

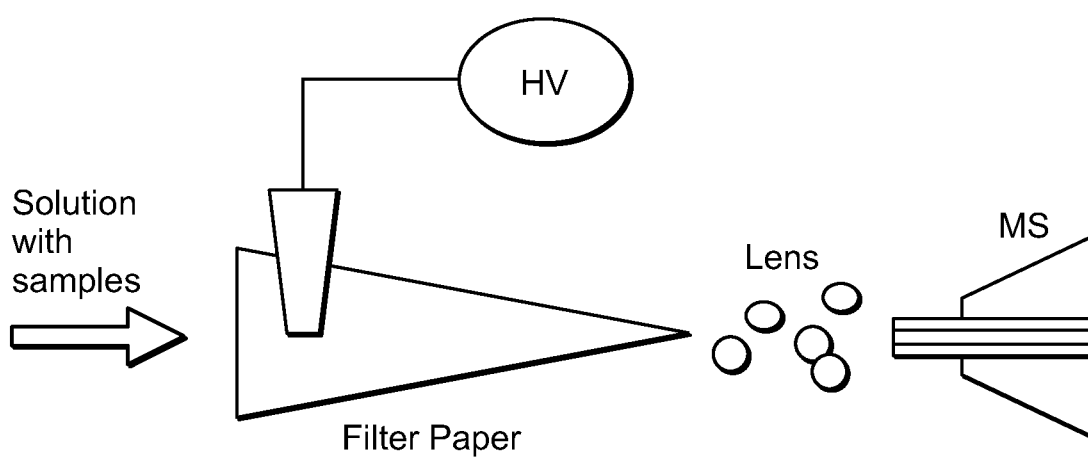


FIG. 1A

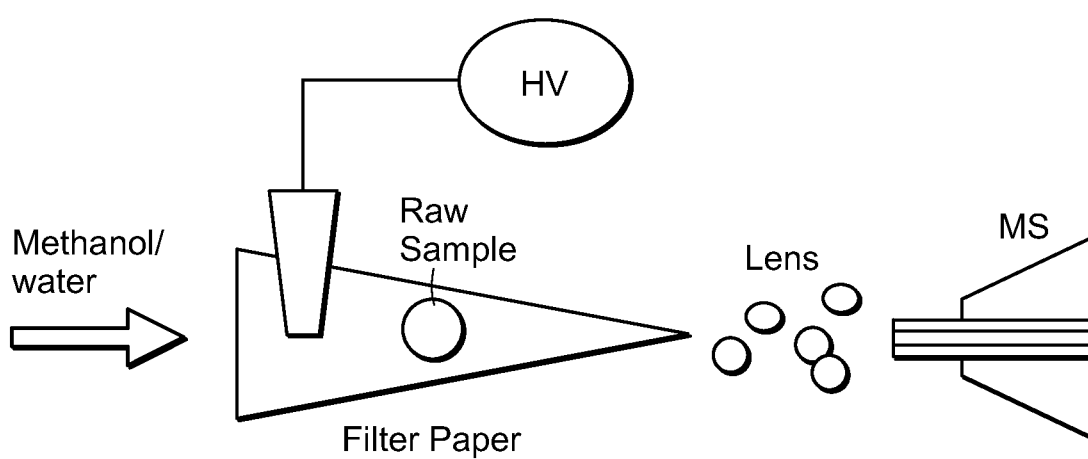


FIG. 1B

03-17-2009_10_heroina 1ppm ms#1-20 RT:0.00-0.08 AV:20 NL:1.08E5
T: ITMS + p NSI Full ms [100.00-400.00]

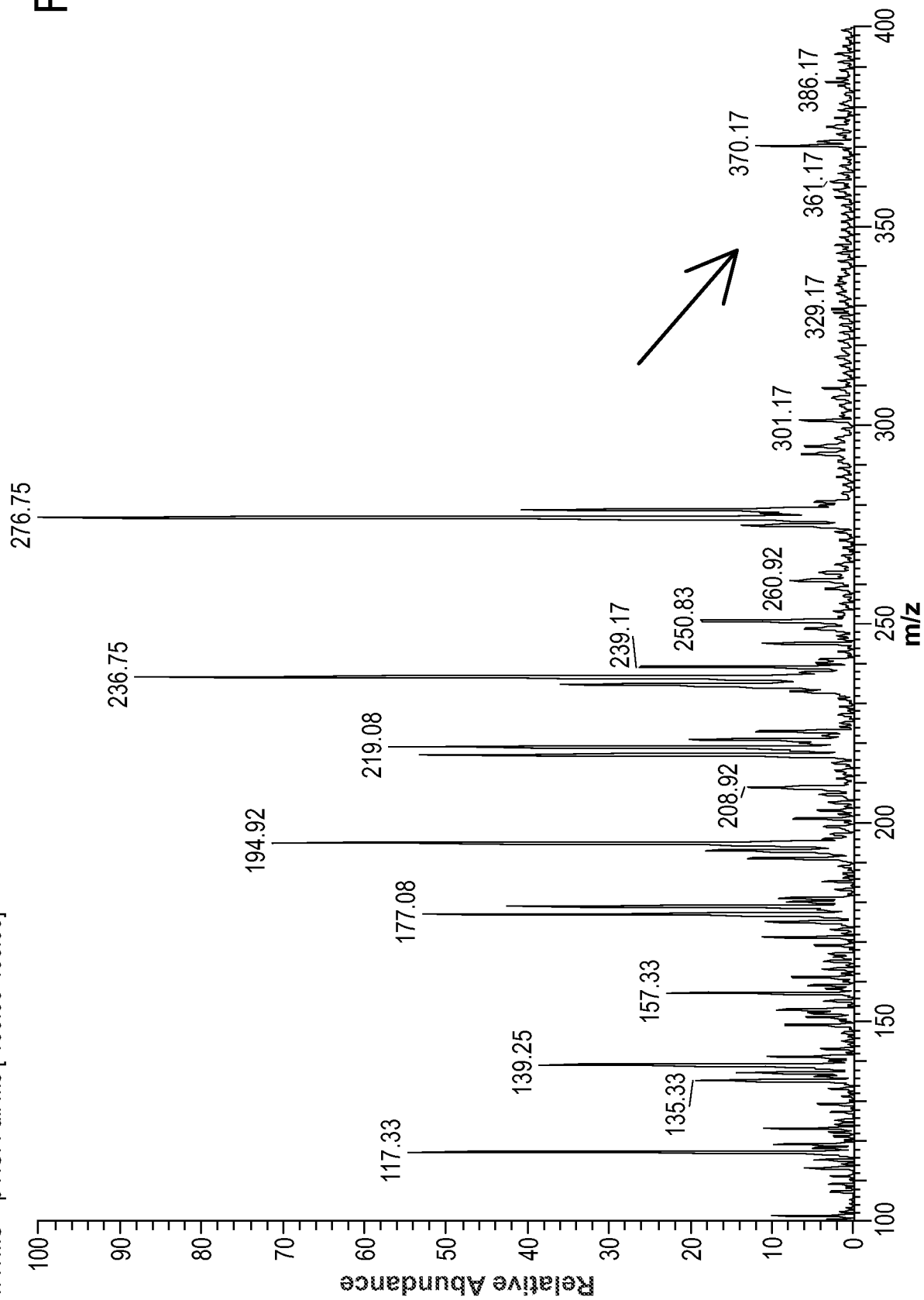
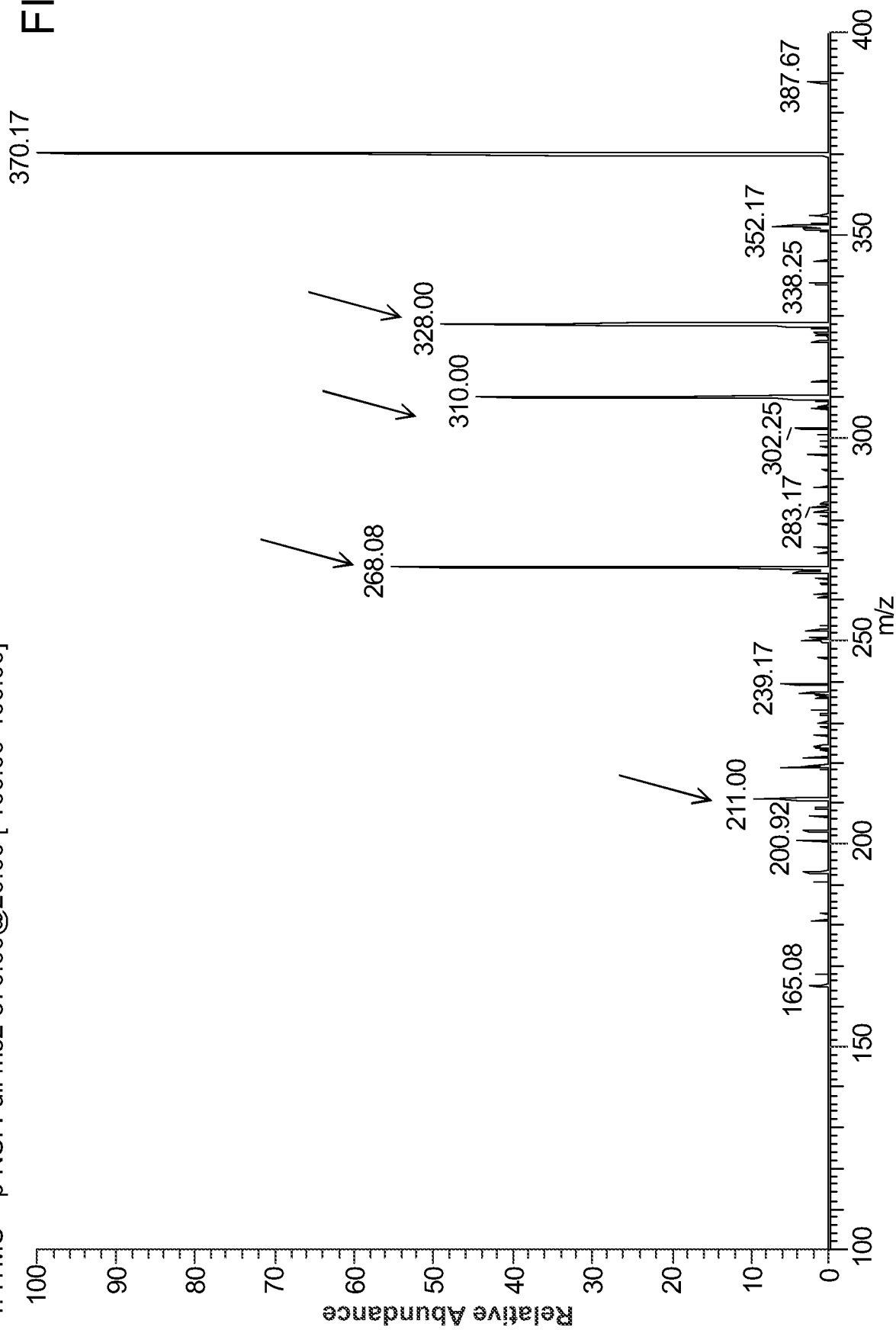


FIG. 2A

03-17-2009_4_heroinine 1ppb msms#1-20 RT:0.00-0.42 AV:20 NL:7.82E-1
T: ITMS + p NSI Full ms2 370.00@20.00 [100.00-400.00]

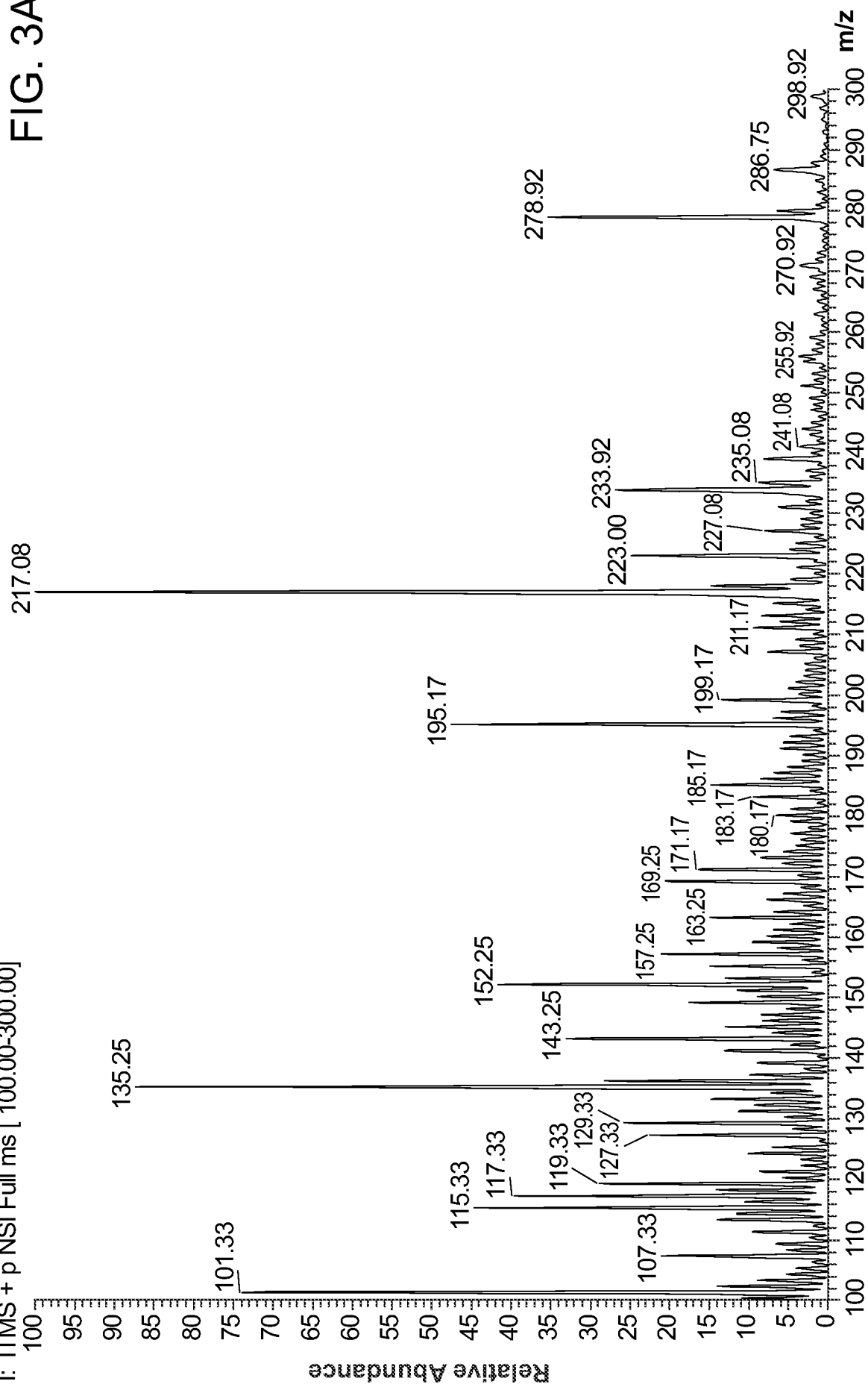


03-17-2009_2_triangle shape paper 2009-3-18 15:52:23

03-17-2009_2_triangle shape paper #2-18 RT:0.00-0.07 AV:17 NL:2.75E4

T: ITMS + p NSI Full ms [100.00-300.00]

FIG. 3A

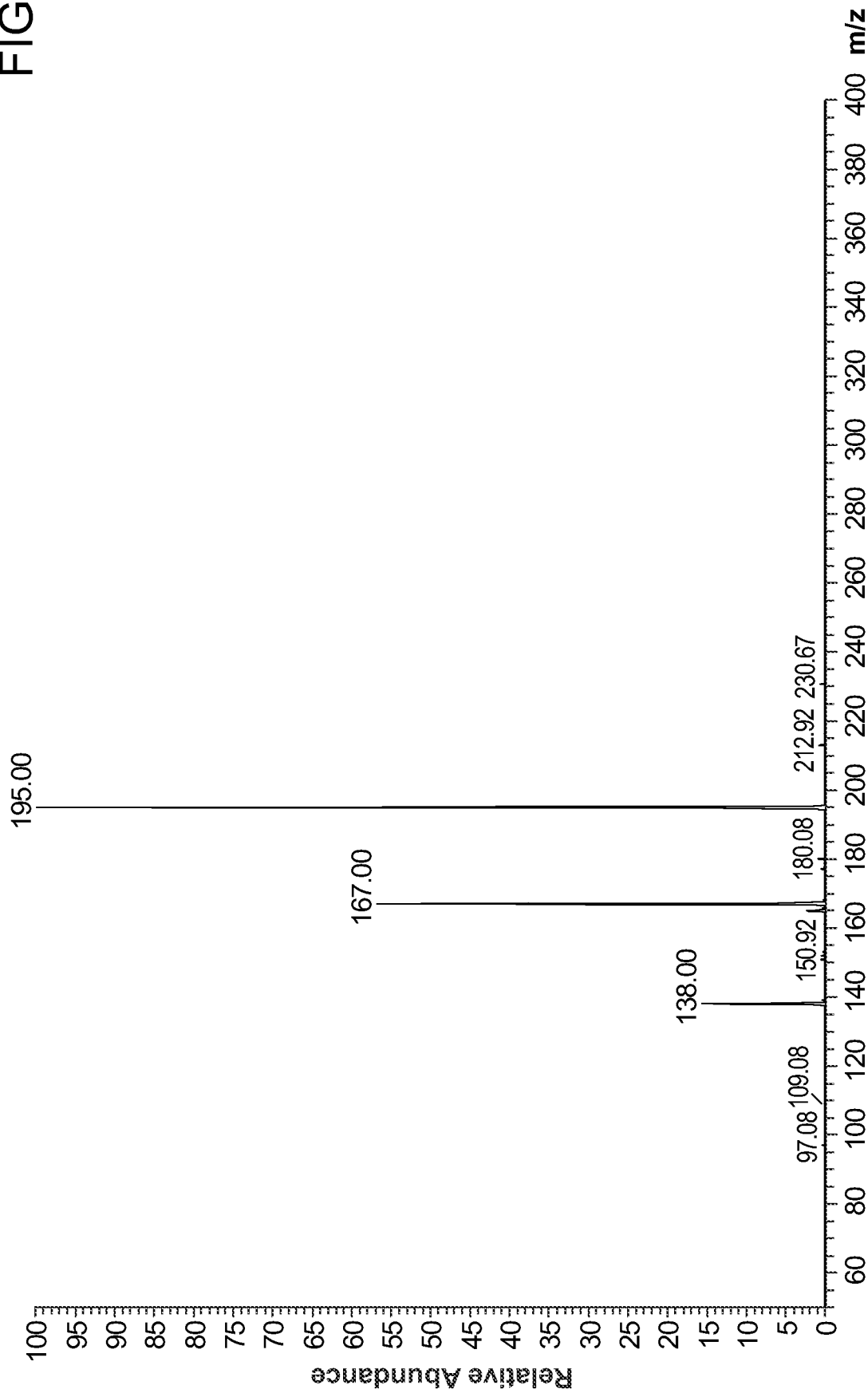


03312009_caffeine_blank.msms_09032817... 2009-3-31 14:15:51

03312009_caffeine_blank.msms_090328172034 #76-101RT:1.02-1.36AV:26NL:6.90

T: ITMS + p NSI Full ms2 195.00@28.00 [50.00-400.00]

FIG. 3B

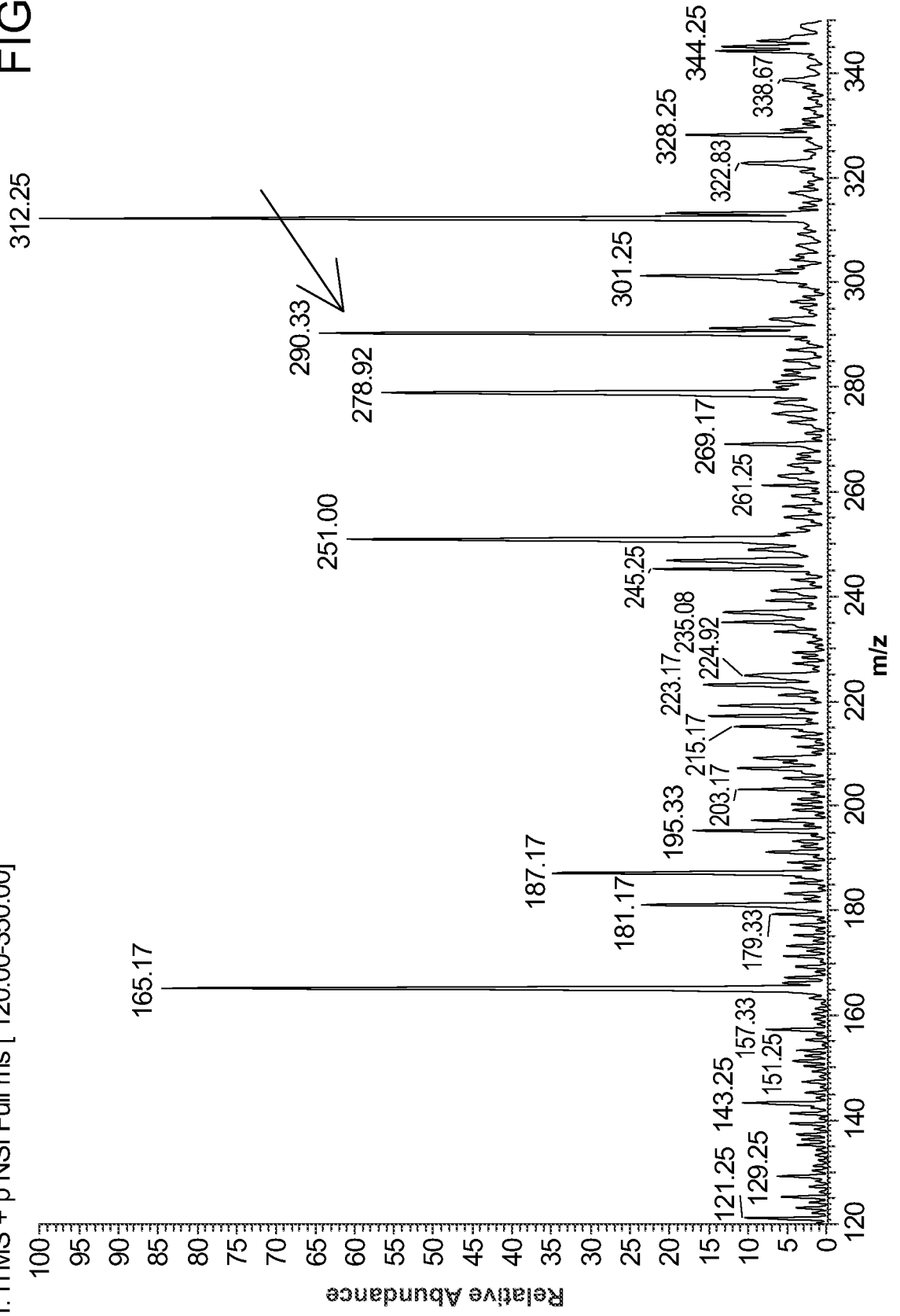


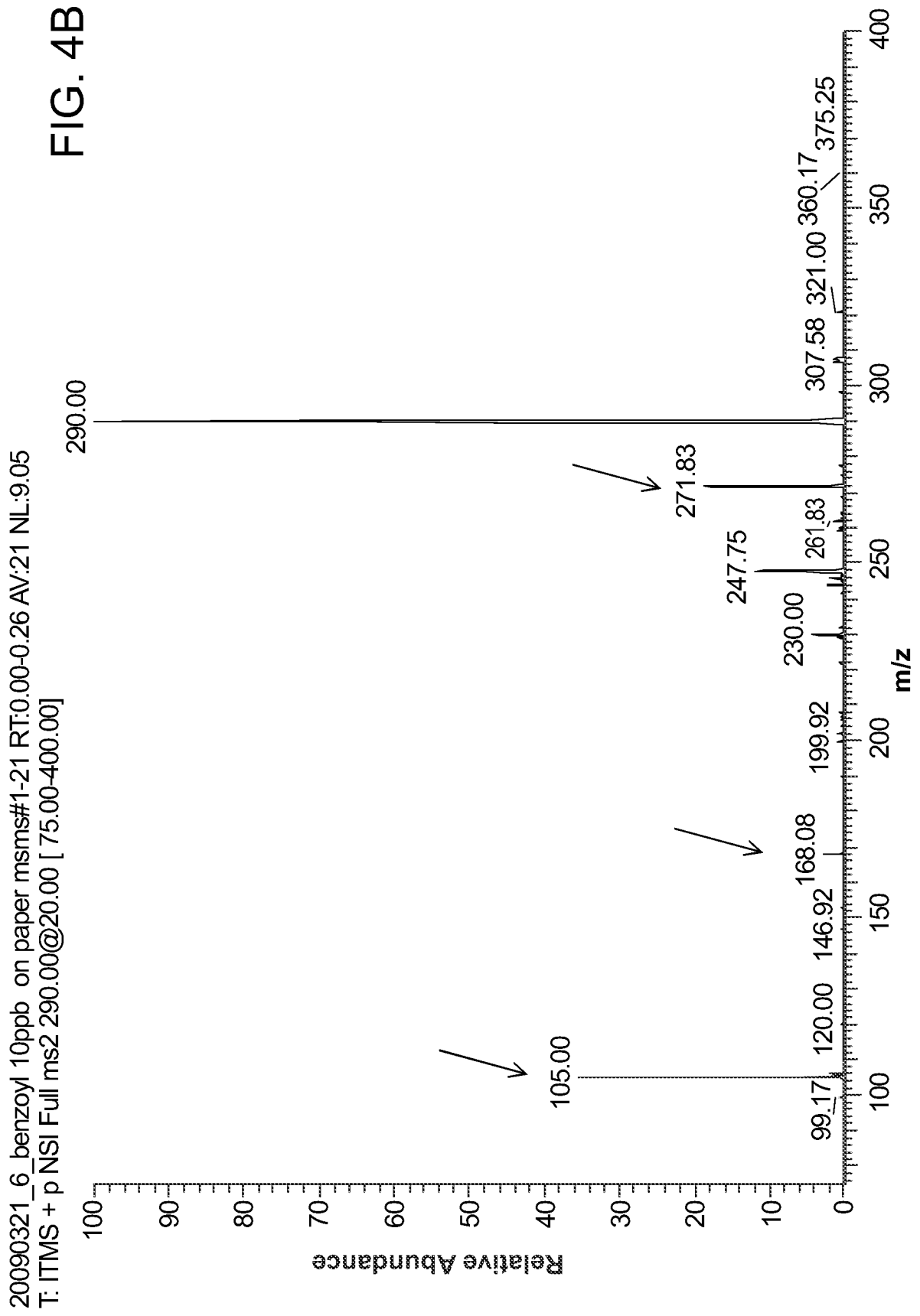
03282009_caffeine BZM time_090328150344 2009-3-28 16:12:51

03282009_caffeine BZM time_090328150344 #1000-1047 RT: 6.52-6.70 AV: 48 NL:7.05E4

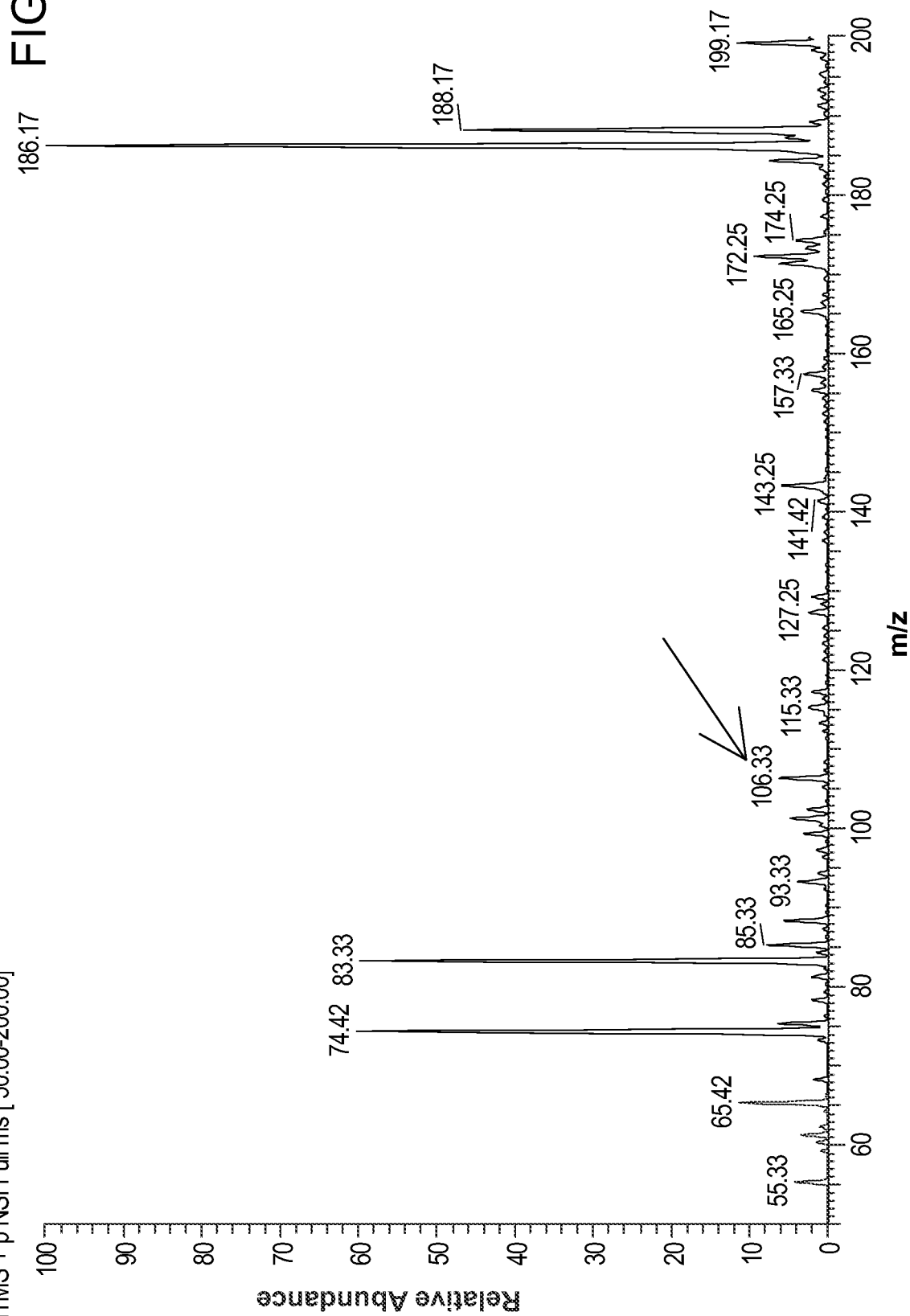
T: ITMS + p NSI Full ms [120.00-350.00]

FIG. 4A





20090331_6_serine 1ppm paper ESI4500V_090331195913 #29-36 RT: 0.10-0.12 AV:8 NL:1.29E5
T: ITMS + p NSI Full ms [50.00-200.00]



20090331_4_serine 100ppb paperESI4500V#70-89 RT: 0.32-0.41 AV:20 NL:2.46
T: ITMS + p NSI Full ms2 106.30@23.00 [50.00-300.00]

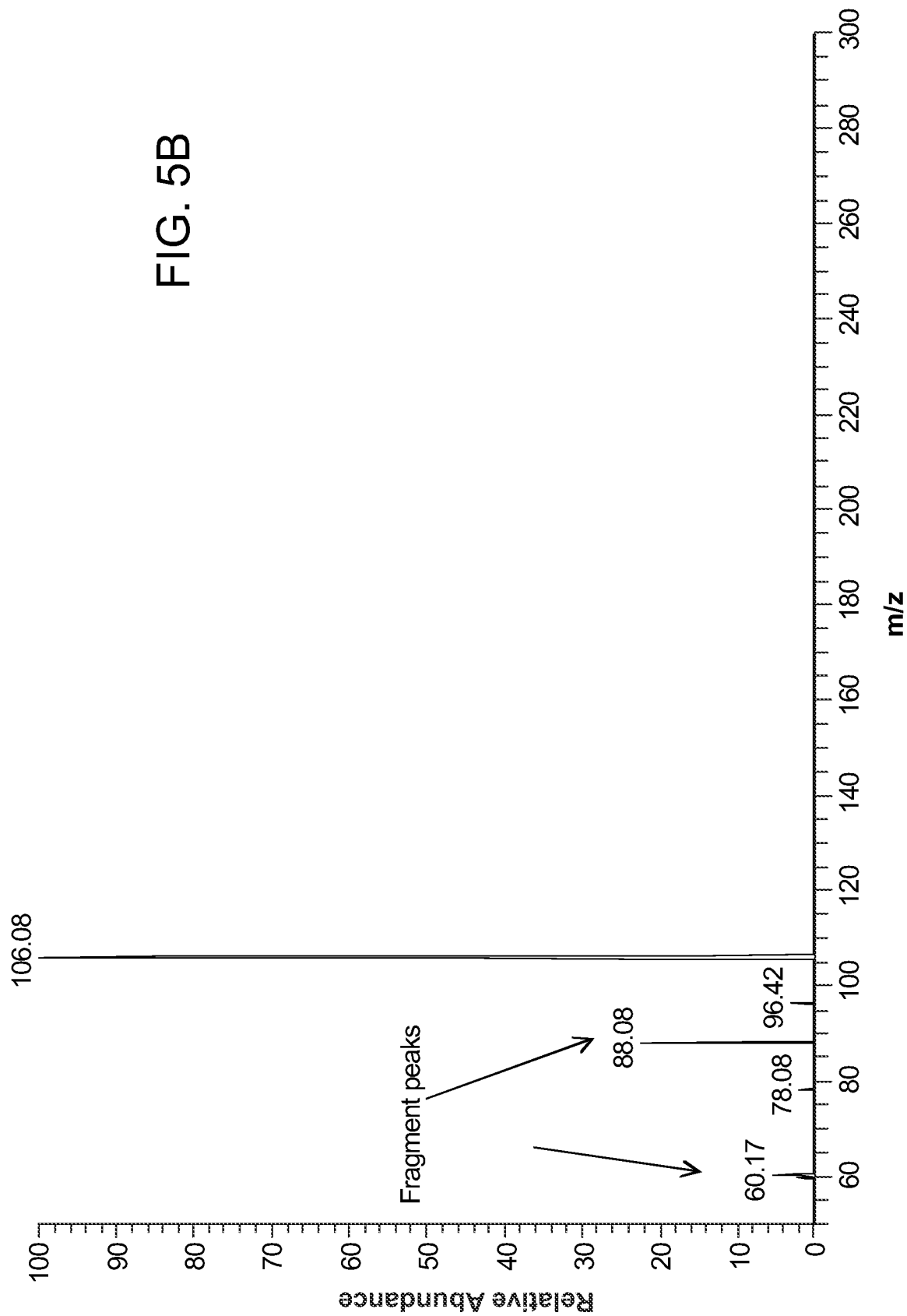
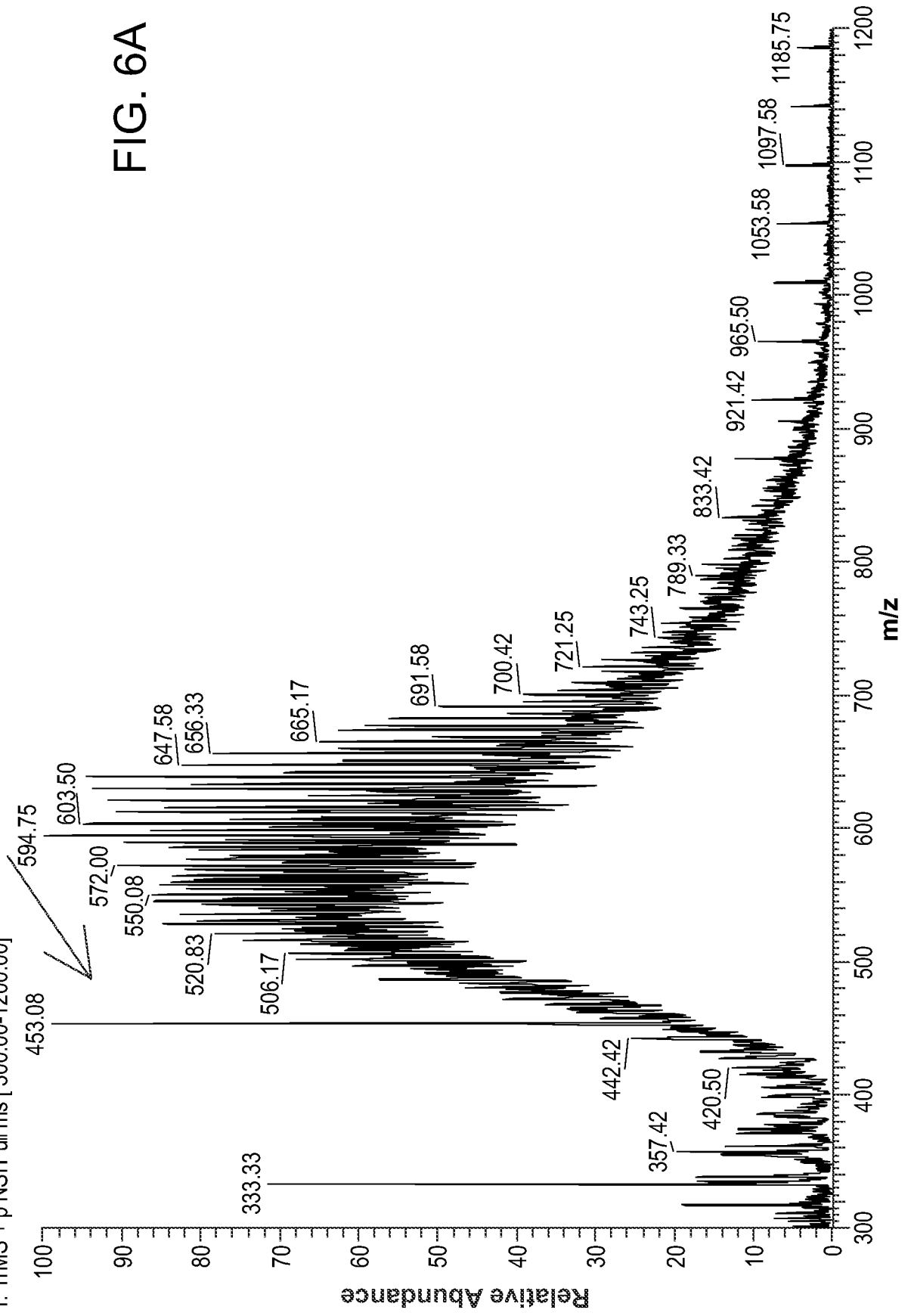


FIG. 5B

20090324 bk2-9 10ppm in solution paperESImsms 3200V_090324185639ok #165-175 RT: 2.04-2.13 AV: 11 NL: 2.64E4
T: ITMS + p NSI Full ms [300.00-1200.00]



1ppm peptide paper msms ok 2.8kv #29-35 RT: 0.41-0.51 AV: 7 NL: 1.12E2
T: ITMS + p NSI Full ms2 453.00@41.00 [120.00-1200.00]

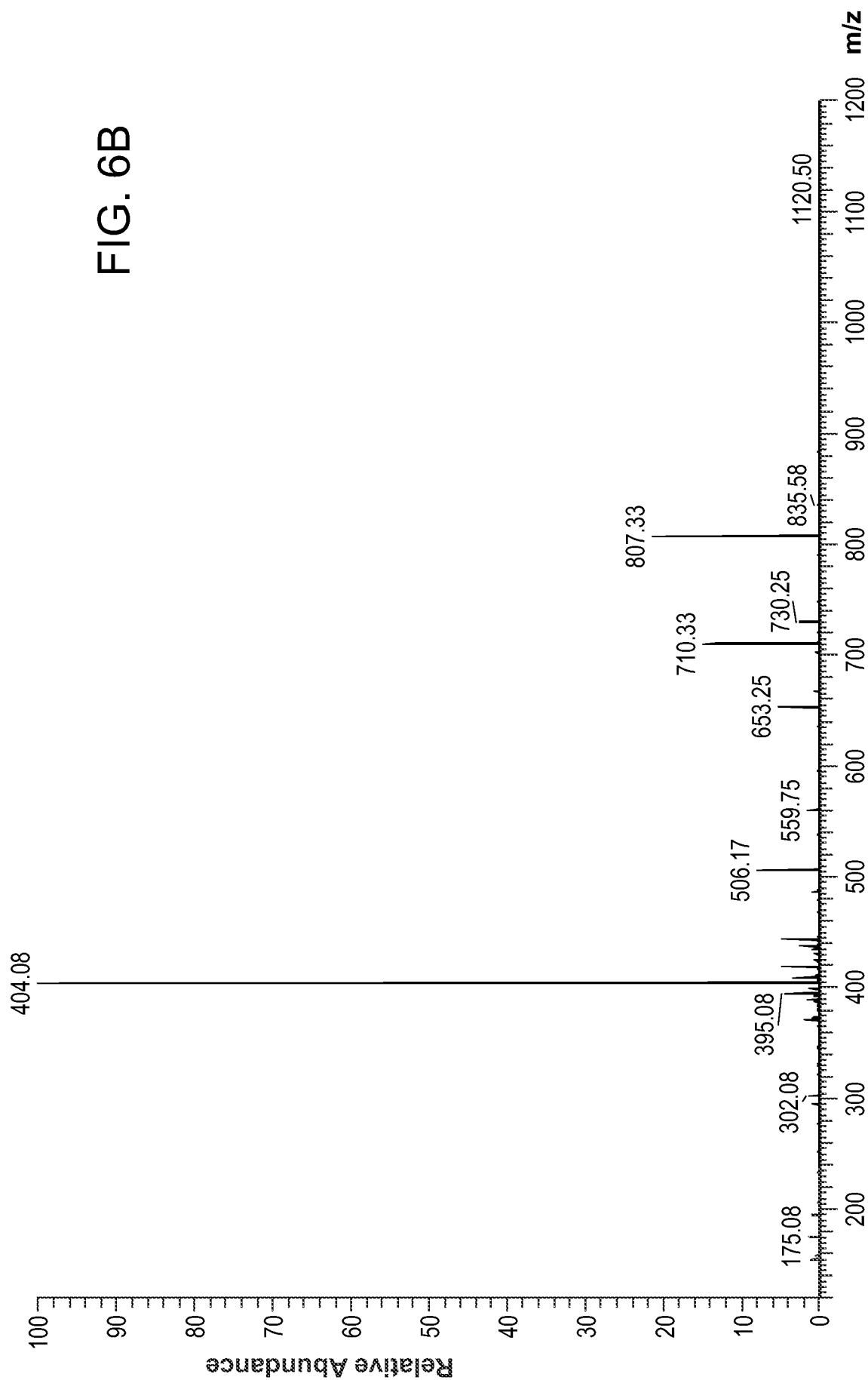


FIG. 6B

(2) 040509_heroinine blood spot 200ppb 400nl 8 ul solvent ok#36-101 RT: 0.25-0.98 AV:66 NL:2.77E-1
T: FTMS + c NSI Full ms2 370.00@25.00 [100.00-400.00]

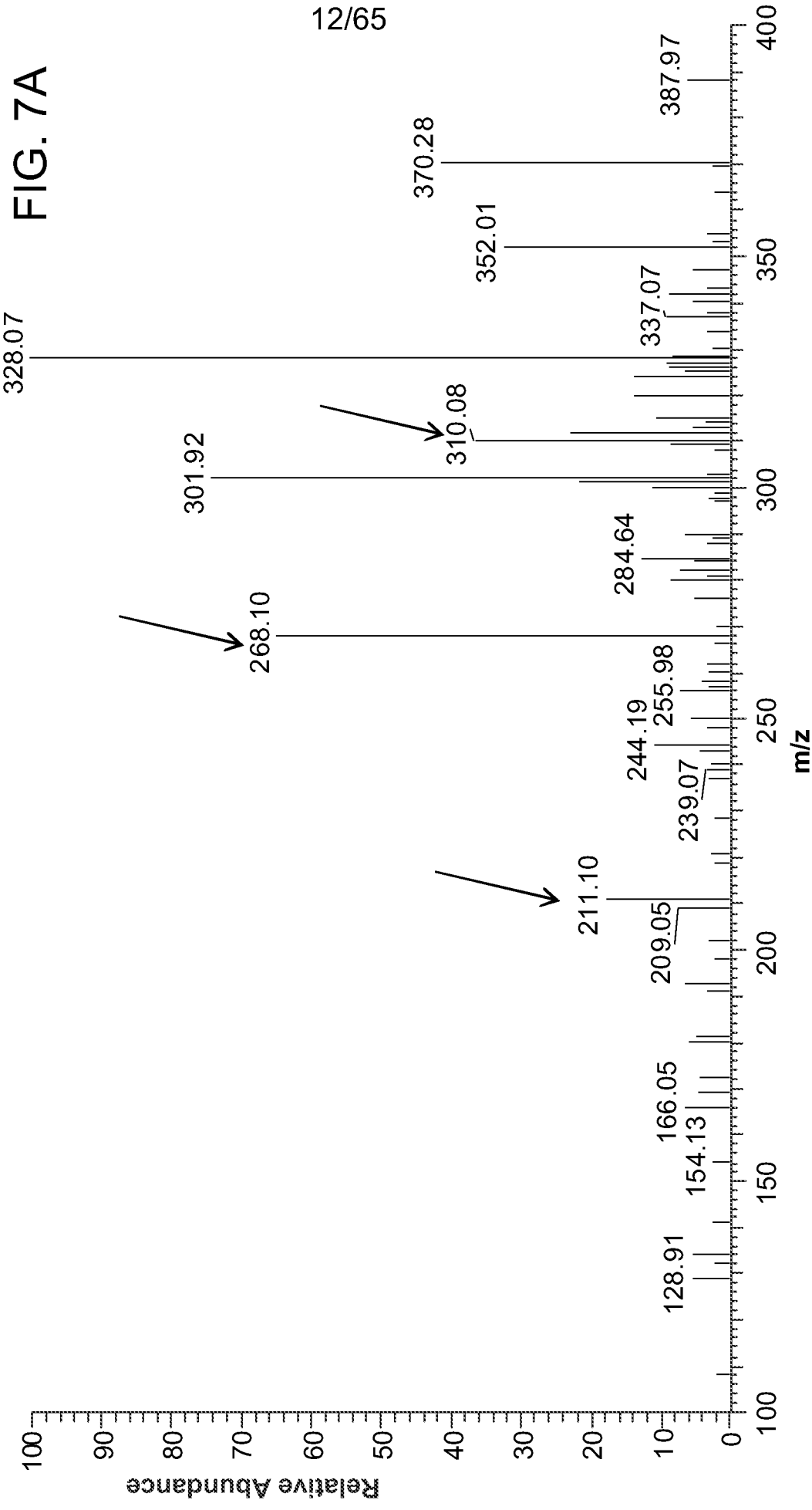


FIG. 7B

(1) 040509_heroine blood 20ppm 8 ulok #53-61 RT: 0.24-0.33 AV: 9 NL: 8.45E-2
T: ITMS + p NSI Full ms2 370.00@25.00 [100.00-400.00]

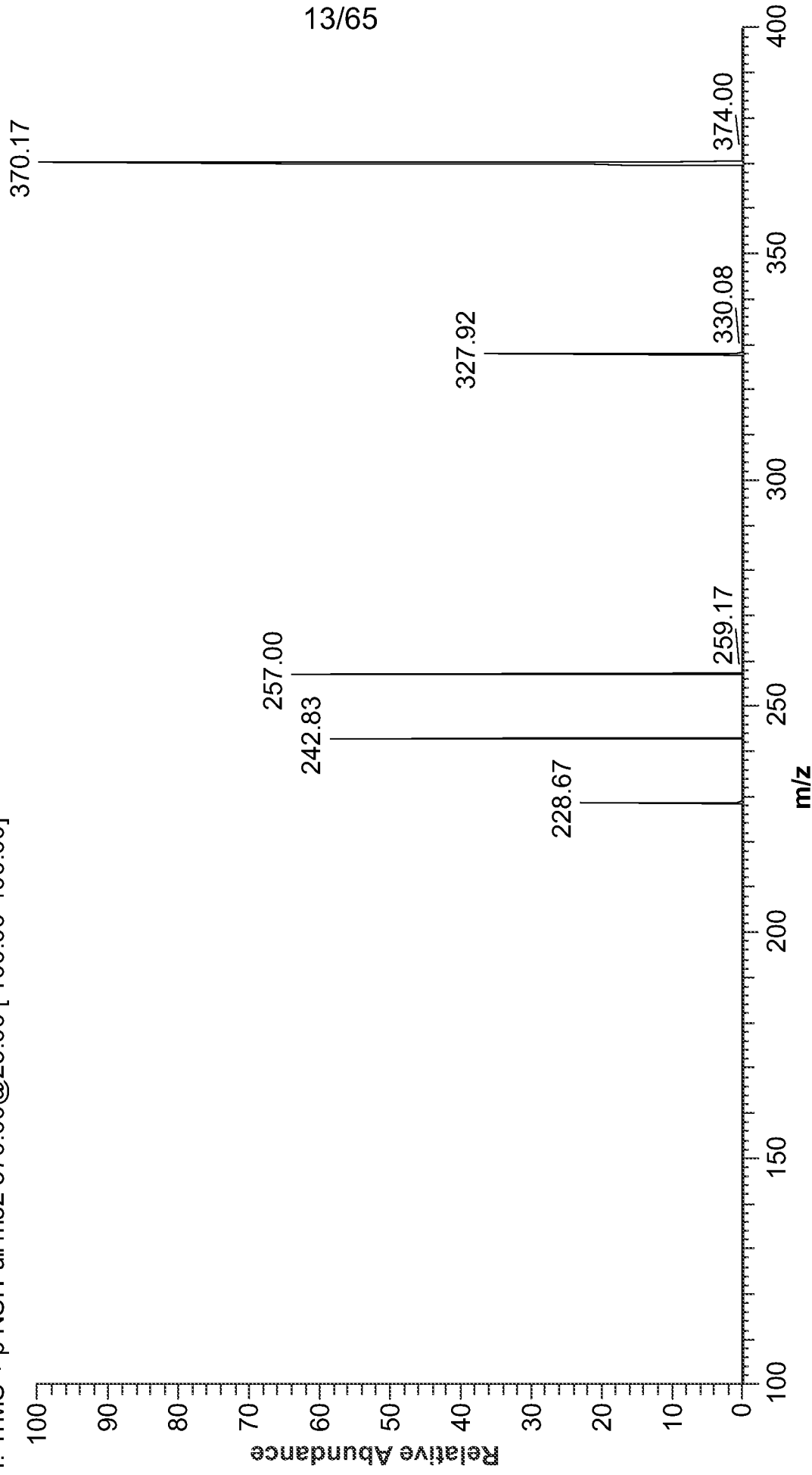


FIG. 8A

20090321_11_100ppb heroin 400nl spot with 10ul solution #1-20 RT: 0.00-0.25 AV: 20 NL: 3.19E1
T: ITMS + p NSI Full ms2 370.00@20.00 [100.00-400.00]

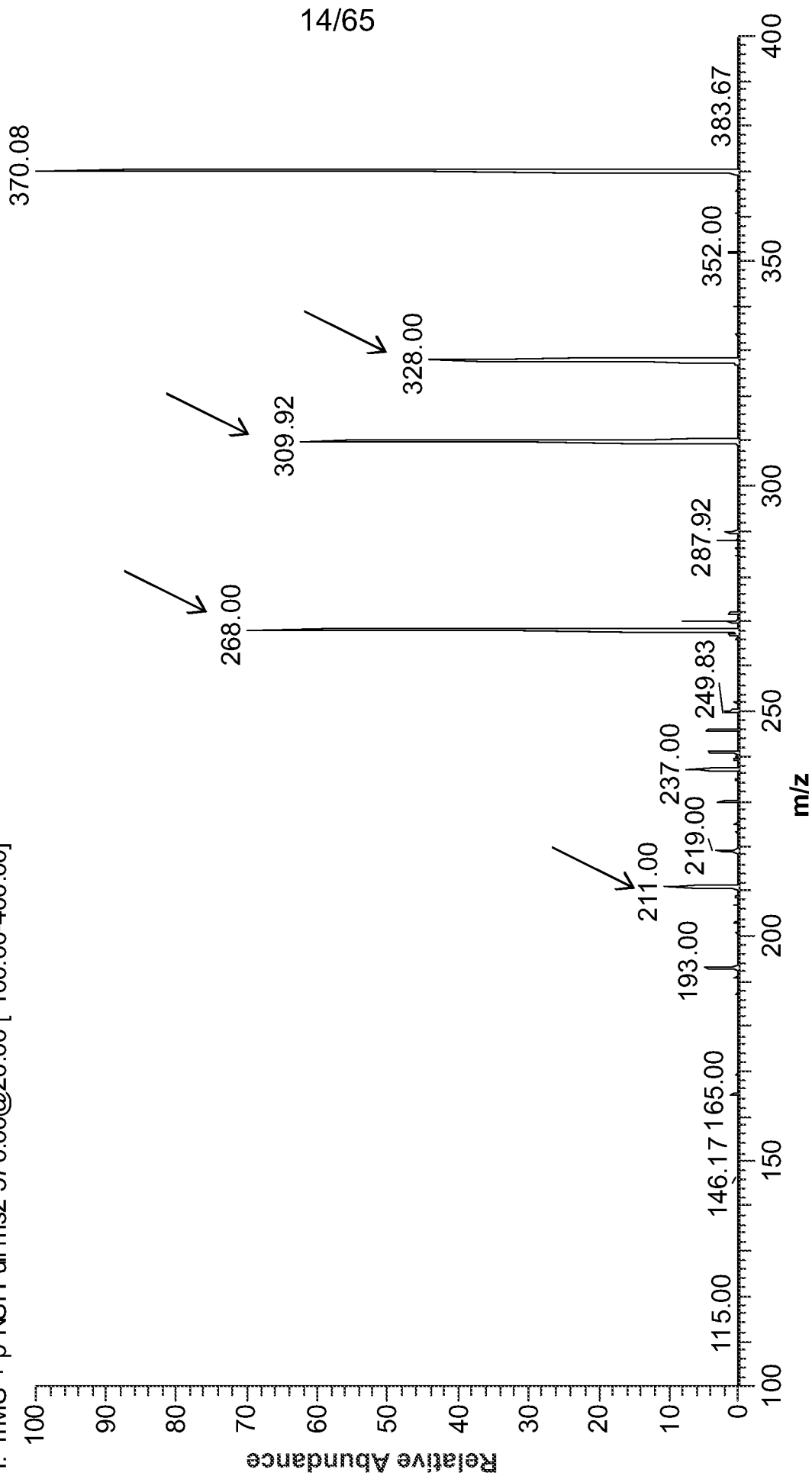


FIG. 8B

20090321_10_100ppb heroin in urine msms #1-20 RT: 0.00-0.25 AV: 20 NL: 1.87E-1
T: ITMS + p NSI Full ms2 370.00@20.00 [100.00-400.00]

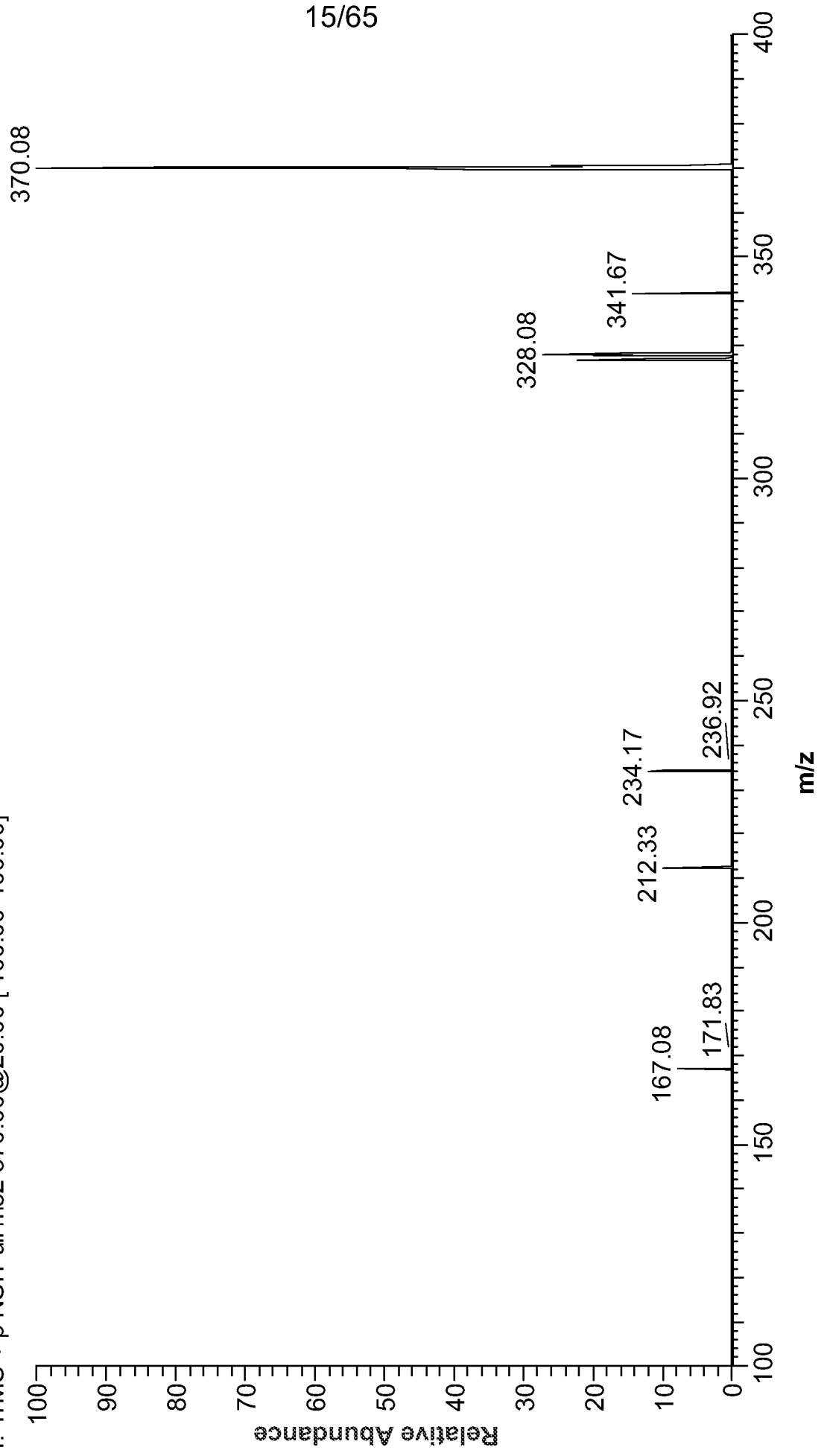
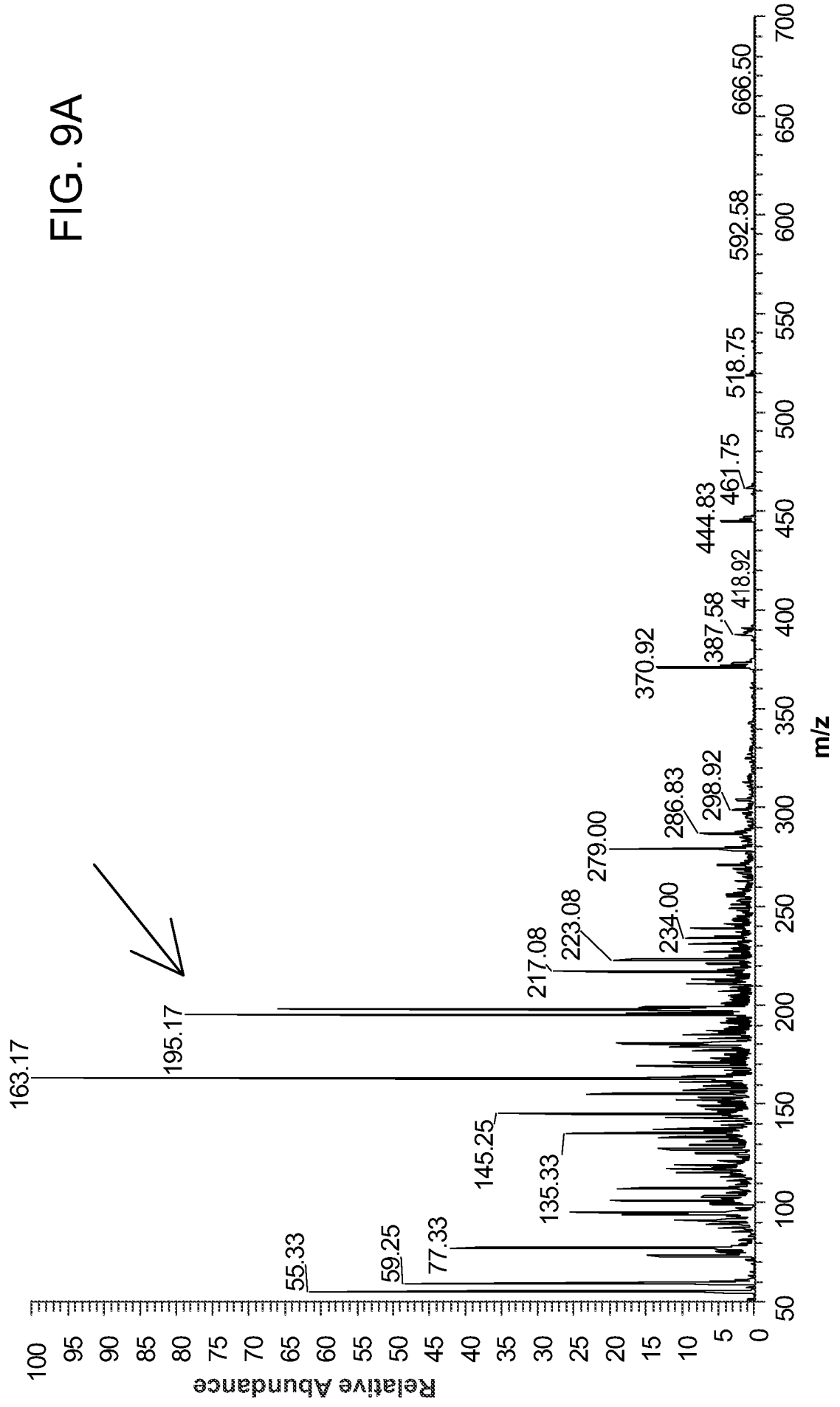
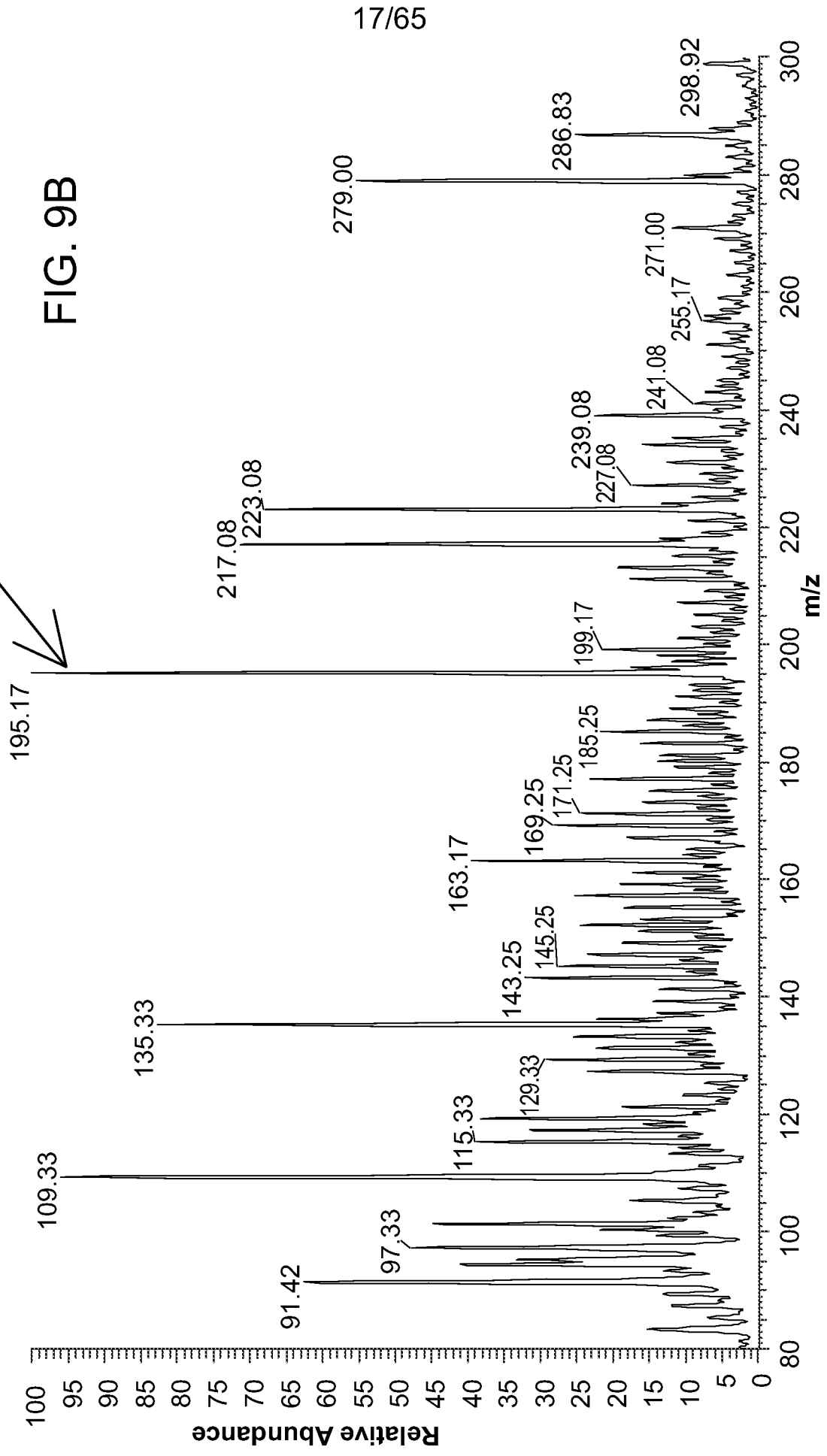


FIG. 9A

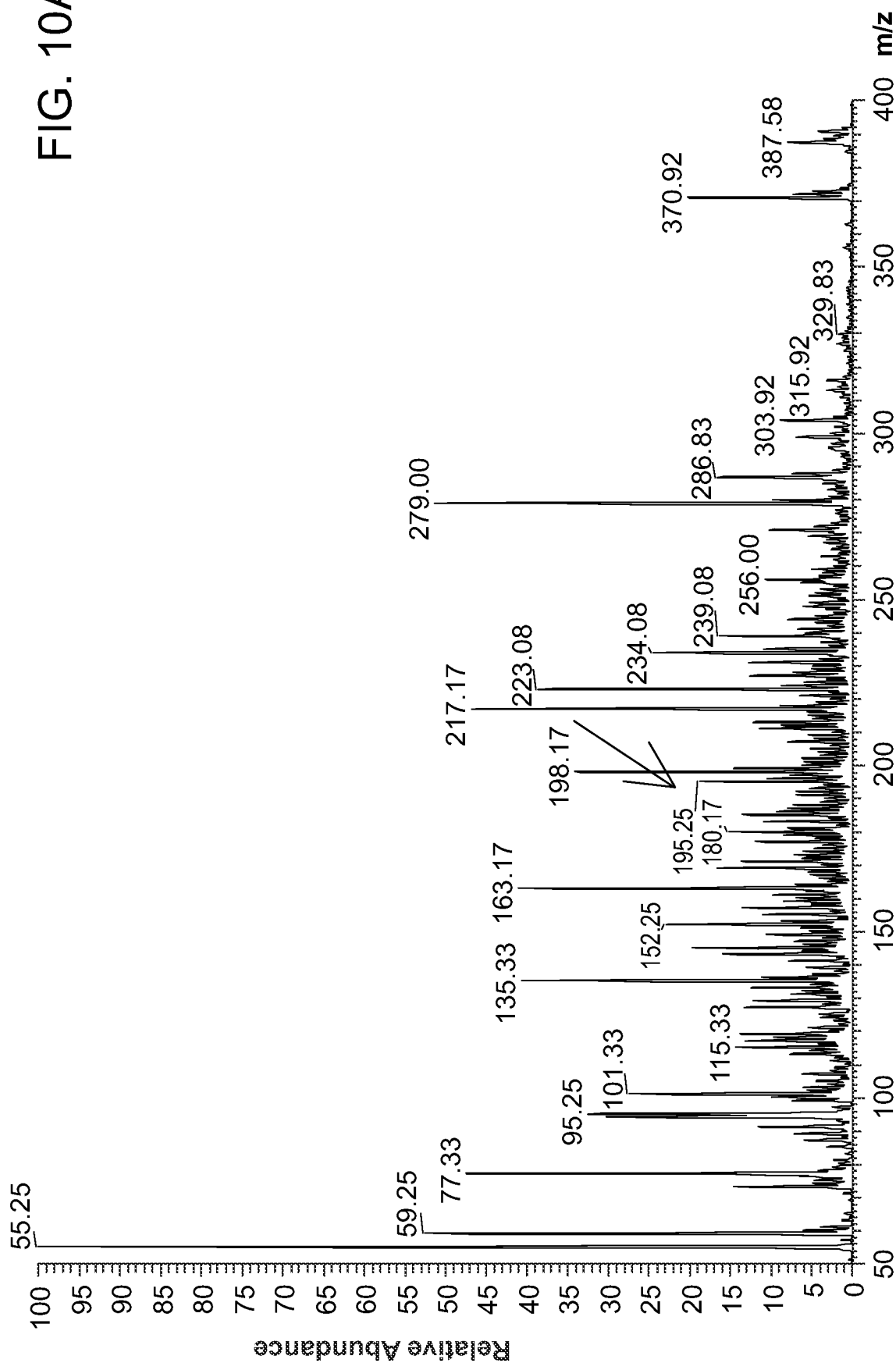
3_15 pepsi sample #1-20 RT: 0.00-0.12 AV:20 NL:7.41E3
T: ITMS + p NSI Full ms [50.00-700.00]



filter paper swap caffe bag#1-20RT:0.00-0.10 AV:20NL:3.33E3
T: ITMS + p NSI Full ms [80.00-300.00]

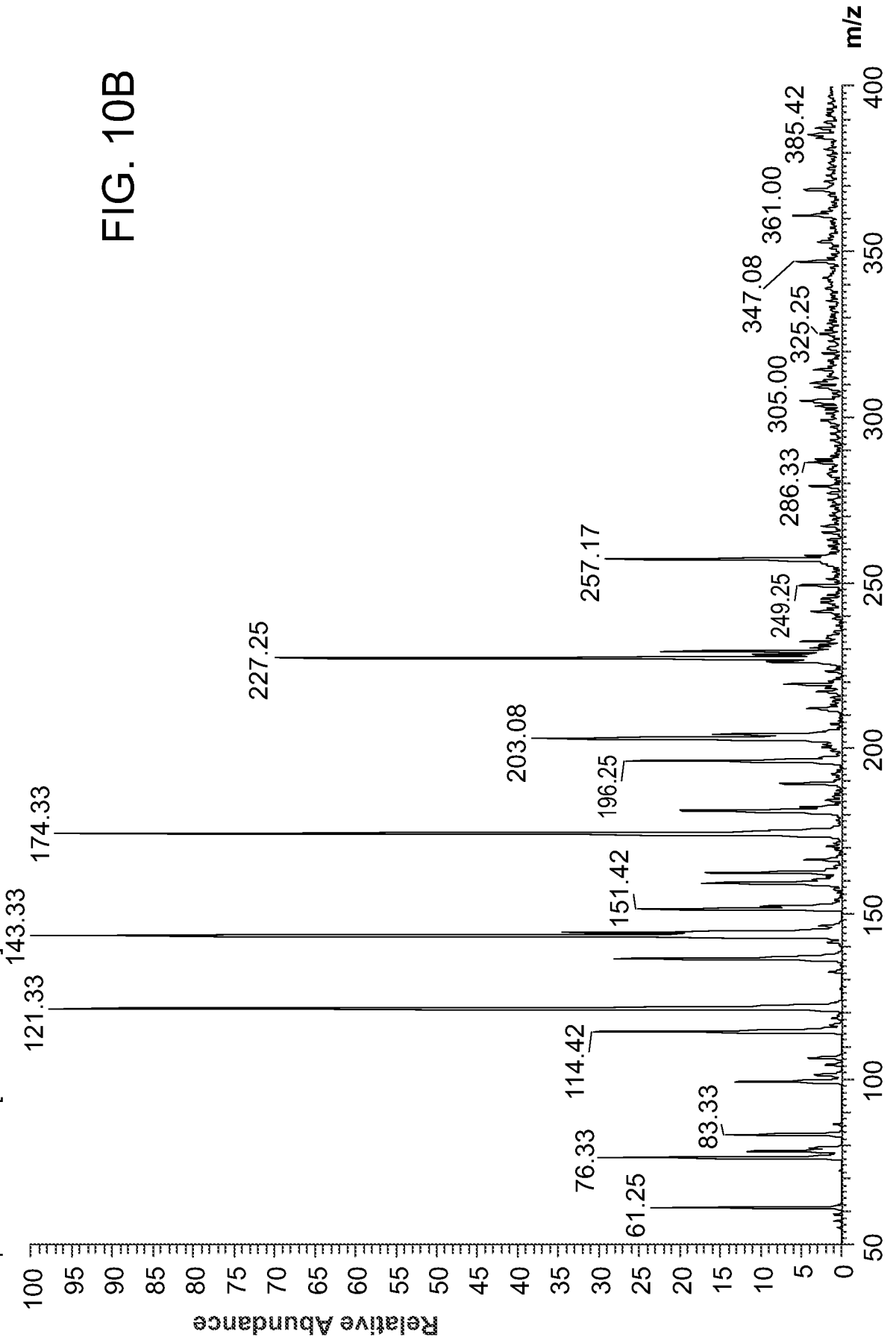


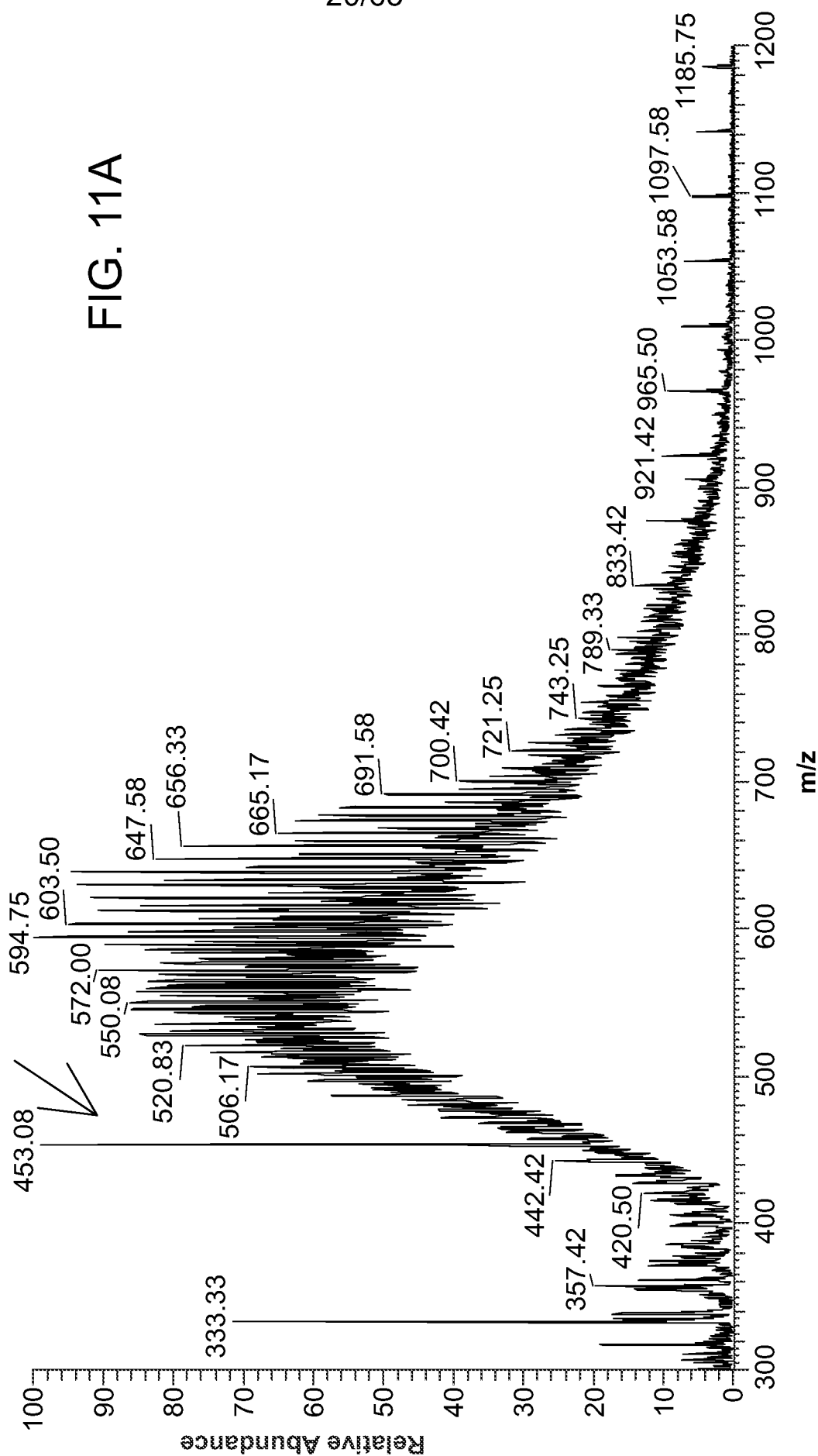
3_15 Jiang's urine with caffeine_090315163358 #1-20RT:0.00-0.17 AV:20NL:1.48E3
T: ITMS + p NSI Full ms [50.00-400.00]



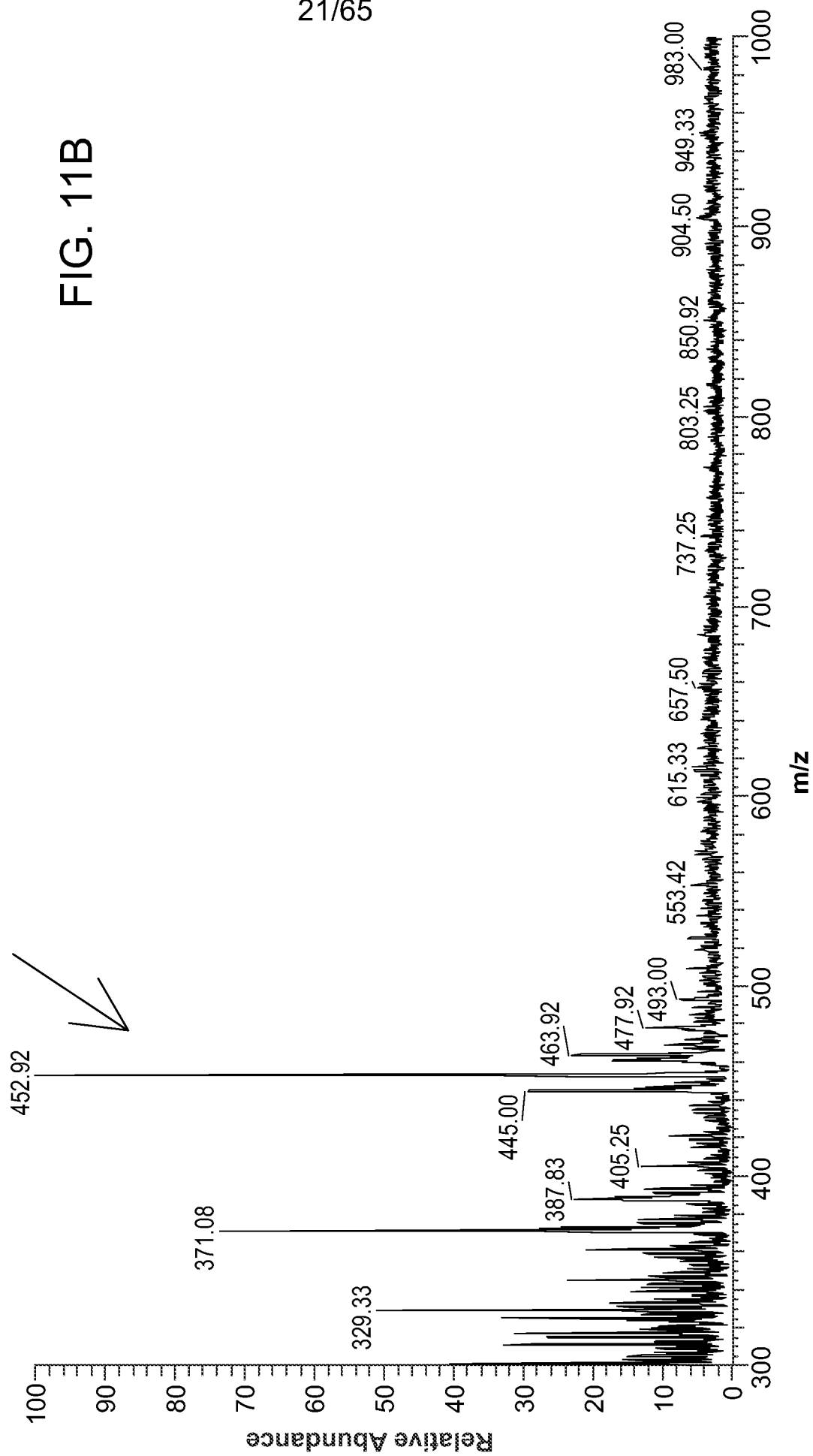
3_15 He's urine without caffeine_090315163358 #1-20 RT: 0.00-0.09 AV:20 NL:1.76E4

T: ITMS + p NSI Full ms [50.00-400.00]





03312009_peptide_100ppm yellow filetr_090331183121 #153-173 RT: 0.30-0.34 AV: 21 NL: 6.57E3
T: ITMS + p NSI Full ms [300.00-1000.00]



F:\????\leaf2 4 _090404171049 2009-4-4 17:22:01

leaf2 4 _090404171049 #538 RT: 0.02-0.22 AV: 34 NL: 1.20E4

T:ITMS + p NSI Full ms [100.00-500.00]

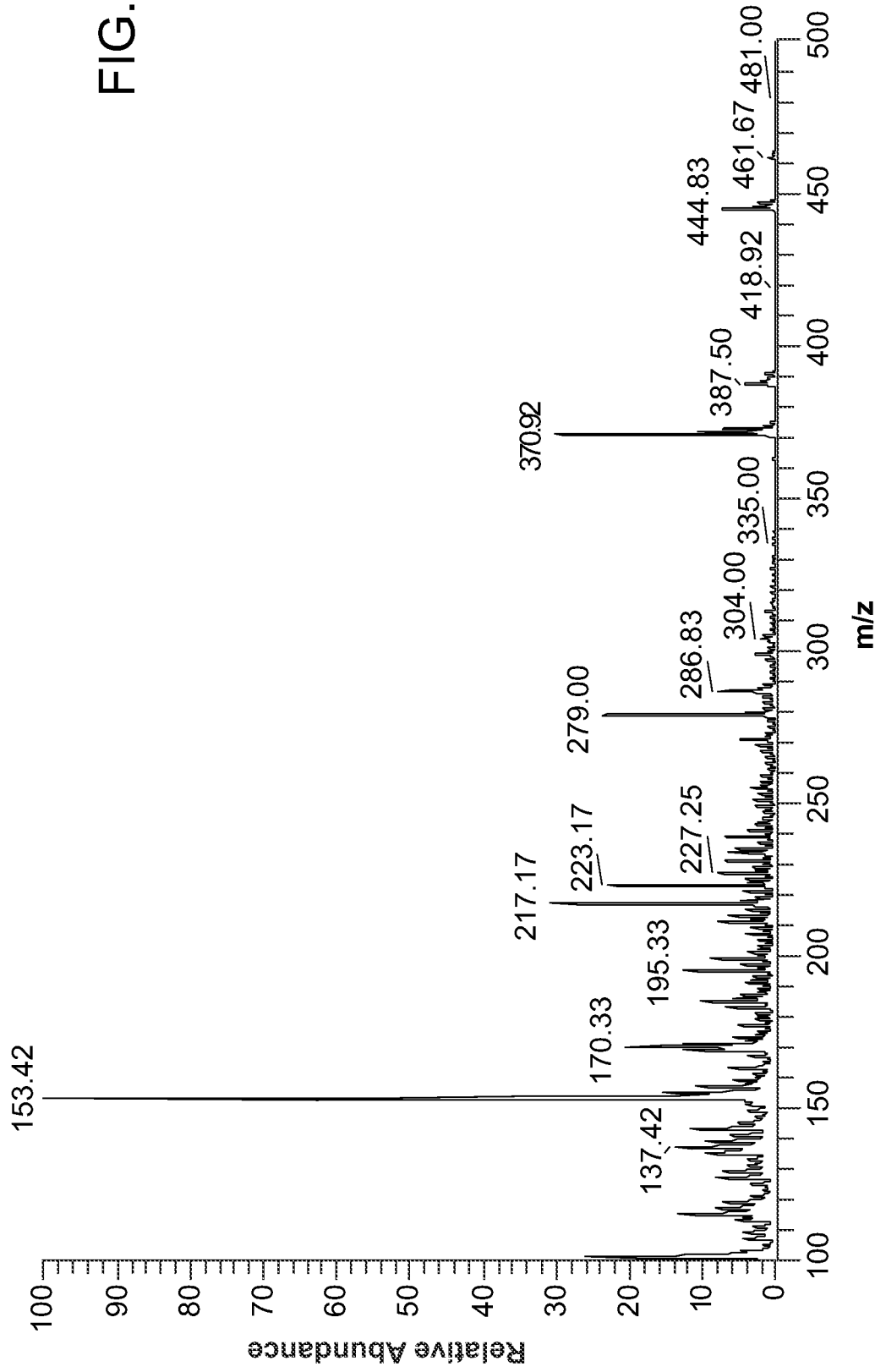
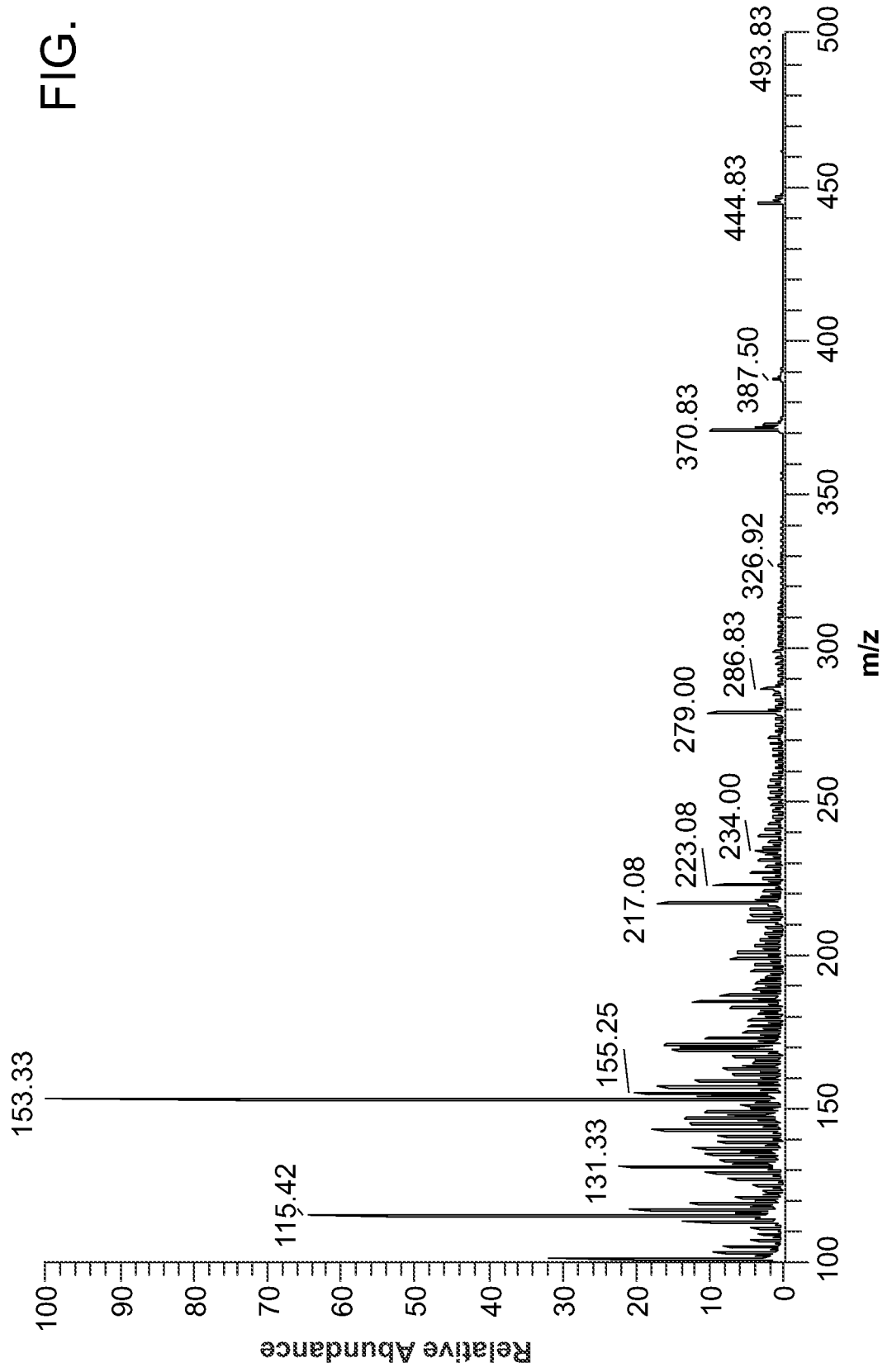


FIG. 12A

F:\????\leaf 6kV_09 0404171049 2009-4-4 17:17:57

leaf 6kV_090404171049 #2-17 RT: 0.01-0.08 AV: 16 NL:2.45E4

T: ITMS + p NSI Full ms [100.00-500.00]

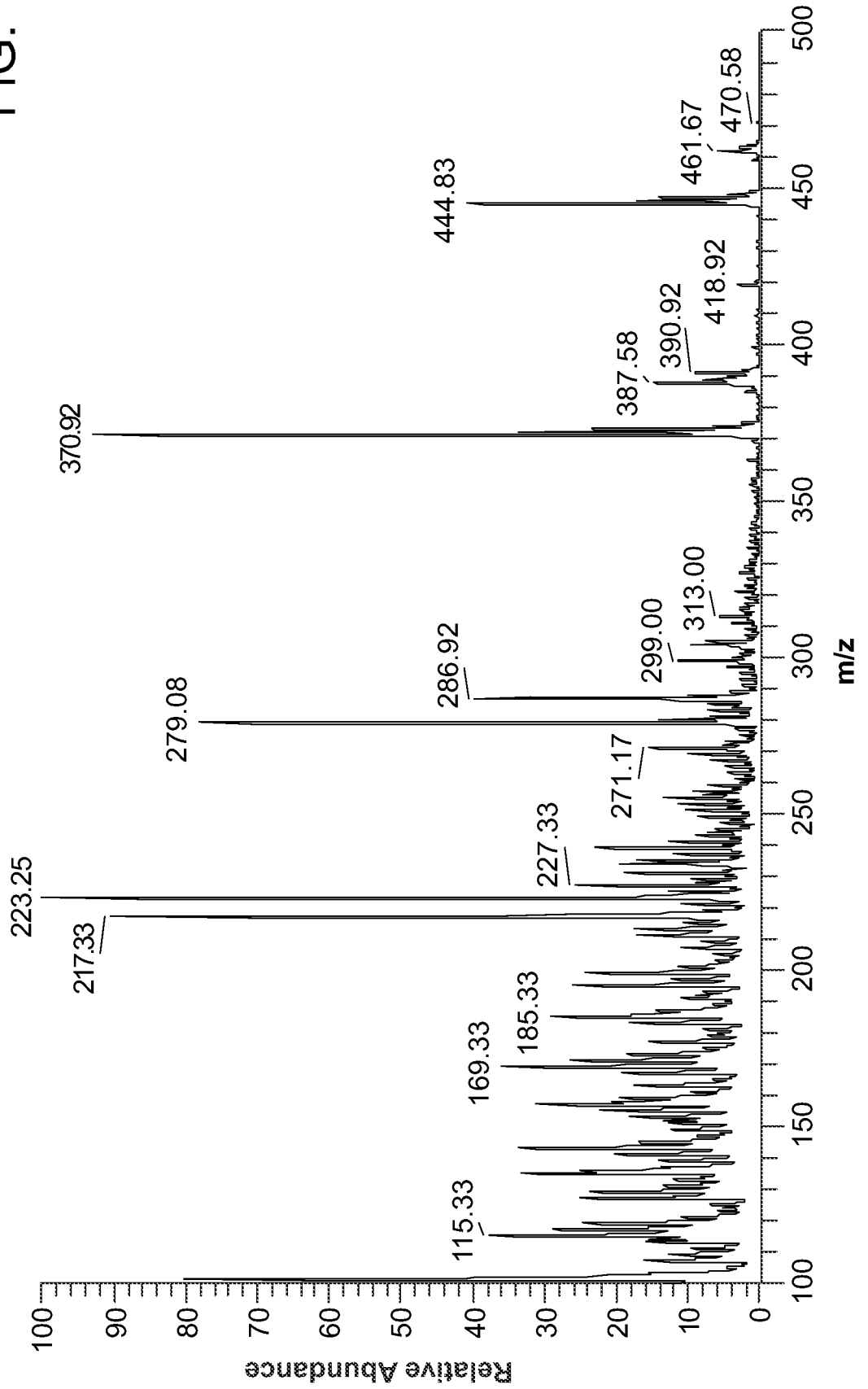


20090404_JJ_green onion_090402194656 2009-4-4 14:29:37

20090404_JJ_green onion_090402194656 #1-17 RT: 0.00-0.11 AV: 17 NL: 3.59E3

T: ITMS + p NSI Full ms [100.00-500.00]

FIG. 12C

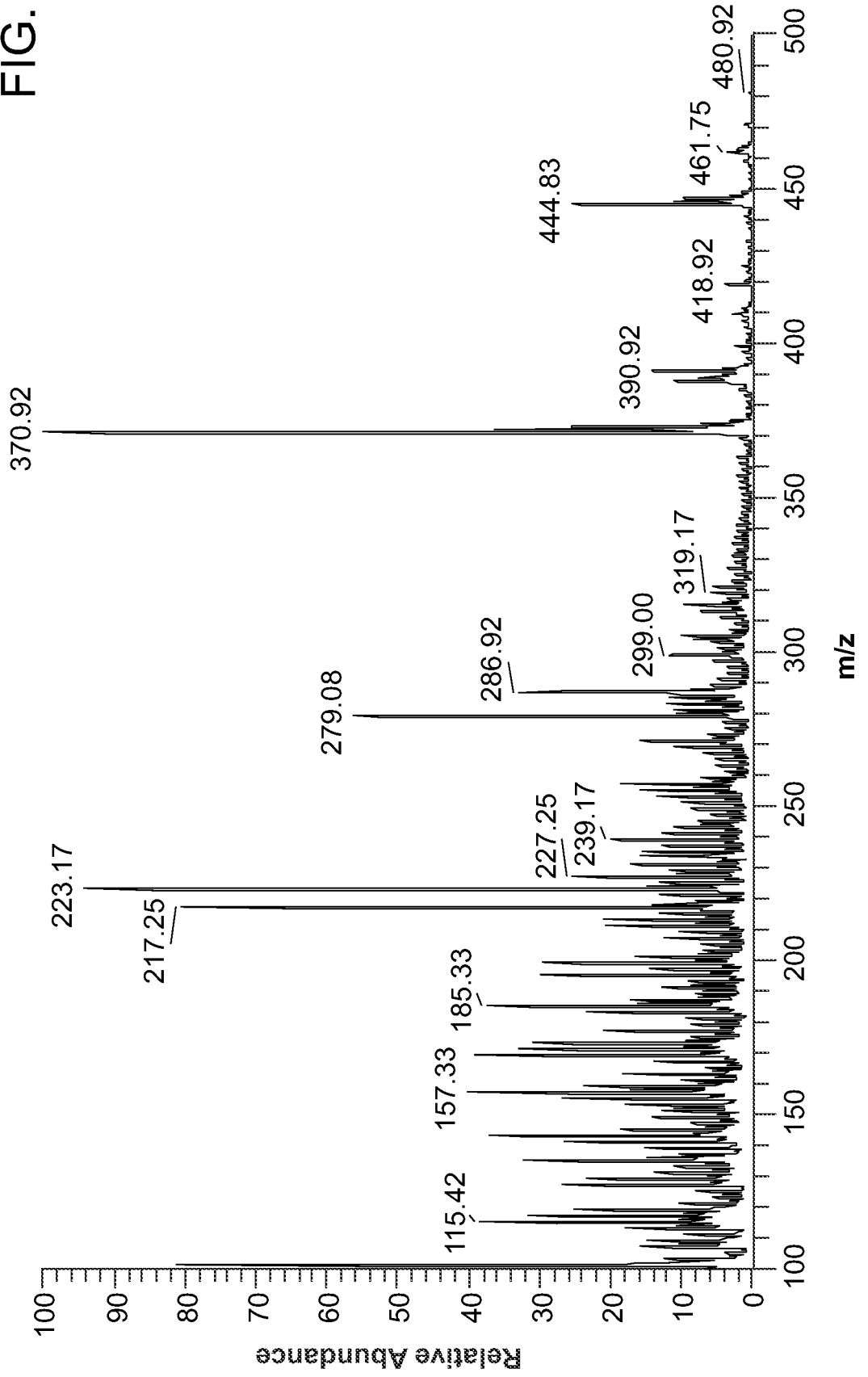


20090404_JJ_onion_090402194656 2009-4-4 14:31:39

20090404_JJ_onion_090402194656 #2-29 RT: 0.01-0.15 AV: 28 NL: 5.87E3

T:ITMS + p NSI Full ms [100.00-500.00]

FIG. 12D



20090404_green onion 177.ms 2009-4-4 15:14:00

20090404_green onion 177.ms.ms #1-4 RT: 0.00-0.04 AV: 4 NL: 1.32E1

T: TMS + p NSI Full ms2 177.30@25.00 [50.00-300.00]

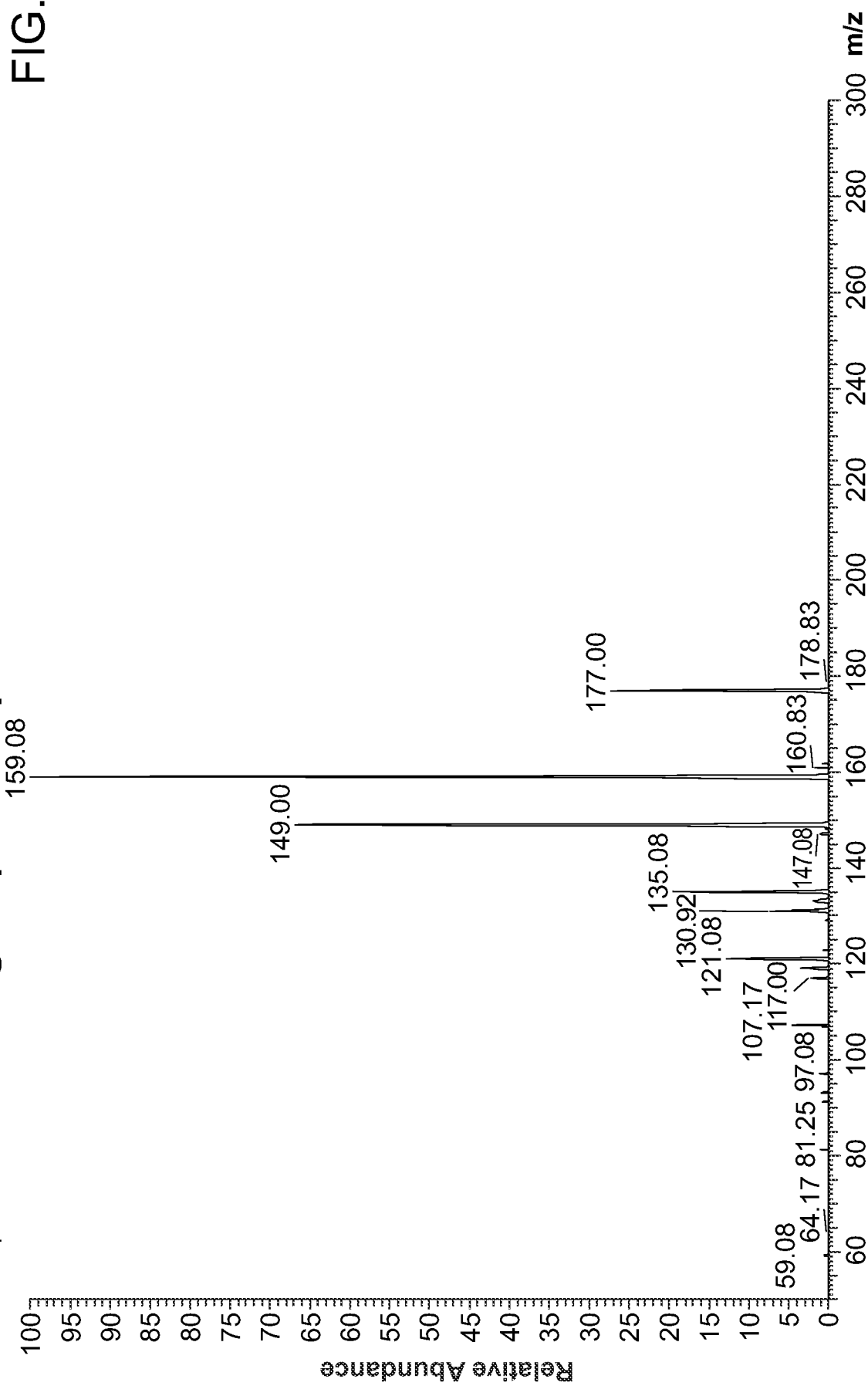


FIG. 13A

20090411_150ppb vc ok #63-91 RT: 0.36-0.74 AV: 29 NL: 1.88
T: ITMS + p NSI Full ms2 177.00@25.00 [50.00-300.00]

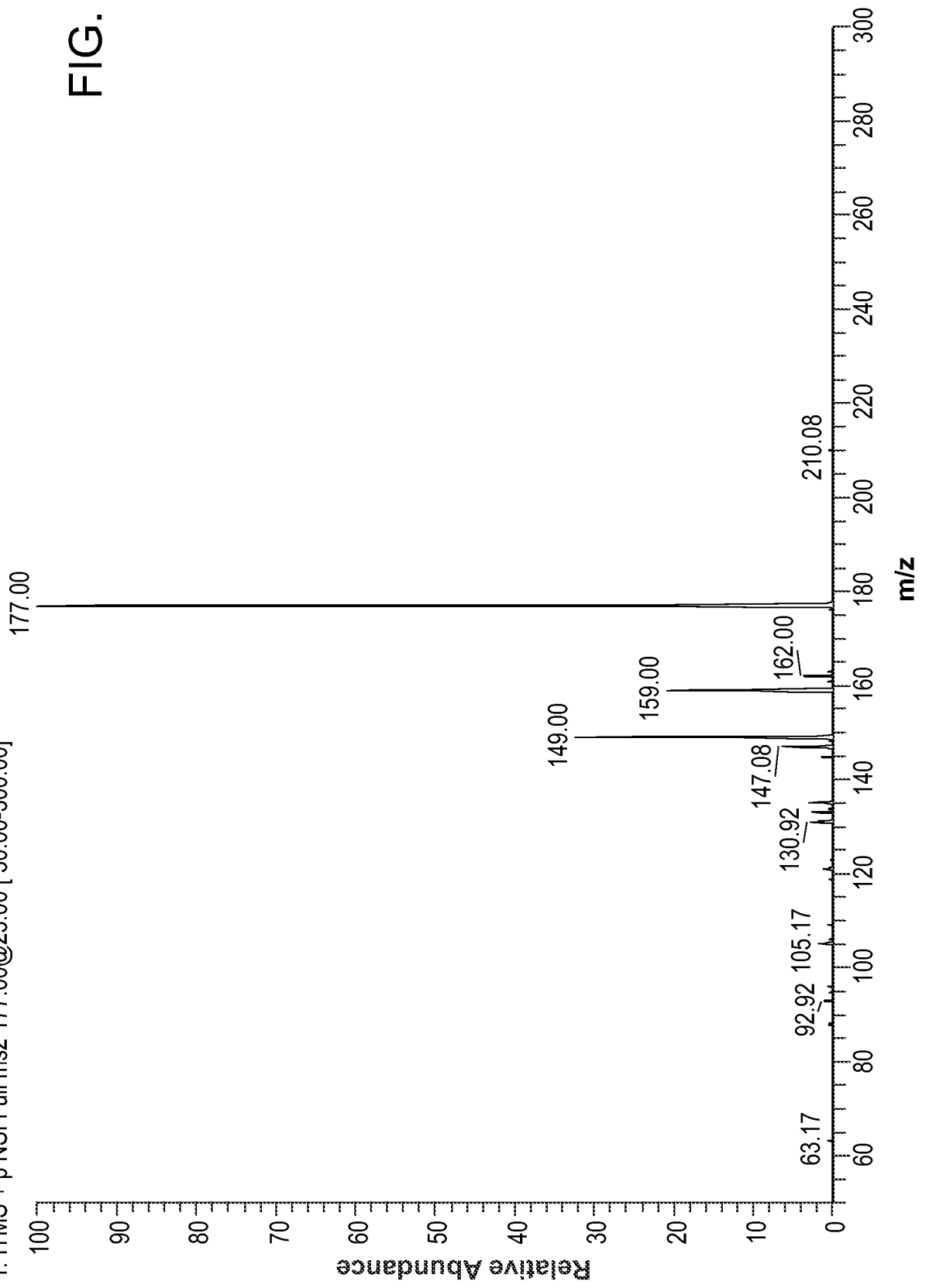


FIG. 13B

FIG. 14A

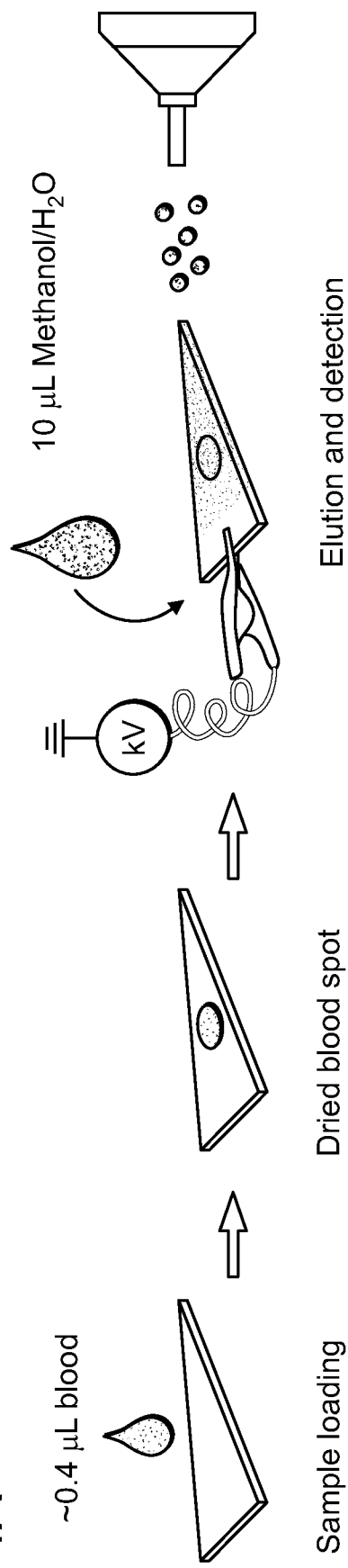
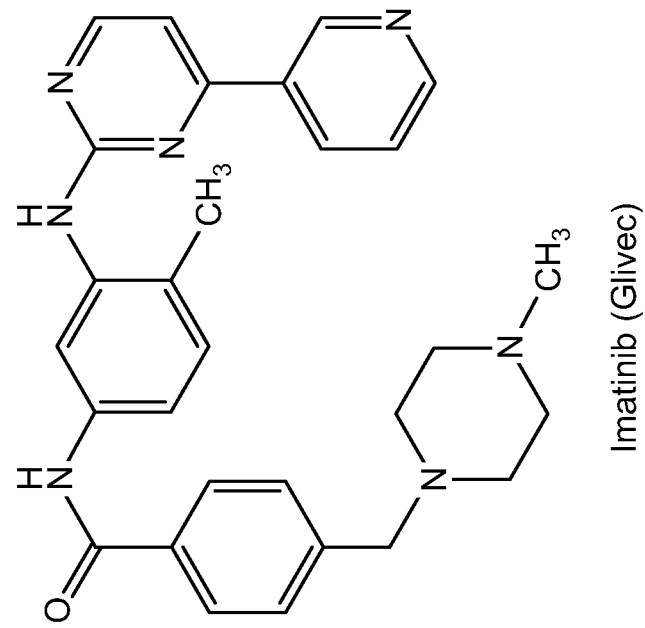


FIG. 14B



28/65

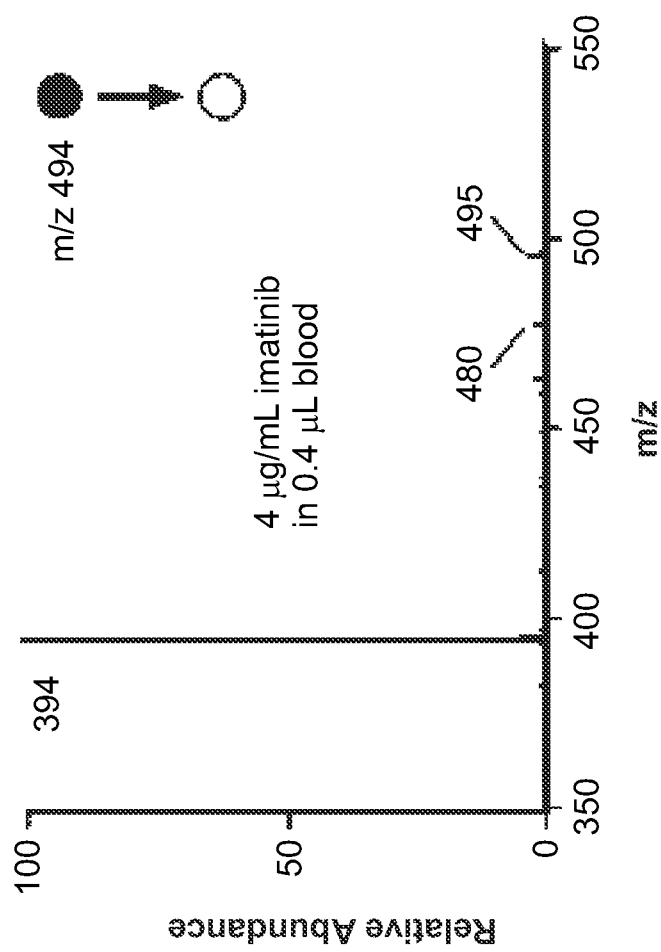
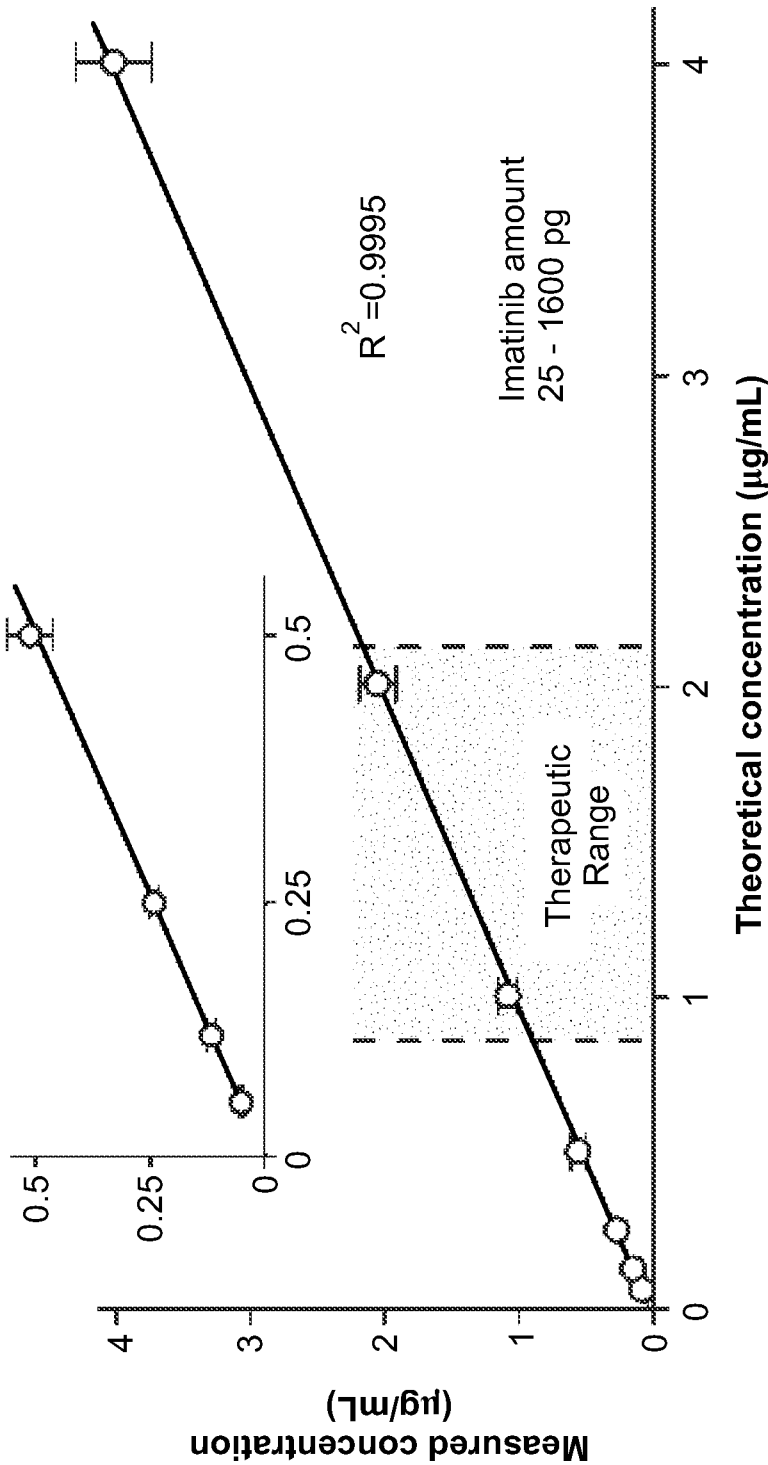


FIG. 14C



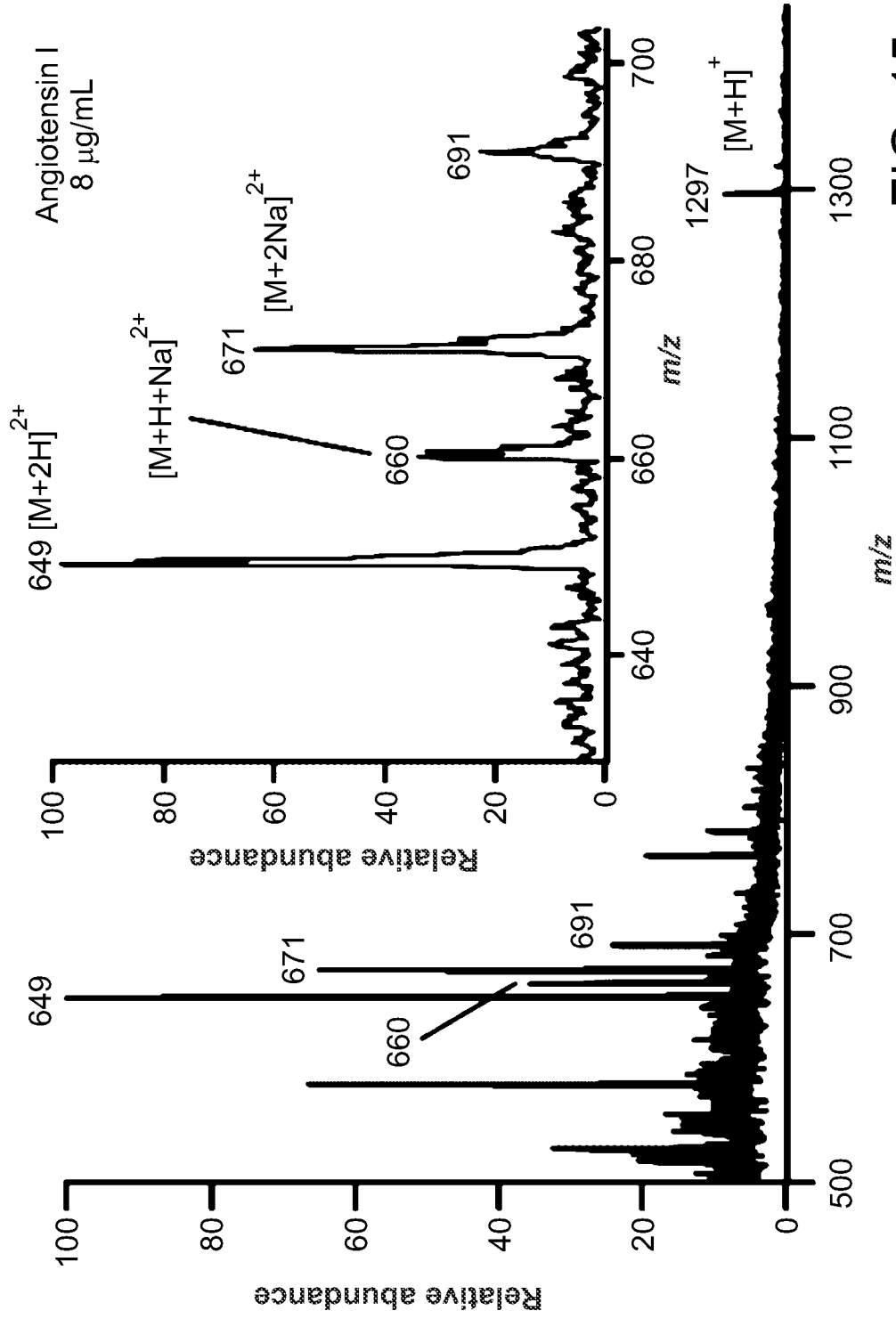


FIG. 15

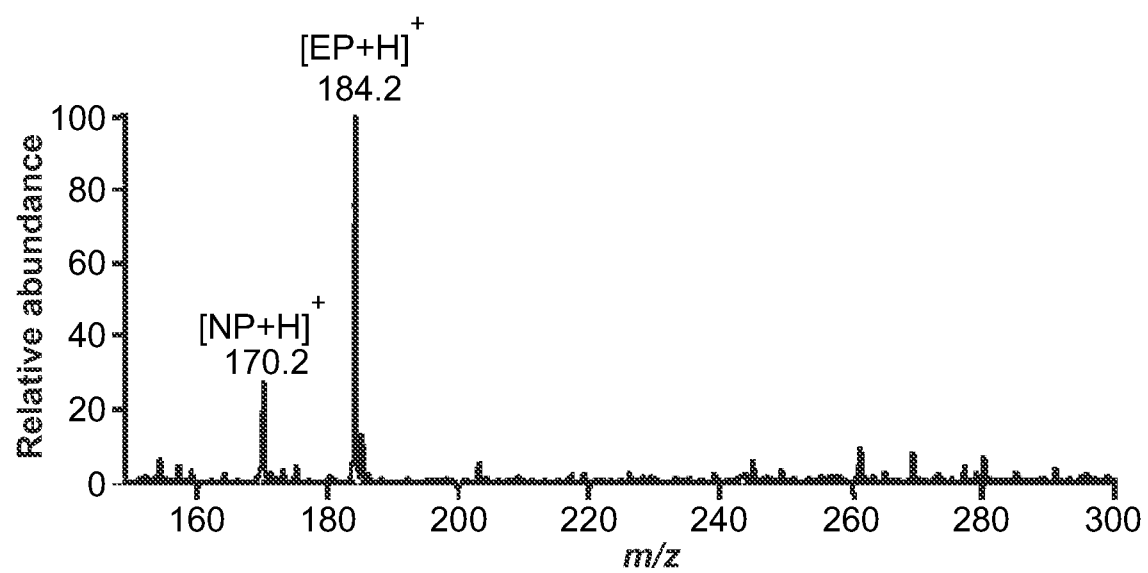


FIG. 16

FIG. 17A

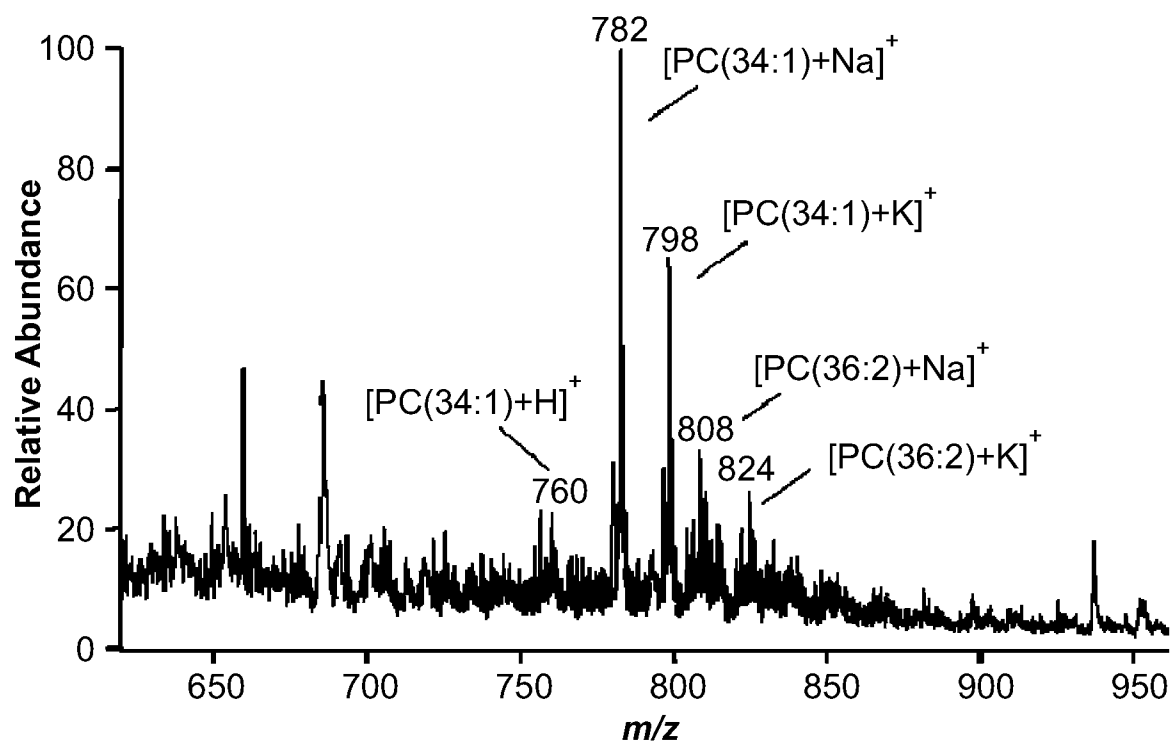
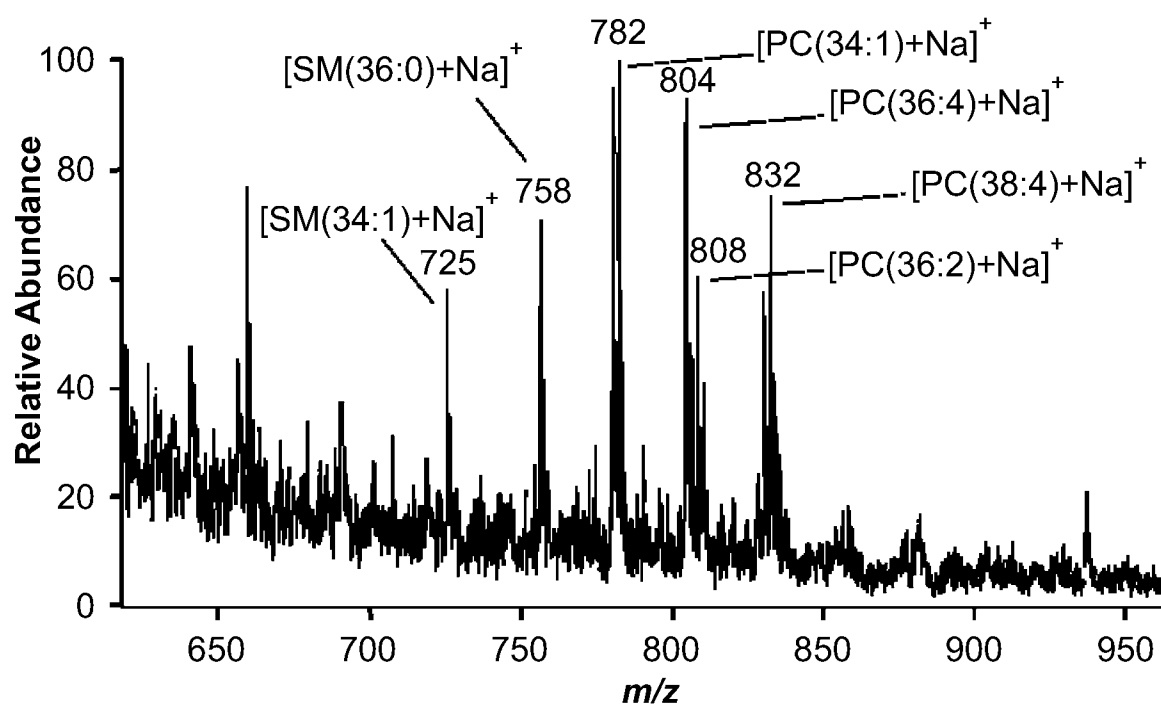


FIG. 17B



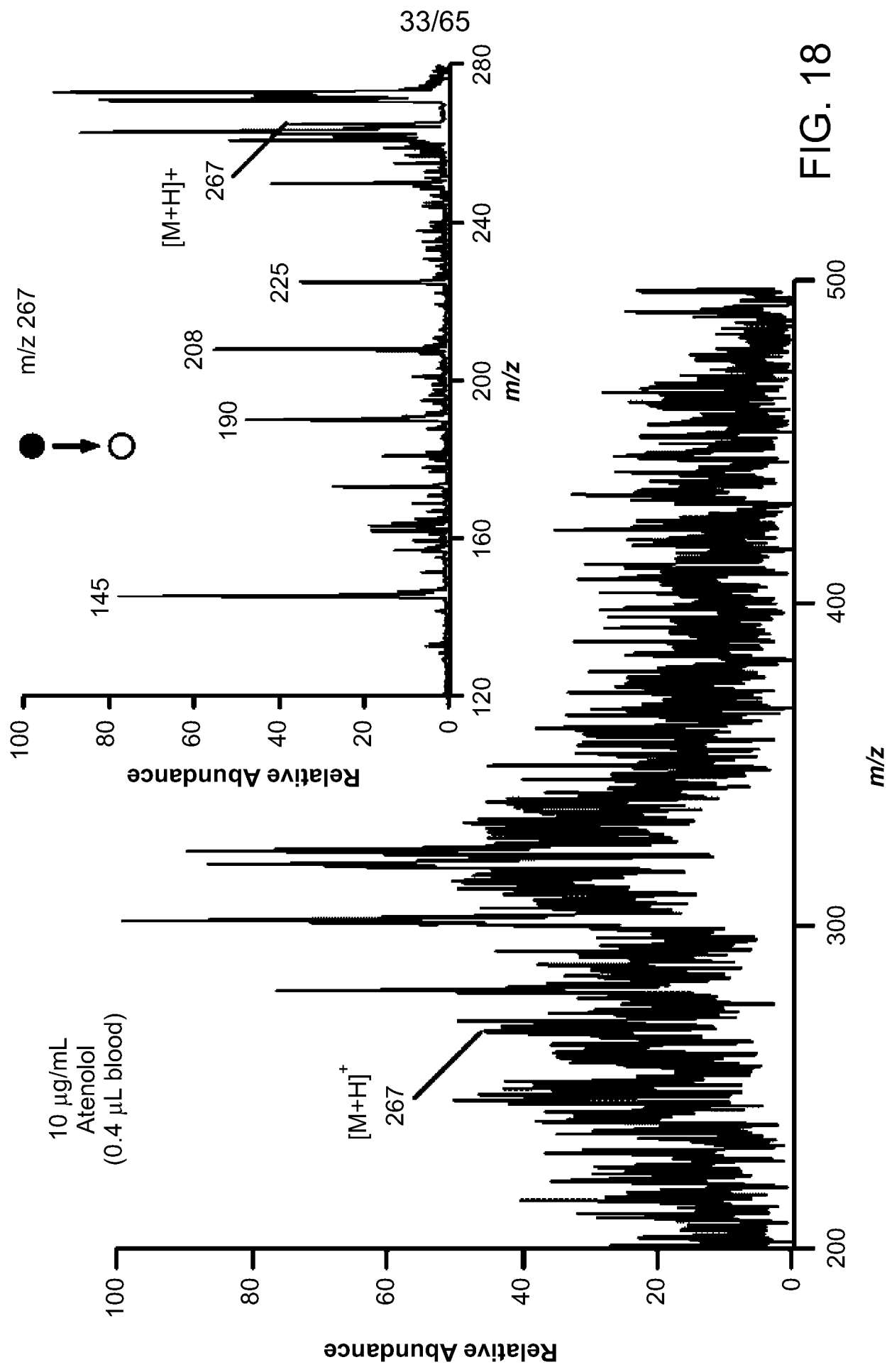


FIG. 18

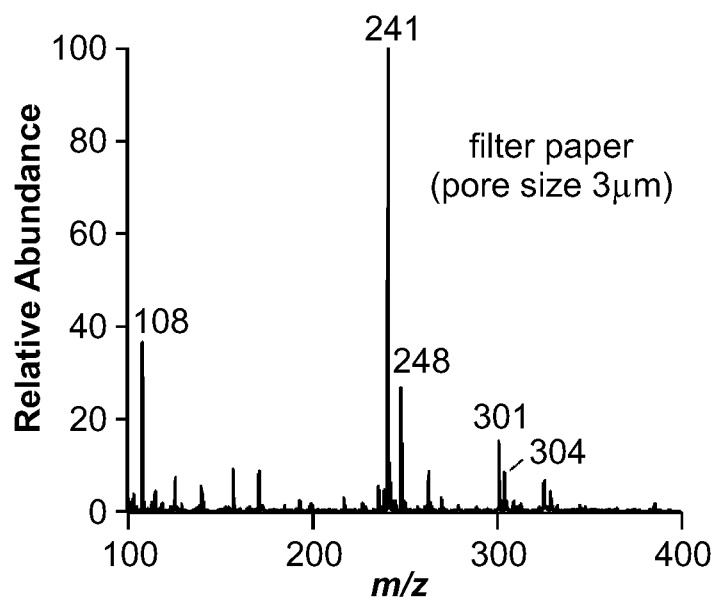


FIG. 19A

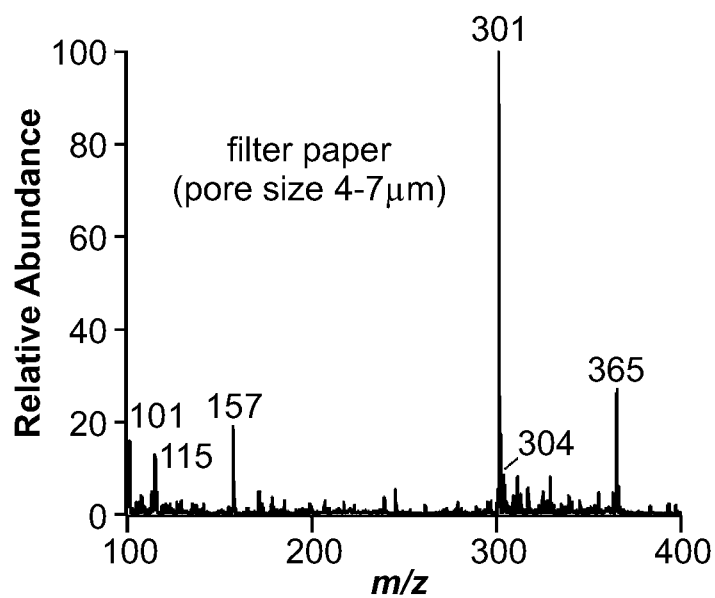


FIG. 19B

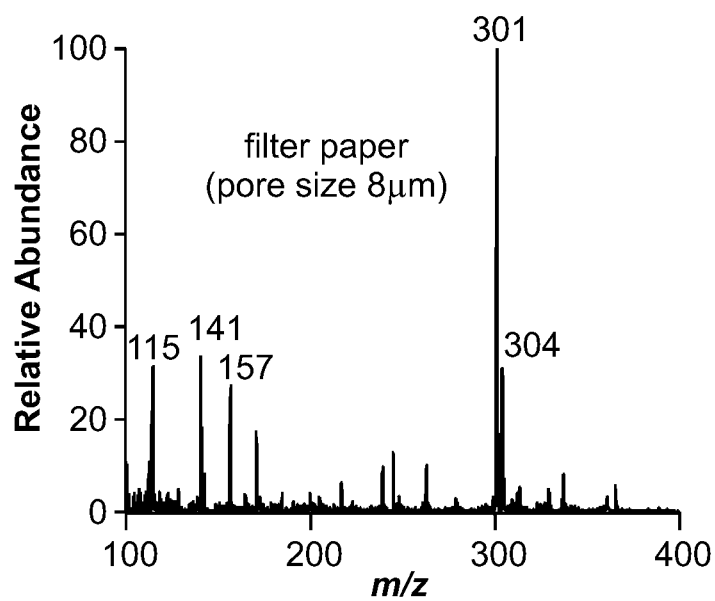


FIG. 19C

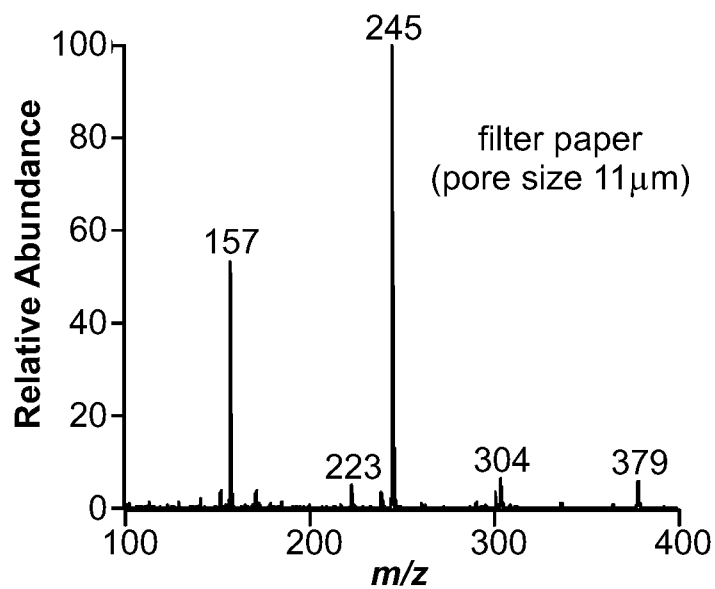


FIG. 19D

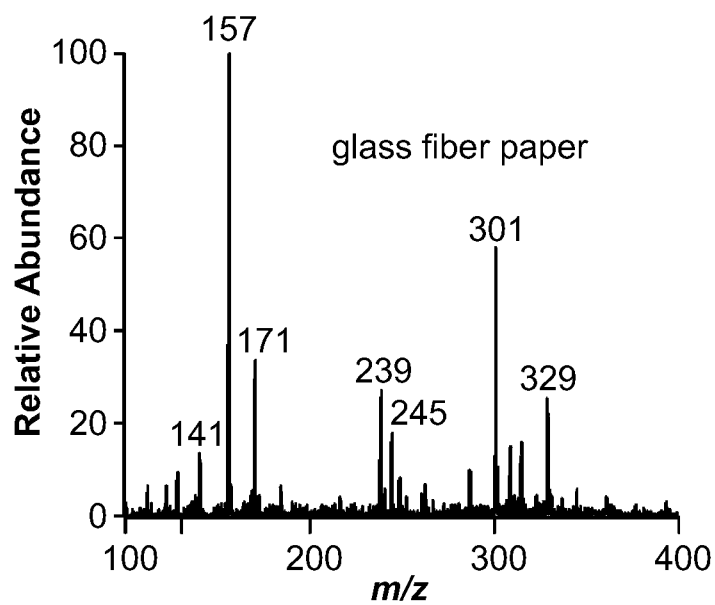


FIG. 19E

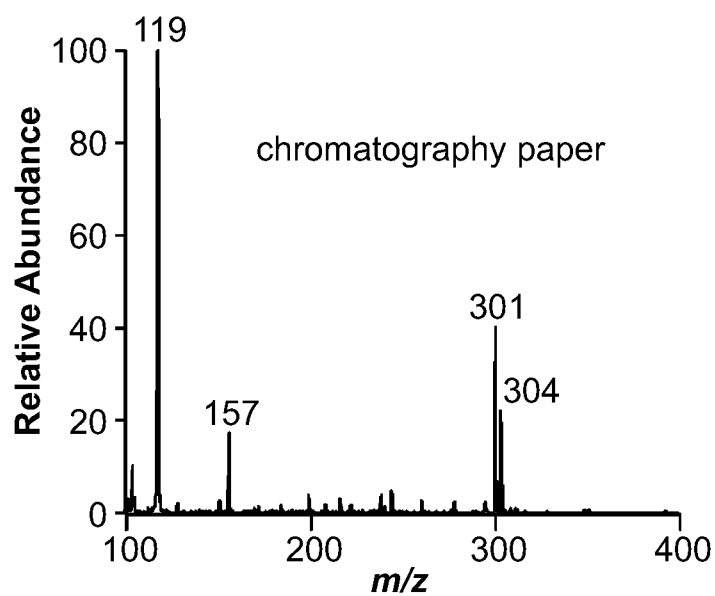


FIG. 19F

FIG. 20A

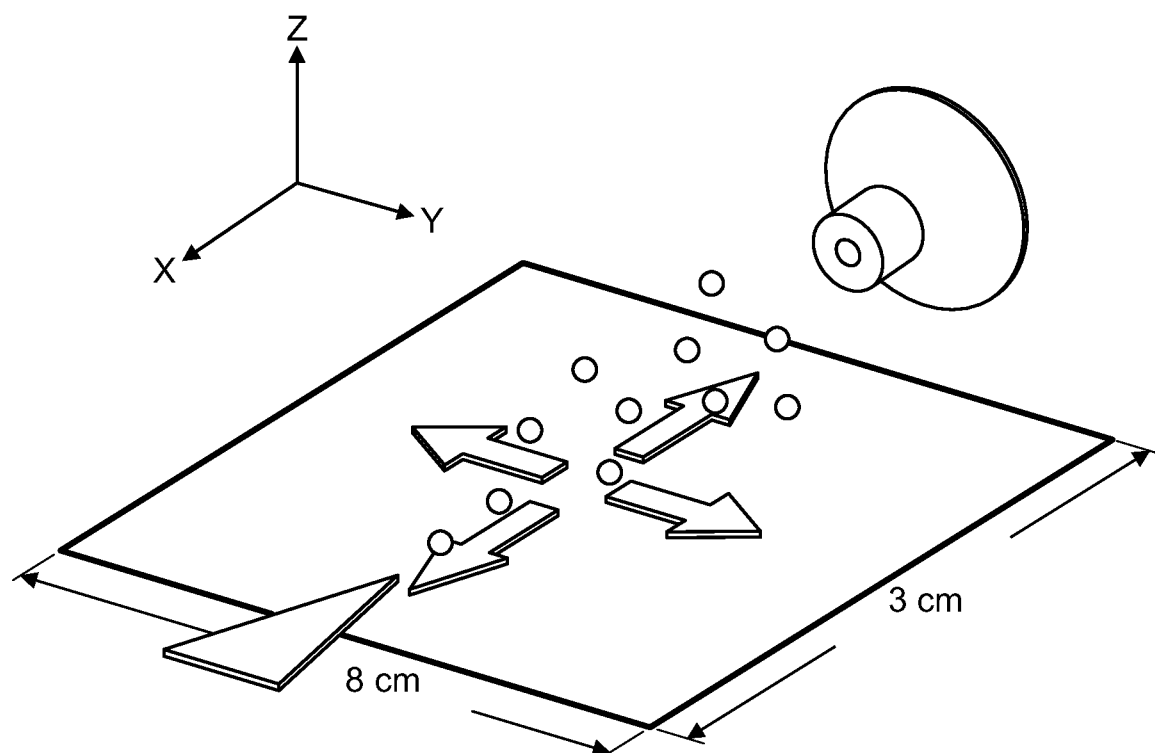
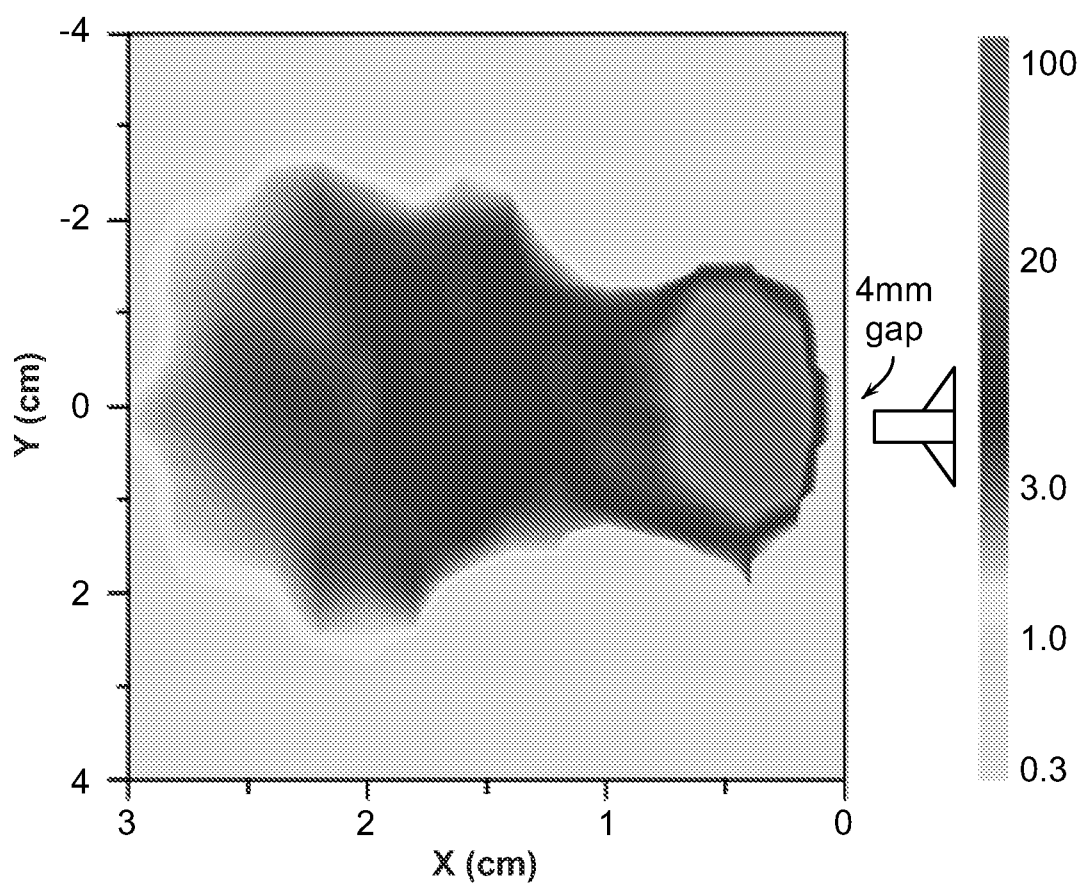


FIG. 20B



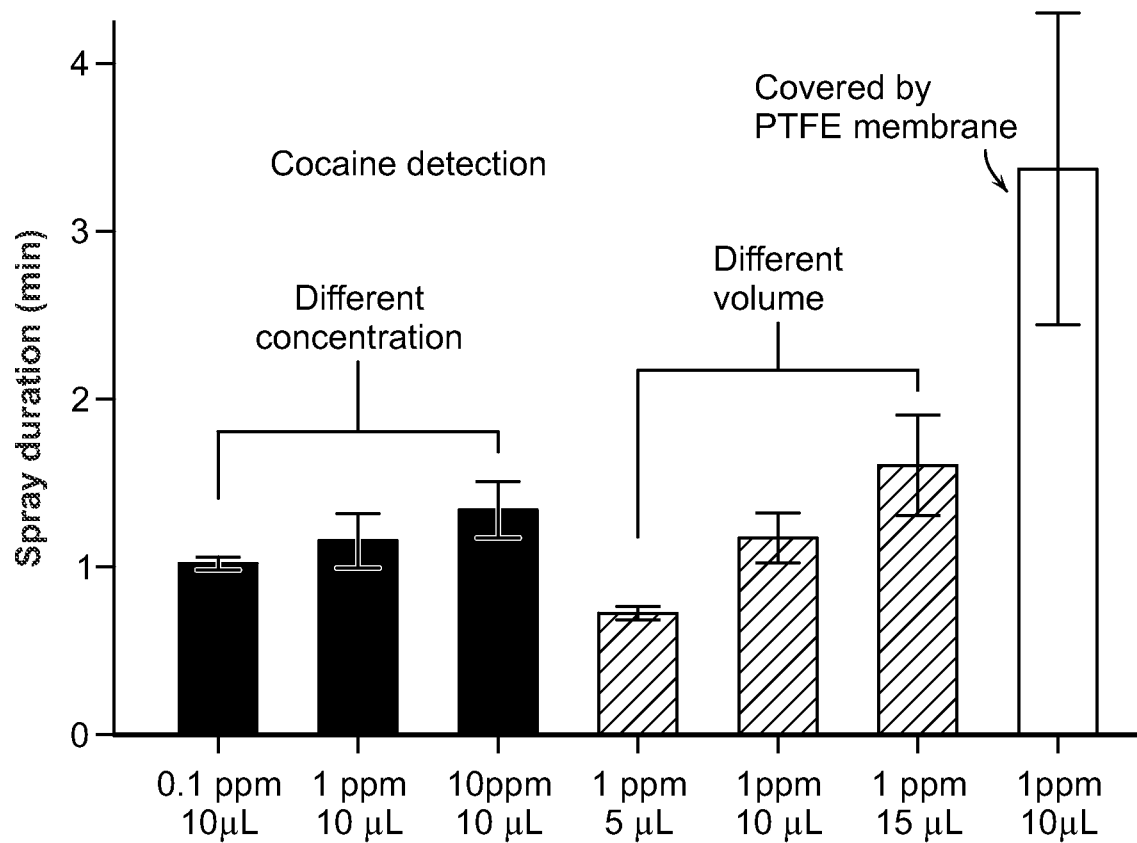


FIG. 20C

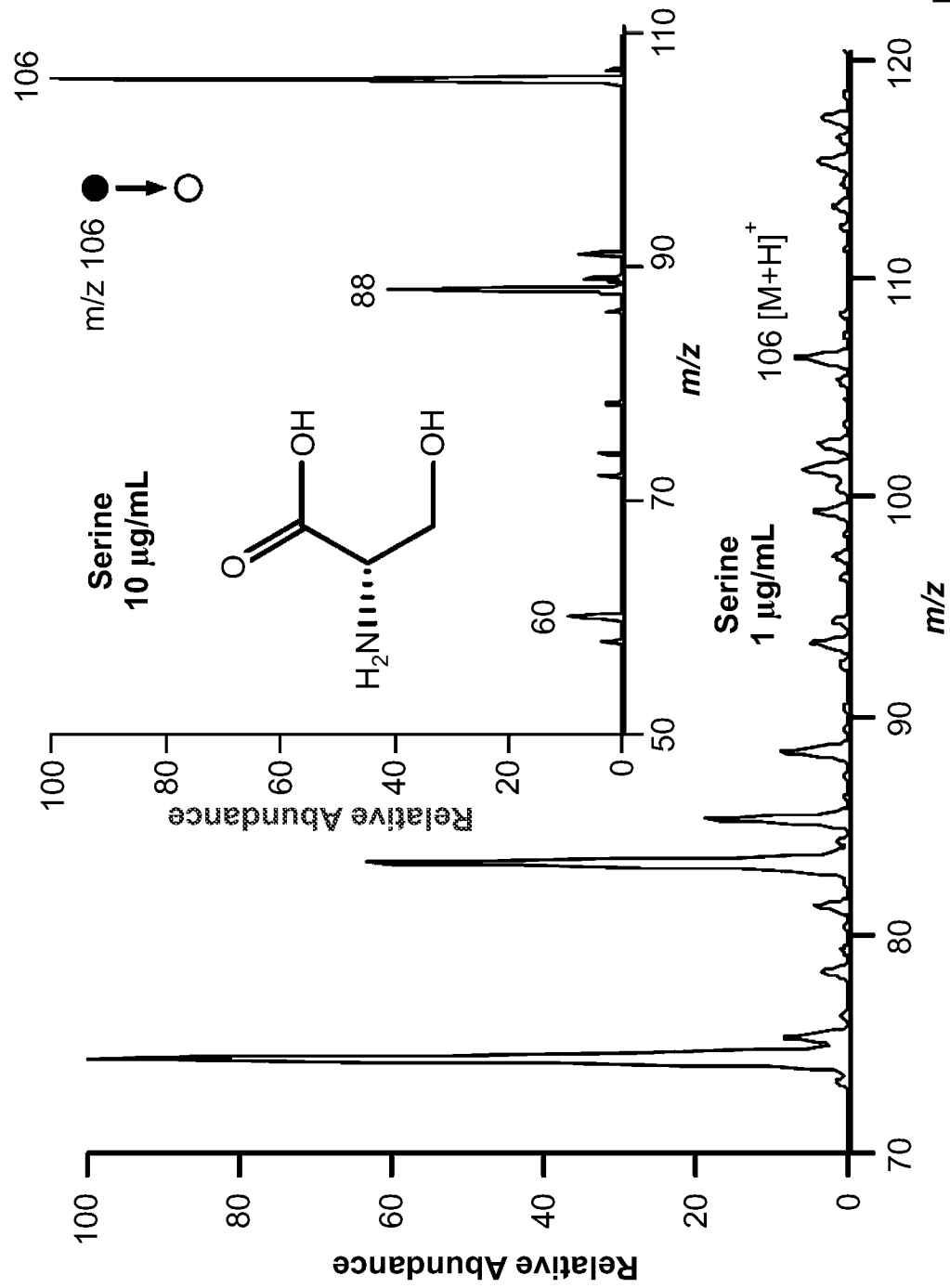


FIG. 21A

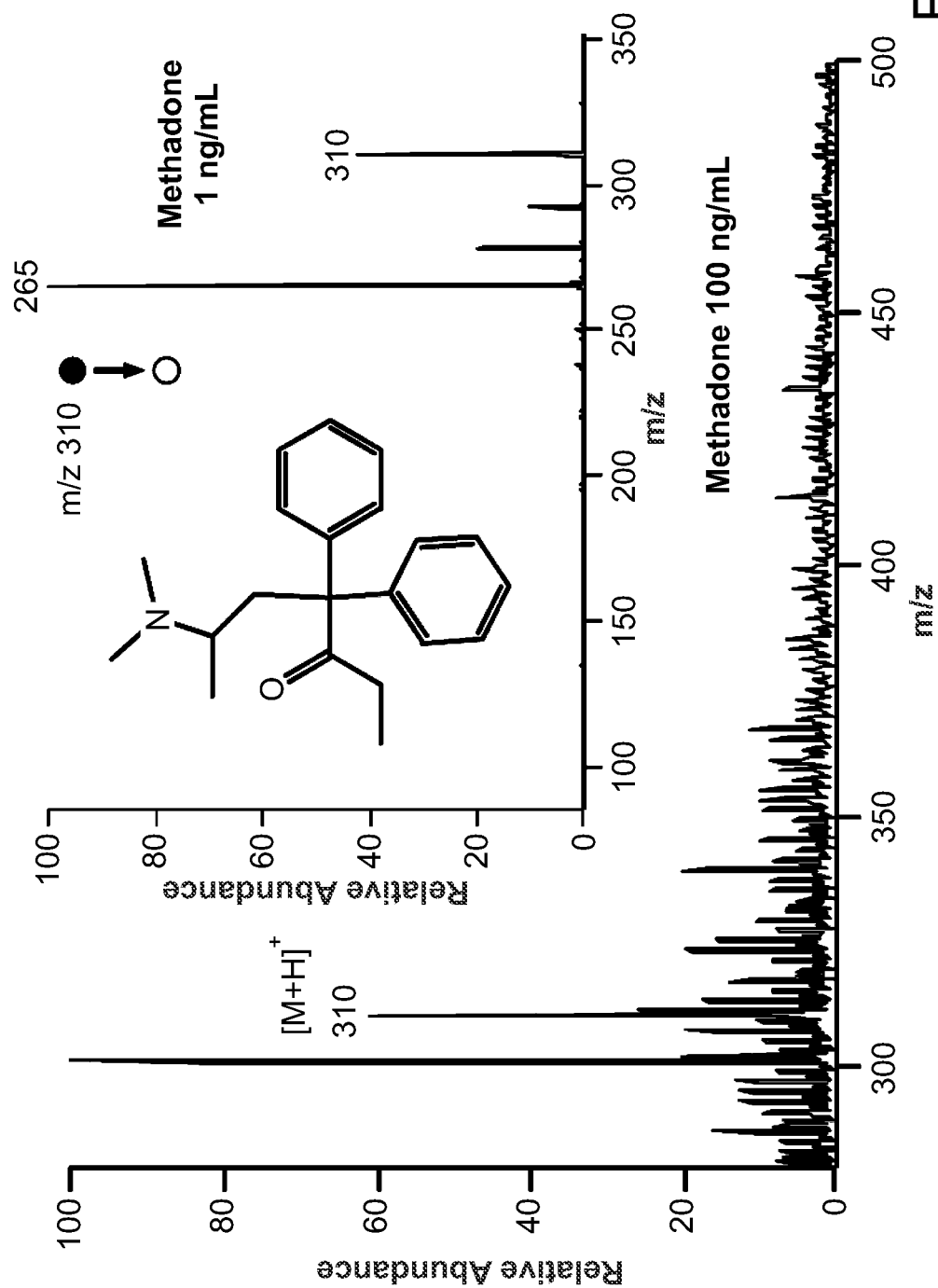


FIG. 21B

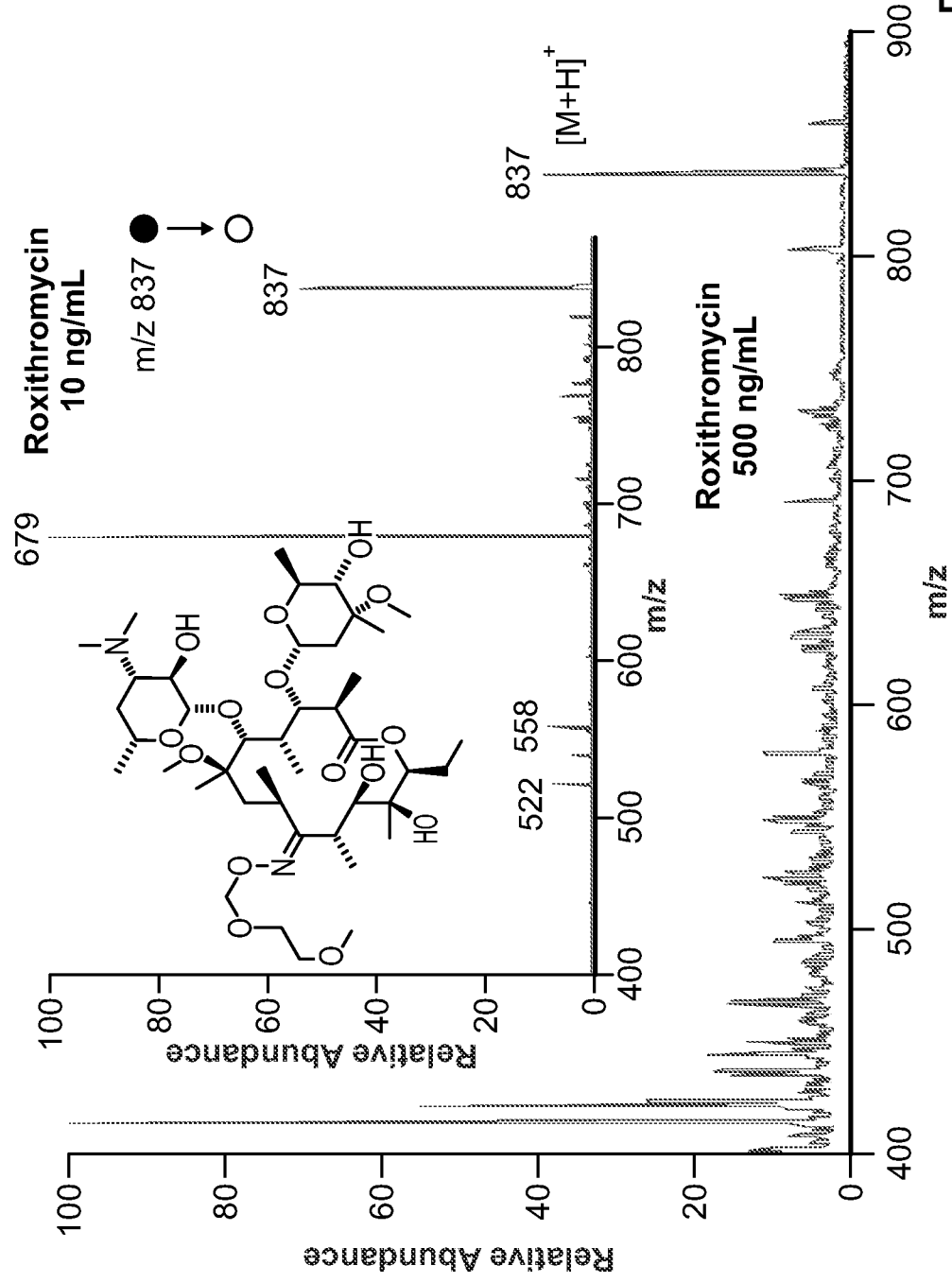


FIG. 21C

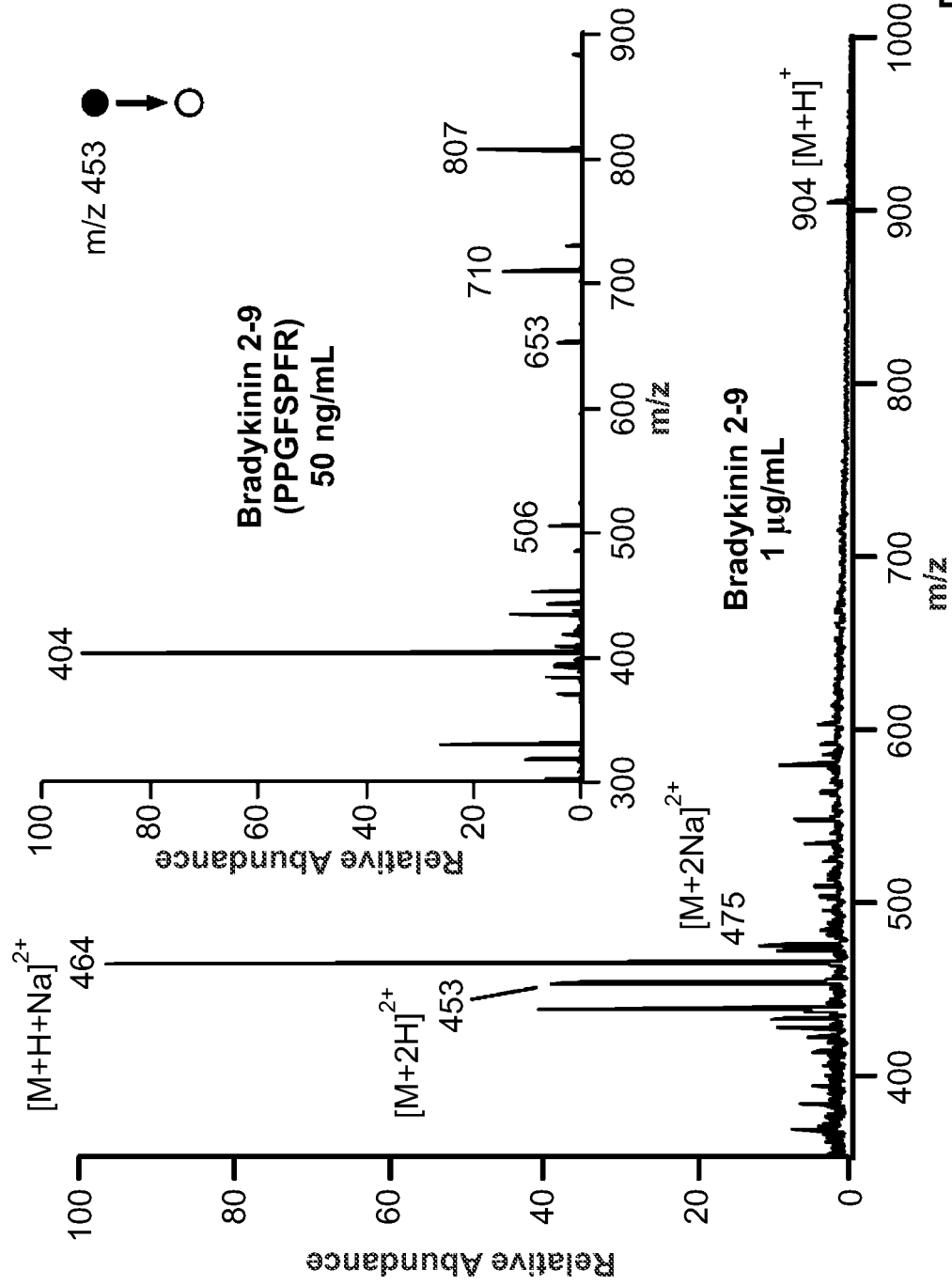


FIG. 21D

FIG. 22A

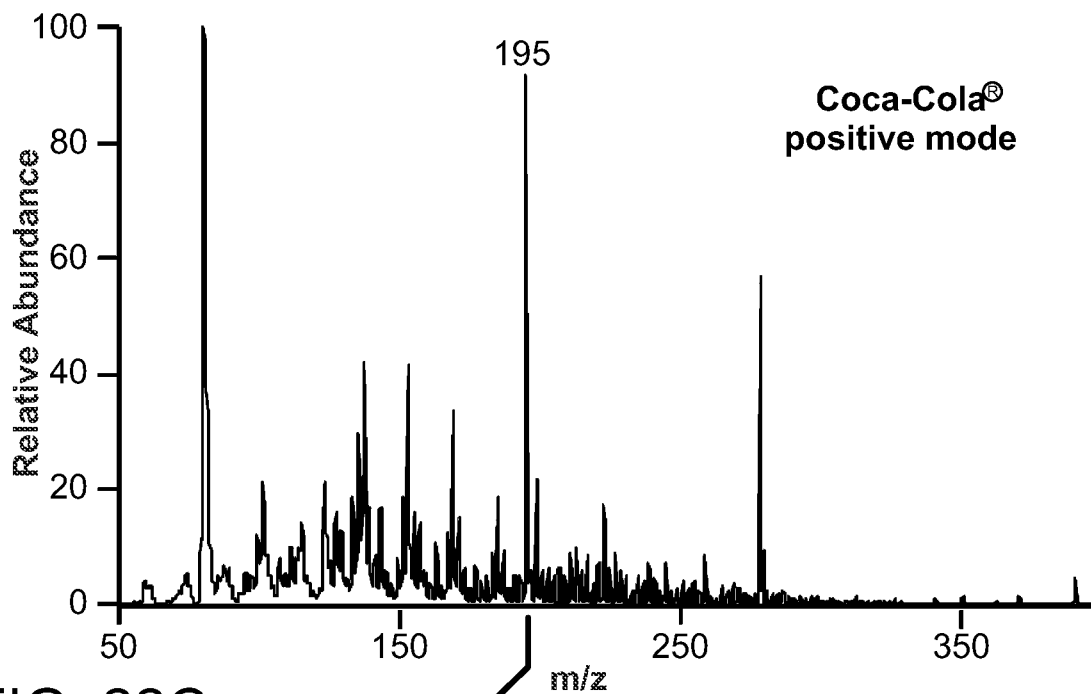


FIG. 22C

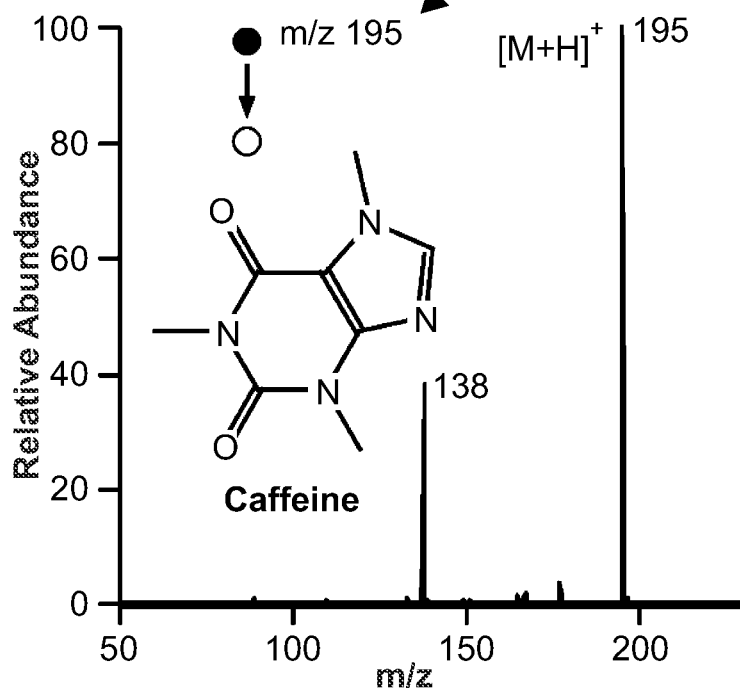


FIG. 22B

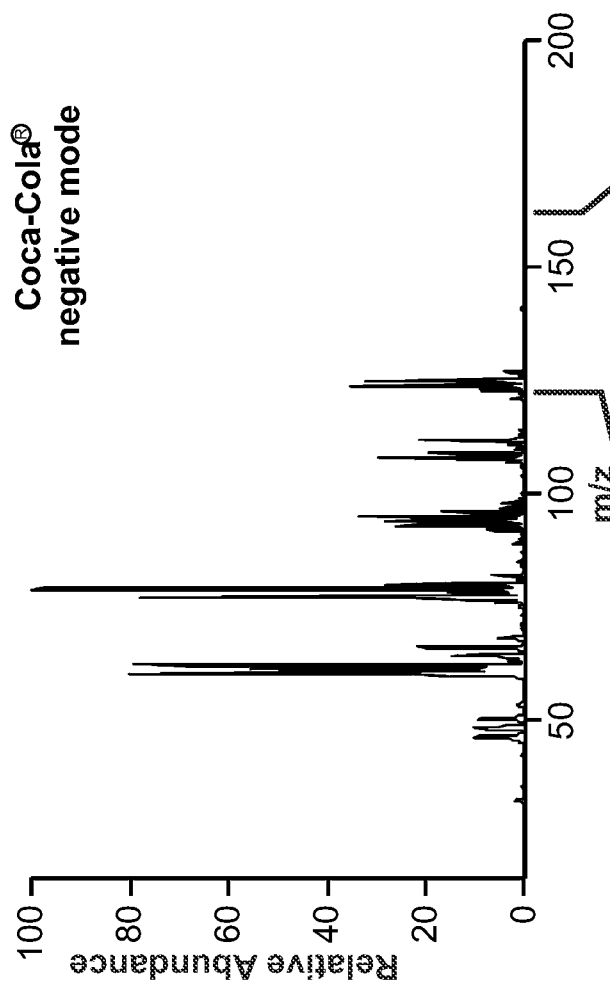


FIG. 22D

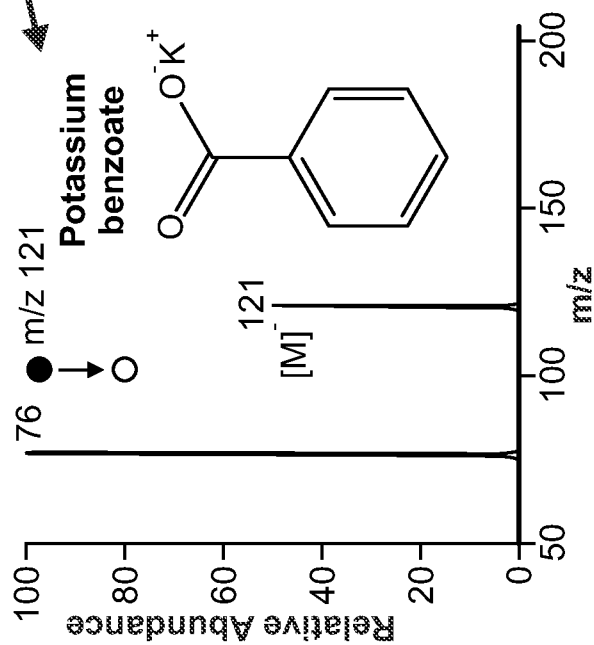


FIG. 22E

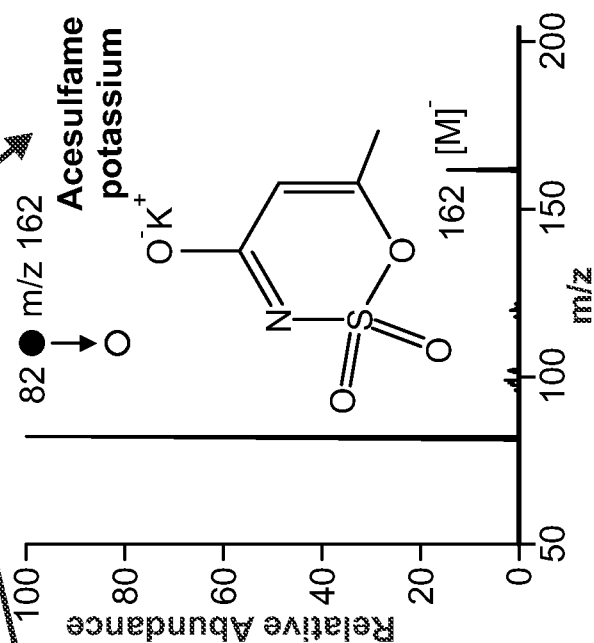


FIG. 22F

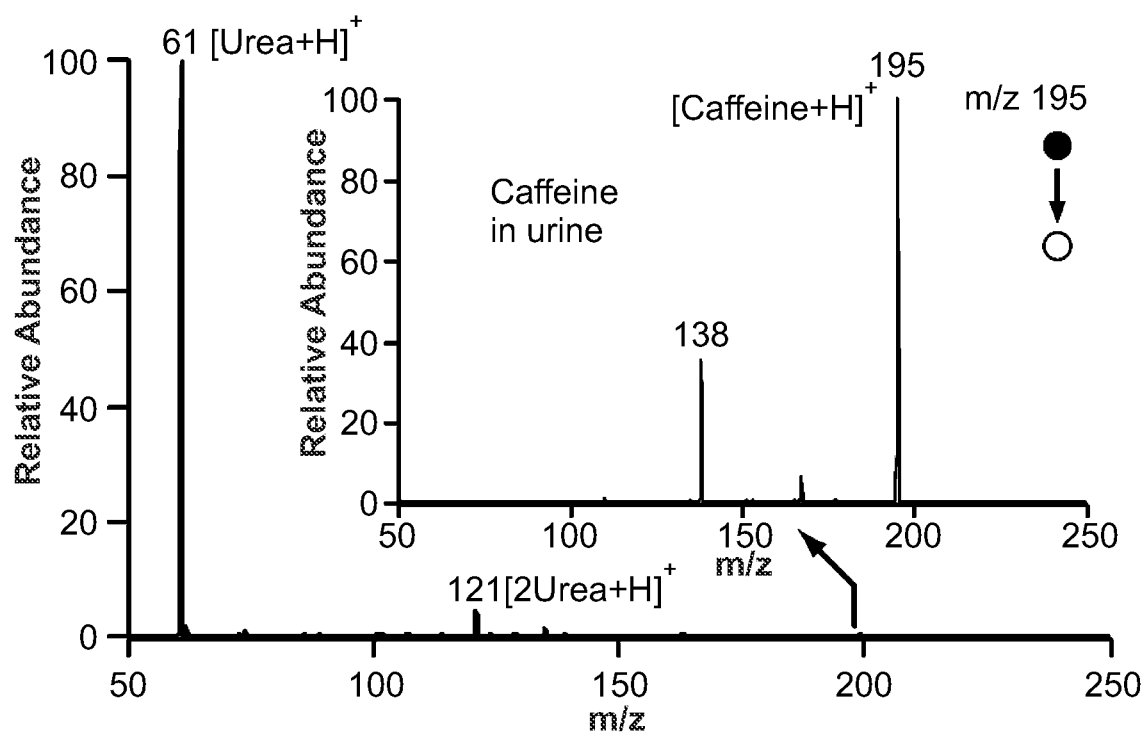
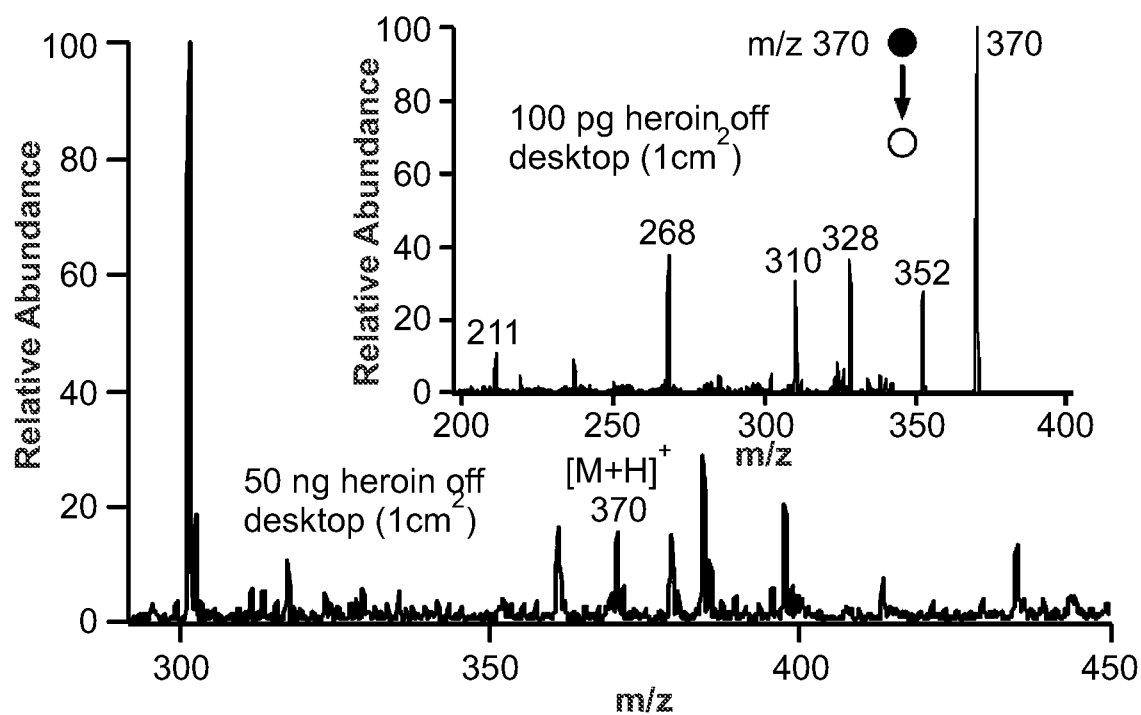


FIG. 22G



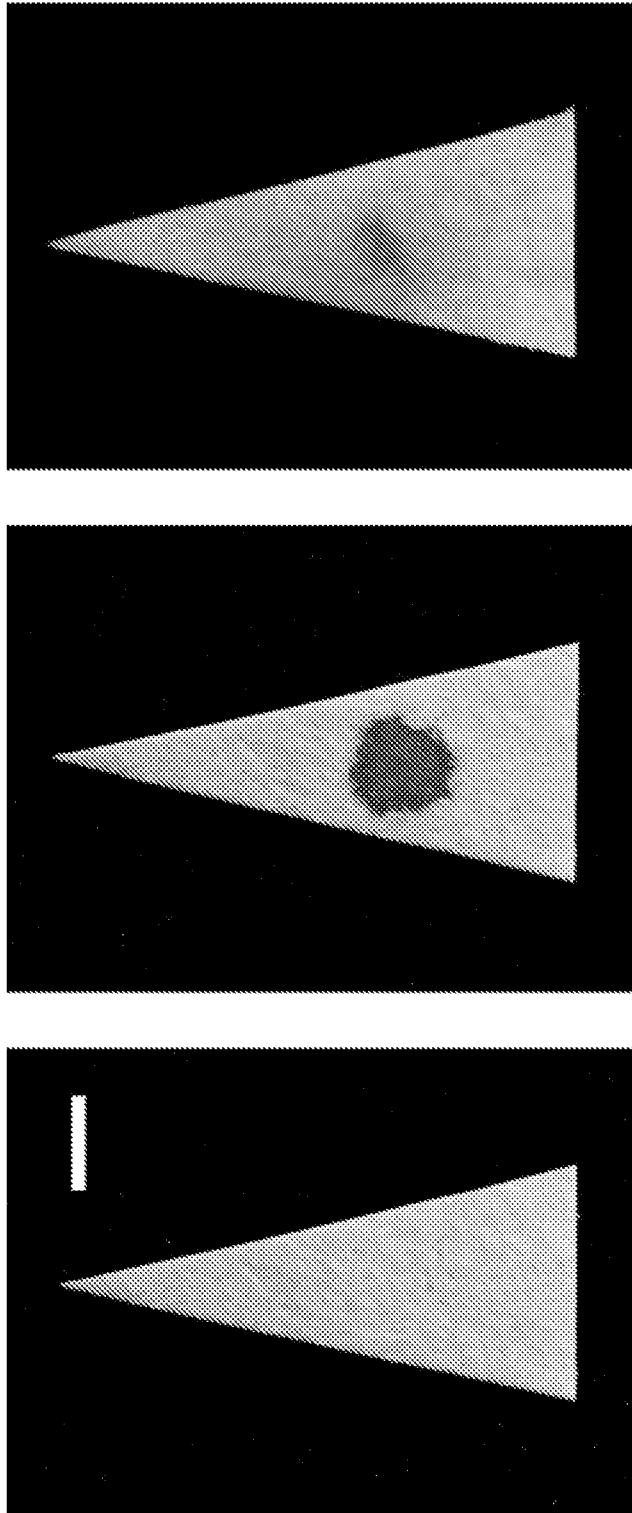


FIG. 23A

FIG. 23B

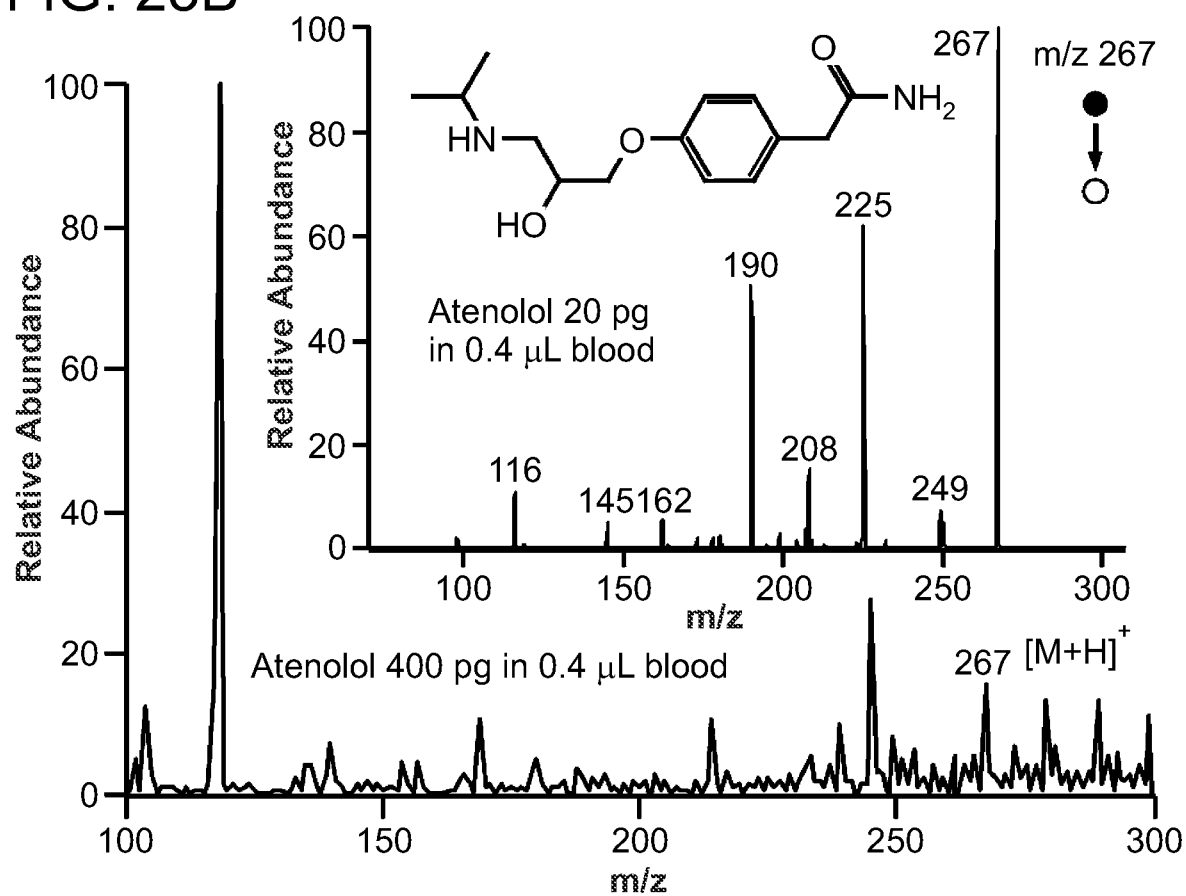


FIG. 23C

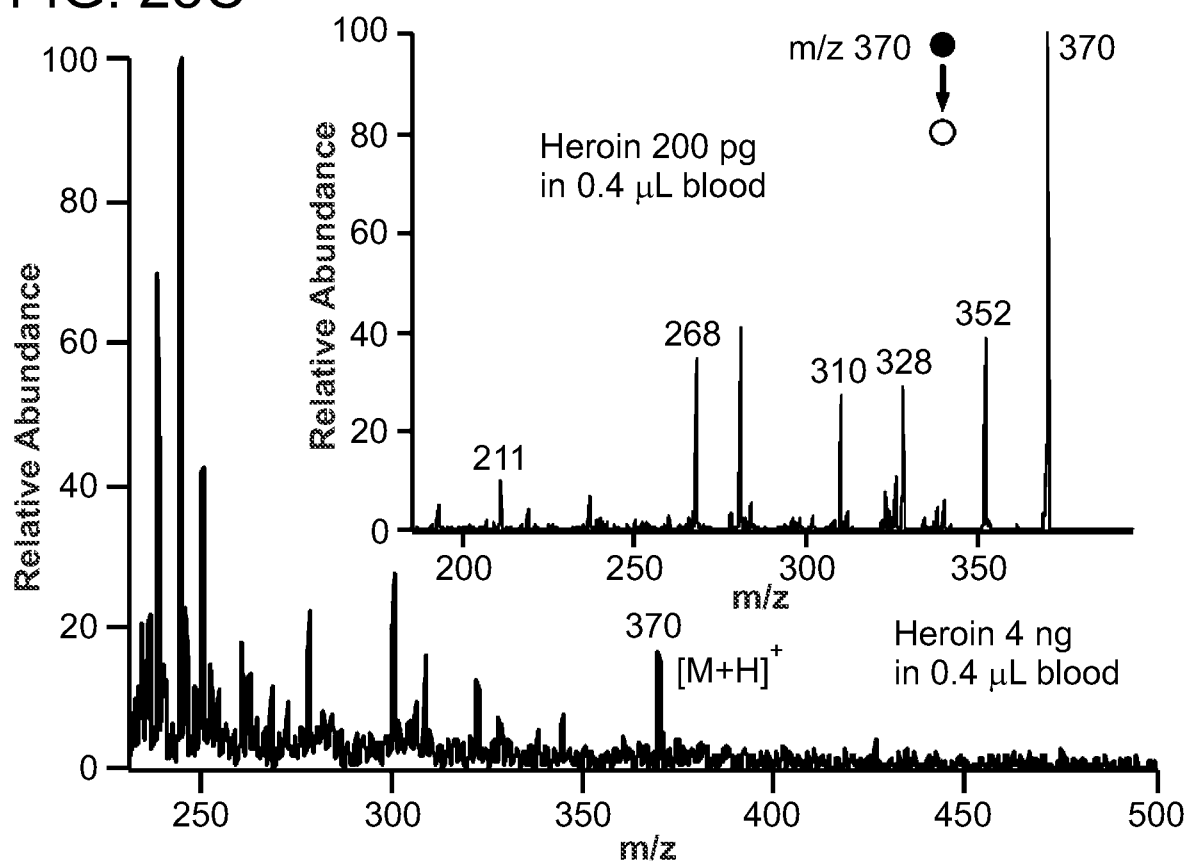


FIG. 24

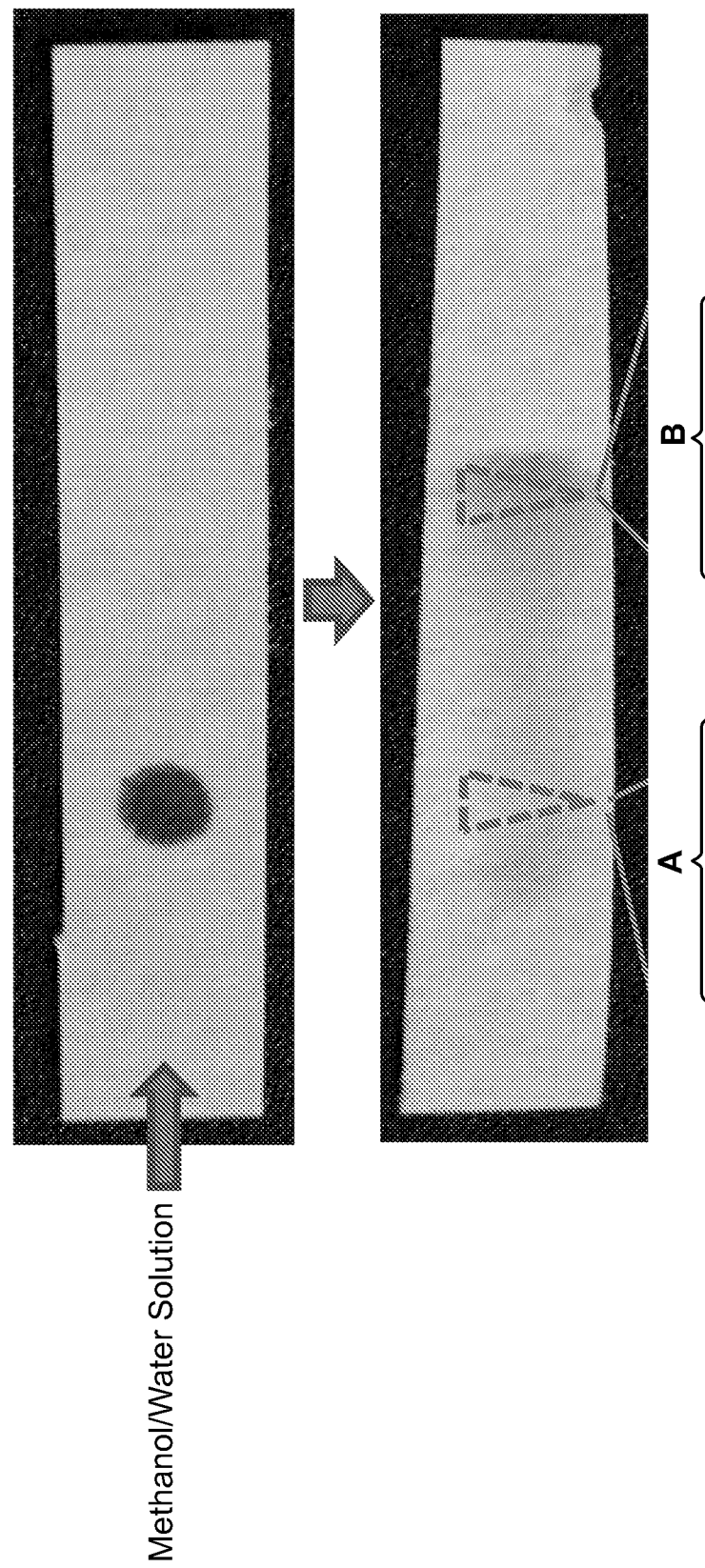
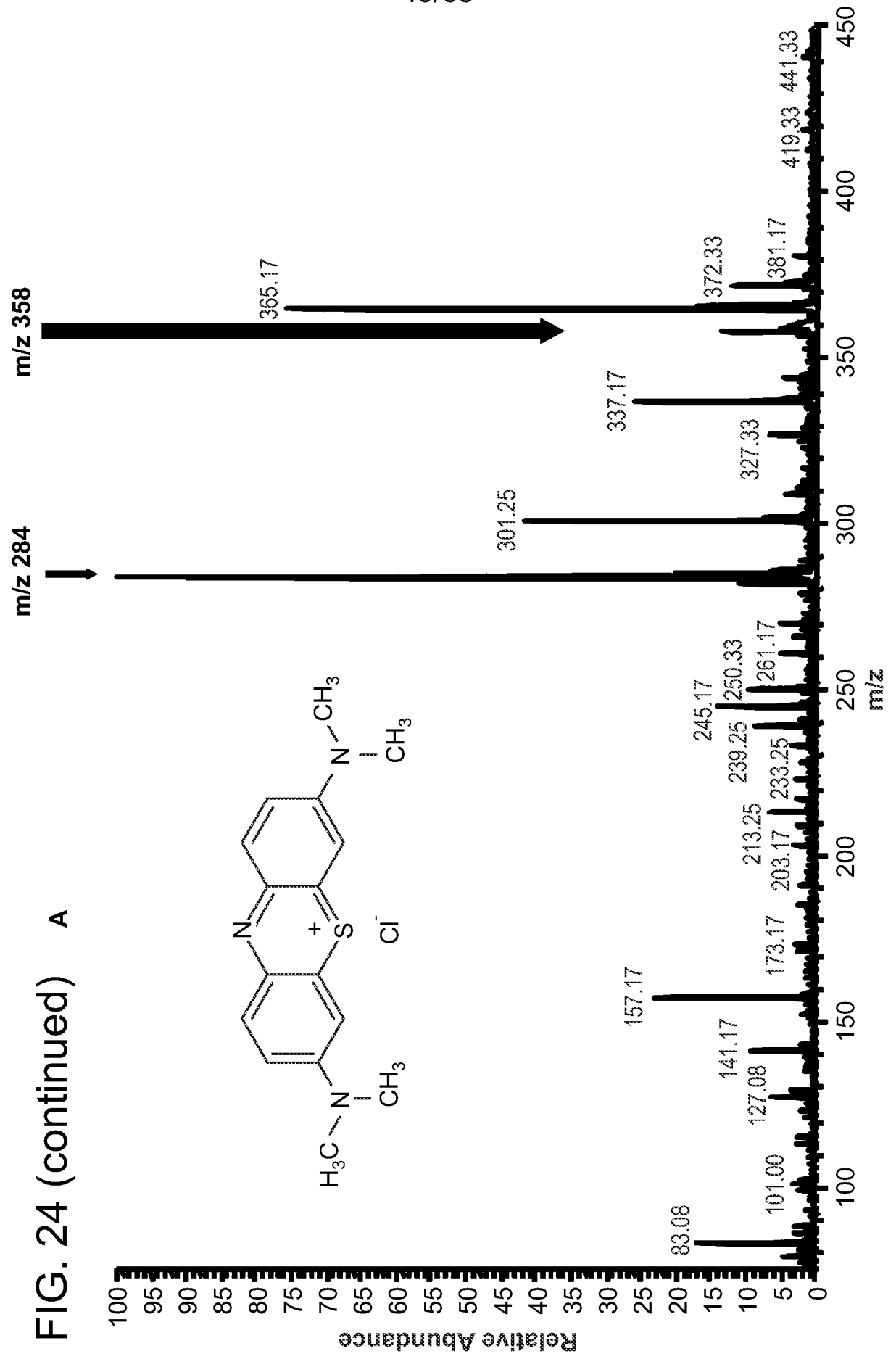


FIG. 24 (continued) A



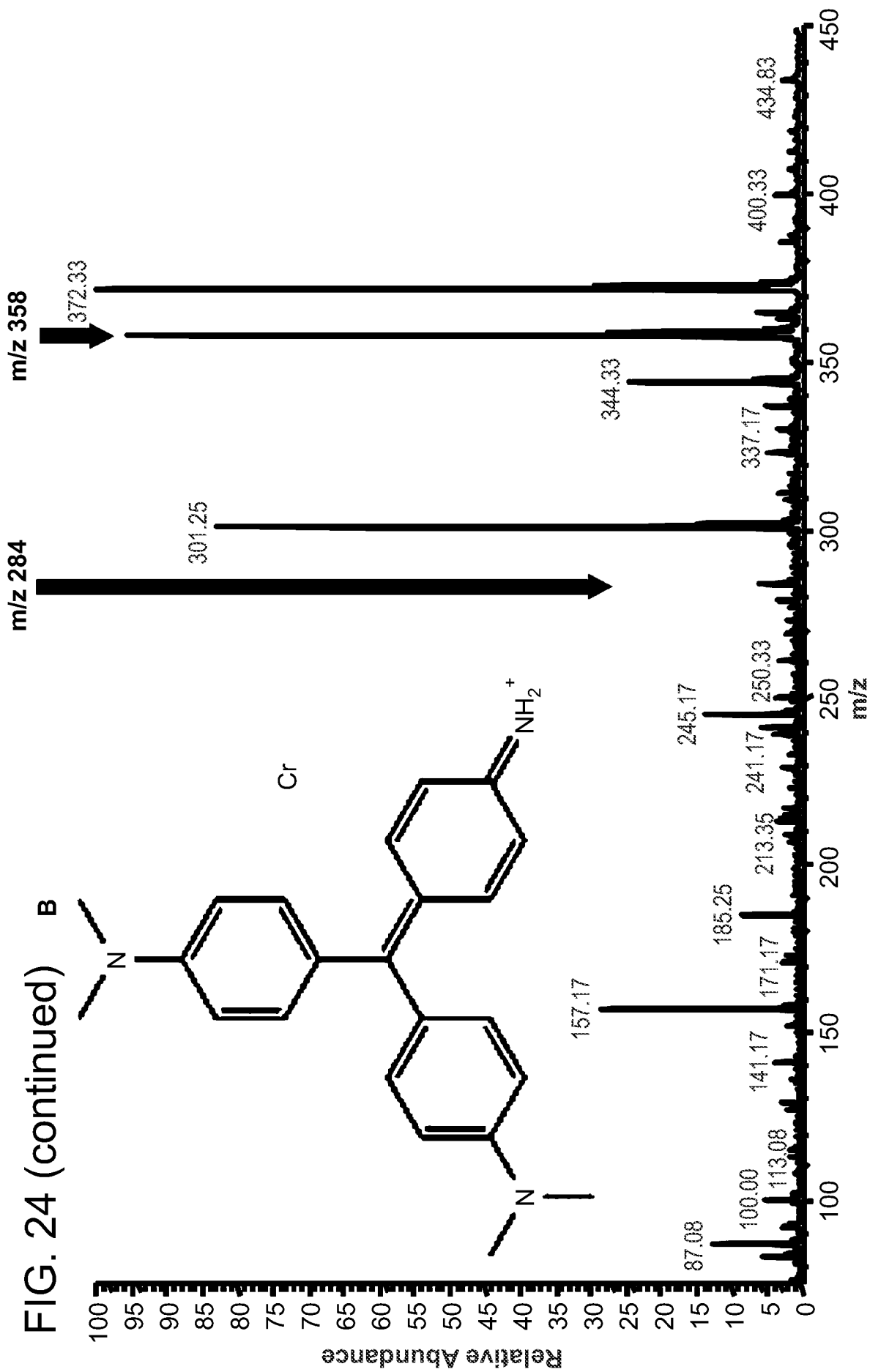


FIG. 25A

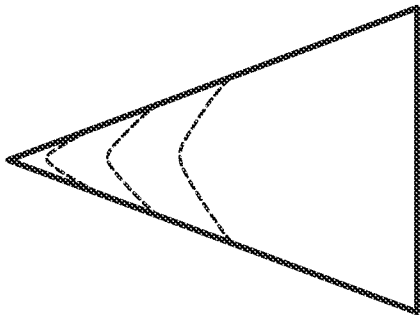


FIG. 25B

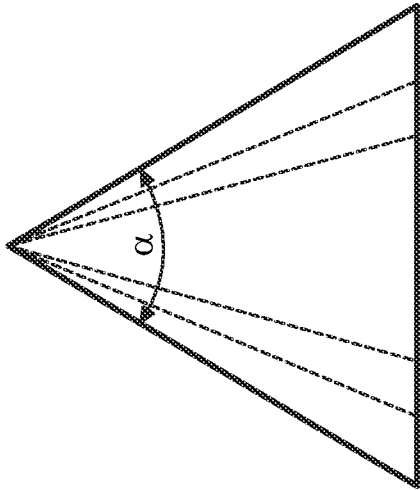


FIG. 25C

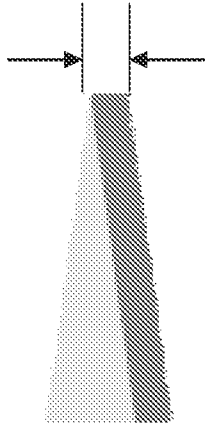


FIG. 25D

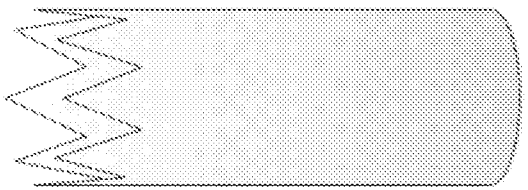


FIG. 25E

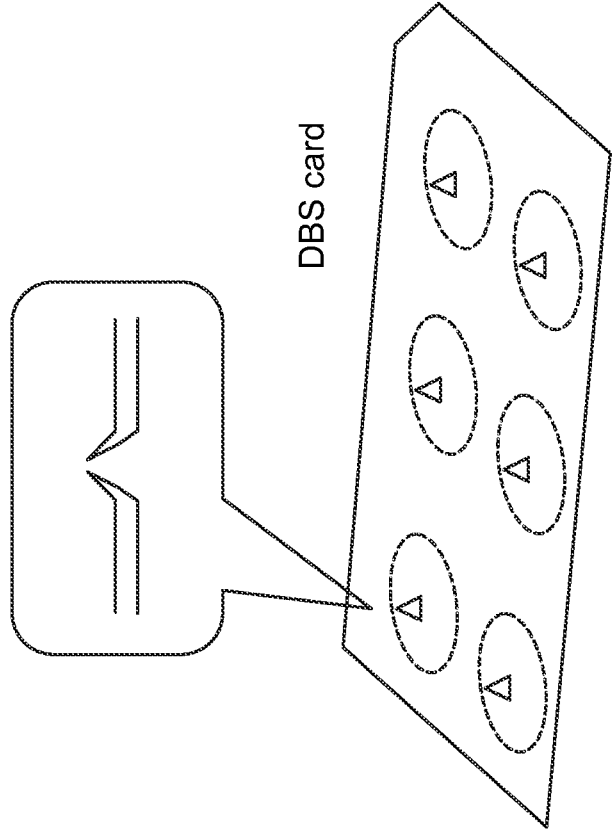


FIG. 26A

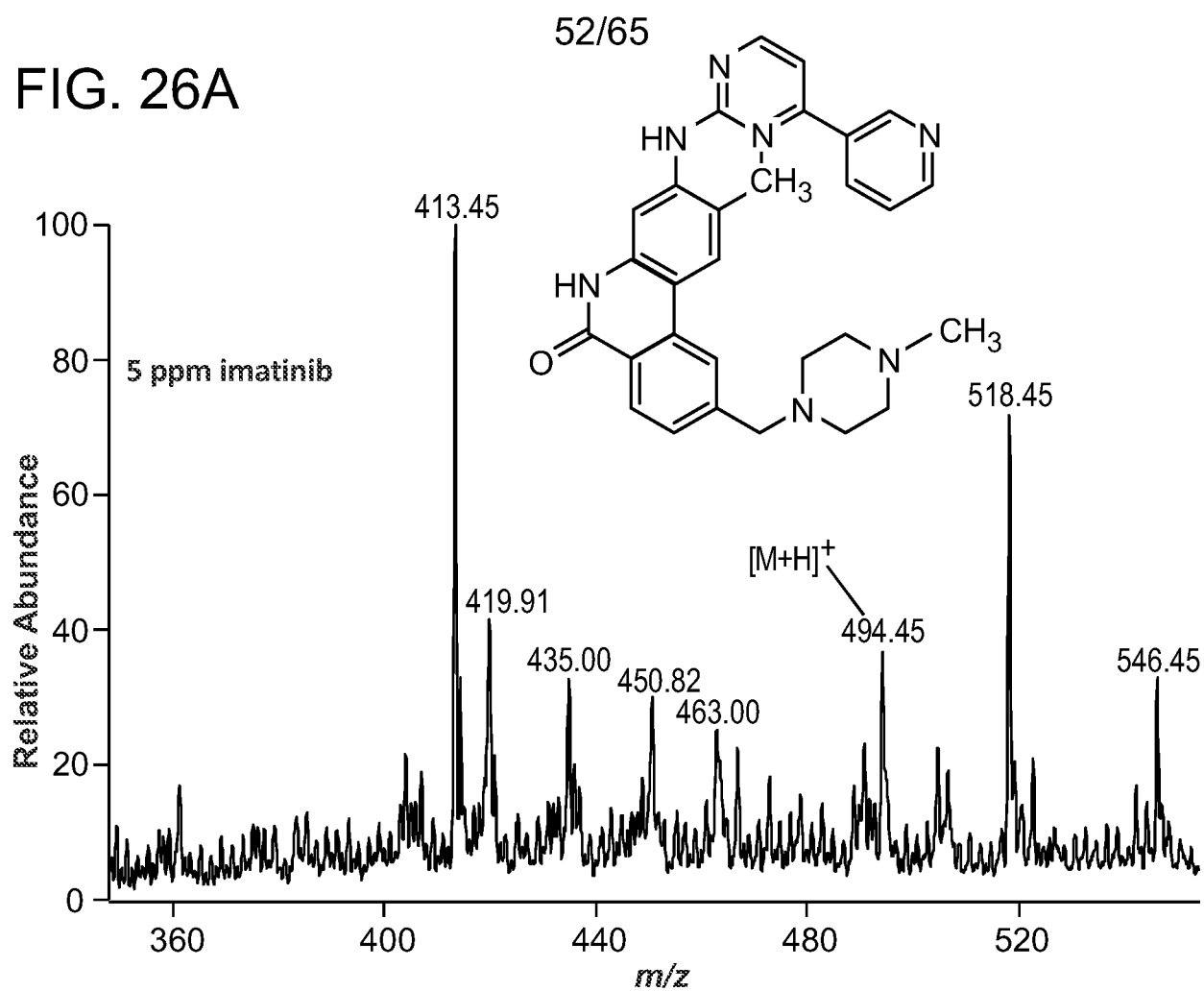
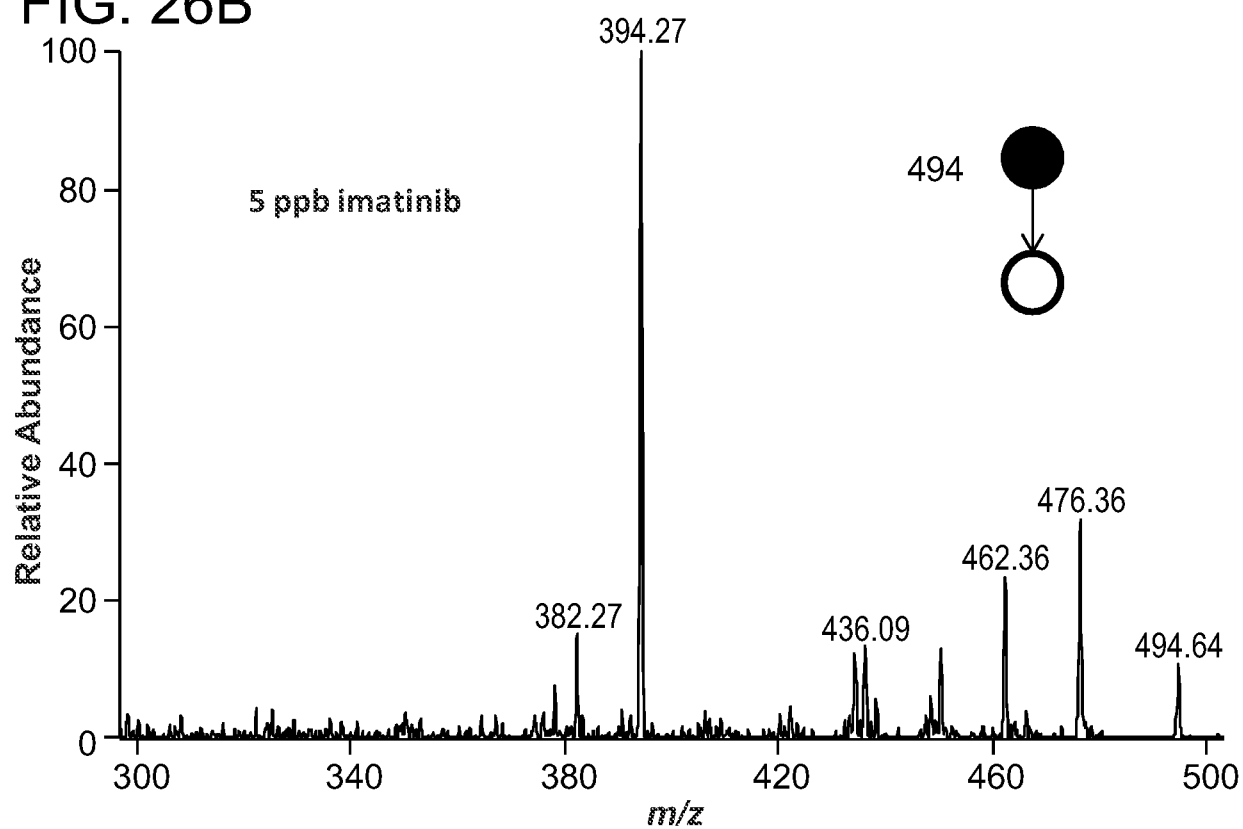


FIG. 26B



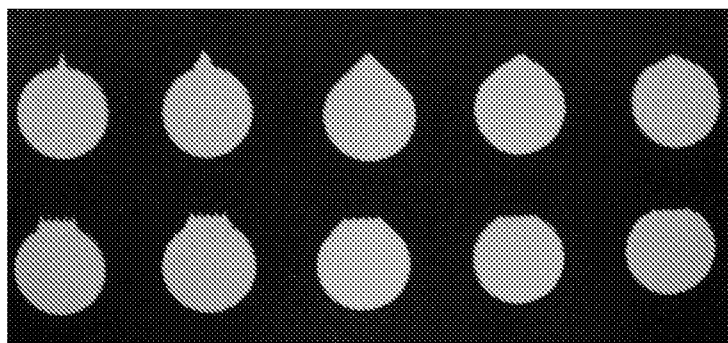


FIG. 27A

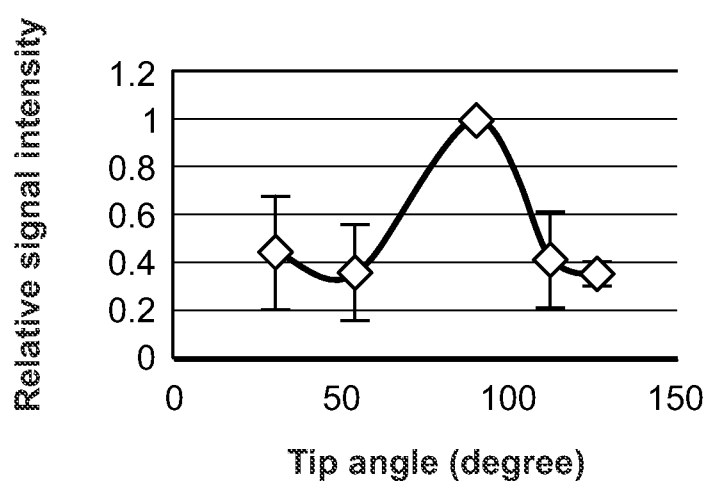


FIG. 27B

FIG. 28A

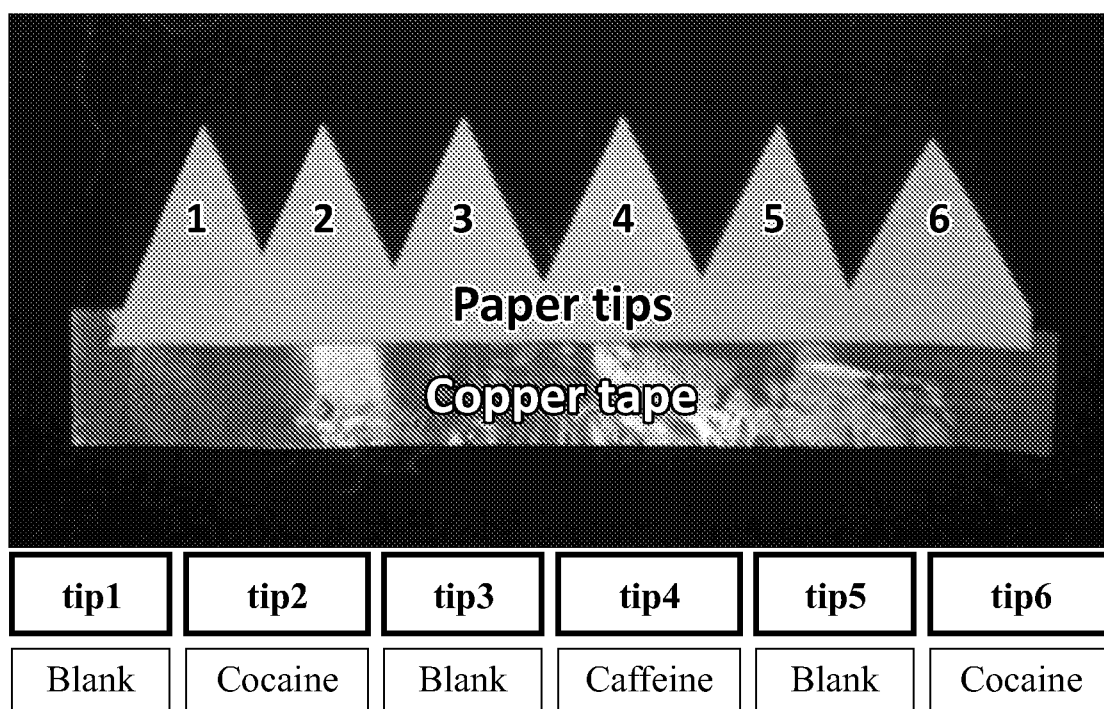
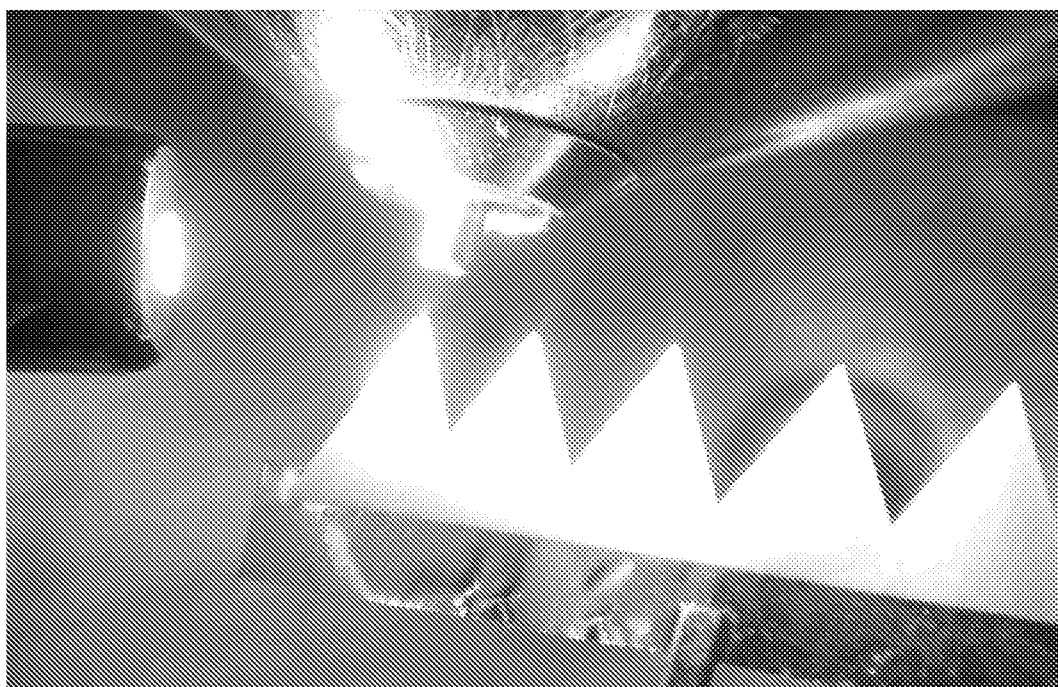


FIG. 28B



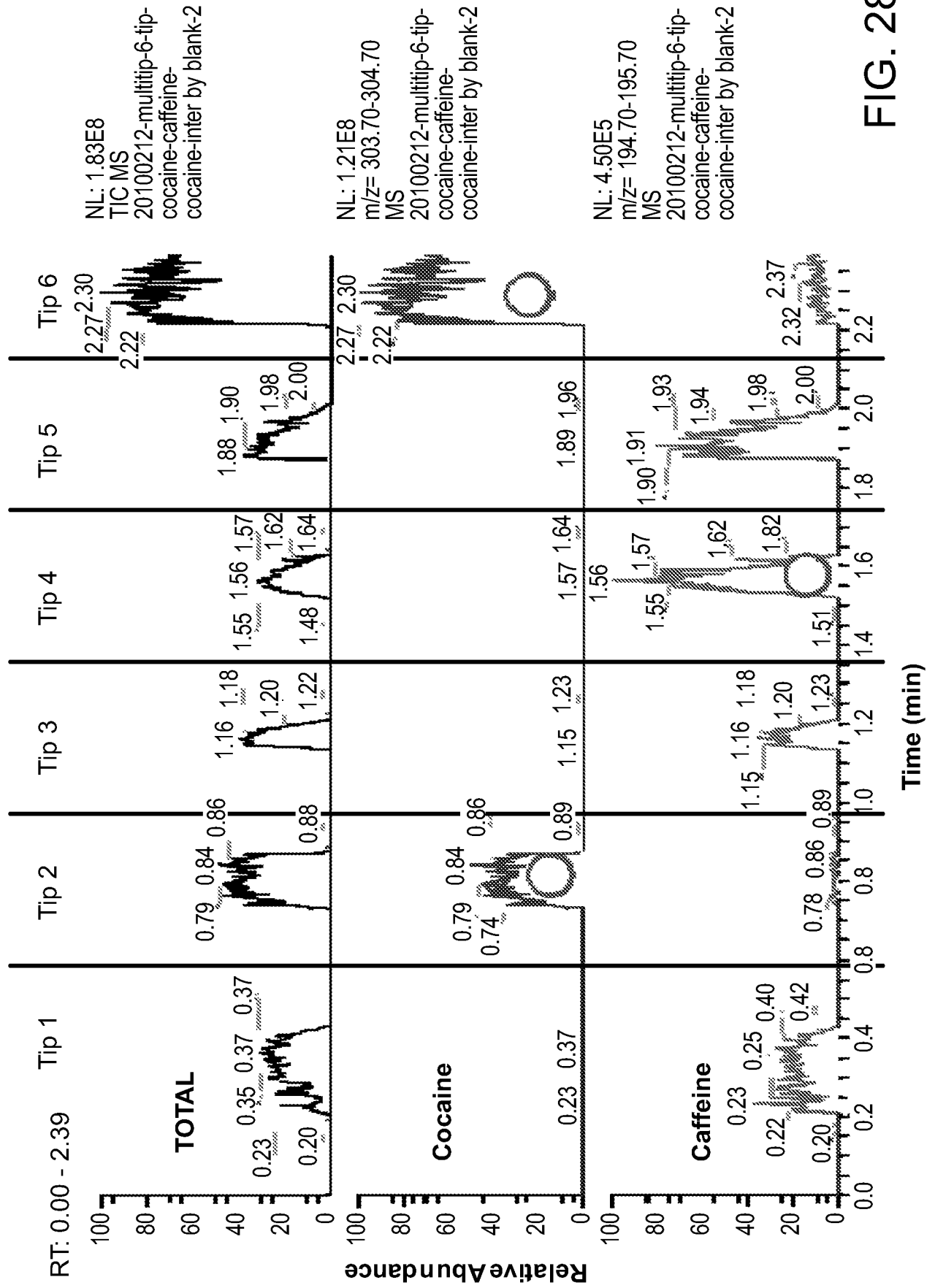


FIG. 28C

FIG. 29A

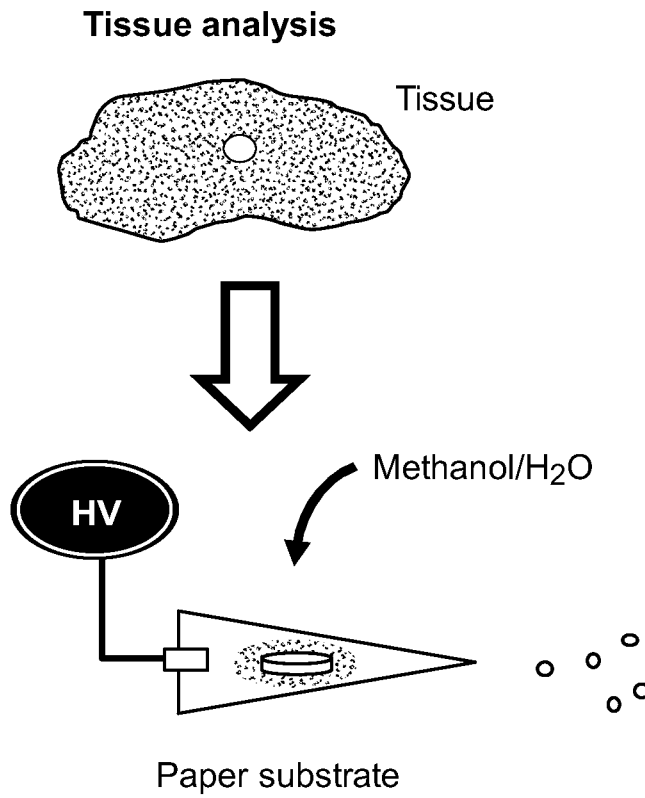


FIG. 29B

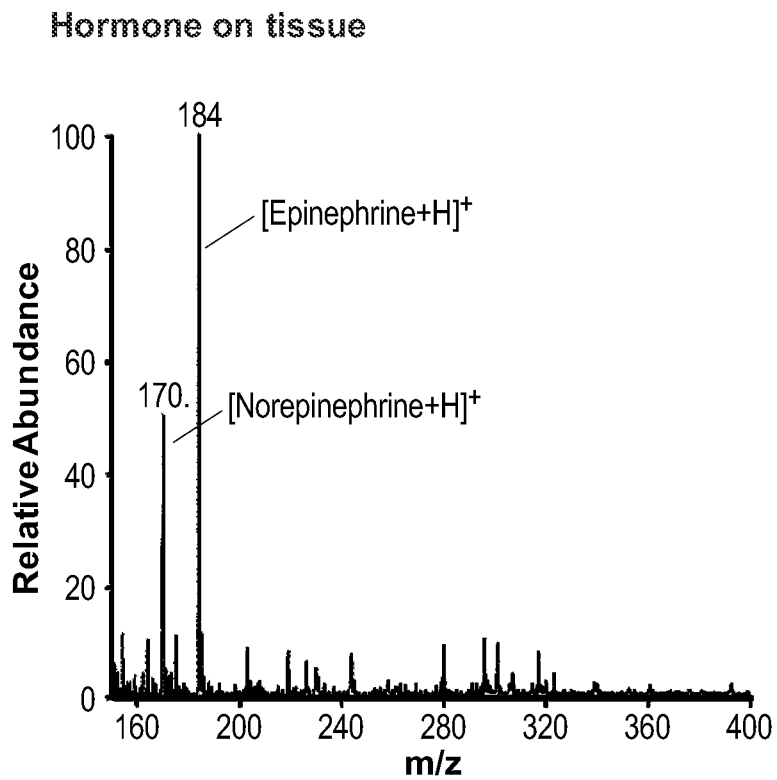


FIG. 29C

Lipids on tumor section

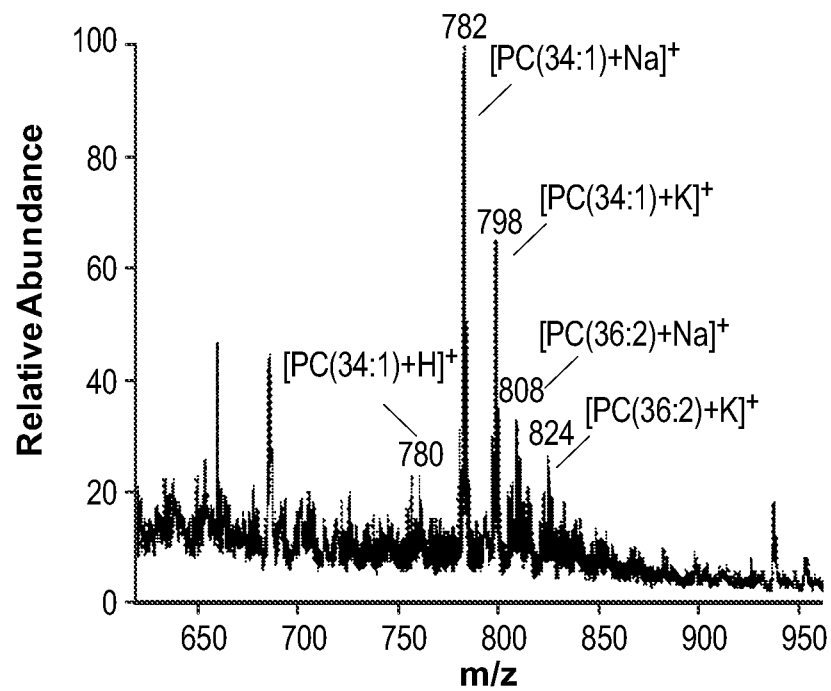


FIG. 29D

Lipids on non-tumor section

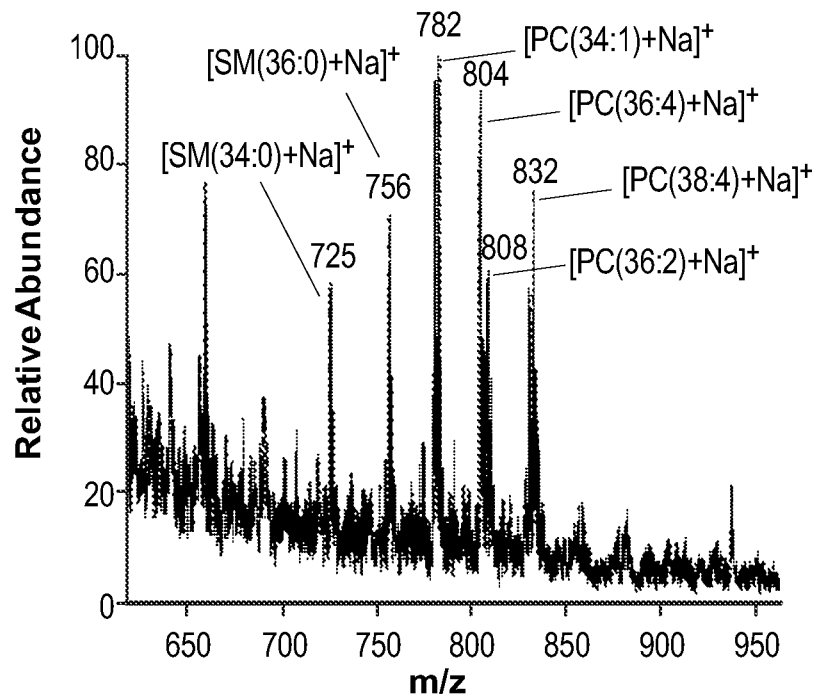


FIG. 30A

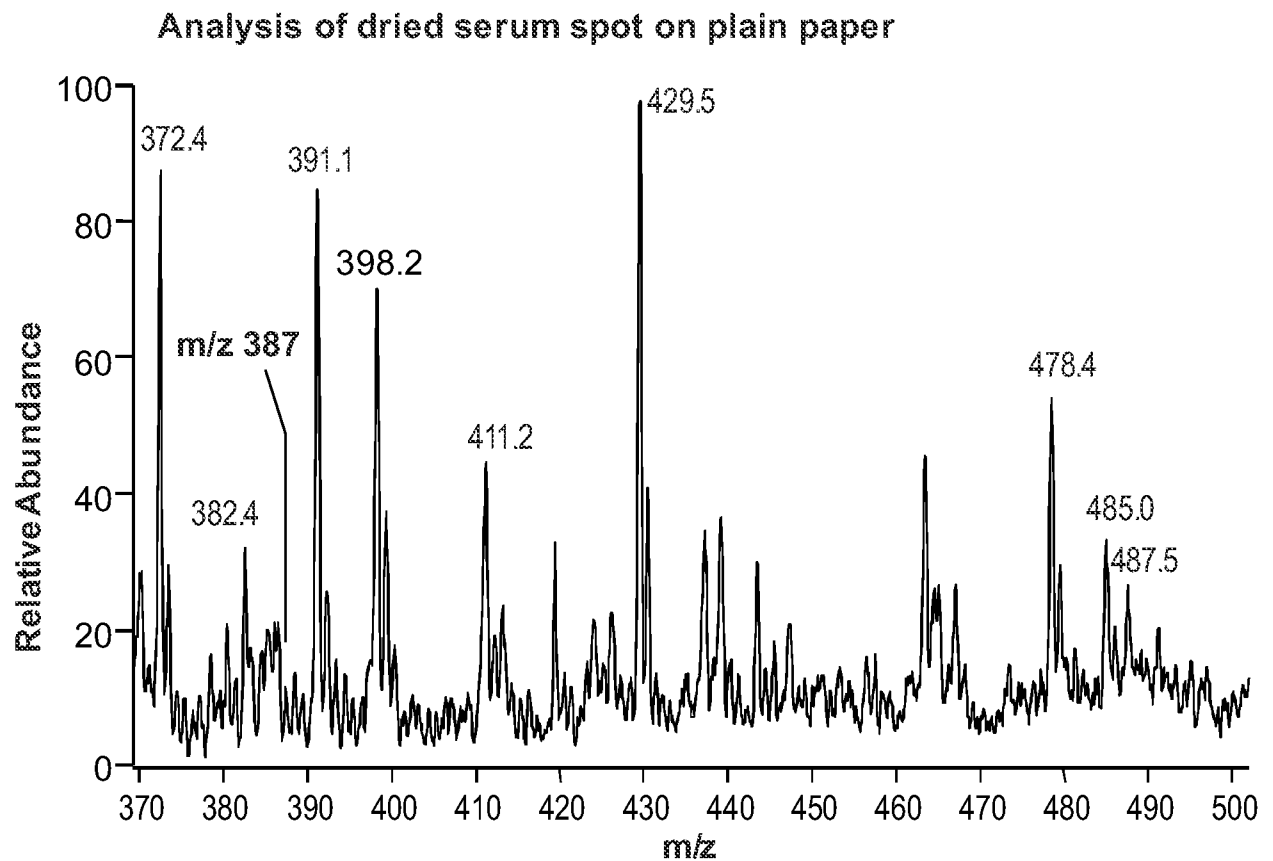


FIG. 30B

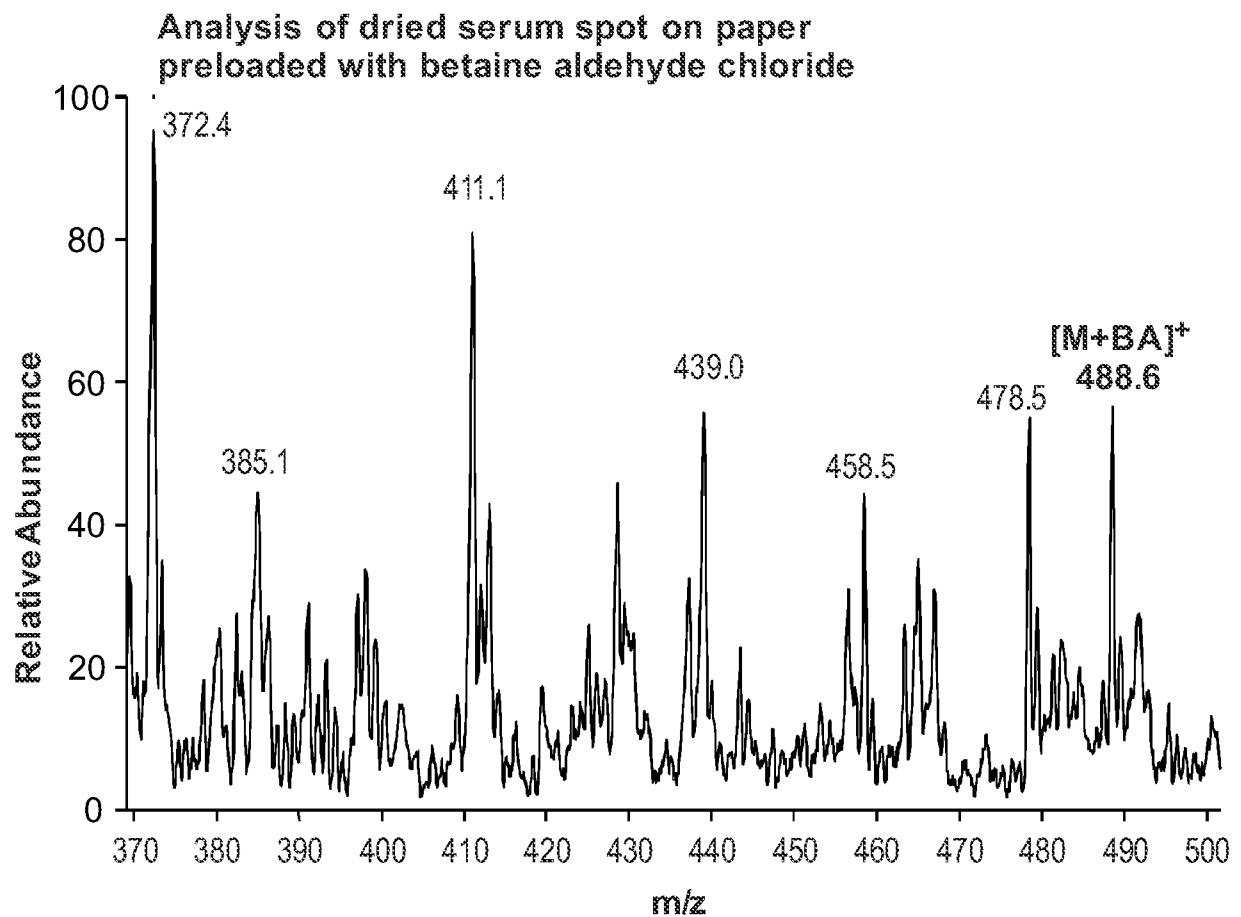
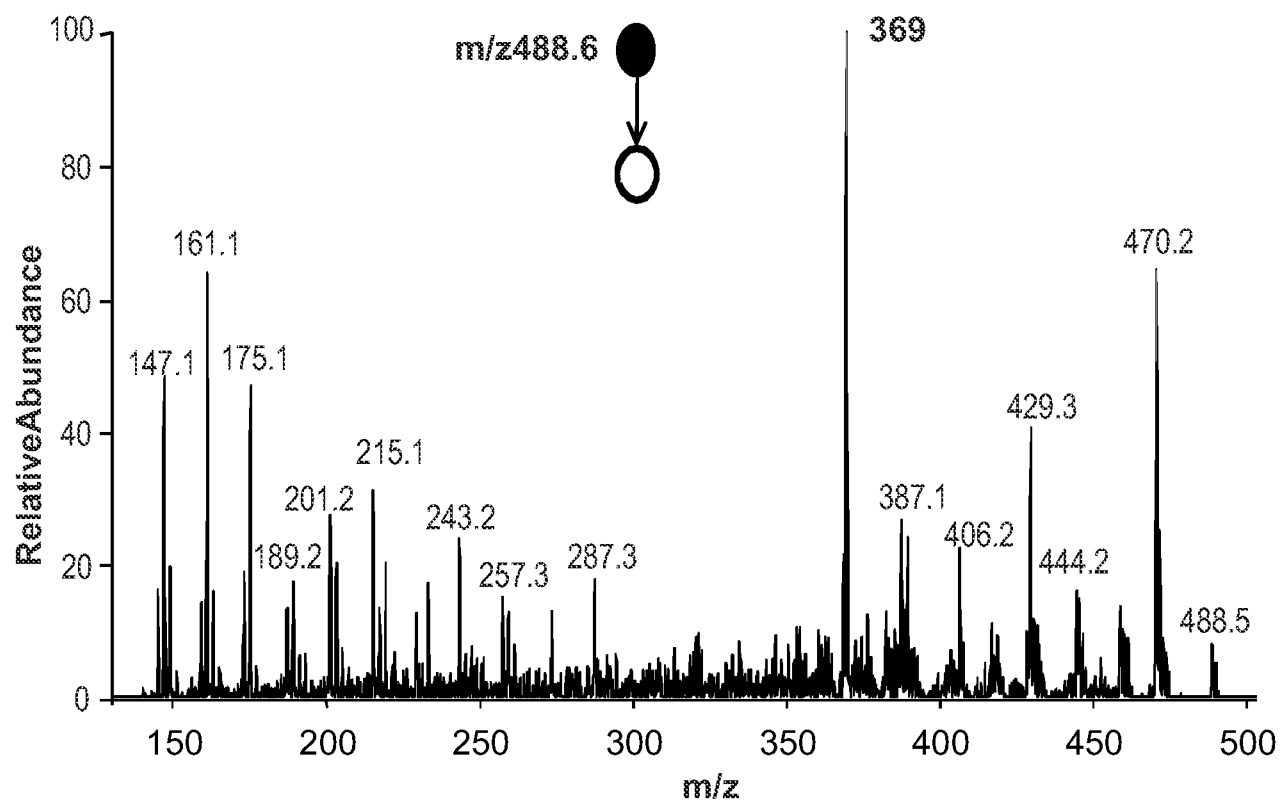


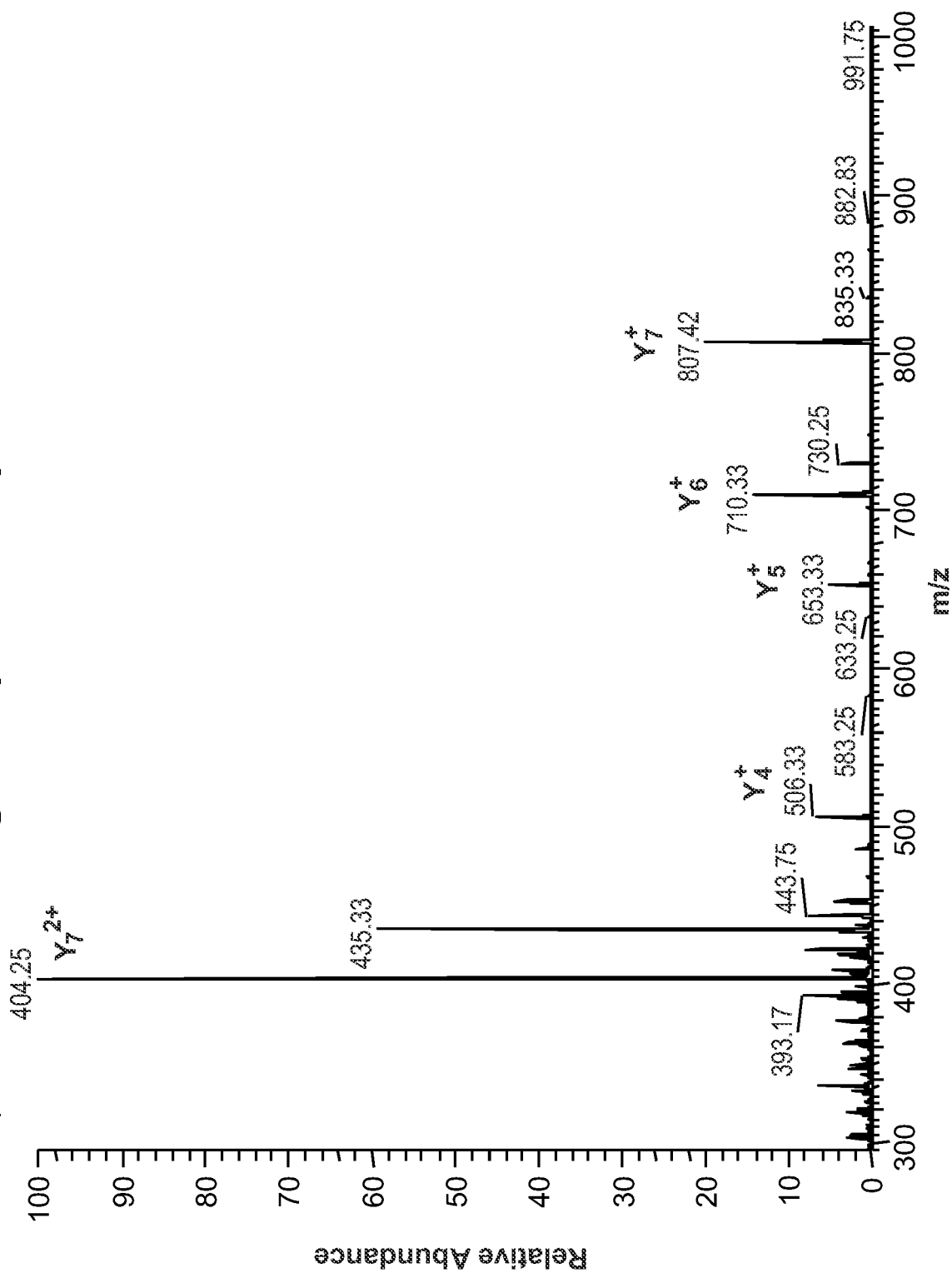
FIG. 30C

MS/MS spectrum of reaction product $[M+BA]^+(m/z488.6)$



20100221-photoresist-2-wash-meoh#409-442 RT: 1.83-1.97 AV: 34 NL: 5.66E3
T: ITMS + p NSI Full ms2 453.00@cid30.00 [120.00-1200.00]

FIG. 31A



20100221-photoresist-4-normal paper-wash-mech-100 ppm BK9#260-296 RT: 1.64-1.84 AV:37 NL:3.28E1T:
ITMS + p NSI Full ms2 453.00@cid30.00 [120.00-1200.00]

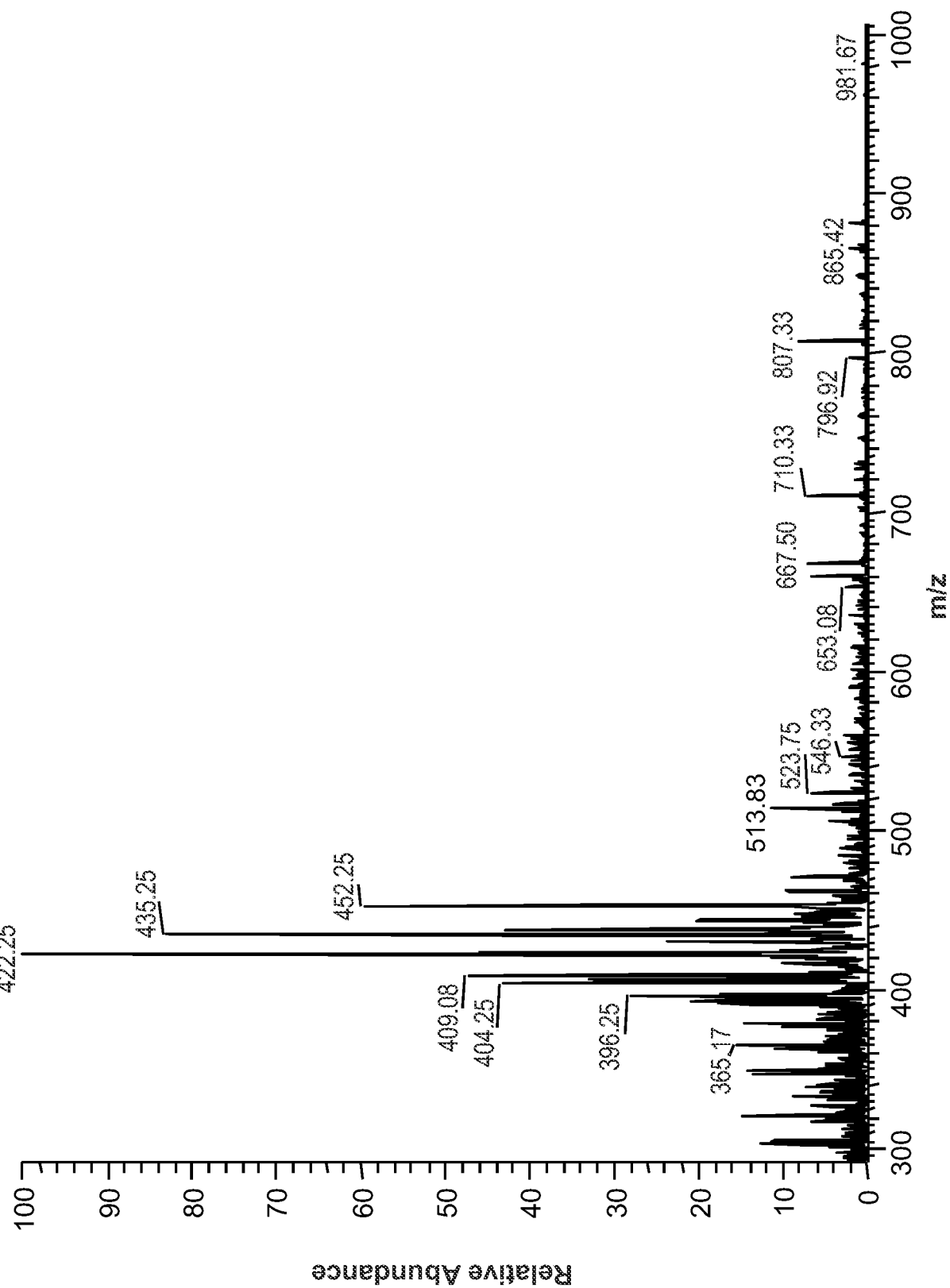


FIG. 31B

new power pure water spray neg for toluene and hexane normal scan #743-765 RT: 4.03-4.12 AV: 23SB:1453.26-3.92 NL: 9.94E4
T: ITMS + p ESI Full ms [5000-200.00]

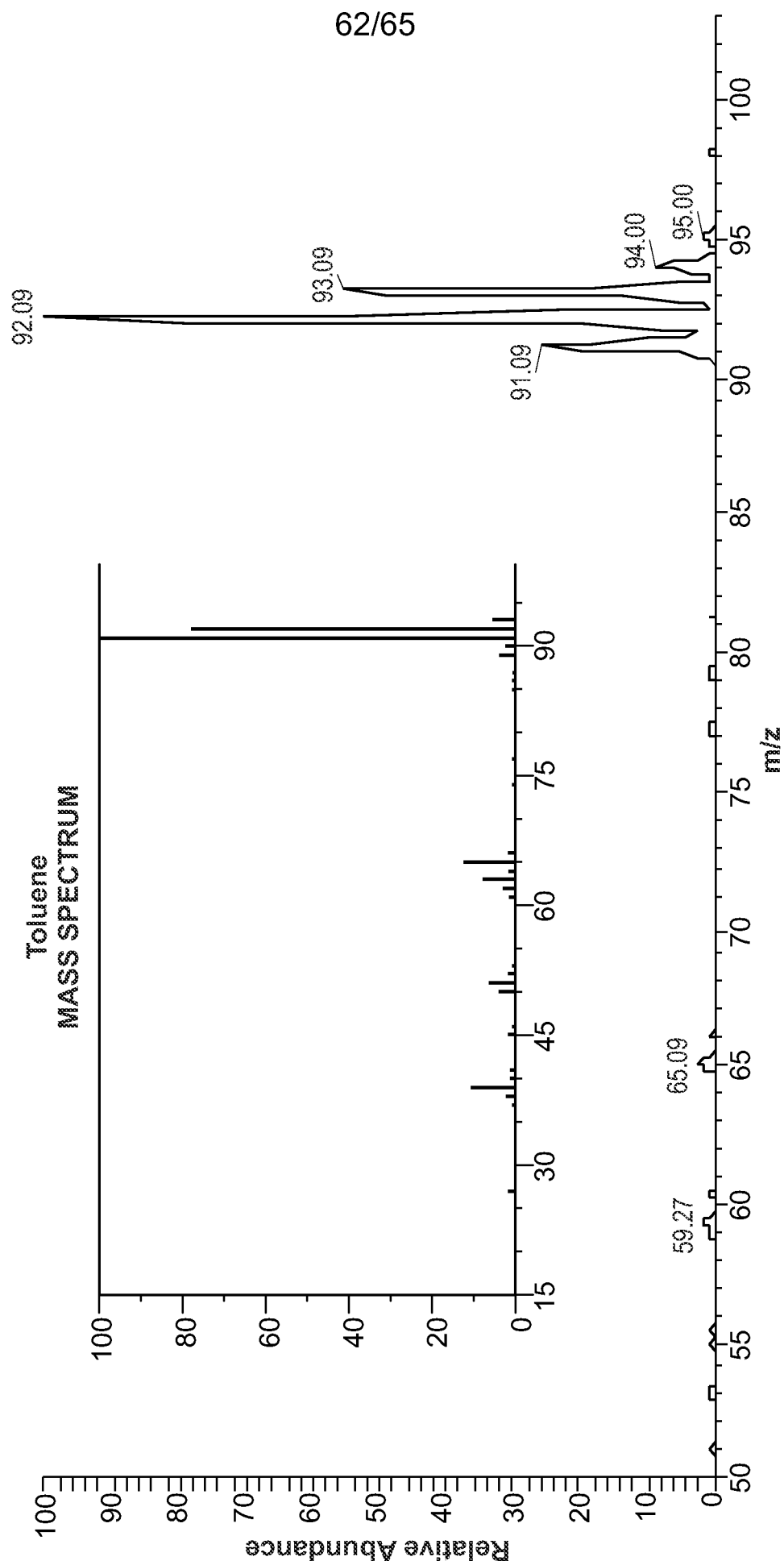


FIG. 32

FIG. 33A

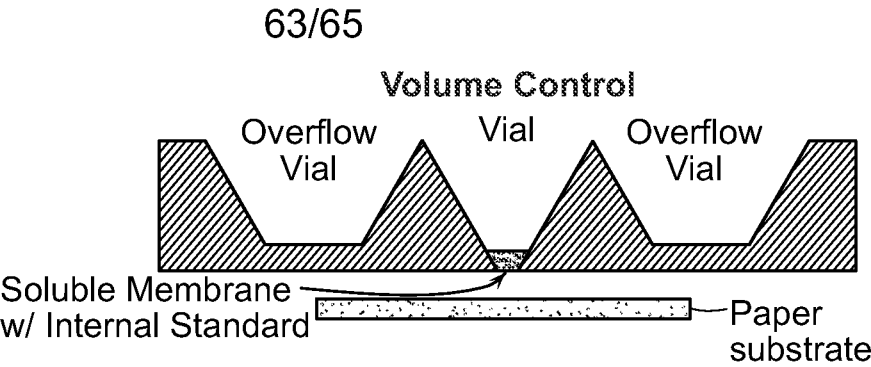


FIG. 33B

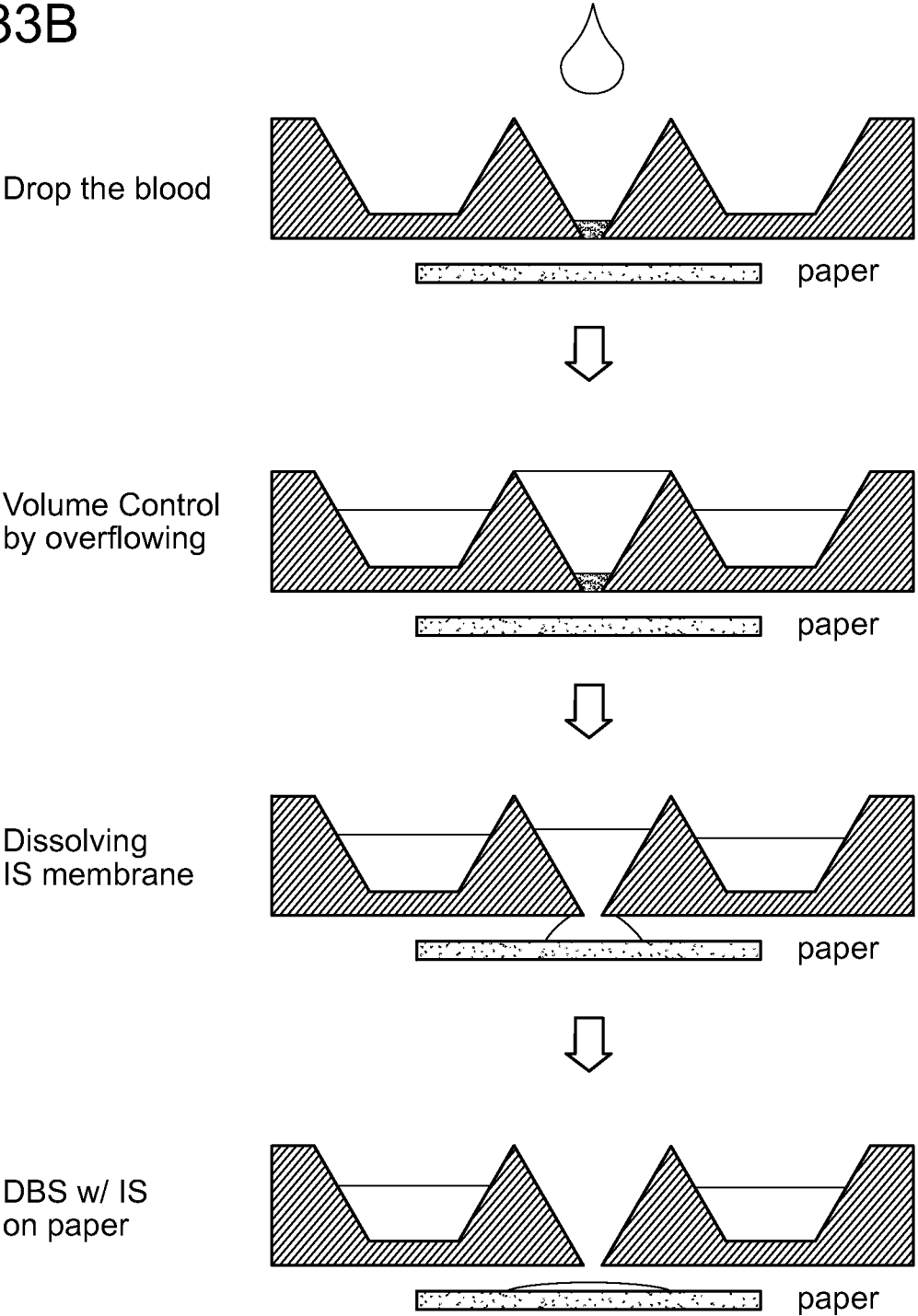


FIG. 34A

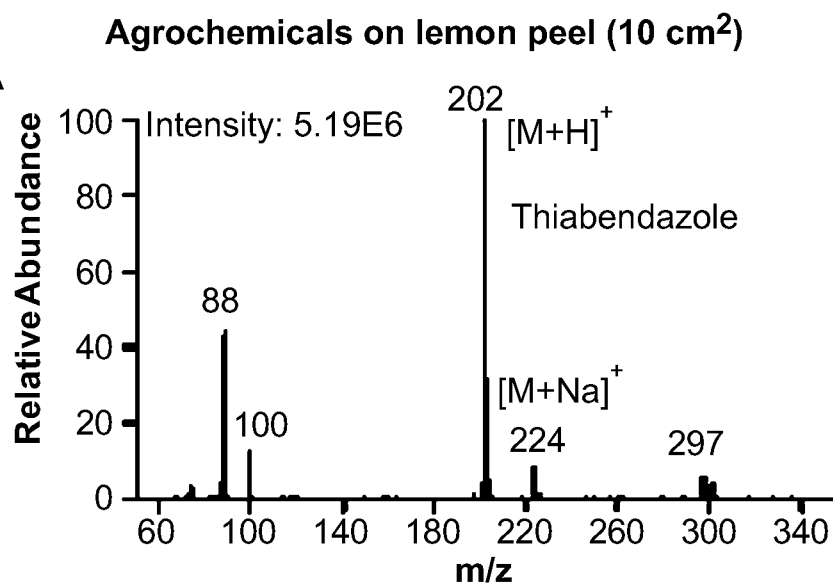
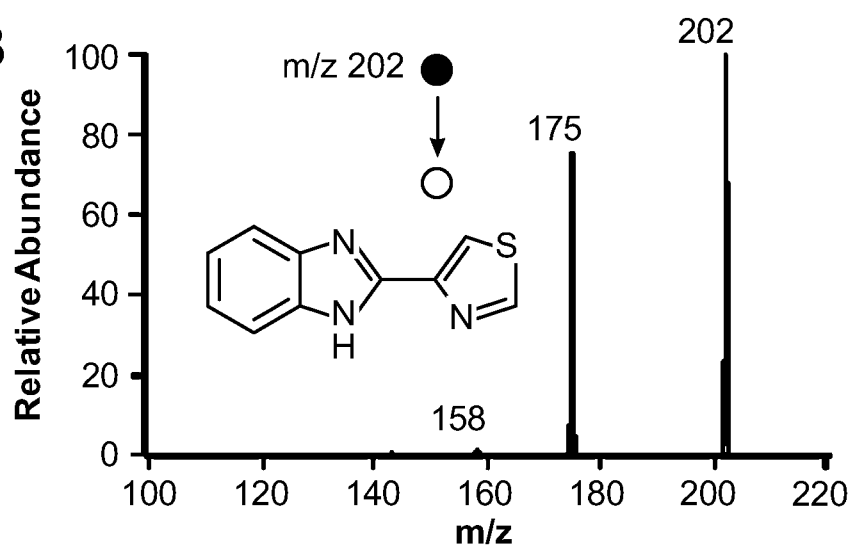


FIG. 34B



Spray Tip

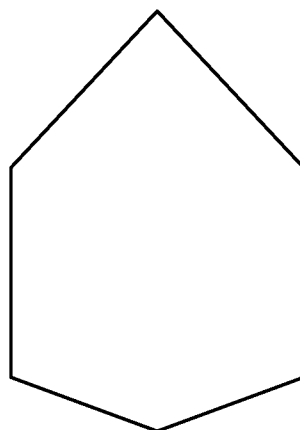


FIG 35

FIG. 36A

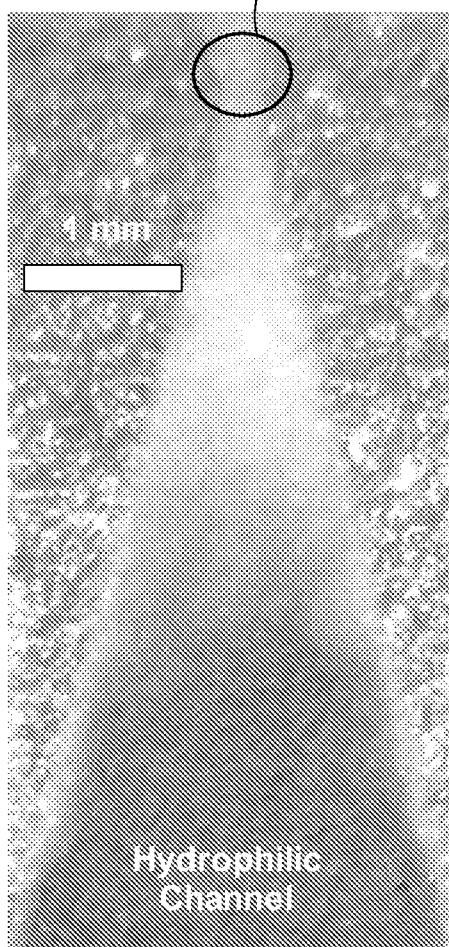


FIG. 36B

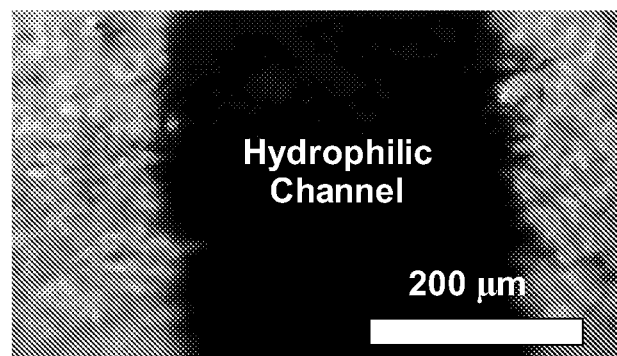


FIG. 36C

