

**New Hybrid Hydrazinyl Thiazole Substituted Chromones: As Potential α -Amylase
Inhibitors and Radical (DPPH & ABTS) Scavengers**

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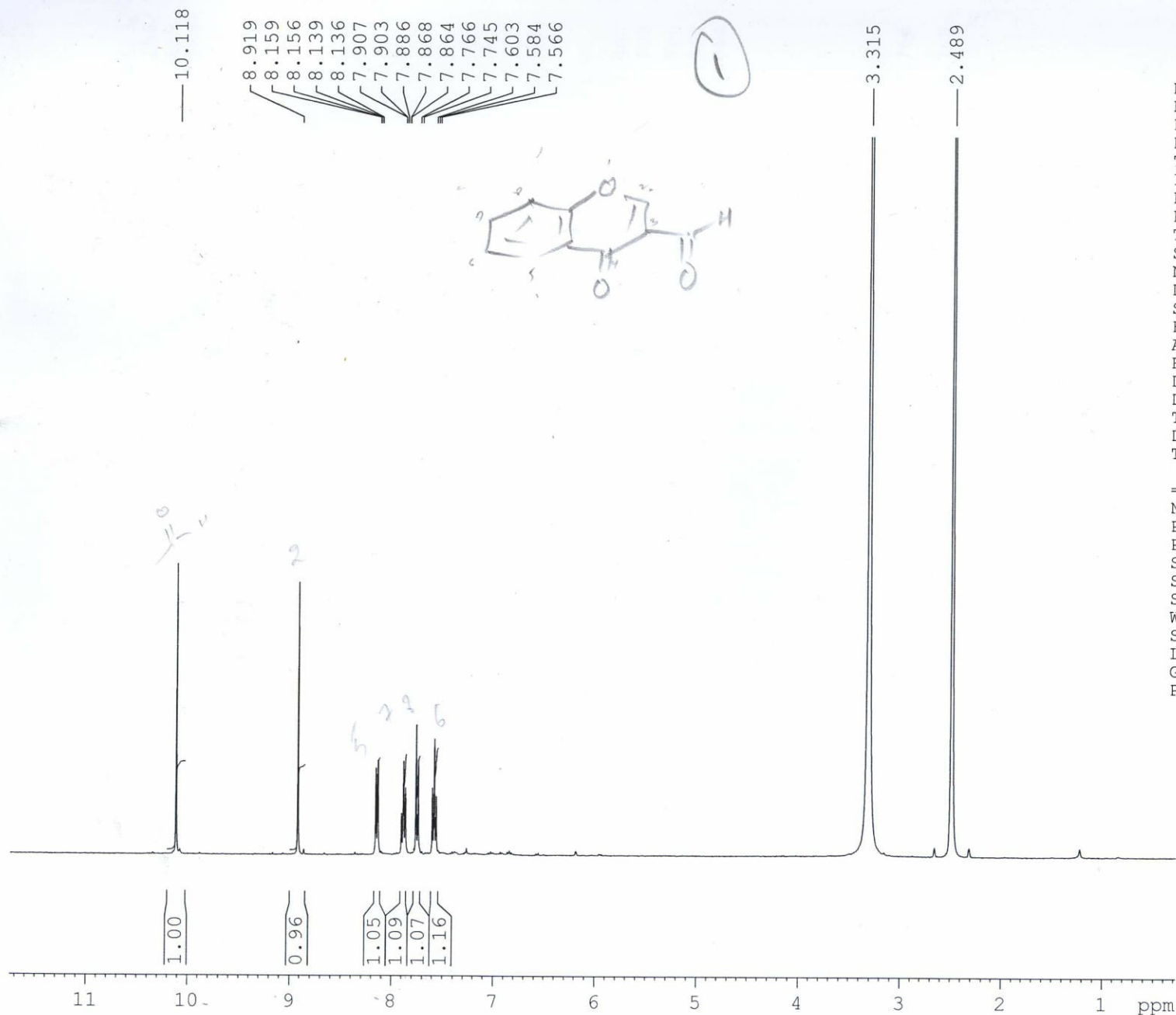
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Pakistan*

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00922134819018

UZMA/DR, KHALID/US-IV-74/
ICCBS, U.O.K/

Compound 1

AVANCE 400
LAB NO 117



NAME aug26-14
EXPNO 6
PROCNO 1
Date_ 20140826
Time_ 11.43
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 32
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 2048
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300071 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

File: US-IV-75
Sample: UZMA SALAR / DR. KHALID
Instrument: JEOL JMS 600-H

Date Run: 08-22-2014 (Time Run: 11:44:18)

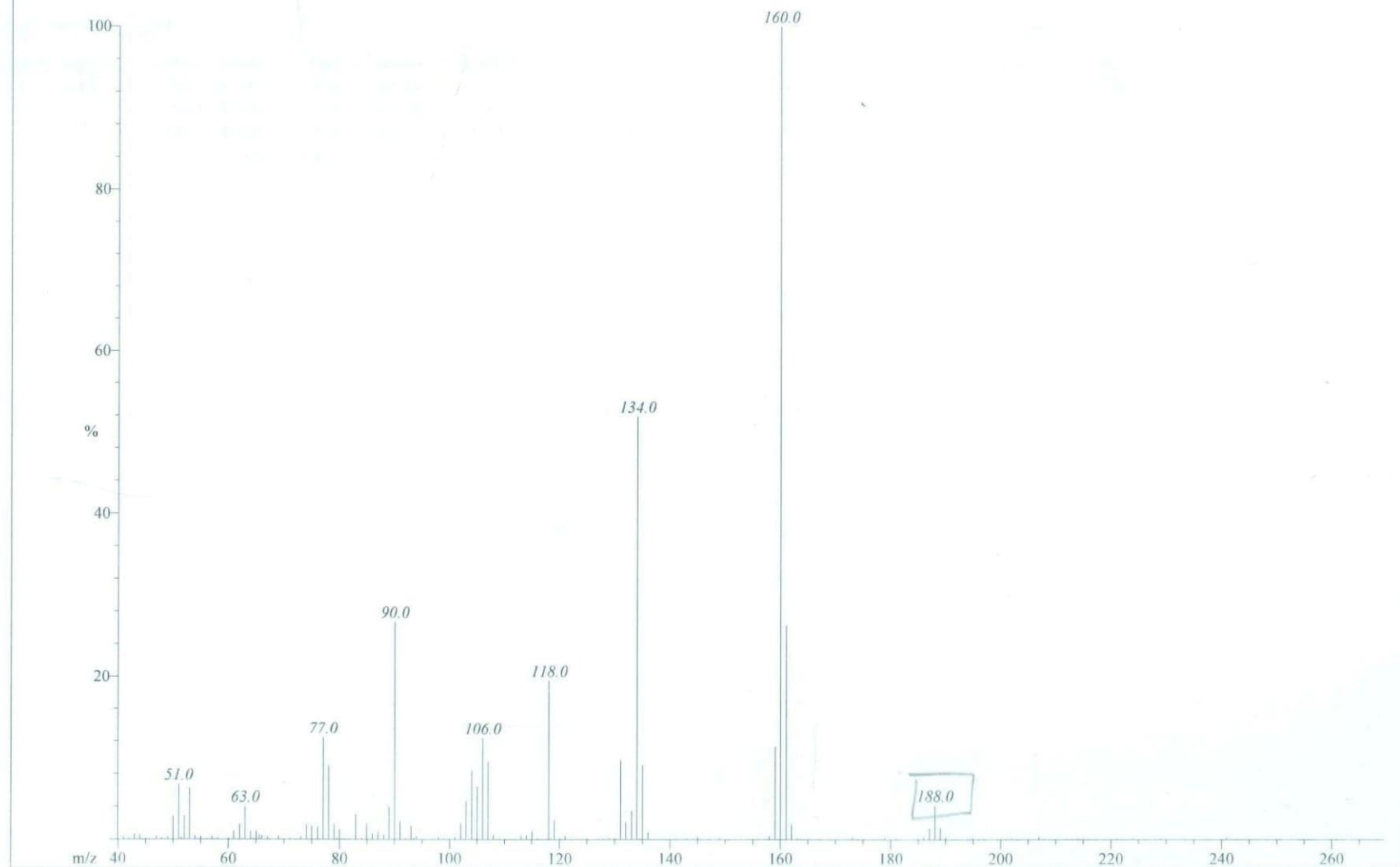
Compound 2

Ionization mode: EI+

Scan: 9

R.T.: .72

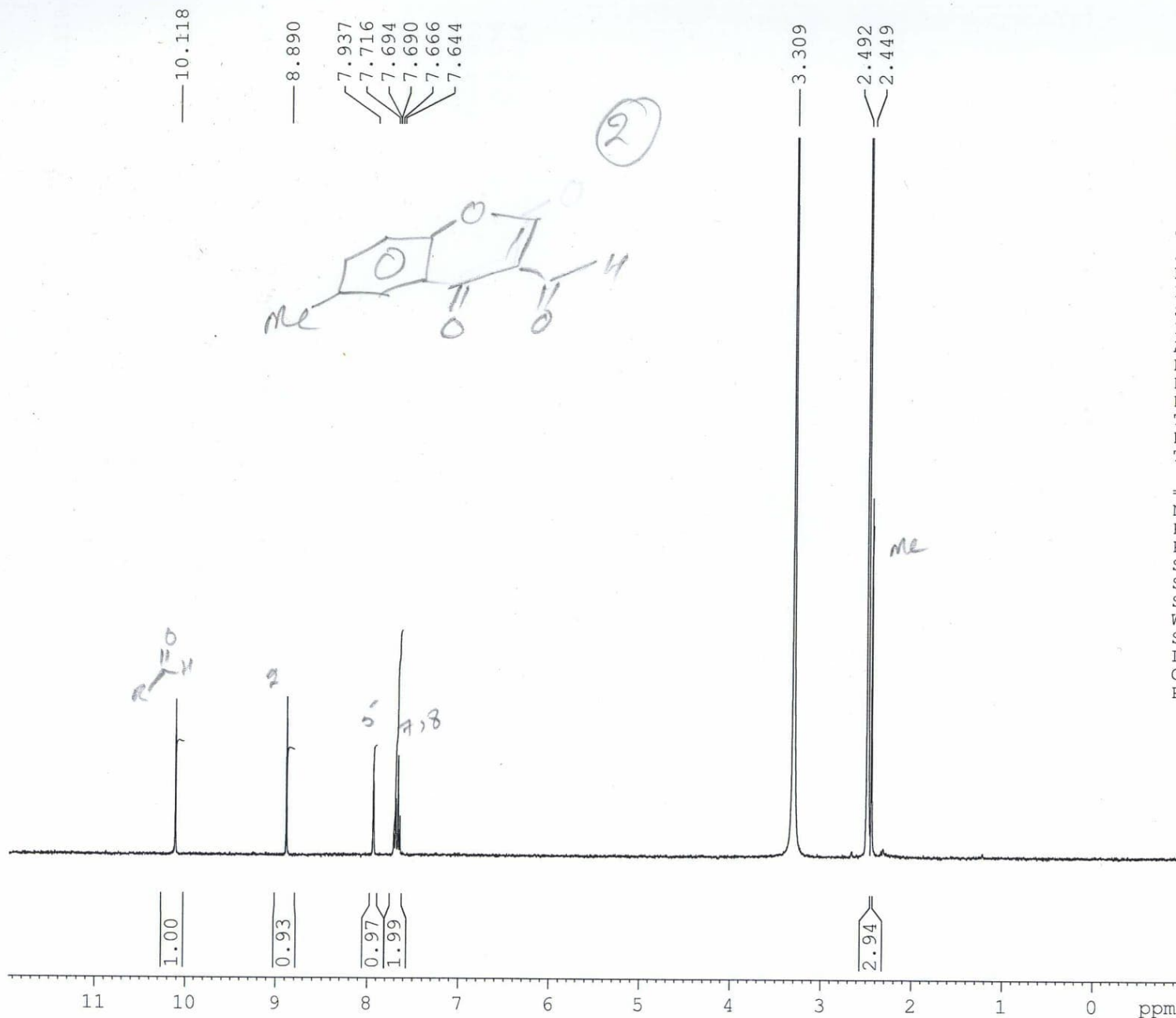
Base: m/z 160; 99.4%FS TIC: 4395024



UZMA/DR, KHALID/US-IV-75/
ICCBS, U.O.K/

Compound 2

AVANCE 400
LAB NO 117



NAME sep05-14
EXPNO 2
PROCNO 1
Date 20140905
Time 9.57
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 2048
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

File: US-V-7
Sample: UZMA SALAR /DR. KHALID
Instrument: JEOL JMS 600-H
Inlet: My Inlet

Date Run: 09-11-2014 (Time Run: 09:19:18)

Compound 3

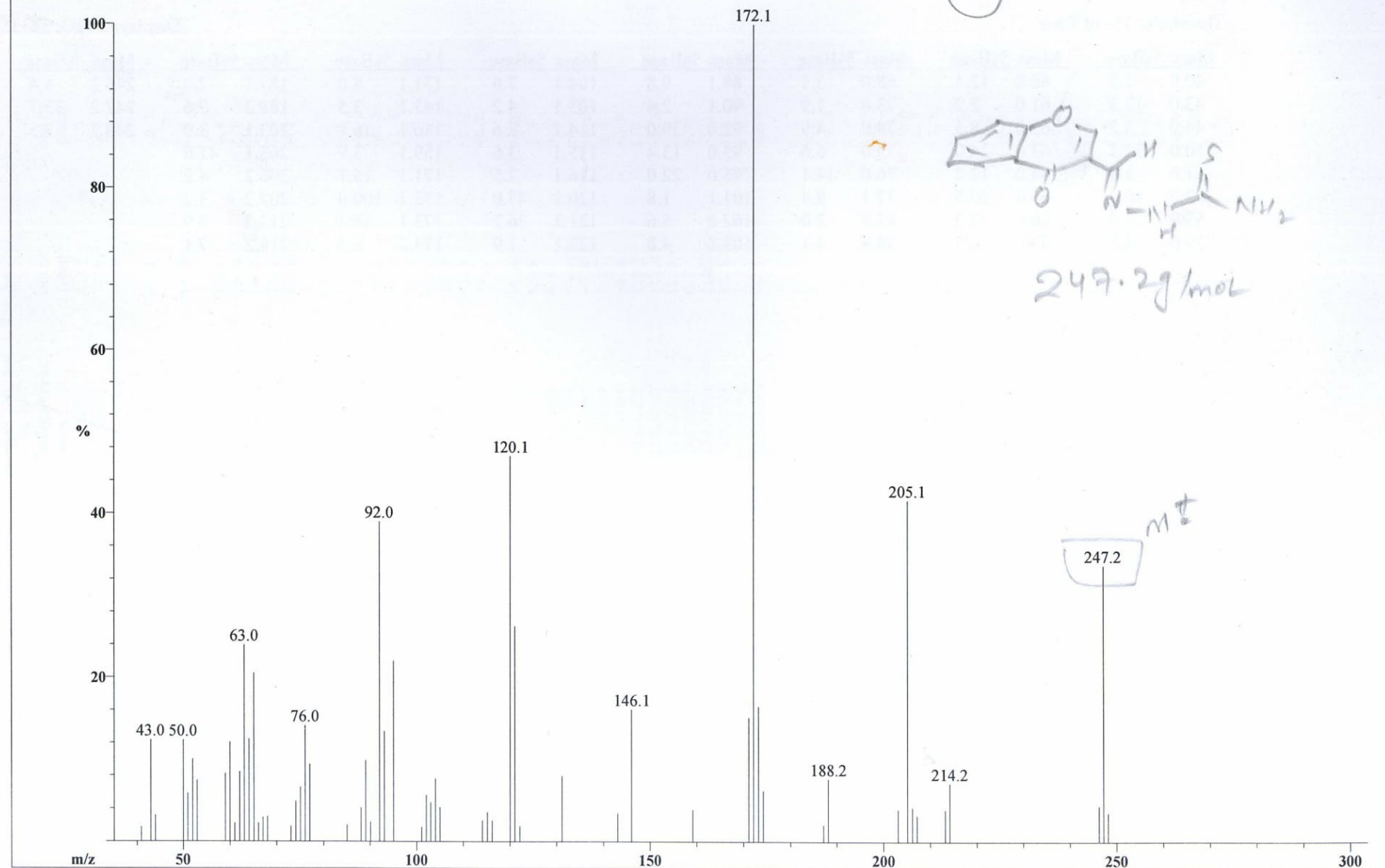
Ionization mode: EI+

Scan: 30

R.T.: 2.58

Base: m/z 172; 4.6%FS TIC: 323351

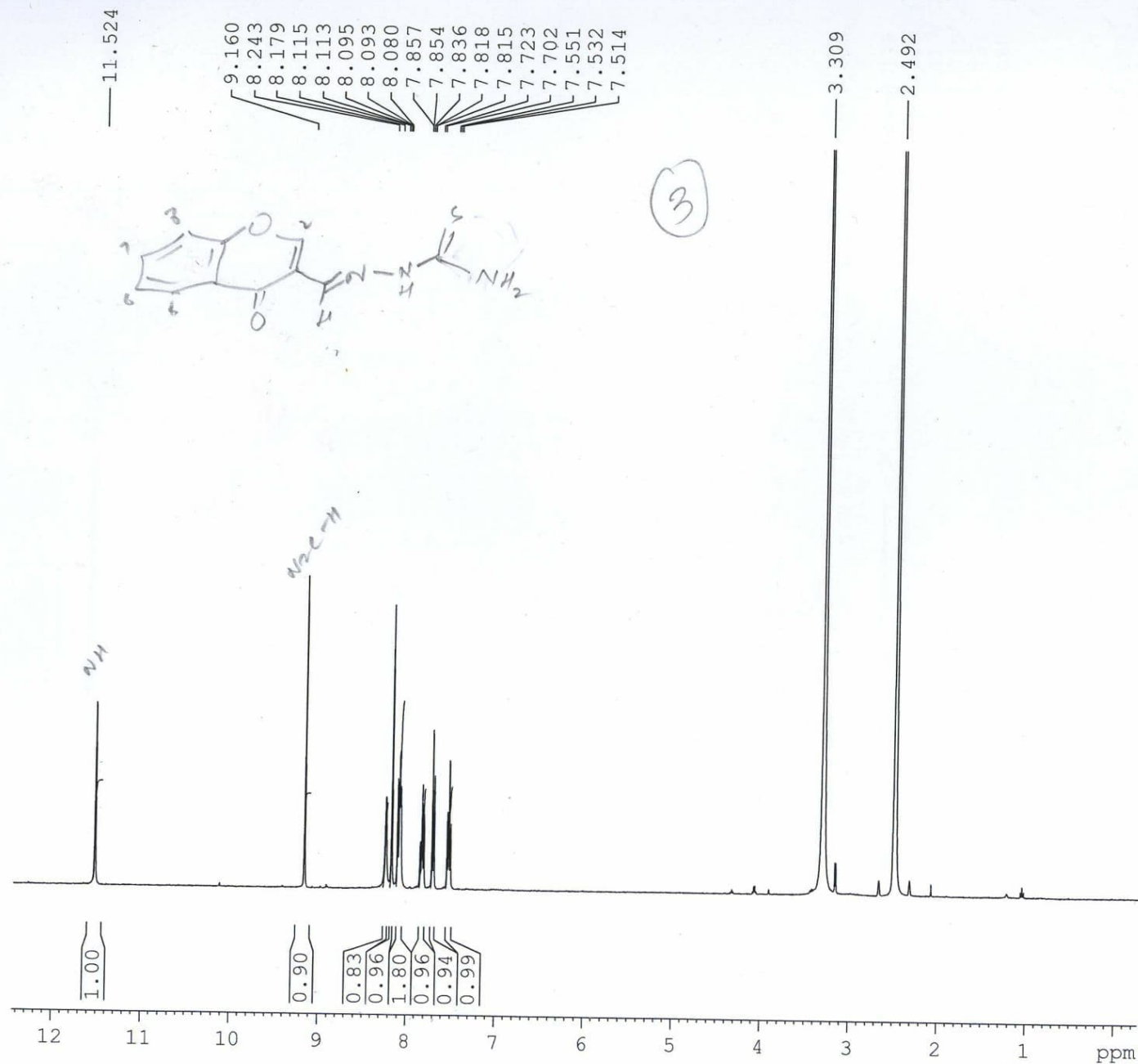
#Ions: 59



18
OU
UZMA/DR, KHALID/US-V-7/
ICCBS, U.O.K/

Compound 3

AVANCE 400
LAB NO 117



NAME nov07-14
EXPNO 6
PROCNO 1
Date 20141107
Time 9.15
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 362
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

Compound 4

File: US-V-8

Sample: UZMA SALAR /DR. KHALID

Instrument: JEOL JMS 600-H

Inlet: My Inlet

Date Run: 09-11-2014 (Time Run: 09:27:21)

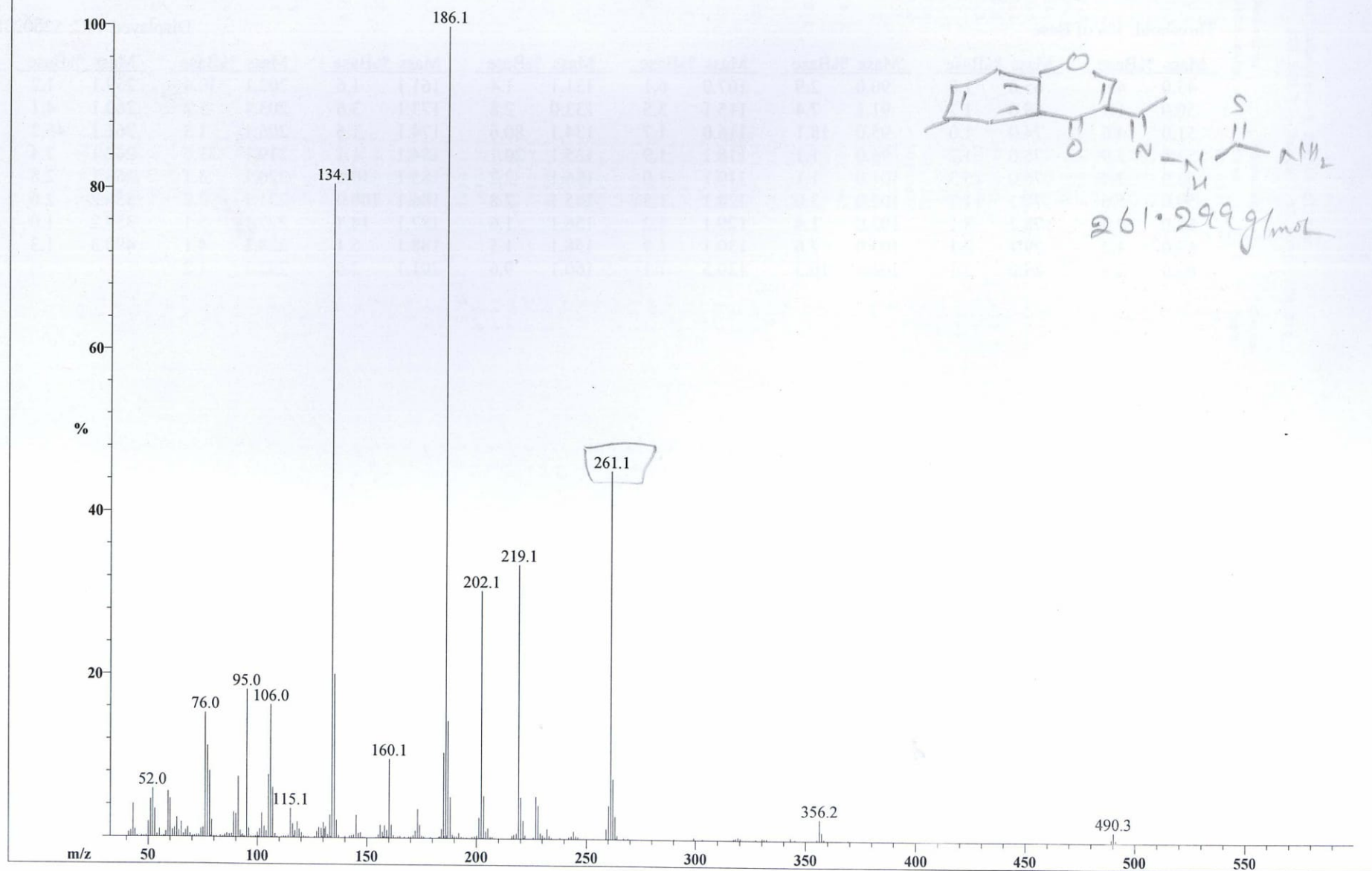
Ionization mode: EI+

Scan: 19

Base: m/z 186; 80.5%FS TIC: 5260238

R.T.: 1.6

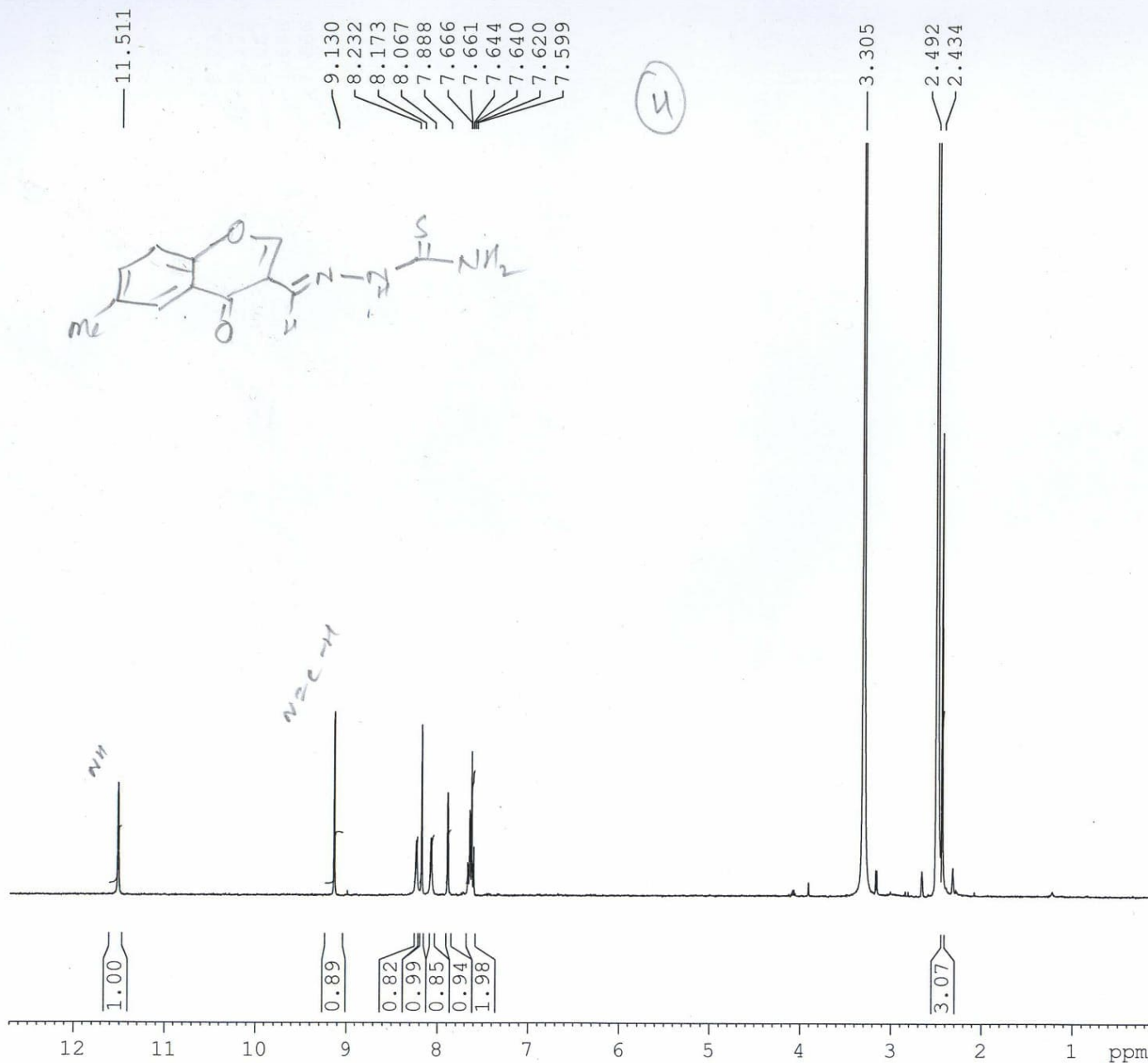
#Ions: 230



19
UZMA/DR, KHALID/US-V-8/
ICCBS, U.O.K/

Compound 4

AVANCE 400
LAB NO. 117



NAME nov07-14
EXPNO 7
PROCNO 1
Date_ 20141107
Time 9.24
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 362
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

File: US-IV-80
Sample: UZMA SALAR /DR. KHALID
Instrument: JEOL JMS 600-H
Inlet: My Inlet

Date Run: 09-10-2014 (Time Run: 15:30:30)

Compound 5

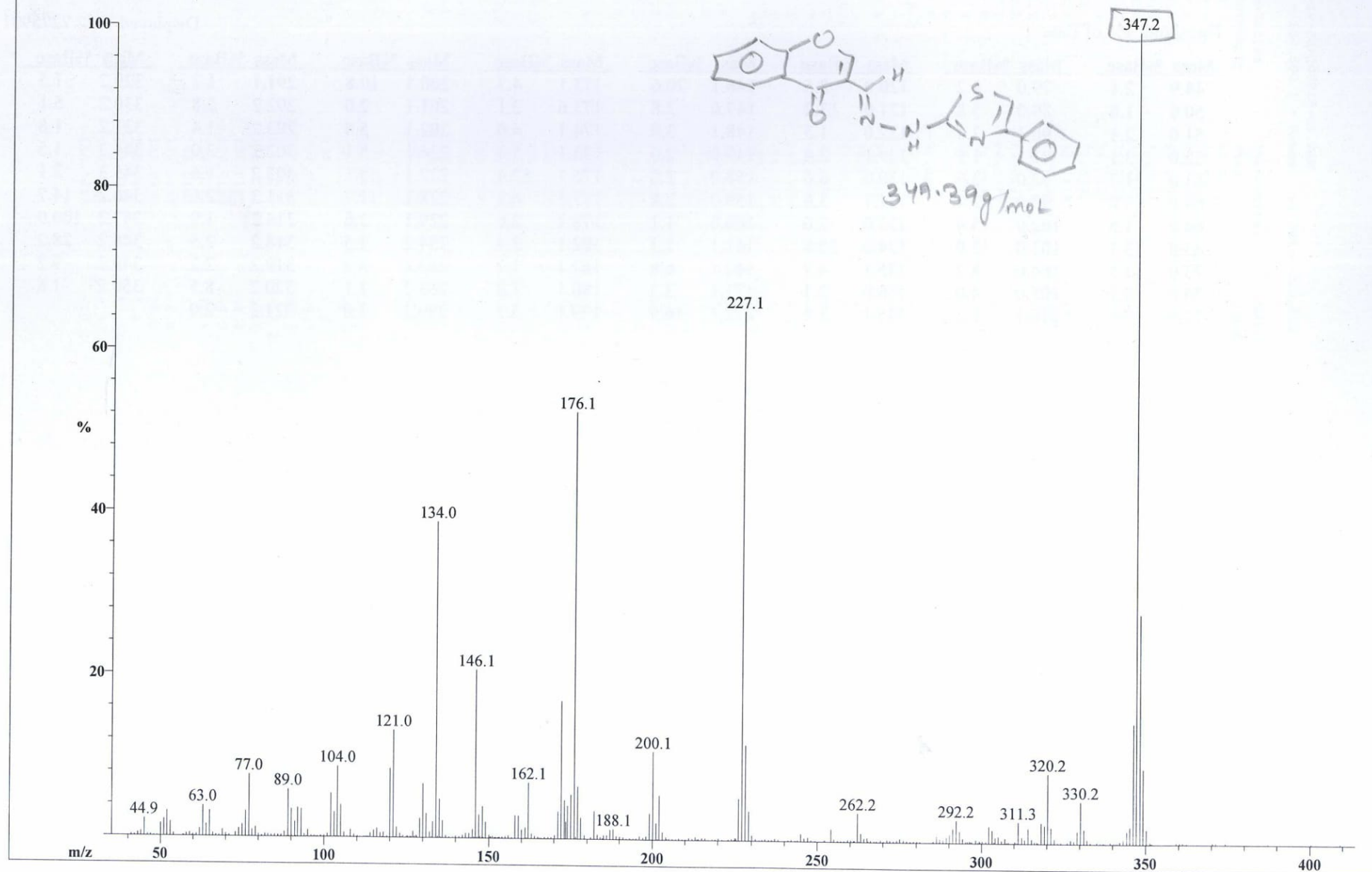
Ionization mode: EI+

Scan: 13

Base: m/z 347; 99.5%FS TIC: 7275991

R.T.: 1.07

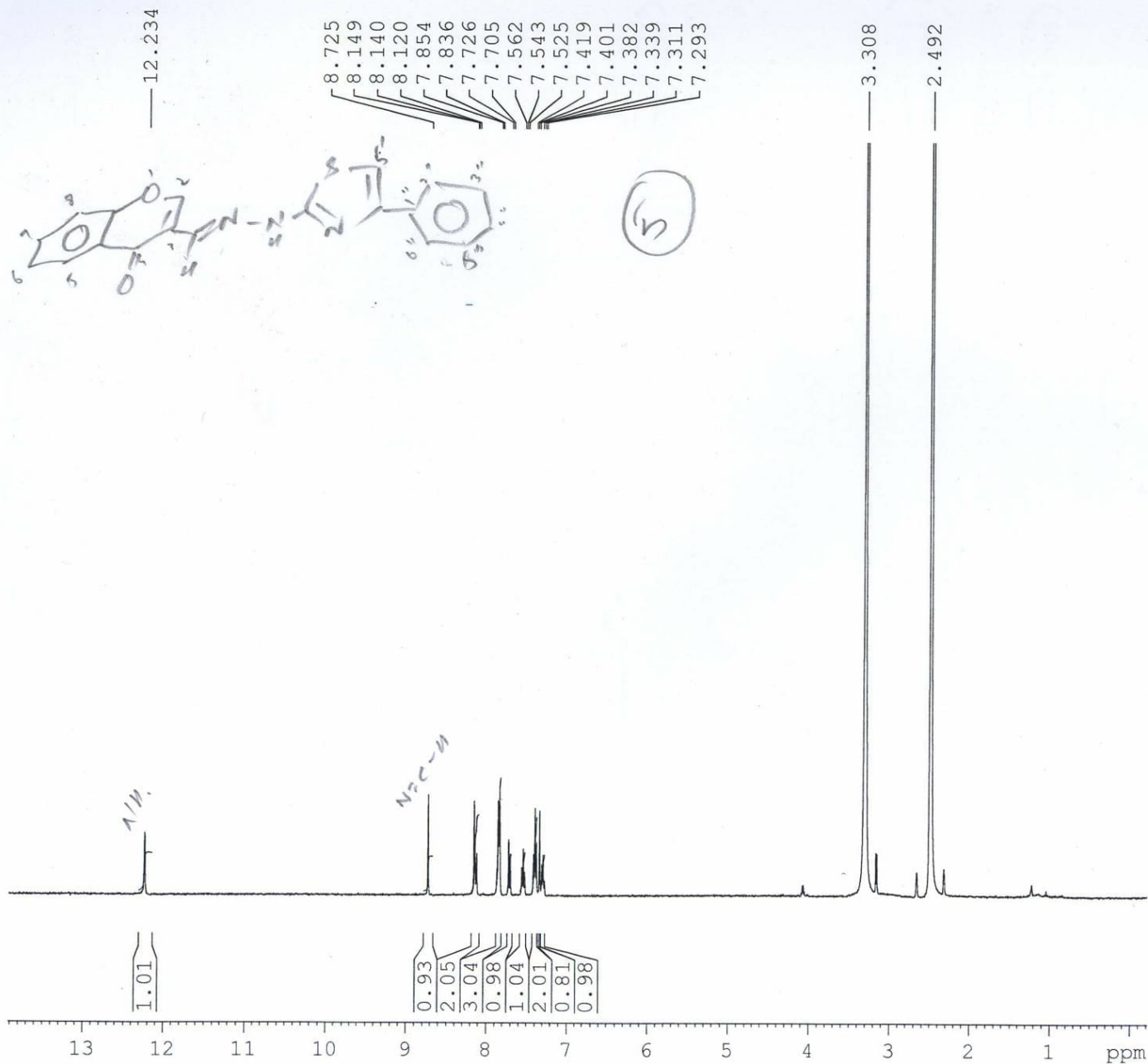
#Ions: 411



UZMA/DR, KHALID/US-IV-80/
ICCBS, U.O.K/

Compound 5

AVANCE 400
LAB NO 117



NAME mar02-15
EXPNO 10
PROCNO 1
Date_ 20150302
Time_ 10.37
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 362
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

File: US-IV-81
Sample: UZMA SALAR /DR. KHALID
Instrument: JEOL JMS 600-H
Inlet: My Inlet

Date Run: 09-10-2014 (Time Run: 12:30:27)

Compound 6

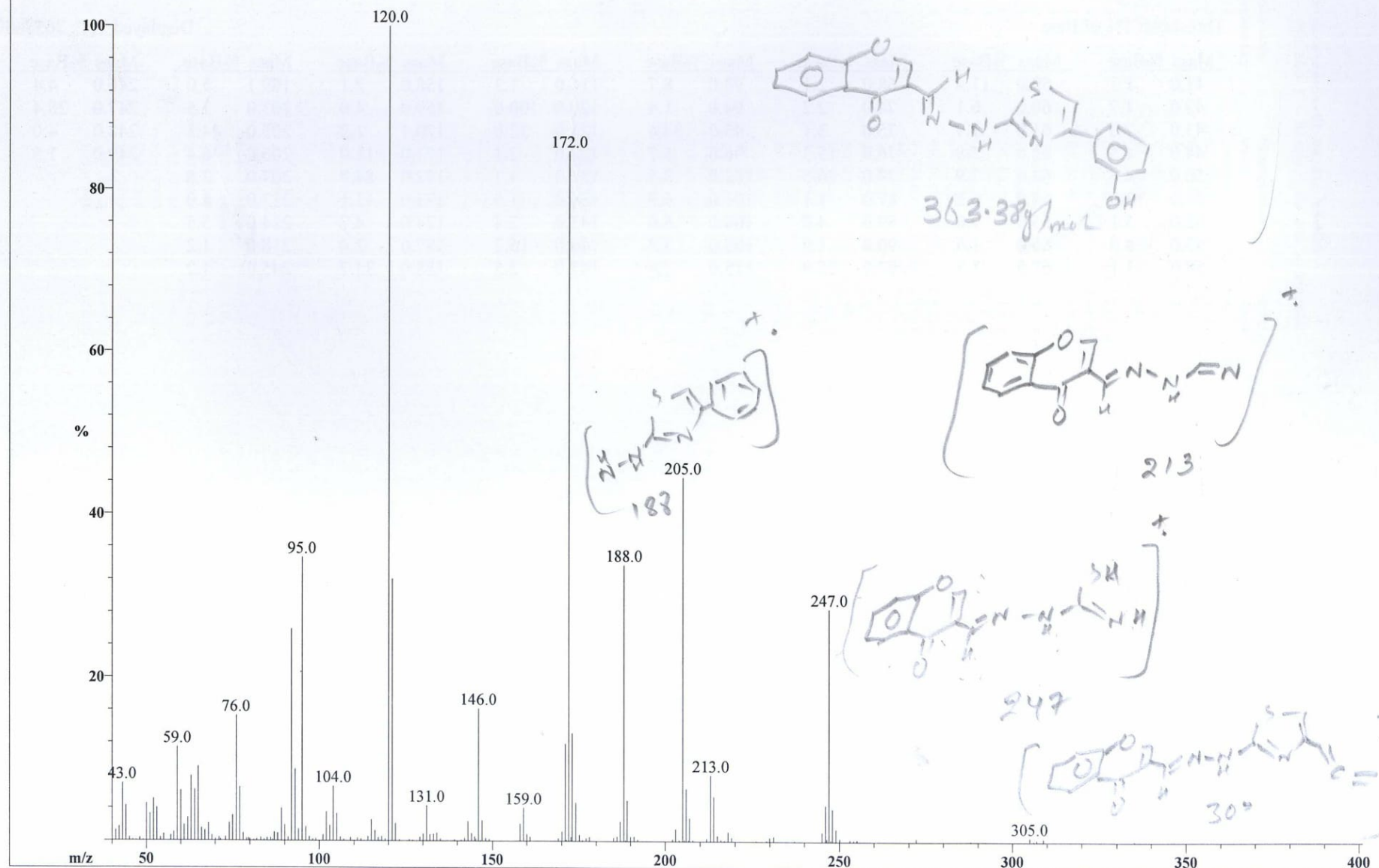
Ionization mode: EI+

Scan: 15

R.T.: 1.25

Base: m/z 120; 37.3%FS TIC: 2657680

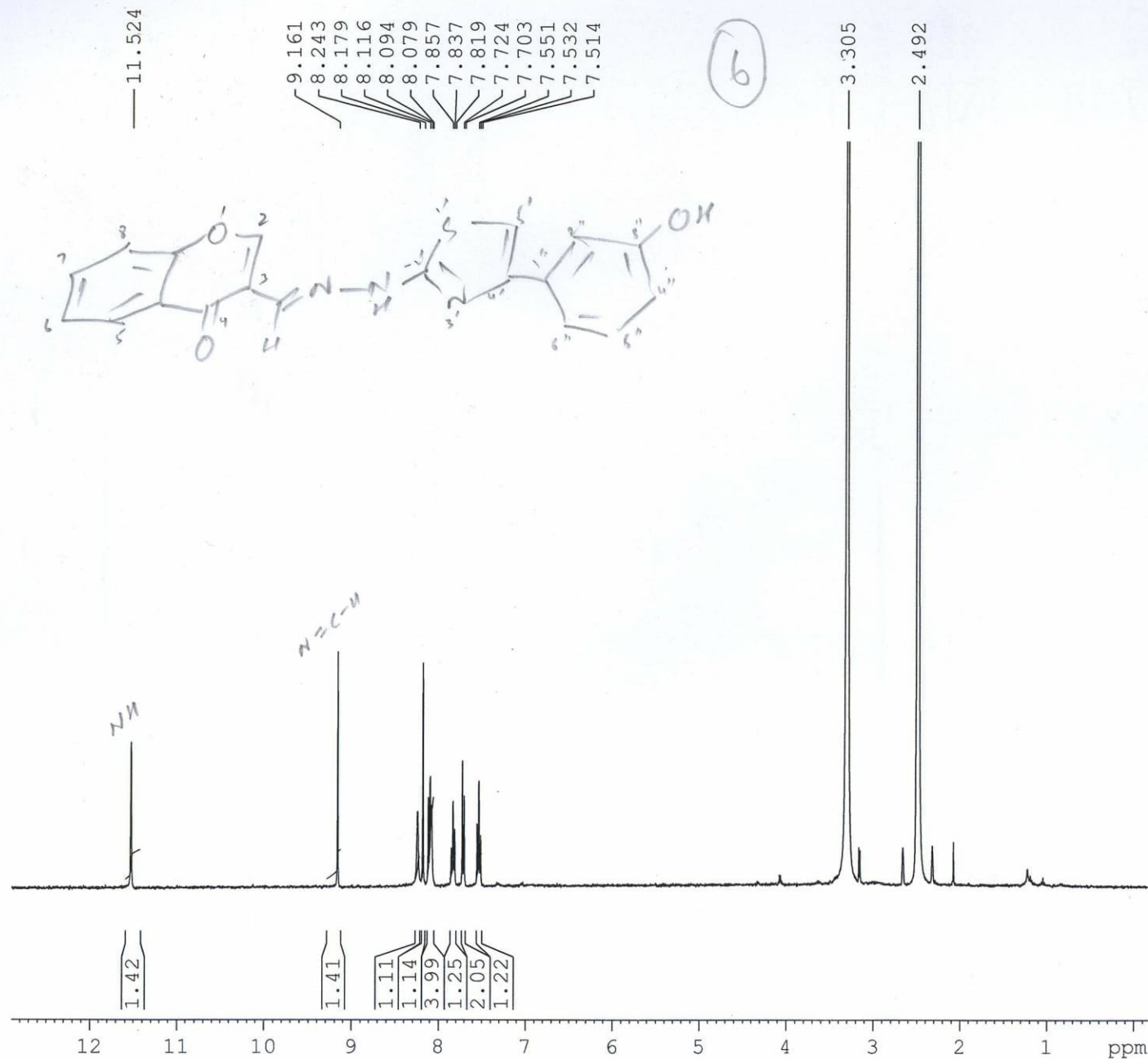
#Ions: 176



UZMA/DR, KHALID/US-IV-81/
ICCBS, U.O.K/

Compound 6

AVANCE 400
LAB NO 117



NAME nov11-14
EXPNO 3
PROCNO 1
Date_ 20141111
Time_ 8.51
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 362
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SF01 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

File: US-IV-82
Sample: UZMA SALAR /DR. KHALID
Instrument: JEOL JMS 600-H
Inlet: My Inlet

Date Run: 09-10-2014 (Time Run: 15:38:59)

Compound 7

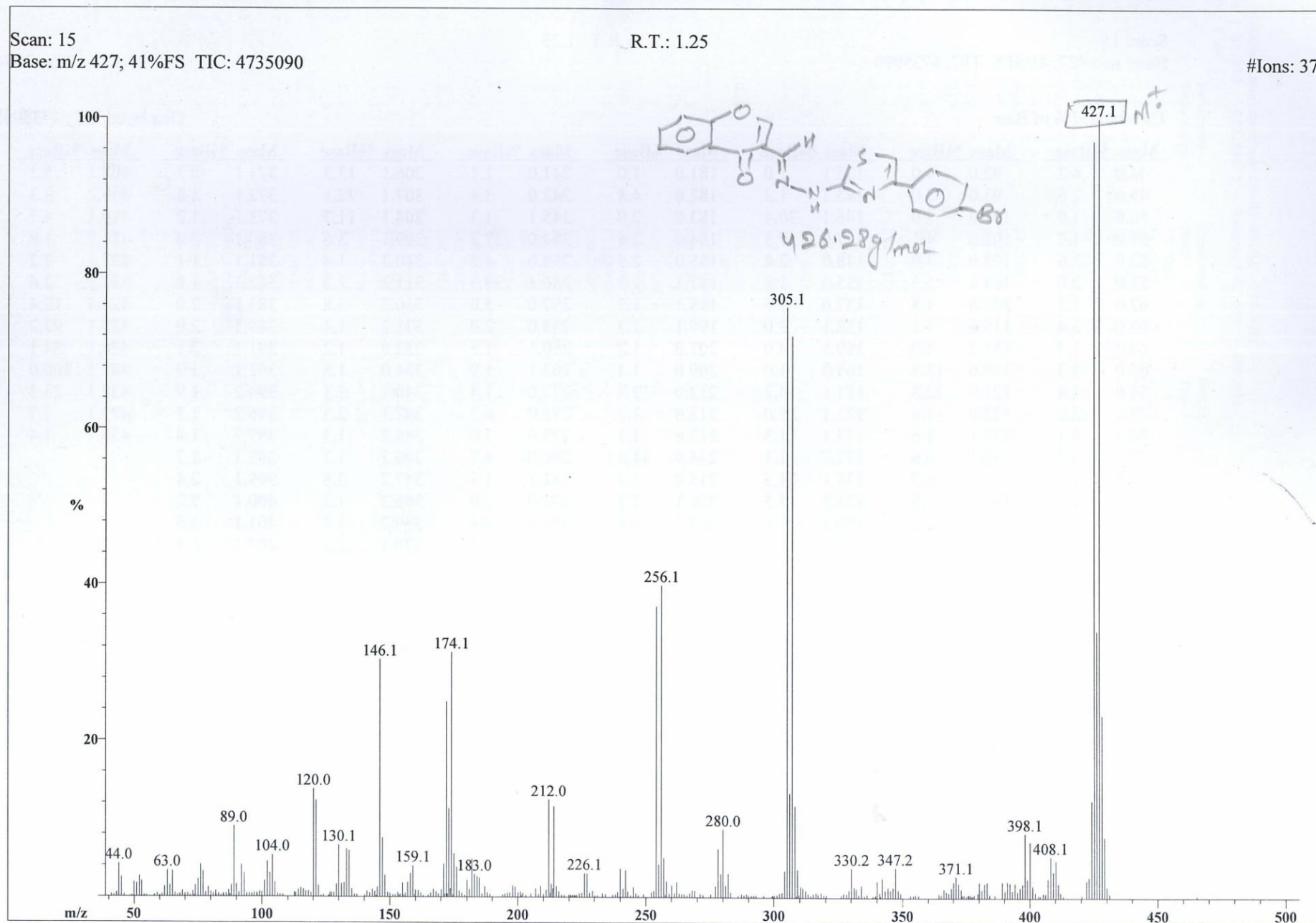
Ionization mode: EI+

Scan: 15

R.T.: 1.25

Base: m/z 427; 41%FS TIC: 4735090

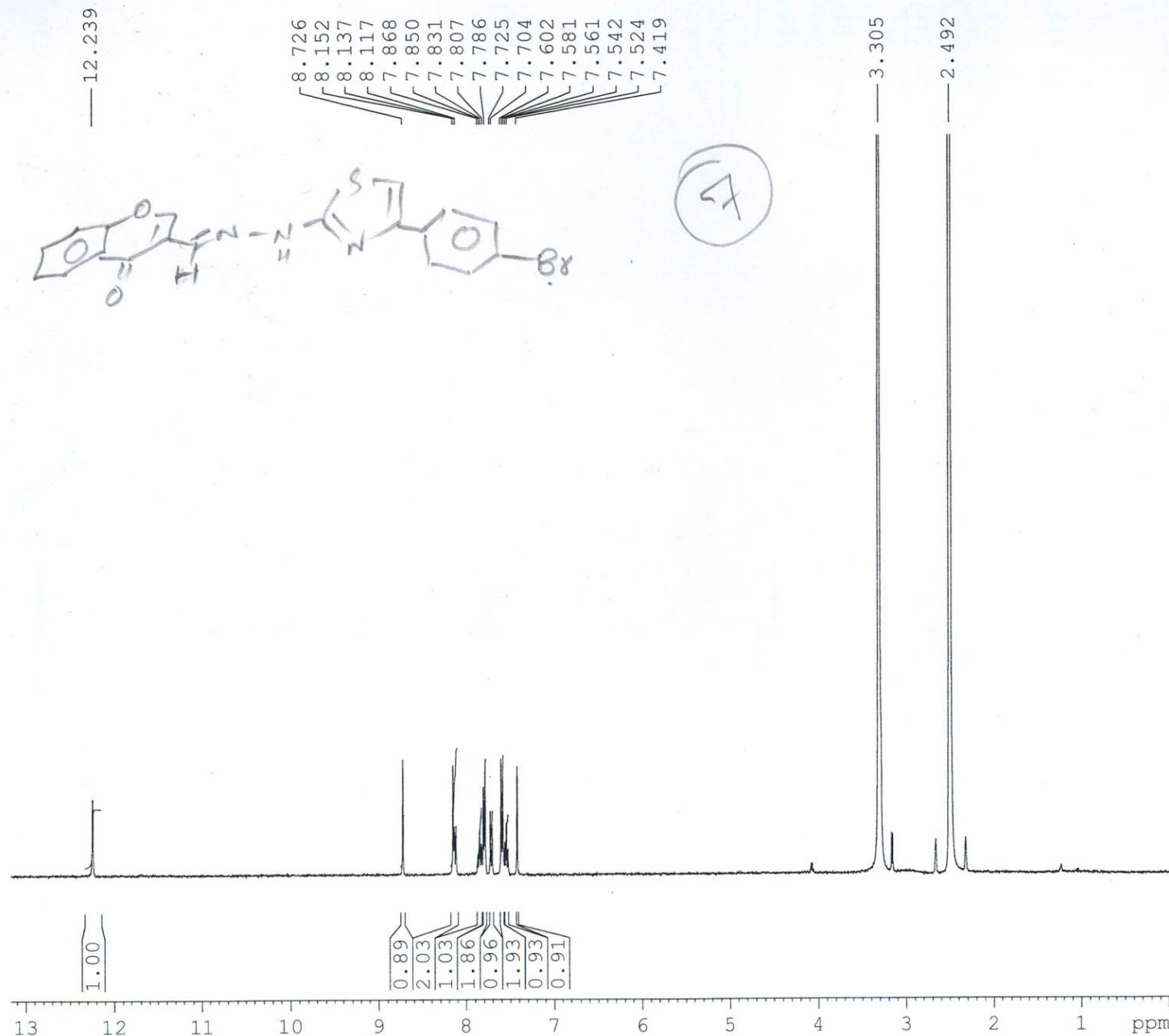
#Ions: 378



UZMA/DR, KHALID/US-IV-82/
ICCBS, U.O.K/

Compound 7

AVANCE 400
LAB NO 117



NAME mar03-15
EXPNO 8
PROCNO 1
Date 20150303
Time 9.40
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 362
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

File: US-IV-85
Sample: UZMA SALAR /DR. KHALID
Instrument: JEOL JMS 600-H
Inlet: My Inlet

Date Run: 09-10-2014 (Time Run: 12:36:27)

Compound 8

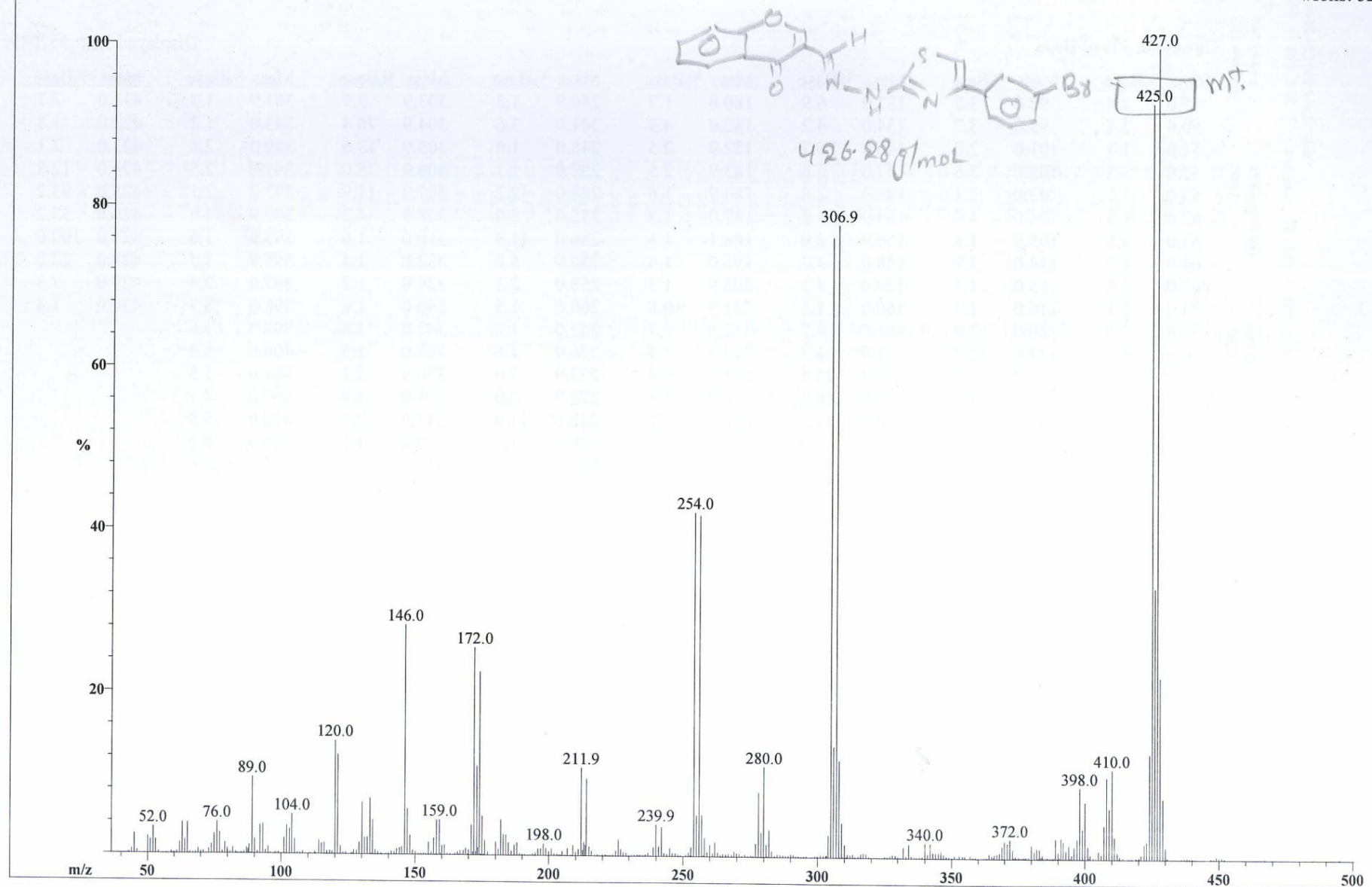
Ionization mode: EI+

Scan: 16

Base: m/z 427; 84.7%FS TIC: 9570496

R.T.: 1.33

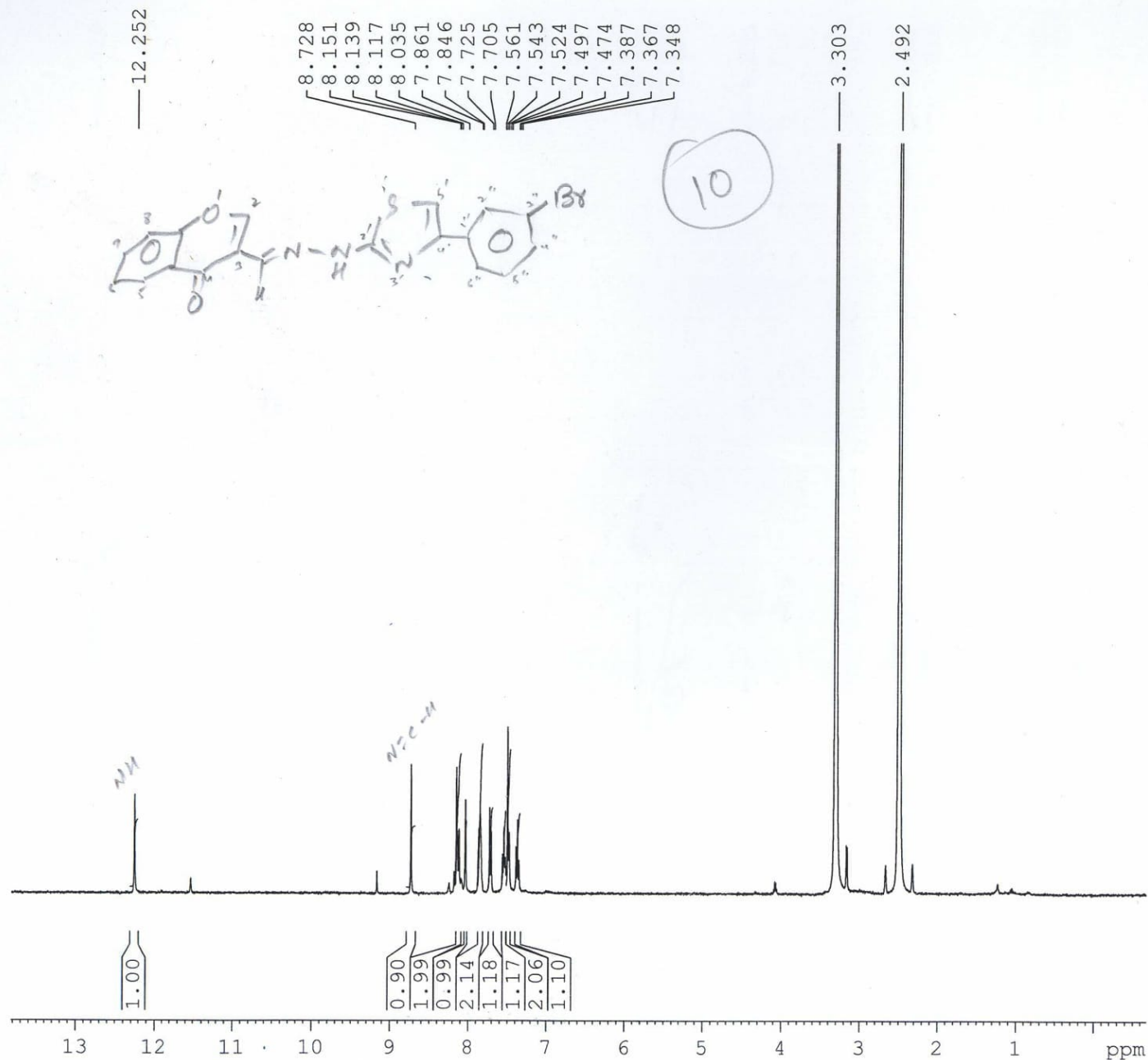
#Ions: 527



UZMA/DR, KHALID/US-IV-85/
ICCBS, U.O.K/

Compound 8

AVANCE 400
LAB NO 117



NAME jan30-15
EXPNO 6
PROCNO 1
Date_ 20150130
Time_ 9.01
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 362
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

File: US-IV-83
Sample: UZMA SALAR /DR. KHALID
Instrument: JEOL JMS 600-H
Inlet: My Inlet

Date Run: 09-10-2014 (Time Run: 12:11:36)

Compound 9

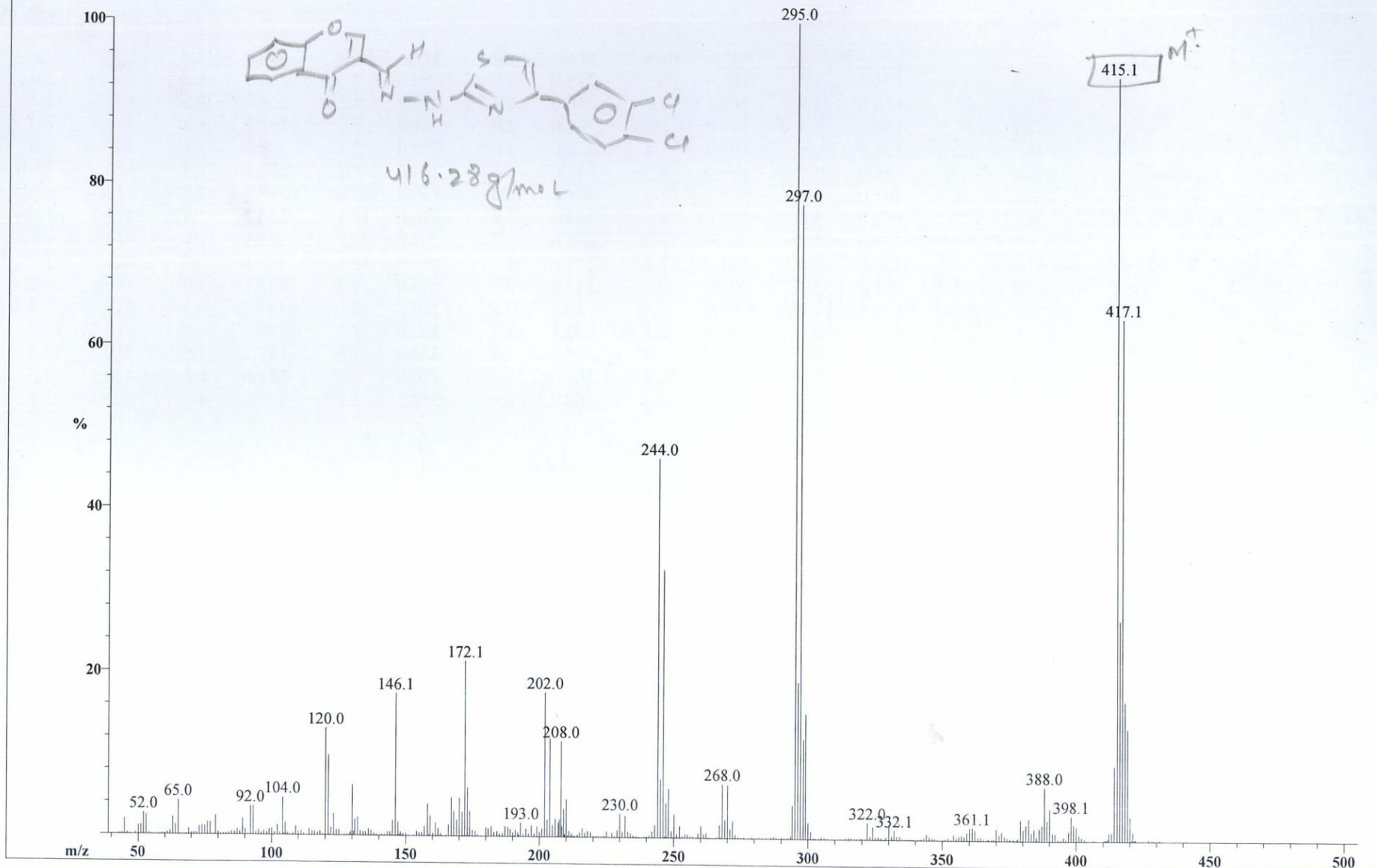
Ionization mode: EI+

Scan: 25

R.T.: 2.13

Base: m/z 295; 99.4%FS TIC: 10023056

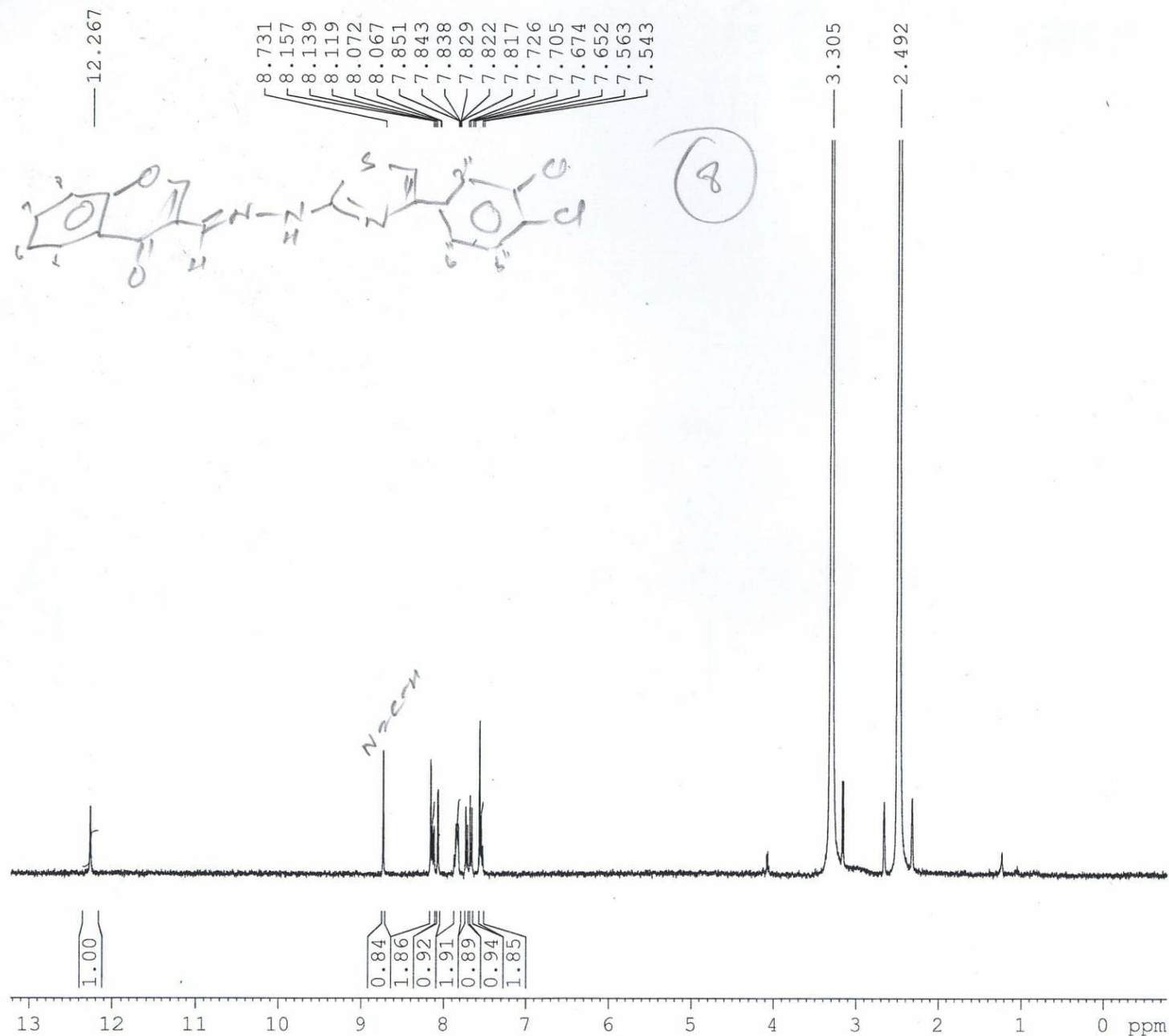
#Ions: 488



UZMA/DR, KHALID/US-IV-83/
ICCBS, U.O.K/

Compound 9

AVANCE 400
LAB NO 117



NAME mar03-15
EXPNO 9
PROCNO 1
Date_ 20150303
Time_ 9.48
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 362
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

File: US-IV-90
Sample: UZMA SALAR /DR. KHALID
Instrument: JEOL JMS 600-H
Inlet: My Inlet

Date Run: 09-10-2014 (Time Run: 12:56:08)

Compound 10

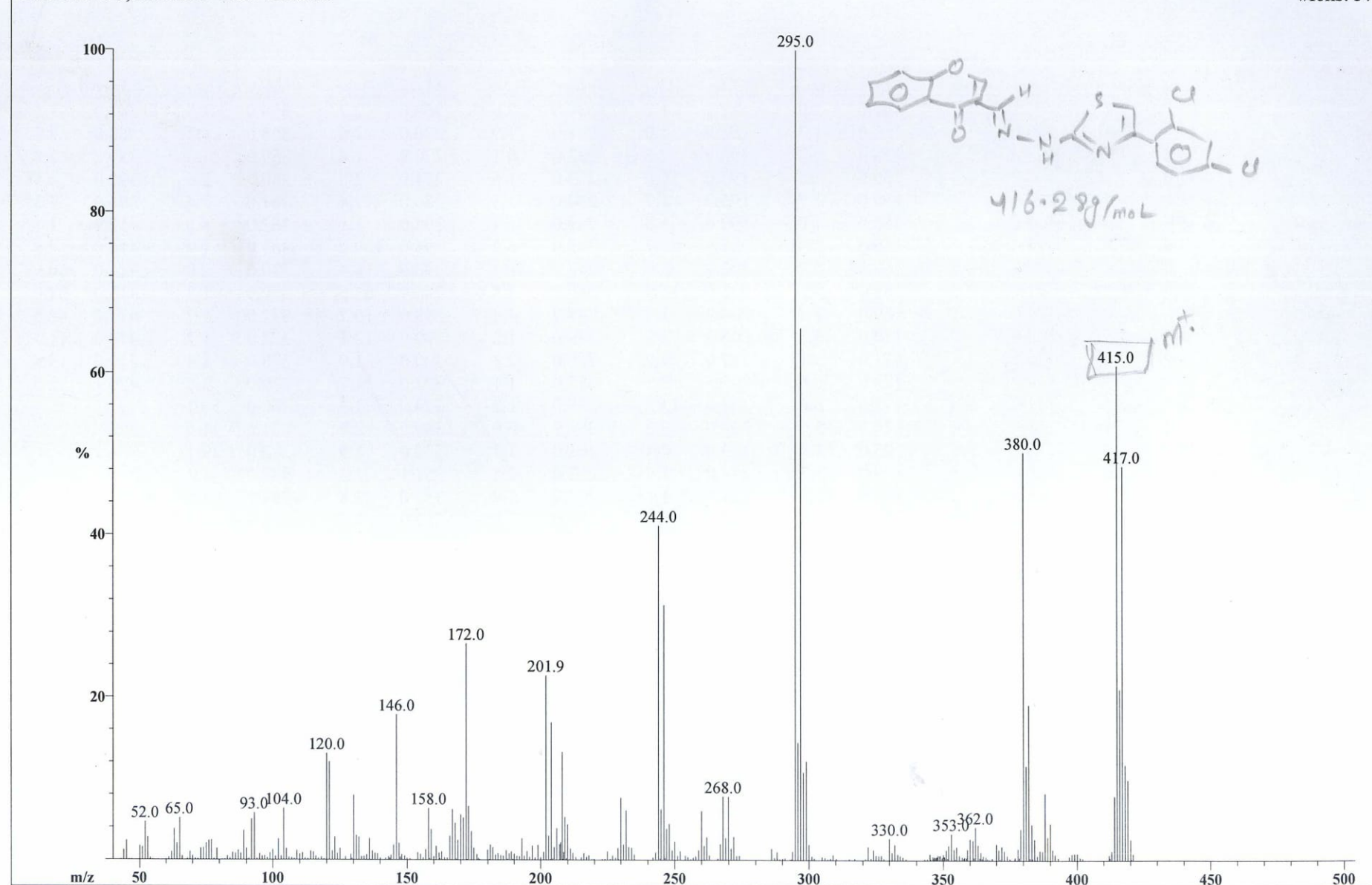
Ionization mode: EI+

Scan: 54

Base: m/z 295; 38.4%FS TIC: 4267920

R.T.: 4.72

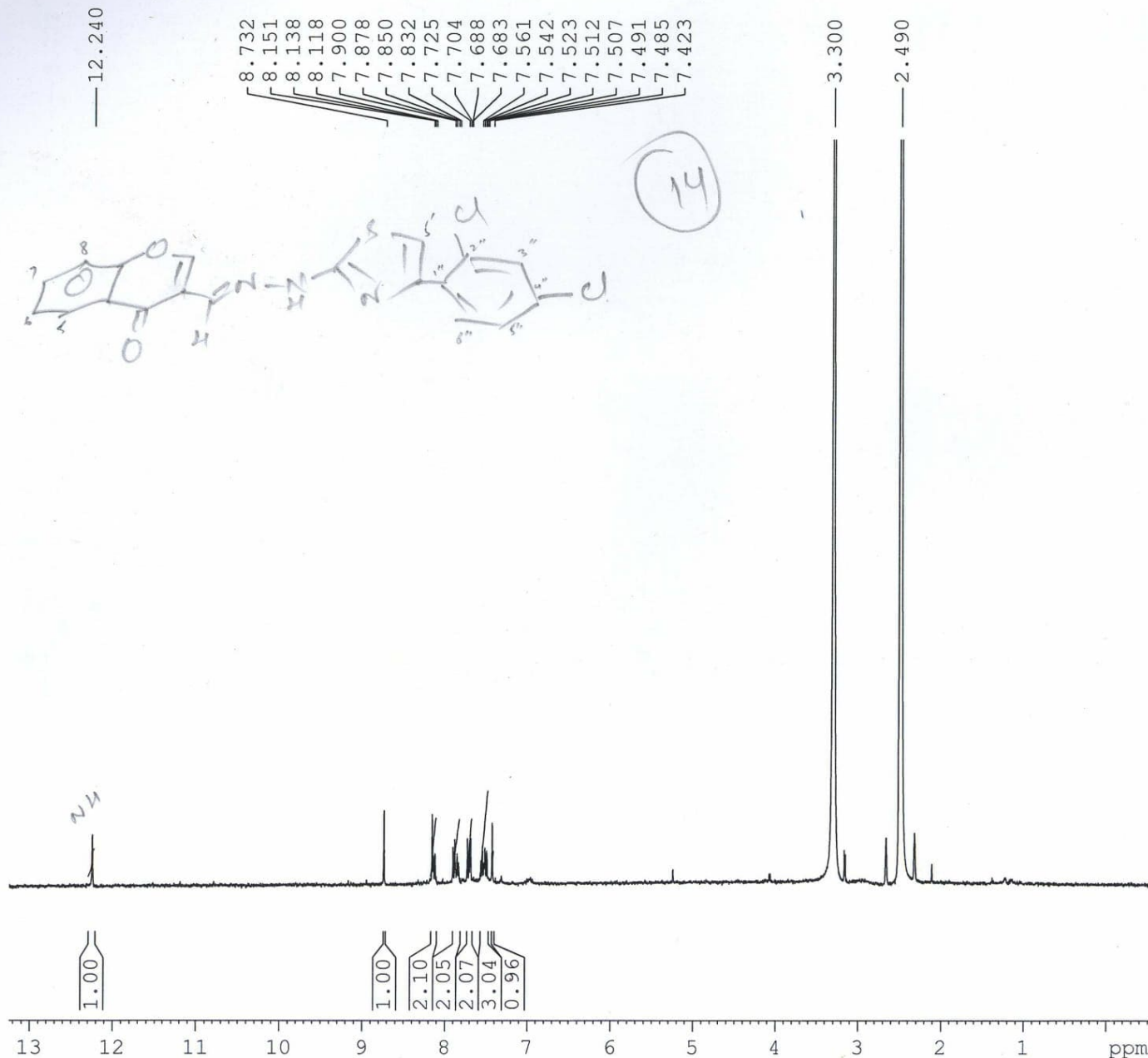
#Ions: 373



UZMA/DR, KHALID/US-IV.40/
ICCBS, U.O.K/

Compound 10

AVANCE 400
LAB NO 117



NAME nov17-14
EXPNO 7
PROCNO 1
Date 20141117
Time 8.19
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 362
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 1.50000000 sec
TD0 1

===== CHANNEL f1 =====

NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

File: US-IV-91
Sample: UZMA SALAR /DR. KHALID
Instrument: JEOL JMS 600-H
Inlet: My Inlet

Date Run: 09-10-2014 (Time Run: 14:25:44)

Compound 11

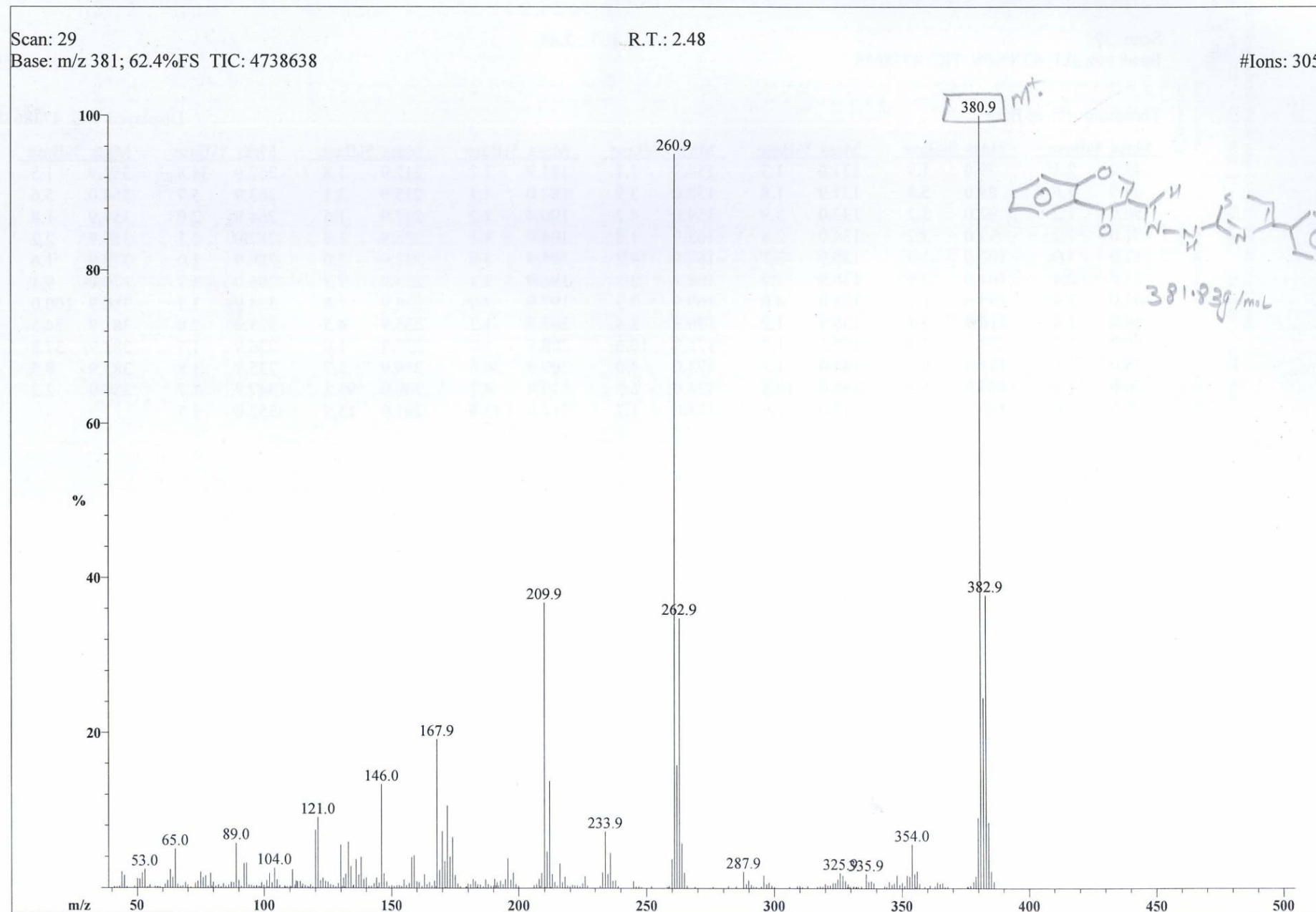
Ionization mode: EI+

Scan: 29

R.T.: 2.48

Base: m/z 381; 62.4%FS TIC: 4738638

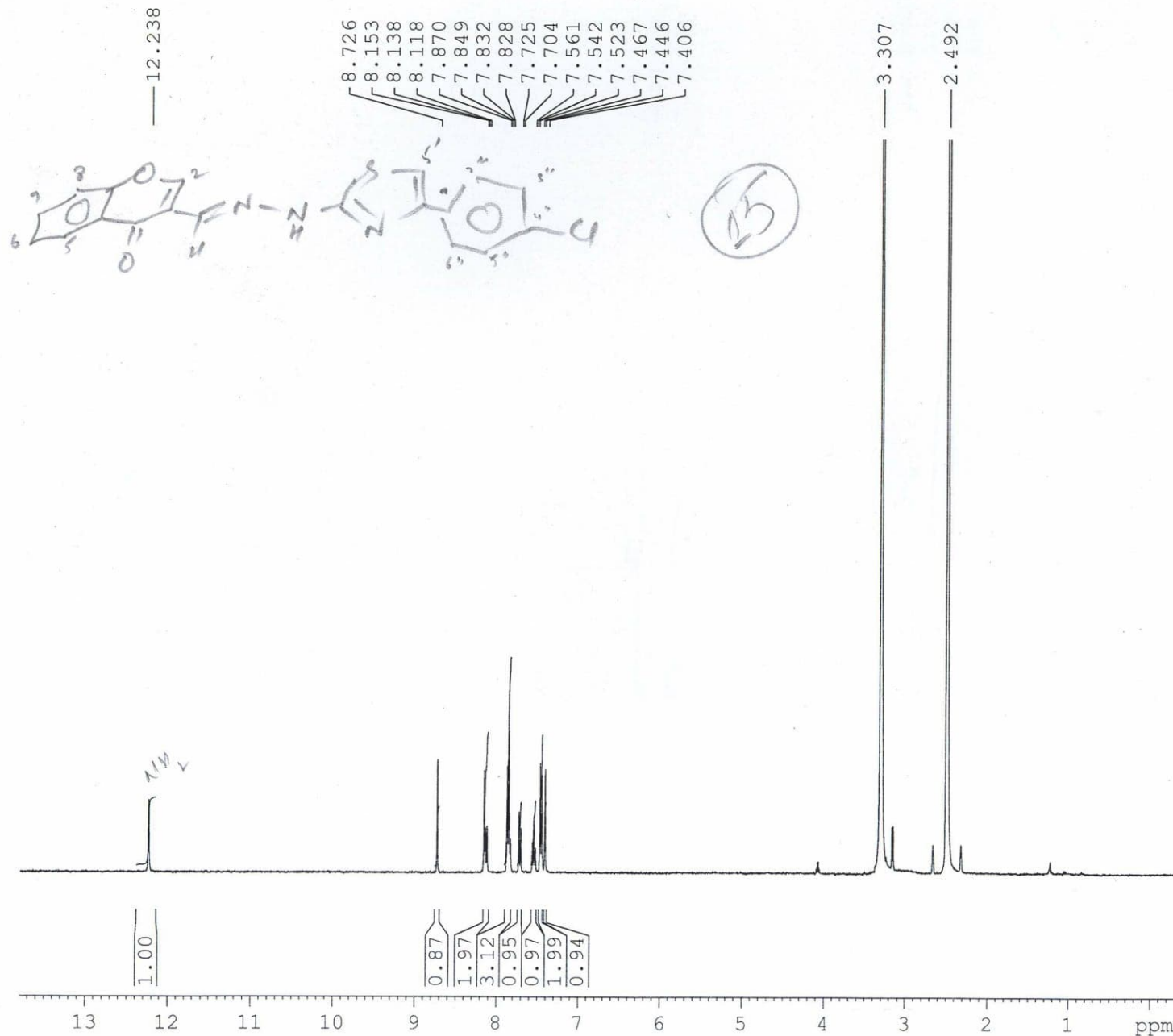
#Ions: 305



UZMA/DR, KHALID/US-IV-91/
ICCBS, U.O.K/

Compound 11

AVANCE 400
LAB NO 117



NAME mar03-15
EXPNO 12
PROCNO 1
Date_ 20150303
Time_ 10.14
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 362
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

File: US-IV-84
Sample: UZMA SALAR /DR. KHALID
Instrument: JEOL JMS 600-H
Inlet: My Inlet

Date Run: 09-10-2014 (Time Run: 15:47:41)

Compound 12

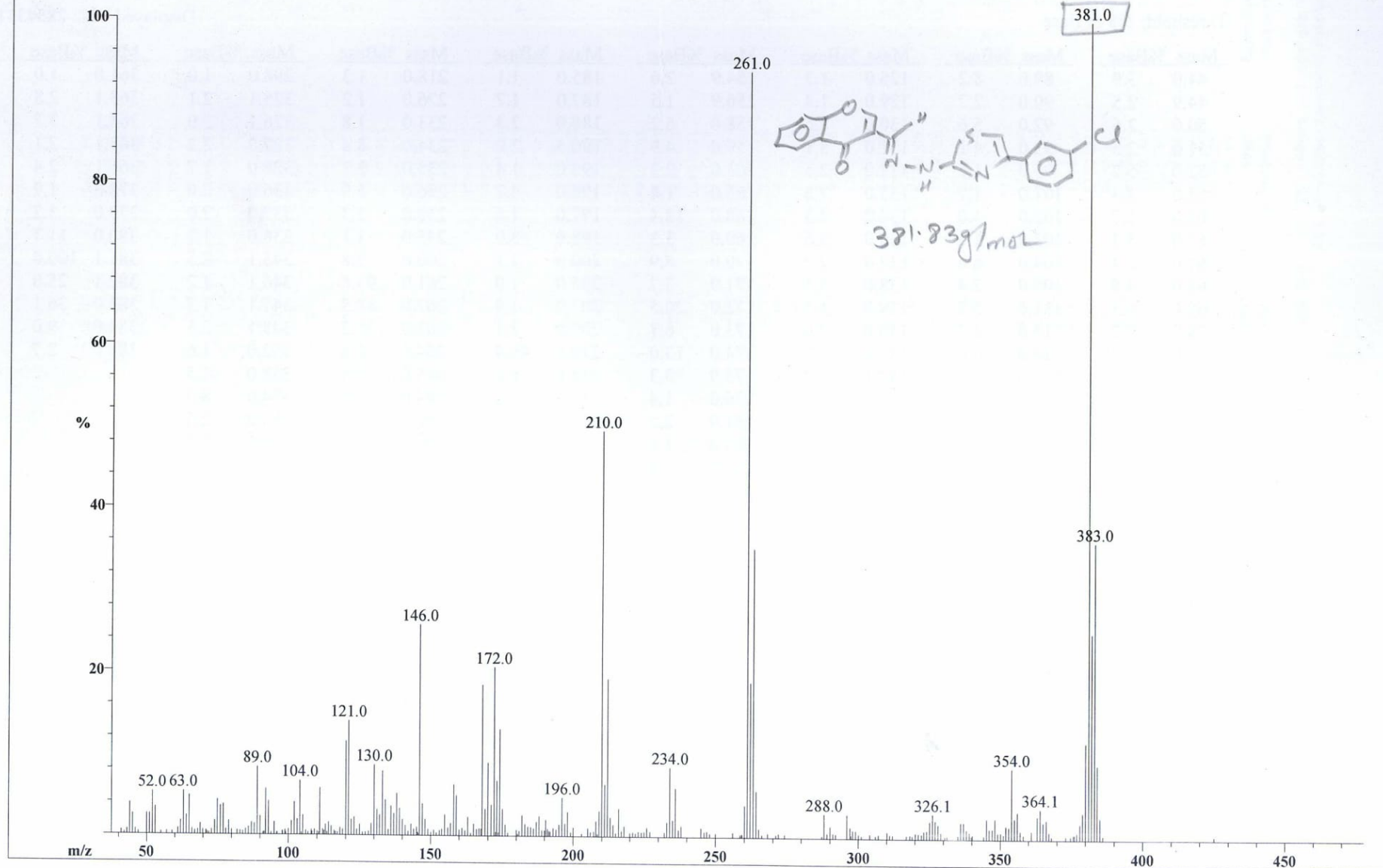
Ionization mode: EI+

Scan: 20

Base: m/z 381; 28.8%FS TIC: 2854331

R.T.: 1.7

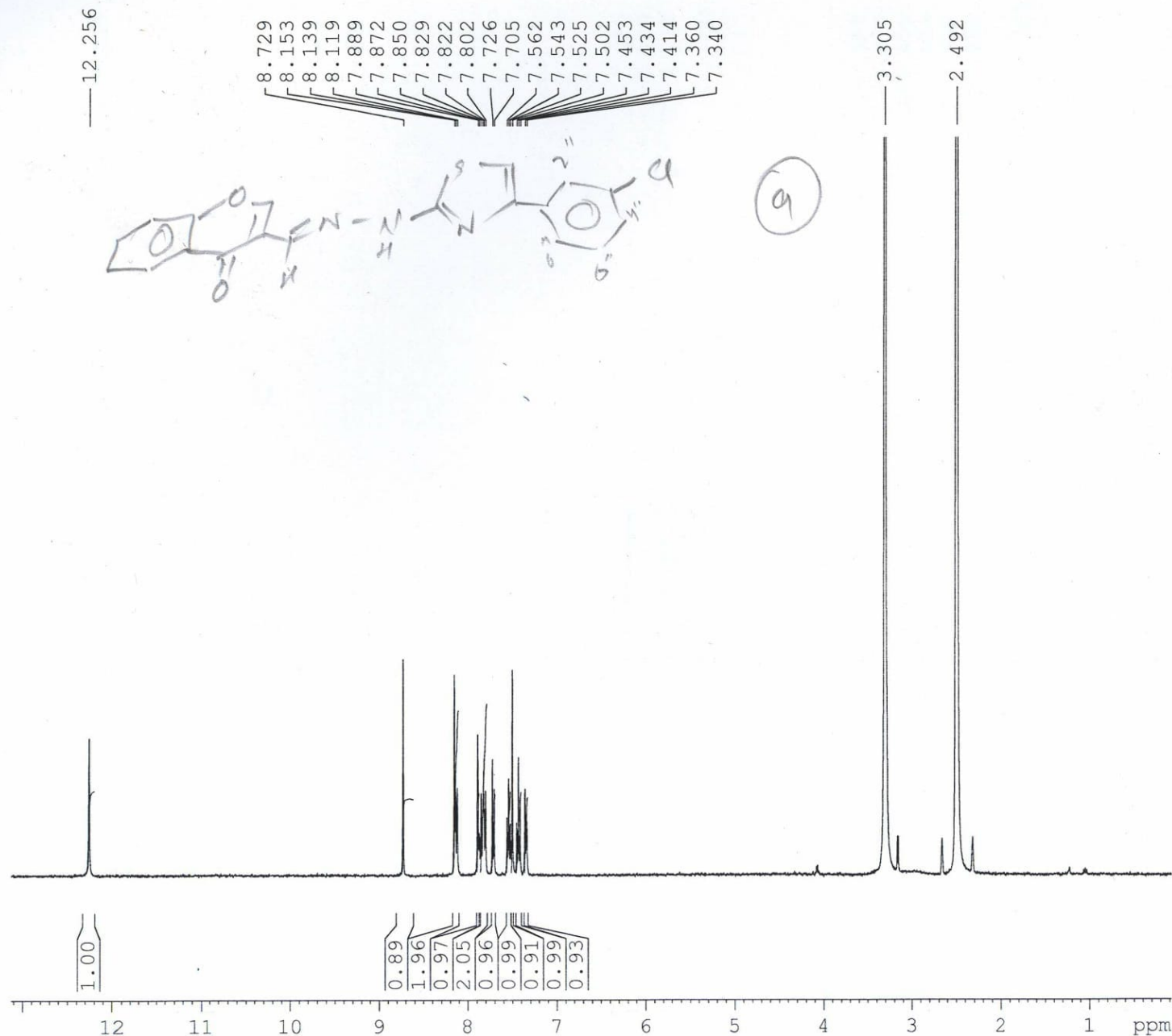
#Ions: 303



UZMA/DR, KHALID/US-IV-84/
ICCBS, U.O.K/

Compound 12

AVANCE 400
LAB NO 117



NAME mar03-15
EXPNO 10
PROCNO 1
Date_ 20150303
Time_ 9.57
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 362
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

File: US-IV-86

Sample: UZMA SALAR /DR. KHALID

Instrument: JEOL JMS 600-H

Inlet: My Inlet

Date Run: 09-10-2014 (Time Run: 15:55:31)

Compound 13

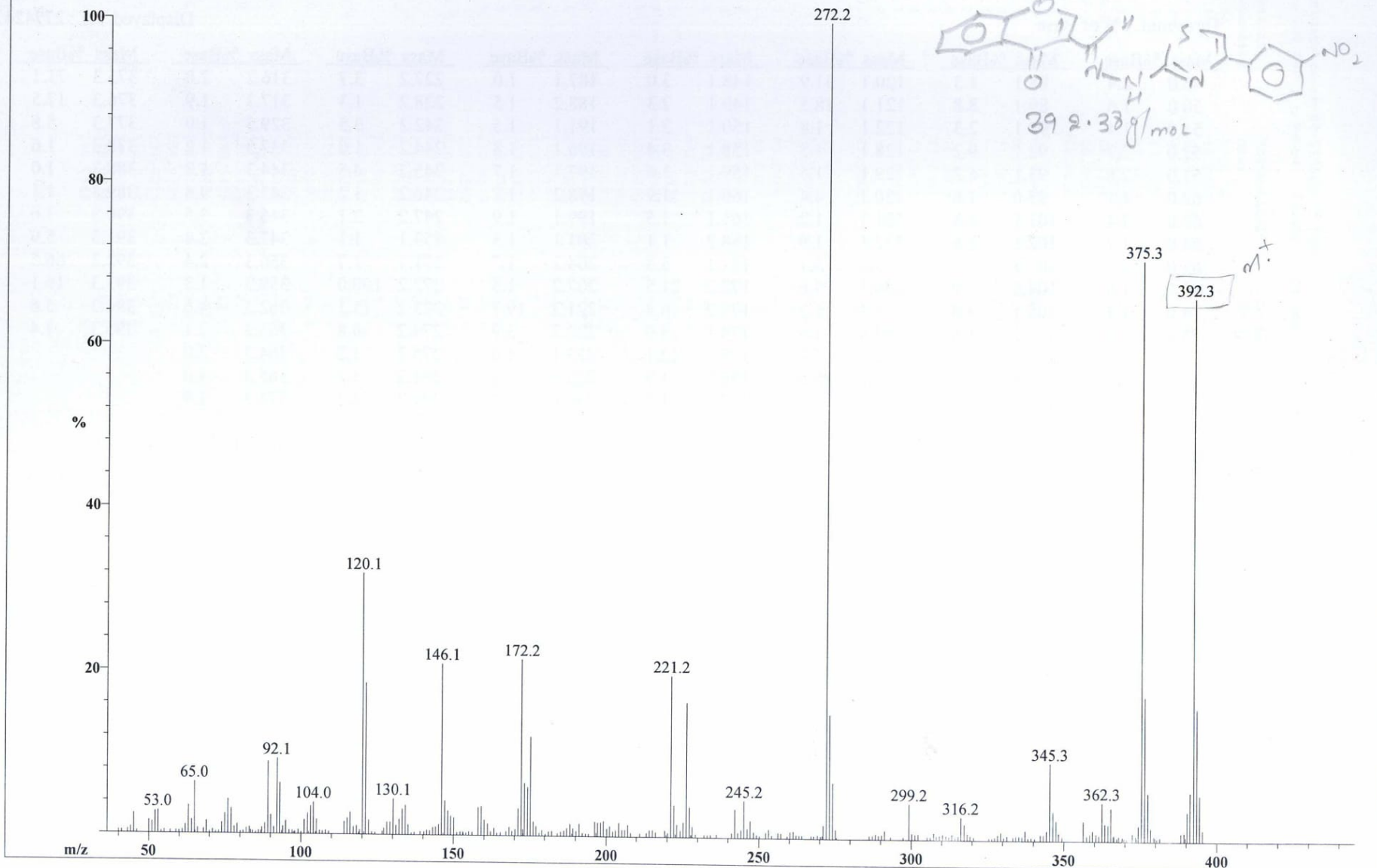
Ionization mode: EI+

Scan: 17

R.T.: 1.43

Base: m/z 272; 33%FS TIC: 2774247

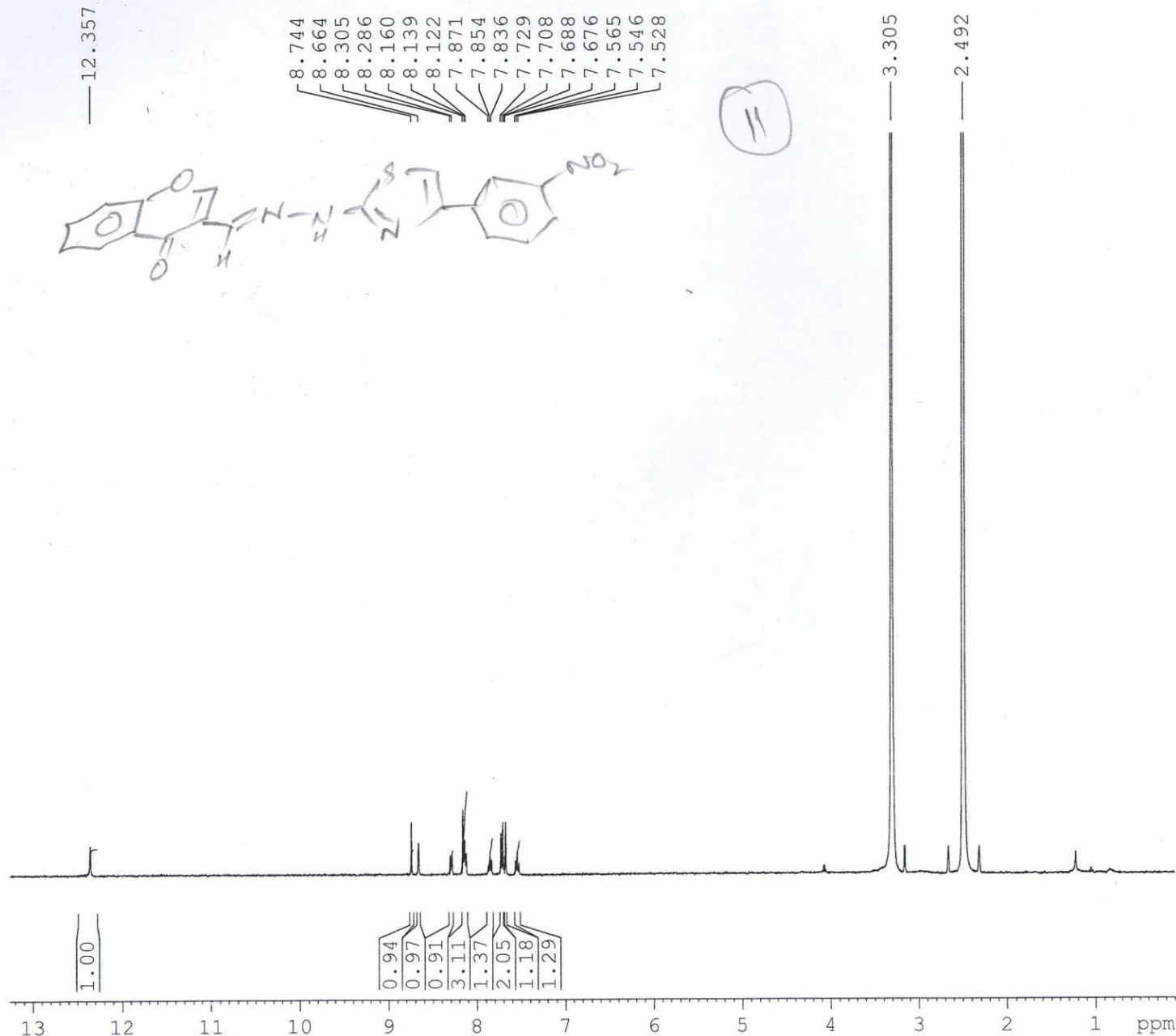
#Ions: 315



UZMA/DR, KHALID/US-IV-86/
ICCBS, U.O.K/

Compound 13

AVANCE 400
LAB NO 117



NAME mar03-15
EXPNO 11
PROCNO 1
Date 20150303
Time 10.05
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 362
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

File: US-IV-88
Sample: UZMA SALAR /DR. KHALID
Instrument: JEOL JMS 600-H
Inlet: My Inlet

Date Run: 09-10-2014 (Time Run: 16:00:56)

Compound 14

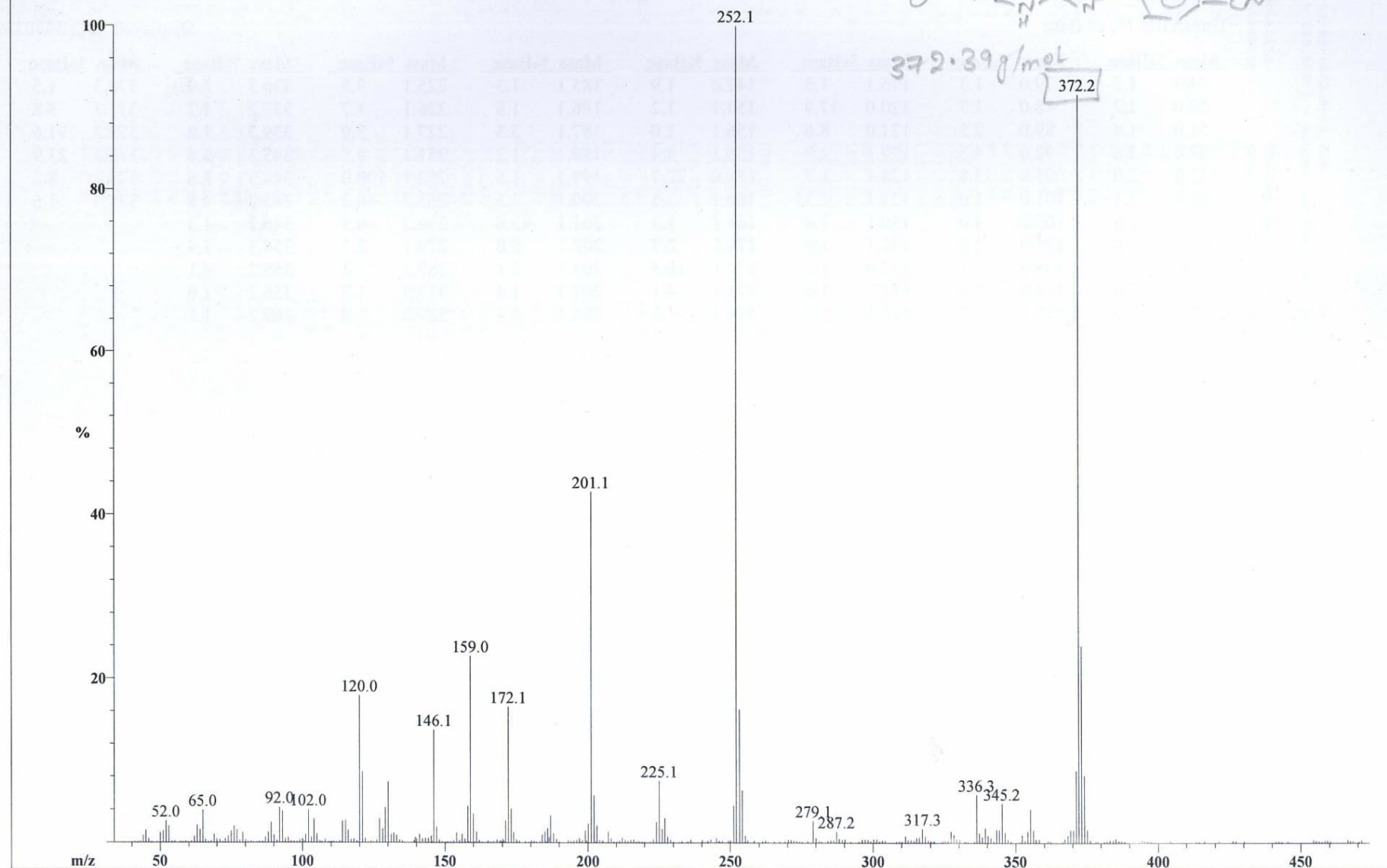
Ionization mode: EI+

Scan: 20

R.T.: 1.7

Base: m/z 252; 82.2%FS TIC: 5460339

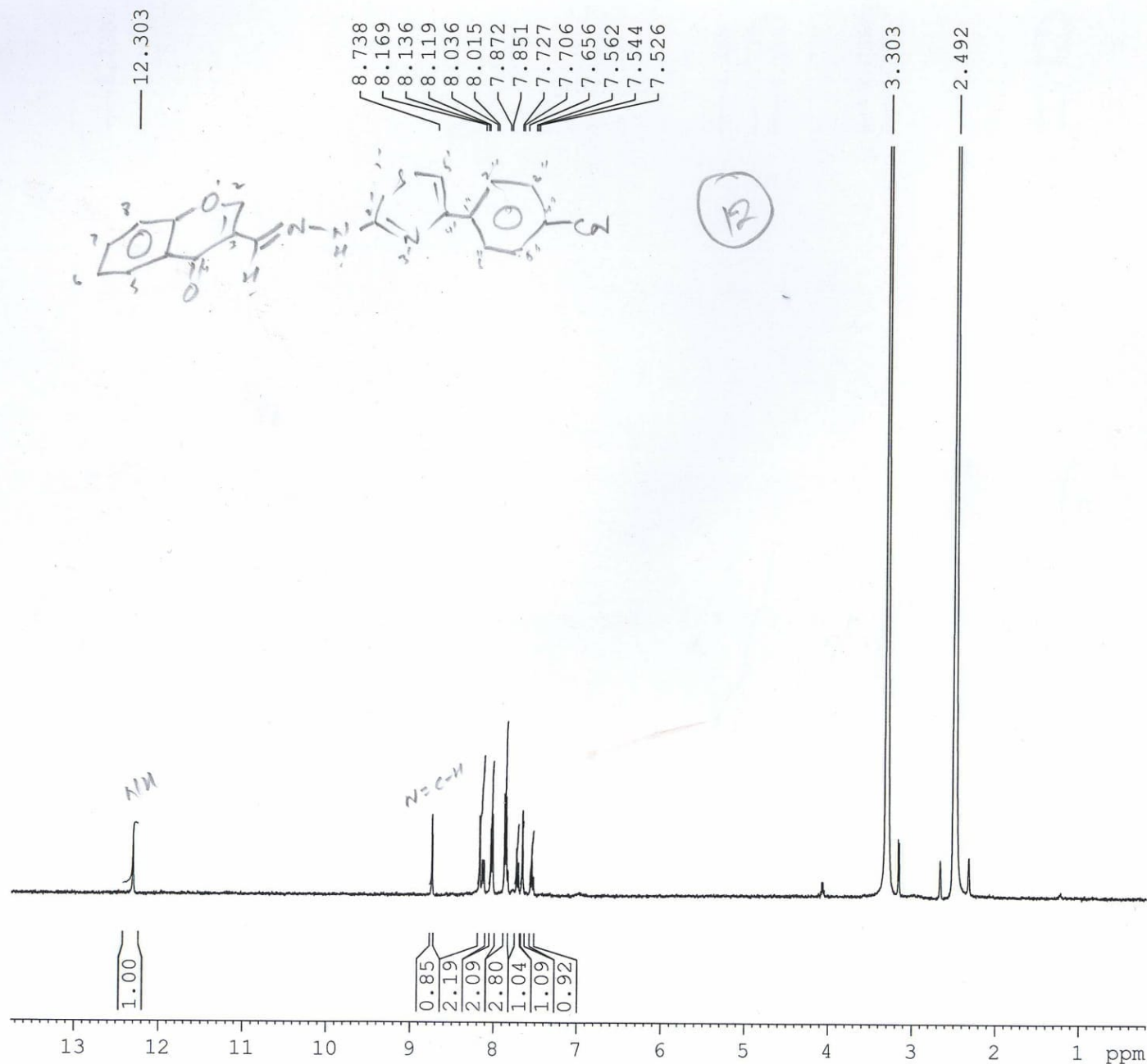
#Ions: 375



UZMA/DR, KHALID/US-IV-88/
ICCBS, U.O.K/

Compound 14

AVANCE 400
LAB NO 117



NAME jan27-15
EXPNO 10
PROCNO 1
Date_ 20150127
Time_ 10.00
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 362
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 1.50000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

File: US-IV-89

Sample: UZMA SALAR /DR. KHALID

Instrument: JEOL JMS 600-H

Inlet: My Inlet

Date Run: 09-10-2014 (Time Run: 12:49:45)

Compound 15

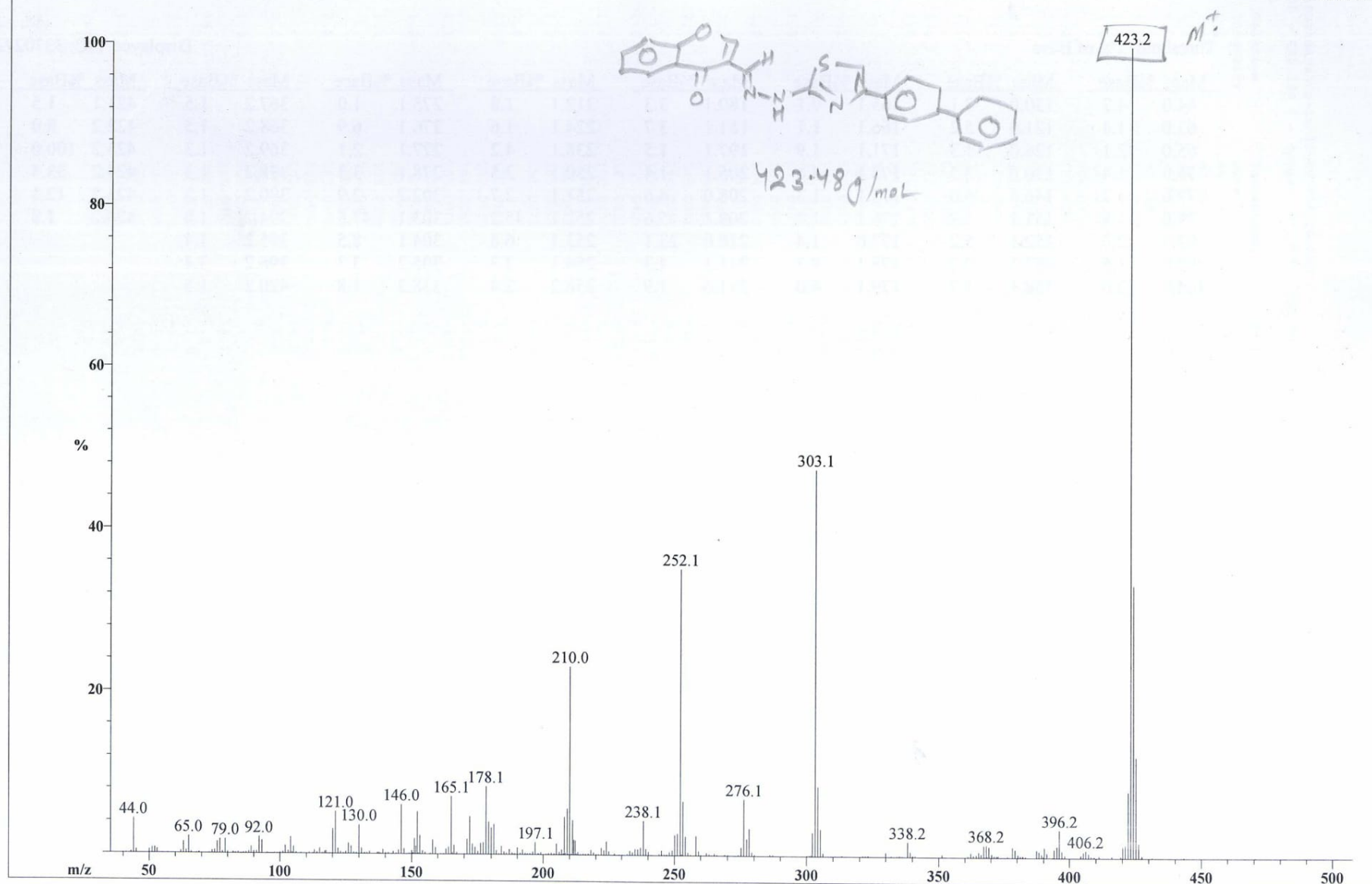
Ionization mode: EI+

Scan: 21

Base: m/z 423; 63.2%FS TIC: 3370272

R.T.: 1.78

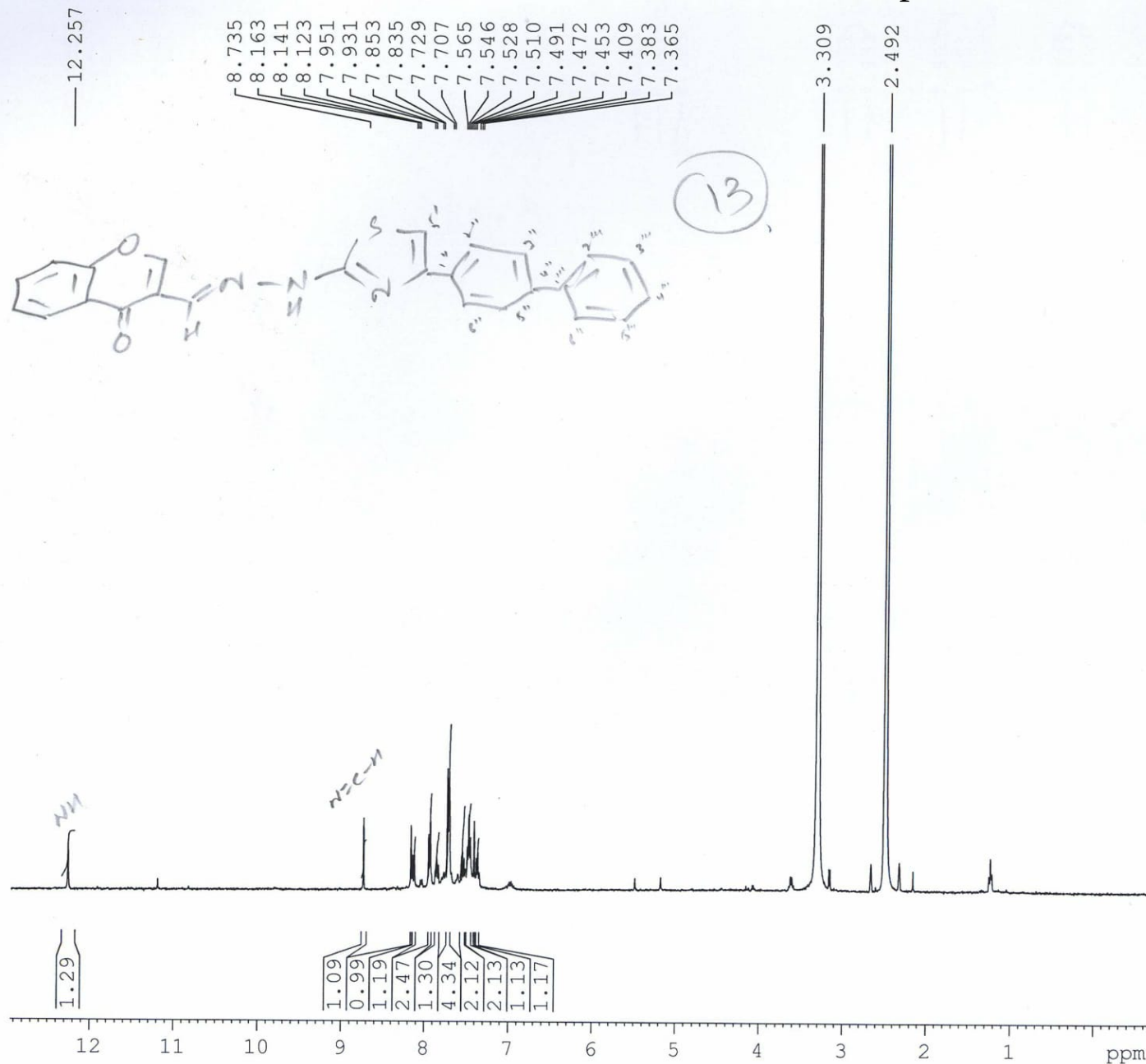
#Ions: 327



UZMA/DR, KHALID/US-IV-89/
ICCBS, U.O.K/

Compound 15

AVANCE 400
LAB NO 117



NAME sep18-14
EXPNO 8
PROCNO 1
Date_ 20140918
Time_ 10.44
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 2048
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
TDO 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

File: US-IV-97
Sample: UZMA SALAR /DR. KHALID
Instrument: JEOL JMS 600-H
Inlet: My Inlet

Date Run: 09-10-2014 (Time Run: 14:52:34)

Compound 16

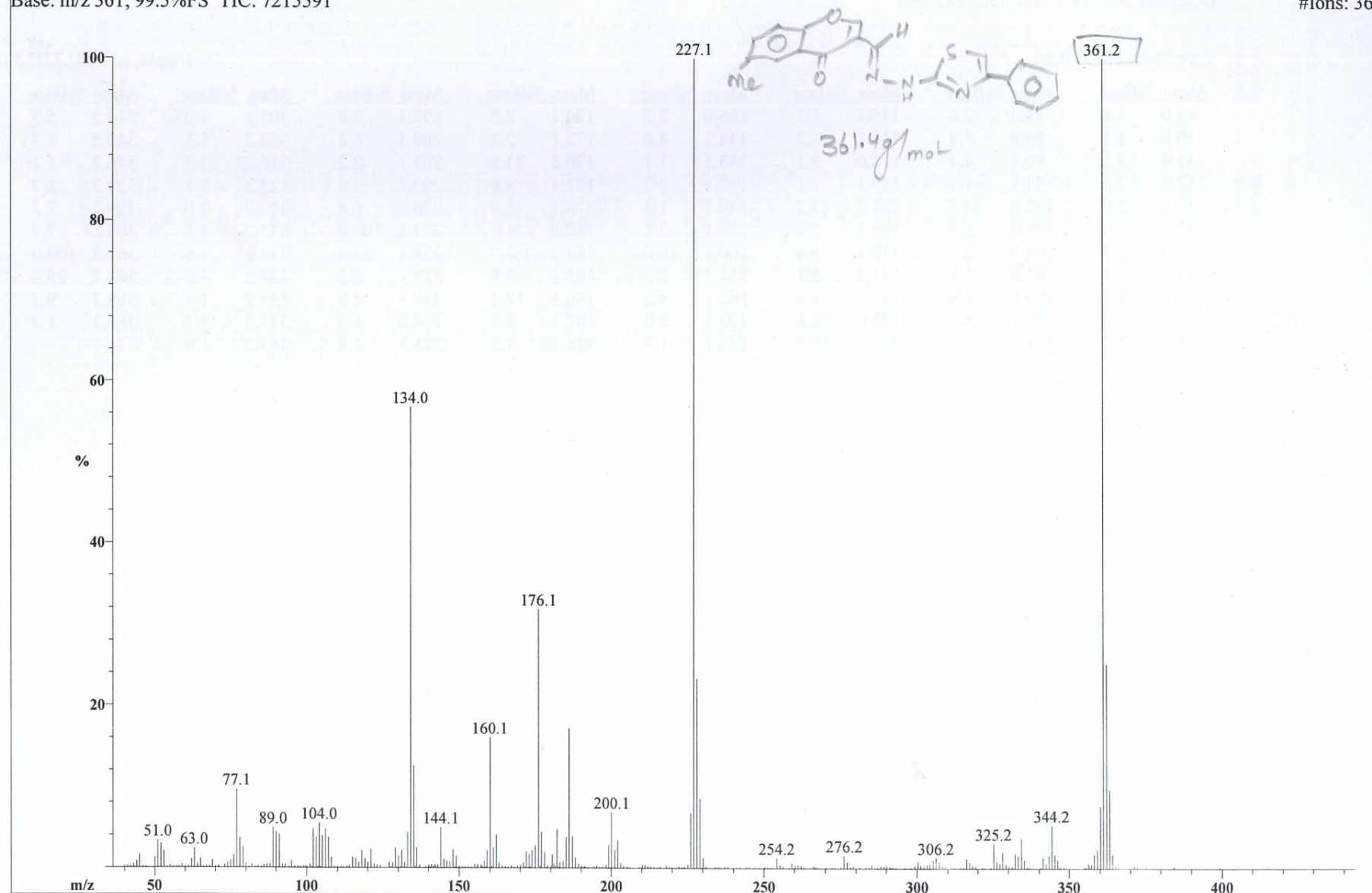
Ionization mode: EI+

Scan: 25

R.T.: 2.13

Base: m/z 361; 99.5%FS TIC: 7215591

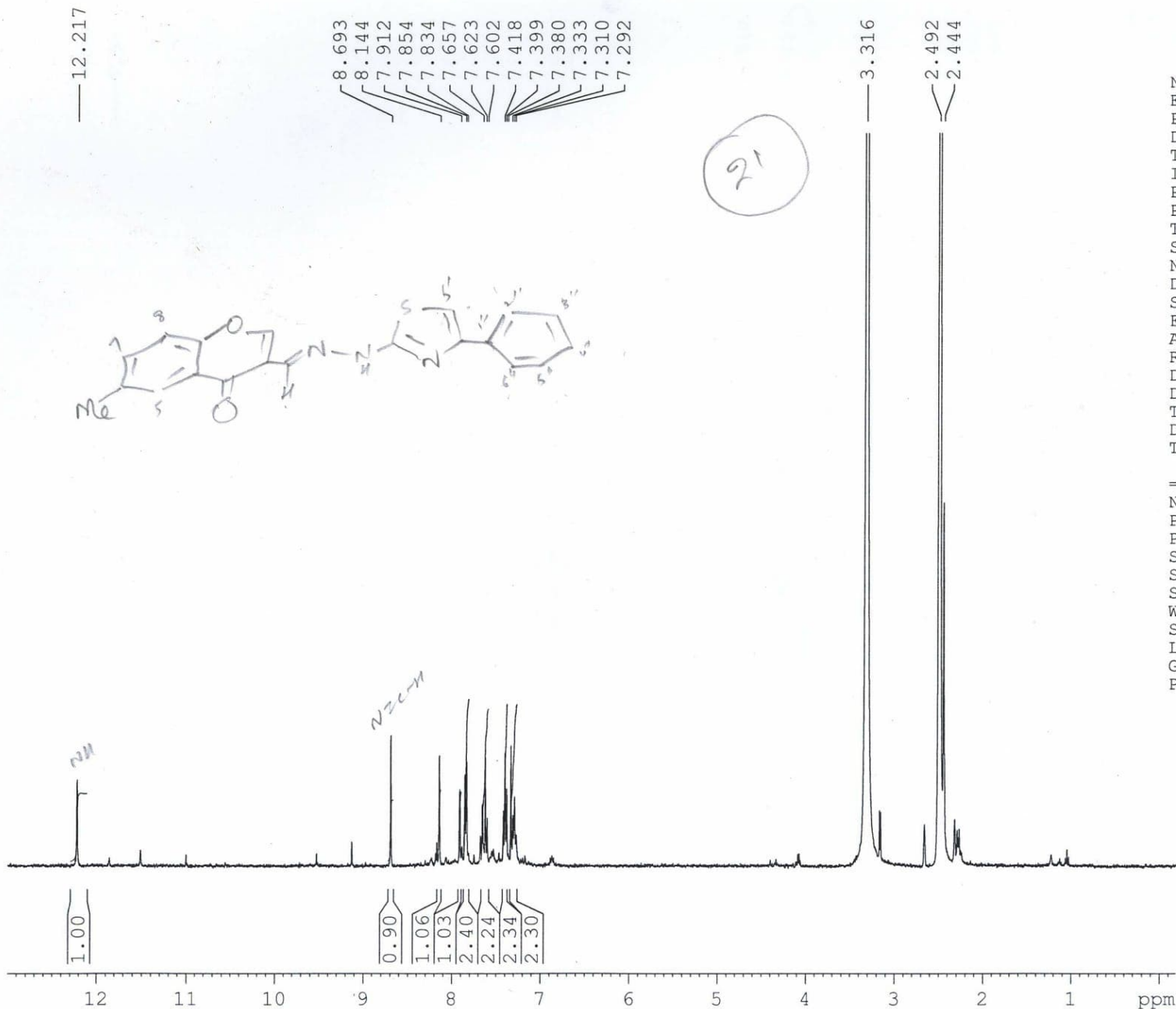
#Ions: 363



UZMA/DR, KHALID/US-IV-97/
ICCBS, U.O.K/

Compound 16

AVANCE 400
LAB NO 117



NAME sep18-14
EXPNO 6
PROCNO 1
Date_ 20140918
Time_ 10.25
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 2048
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

File: US-IV-98
Sample: UZMA SALAR /DR. KHALID
Instrument: JEOL JMS 600-H
Inlet: My Inlet

Date Run: 09-10-2014 (Time Run: 16:14:21)

Compound 17

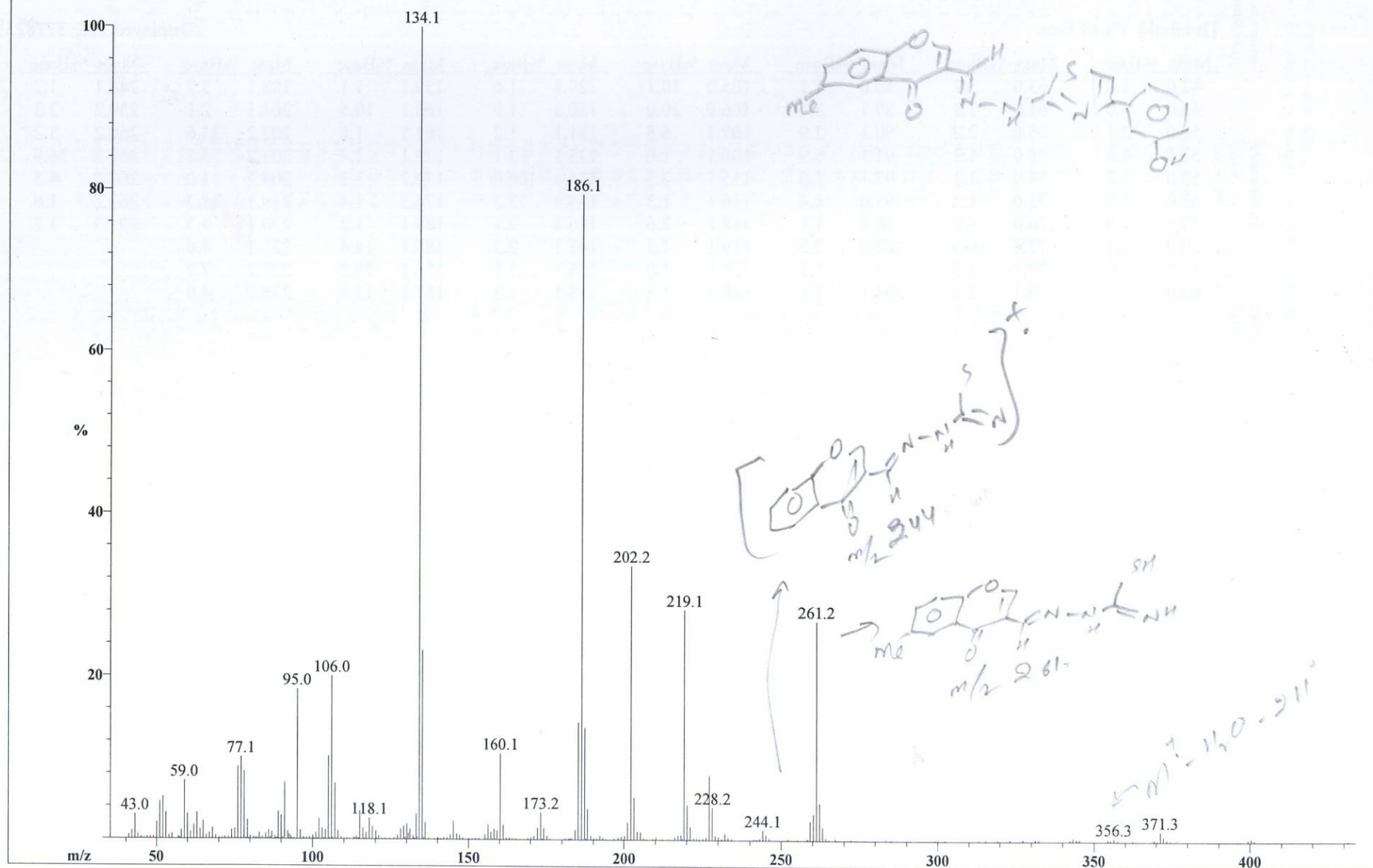
Ionization mode: EI+

Scan: 17

R.T.: 1.43

Base: m/z 134; 89.3%FS TIC: 5778253

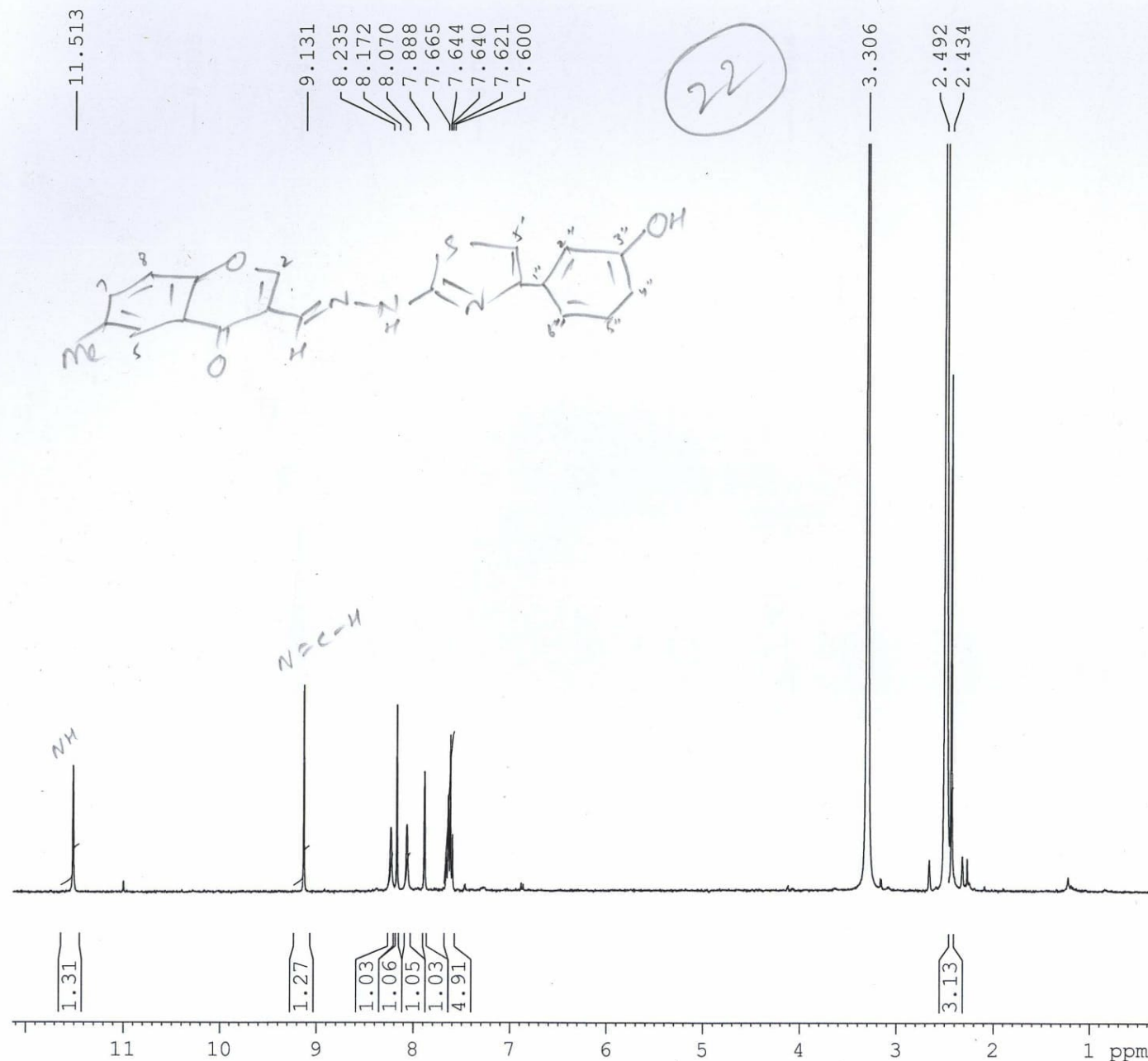
#Ions: 297



UZMA/DR, KHALID/US-IV-98/
ICCBS, U.O.K/

Compound 17

AVANCE 400
LAB NO 117



NAME sep18-14
EXPNO 7
PROCNO 1
Date_ 20140918
Time_ 10.36
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 2048
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

File: US-V-6
Sample: UZMA SALAR /DR. KHALID
Instrument: JEOL JMS 600-H
Inlet: My Inlet

Date Run: 09-11-2014 (Time Run: 09:06:03)

Compound 18

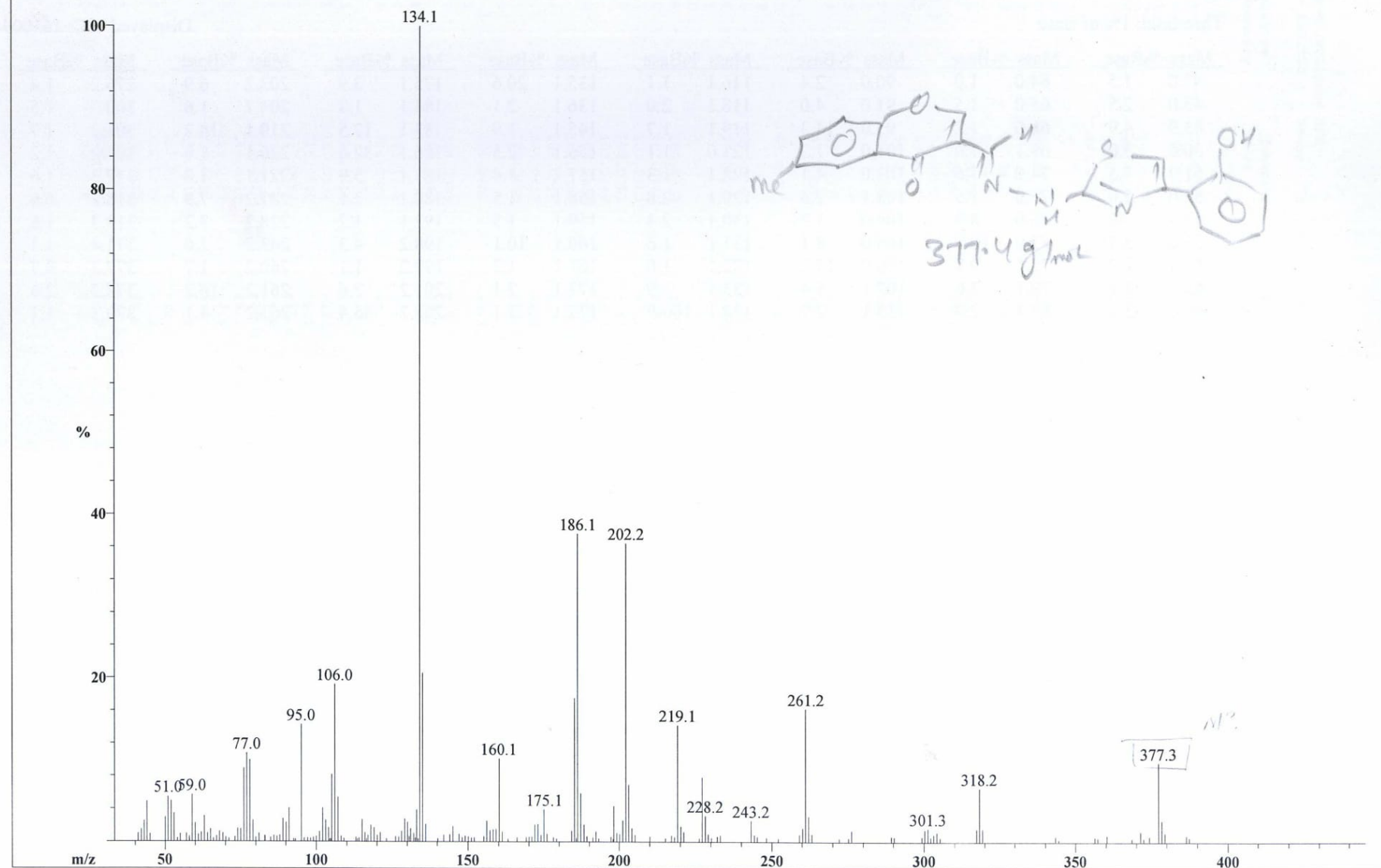
Ionization mode: EI+

Scan: 20

R.T.: 1.7

Base: m/z 134; 26.2%FS TIC: 1610094

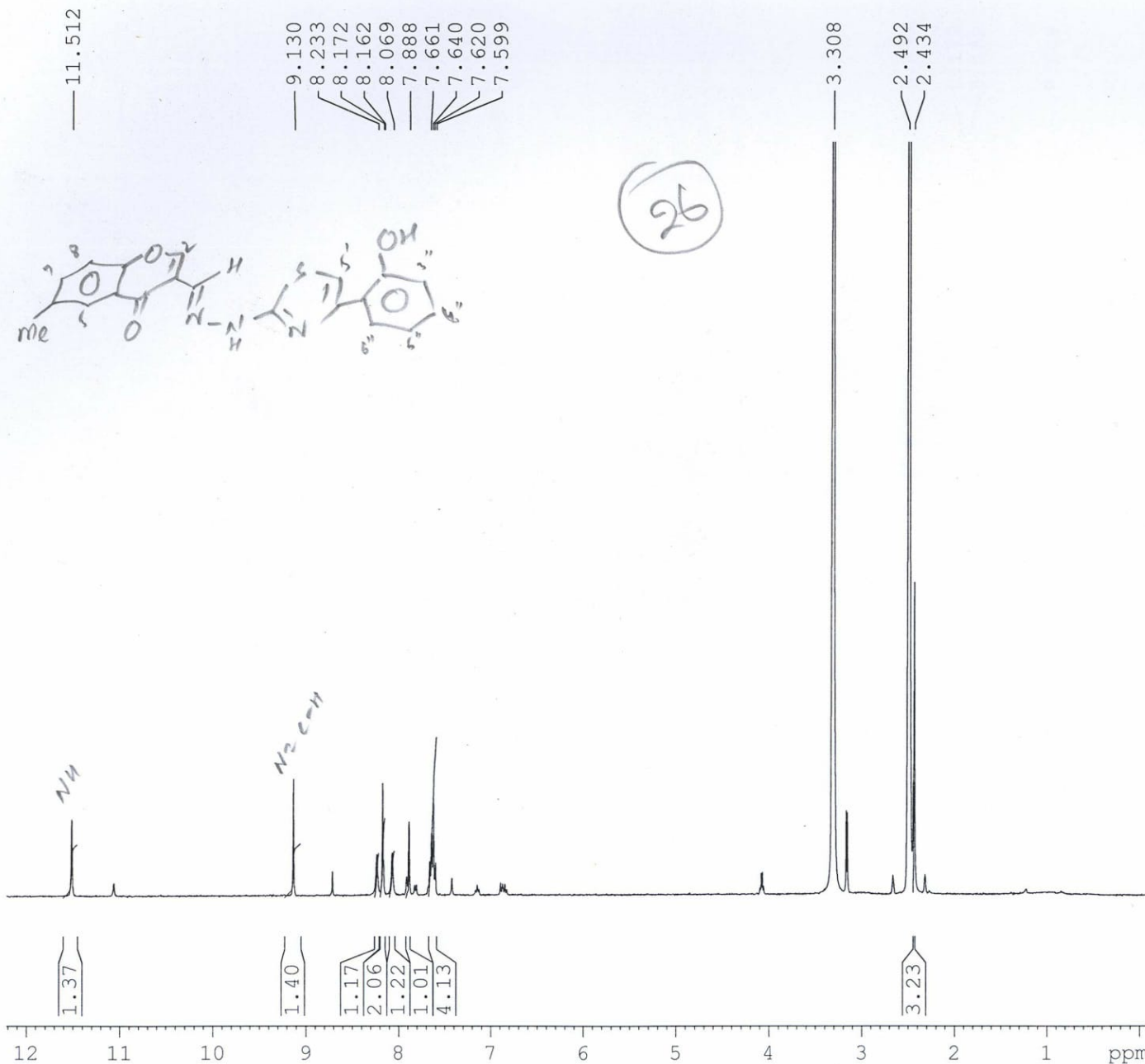
#Ions: 198



UZMA/DR, KHALID/US-4V-6/
ICCBS, U.O.K/

Compound 18

AVANCE 400
LAB NO 117



NAME jan30-15
EXPNO 9
PROCNO 1
Date 20150130
Time 9.28
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 362
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

File: US-IV-95
Sample: UZMA SALAR /DR. KHALID
Instrument: JEOL JMS 600-H
Inlet: My Inlet

Date Run: 09-10-2014 (Time Run: 15:19:20)

Compound 19

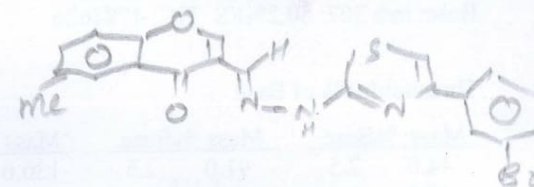
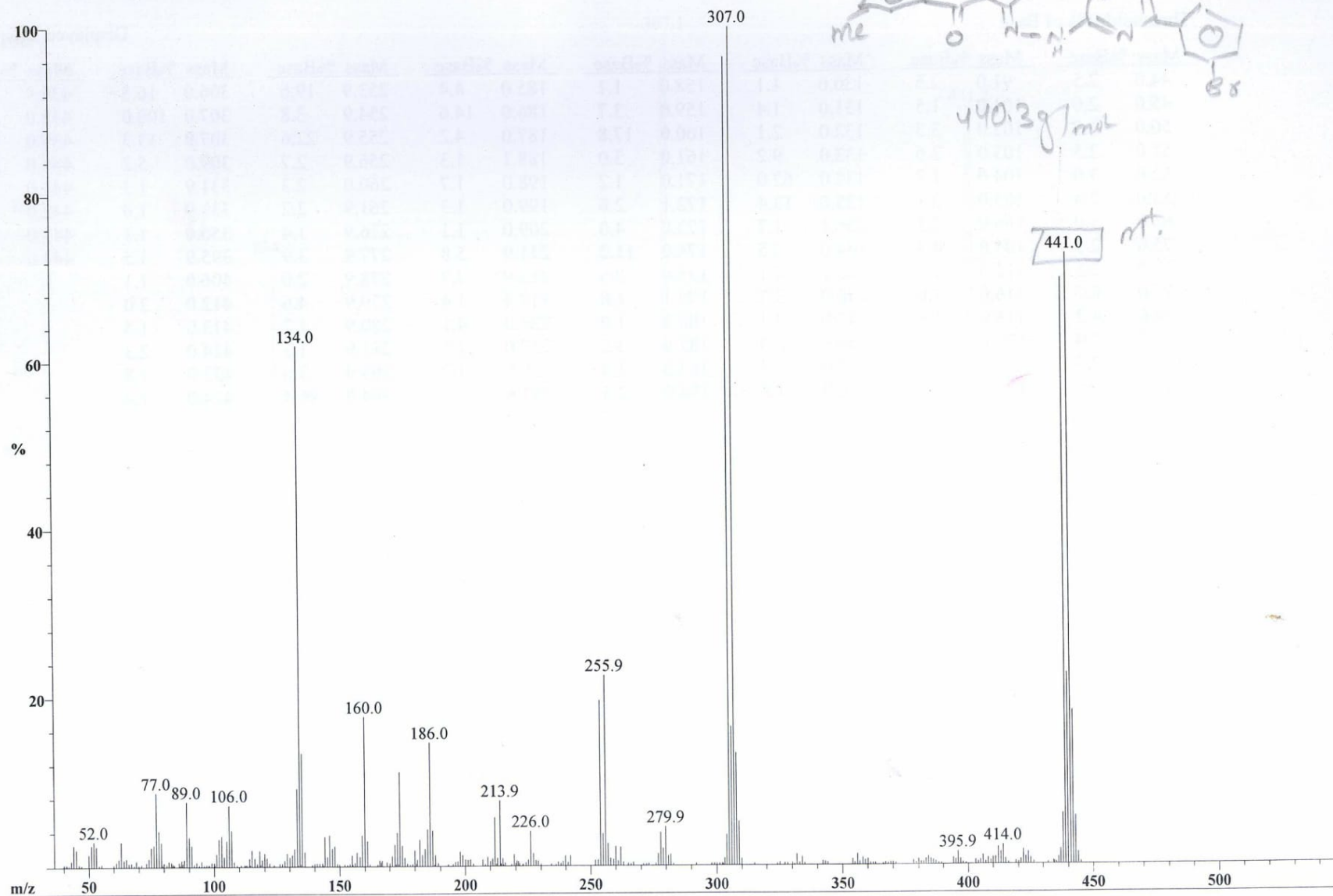
Ionization mode: EI+

Scan: 27

R.T.: 2.32

Base: m/z 307; 50.2%FS TIC: 4784626

#Ions: 330



440.38 mol

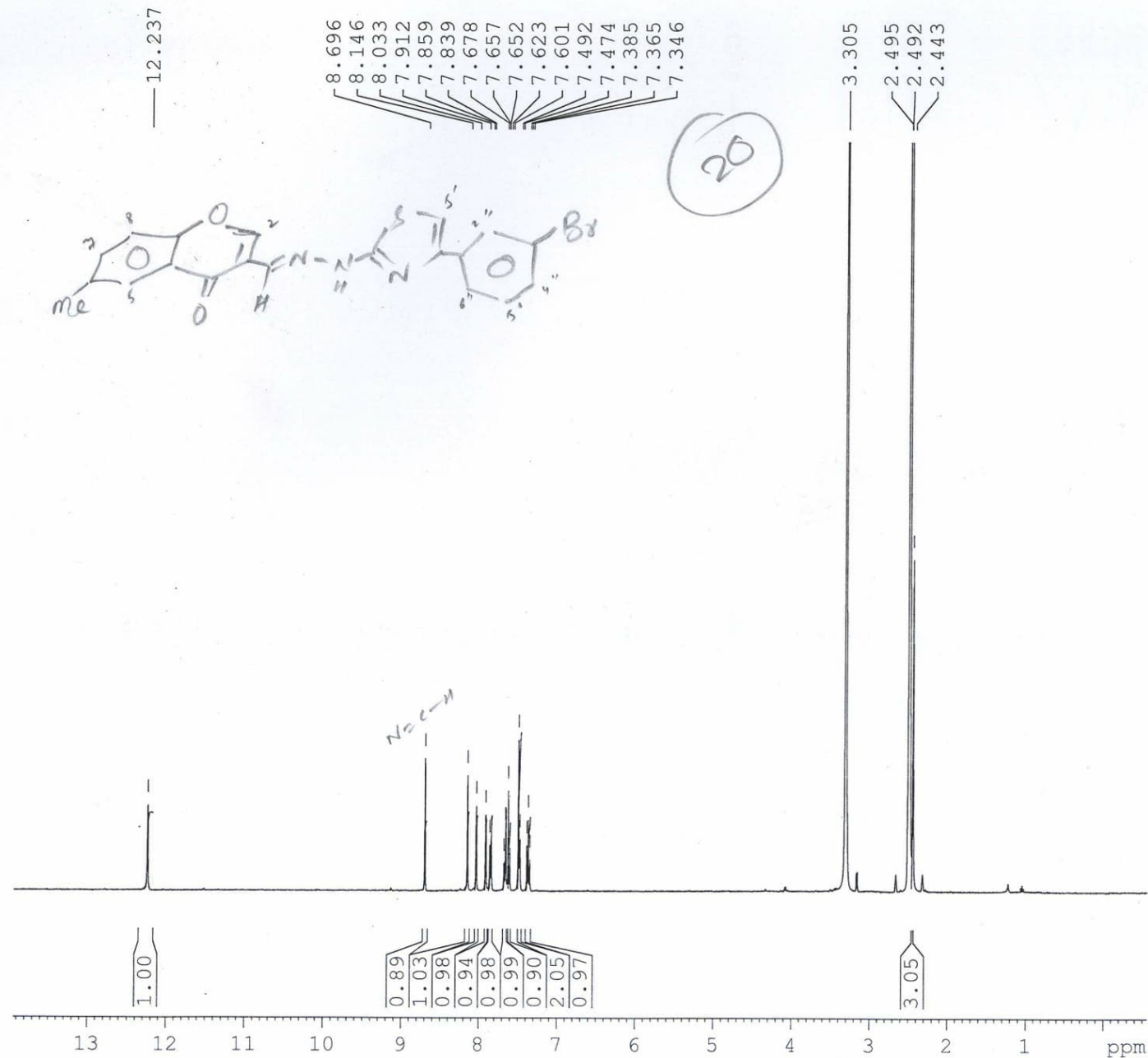
441.0

nt.

UZMA/DR, KHALID/US-IV-96/
ICCBS, U.O.K/

Compound 19

AVANCE 400
LAB NO 117



NAME feb26-15
EXPNO 11
PROCNO 1
Date_ 20150226
Time_ 10.04
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 362
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

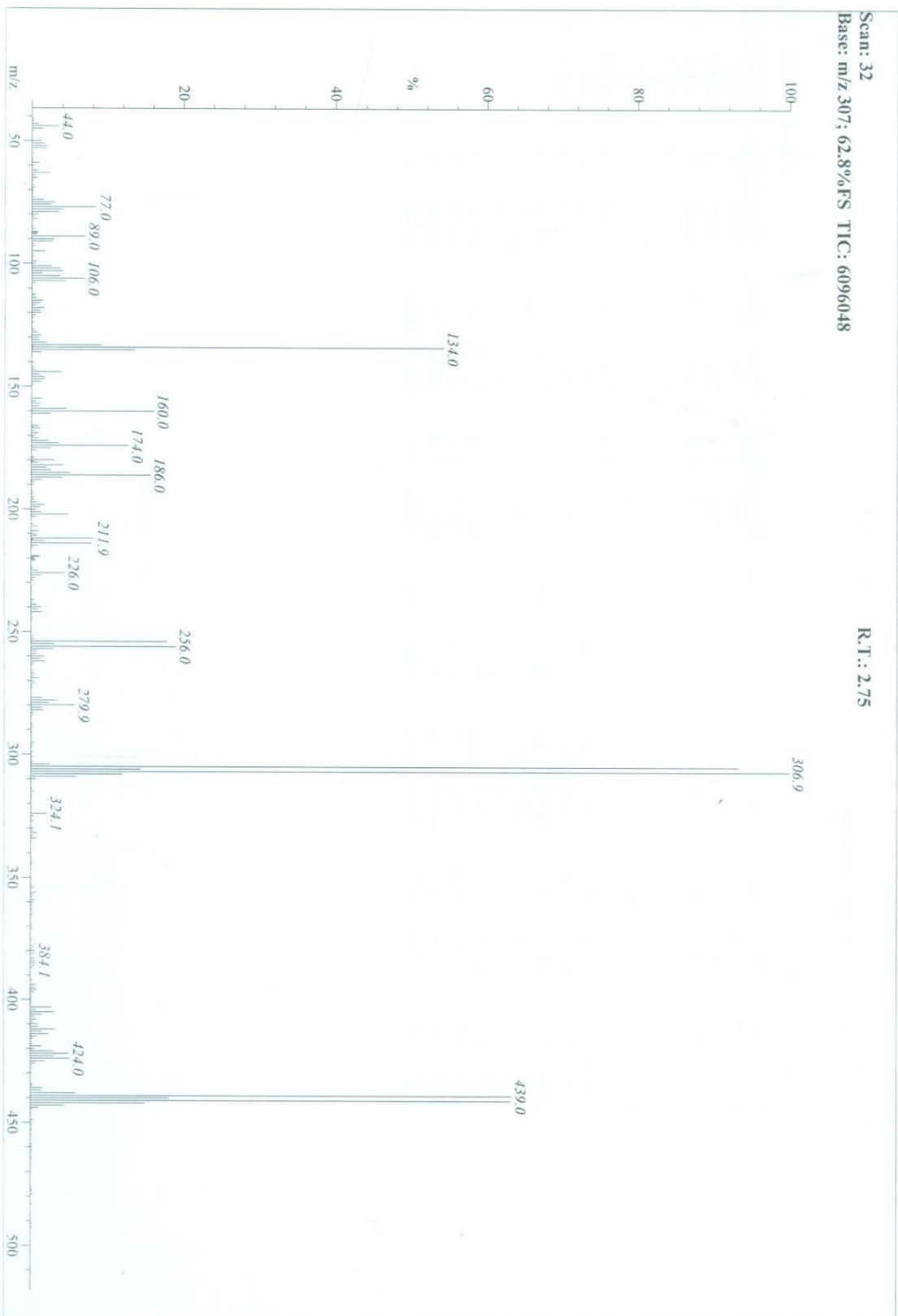
===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

Compound 20

File: US-IV-76
Sample: UZMA SALAR /DR. KHALID
Instrument: JEOL JMS 600-H

Date Run: 09-10-2014 (Time Run: 12:22:18)

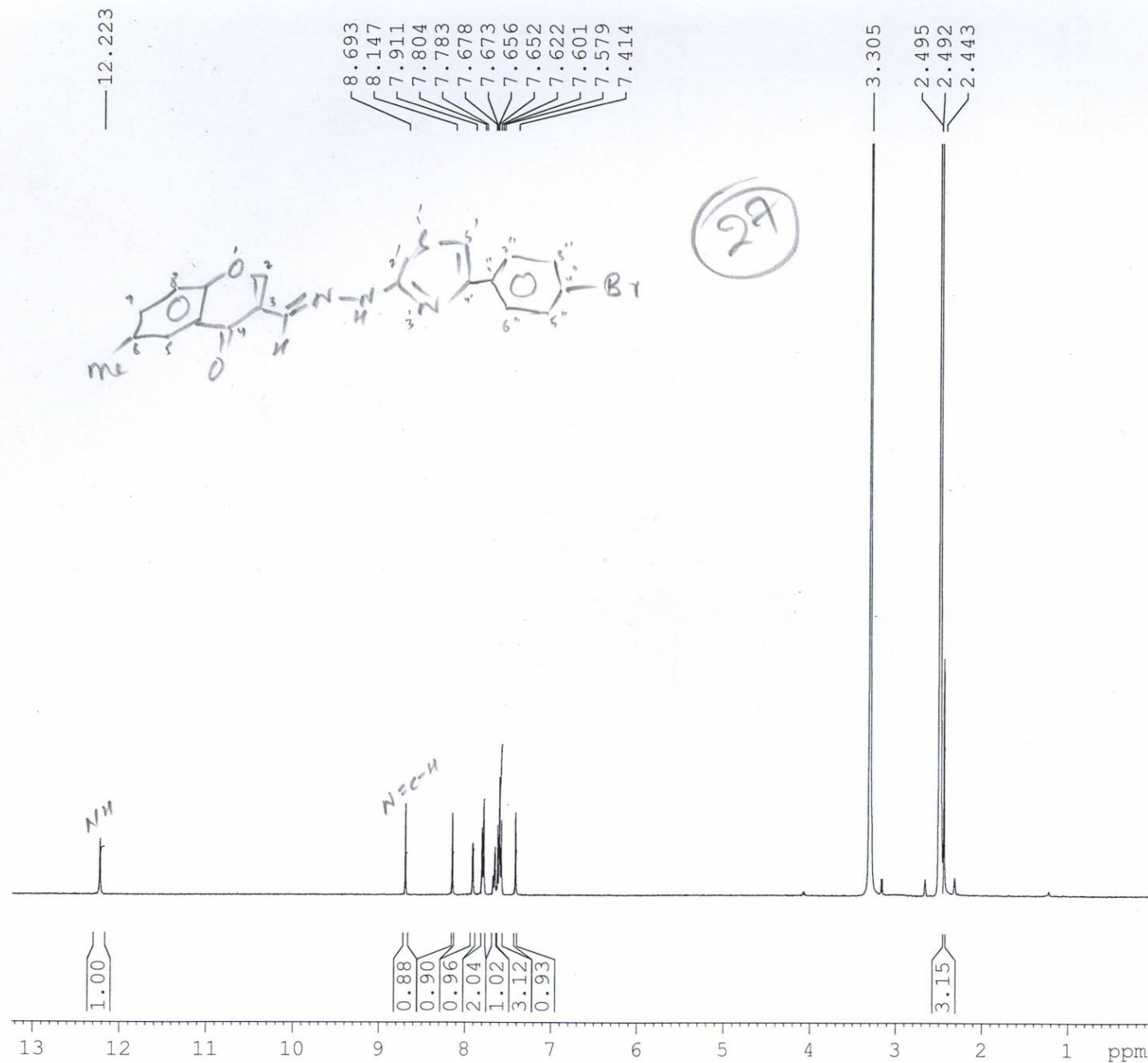
Ionization mode: EI+



UZMA/DR, KHALID/US-IV-76/
ICCBS, U.O.K/

Compound 20

AVANCE 400
LAB NO 117



NAME feb26-15
EXPNO 8
PROCNO 1
Date_ 20150226
Time 9.22
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 362
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

File: US-V-5
Sample: UZMA SALAR /DR. KHALID
Instrument: JEOL JMS 600-H
Inlet: My Inlet

Date Run: 09-11-2014 (Time Run: 09:13:00)

Compound 21

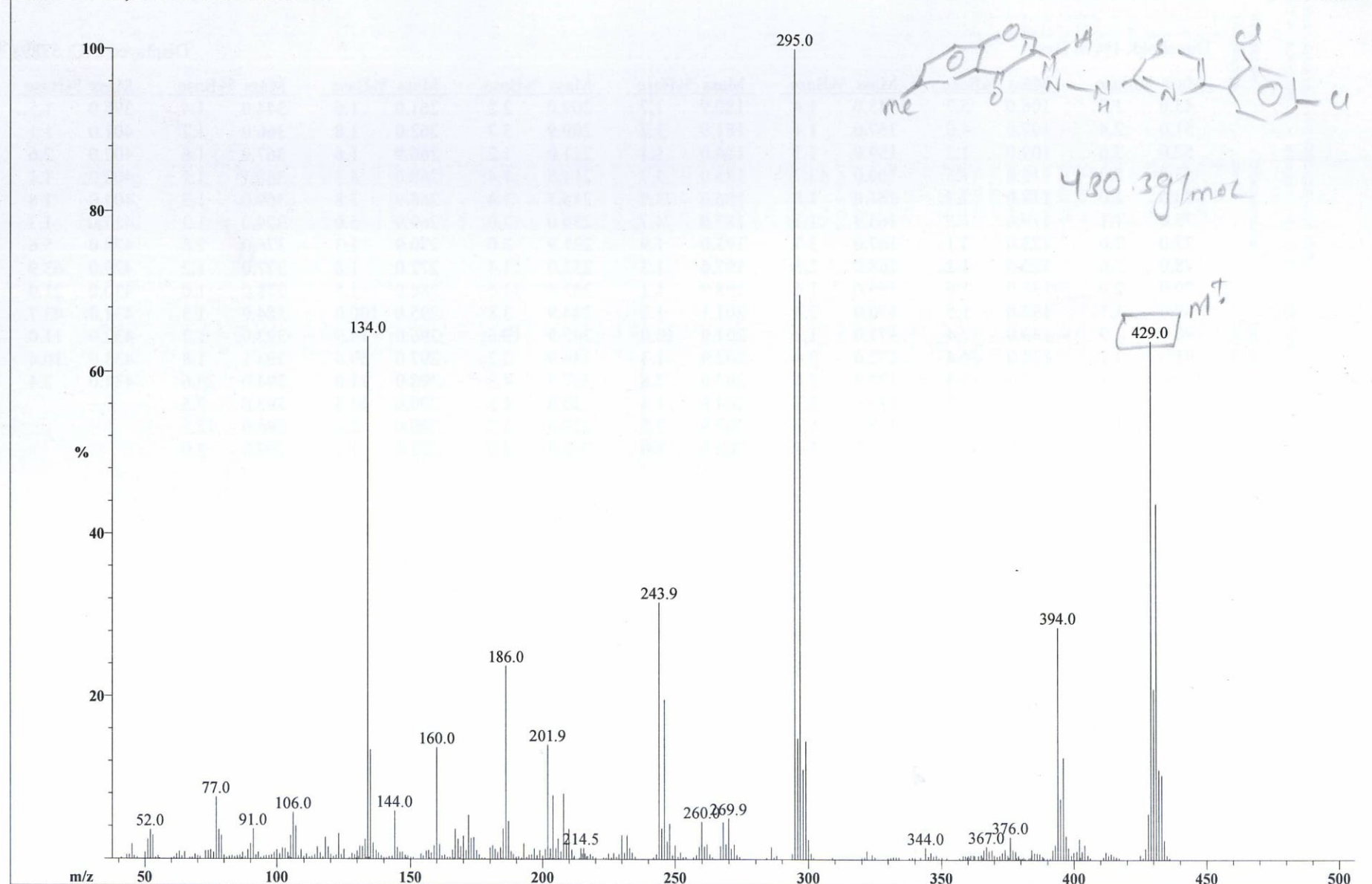
Ionization mode: EI+

Scan: 26

R.T.: 2.22

Base: m/z 295; 59.5%FS TIC: 5789820

#Ions: 348



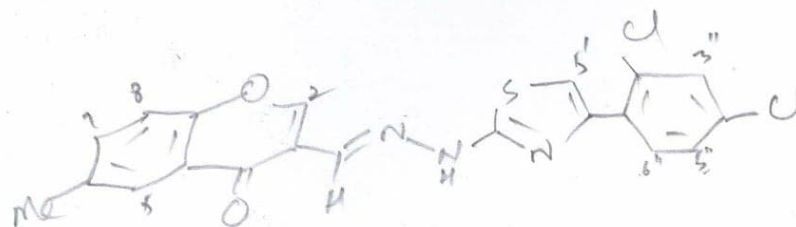
UZMA/DR, KHALID/US-V-5/
ICCBS, U.O.K/

Compound 21

AVANCE 400
LAB NO 117

— 12.229

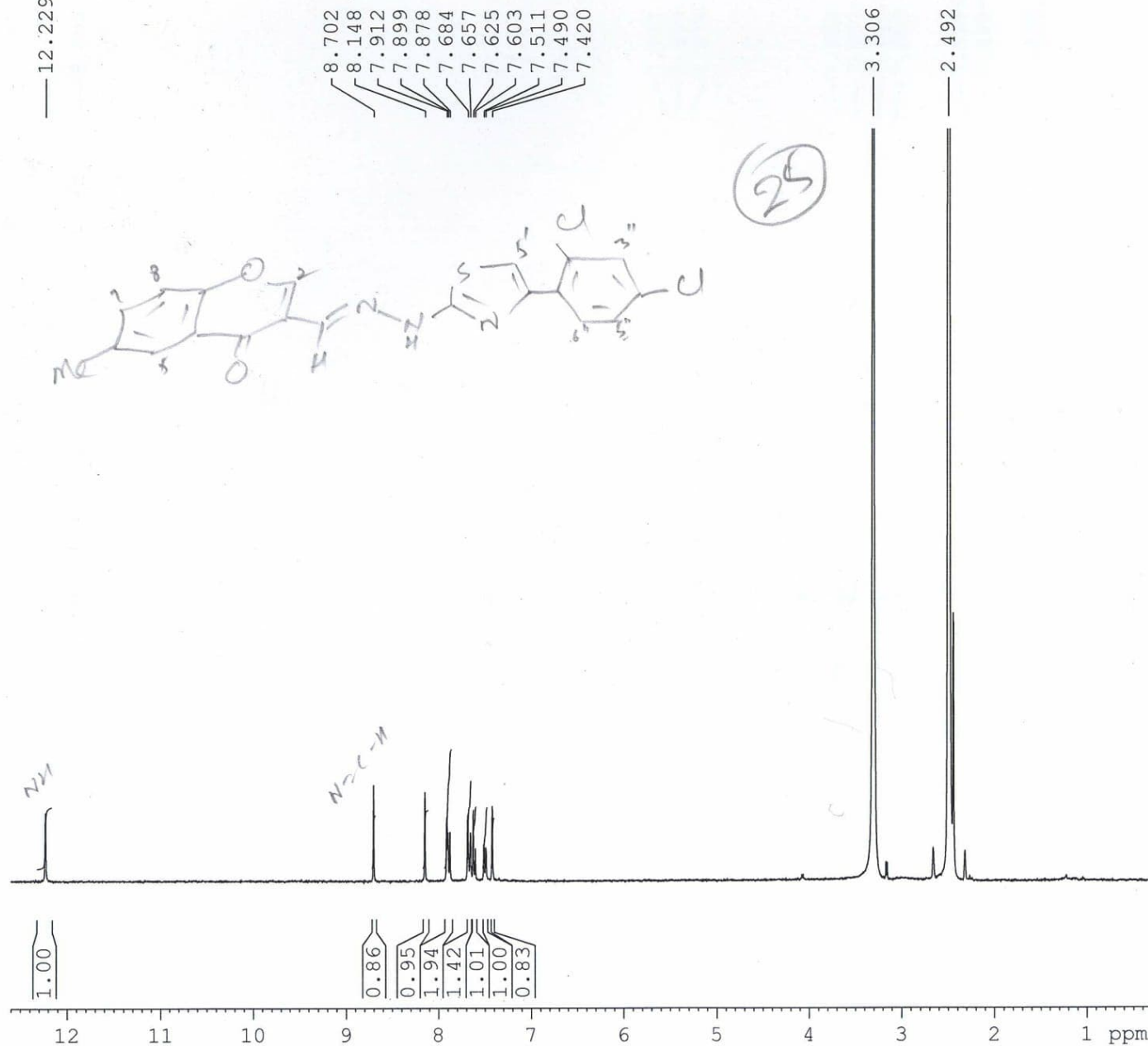
8.702
8.148
7.912
7.899
7.878
7.684
7.657
7.625
7.603
7.511
7.490
7.420



(25)

— 3.306

— 2.492



NAME nov28-14
EXPNO 6
PROCNO 1
Date_ 20141128
Time_ 10.00
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 456.1
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

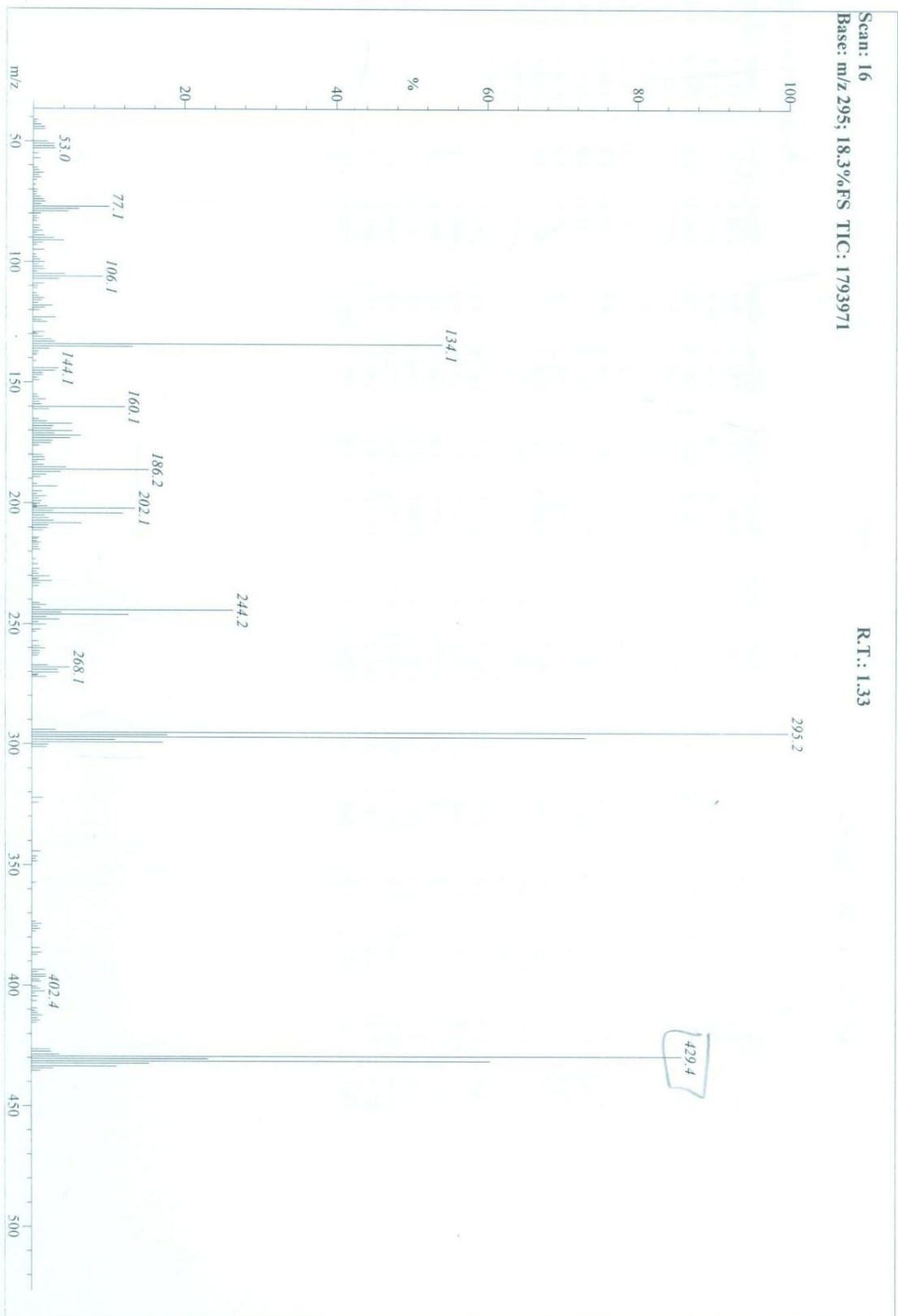
Compound 22

09/10/2014 7:45:03 AM

File: US-IV-99
Sample: UZMA SALAR /DR. KHALID
Instrument: JEOL JMS 600-H

Date Run: 09-10-2014 (Time Run: 15:00:28)

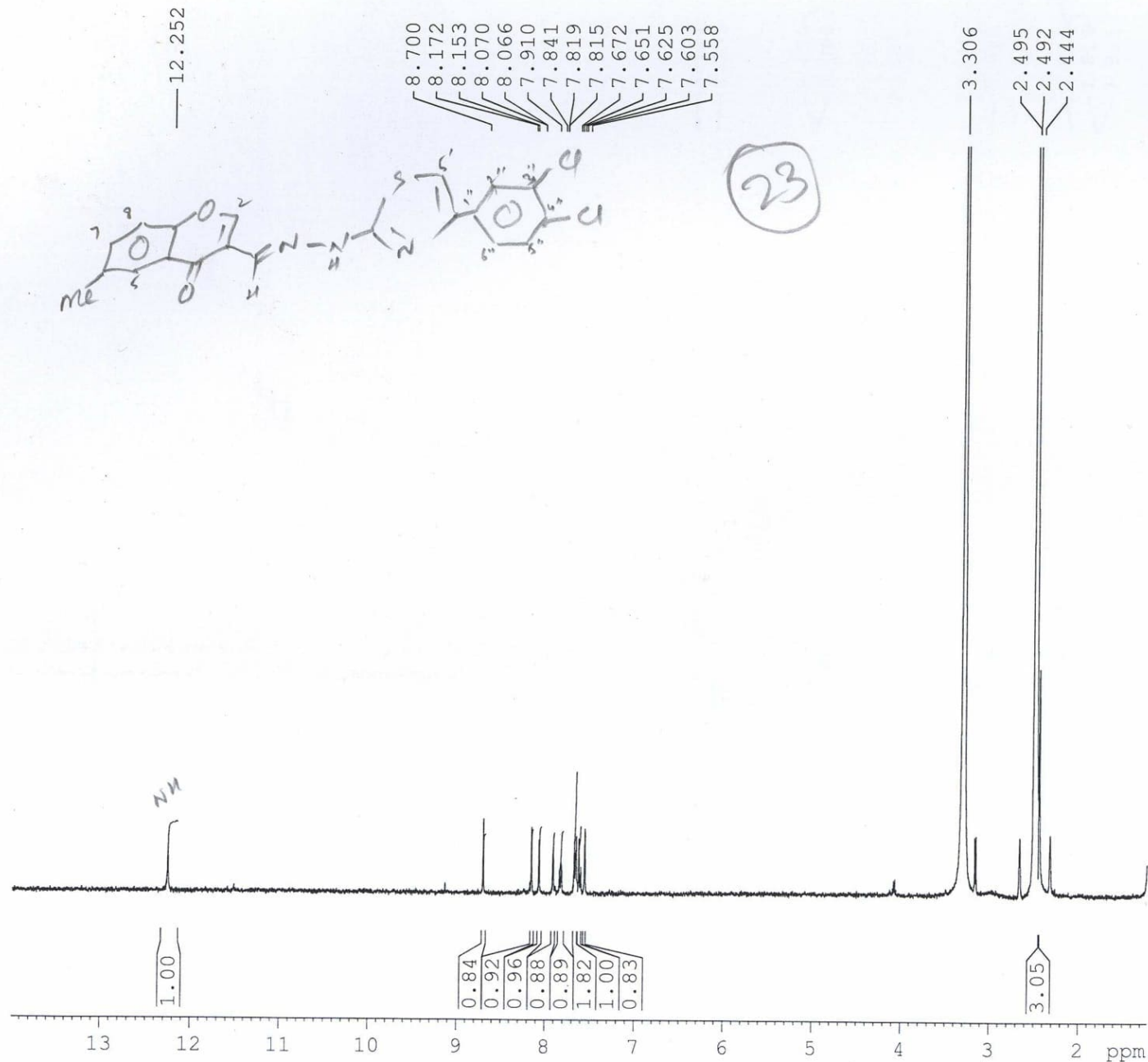
Ionization mode: EI+



UZMA/DR, KHALID/US-IV-99/
ICCBS, U.O.K/

Compound 22

AVANCE 400
LAB NO 117



NAME feb26-15
EXPNO 7
PROCNO 1
Date 20150226
Time 9.11
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 362
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

File: US-IV-92
Sample: UZMA SALAR /DR. KHALID
Instrument: JEOL JMS 600-H
Inlet: My Inlet

Date Run: 09-10-2014 (Time Run: 16:32:18)

Compound 23

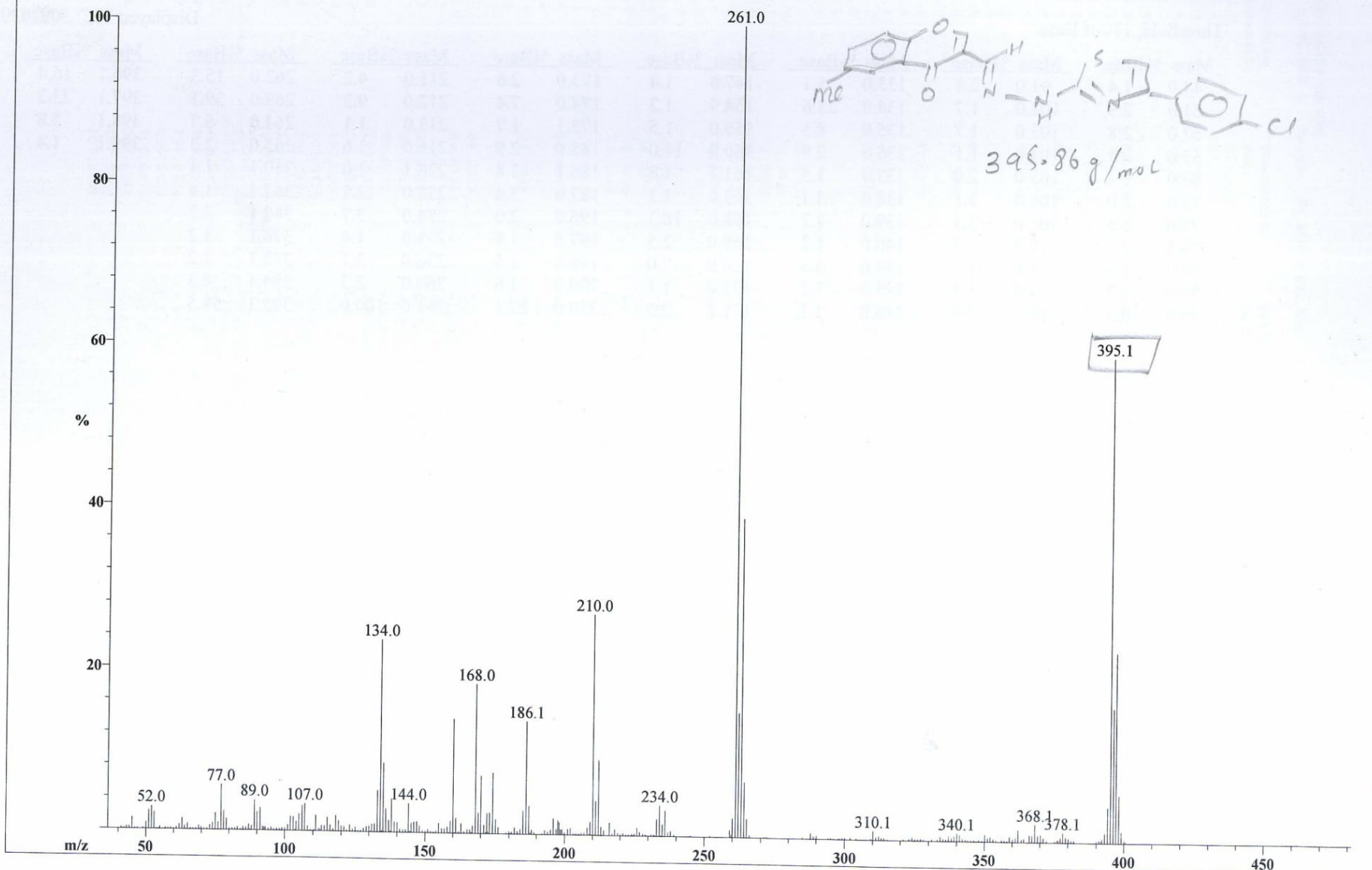
Ionization mode: EI+

Scan: 13

Base: m/z 261; 78.4%FS TIC: 5092039

R.T.: 1.07

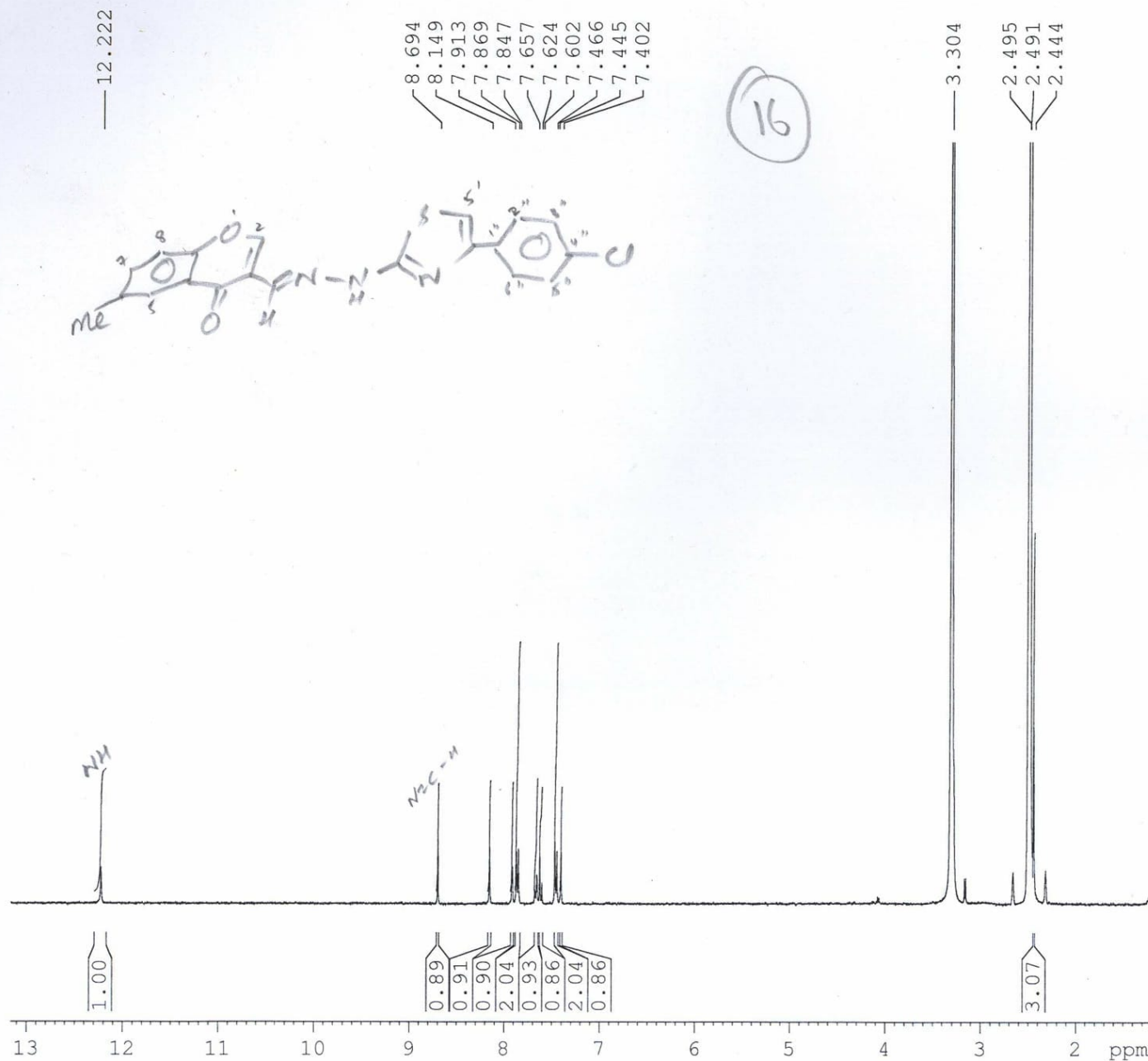
#Ions: 331



UZMA/DR, KHALID/US-IV-92/
ICCBS, U.O.K/

Compound 23

AVANCE 400
LAB NO 117



NAME feb26-15
EXPNO 6
PROCNO 1
Date_ 20150226
Time_ 8.56
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 362
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

File: US-IV-100
Sample: UZMA SALAR /DR. KHALID
Instrument: JEOL JMS 600-H
Inlet: My Inlet

Date Run: 09-10-2014 (Time Run: 16:19:25)

Compound 24

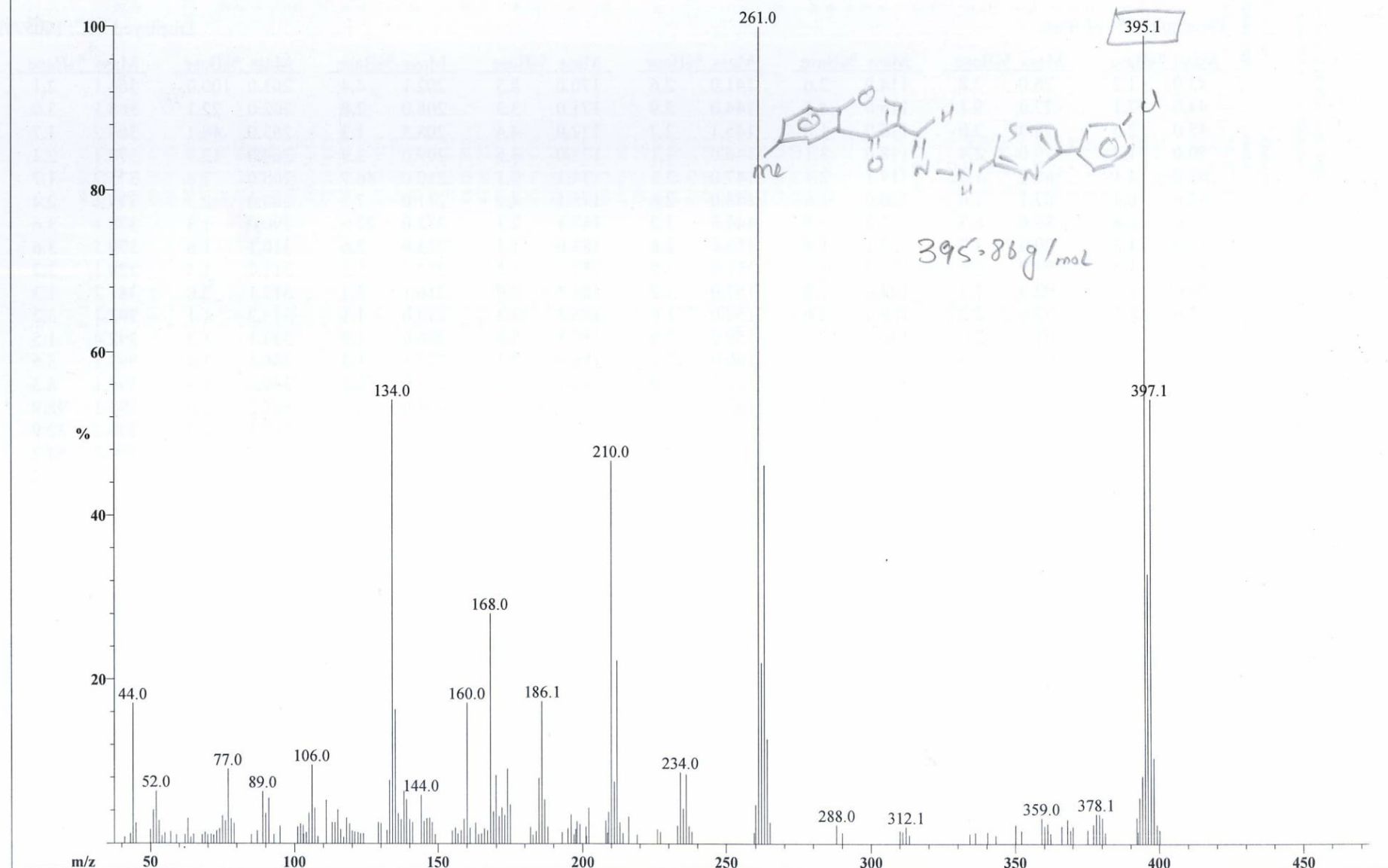
Ionization mode: EI+

Scan: 12

R.T.: .98

Base: m/z 261; 9.3%FS TIC: 1005793

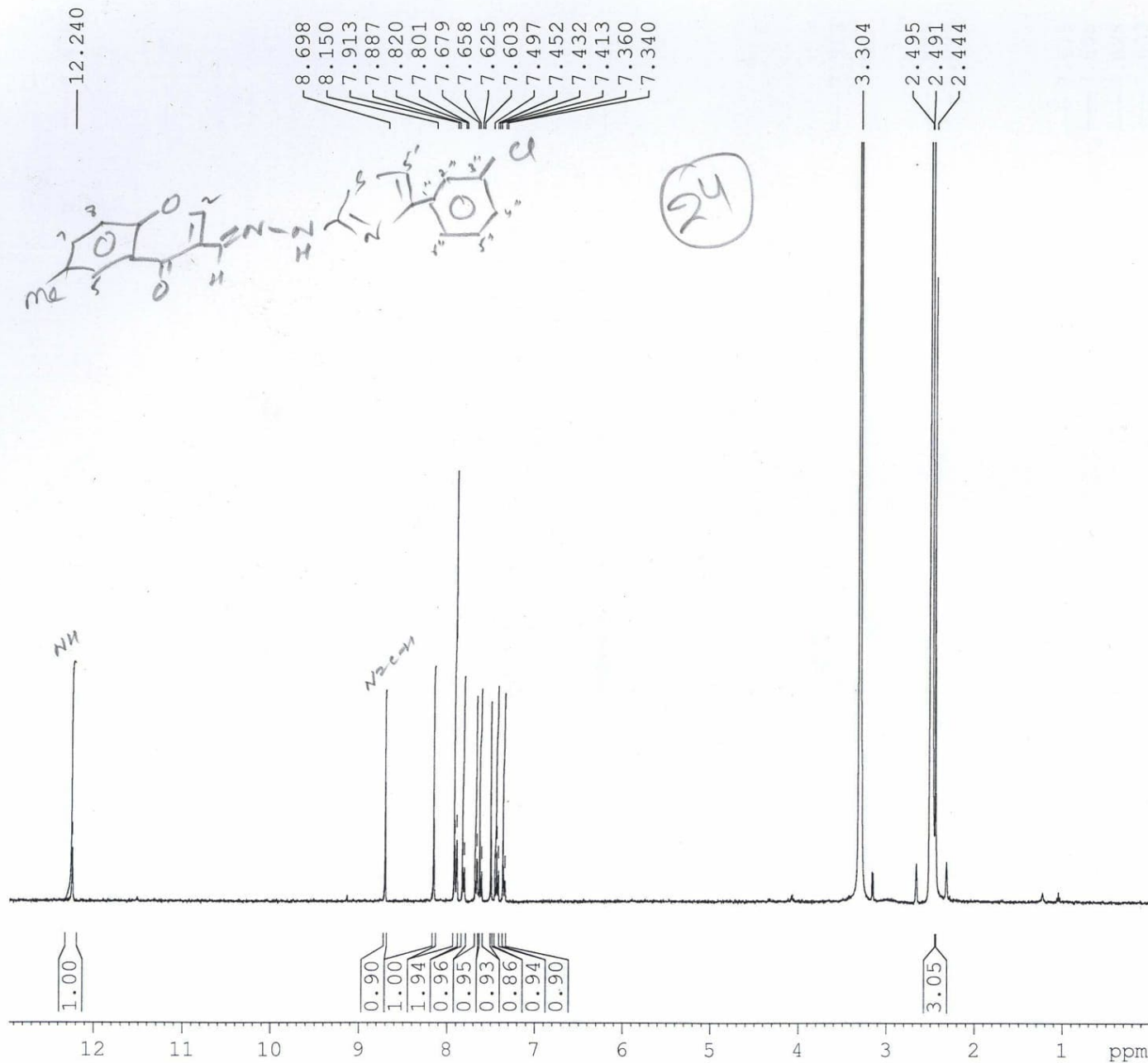
#Ions: 173



UZMA/DR, KHALID/US-IV-100/
ICCBS, U.O.K/

Compound 24

AVANCE 400
LAB NO 117



NAME feb26-15
EXPNO 9
PROCNO 1
Date_ 20150226
Time_ 9.38
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 362
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

File: US-IV-96-95
Sample: UZMA SALAR /DR. KHALID
Instrument: JEOL JMS 600-H
Inlet: My Inlet

Date Run: 09-10-2014 (Time Run: 16:07:38)

Compound 25

Ionization mode: EI+

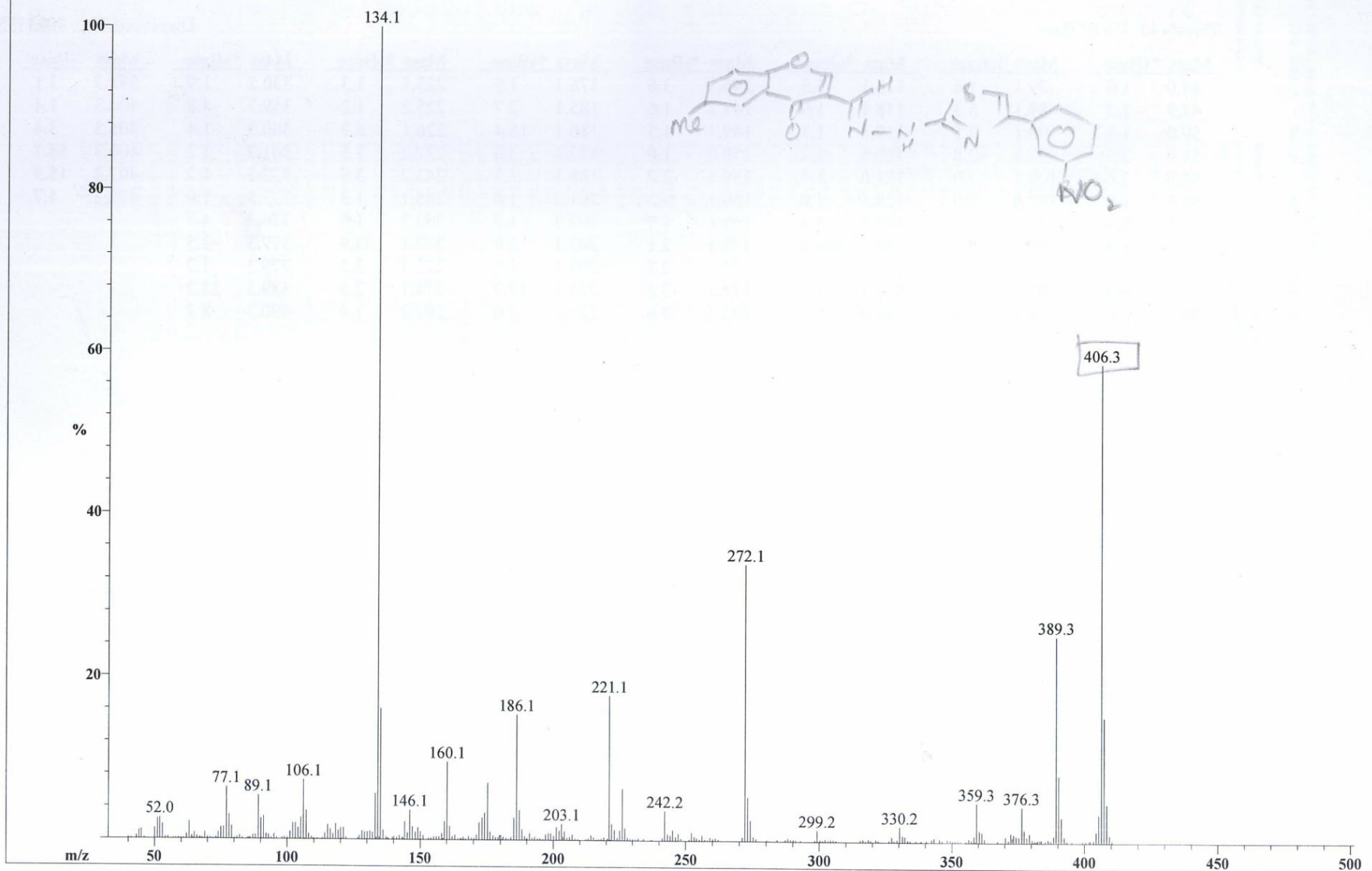
Scan: 25

R.T.: 2.13

Base: m/z 134; 69.4%FS TIC: 4084135

check the name

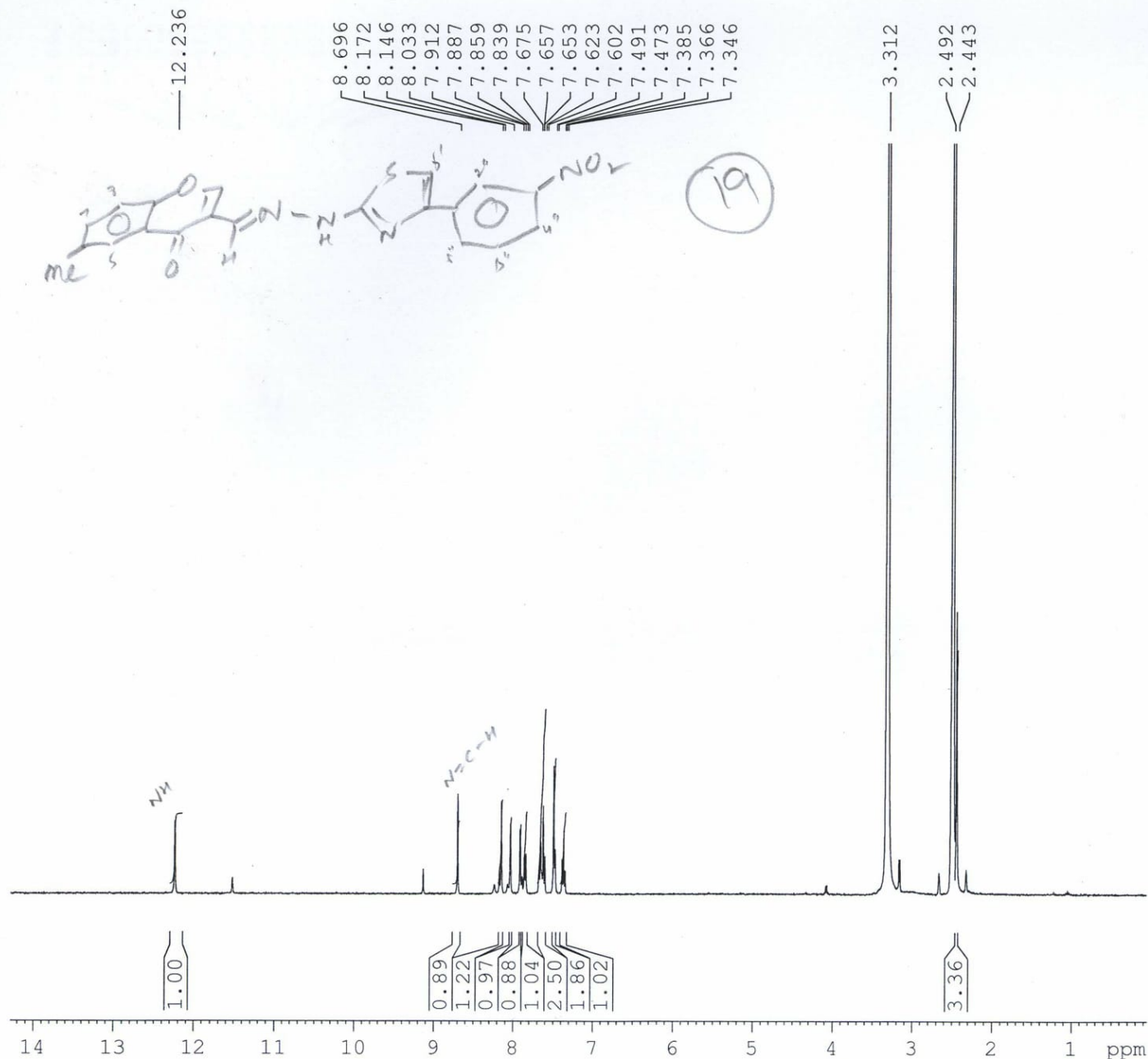
#Ions: 331



UZMA/DR, KHALID/US-IV-95/
ICCBS, U.O.K/

Compound 25

AVANCE 400
LAB NO 117



NAME feb02-15
EXPNO 6
PROCNO 1
Date_ 20150202
Time_ 10.42
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 362
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

File: US-IV-94
Sample: UZMA SALAR /DR. KHALID
Instrument: JEOL JMS 600-H
Inlet: My Inlet

Date Run: 09-11-2014 (Time Run: 08:58:33)

Compound 26

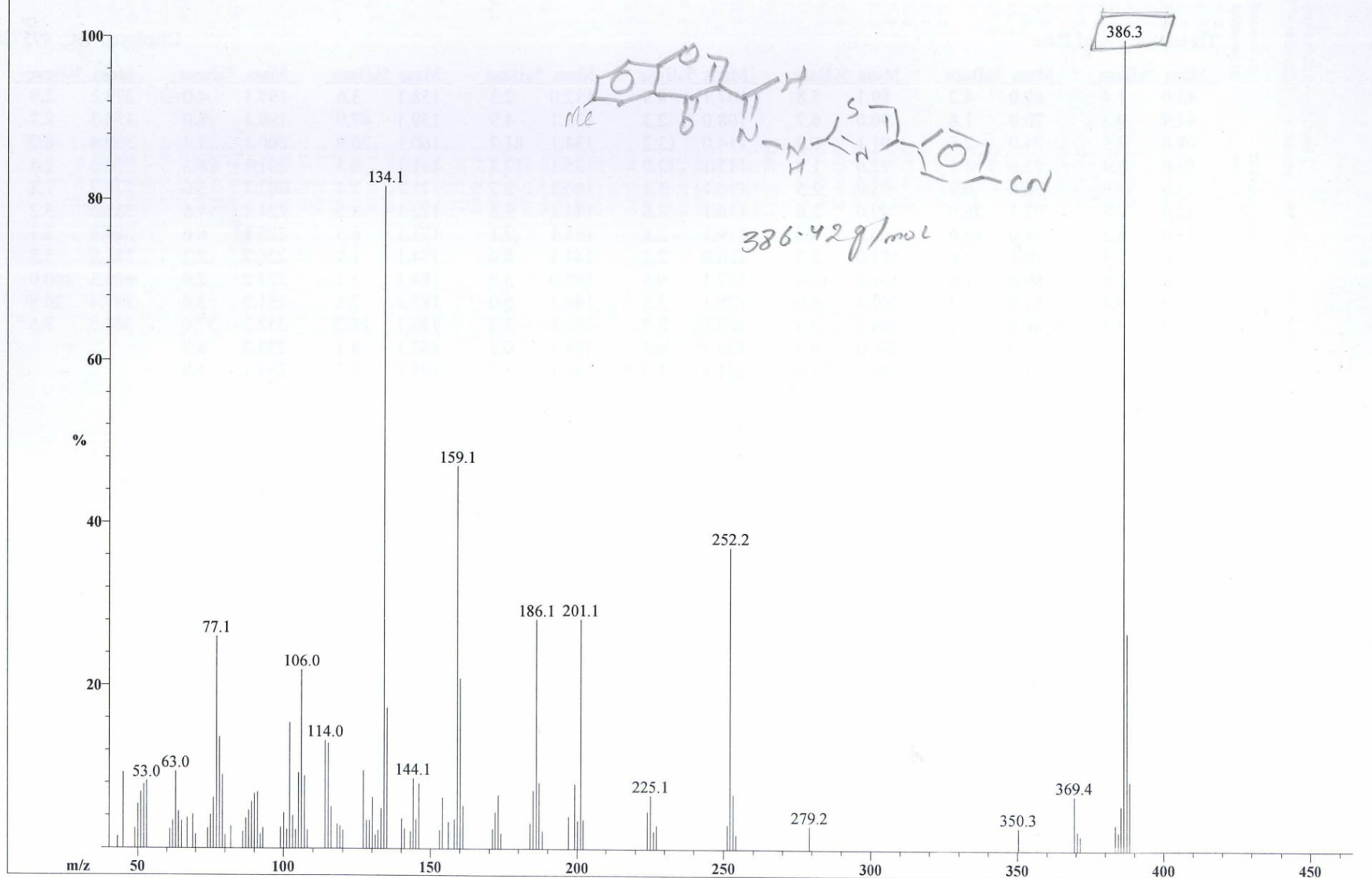
Ionization mode: EI+

Scan: 20

R.T.: 1.7

Base: m/z 386; 5.4%FS TIC: 495726

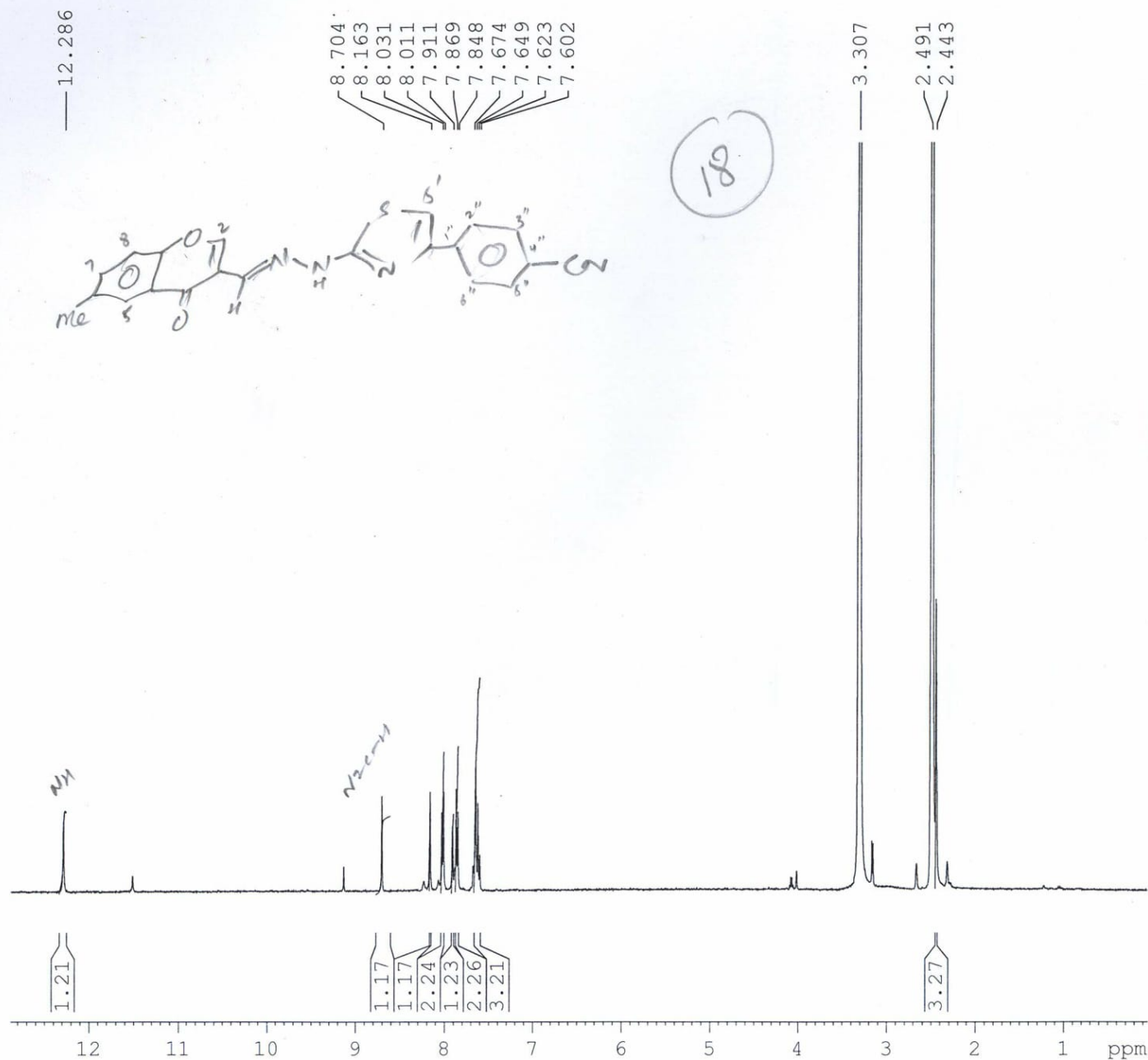
#Ions: 102



UZMA/DR, KHALID/US-IV-94/
ICCBS, U.O.K/

Compound 26

AVANCE 400
LAB NO 117



NAME jan26-15
EXPNO 9
PROCNO 1
Date_ 20150126
Time_ 10.35
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 362
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 1.50000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

File: US-IV-93
Sample: UZMA SALAR /DR. KHALID
Instrument: JEOL JMS 600-H
Inlet: My Inlet

Date Run: 09-10-2014 (Time Run: 15:12:04)

Compound 27

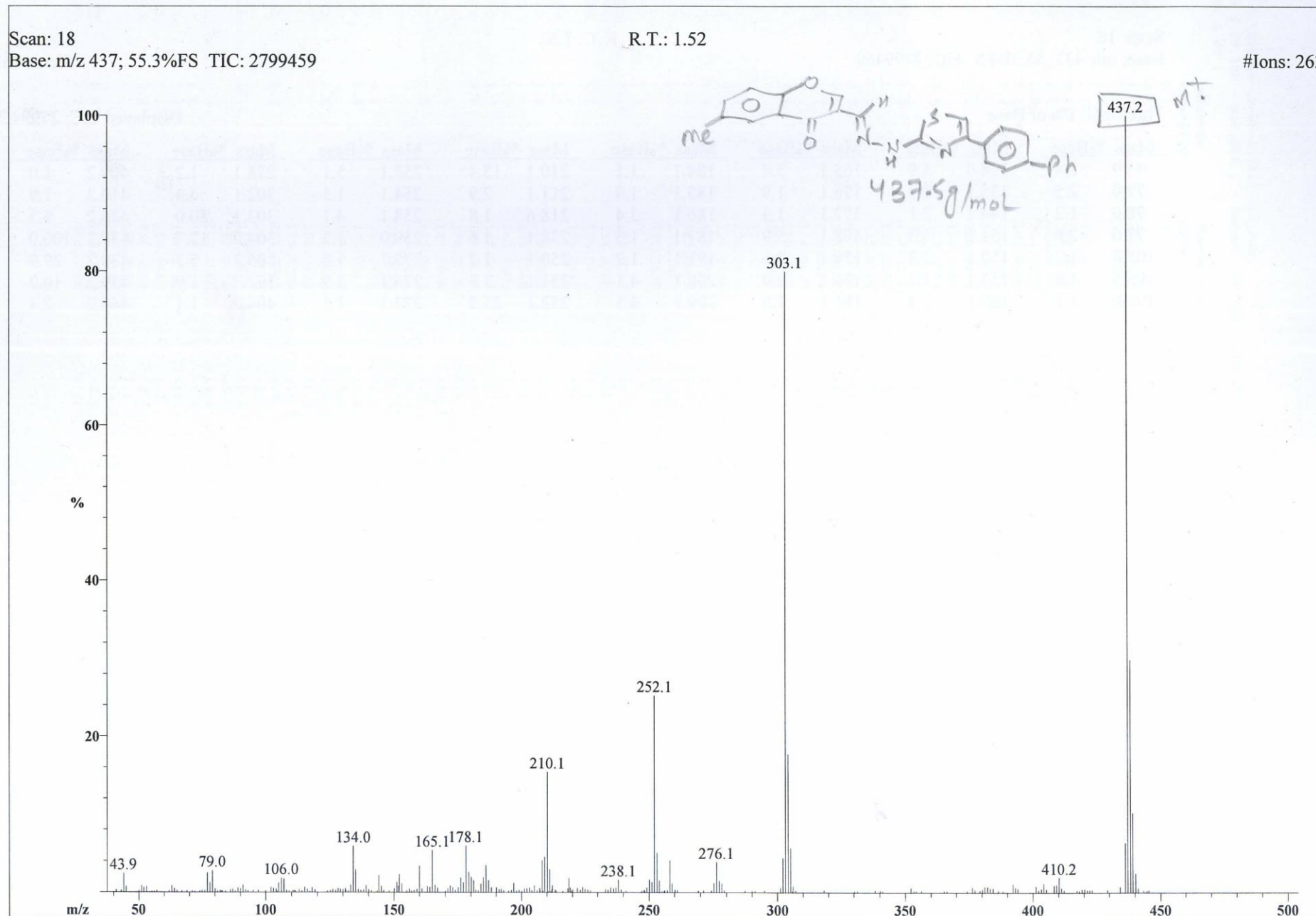
Ionization mode: EI+

Scan: 18

R.T.: 1.52

Base: m/z 437; 55.3%FS TIC: 2799459

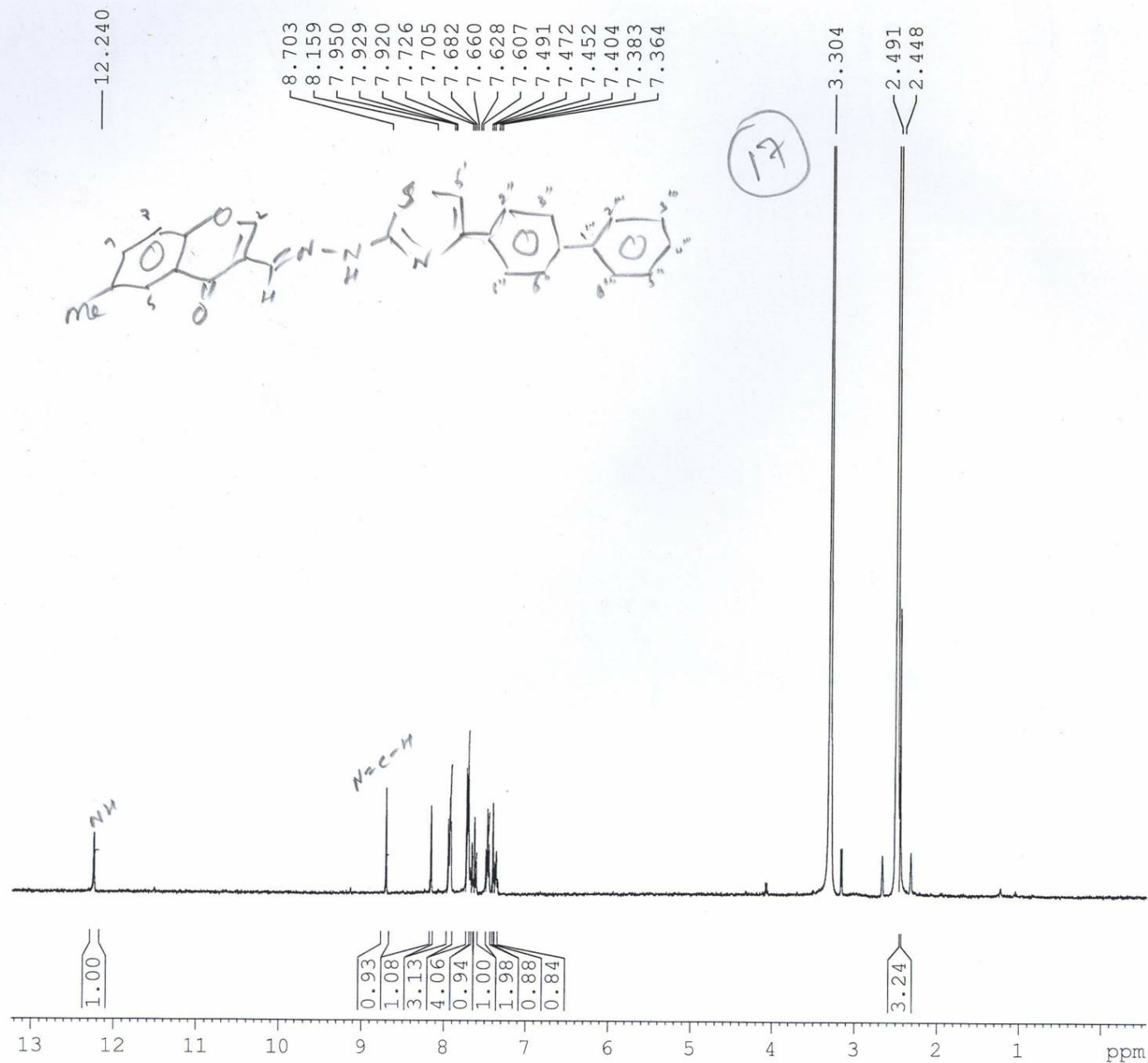
#Ions: 263



UZMA/DR, KHALID/US-IV-93/
ICCBS, U.O.K/

Compound 27

AVANCE 400
LAB NO 117



NAME feb26-15
EXPNO 10
PROCNO 1
Date_ 20150226
Time_ 9.48
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 64
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 362
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.20 usec
PL1 0.00 dB
SFO1 400.1332010 MHz
SI 16384
SF 400.1300064 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00