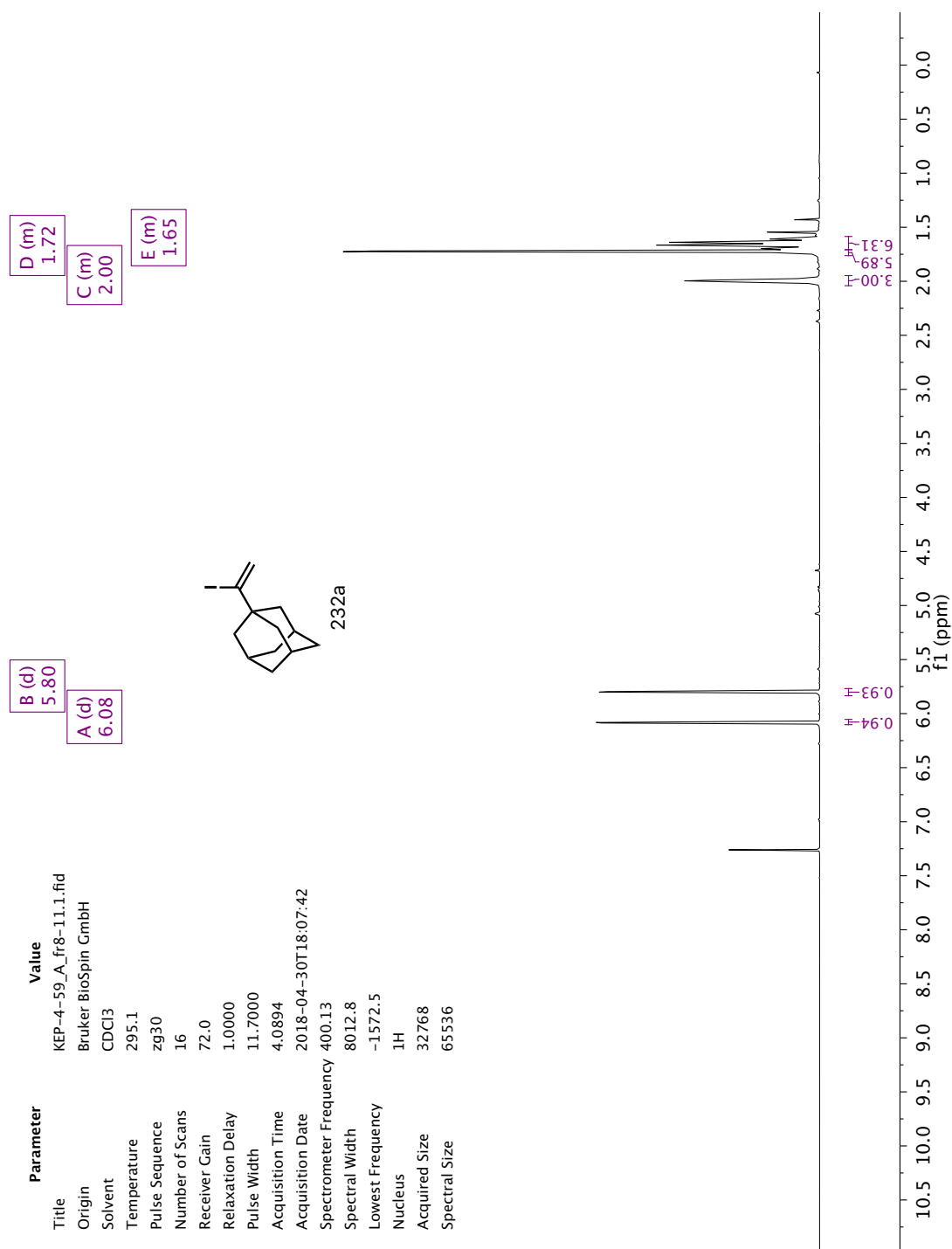












Parameter	Value
Title	KEP-4-59_A_fr8-11.2.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl ₃
Temperature	295.1
Pulse Sequence	zgpg30
Number of Scans	128
Receiver Gain	72.0
Relaxation Delay	2.0000
Pulse Width	10.0000
Acquisition Time	1.3631
Acquisition Date	2018-04-30T18:15:32
Spectrometer Frequency	100.62
Spectral Width	24038.5
Lowest Frequency	-1958.0
Nucleus	¹³ C
Acquired Size	32768
Spectral Size	65536

