

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022415\
 Data File : BE089676.D
 Acq On : 24 Feb 2015 18:14
 Operator : TP/JJ
 Sample : MDL-02-S
 Misc : MDL-SOIL-0.2/0.4
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-S

Quant Time: Feb 25 04:19:16 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE022415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 25 04:05:13 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	53981	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	225675	5.00	ng	0.00
8) Acenaphthene-d10	16.41	164	100943	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	185474	5.00	ng	0.00
19) Chrysene-d12	23.66	240	140926	5.00	ng	0.00
25) Perylene-d12	25.34	264	107588	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	116523	8.70	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	208923	9.31	ng	0.00
21) Terphenyl-d14	22.30	244	195221	11.81	ng	0.00

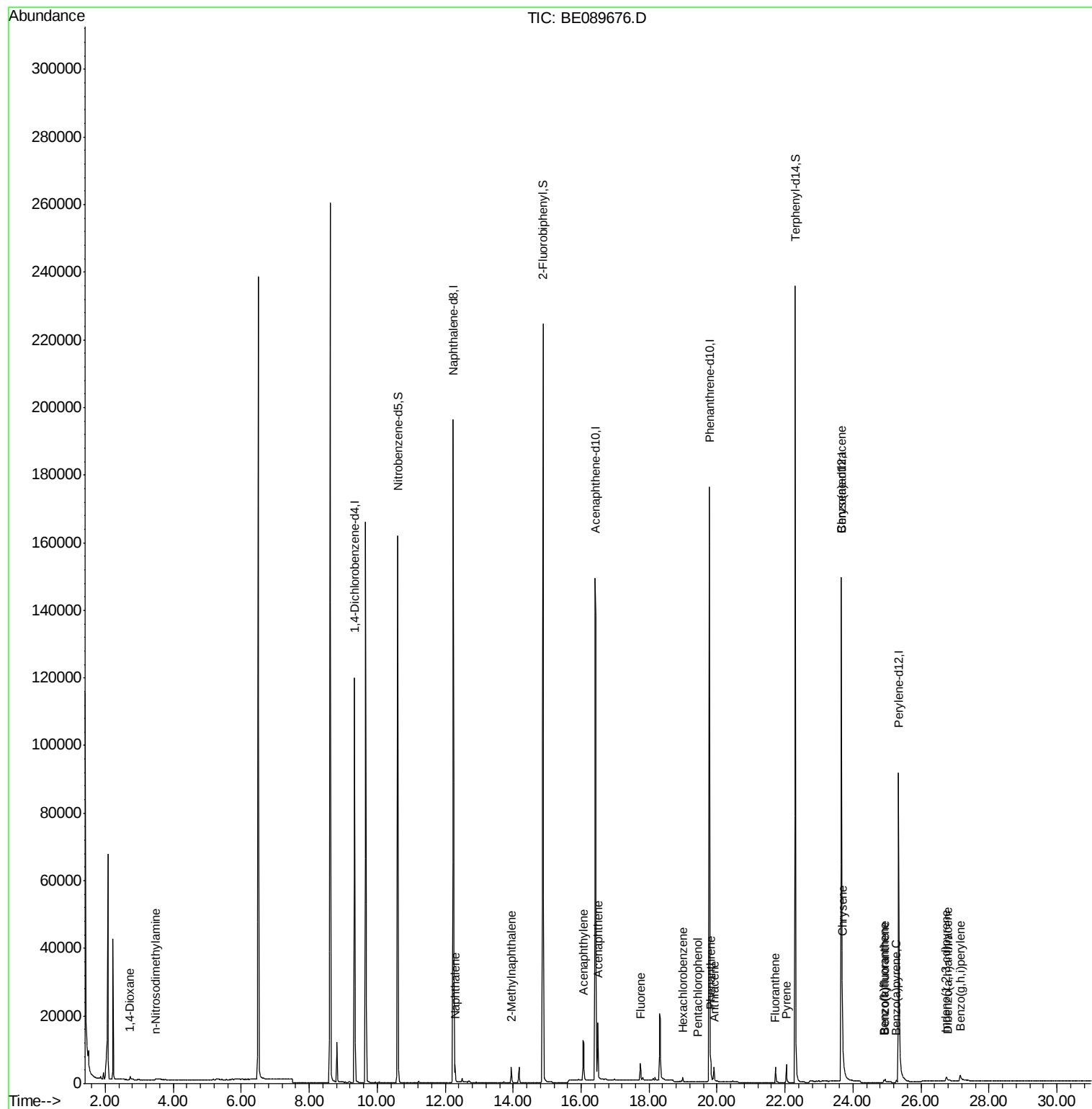
Target Compounds						Qvalue
2) 1,4-Dioxane	2.72	88	852	0.13	ng	# 82
3) n-Nitrosodimethylamine	3.48	42	910	0.17	ng	# 95
6) Naphthalene	12.29	128	6558	0.15	ng	98
7) 2-Methylnaphthalene	13.95	142	3393	0.14	ng	99
10) Acenaphthylene	16.06	152	18404	0.13	ng	100
11) Acenaphthene	16.49	154	3375	0.15	ng	98
12) Fluorene	17.74	166	3695	0.15	ng	98
14) Hexachlorobenzene	18.99	284	745	0.16	ng	96
15) Pentachlorophenol	19.44	266	49	0.32	ng	# 74
16) Phenanthrene	19.81	178	6014	0.15	ng	97
17) Anthracene	19.91	178	4533	0.13	ng	99
18) Fluoranthene	21.72	202	4175	0.13	ng	98
20) Pyrene	22.04	202	4548	0.13	ng	100
22) Benzo(a)anthracene	23.65	228	12563	0.14	ng	98
23) Chrysene	23.68	228	21231	0.17	ng	98
24) Indeno(1,2,3-cd)pyrene	26.74	276	3085	0.30	ng	# 47
26) Benzo(b)fluoranthene	24.91	252	719	0.36	ng	# 88
27) Benzo(k)fluoranthene	24.94	252	1652	0.20	ng	# 89
28) Benzo(a)pyrene	25.27	252	825	0.13	ng	# 88
29) Dibenzo(a,h)anthracene	26.77	278	473	0.34	ng	# 80
30) Benzo(g,h,i)perylene	27.15	276	4037	0.38	ng	# 89

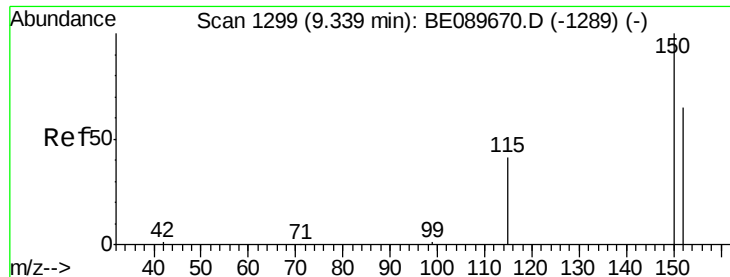
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1299

Delta R.T. -0.00 min

Lab File: BE089676.D

Acq: 24 Feb 2015 18:14

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

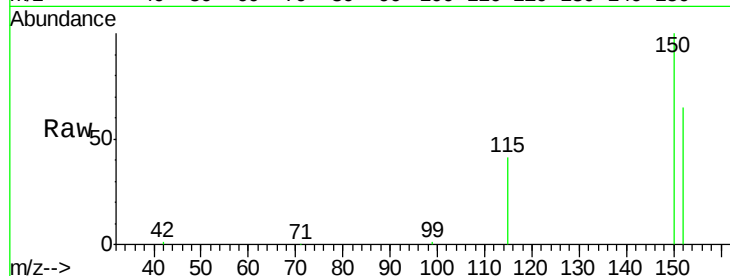
Tgt Ion: 152 Resp: 53981

Ion Ratio Lower Upper

152 100

150 154.7 123.4 185.0

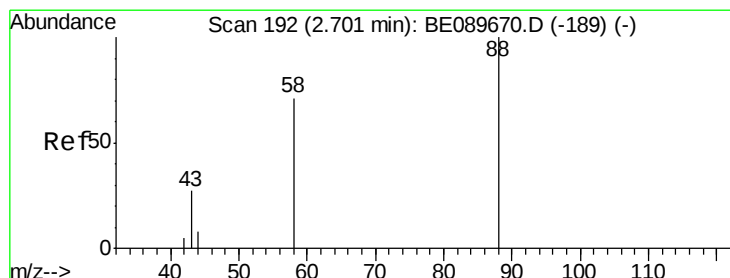
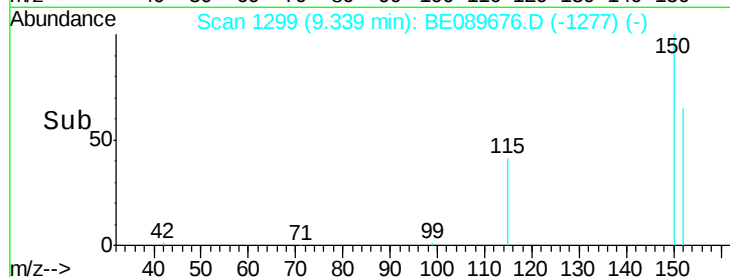
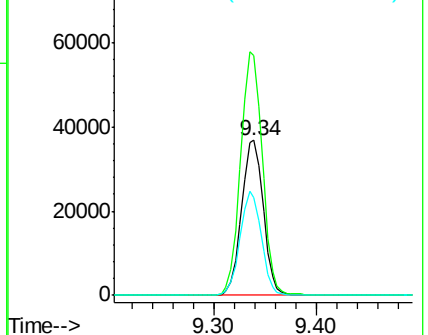
115 63.2 50.8 76.2



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: 0.13 ng

RT: 2.72 min Scan# 195

Delta R.T. 0.02 min

Lab File: BE089676.D

Acq: 24 Feb 2015 18:14

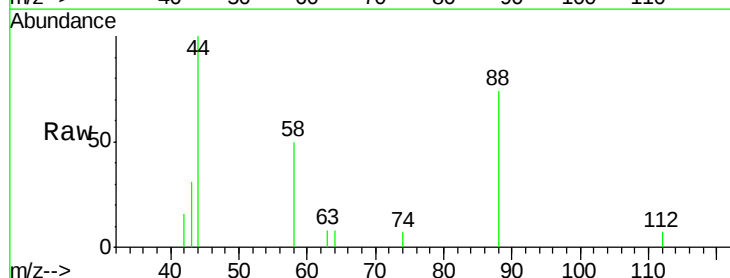
Tgt Ion: 88 Resp: 852

Ion Ratio Lower Upper

88 100

58 77.2 62.4 93.6

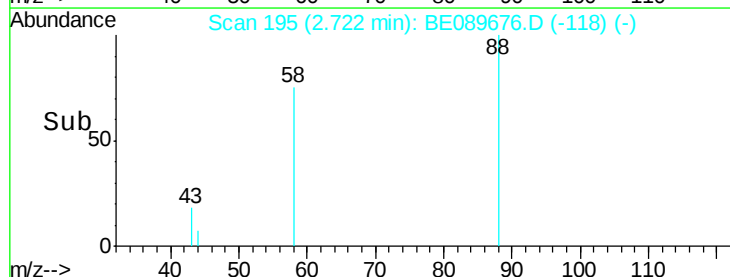
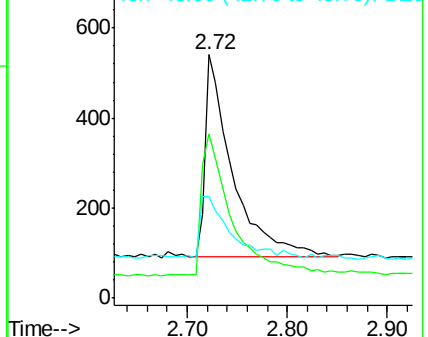
43 0.0 26.6 40.0#

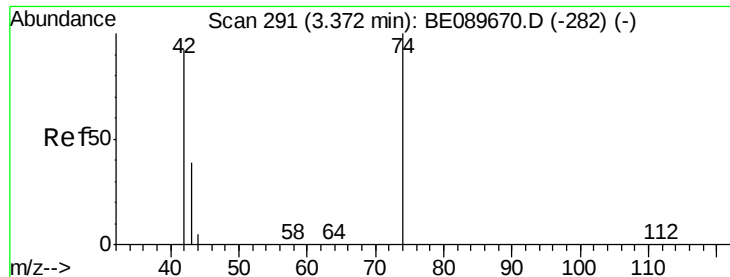


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.17 ng

RT: 3.48 min Scan# 307

Delta R.T. 0.11 min

Lab File: BE089676.D

Acq: 24 Feb 2015 18:14

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

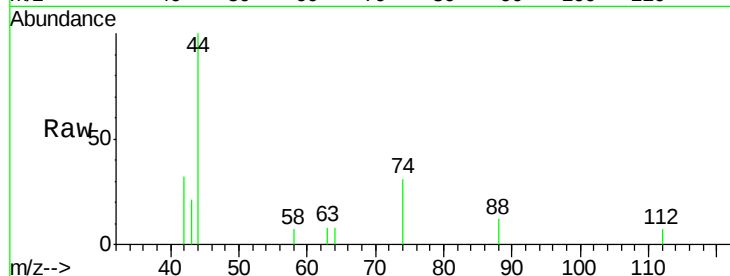
Tgt Ion: 42 Resp: 910

Ion Ratio Lower Upper

42 100

74 118.8 91.1 136.7

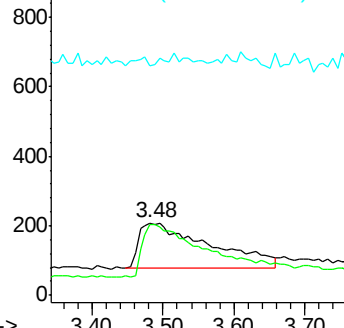
44 3.5 4.7 7.1#



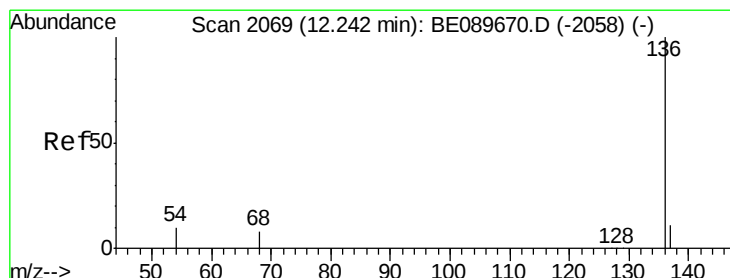
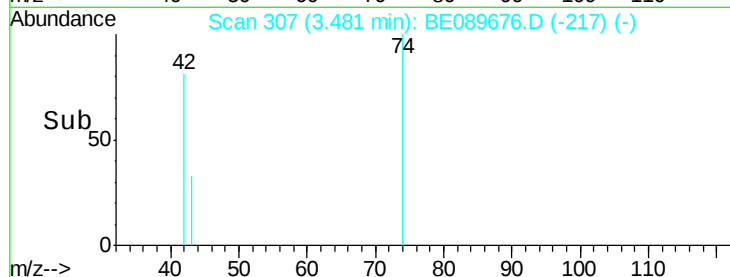
Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



Time-->



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 12.24 min Scan# 2069

Delta R.T. -0.00 min

Lab File: BE089676.D

Acq: 24 Feb 2015 18:14

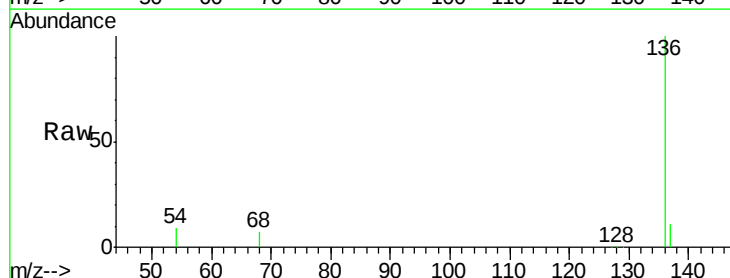
Tgt Ion: 136 Resp: 225675

Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

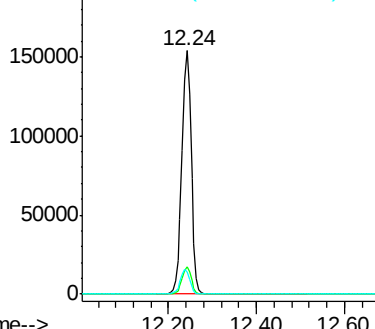
54 9.2 7.8 11.8



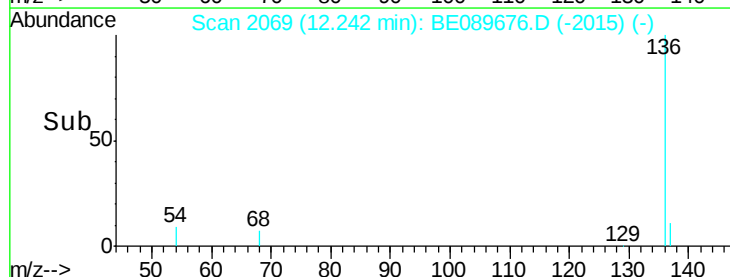
Abundance Ion 136.00 (135.70 to 136.70): E

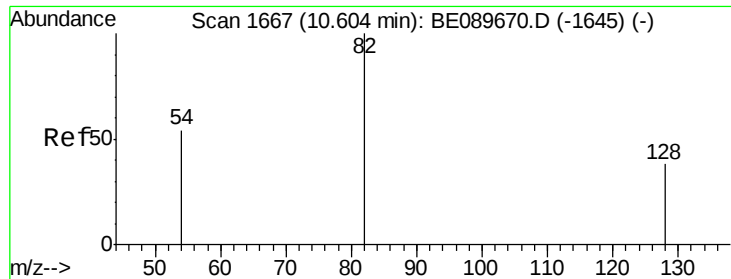
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0



Time-->





#5

Nitrobenzene-d5

Concen: 8.70 ng

RT: 10.60 min Scan# 1667

Delta R.T. 0.00 min

Lab File: BE089676.D

Acq: 24 Feb 2015 18:14

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

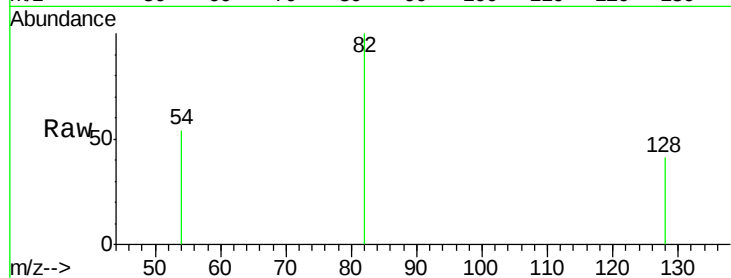
Tgt Ion: 82 Resp: 116523

Ion Ratio Lower Upper

82 100

128 40.6 30.6 46.0

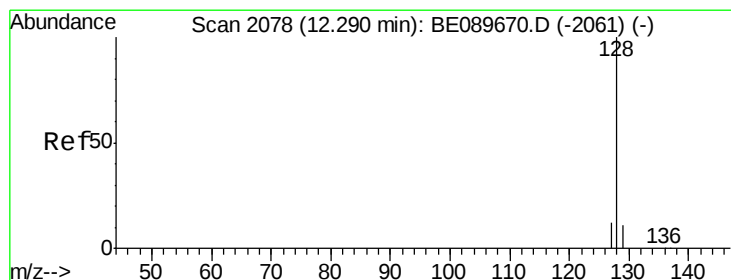
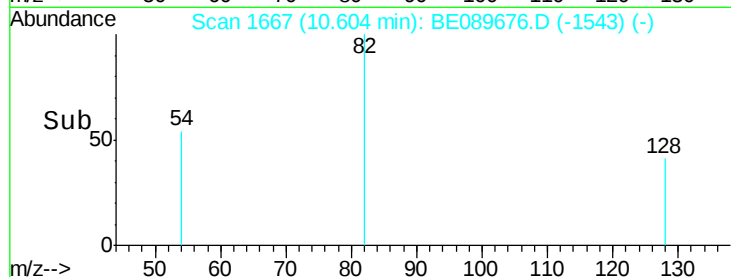
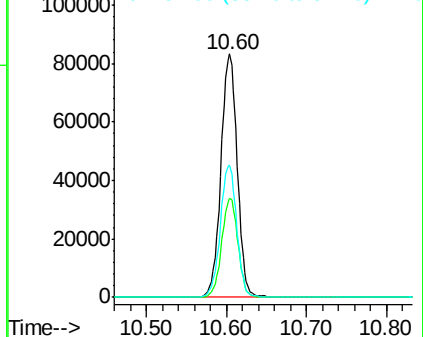
54 54.1 43.6 65.4



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: 0.15 ng

RT: 12.29 min Scan# 2078

Delta R.T. -0.00 min

Lab File: BE089676.D

Acq: 24 Feb 2015 18:14

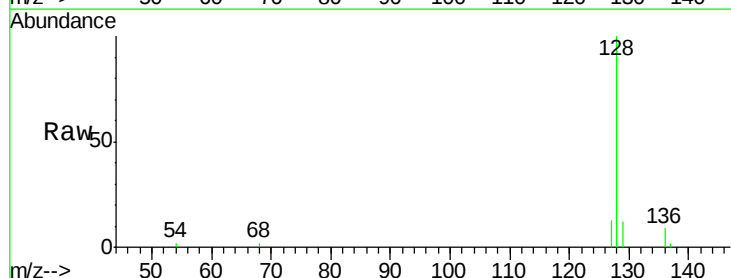
Tgt Ion: 128 Resp: 6558

Ion Ratio Lower Upper

128 100

129 11.8 8.9 13.3

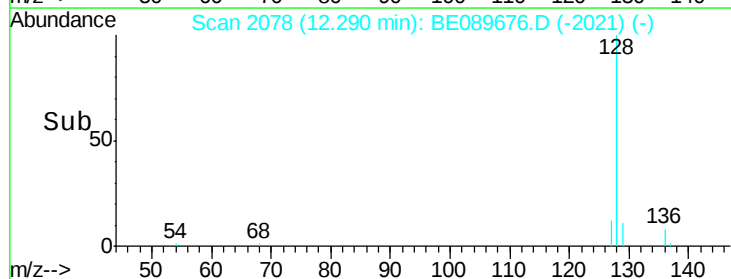
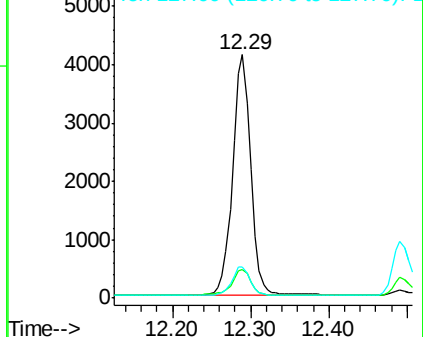
127 12.9 9.7 14.5

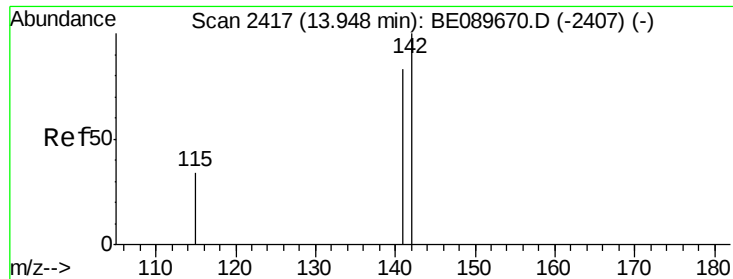


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.14 ng

RT: 13.95 min Scan# 2417

Delta R.T. 0.00 min

Lab File: BE089676.D

Acq: 24 Feb 2015 18:14

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

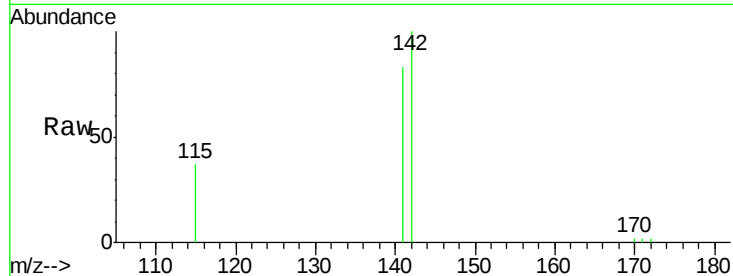
Tgt Ion:142 Resp: 3393

Ion Ratio Lower Upper

142 100

141 82.6 66.0 99.0

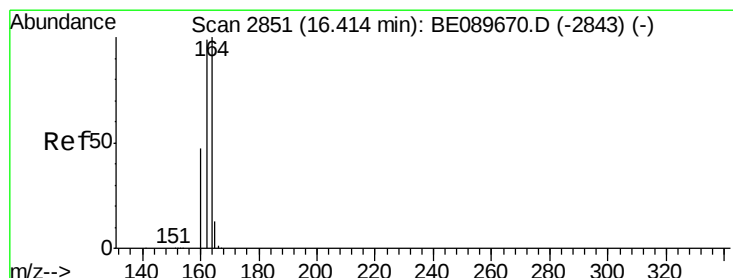
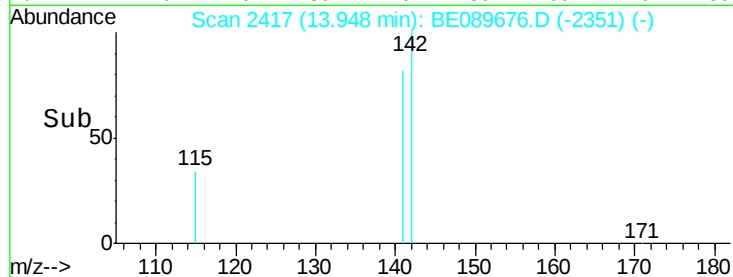
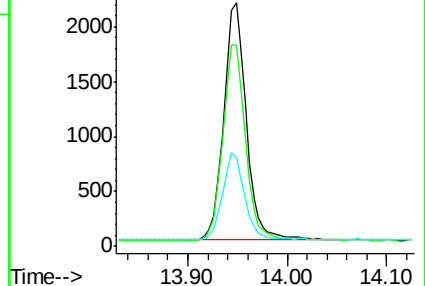
115 36.5 27.4 41.0



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: 16.41 min Scan# 2851

Delta R.T. -0.00 min

Lab File: BE089676.D

Acq: 24 Feb 2015 18:14

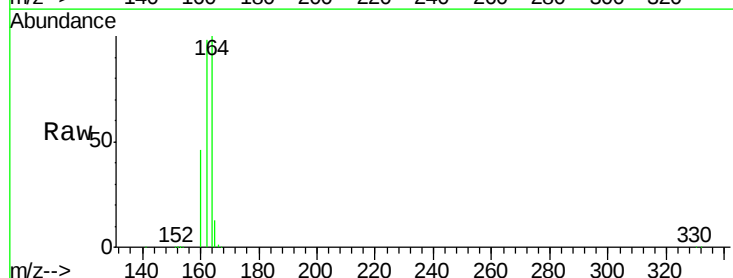
Tgt Ion:164 Resp: 100943

Ion Ratio Lower Upper

164 100

162 97.6 79.4 119.2

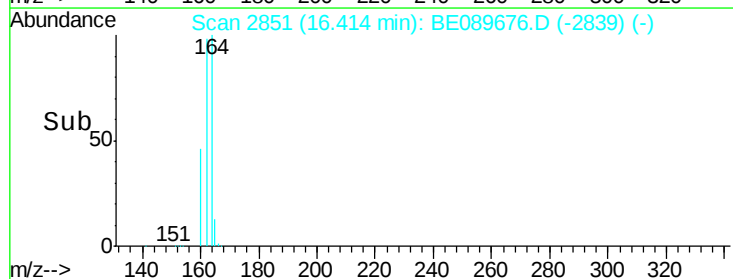
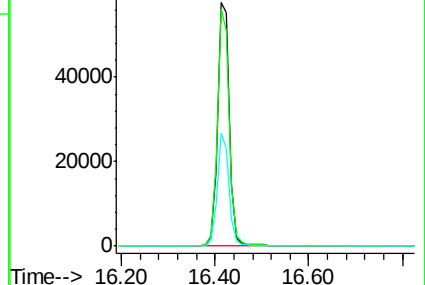
160 46.3 37.6 56.4

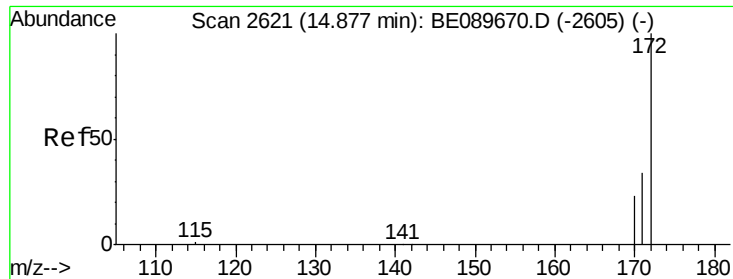


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 9.31 ng

RT: 14.88 min Scan# 2621

Delta R.T. 0.00 min

Lab File: BE089676.D

Acq: 24 Feb 2015 18:14

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MDL-02-S

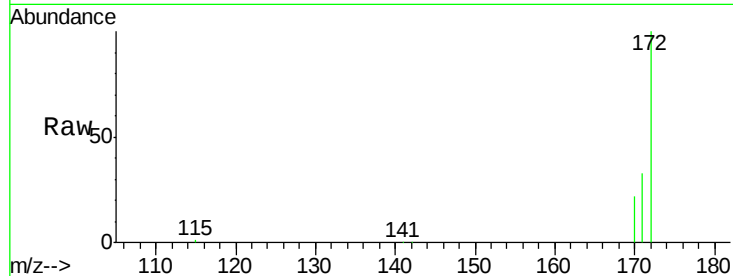
Tgt Ion:172 Resp: 208923

Ion Ratio Lower Upper

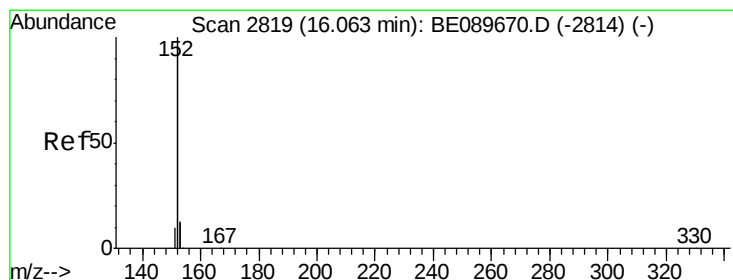
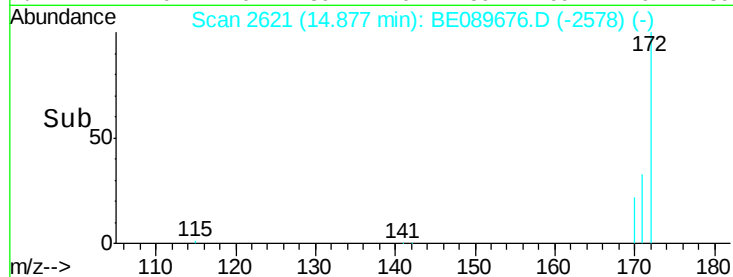
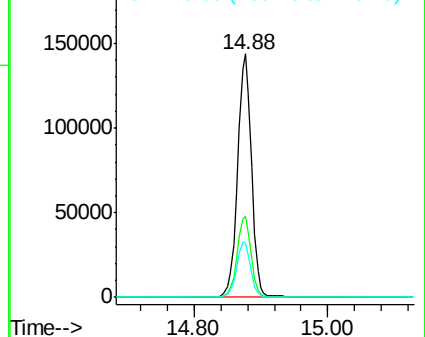
172 100

171 33.1 27.3 40.9

170 22.4 18.5 27.7



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: 0.13 ng

RT: 16.06 min Scan# 2819

Delta R.T. -0.00 min

Lab File: BE089676.D

Acq: 24 Feb 2015 18:14

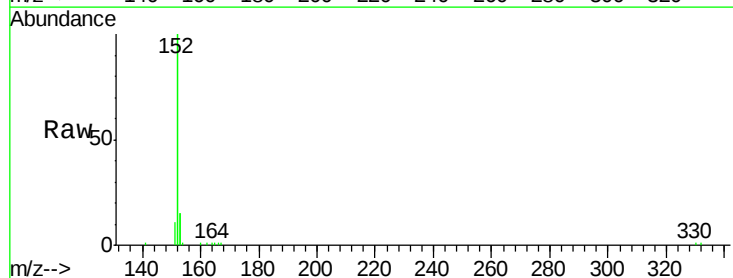
Tgt Ion:152 Resp: 18404

Ion Ratio Lower Upper

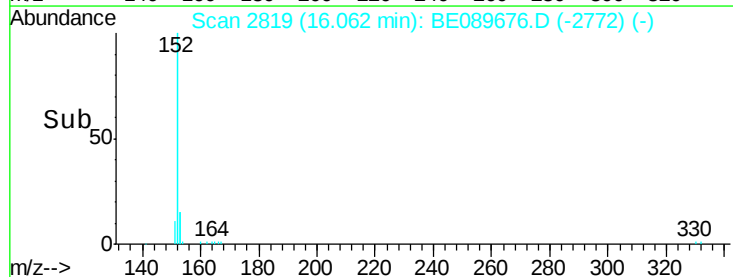
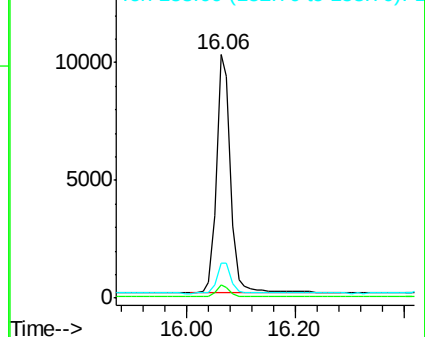
152 100

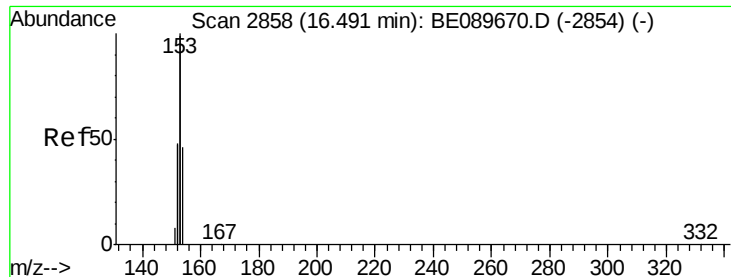
151 4.7 3.8 5.6

153 13.1 10.4 15.6



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: 0.15 ng

RT: 16.49 min Scan# 2858

Delta R.T. -0.00 min

Lab File: BE089676.D

Acq: 24 Feb 2015 18:14

Instrument :

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ClientSampleId :

MDL-02-S

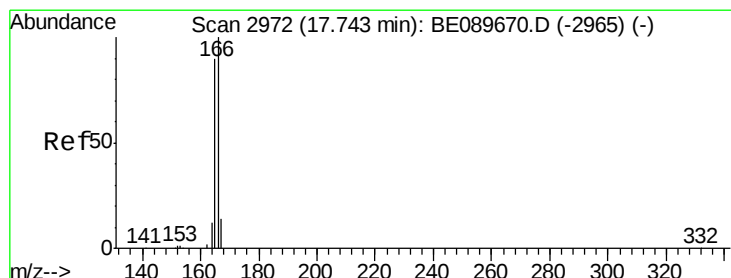
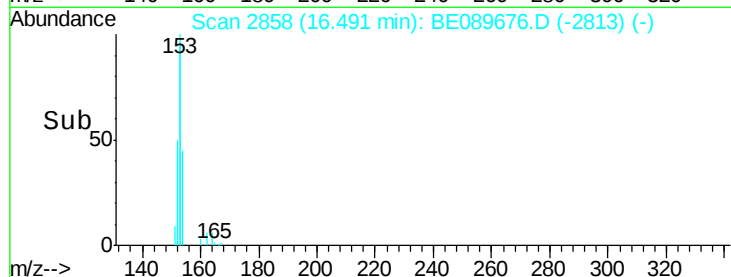
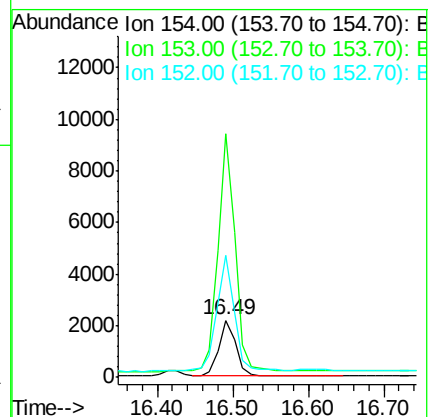
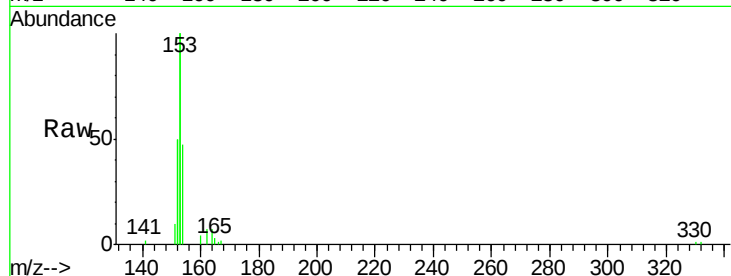
Tgt Ion:154 Resp: 3375

Ion Ratio Lower Upper

154 100

153 431.0 345.8 518.8

152 220.4 168.6 252.8



#12

Fluorene

Concen: 0.15 ng

RT: 17.74 min Scan# 2972

Delta R.T. -0.00 min

Lab File: BE089676.D

Acq: 24 Feb 2015 18:14

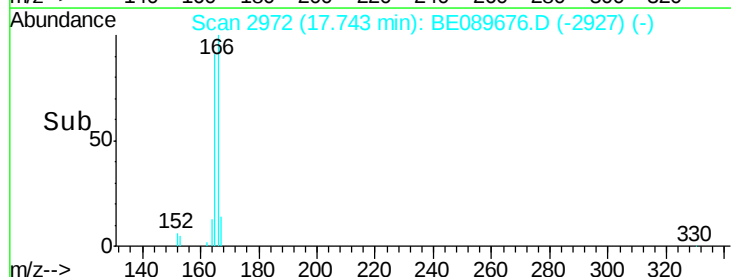
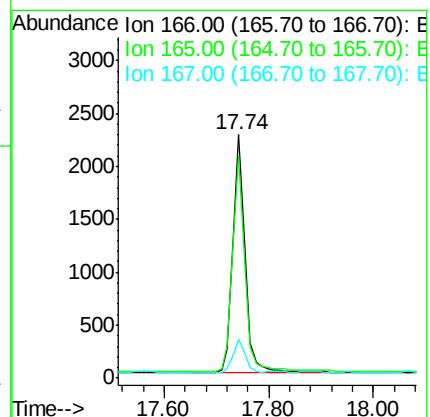
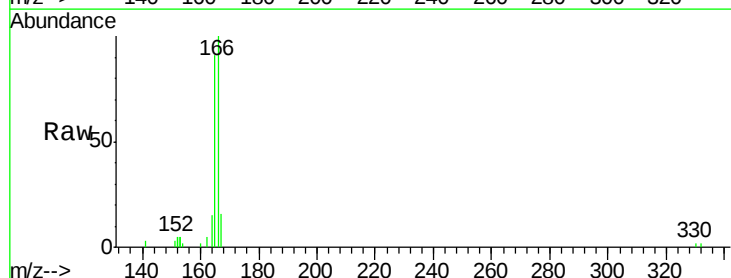
Tgt Ion:166 Resp: 3695

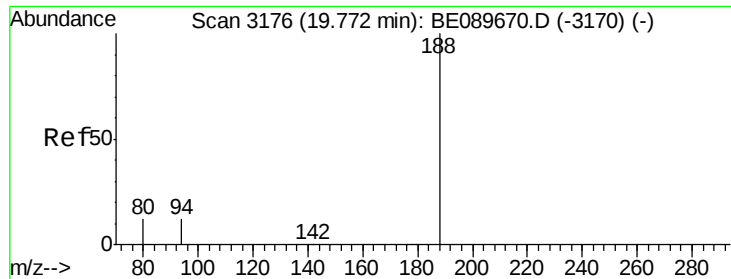
Ion Ratio Lower Upper

166 100

165 90.2 73.6 110.4

167 14.0 10.6 16.0

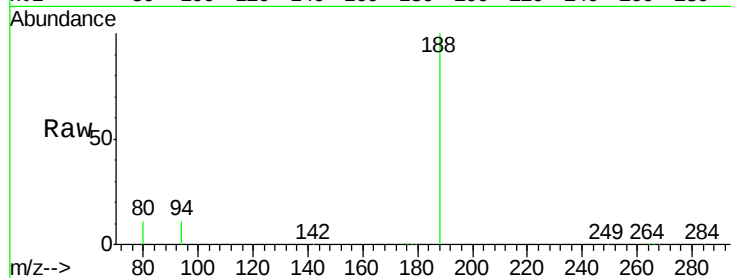




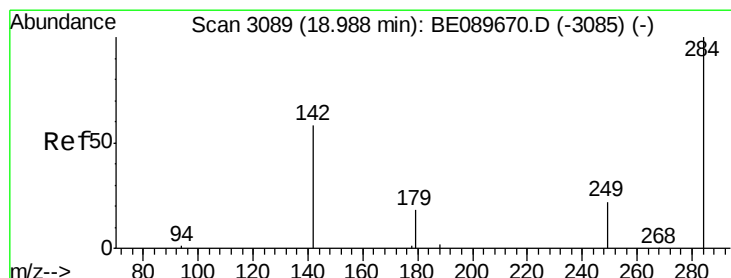
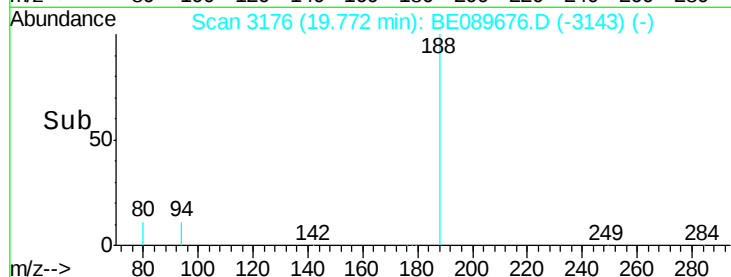
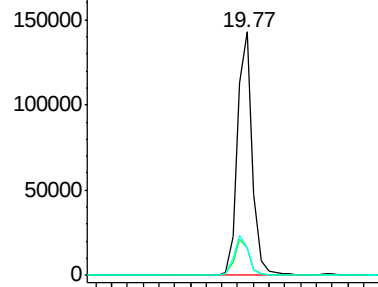
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3176
Delta R.T. -0.00 min
Lab File: BE089676.D
Acq: 24 Feb 2015 18:14

Instrument :
BNA_E
ClientSampleId :
MDL-02-S

Tgt Ion:188 Resp: 185474
Ion Ratio Lower Upper
188 100
94 11.4 9.4 14.2
80 11.4 9.5 14.3

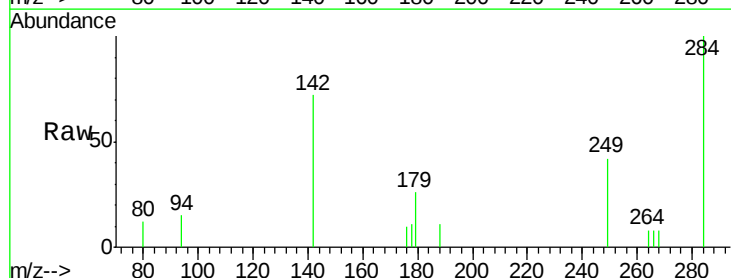


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

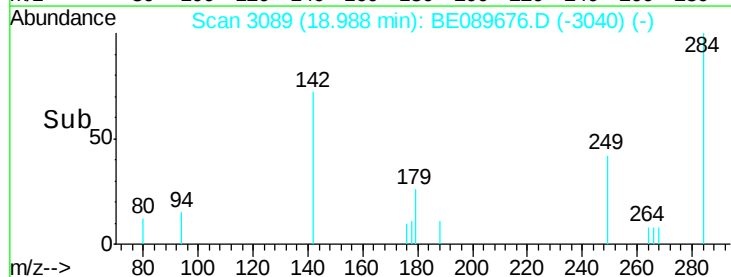
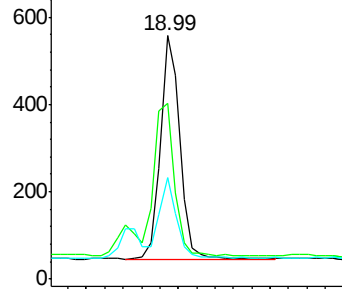


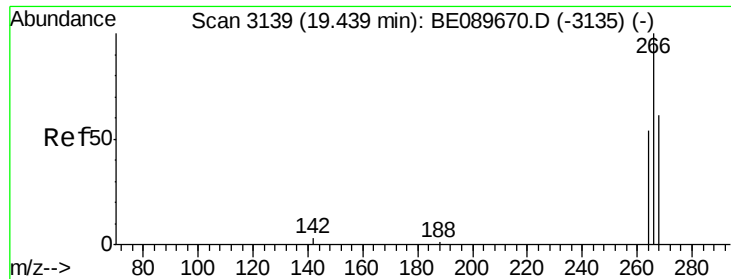
#14
Hexachlorobenzene
Concen: 0.16 ng
RT: 18.99 min Scan# 3089
Delta R.T. -0.00 min
Lab File: BE089676.D
Acq: 24 Feb 2015 18:14

Tgt Ion:284 Resp: 745
Ion Ratio Lower Upper
284 100
142 71.3 55.4 83.2
249 30.6 27.2 40.8



Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

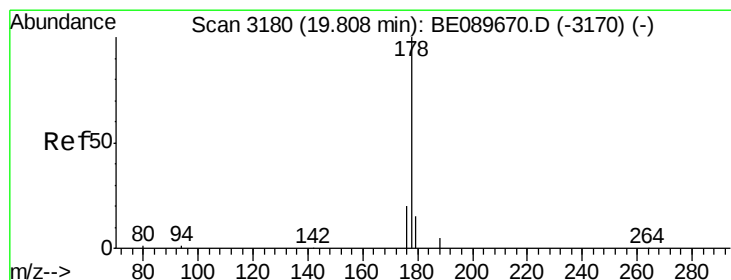
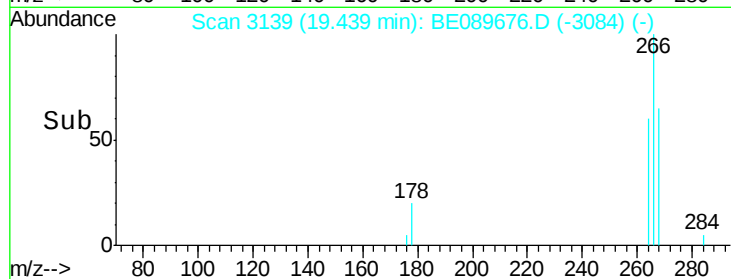
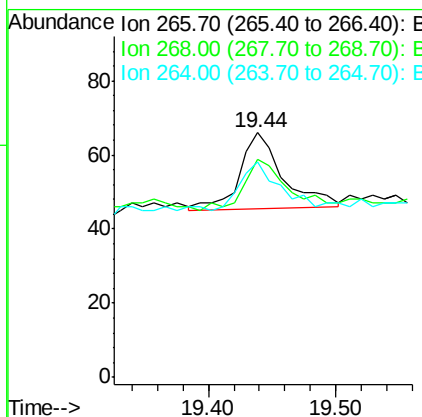
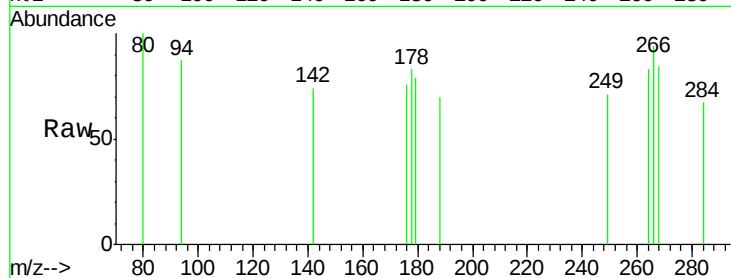




#15
 Pentachlorophenol
 Concen: 0.32 ng
 RT: 19.44 min Scan# 3139
 Delta R.T. -0.00 min
 Lab File: BE089676.D
 Acq: 24 Feb 2015 18:14

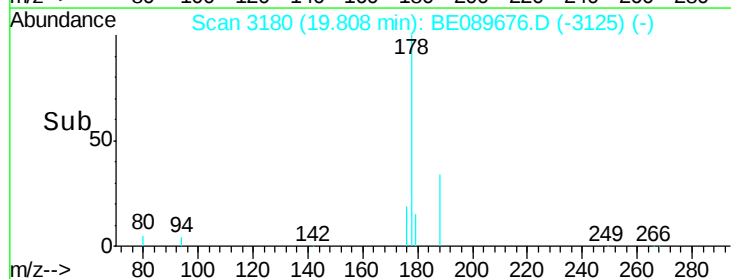
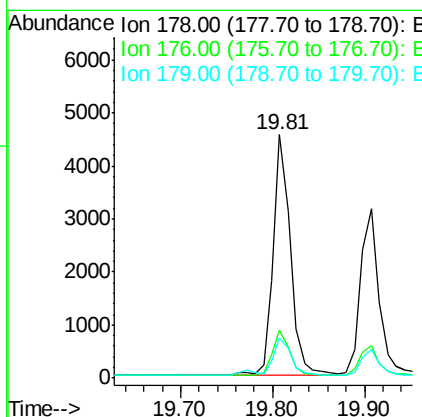
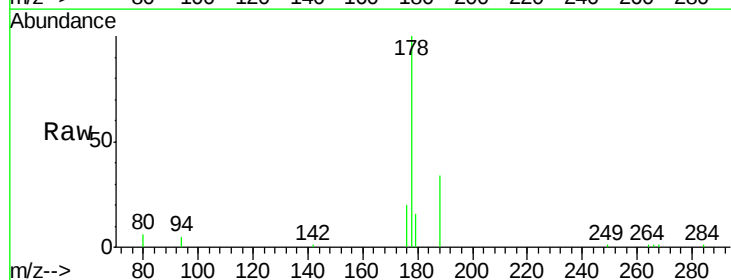
Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-S

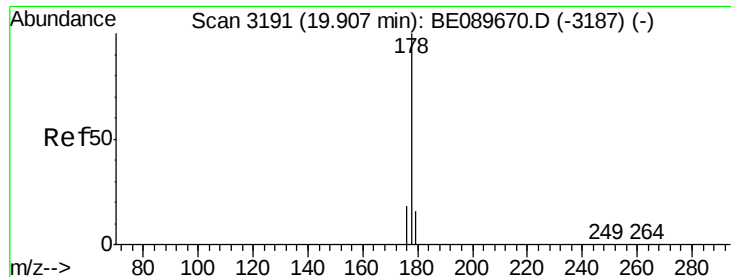
Tgt Ion: 266 Resp: 49
 Ion Ratio Lower Upper
 266 100
 268 89.4 56.3 84.5#
 264 87.9 51.8 77.8#



#16
 Phenanthrene
 Concen: 0.15 ng
 RT: 19.81 min Scan# 3180
 Delta R.T. -0.00 min
 Lab File: BE089676.D
 Acq: 24 Feb 2015 18:14

Tgt Ion: 178 Resp: 6014
 Ion Ratio Lower Upper
 178 100
 176 18.3 15.3 22.9
 179 17.9 12.5 18.7





#17

Anthracene

Concen: 0.13 ng

RT: 19.91 min Scan# 3191

Delta R.T. -0.00 min

Lab File: BE089676.D

Acq: 24 Feb 2015 18:14

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

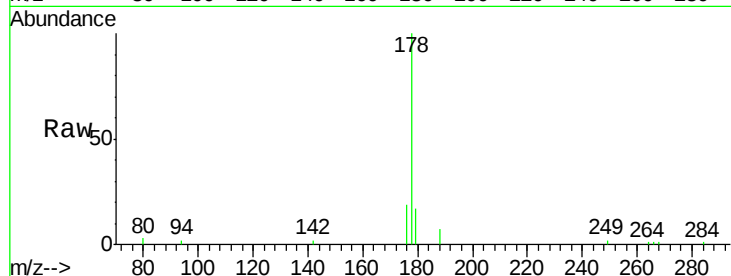
Tgt Ion:178 Resp: 4533

Ion Ratio Lower Upper

178 100

176 18.2 14.8 22.2

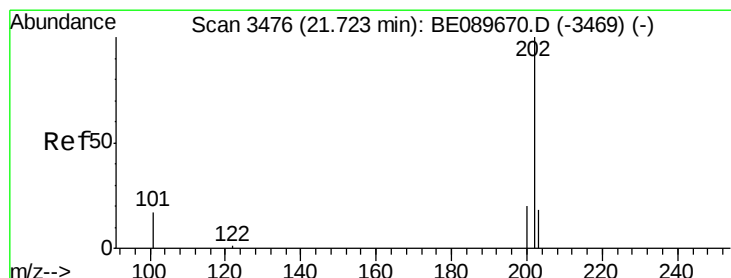
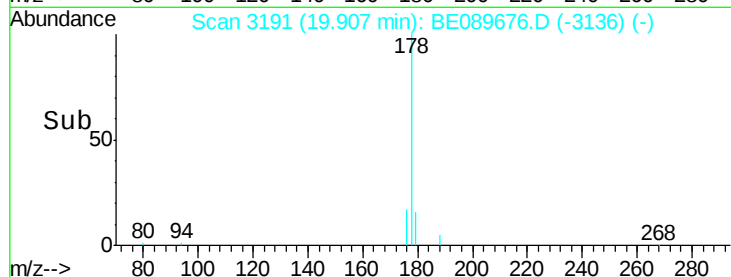
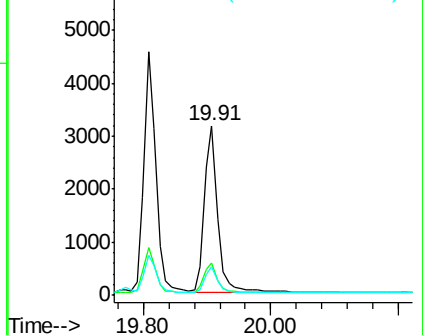
179 14.4 12.2 18.2



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



#18

Fluoranthene

Concen: 0.13 ng

RT: 21.72 min Scan# 3476

Delta R.T. -0.00 min

Lab File: BE089676.D

Acq: 24 Feb 2015 18:14

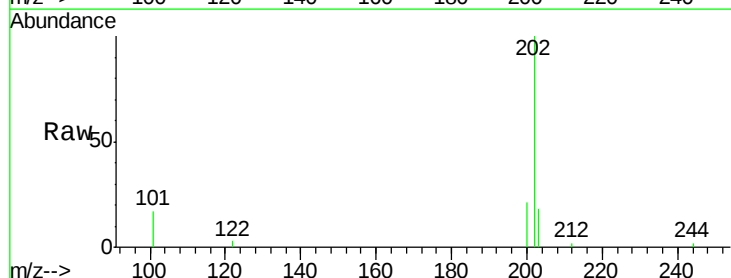
Tgt Ion:202 Resp: 4175

Ion Ratio Lower Upper

202 100

101 17.2 14.9 22.3

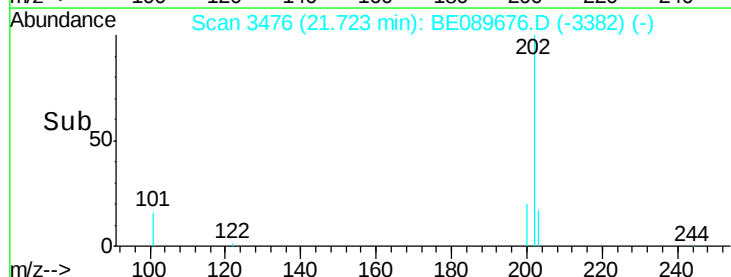
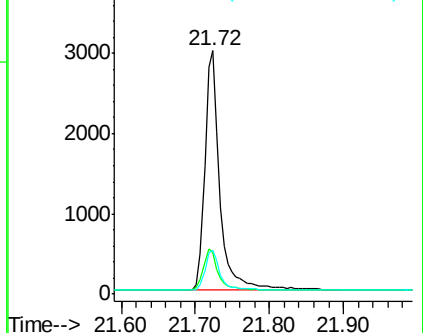
203 17.1 13.8 20.6

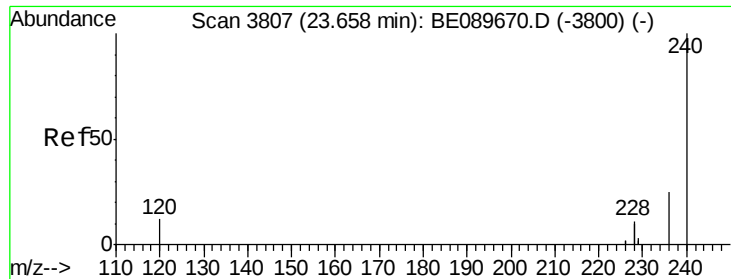


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3807

Delta R.T. 0.00 min

Lab File: BE089676.D

Acq: 24 Feb 2015 18:14

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

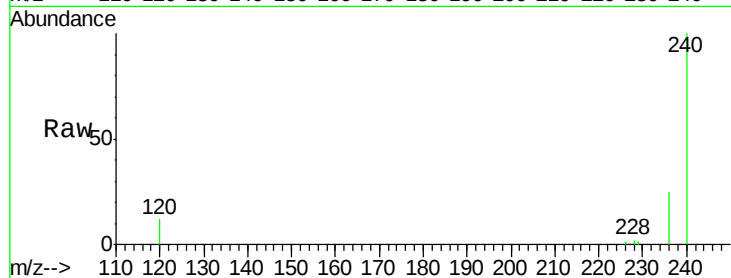
Tgt Ion:240 Resp: 140926

Ion Ratio Lower Upper

240 100

120 12.2 9.4 14.0

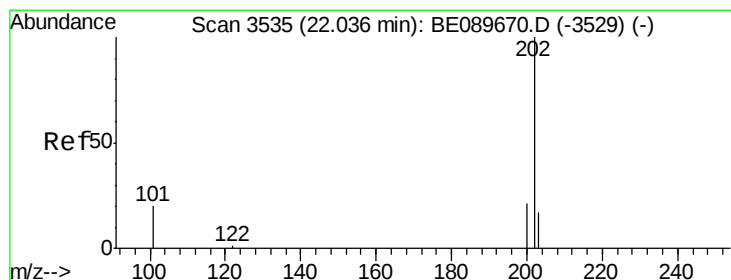
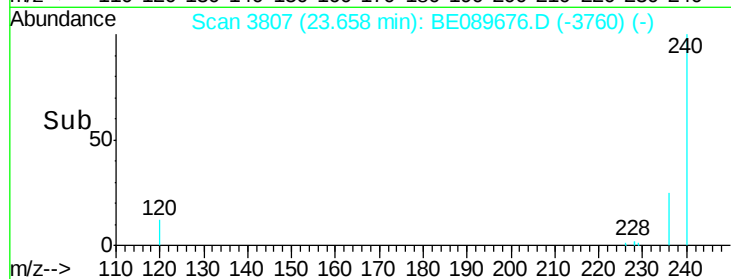
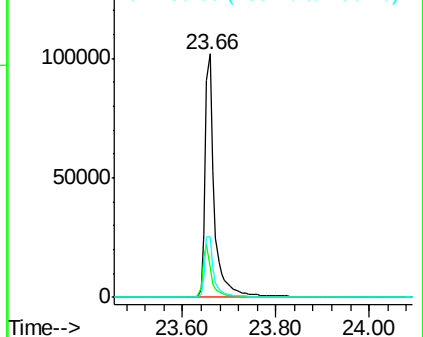
236 25.1 19.9 29.9



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: 0.13 ng

RT: 22.04 min Scan# 3535

Delta R.T. -0.00 min

Lab File: BE089676.D

Acq: 24 Feb 2015 18:14

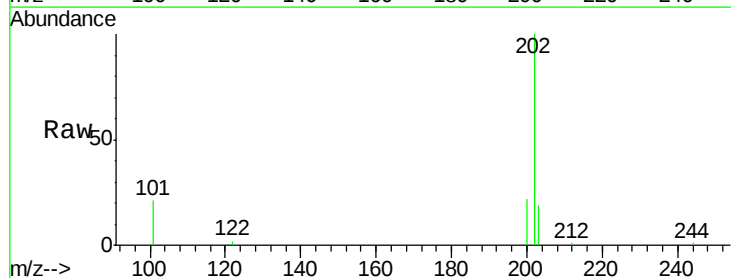
Tgt Ion:202 Resp: 4548

Ion Ratio Lower Upper

202 100

200 20.8 16.4 24.6

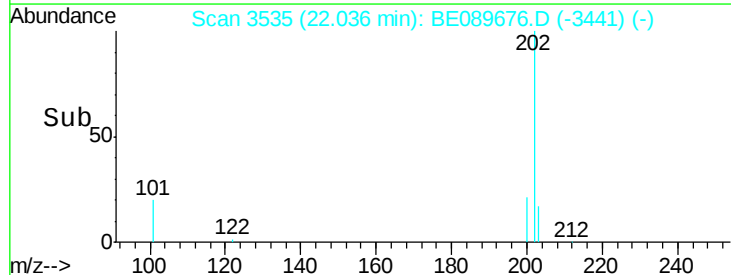
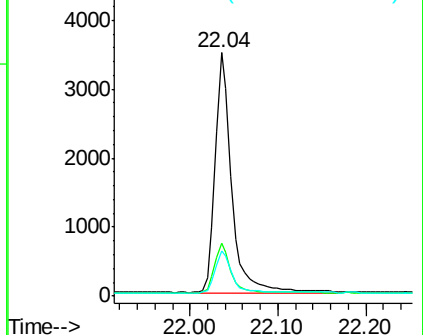
203 17.4 13.9 20.9

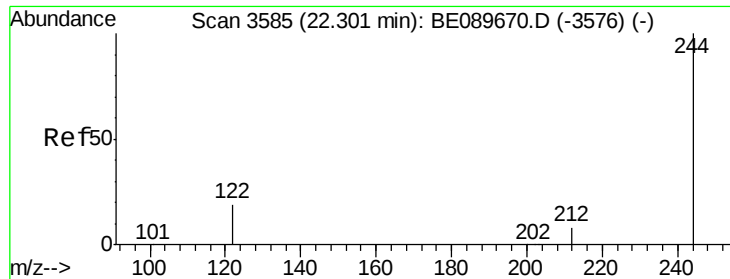


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 11.81 ng

RT: 22.30 min Scan# 3585

Delta R.T. -0.00 min

Lab File: BE089676.D

Acq: 24 Feb 2015 18:14

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

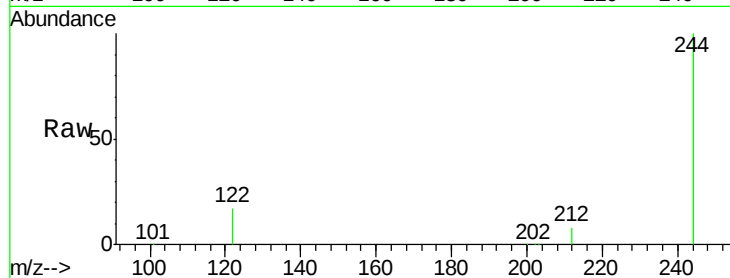
Tgt Ion:244 Resp: 195221

Ion Ratio Lower Upper

244 100

212 8.1 7.0 10.6

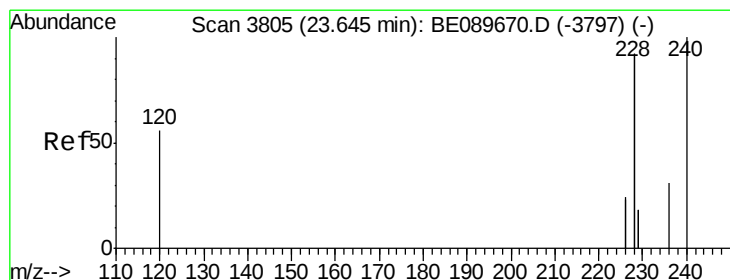
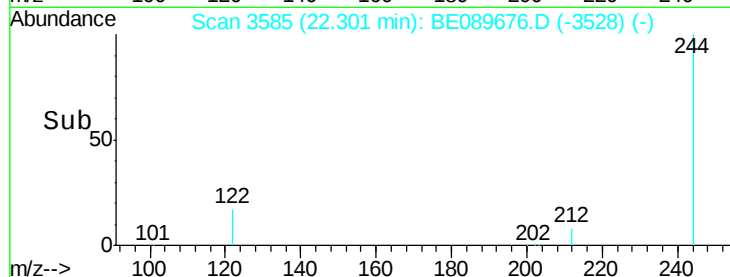
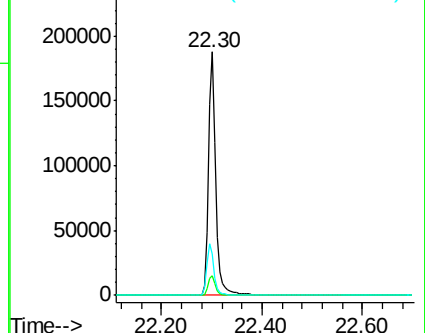
122 16.8 15.4 23.0



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: 0.14 ng

RT: 23.65 min Scan# 3805

Delta R.T. 0.00 min

Lab File: BE089676.D

Acq: 24 Feb 2015 18:14

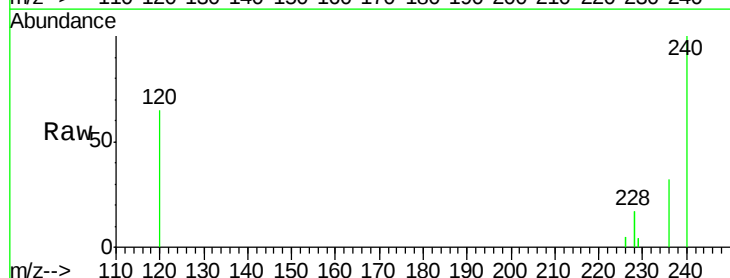
Tgt Ion:228 Resp: 12563

Ion Ratio Lower Upper

228 100

226 27.2 20.6 31.0

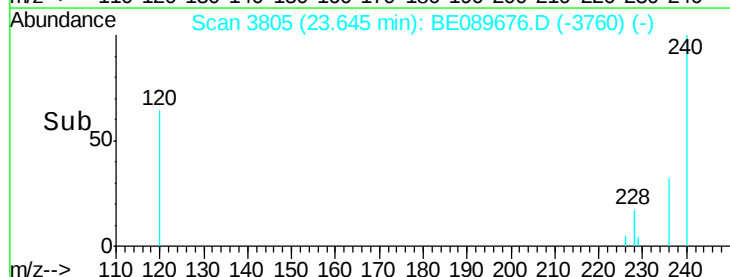
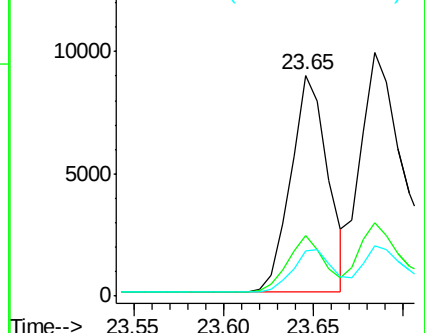
229 20.5 15.8 23.6

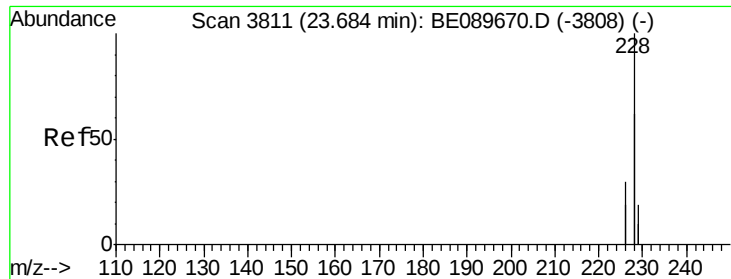


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.17 ng

RT: 23.68 min Scan# 3811

Delta R.T. 0.00 min

Lab File: BE089676.D

Acq: 24 Feb 2015 18:14

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

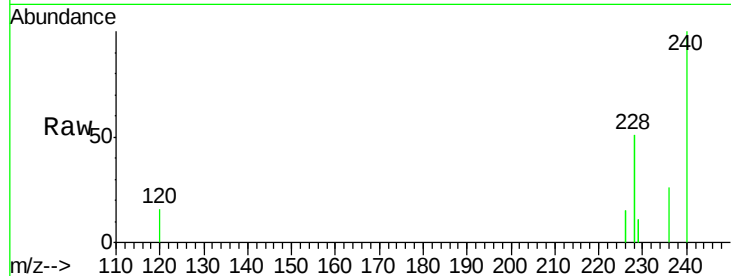
Tgt Ion:228 Resp: 21231

Ion Ratio Lower Upper

228 100

226 30.3 23.6 35.4

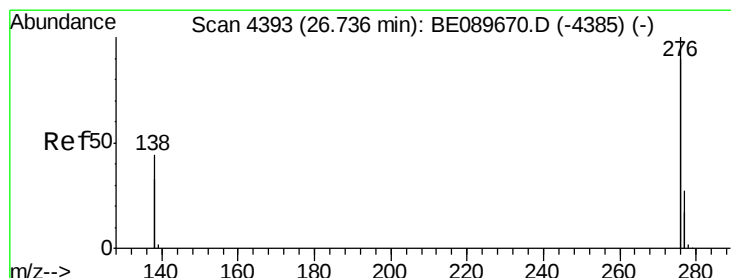
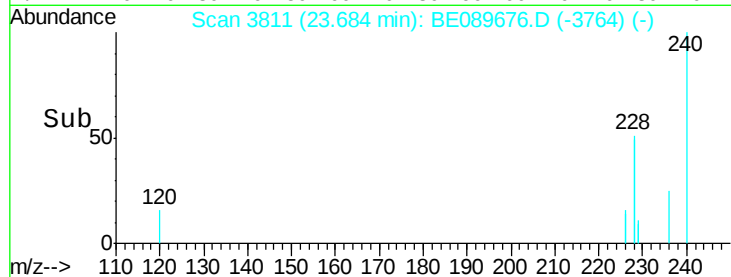
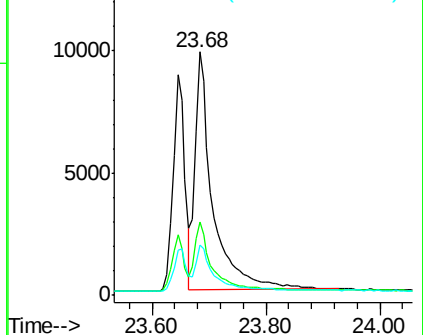
229 20.7 15.3 22.9



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: 0.30 ng

RT: 26.74 min Scan# 4393

Delta R.T. 0.00 min

Lab File: BE089676.D

Acq: 24 Feb 2015 18:14

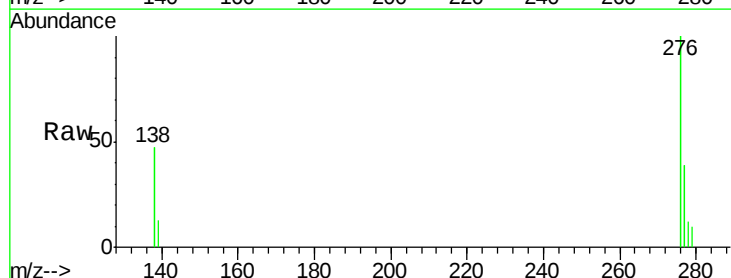
Tgt Ion:276 Resp: 3085

Ion Ratio Lower Upper

276 100

138 37.3 0.0 0.0#

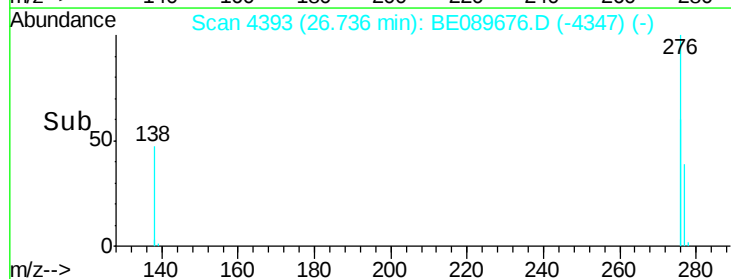
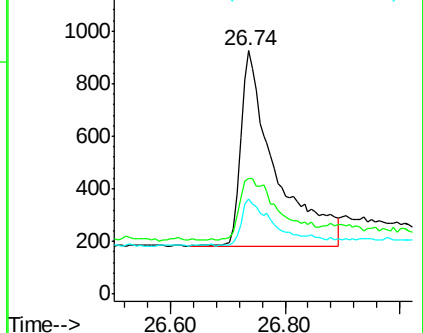
277 24.7 5.2 7.8#

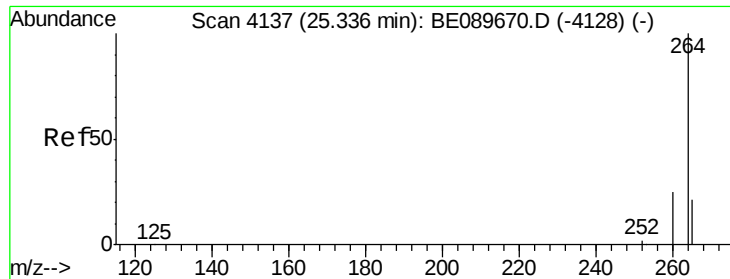


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

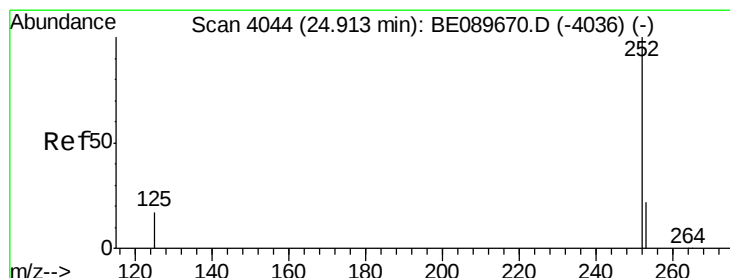
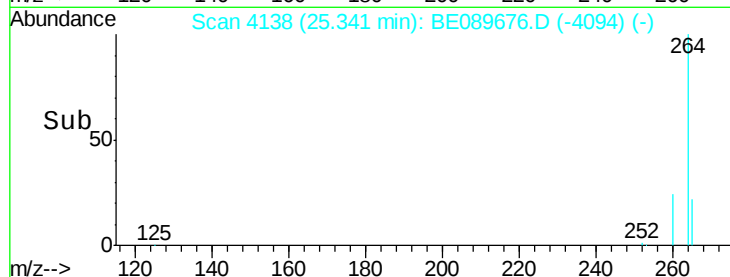
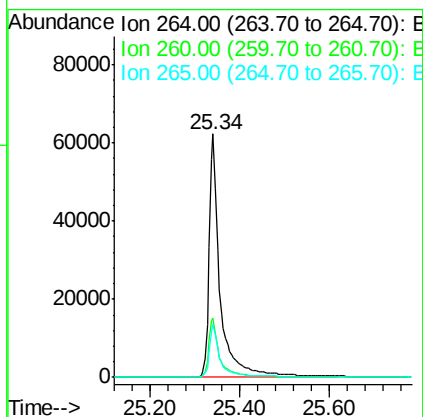
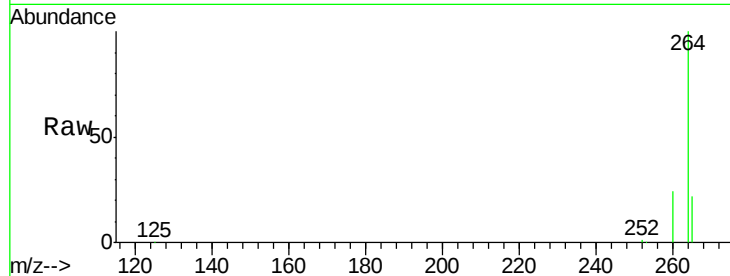




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4138
 Delta R.T. 0.00 min
 Lab File: BE089676.D
 Acq: 24 Feb 2015 18:14

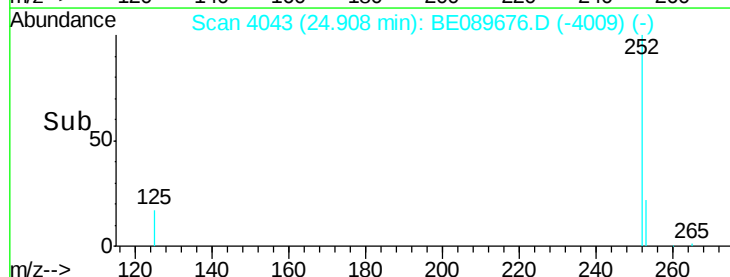
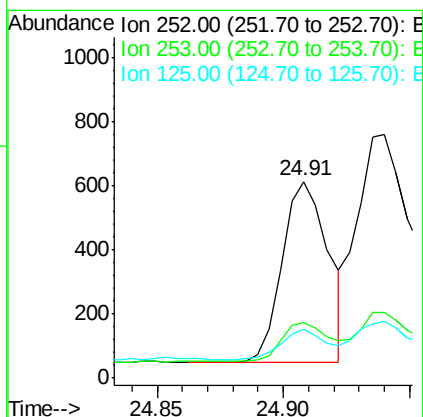
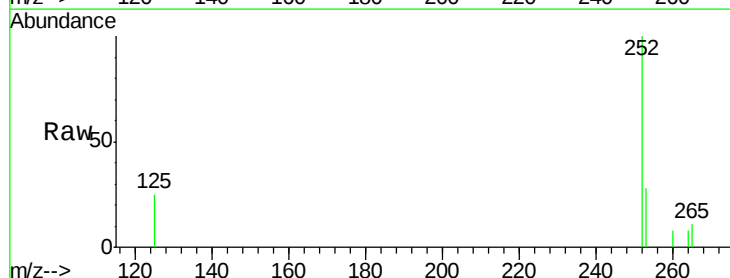
Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-S

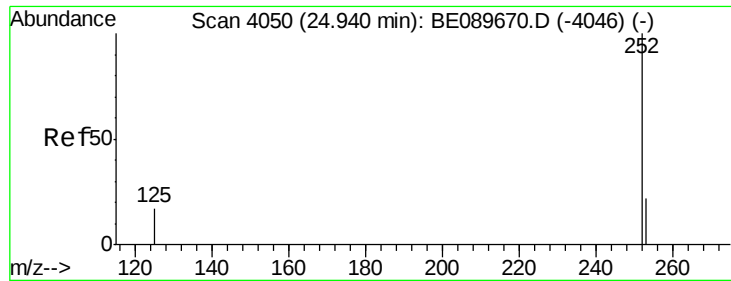
Tgt Ion: 264 Resp: 107588
 Ion Ratio Lower Upper
 264 100
 260 24.1 20.2 30.4
 265 21.6 17.0 25.4



#26
 Benzo(b)fluoranthene
 Concen: 0.36 ng
 RT: 24.91 min Scan# 4043
 Delta R.T. -0.00 min
 Lab File: BE089676.D
 Acq: 24 Feb 2015 18:14

Tgt Ion: 252 Resp: 719
 Ion Ratio Lower Upper
 252 100
 253 28.3 18.6 27.8#
 125 25.2 15.0 22.6#





#27

Benzo(k)fluoranthene

Concen: 0.20 ng

RT: 24.94 min Scan# 4050

Delta R.T. -0.00 min

Lab File: BE089676.D

Acq: 24 Feb 2015 18:14

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

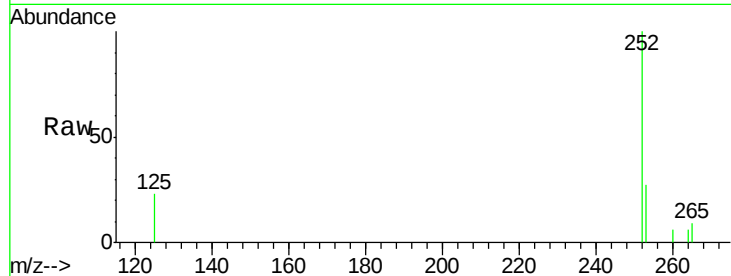
Tgt Ion:252 Resp: 1652

Ion Ratio Lower Upper

252 100

253 27.1 18.0 27.0#

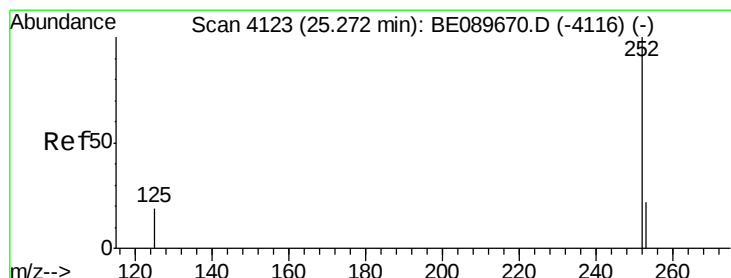
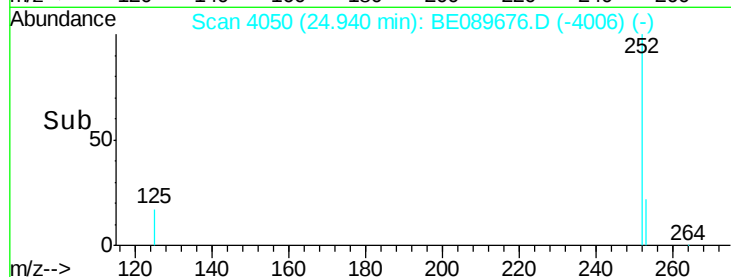
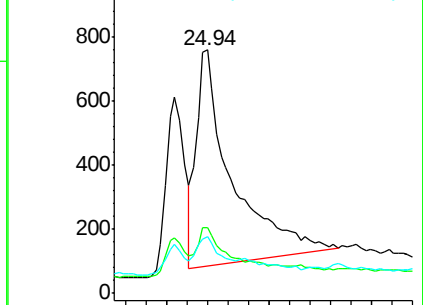
125 23.3 14.3 21.5#



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



#28

Benzo(a)pyrene

Concen: 0.13 ng

RT: 25.27 min Scan# 4122

Delta R.T. -0.00 min

Lab File: BE089676.D

Acq: 24 Feb 2015 18:14

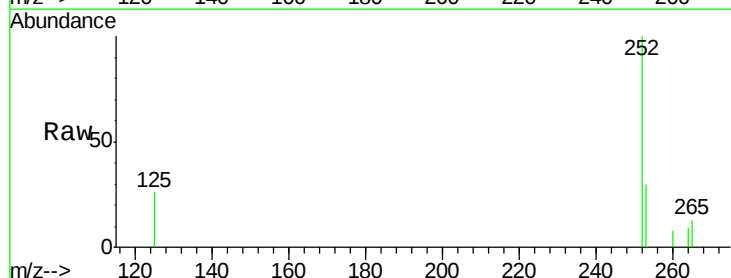
Tgt Ion:252 Resp: 825

Ion Ratio Lower Upper

252 100

253 29.9 18.8 28.2#

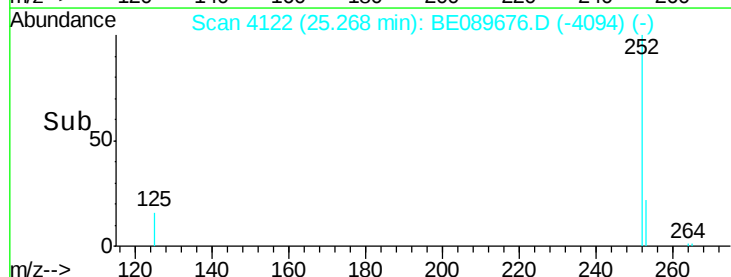
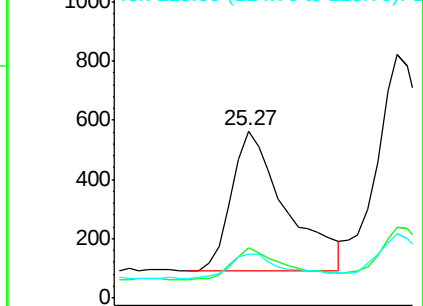
125 25.8 16.6 24.8#

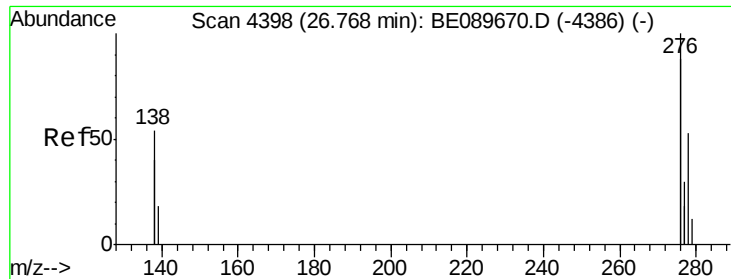


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.34 ng

RT: 26.77 min Scan# 4398

Delta R.T. 0.00 min

Lab File: BE089676.D

Acq: 24 Feb 2015 18:14

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

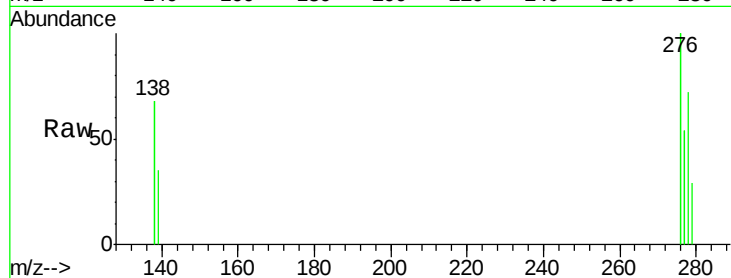
Tgt Ion: 278 Resp: 473

Ion Ratio Lower Upper

278 100

139 48.1 30.4 45.6#

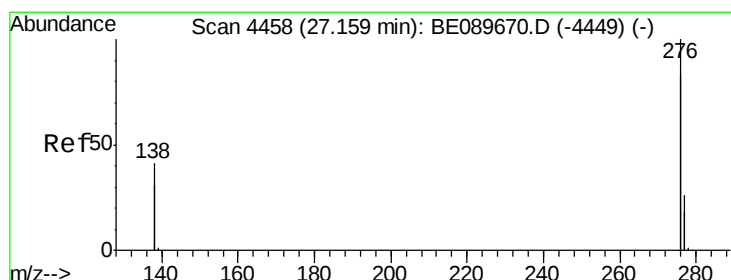
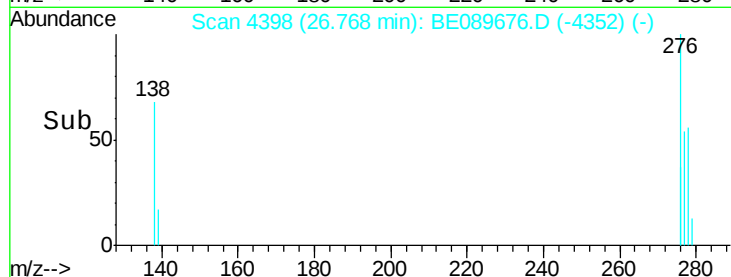
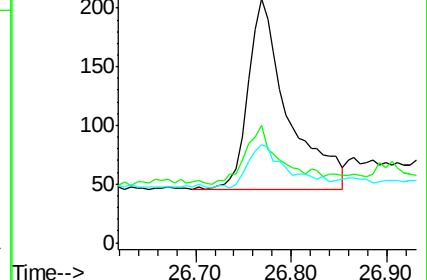
279 40.4 22.0 33.0#



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



#30

Benzo(g,h,i)perylene

Concen: 0.38 ng

RT: 27.15 min Scan# 4457

Delta R.T. -0.01 min

Lab File: BE089676.D

Acq: 24 Feb 2015 18:14

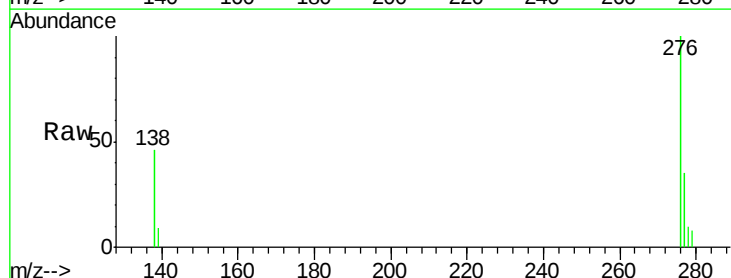
Tgt Ion: 276 Resp: 4037

Ion Ratio Lower Upper

276 100

277 34.9 21.0 31.6#

138 45.8 33.0 49.4



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

