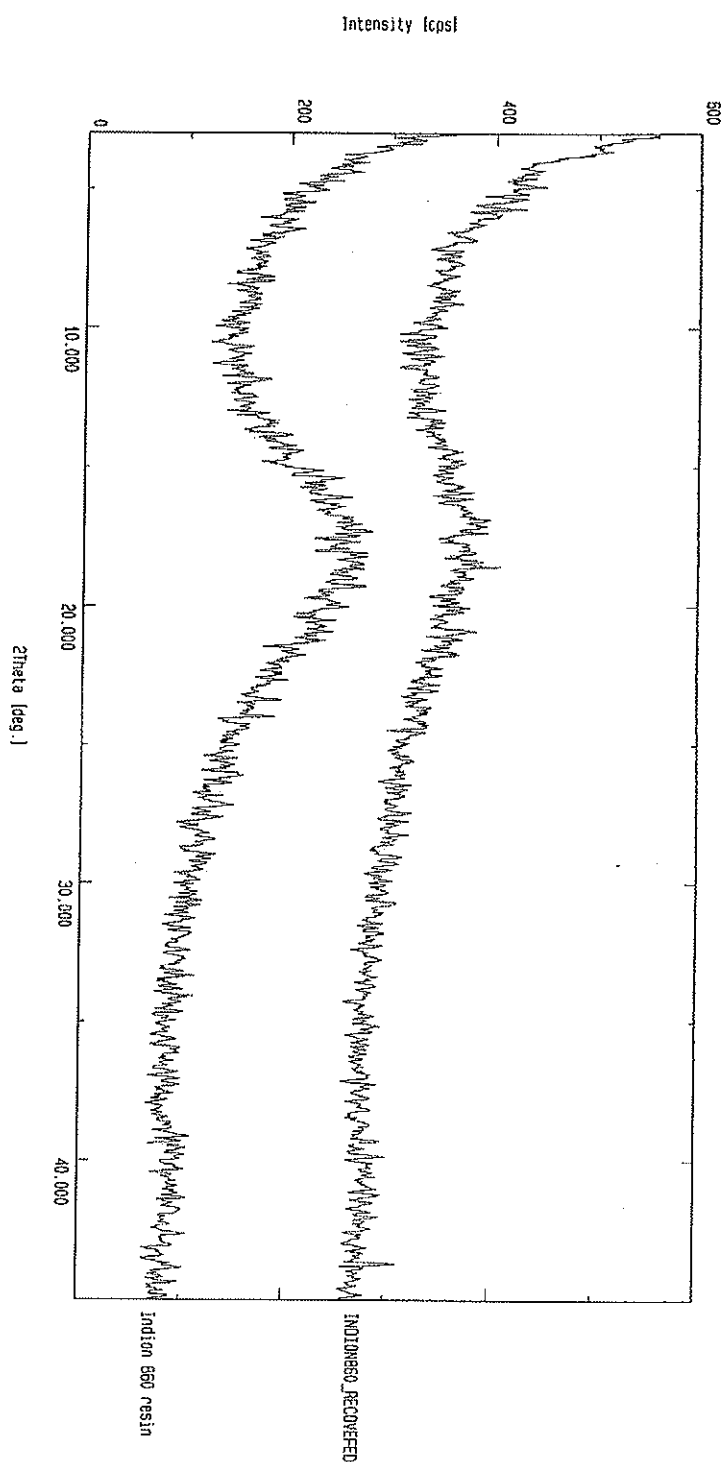


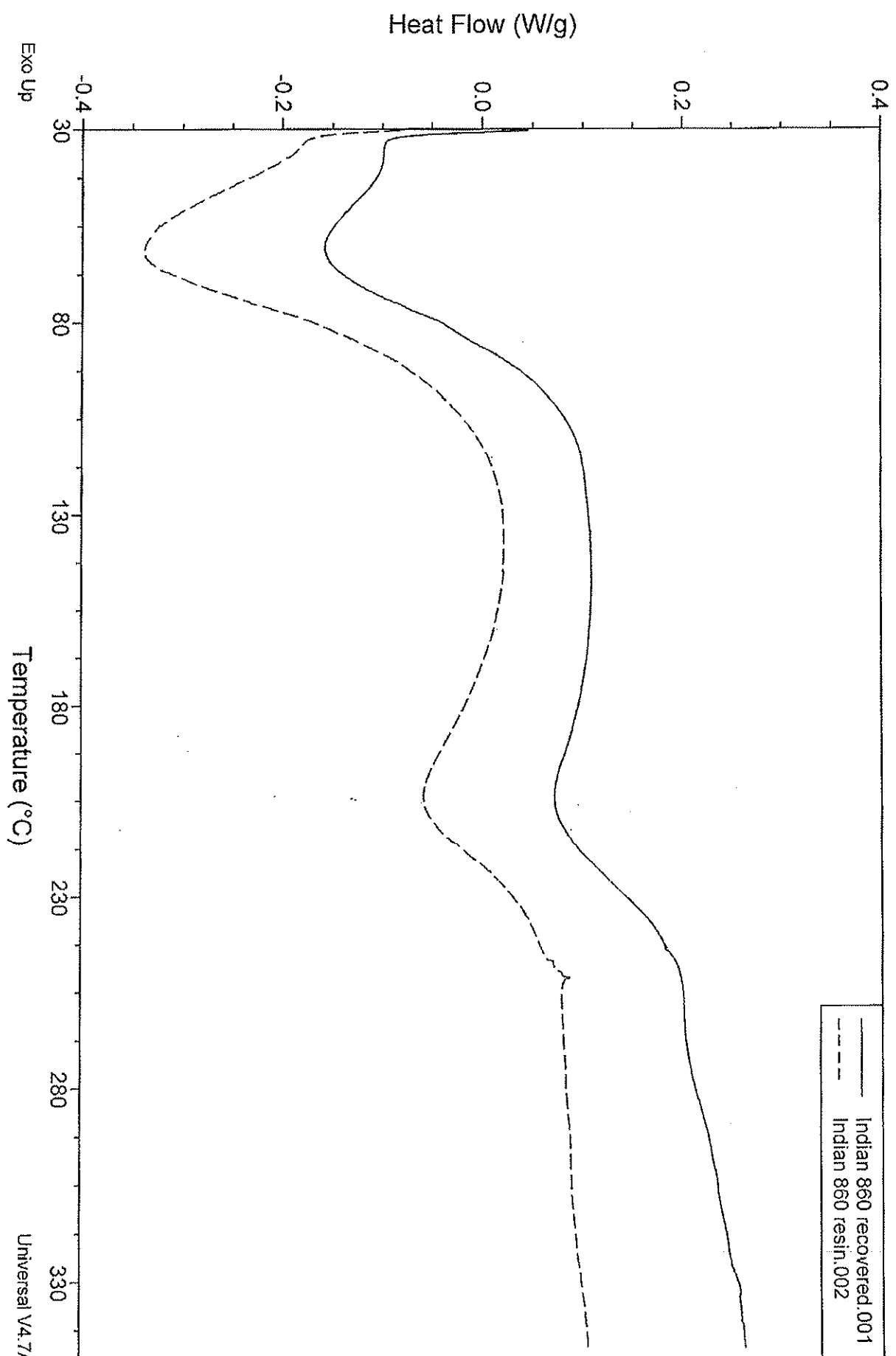
### Multi-Recording

Sample : Indian 860 resin  
File : PX-120913-033.1547  
Comment : TDC1/P138

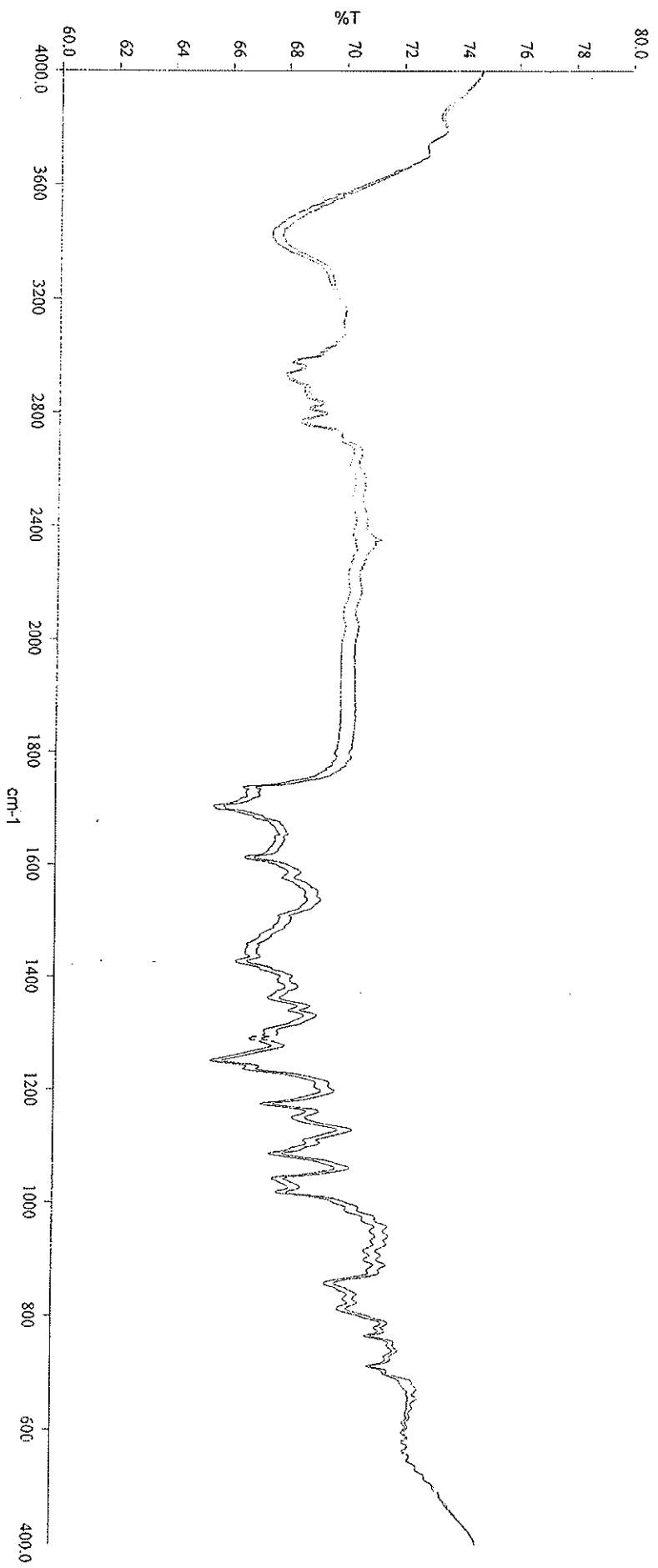
X-ray : CU K-ALPHA1 / 50 kV / 34 mA  
Gonio : RINT2000 Wide angle goniometer  
Attachment : Standard Sample Holder  
Filter : Not installed  
Monochro : Automatic monochromator  
Divergence slit: "1deg."  
Scattering slit: "1deg."  
Receiving slit: "0.15mm"

Counter : Scintillation counter  
Scan mode : CONTINUOUS  
Scan speed : 3 deg./min.  
Scan step : 0.02 deg.  
Scan axis : 2 Theta / Theta  
Scan range : 3 -> 45 deg.  
Theta offset: 0 deg.  
Sample rotation: 0 deg.





CUSTOM PHARMACEUTICAL SERVICES



Spectrum Name

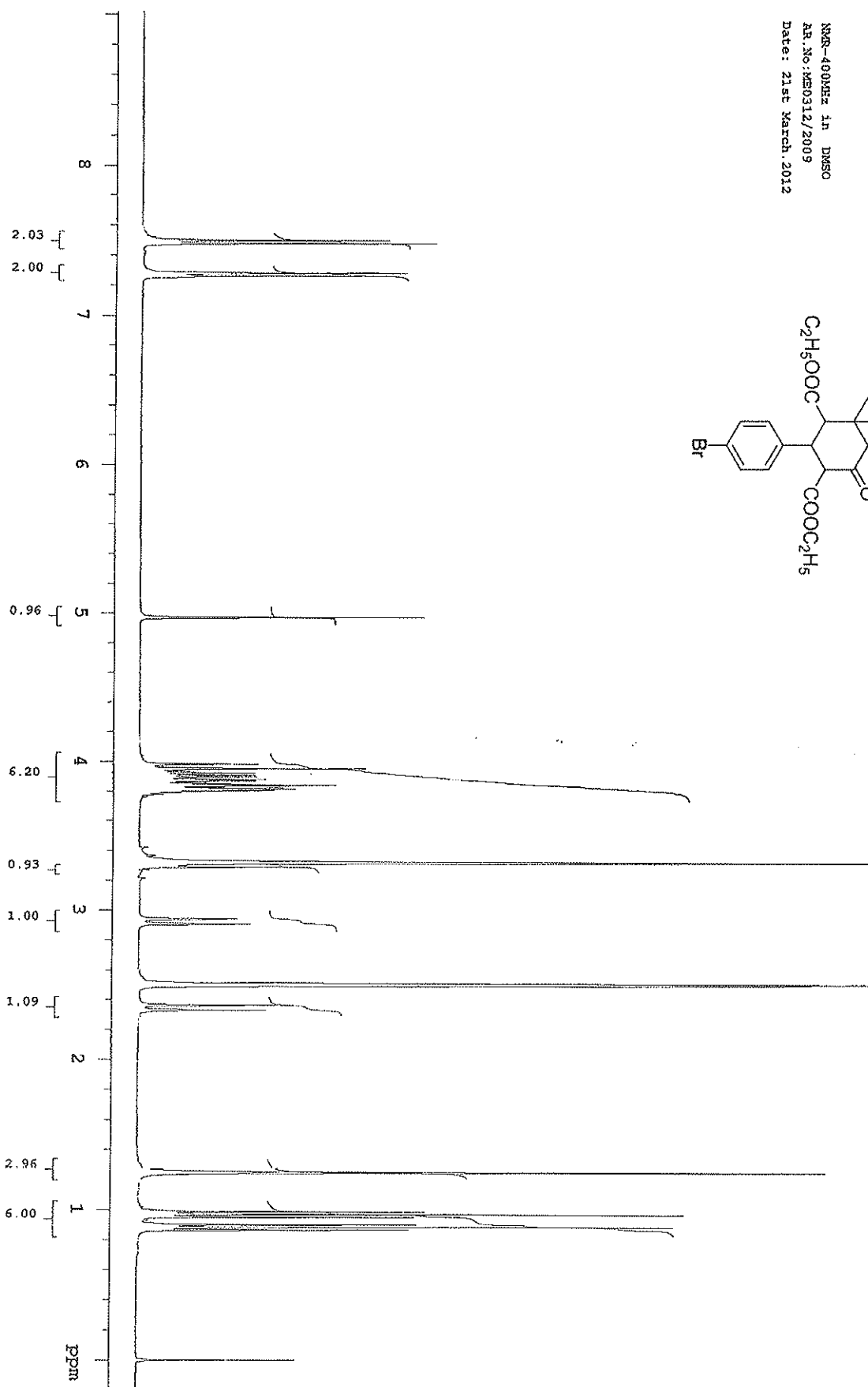
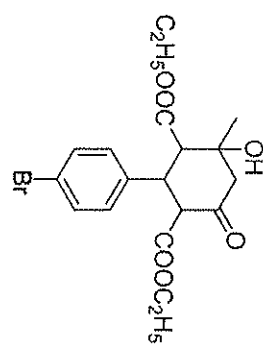
date: 9/14/2012 time: 2:21:46 PM

Indion 860 Resin Recovered

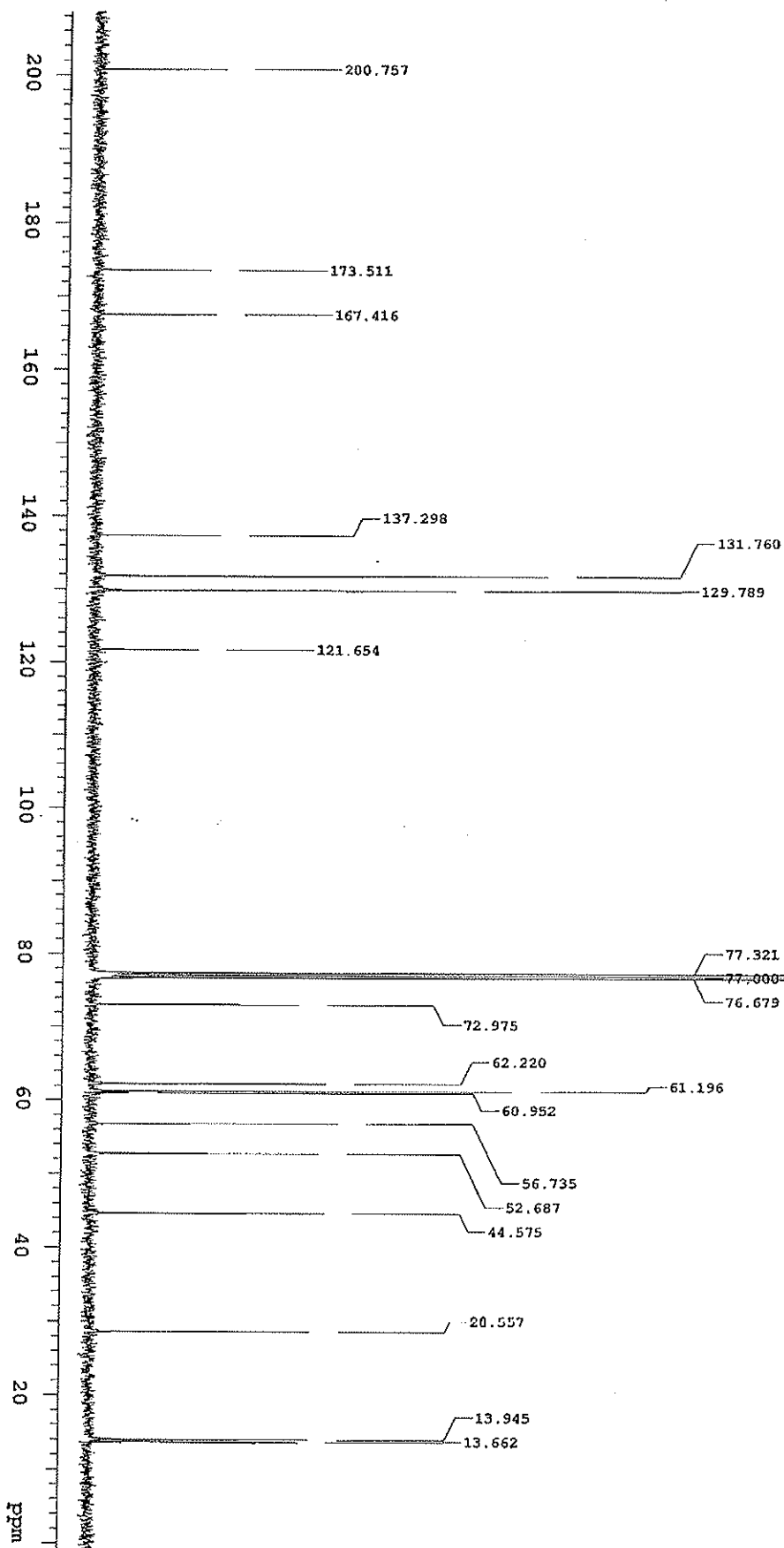
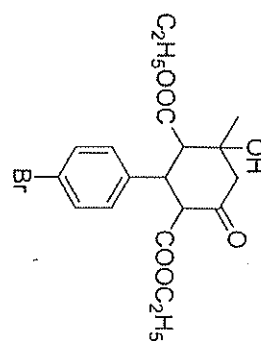
Indion 860 Resin

Correlation : 0.9988

NMR-400MHz in DMSO  
Ac.No:ME0312/2009  
Date: 21st March, 2012



NMR-400MHz in CDCl3  
R.N.No:ME0312/2985  
Date: 30th March, 2012



**Single Mass Analysis**

Tolerance = 5.0 PPM / DBE: min = -1.0, max = 40.0

Element prediction: Off

Number of Isotope peaks used for i-FIT = 2

Monoisotopic Mass, Even Electron Ions

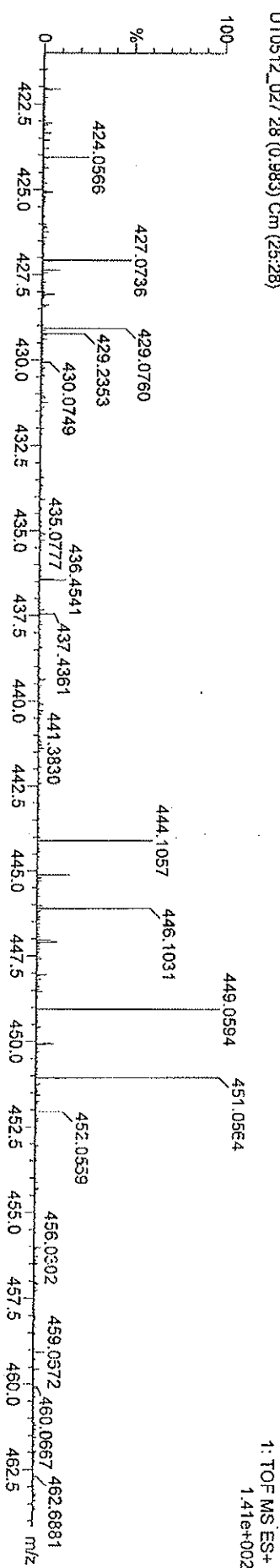
69 formula(e) evaluated with 1 results within limits (up to 5 best isotopic matches for each mass)

Elements Used:

C: 0-35 H: 0-35 O: 0-10 Br: 0-1

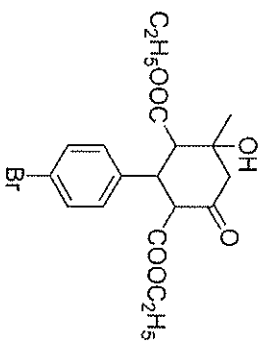
UT0512\_027 28 (0.983) Cm (25:28)

Dr.Reddy's Laboratories Ltd, ARD,TDC-1

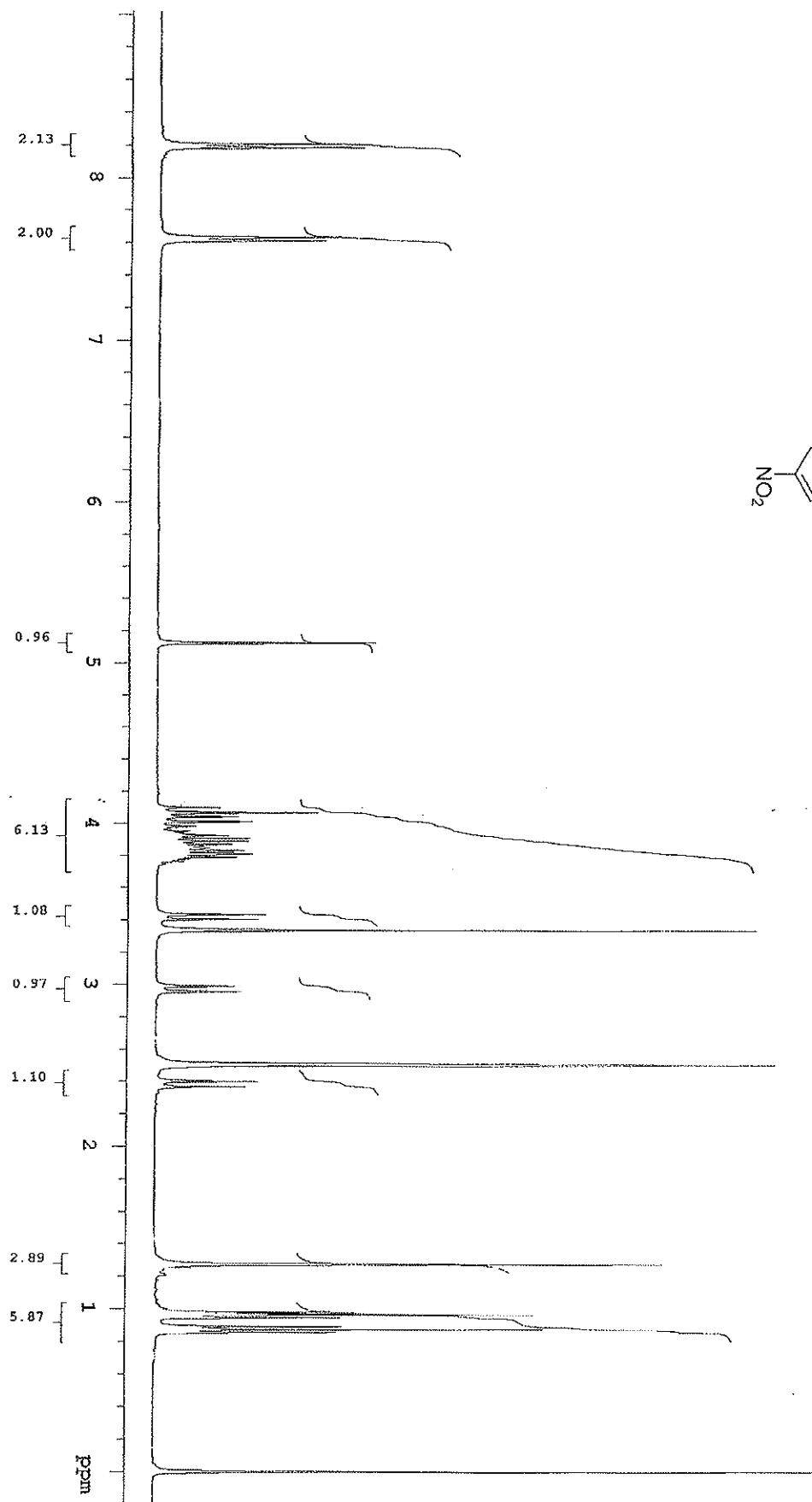
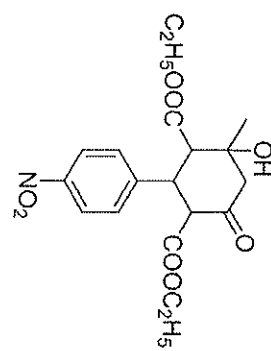


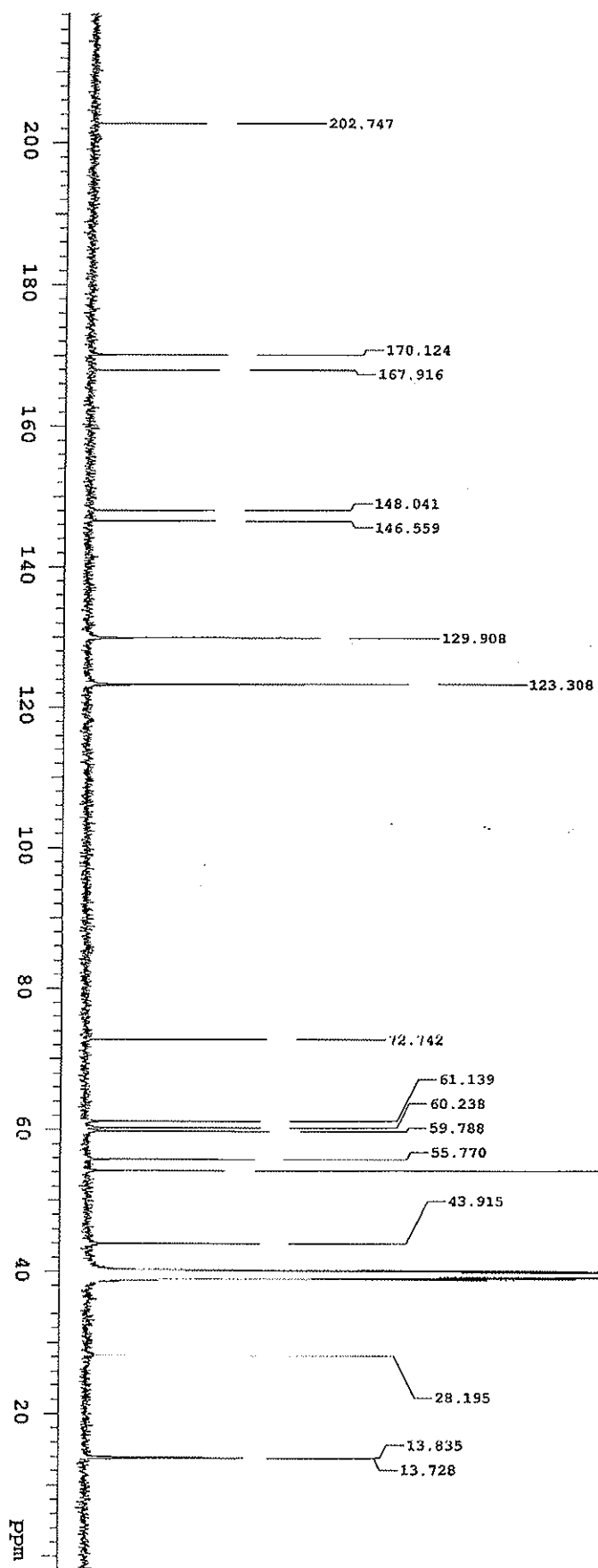
1: TOF MS ES+  
1.41e+002

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Formula
427.0736	427.0756	-2.0	-4.7	7.5	1.3	C19 H24 O6 Br

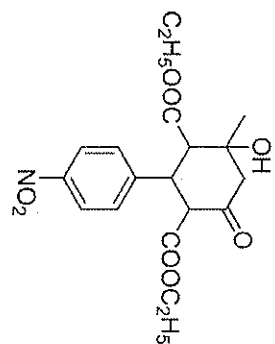


NMR-400MHz, 1% DMSO  
Ac. No: MED312/2899  
Date: 30th March, 2012





NMR-400MHz in DMSO  
AR.No:ME0712/1348  
Date:13th July, 2012





## Single Mass Analysis

Tolerance = 5.0 PPM / DBE: min = -1.0, max = 40.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 2

Monoisotopic Mass, Even Electron Ions

32 formula(e) evaluated with 1 results within limits (up to 5 best isotopic matches for each mass)

Elements Used:

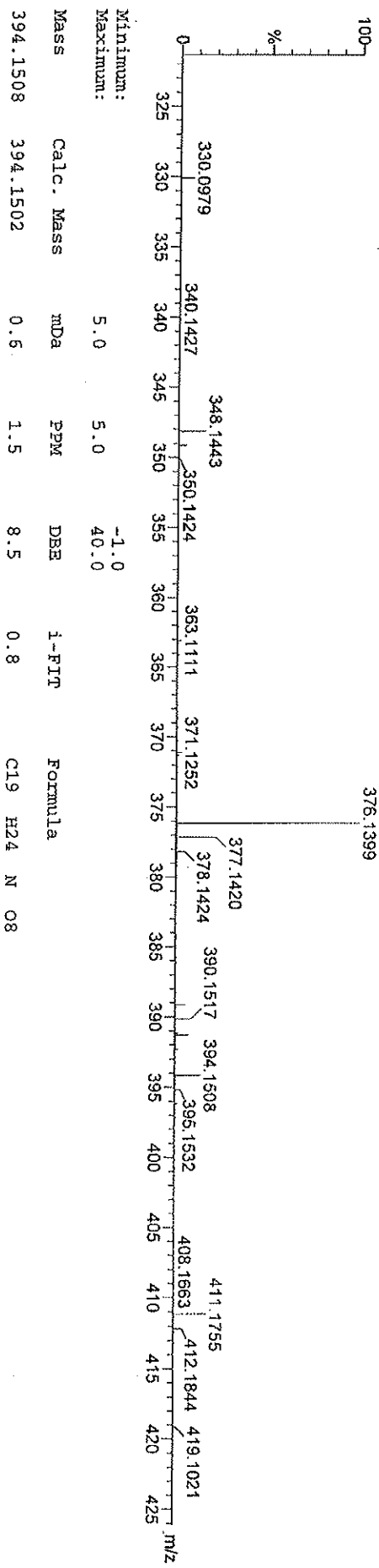
C: 0-25 H: 0-35 N: 0-1 O: 0-8

Dr.Reddy's Laboratories Ltd, ARD, TDC-1

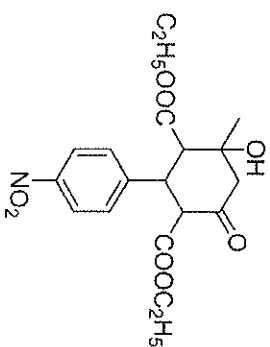
UT0512\_056 5 (0.198) Cm (5:8-(1+13:16)X0.010)

1: TOF MS ES+

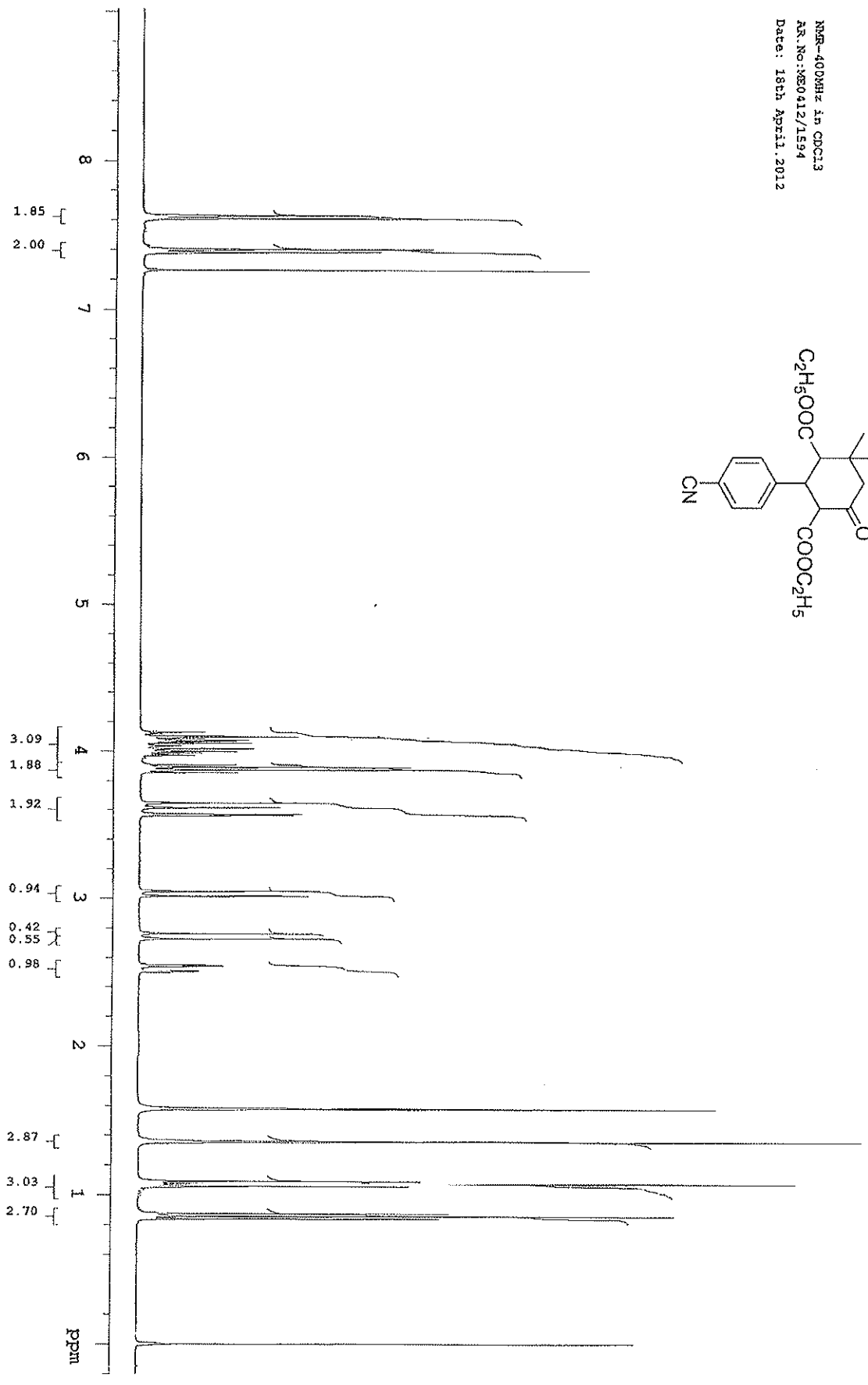
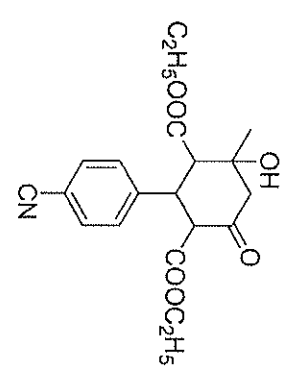
1.69e+003

Minimum: 5.0  
Maximum: 5.0  
-1.0  
40.0

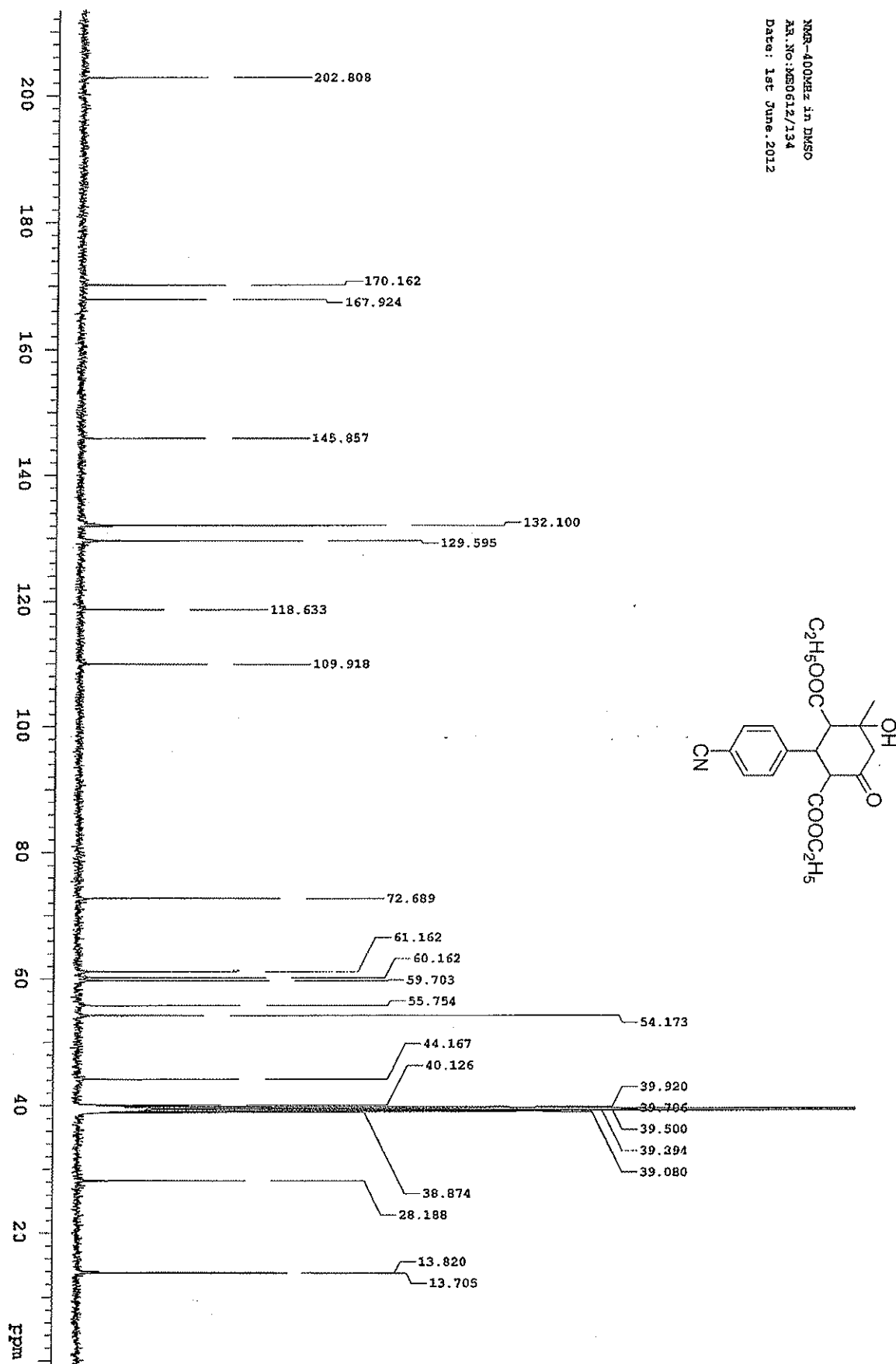
Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Formula
394.1508	394.1502	0.6	1.5	8.5	0.8	C19 H24 N O8



NMR-400MHz in CDCl3  
R.R.No:VE0012/1594  
Date: 18th April, 2012



NMR-400MHz in DMSO  
Ac. No: MS0612/134  
Date: 1st June, 2012



**Single Mass Analysis**

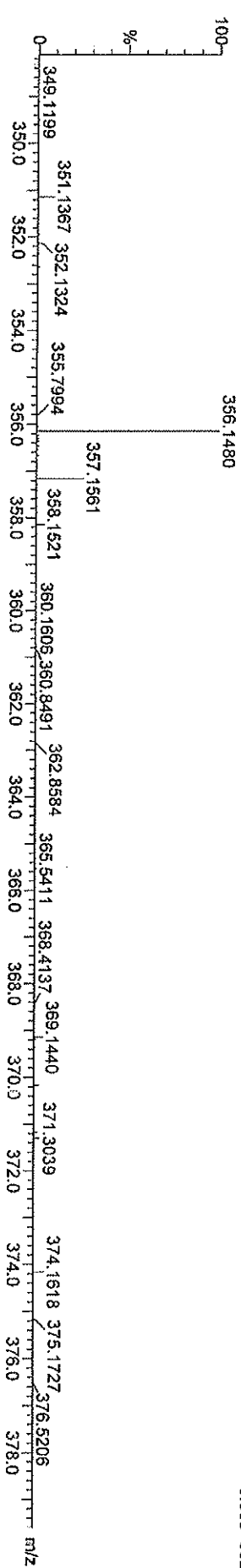
Tolerance = 5.0 PPM / DBE: min = -1.0, max = 40.0  
 Element prediction: Off  
 Number of isotope peaks used for i-FIT = 2

Monoisotopic Mass, Even Electron Ions  
 37 formula(e) evaluated with 1 results within limits (up to 5 best isotopic matches for each mass)  
 Elements Used:  
 C: 0-30 H: 0-30 N: 0-1 O: 0-6

Dr.Reddy's Laboratories Ltd, ARD, TDC-1

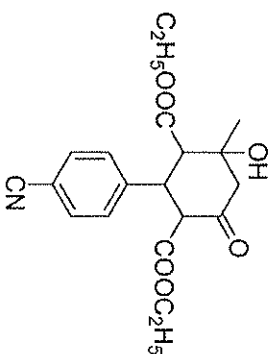
LT0512\_049 4 (0.138) Cm (4:5)

1: TOF MS ES+  
 6.08e+002



Minimum: 5.0  
 Maximum: 5.0  
 -1.0  
 40.0

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Formula
374.1618	374.1604	1.4	3.7	9.5	0.3	C20 H24 N O6

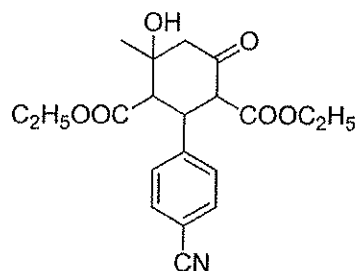


### SAMPLE INFORMATION

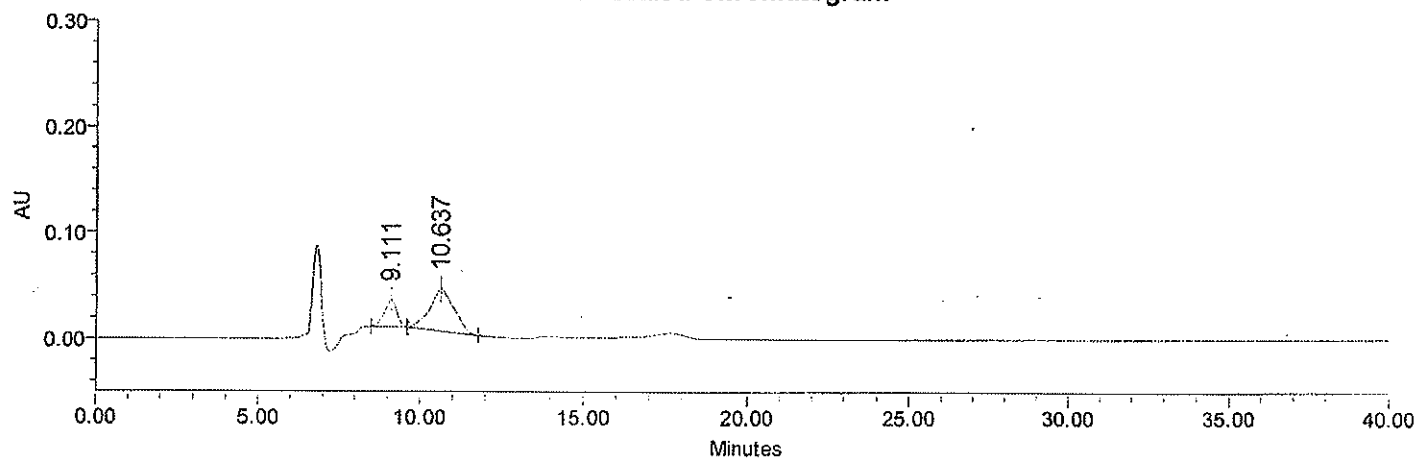
Sample_Type	: Unknown	Acquired By	: System
Injection Volume	: 63	Date Acquired	: 10/3/2012 7:15:37 PM
Vial no	: 10.00 ul	Channel Name	: PDA 254.0 nm
Run Time	: 40.00 Minutes	Acq Method Set	: CHIRAL
System Name	: HPLC_005_PDA	Date Processed	: 10/4/2012 11:58:05 AM
Sample Set Name	: 12100302	Project Name	: Alliance_005_OCT_2012
Injection #	: 1	Processing Method	: H

### HPLC CONDITIONS

Column : chiral pak AD-H(250\*4.6)mm5µm  
Mobile\_phase : Ethanol:MeOH:DEA(800:200:1)  
Diluent : DCM  
Flow rate : 0.5 mL/min,  
Column temp : 27 °C, inj vol:5µl  
Wavelength : 254.0 nm



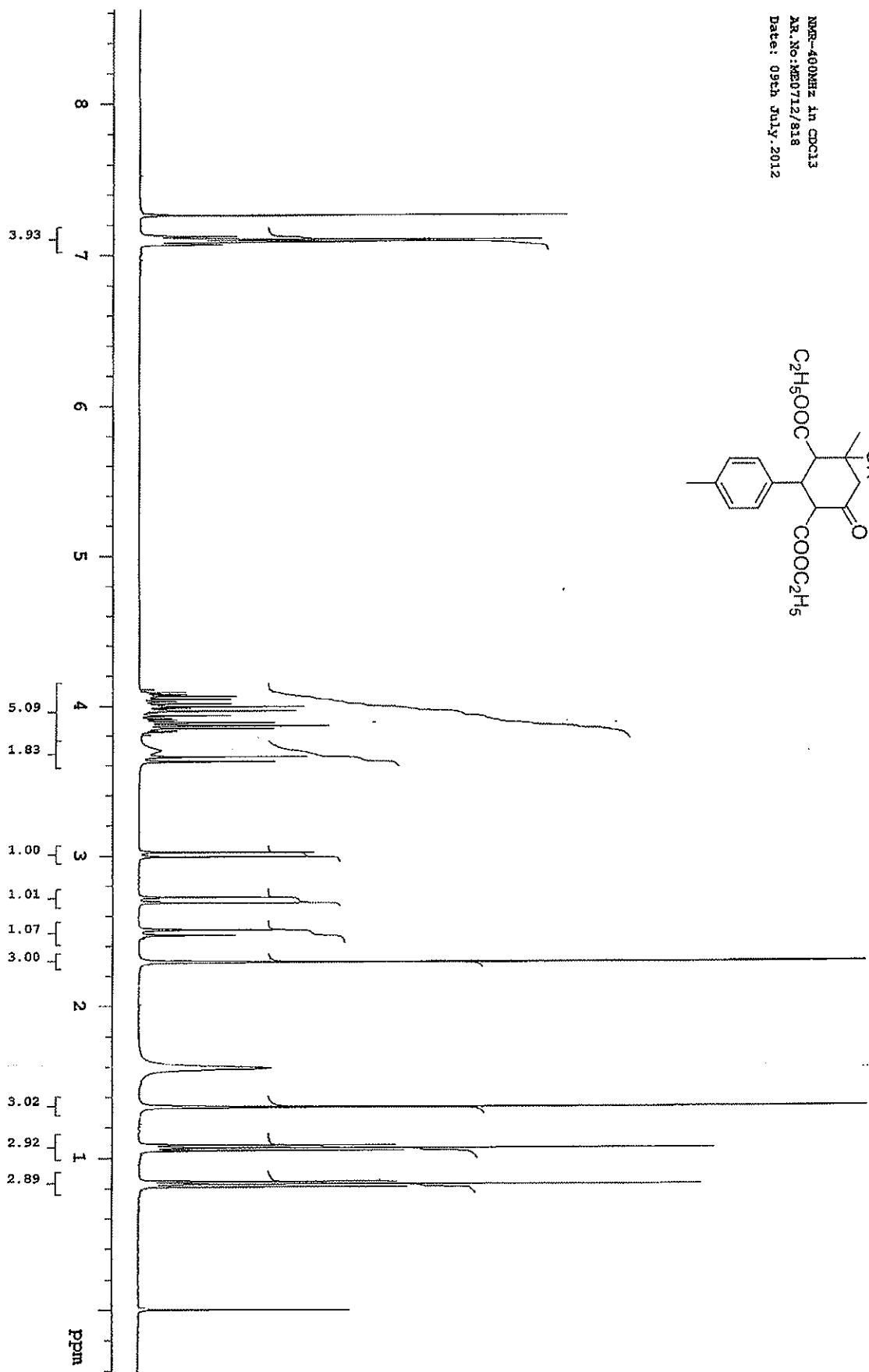
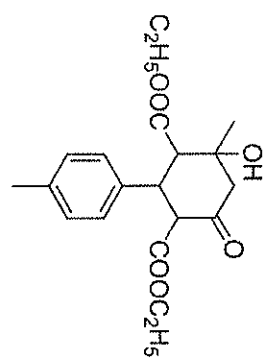
### Auto-Scaled Chromatogram



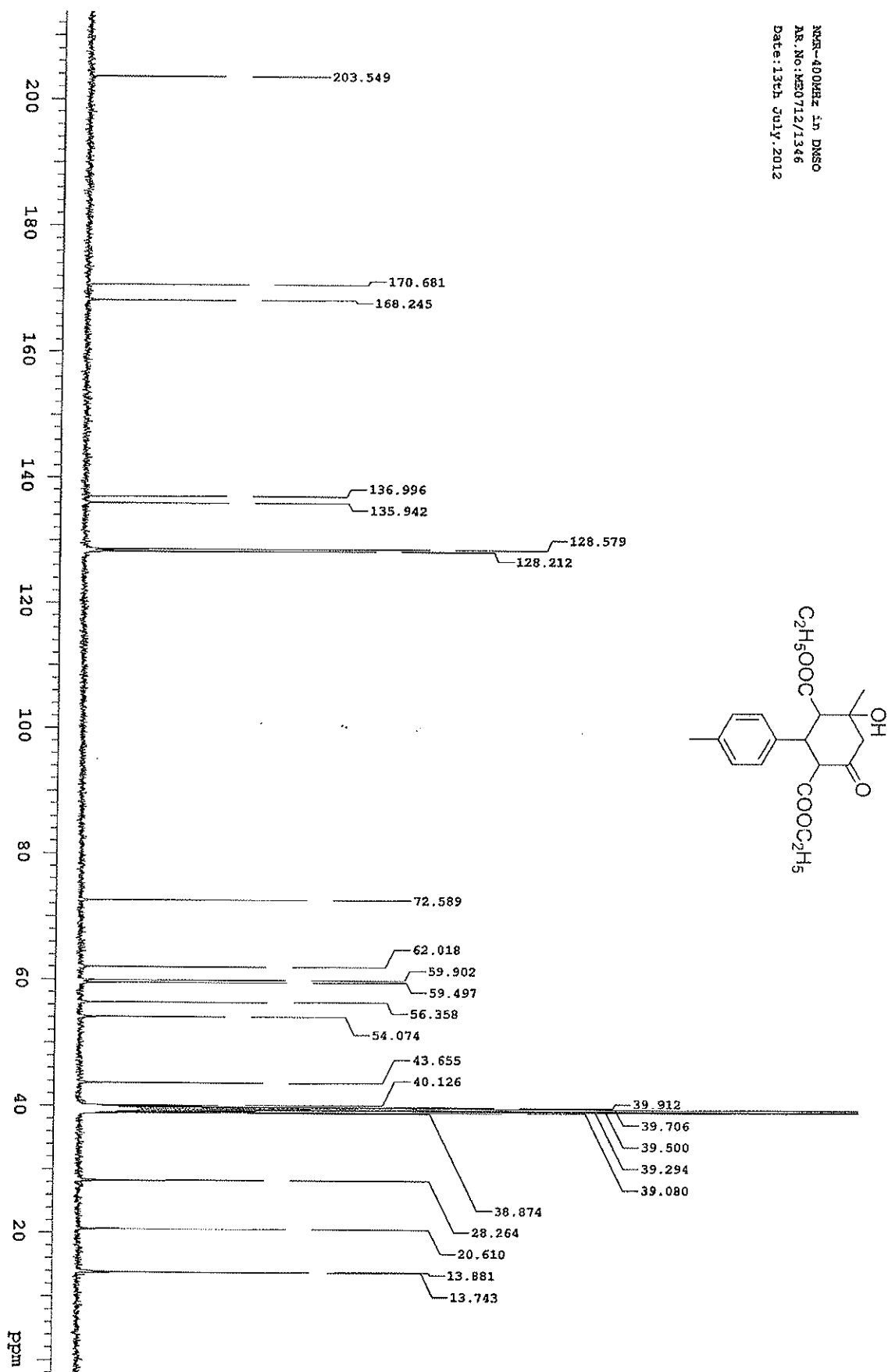
### Peak Results

Name	RT	Area	% Area
1	9.111	653062	23.96
2	10.637	2072206	76.04

NMR-400MHz in CDCl3  
Ac.No:MR0712/818  
Date: 09th July, 2012



NMR-400MHz in DMSO  
RR.No:ME0712/1346  
Date:13th July,2012



### Elemental Composition Report

#### Single Mass Analysis

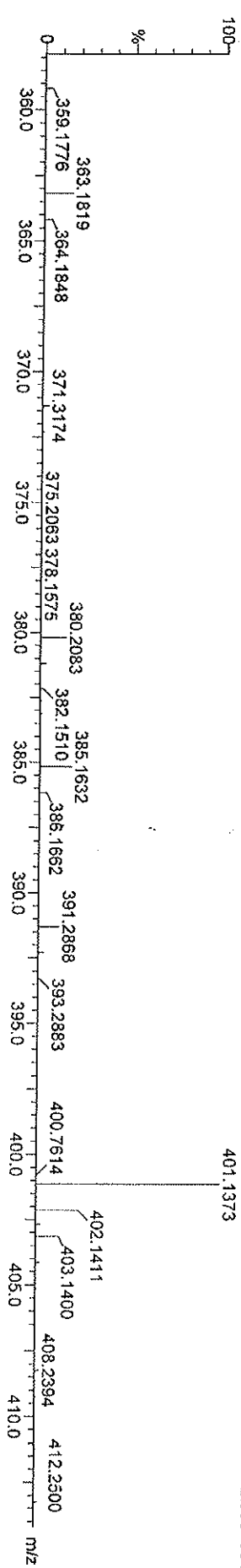
Tolerance = 5.0 PPM / DBE: min = -1.0, max = 40.0  
 Element prediction: Off  
 Number of isotope peaks used for i-FIT = 2

Monoisotopic Mass, Even Electron Ions  
 28 formula(e) evaluated with 1 results within limits (up to 5 best isotopic matches for each mass)  
 Elements Used:  
 C: 0-25 H: 0-35 O: 0-10

Dr.Reddy's Laboratories Ltd, ARD, TDC-1

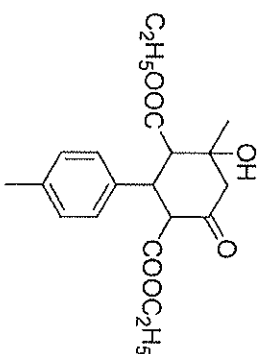
UT0512\_021 21 (0.762) Cm (17:27-2:8x0.010)

1: TOF MS ES+  
 2.03e+004



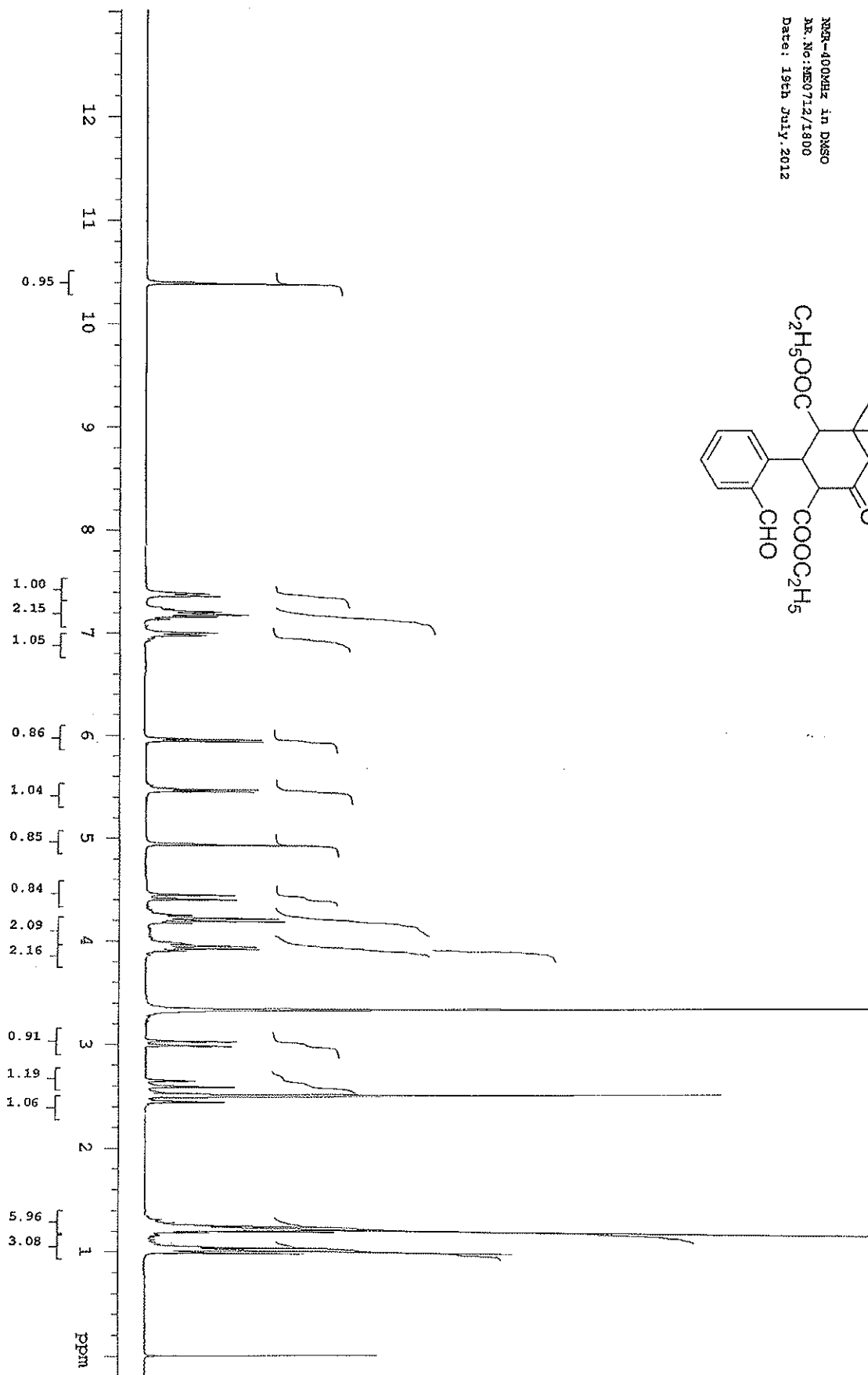
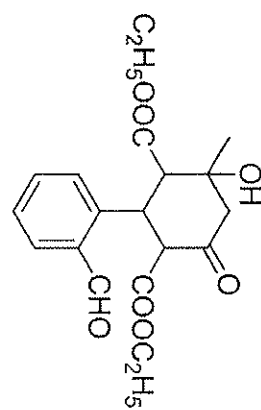
Minimum: 5.0  
 Maximum: 5.0  
 -1.0  
 40.0

Mass	Calc. Mass	MDa	PPM	DBE	i-FIT	Formula
363.1819	363.1808	1.1	3.0	7.5	1.9	C20 H27 O6

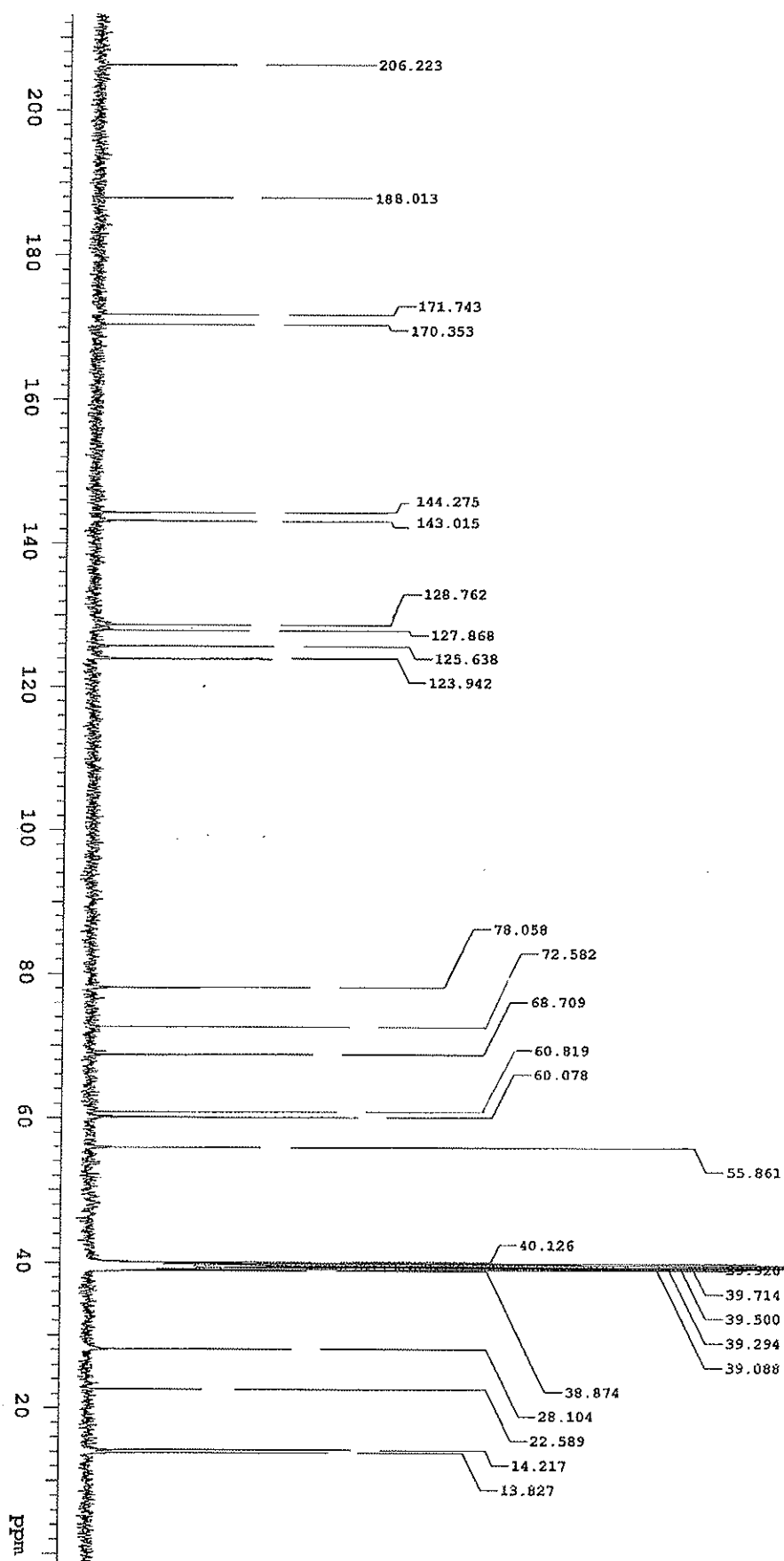
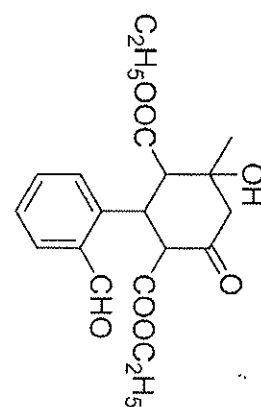




<sup>1</sup>H NMR-400MHz in DMSO  
Ac. No: ME0712/1800  
Date: 19th July, 2012



NMR-400MHz in CDCl3  
Ac.No:ME0612/2953  
Date:29th June,2012



## Single Mass Analysis

Tolerance = 5.0 PPM / DBE: min = -1.0, max = 40.0

Element prediction: Off

Number of isotopic peaks used for i-FIT = 2

Monoisotopic Mass, Even Electron Ions

22 formula(e) evaluated with 1 results within limits (up to 5 best isotopic matches for each mass)

Elements Used:

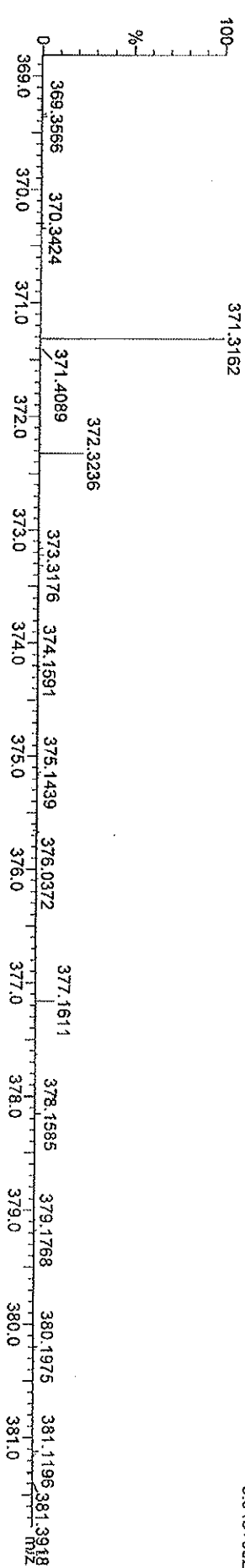
C: 0-25 H: 0-35 O: 0-10

Dr.Reddy's Laboratories Ltd, ARQ, TDC-1

UT0512\_024 24 (0.841) Cm (21:29-5:13x0.010)

1: TOF MS ES+

5.94e+002



Minimum:

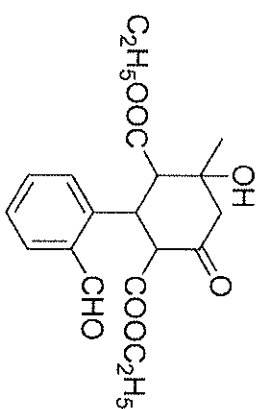
Maximum: 5.0

5.0

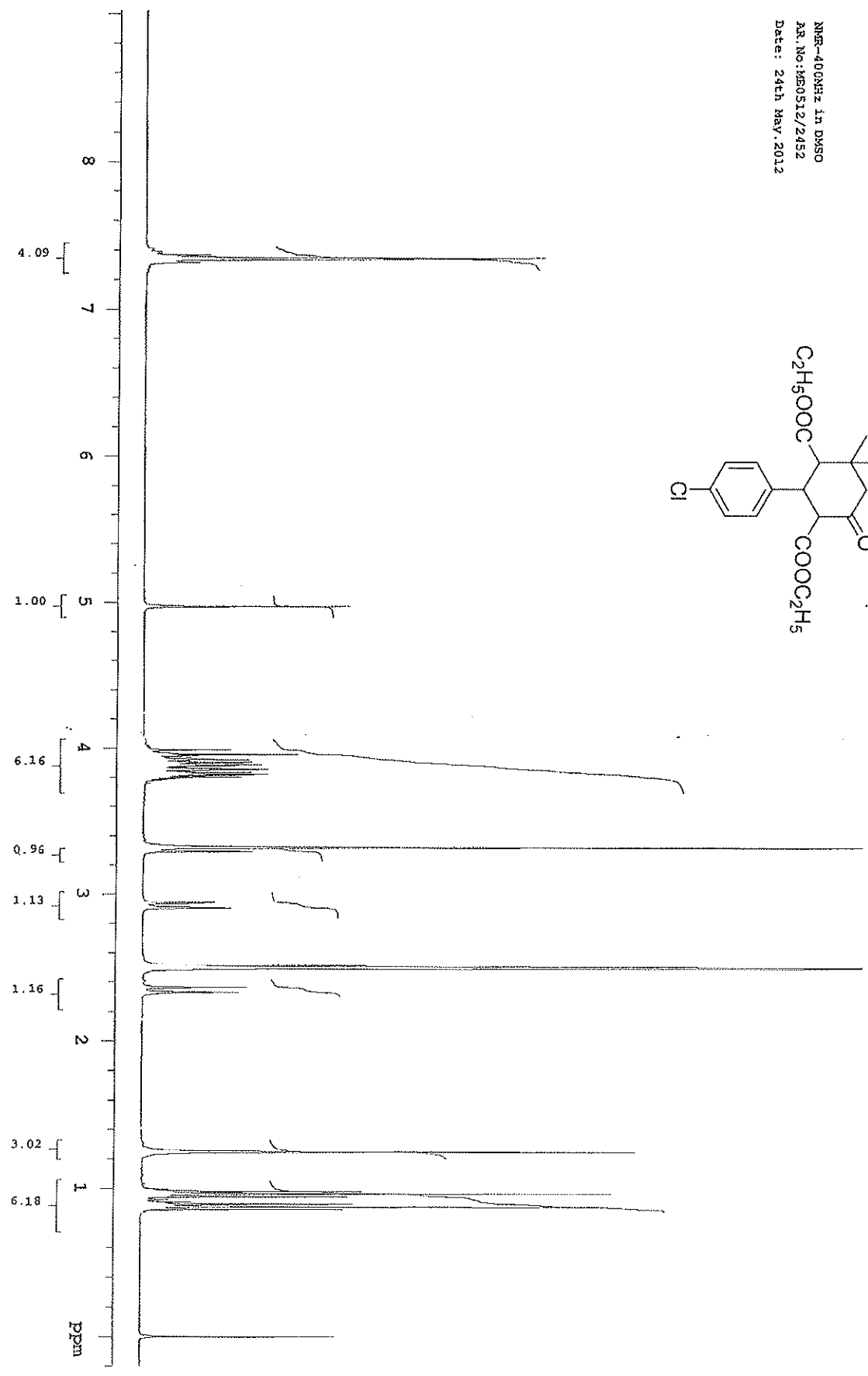
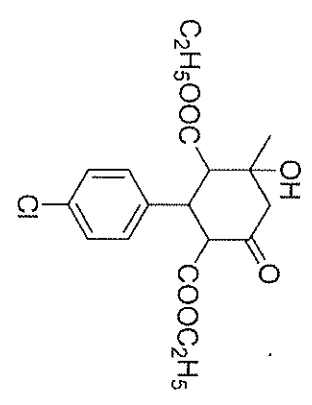
-1.0

40.0

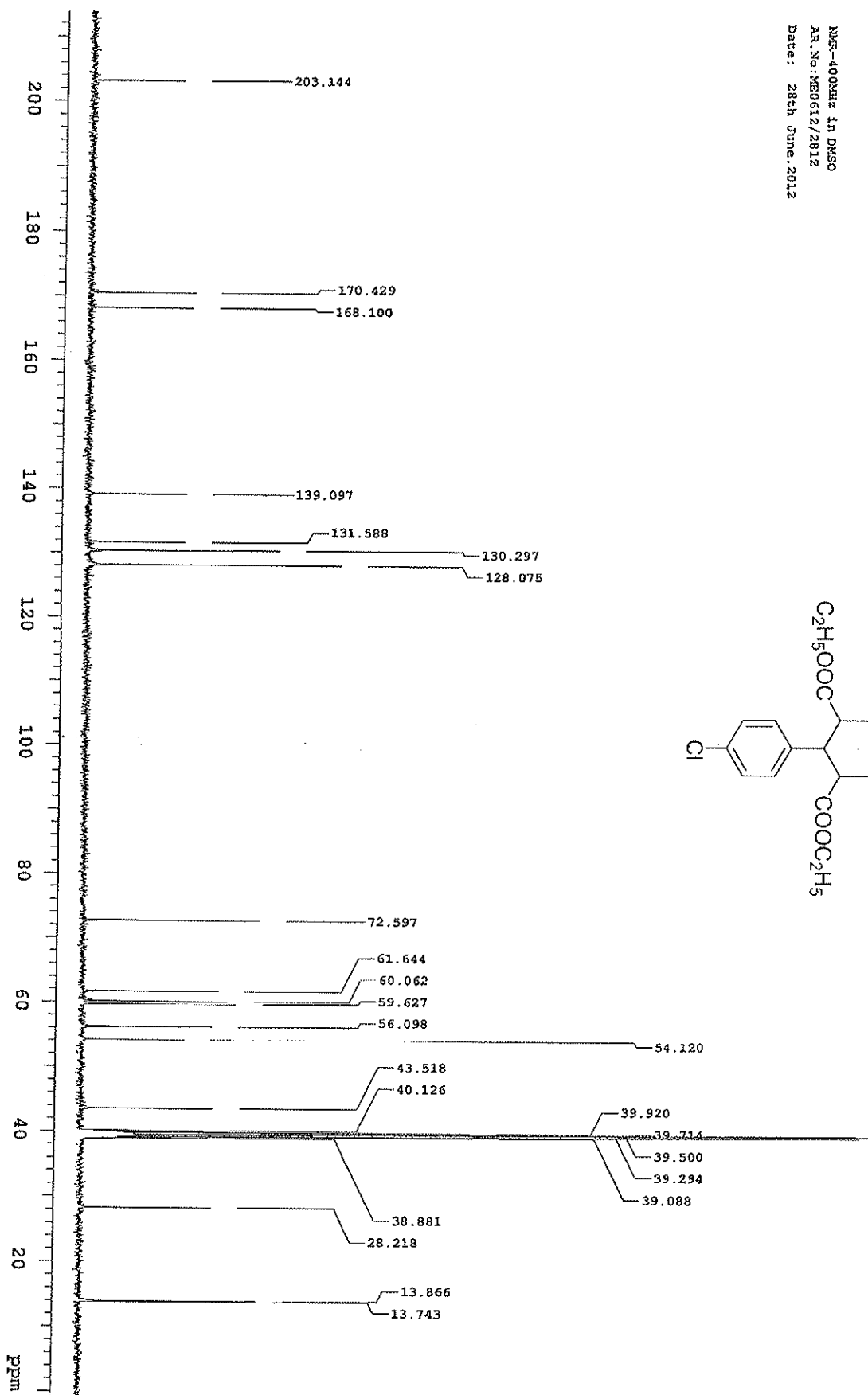
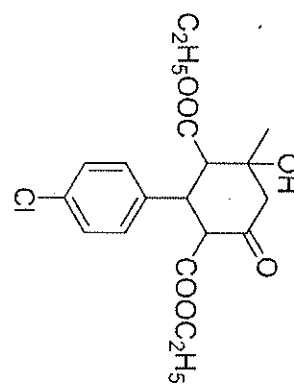
Mass	Calc. Mass	MDA	PPM	DBE	i-FIT	Formula
377.1611	377.1600	1.1	2.9	8.5	0.5	C20 H25 O7



NMR-400MHz in DMSO  
AR.No:ME0512/2452  
Date: 24th May 2012



NMR-400MHz in DMSO  
Ac.No:ME0612/2812  
Date: 28th June, 2012



## Single Mass Analysis

Tolerance = 5.0 PPM / DBE: min = -1.0, max = 80.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions  
 35 formula(e) evaluated with 2 results within limits (up to 4 closest results for each mass)

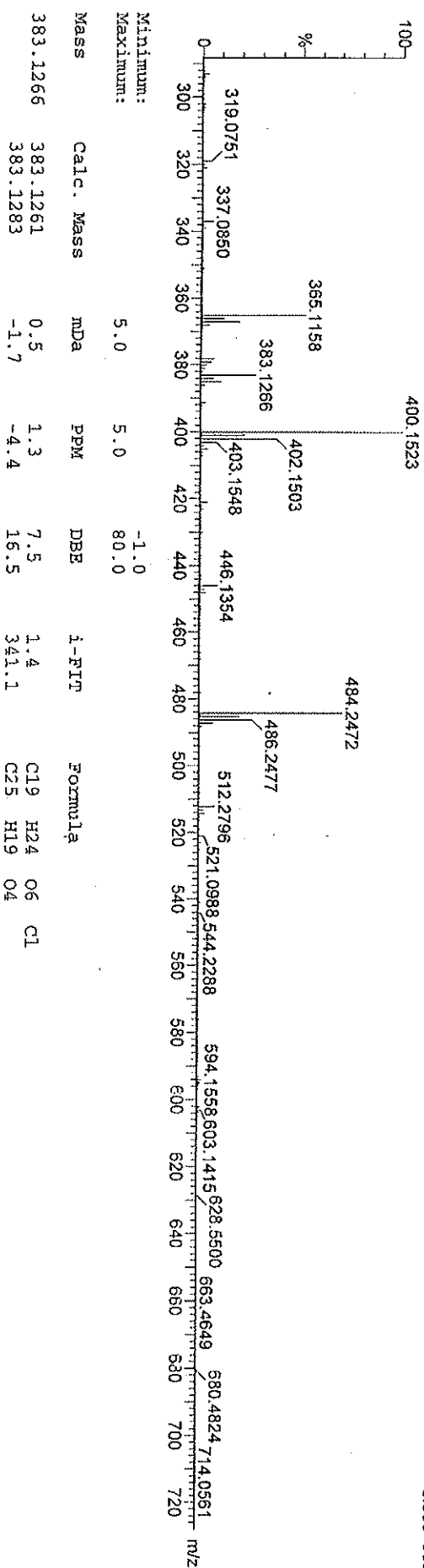
Elements Used:

C: 0-25 H: 0-25 O: 0-6 Cl: 0-2

A786/CSAT1/063

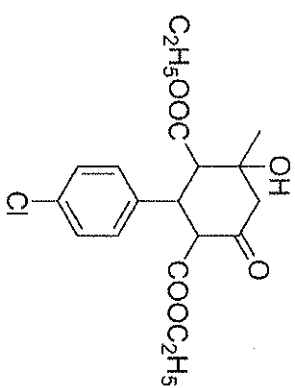
U10712\_41 16 (0.293) Cm (16:20)

Dr.Reddy's Laboratories Ltd, ARD, TDC-1

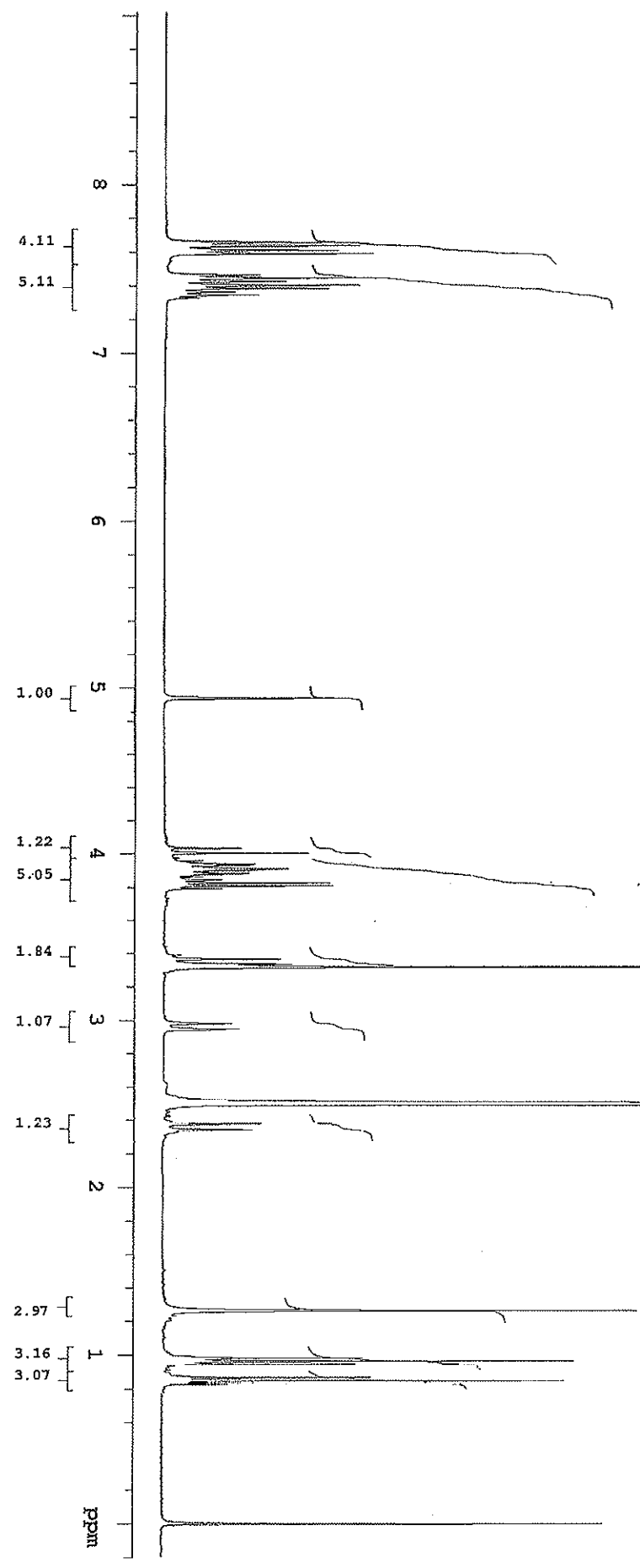
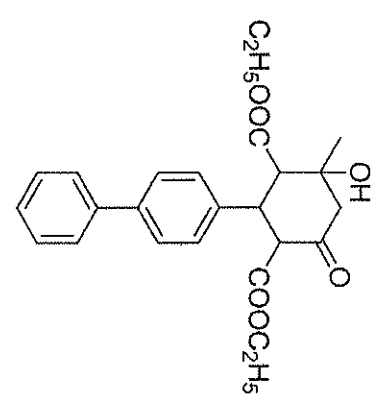
1: TOF MS ES+  
8.56e+003

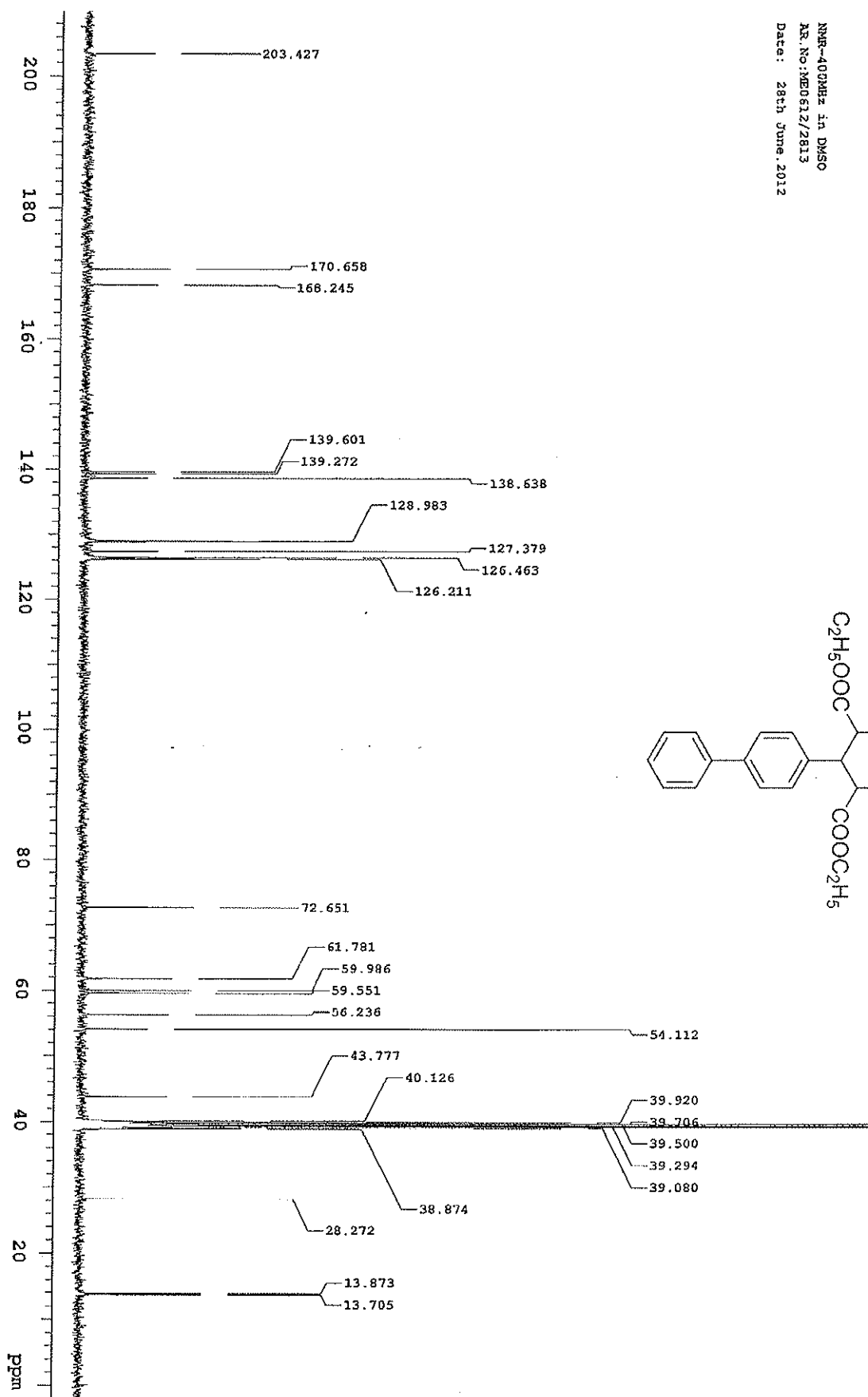
Minimum: 5.0  
 Maximum: 5.0  
 -1.0  
 80.0

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Formula
383.1266	383.1261	0.5	1.3	7.5	1.4	C19 H24 O6 Cl
383.1283	383.1283	-1.7	-4.4	16.5	341.1	C25 H19 O4

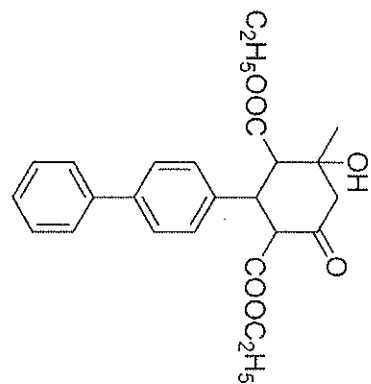


NMR-400MHz in DMSO  
R.N: ME0512/2451  
Date: 24th May 2012





NMR-400MHz in DMSO  
Ac. No: ME0612/2813  
Date: 28th June.2012





**Single Mass Analysis**

Tolerance = 5.0 PPM / DBE: min = -1.0, max = 80.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions

10 formula(e) evaluated with 1 results within limits (up to 4 closest results for each mass)

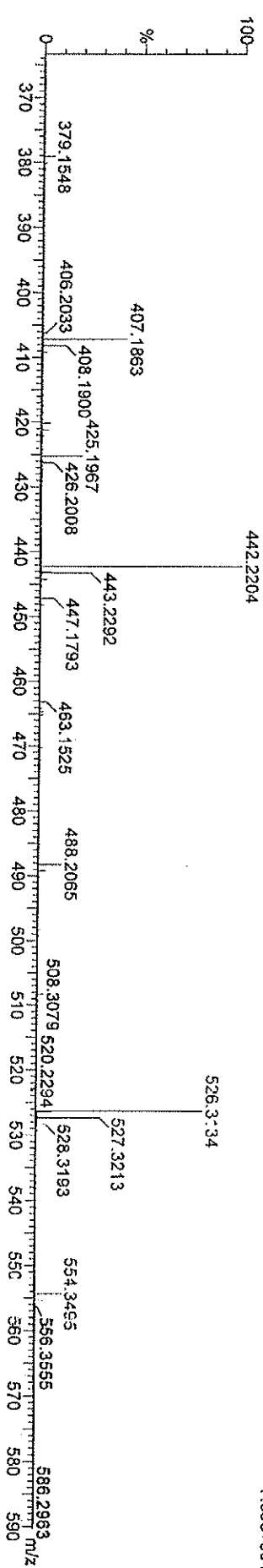
Elements Used:

C: 0-30 H: 0-30 O: 0-6

UT0712\_42 14 (0.265) Cm (13:24)

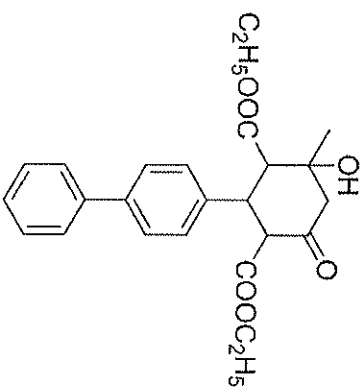
Dr.Reddy's Laboratories Ltd, ARD, TDC-1

1: TOF MS ES+  
7.03e+004

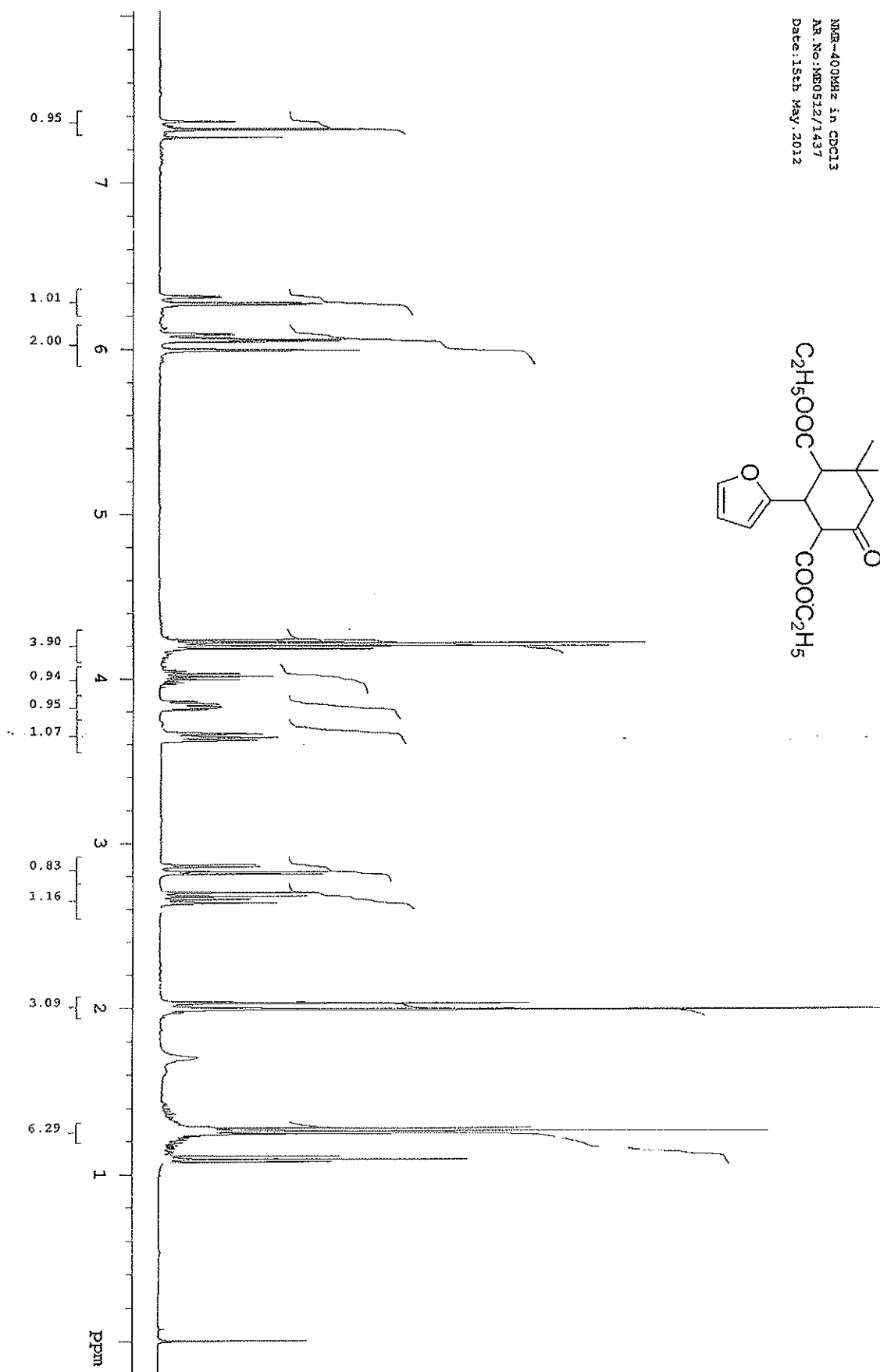
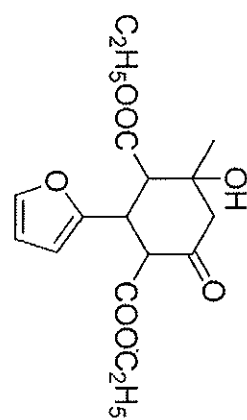


Minimum: 5.0  
Maximum: 5.0

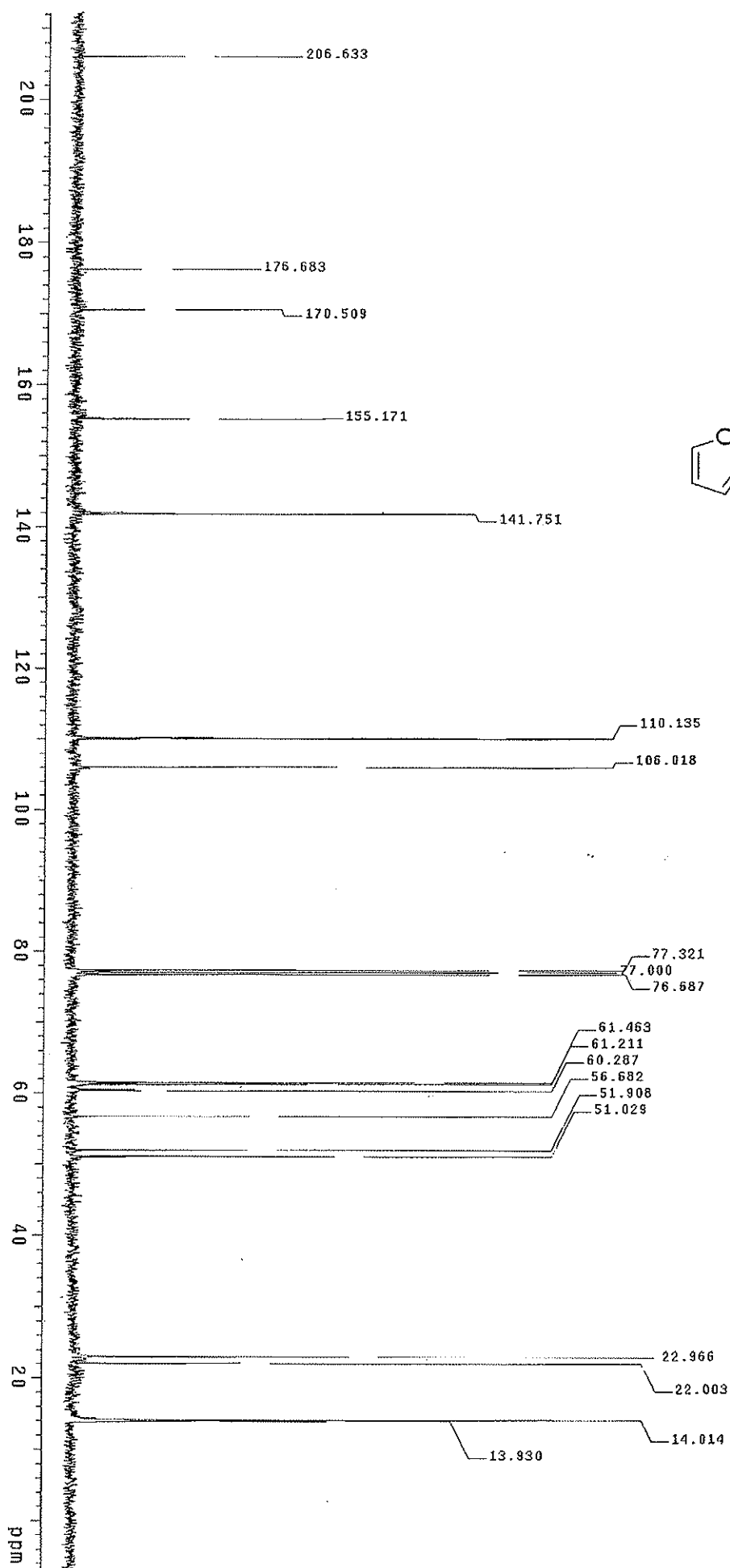
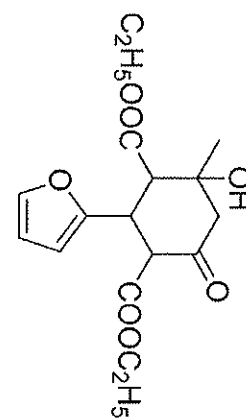
Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Formula
425.1967	425.1964	0.3	0.7	11.5	2.1	C25 H29 O6



NMR-400MHz in CDCl<sub>3</sub>  
R.N:ME0512/1437  
Date:15th May, 2012



NMR-400MHZ in CDCl3  
AR.No:ME0912/569  
Date: 7th Sept 2012



# Elemental Composition Report

## Single Mass Analysis

Tolerance = 5.0 PPM / DBE: min = -1.0, max = 40.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 2

Monoisotopic Mass, Even Electron Ions

22 formula(e) evaluated with 1 results within limits (up to 5 best isotopic matches for each mass)

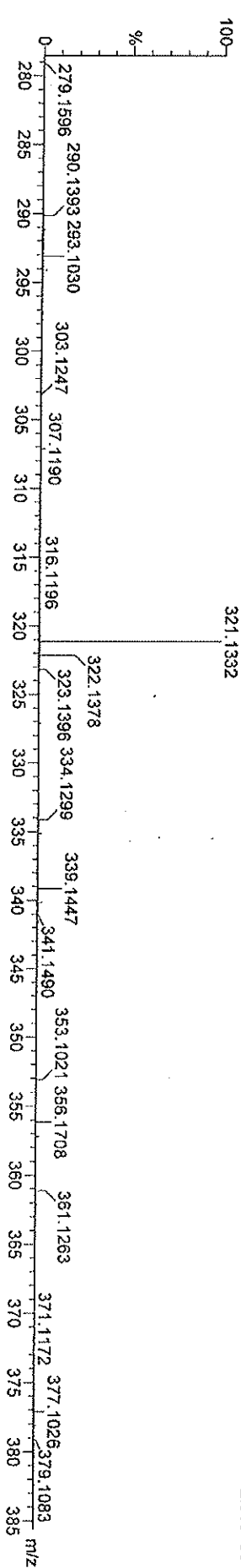
Elements Used:

C: 0-30 H: 0-30 O: 0-7

Dr.Reddy's Laboratories Ltd, ARD, TDC-1

UT0512\_053 6 (0.225) Cm (6:8)

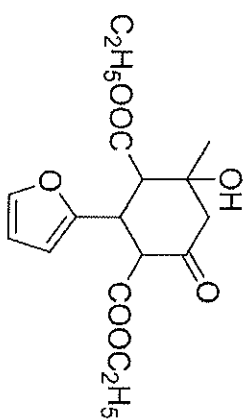
1: TOF MS ES+  
2.01e+004



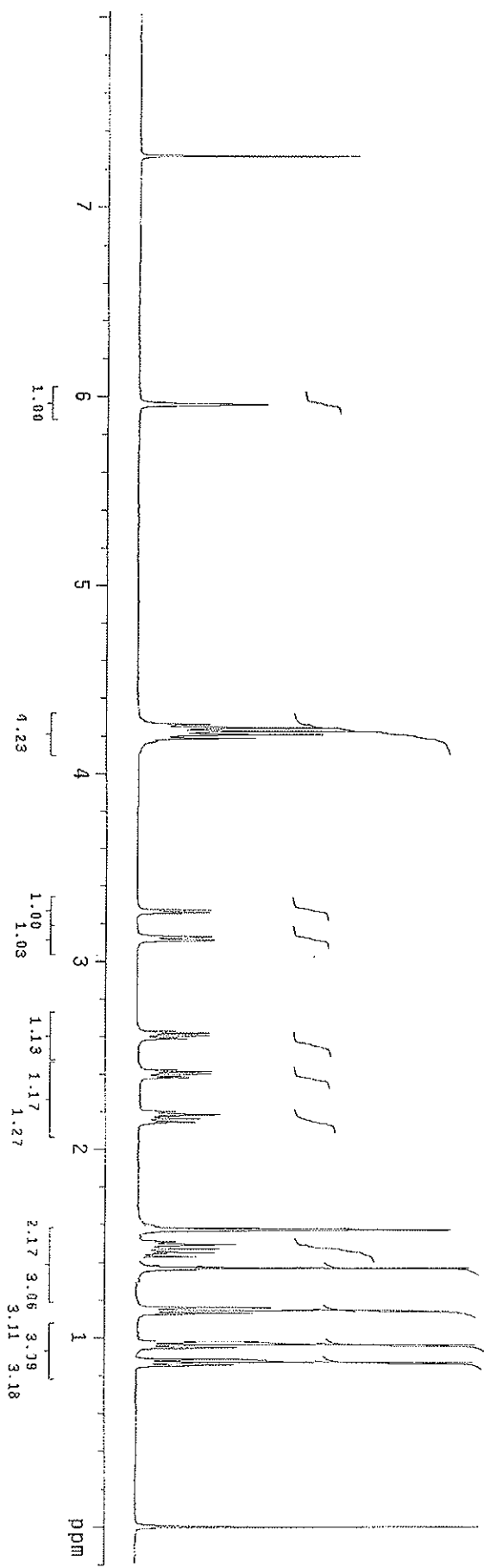
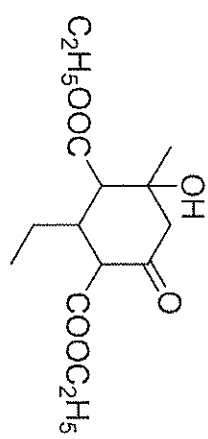
Minimum: 5.0  
Maximum: 5.0

-1.0  
40.0

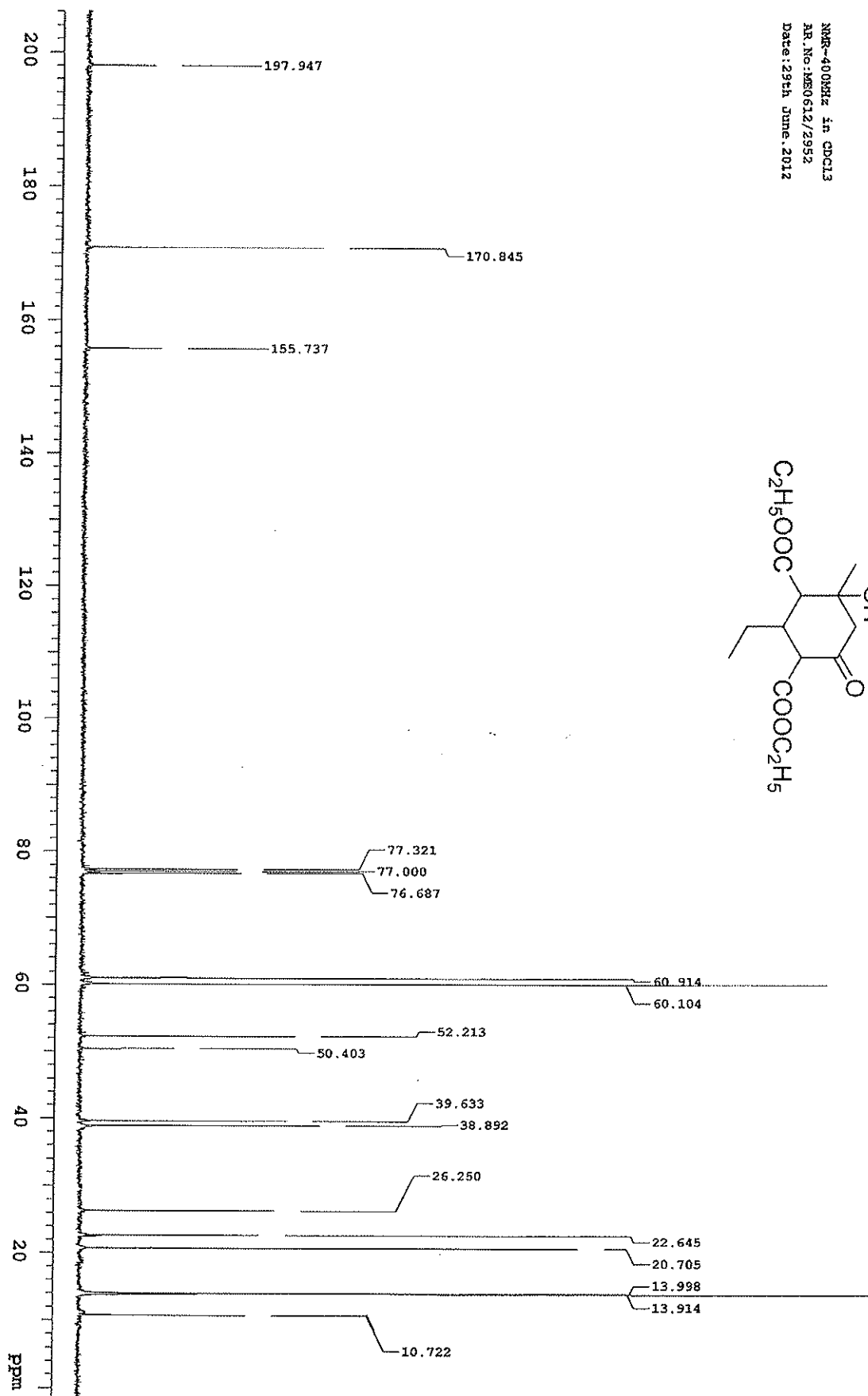
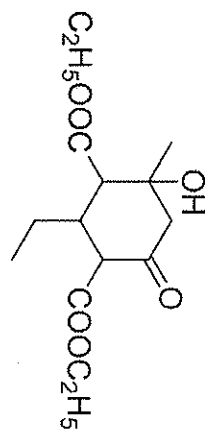
Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Formula
339.1447	339.1444	0.3	0.9	6.5	1.1	C17 H23 O7



NMR-400MHz in CDCl<sub>3</sub>  
AR\_M01ME0512/1150  
Date:11th May, 2012



NMR-400MHz in CDCl<sub>3</sub>  
AR.No:MR0612/2952  
Date: 29th June, 2012



### Elemental Composition Report

#### Single Mass Analysis

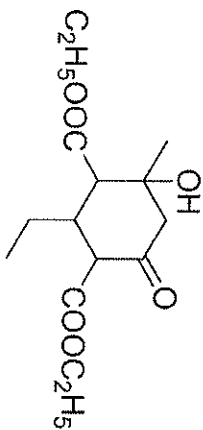
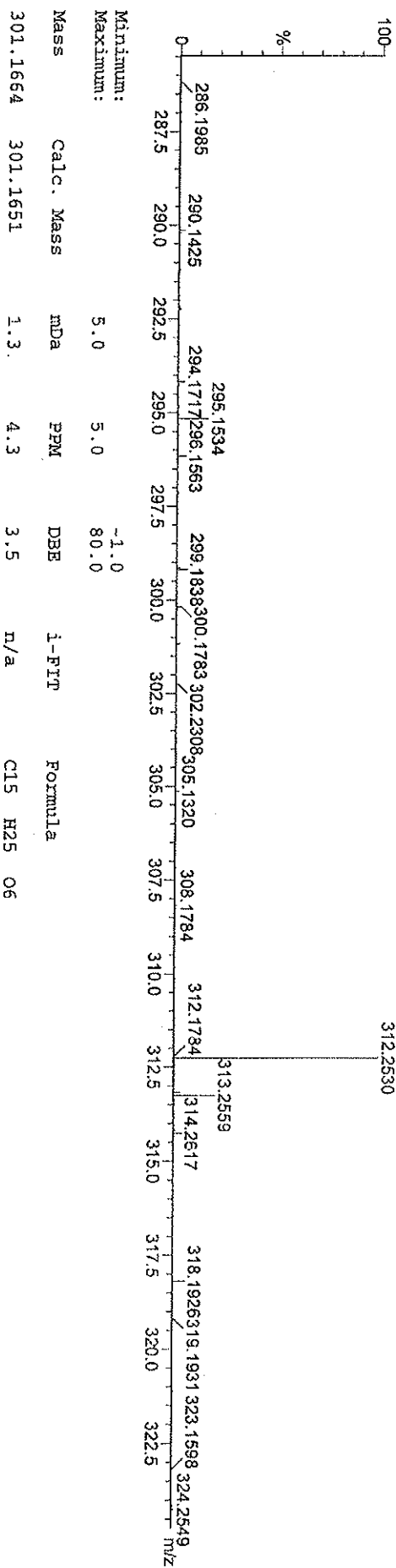
Tolerance = 5.0 PPM / DBE: min = -1.0, max = 80.0  
 Element prediction: Off  
 Number of Isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions  
 39 formula(e) evaluated with 1 results within limits (up to 5 closest results for each mass)  
 Elements Used:  
 C: 0-50 H: 0-60 O: 0-10

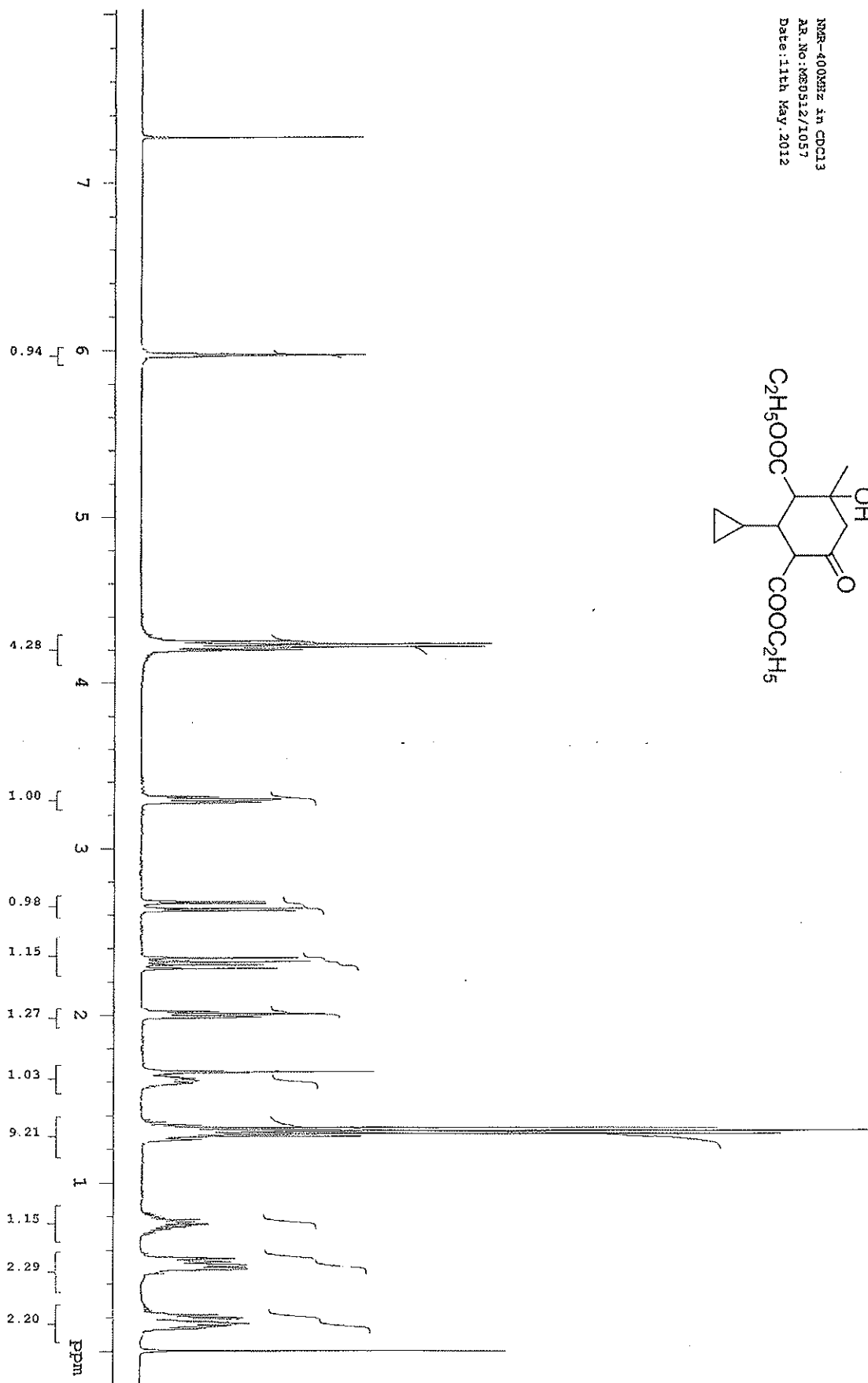
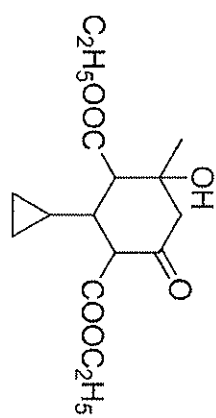
UT0812\_042 18 (0.339) Cm (18:22)

Dr.Reddy's Laboratories Ltd, ARD, TDC-1

1: TOF MS ES+  
 3.17e+003

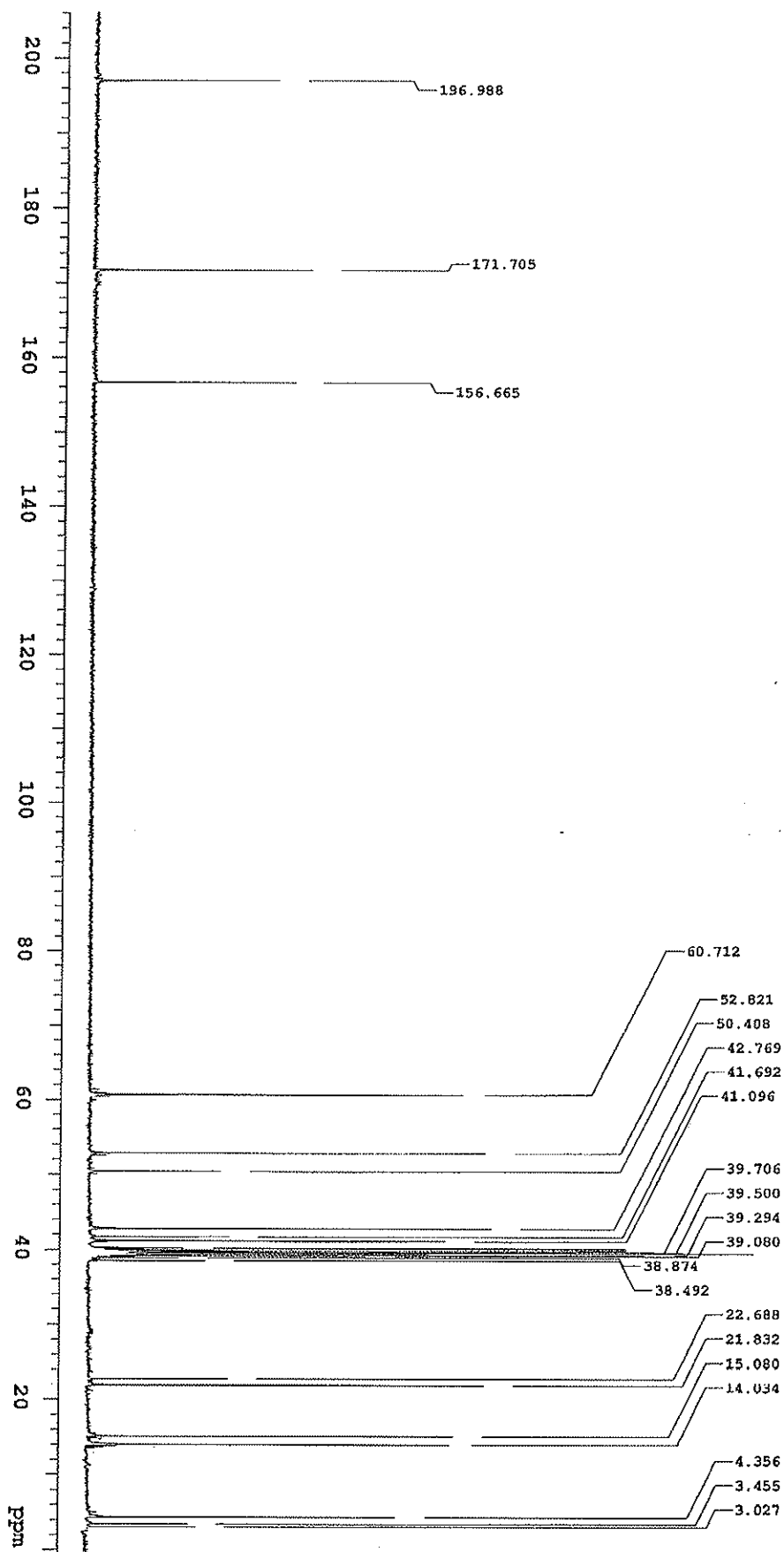
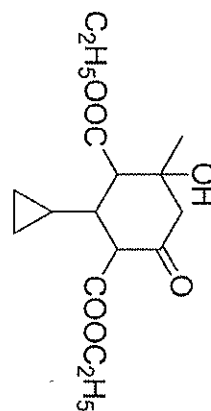


NR-400MHz 4h CDCl3  
A.R.No:ME9512/1057  
Date:11th May,2012





NMR-400MHz in DMSO  
Ac.No:ME0712/1347  
Date:13th July,2012



### Elemental Composition Report

#### Single Mass Analysis

Tolerance = 5.0 PPM / DBE: min = -1.0, max = 40.0  
 Element prediction: Off  
 Number of isotope peaks used for I-FIT = 2

Monoisotopic Mass: Even Electron Ions

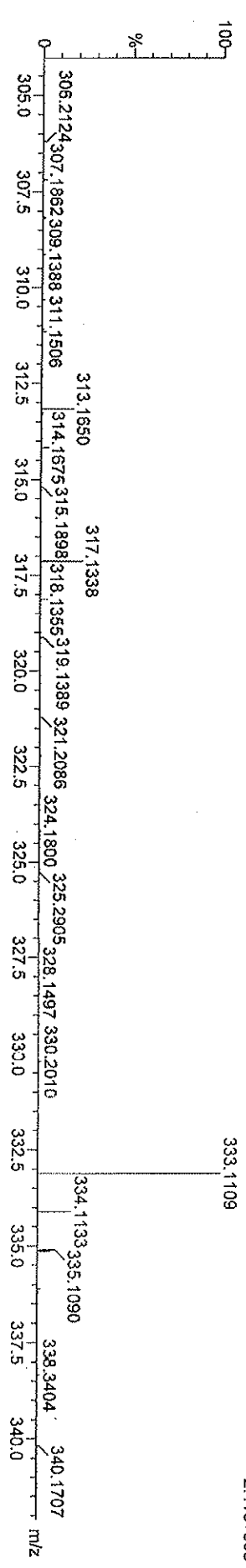
31 formula(e) evaluated with 1 results within limits (up to 5 best isotopic matches for each mass)

Elements Used:

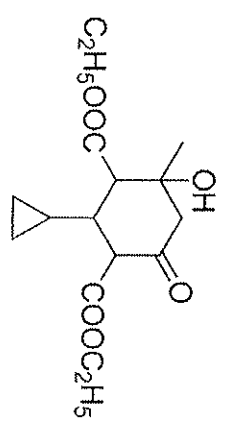
C: 0-25 H: 0-35 O: 0-10

Dr.Reddy's Laboratories Ltd, ARD, TDC-1

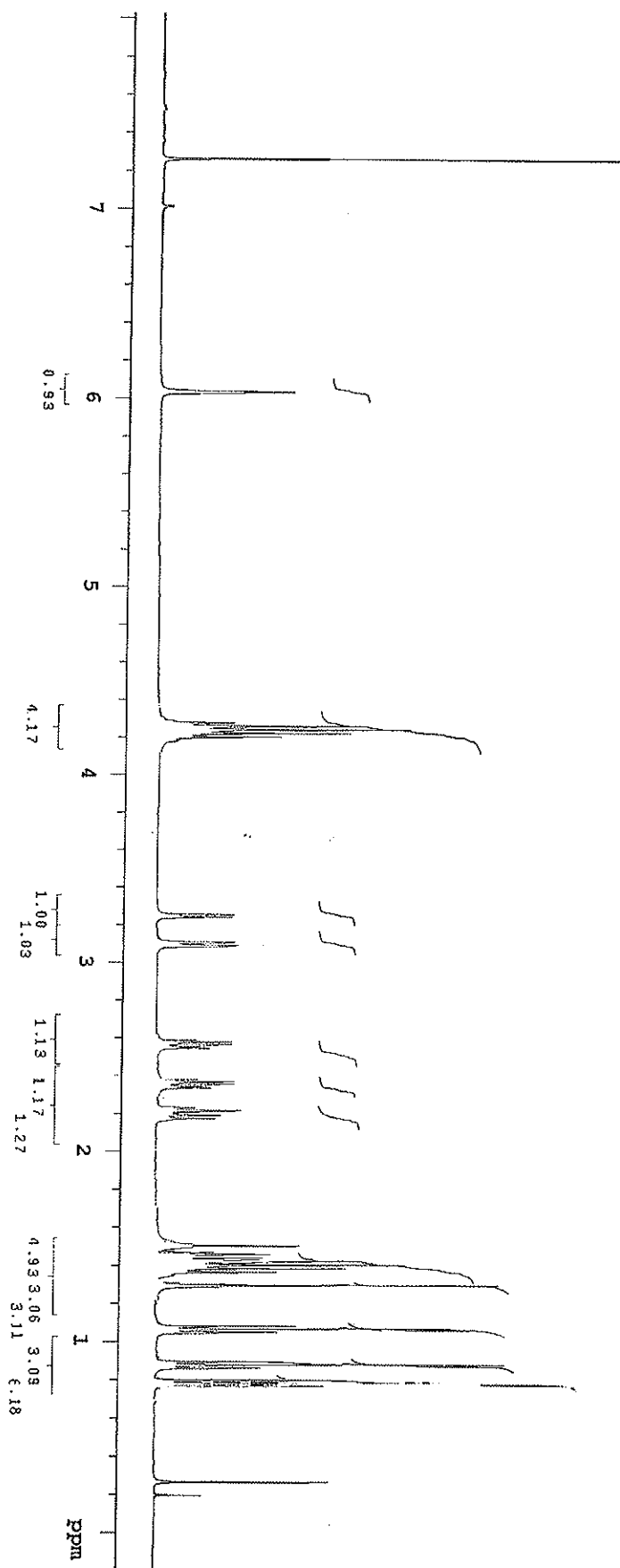
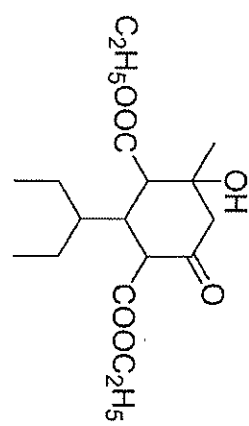
UT0512\_022.25 (0.902) Cm (25:34-6:10x0.010)



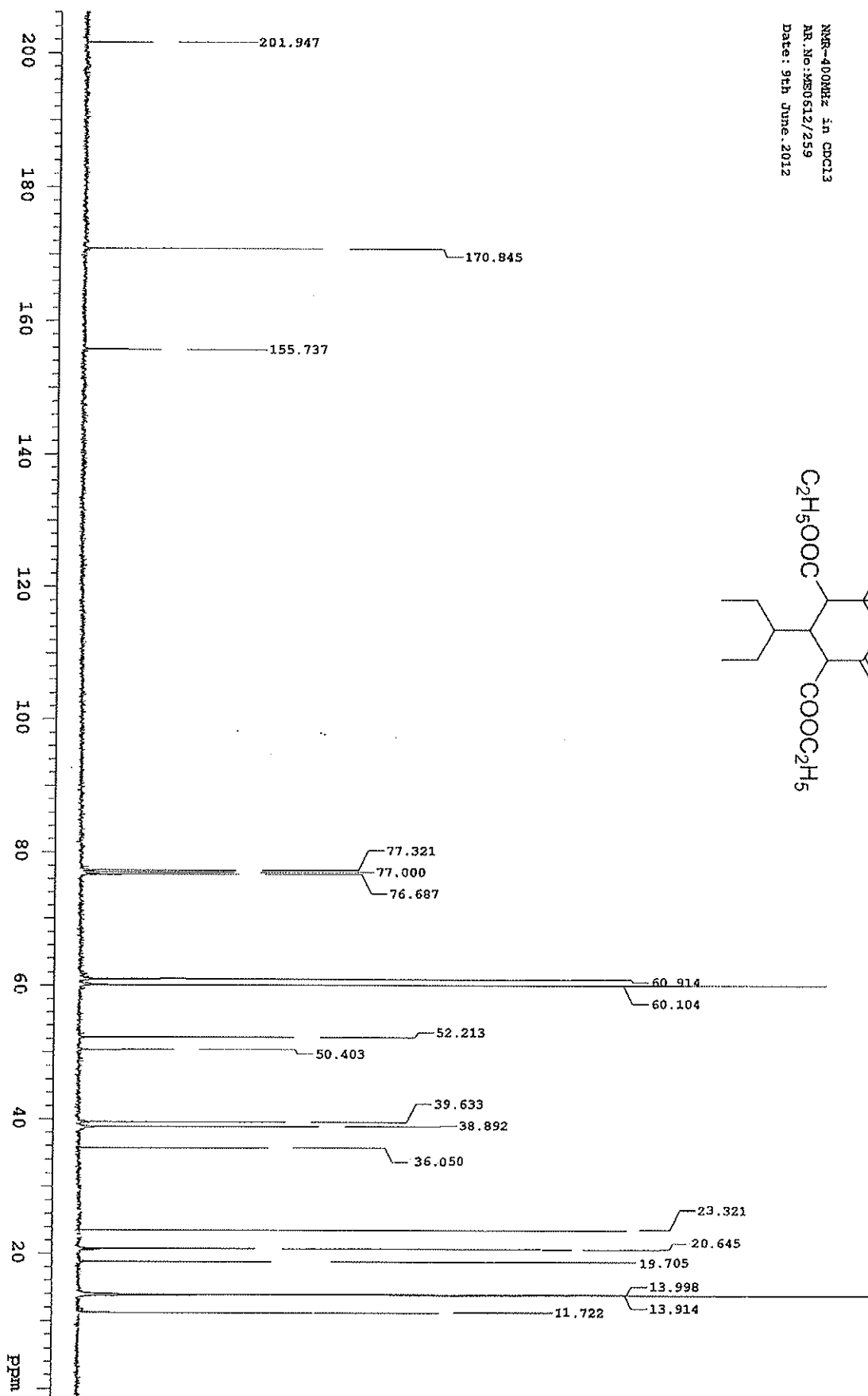
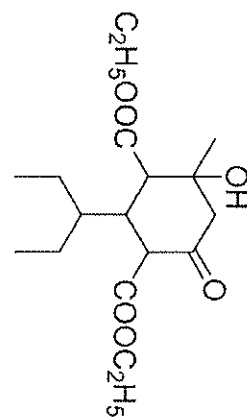
Mass	Calc. Mass	MDa	PPM	DBE	I-FIT	Formula
313.1650	313.1651	-0.1	-0.3	4.5	1.0	C16 H25 O6



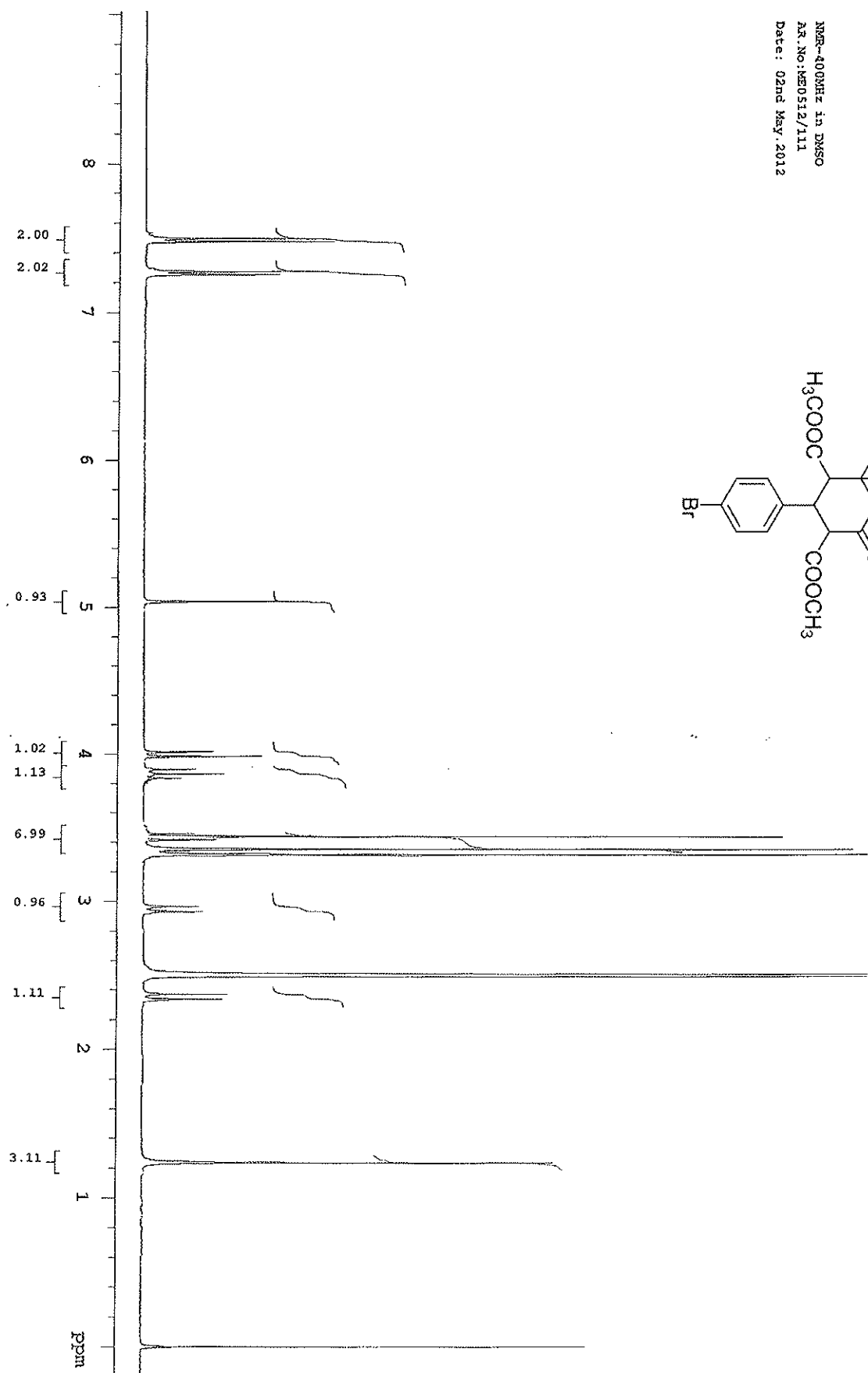
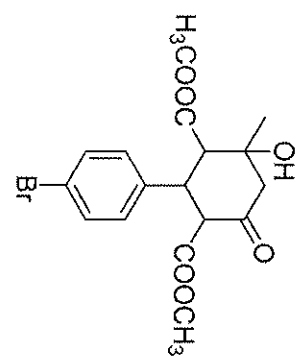
NMR-400MHz in CDCl3  
RR.No:ME0812/465  
Date: 6th Sept 2012

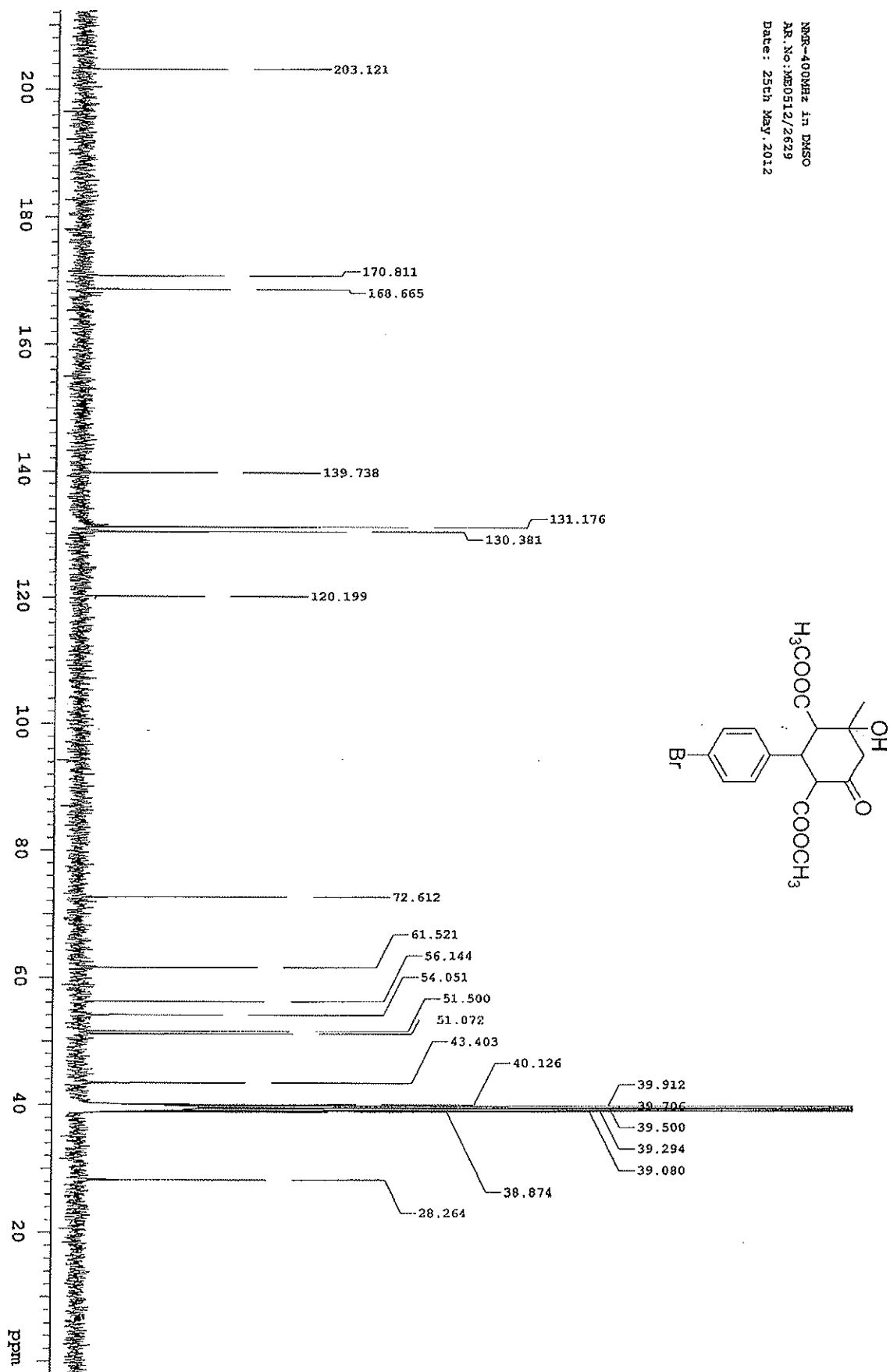


NMR-400MHz in CDCl<sub>3</sub>  
RR.No:MS0512/259  
Date: 9th June 2012



NMR-400MHz in DMSO  
AR.No:ME0512/111  
Date: 02nd May, 2012





# Elemental Composition Report

## Single Mass Analysis

Tolerance = 5.0 PPM / DBE: min = -1.0, max = 80.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions

38 formula(e) evaluated with 1 results within limits (up to 4 closest results for each mass)

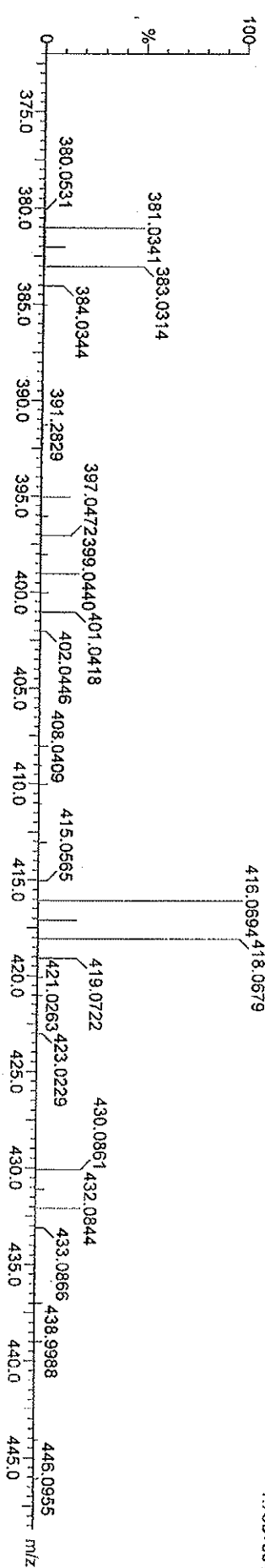
Elements Used:

C: 0-25 H: 0-25 O: 0-6 Br: 0-2

UT0712\_40 14 (0.265) Cm (12.23)

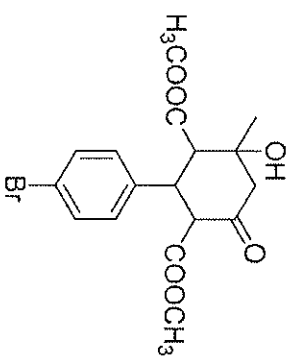
Dr.Reddy's Laboratories Ltd, ARD, TDC-1

1: TOF MS ES+  
1.73e+004

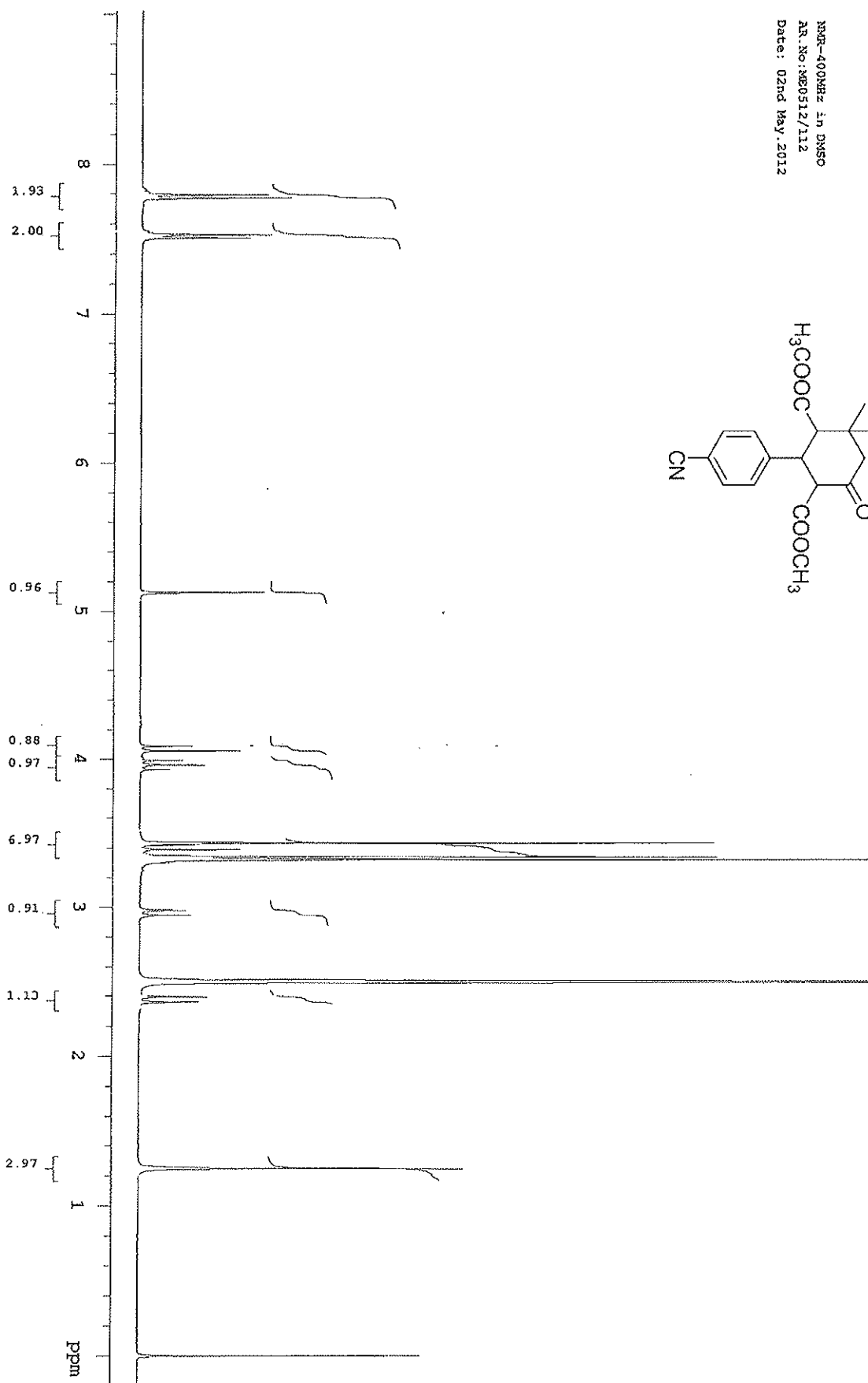
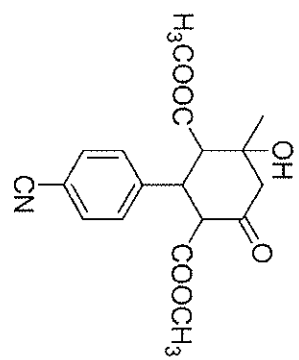


Minimum: 5.0  
Maximum: 5.0  
-1.0  
80.0

Mass	Calc. Mass	mda	ppm	DBE	i-FIT	Formula
399.0440	399.0443	-0.3	-0.8	7.5	5.8	C17 H20 O6 Br

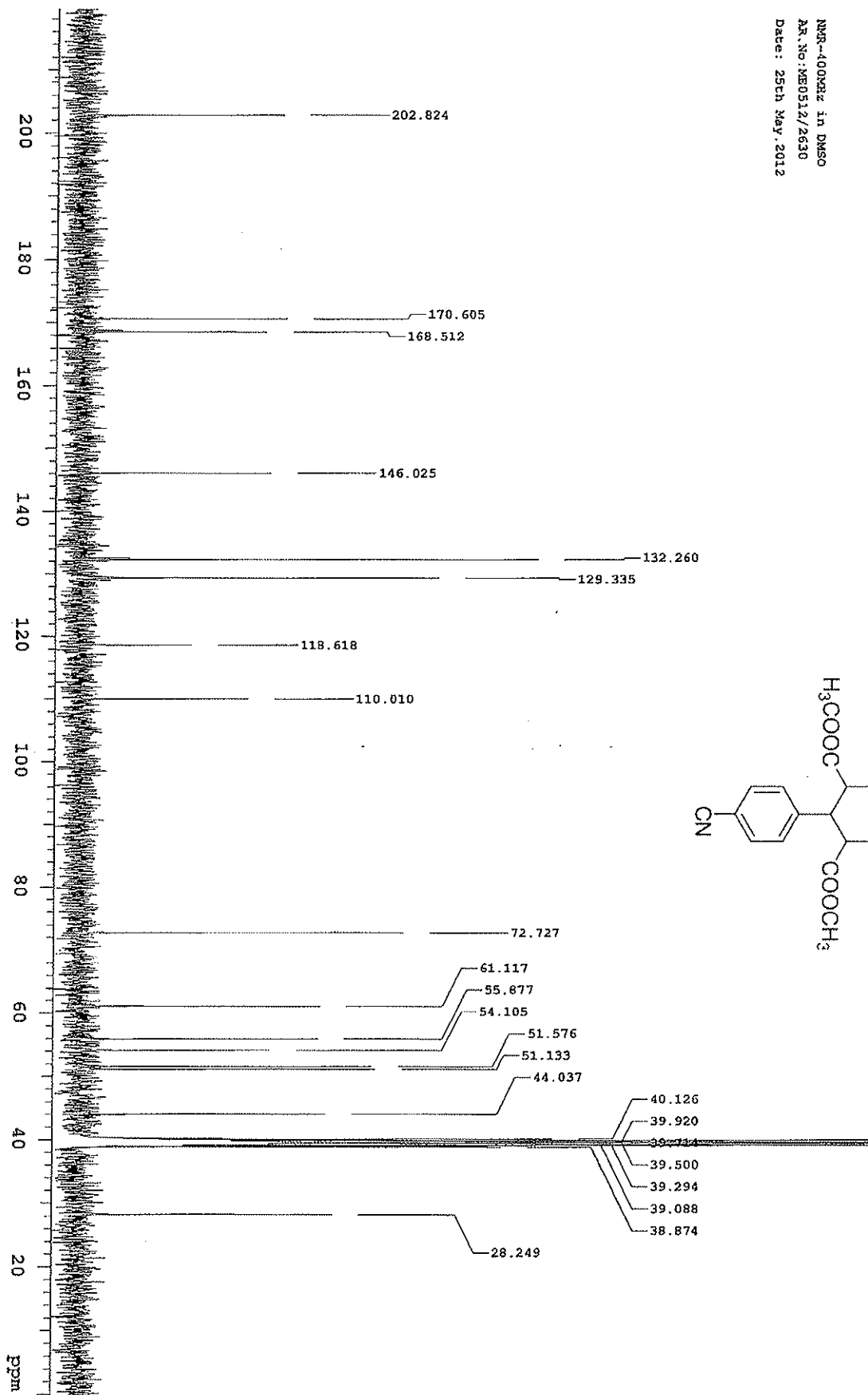


NMR-400MHz in DMSO  
AR.No:ME0512/112  
Date: 02nd May .2012





NMR-400MHz in DMSO  
Ac.No:ME0512/2630  
Date: 25th May, 2012

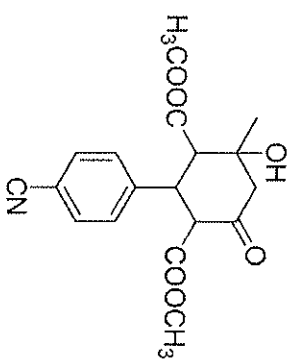
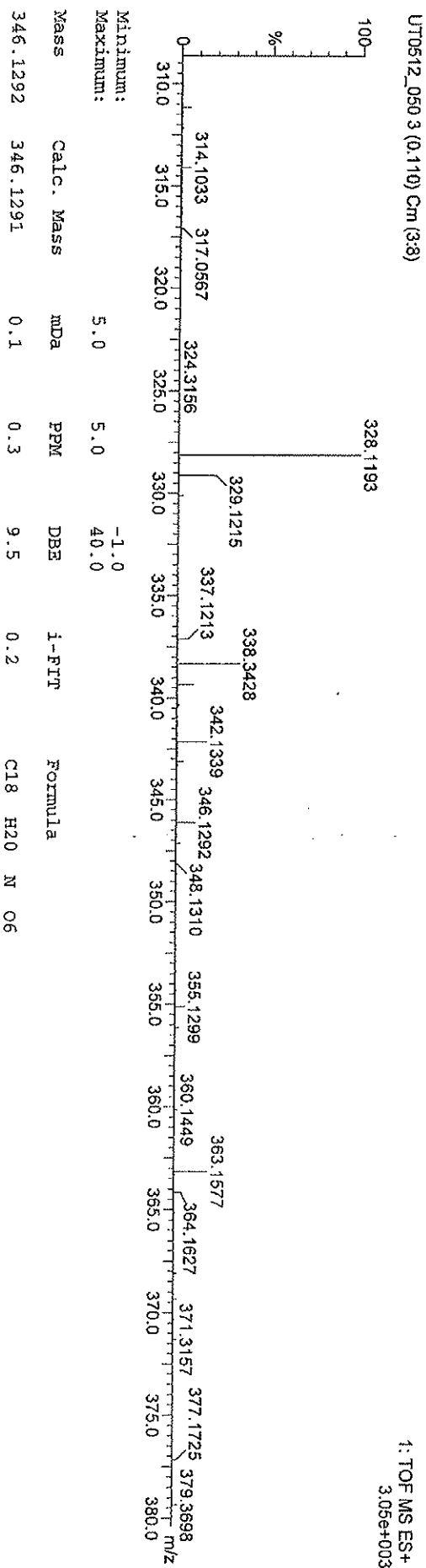


## Single Mass Analysis

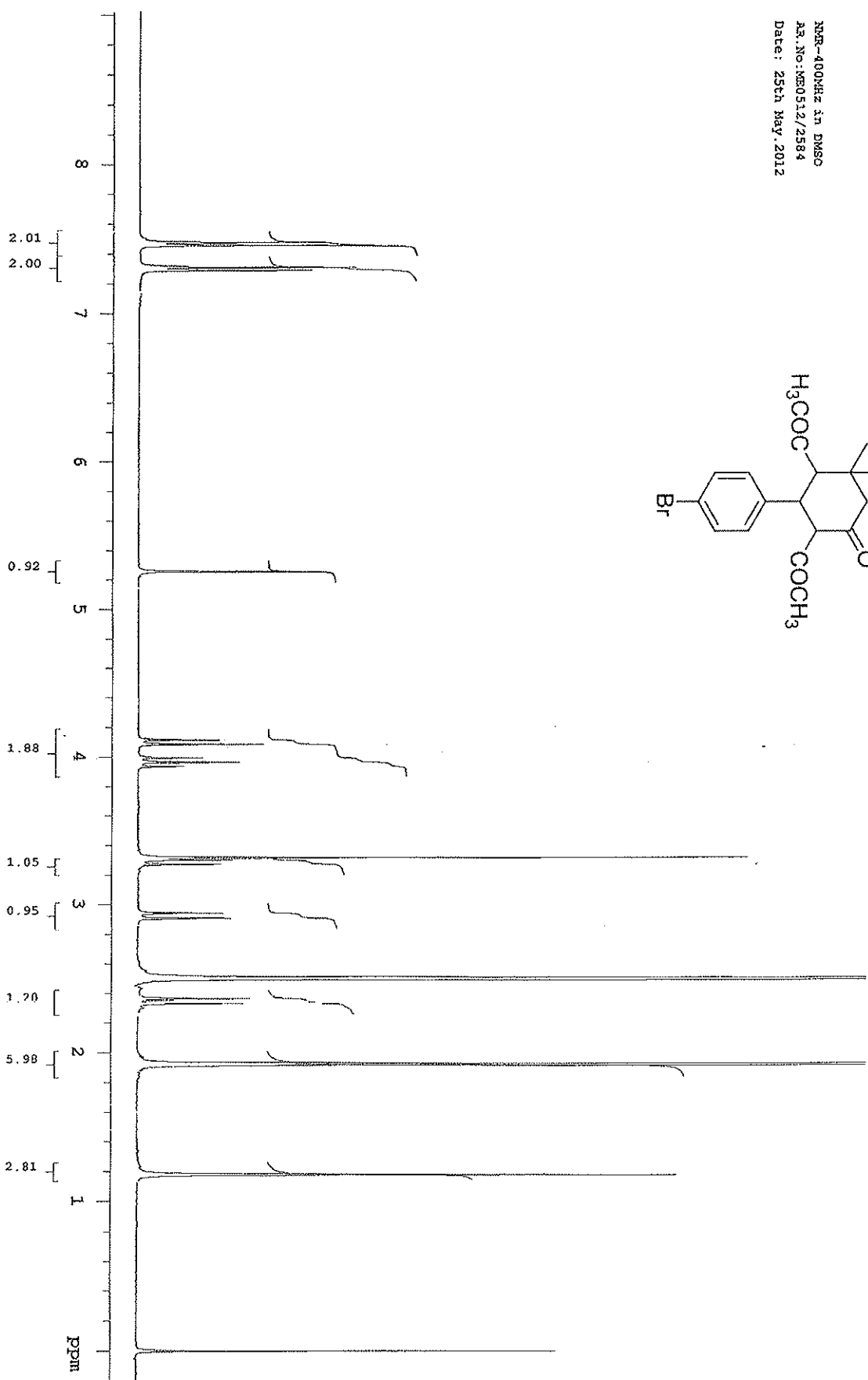
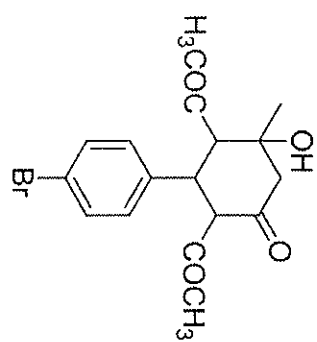
Tolerance = 5.0 PPM / DBE: min = -1.0, max = 40.0  
 Element prediction: Off  
 Number of isotope peaks used for 1-FIT = 2

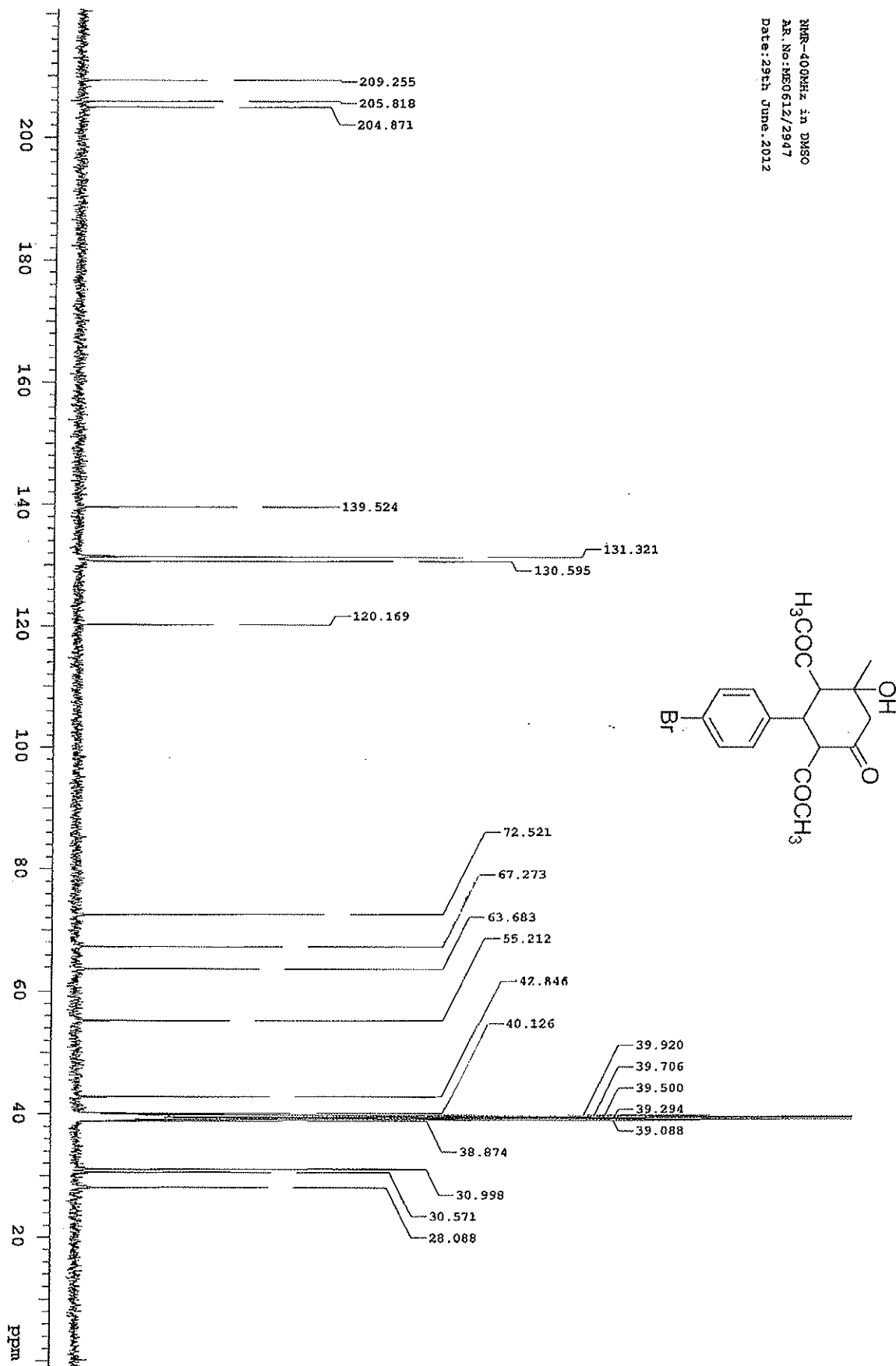
Monoisotopic Mass, Even Electron Ions  
 1:1 formula(e) evaluated with 1 results within limits (up to 5 best isotopic matches for each mass)  
 Elements Used:  
 C: 0-20 H: 0-20 N: 0-1 O: 0-6

Dr.Reddy's Laboratories Ltd, ARD, TDC-1



NR-400MHz in DMSO  
Ac.No: KE0512/2584  
Date: 25th May, 2012





NMR-400MHz in DMSO  
R.N. No: ME0613/2947  
Date: 29th June, 2012

## Single Mass Analysis

Tolerance = 5.0 PPM / DBE: min = -1.0, max = 80.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions

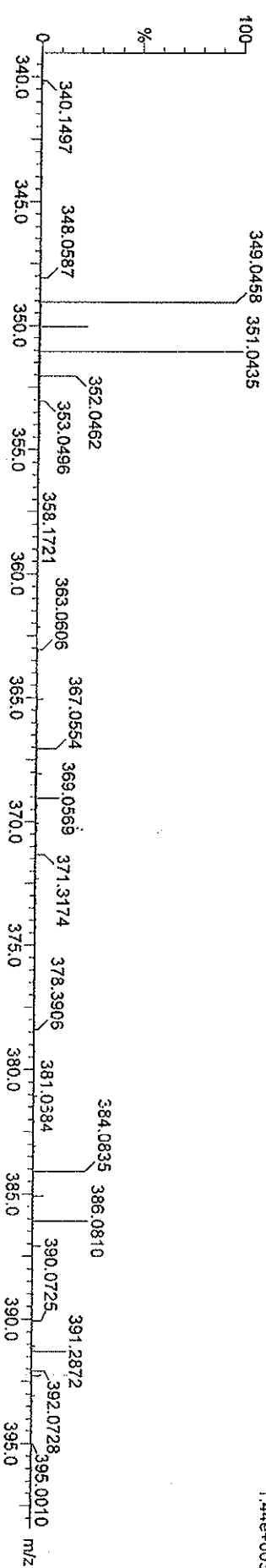
42 formula(e) evaluated with 1 results within limits (up to 4 closest results for each mass)

Elements Used:

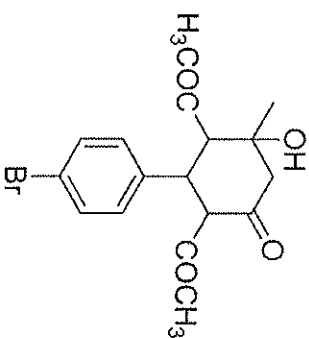
C: 0-25 H: 0-25 O: 0-6 Br: 0-2

UT0712\_38 20 (0.367) Cm (20.25)

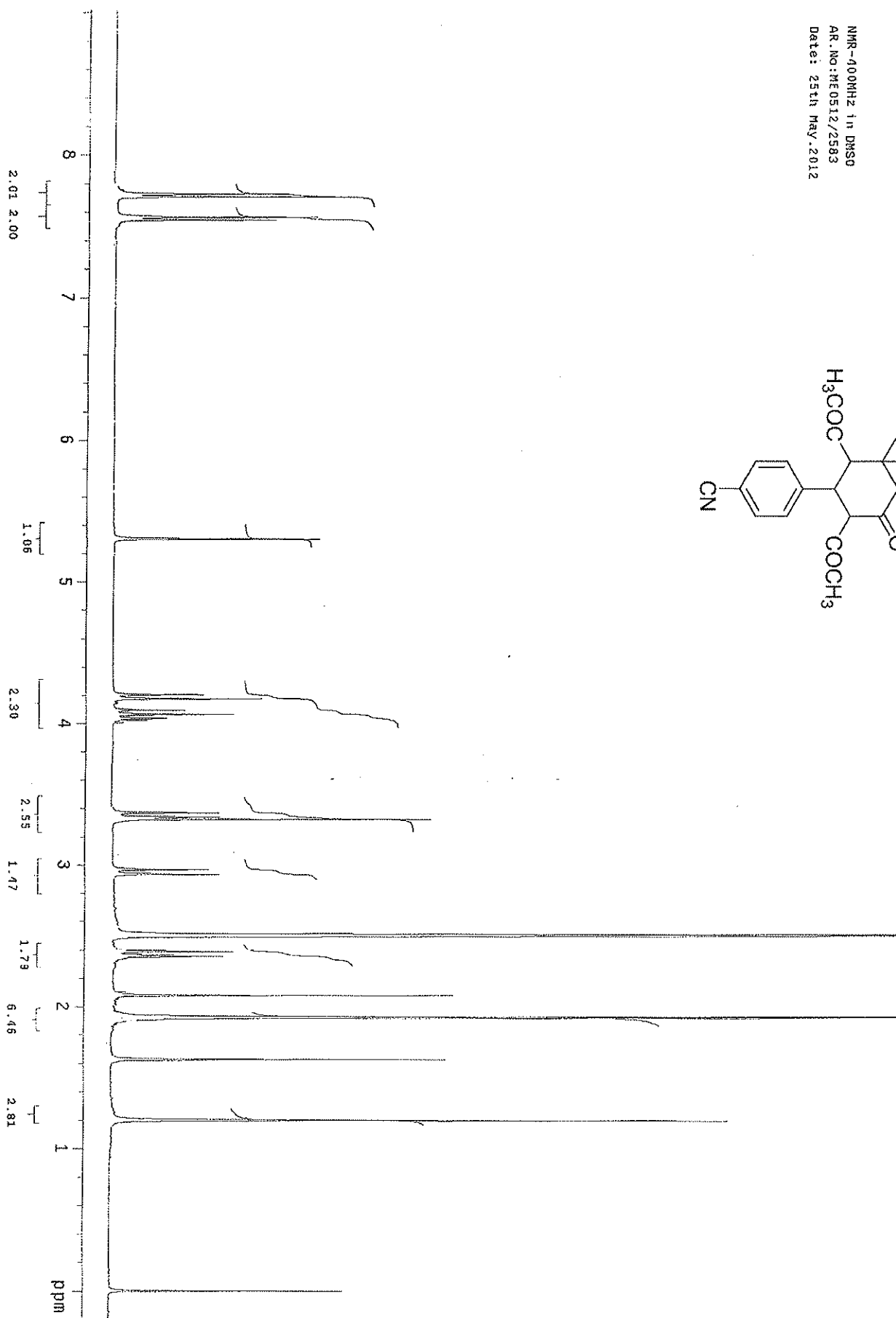
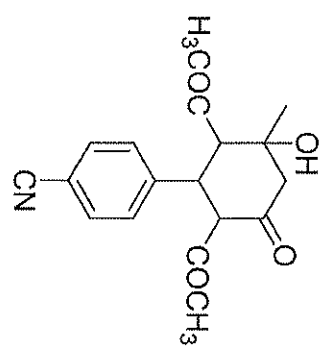
Dr.Reddy's Laboratories Ltd, ARD,TDC-1

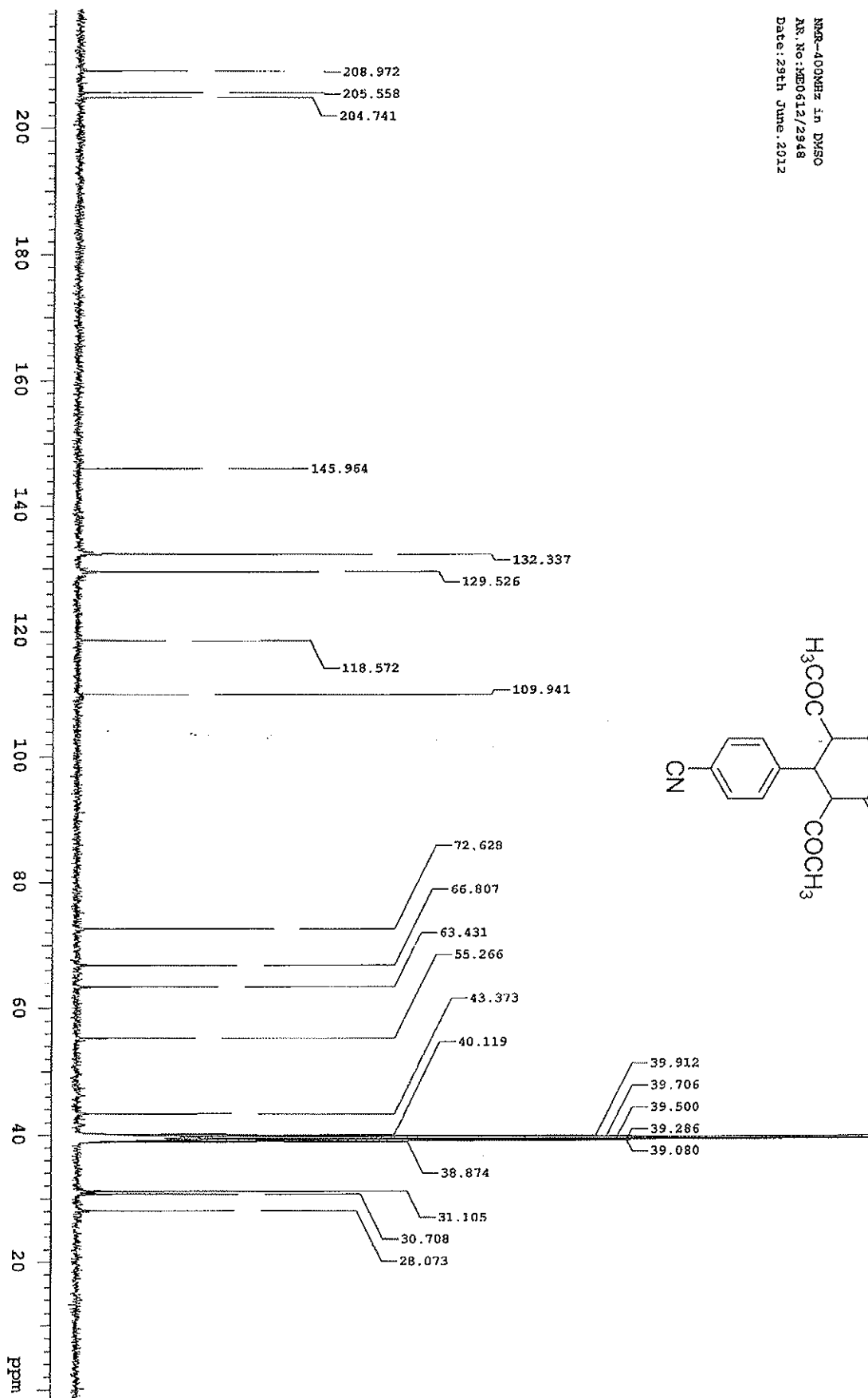
1: TOF MS ES+  
1.44e+003Minimum:  
Maximum:5.0    5.0    -1.0  
80.0

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Formula
367.0554	367.0545	0.9	2.5	7.5	2.0	C17 H20 O4 Br



NMR-400MHz in DMSO  
AR.No:ME0512/2583  
Date: 25th May.2012





NMR-400MHz in DMSO  
AR. No:ME0612/2948  
Date:29th June, 2012

## Elemental Composition Report

### Single Mass Analysis

Tolerance = 5.0 PPM / DBE: min = -1.0, max = 80.0  
Element prediction: Off  
Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions  
66 formula(e) evaluated with 1 results within limits (up to 4 closest results for each mass)  
Elements Used:

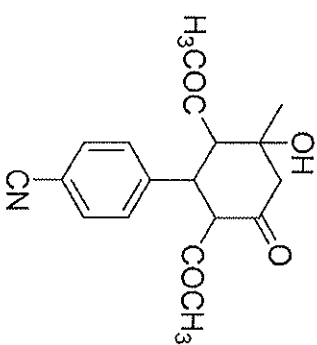
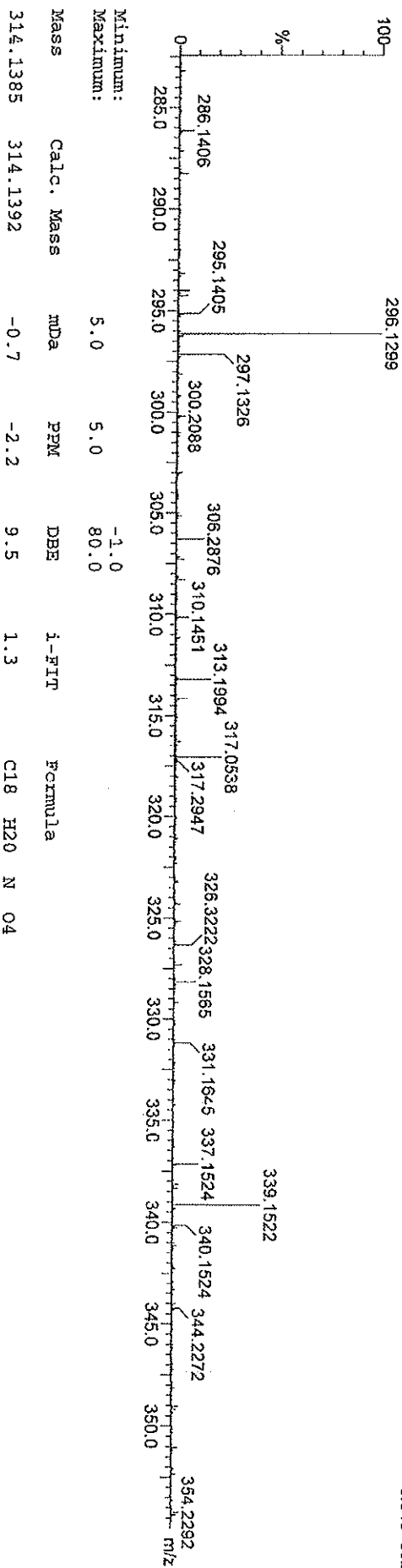
C: 0-30 H: 0-20 N: 0-5 O: 0-5

AZ86/CSAT1/066

UT0712\_39.21 (0.399) Cm (21:25)

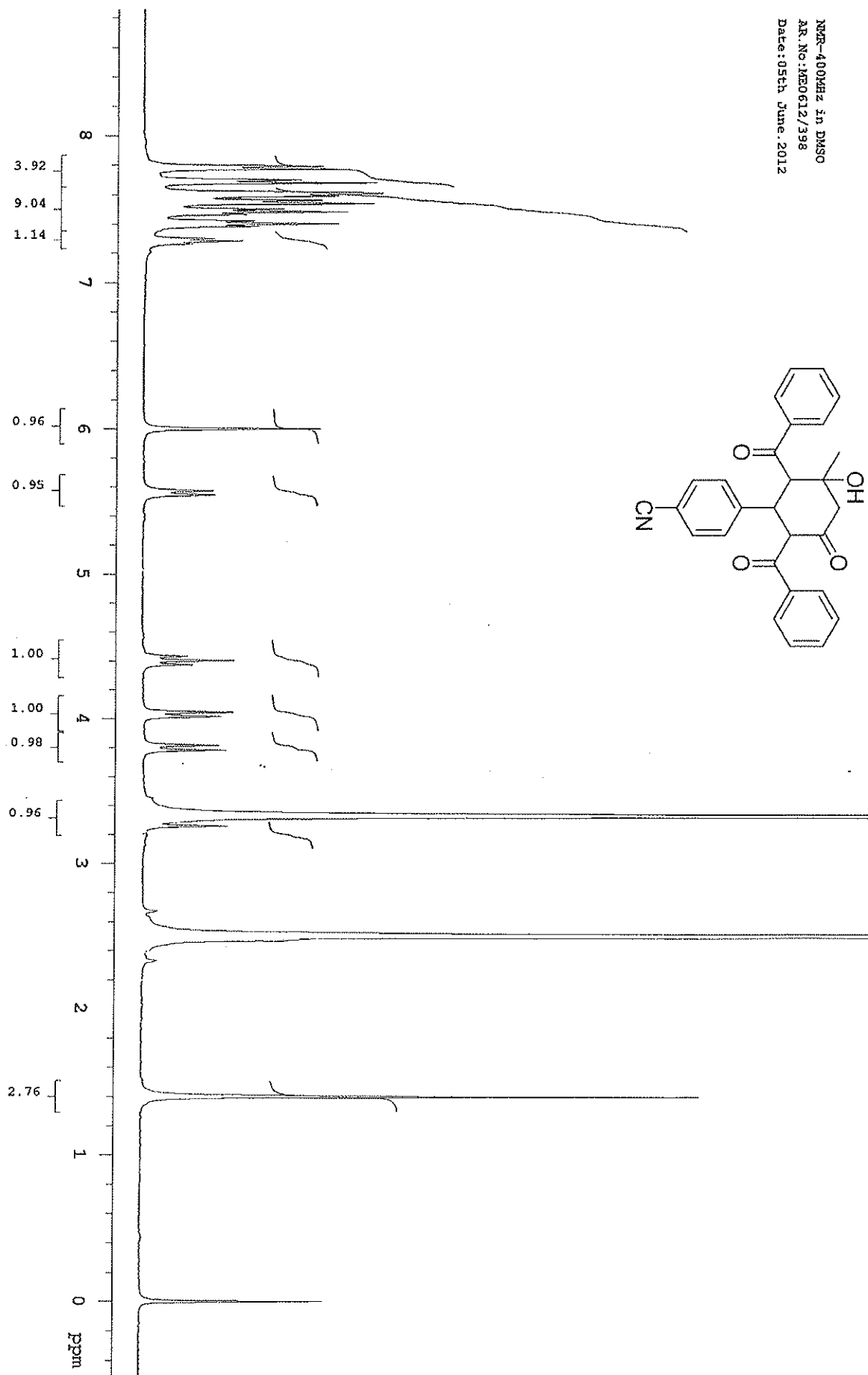
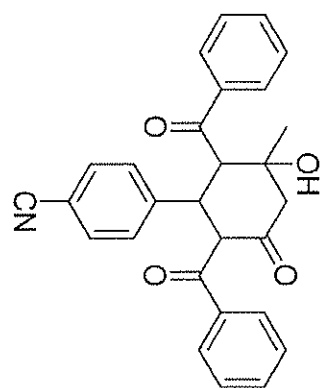
Dr.Reddy's Laboratories Ltd, ARD, TDC-1

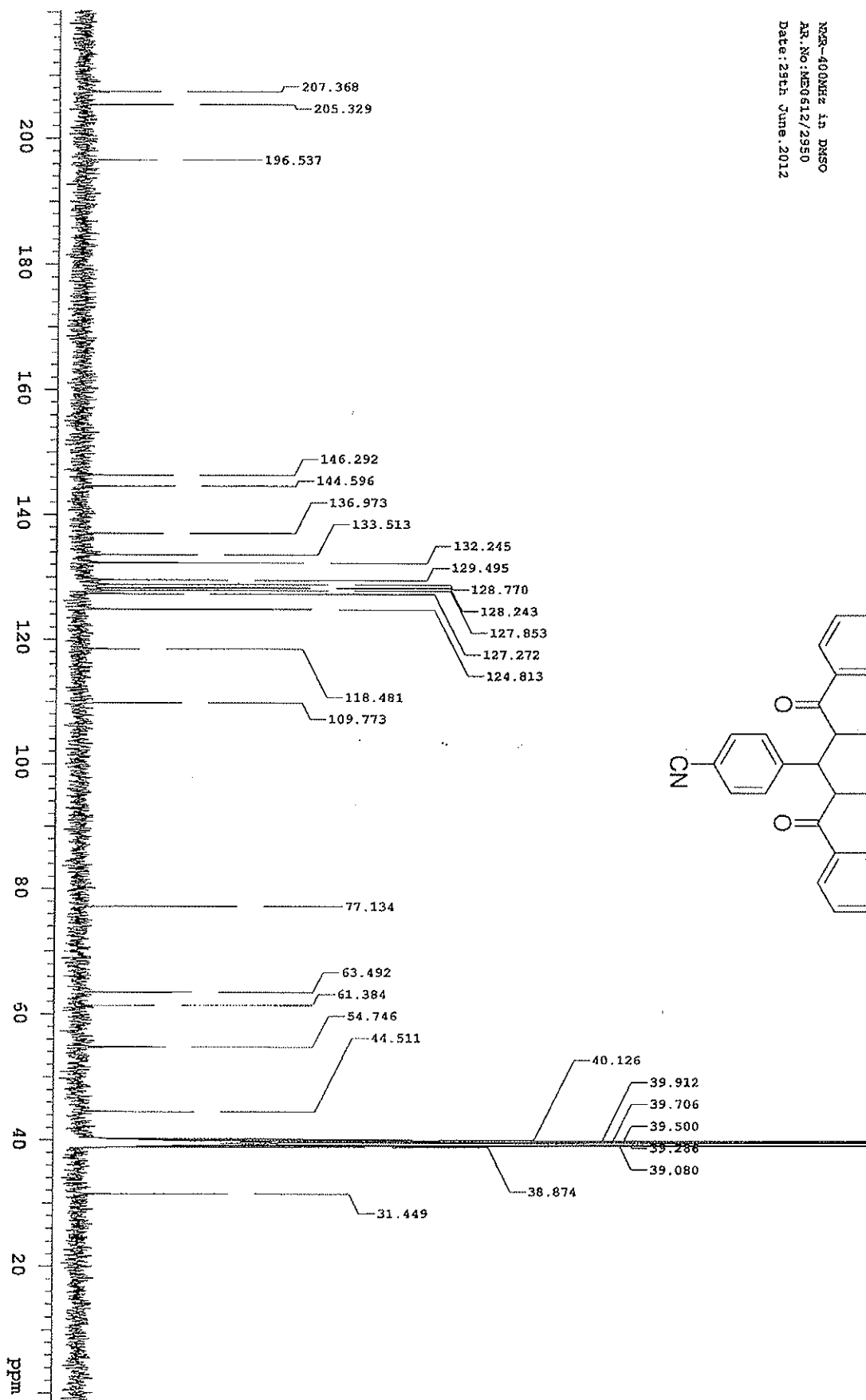
1: TOF MS ES+  
3.84e+002





NMR-400MHz in DMSO  
R.R.No:ME0612/398  
Date:05th June, 2012





13C-400MHz in DMSO  
AR.No:ME0612/2950  
Date: 29th June, 2012

**Single Mass Analysis**

Tolerance = 5.0 PPM / DBE: min = -1.0, max = 80.0  
 Element prediction: Off  
 Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions  
 16 formula(e) evaluated with 1 results within limits (up to 4 best isotopic matches for each mass)

Elements Used:

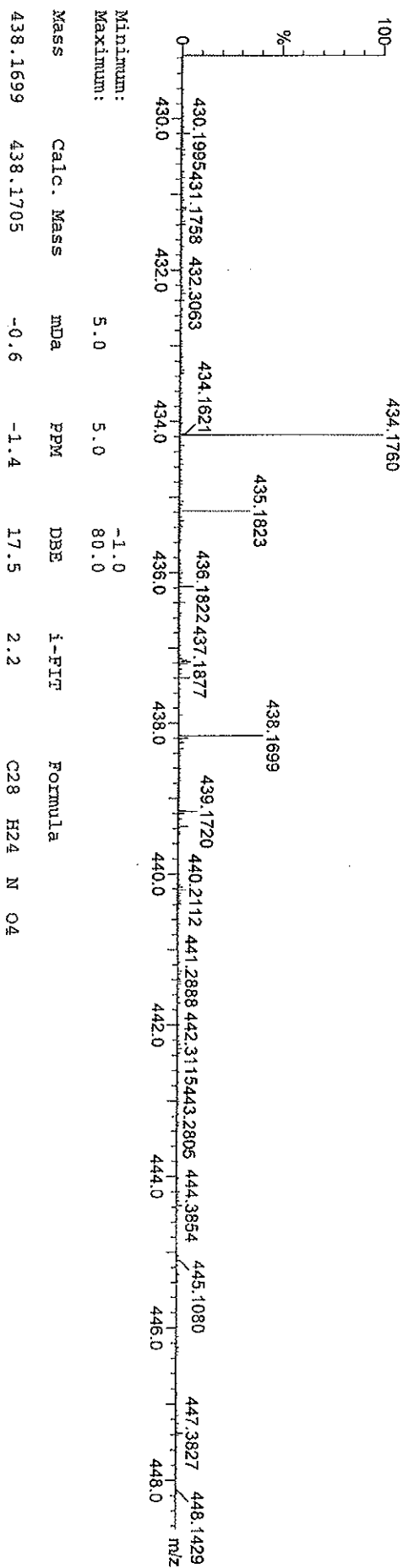
C: 0-30 H: 0-30 N: 0-2 O: 0-4

A786/CSAT1/071

UT0712\_34 16 (0.292) Cm (16.24)

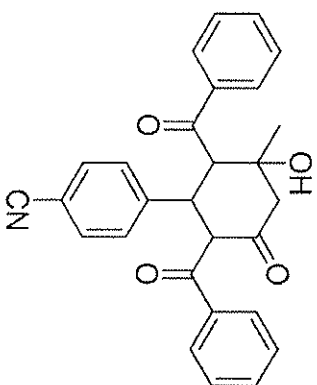
Dr.Reddy's Laboratories Ltd, ARD, TDC-1

1: TOF MS ES+  
 3.35e+002

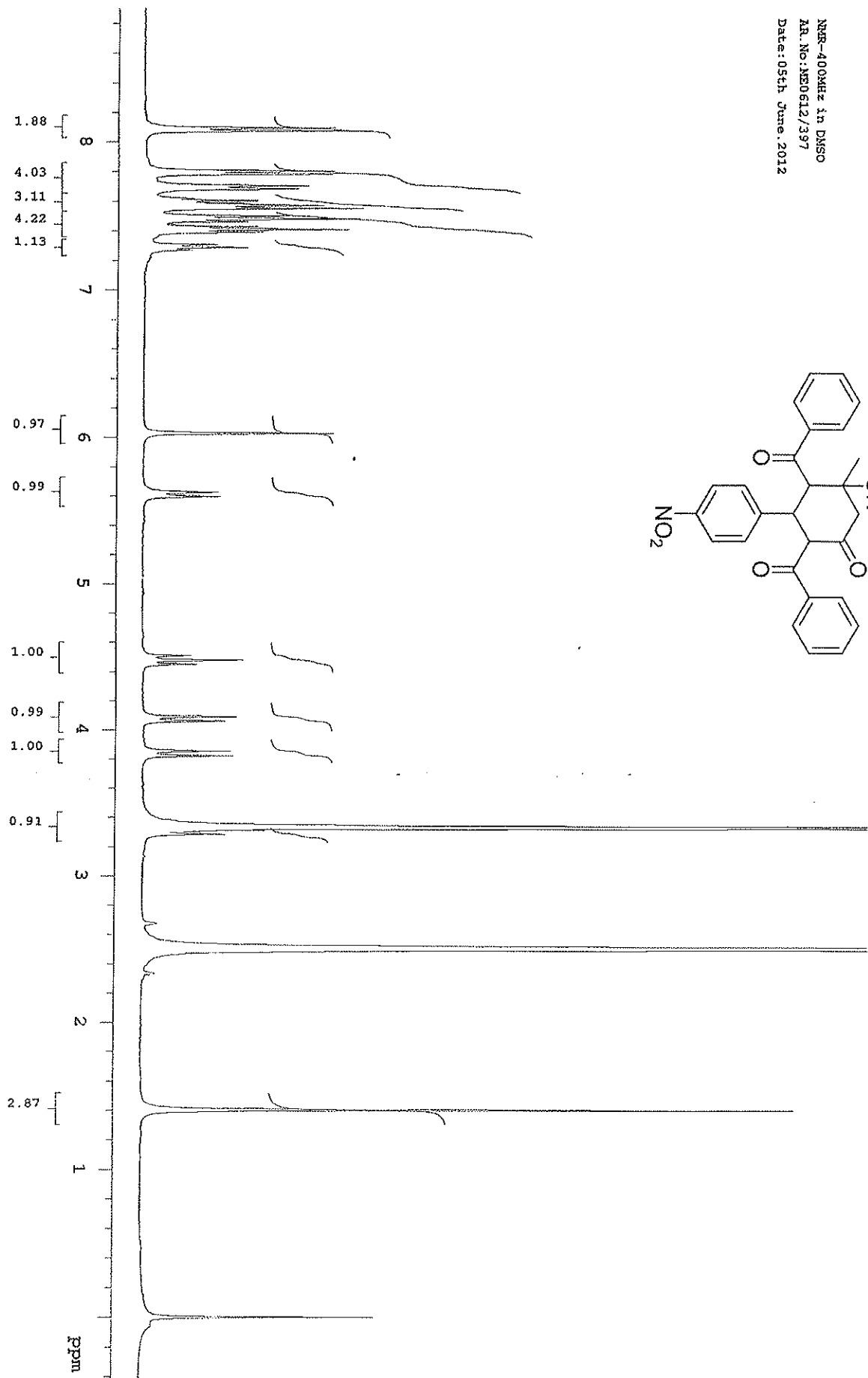


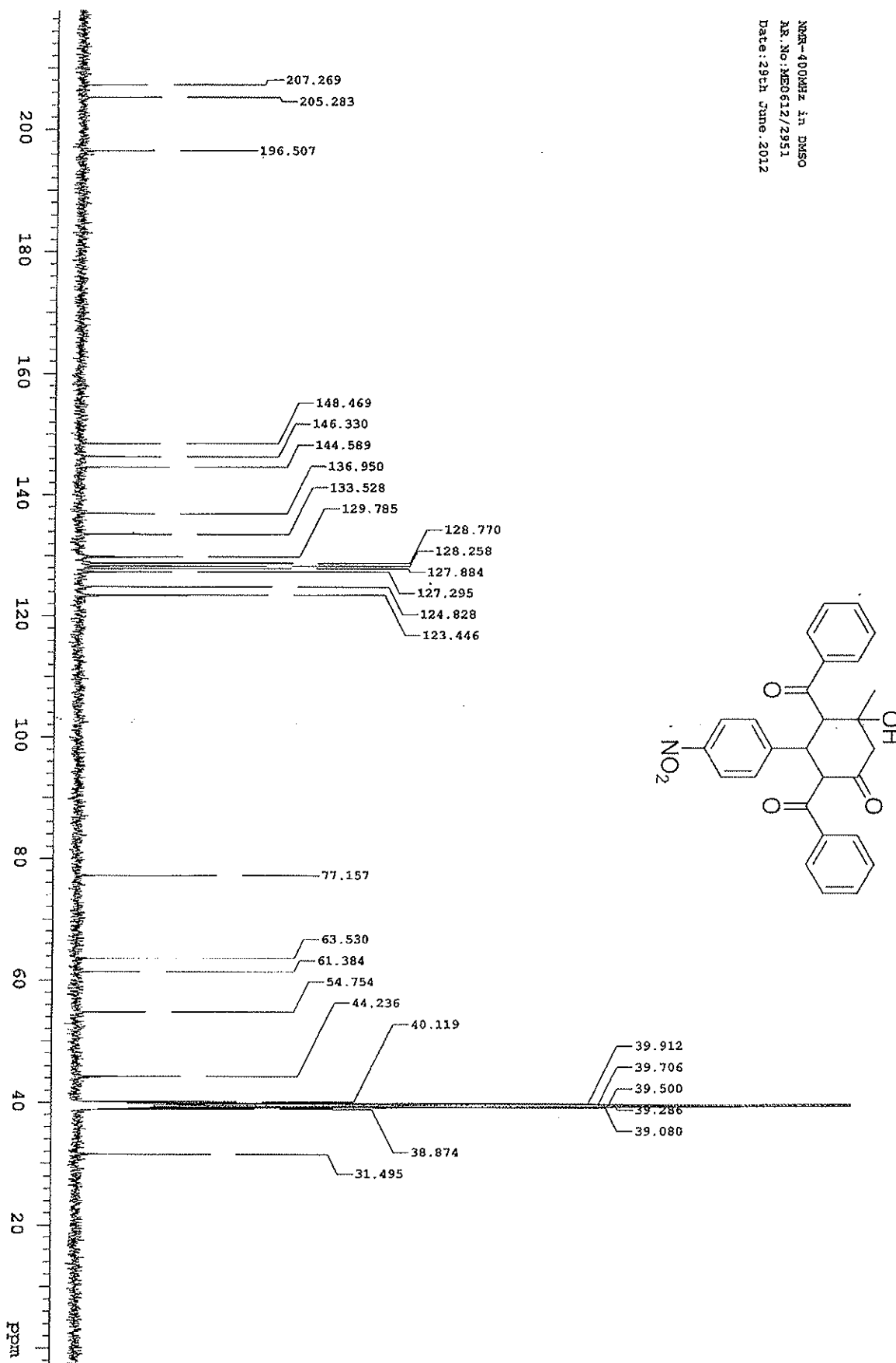
Minimum: 5.0 PPM -1.0 DBE  
 Maximum: 5.0 PPM 80.0 DBE

Mass	Calc. Mass	MDA	PPM	DBE	i-FIT	Formula
438.1699	438.1705	-0.6	-1.4	17.5	2.2	C28 H24 N O4



NMR-400MHz in DMSO  
A.R. No: NE0612/397  
Date: 05th June, 2012





NMR-400MHz in DMSO  
Ac.No:ME0612/2951  
Date:29th June,2012

### Elemental Composition Report

#### Single Mass Analysis

Tolerance = 5.0 PPM / DBE: min = -1.0, max = 80.0  
Element prediction: Off  
Number of isotope peaks used for i-FIT = 3

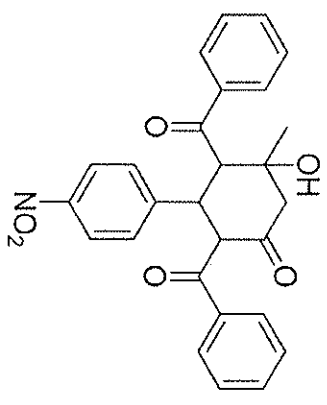
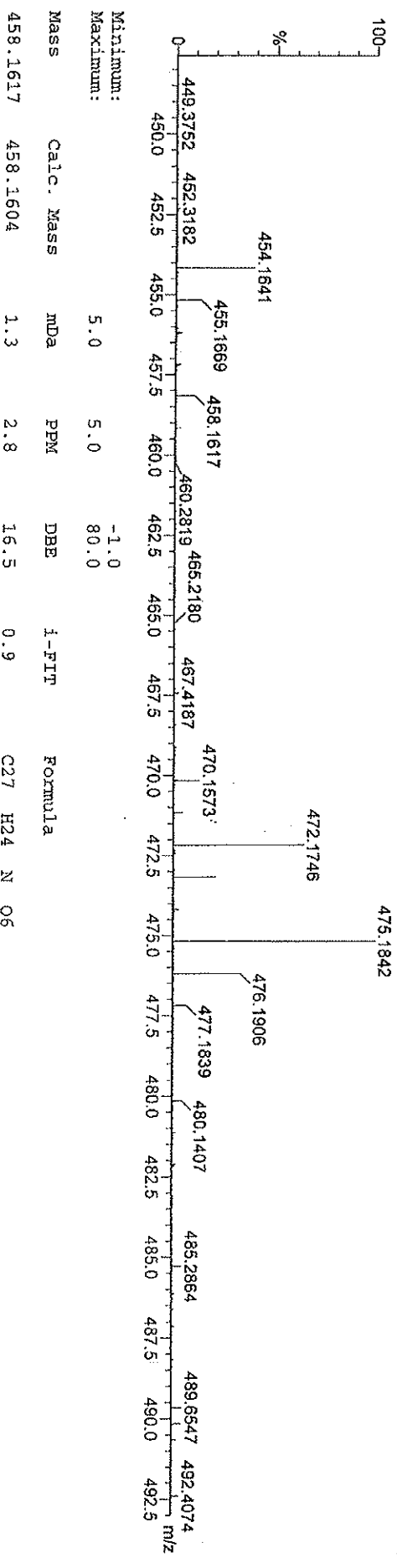
Monoisotopic Mass, Even Electron Ions  
40 formula(e) evaluated with 1 results within limits (up to 4 best isotopic matches for each mass)

Elements Used:  
C: 0-30 H: 0-30 N: 0-2 O: 0-8

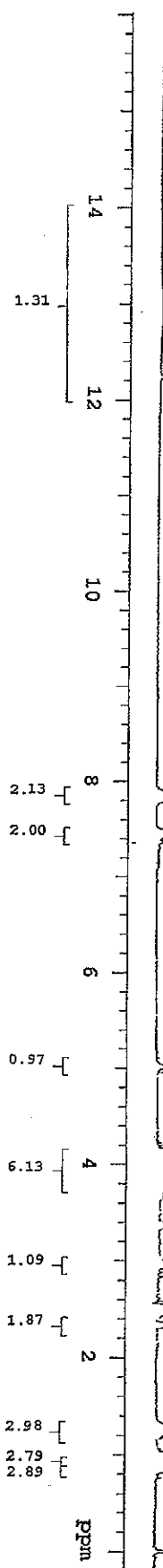
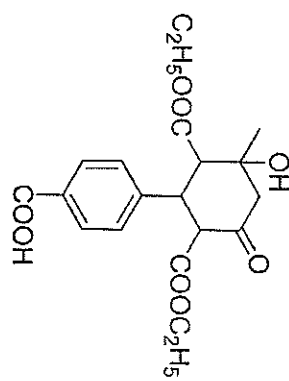
UT0712\_37 16 (0.293) Cm (9.23)

Dr.Reddy's Laboratories Ltd, ARD, TDC-1

1: TOF MS ES+  
1.95e+003



400MHz in DMSO  
AR.No:ME1212/794  
Date: 10th Dec, 2012



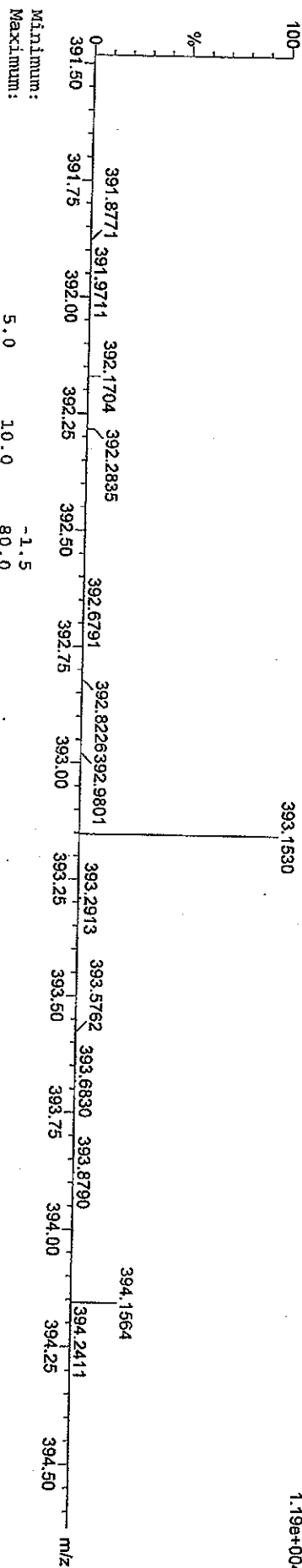
## Elemental Composition Report

### Single Mass Analysis

Tolerance = 10.0 PPM / DBE: min = -1.5, max = 80.0  
Element prediction: Off  
Number of isotope peaks used for i-FIT = 2

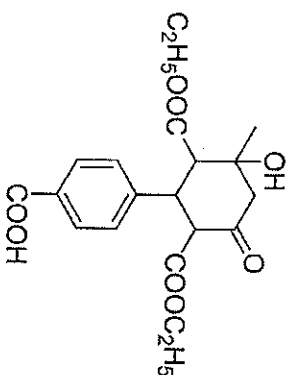
Monoisotopic Mass, Even Electron Ions  
29 formula(e) evaluated with 1 results within limits (up to 5 closest results for each mass)  
Elements Used:  
C: 0-22 H: 0-27 N: 0-1 O: 0-10

UT1212\_073 12 (0.420) Cm (12:17-48:52x0.010)



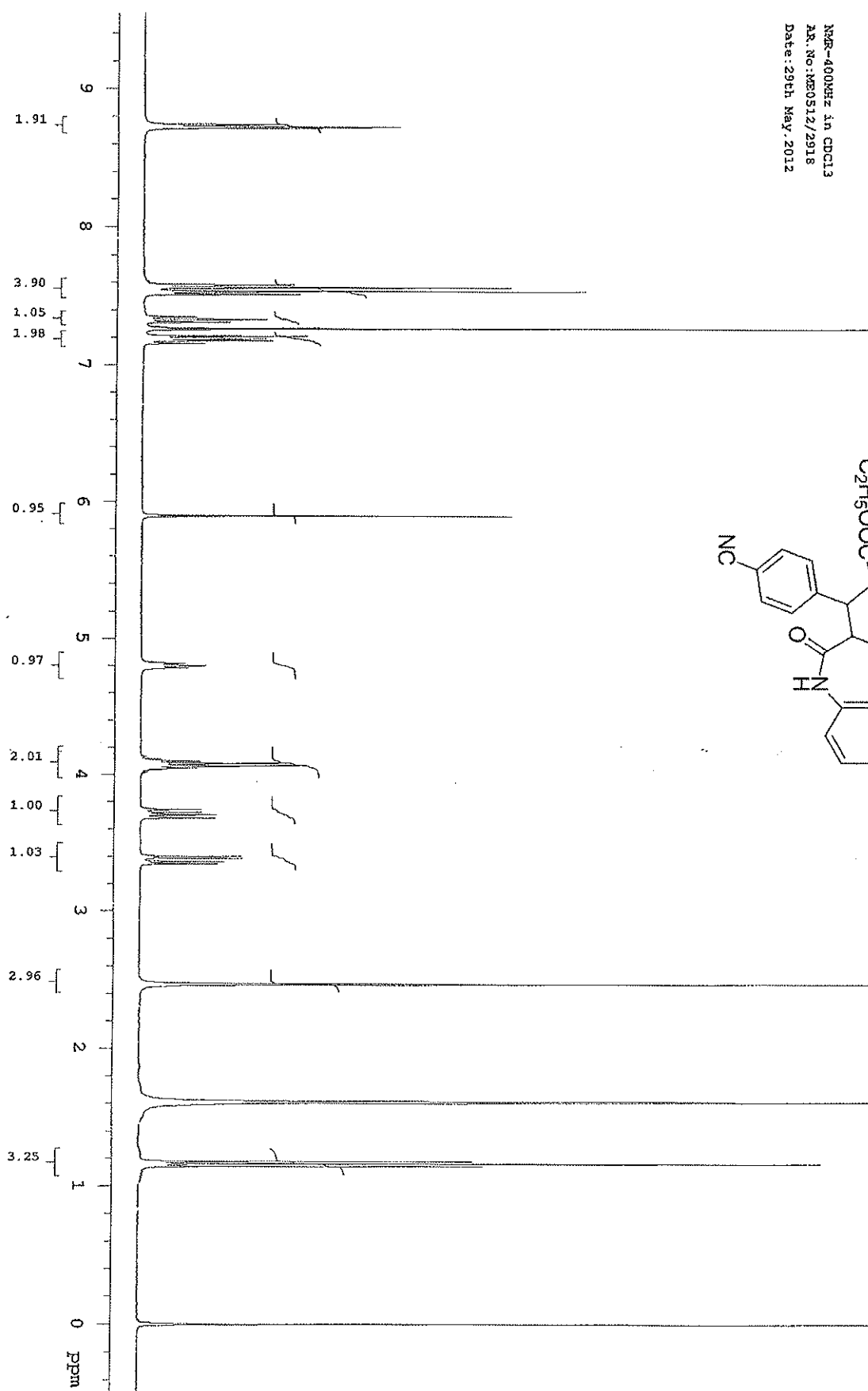
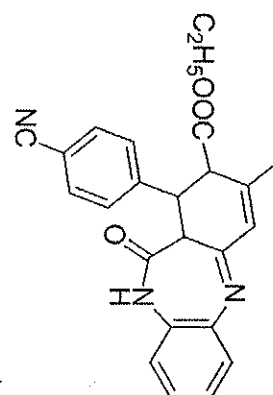
1: TOF MS ES+  
1.19e+004

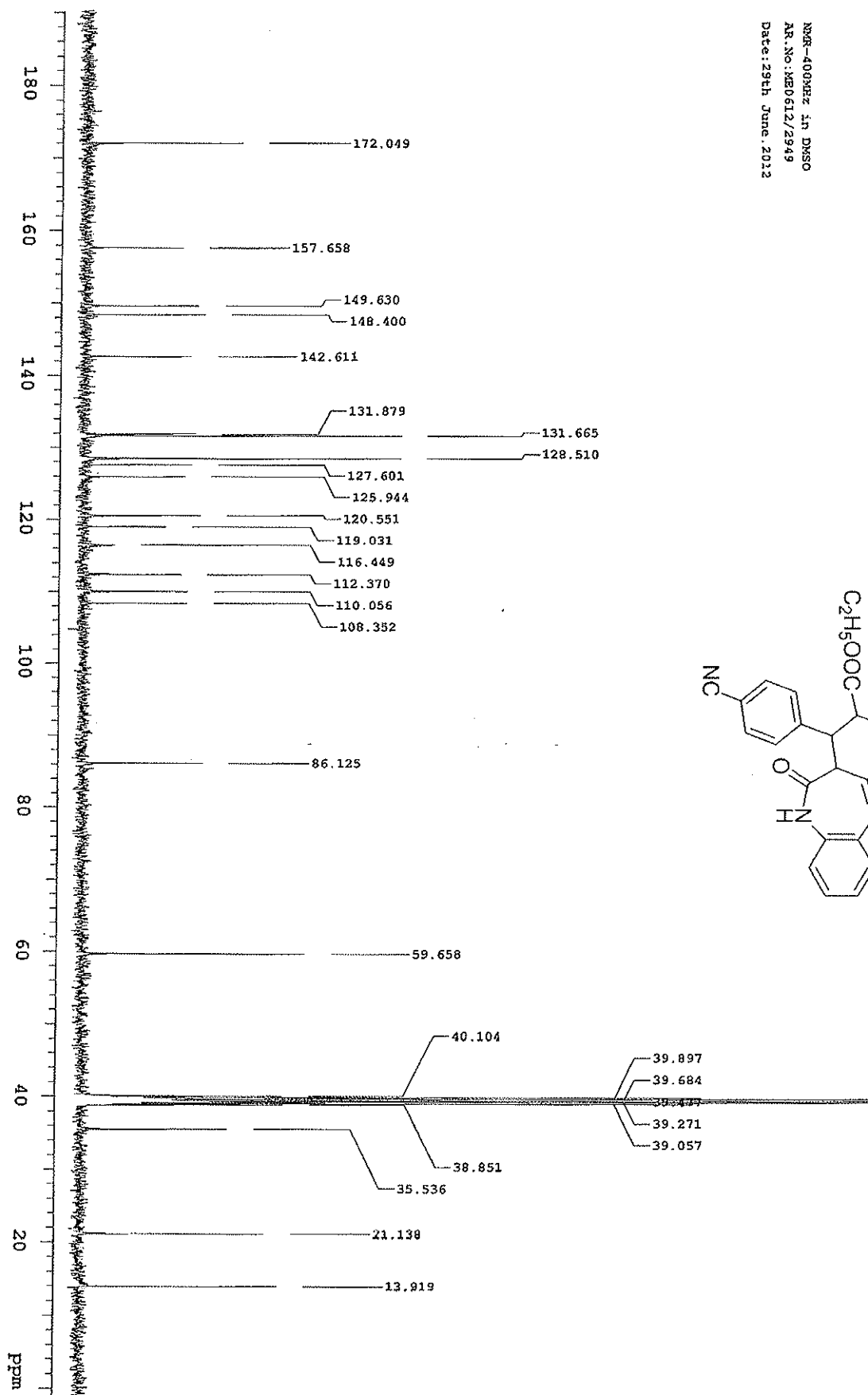
Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Formula
393.1530	393.1549	-1.9	-4.8	8.5	1.1	C20 H25 O8





NMR-400MHz in CDCl<sub>3</sub>  
Ac. No: ME0512/2918  
Date: 29th May 2012





NRX-400MHz in DMSO  
AR.No:ME0612/2949  
Date: 29th June, 2012

**Single Mass Analysis**

Tolerance = 5.0 PPM / DBE: min = -1.0, max = 80.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions

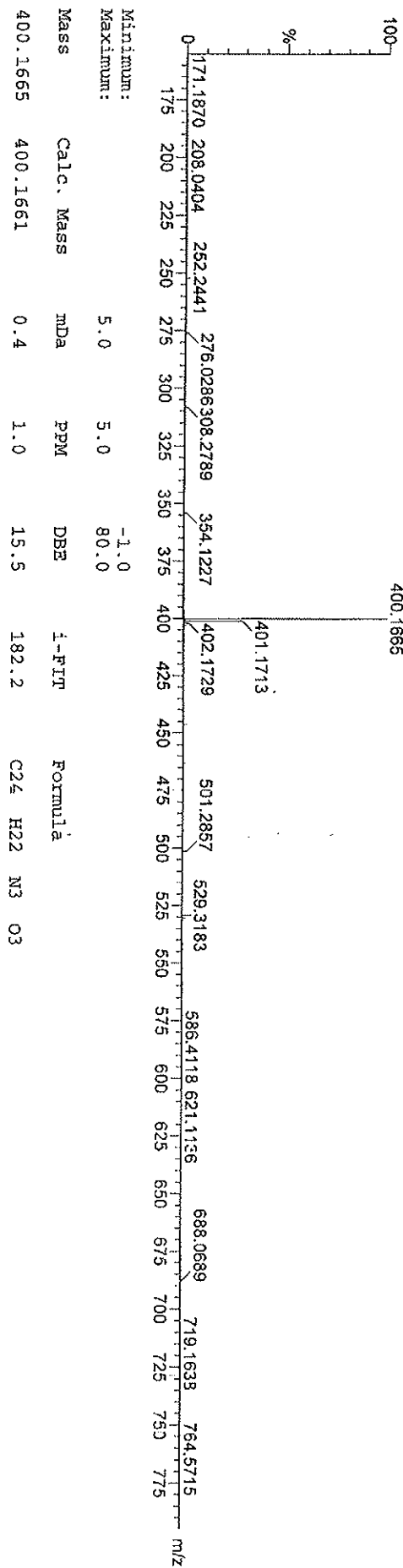
126 formula(e) evaluated with 1 results within limits (up to 4 best isotopic matches for each mass)

Elements Used:

C: 0-35 H: 0-40 N: 0-5 O: 0-5

UT0712\_67 19 (0.353) Cm (19.22)

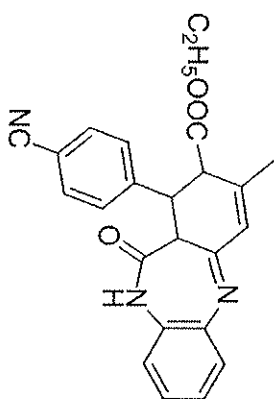
Dr.Reddy's Laboratories Ltd, ARD,TDC-1

1: TOF MS ES+  
2.09e+004

Minimum:

Maximum: 5.0 5.0 -1.0

Mass	Calc. Mass	MDA	PPM	DBE	i-FIT	Formula
400.1665	400.1661	0.4	1.0	15.5	182.2	C24 H22 N3 O3

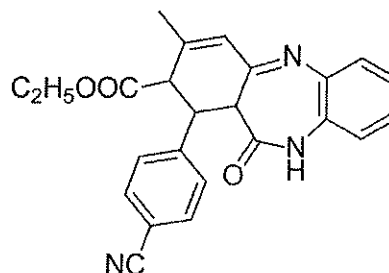


### SAMPLE INFORMATION

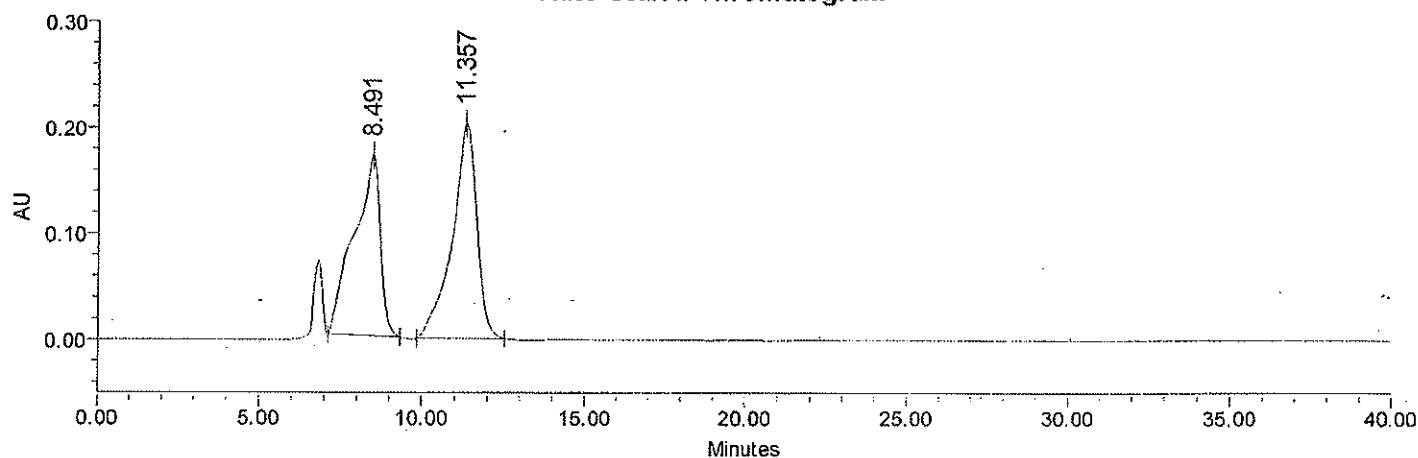
Sample Type	: Unknown	Acquired By	: System
Injection Volume	: 61	Date Acquired	: 10/3/2012 5:53:59 PM
Vial no	: 10.00 ul	Channel Name	: PDA 254.0 nm
Run Time	: 40.00 Minutes	Acq Method Set	: CHIRAL
System Name	: HPLC_005_PDA	Date Processed	: 10/4/2012 11:57:20 AM
Sample Set Name	: 12100302	Project Name	: Alliance_005_OCT_2012
Injection #	: 1	Processing Method	: A

### HPLC CONDITIONS

Column : chiral pak AD-H(250\*4.6)mm5µm  
Mobile\_phase : Ethanol:MeOH:DEA(800:200:1)  
Diluent : DCM  
Flow rate : 0.5 mL/min,  
Column temp : 27 °C, Inj vol:5µl  
Wavelength : 254.0 nm



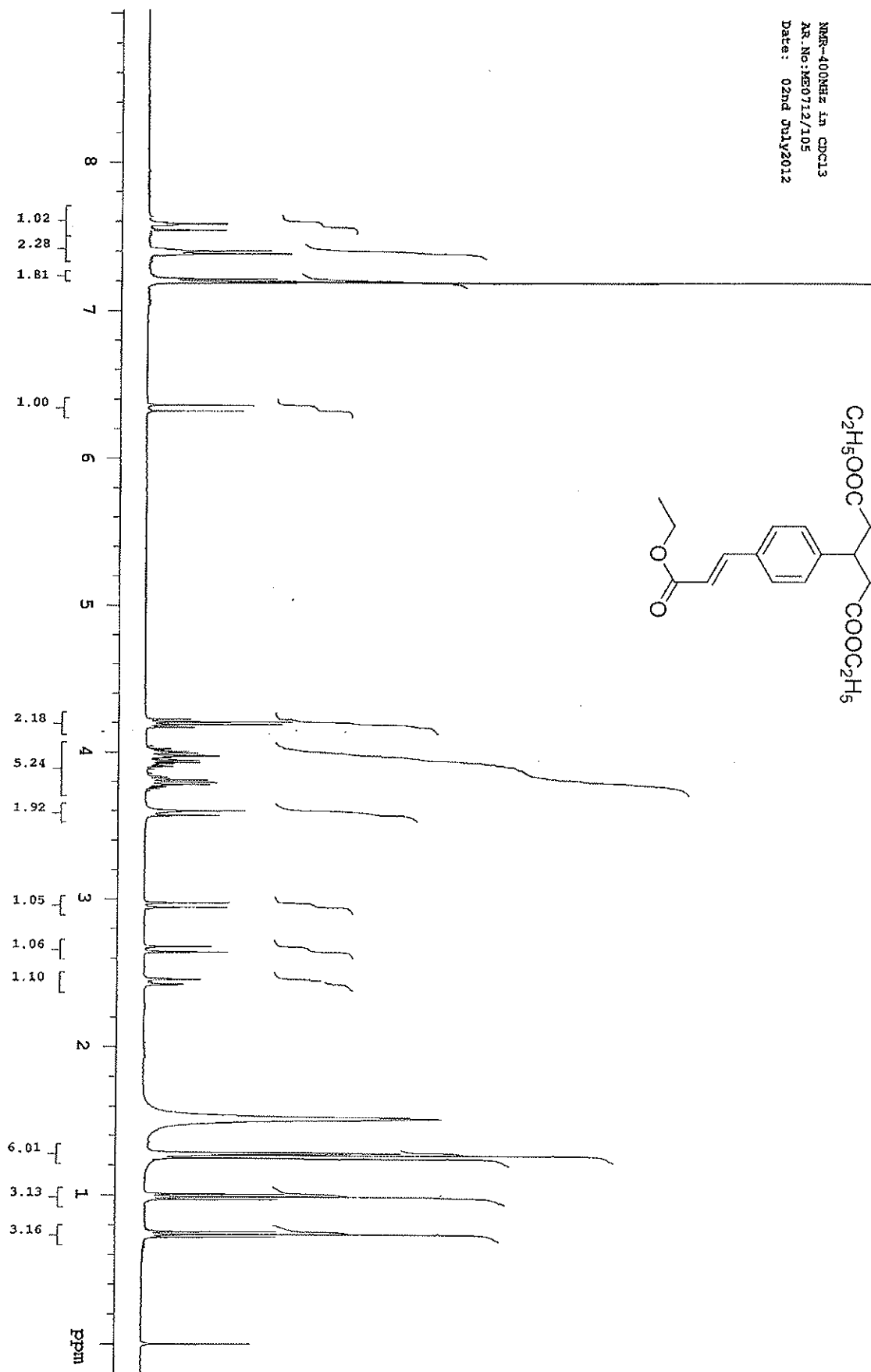
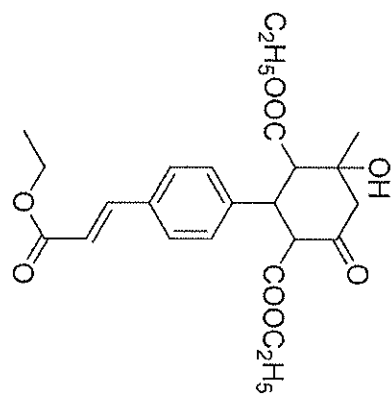
### Auto-Scaled Chromatogram



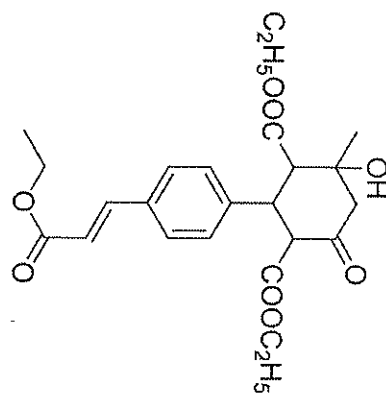
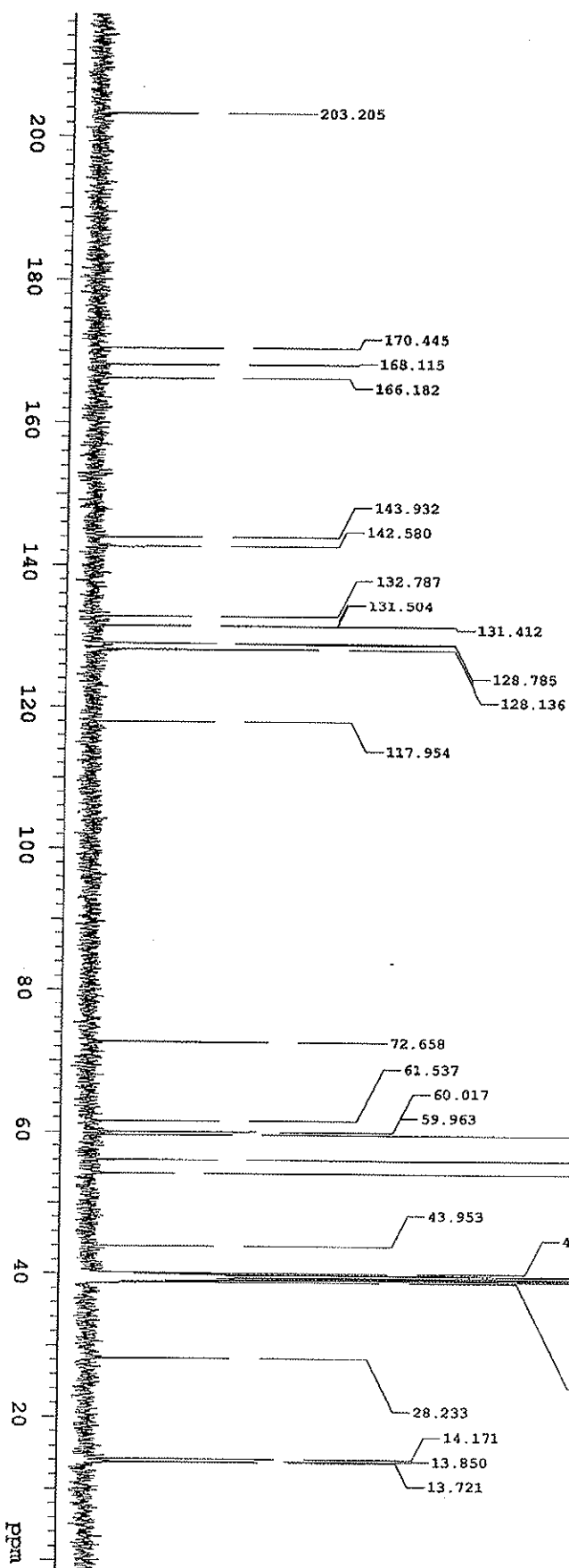
### Peak Results

Name	RT	Area	% Area
1	8.491	9556836	47.57
2	11.357	10532450	52.43

NMR-400MHz 1h CDCl3  
R.R.No:ME0712/105  
Date: 02nd July2012



NMR-400MHz in DMSO  
AR.No:ME0812/218  
Date:02nd August, 2012



**Single Mass Analysis**

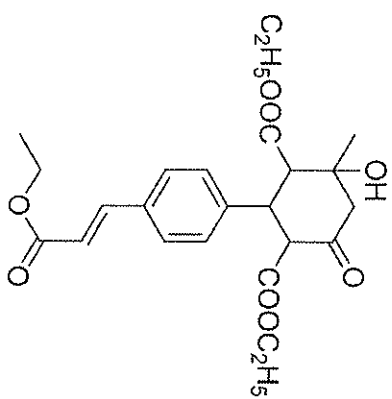
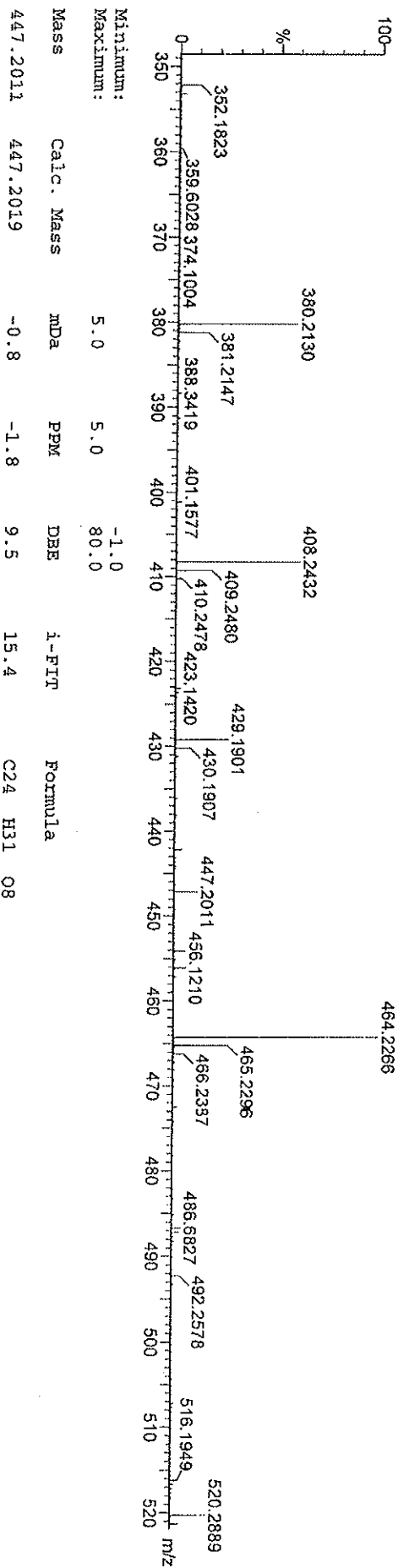
Tolerance = 5.0 PPM / DBE: min = -1.0, max = 80.0  
 Element prediction: Off  
 Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions  
 57 formula(e) evaluated with 1 results within limits (up to 5 closest results for each mass)  
 Elements Used:  
 C: 0-50 H: 0-60 O: 0-10

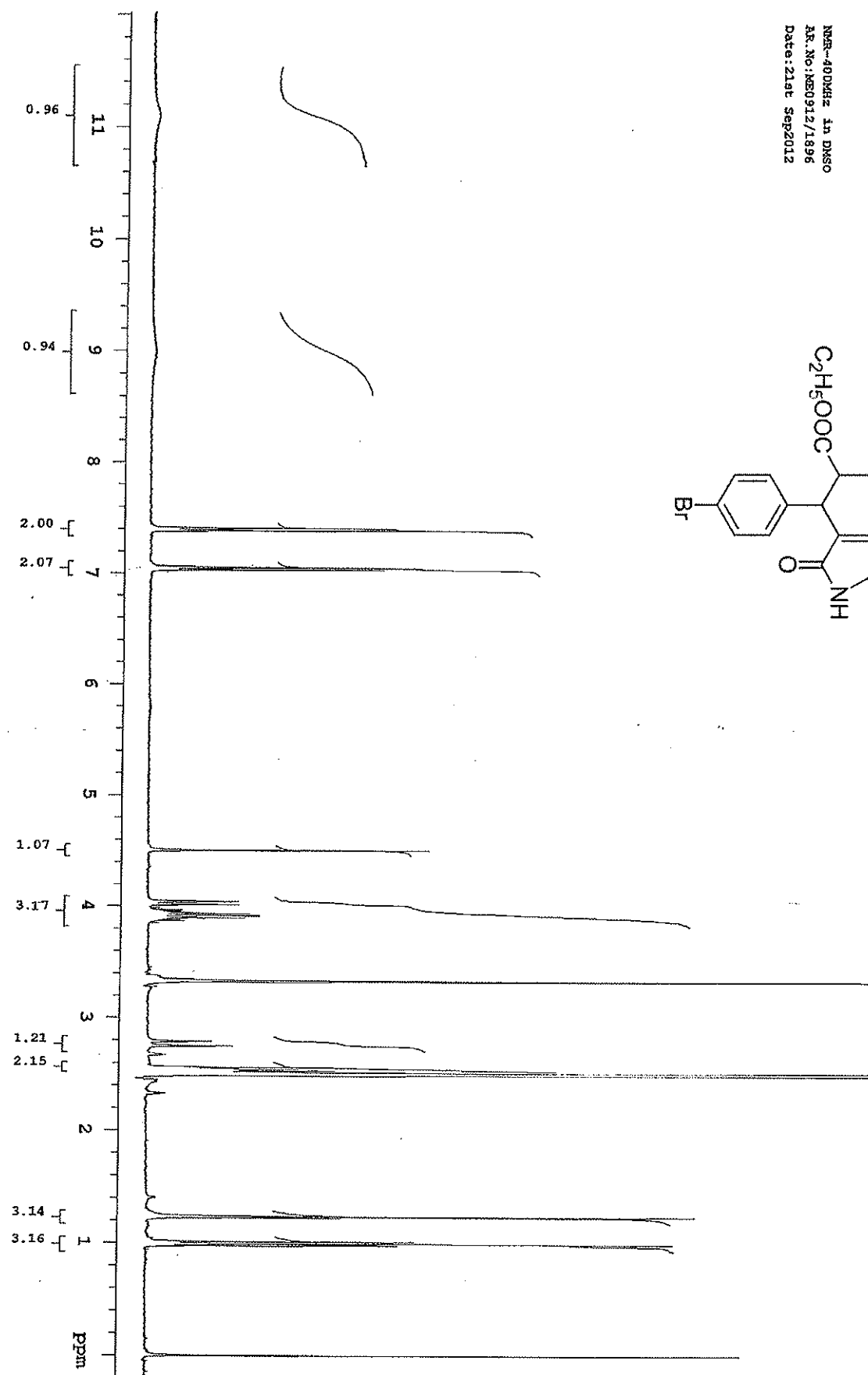
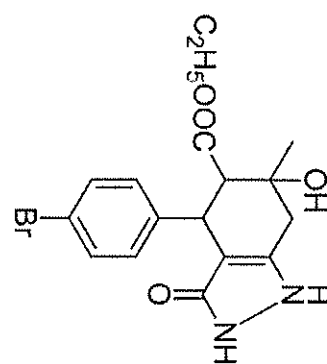
UT0812\_037 16 (0.293) Cm (13:20)

Dr. Readdy's Laboratories Ltd, ARD, TDC-1

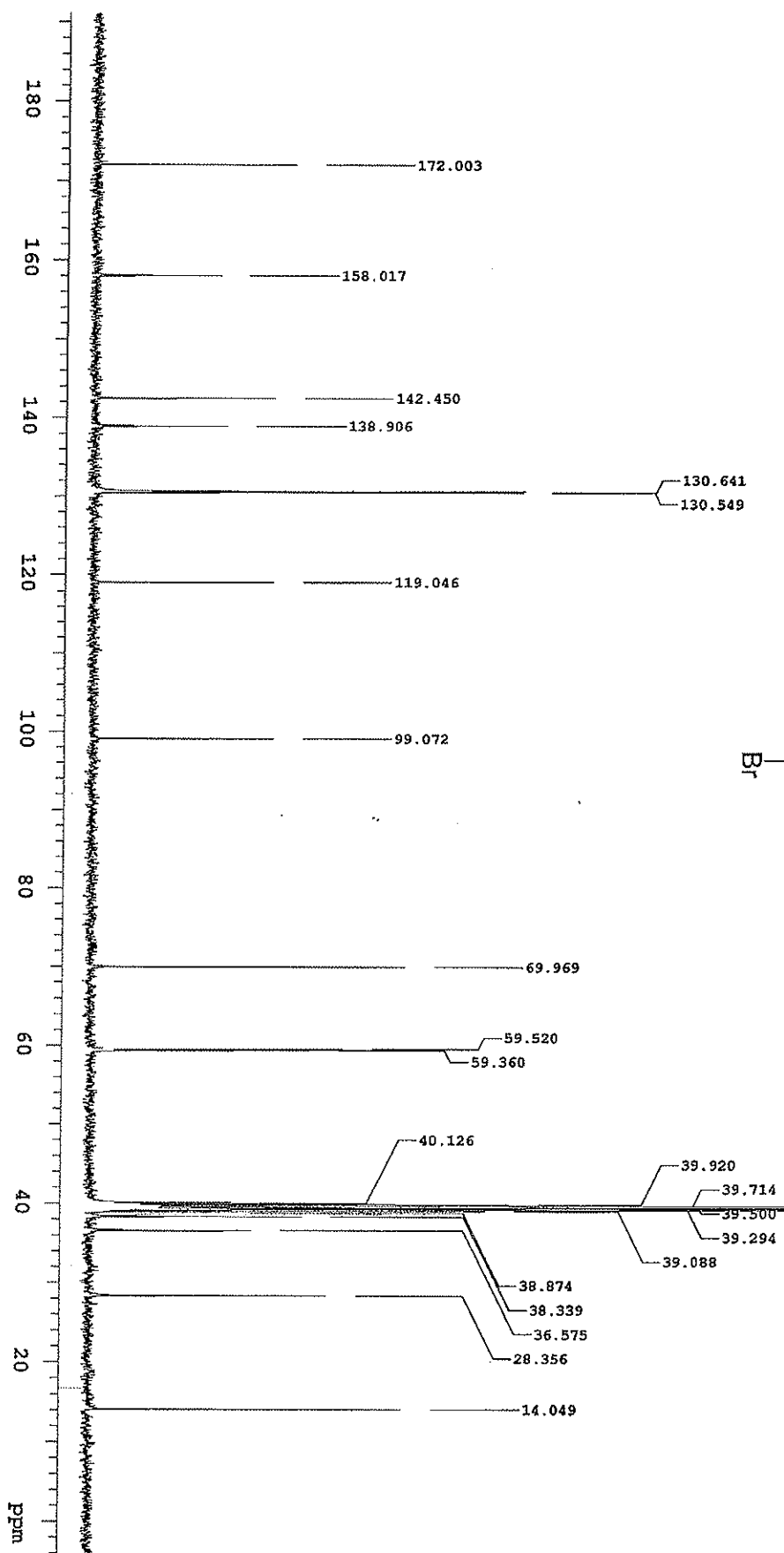
1: TOF MS ES+  
 2.24e+003



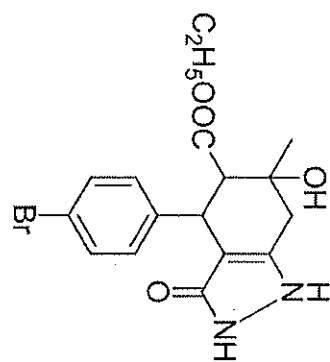
NMR-400MHz in DMSO  
Ac.No:MS0912/1896  
Date:21st Sep2012







NMR-400MHz in DMSO  
AR.No:KE0912/2404  
Date:25th Sep2012



## Elemental Composition Report

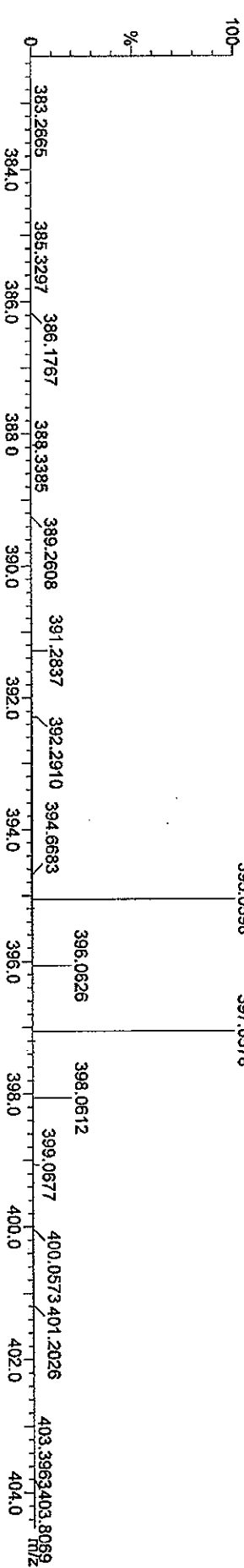
### Single Mass Analysis

Tolerance = 10.0 PPM / DBE: min = -1.5, max = 80.0  
Element prediction: Off  
Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions  
61 formula(e) evaluated with 1 results within limits (up to 4 best isotopic matches for each mass)  
Elements Used:  
C: 0-20 H: 0-20 N: 0-4 O: 0-5 Br: 0-1

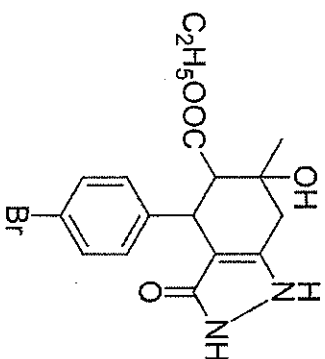
A786/CSAT2/084  
UT1211\_036 25 (0.472) Cm (25:26-77:84x0.010)

1: TOF MS ES+  
6.11e+003

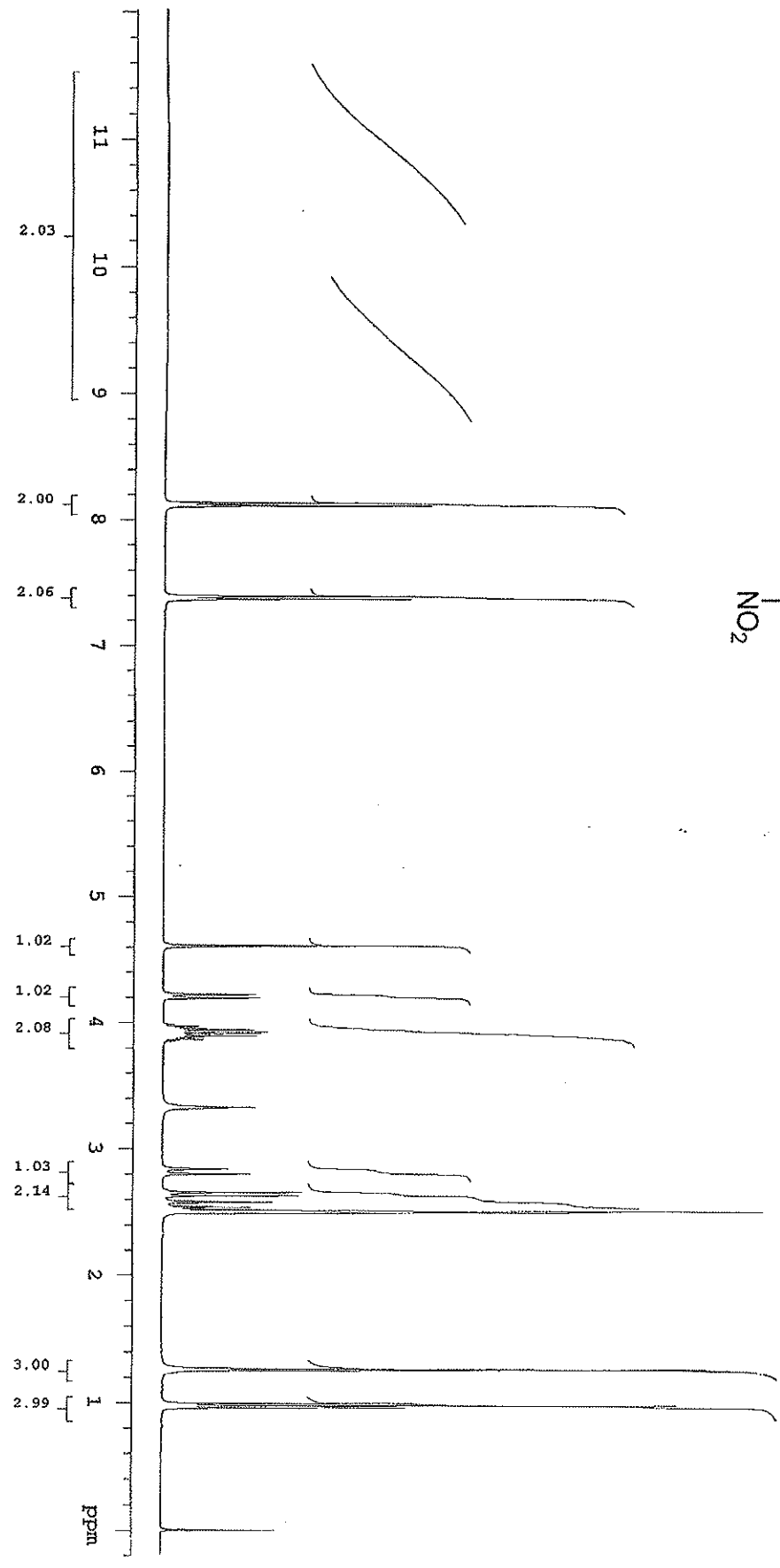
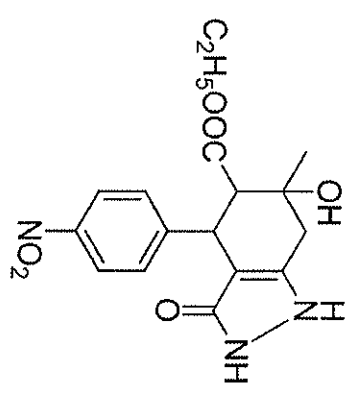


Minimum: 5.0  
Maximum: 10.0  
-1.5  
80.0

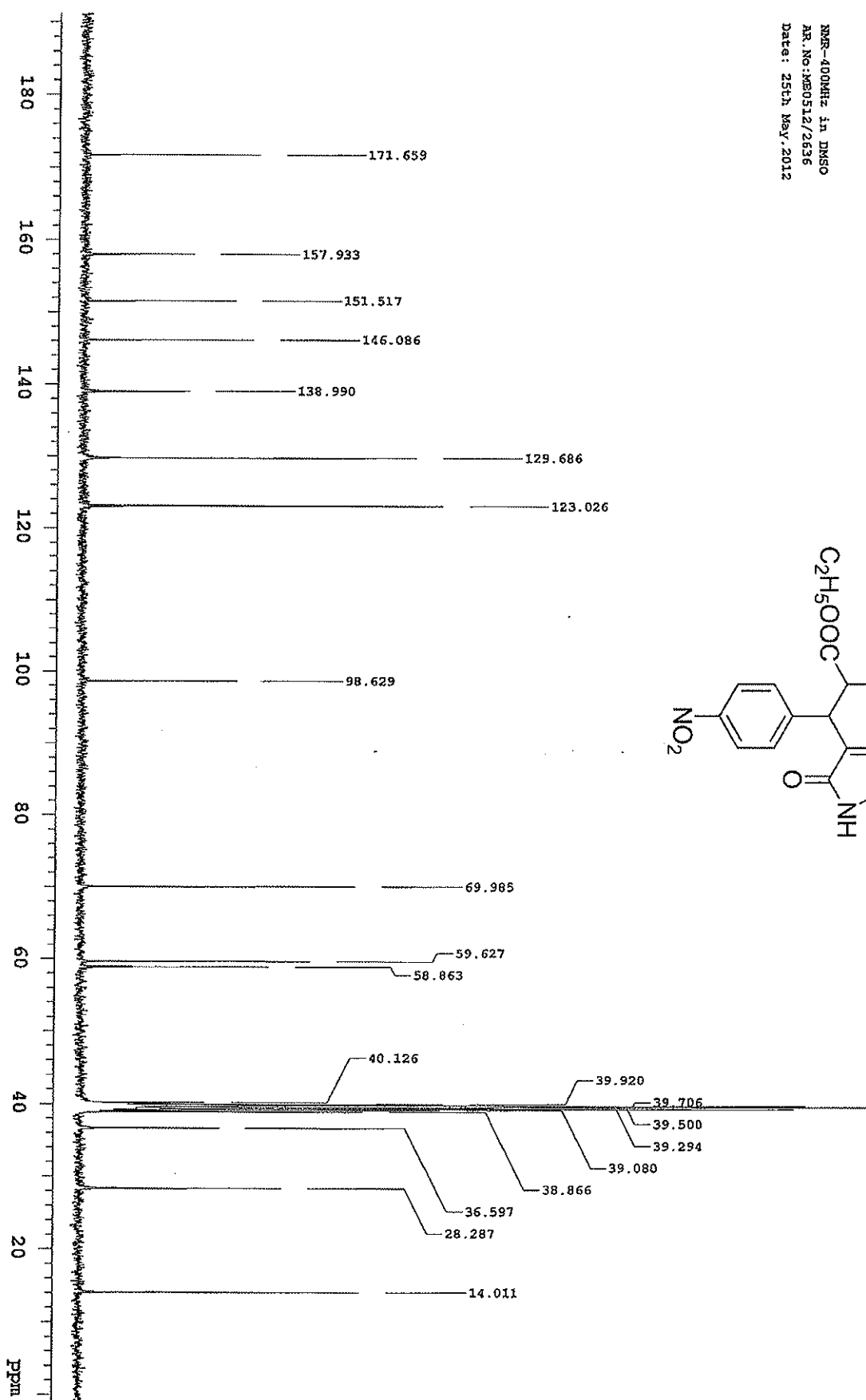
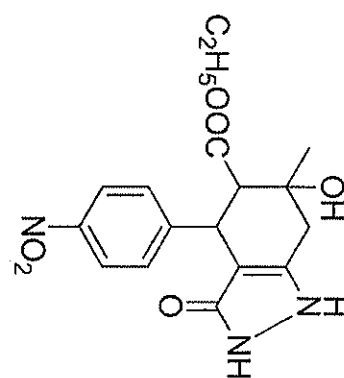
Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Formula
395.0598	395.0606	-0.8	-2.0	8.5	0.8	C17 H20 N2 O4 Br



NMR-400MHz in DMSO  
R.R. No: M0512/2365  
Date: 25th May, 2012



NR-400MHz in DMSO  
AR No:MB0512/2636  
Date: 25th May, 2012



**Single Mass Analysis**

Tolerance = 5.0 PPM / DBE: min = -1.0, max = 40.0  
 Element prediction: Off  
 Number of isotope peaks used for i-FIT = 2

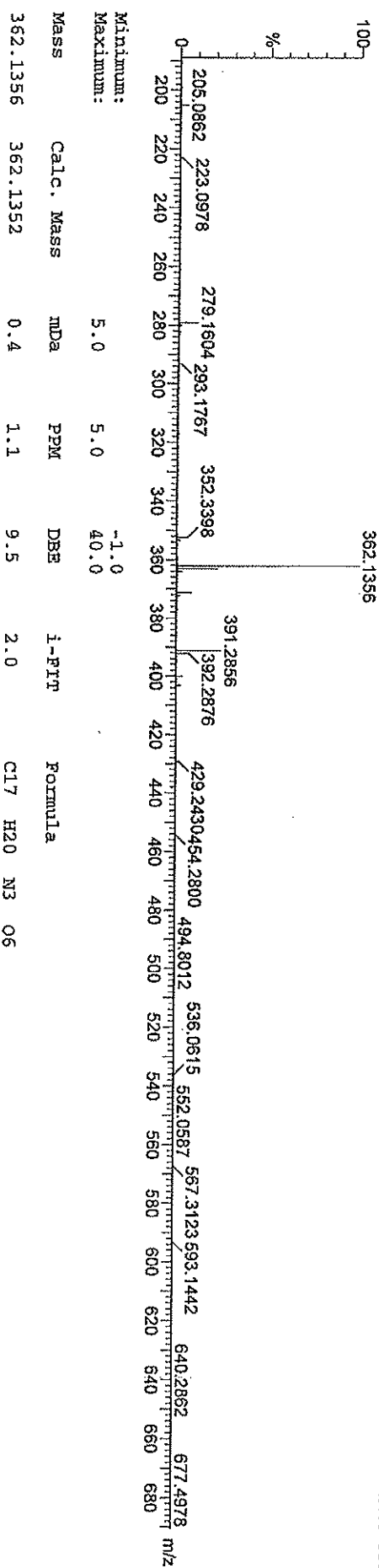
Monoisotopic Mass, Even Electron Ions  
 129 formula(e) evaluated with 1 results within limits (up to 5 best isotopic matches for each mass)  
 Elements Used:

C: 0-25 H: 0-30 N: 0-4 O: 0-10

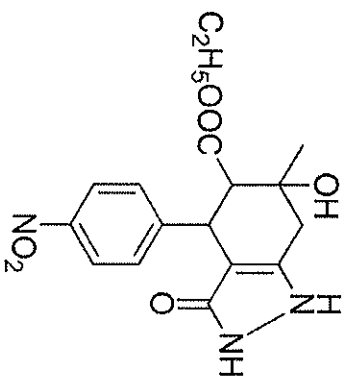
Dr.Reddy's Laboratories Ltd, ARD,TDC-1

UT0612\_031 37 (1.322) Cm (37.49)

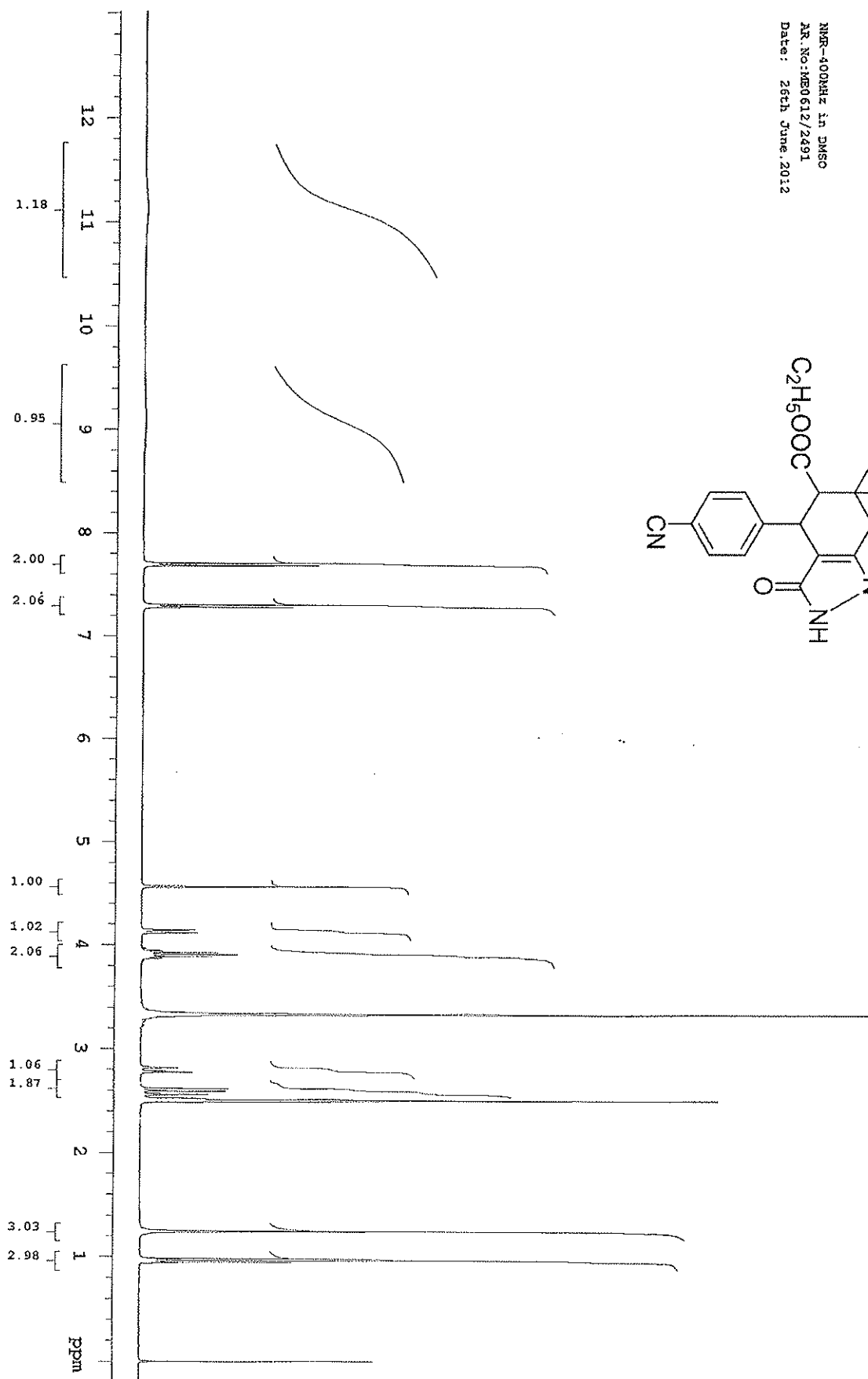
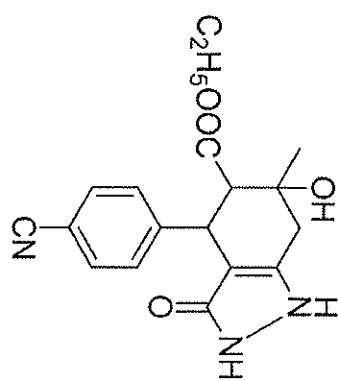
1: TOF MS ES+  
 4.41e+003



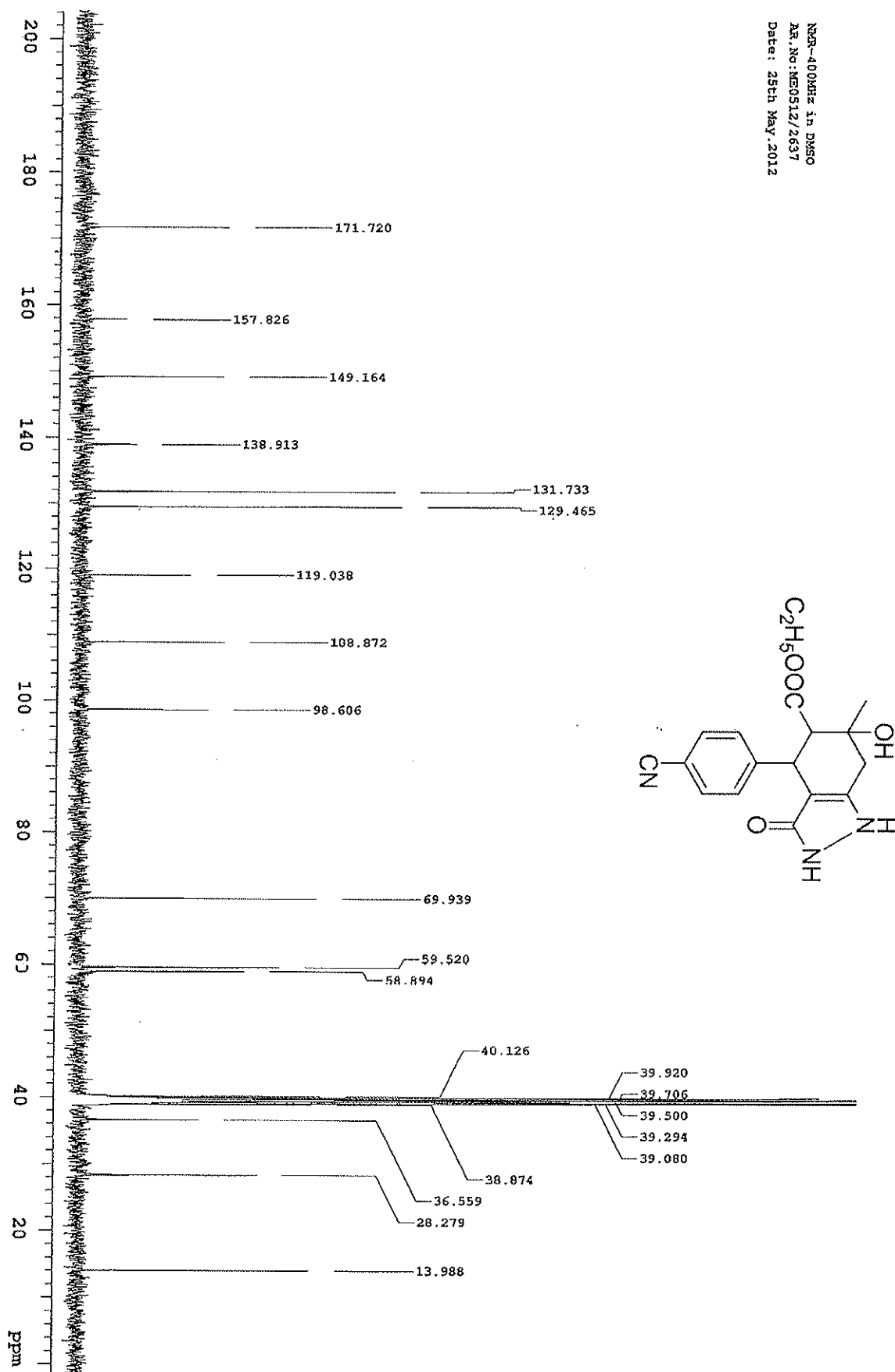
Mass	Calc. Mass	MDa	PPM	DBE	i-FITP	Formula
362.1356	362.1352	0.4	1.1	9.5	2.0	C17 H20 N3 O6



NMR-400MHz in DMSO  
R.R.No:ME0512/2491  
Date: 26th June,2012



NMR-400MHz in DMSO  
Ac. No: ME0512/2637  
Date: 25th May, 2012



**Single Mass Analysis**

Tolerance = 5.0 PPM / DBE: min = -1.0, max = 40.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 2

Monoisotopic Mass, Even Electron Ions

138 formula(e) evaluated with 1 results within limits (up to 5 best isotopic matches for each mass)

Elements Used:

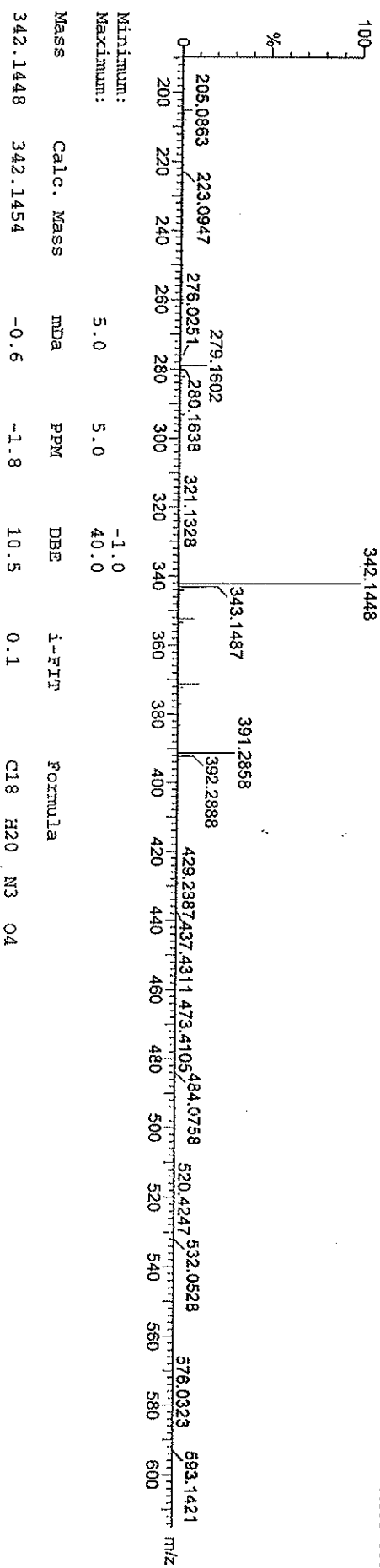
C: 0-25 H: 0-30 N: 0-4 O: 0-10

Dr.Reddy's Laboratories Ltd, ARD, TDC-1

UT0512\_030 32 (1.123) Cm (29:38)

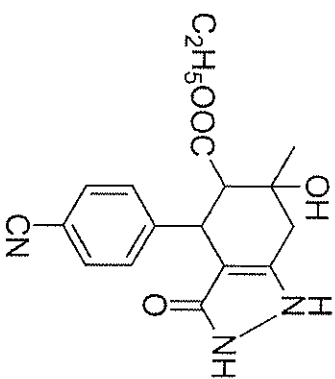
1: TOF MS ES+

7.00e+003



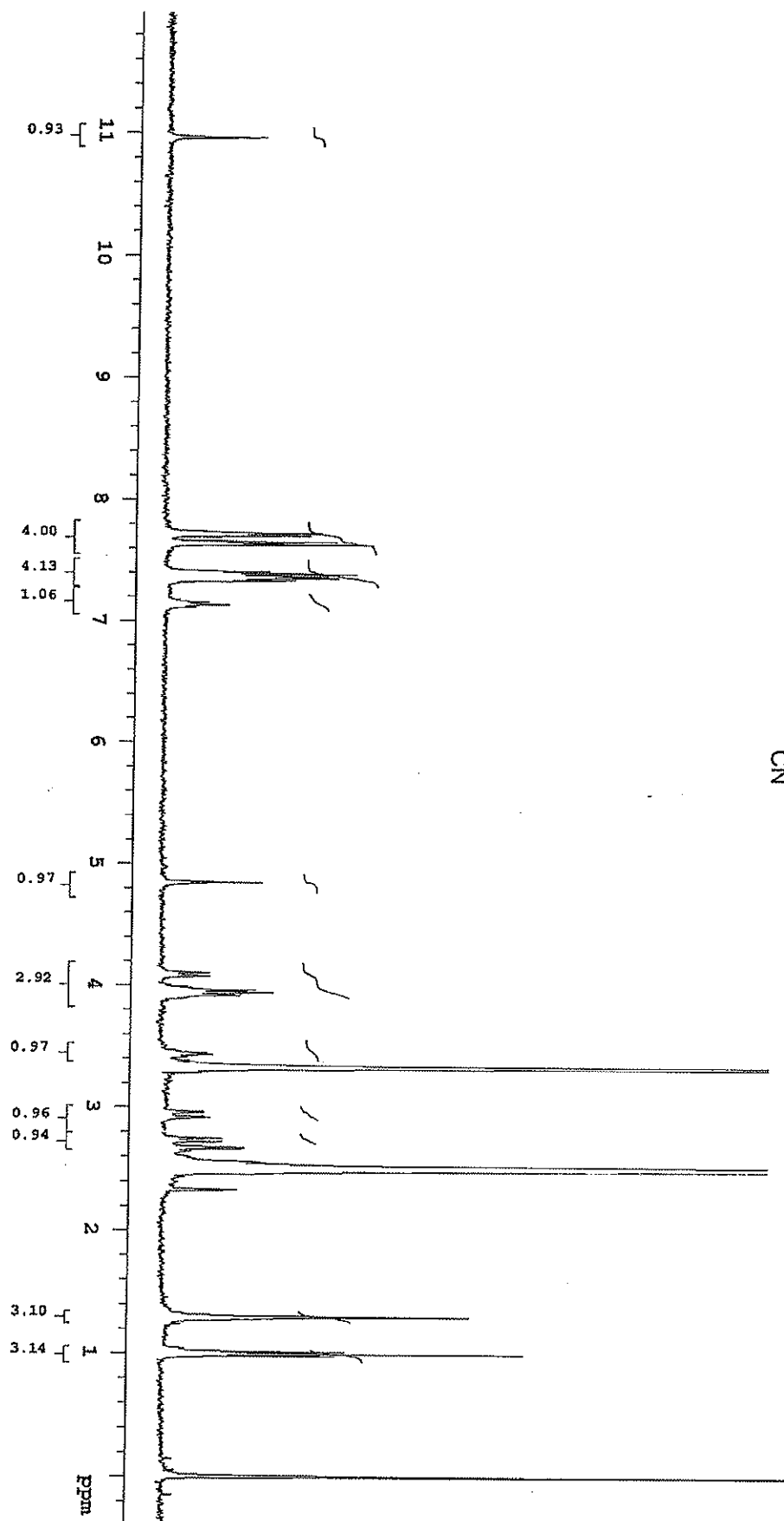
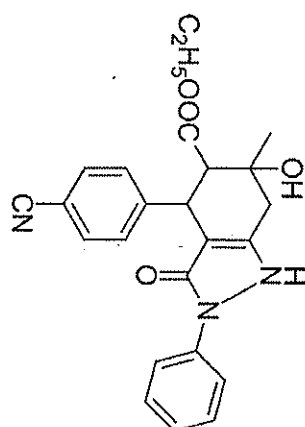
Minimum: 5.0  
 Maximum: 5.0

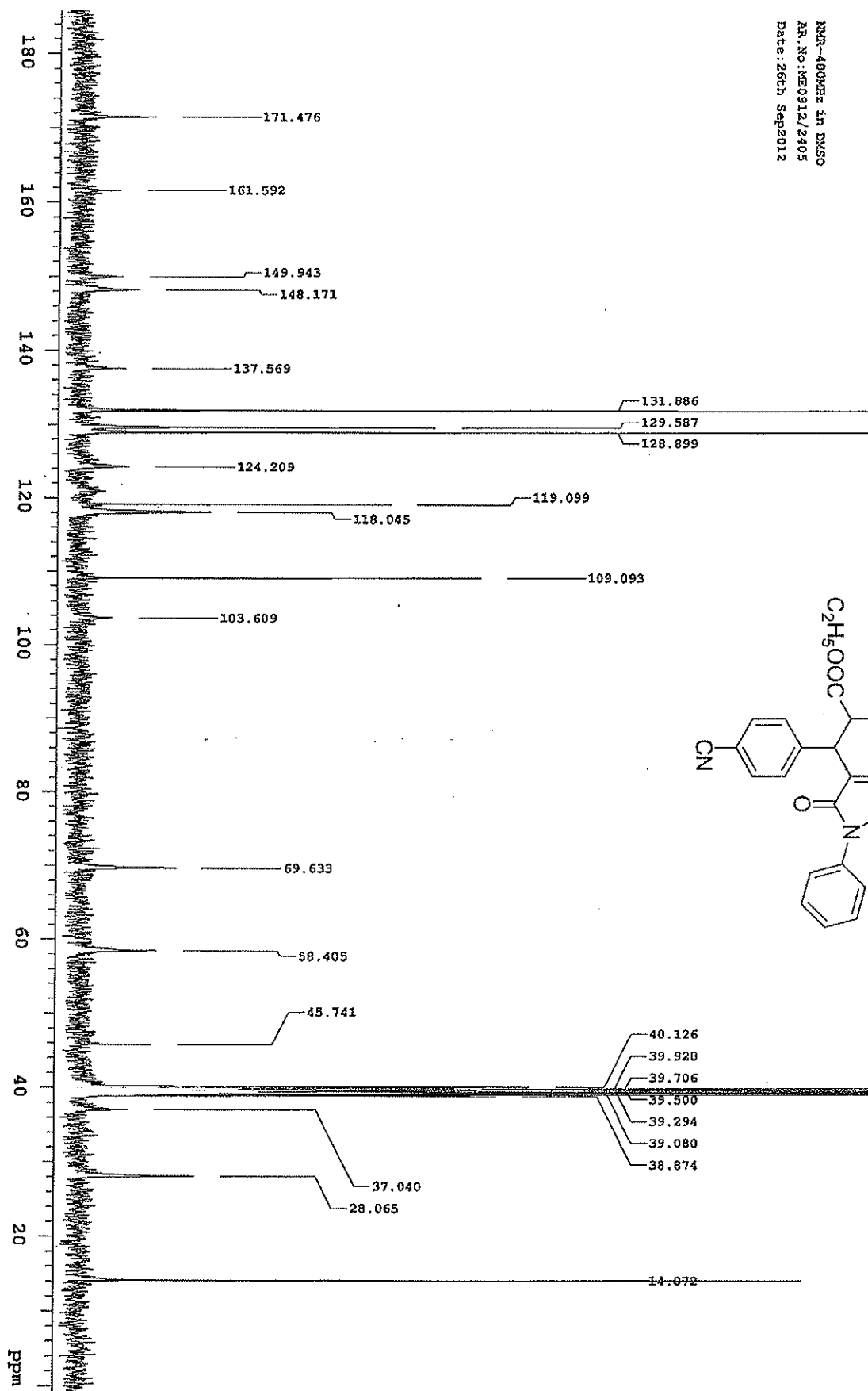
Mass	Calc. Mass	MDA	PPM	DBE	i-FIT	Formula
342.1448	342.1454	-0.6	-1.8	10.5	0.1	C18 H20 N3 O4





NMR-400MHz in DMSO  
AR.No:ME0912/1897  
Date:21st Sep2012





NMR-400MHz in DMSO  
R.N: KE0912/2405  
Date: 26th Sep 2012

## Elemental Composition Report

### Single Mass Analysis

Tolerance = 20.0 PPM / DBE: min = -1.5 max = 80.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions

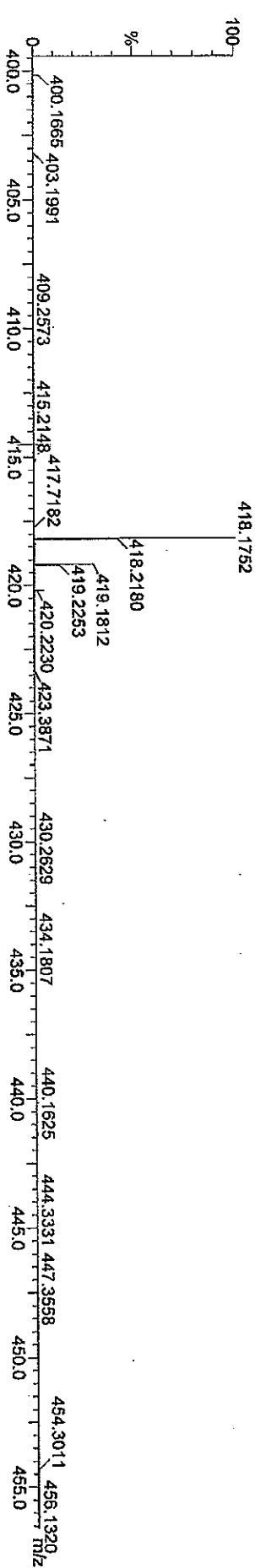
27 formula(e) evaluated with 1 results within limits (up to 4 best isotopic matches for each mass)

Elements Used:

C: 0-26 H: 0-26 N: 0-4 O: 0-5

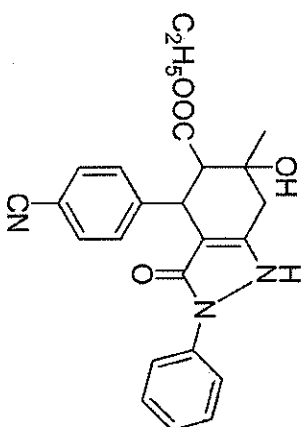
UT1211\_037 16 (0.292) Cm (14:18-49:56x0.010)

1: TOF MS ES+  
1.12e+005

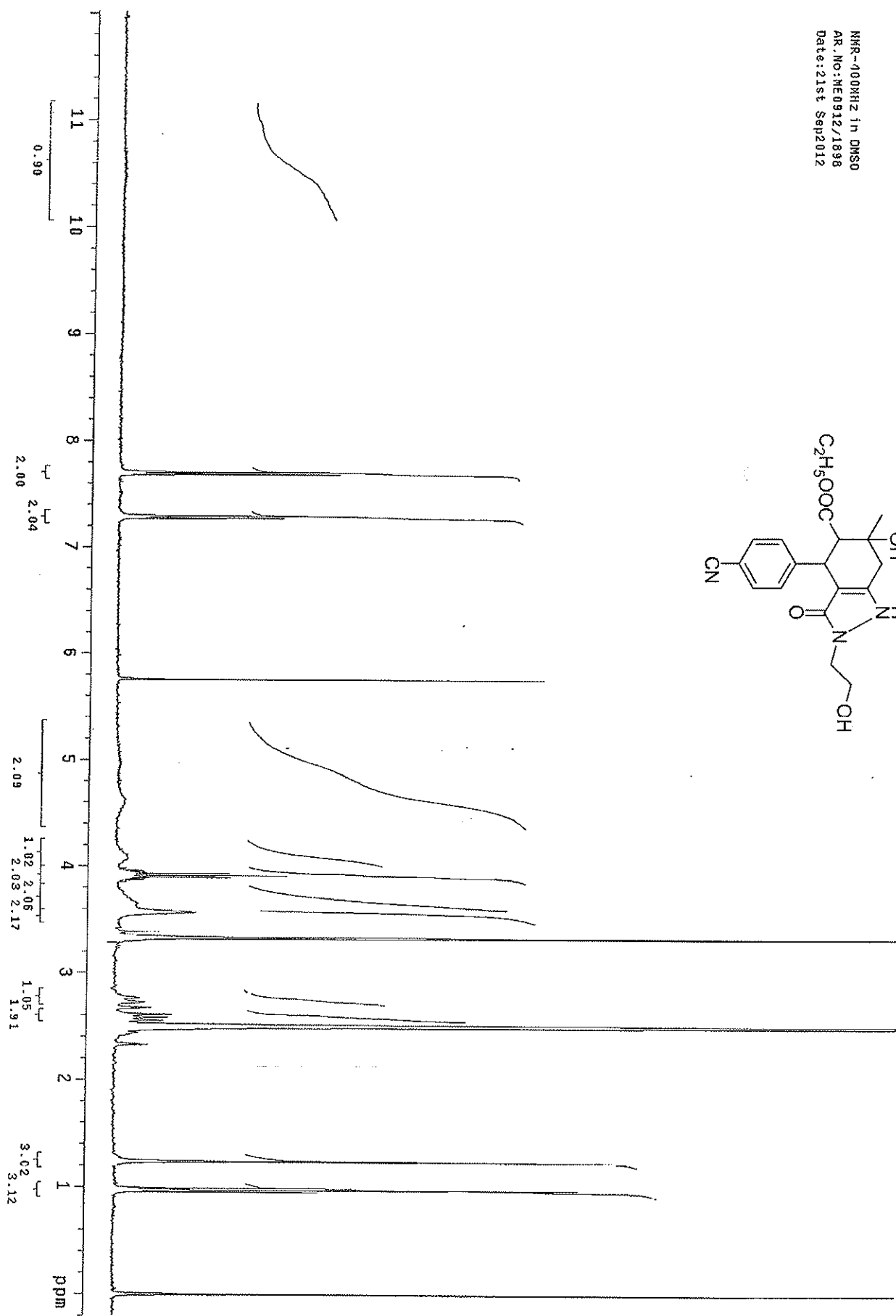
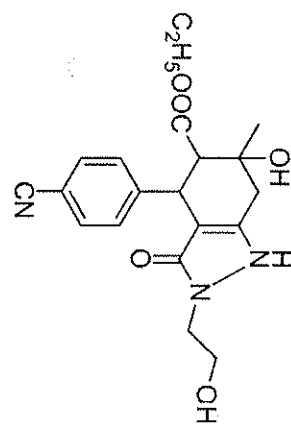


Minimum: 5.0  
Maximum: 80.0

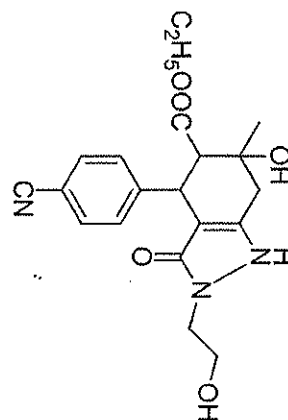
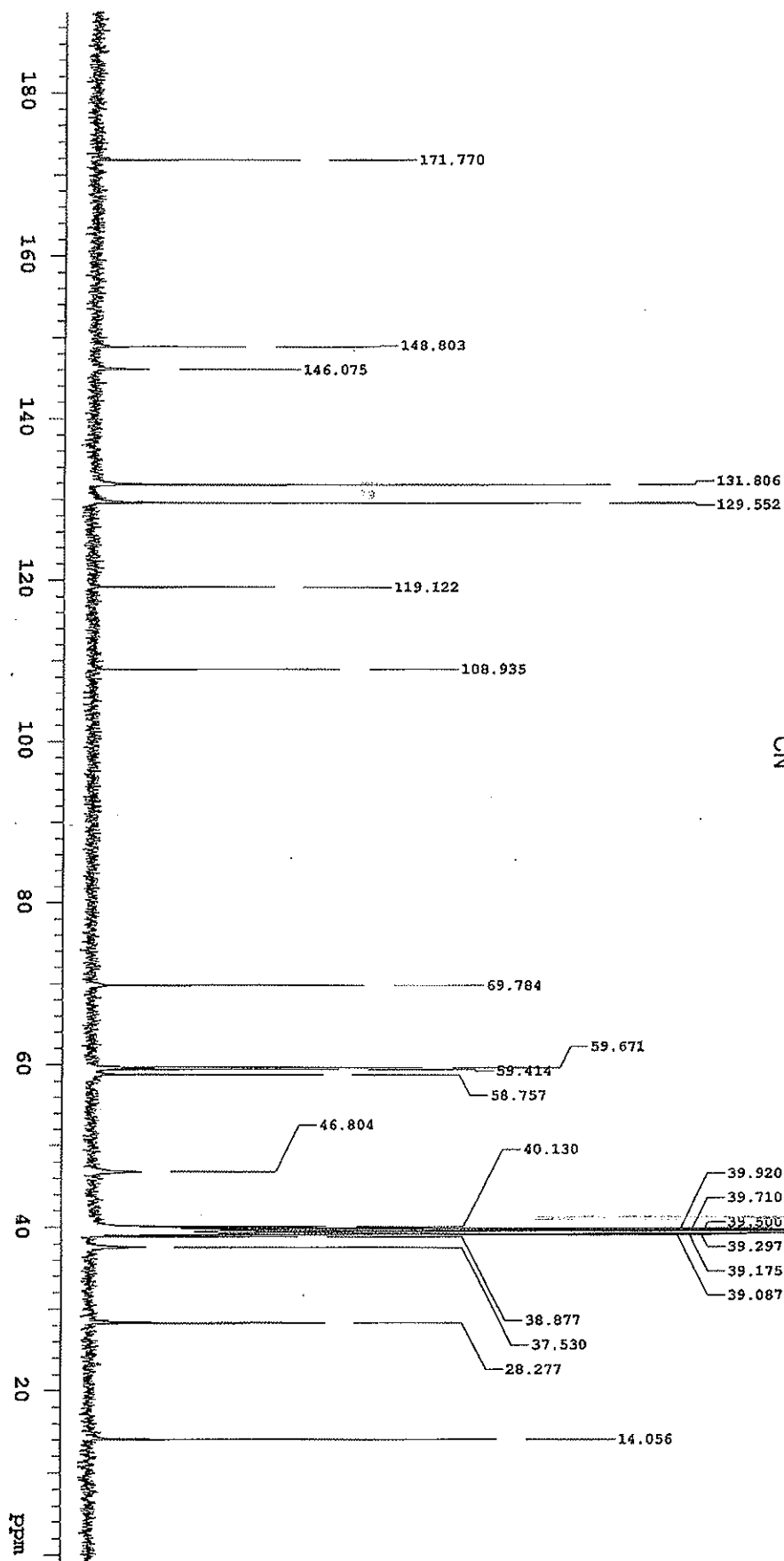
Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Formula
418.1752	418.1767	-1.5	-3.6	14.5	26.9	C24 H24 N3 O4



MKR-400MHz in DMSO  
AR\_No:ME0912/1896  
Date:21st Sep2012



NMR-400MHz in DMSO  
Ac. No: ME0912/2733  
Date: 28th Sep 2012



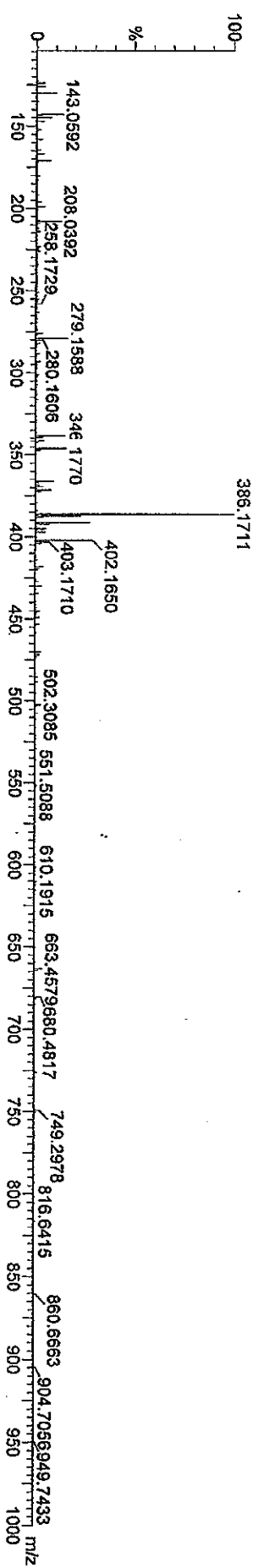
## Elemental Composition Report

### Single Mass Analysis

Tolerance = 5.0 PPM / DBE: min = -1.5, max = 80.0  
 Element prediction: Off  
 Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions  
 45 formula(e) evaluated with 1 results within limits (up to 4 best isotopic matches for each mass)  
 Elements Used:  
 C: 0-26 H: 0-26 N: 0-4 O: 0-5

UT1211\_038 18 (0.340) Cm (18:22-52:76x0.010)



1: TOF MS ES+  
 4.60e+003

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Formula
386.1711	386.1716	-0.5	-1.3	10.5	0.8	C20 H24 N3 O5
Minimum:			5.0	5.3		-1.5
Maximum:						80.0

