

Data Path : Z:\HPCHEM1\BNA_E\Data\BE021815\
 Data File : BE089630.D
 Acq On : 18 Feb 2015 23:26
 Operator : TP/IZ
 Sample : MDL-02-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-S

Quant Time: Feb 19 05:10:03 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE021815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 18 13:01:39 2015
 Response via : Initial Calibration

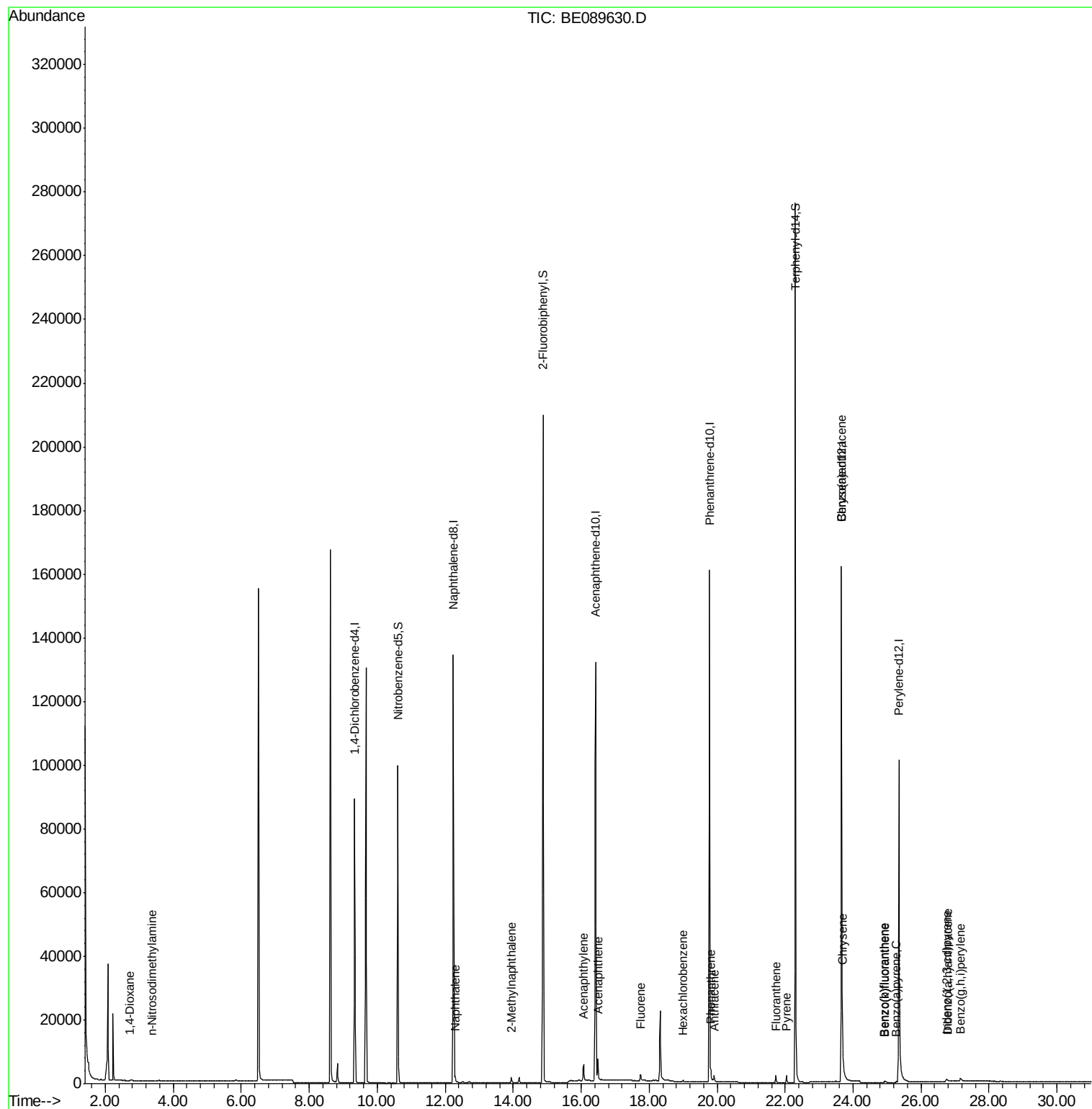
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	41382	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	165175	5.00	ng	0.00
8) Acenaphthene-d10	16.43	164	82182	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	160573	5.00	ng	0.00
19) Chrysene-d12	23.66	240	144678	5.00	ng	0.00
25) Perylene-d12	25.34	264	116374	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	69718	9.71	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	193779	8.80	ng	0.00
21) Terphenyl-d14	22.30	244	234529	11.27	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.73	88	315	0.06	ng	# 85
3) n-Nitrosodimethylamine	3.36	42	3	0.00	ng	# 1
6) Naphthalene	12.29	128	2438	0.07	ng	# 94
7) 2-Methylnaphthalene	13.95	142	1318	0.06	ng	97
10) Acenaphthylene	16.07	152	7308	0.05	ng	100
11) Acenaphthene	16.49	154	1349	0.06	ng	89
12) Fluorene	17.74	166	1511	0.06	ng	97
14) Hexachlorobenzene	19.00	284	487	0.07	ng	93
15) Pentachlorophenol	19.45	266	27	Below Cal		# 66
16) Phenanthrene	19.82	178	2650	0.07	ng	99
17) Anthracene	19.91	178	1878	0.06	ng	96
18) Fluoranthene	21.72	202	1891	0.05	ng	99
20) Pyrene	22.04	202	1994	0.06	ng	99
22) Benzo(a)anthracene	23.65	228	7091	0.06	ng	94
23) Chrysene	23.69	228	11361	0.08	ng	95
24) Indeno(1,2,3-cd)pyrene	26.75	276	1977	0.19	ng	93
26) Benzo(b)fluoranthene	24.91	252	459	0.29	ng	# 77
27) Benzo(k)fluoranthene	24.94	252	856	0.03	ng	# 80
28) Benzo(a)pyrene	25.27	252	511	0.26	ng	# 73
29) Dibenzo(a,h)anthracene	26.78	278	357	0.24	ng	# 54
30) Benzo(g,h,i)perylene	27.16	276	2534	0.16	ng	# 66

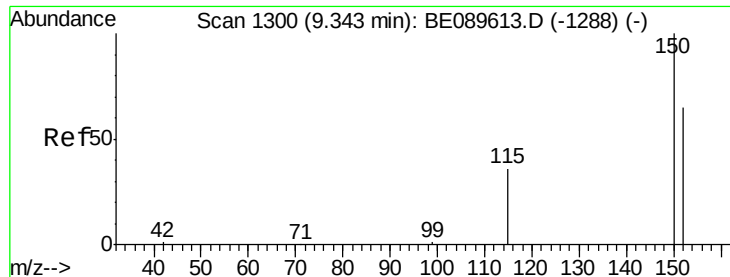
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1300

Delta R.T. 0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

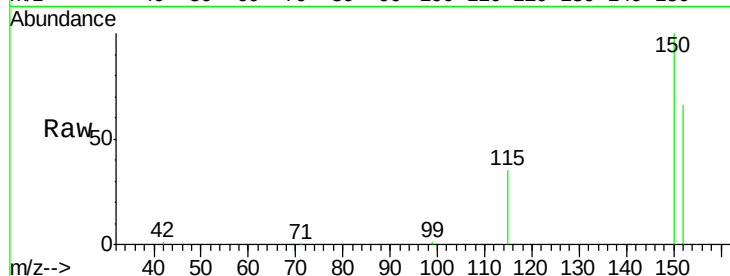
Tgt Ion: 152 Resp: 41382

Ion Ratio Lower Upper

152 100

150 150.8 122.4 183.6

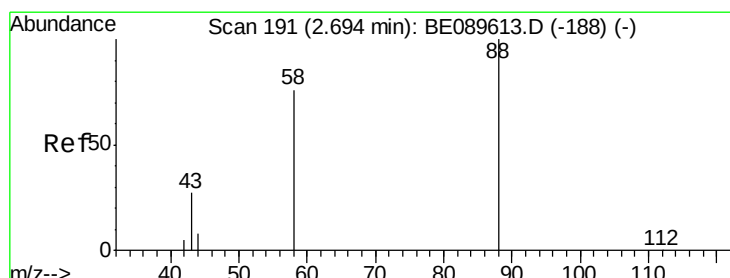
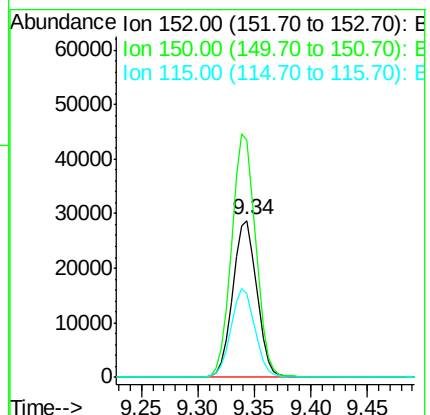
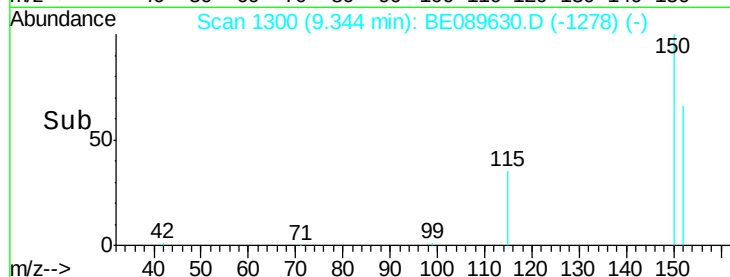
115 53.0 44.2 66.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.06 ng

RT: 2.73 min Scan# 197

Delta R.T. 0.04 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

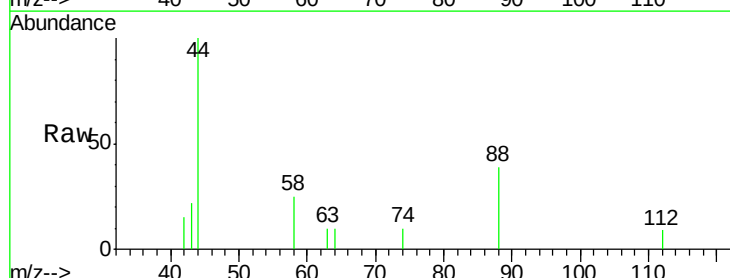
Tgt Ion: 88 Resp: 315

Ion Ratio Lower Upper

88 100

58 69.5 54.6 81.8

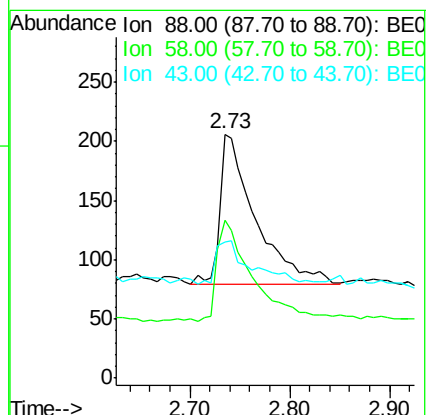
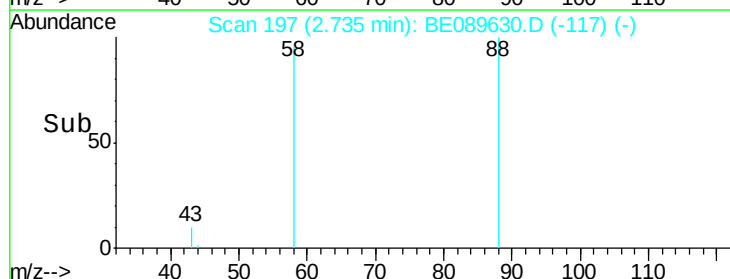
43 0.0 20.6 30.8#

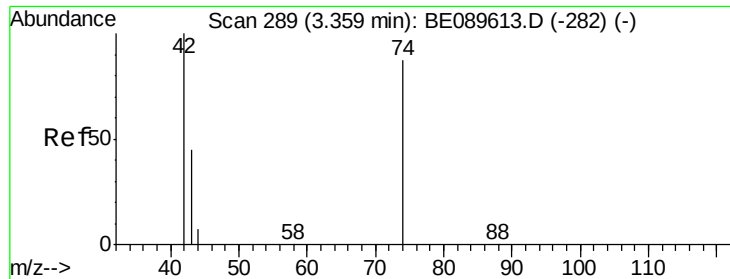


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



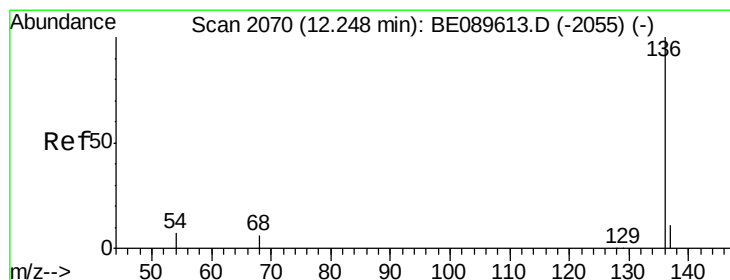
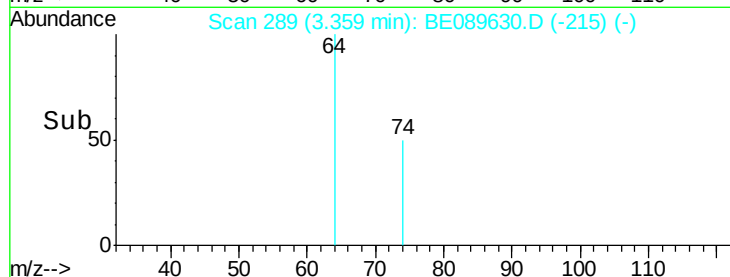
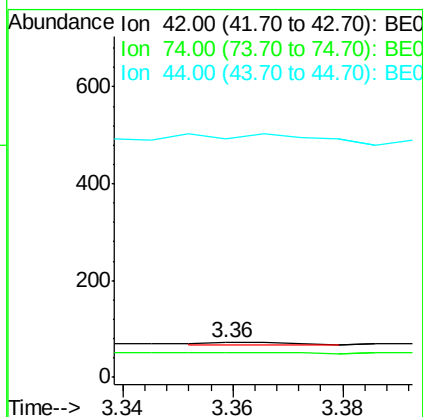
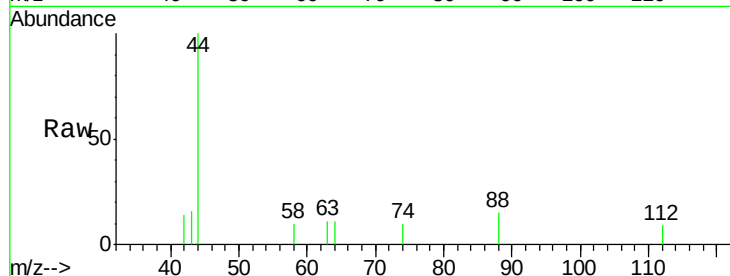


#3

n-Nitrosodimethylamine
 Concen: 0.00 ng
 RT: 3.36 min Scan# 289
 Delta R.T. -0.00 min
 Lab File: BE089630.D
 Acq: 18 Feb 2015 23:26

Instrument :
 BNA_E
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 MDL-02-S

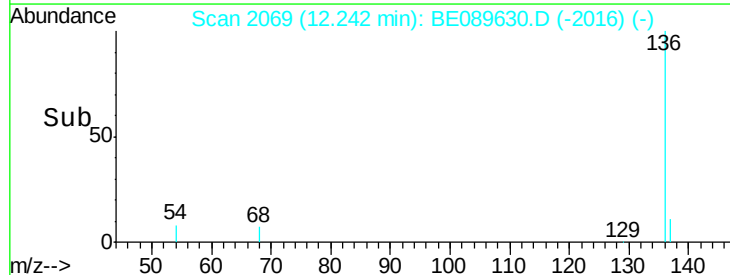
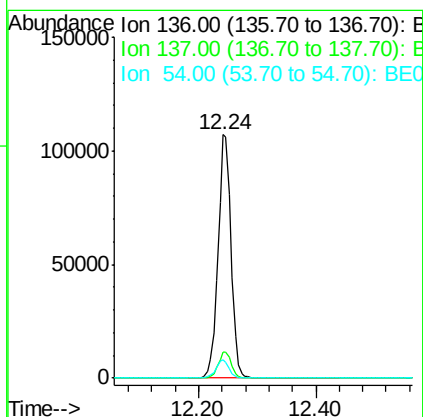
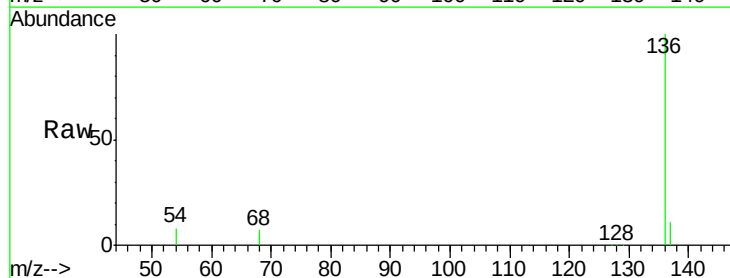
Tgt Ion: 42 Resp: 3
 Ion Ratio Lower Upper
 42 100
 74 0.0 121.4 182.0#
 44 1233.3 4.5 6.7#

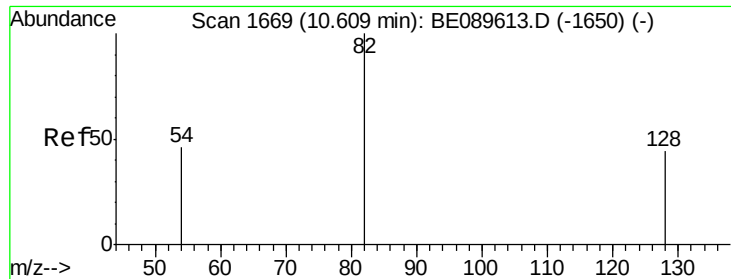


#4

Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2069
 Delta R.T. -0.01 min
 Lab File: BE089630.D
 Acq: 18 Feb 2015 23:26

Tgt Ion: 136 Resp: 165175
 Ion Ratio Lower Upper
 136 100
 137 10.9 8.9 13.3
 54 7.7 5.3 7.9





#5

Nitrobenzene-d5

Concen: 9.71 ng

RT: 10.61 min Scan# 1668

Delta R.T. -0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

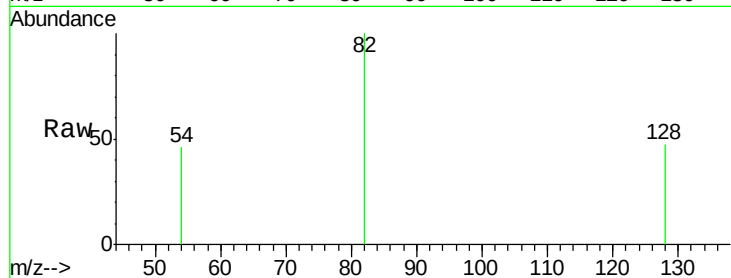
Tgt Ion: 82 Resp: 69718

Ion Ratio Lower Upper

82 100

128 47.1 35.5 53.3

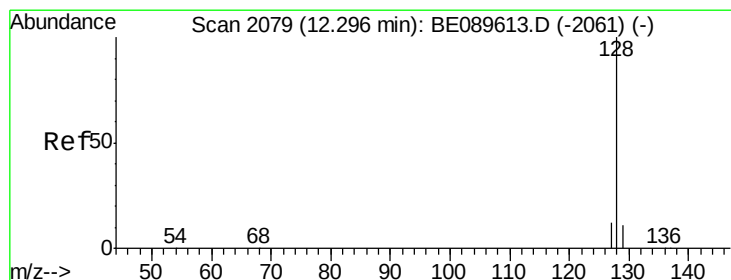
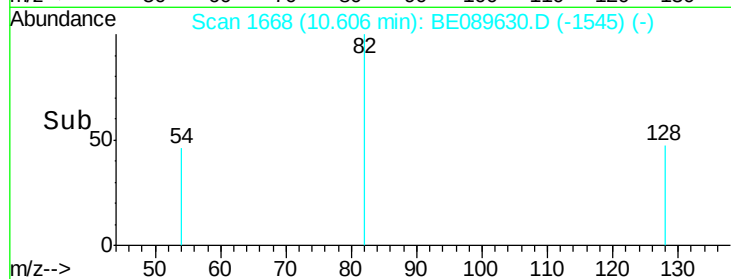
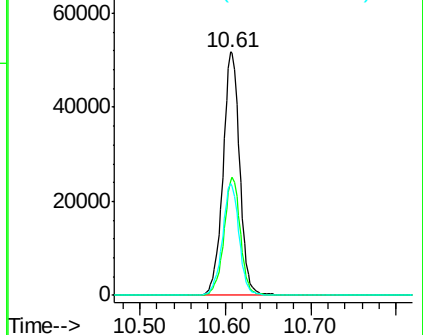
54 45.9 37.5 56.3



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#6

Naphthalene

Concen: 0.07 ng

RT: 12.29 min Scan# 2079

Delta R.T. -0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

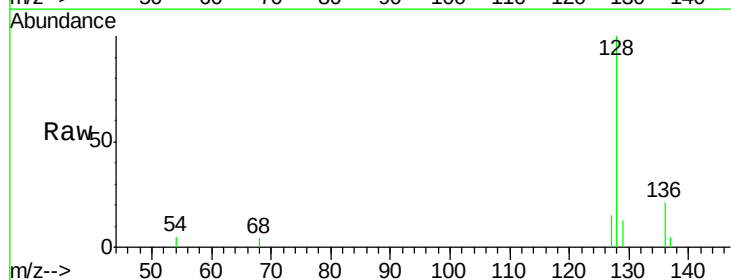
Tgt Ion: 128 Resp: 2438

Ion Ratio Lower Upper

128 100

129 13.5 8.9 13.3#

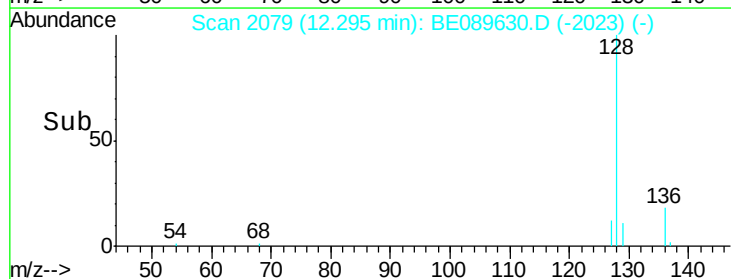
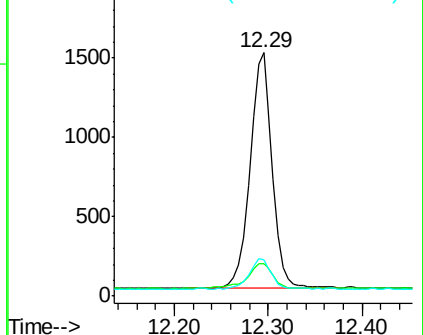
127 14.9 9.8 14.8#

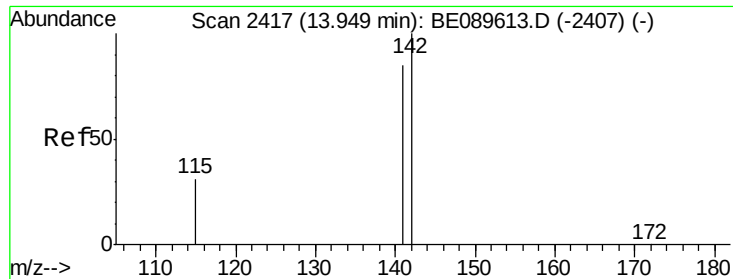


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.06 ng

RT: 13.95 min Scan# 2417

Delta R.T. -0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

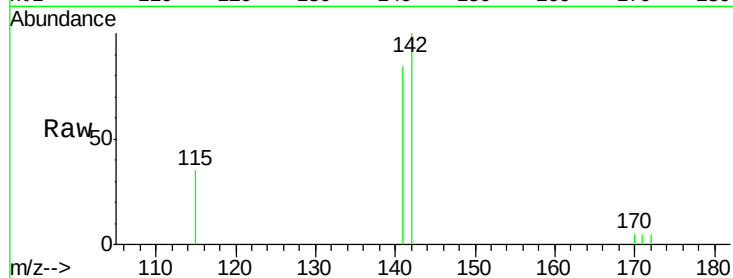
Tgt Ion:142 Resp: 1318

Ion Ratio Lower Upper

142 100

141 84.4 68.3 102.5

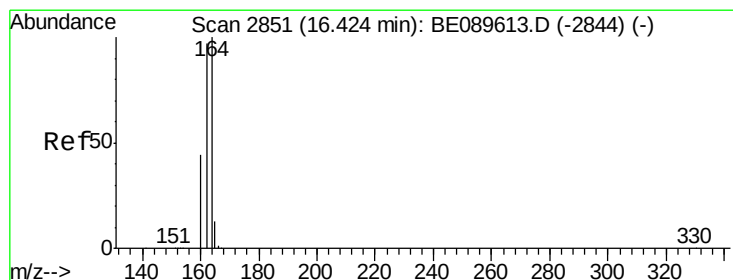
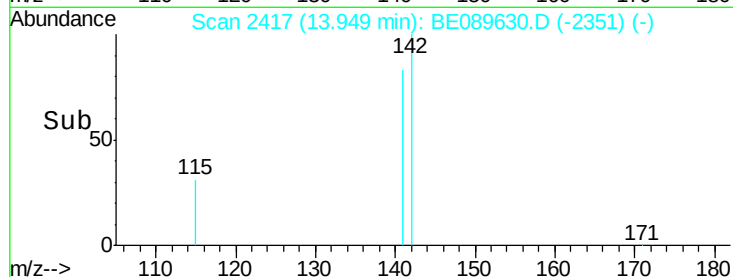
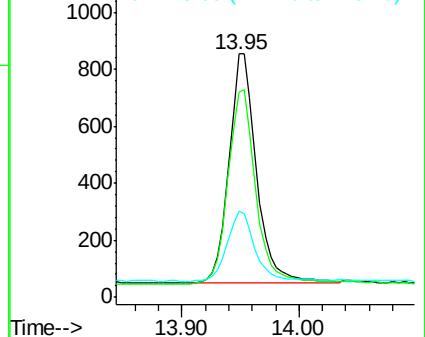
115 35.5 25.1 37.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.43 min Scan# 2852

Delta R.T. 0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

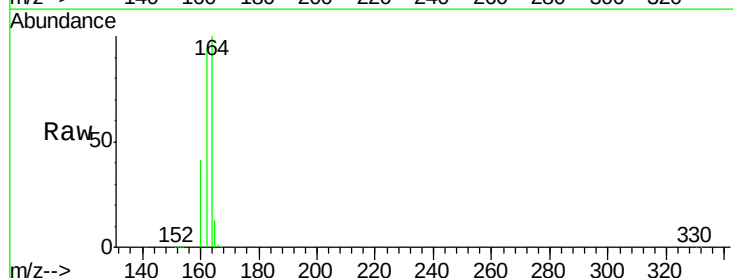
Tgt Ion:164 Resp: 82182

Ion Ratio Lower Upper

164 100

162 93.8 77.5 116.3

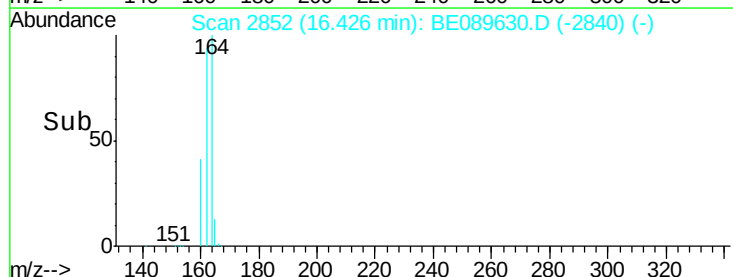
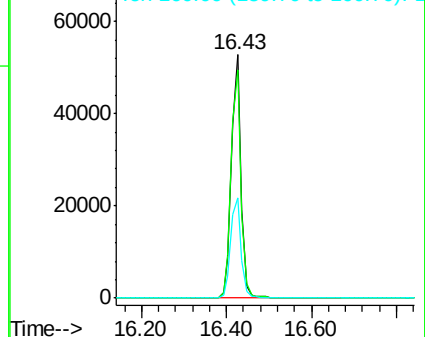
160 41.3 35.5 53.3

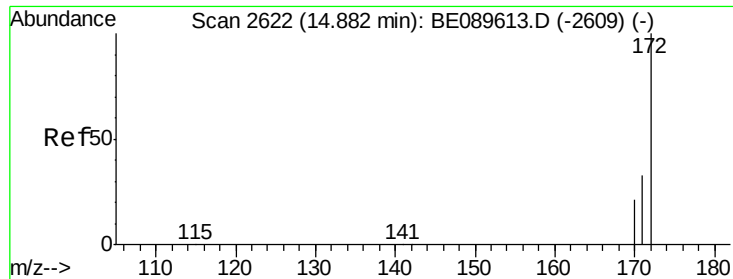


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 8.80 ng

RT: 14.88 min Scan# 2622

Delta R.T. -0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

Instrument :

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ClientSampleId :

MDL-02-S

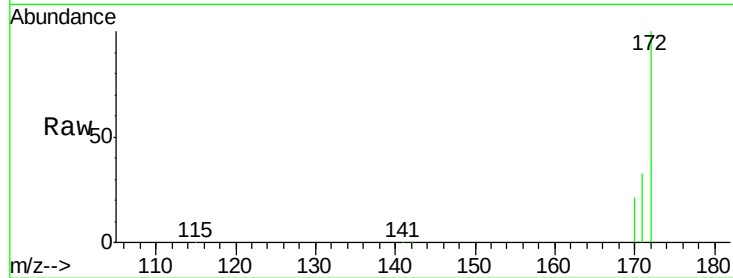
Tgt Ion:172 Resp: 193779

Ion Ratio Lower Upper

172 100

171 33.3 26.9 40.3

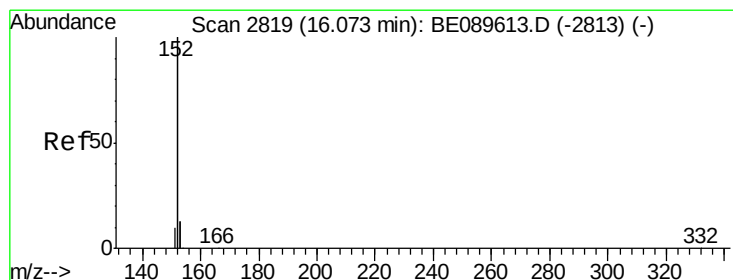
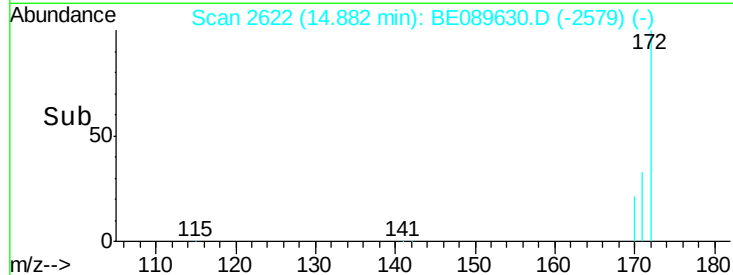
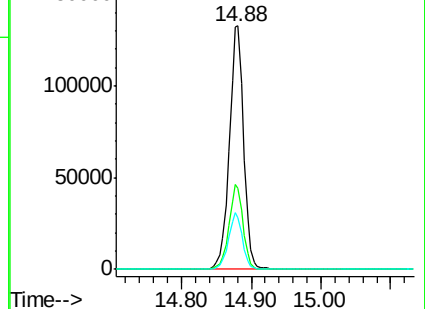
170 21.3 17.4 26.0



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#10

Acenaphthylene

Concen: 0.05 ng

RT: 16.07 min Scan# 2820

Delta R.T. 0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

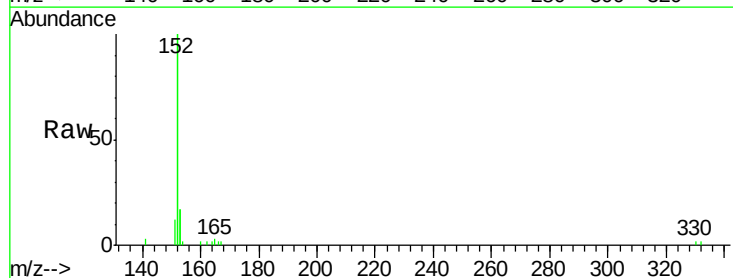
Tgt Ion:152 Resp: 7308

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

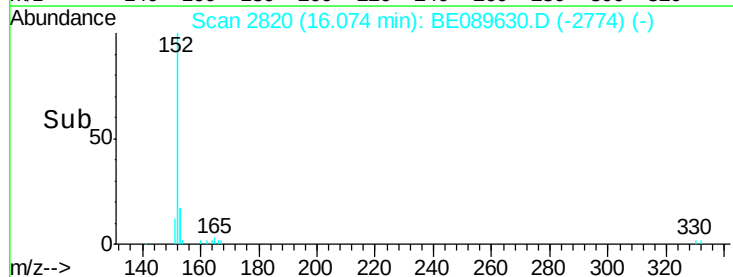
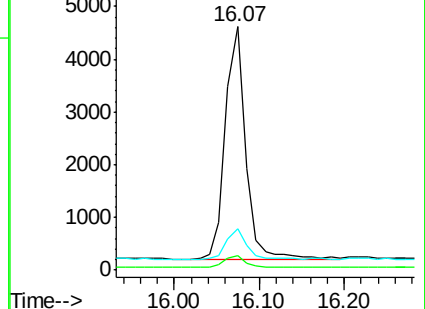
153 13.1 10.5 15.7

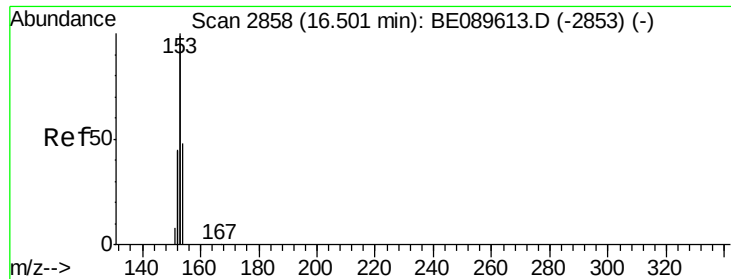


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.06 ng

RT: 16.49 min Scan# 2858

Delta R.T. -0.01 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

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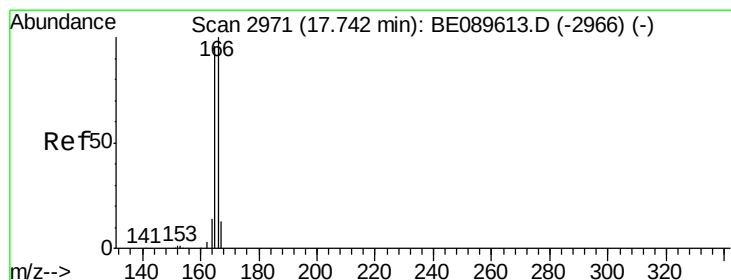
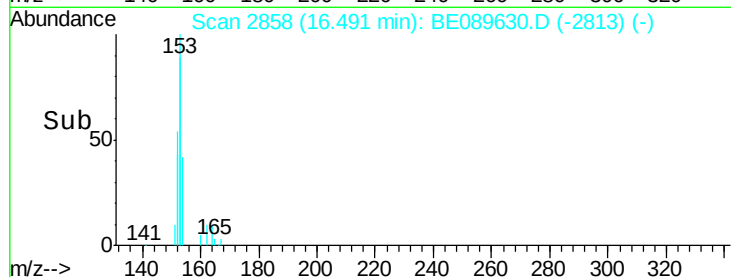
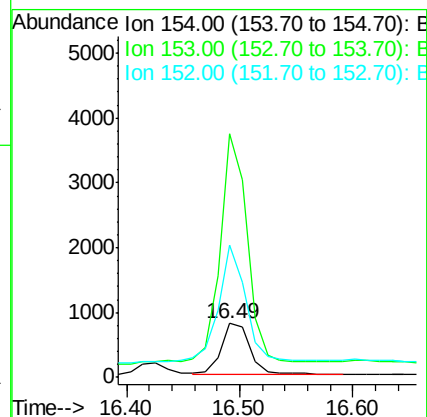
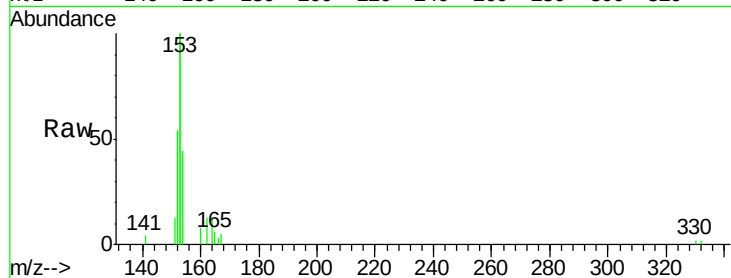
Tgt Ion:154 Resp: 1349

Ion Ratio Lower Upper

154 100

153 454.8 348.9 523.3

152 235.4 166.6 249.8



#12

Fluorene

Concen: 0.06 ng

RT: 17.74 min Scan# 2972

Delta R.T. 0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

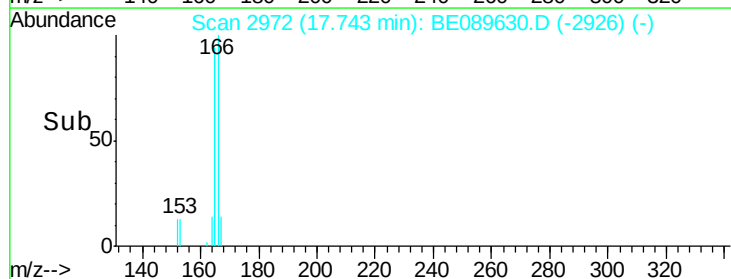
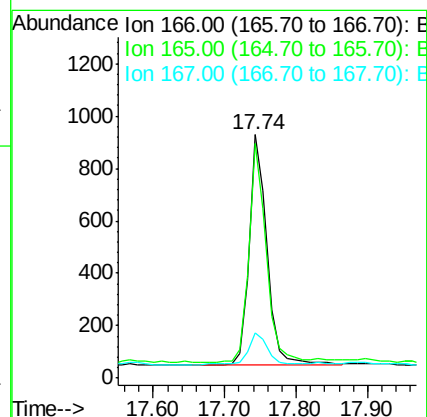
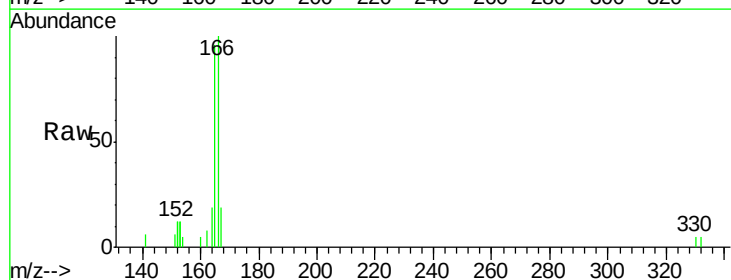
Tgt Ion:166 Resp: 1511

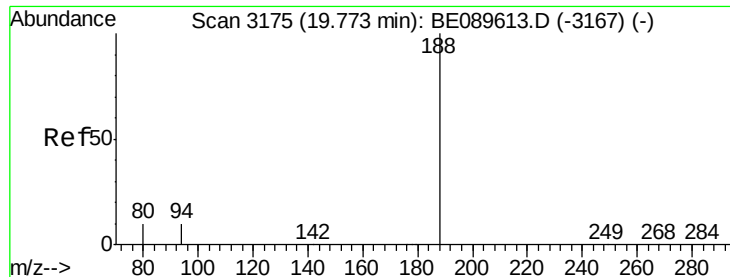
Ion Ratio Lower Upper

166 100

165 90.9 74.7 112.1

167 15.2 10.5 15.7

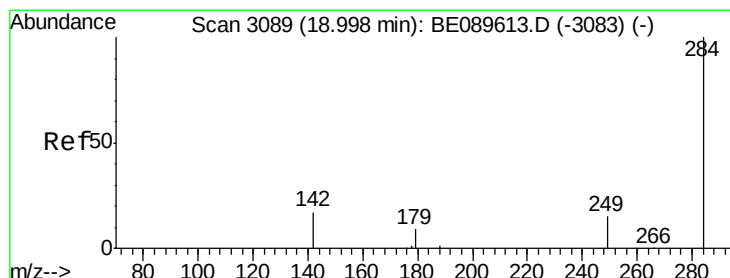
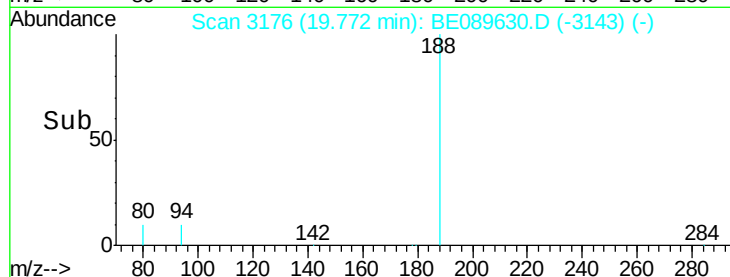
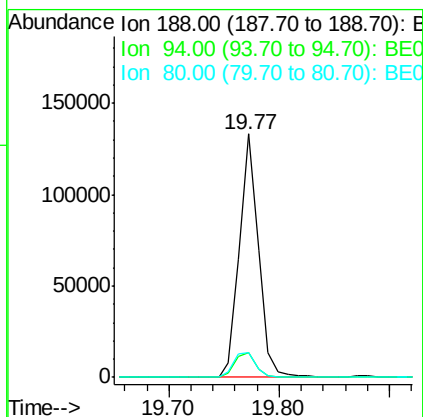
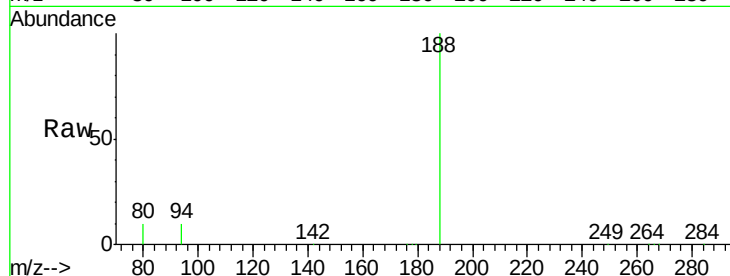




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3176
Delta R.T. -0.00 min
Lab File: BE089630.D
Acq: 18 Feb 2015 23:26

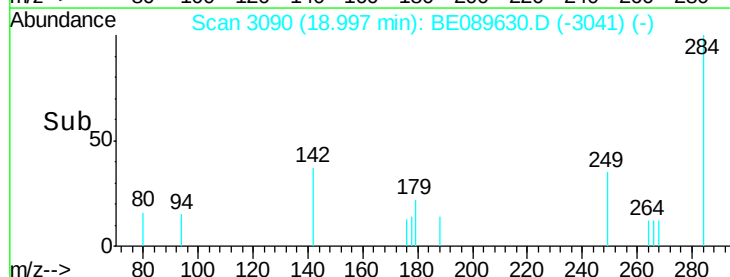
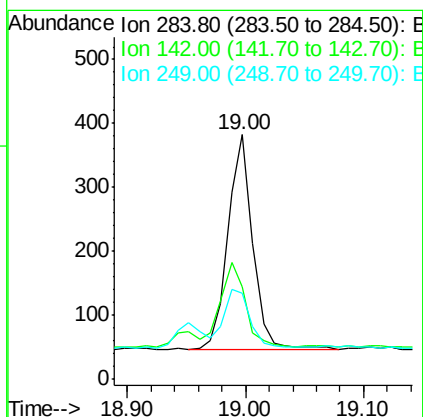
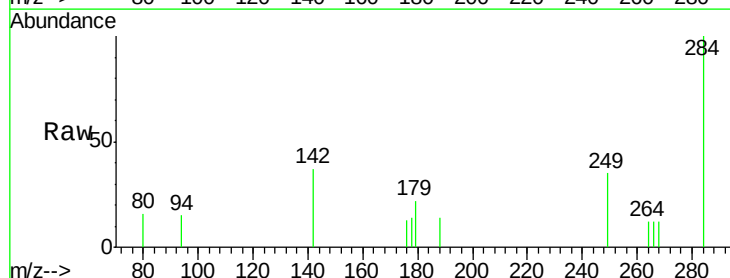
Instrument :
BNA_E
ClientSampleId :
MDL-02-S

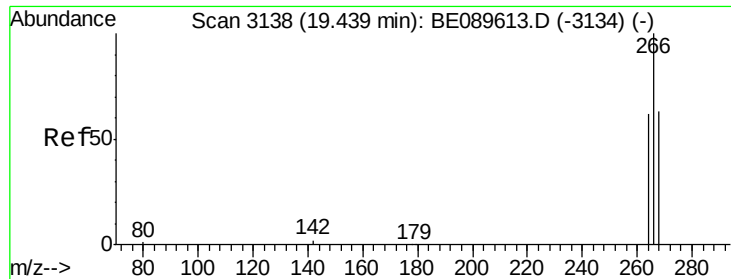
Tgt Ion:188 Resp: 160573
Ion Ratio Lower Upper
188 100
94 10.3 8.2 12.4
80 10.2 8.1 12.1



#14
Hexachlorobenzene
Concen: 0.07 ng
RT: 19.00 min Scan# 3090
Delta R.T. -0.00 min
Lab File: BE089630.D
Acq: 18 Feb 2015 23:26

Tgt Ion:284 Resp: 487
Ion Ratio Lower Upper
284 100
142 47.4 32.3 48.5
249 28.5 22.3 33.5





#15

Pentachlorophenol

Concen: Below Cal

RT: 19.45 min Scan# 3140

Delta R.T. 0.01 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

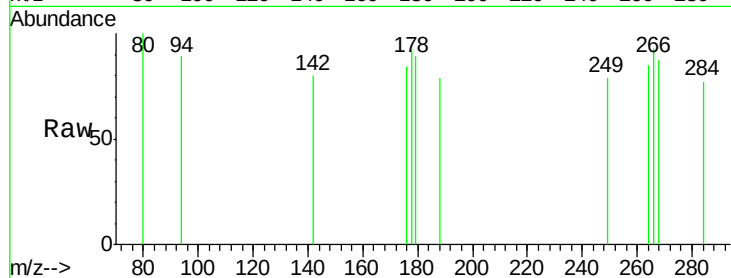
Tgt Ion:266 Resp: 27

Ion Ratio Lower Upper

266 100

268 93.0 52.6 79.0#

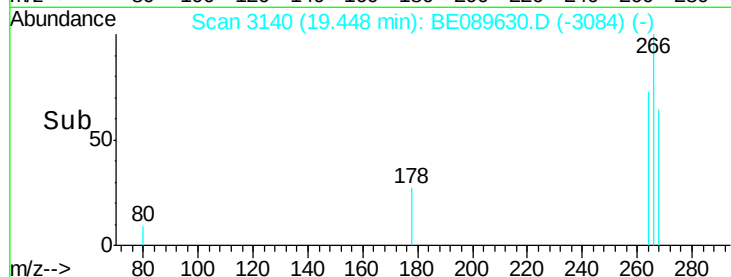
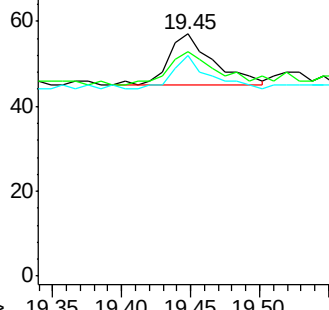
264 91.2 51.8 77.8#



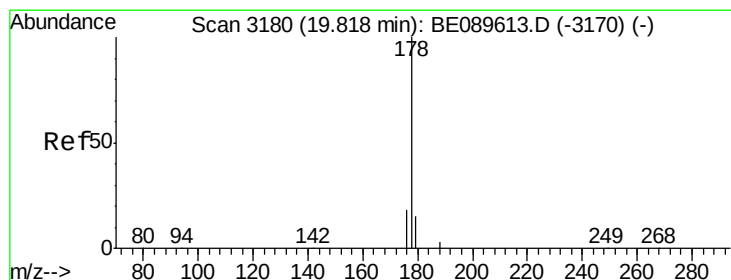
Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



Time-->



#16

Phenanthrene

Concen: 0.07 ng

RT: 19.82 min Scan# 3181

Delta R.T. -0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

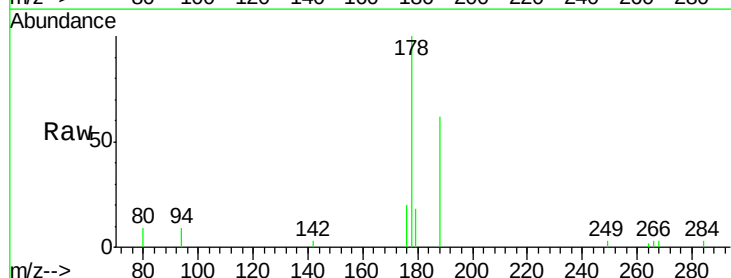
Tgt Ion:178 Resp: 2650

Ion Ratio Lower Upper

178 100

176 18.4 15.1 22.7

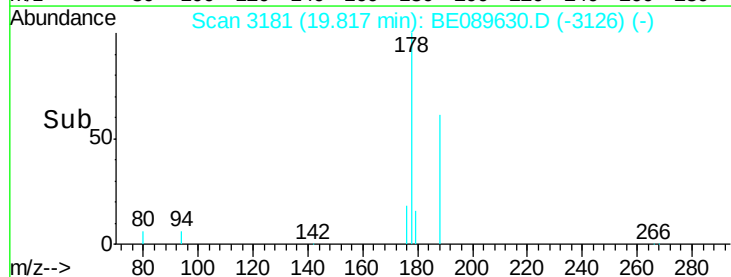
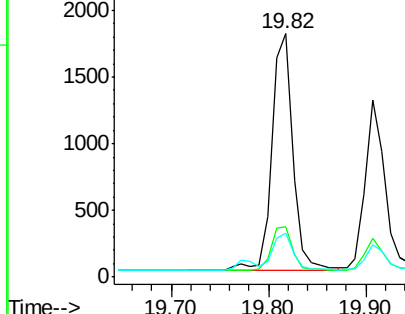
179 15.4 12.3 18.5



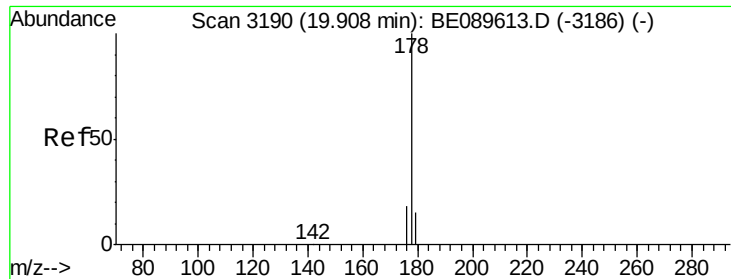
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



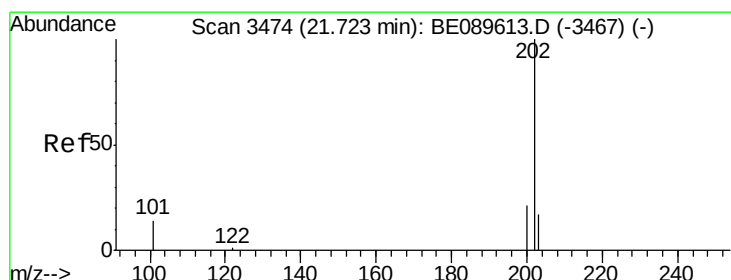
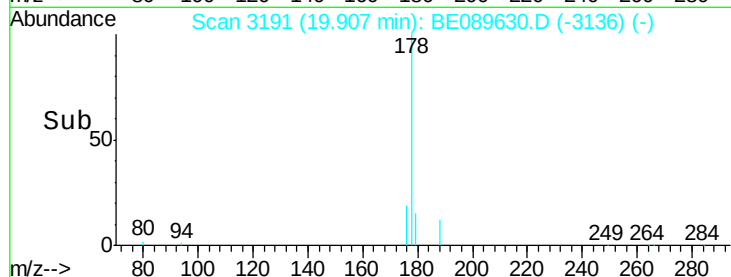
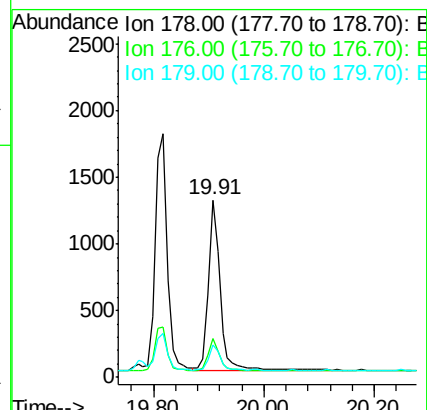
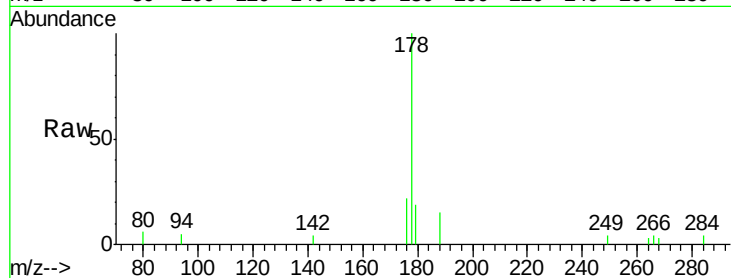
Time-->



#17
 Anthracene
 Concen: 0.06 ng
 RT: 19.91 min Scan# 3191
 Delta R.T. -0.00 min
 Lab File: BE089630.D
 Acq: 18 Feb 2015 23:26

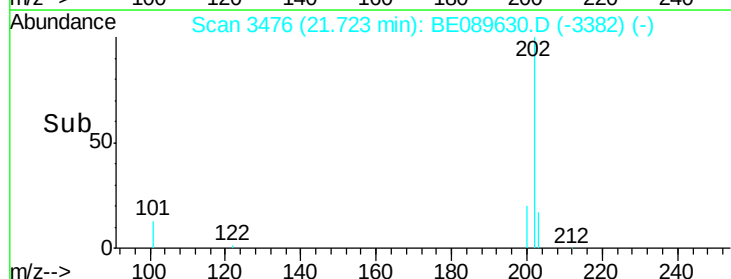
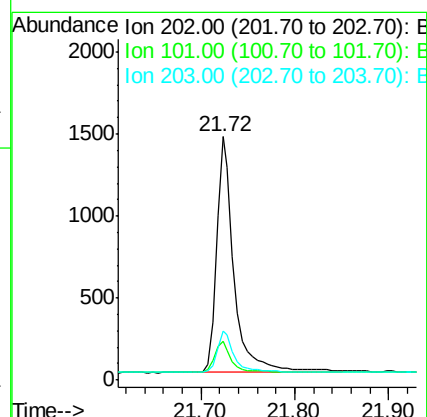
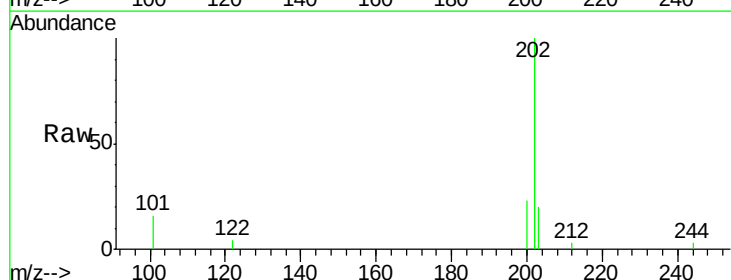
Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-S

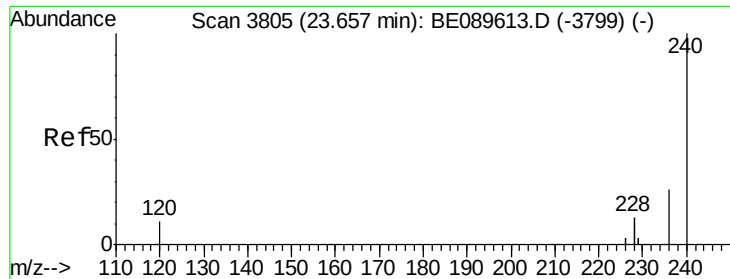
Tgt Ion:178 Resp: 1878
 Ion Ratio Lower Upper
 178 100
 176 16.6 14.6 22.0
 179 14.1 12.3 18.5



#18
 Fluoranthene
 Concen: 0.05 ng
 RT: 21.72 min Scan# 3476
 Delta R.T. 0.00 min
 Lab File: BE089630.D
 Acq: 18 Feb 2015 23:26

Tgt Ion:202 Resp: 1891
 Ion Ratio Lower Upper
 202 100
 101 12.6 10.4 15.6
 203 17.0 13.9 20.9





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3807

Delta R.T. 0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

Instrument :

BNA_E

ClientSampled :

MDL-02-S

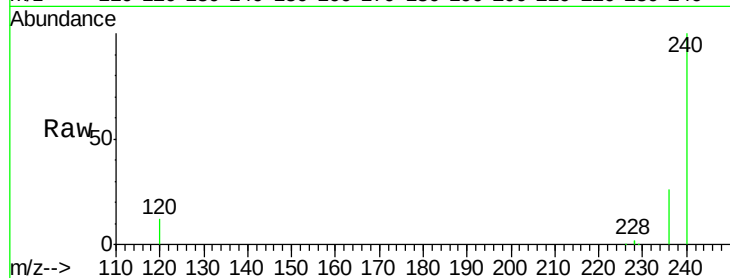
Tgt Ion:240 Resp: 144678

Ion Ratio Lower Upper

240 100

120 11.8 9.0 13.4

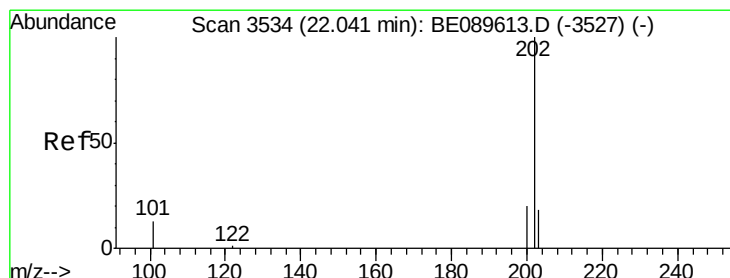
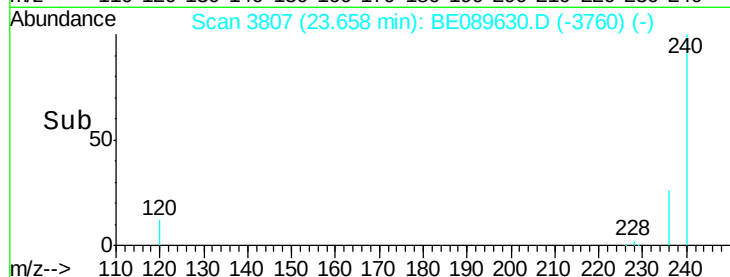
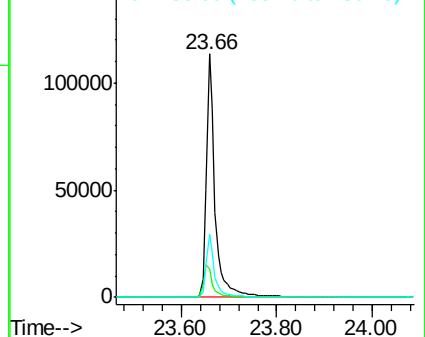
236 26.1 21.0 31.6



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#20

Pyrene

Concen: 0.06 ng

RT: 22.04 min Scan# 3536

Delta R.T. 0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

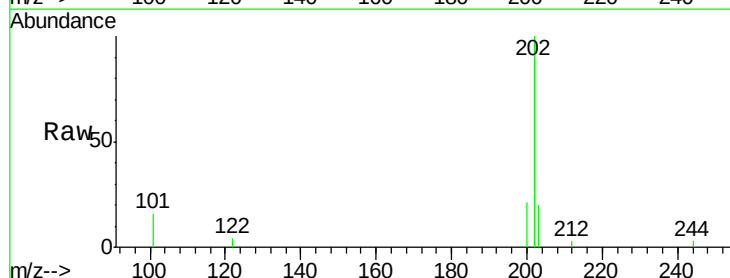
Tgt Ion:202 Resp: 1994

Ion Ratio Lower Upper

202 100

200 20.2 16.3 24.5

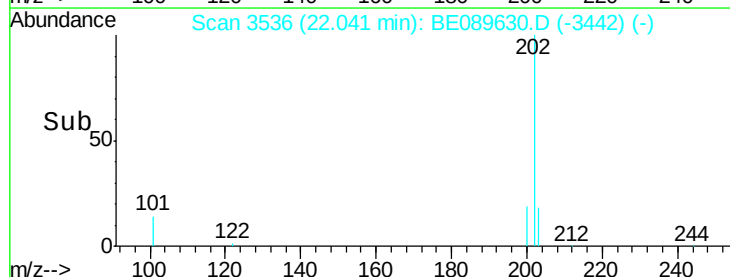
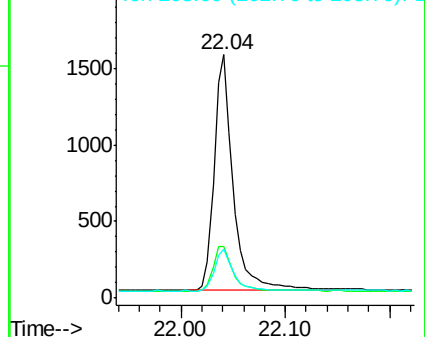
203 17.8 13.8 20.8

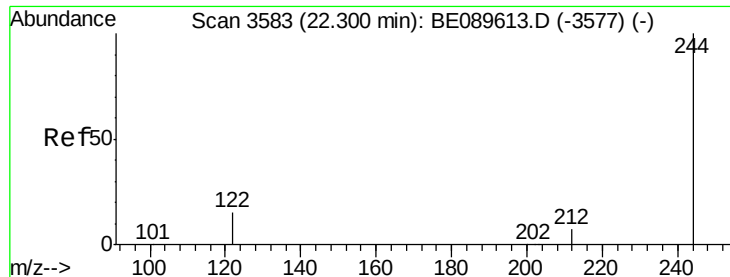


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 11.27 ng

RT: 22.30 min Scan# 3585

Delta R.T. 0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

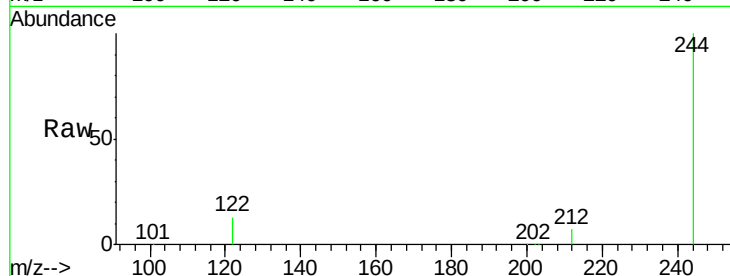
Tgt Ion:244 Resp: 234529

Ion Ratio Lower Upper

244 100

212 7.0 5.8 8.8

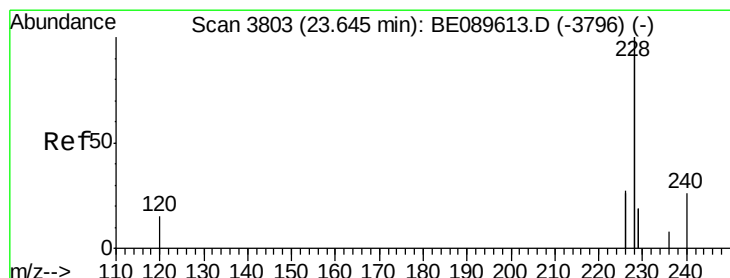
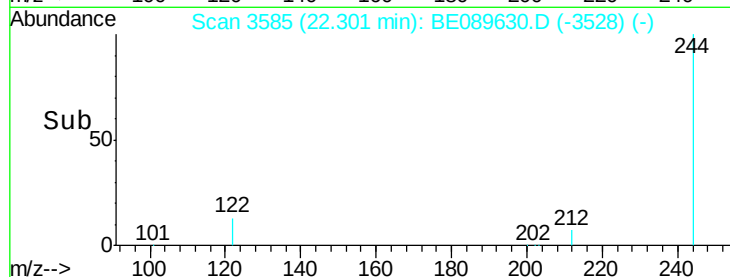
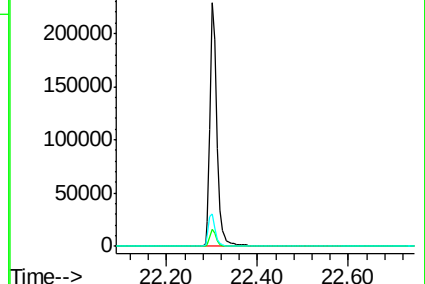
122 13.4 11.8 17.8



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#22

Benzo(a)anthracene

Concen: 0.06 ng

RT: 23.65 min Scan# 3806

Delta R.T. 0.01 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

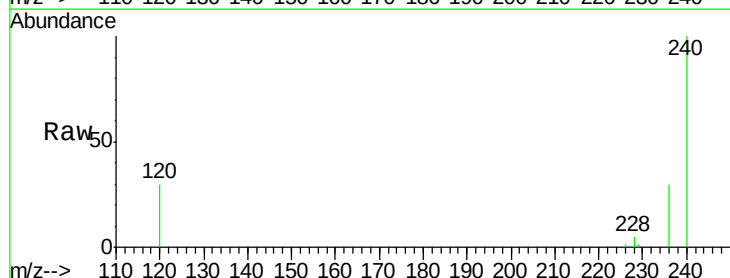
Tgt Ion:228 Resp: 7091

Ion Ratio Lower Upper

228 100

226 24.7 21.2 31.8

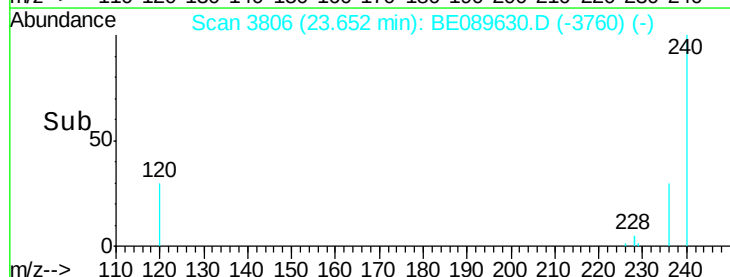
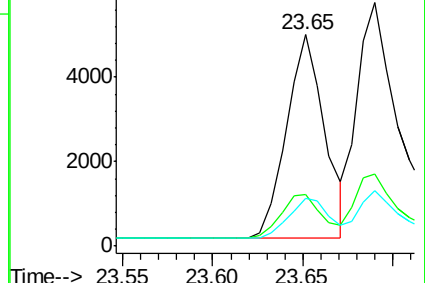
229 22.7 15.2 22.8

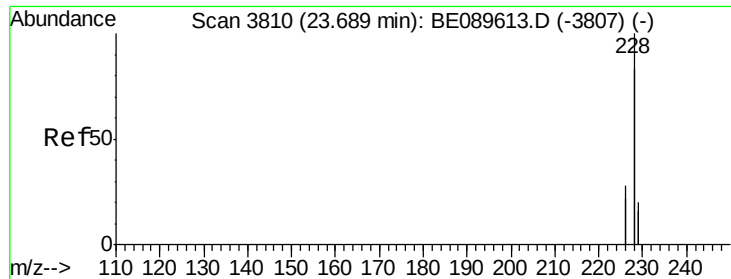


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.08 ng

RT: 23.69 min Scan# 3812

Delta R.T. 0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

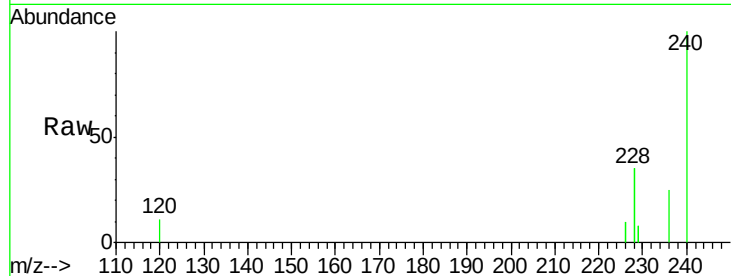
Tgt Ion:228 Resp: 11361

Ion Ratio Lower Upper

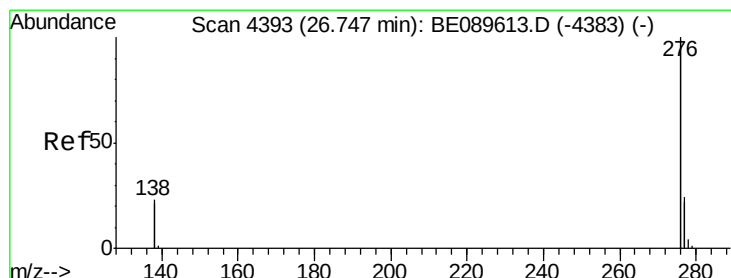
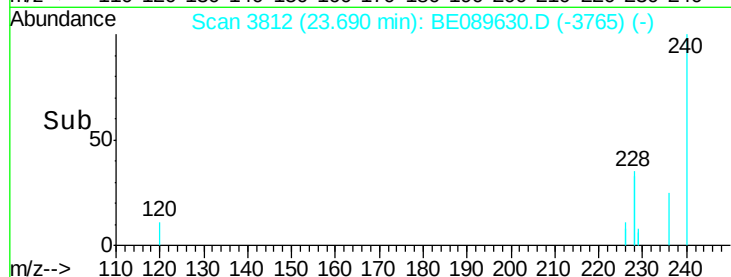
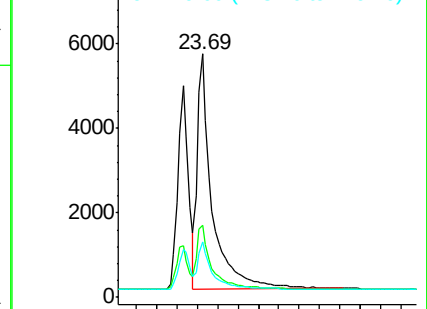
228 100

226 29.8 22.2 33.4

229 22.6 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.19 ng

RT: 26.75 min Scan# 4395

Delta R.T. 0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

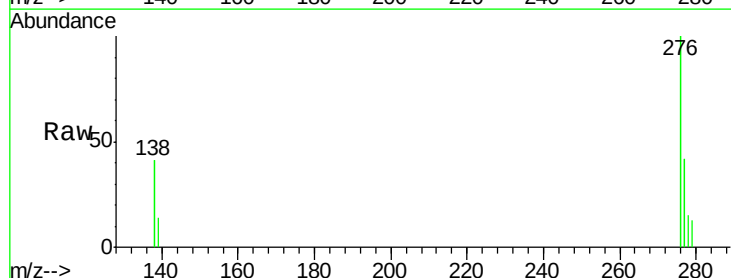
Tgt Ion:276 Resp: 1977

Ion Ratio Lower Upper

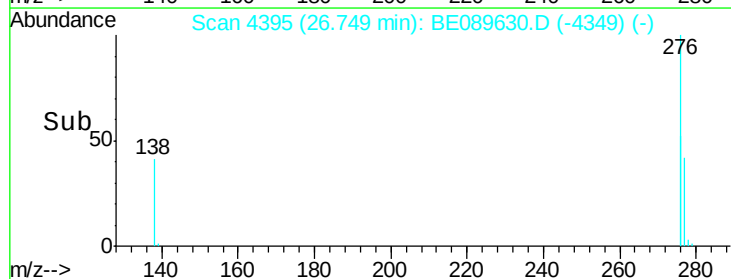
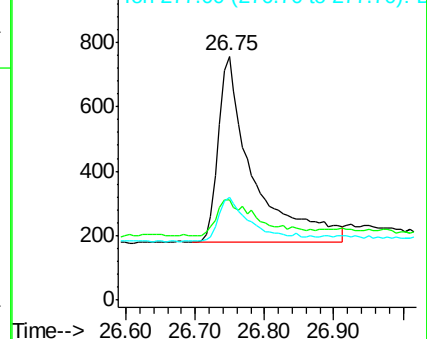
276 100

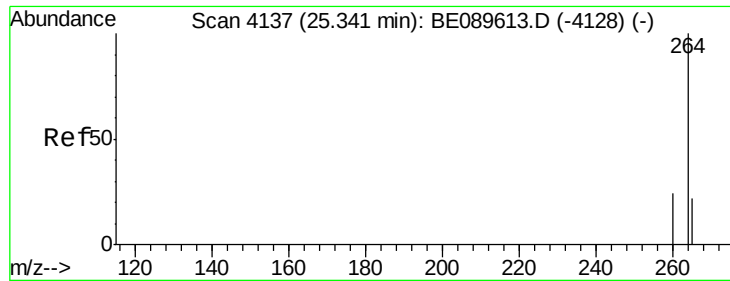
138 23.8 21.4 32.2

277 21.1 19.9 29.9



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





#25

Perylene-d12

Concen: 5.00 ng

RT: 25.34 min Scan# 4139

Delta R.T. 0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

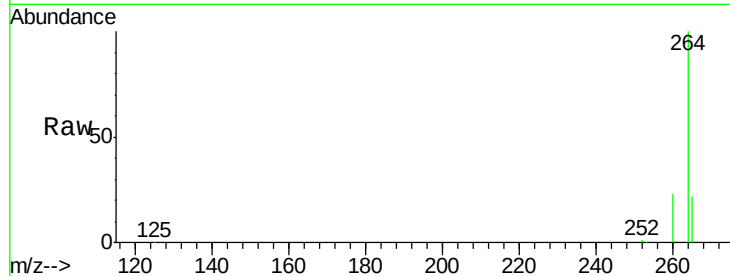
Tgt Ion:264 Resp: 116374

Ion Ratio Lower Upper

264 100

260 23.4 19.0 28.6

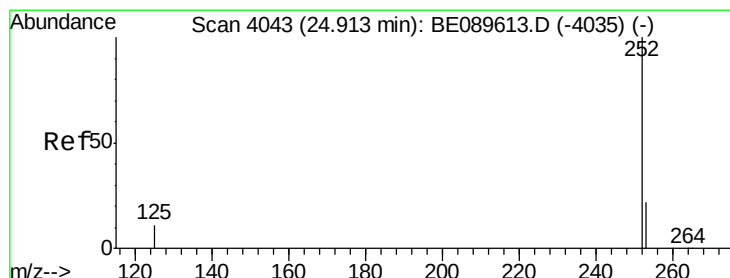
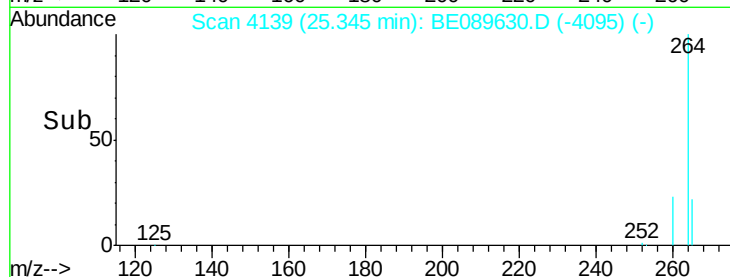
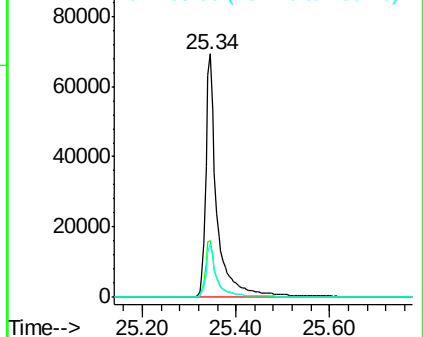
265 21.9 17.4 26.0



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#26

Benzo(b)fluoranthene

Concen: 0.29 ng

RT: 24.91 min Scan# 4044

Delta R.T. -0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

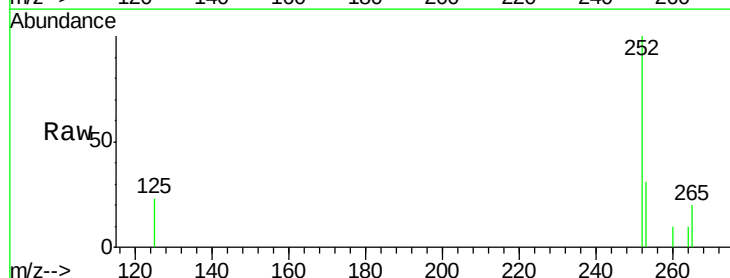
Tgt Ion:252 Resp: 459

Ion Ratio Lower Upper

252 100

253 31.3 17.6 26.4#

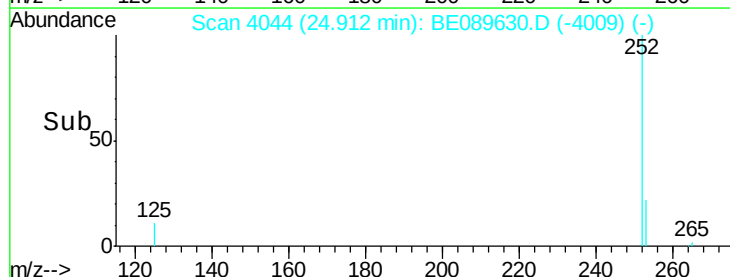
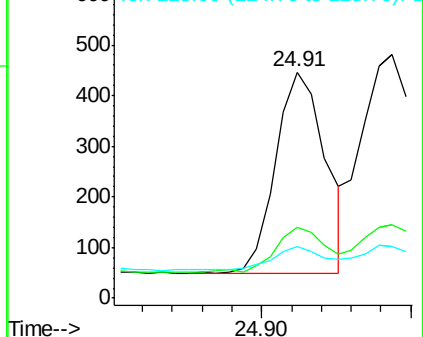
125 22.6 8.8 13.2#

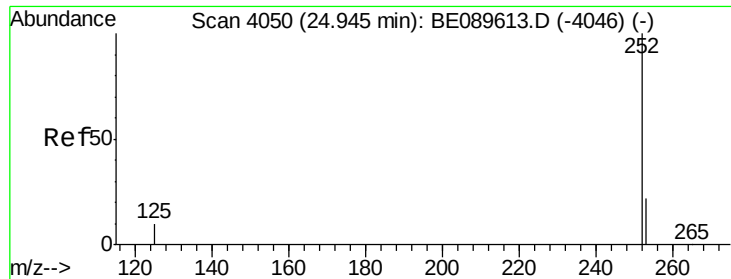


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#27

Benzo(k)fluoranthene

Concen: 0.03 ng

RT: 24.94 min Scan# 4051

Delta R.T. -0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

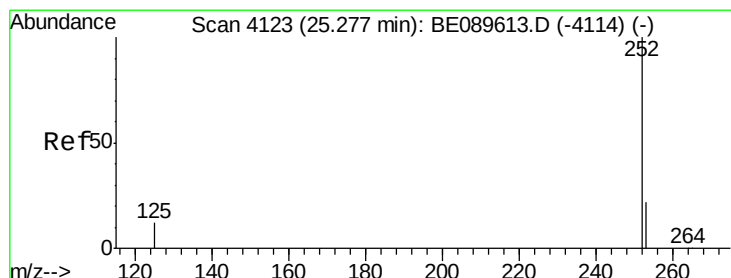
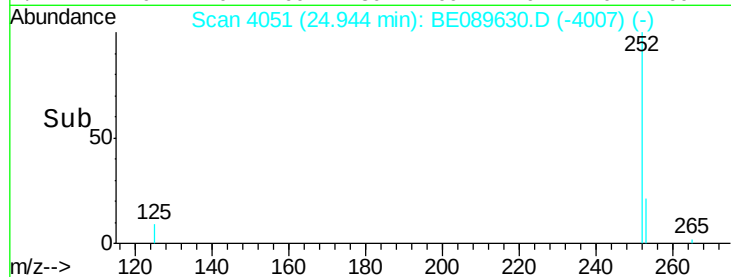
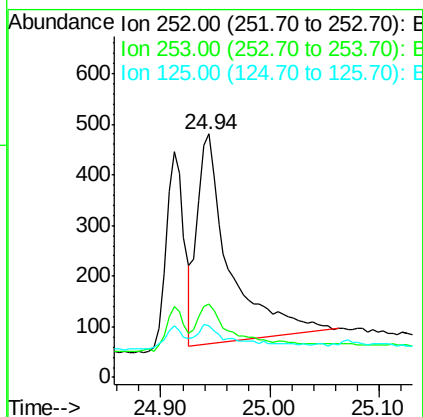
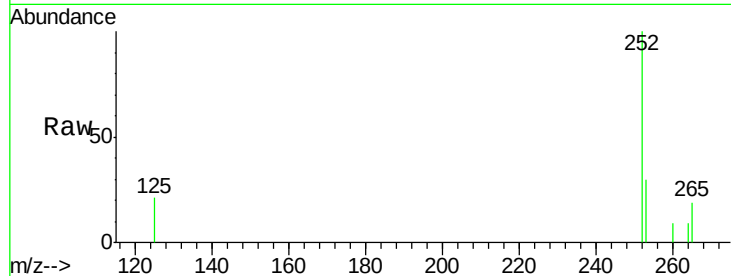
Tgt Ion:252 Resp: 856

Ion Ratio Lower Upper

252 100

253 30.4 17.7 26.5#

125 21.0 8.8 13.2#



#28

Benzo(a)pyrene

Concen: 0.26 ng

RT: 25.27 min Scan# 4123

Delta R.T. -0.01 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

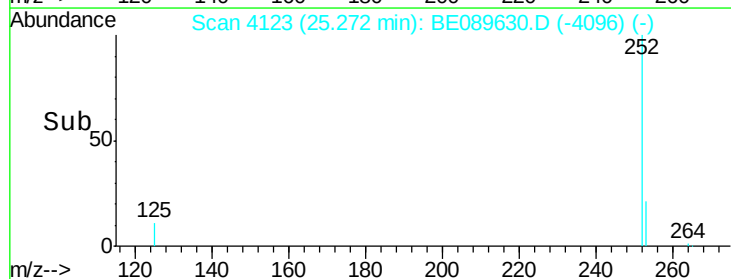
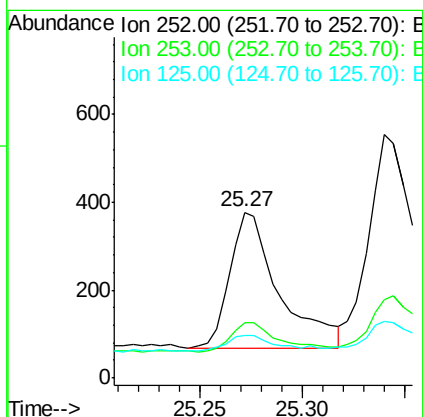
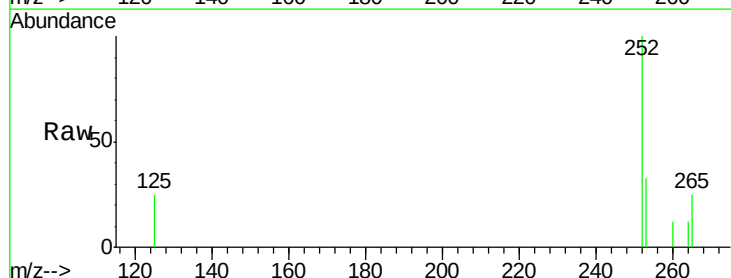
Tgt Ion:252 Resp: 511

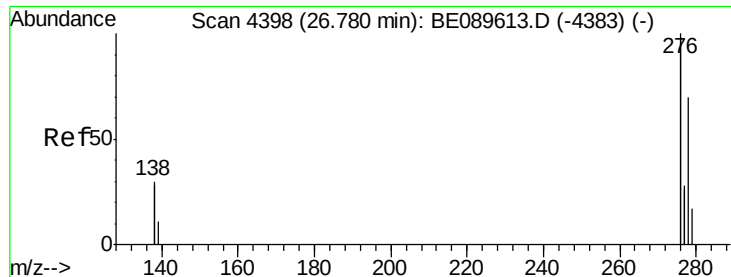
Ion Ratio Lower Upper

252 100

253 33.4 18.1 27.1#

125 25.5 9.6 14.4#





#29

Dibenzo(a,h)anthracene

Concen: 0.24 ng

RT: 26.78 min Scan# 4400

Delta R.T. 0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

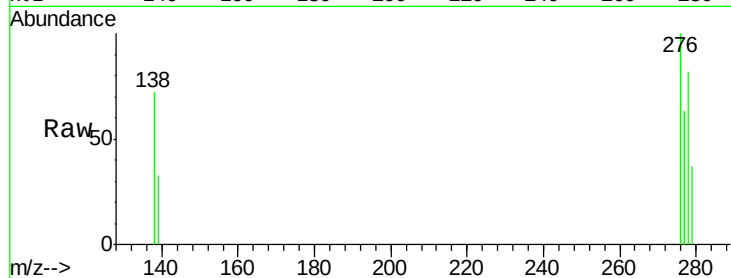
Tgt Ion:278 Resp: 357

Ion Ratio Lower Upper

278 100

139 39.9 13.7 20.5#

279 45.6 19.7 29.5#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

26.78

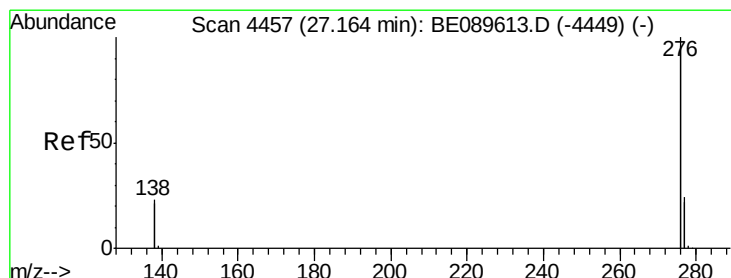
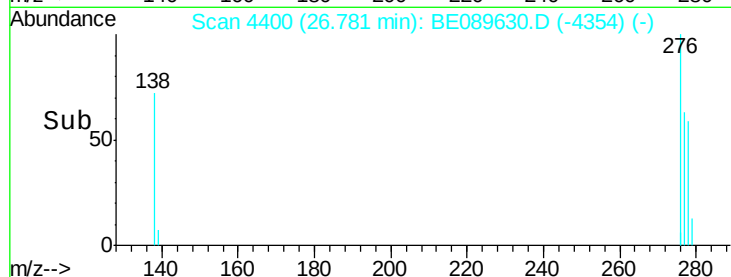
150

100

50

0

Time--> 26.60 26.70 26.80 26.90



#30

Benzo(g,h,i)perylene

Concen: 0.16 ng

RT: 27.16 min Scan# 4458

Delta R.T. -0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

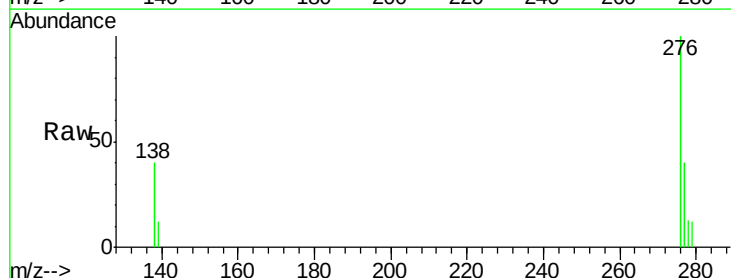
Tgt Ion:276 Resp: 2534

Ion Ratio Lower Upper

276 100

277 40.2 19.1 28.7#

138 40.5 18.7 28.1#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

27.16

1200

1000

800

600

400

200

0

Time--> 27.00 27.10 27.20 27.30

