

Supporting Information

**BF₃·OEt₂ Promoted chemoselective C=C bond cleavage of α,β -enones:
An unexpected synthesis of 3-alkylated oxindoles and spiro-indolooxiranes**

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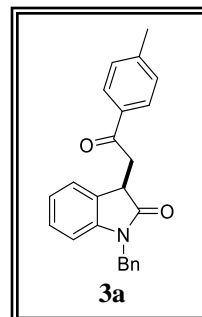
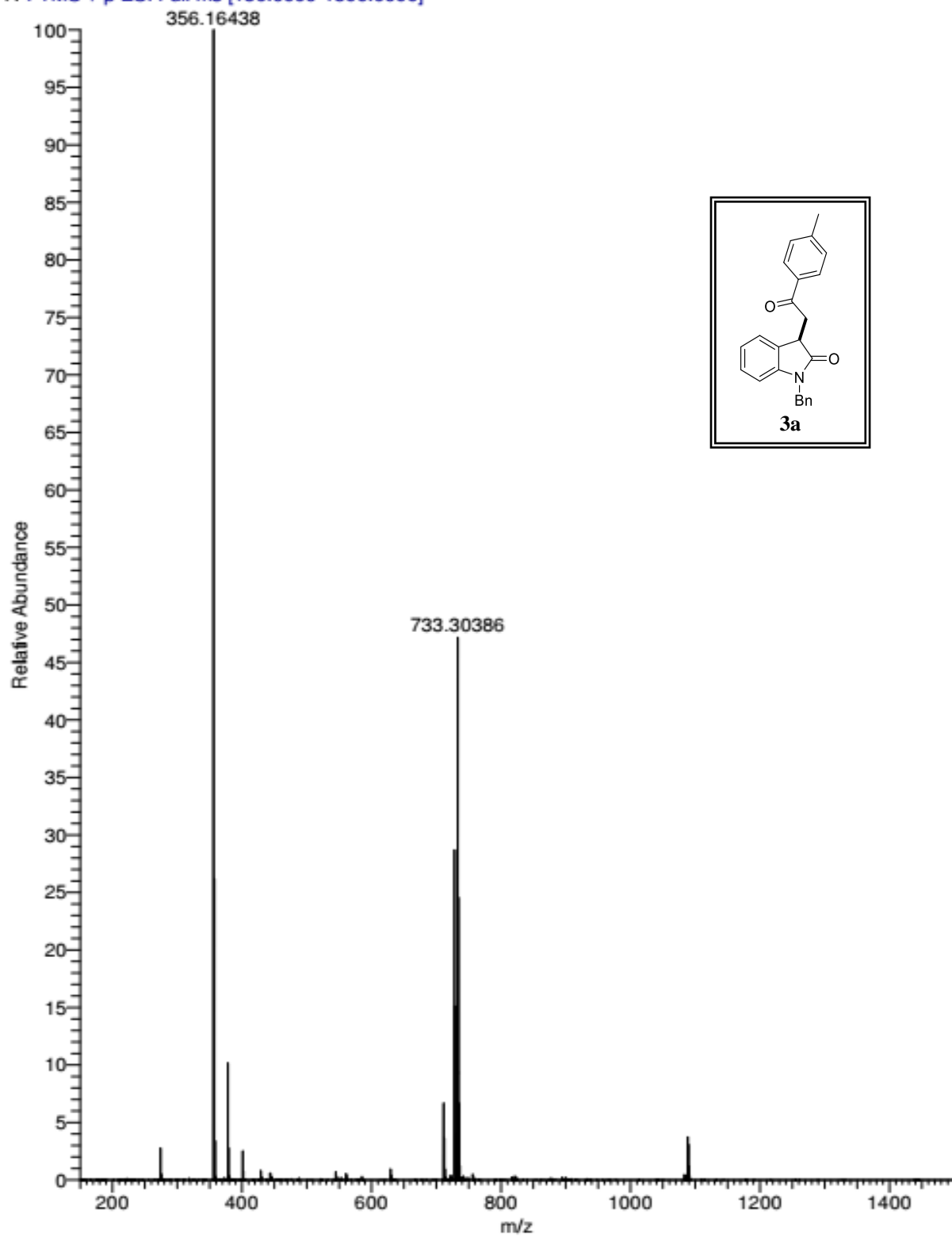
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HRMS spectra for compounds **3, 3aa, 6, 7, 9a, 10, 11, 12, 13**

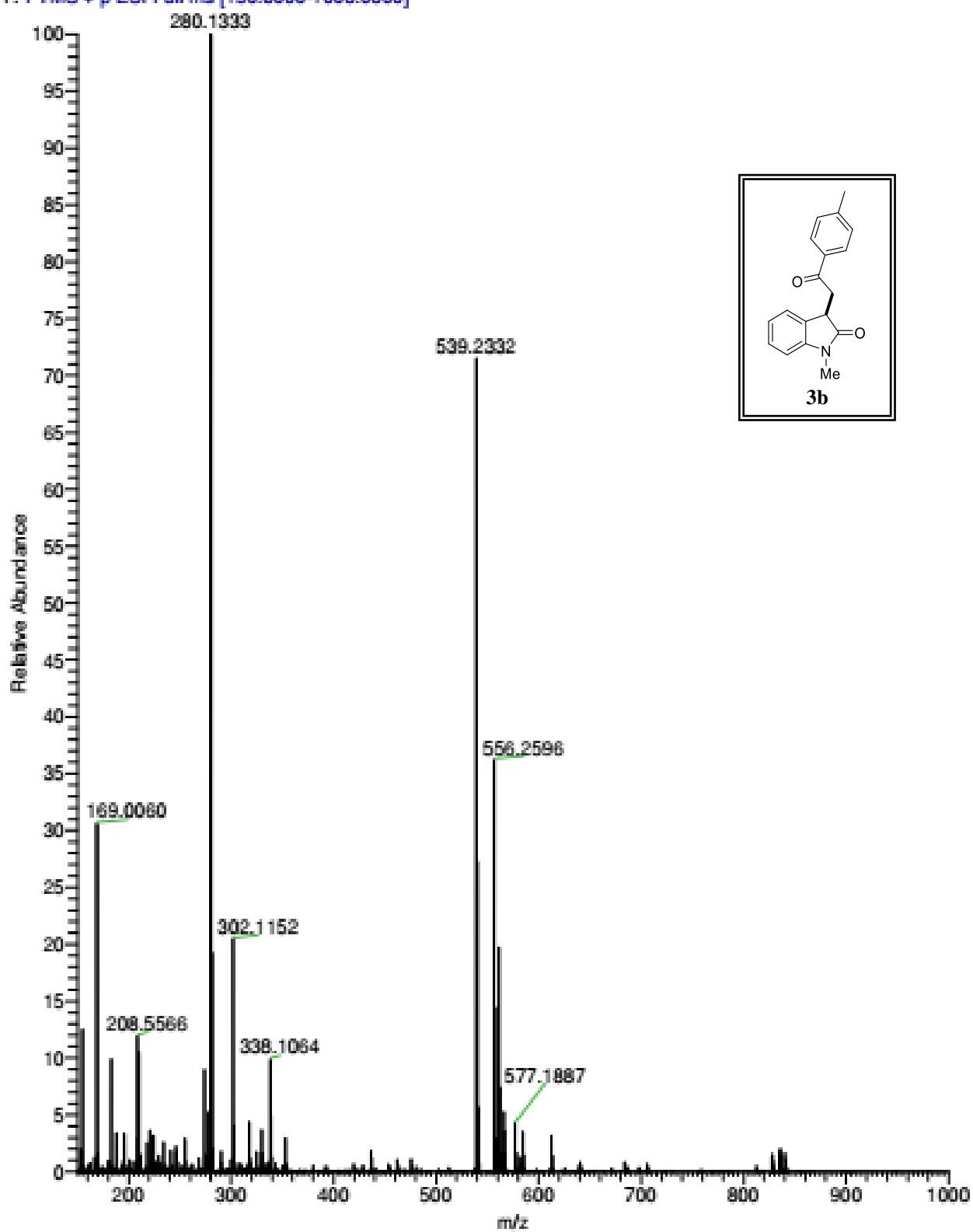
Compound 3a

quino #67-74 RT: 0.69-0.75 AV: 4 SB: 36 0.17-0.47, 1.39-1.80 NL: 9.09E7
T: FTMS + p ESI Full ms [150.0000-1500.0000]



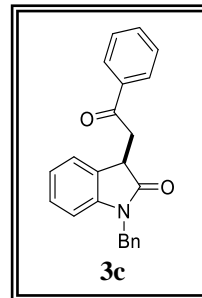
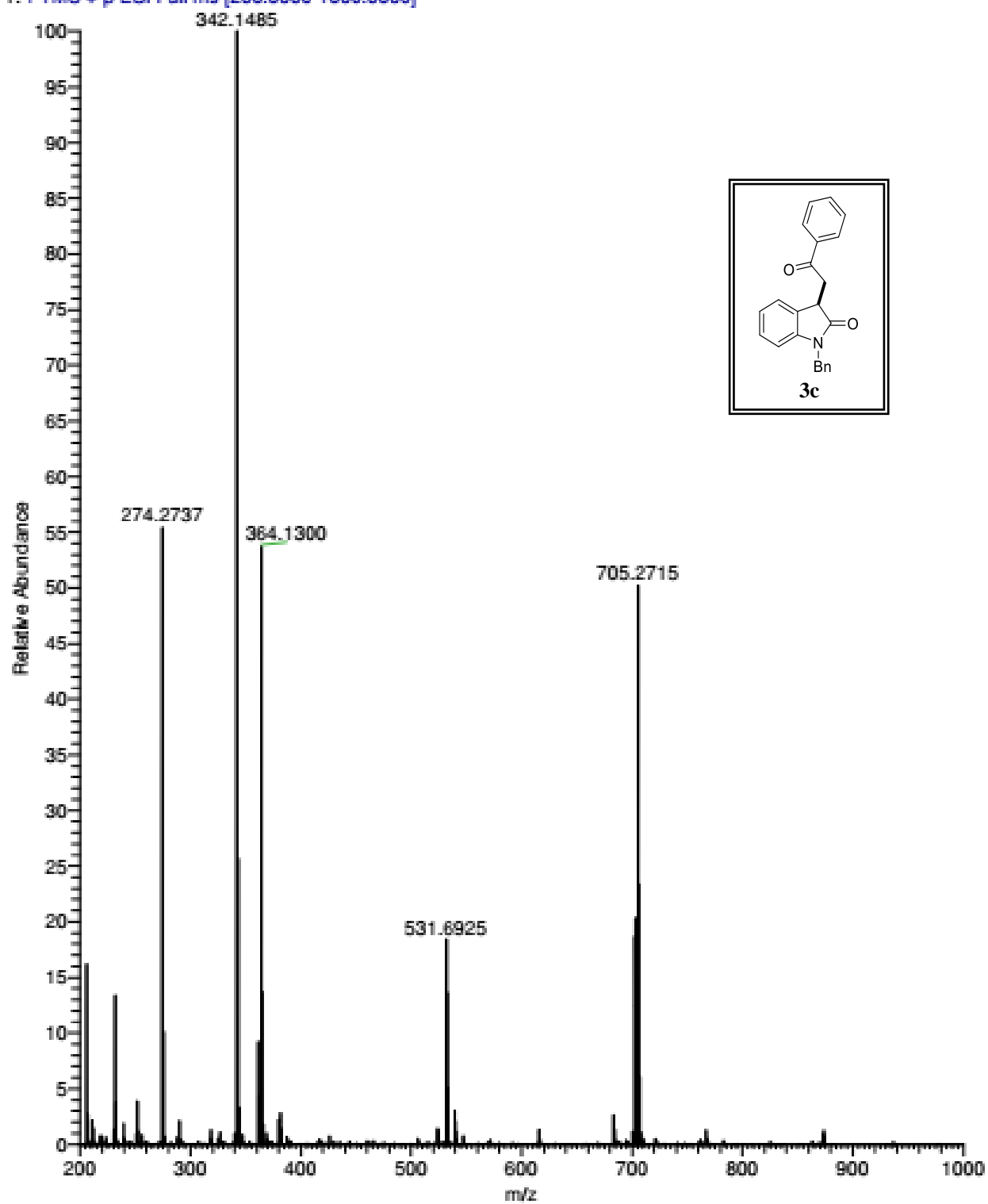
Compound 3b

APR-12 #85 RT: 0.64 AV: 1 NL: 1.13E8
T: FTMS + p ESI Full ms [150.0000-1000.0000]



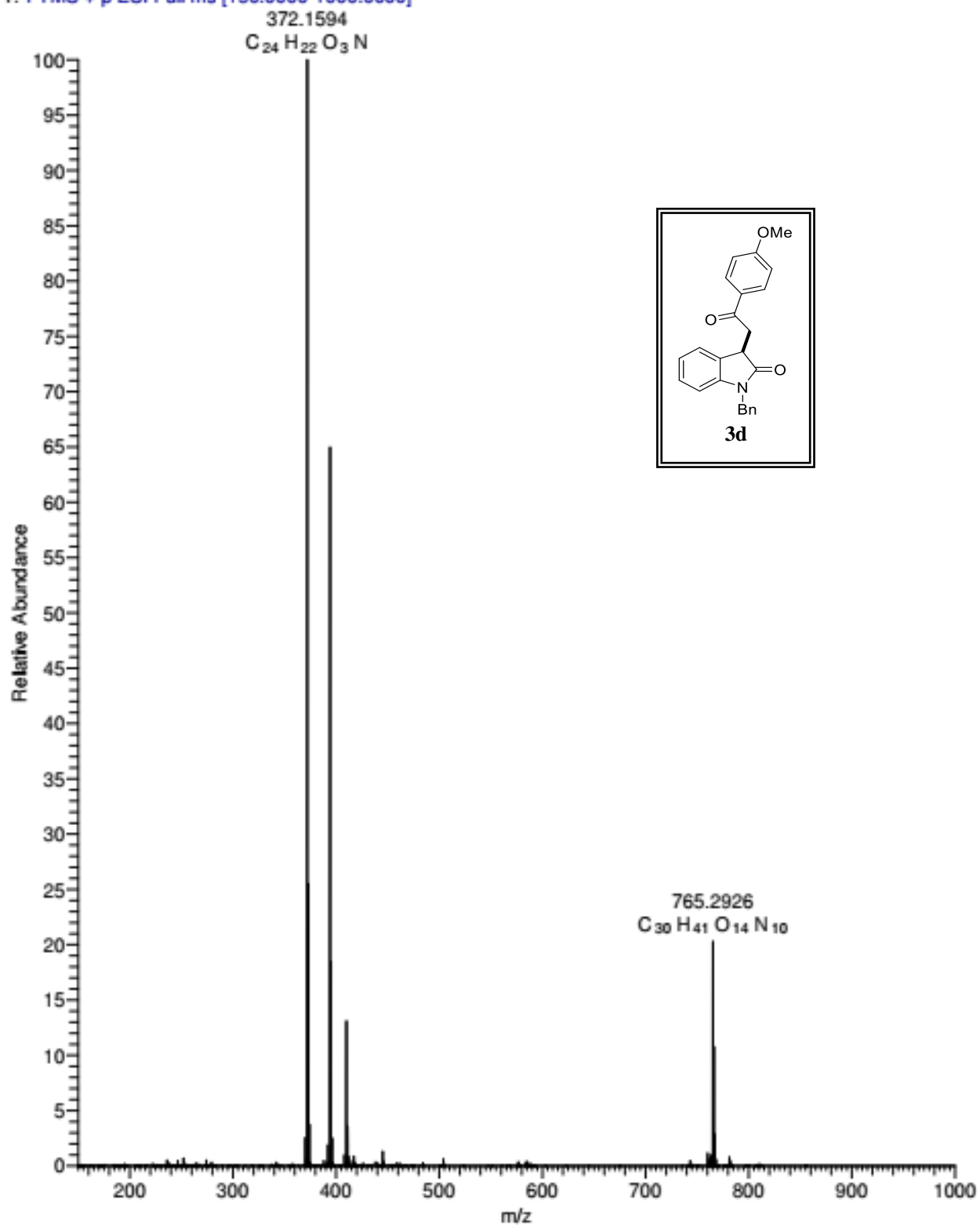
Compound 3c

APR-144 #50 RT: 0.50 AV: 1 NL: 3.18E8
T: FTMS + p ESI Full ms [200.0000-1000.0000]



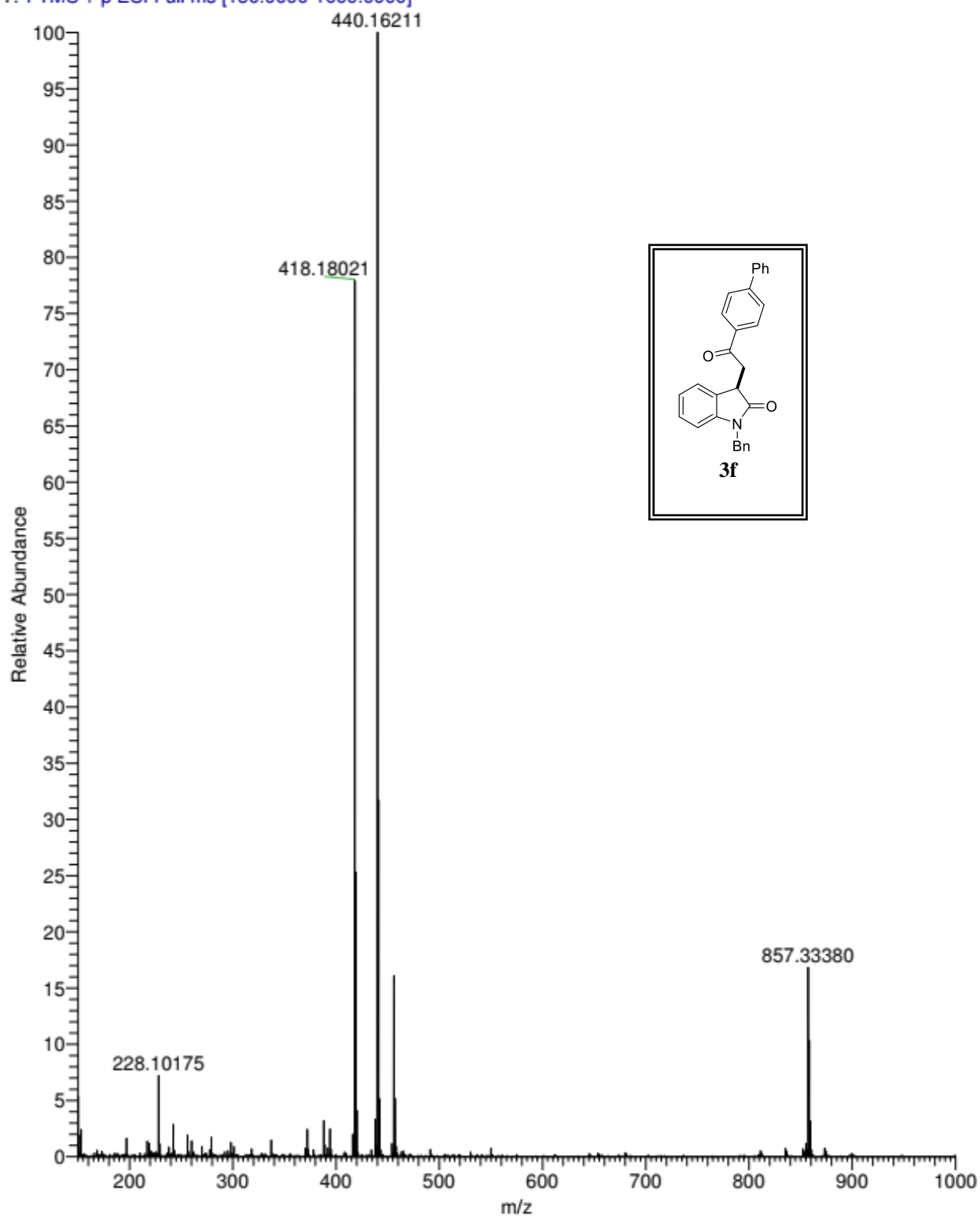
Compound 3d

APR-348_20190702170159 #33 RT: 0.34 AV: 1 NL: 4.17E8
T: FTMS + p ESI Full ms [150.0000-1000.0000]



Compound 3f

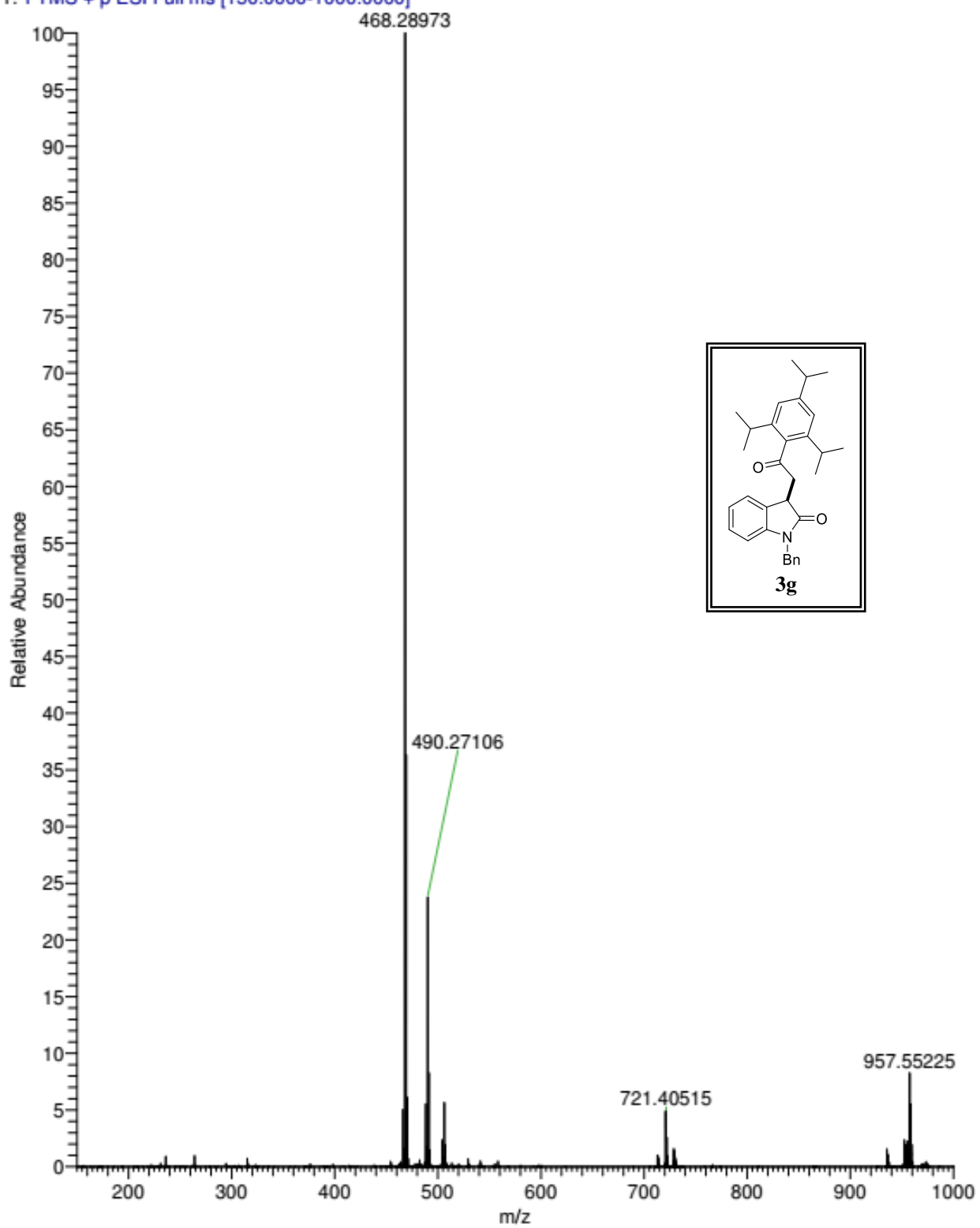
APR-365_20190702170637 #33 RT: 0.34 AV: 1 NL: 1.13E8
T: FTMS + p ESI Full ms [150.0000-1000.0000]



Compound 3g

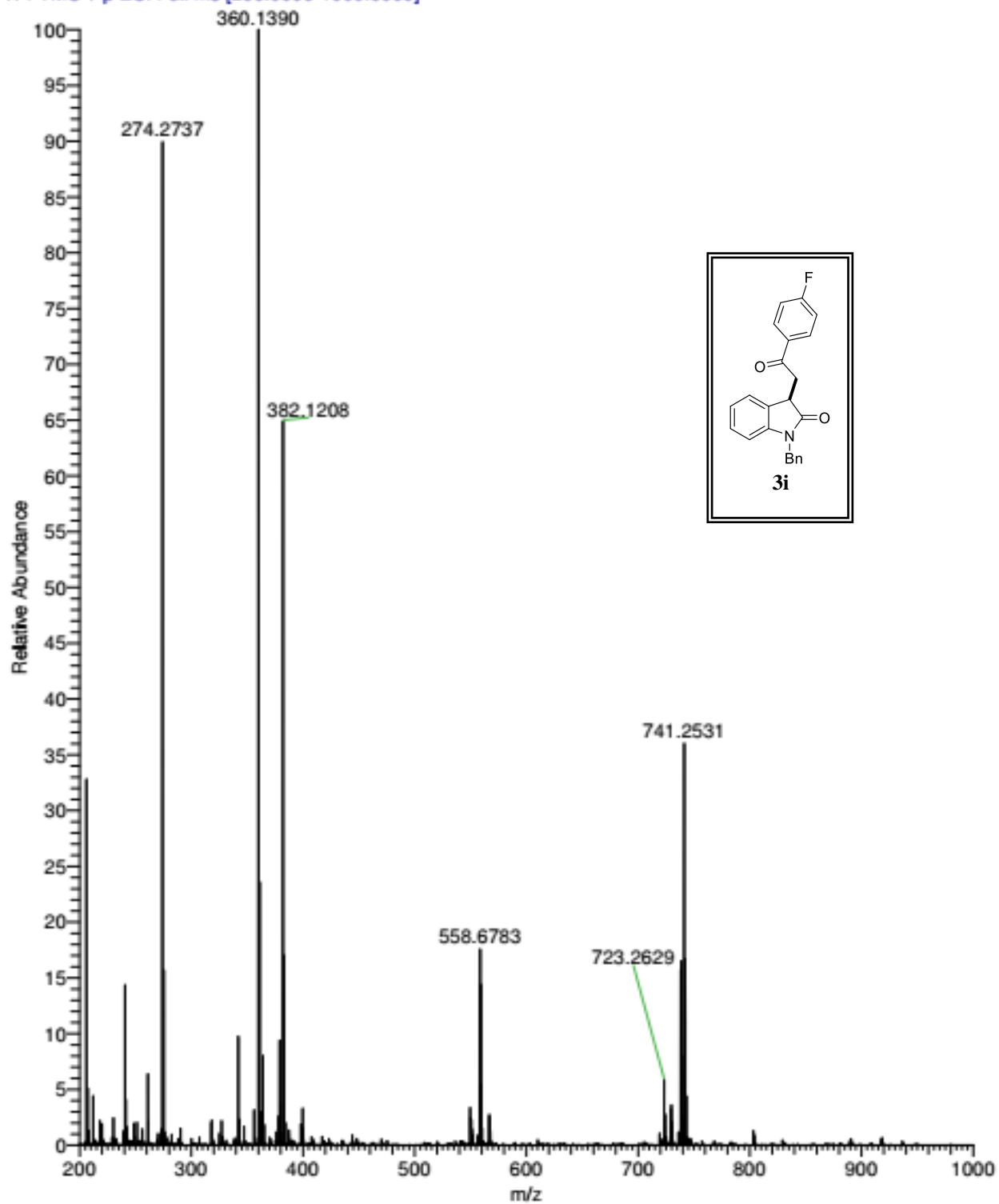
APR-384_20190702171210 #53 RT: 0.54 AV: 1 NL: 2.79E8

T: FTMS + p ESI Full ms [150.0000-1000.0000]



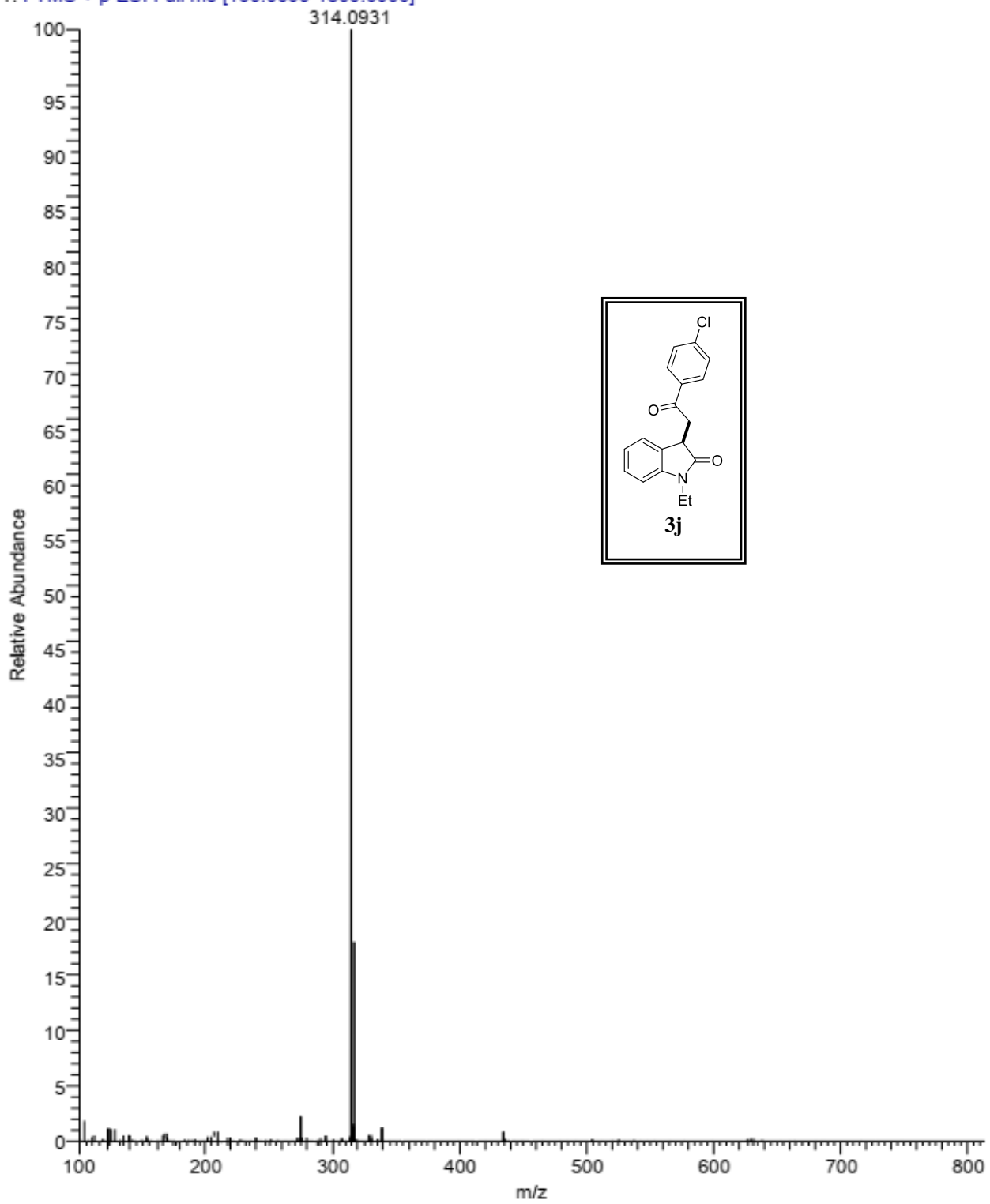
Compound 3i

APR-41 #28 RT: 0.29 AV: 1 NL: 1.59E8
T: FTMS + p ESI Full ms [200.0000-1000.0000]



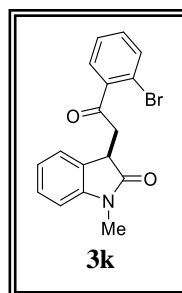
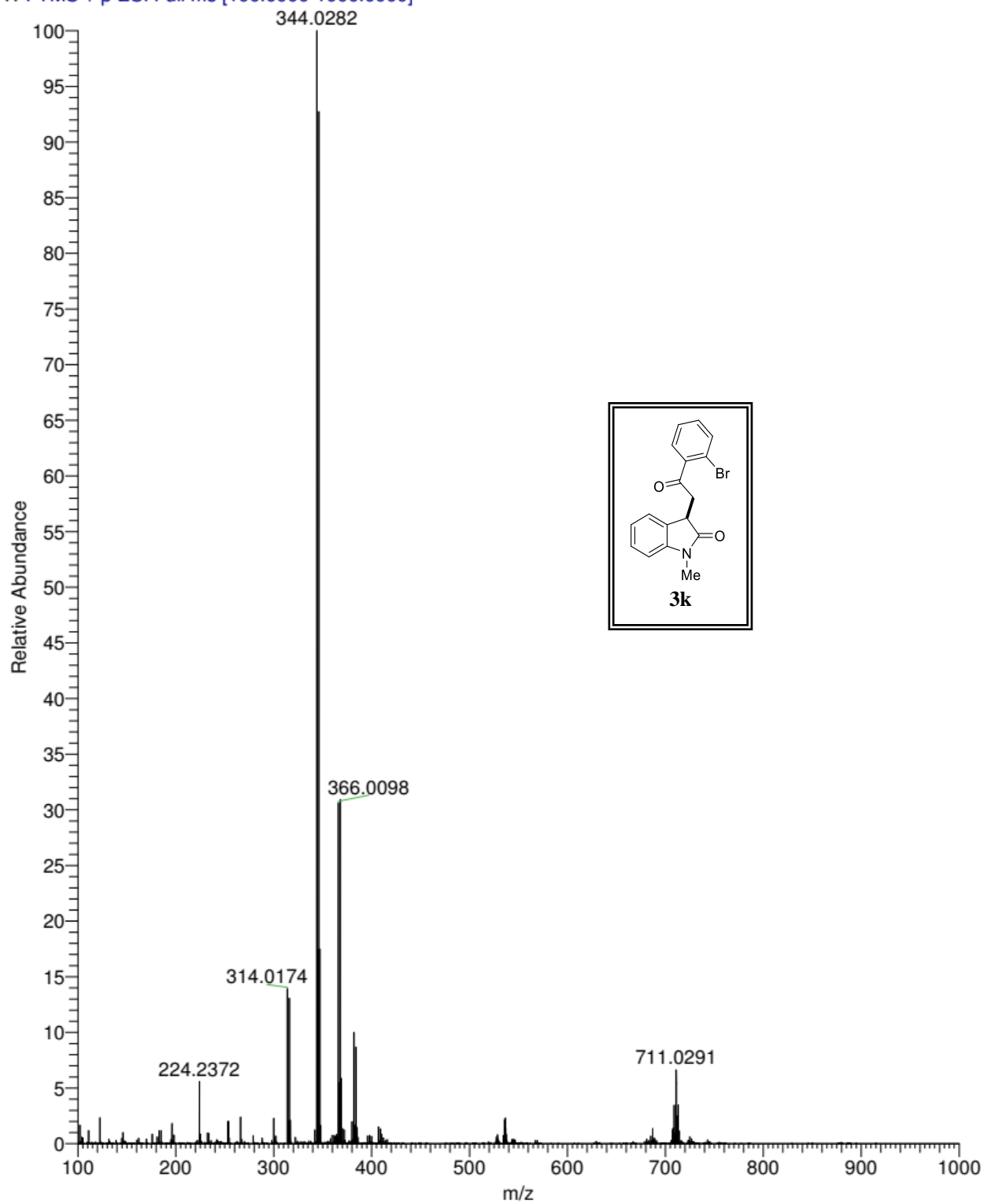
Compound 3j

APR-151 #74 RT: 0.71 AV: 1 NL: 4.41E9
T: FTMS + p ESI Full ms [100.0000-1500.0000]



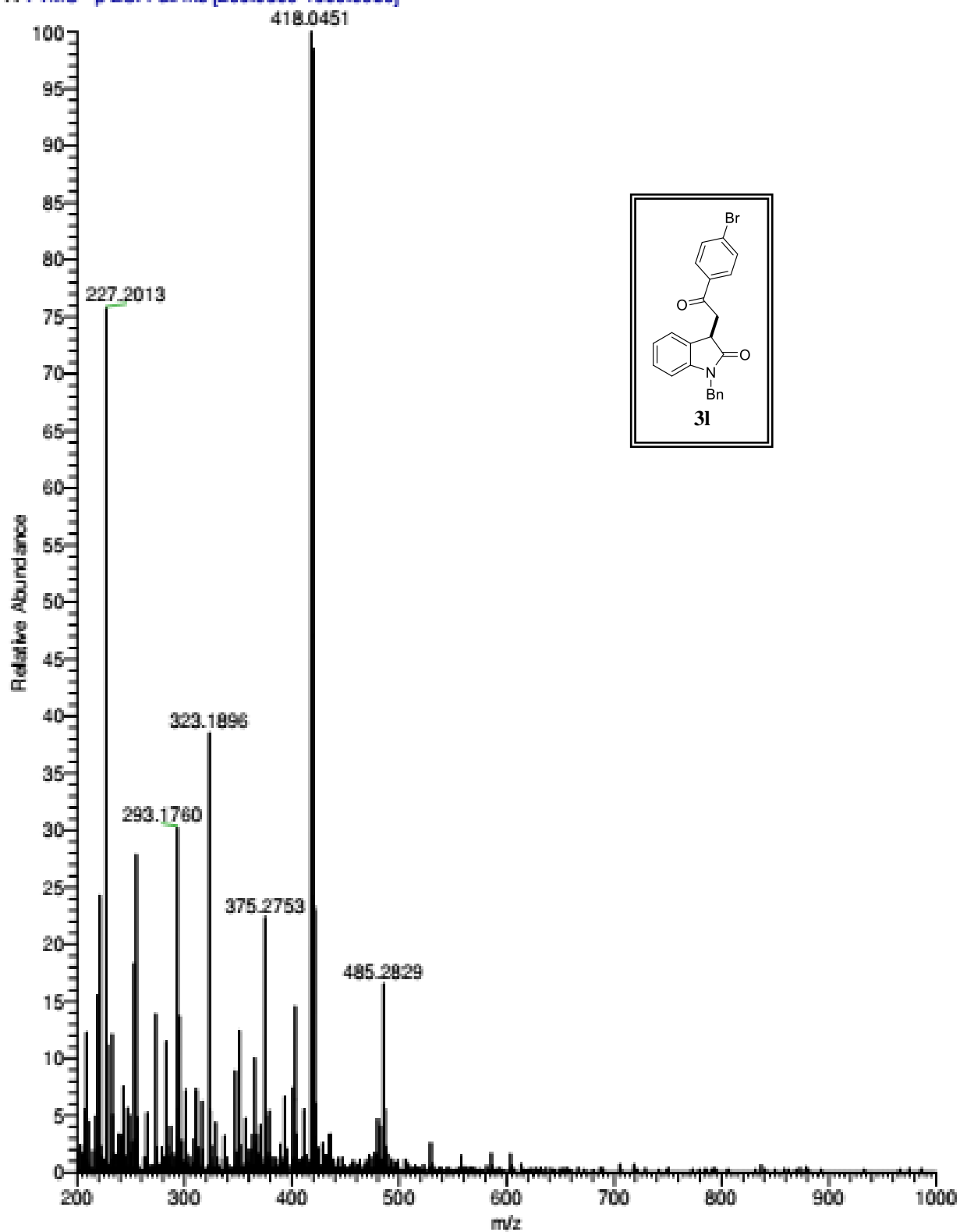
Compound 3k

APR-562 #55 RT: 0.55 AV: 1 NL: 3.54E8
T: FTMS + p ESI Full ms [100.0000-1000.0000]



Compound 31

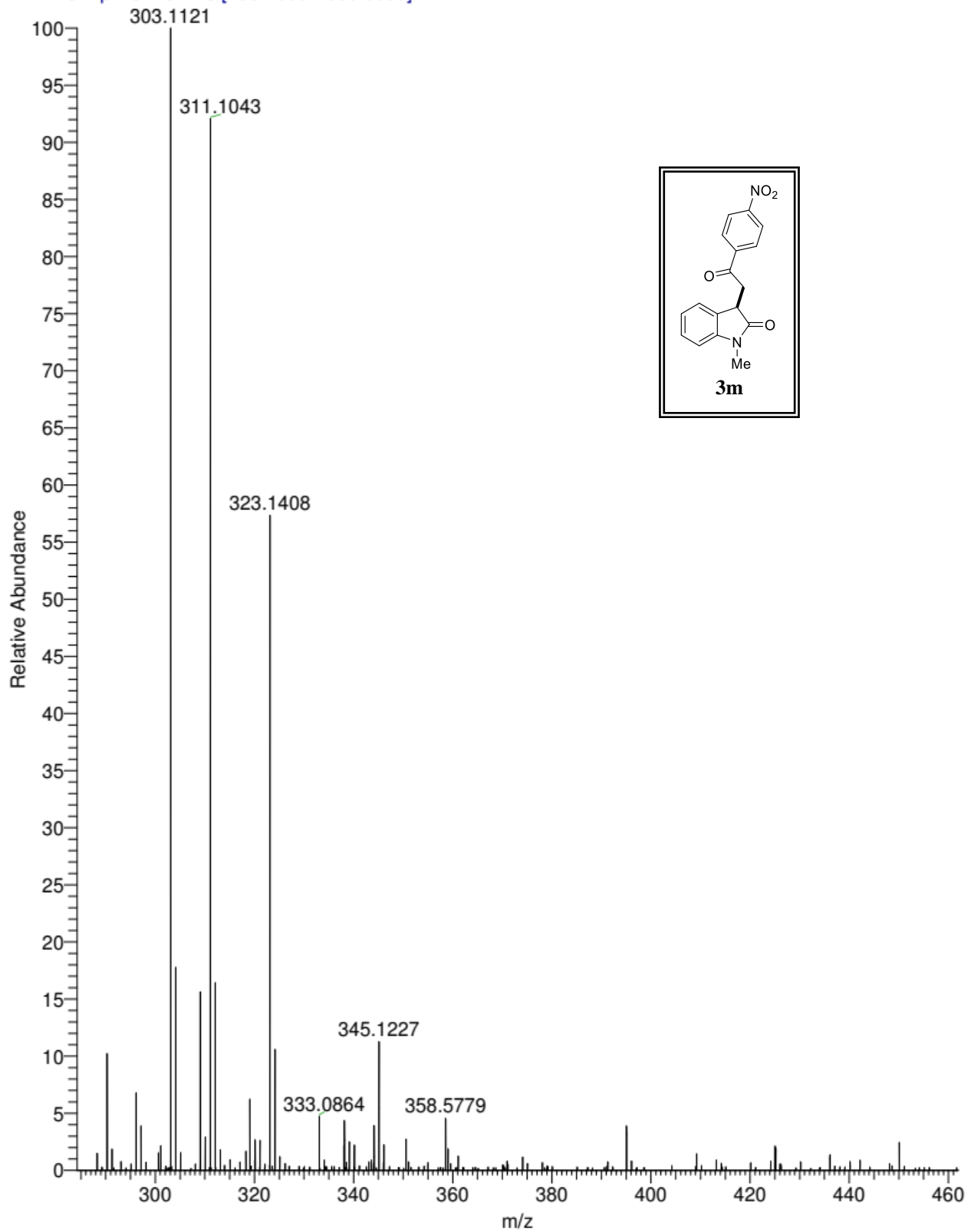
APR-45 #27 RT: 0.28 AV: 1 NL: 1.95E6
T: FTMS - p ESI Full ms [200.0000-1000.0000]



Compound **3m**

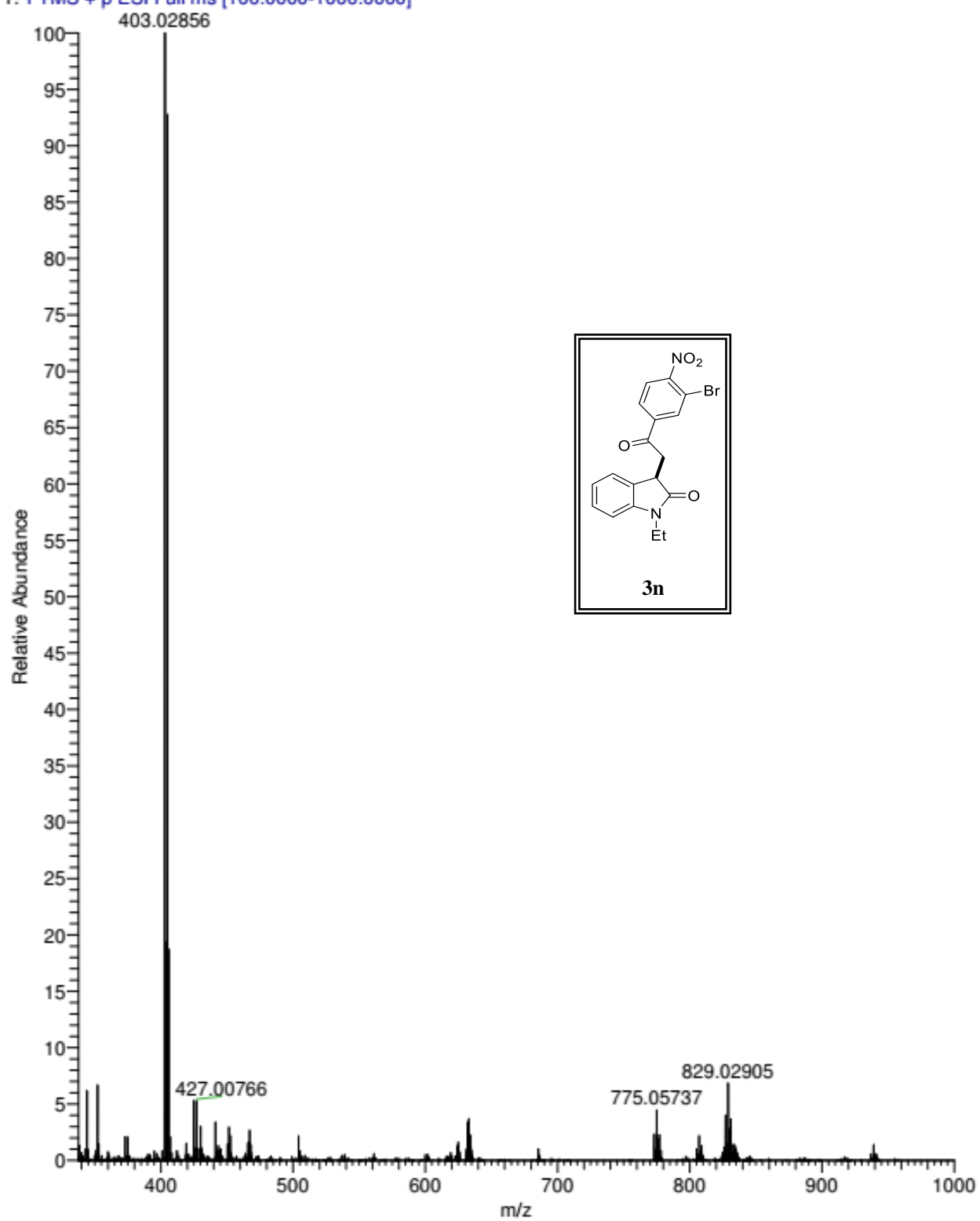
APR-562_20210210172040 #58 RT: 0.57 AV: 1 NL: 3.77E7

T: FTMS + p ESI Full ms [133.4000-2000.0000]



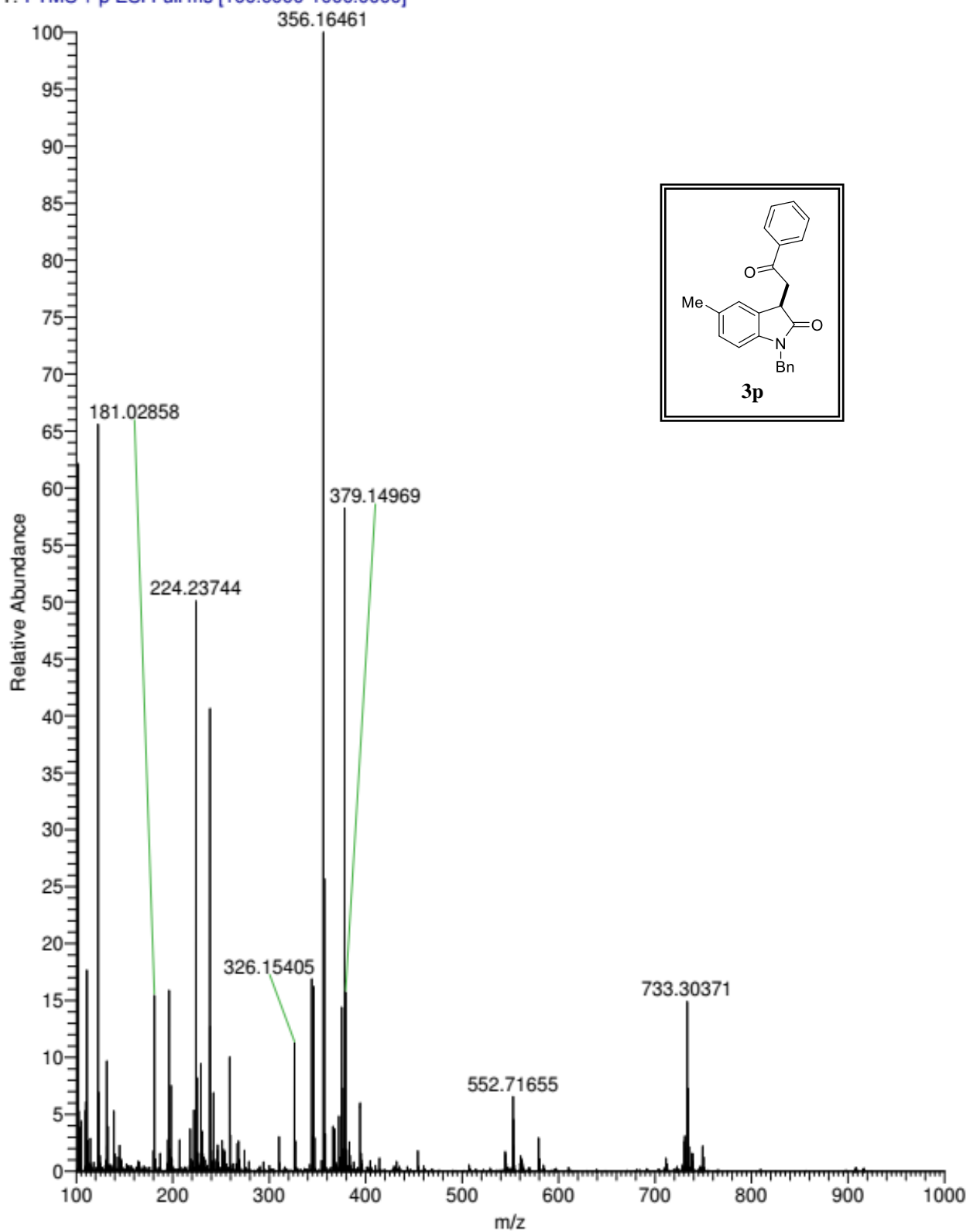
Compound 3n

APR-343_20201016172510 #45 RT: 0.45 AV: 1 NL: 2.93E7
T: FTMS + p ESI Full ms [100.0000-1000.0000]



Compound 3p

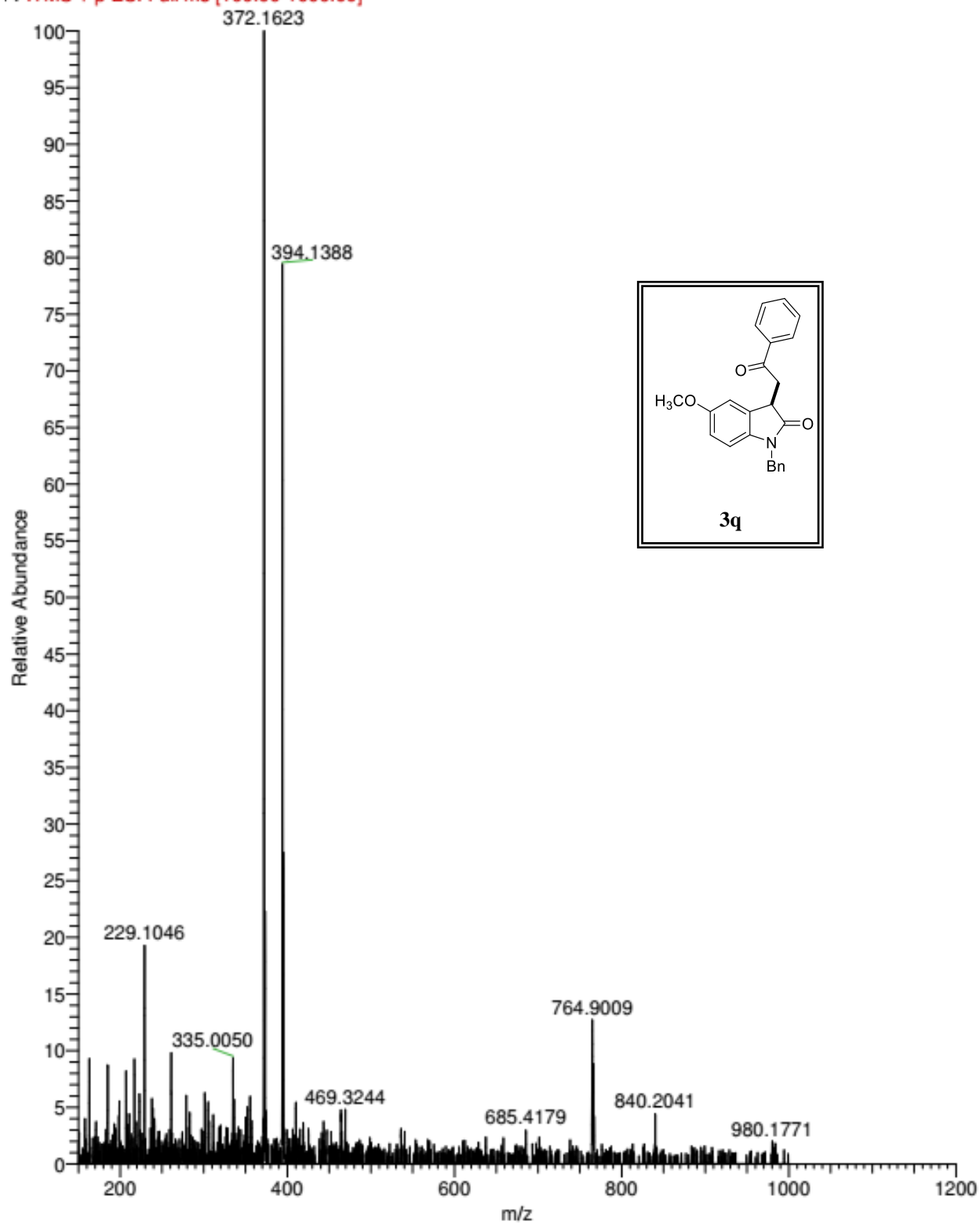
APR-566 #29 RT: 0.30 AV: 1 NL: 7.12E7
T: FTMS + p ESI Full ms [100.0000-1000.0000]



Compound 3q

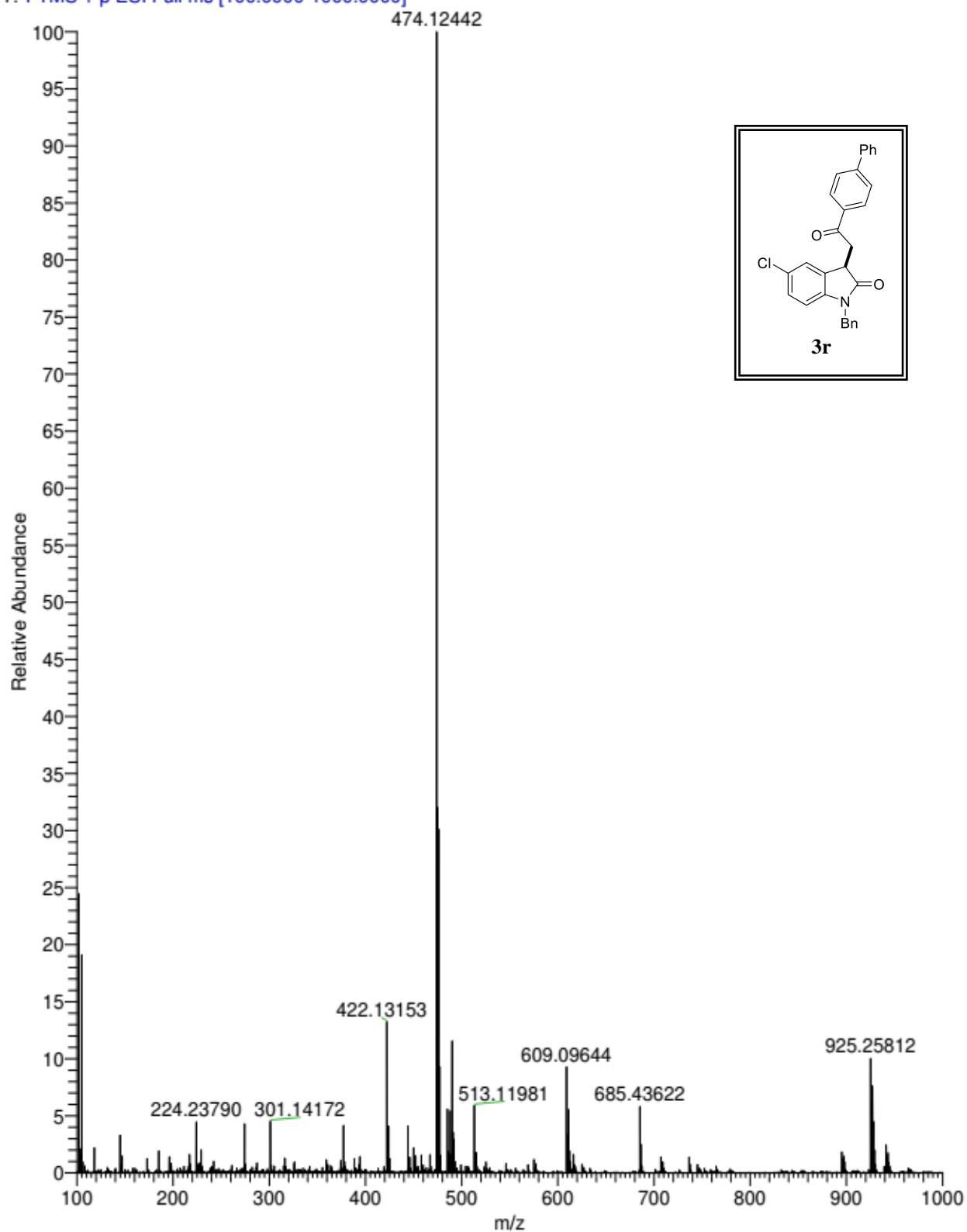
APR-378 #348 RT: 2.30 AV: 1 NL: 2.86E4

F: ITMS + p ESI Full ms [100.00-1000.00]



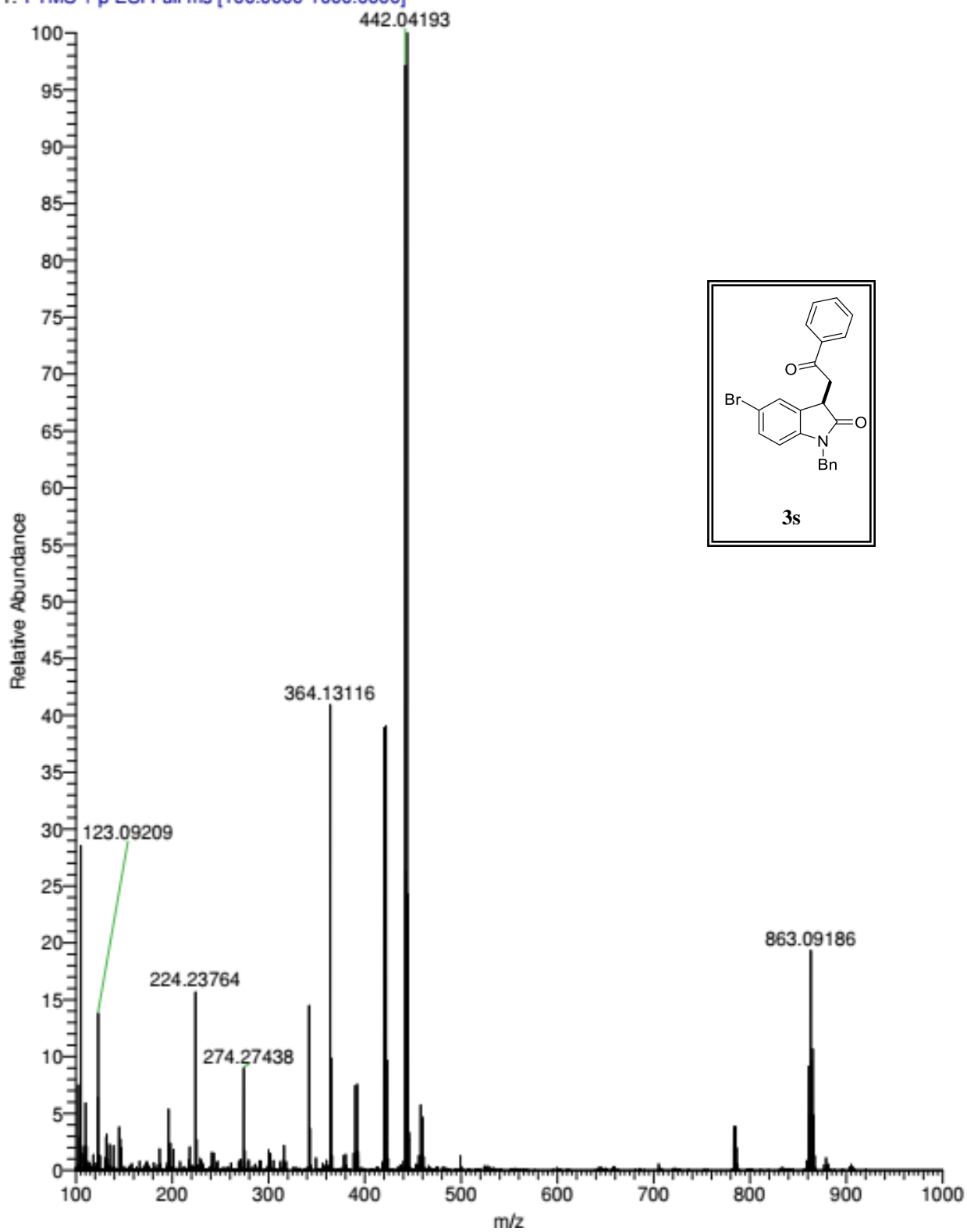
Compound 3r

APR-403 #37 RT: 0.37 AV: 1 NL: 9.21E7
T: FTMS + p ESI Full ms [100.0000-1000.0000]



Compound 3s

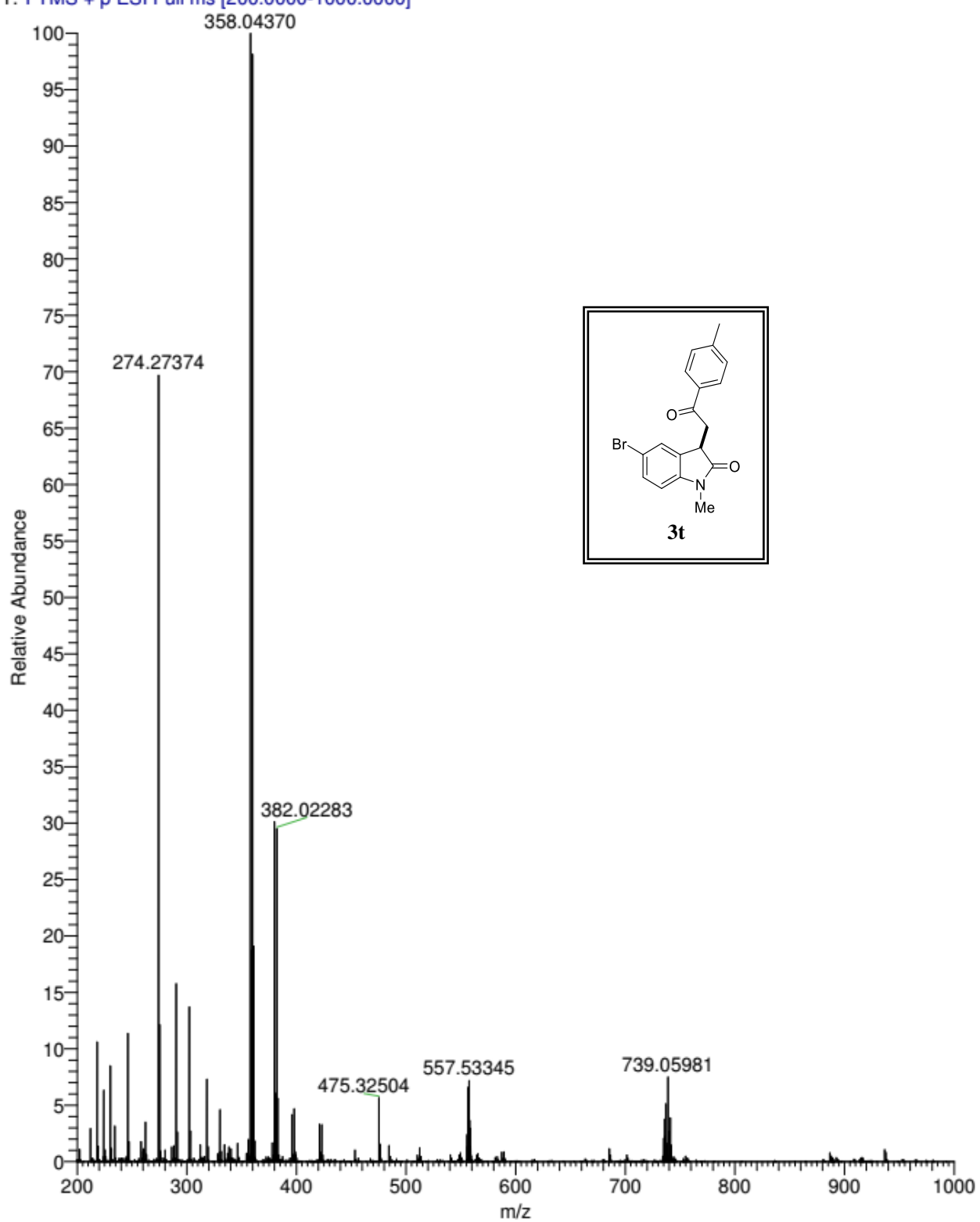
APR-552 #39 RT: 0.39 AV: 1 NL: 8.65E7
T: FTMS + p ESI Full ms [100.0000-1000.0000]



Compound 3t

APR-240_20180409171321 #38 RT: 0.39 AV: 1 NL: 4.24E8

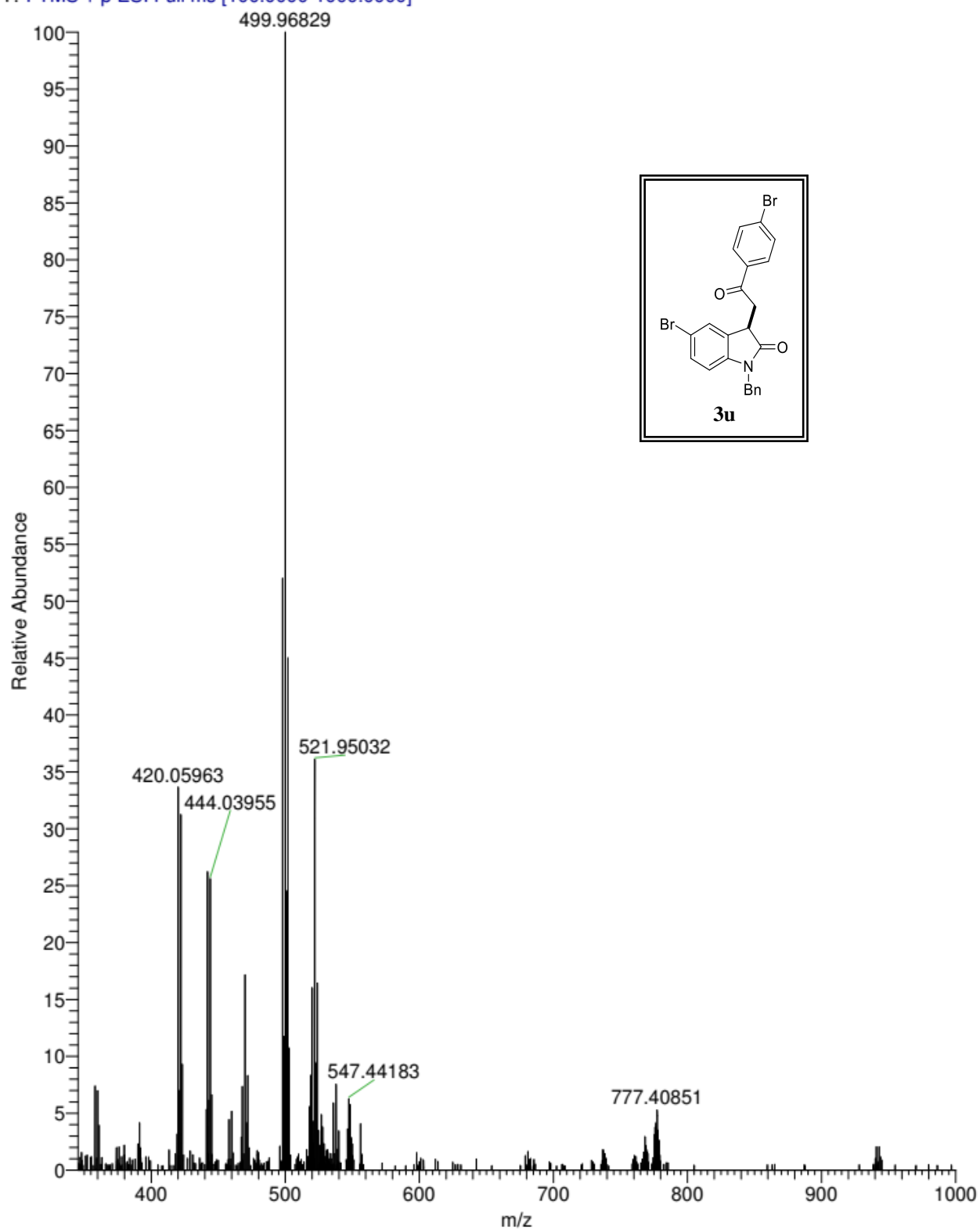
T: FTMS + p ESI Full ms [200.0000-1000.0000]



Compound **3u**

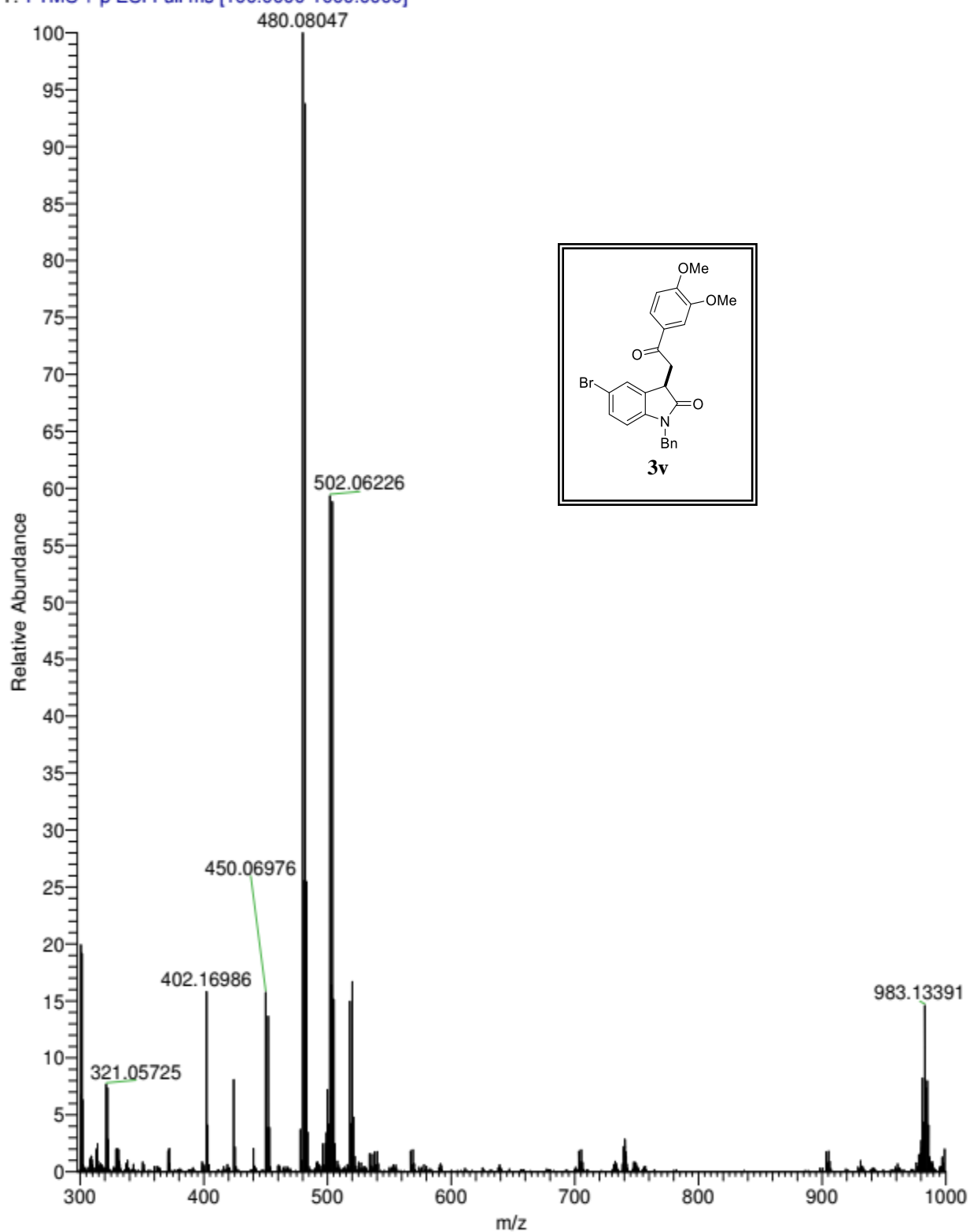
APR-553_20201017123640 #53 RT: 0.53 AV: 1 NL: 4.09E6

T: FTMS + p ESI Full ms [100.0000-1000.0000]



Compound 3v

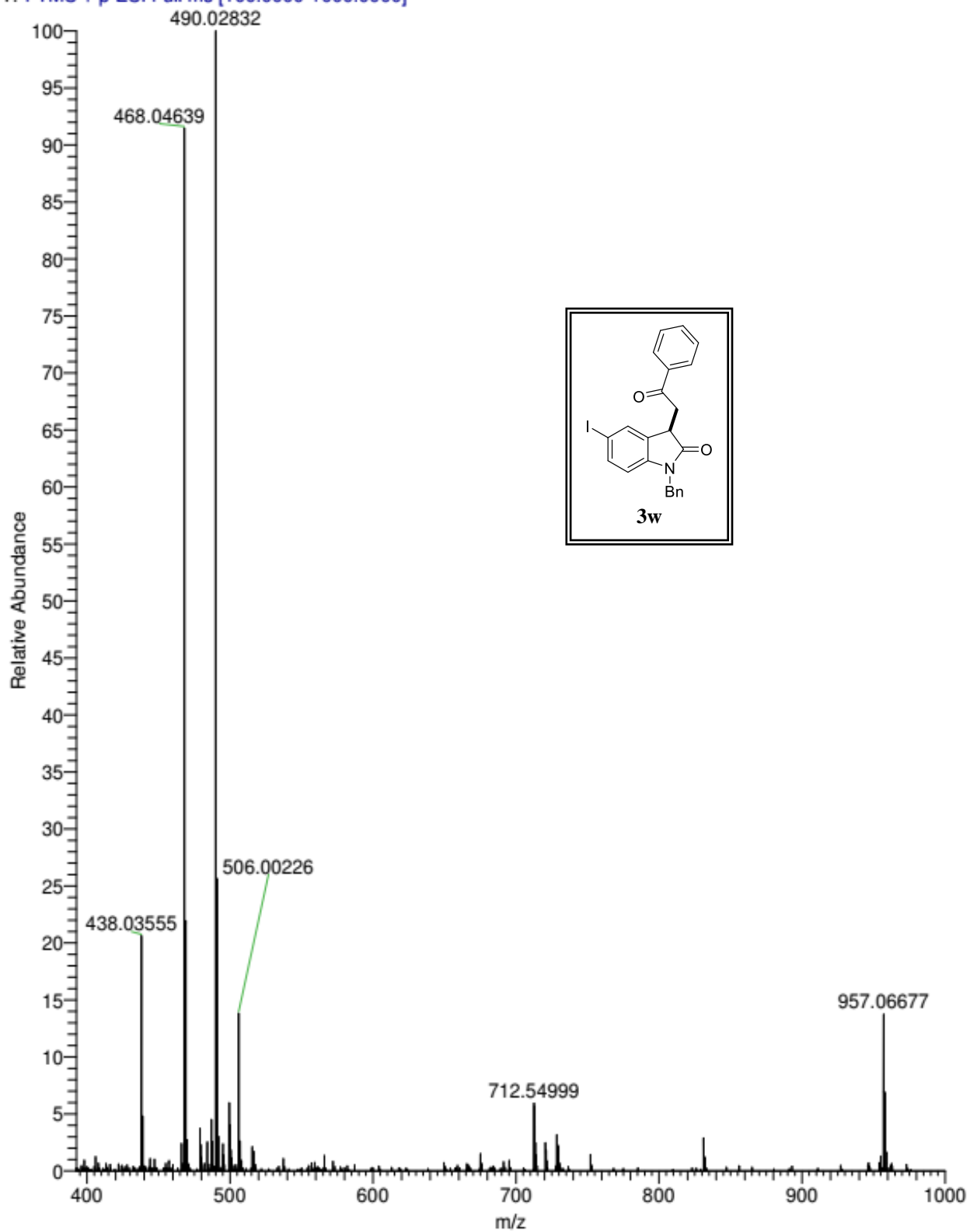
APR-559 #49 RT: 0.50 AV: 1 NL: 2.13E7
T: FTMS + p ESI Full ms [100.0000-1000.0000]



Compound 3w

APR-368_20201017115101 #49 RT: 0.49 AV: 1 NL: 2.31E7

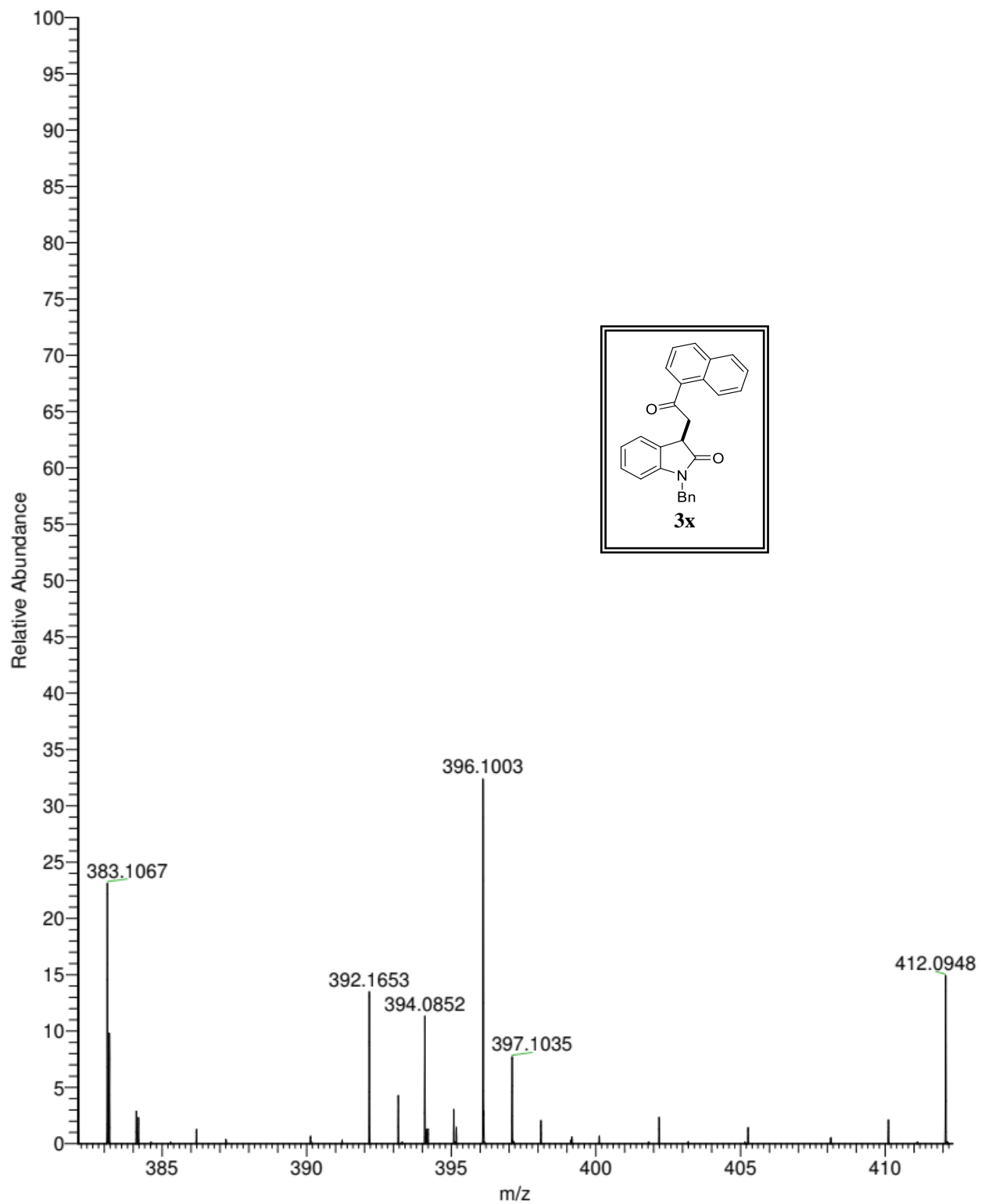
T: FTMS + p ESI Full ms [100.0000-1000.0000]



Compound 3x

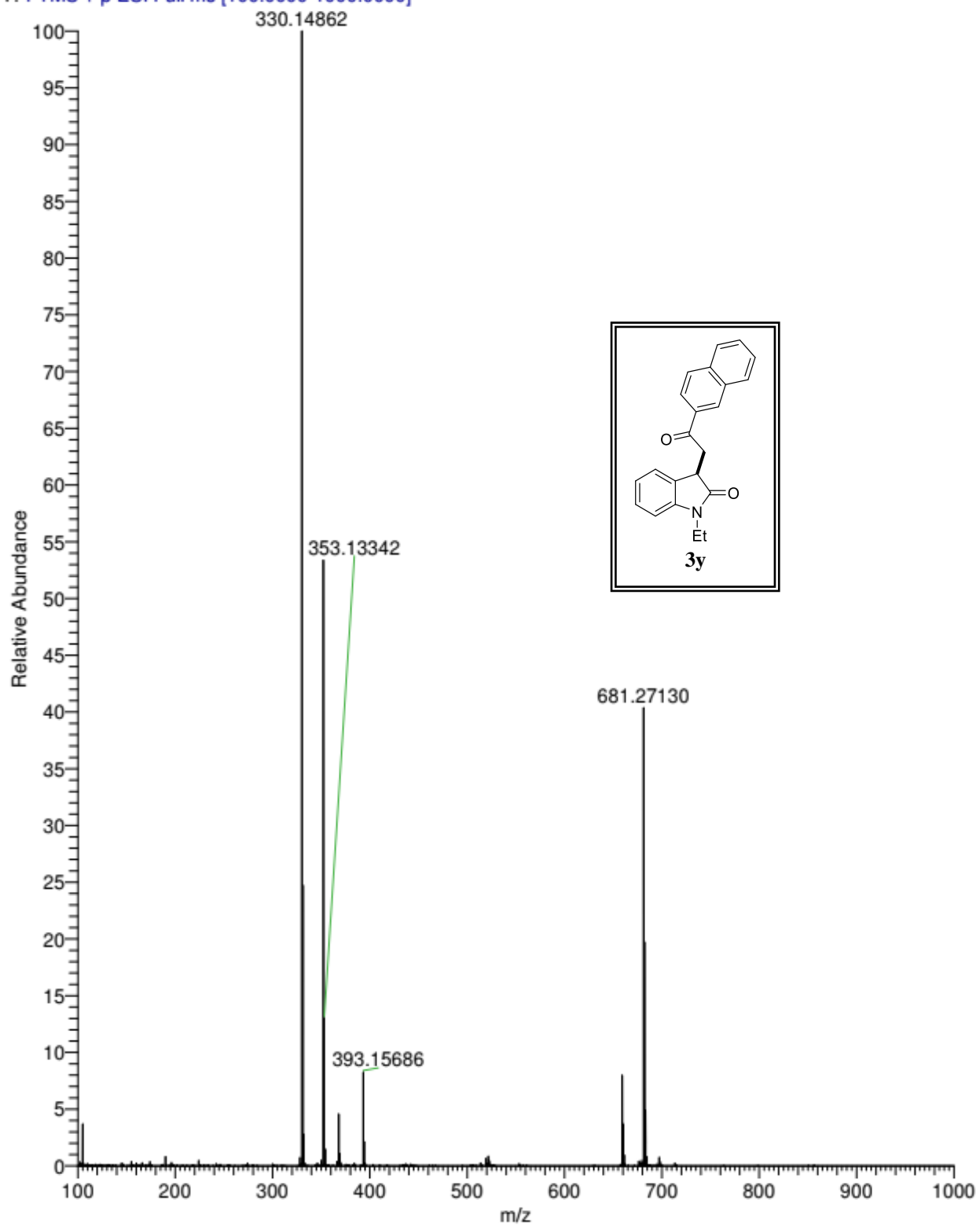
APR-564 #344-354 RT: 0.80-0.82 AV: 11 NL: 2.58E7

T: FTMS + p ESI Full ms [300.0000-450.0000]



Compound 3y

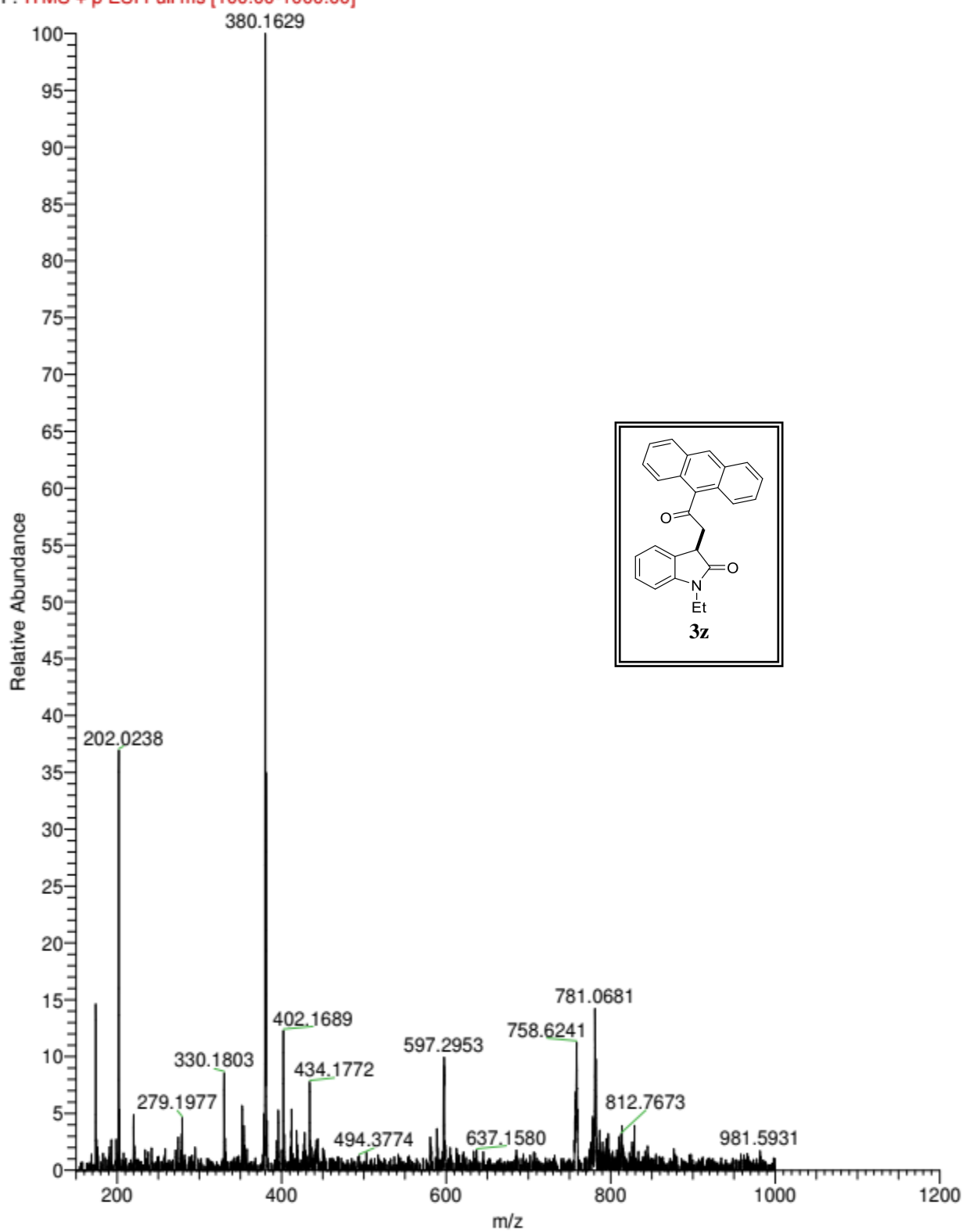
APR-337_20201016172201 #41 RT: 0.41 AV: 1 NL: 6.79E8
T: FTMS + p ESI Full ms [100.0000-1000.0000]



Compound 3z

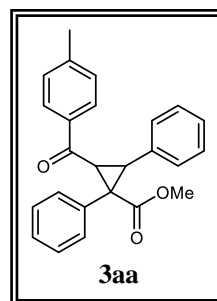
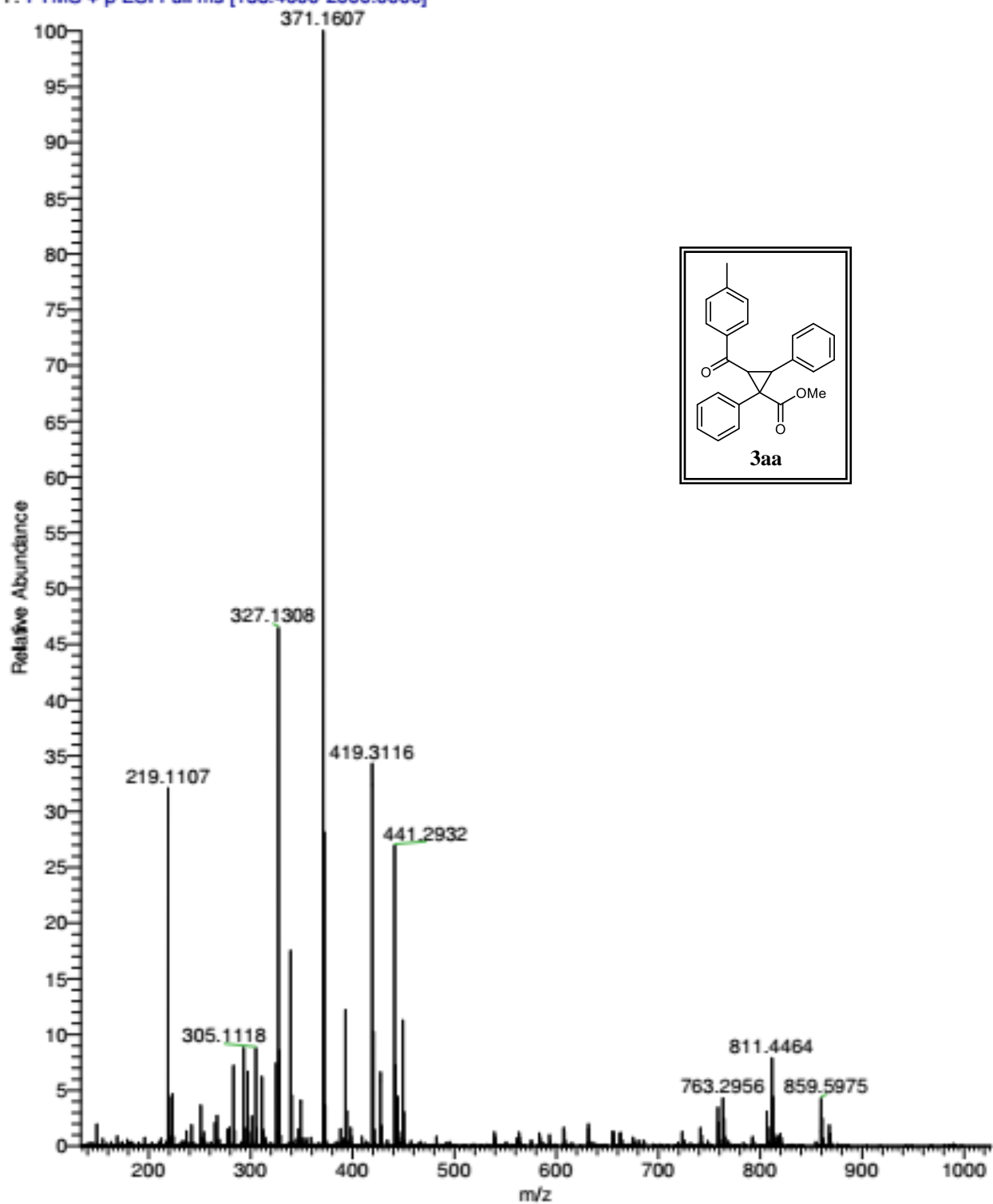
APR-339 #160 RT: 1.14 AV: 1 NL: 1.10E5

F: ITMS + p ESI Full ms [100.00-1000.00]



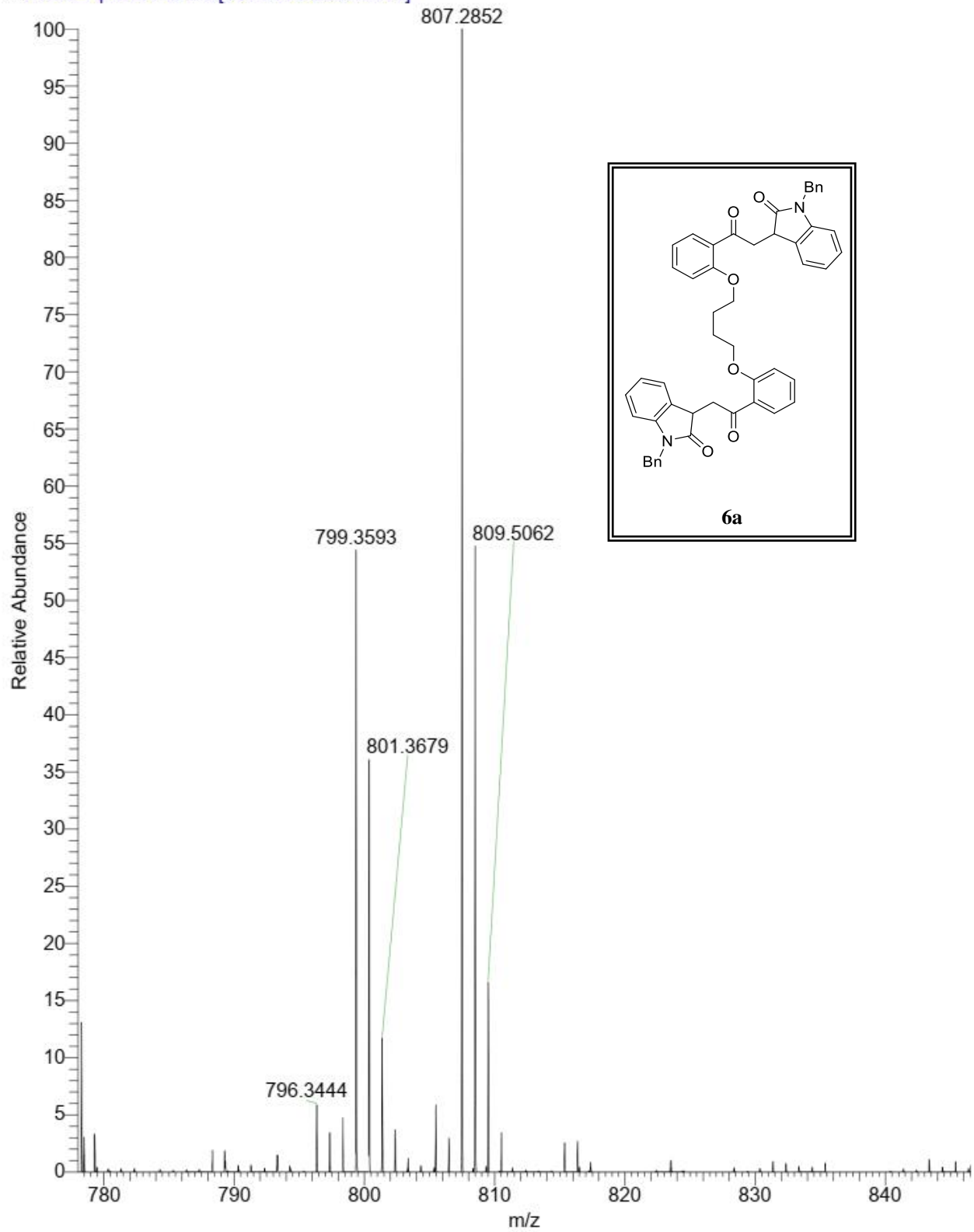
Compound 3aa

APR-747-A #40 RT: 0.38 AV: 1 NL: 6.94E8
T: FTMS + p ESI Full ms [133.4000-2000.0000]



Compound **6a**

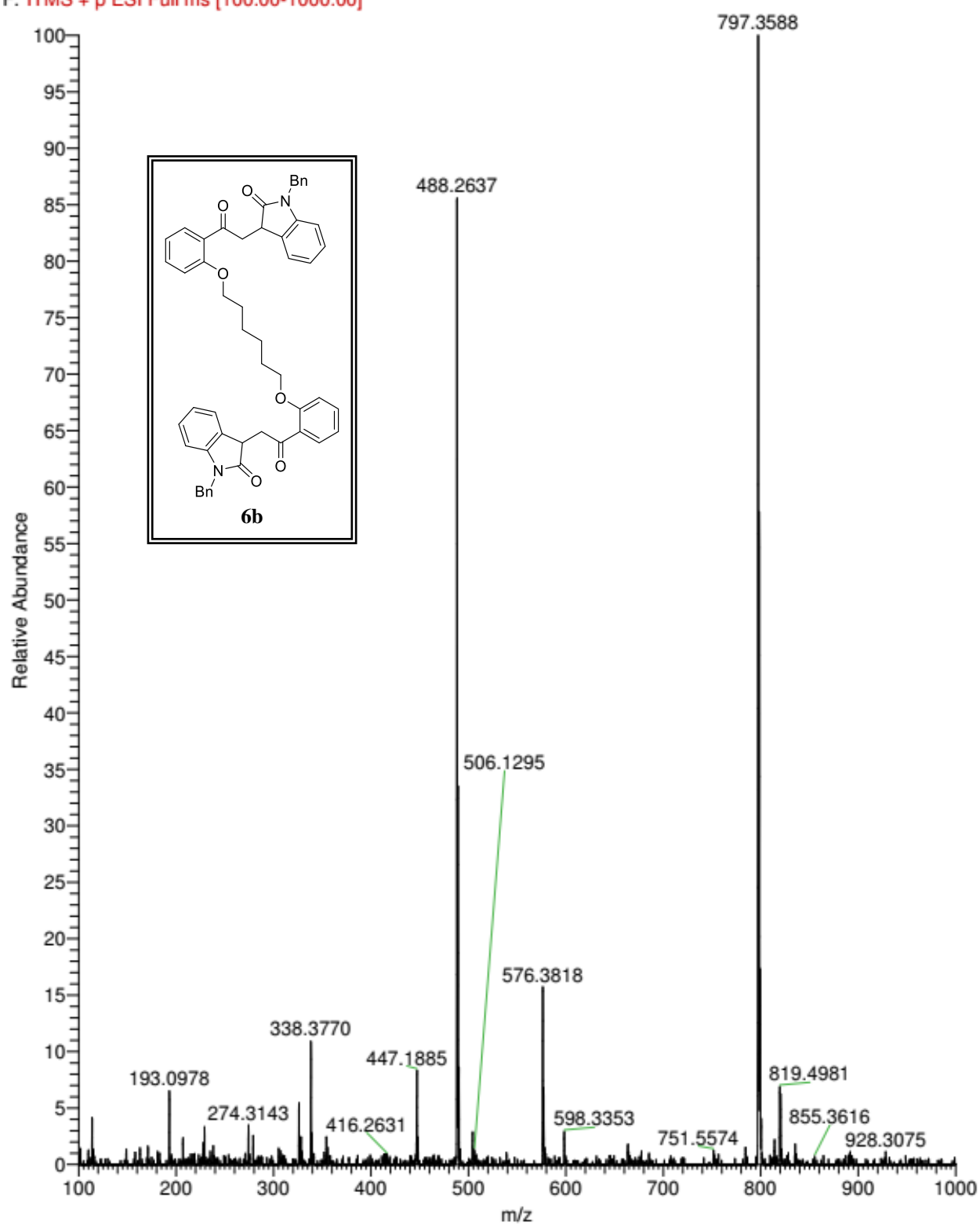
APR-489_20210226162604 #1059-1069 RT: 2.46-2.49 AV: 11 NL: 2.86E7
T: FTMS + p ESI Full ms[150.0000-2000.0000]



Compound **6b**

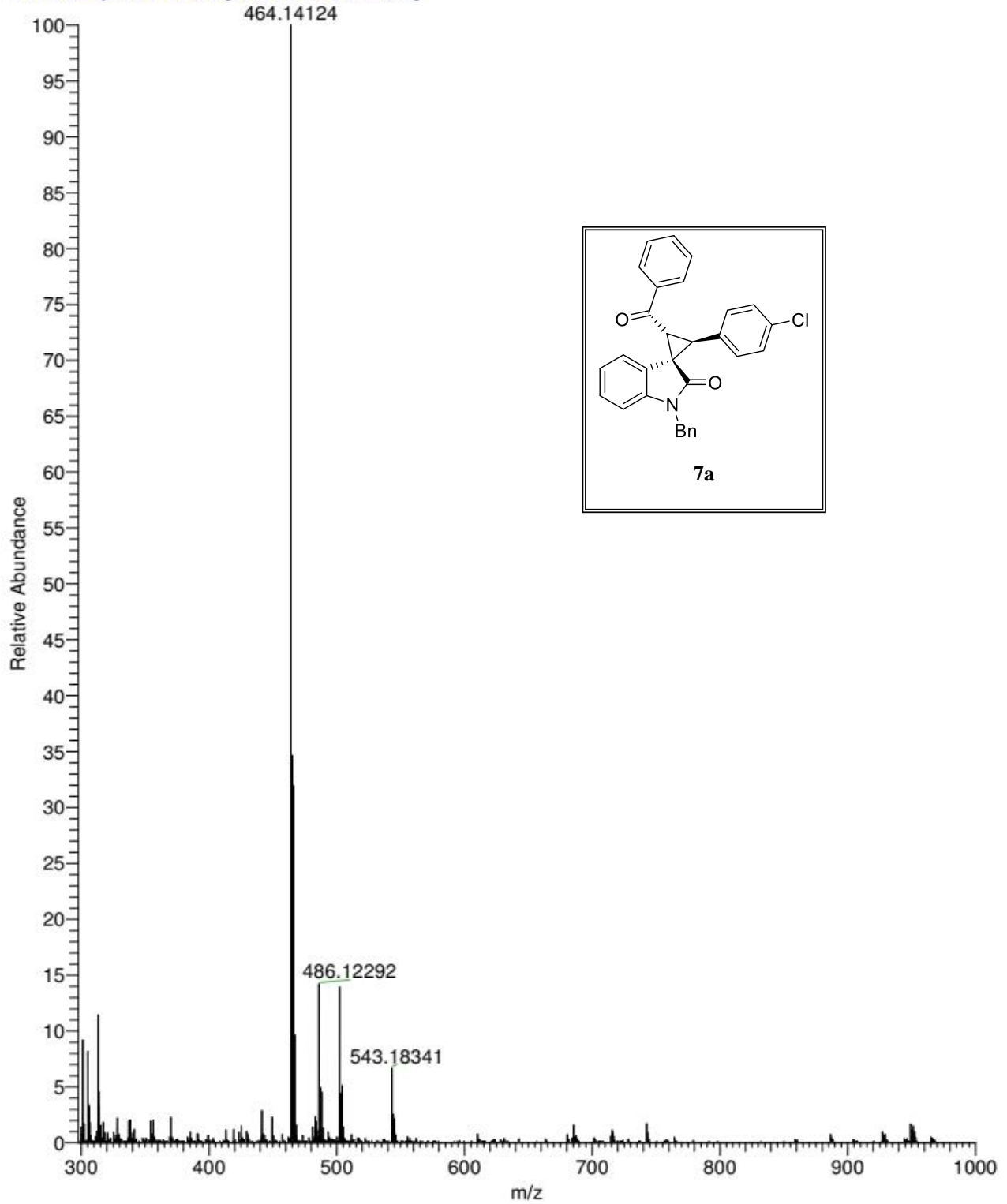
APR-349_181102141251 #198 RT: 1.34 AV: 1 NL: 1.45E5

F: ITMS + p ESI Full ms [100.00-1000.00]



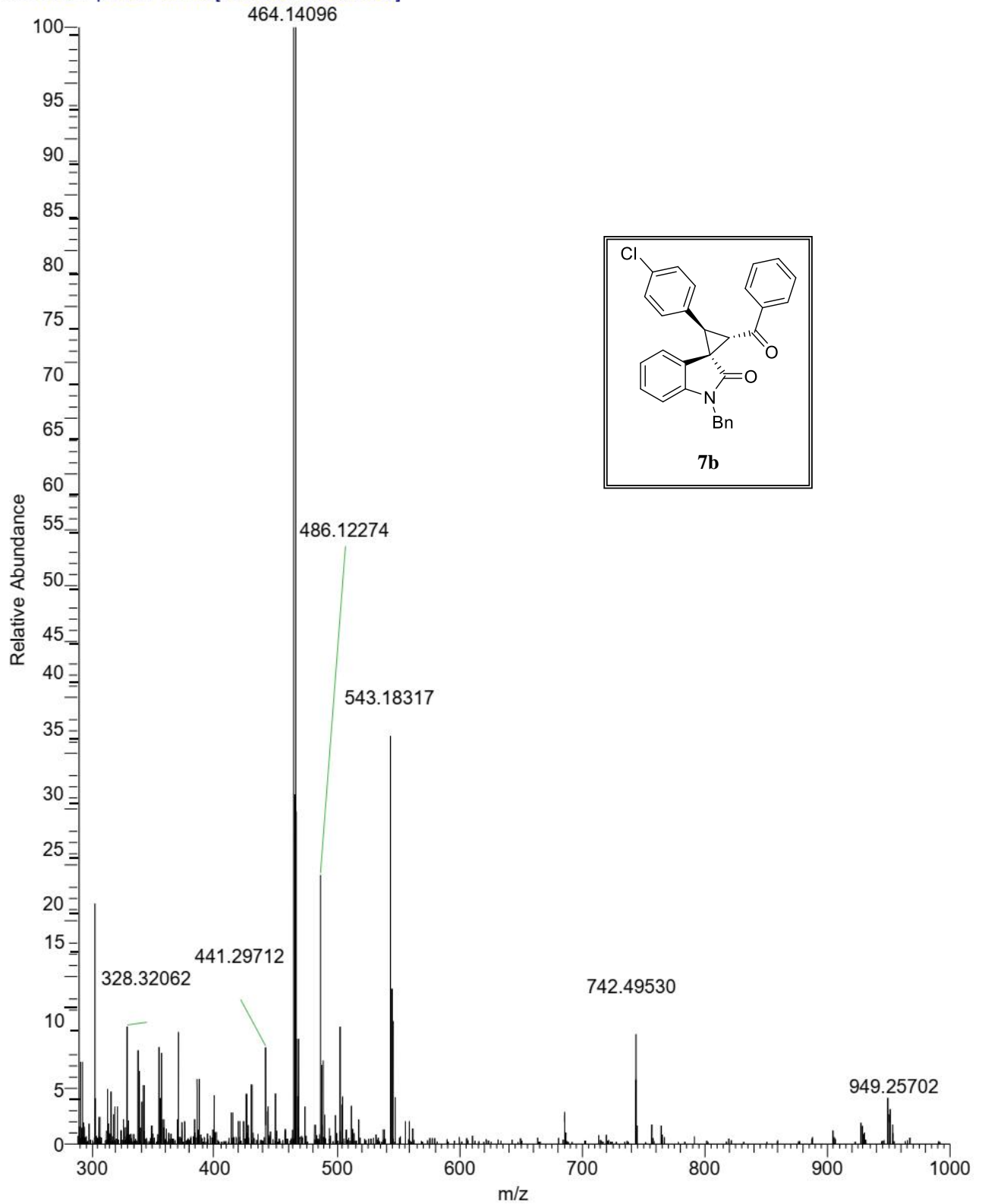
Compound 7a

APR-488 #45 RT: 0.46 AV: 1 NL: 1.94E7
T: FTMS + p ESI Full ms [100.0000-1000.0000]



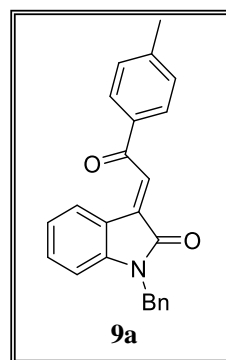
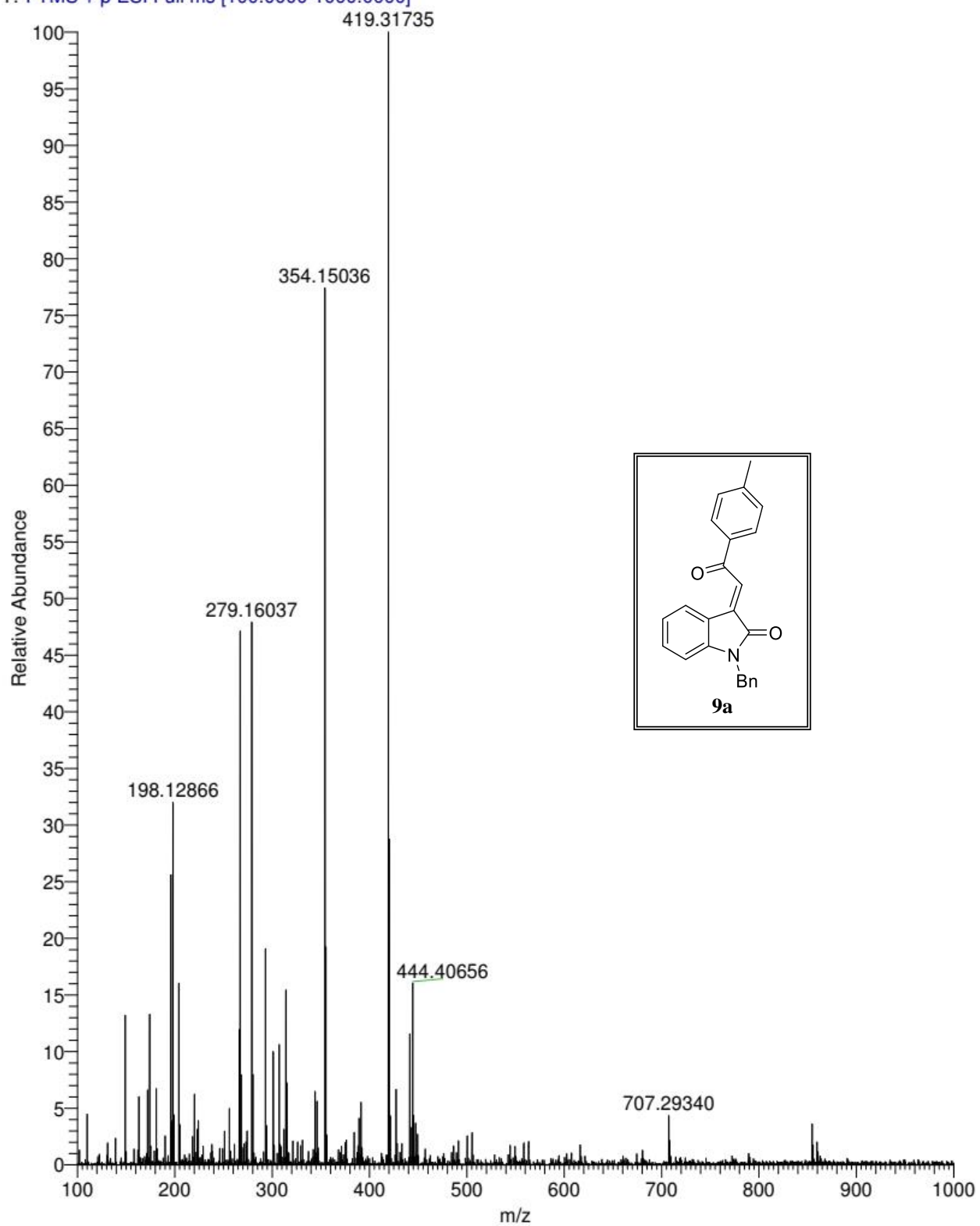
Compound 7b

APR-658 #37 RT: 0.38 AV: 1 NL: 2.88E7
T: FTMS + p ESI Full ms [100.0000-1000.0000]



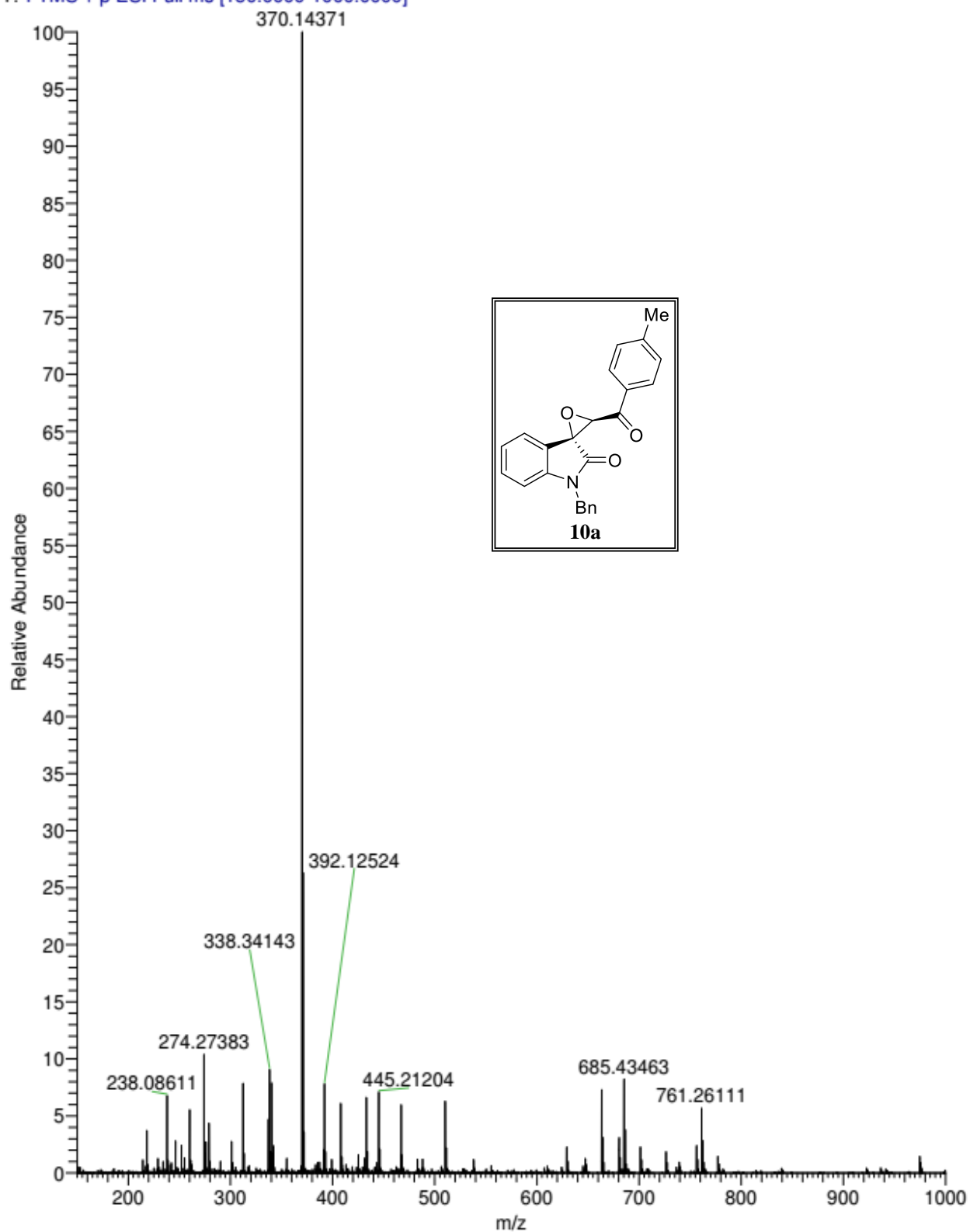
Compound 9a

APR-679 #41 RT: 0.40 AV: 1 NL: 6.83E7
T: FTMS + p ESI Full ms [100.0000-1000.0000]



Compound 10a

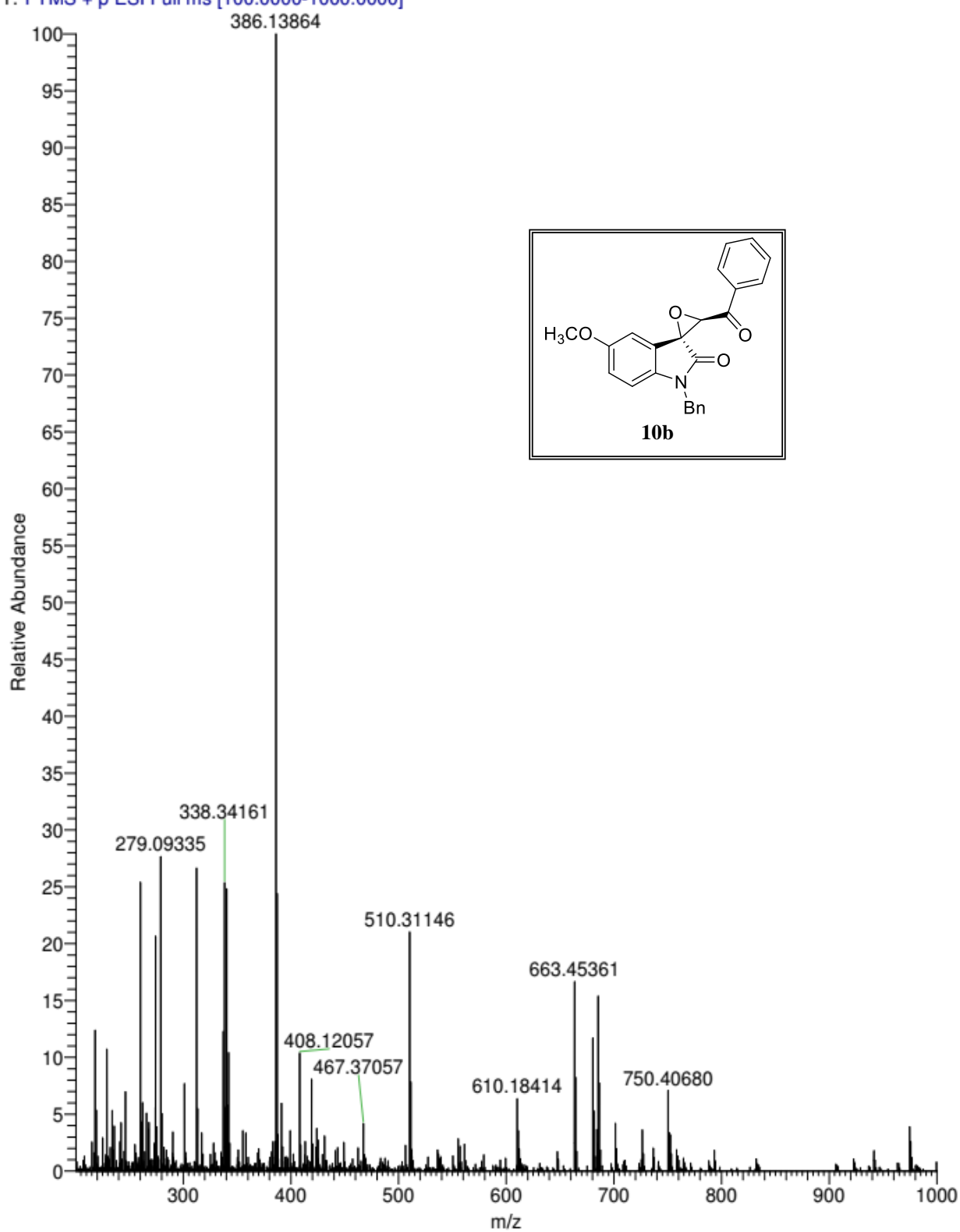
APR-512 #37 RT: 0.39 AV: 1 NL: 2.30E8
T: FTMS + p ESI Full ms [150.0000-1000.0000]



Compound 10b

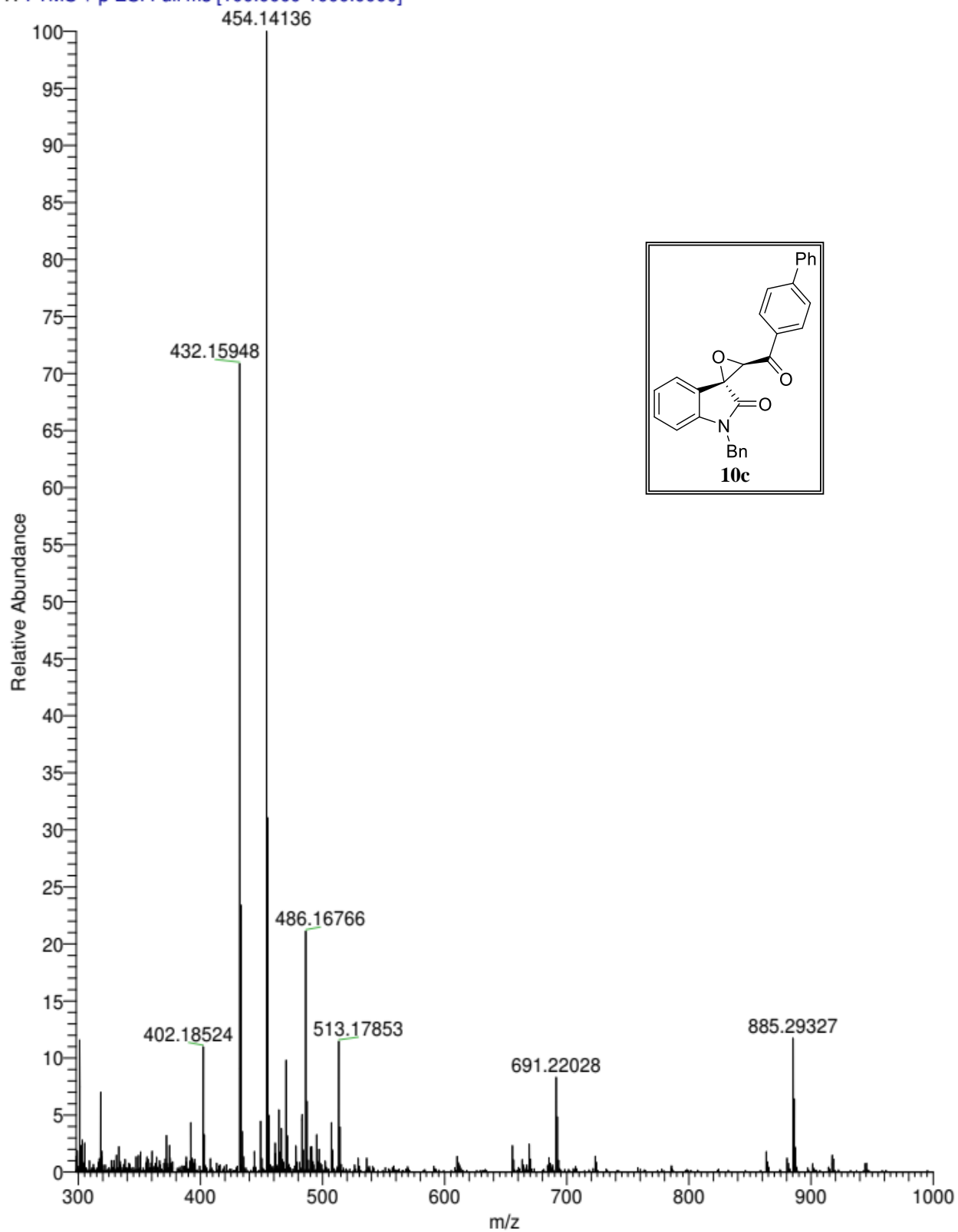
APR-533_20191014172041 #45 RT: 0.44 AV: 1 NL: 2.97E7

T: FTMS + p ESI Full ms [100.0000-1000.0000]



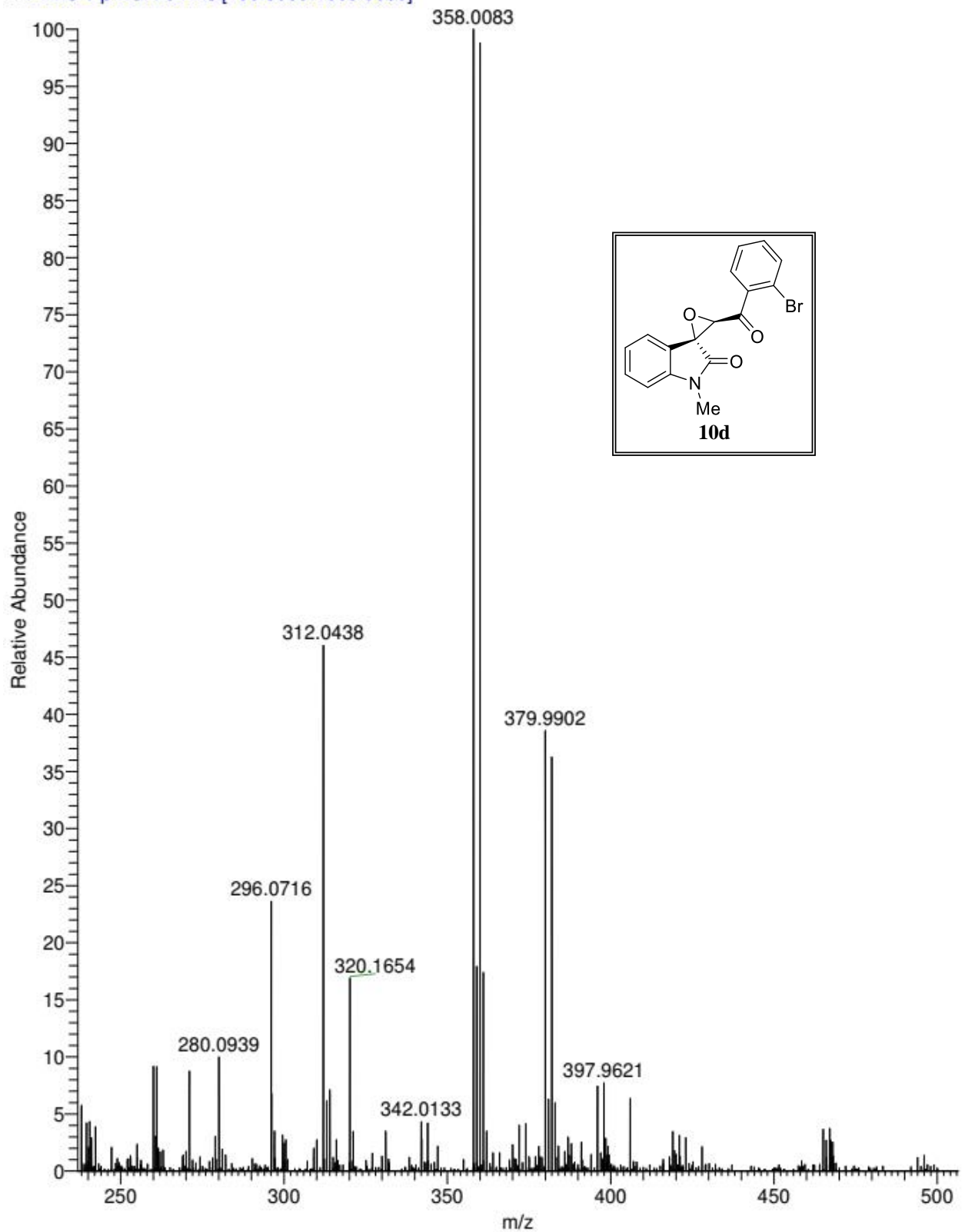
Compound 10c

APR-538 #37 RT: 0.38 AV: 1 NL: 1.40E7
T: FTMS + p ESI Full ms [100.0000-1000.0000]



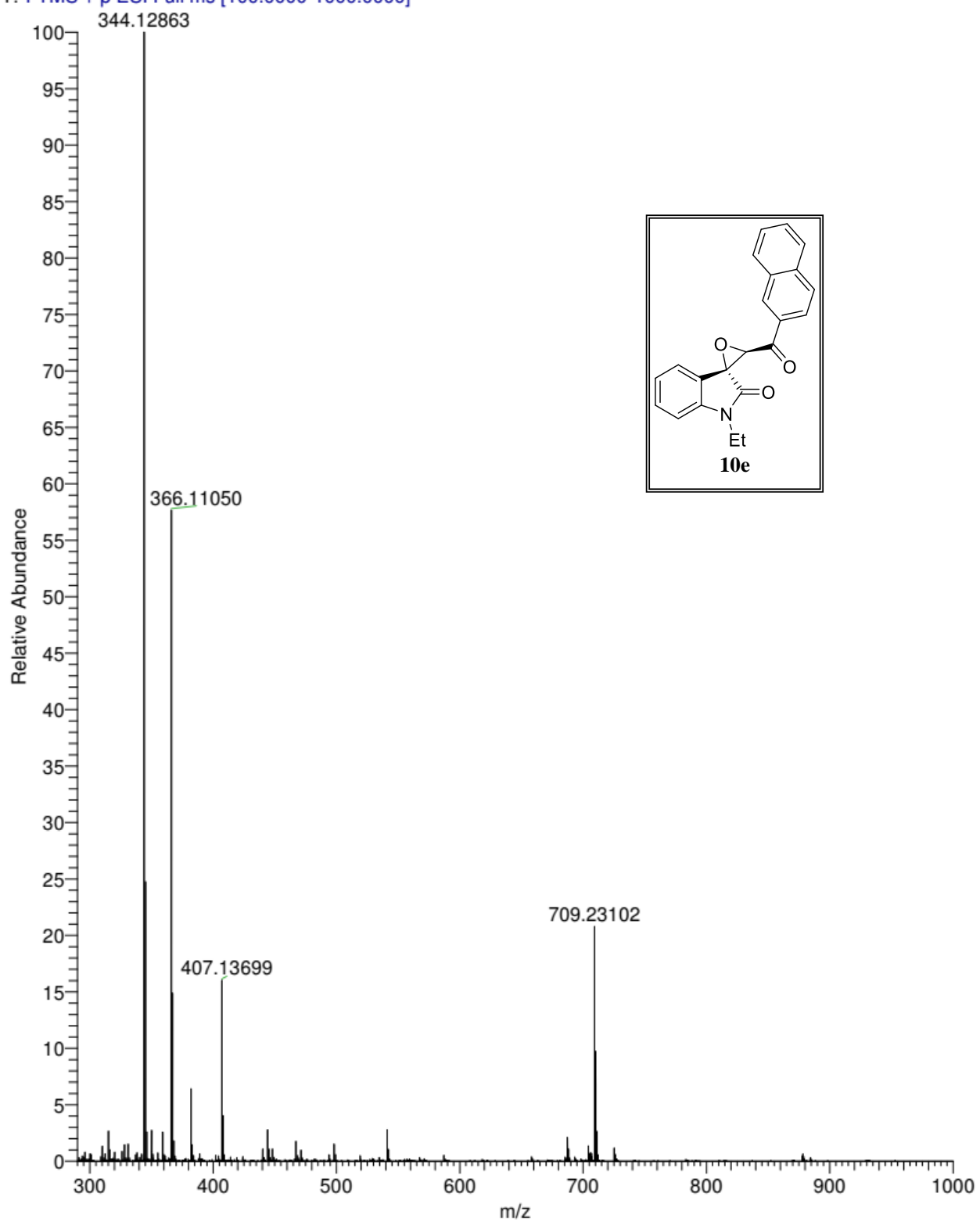
Compound **10d**

APR-569 #61 RT: 0.61 AV: 1 NL: 2.70E7
T: FTMS + p ESI Full ms [100.0000-1000.0000]



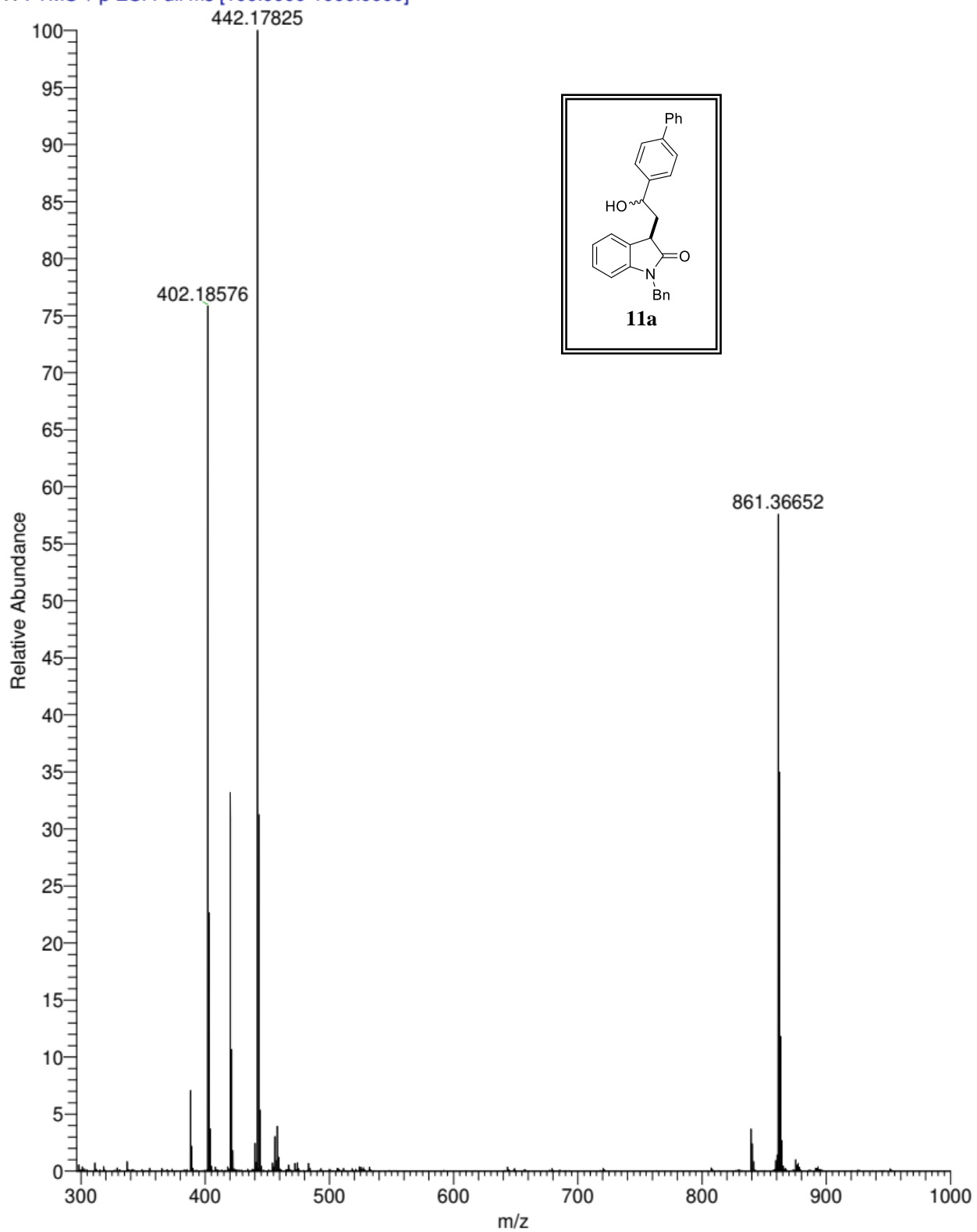
Compound 10e

APR-543 #41 RT: 0.41 AV: 1 NL: 1.25E8
T: FTMS + p ESI Full ms [100.0000-1000.0000]



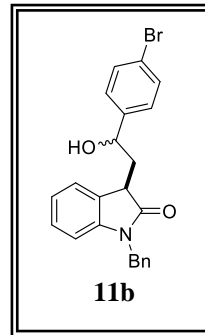
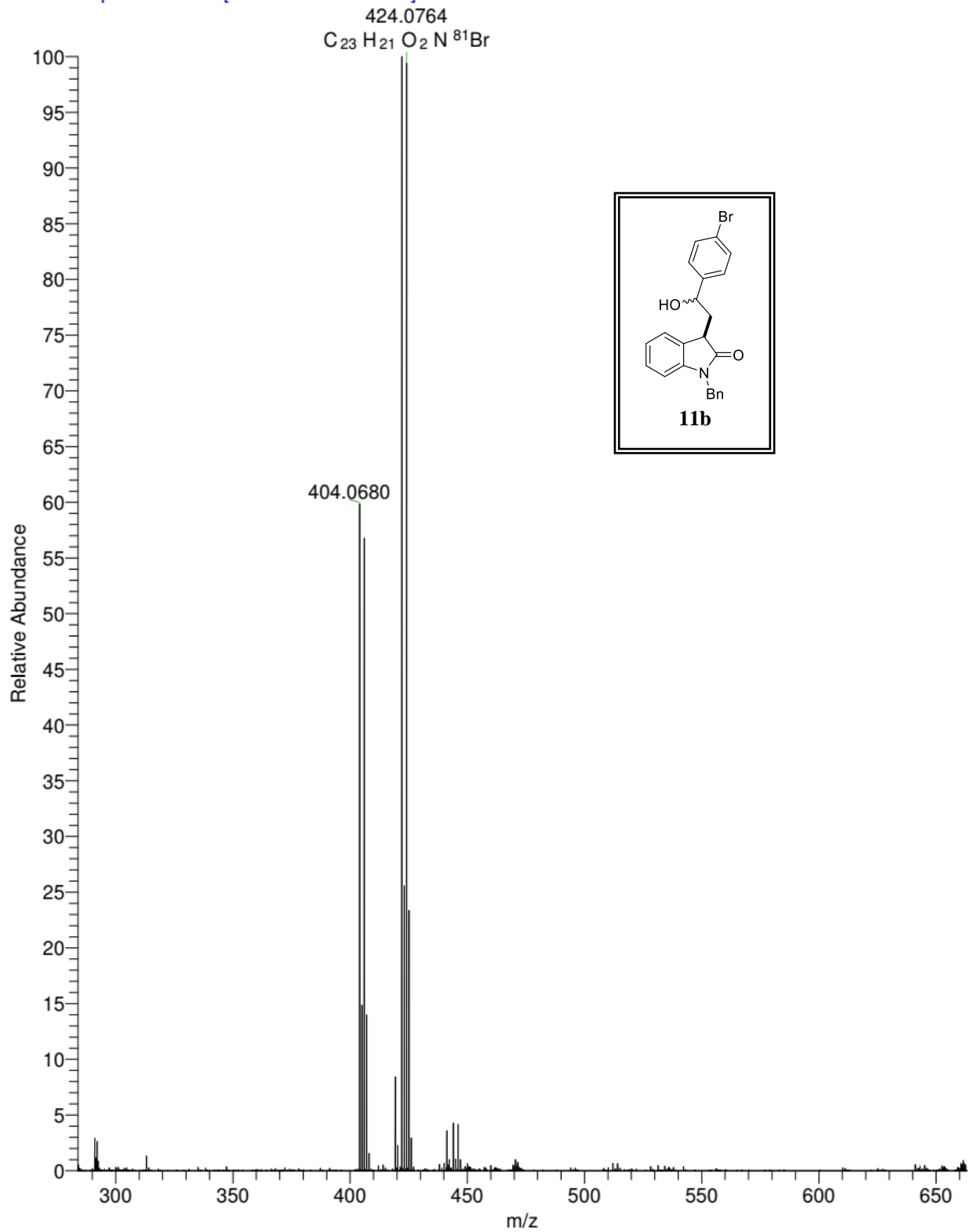
Compound 11a

APR-373 #39 RT: 0.39 AV: 1 NL: 1.11E8
T: FTMS + p ESI Full ms [100.0000-1000.0000]



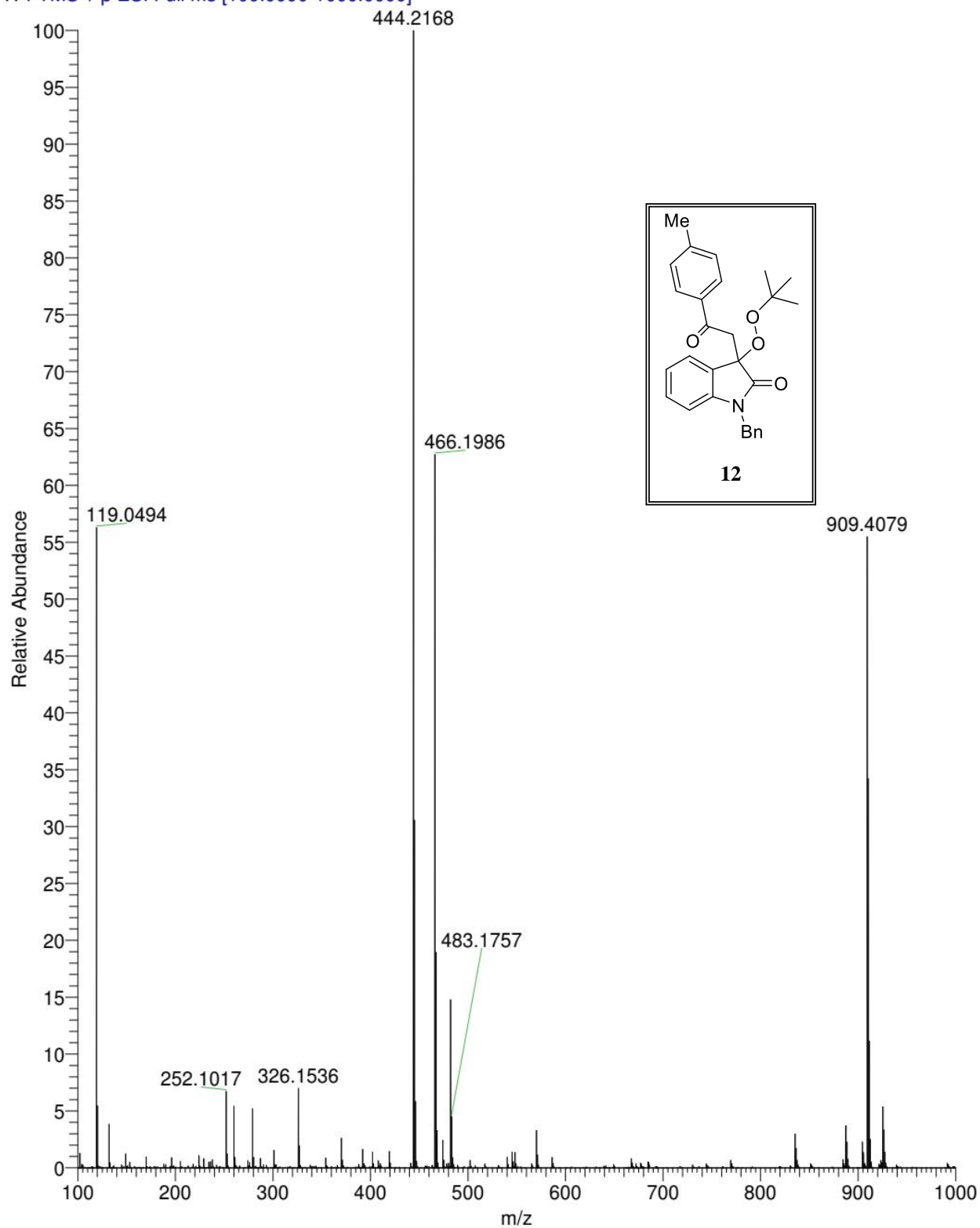
Compound 11b

APR-695 #54 RT: 0.52 AV: 1 NL: 3.53E8
T: FTMS + p ESI Full ms [133.4000-2000.0000]



Compound 12

APR-540 #39 RT: 0.40 AV: 1 NL: 5.59E8
T: FTMS + p ESI Full ms [100.0000-1000.0000]



Compound 13

APR-602 #53 RT: 0.53 AV: 1 NL: 2.44E8
T: FTMS + p ESI Full ms [100.0000-1000.0000]

