

MASS SPECTRUM STUDY

RECEIVED STANDARD FROM EPA AND RAN ON GC/MS

**REVIEWED MASS SPECTRUMS OF BOTH THE 1ST & 2ND PEAKS IN
ORDER TO ATTEMPT TO USE THE MASS SPECTRUMS TO
DETERMINE POSSIBLE DIOXATHION FRAGMENTS**

**1ST PEAK (large) CONSTANTLY HAS PARENT ION OF 270
2ND PEAK (smaller) CONSTANTLY HAS PARENT ION OF 271**

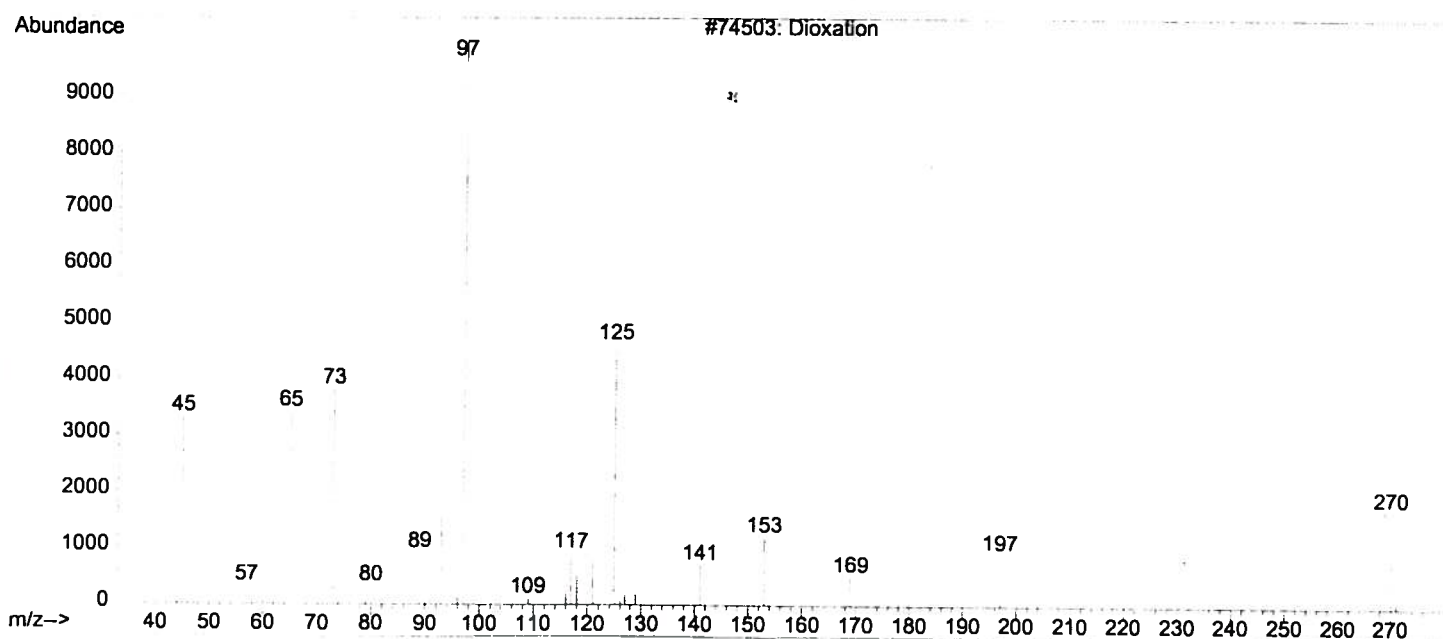
From NBS Library

Dioxation

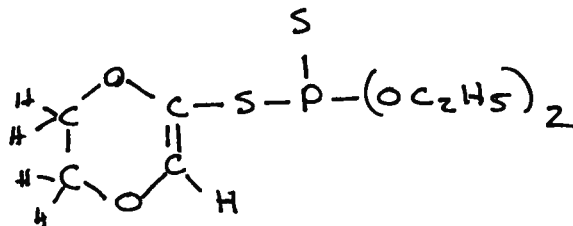
Entry Number 74503 from C:\DATABASE\NBS75K.L
CAS 000078-34-2
Melting Point -300
Boiling Point -300
Retention Index 0
Mol Formula C₁₂H₂₆O₆P₂S₄
Mol Weight 456.008
Company ID NIST 1992

Miscellaneous Information

QI=58 Steroids; Drugs; Derivatives; Amino Acids; Misc. Natural products; Fatty acids and Lipids;



Close match for peak #1



No structure available for 000078-34-2

MW 270

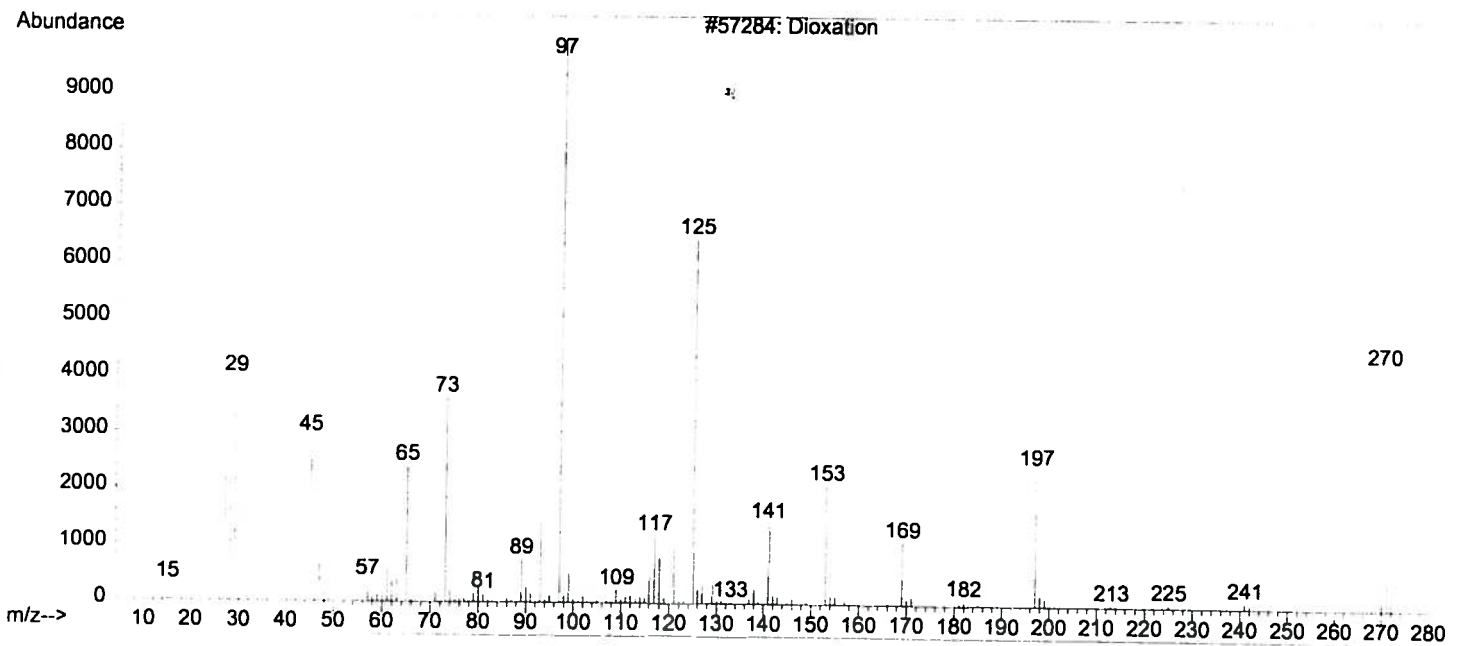
From NBS Library

Dioxation

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Retention Index 0
Mol Formula C12H26O6P2S4
Mol Weight 456.008
Company ID NIST 1992

Miscellaneous Information

QI=78 Steroids; Drugs; Derivatives; Amino Acids; Misc. Natural products; Fatty acids and Lipids;



No structure available for 000078-34-2

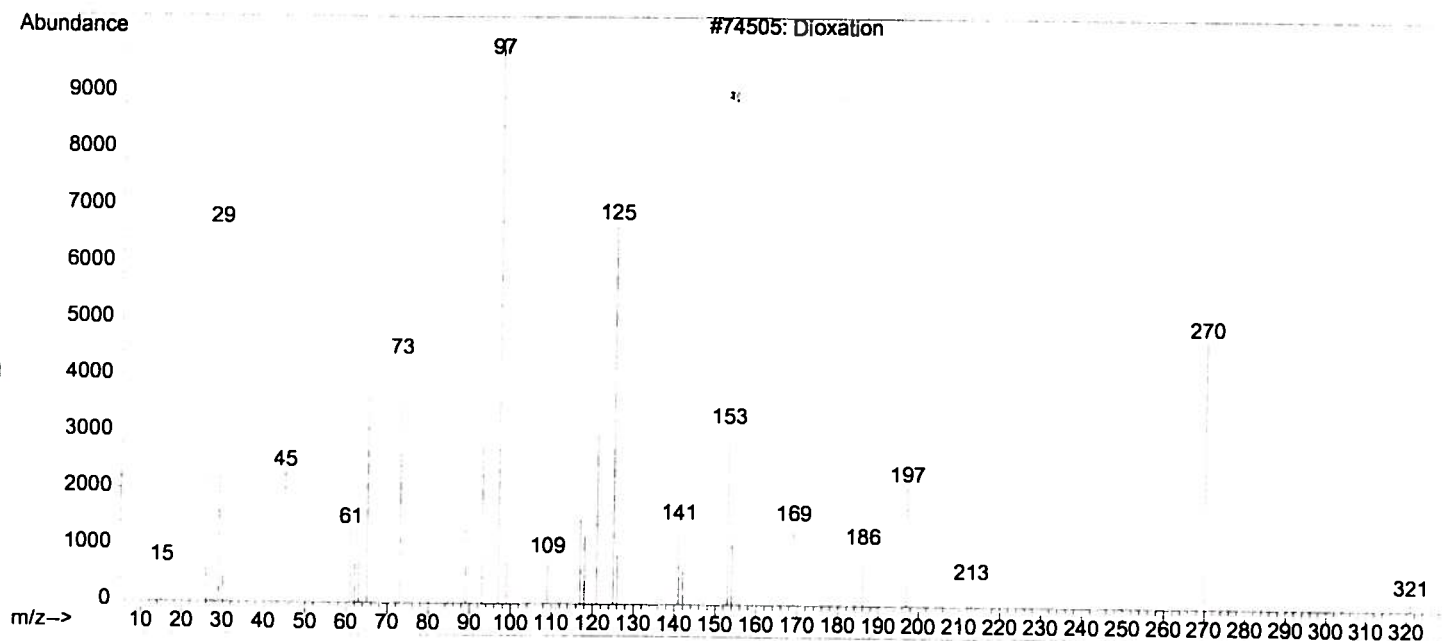
From NBS Library

Dioxation

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Retention Index 0
Mol Formula C₁₂H₂₆O₆P₂S₄
Mol Weight 456.008
Company ID NIST 1992

Miscellaneous Information

QI=56 Steroids; Drugs; Derivatives; Amino Acids; Misc. Natural products; Fatty acids and Lipids;



When we did a background subtract on early scans of PEAK#1 the 186 fragment was not present. 186 is not present in the "meat" of the peak #1

No structure available for 000078-34-2

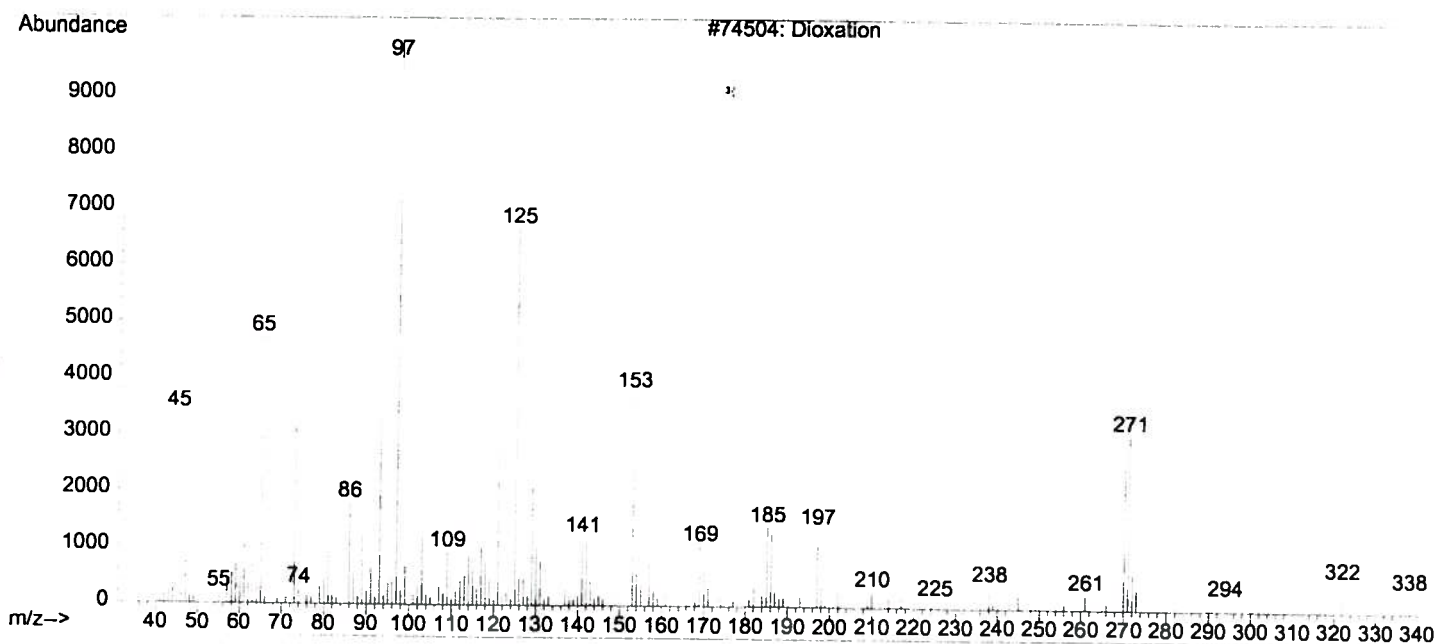
From NBS Library

Dioxation

Entry Number	74504	from	C:\DATABASE\NBS75K.L
CAS	000078-34-2		
Melting Point	-300		
Boiling Point	-300		
Retention Index	0		
Mol Formula	C ₁₂ H ₂₆ O ₆ P ₂ S ₄		
Mol Weight	456.008		
Company ID	NIST 1992		

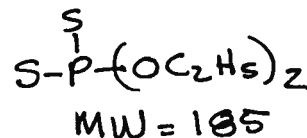
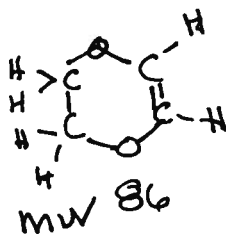
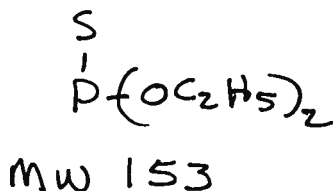
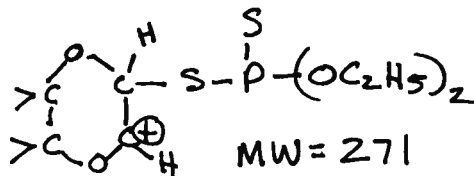
Miscellaneous Information

QI=75 Steroids; Drugs; Derivatives; Amino Acids; Misc. Natural products; Fatty acids and Lipids;

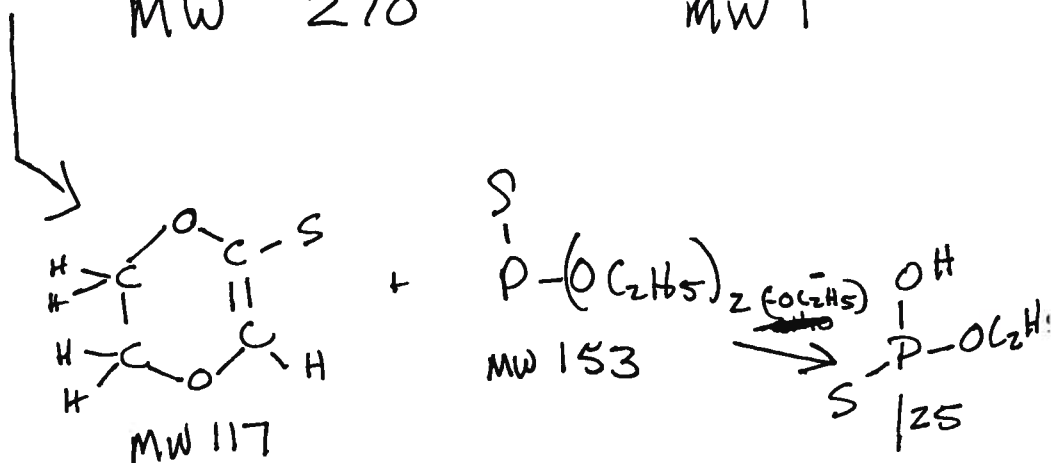
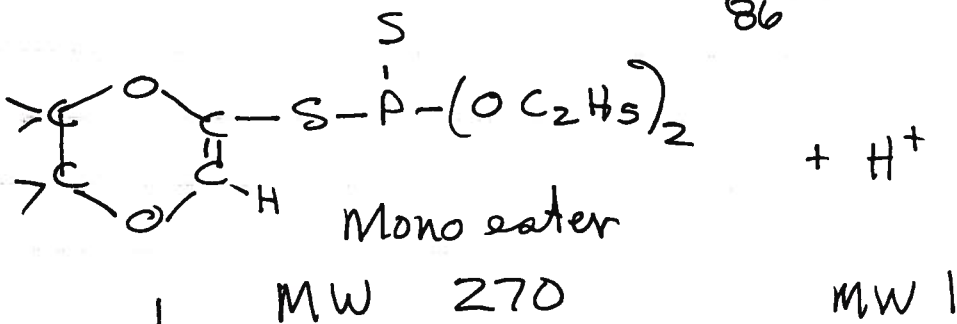
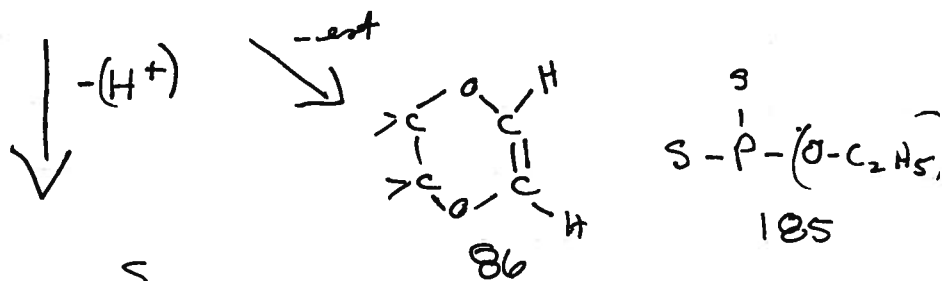
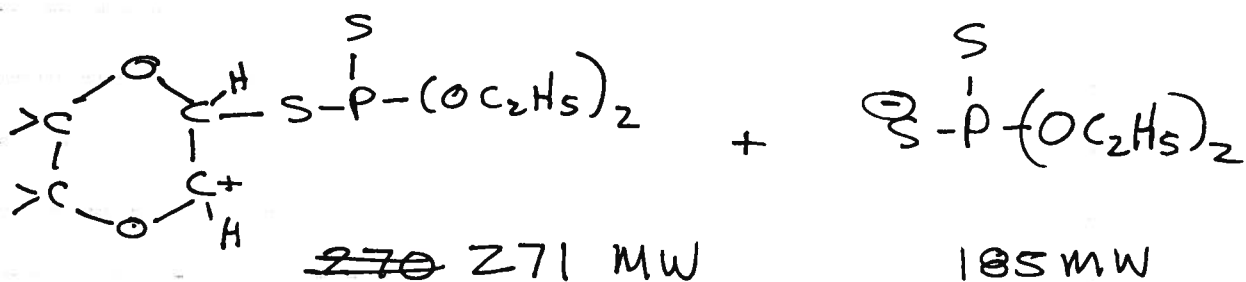
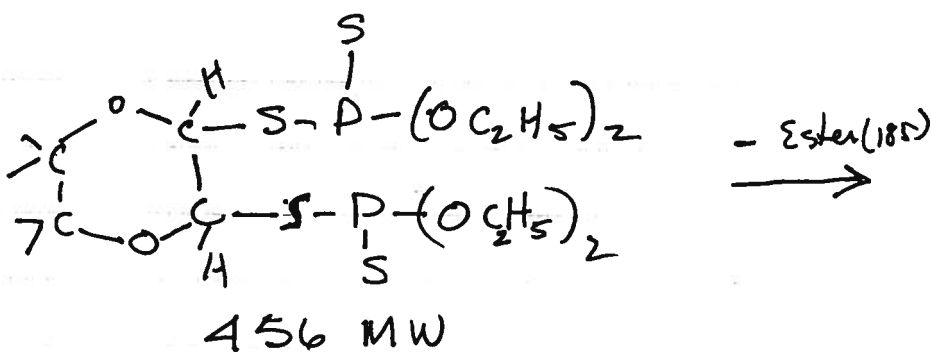


Note: This NBS is a close match for PEAK#2 NOTE 271 and 185 also 86

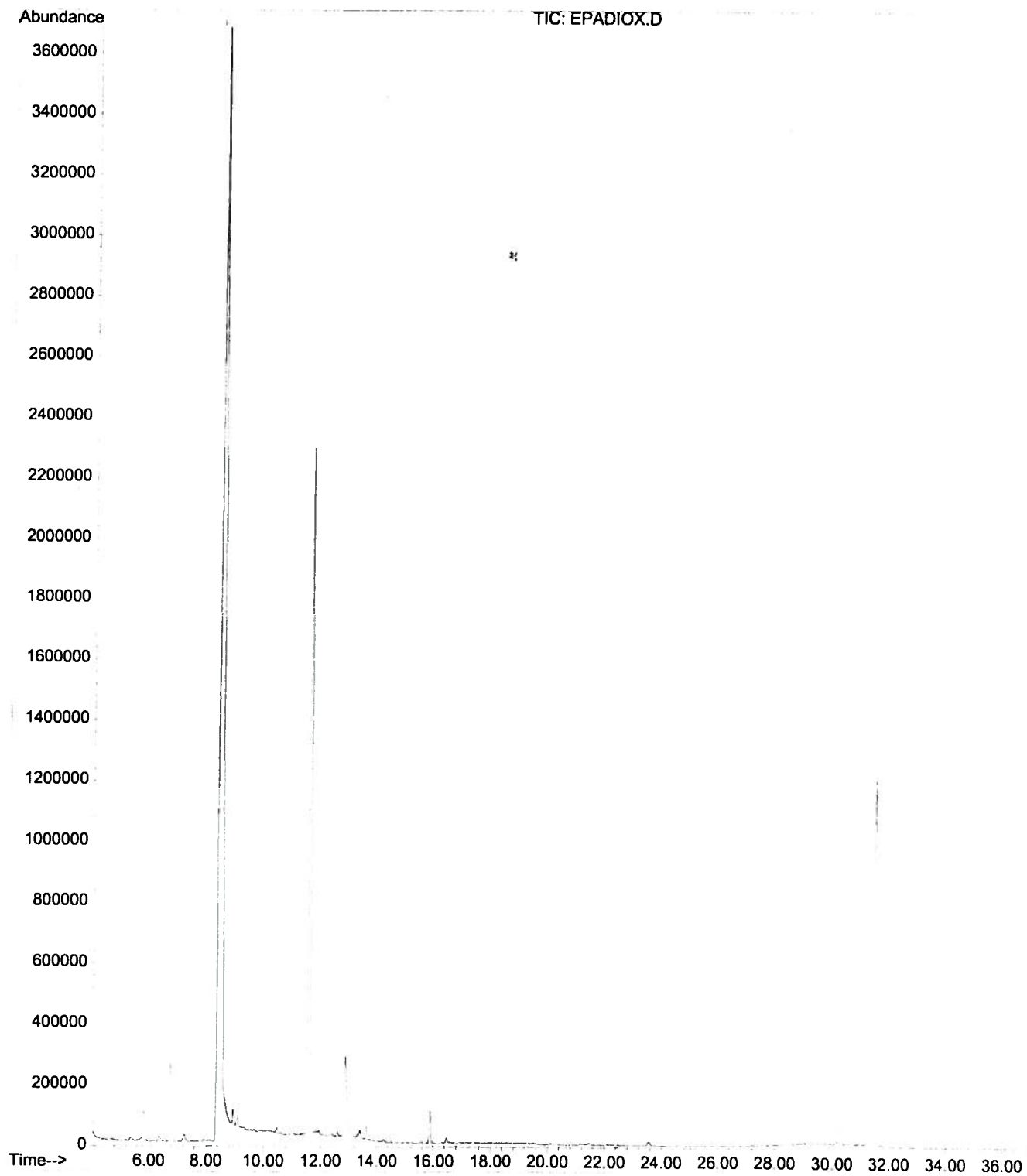
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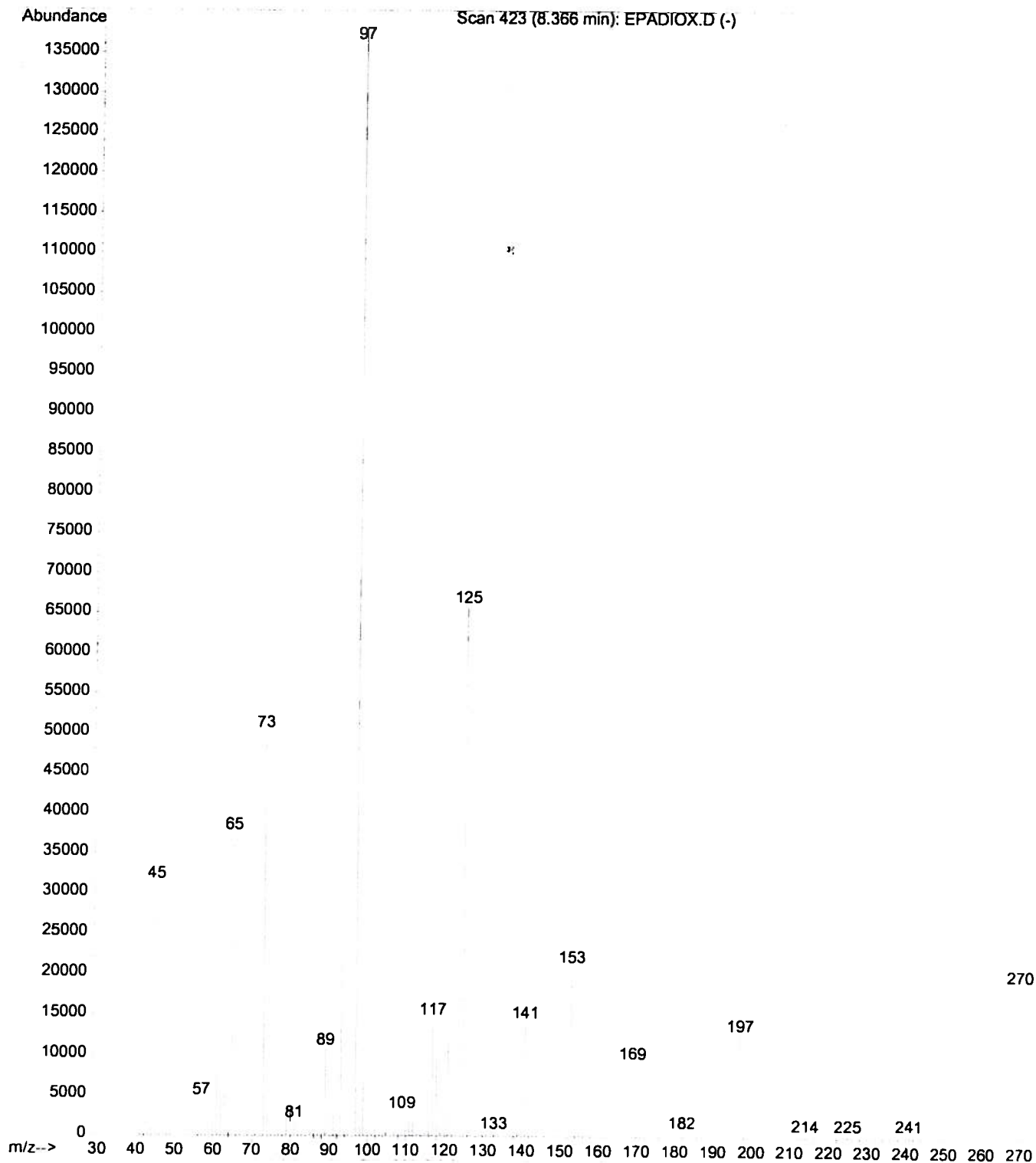
Some Possible fragments



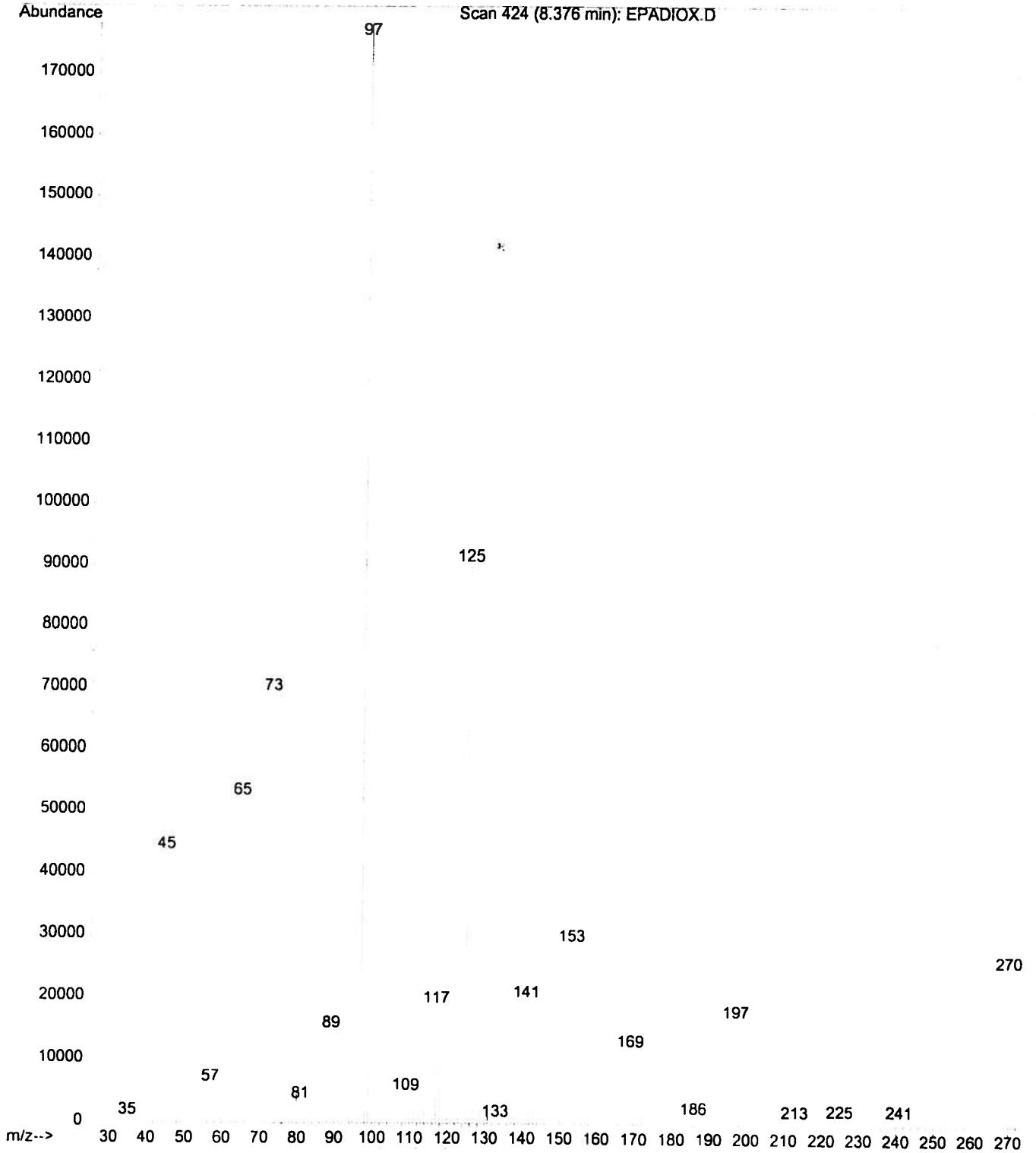
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Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



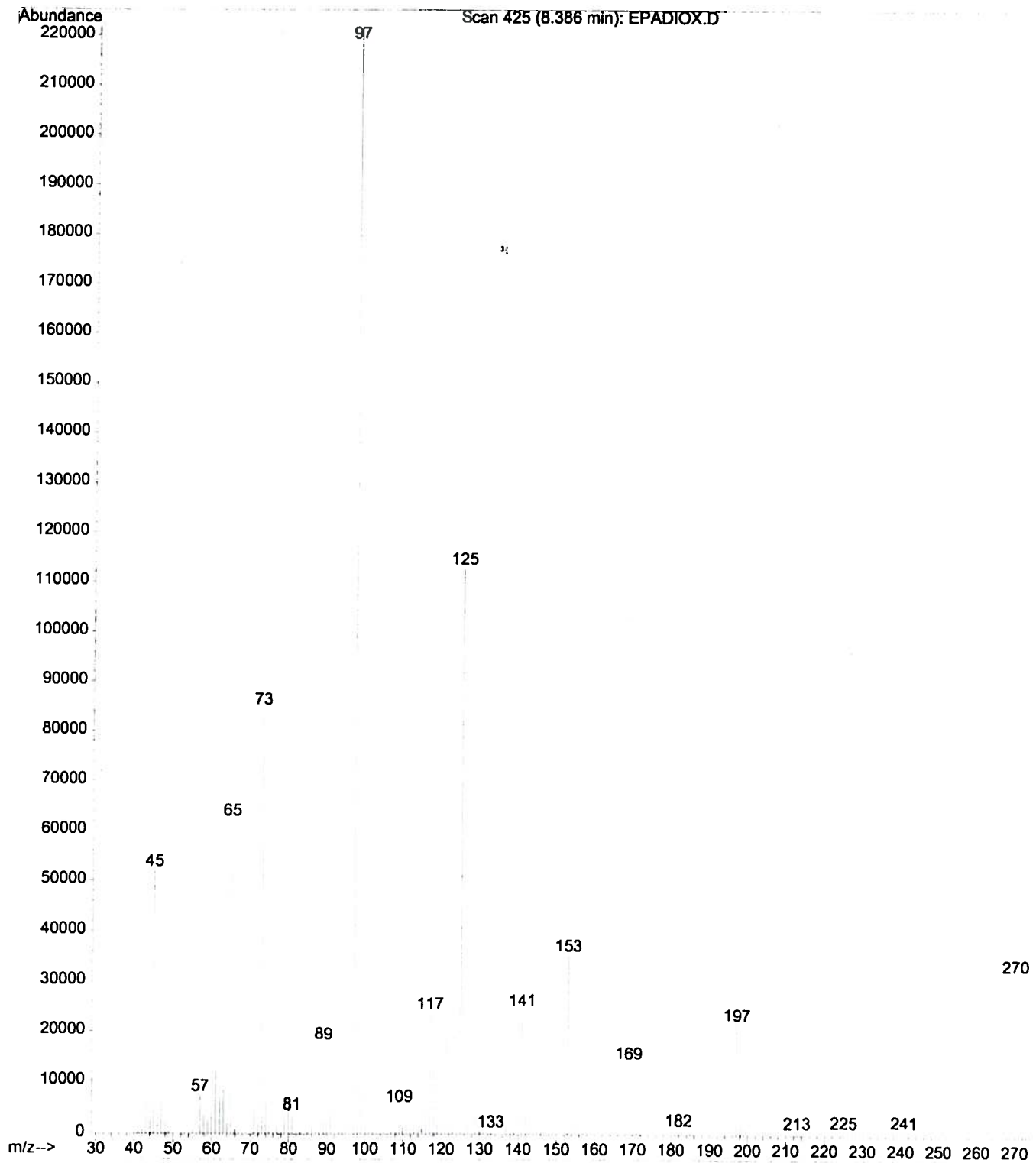
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Misc Info :
Vial Number: 25



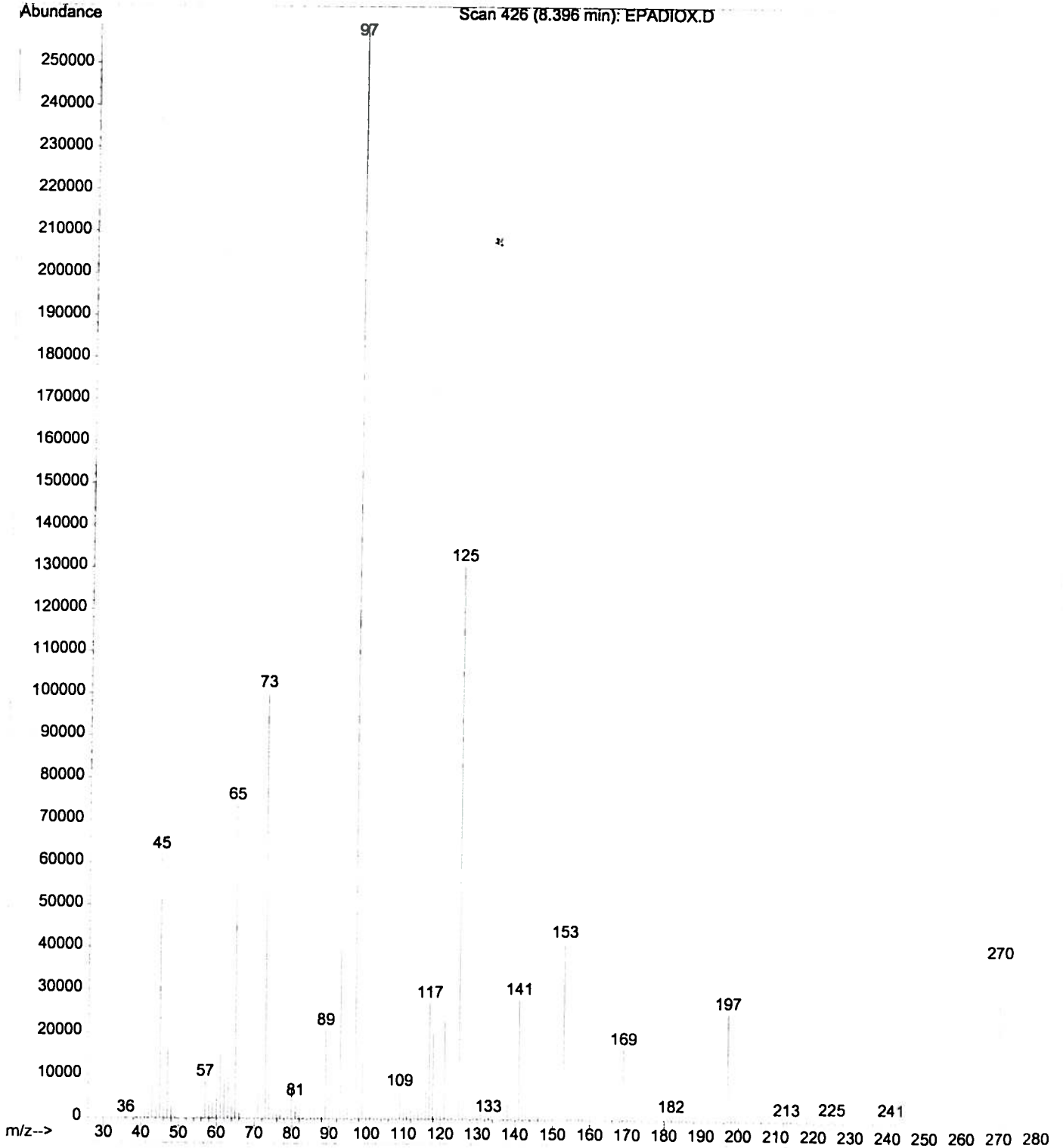
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Misc Info :
Vial Number: 25



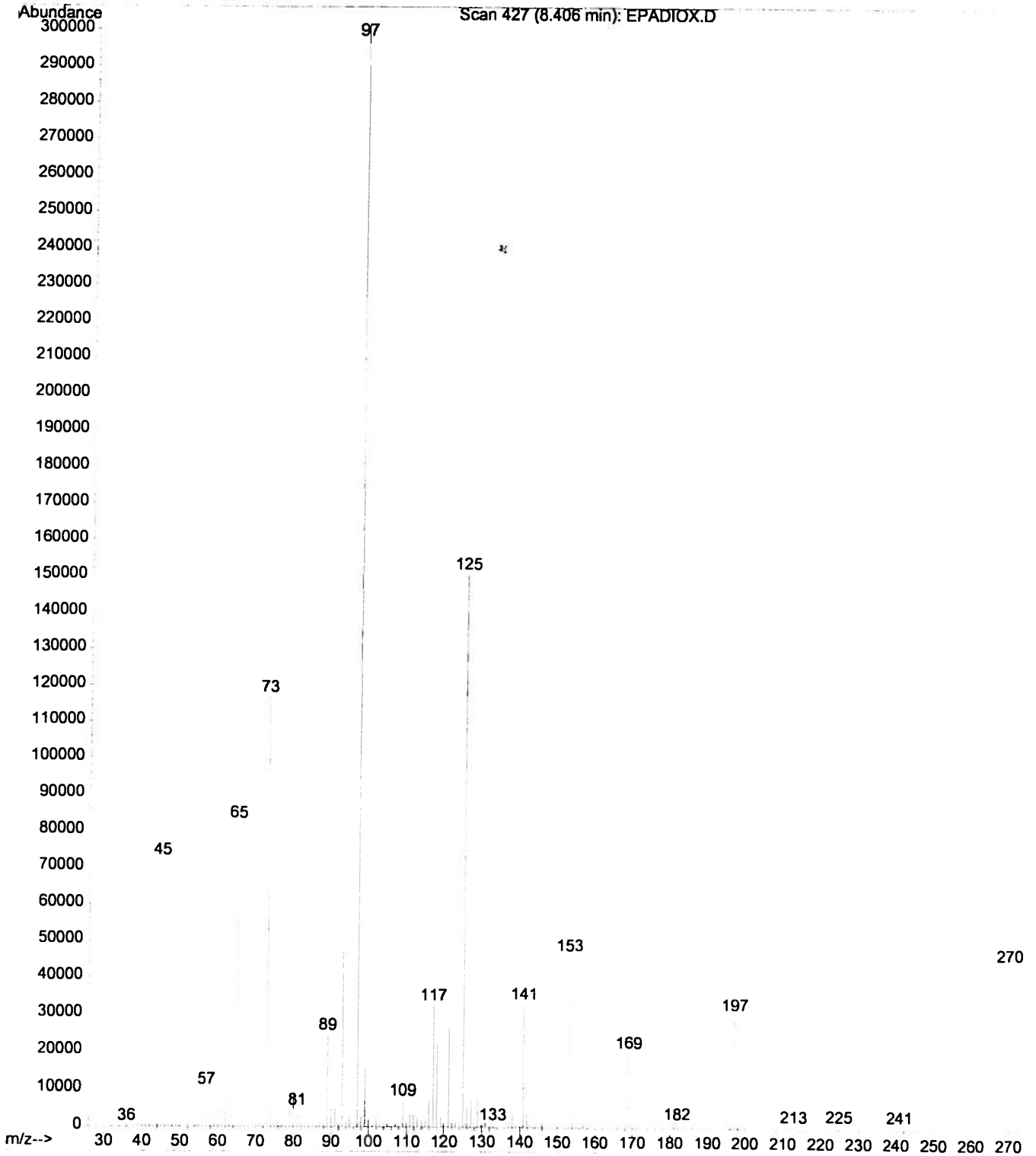
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Misc Info :
Vial Number: 25



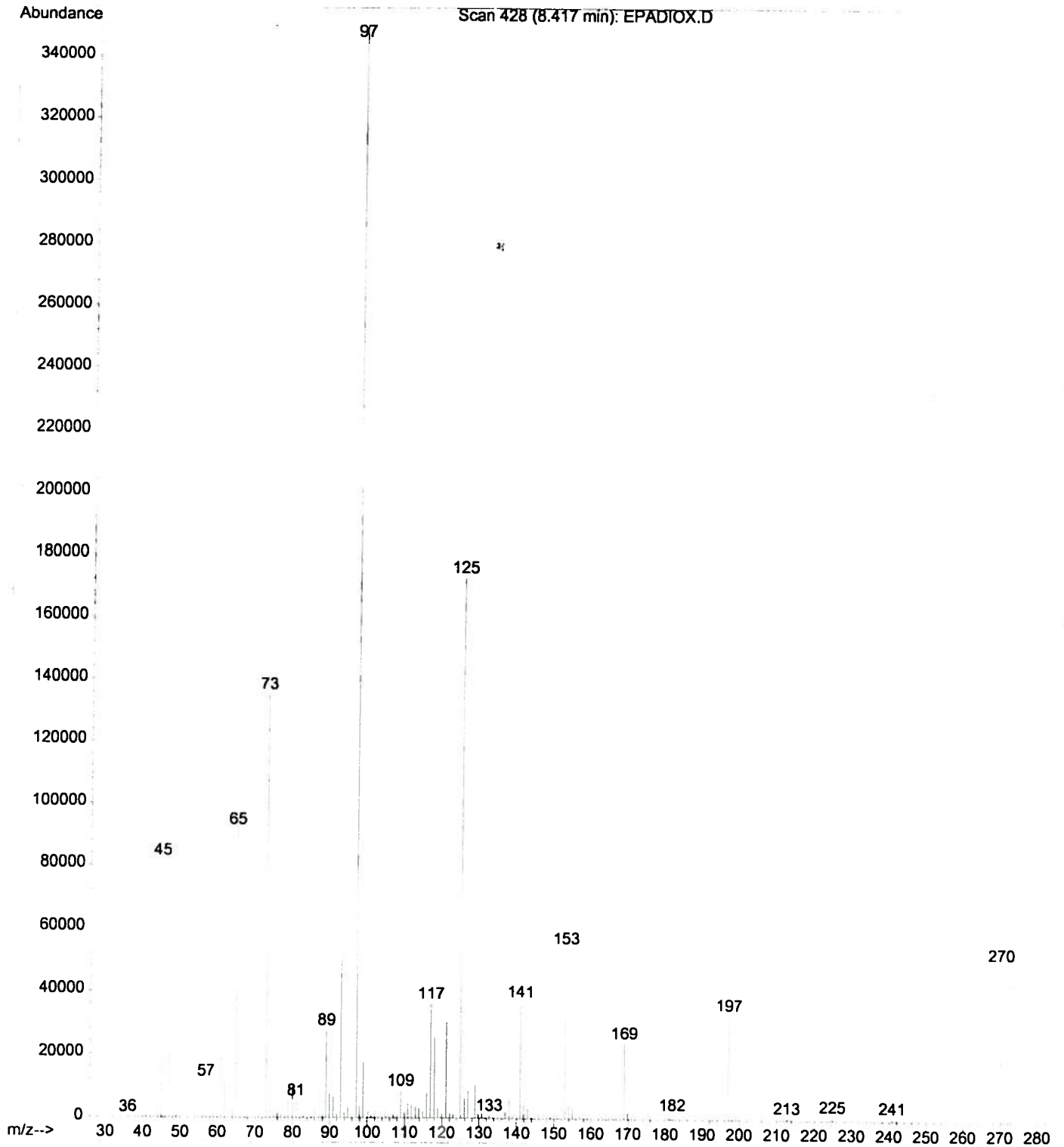
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Misc Info :
Vial Number: 25



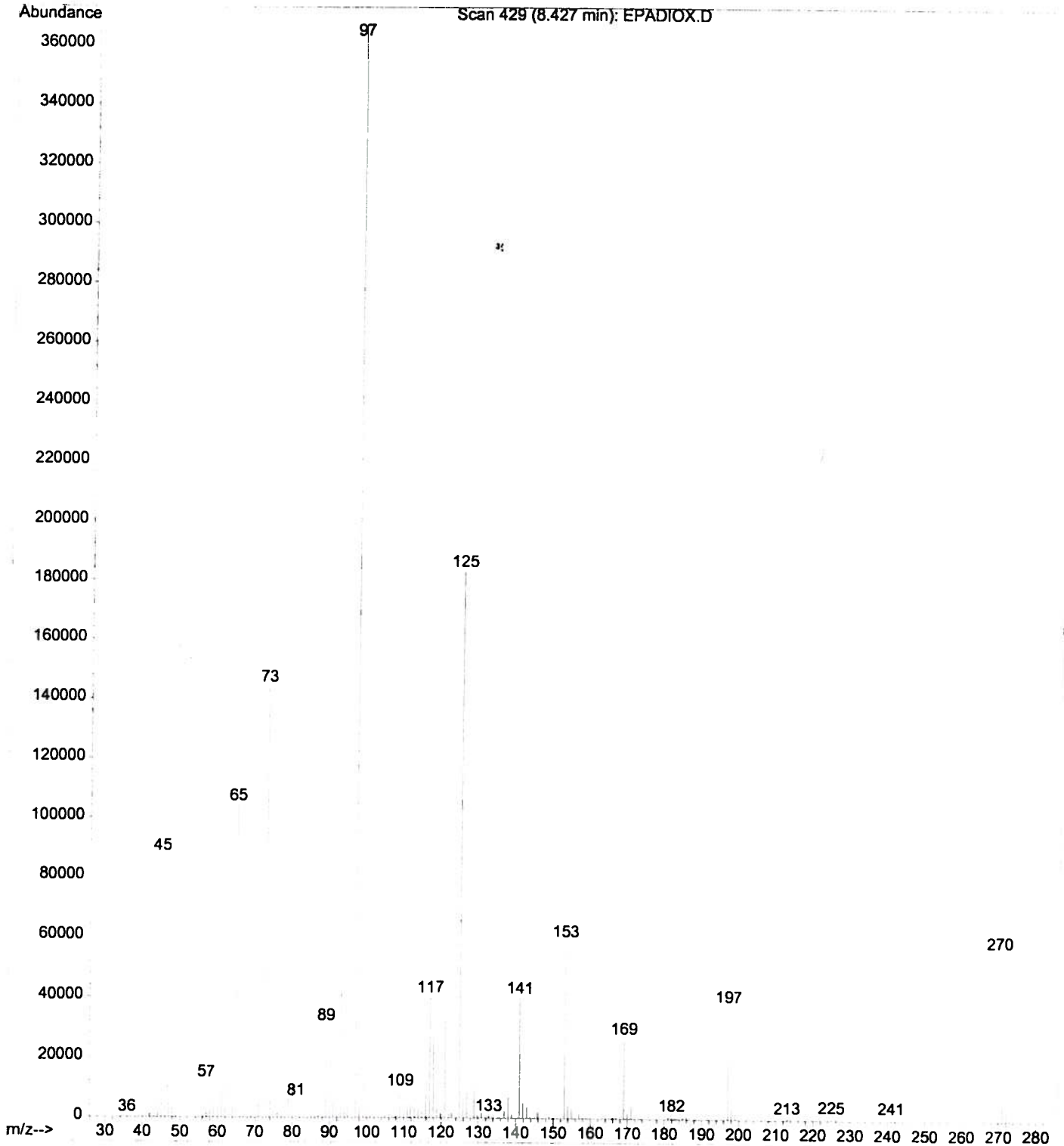
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Misc Info :
Vial Number: 25



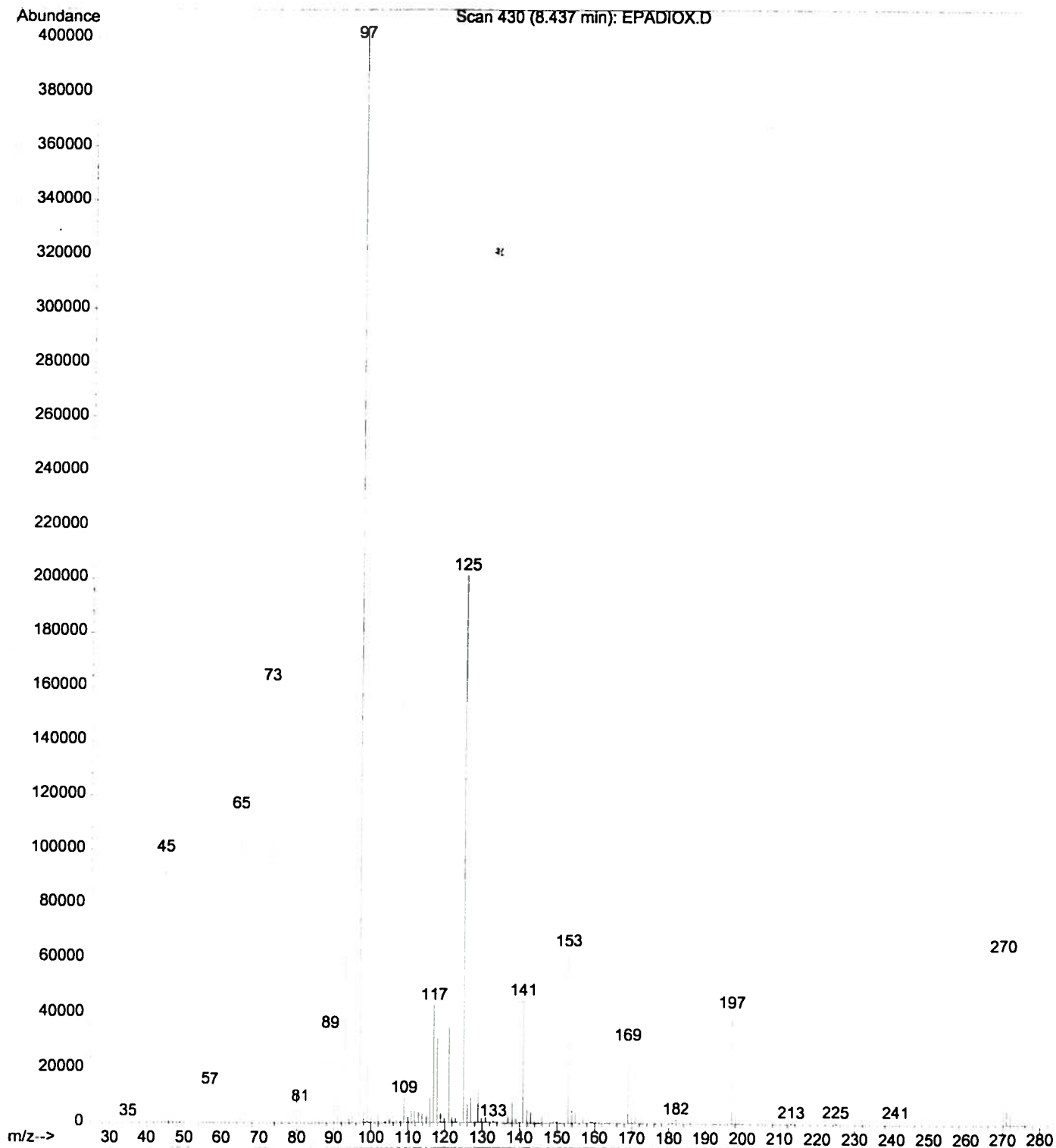
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Misc Info :
Vial Number: 25



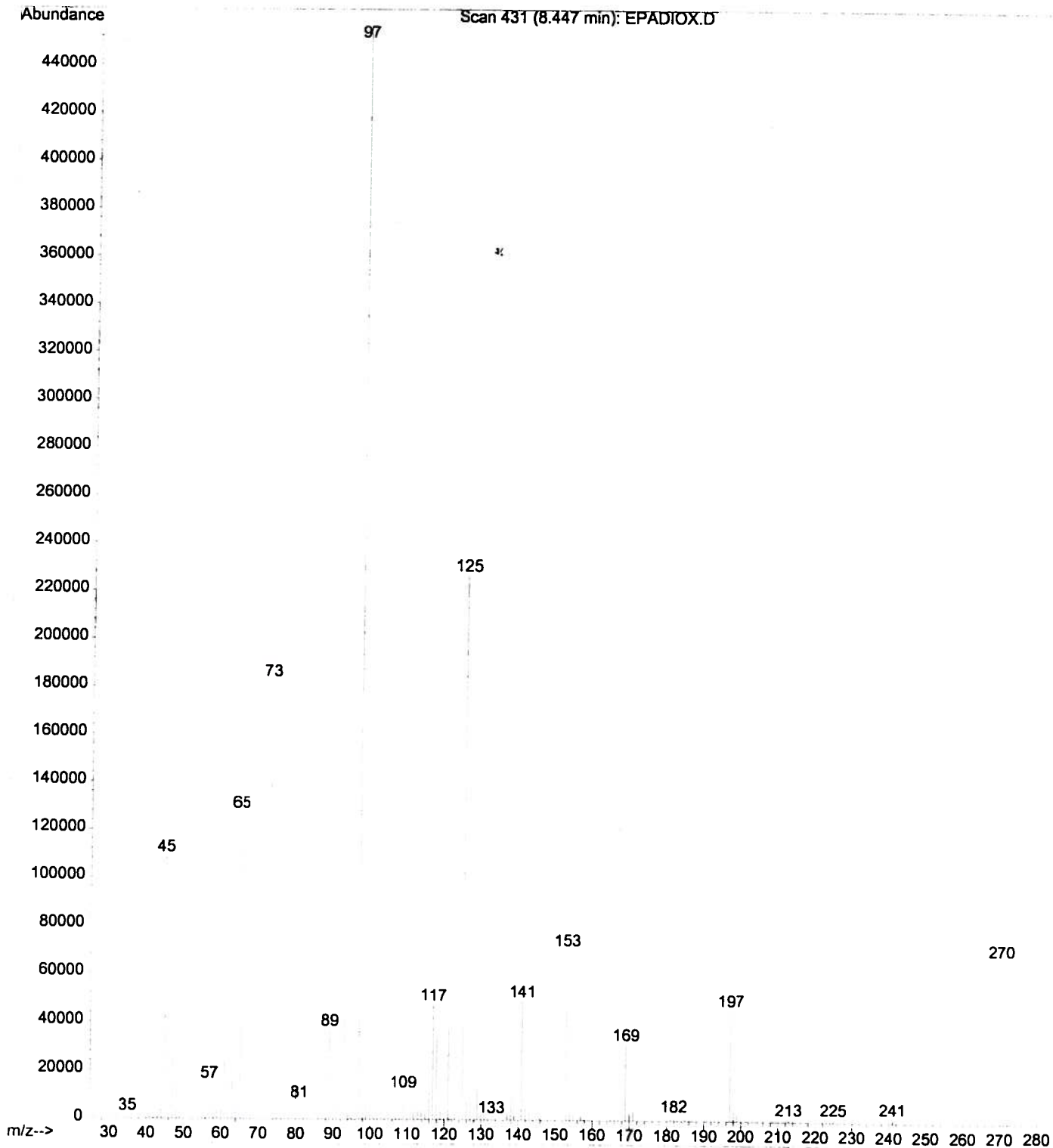
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Misc Info :
Vial Number: 25



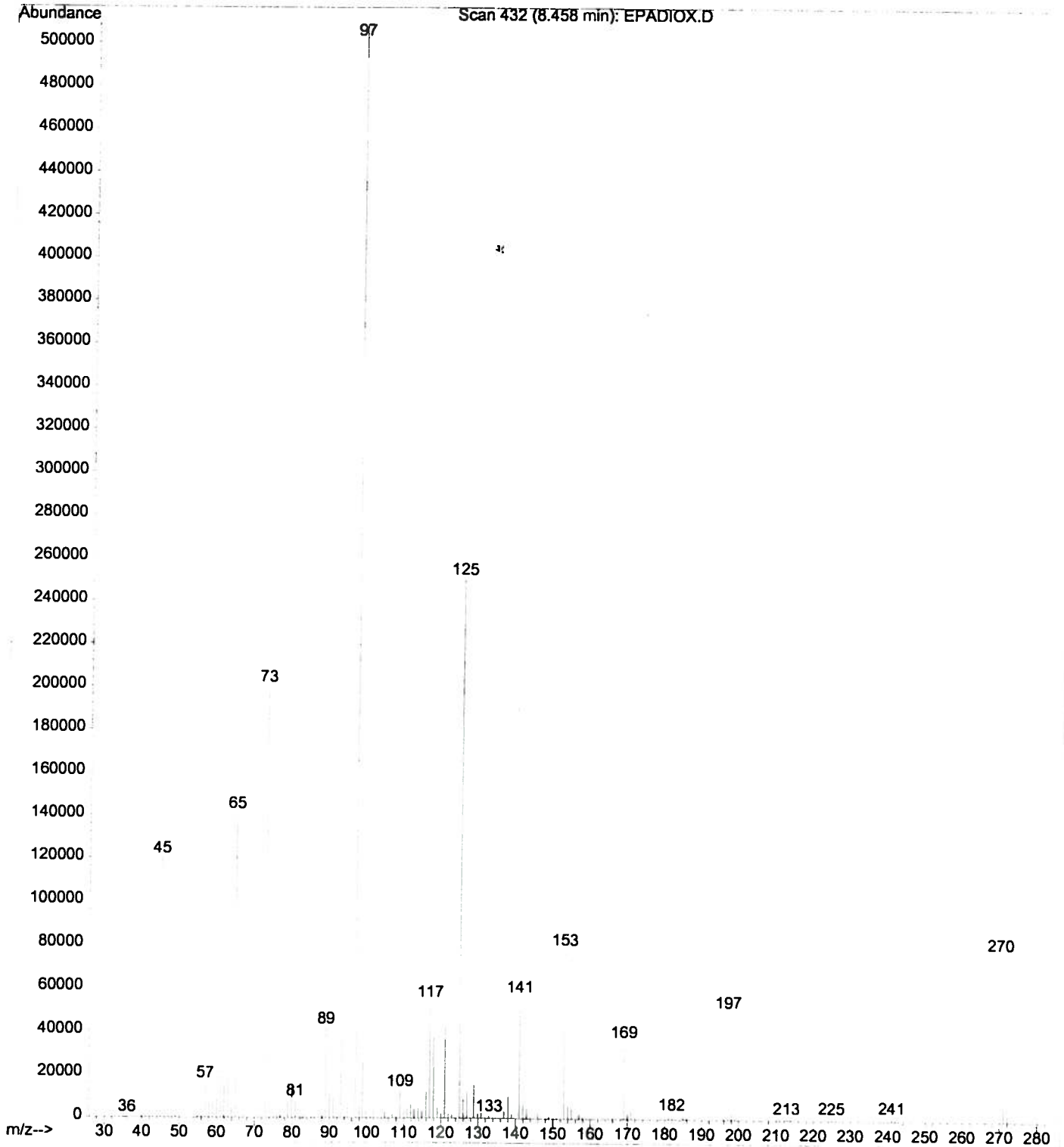
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Misc Info :
Vial Number: 25



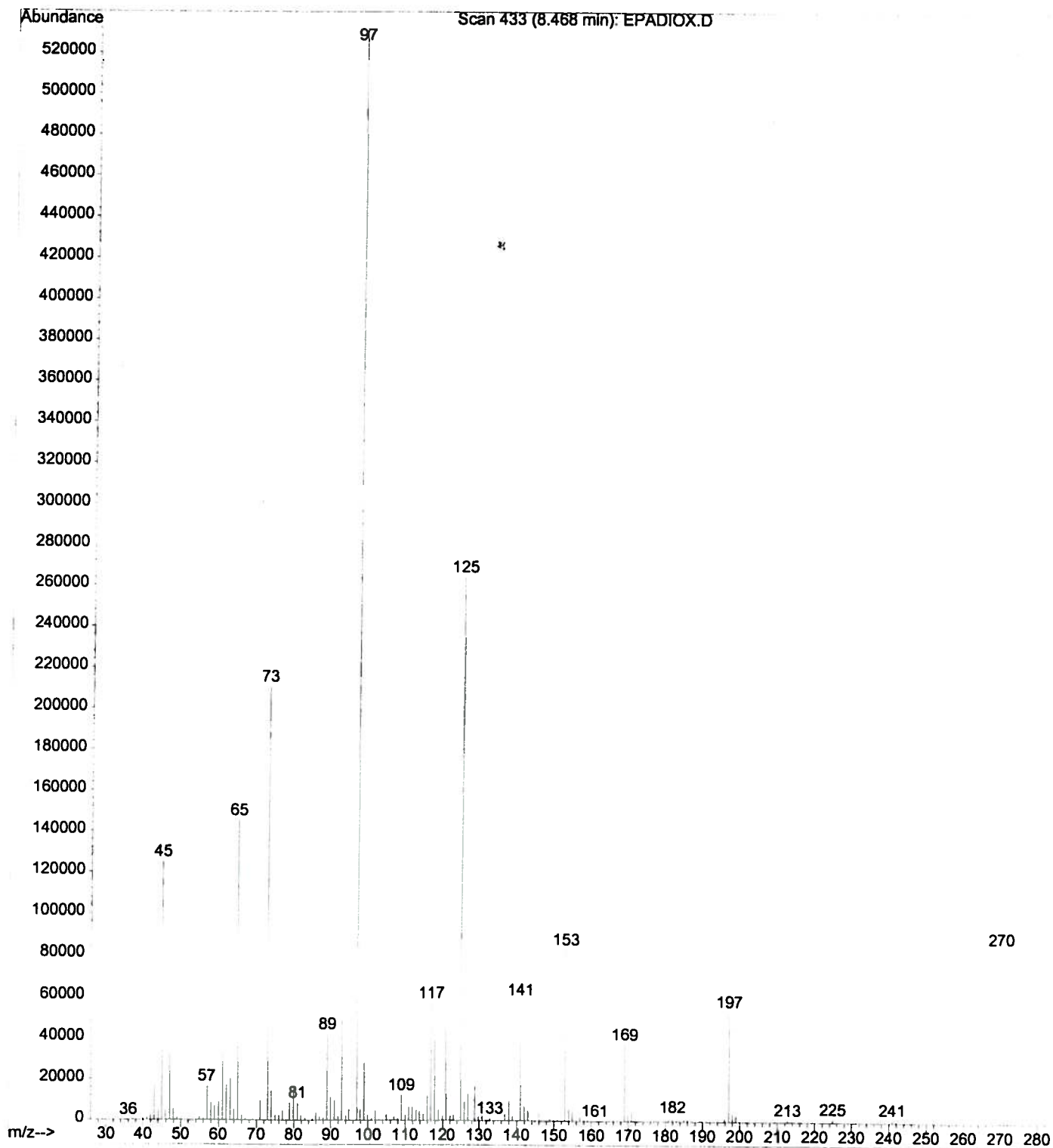
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Vial Number: 25



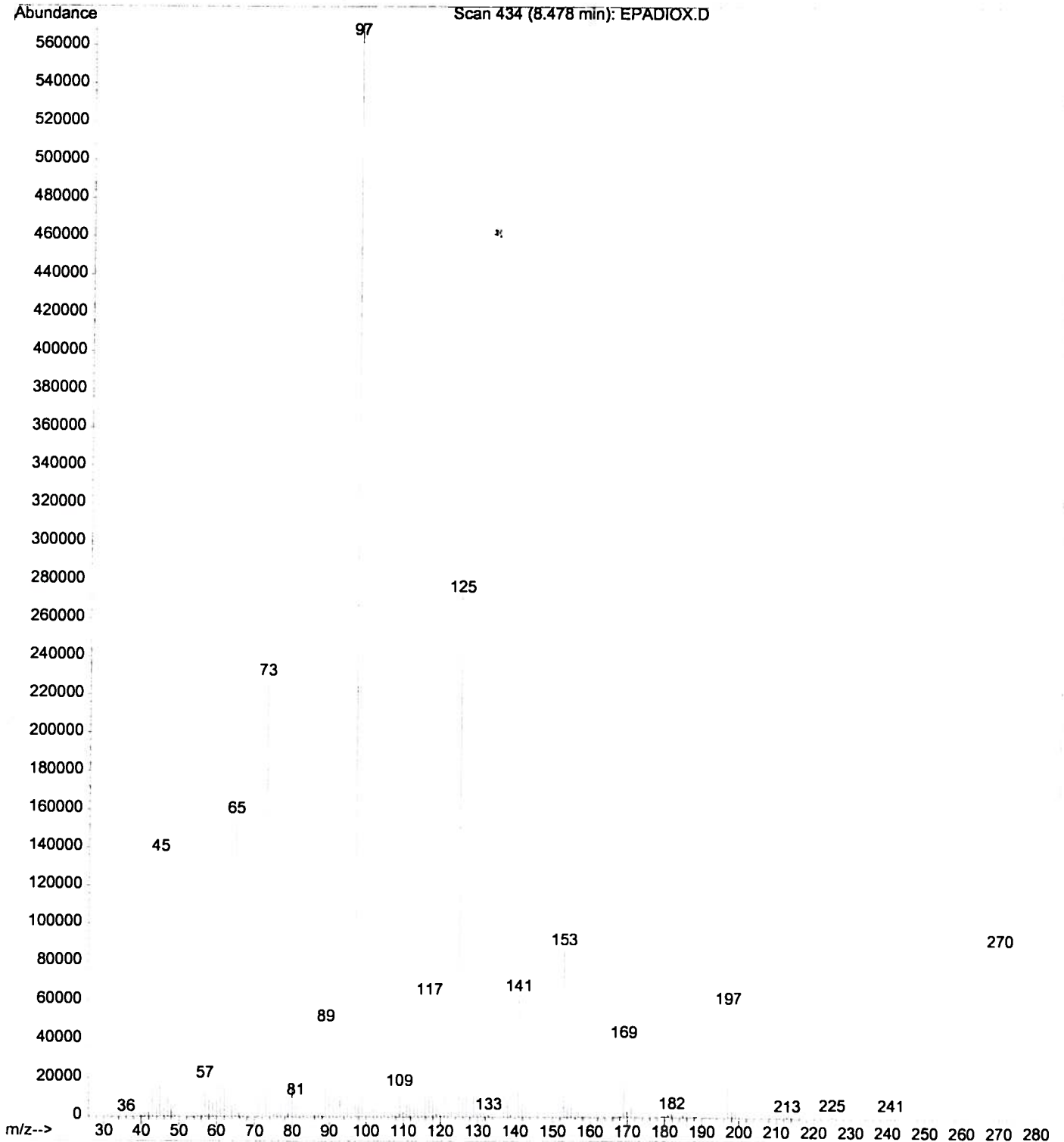
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Vial Number: 25



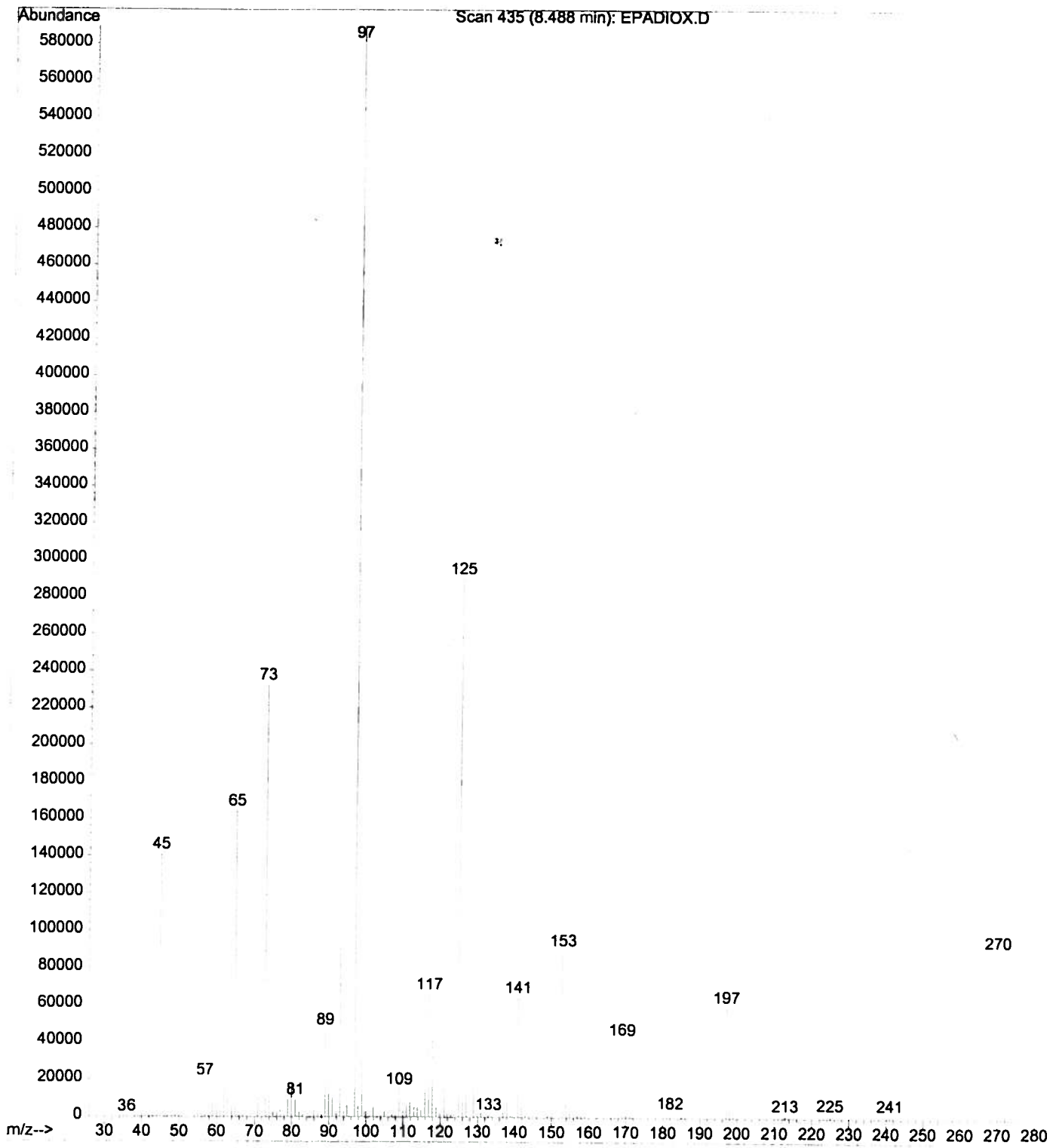
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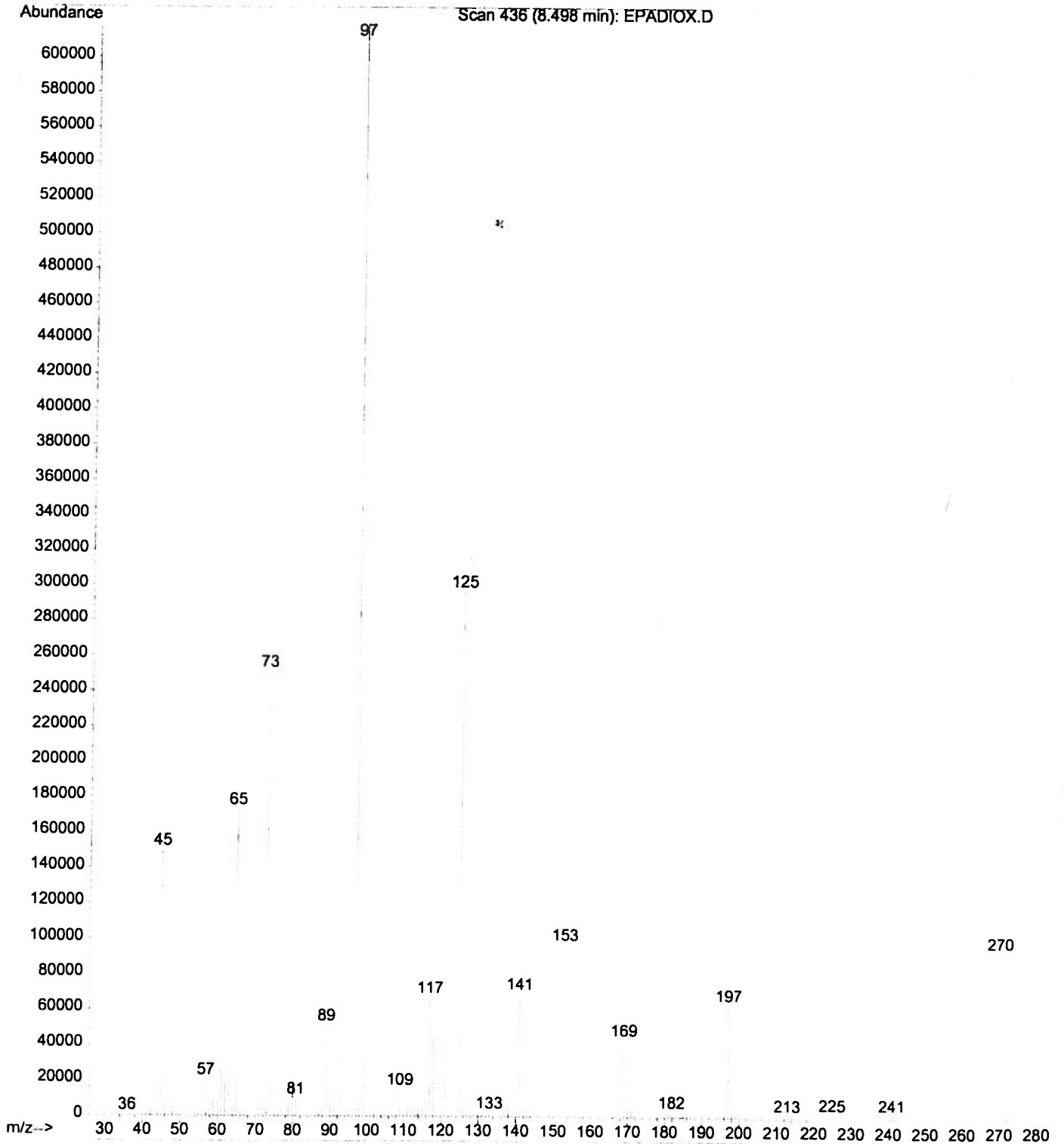
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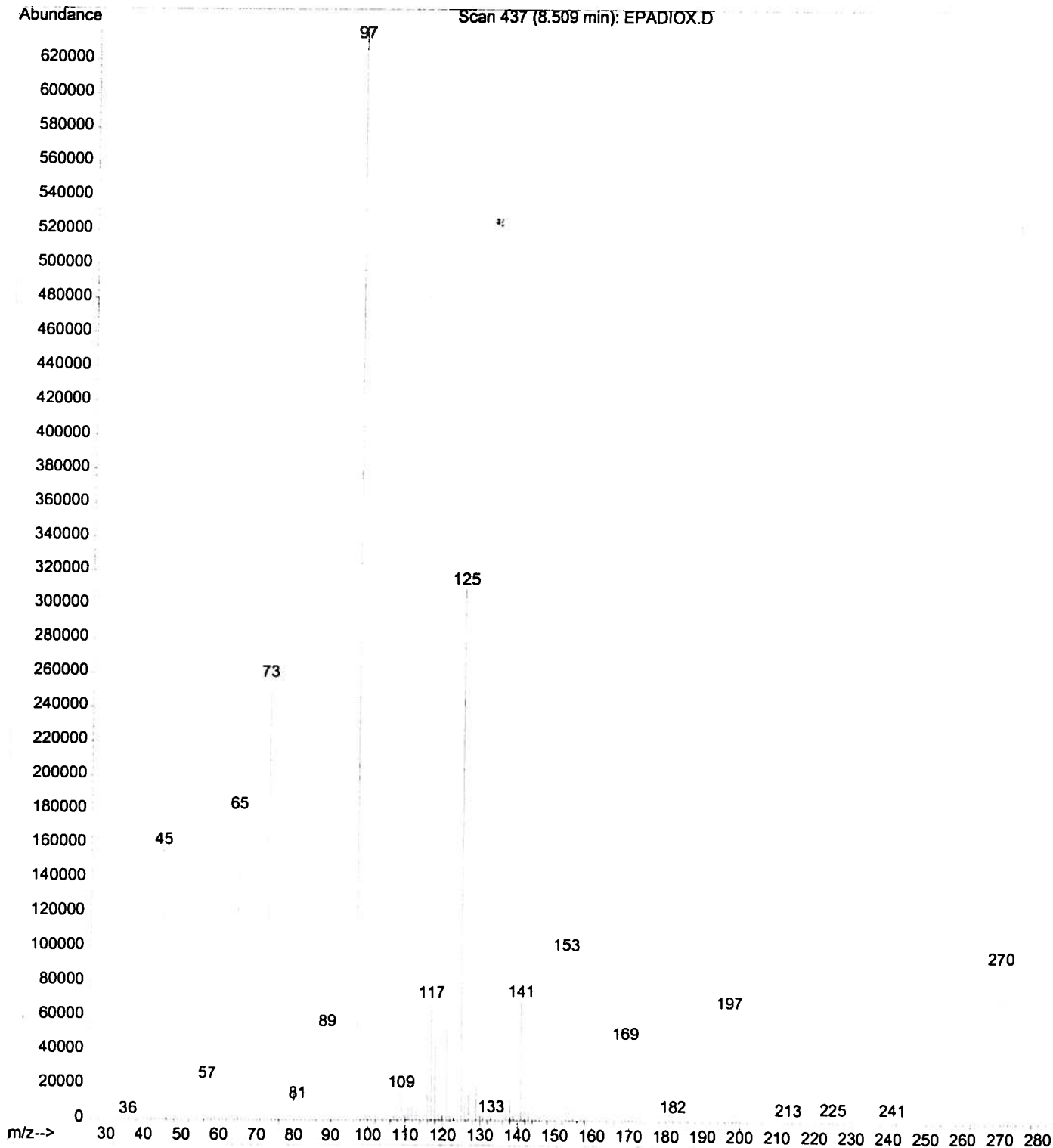
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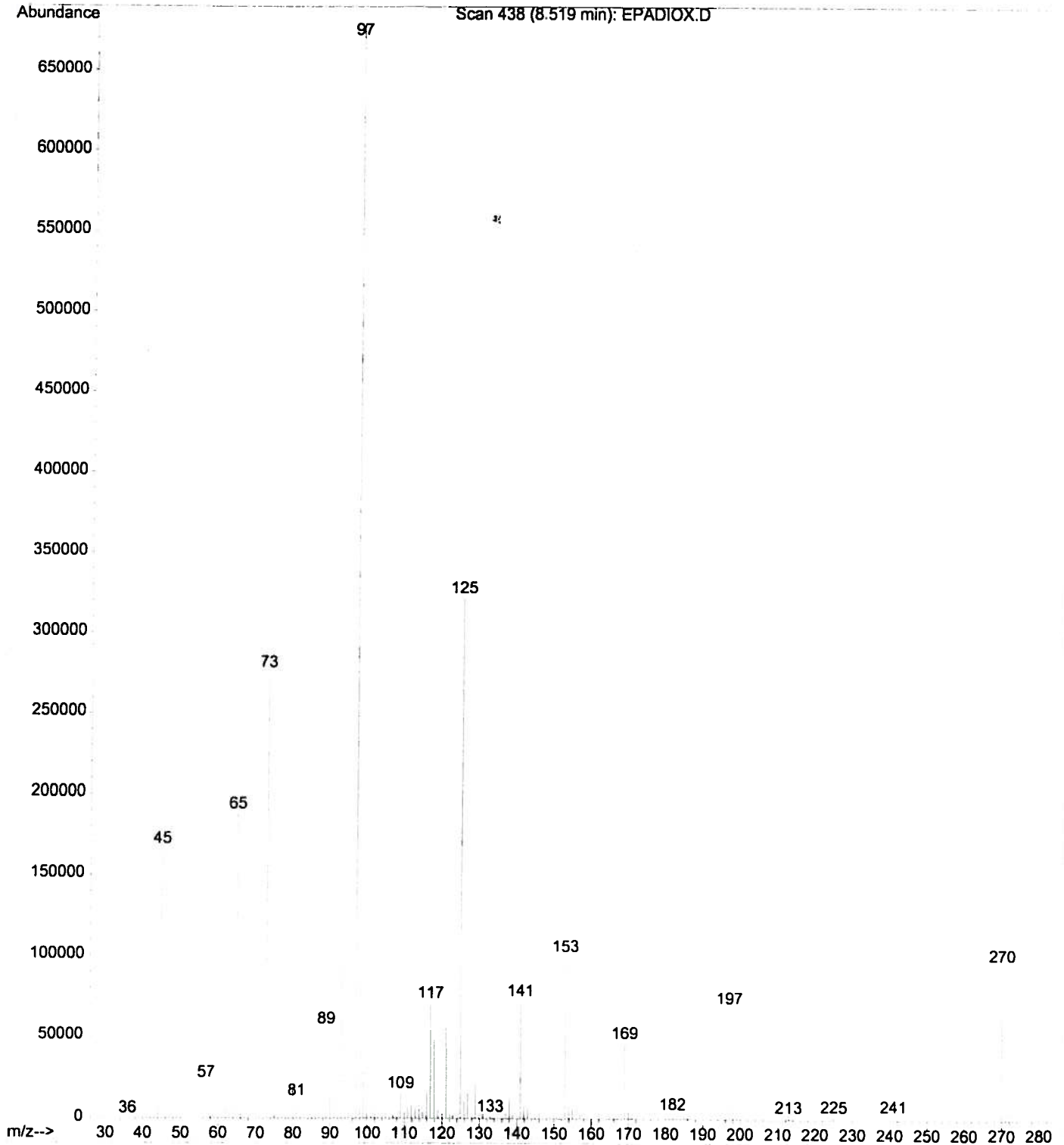
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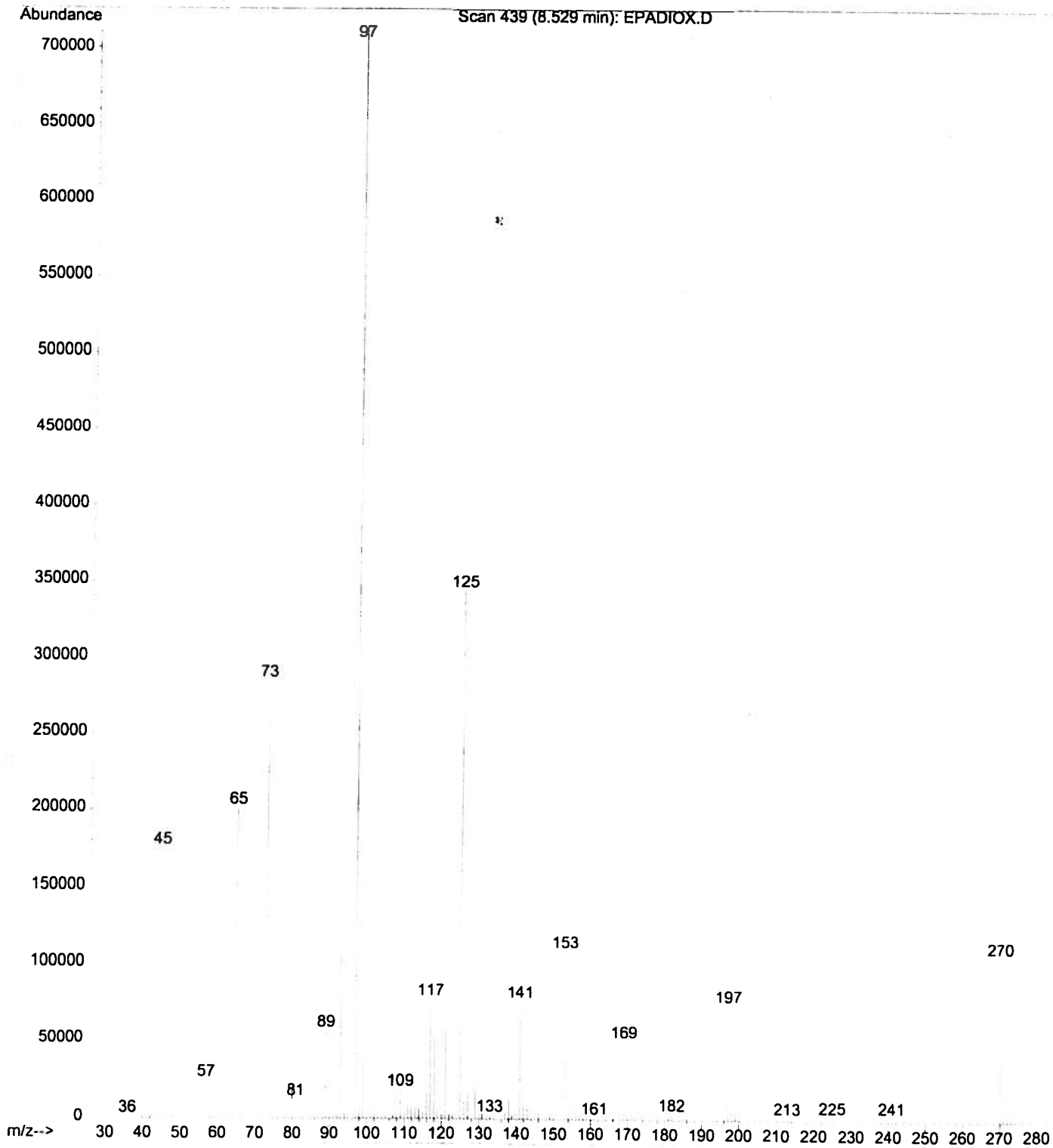
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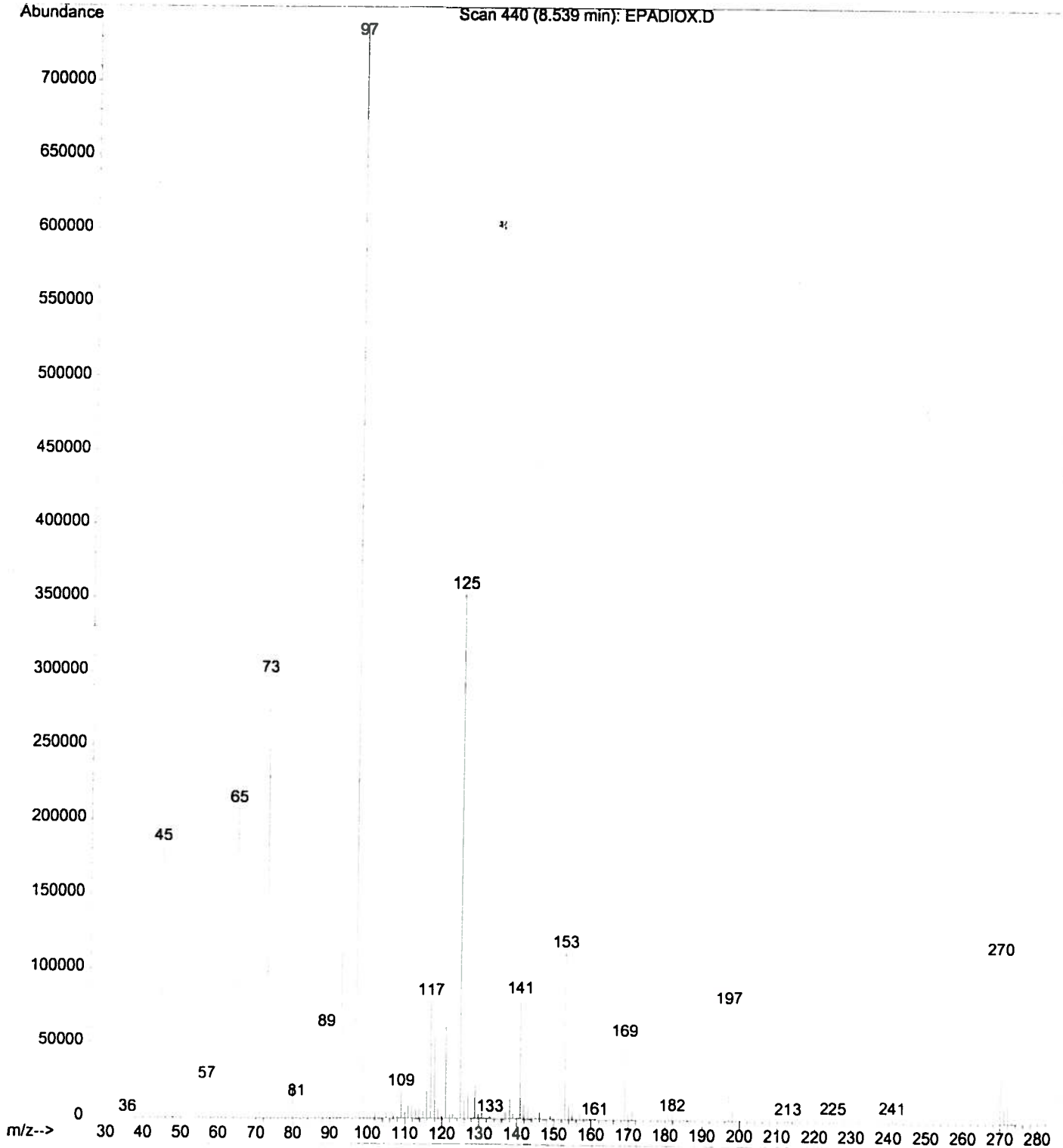
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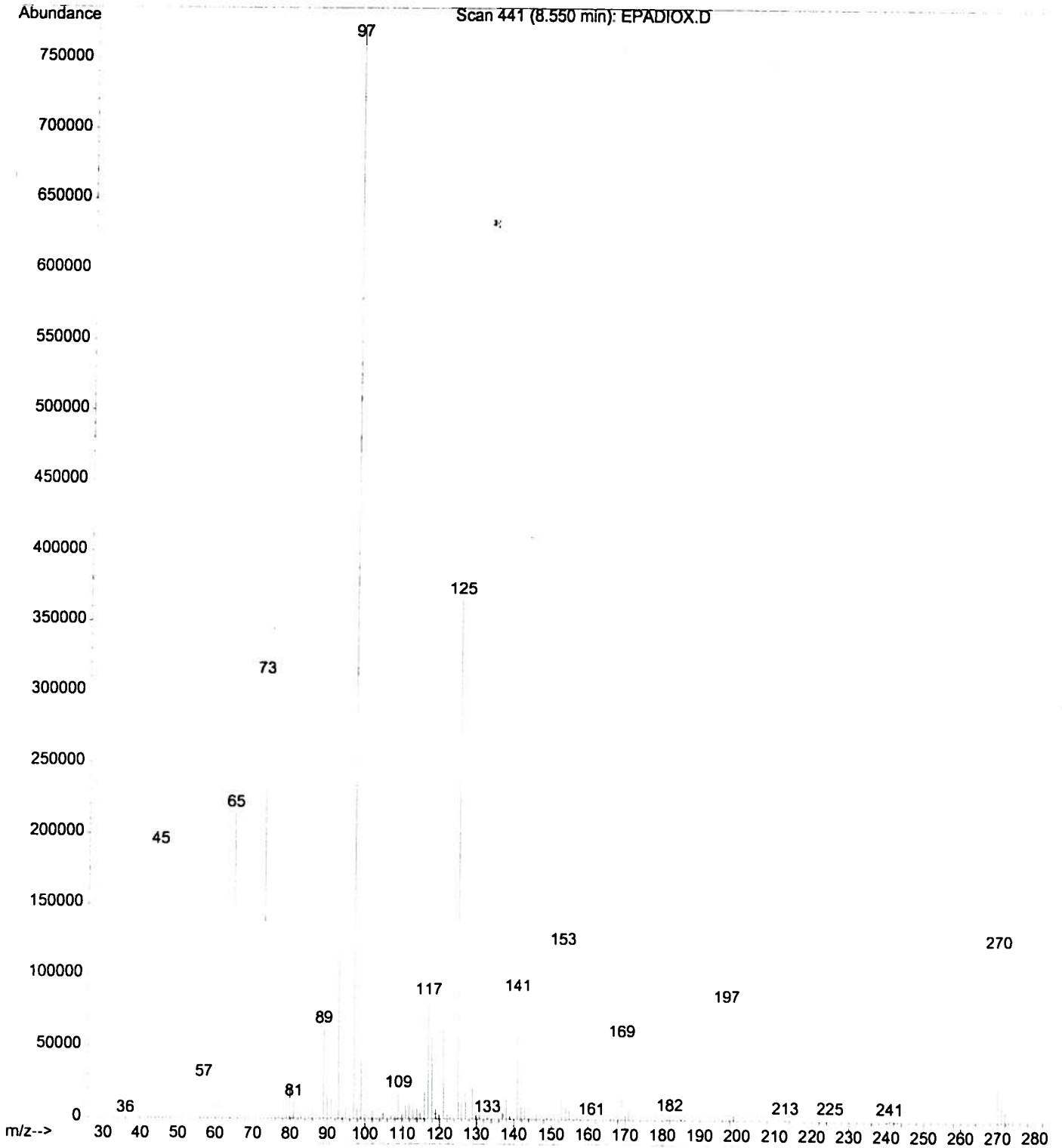
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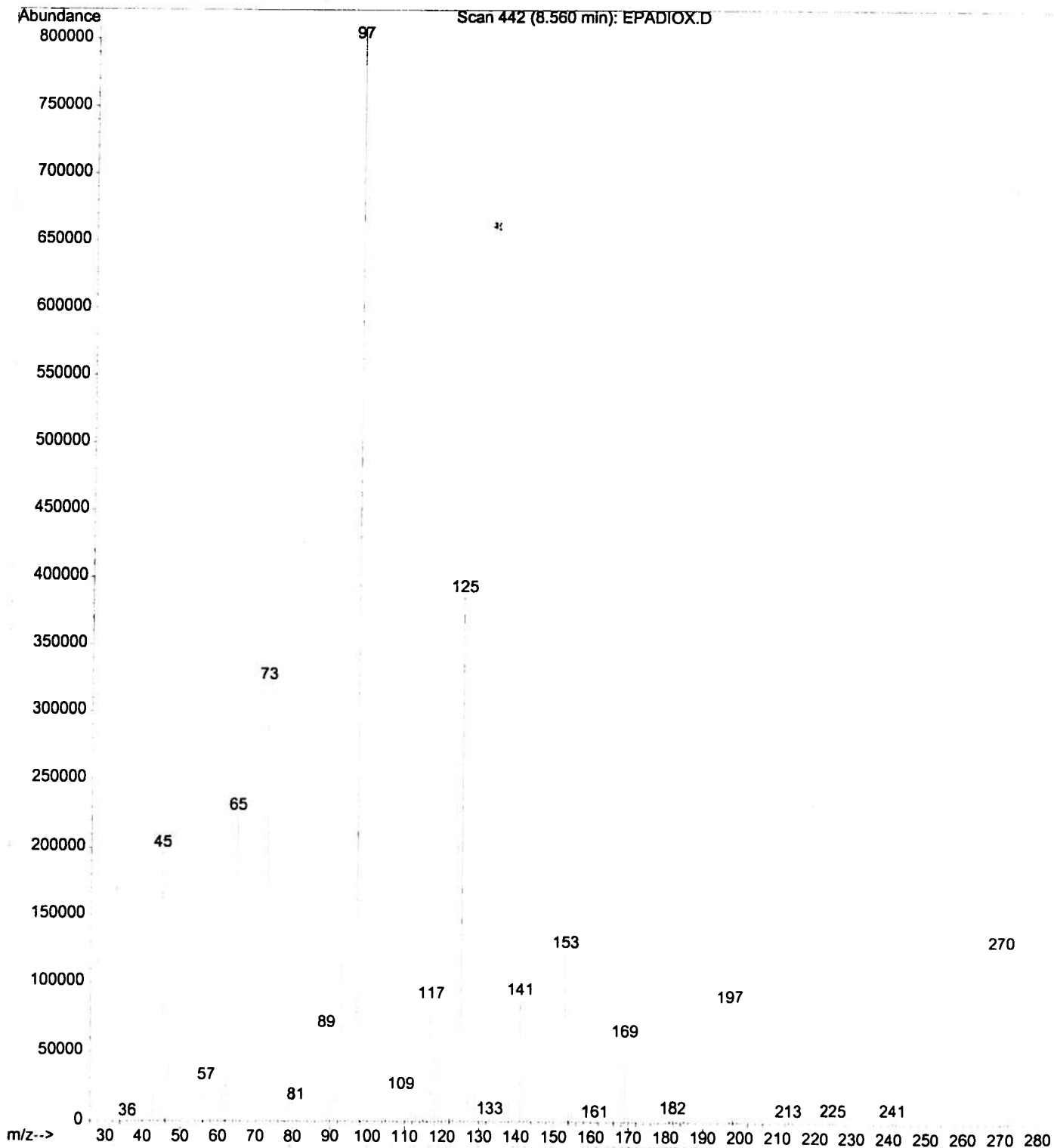
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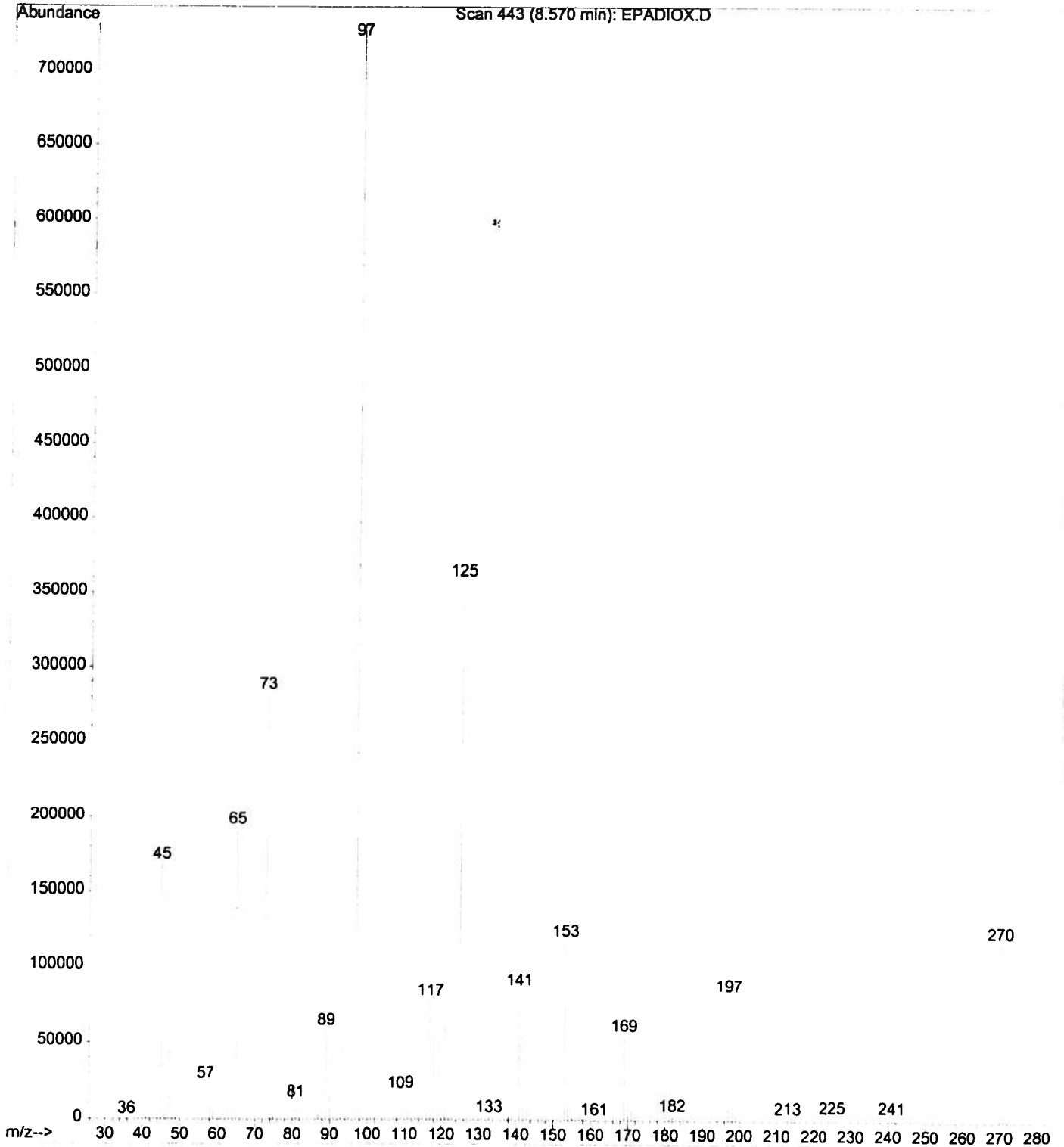
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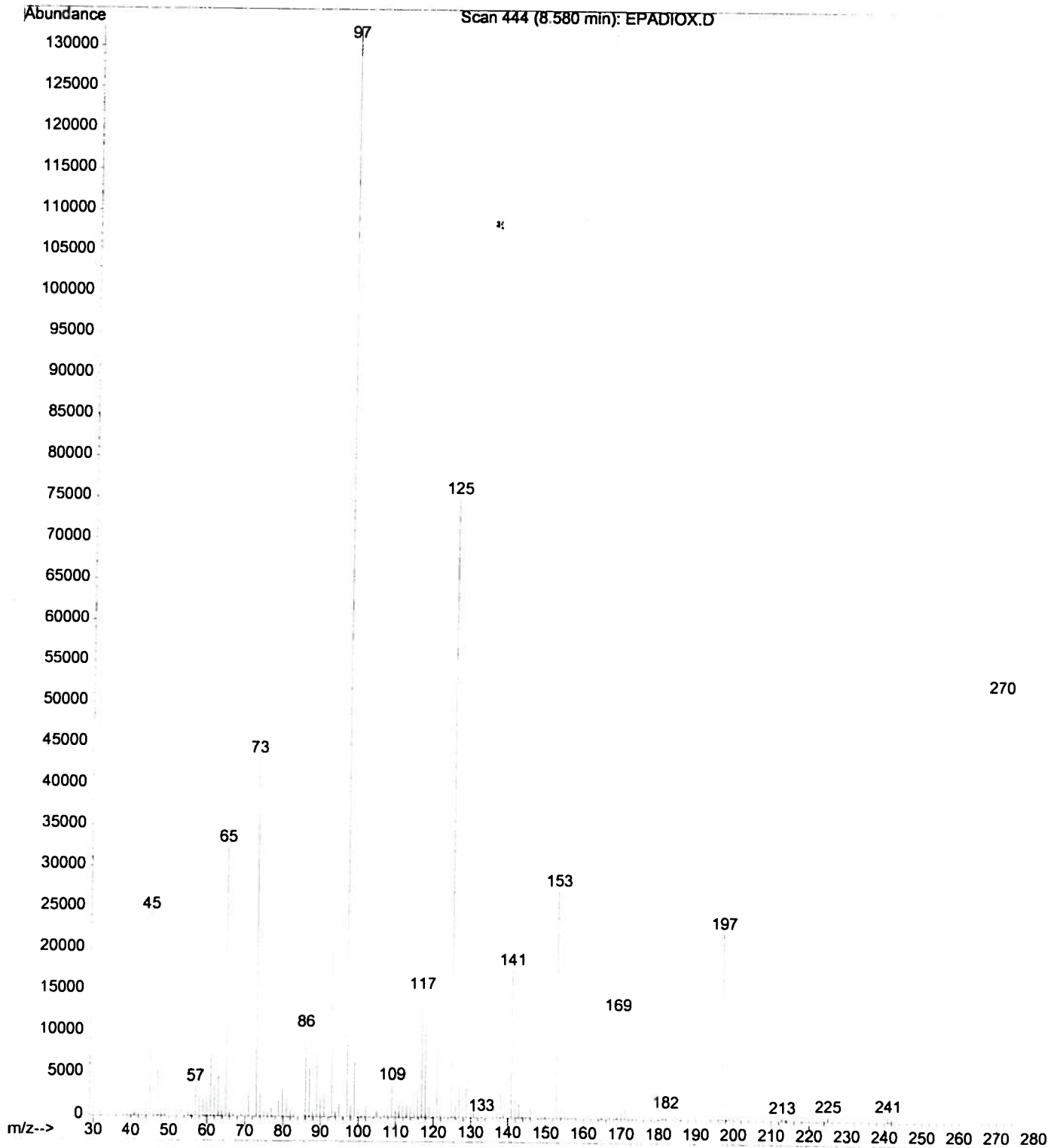
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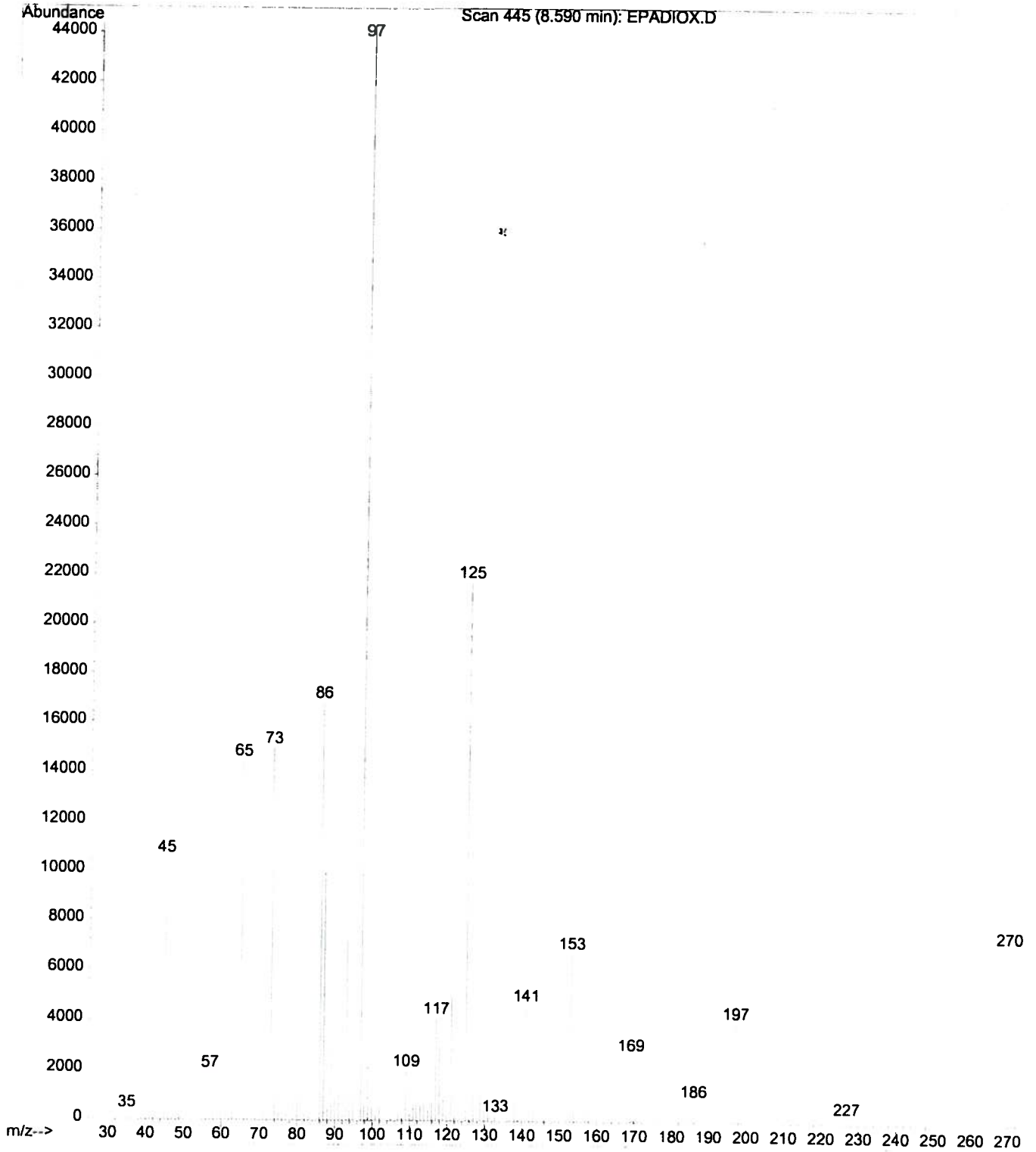
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Vial Number: 25



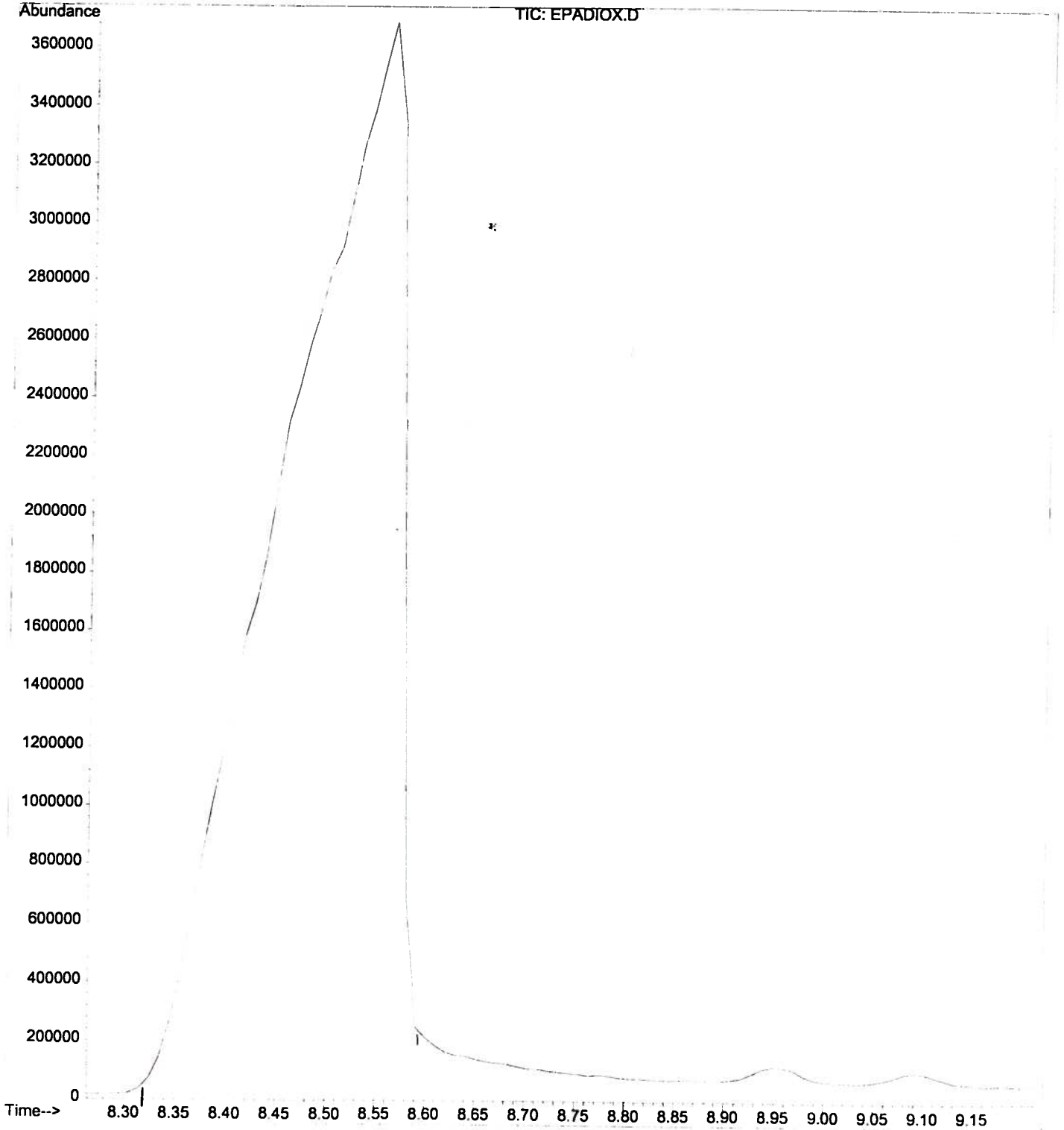
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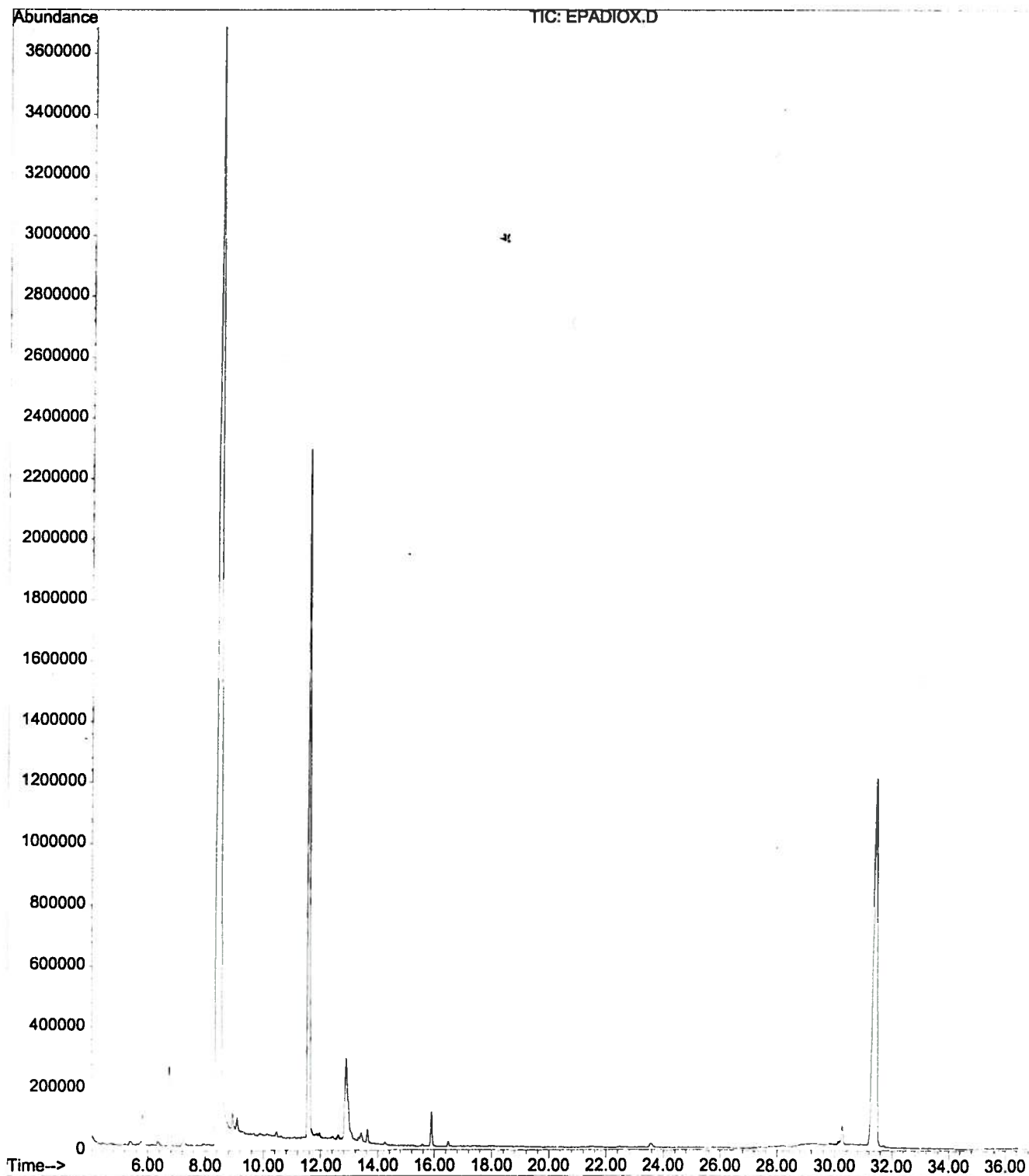
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Misc Info :
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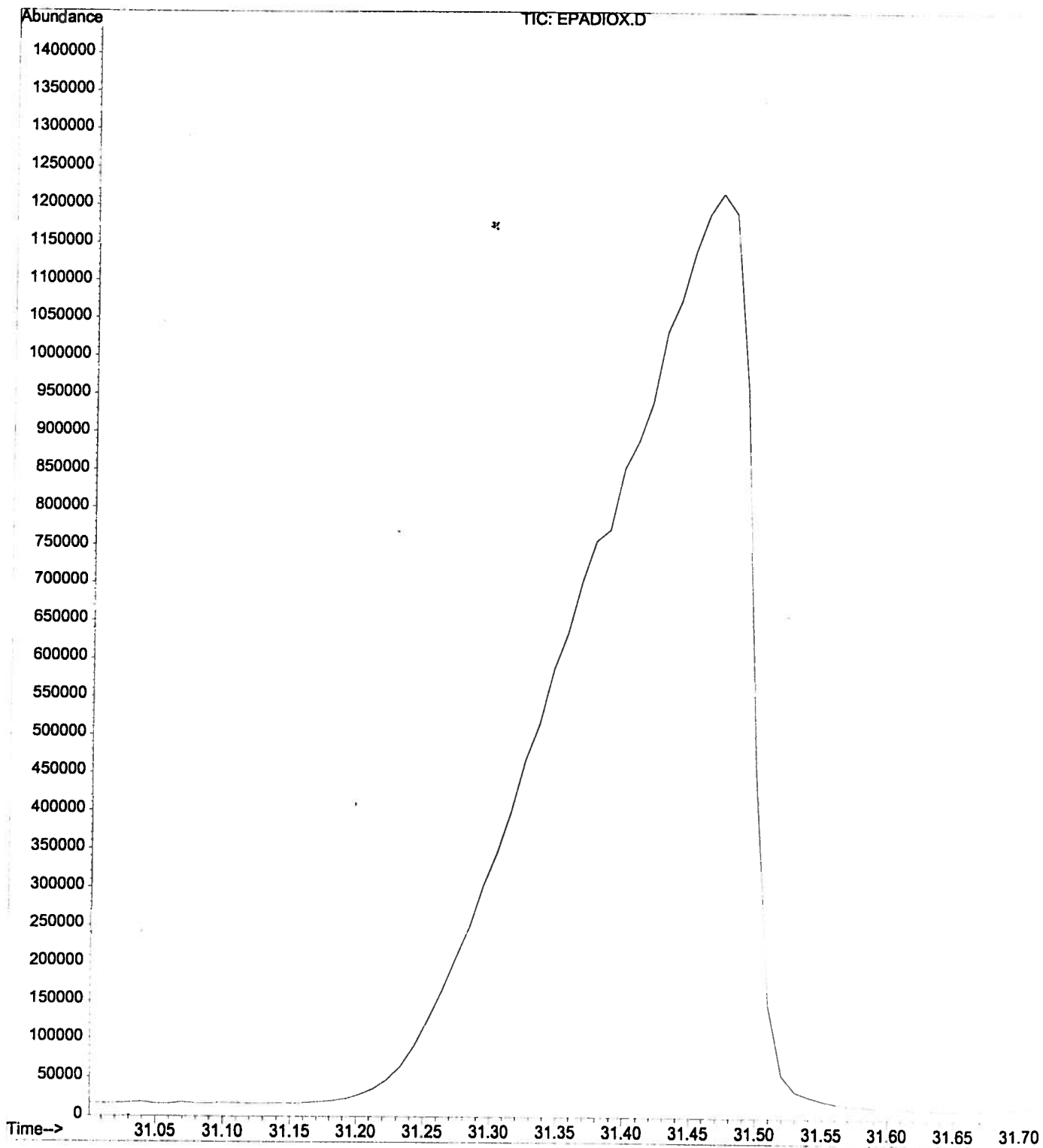
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Vial Number: 25



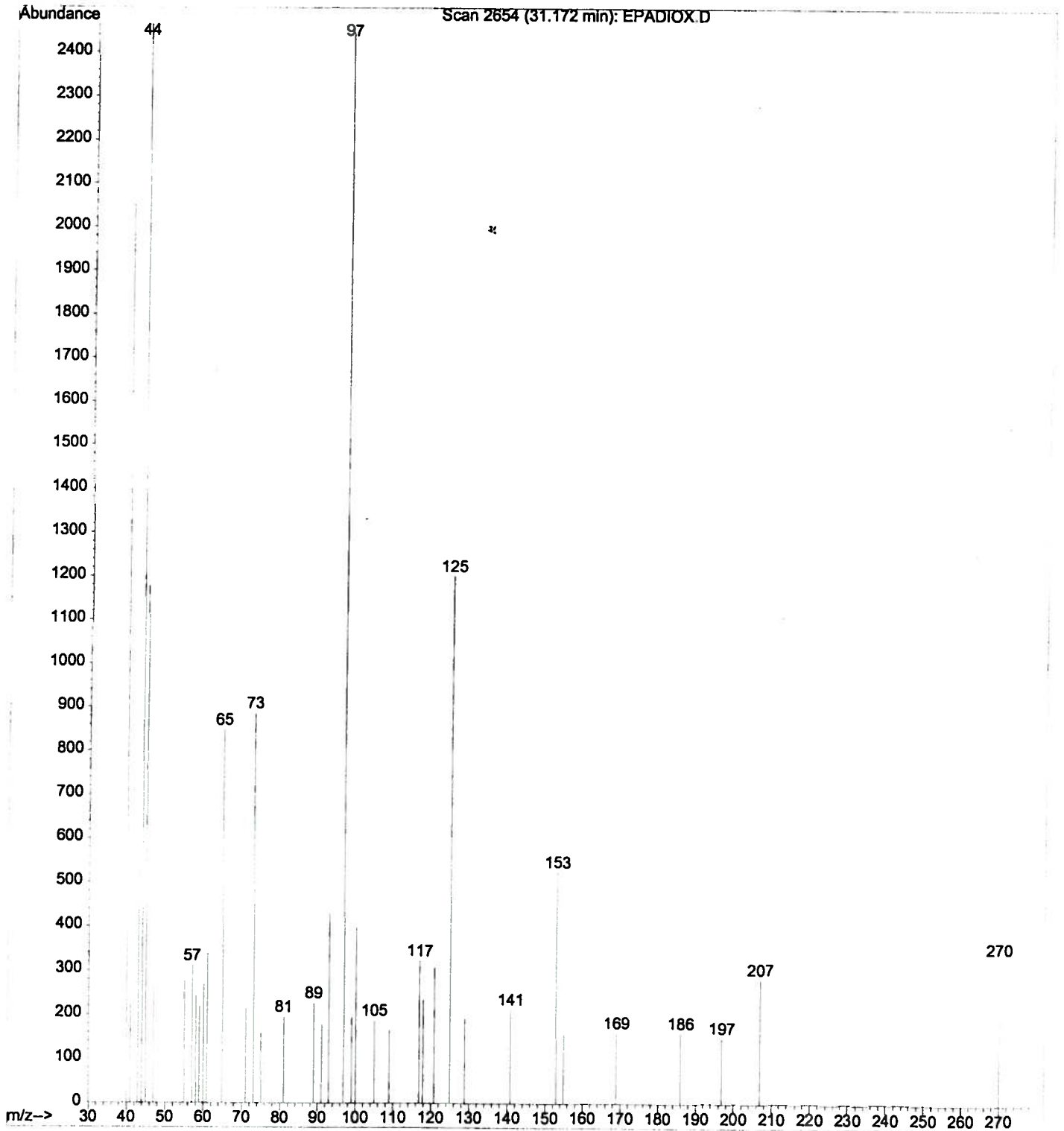
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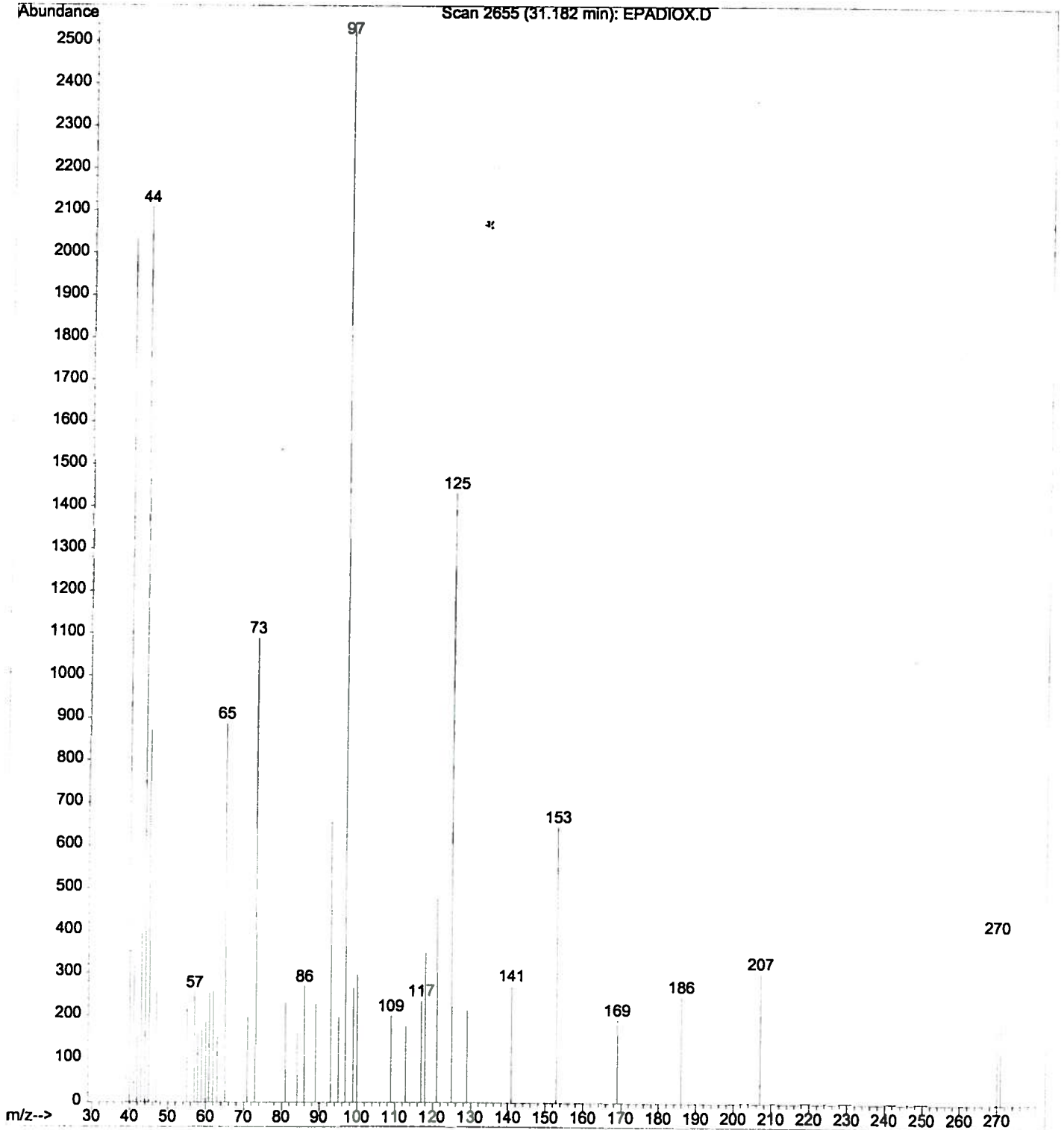
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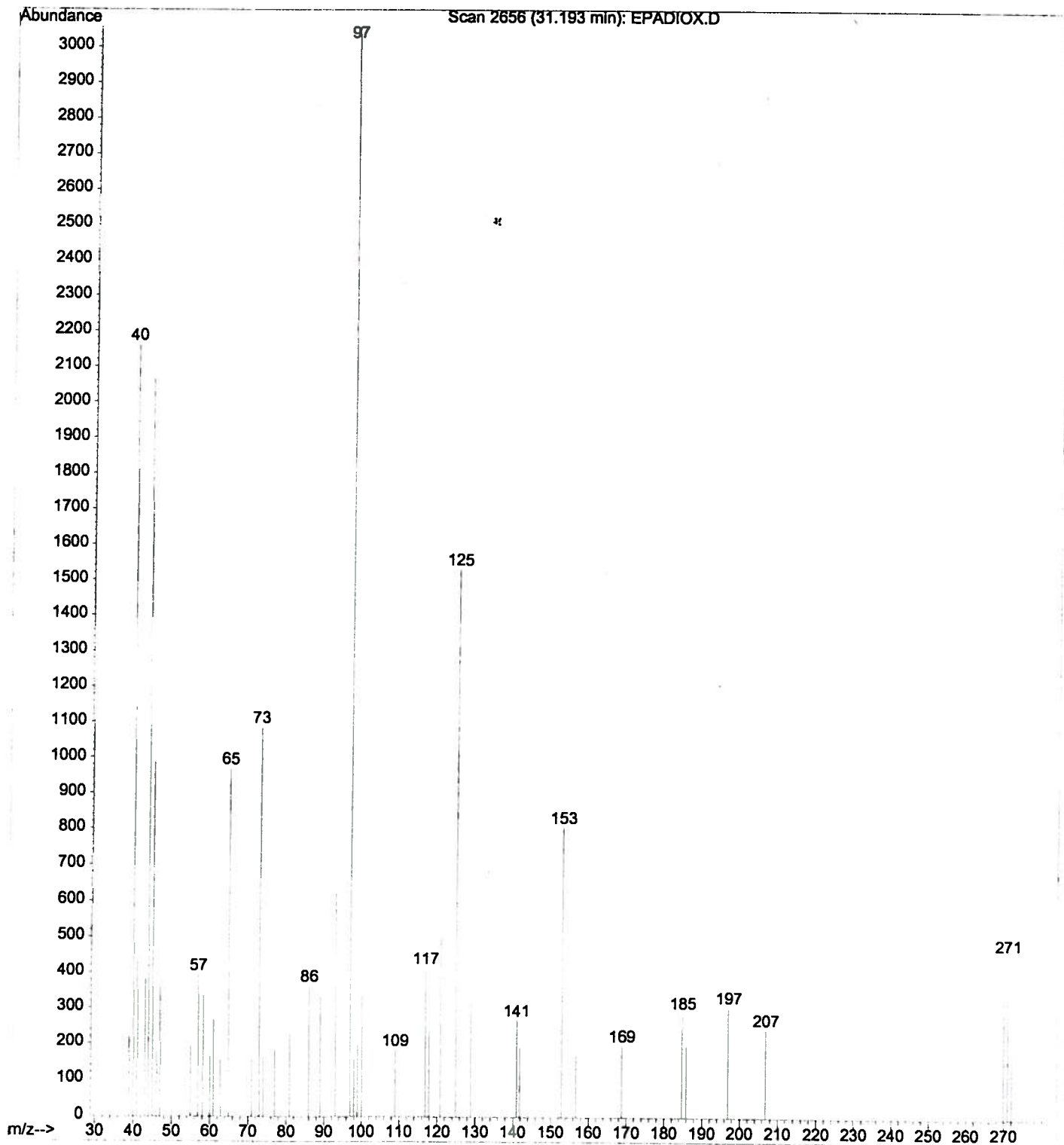
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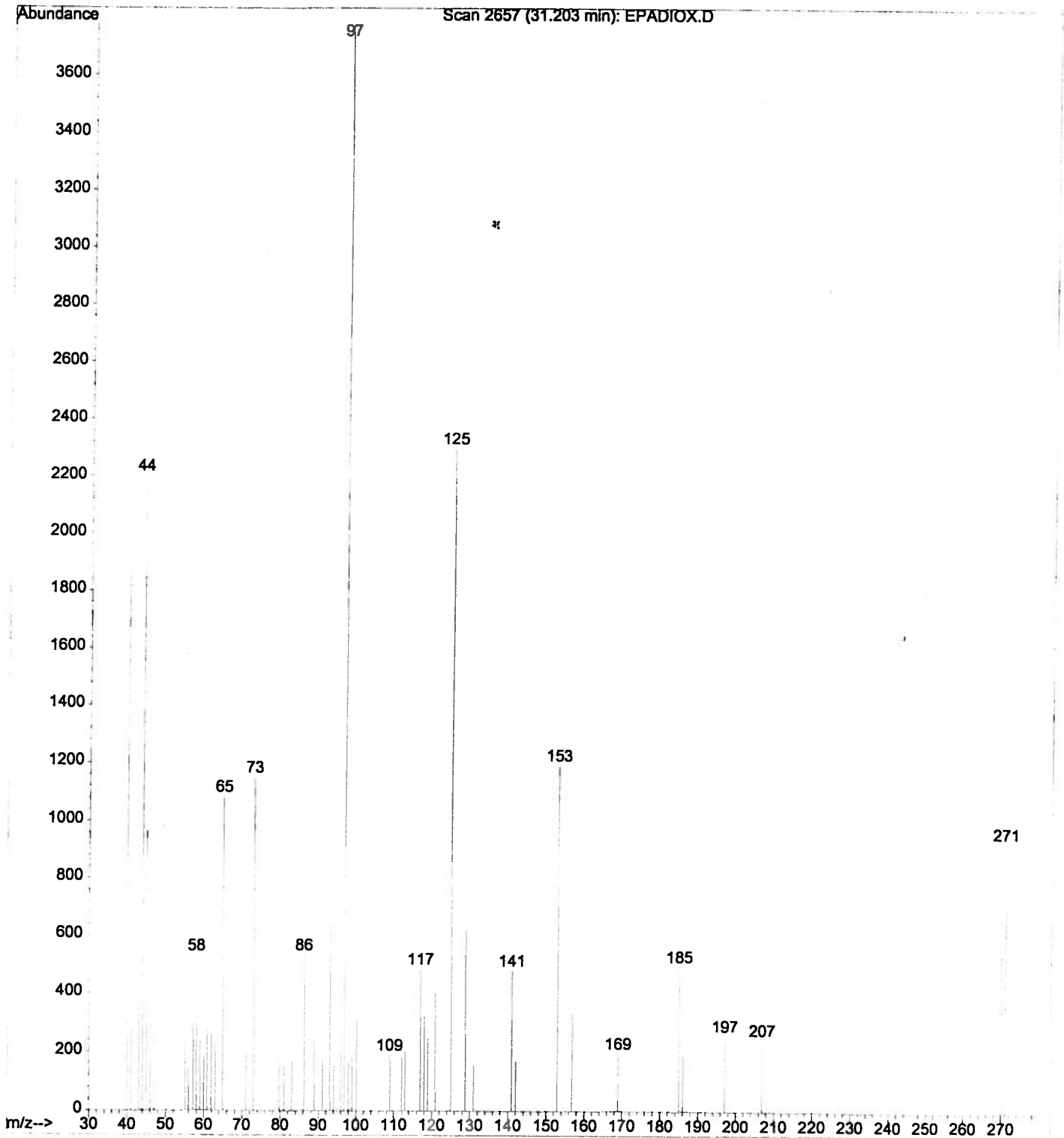
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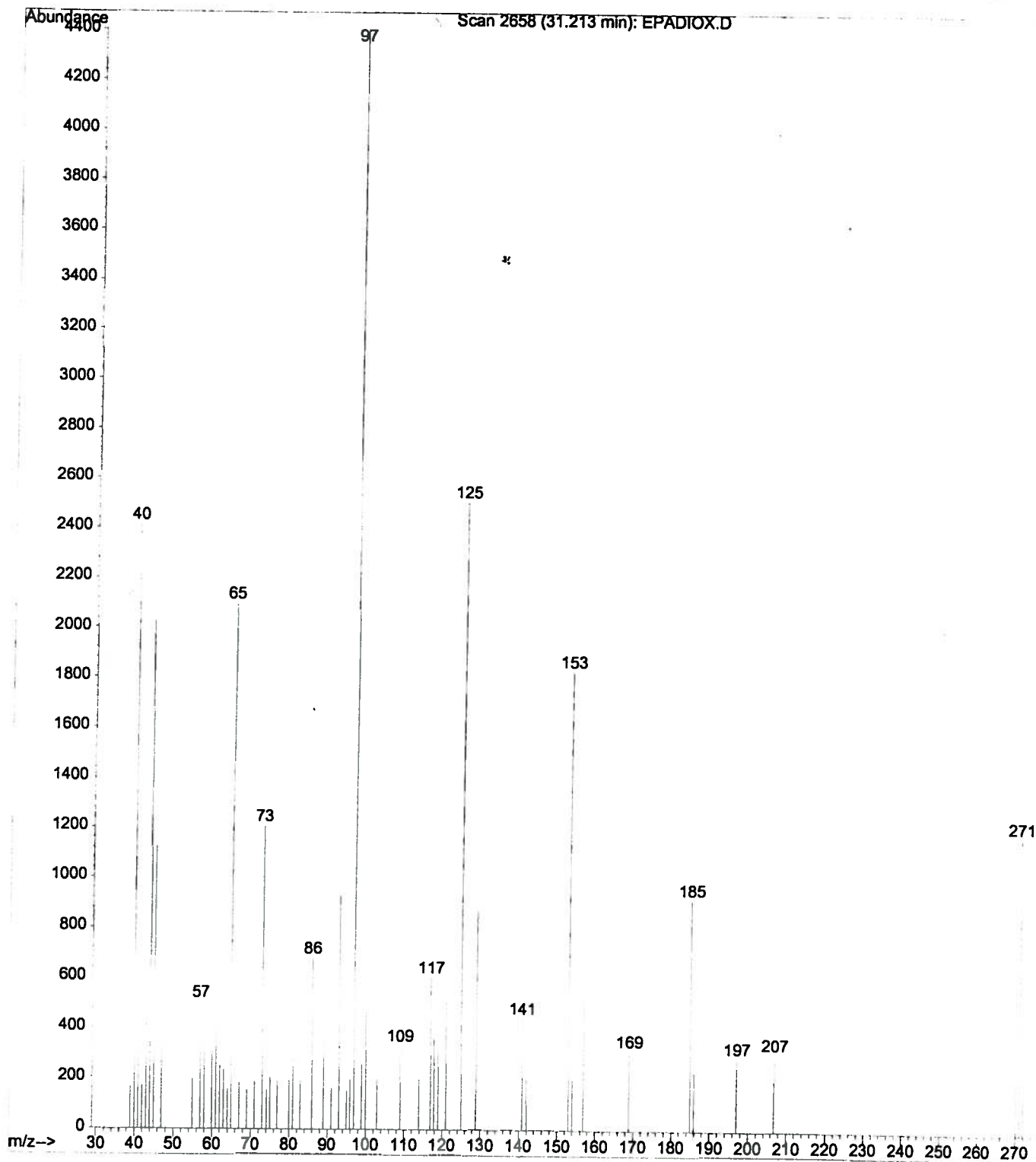
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Misc Info :
Vial Number: 25



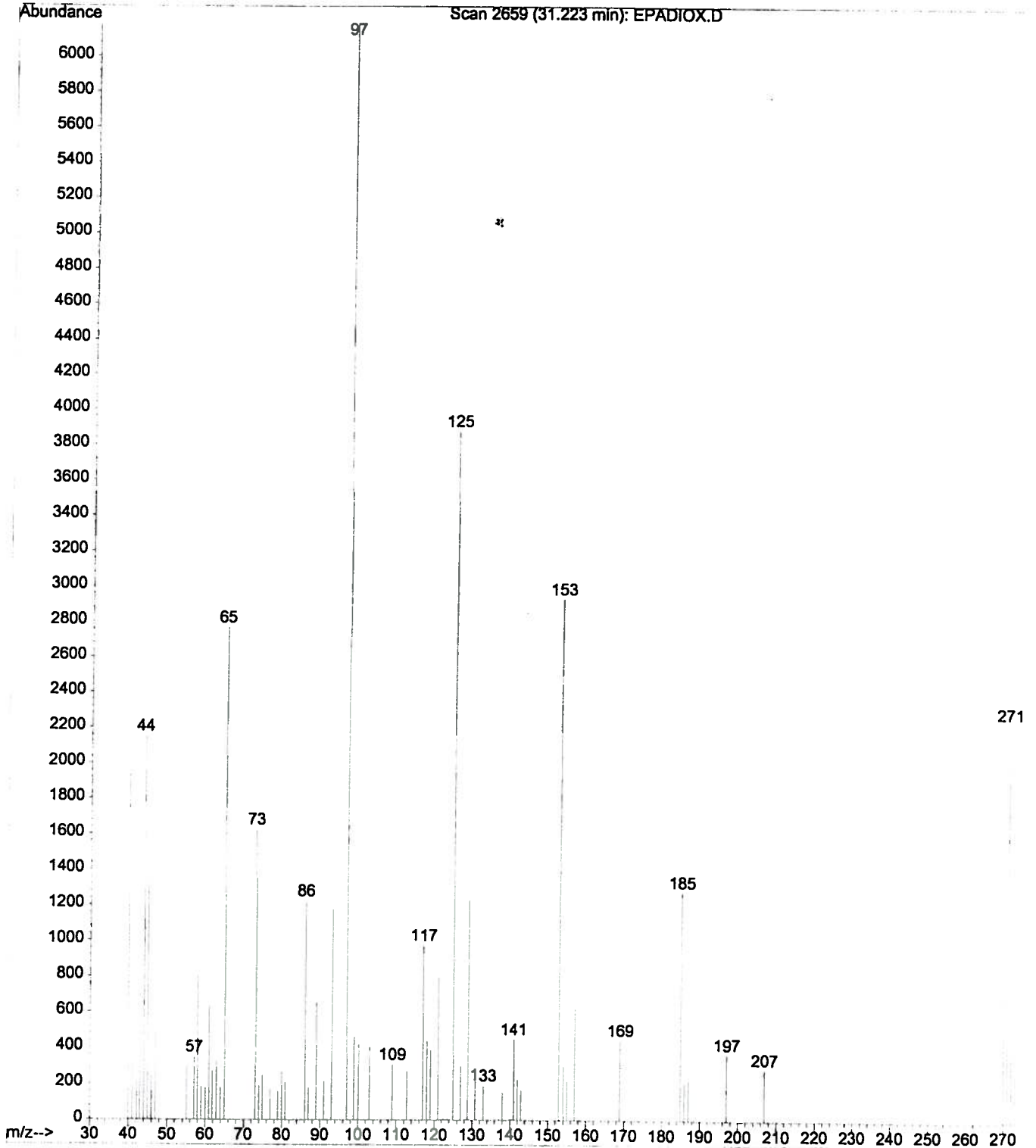
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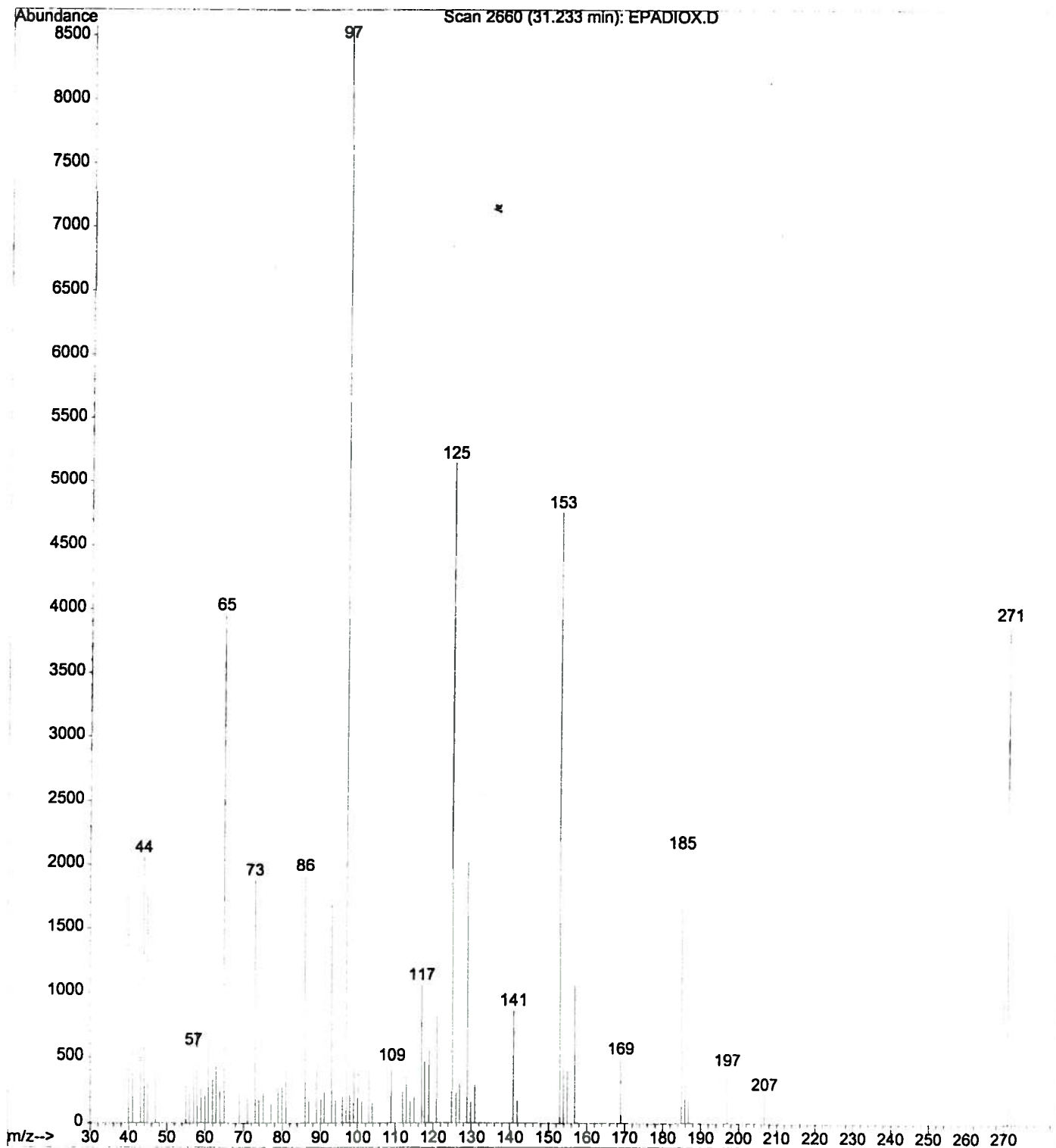
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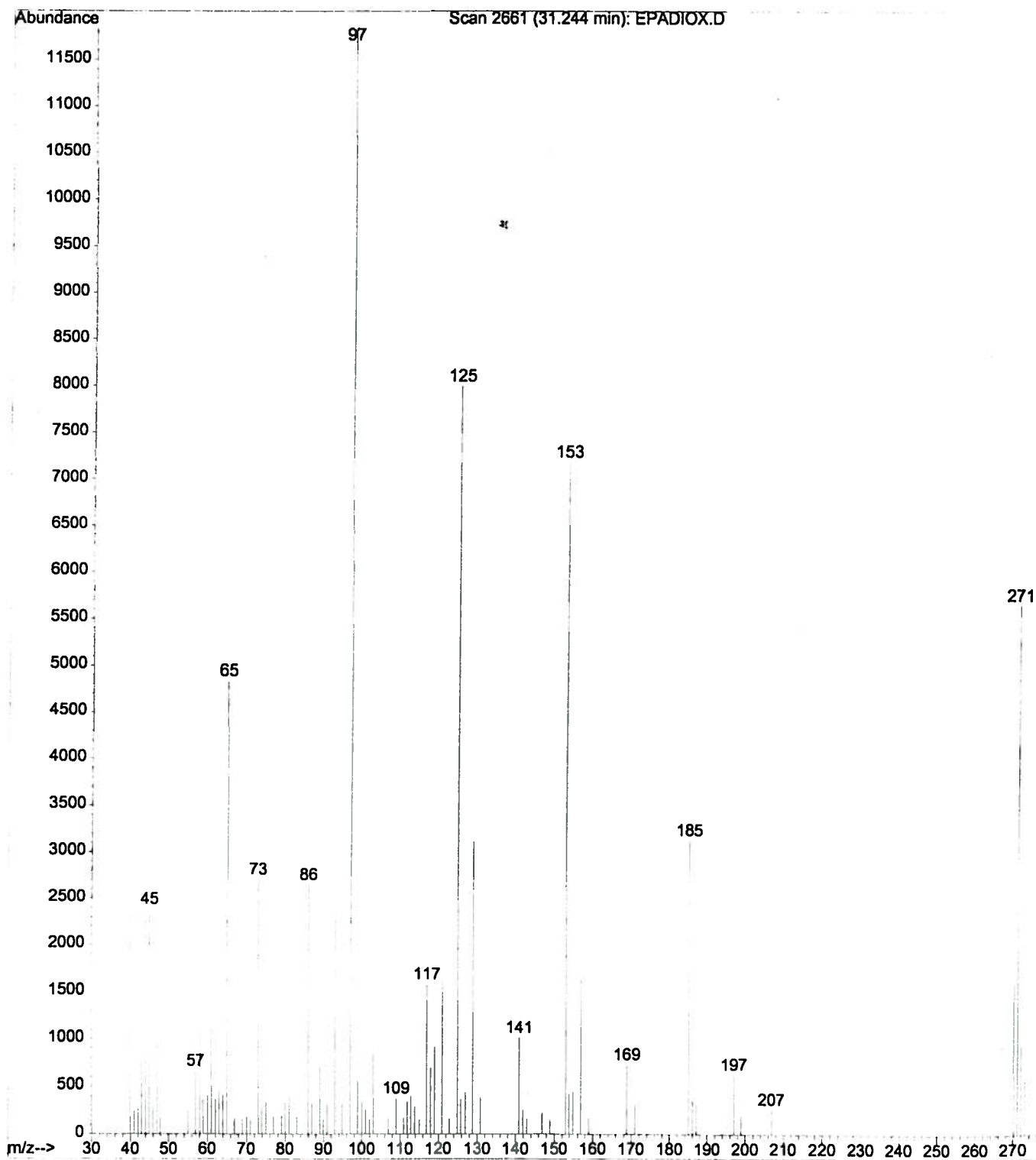
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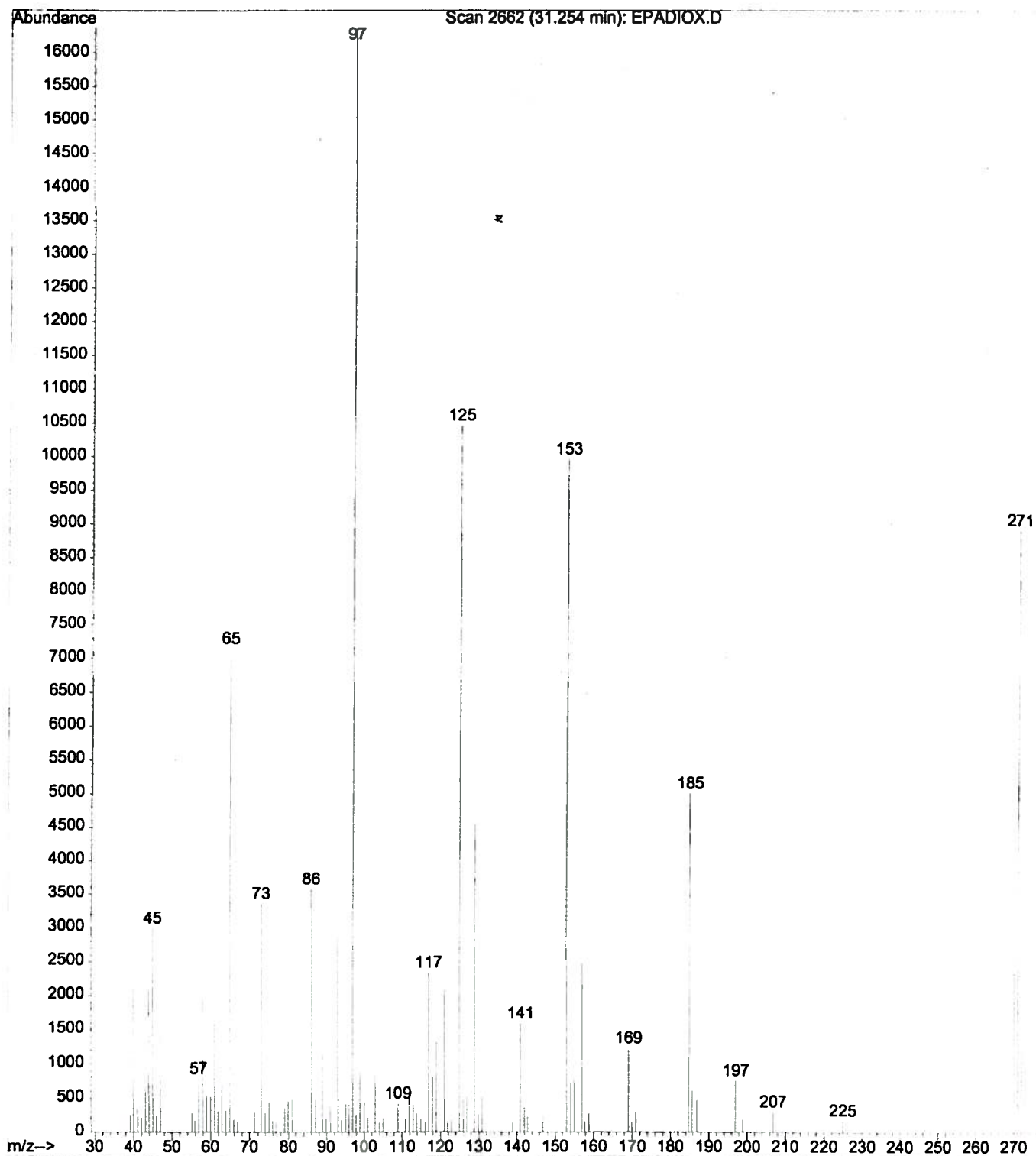
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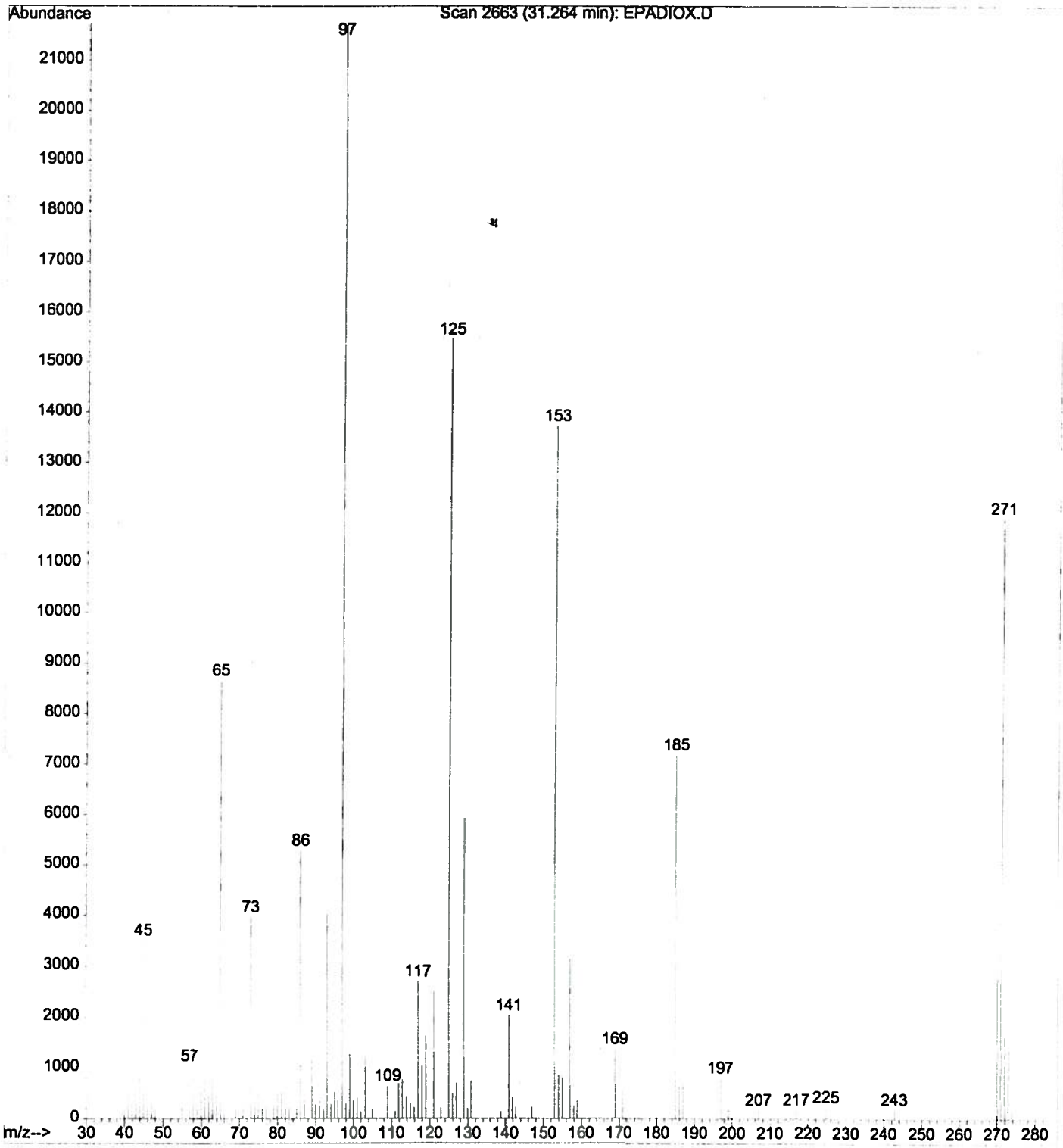
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Operator : jmr
Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



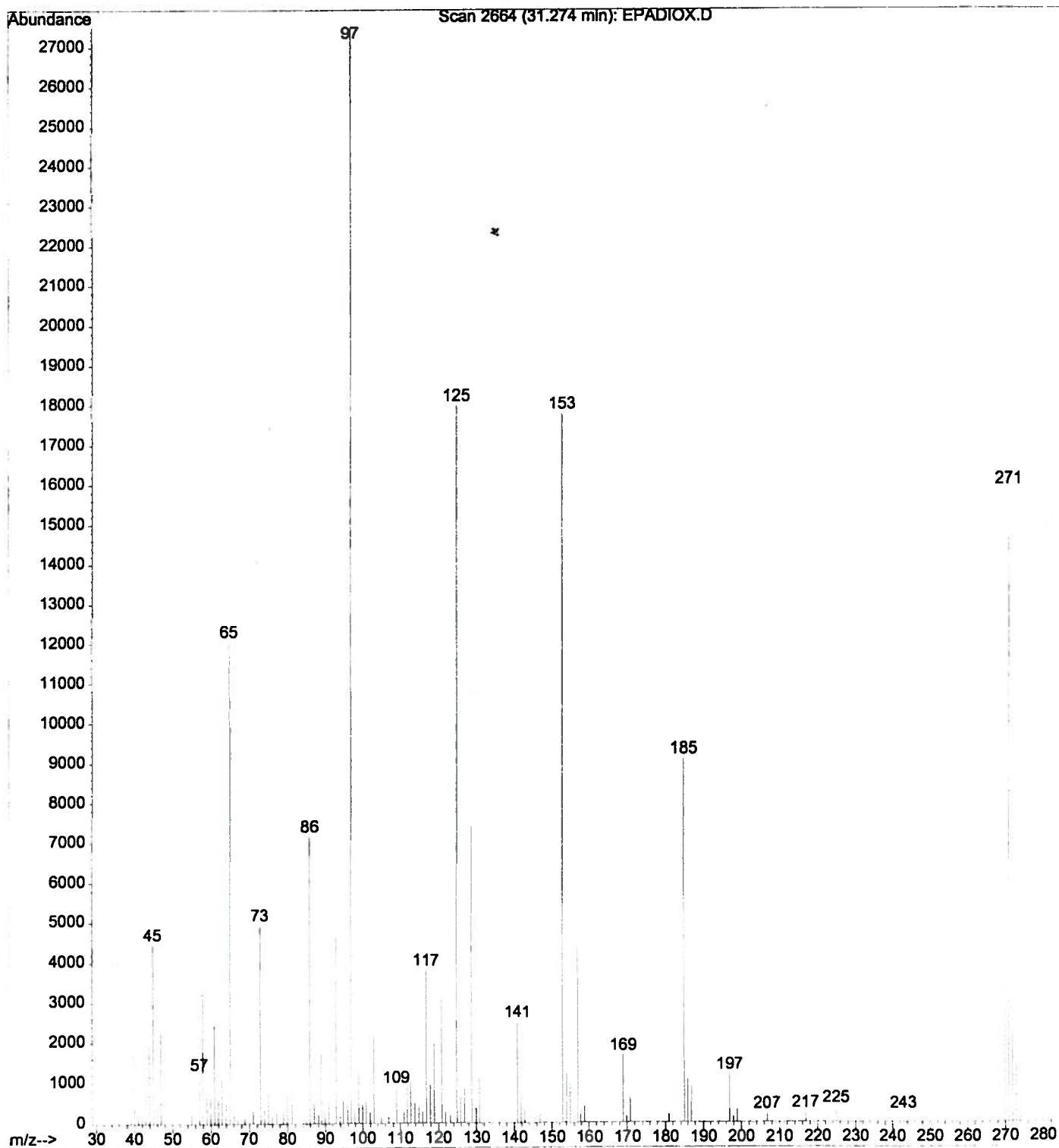
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Operator : jmr
Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



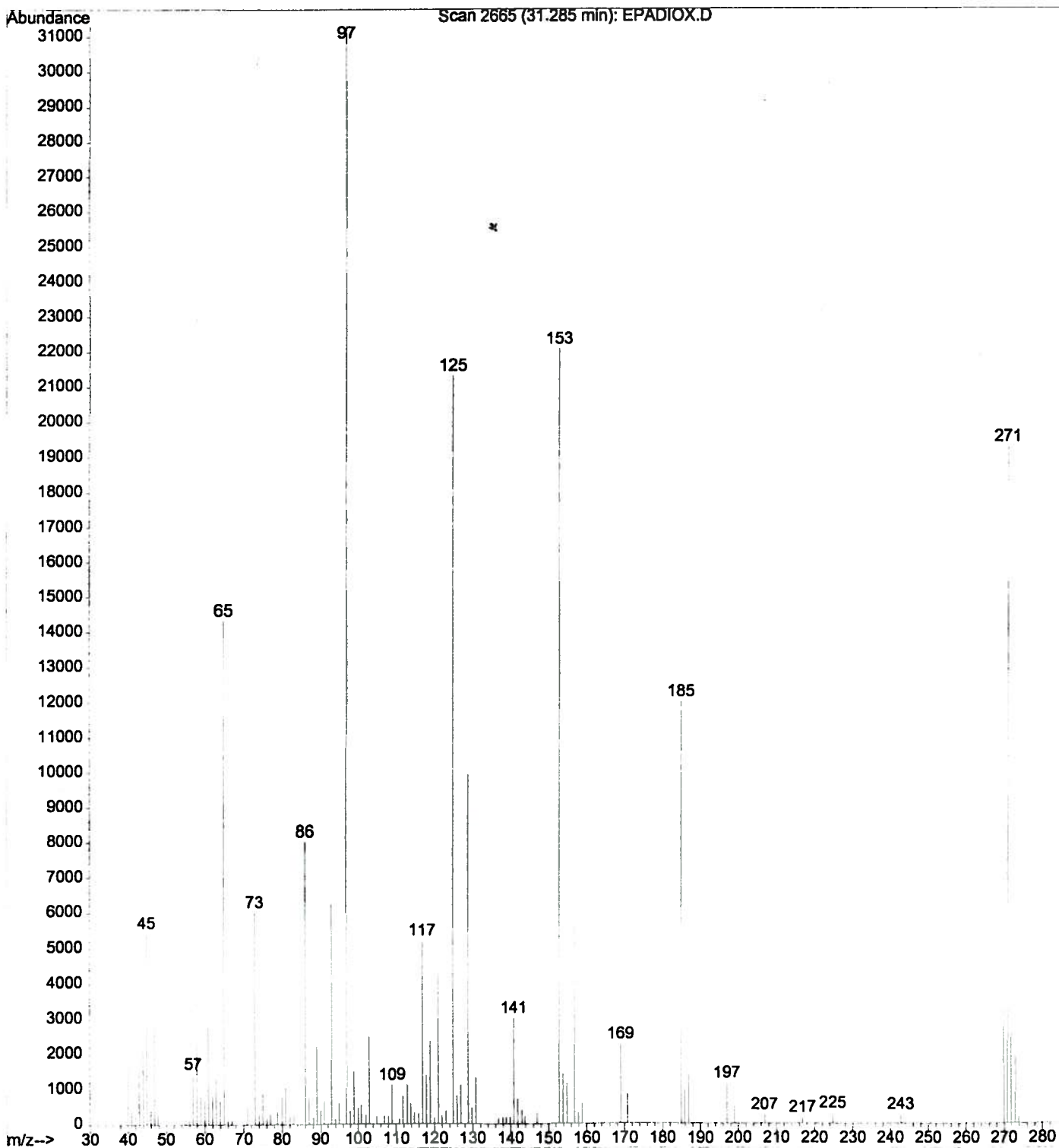
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Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



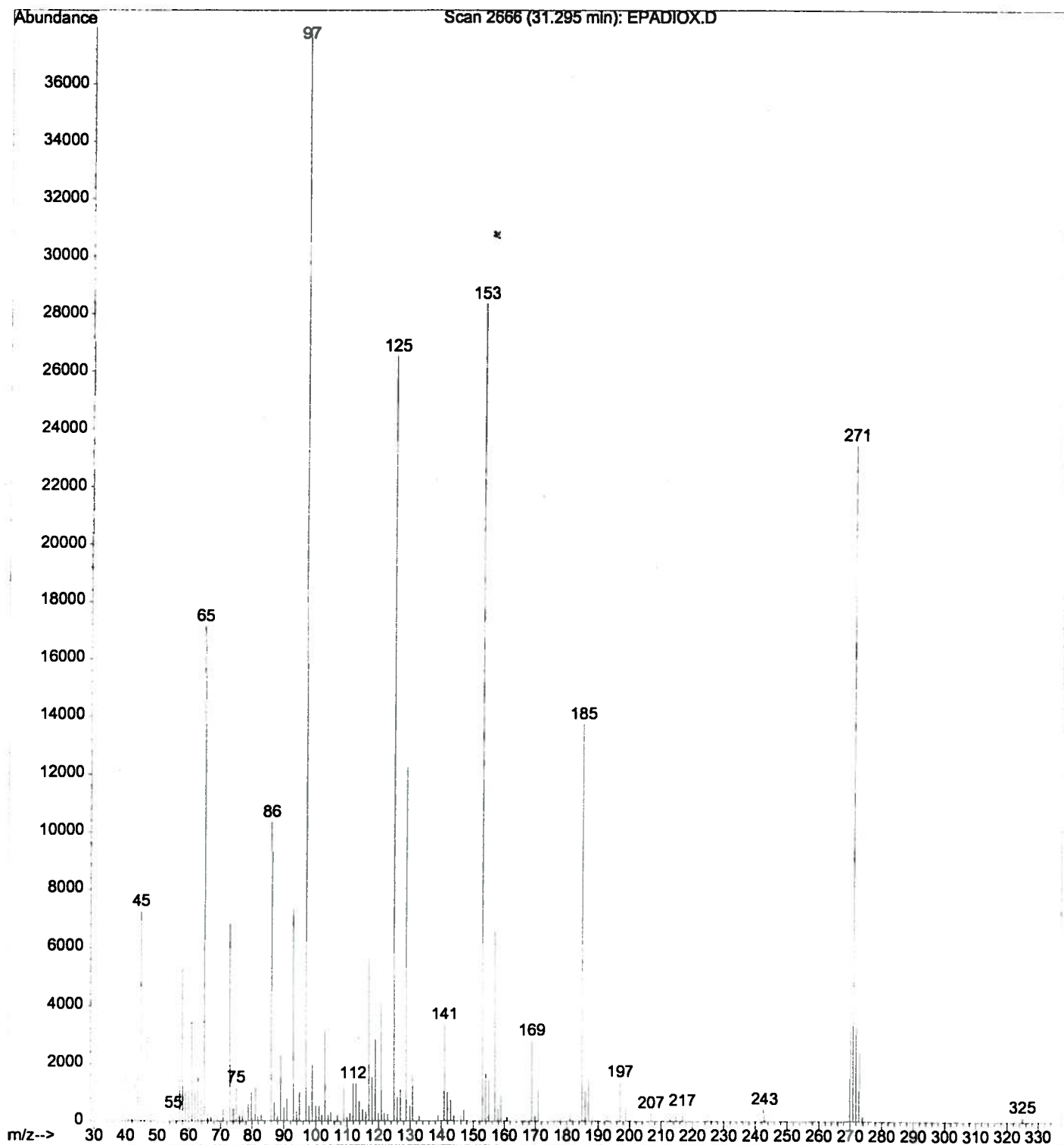
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Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



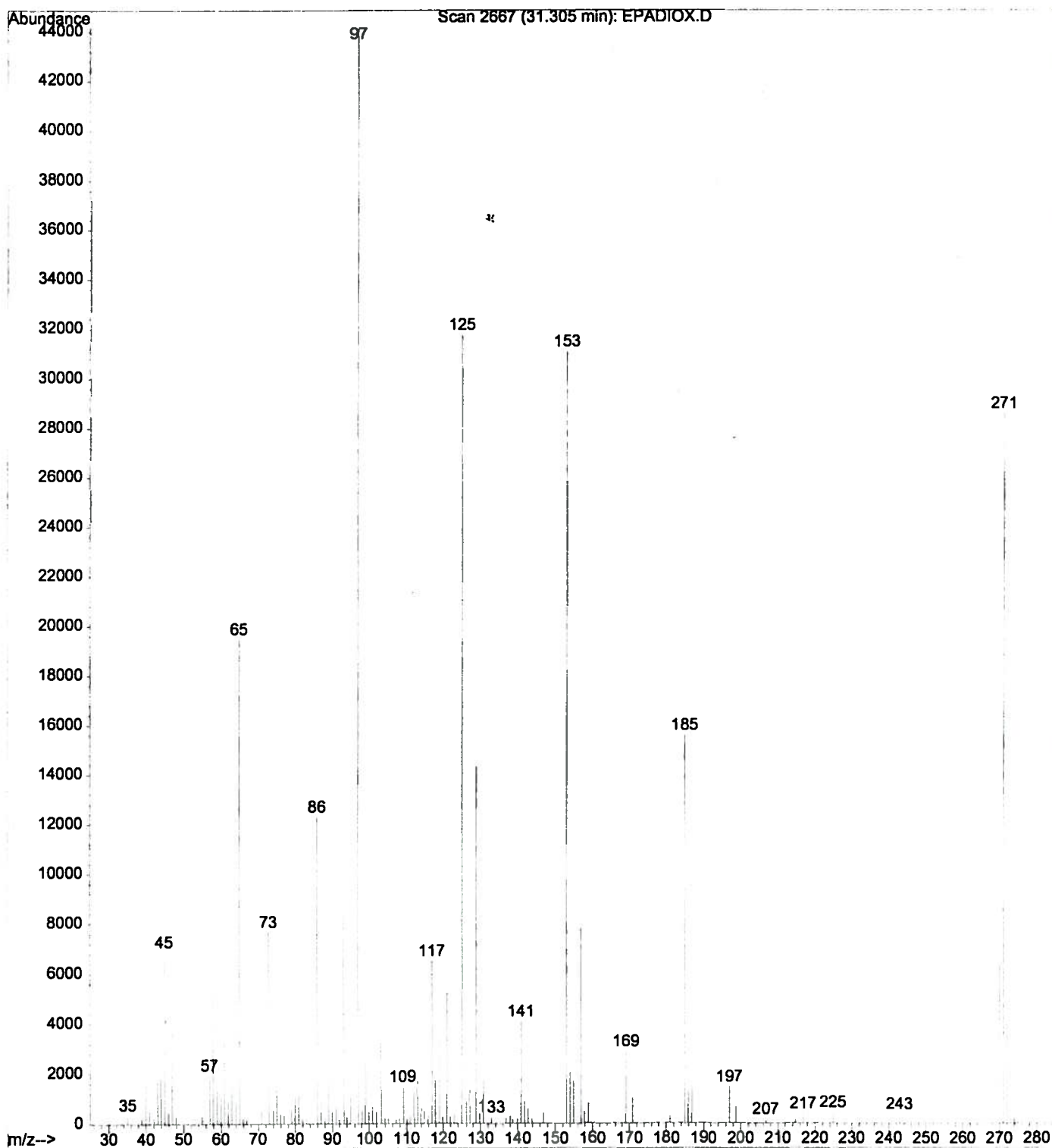
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Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



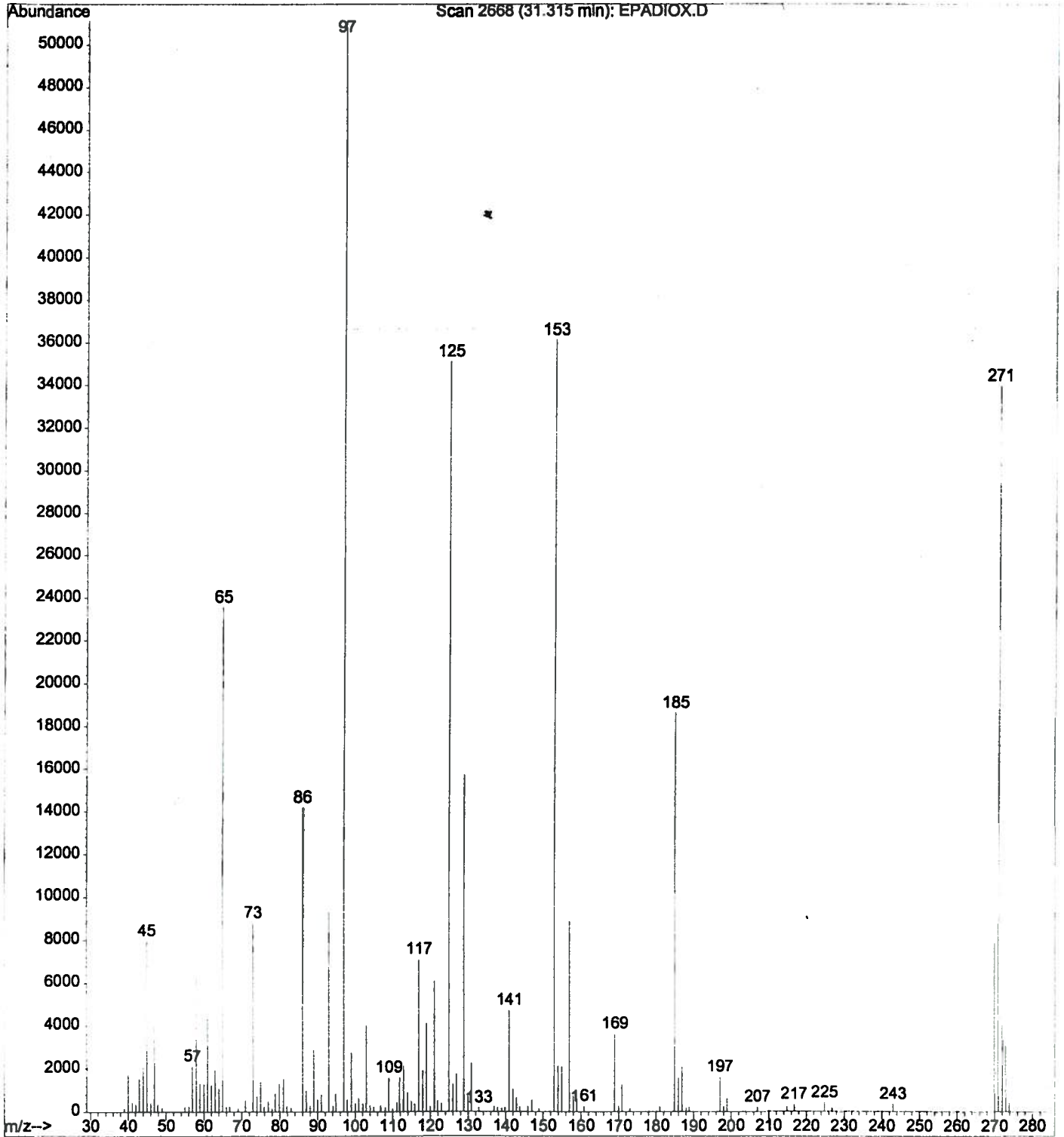
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Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



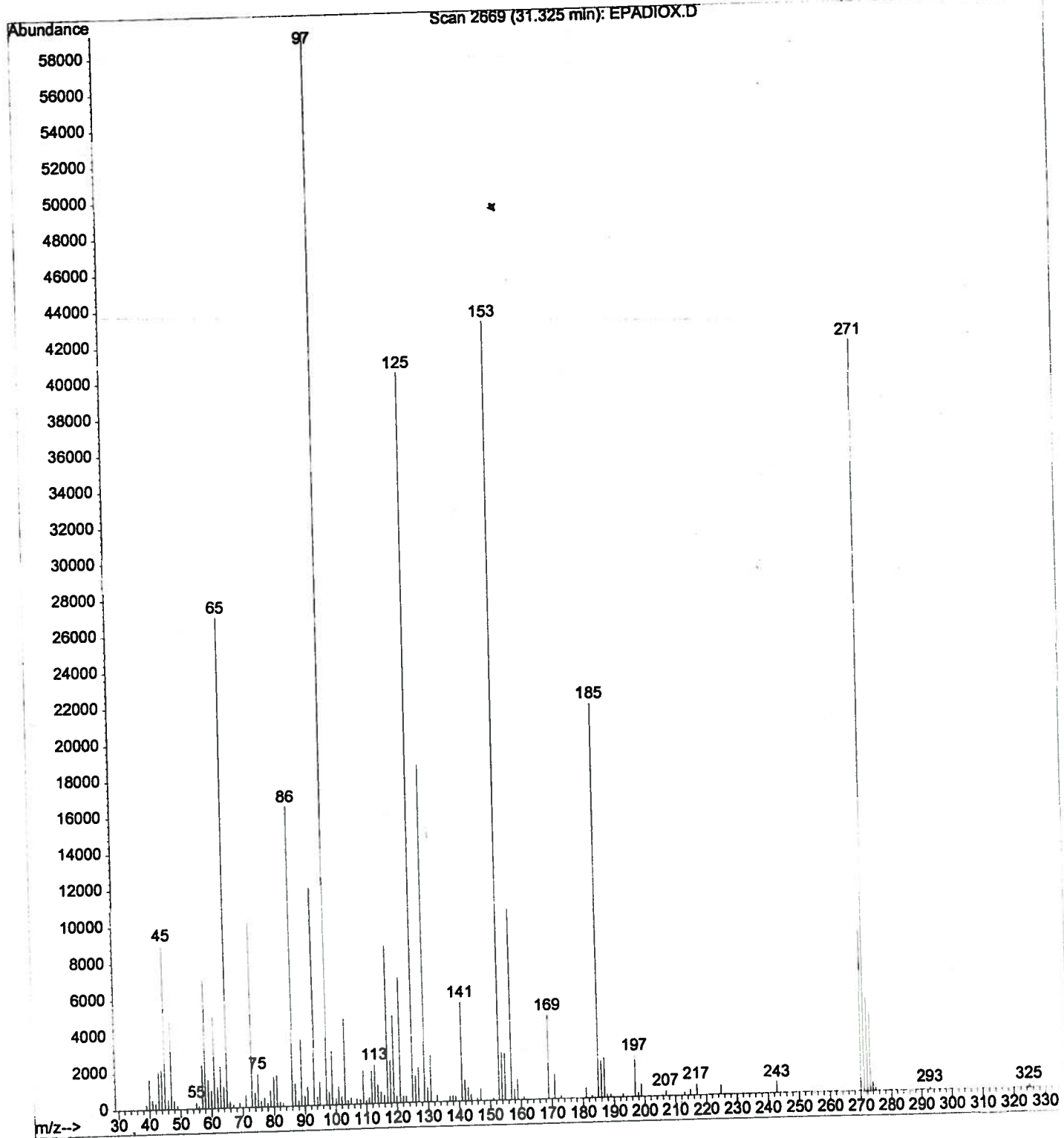
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Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



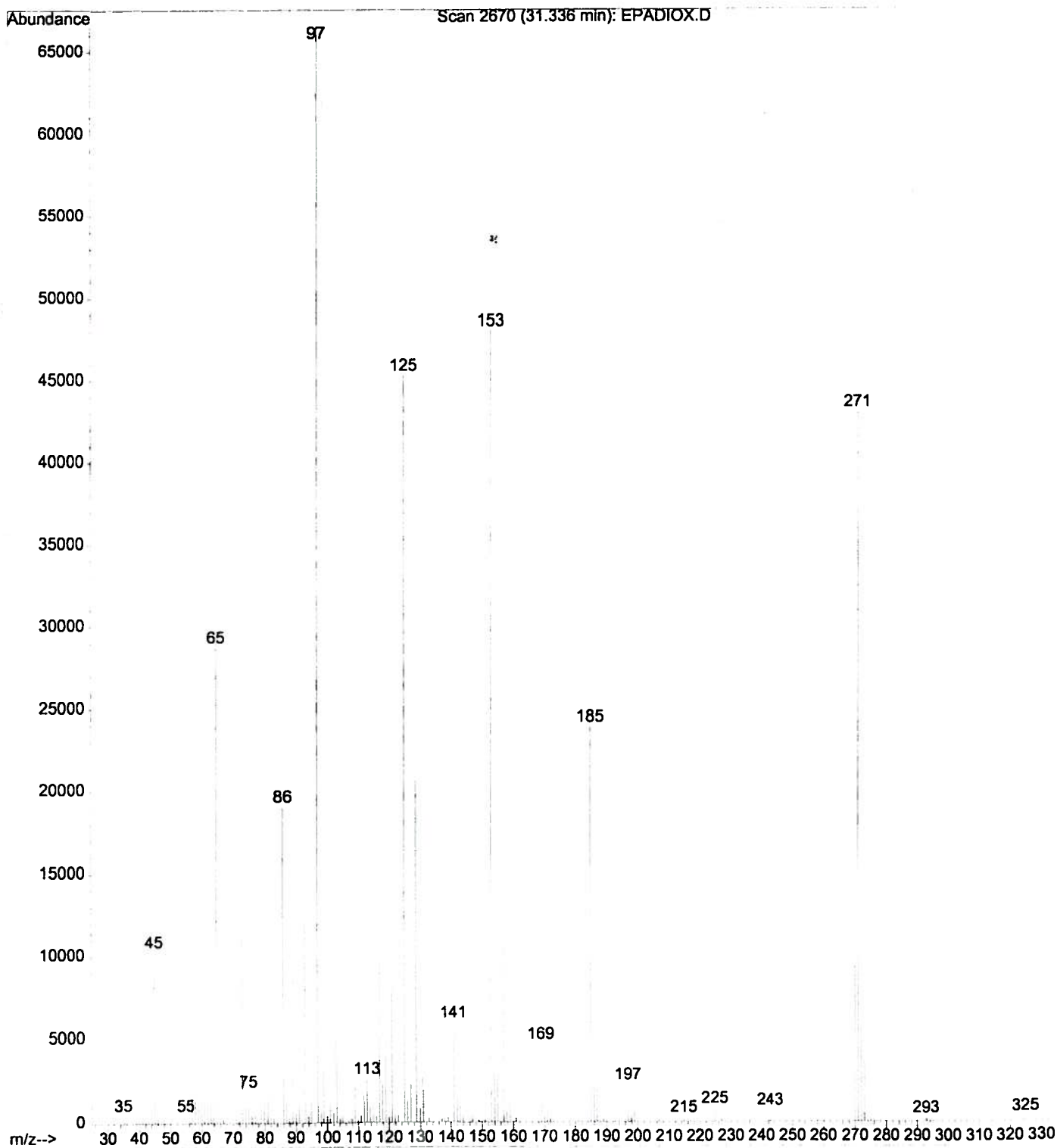
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Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



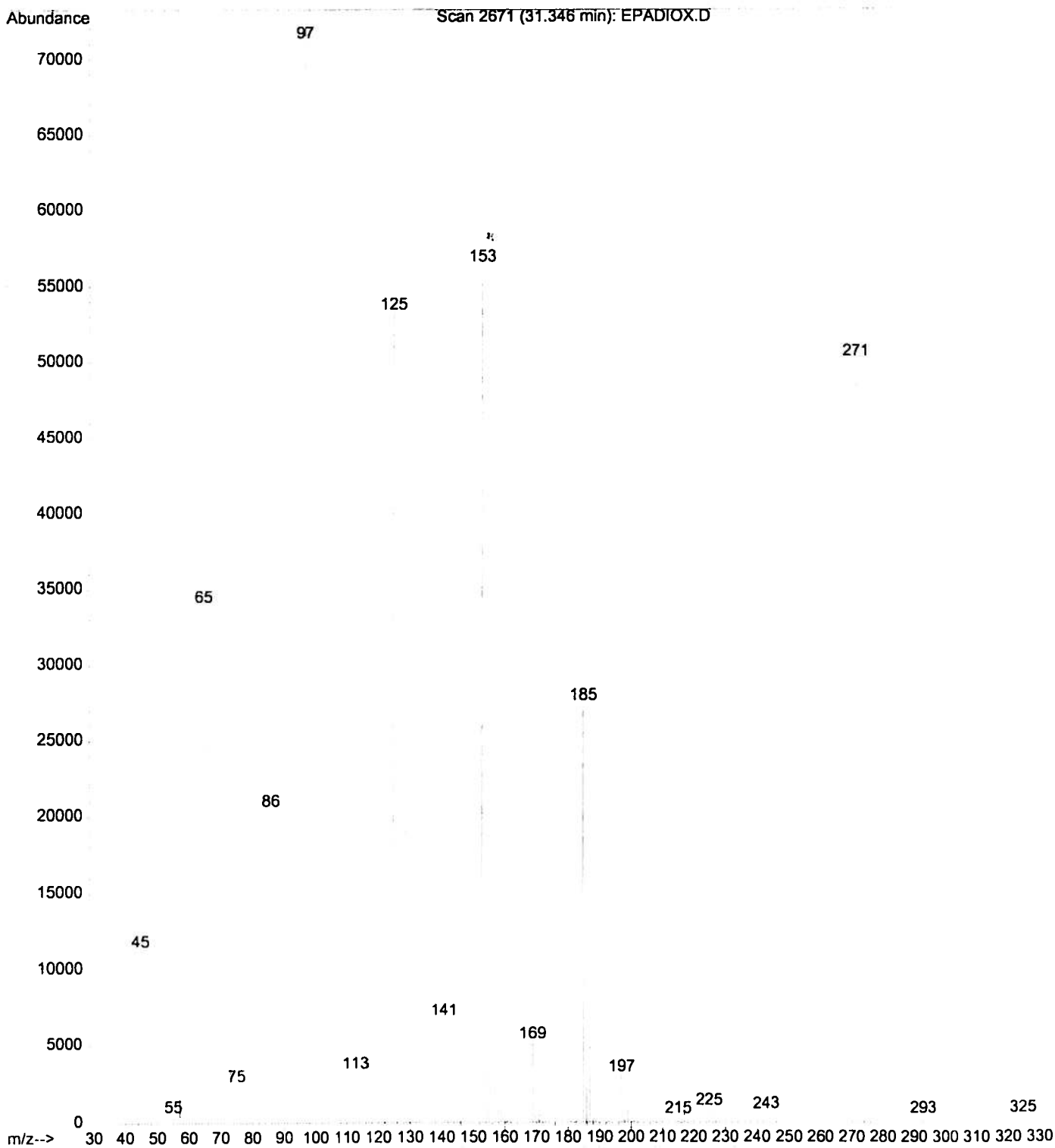
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Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



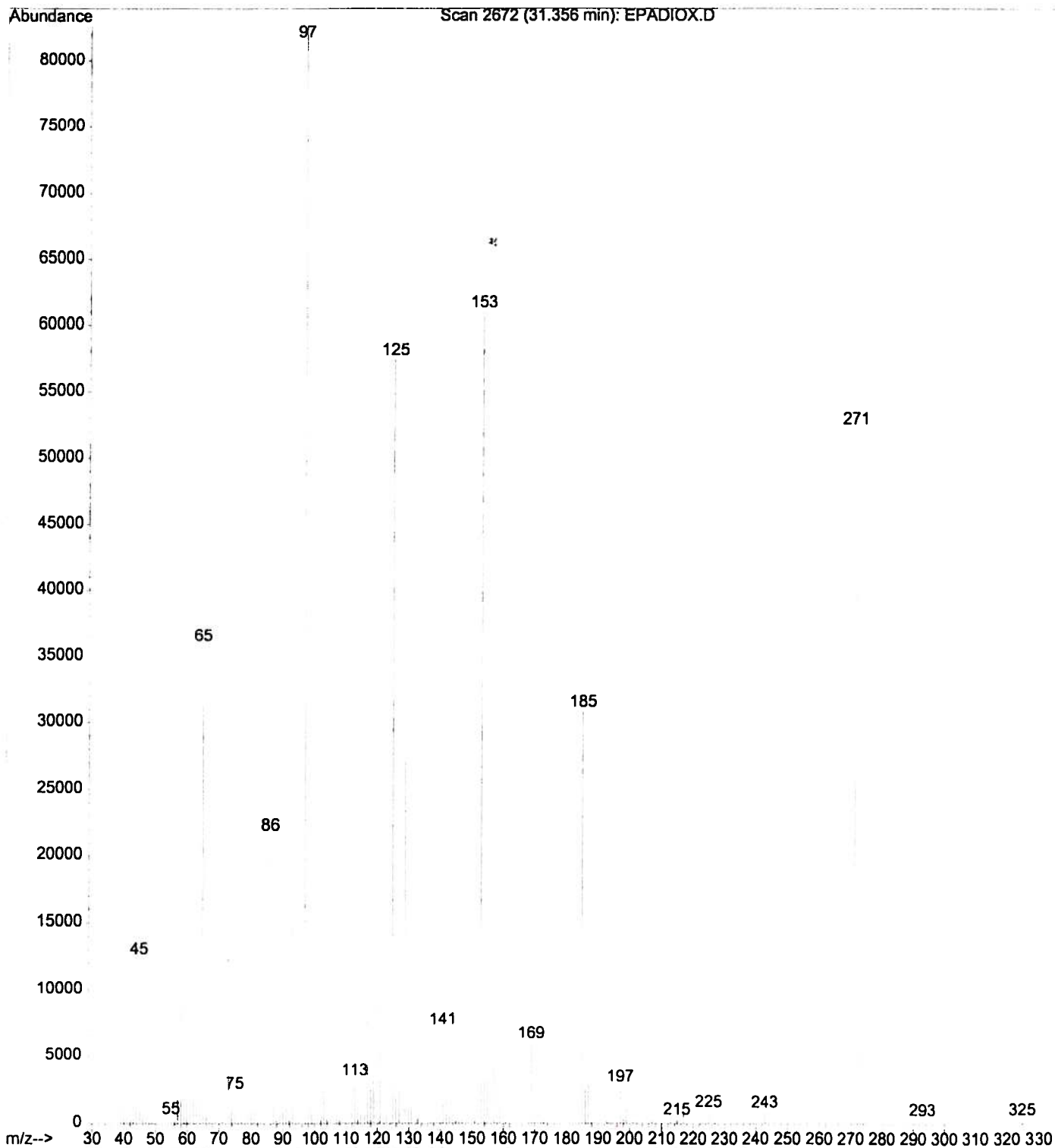
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Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



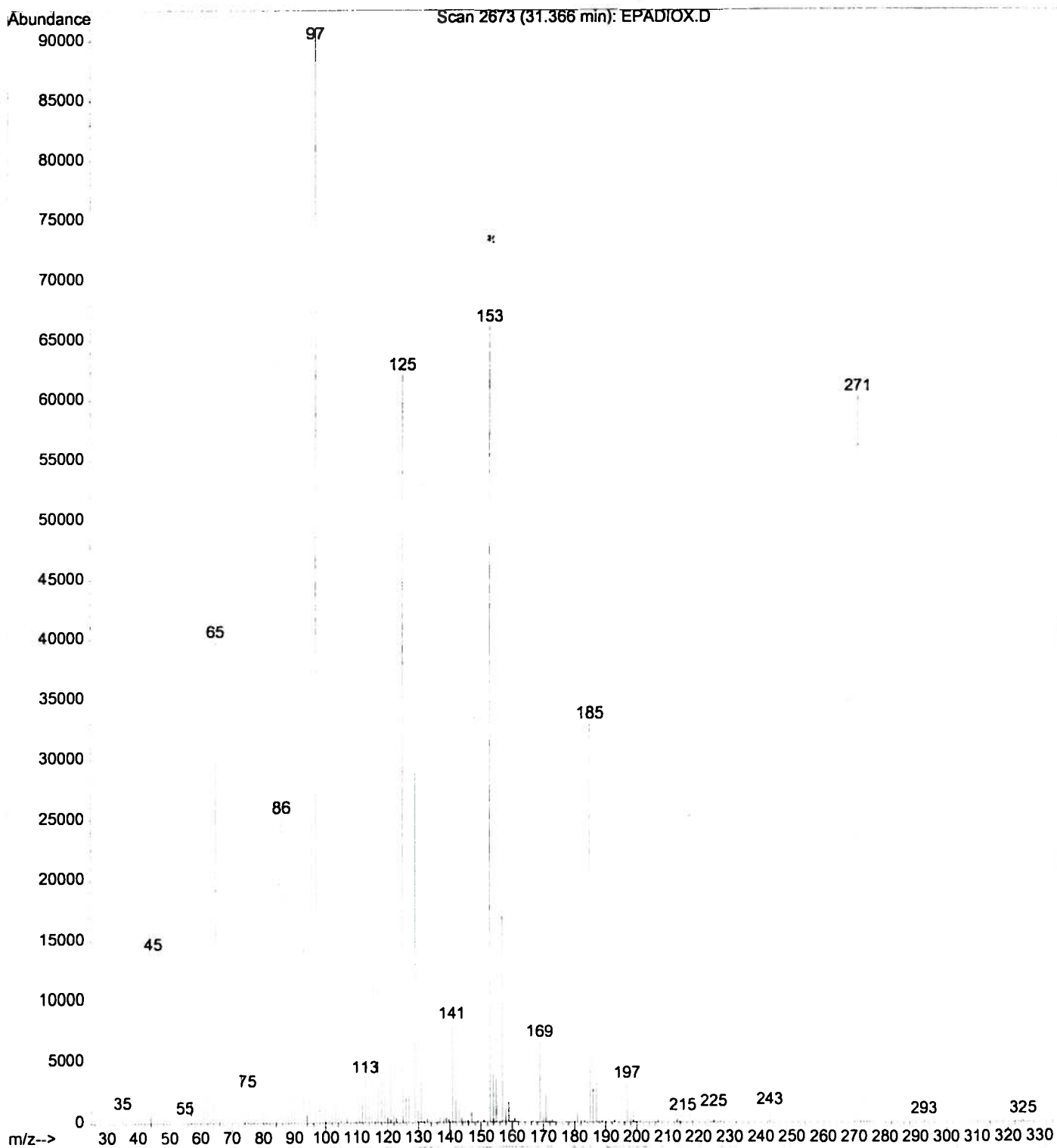
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Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



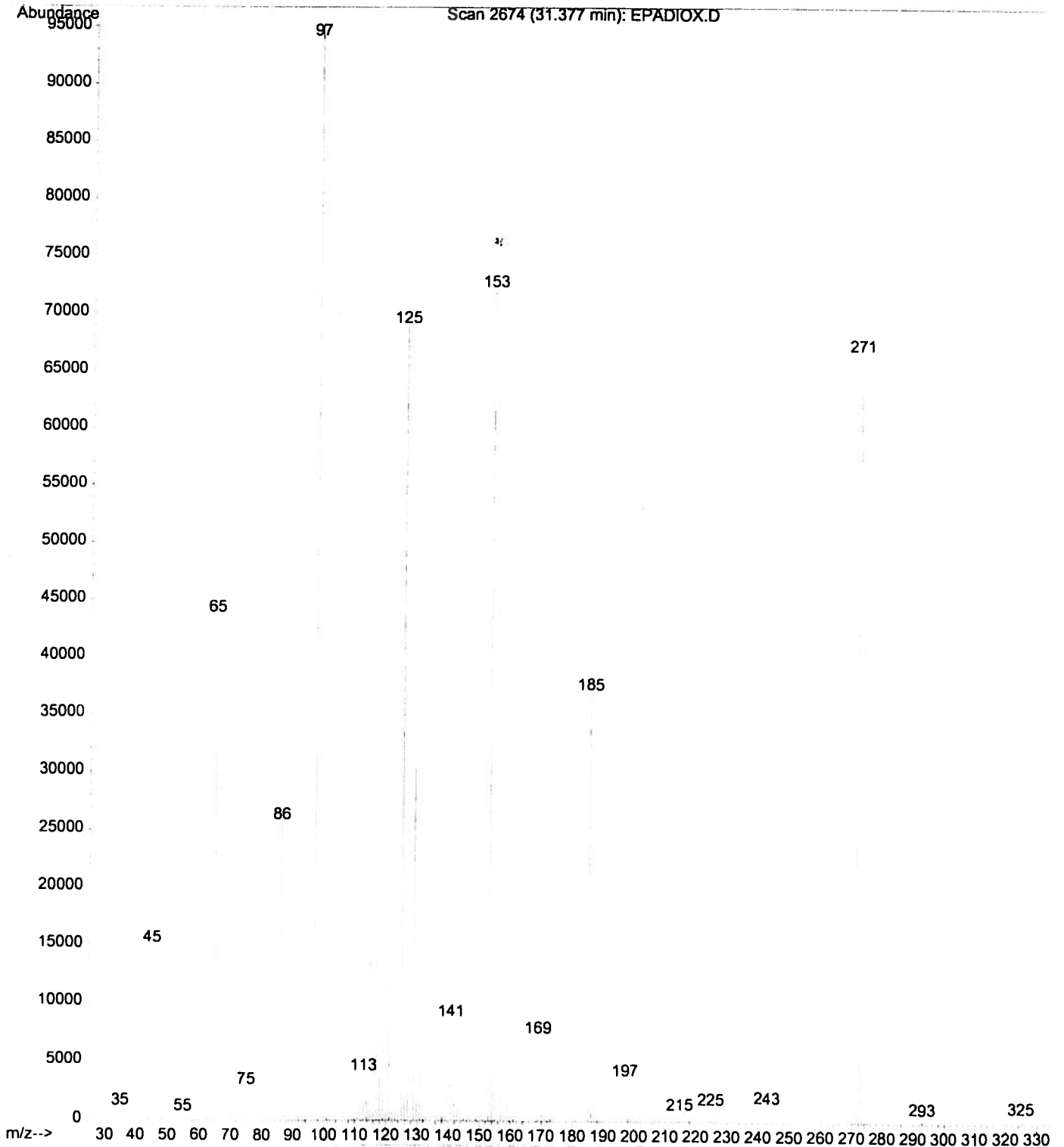
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Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



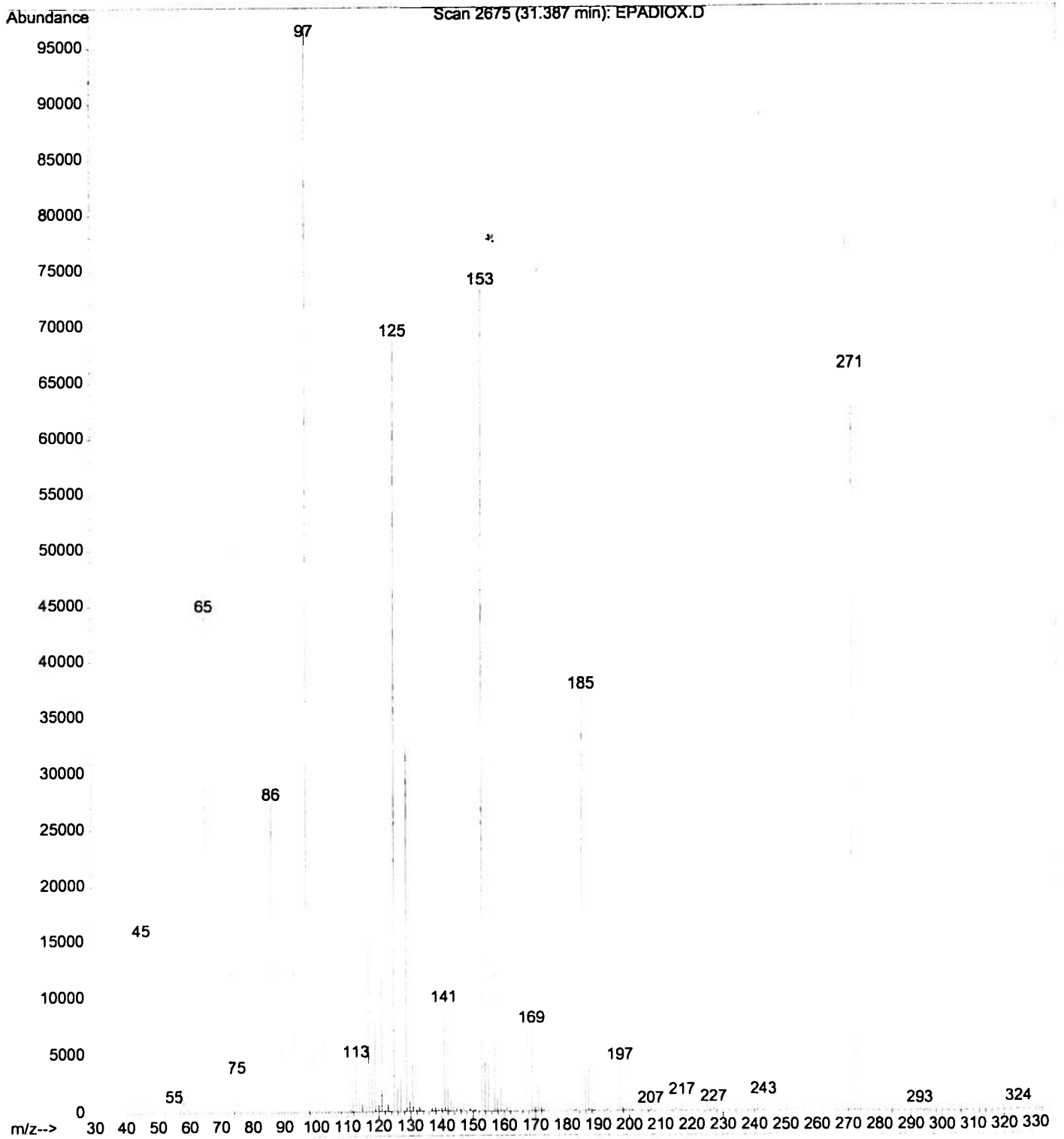
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Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



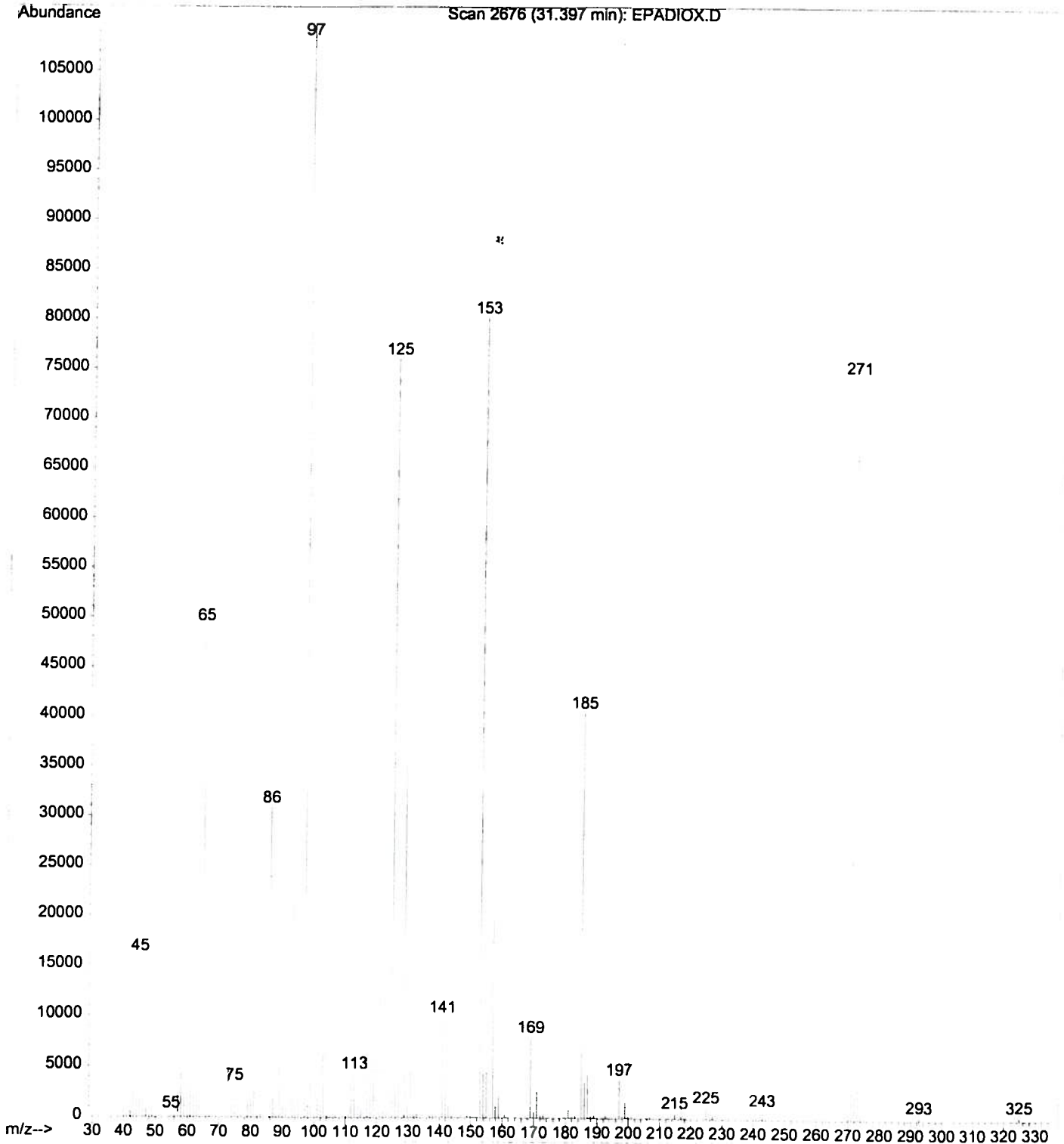
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Operator : jmr
Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



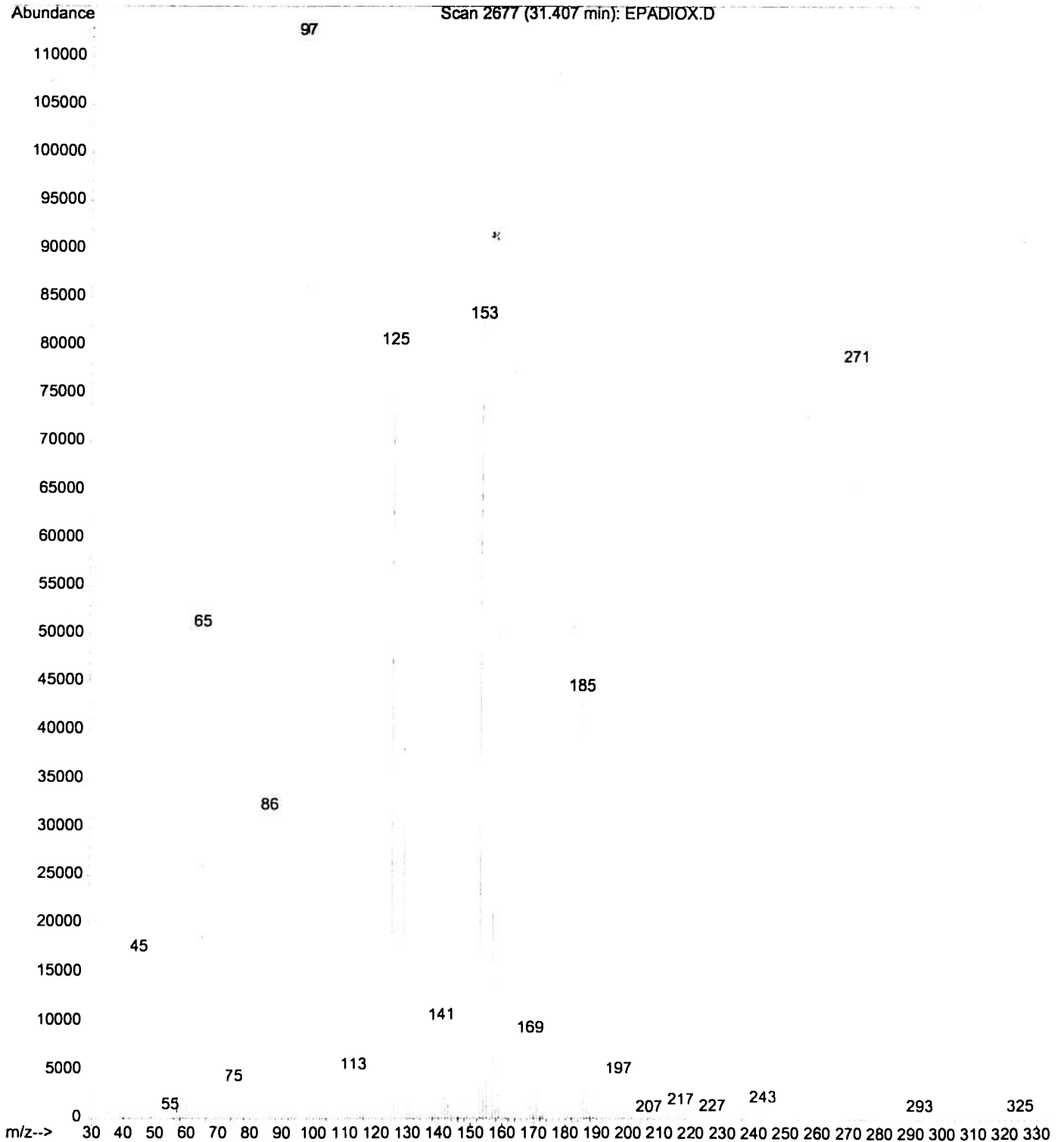
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Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



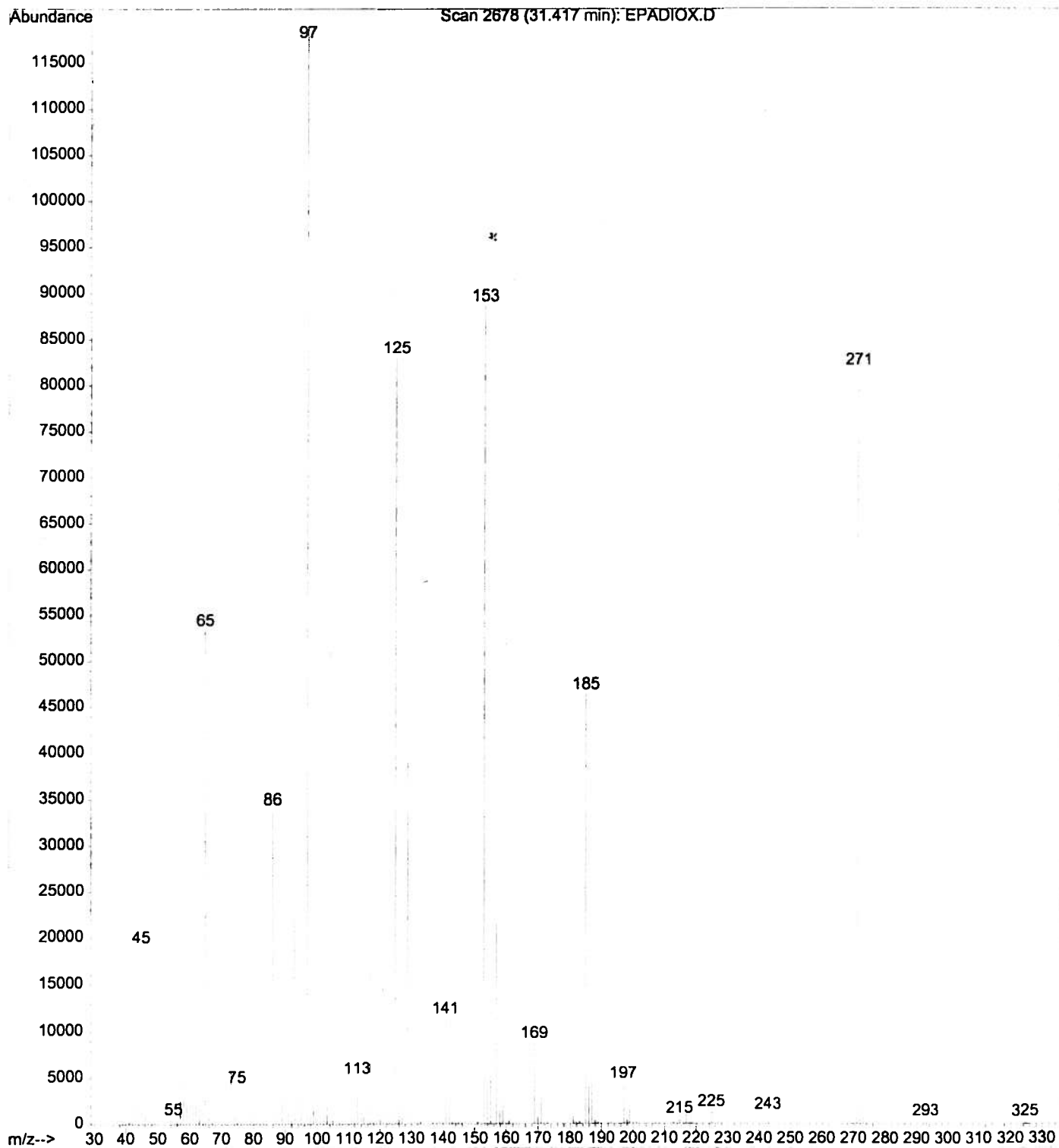
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Operator : jmr
Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



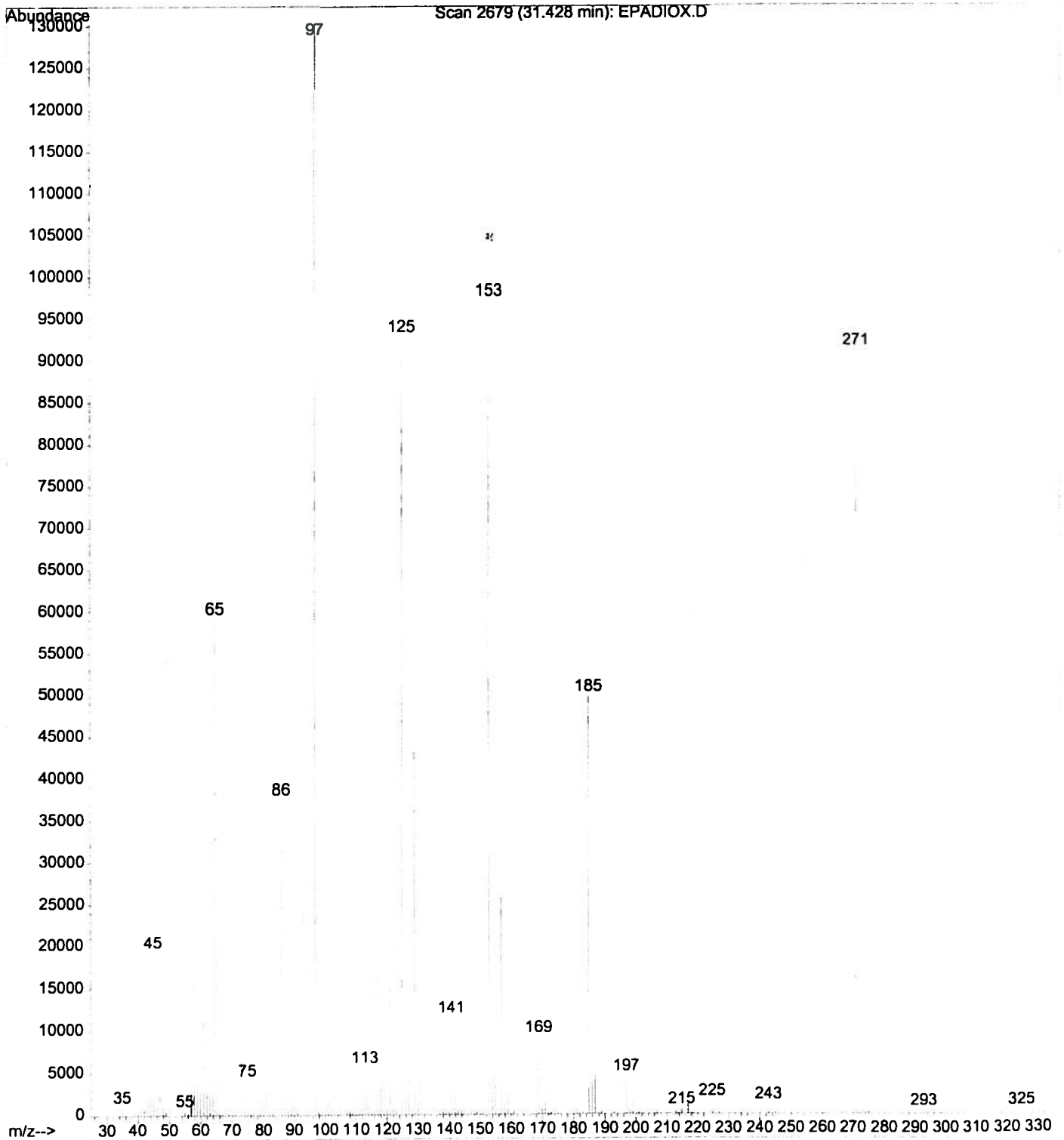
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Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



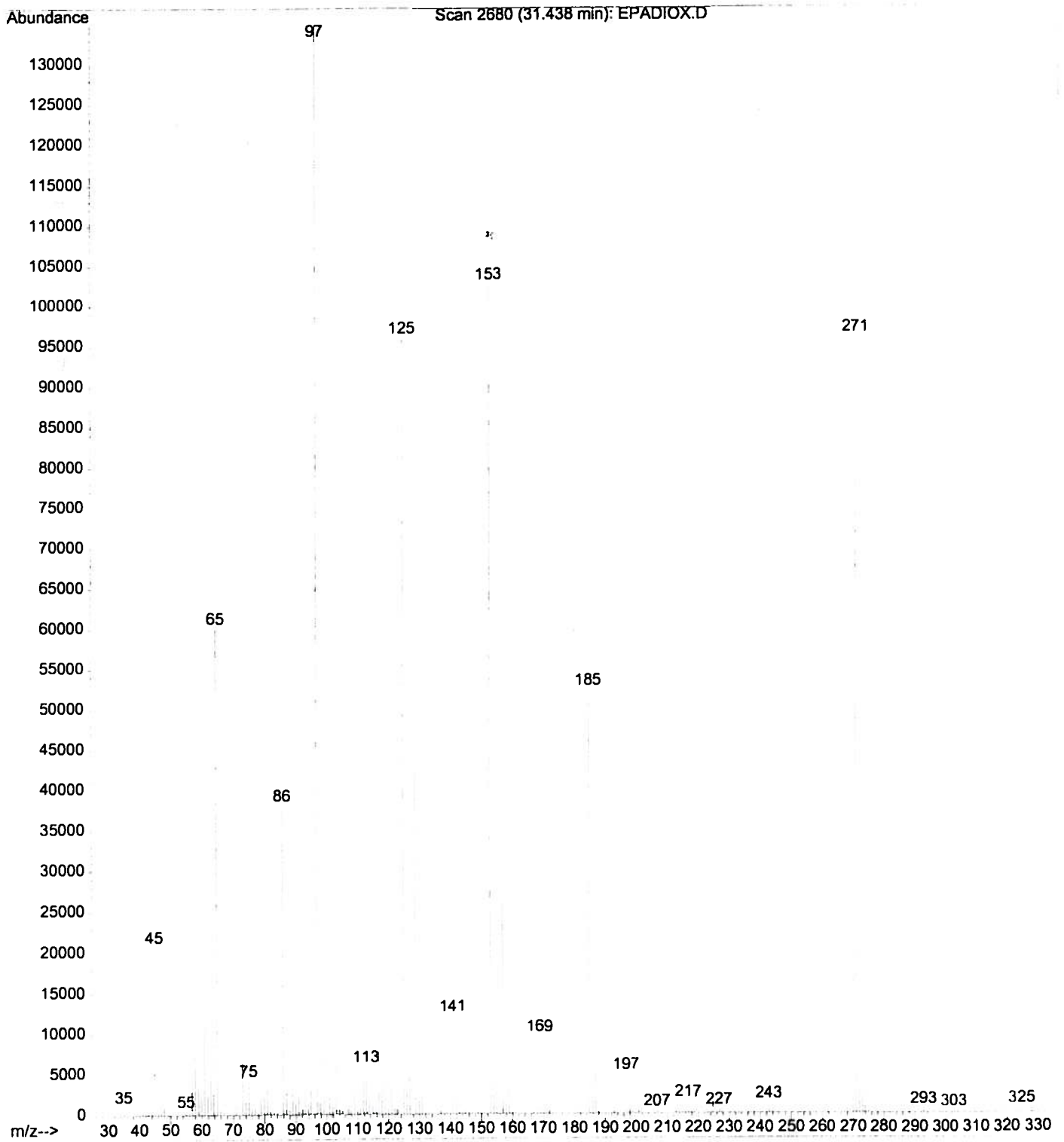
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Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



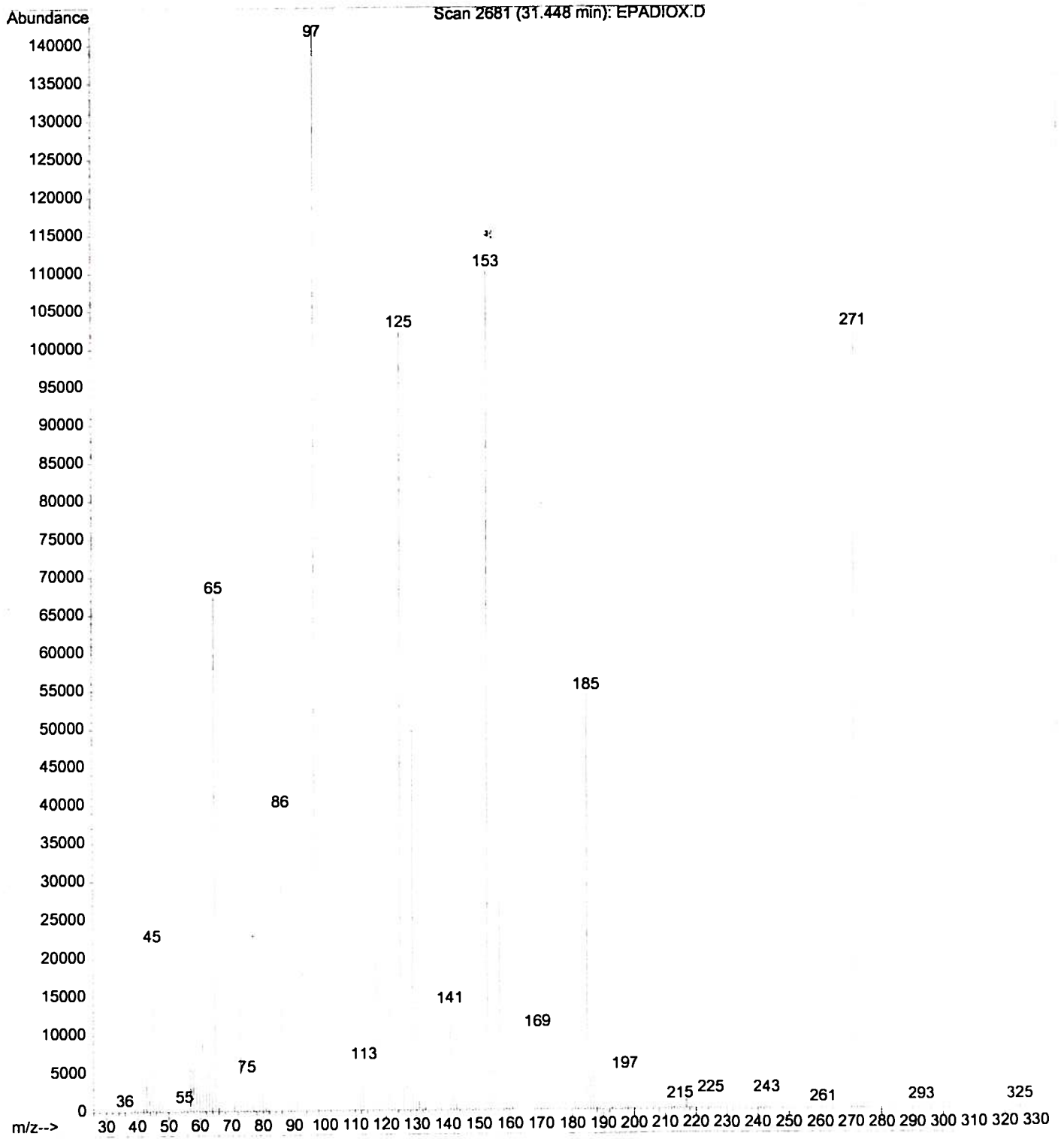
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Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



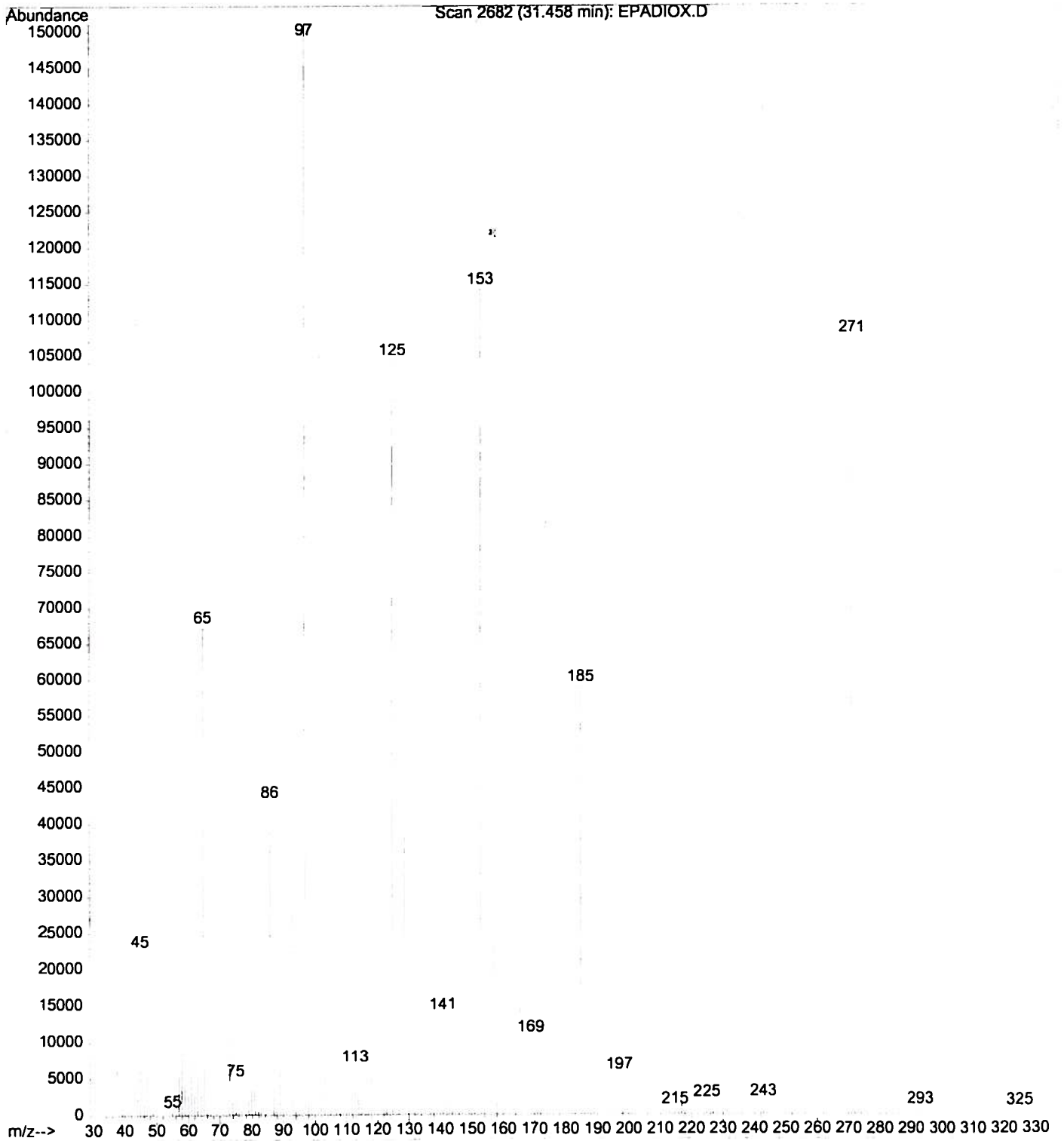
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Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



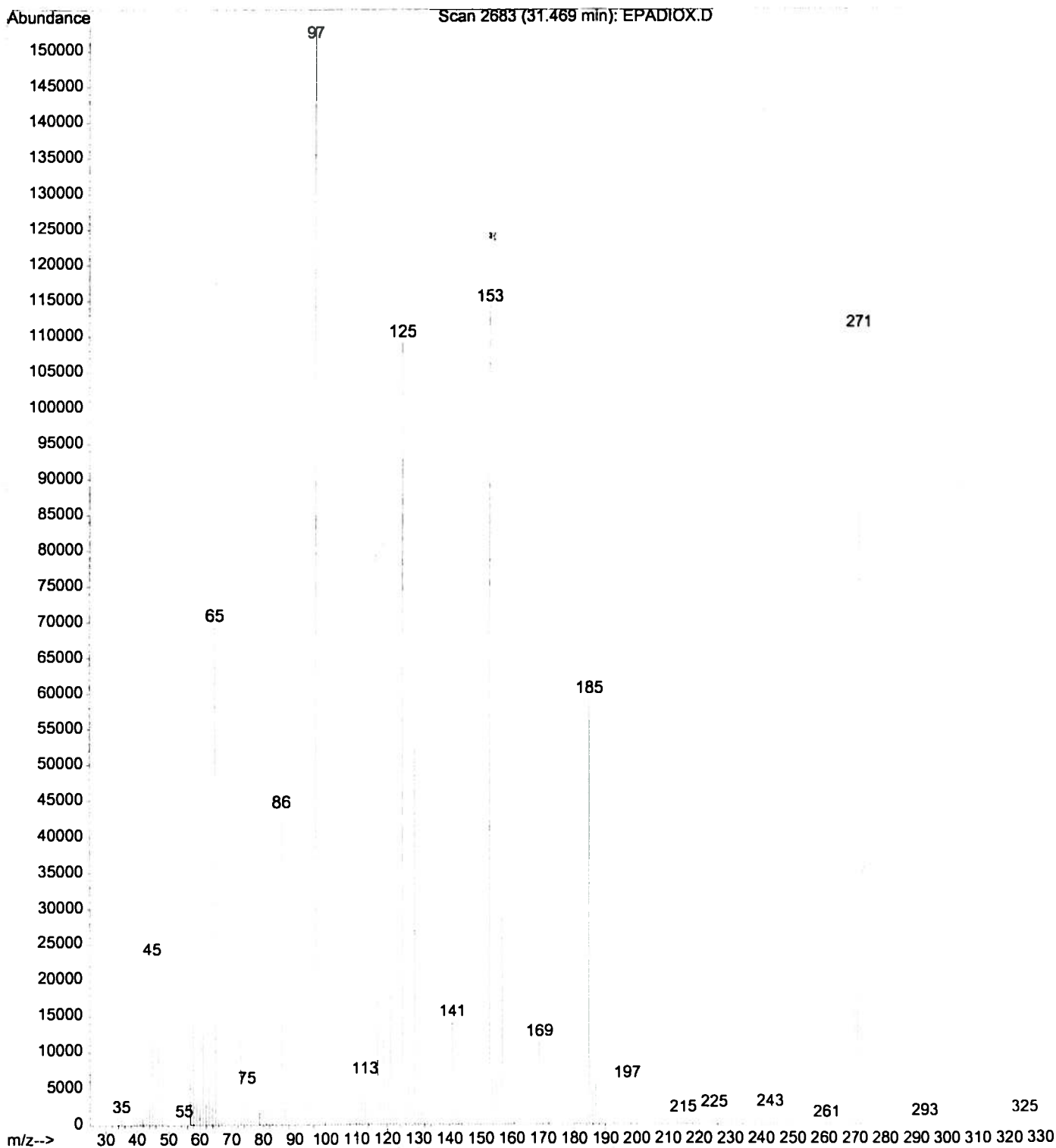
File : C:\HPCHEM\1\DATA\091499\EPADIOX.D
Operator : jmr
Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



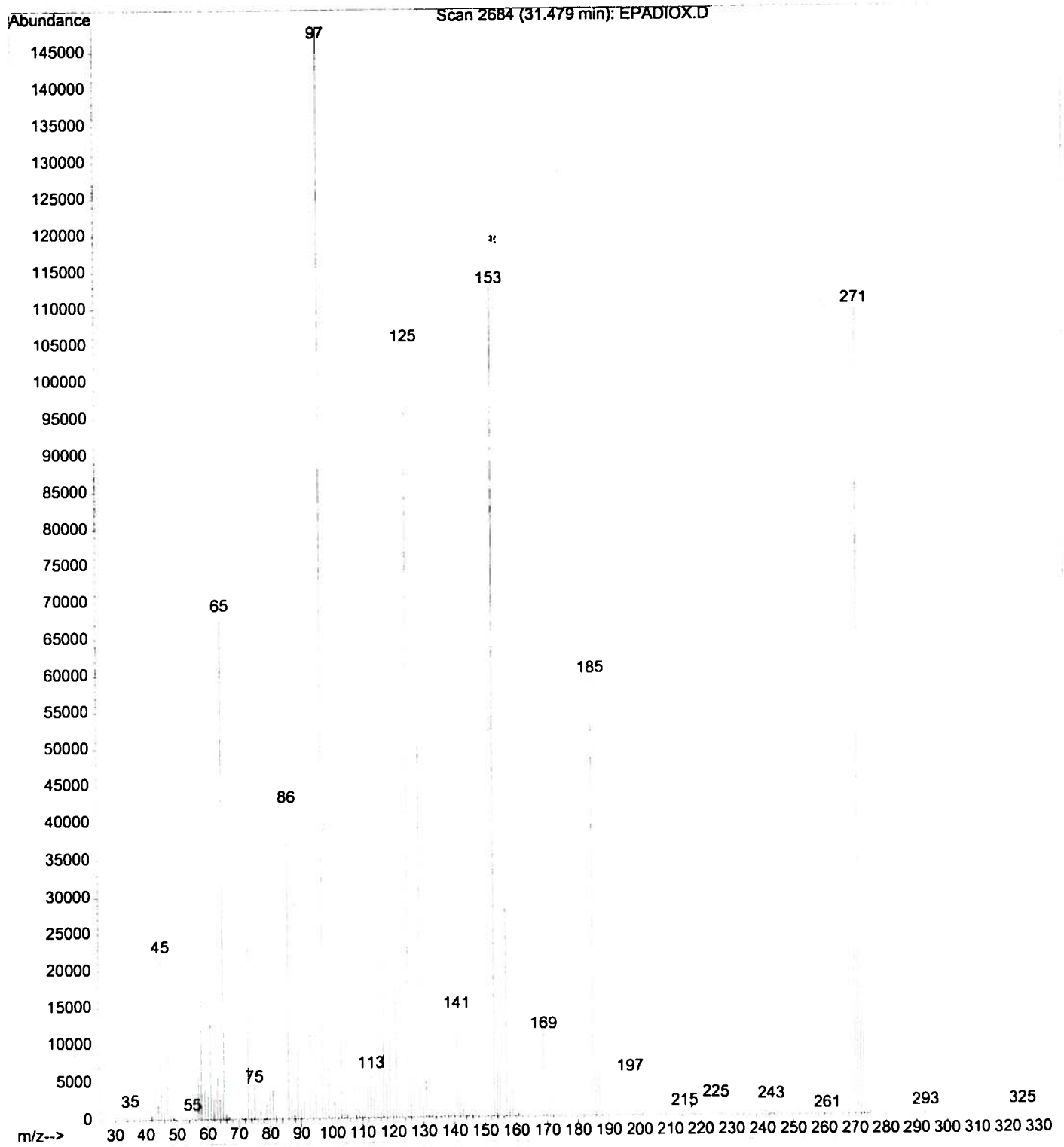
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Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



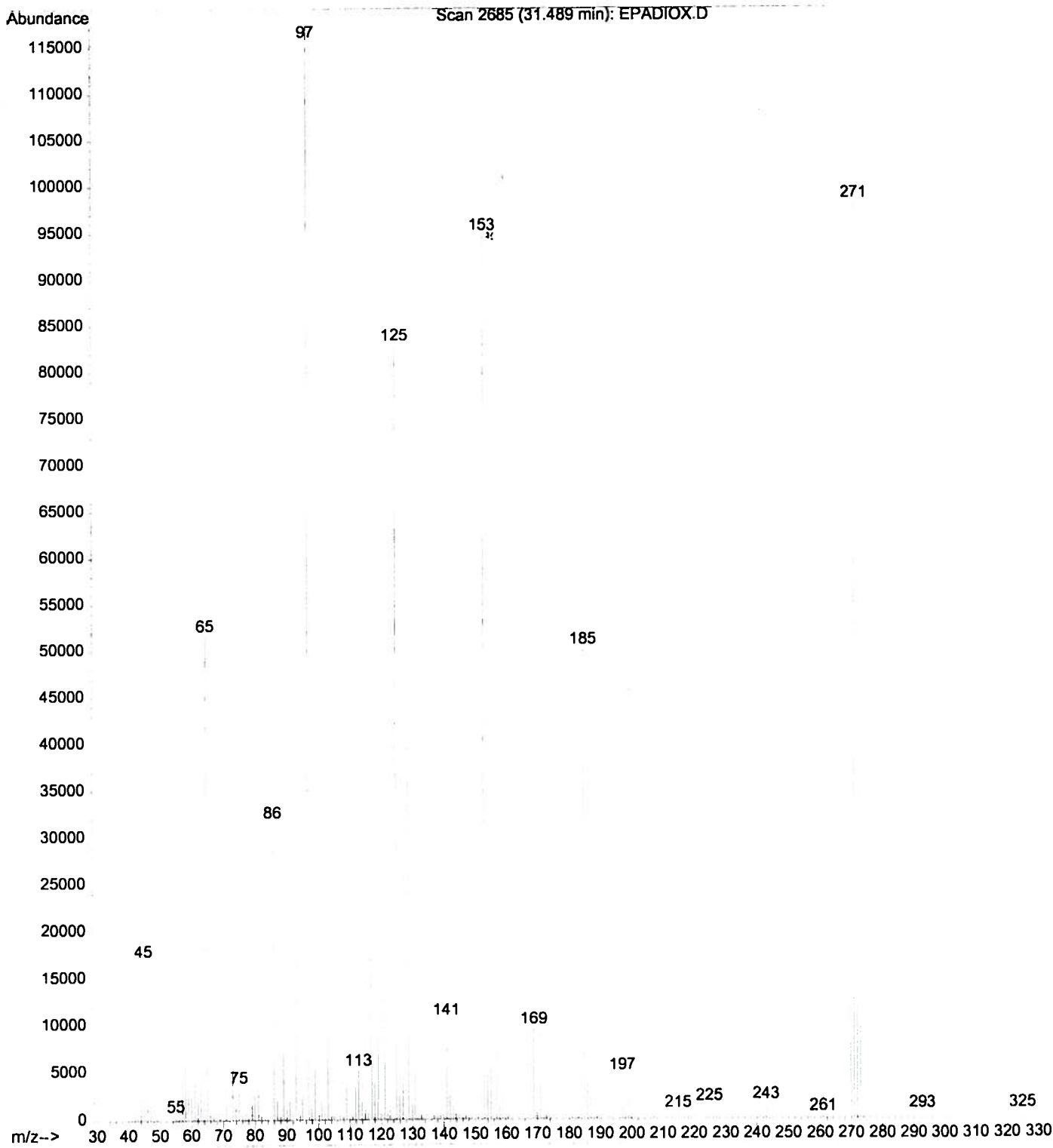
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Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



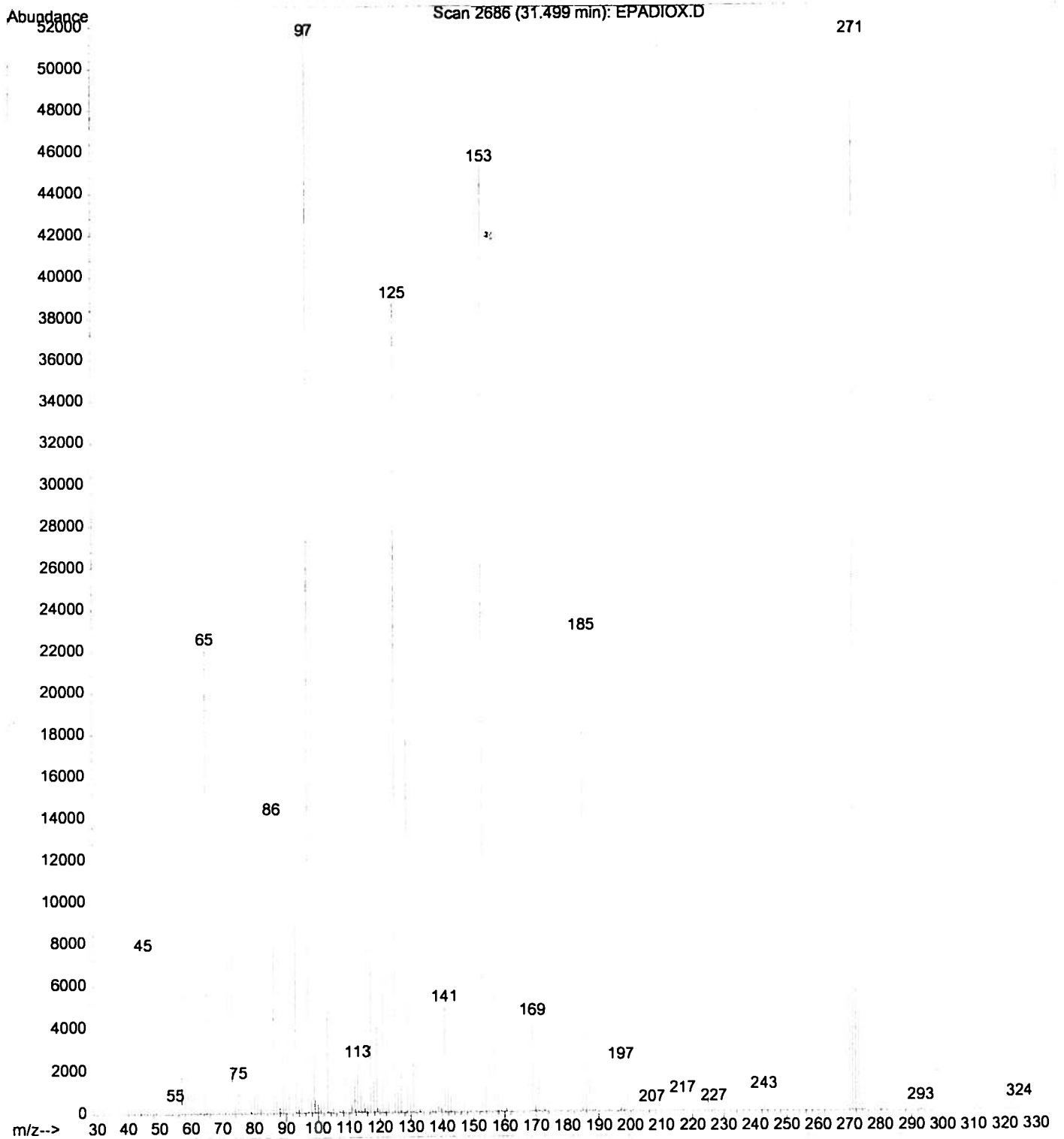
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Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



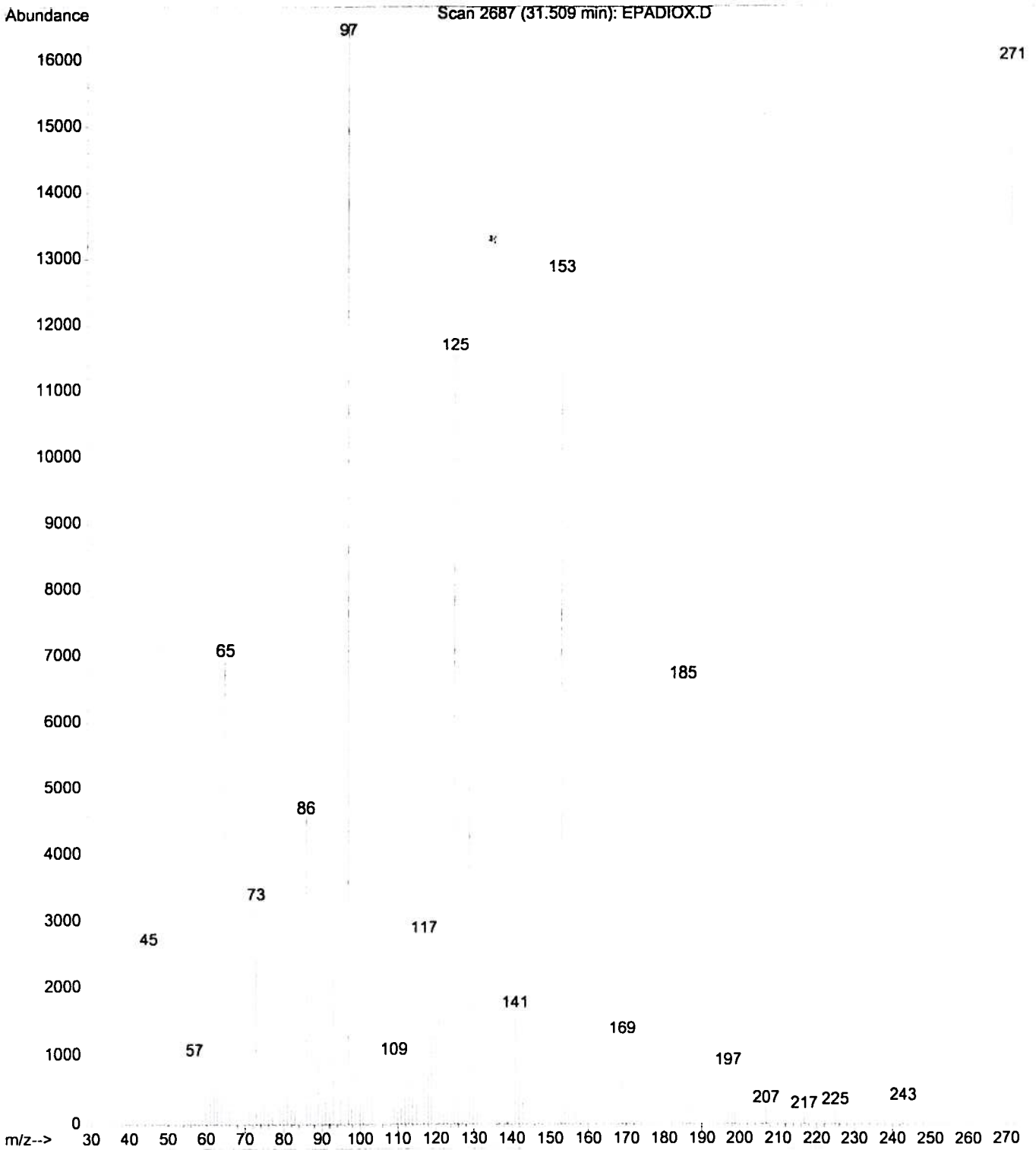
File : C:\HPCHEM\1\DATA\091499\EPADIOX.D
Operator : jmr
Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



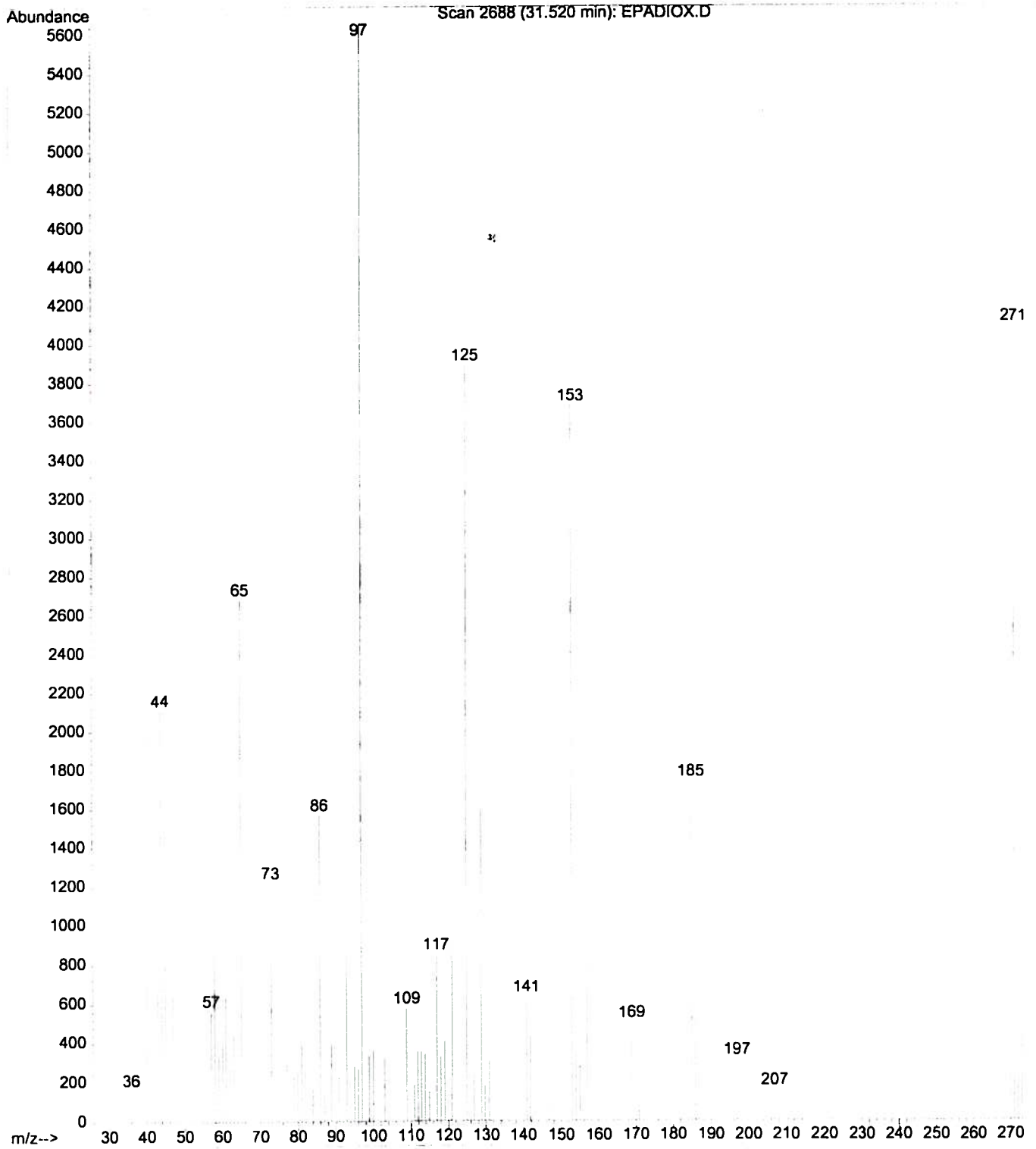
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Operator : jmr
Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



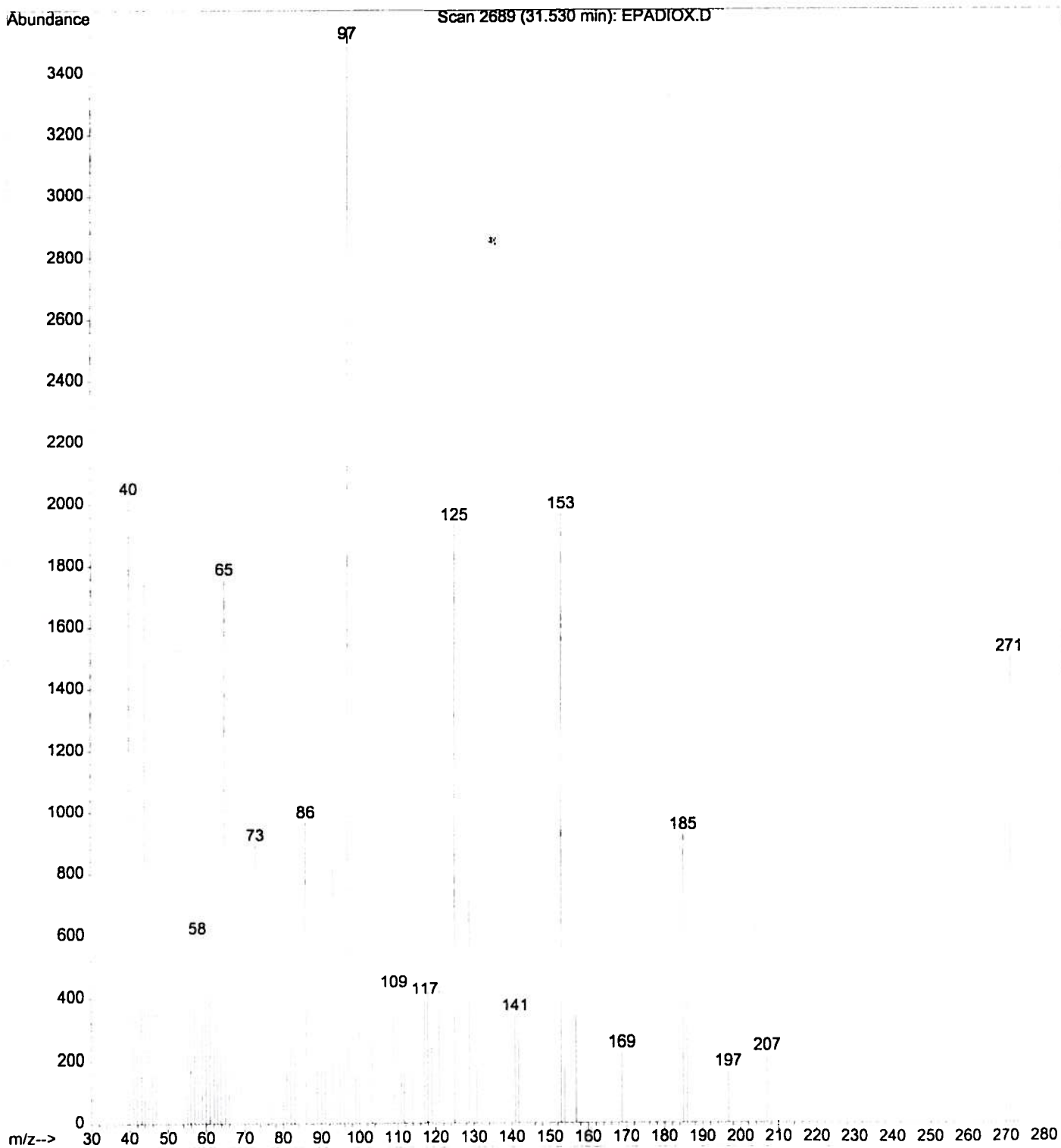
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Operator : jmr
Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



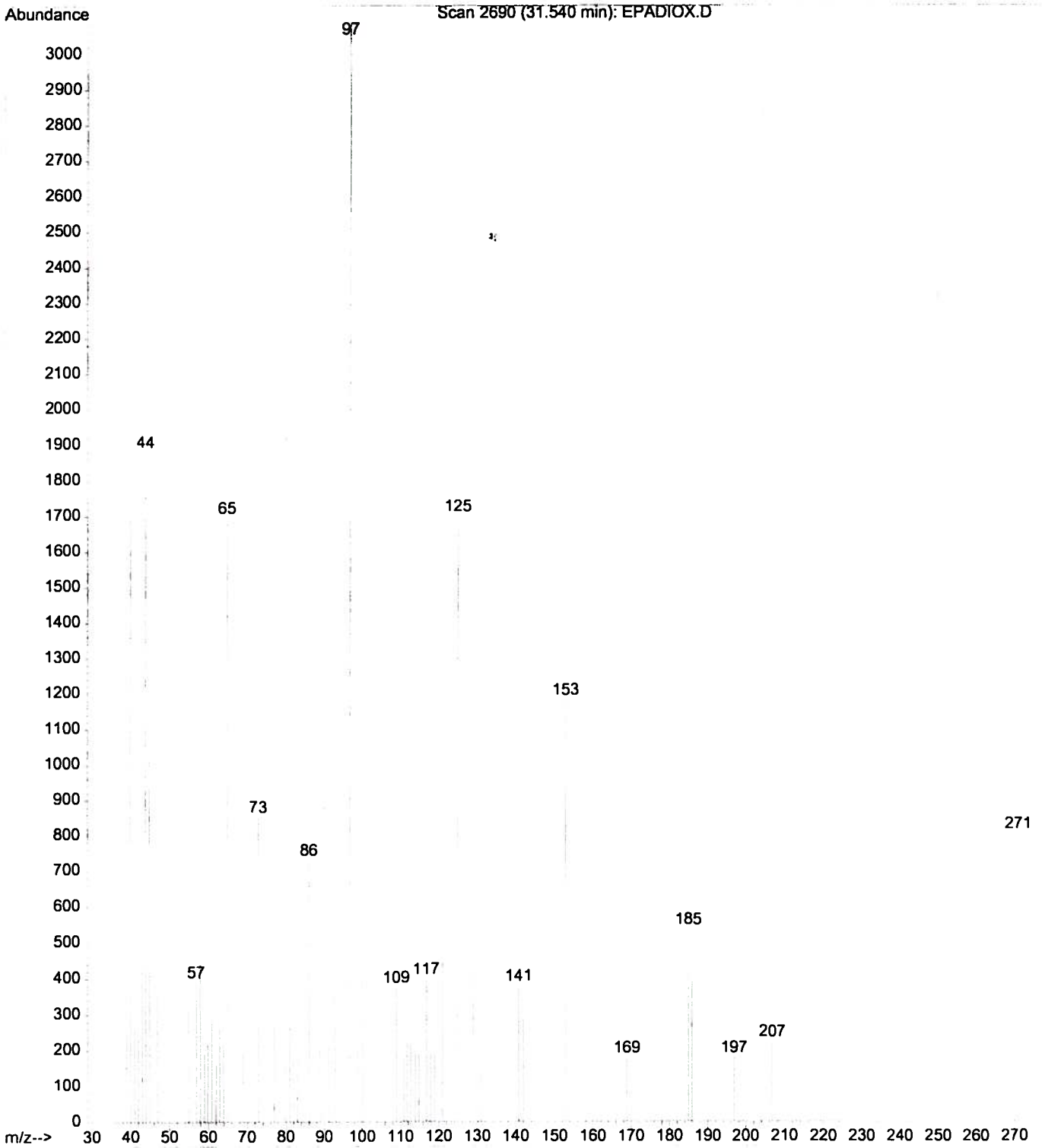
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Operator : jmr
Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



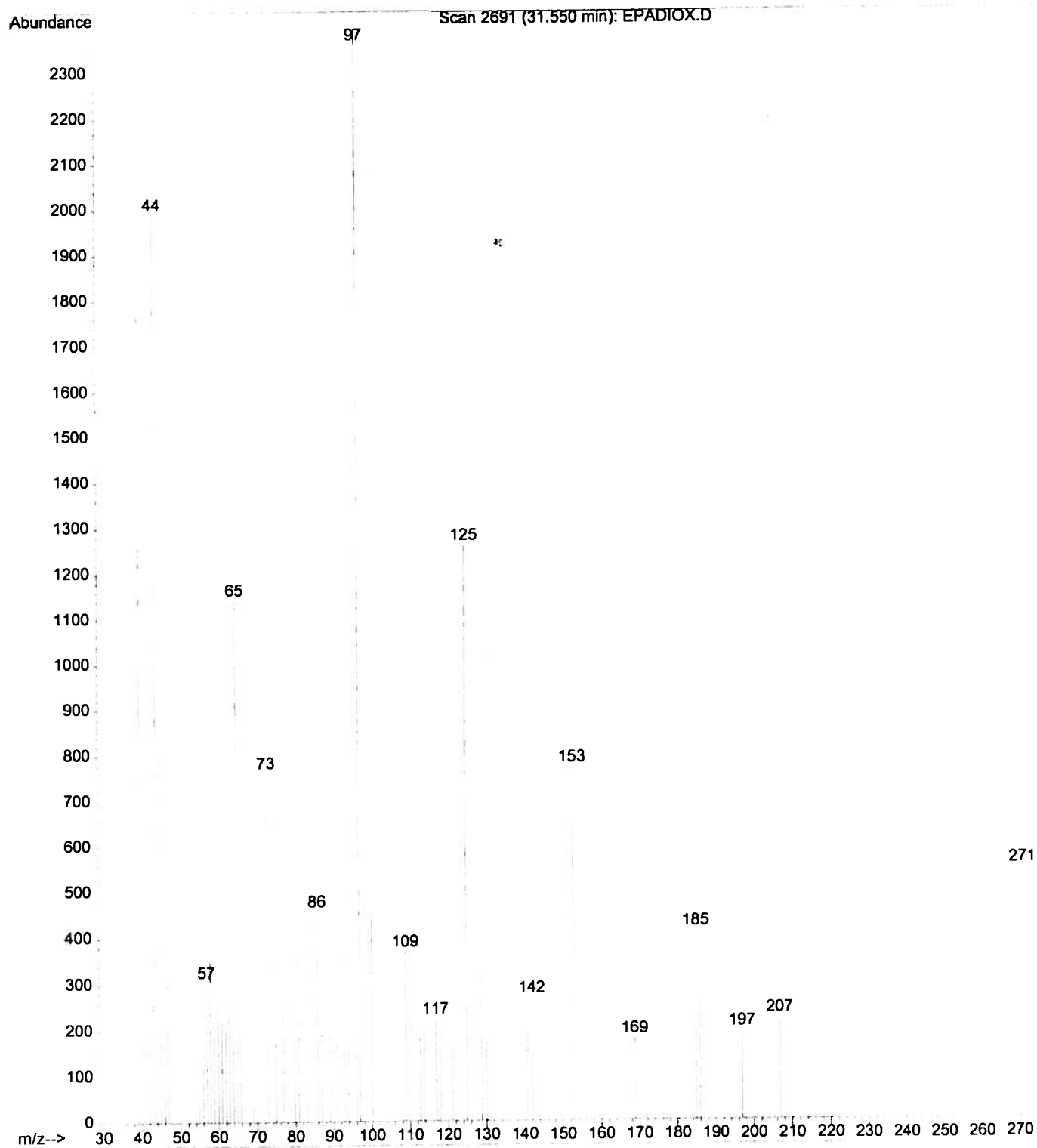
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Operator : jmr
Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



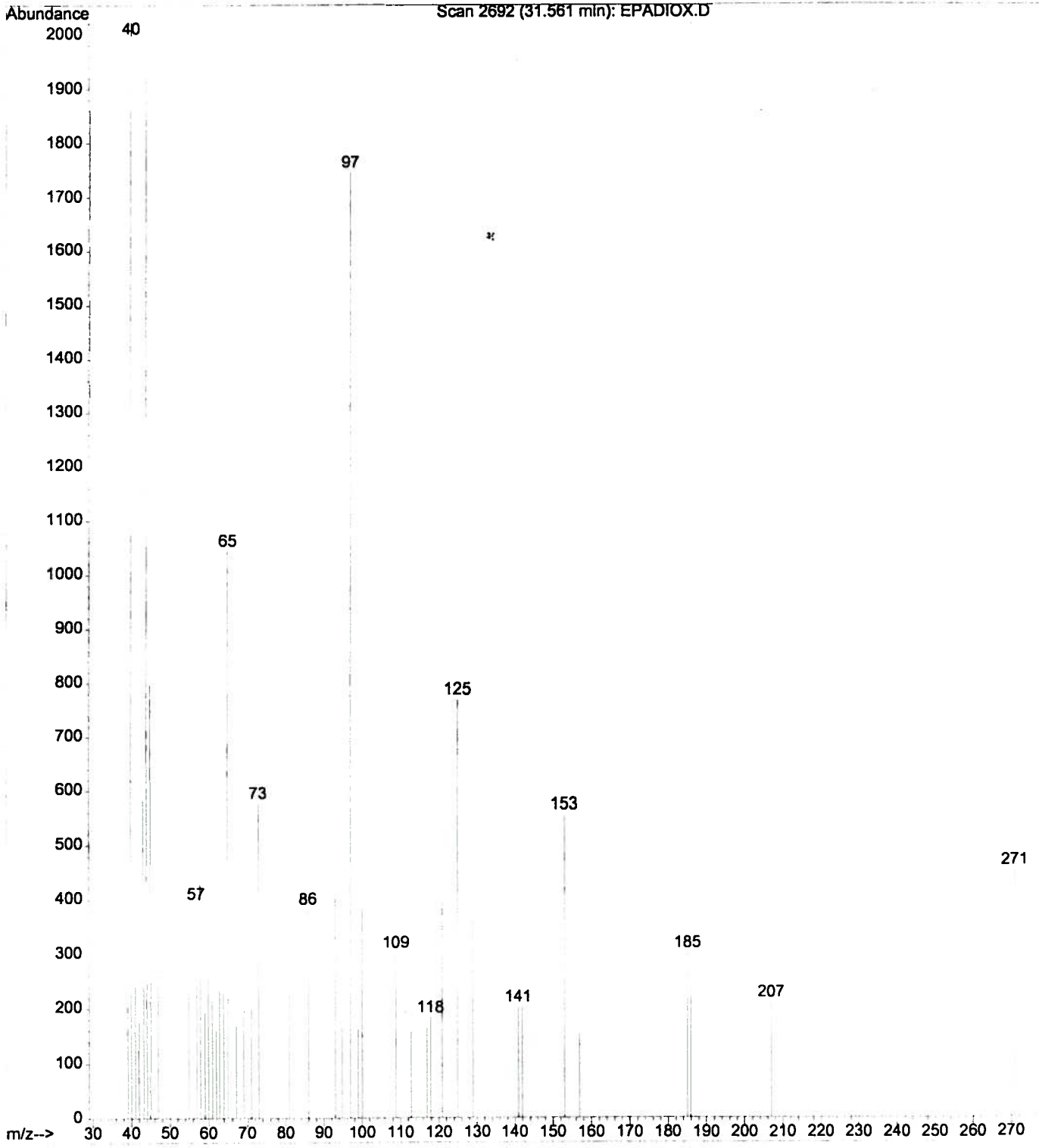
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Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25

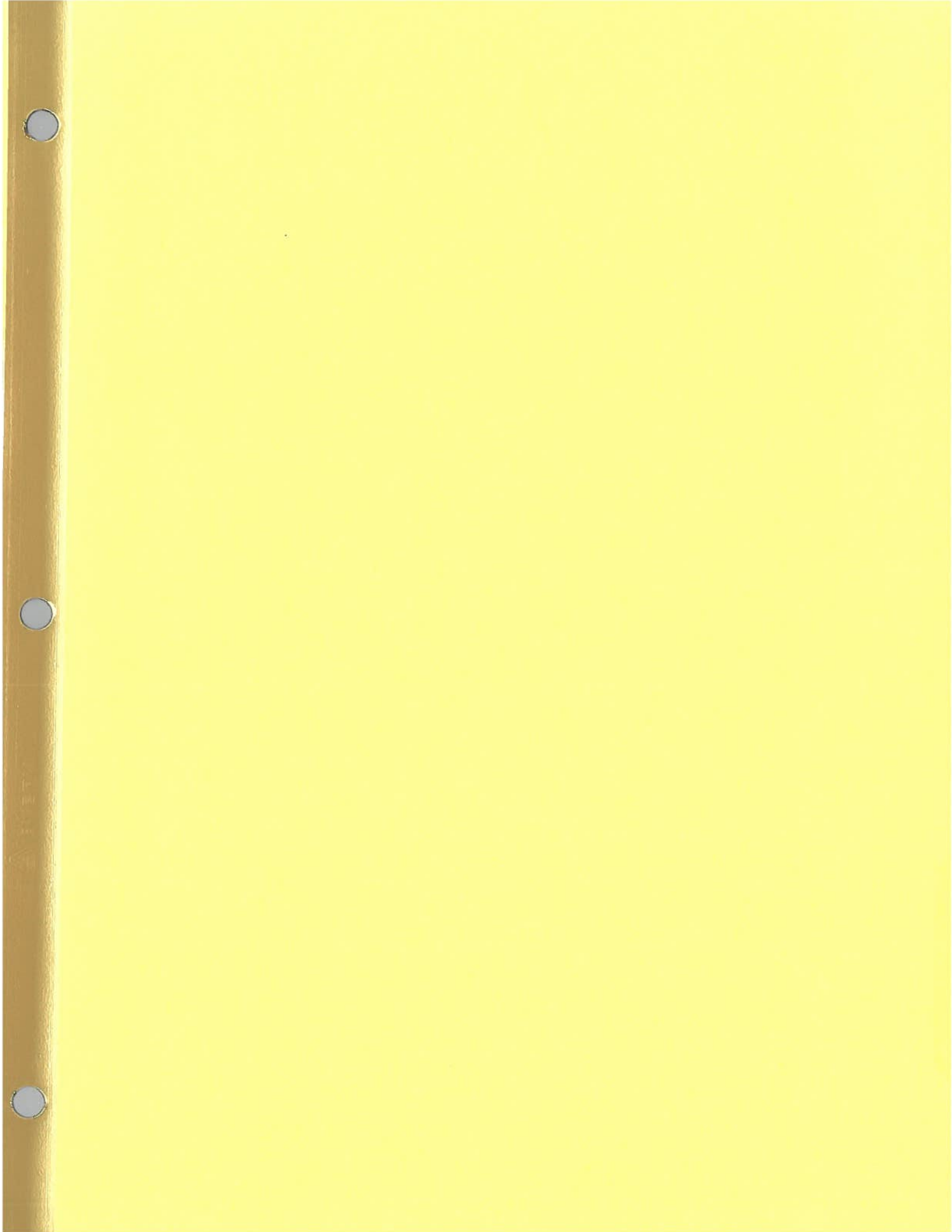


File : C:\HPCHEM\1\DATA\091499\EPADIOX.D
Operator : jmr
Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



File : C:\HPCHEM\1\DATA\091499\EPADIOX.D
Operator : jmr
Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25



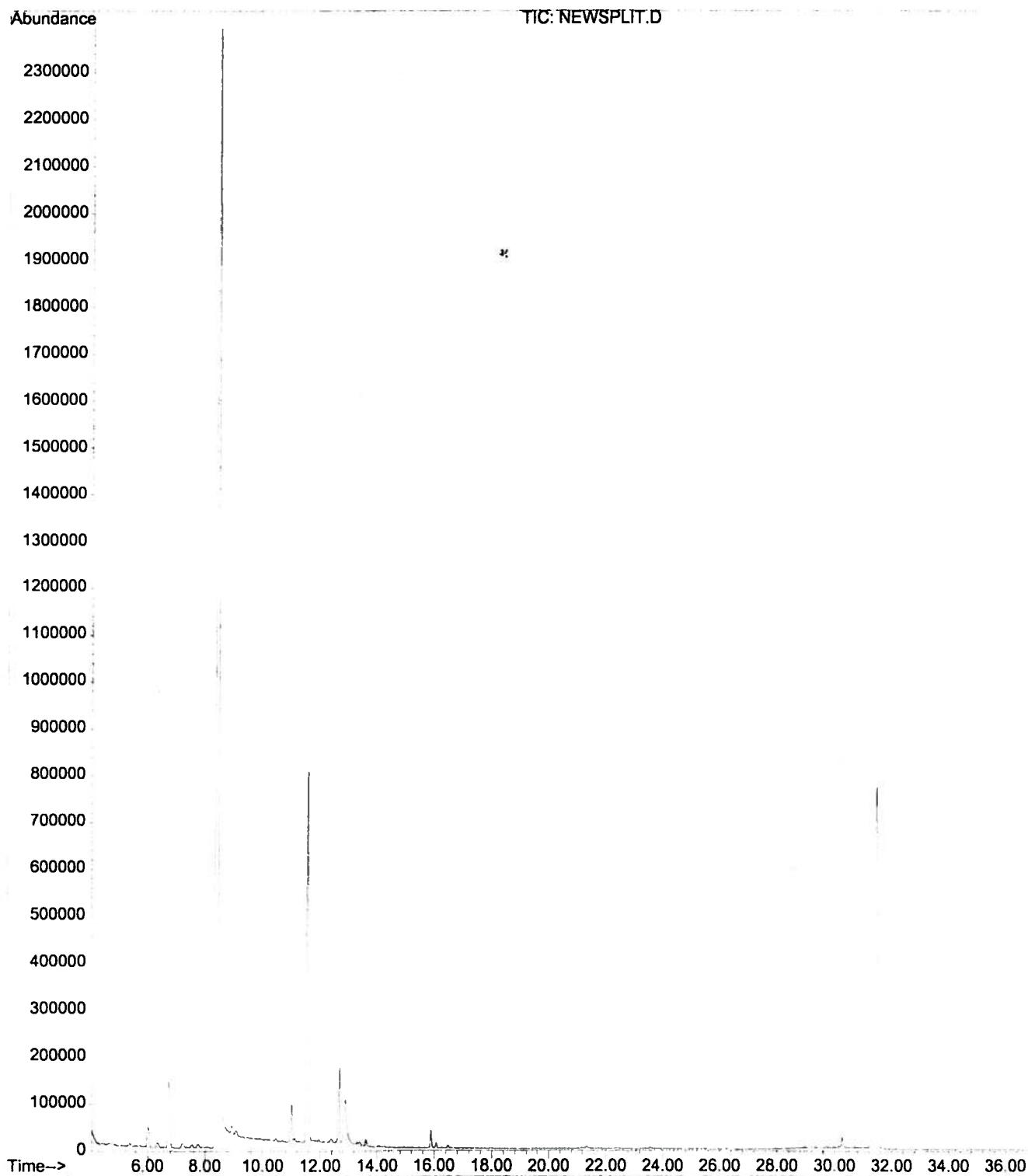


SPLIT/SPLITLESS STUDY

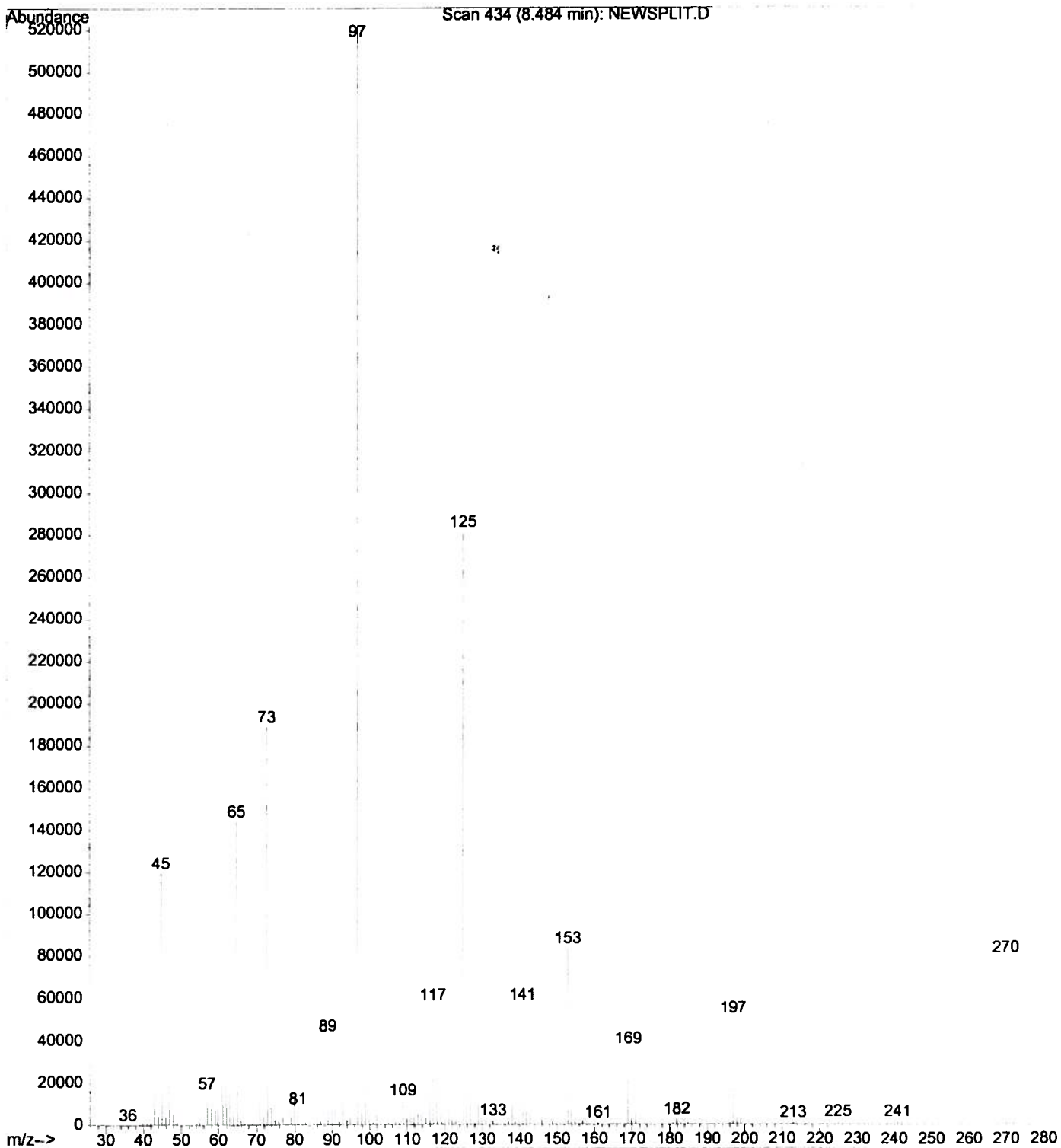
ANALYZED BOTH NEW & OLD STANDARDS AT A 10:1 SPLIT

NO DIFFERENCE FROM THE SPLITLESS RUNS

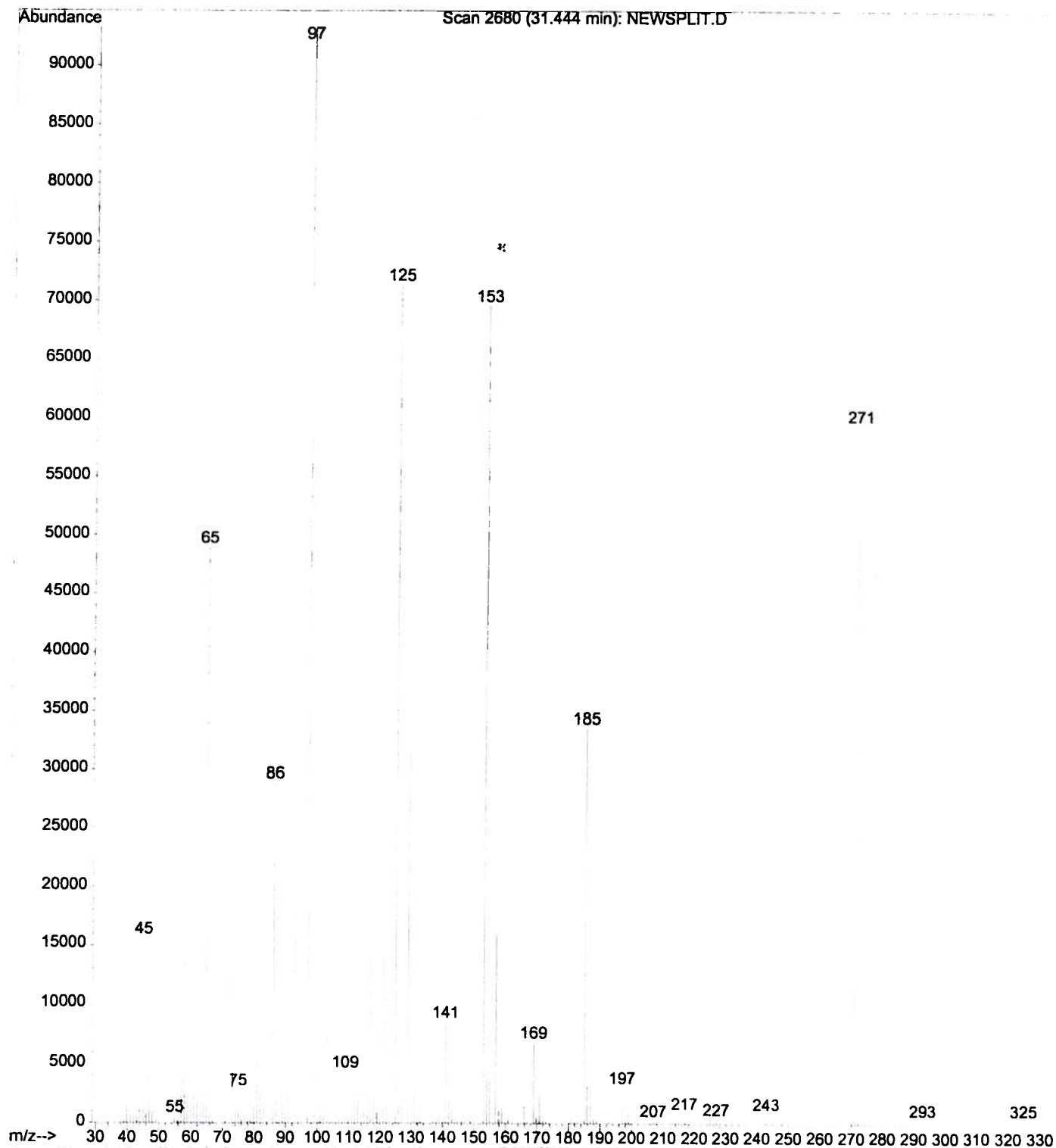
File : C:\HPCHEM\1\DATA\100599\NEWSPLIT.D
Operator : jmr
Acquired : 5 Oct 99 11:25 am using AcqMethod FPDSPLIT
Instrument : GC/MS Ins
Sample Name: new std 10:1 split
Misc Info :
Vial Number: 19



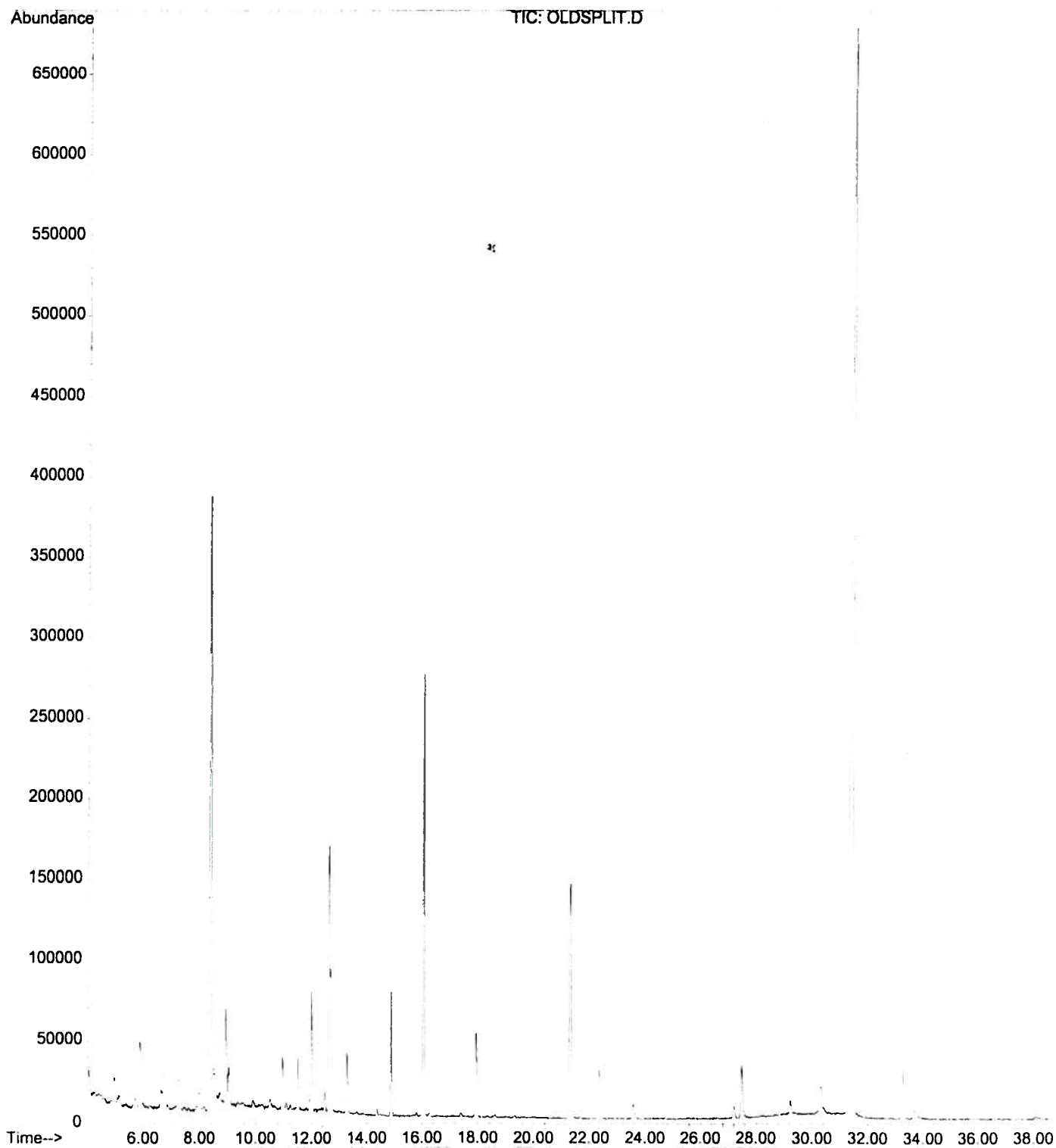
File : C:\HPCHEM\1\DATA\100599\NEWSPLIT.D
Operator : jmr
Acquired : 5 Oct 99 11:25 am using AcqMethod FPDSPLIT
Instrument : GC/MS Ins
Sample Name: new std 10:1 split
Misc Info :
Vial Number: 19



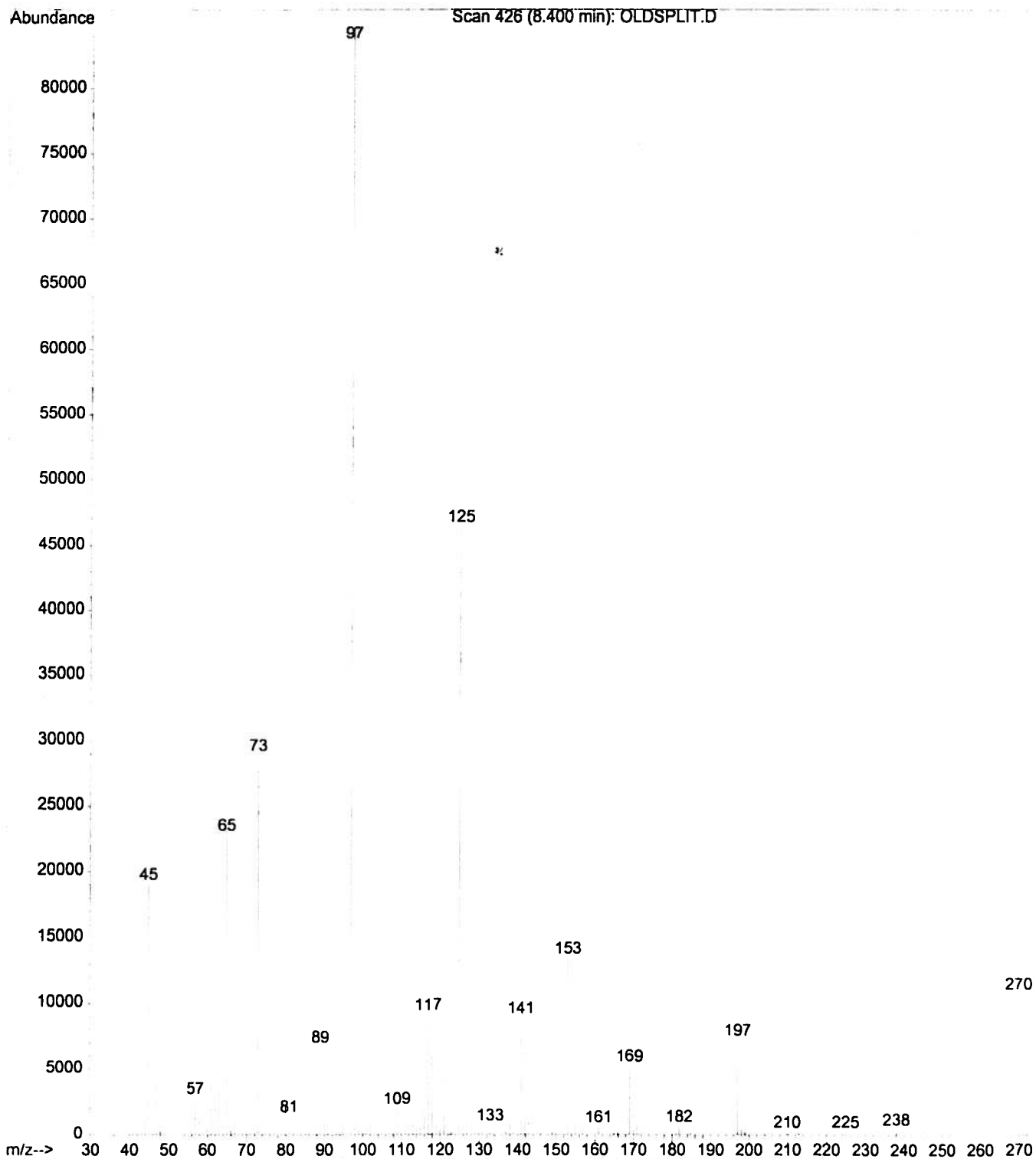
File : C:\HPCHEM\1\DATA\100599\NEWSPLIT.D
Operator : jmr
Acquired : 5 Oct 99 11:25 am using AcqMethod FPDSPPLIT
Instrument : GC/MS Ins
Sample Name: new std 10:1 split
Misc Info :
Vial Number: 19



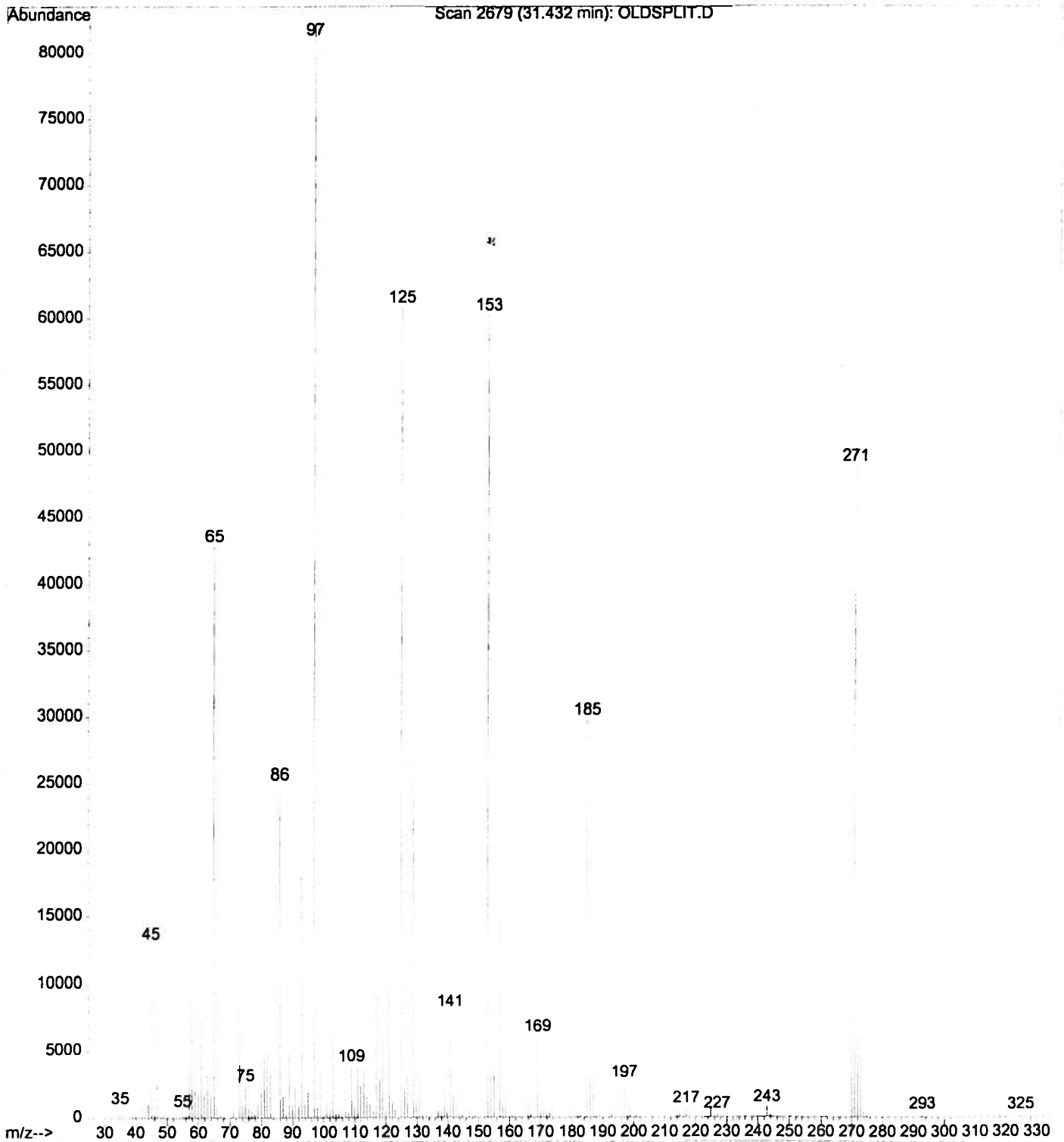
File : C:\HPCHEM\1\DATA\100599\OLDSPLIT.D
Operator : jmr
Acquired : 5 Oct 99 12:14 pm using AcqMethod FPDSPLIT
Instrument : GC/MS Ins
Sample Name: old std 10:1 split
Misc Info :
Vial Number: 20



File : C:\HPCHEM\1\DATA\100599\OLDSPLIT.D
Operator : jmr
Acquired : 5 Oct 99 12:14 pm using AcqMethod FPDSPPLIT
Instrument : GC/MS Ins
Sample Name: old std 10:1 split
Misc Info :
Vial Number: 20



File : C:\HPCHEM\1\DATA\100599\OLDSPLIT.D
Operator : jmr
Acquired : 5 Oct 99 12:14 pm using AcqMethod FPDSPLIT
Instrument : GC/MS Ins
Sample Name: old std 10:1 split
Misc Info :
Vial Number: 20





UV DEGRADATIONS STUDY

**SUBJECTED THE EPA SAMPLE TO 5 DAYS UNDER A UV LAMP TO
DETERMINE IF PEAK #2 REDUCED**

SUBJECTED ANOTHER DUPLICATE TO NO UV FOR 5 DAYS

RESULT: PEAK #2 REDUCED WHEN EXPOSED TO UV LIGHT

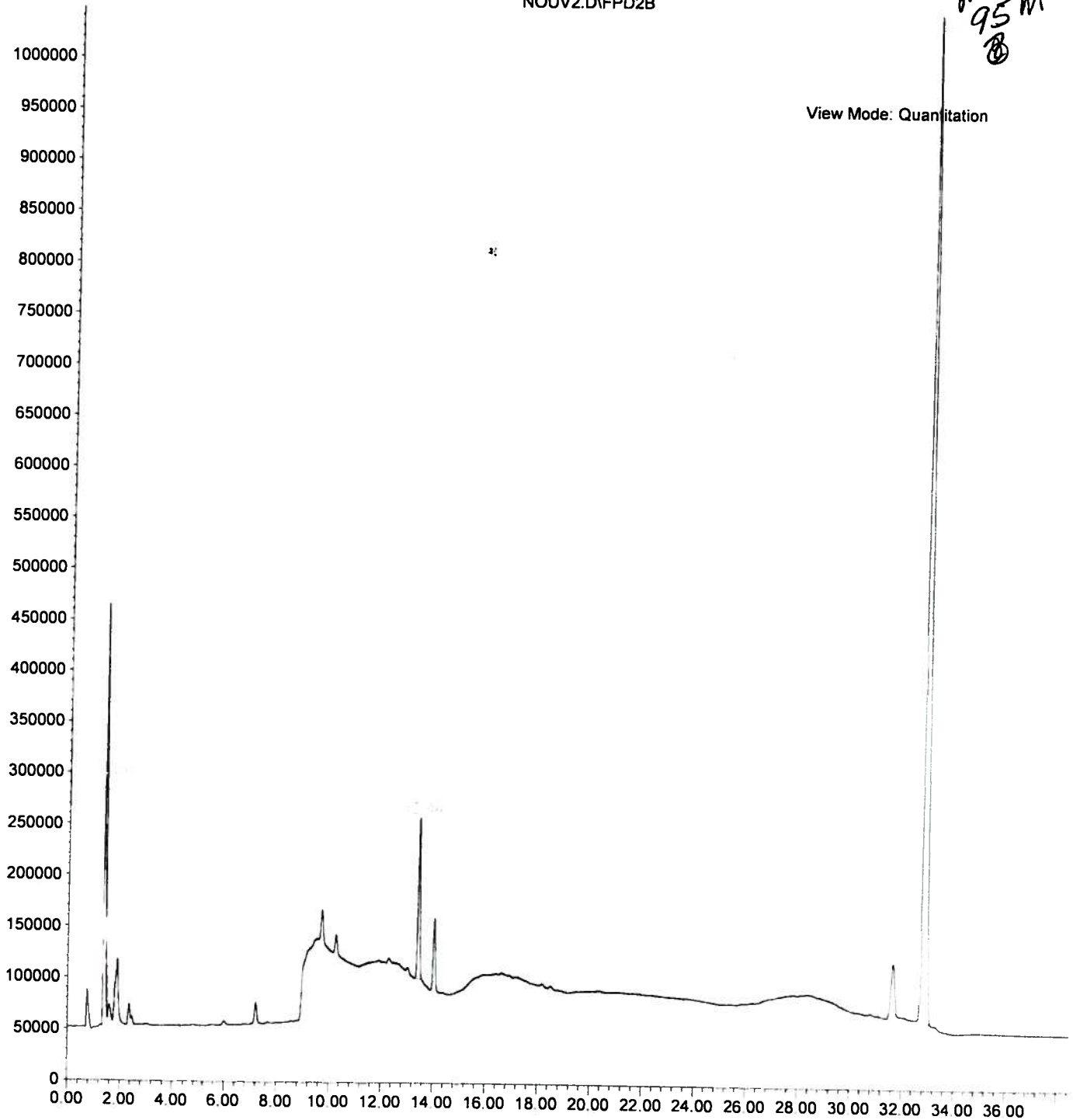
File : C:\HPCHEM\1\DATA\101999\NOUV2.D
Operator :
Acquired : 19 Oct 99 11:26 using AcqMethod 8141AB.M
Instrument : FPD/FID I
Sample Name: no uv #1 degradation study 100 ppm
Misc Info :
Vial Number: 6

Control

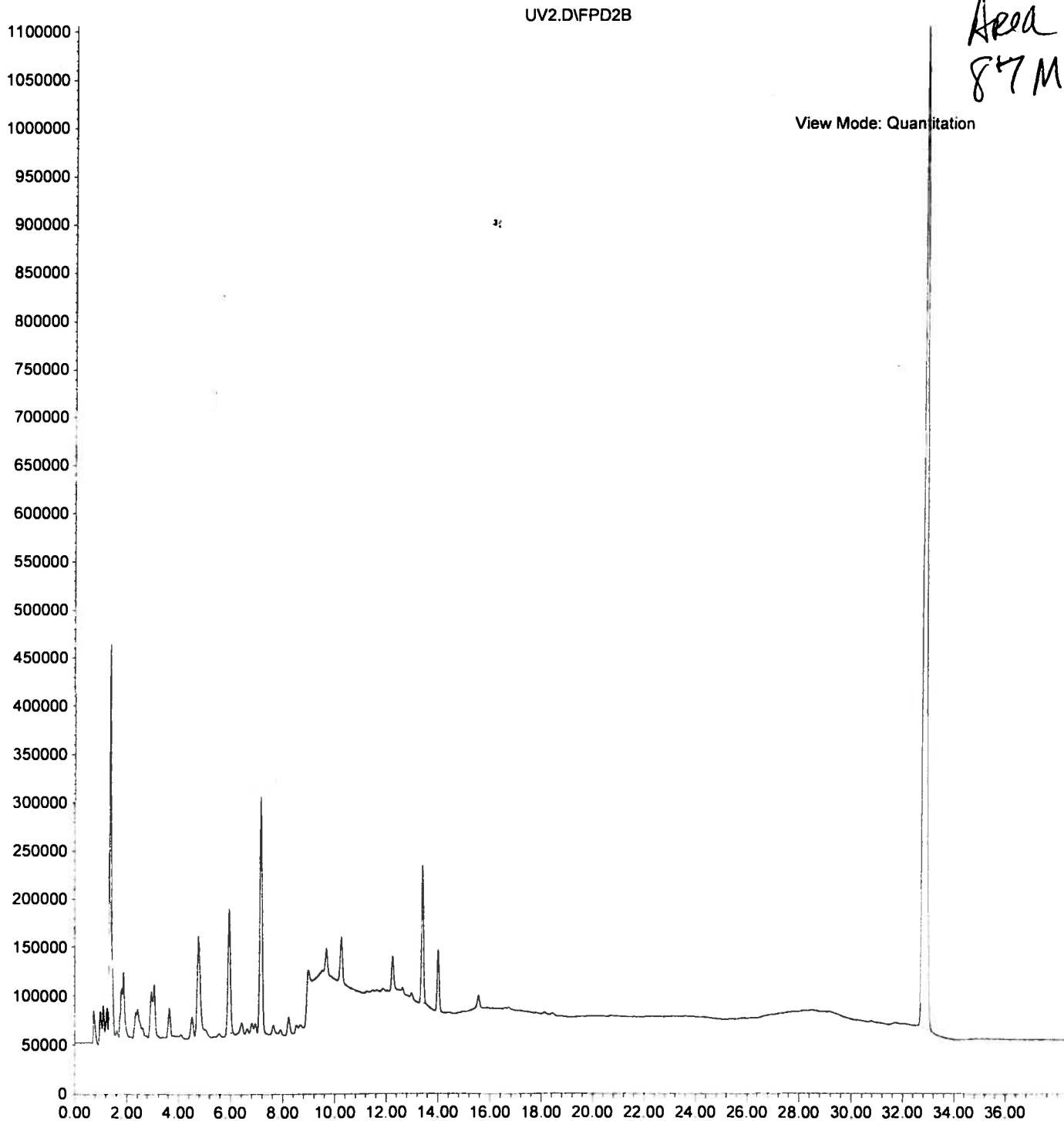
NOUV2.D\FPD2B

*Area
95 M
B*

View Mode: Quantitation



File : C:\HPCHEM\1\DATA\101999\UV2.D
Operator :
Acquired : 19 Oct 99 12:26 using AcqMethod 8141AB.M
Instrument : FPD/FID I
Sample Name: uv #1 degradation study 100ppm
Misc Info :
Vial Number: 7



Data File : C:\HPCHEM\1\DATA\101999\NOUV4.D Vial: 6
 Acq On : 19 Oct 99 16:07 Operator:
 Sample : no uv #1 degradation study 100 ppm2 Inst : FPD/FID I
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : events.e

Quant Time: Oct 19 16:46 1999 Quant Results File: 8141AB.RES

Quant Method : C:\HPCHEM\1\METHODS\8141AB.M (Chemstation Integrator)
 Title :
 Last Update : Wed Jul 28 09:17:49 1999
 Response via : Initial Calibration
 DataAcq Meth : 8141AB.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Chlorpyrifos	13.40	7843000	1538.380 ppb
Spiked Amount 1000.000		Recovery	= 153.84%
Target Compounds			
2) T Dioxathion Peak #1	0.00	0	N.D. ppb
3) T Dioxathion Peak #2	32.84	185278798	69878.568 PPB

Data File : C:\HPCHEM\1\DATA\101999\NOUV4.D
Acq On : 19 Oct 99 16:07
Sample : no uv #1 degradation study 100 ppm2
Misc :

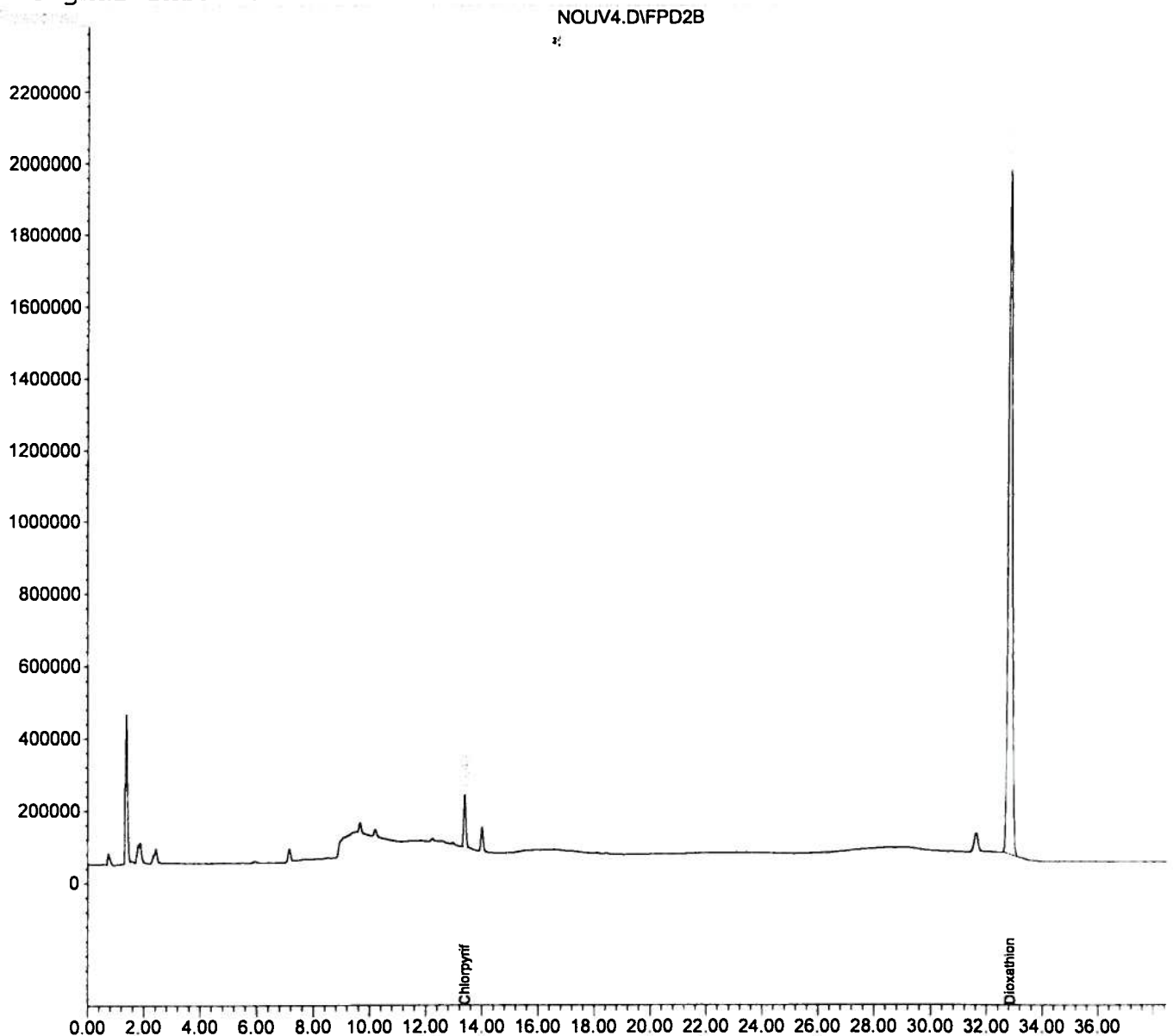
Vial: 6
Operator:
Inst : FPD/FID I
Multiplr: 1.00
Sample Amount: 0.00

IntFile : events.e

Quant Time: Oct 19 16:46 1999 Quant Results File: 8141AB.RES

Quant Method : C:\HPCHEM\1\METHODS\8141AB.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 28 09:17:49 1999
Response via : Multiple Level Calibration
DataAcq Meth : 8141AB.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\101999\UV4.D
 Acq On : 19 Oct 99 17:07
 Sample : uv #1 degradation study 100ppm2
 Misc :

Vial: 7
 Operator:
 Inst : FPD/FID I
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : events.e

Quant Time: Oct 19 17:46 1999 Quant Results File: 8141AB.RES

Quant Method : C:\HPCHEM\1\METHODS\8141AB.M (Chemstation Integrator)
 Title :
 Last Update : Wed Jul 28 09:17:49 1999
 Response via : Initial Calibration
 DataAcq Meth : 8141AB.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Chlorpyrifos	13.40	7470631	1465.341 ppb
Spiked Amount 1000.000		Recovery	= 146.53%
Target Compounds			
2) T Dioxathion Peak #1	0.00	0	N.D. ppb
3) T Dioxathion Peak #2	32.84	151873162	57279.512 PPB

Data File : C:\HPCHEM\1\DATA\101999\UV4.D
Acq On : 19 Oct 99 17:07
Sample : uv #1 degradation study 100ppm2
Misc :

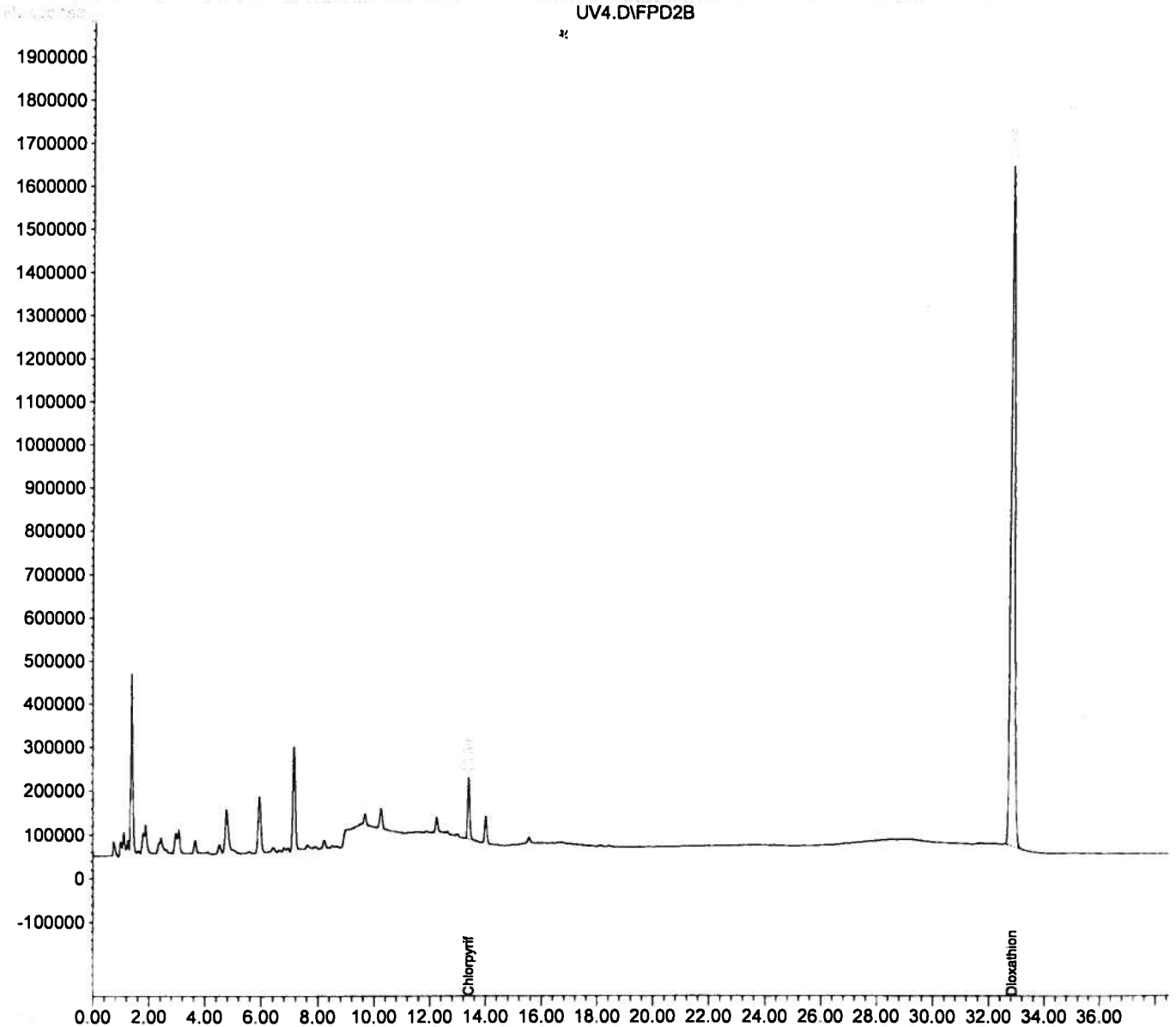
Vial: 7
Operator:
Inst : FPD/FID I
Multiplr: 1.00
Sample Amount: 0.00

IntFile : events.e

Quant Time: Oct 19 17:46 1999 Quant Results File: 8141AB.RES

Quant Method : C:\HPCHEM\1\METHODS\8141AB.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 28 09:17:49 1999
Response via : Multiple Level Calibration
DataAcq Meth : 8141AB.M

Volume Inj. :
Signal Phase :
Signal Info :





GC/MS RAMPING 140°C to 220°C STUDY

**ANALYZED BOTH OLD & NEW STANDARDS ON GC/MS AT
TEMPERATURES OF 140°C & 220°C**

**DETERMINED THAT AREAS AT 140°C WERE CONSIDERABLY
LOWER**

**TRIED TO DETERMINED A REASON THE 140°C AREA WAS LOW BY
ANALYZING @ 140°C & RAMPING TO 220°C
RAMPING HAD NO EFFECT ON AREA**

9/13/99 Received Dioxathion STD from MS State, from EPA
(90% , Lot # 20236-94, rec'd from EPA Repository Ft. Meade, MD)

1. injected sample @ 220°C on GC/MS (approx 830ppm) method FPD D10X.M
2. injected sample @ 140°C on GC/MS (approx 830ppm) method FPD D140.M

9/14 got a large peak @ 8.4 and a smaller peak @ 31.4

areas for the 140°C injection port were considerably lower.

3. injected old Dioxathion STD @ 220°C on GC/MS (approx 830ppm)
4. injected old Dioxathion STD @ 140°C on GC/MS (approx. 830ppm)

got a small peak @ 8.4 and a large peak @ 31.4

areas for the 140°C injection port were considerably lower.

9/15/99 5 injected nothing (hoping something might still be in injection port ^(set over) _{1/10/99})

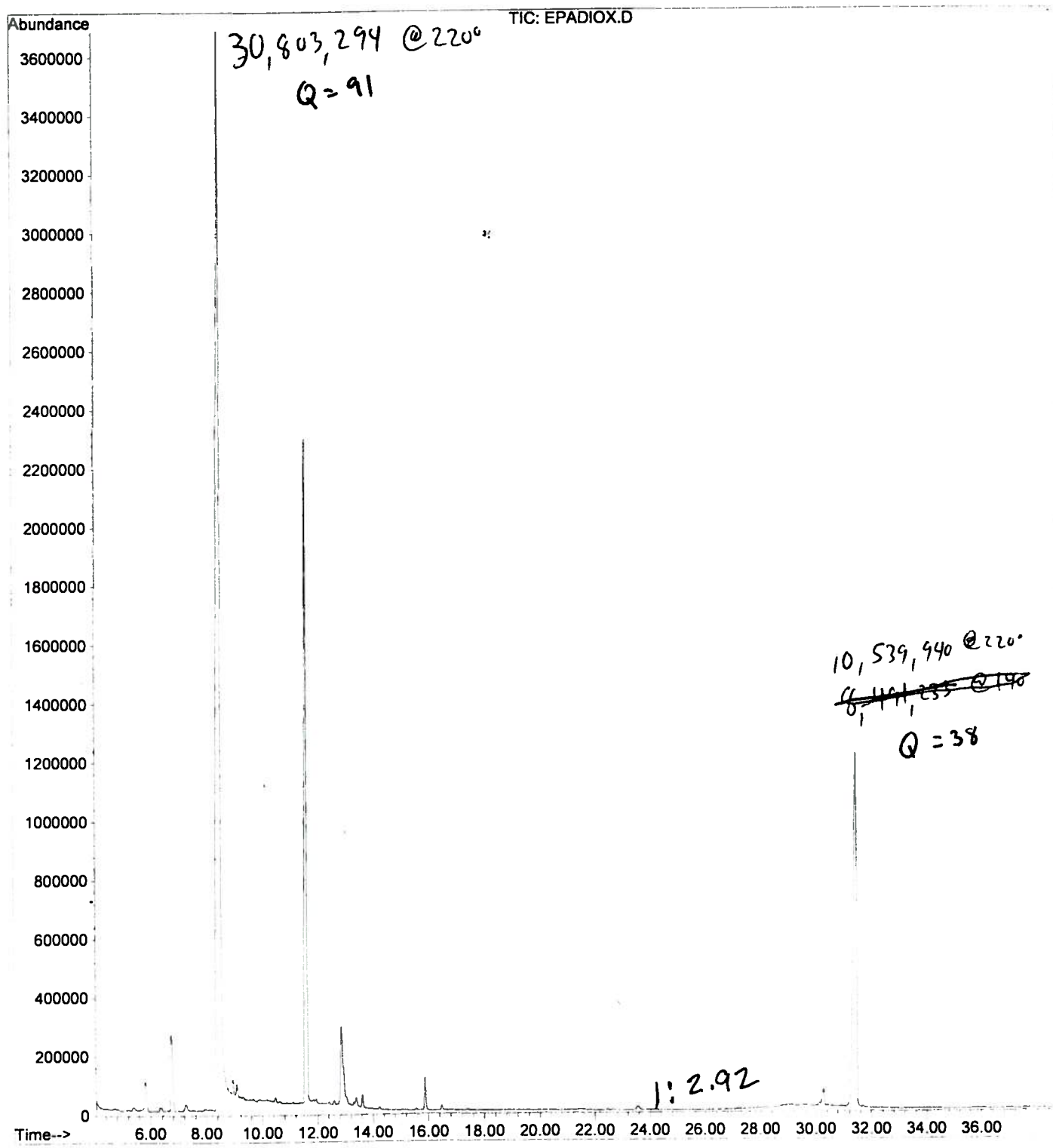
after last injection) and ramped injection port up to 220°C

6. added Chlorpyrifos to old STD and ~~then~~ injected @ 140° then ramp up to 220°C ~~to see~~ to see what areas are obtained.

* not enough Chlorpyrifos was added to see a nice peak

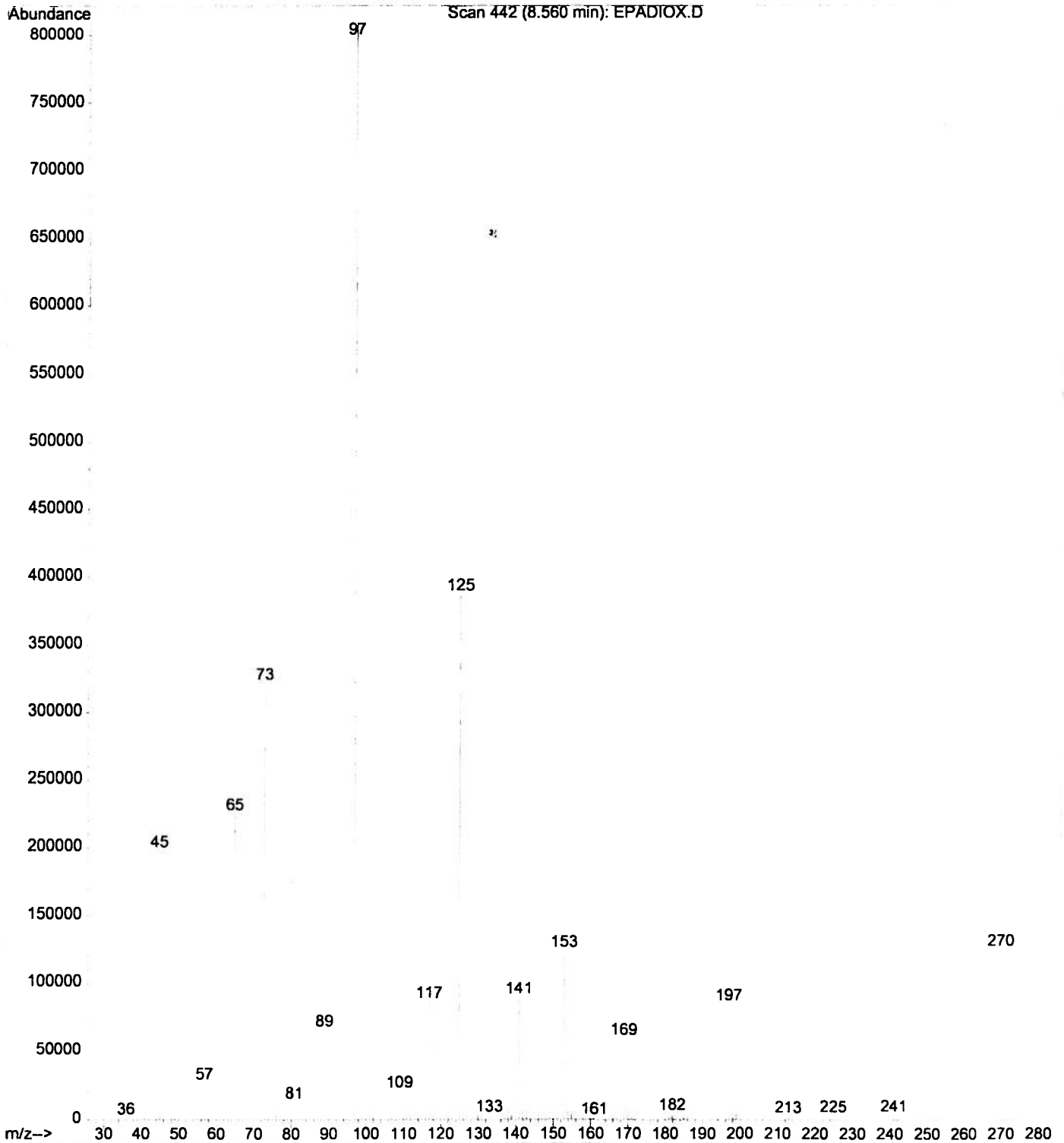
File : C:\HPCHEM\1\DATA\091499\EPADIOX.D
Operator : jmr
Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25

220° Inj Pt



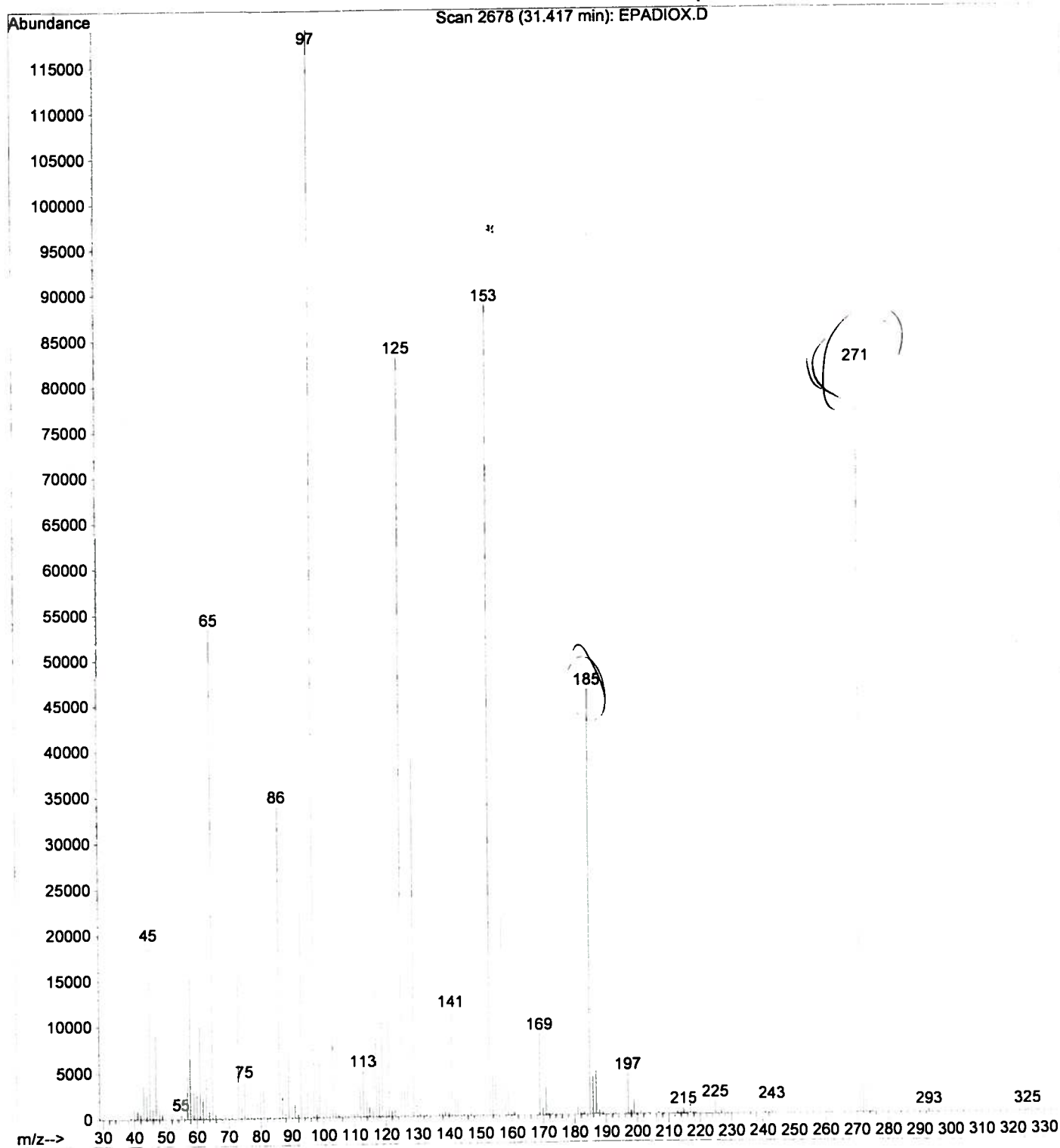
File : C:\HPCHEM\1\DATA\091499\EPADIOX.D
Operator : jmr
Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25

New std
1st peak @ 220°

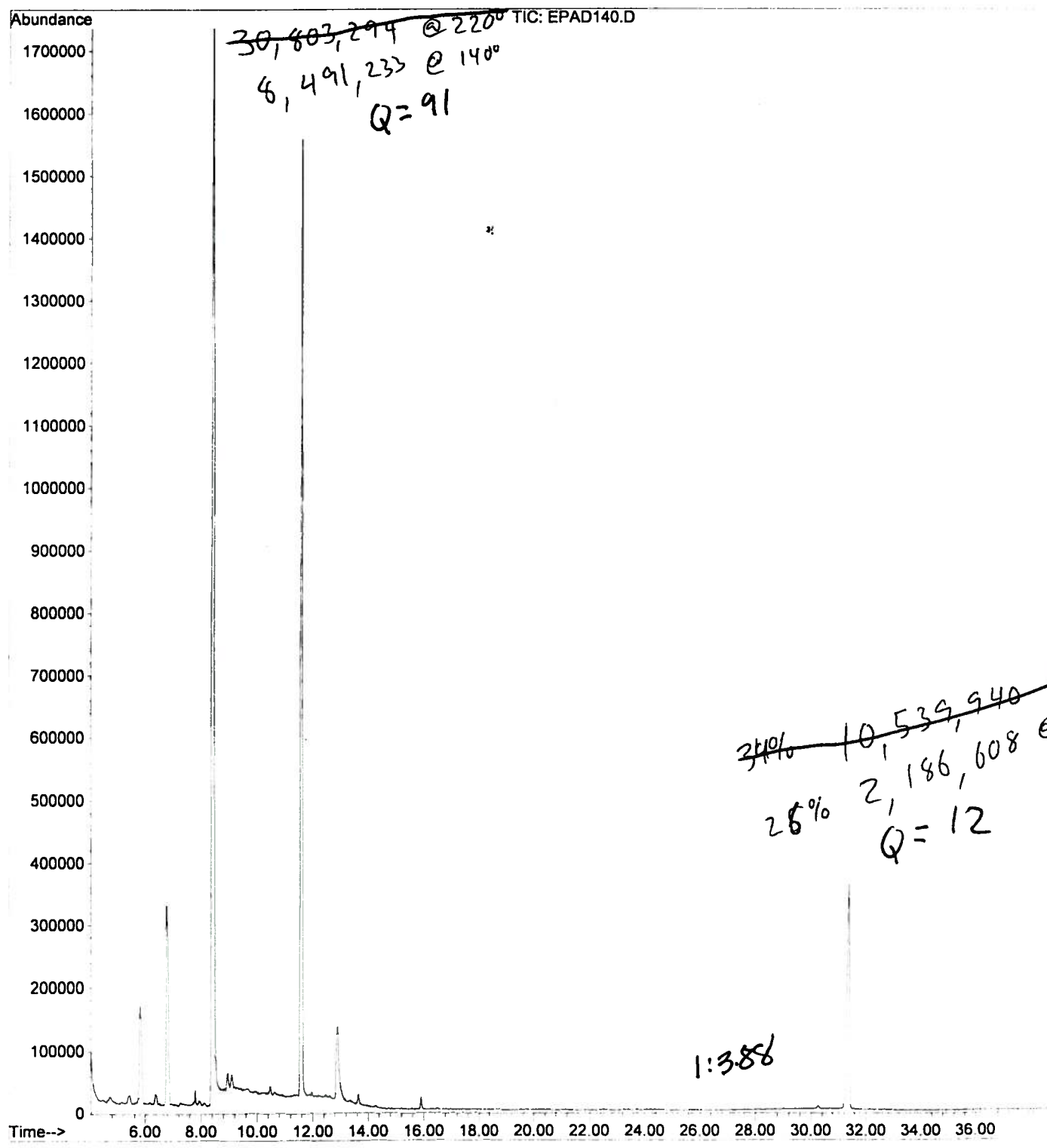


File : C:\HPCHEM\1\DATA\091499\EPADIOX.D
Operator : jmr
Acquired : 14 Sep 99 12:20 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm
Misc Info :
Vial Number: 25

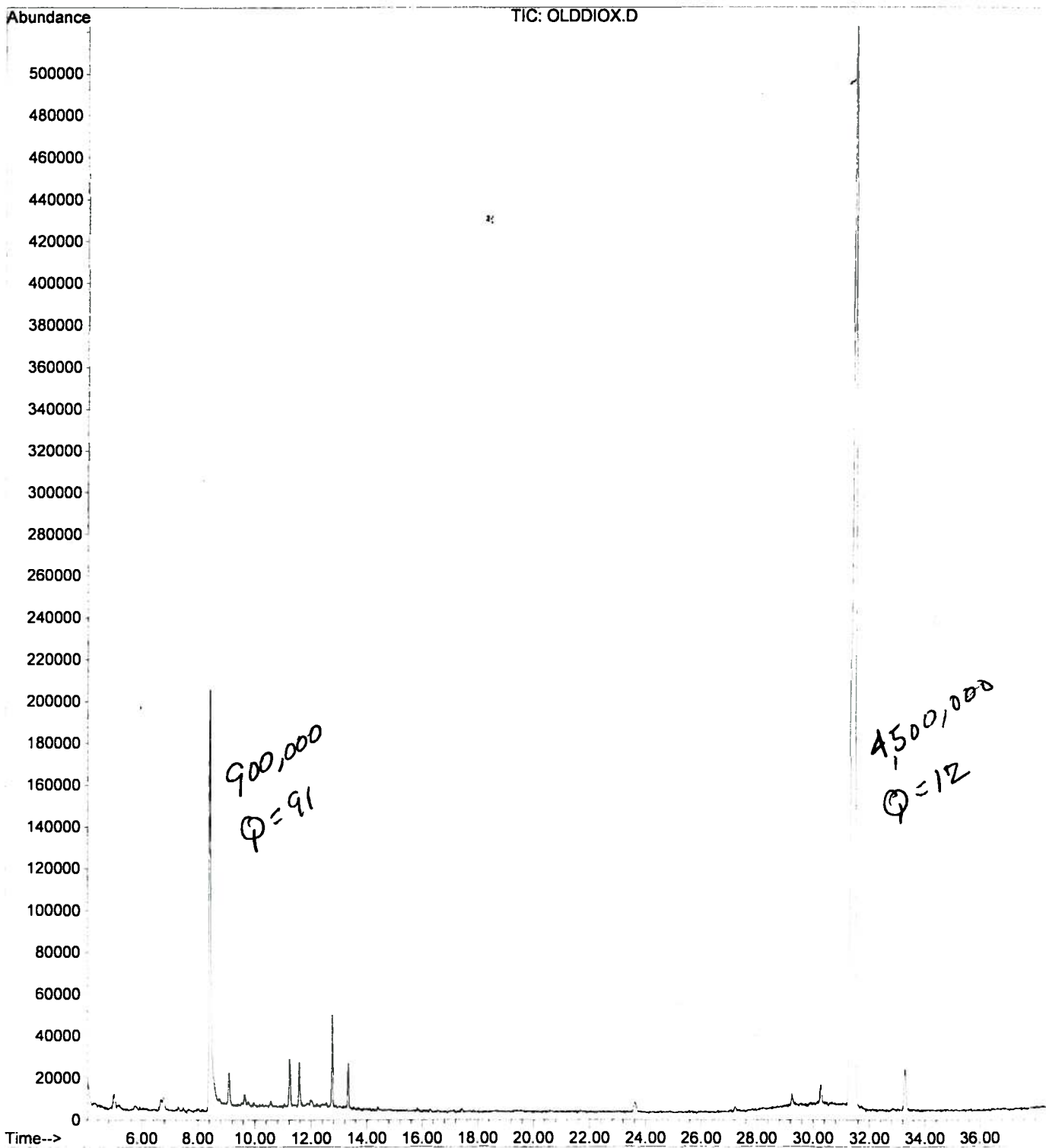
NEW STD
2nd peak @ 220°



File : C:\HPCHEM\1\DATA\091499\EPAD140.D
Operator : jmr
Acquired : 14 Sep 99 2:27 pm using AcqMethod FPDD140
Instrument : GC/MS Ins
Sample Name: Diox. form EPA at 830 ppm @ij 140
Misc Info :
Vial Number: 25

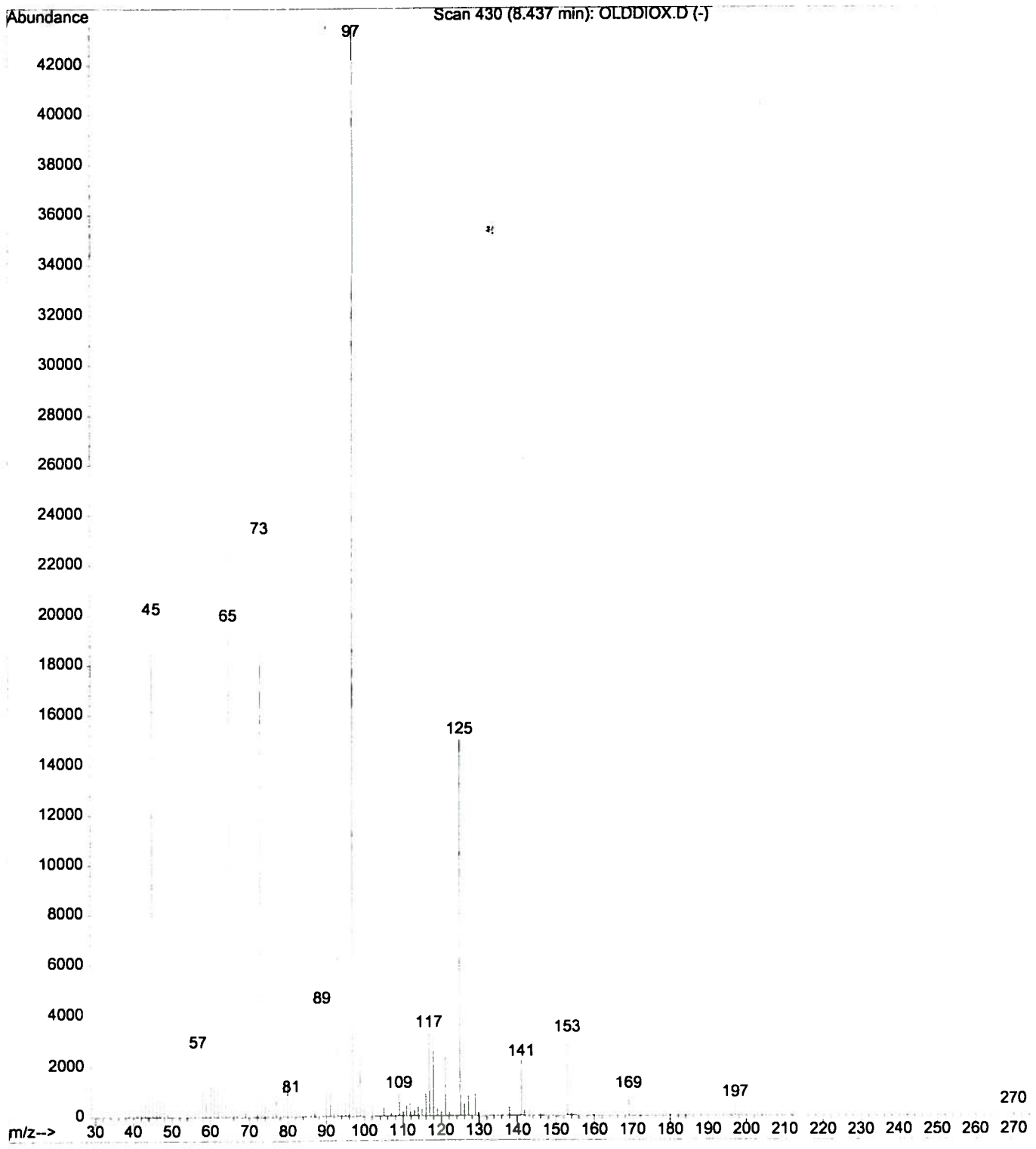


File : C:\HPCHEM\1\DATA\091499\OLDDIOX.D
Operator : jmr
Acquired : 14 Sep 99 4:40 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins *Inj port 220°C*
Sample Name: Diox.old std
Misc Info :
Vial Number: 25



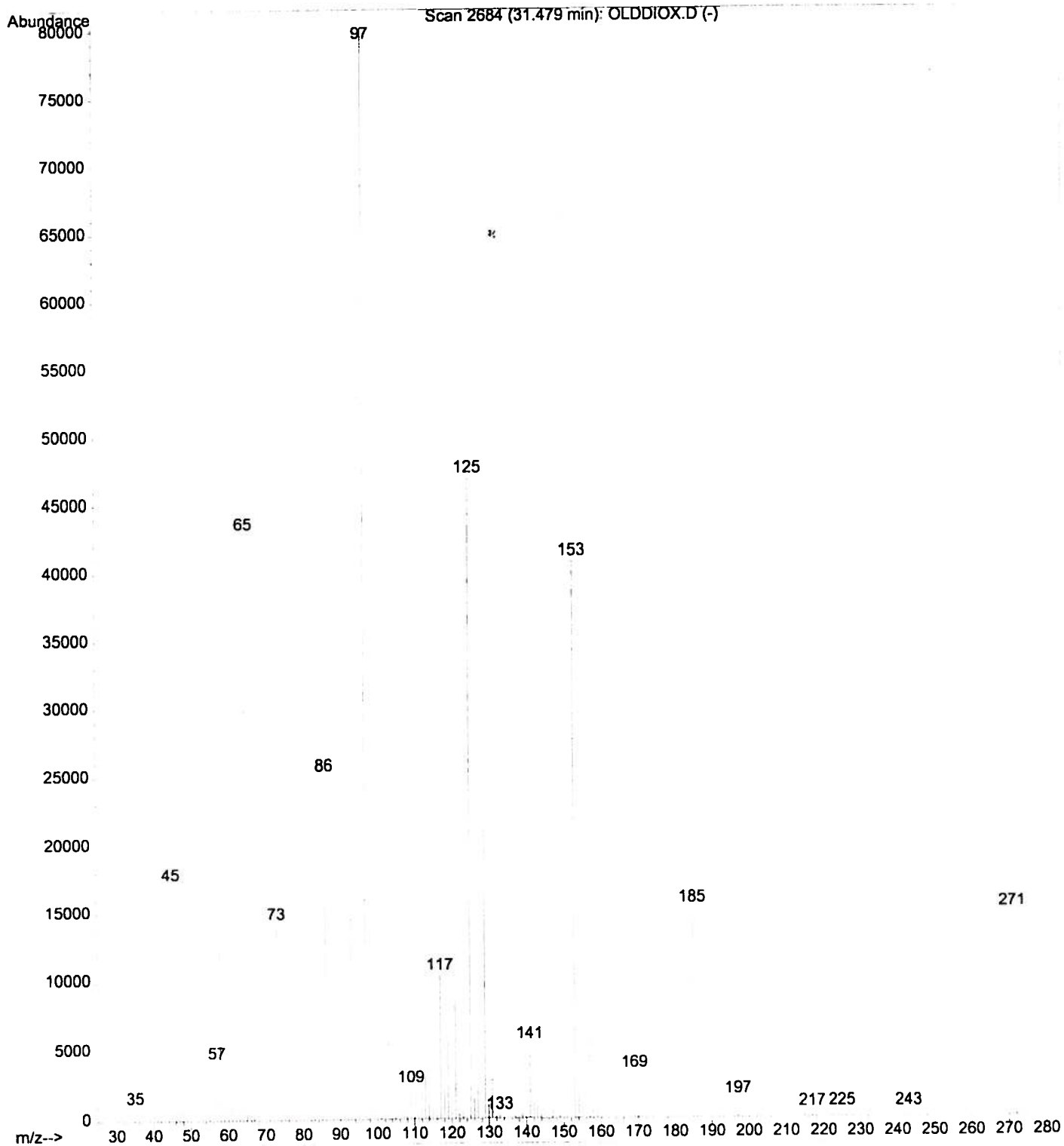
File : C:\HPCHEM\1\DATA\091499\OLDDIOX.D
Operator : jmr
Acquired : 14 Sep 99 4:40 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox.old std
Misc Info :
Vial Number: 25

OLD Std
1st peak @ 220°C

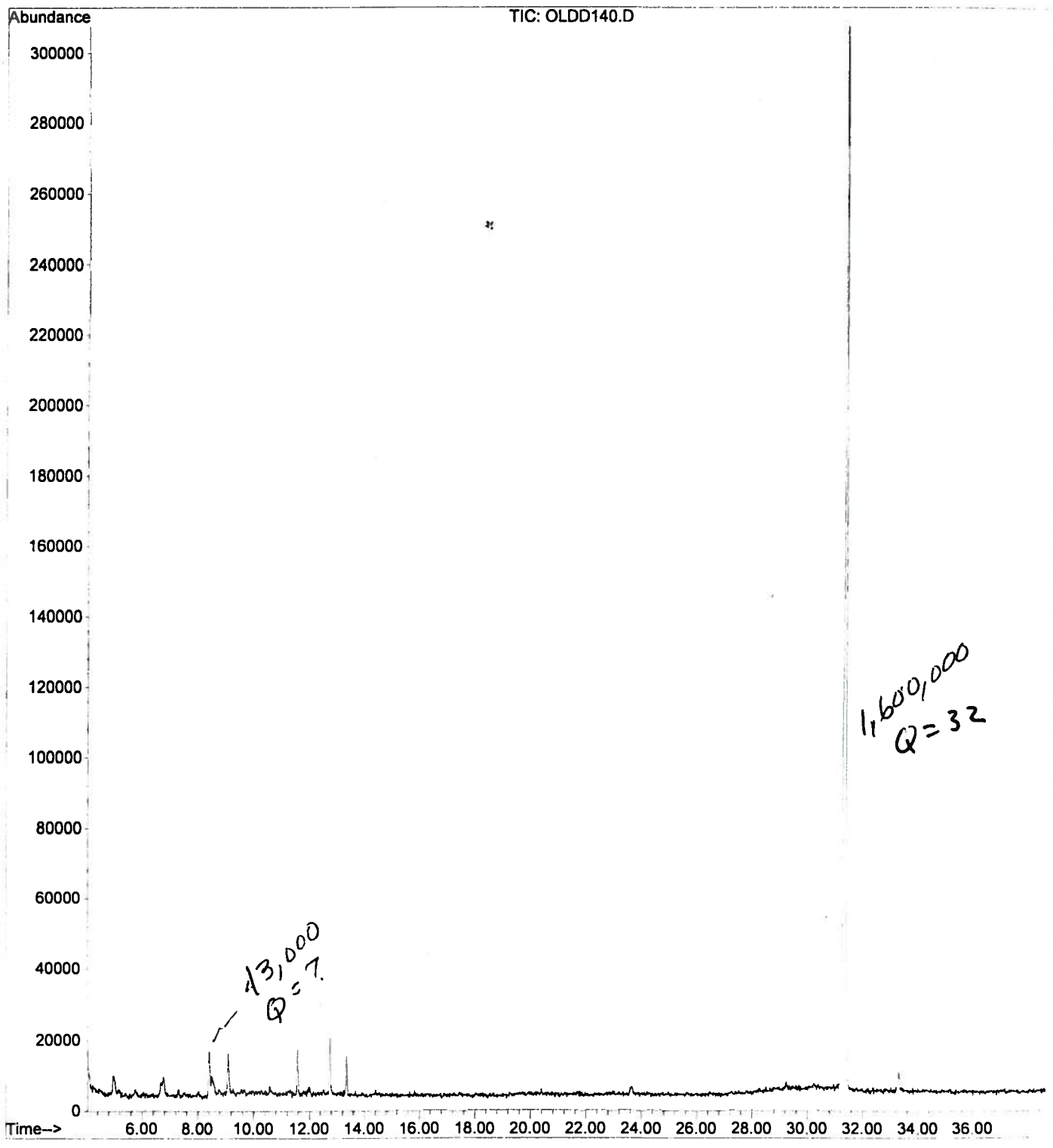


File : C:\HPCHEM\1\DATA\091499\OLDDIOX.D
Operator : jmr
Acquired : 14 Sep 99 4:40 pm using AcqMethod FPDDIOX
Instrument : GC/MS Ins
Sample Name: Diox.old std
Misc Info :
Vial Number: 25

OLD Std
2nd Peak @ 220°C

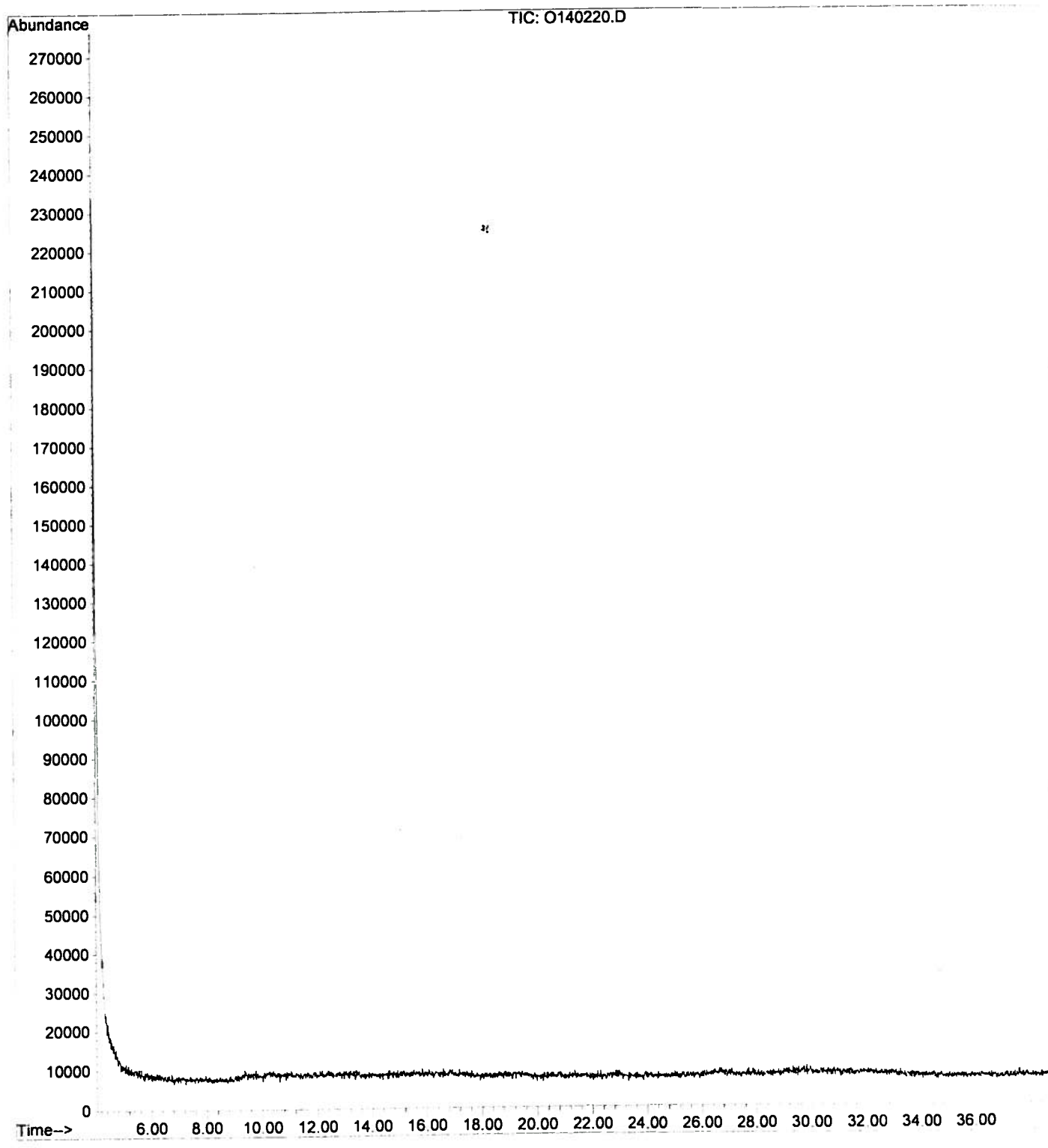


File : C:\HPCHEM\1\DATA\091499\OLDD140.D
Operator : jmr
Acquired : 14 Sep 99 6:40 pm using AcqMethod FPDD140
Instrument : GC/MS Ins *Inj port 140°*
Sample Name: Diox.old std 140
Misc Info :
Vial Number: 25



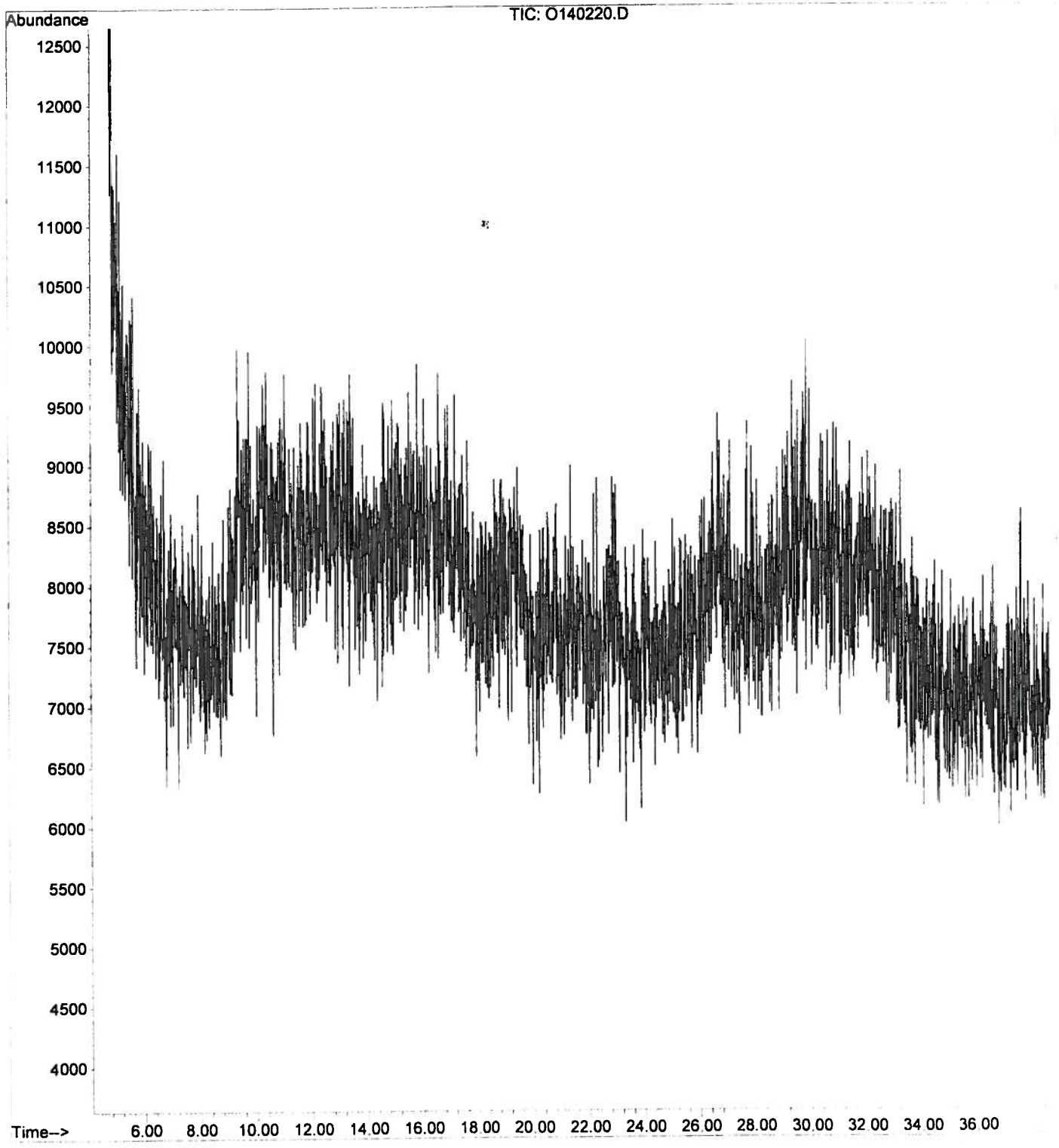
5

File : C:\HPCHEM\1\DATA\091599\0140220.D
Operator : jmr
Acquired : 15 Sep 99 8:57 am using AcqMethod FPDD140
Instrument : GC/MS Ins
Sample Name: Diox.old std 140 to 220 no injection
Misc Info :
Vial Number: 26



5

File : C:\HPCHEM\1\DATA\091599\0140220.D
Operator : jmr
Acquired : 15 Sep 99 8:57 am using AcqMethod FPDD140
Instrument : GC/MS Ins
Sample Name: Diox.old std 140 to 220 no injection
Misc Info :
Vial Number: 26



File : C:\HPCHEM\1\DATA\091599\140220A.D
Operator : jmr
Acquired : 15 Sep 99 10:53 am using AcqMethod FPDD140
Instrument : GC/MS Ins
Sample Name: Diox.old std 140 to 220 w/ chloropyrifos
Misc Info :
Vial Number: 25

