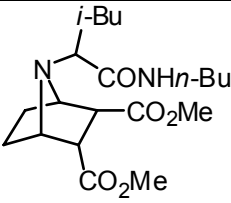
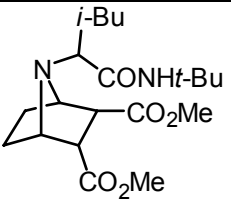
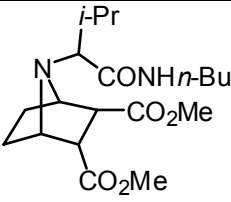
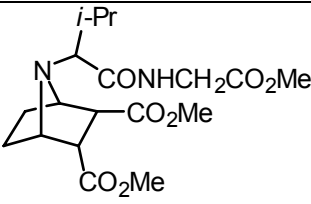
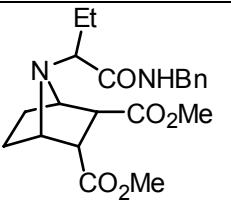
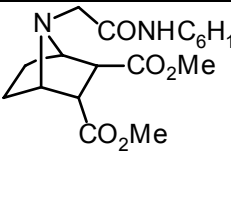
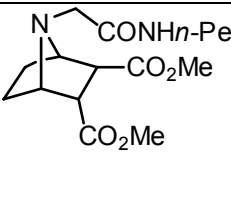


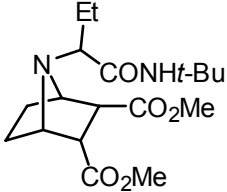
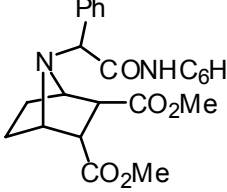
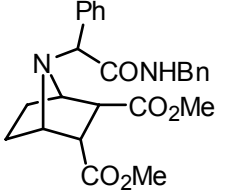
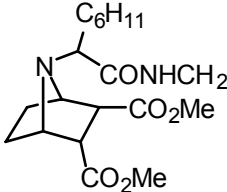
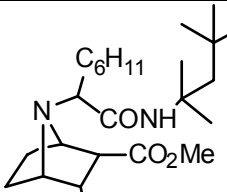
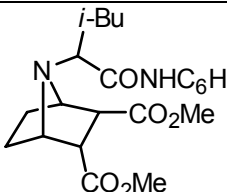
A Novel Intramolecular Ugi Reaction with 7-Azabicyclo[2.2.1]heptane Derivatives Followed by Post-Condensation Acylations: a New Entry to Azanorbornyl Peptidomimetics

Andrea Basso, Luca Banfi, Giuseppe Guanti and Renata Riva
Università degli Studi di Genova, Dipartimento di Chimica e Chimica Industriale.
Via Dodecaneso 31, 16146 Genova (Italy)

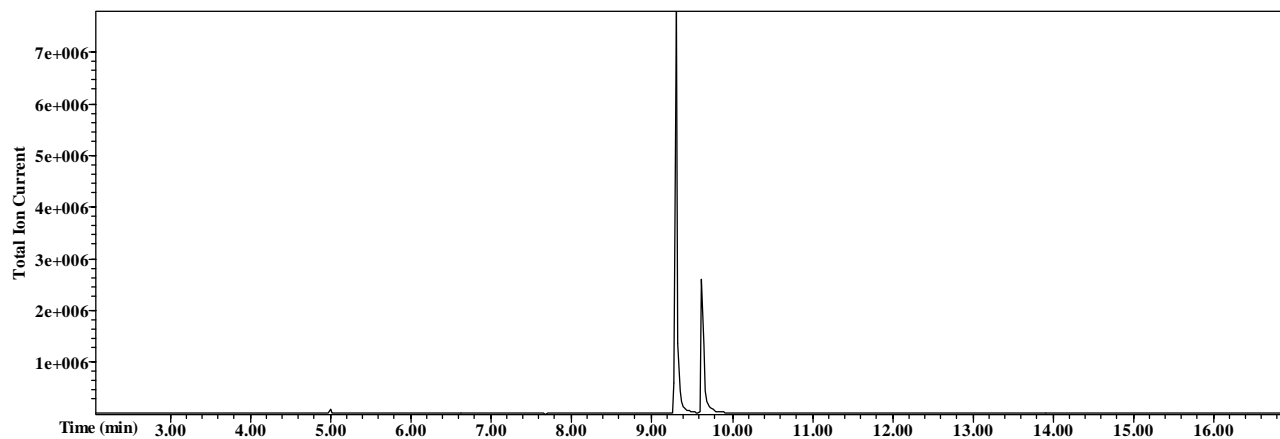
Supplementary Material
Analytical data for compounds **13a-m**

HR-MS data for compounds 13a-m

Structure	Data:
	Identification: 13a Formula: C₂₀H₃₄N₂O₅ Exact Mass: 382,2468 Analysis: HR-IE Found: 382,2463
	Identification: 13b Formula: C₂₀H₃₄N₂O₅ Exact Mass: 382,2468 Analysis: HR-IE Found: 382,2474
	Identification: 13c Formula: C₁₉H₃₂N₂O₅ Exact Mass: 368,2311 Analysis: HR-IE Found: 368,2320
	Identification: 13d Formula: C₁₈H₂₈N₂O₇ Exact Mass: 384,1897 Analysis: HR-IE Found: 384,1906
	Identification: 13e Formula: C₂₁H₂₈N₂O₅ Exact Mass: 388,1998 Analysis: HR-IE Found: 388,1992
	Identification: 13f Formula: C₁₈H₂₈N₂O₅ Exact Mass: 352,1998 Analysis: HR-IE Found: 352,1994
	Identification: 13g Formula: C₁₇H₂₈N₂O₅ Exact Mass: 340,1998 Analysis: HR-IE Found: 340,1998

	<p>Identification: 13h Formula: $C_{18}H_{30}N_2O_5$ Exact Mass: 354,2155 Analysis: HR-IE Found: 354,2161</p>
	<p>Identification: 13i Formula: $C_{24}H_{32}N_2O_5$ Exact Mass: 428,2311 Analysis: HR-IE Found: 428,2305</p>
	<p>Identification: 13j Formula: $C_{25}H_{28}N_2O_5$ Exact Mass: 436,1998 Analysis: HR-IE Found: 436,2002</p>
	<p>Identification: 13k Formula: $C_{21}H_{32}N_2O_7$ Exact Mass: 424,2210 Analysis: HR-IE Found: 424,2219</p>
	<p>Identification: 13l Formula: $C_{26}H_{44}N_2O_5$ Exact Mass: 464,3250 Analysis: HR-IE Found: 464,3260</p>
	<p>Identification: 13m Formula: $C_{23}H_{32}N_2O_6$ Exact Mass: 432,2260 Analysis: HR-IE Found: 432,2250</p>

Compound 13a



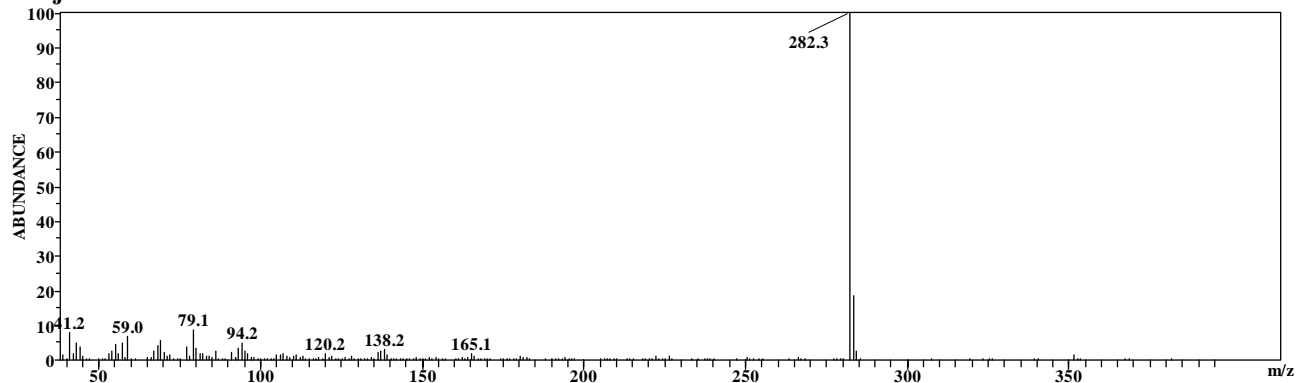
Acquired : 10 Dec 107 5:38 pm using AcqMethod ANDHIGH

Retention Time	Area	Area %	Ratio %
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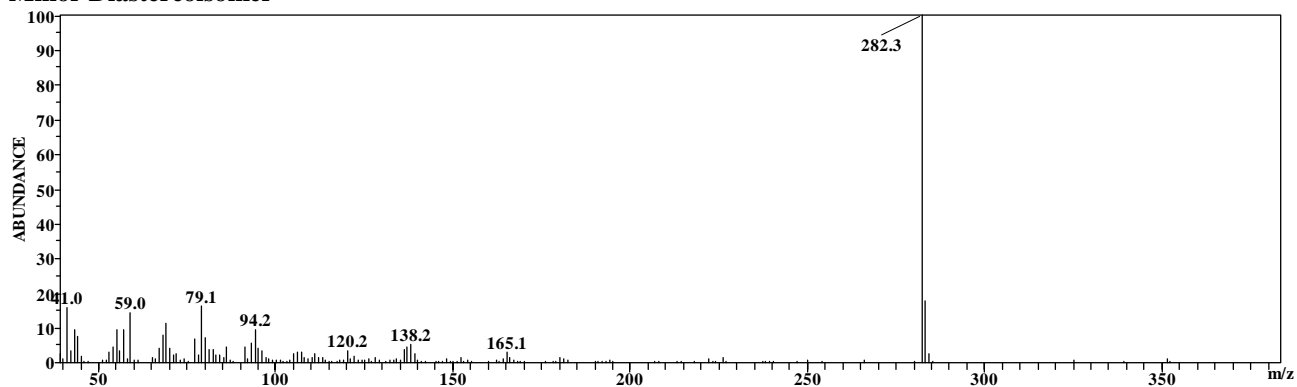
Total Ion Chromatogram

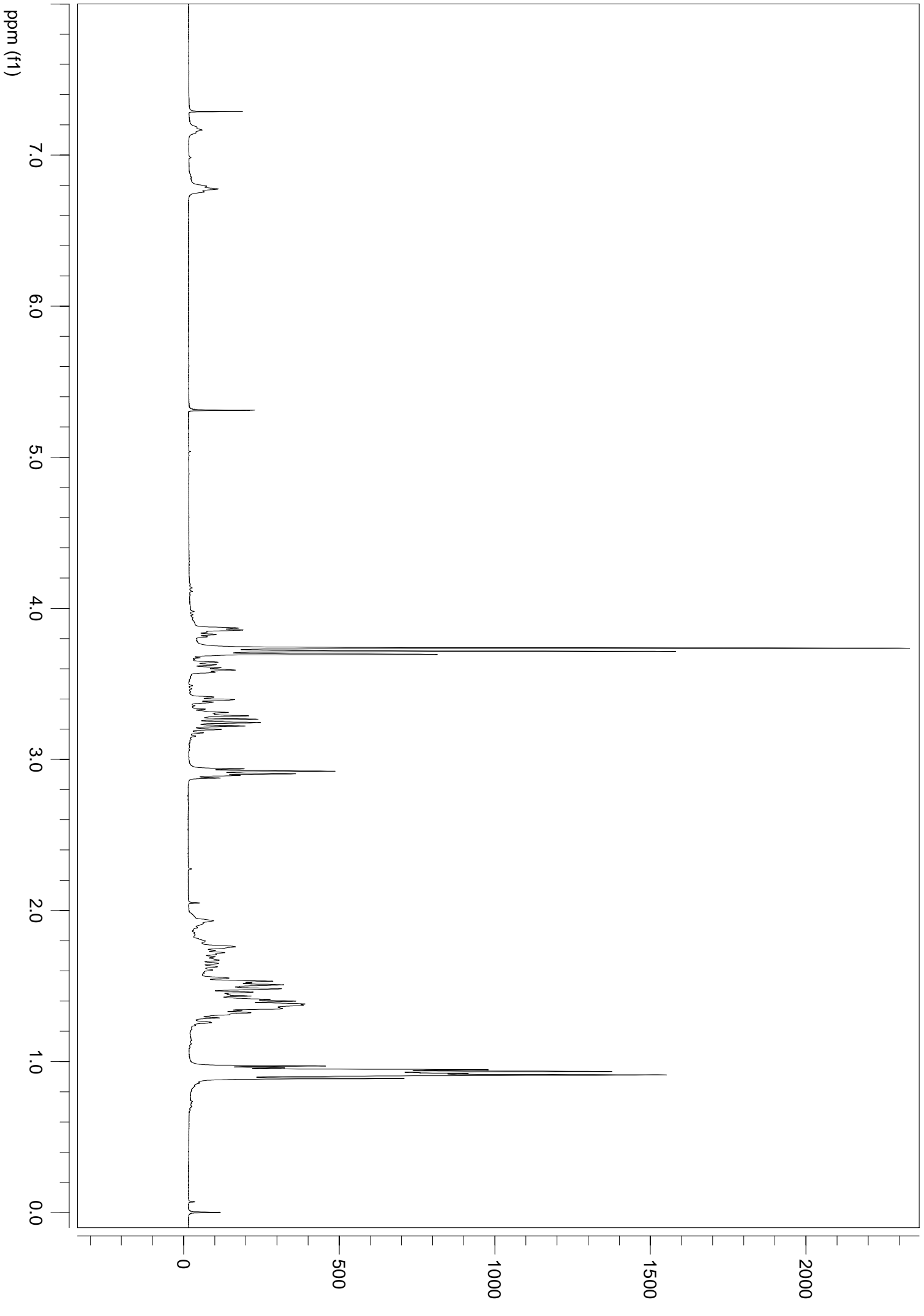
9.322	150914537	67.554	100.000
9.647	72483774	32.446	48.030

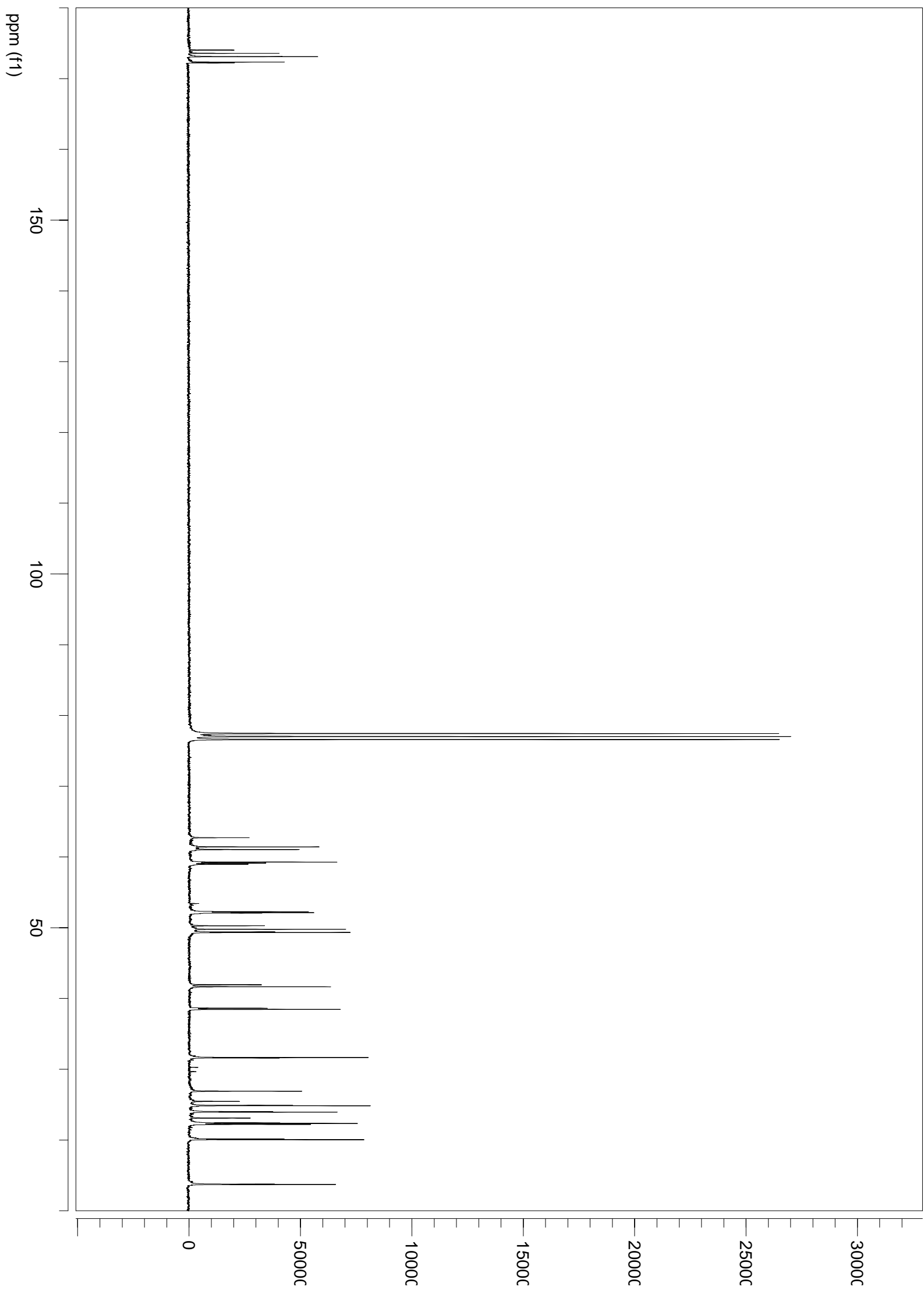
Major Diastereoisomer



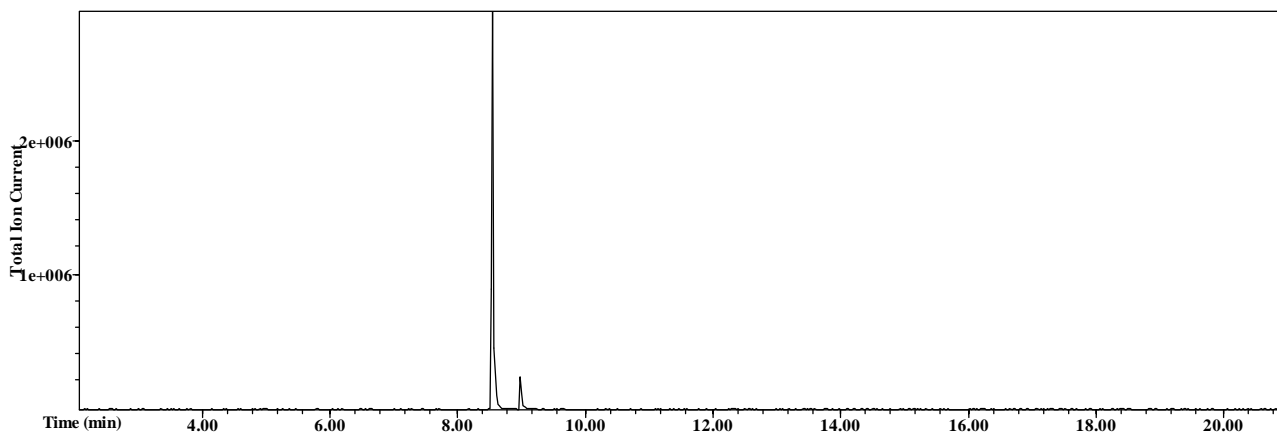
Minor Diastereoisomer







Compound 13b



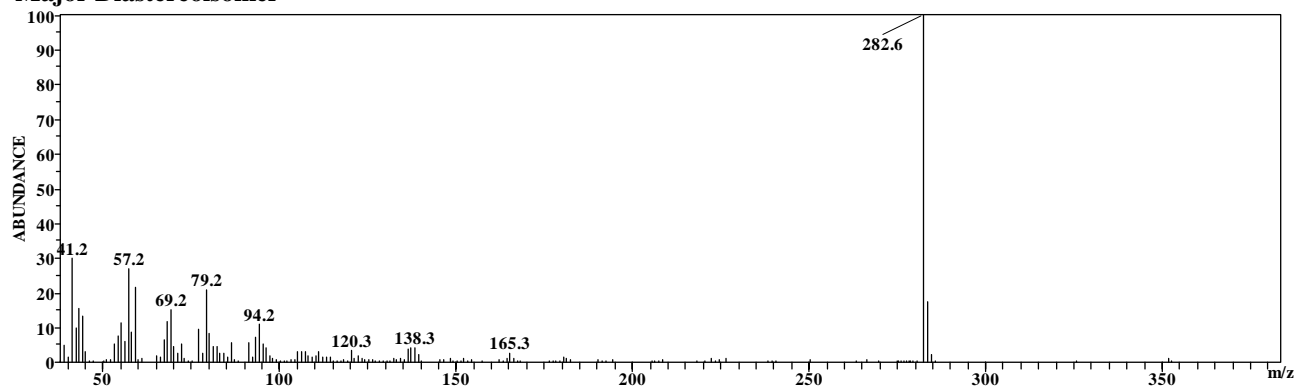
Acquired : 18 Dec 107 10:58 am using AcqMethod ANDHIGH

Retention Time	Area	Area %	Ratio %
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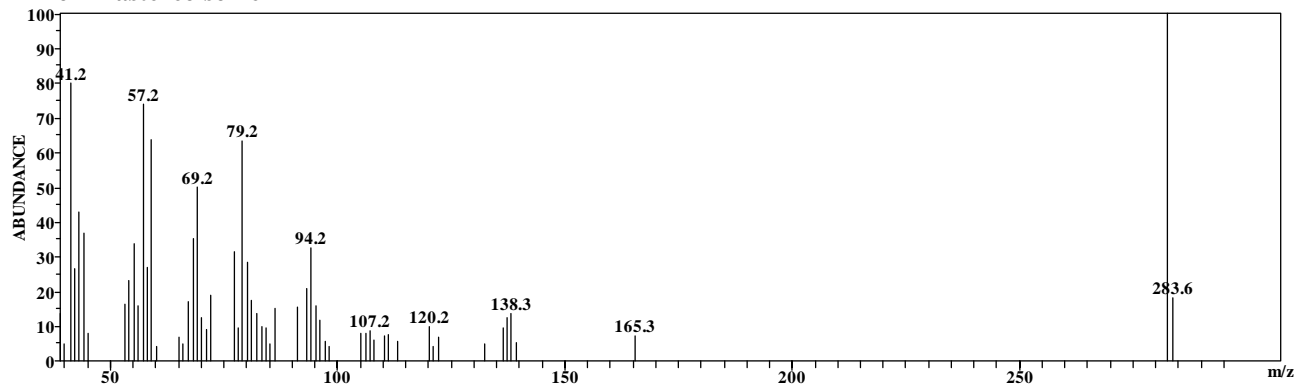
Total Ion Chromatogram

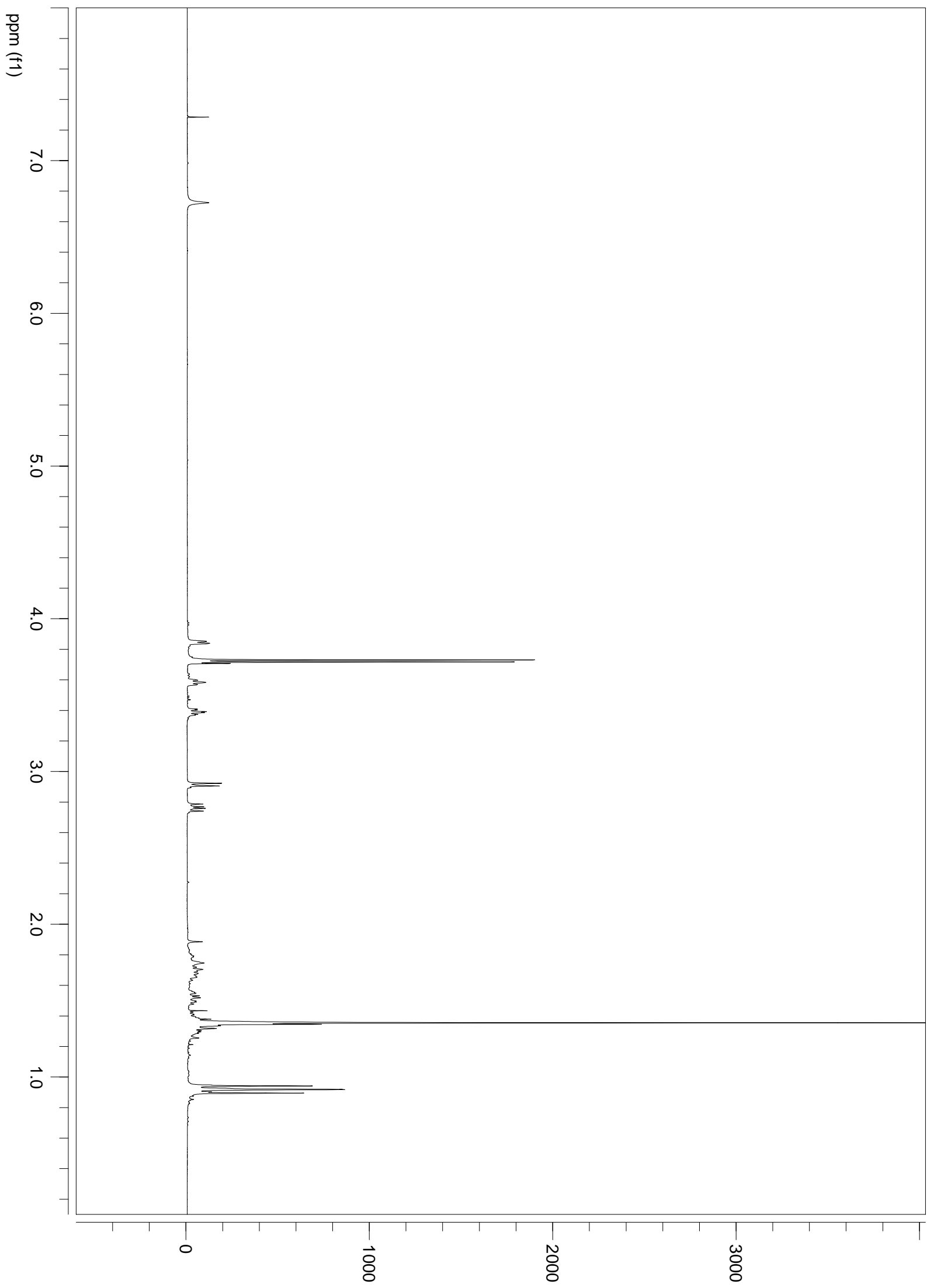
8.572	61622756	92.041	100.000
9.010	5328961	7.959	8.648

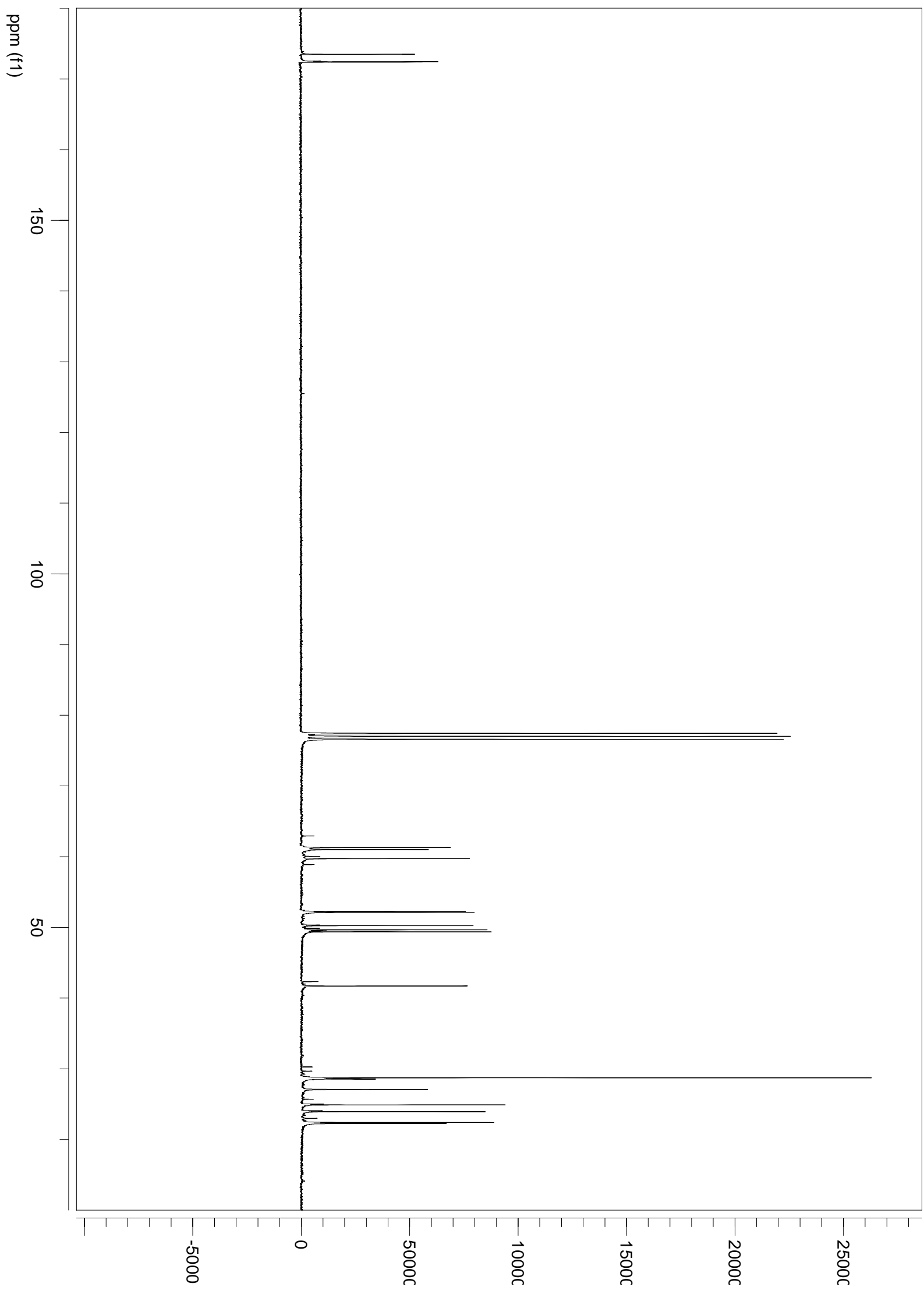
Major Diastereoisomer



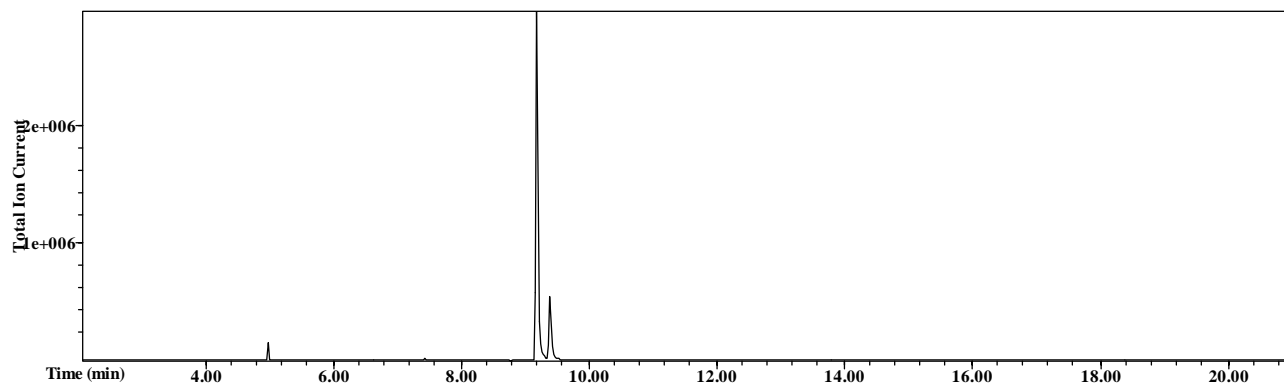
Minor Diastereoisomer







Compound 13c



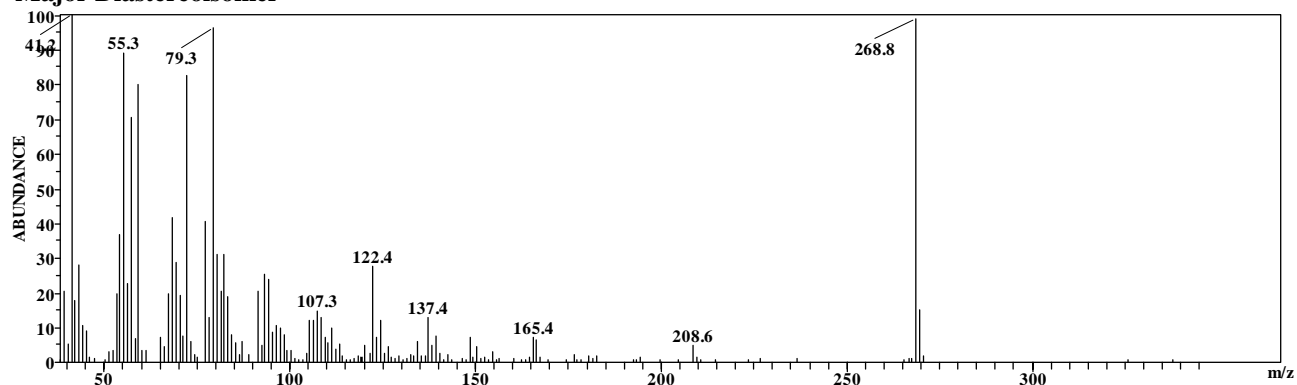
Acquired : 19 Dec 107 4:23 pm using AcqMethod ANDHIGH

Retention Time	Area	Area %	Ratio %
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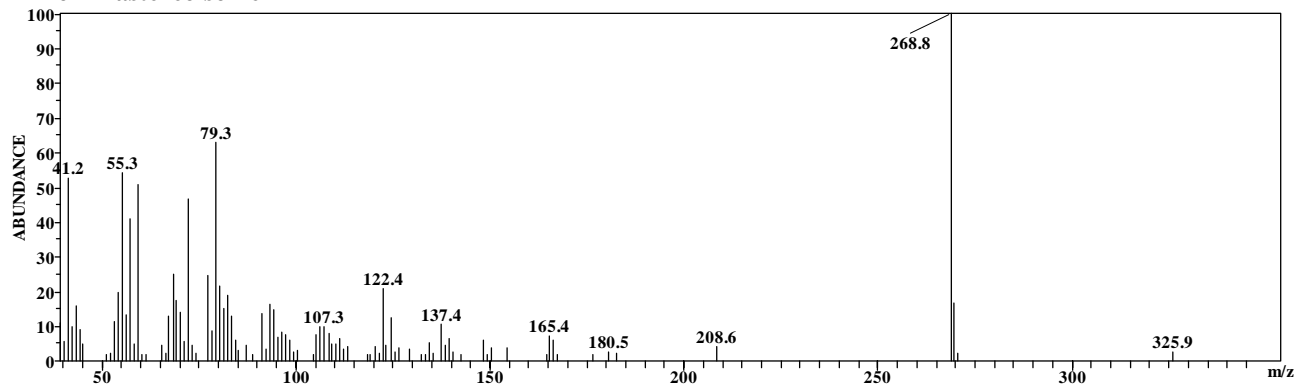
Total Ion Chromatogram

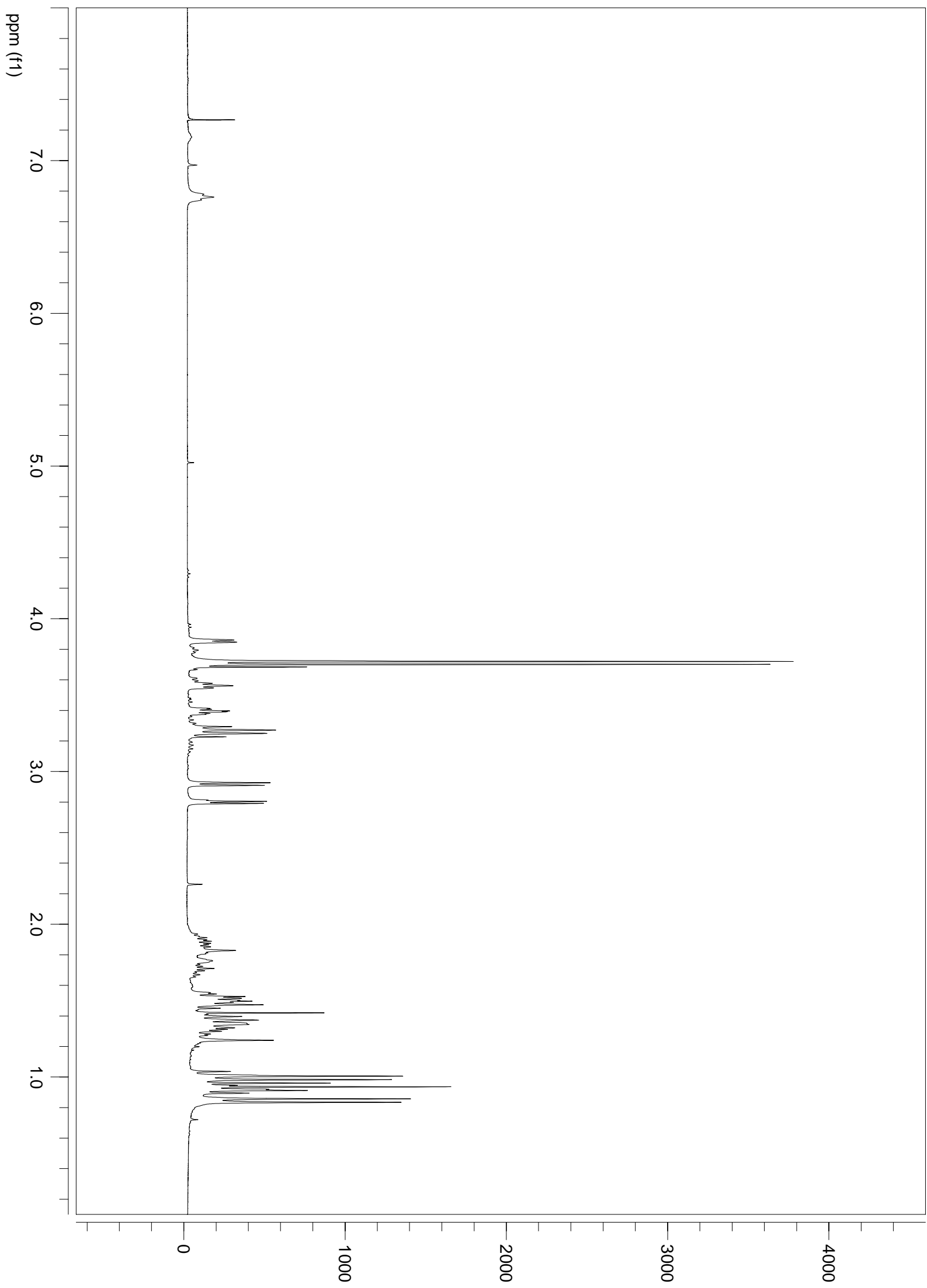
4.983	2090787	4.055	5.741
9.196	36418309	70.626	100.000
9.410	13056070	25.320	35.850

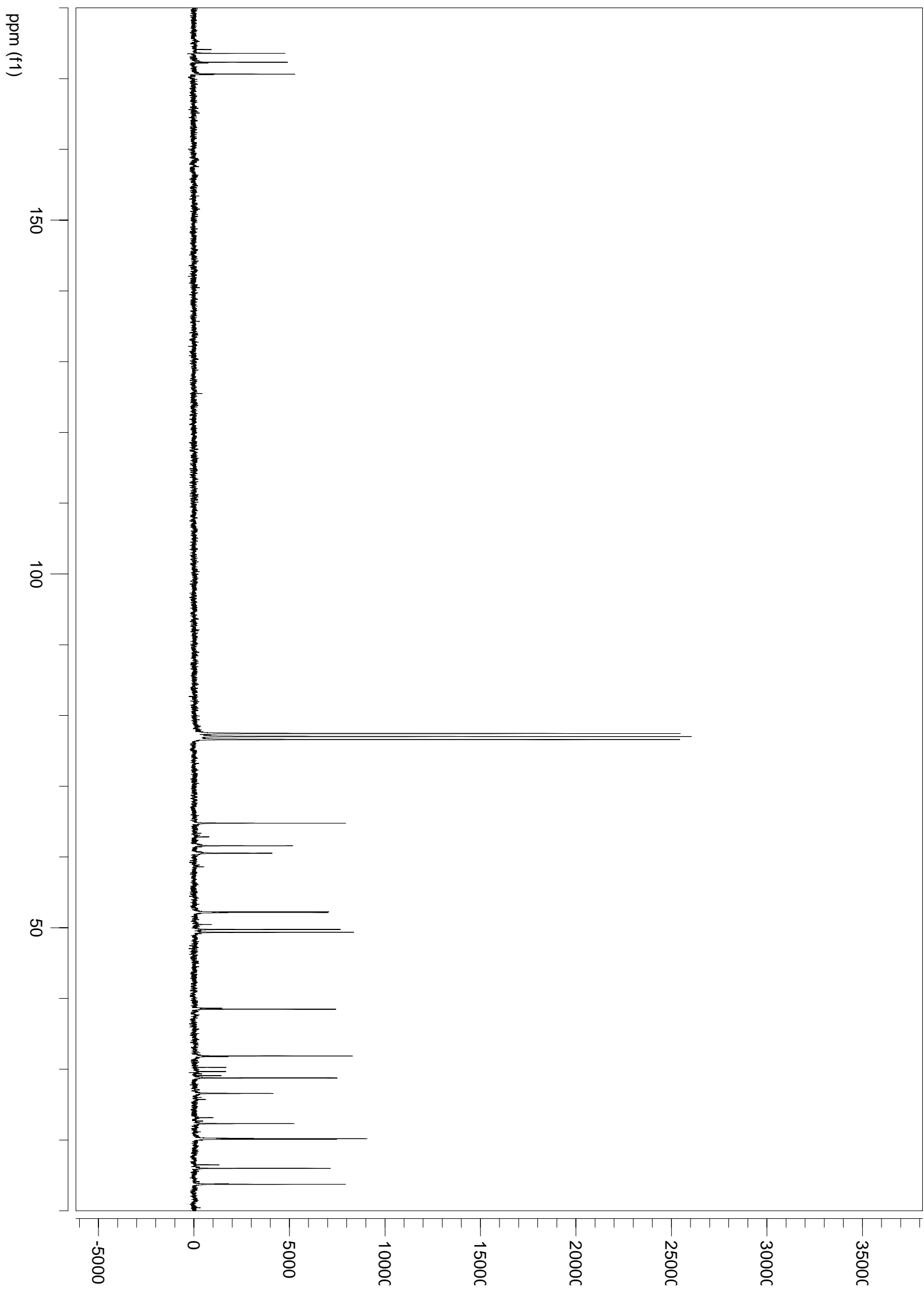
Major Diastereoisomer



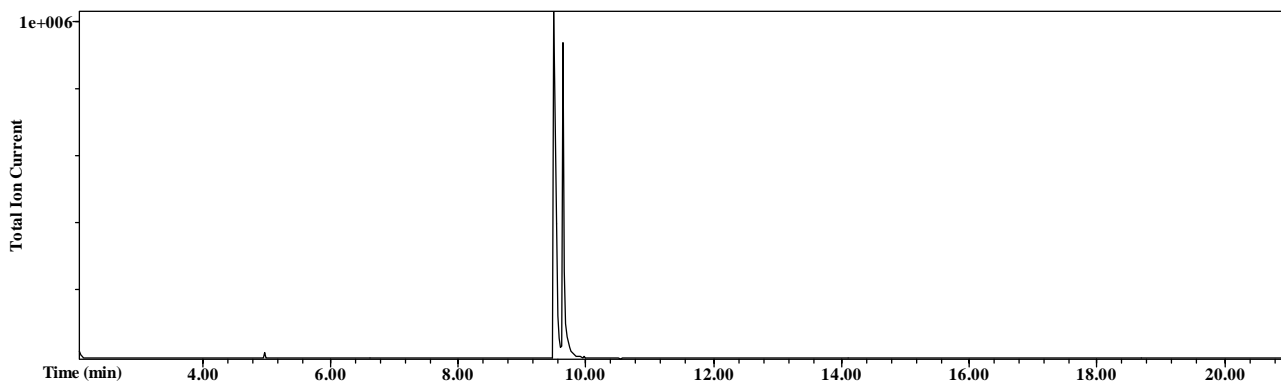
Minor Diastereoisomer







Compound 13d



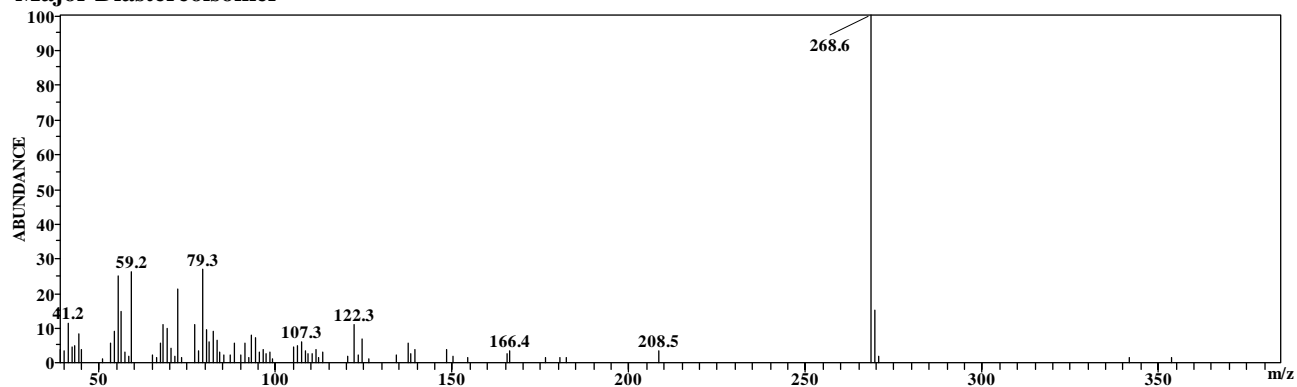
Acquired : 19 Dec 107 12:24 pm using AcqMethod ANDHIGH

Retention Time	Area	Area %	Ratio %
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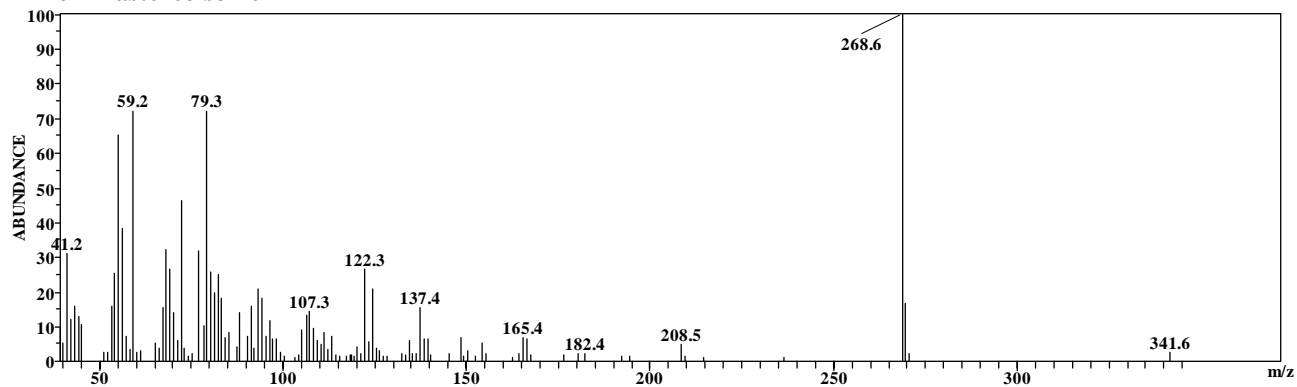
Total Ion Chromatogram

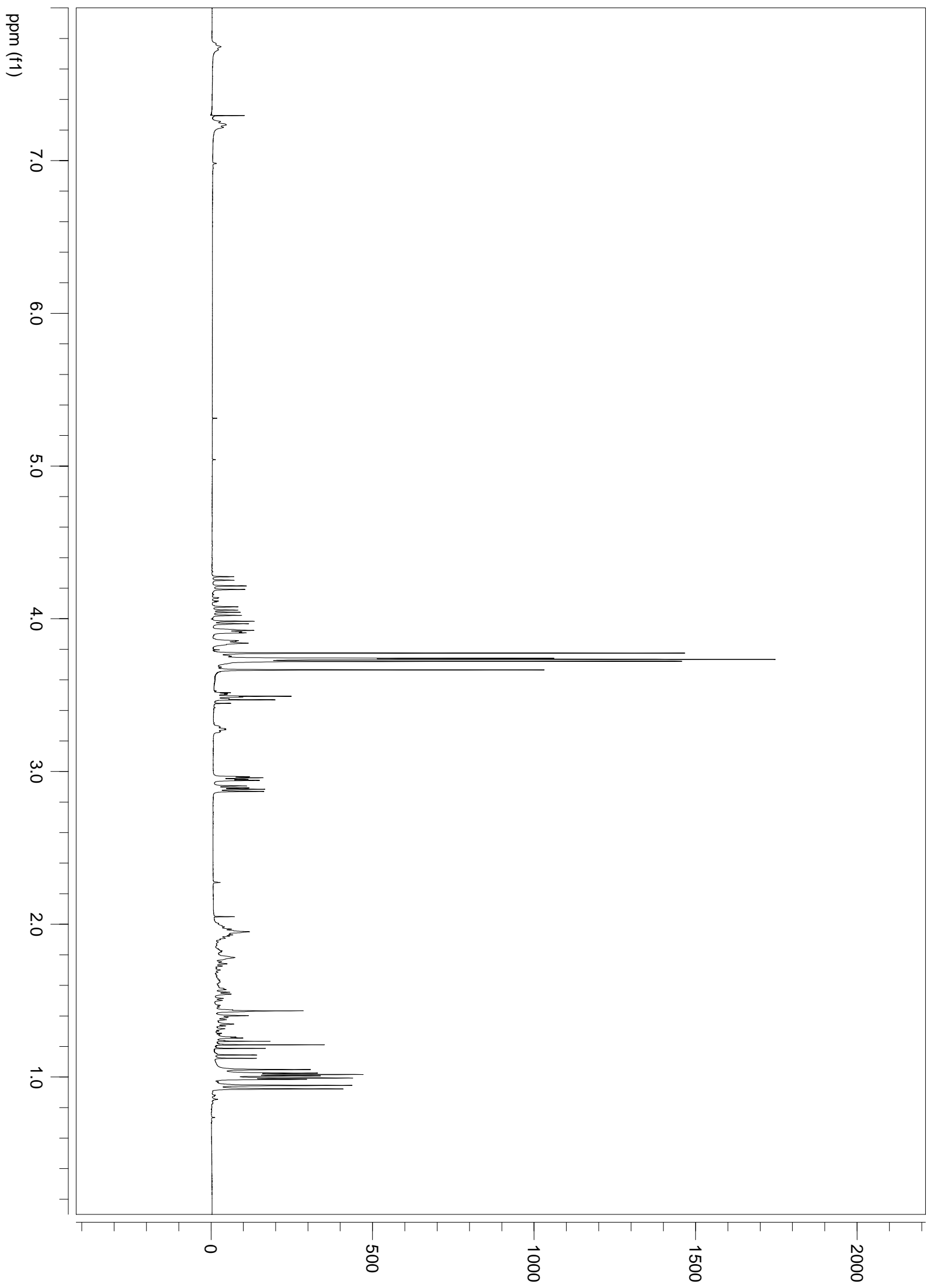
9.527	22398886	51.420	100.000
9.663	21161683	48.580	94.477

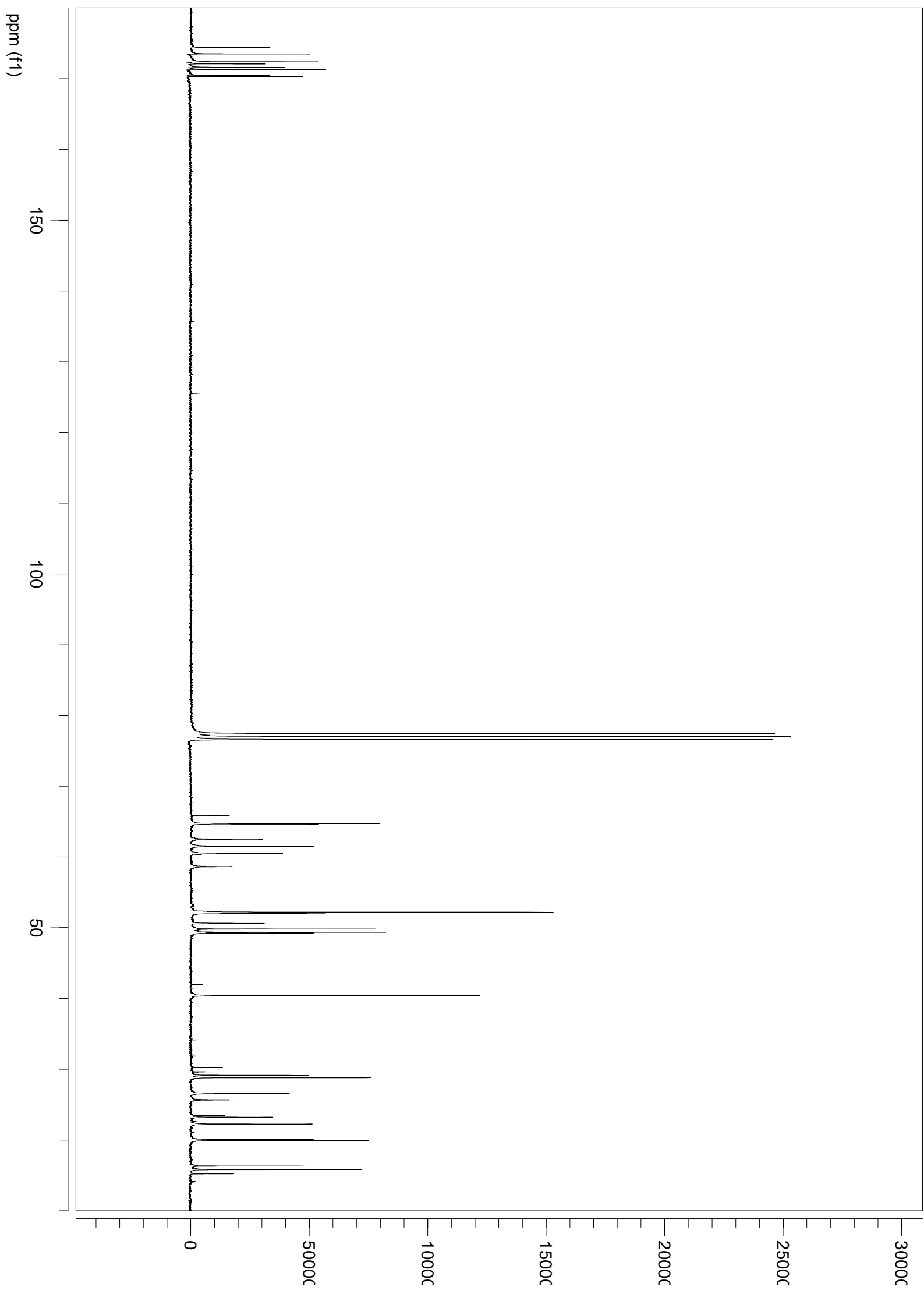
Major Diastereoisomer



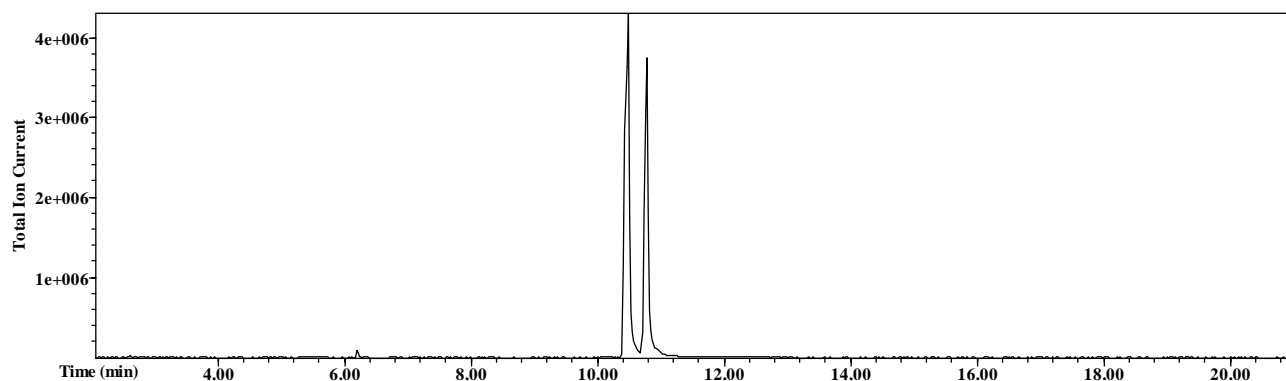
Minor Diastereoisomer







Compound 13e



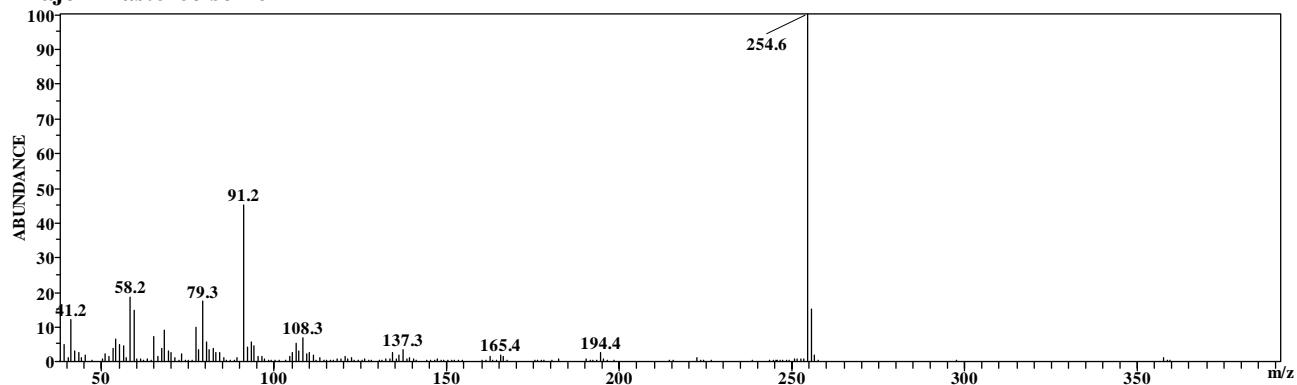
Acquired : 20 Dec 107 6:17 pm using AcqMethod ANDHIGH

Retention Time	Area	Area %	Ratio %
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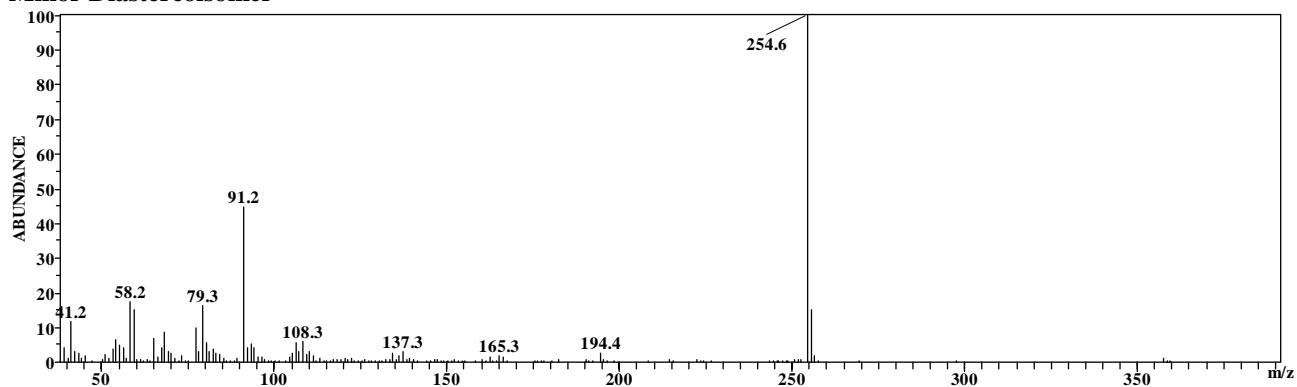
Total Ion Chromatogram

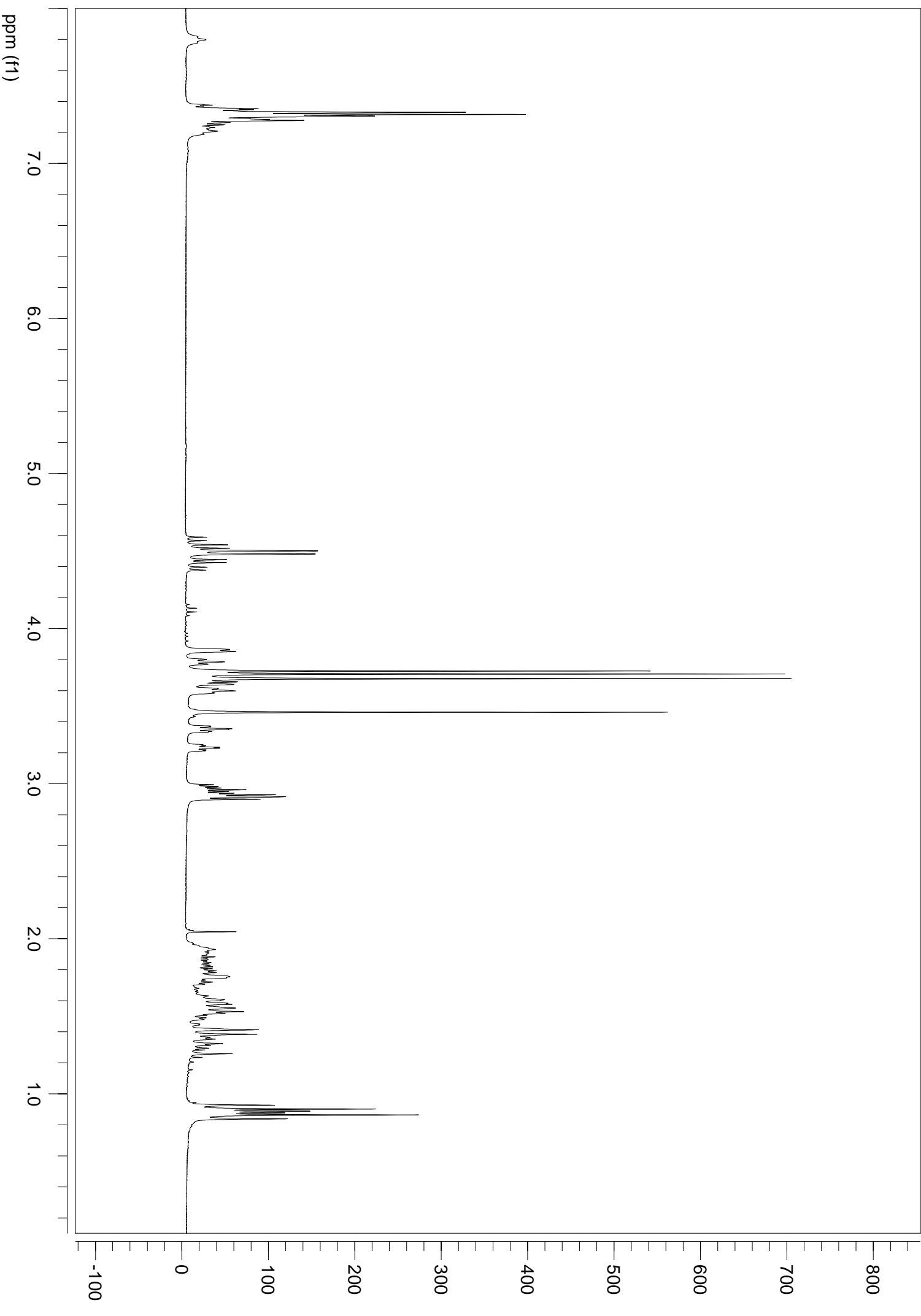
6.228	2174000	0.559	1.037
10.512	209561935	53.912	100.000
10.810	176977708	45.529	84.451

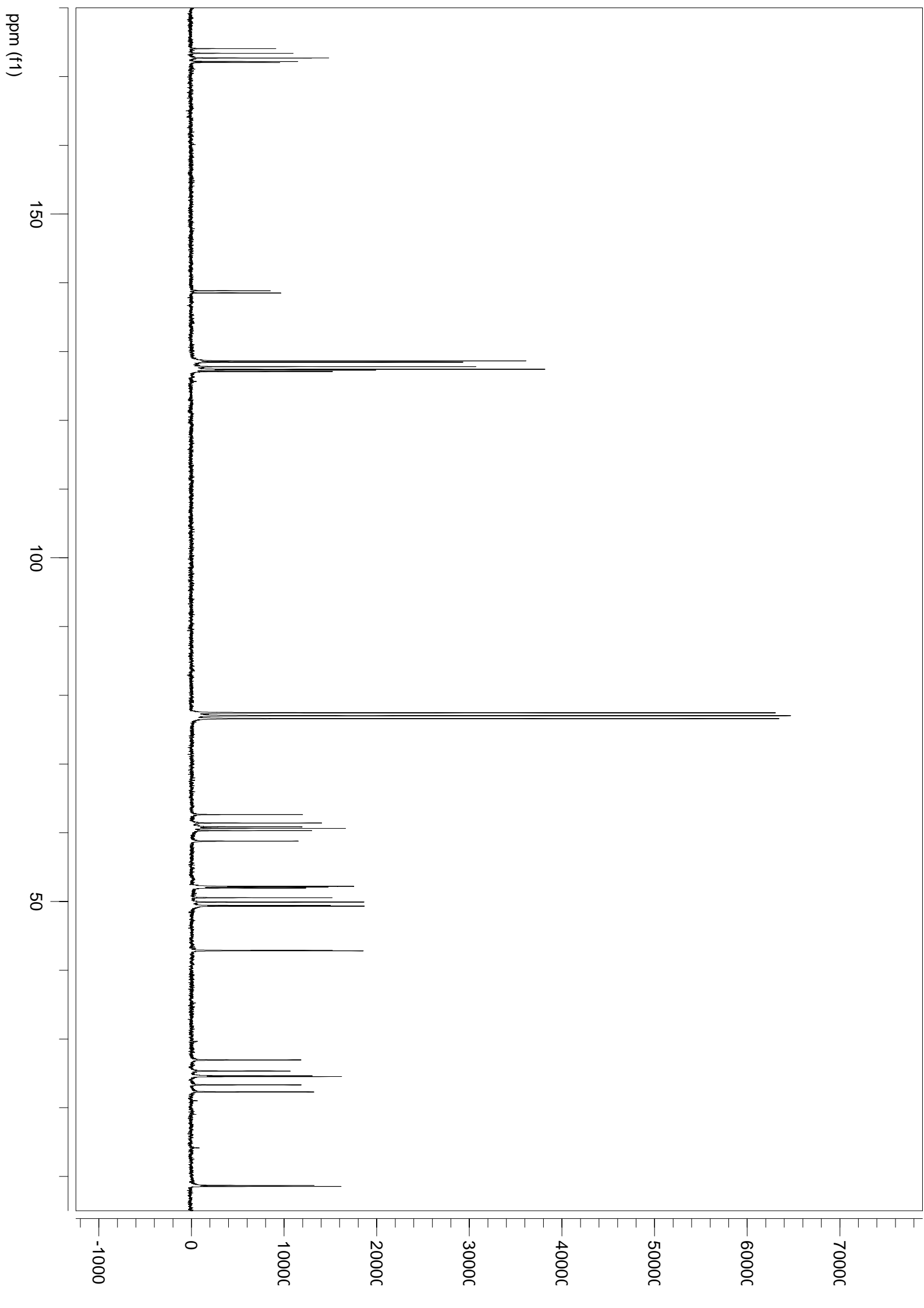
Major Diastereoisomer



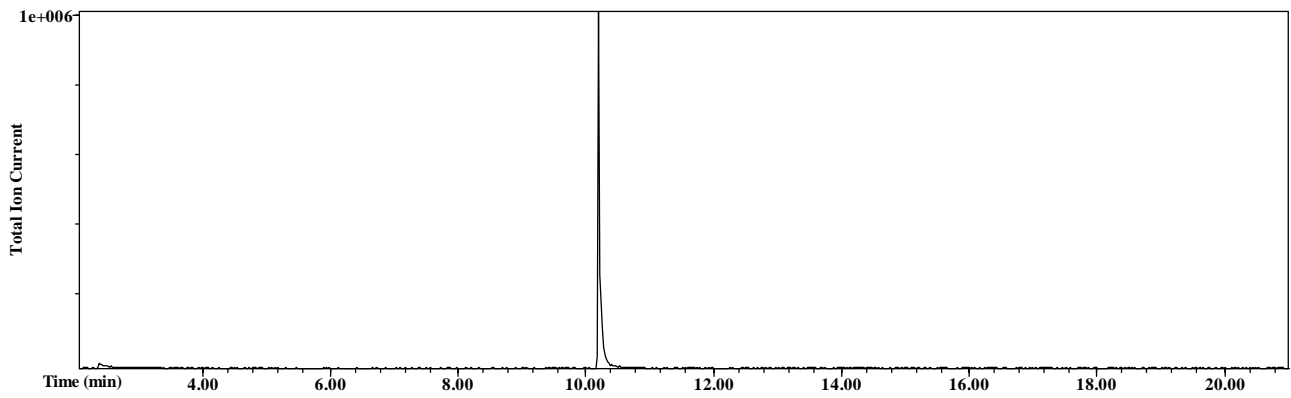
Minor Diastereoisomer







Compound 13f

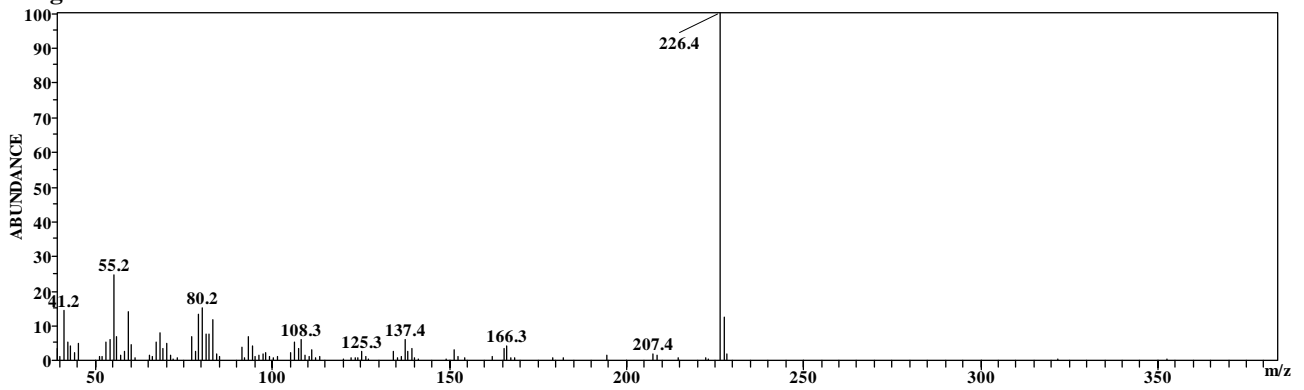


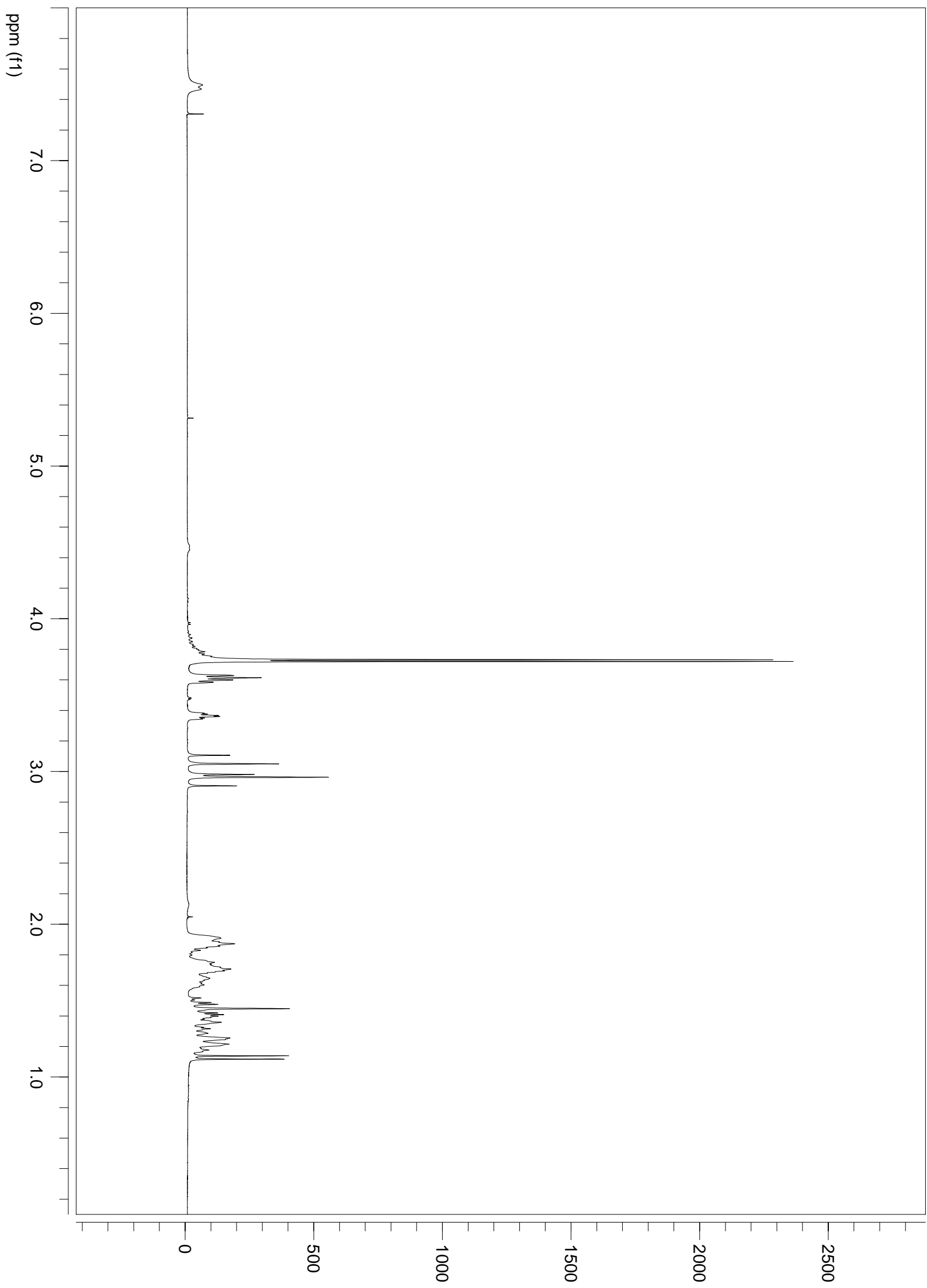
Acquired : 18 Dec 107 3:07 pm using AcqMethod ANDHIGH

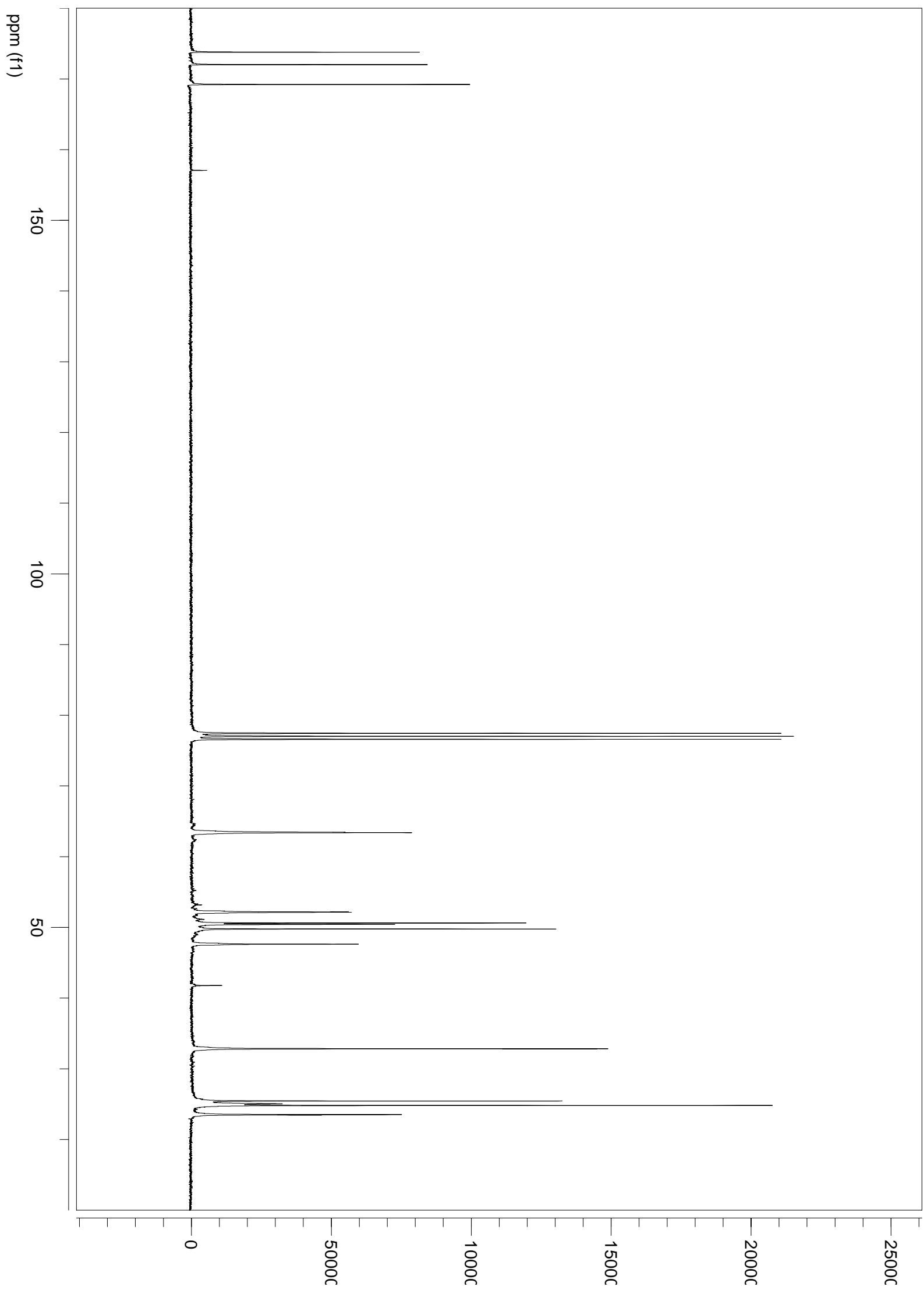
Retention Time	Area	Area %	Ratio %
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Total Ion Chromatogram			
10.238	21650669	100.000	100.000

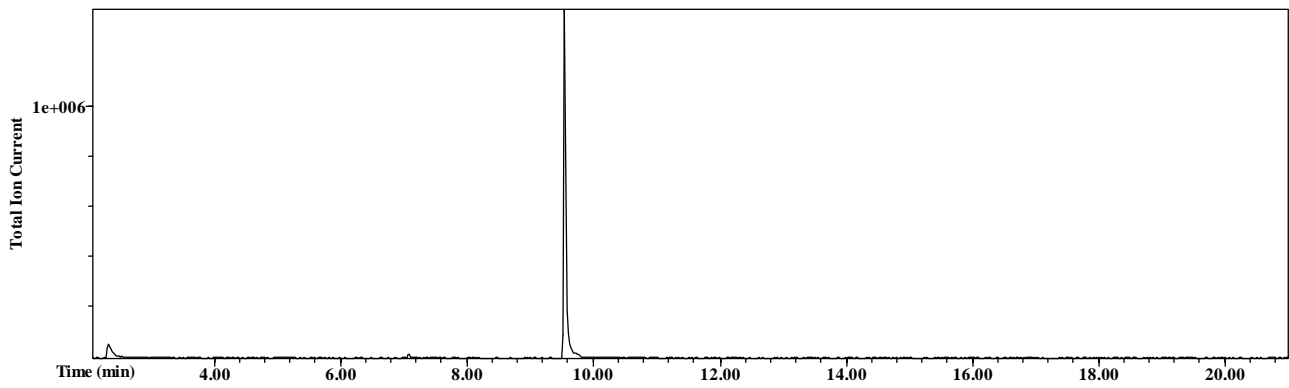
Single Product







Compound 13g



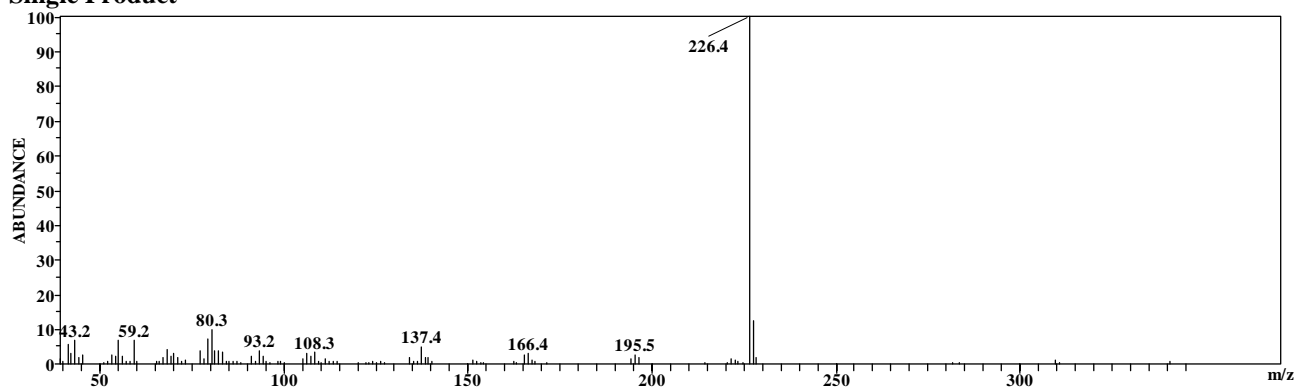
Acquired : 18 Dec 107 3:32 pm using AcqMethod ANDHIGH

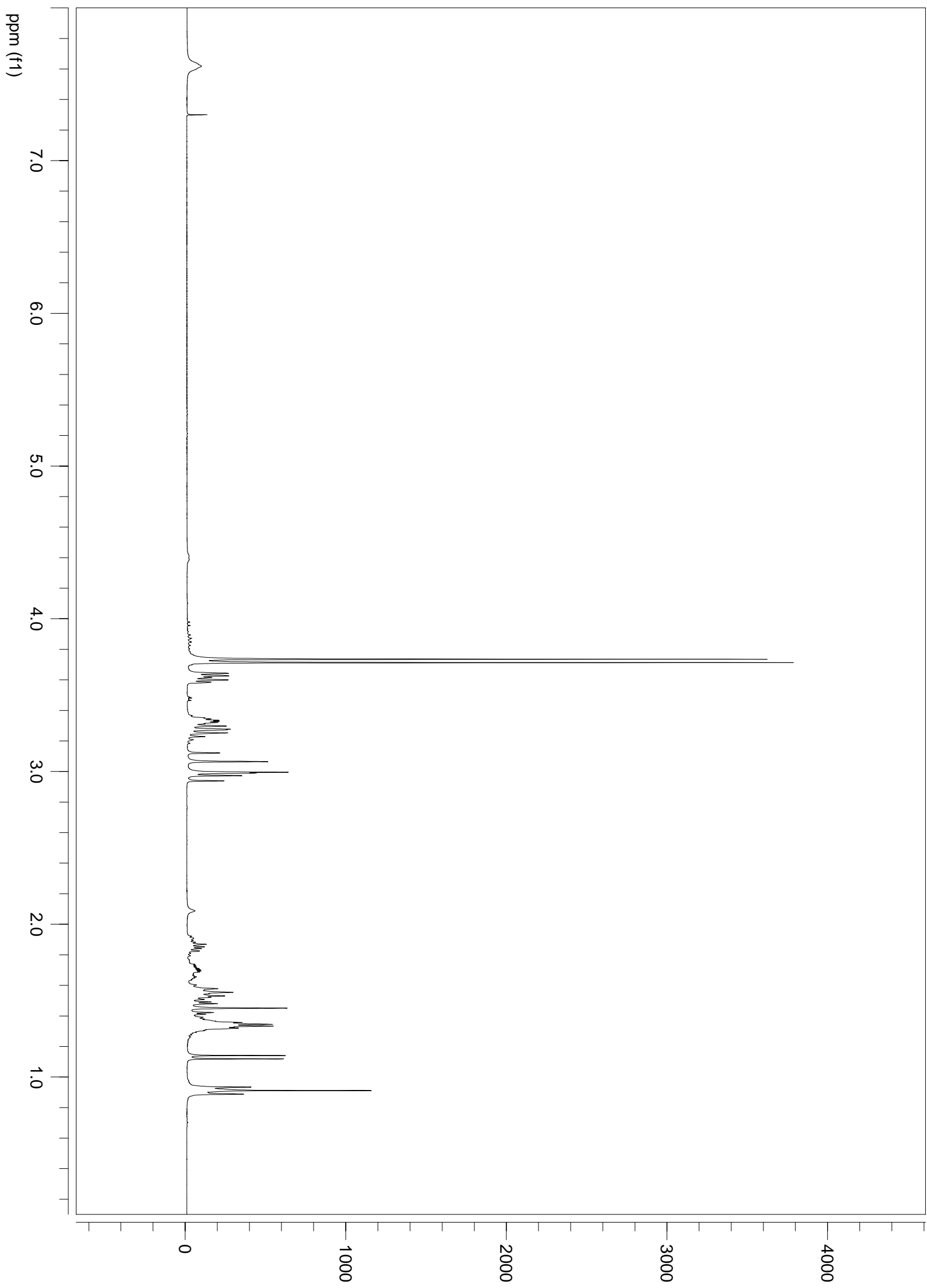
Retention Time	Area	Area %	Ratio %
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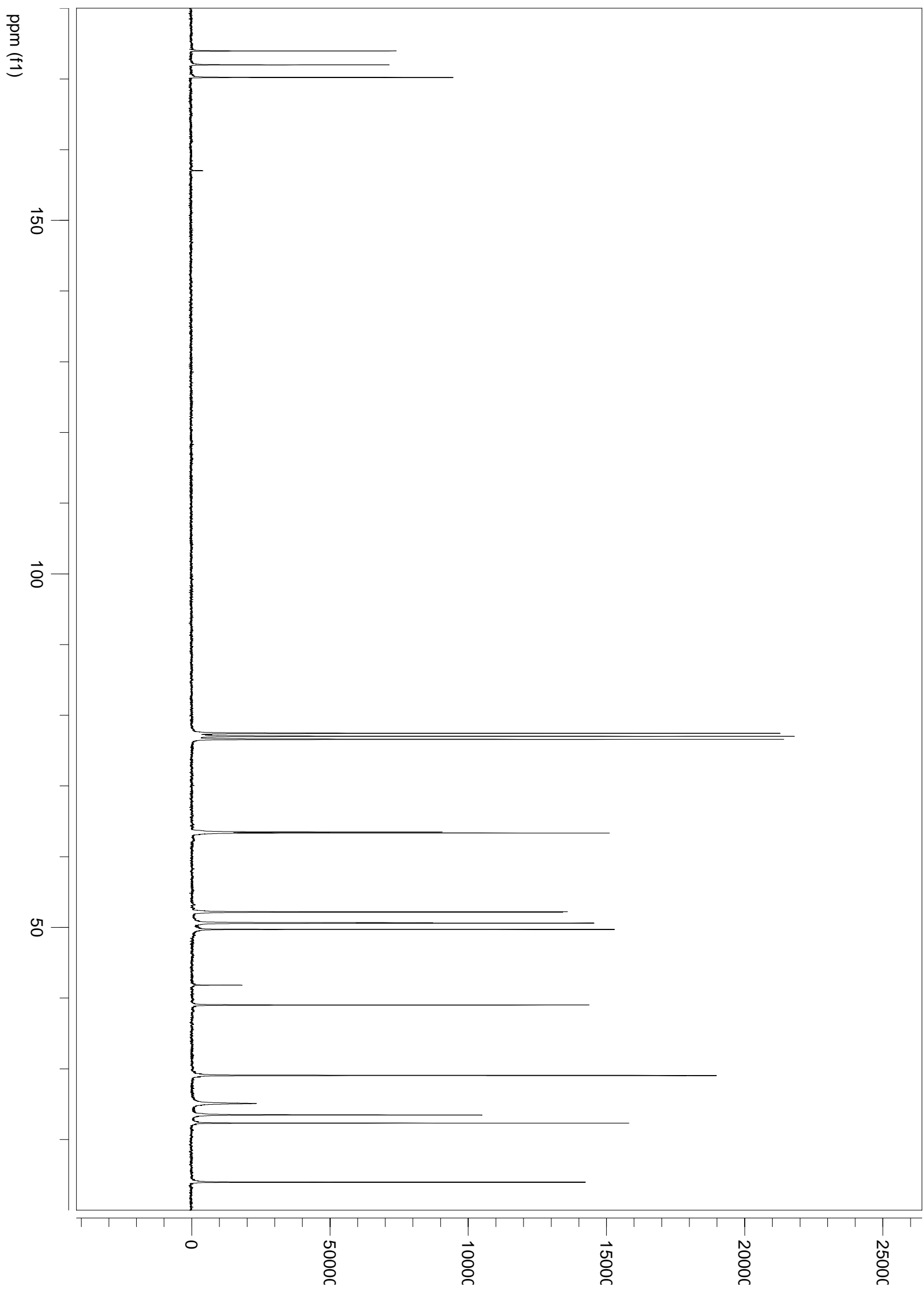
Total Ion Chromatogram

2.341	2688531	6.622	7.091
9.553	37912171	93.378	100.000

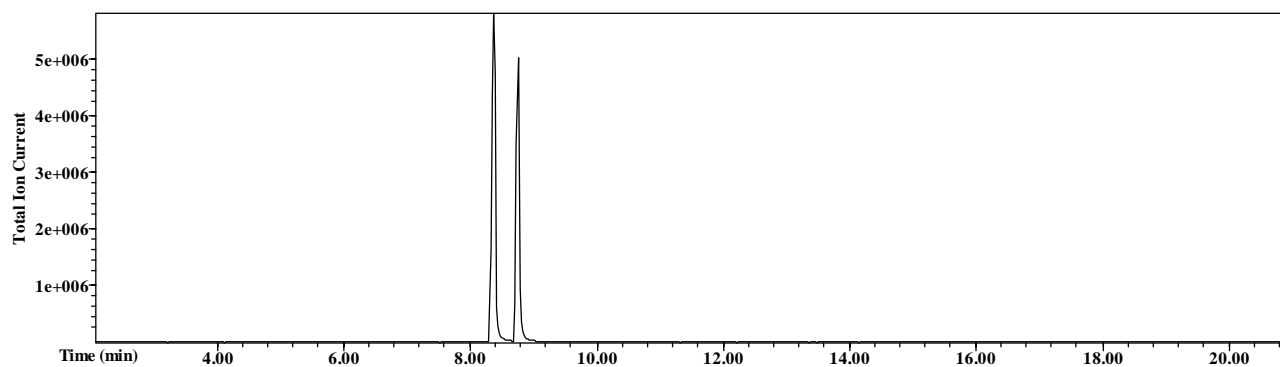
Single Product







Compound 13h



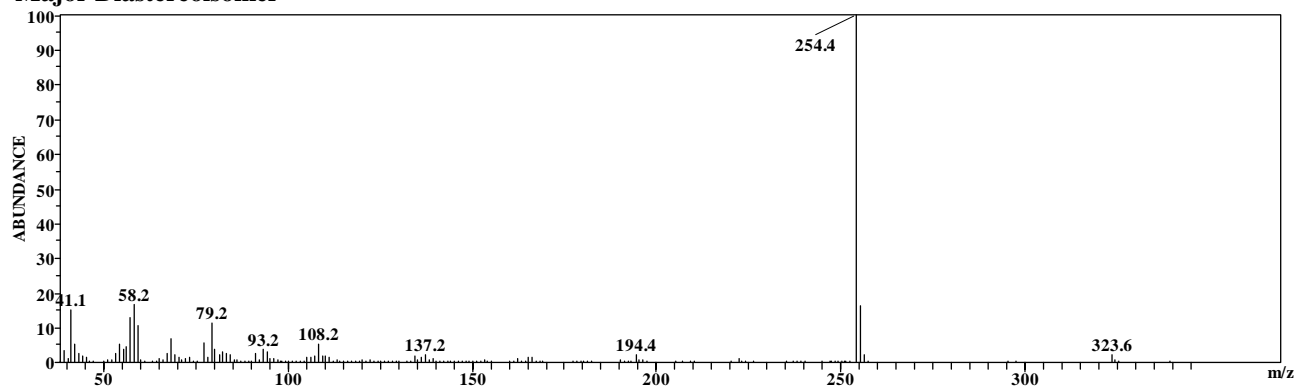
Acquired : 11 Jan 108 8:45 am using AcqMethod ANDHIGH

Retention Time	Area	Area %	Ratio %
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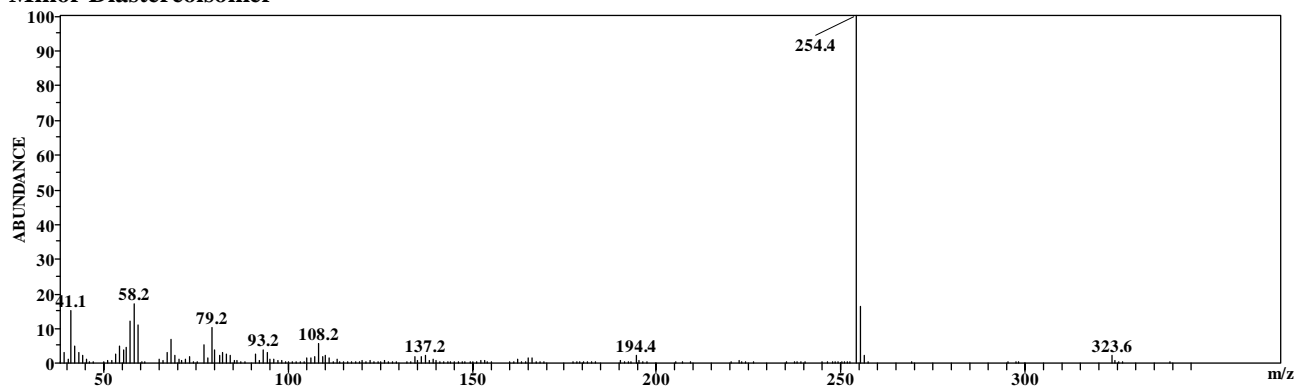
Total Ion Chromatogram

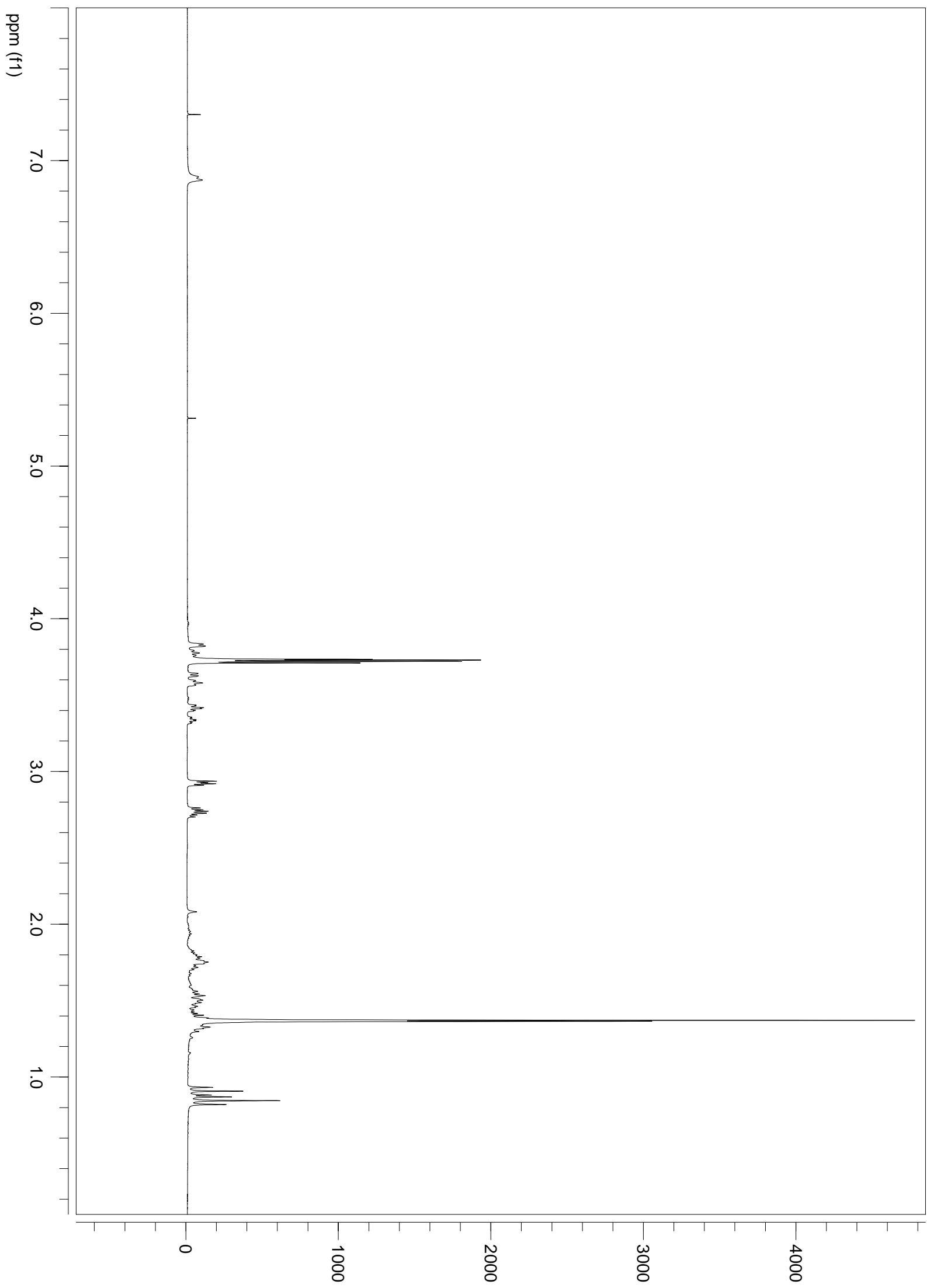
8.382	229258823	59.751	100.000
8.764	154432064	40.249	67.361

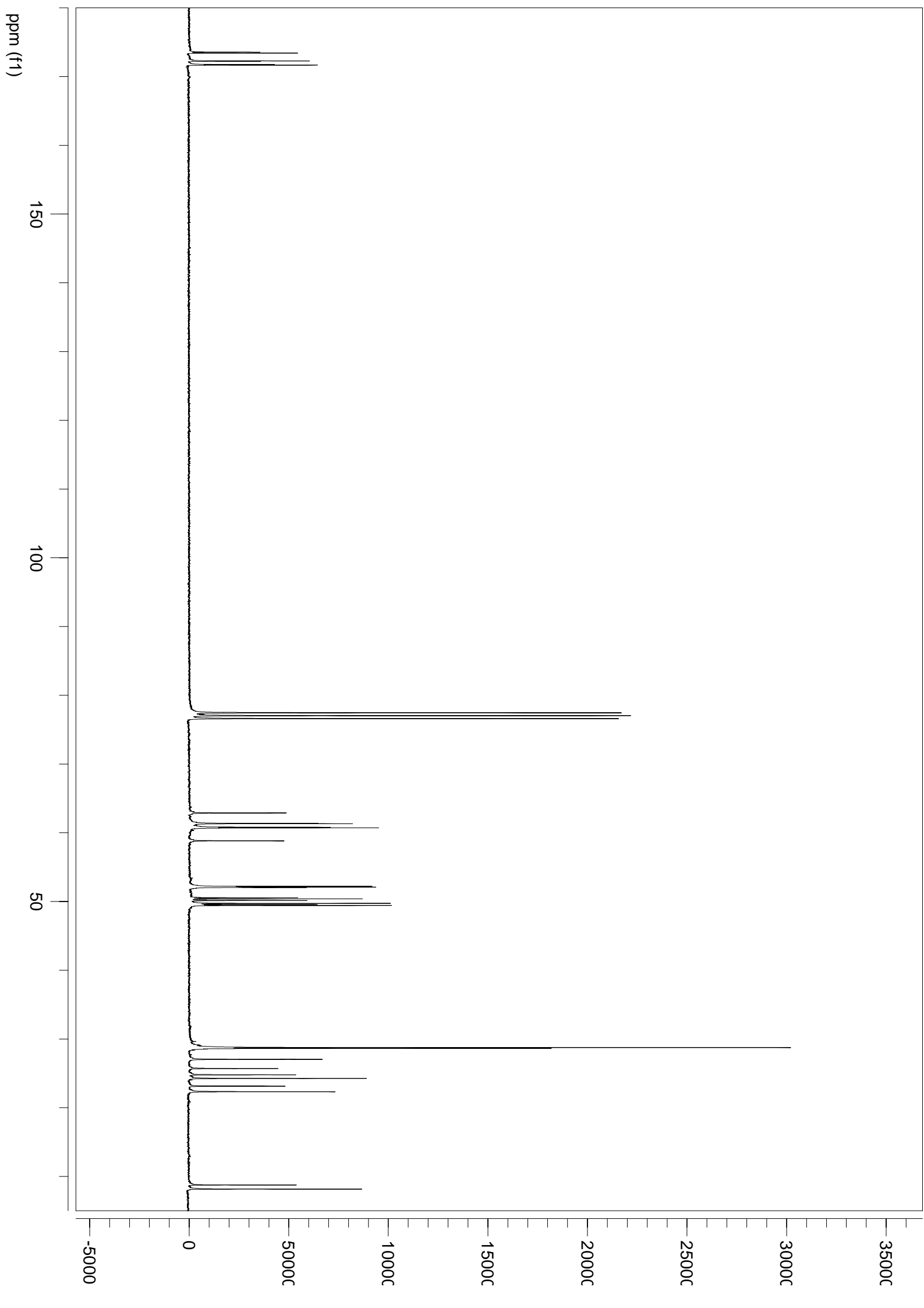
Major Diastereoisomer



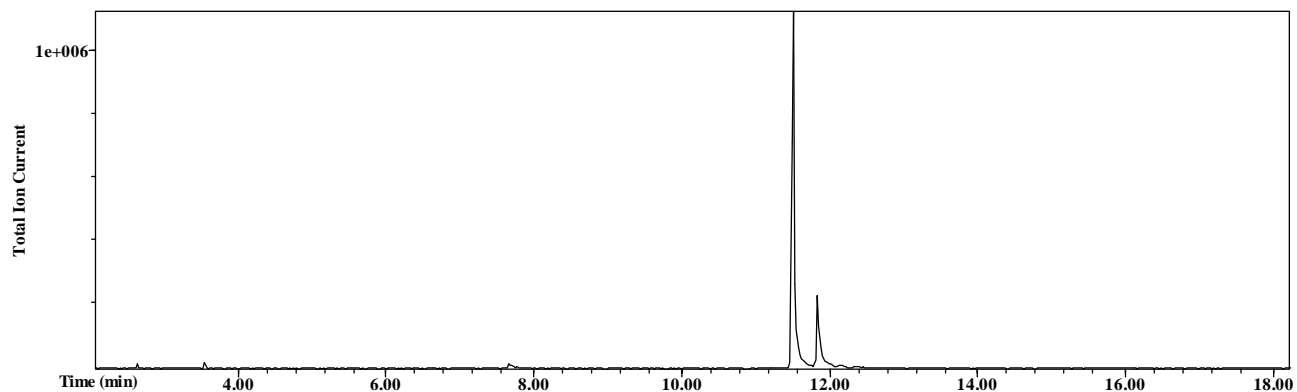
Minor Diastereoisomer







Compound 13i



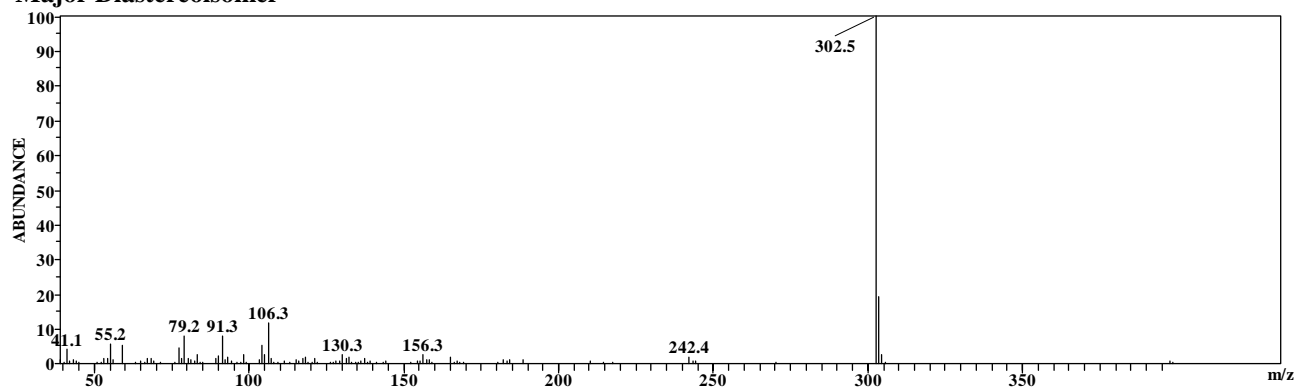
Acquired : 14 Jan 108 4:44 pm using AcqMethod ANDHIGH

Retention Time	Area	Area %	Ratio %
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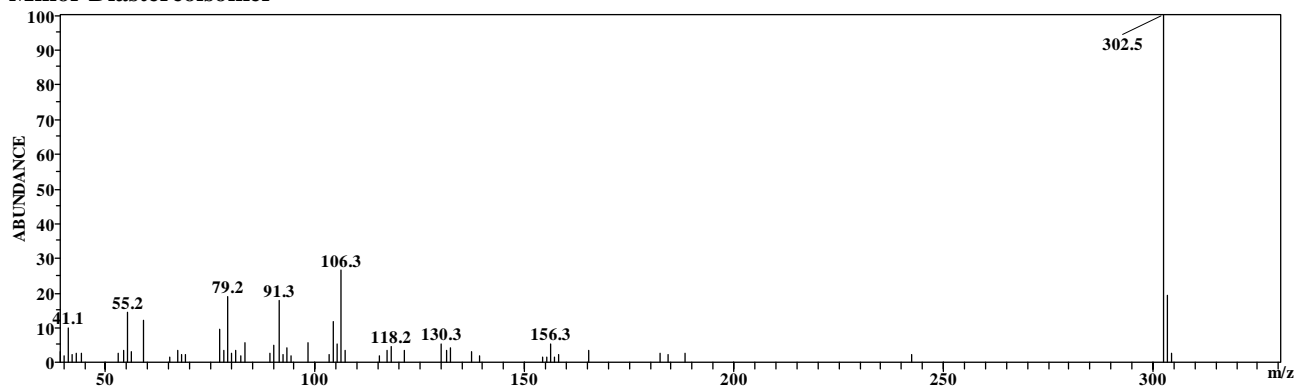
Total Ion Chromatogram

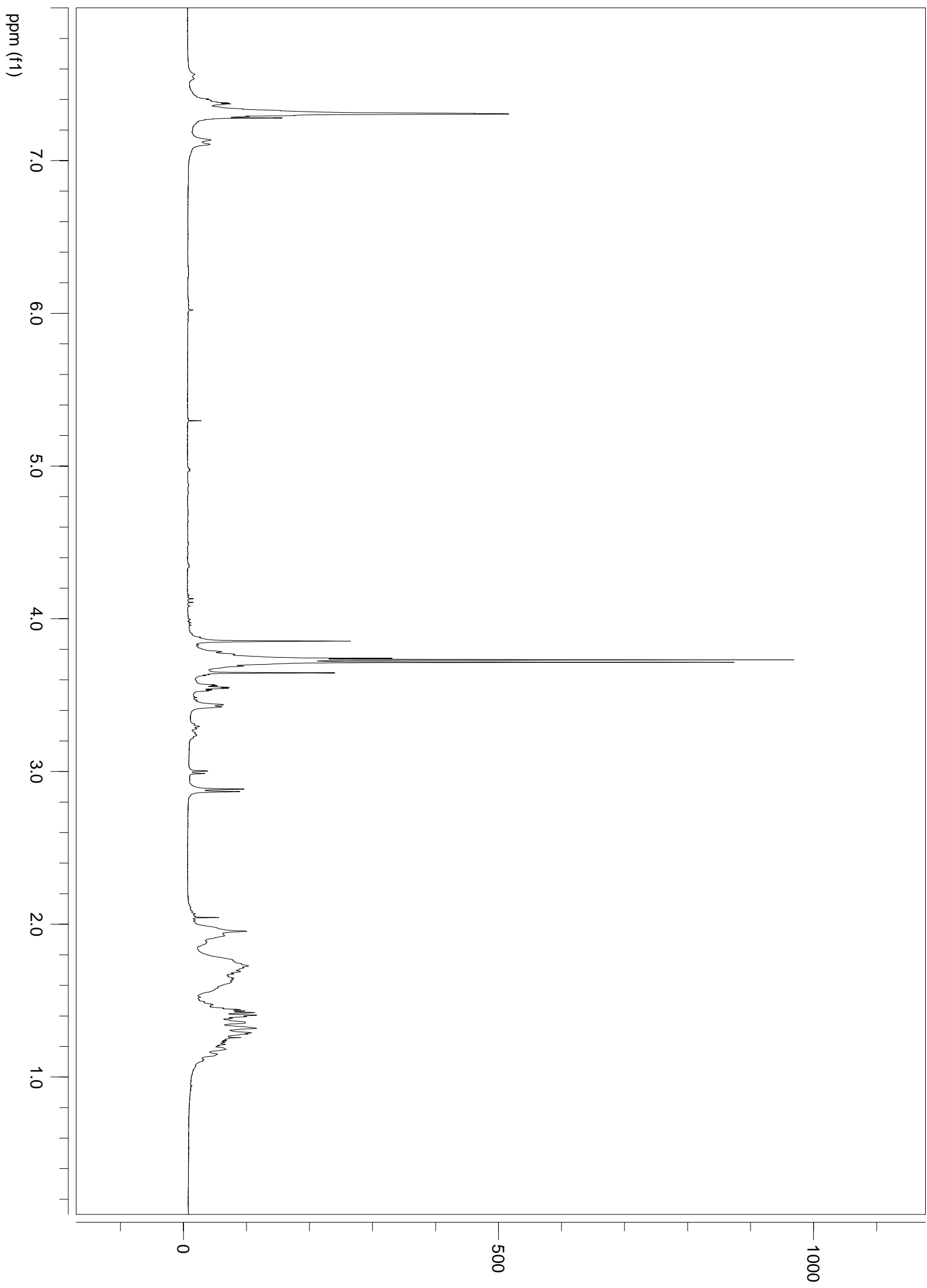
11.525	33574387	81.136	100.000
11.858	7806167	18.864	23.250

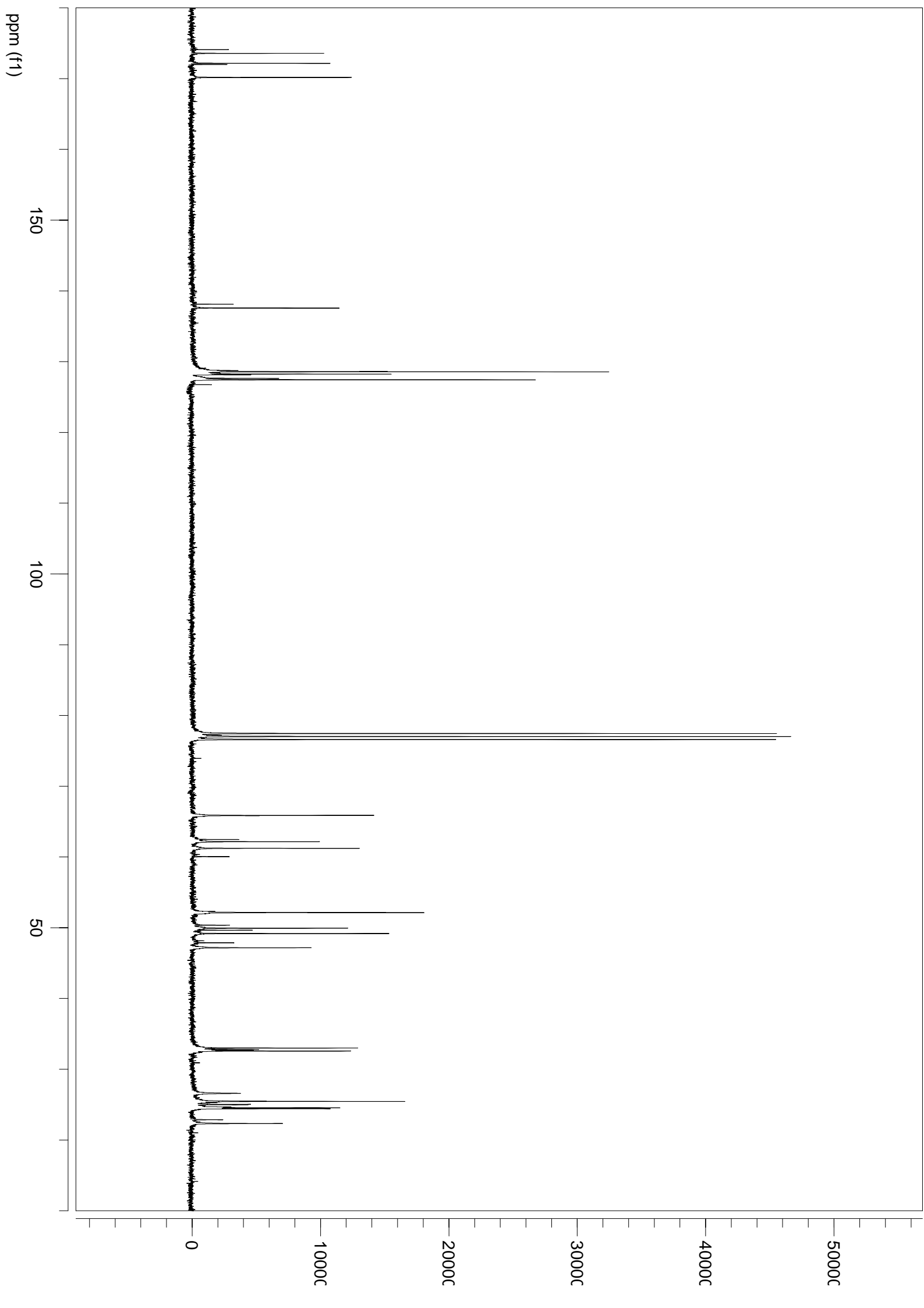
Major Diastereoisomer



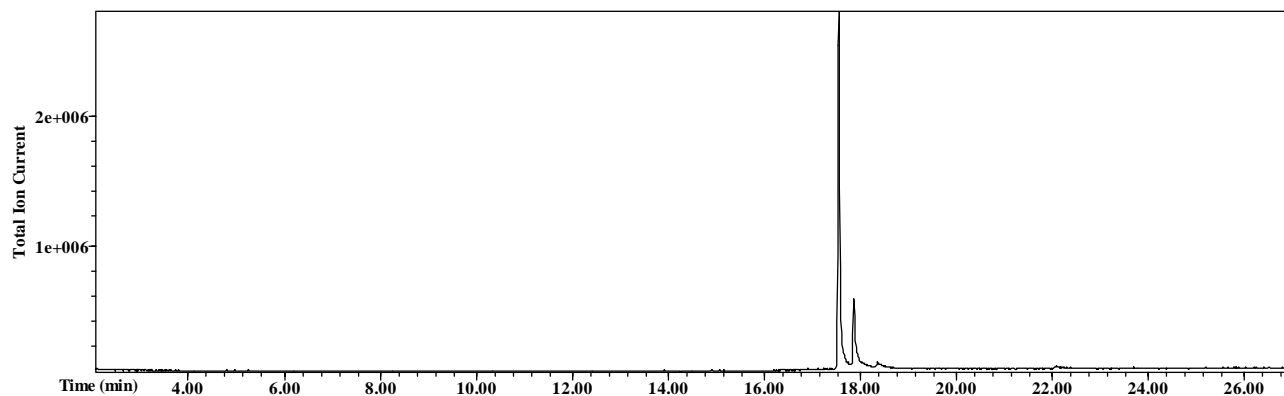
Minor Diastereoisomer







Compound 13j



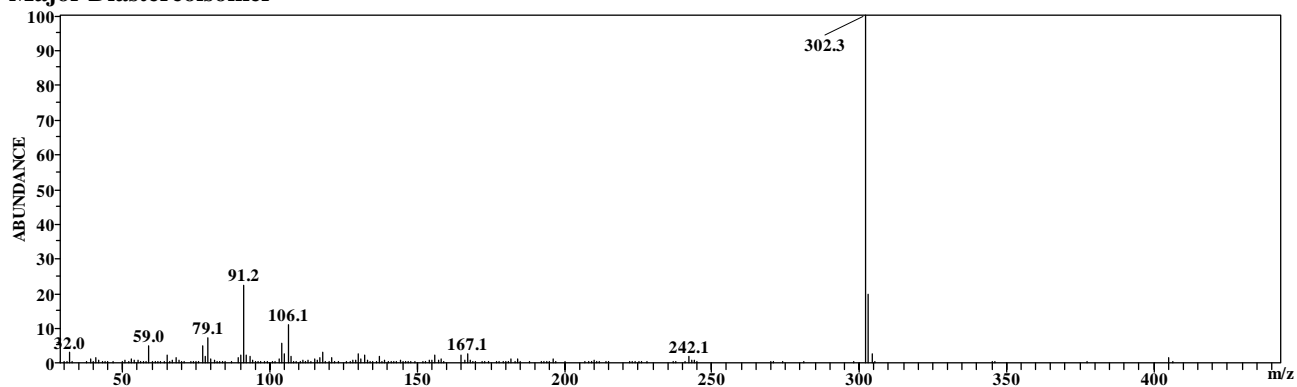
Acquired : 18 Jan 108 8:16 am using AcqMethod PAOLA

Retention Time	Area	Area %	Ratio %
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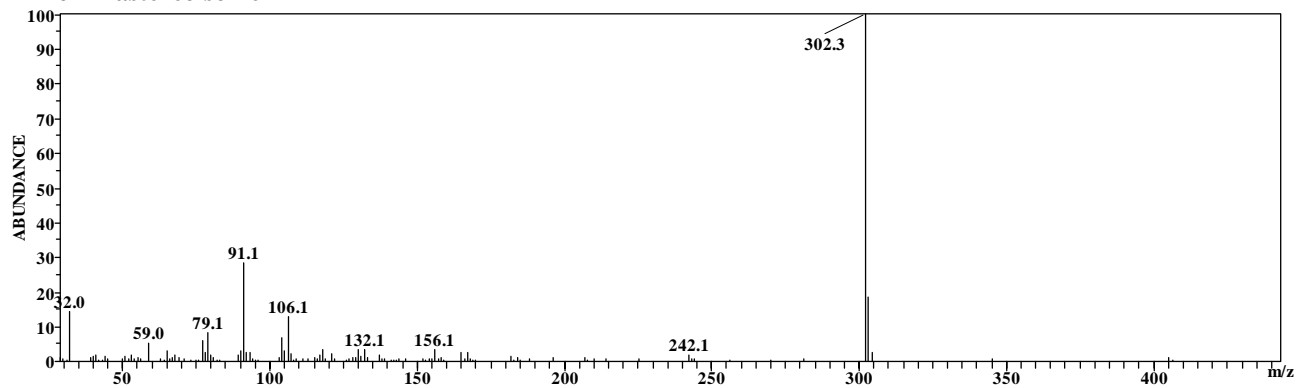
Total Ion Chromatogram

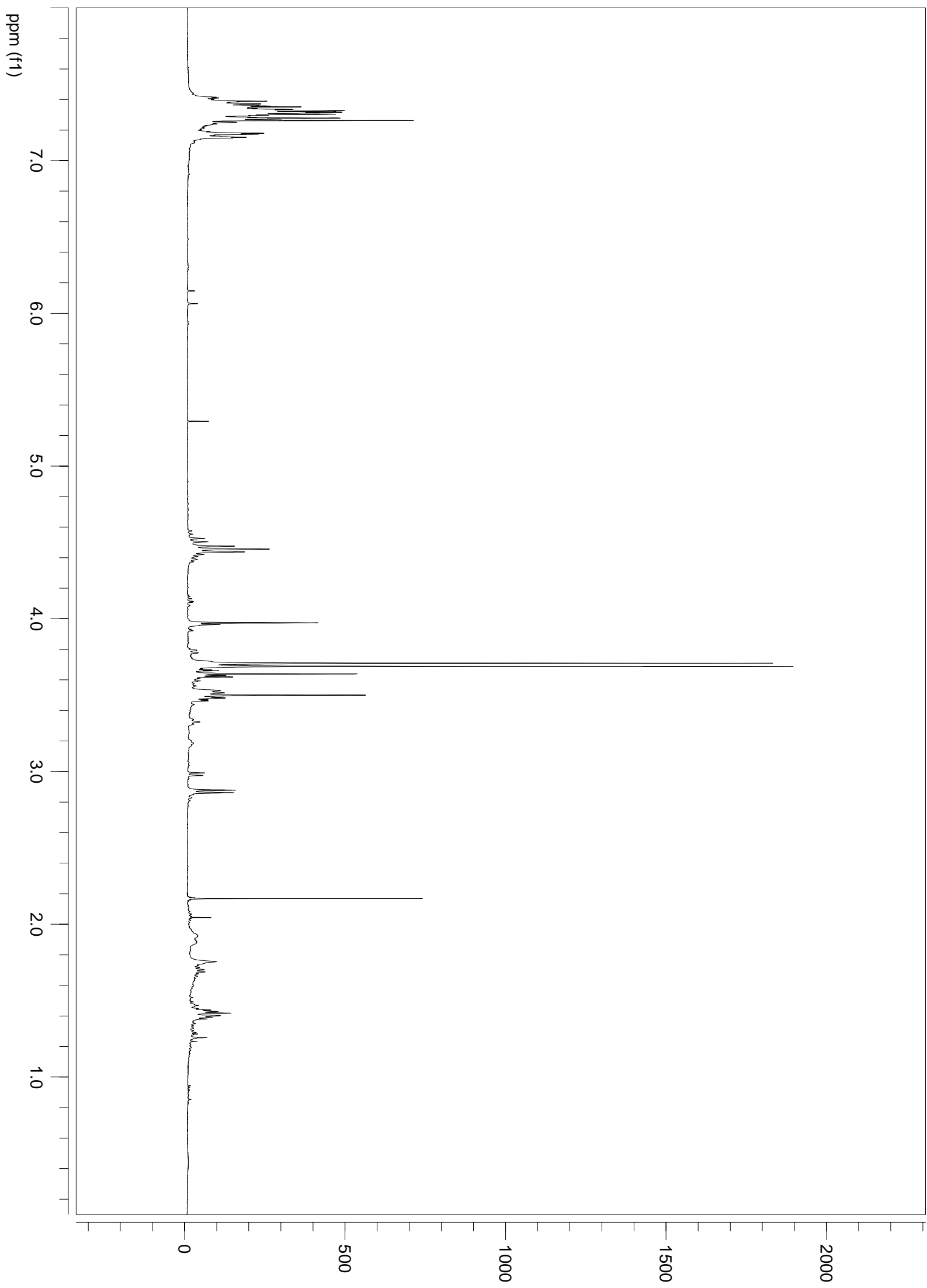
17.554	81526409	79.953	100.000
17.869	20441773	20.047	25.074

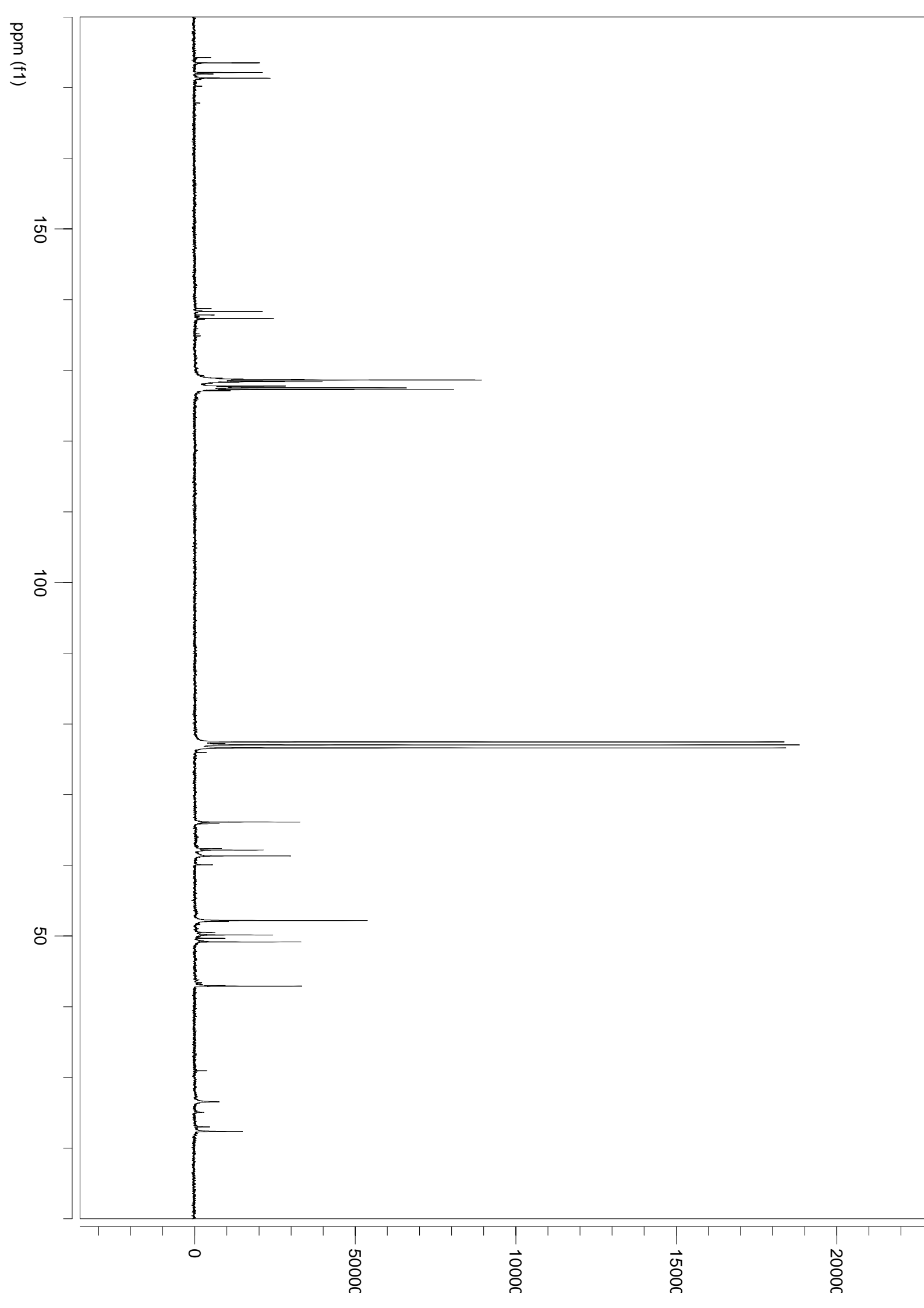
Major Diastereoisomer



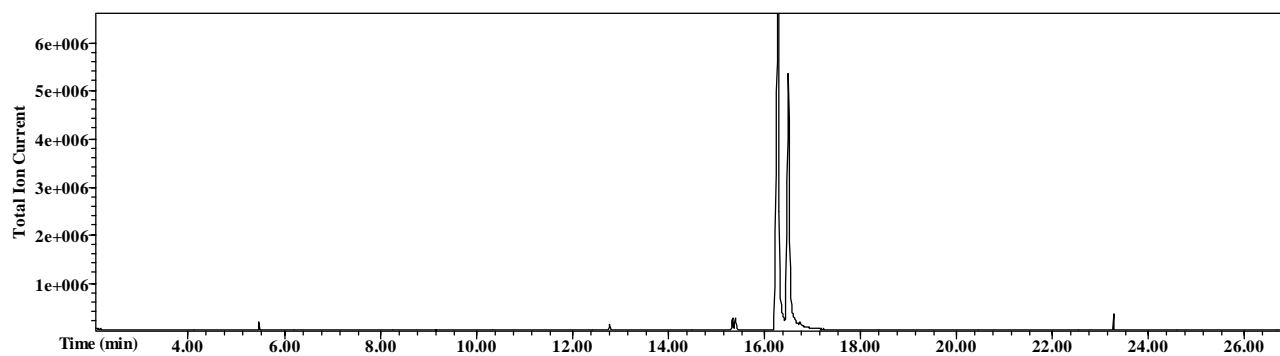
Minor Diastereoisomer







Compound 13k



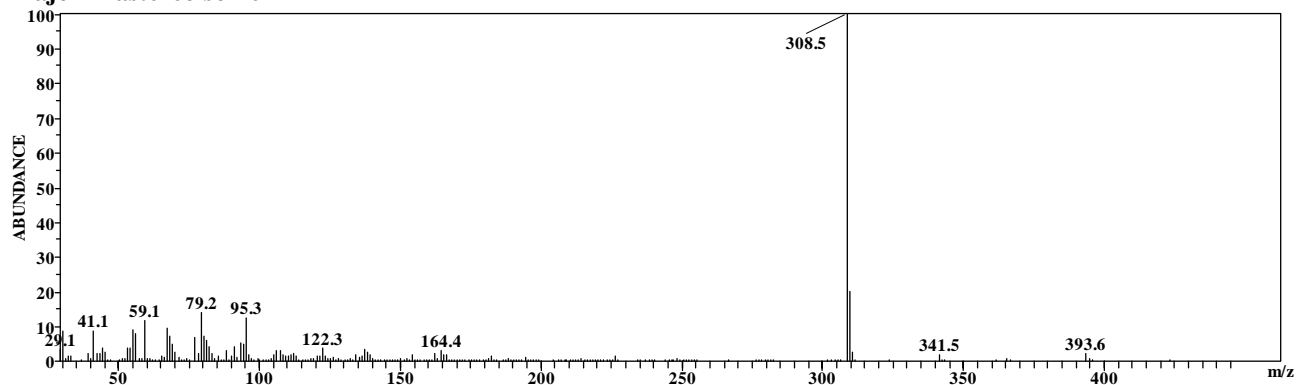
Acquired : 24 Jan 108 2:50 pm using AcqMethod PAOLA

Retention Time	Area	Area %	Ratio %
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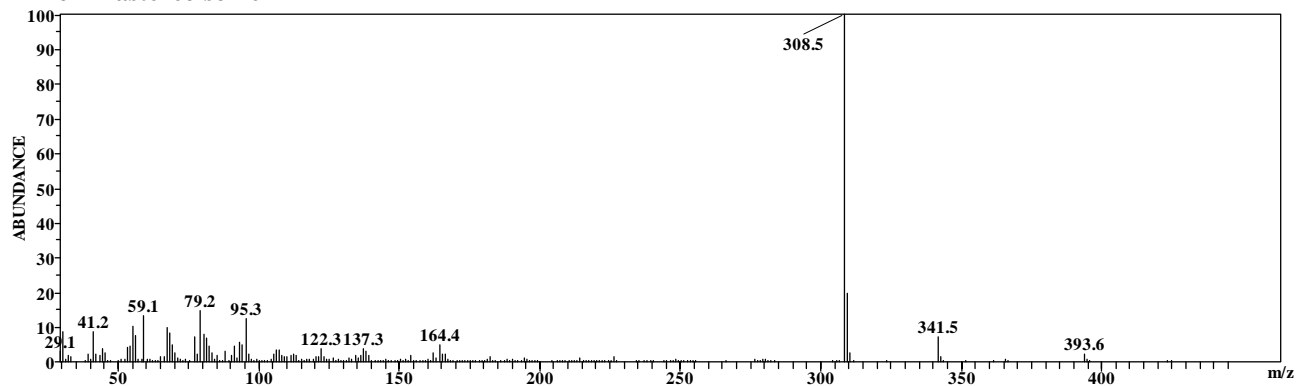
Total Ion Chromatogram

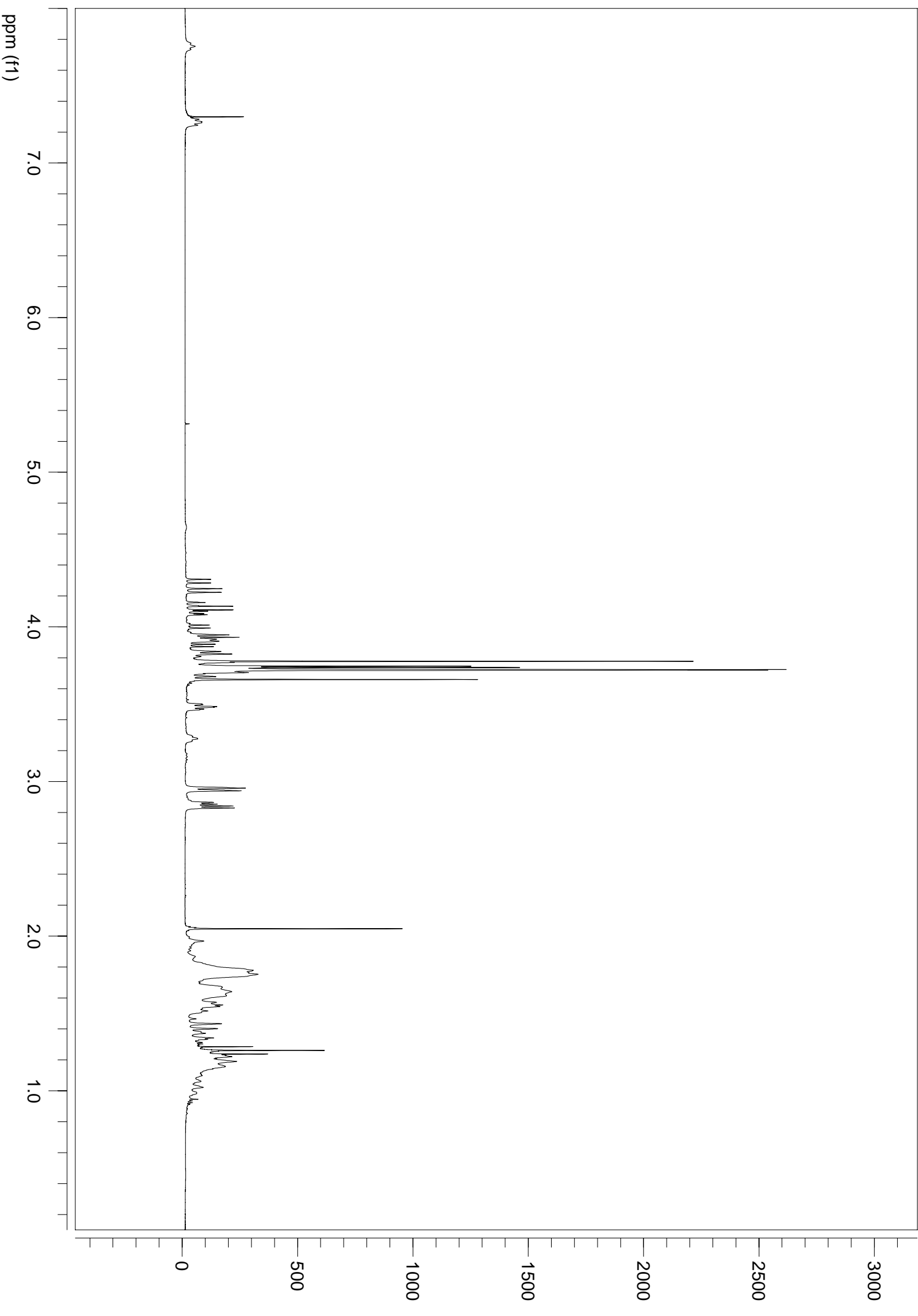
5.473	1126842	0.223	0.379
15.339	4317620	0.855	1.451
15.404	5237914	1.037	1.761
16.299	297491108	58.907	100.000
16.518	194617758	38.537	65.420
23.301	2223774	0.440	0.748

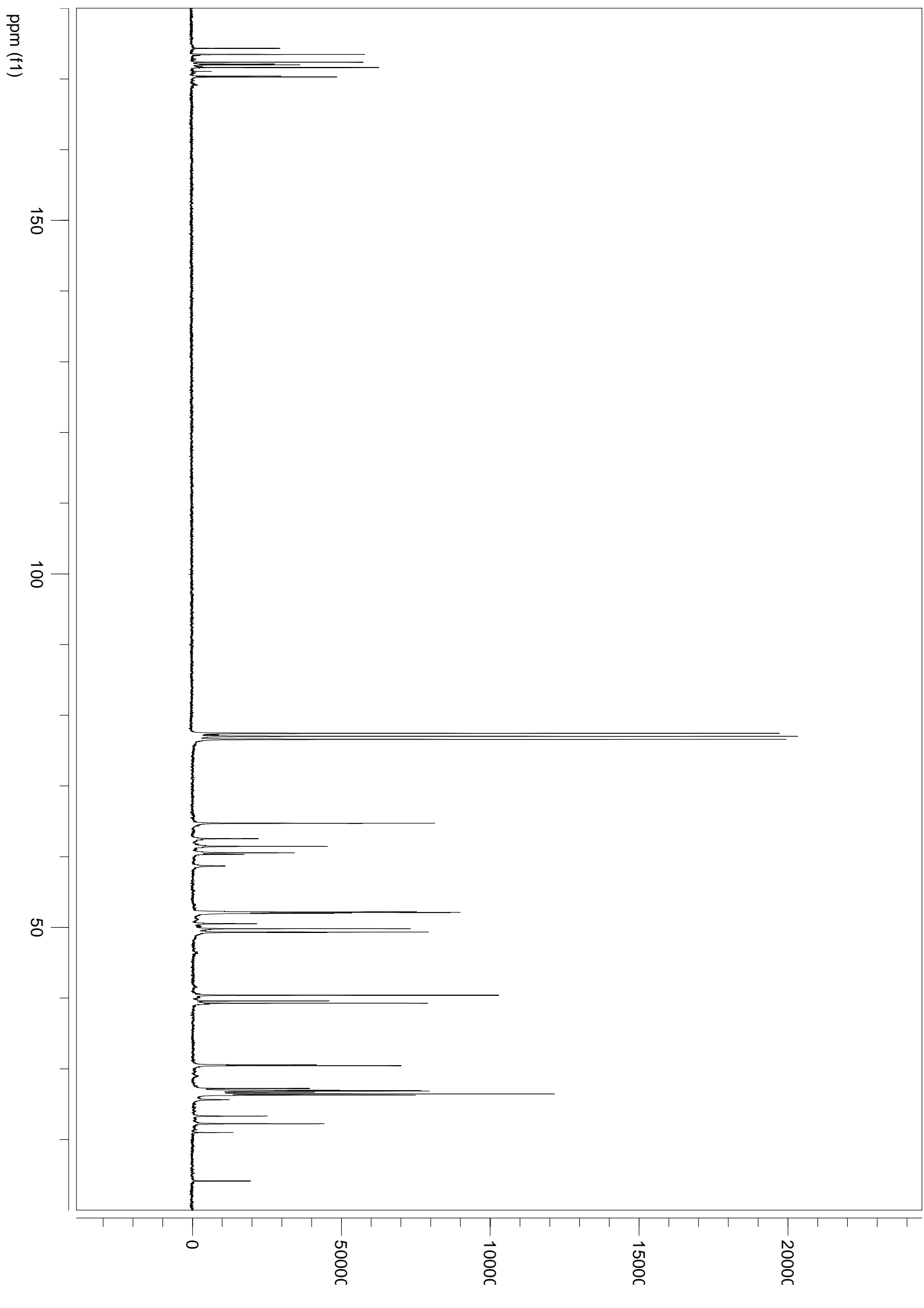
Major Diastereoisomer



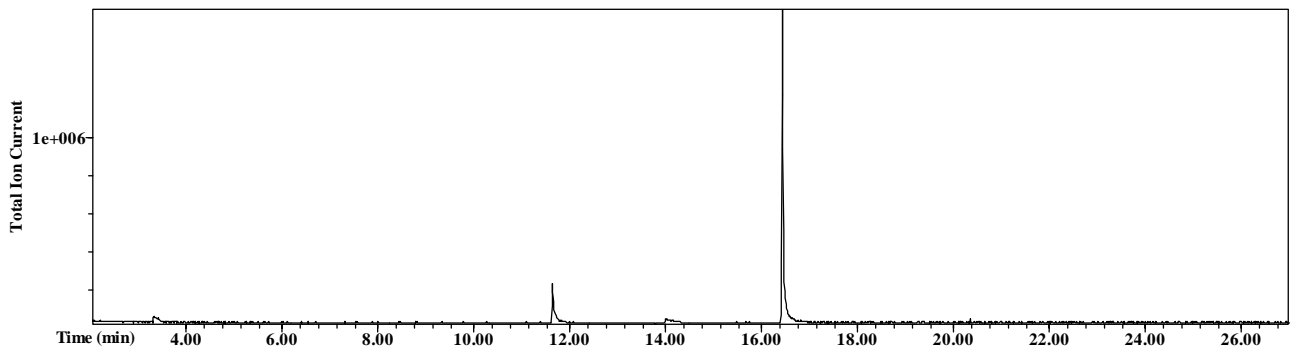
Minor Diastereoisomer







Compound 13l



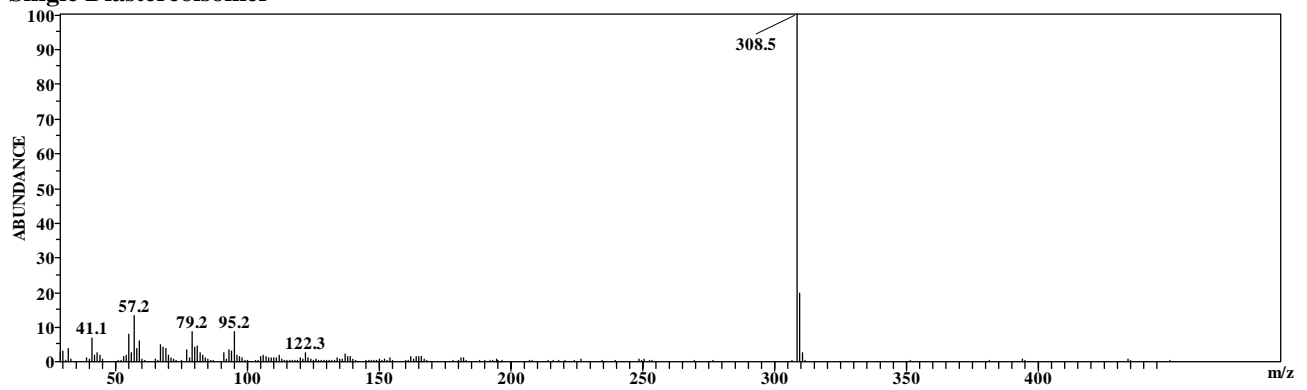
Acquired : 25 Jan 108 3:05 pm using AcqMethod PAOLA

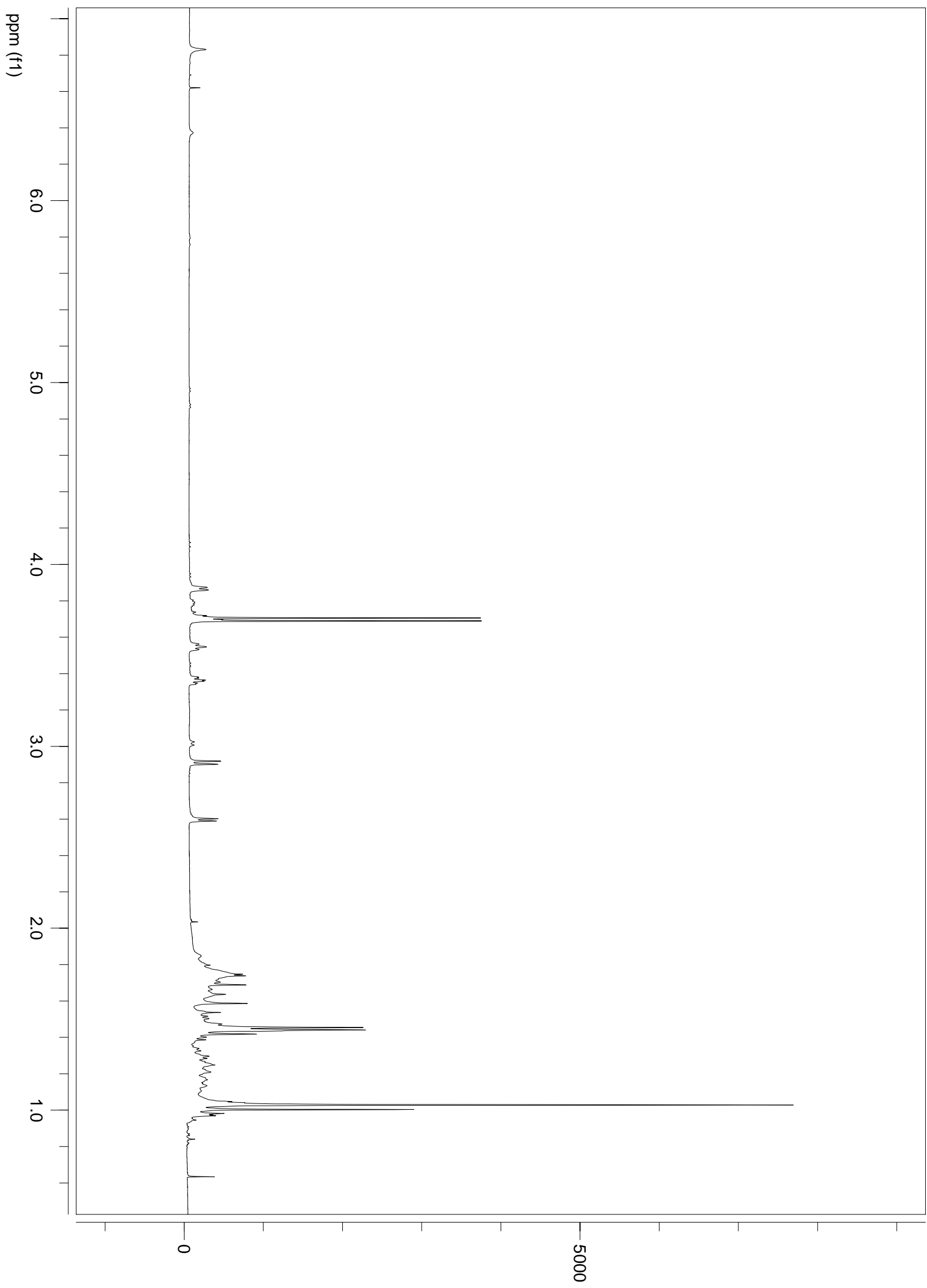
Retention Time	Area	Area %	Ratio %
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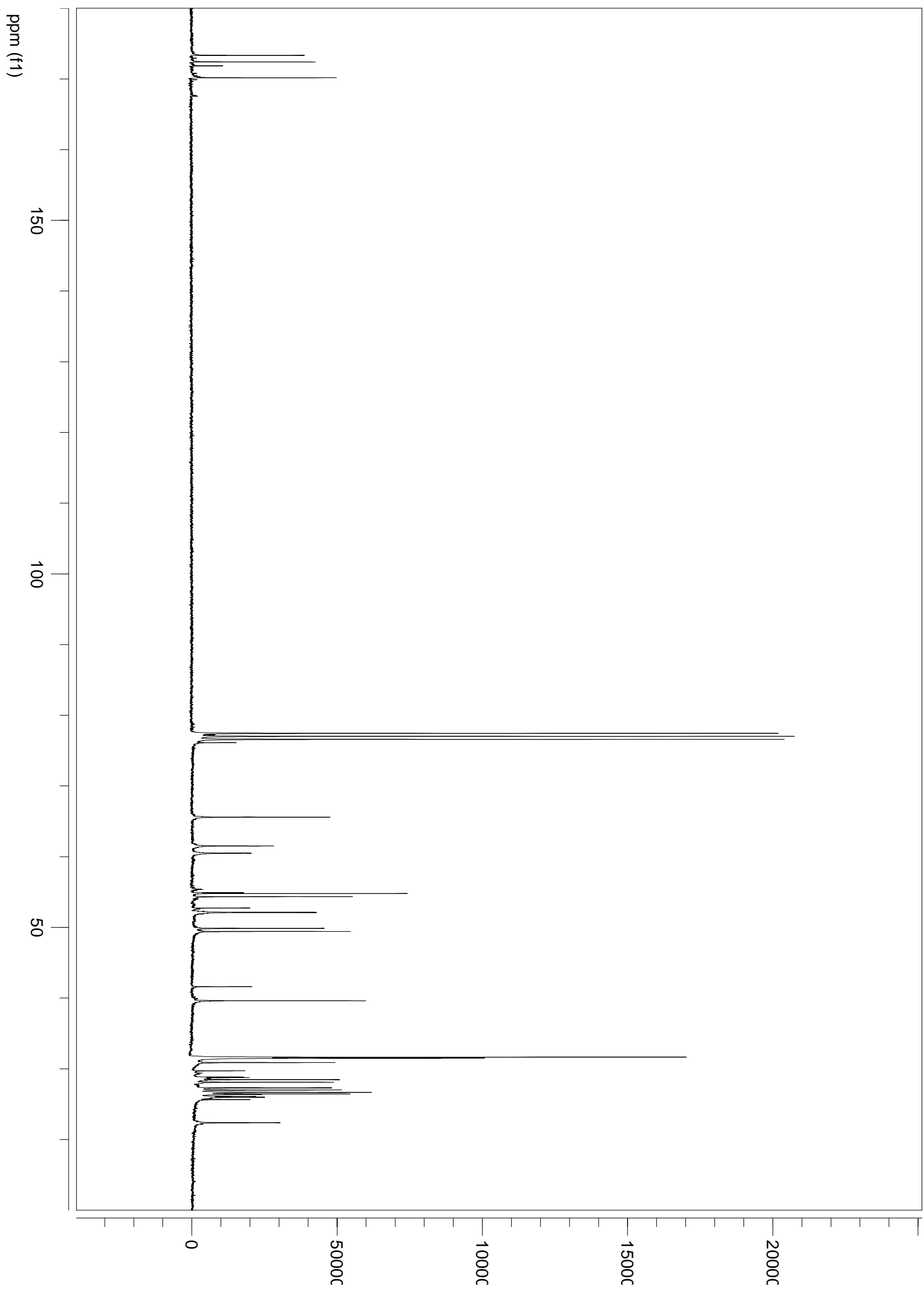
Total Ion Chromatogram

11.659	5536395	12.882	14.787
16.448	37440069	87.118	100.000

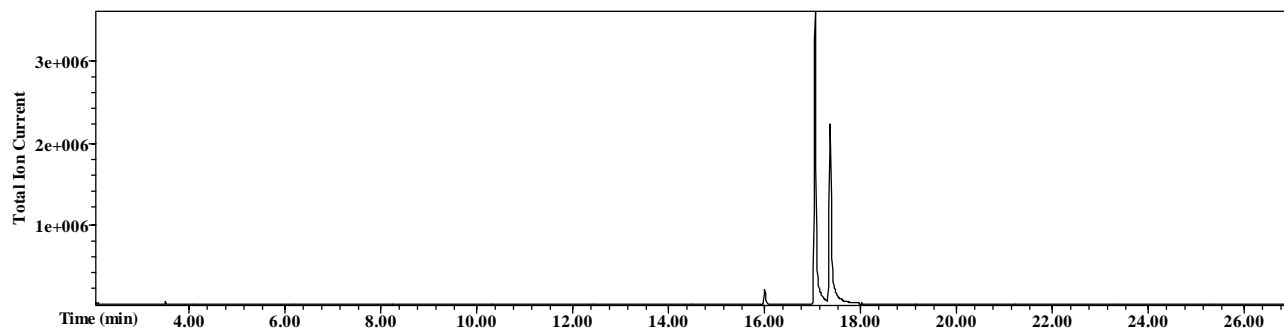
Single Diastereoisomer







Compound 13m



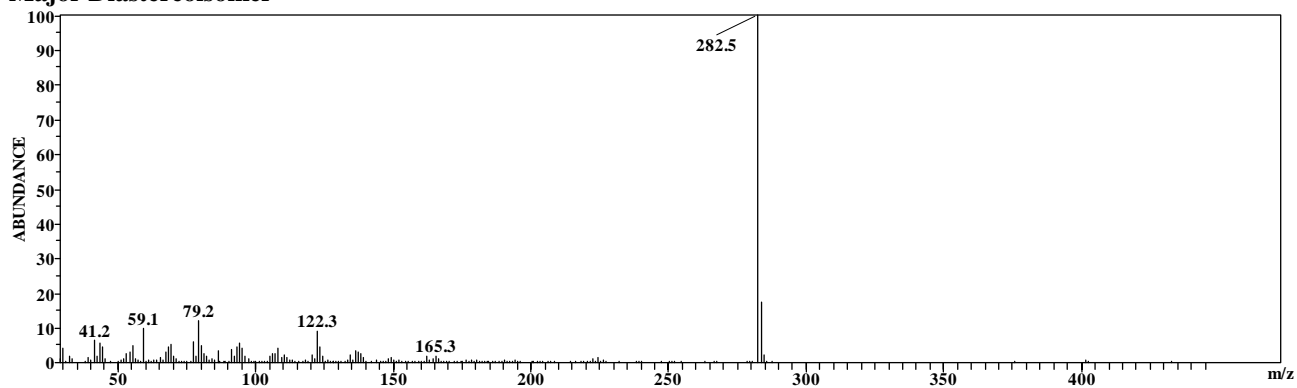
Acquired : 25 Jan 108 5:05 pm using AcqMethod PAOLA

Retention Time	Area	Area %	Ratio %
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Total Ion Chromatogram

16.016	4428727	2.407	4.267
17.070	103794386	56.401	100.000
17.384	75805182	41.192	73.034

Major Diastereoisomer



Minor Diastereoisomer

