

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021815\
 Data File : BE089635.D
 Acq On : 19 Feb 2015 13:19
 Operator : TP/IZ
 Sample : MDL-04-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-S

Quant Time: Feb 20 01:03:38 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	36168	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	143582	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	72013	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	143700	5.00	ng	0.00
19) Chrysene-d12	23.66	240	134899	5.00	ng	0.00
25) Perylene-d12	25.34	264	112790	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	57991	9.29	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	158803	8.23	ng	0.00
21) Terphenyl-d14	22.30	244	195686	10.09	ng	0.00

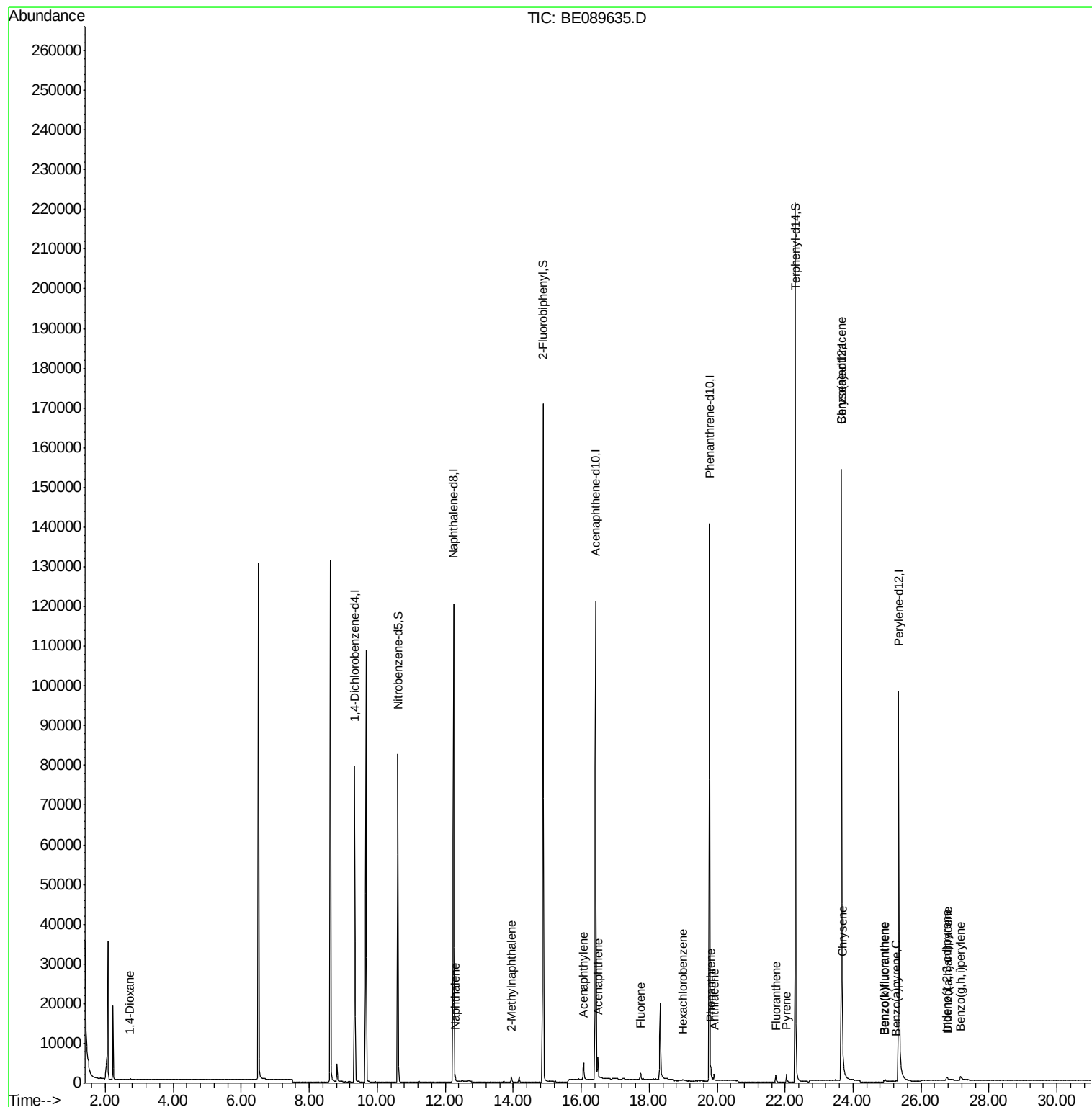
Target Compounds						Ovalue
2) 1,4-Dioxane	2.73	88	229	0.05	ng	# 83
6) Naphthalene	12.29	128	2020	0.06	ng	# 92
7) 2-Methylnaphthalene	13.95	142	1095	0.06	ng	96
10) Acenaphthylene	16.07	152	5954	0.05	ng	99
11) Acenaphthene	16.50	154	1146	0.06	ng	95
12) Fluorene	17.74	166	1214	0.06	ng	# 98
14) Hexachlorobenzene	19.00	284	405	0.07	ng	93
15) Pentachlorophenol	19.44	266	22	Below Cal		# 67
16) Phenanthrene	19.82	178	2204	0.06	ng	99
17) Anthracene	19.91	178	1553	0.05	ng	98
18) Fluoranthene	21.72	202	1595	0.05	ng	99
20) Pyrene	22.04	202	1707	0.05	ng	99
22) Benzo(a)anthracene	23.65	228	6418	0.05	ng	# 93
23) Chrysene	23.69	228	9564	0.07	ng	95
24) Indeno(1,2,3-cd)pyrene	26.75	276	2008	0.19	ng	95
26) Benzo(b)fluoranthene	24.91	252	438	0.29	ng	# 71
27) Benzo(k)fluoranthene	24.94	252	957m	0.03	ng	
28) Benzo(a)pyrene	25.27	252	460	0.26	ng	# 71
29) Dibenzo(a,h)anthracene	26.77	278	340	0.24	ng	# 47
30) Benzo(g,h,i)perylene	27.17	276	2746	0.16	ng	# 68

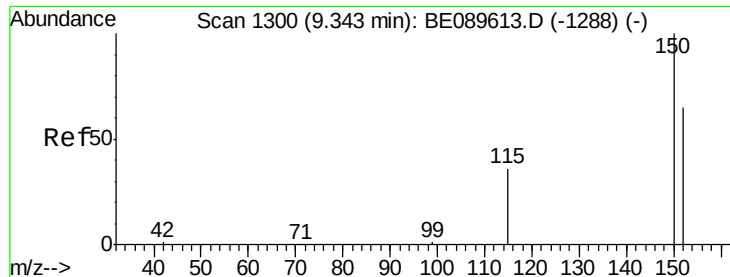
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089635.D

Acq: 19 Feb 2015 13:19

Instrument :

BNA_E

ClientSampled :

MDL-04-S

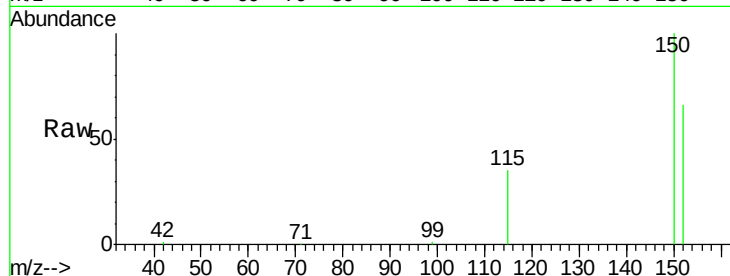
Tot Ion:152 Resp: 36168

Ion Ratio Lower Upper

152 100

150 150.9 122.4 183.6

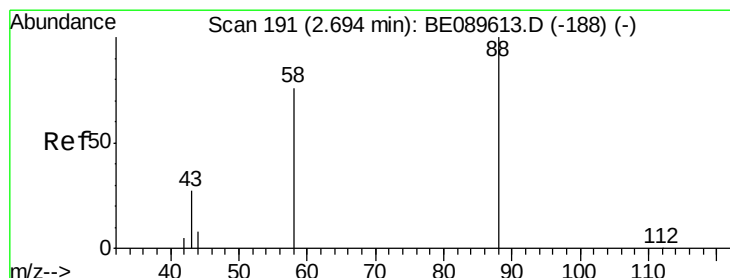
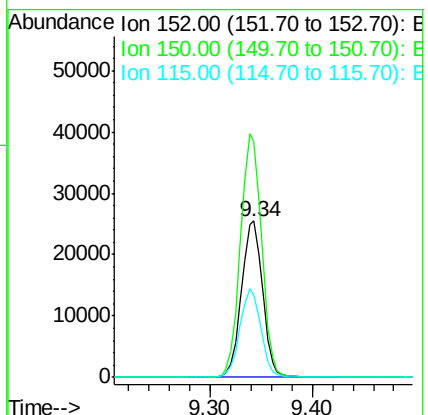
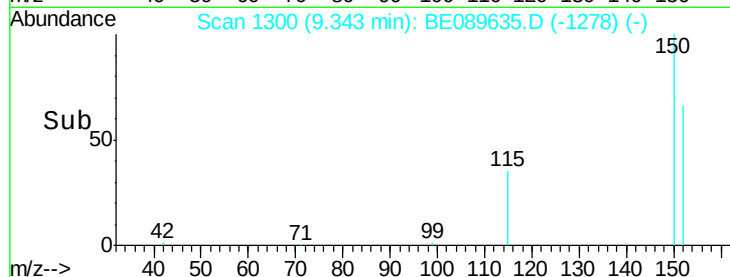
115 52.5 44.2 66.2



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: 0.05 ng

RT: 2.73 min Scan# 197

Delta R.T. 0.04 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

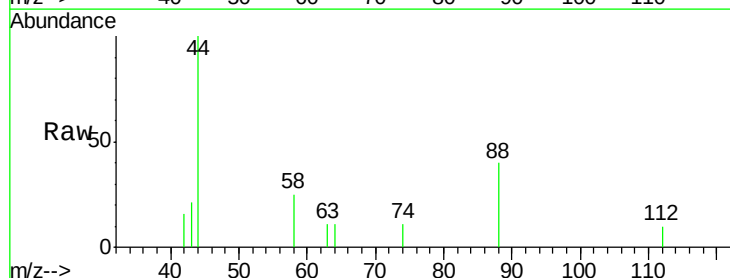
Tgt Ion: 88 Resp: 229

Ion Ratio Lower Upper

88 100

58 71.2 54.6 81.8

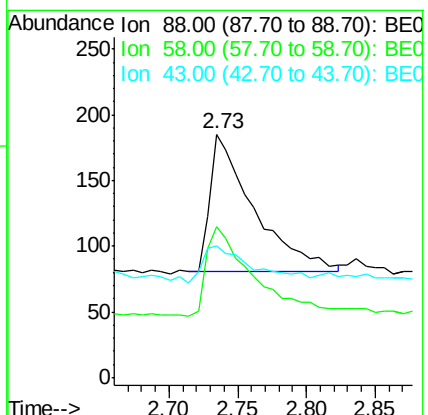
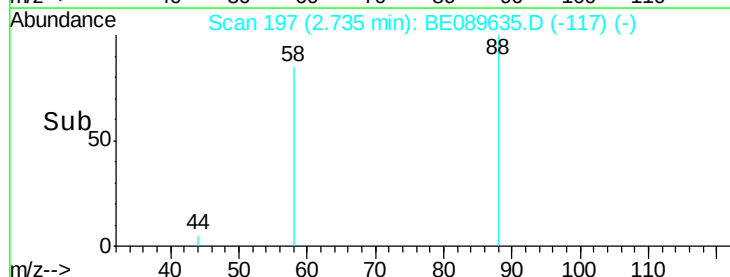
43 0.0 20.6 30.8#

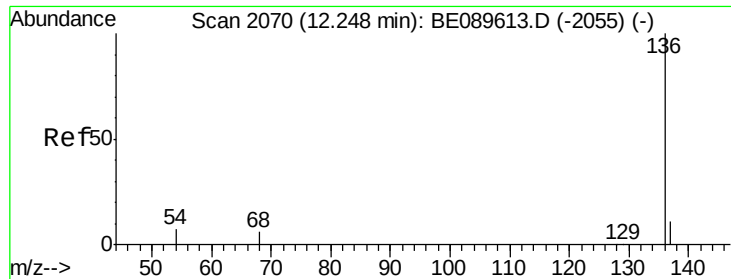


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

Naphthalene-d8

Concen: 5.00 ng

RT: 12.24 min Scan# 2070

Delta R.T. -0.01 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

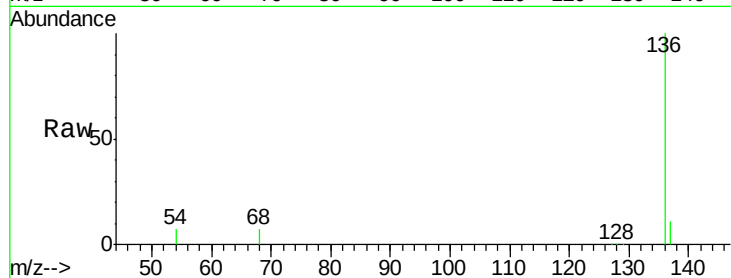
Tot Ion:136 Resp: 143582

Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

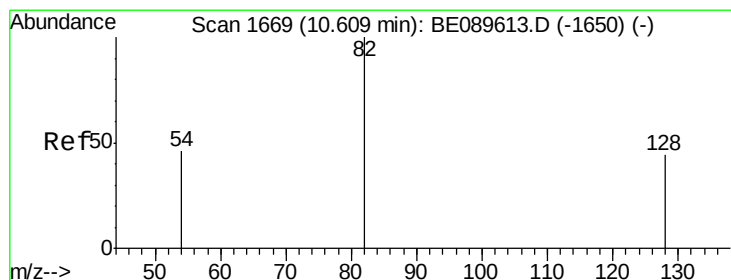
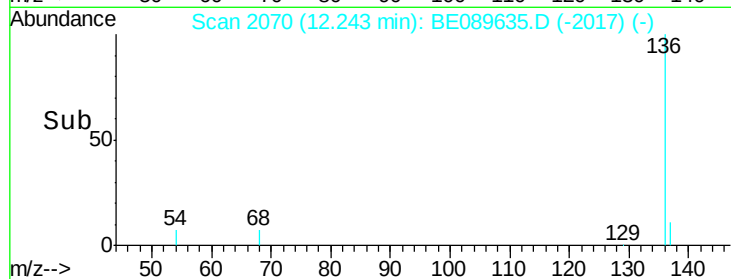
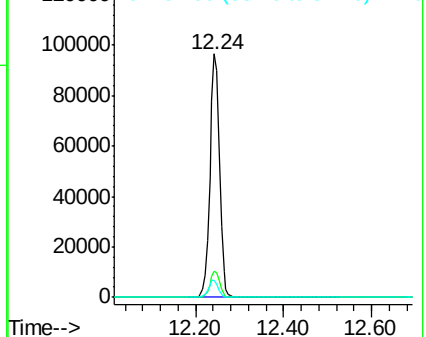
54 7.2 5.3 7.9



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



#5

Nitrobenzene-d5

Concen: 9.29 ng

RT: 10.61 min Scan# 1668

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

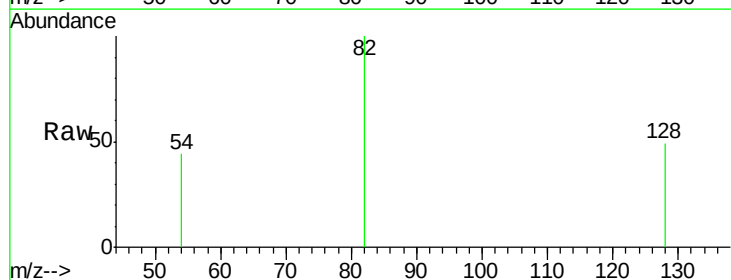
Tgt Ion: 82 Resp: 57991

Ion Ratio Lower Upper

82 100

128 48.5 35.5 53.3

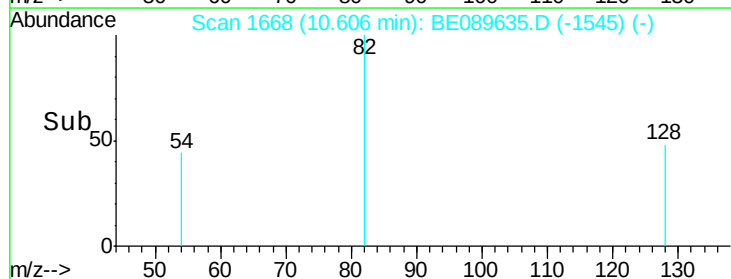
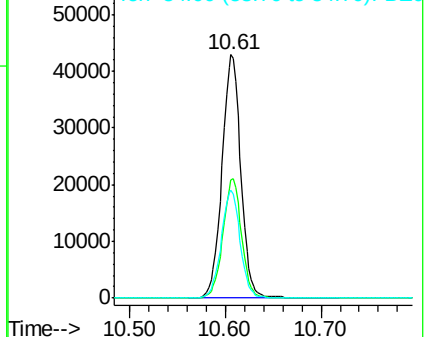
54 44.2 37.5 56.3

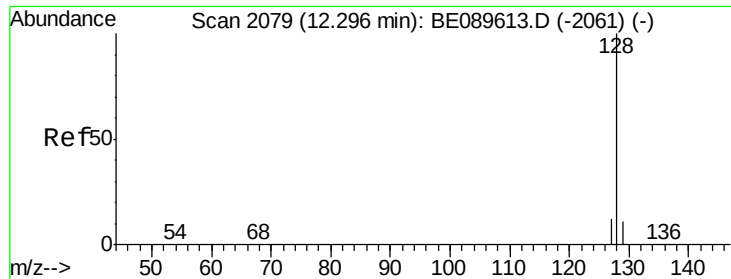


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#6

Naphthalene

Concen: 0.06 ng

RT: 12.29 min Scan# 2079

Delta R.T. -0.01 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

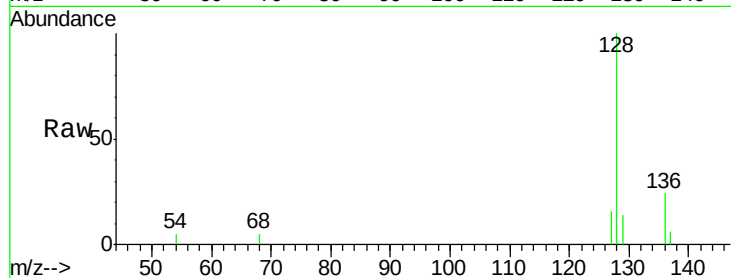
Tot Ion:128 Resp: 2020

Ion Ratio Lower Upper

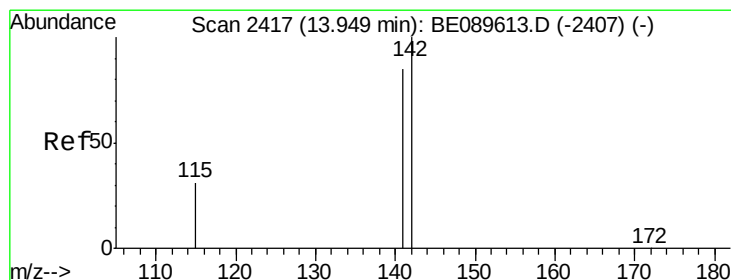
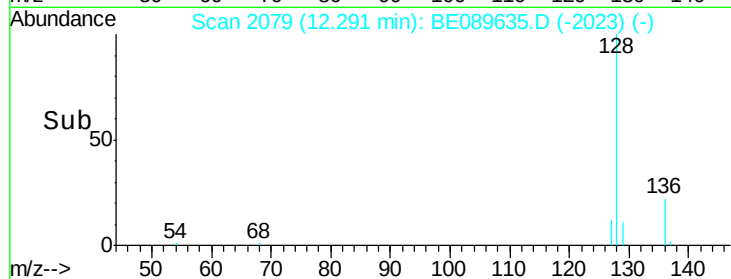
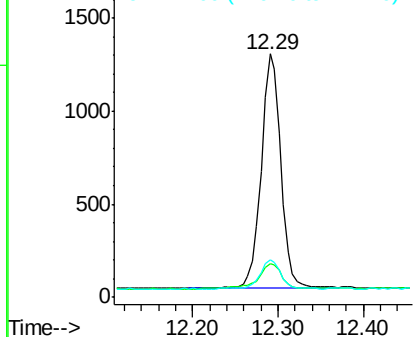
128 100

129 14.0 8.9 13.3#

127 15.5 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# 2419

Delta R.T. 0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

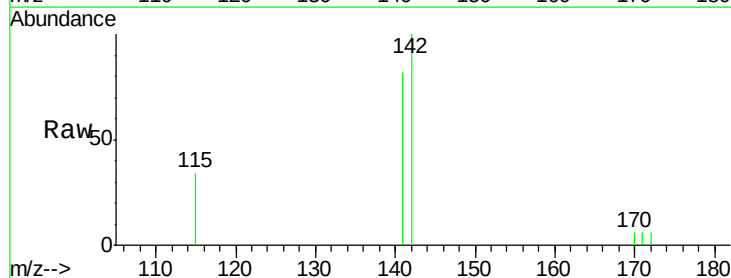
Tgt Ion:142 Resp: 1095

Ion Ratio Lower Upper

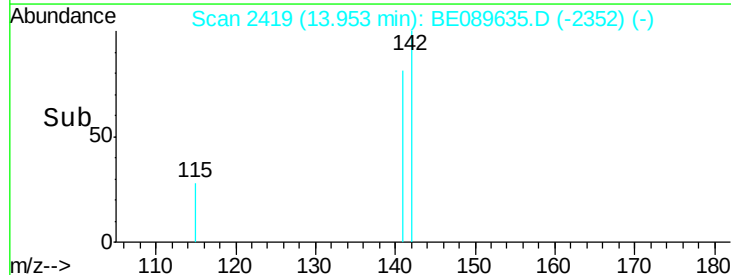
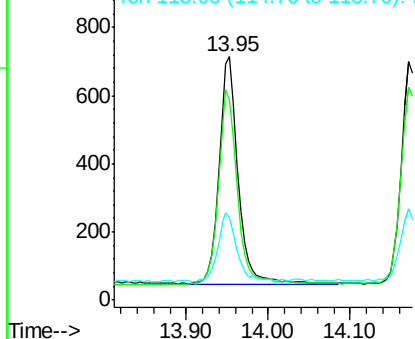
142 100

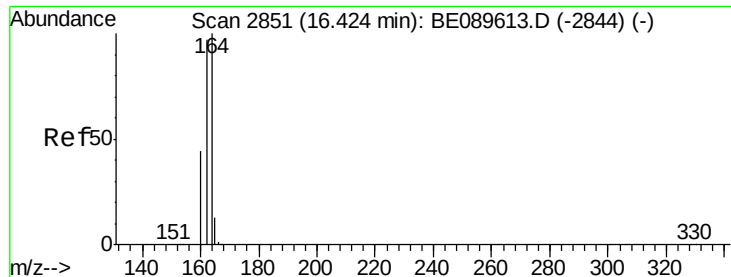
141 82.4 68.3 102.5

115 33.9 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: 16.42 min Scan# 2853

Delta R.T. 0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

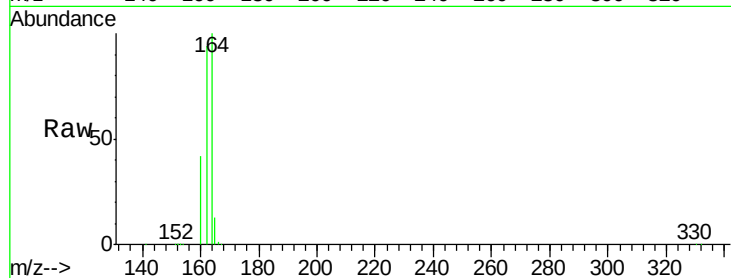
Tot Ion:164 Resp: 72013

Ion Ratio Lower Upper

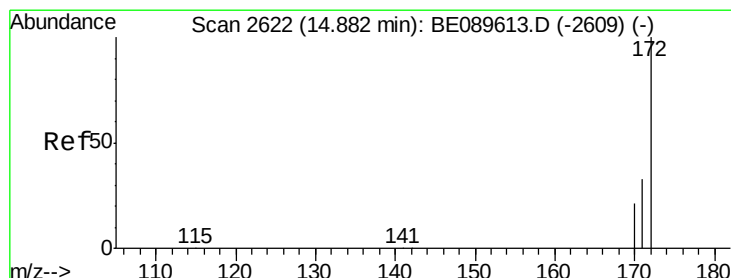
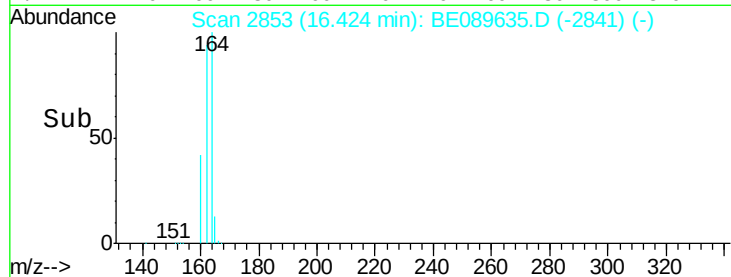
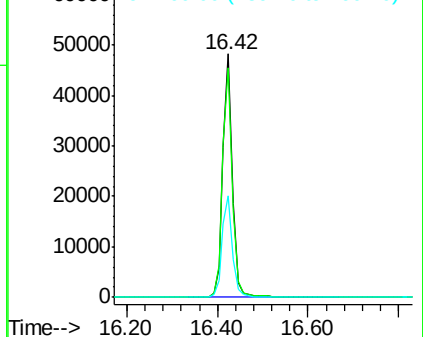
164 100

162 94.1 77.5 116.3

160 41.7 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: 8.23 ng

RT: 14.88 min Scan# 2622

Delta R.T. -0.01 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

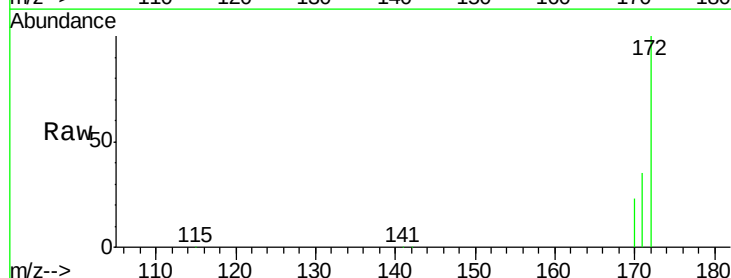
Tgt Ion:172 Resp: 158803

Ion Ratio Lower Upper

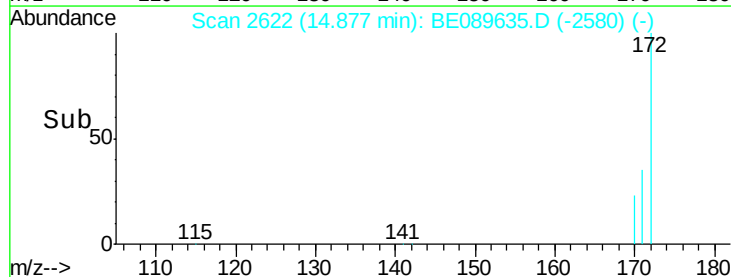
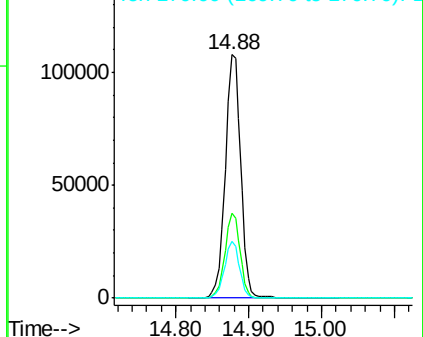
172 100

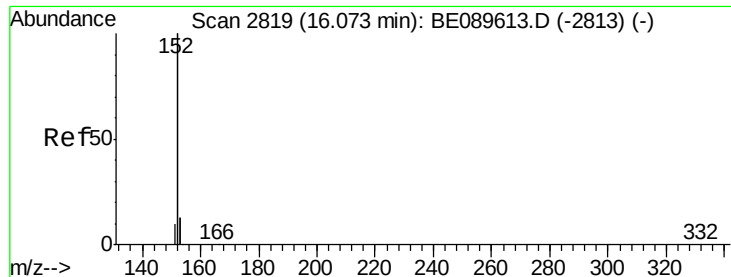
171 34.8 26.9 40.3

170 23.2 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# 2821

Delta R.T. 0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

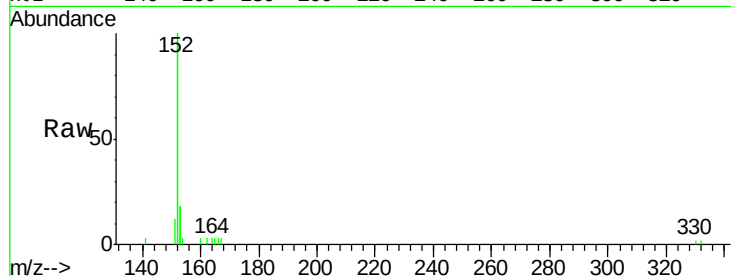
Tot Ion:152 Resp: 5954

Ion Ratio Lower Upper

152 100

151 5.0 3.9 5.9

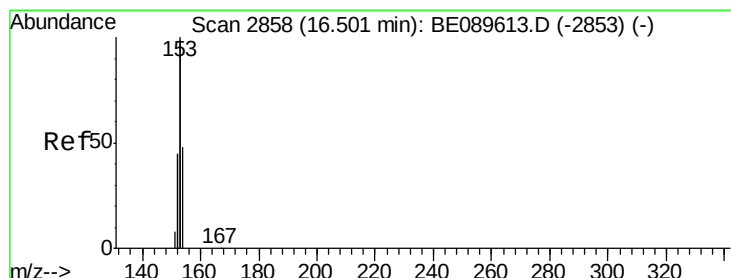
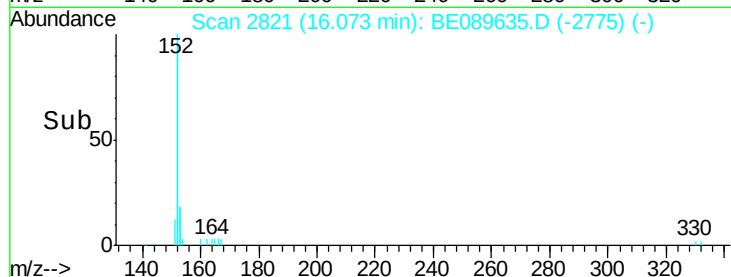
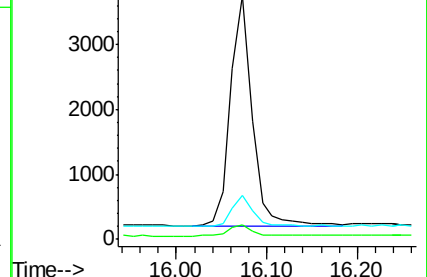
153 13.4 10.5 15.7



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: 16.50 min Scan# 2860

Delta R.T. 0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

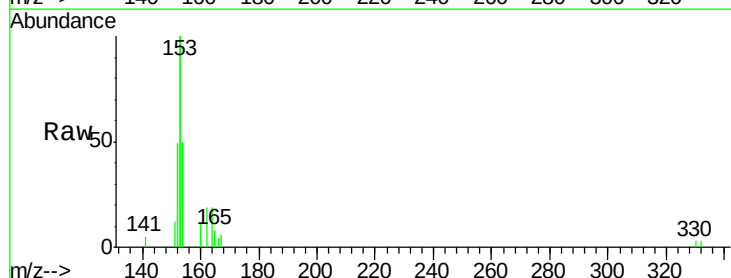
Tgt Ion:154 Resp: 1146

Ion Ratio Lower Upper

154 100

153 438.5 348.9 523.3

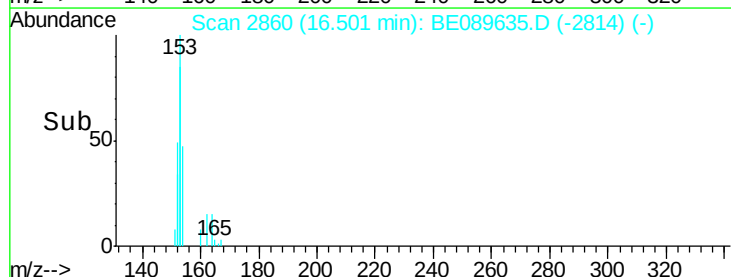
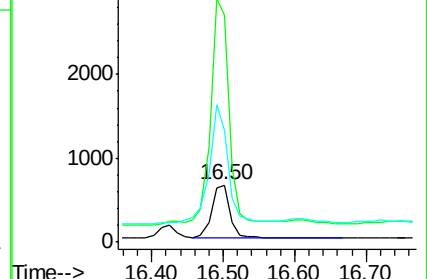
152 231.3 166.6 249.8

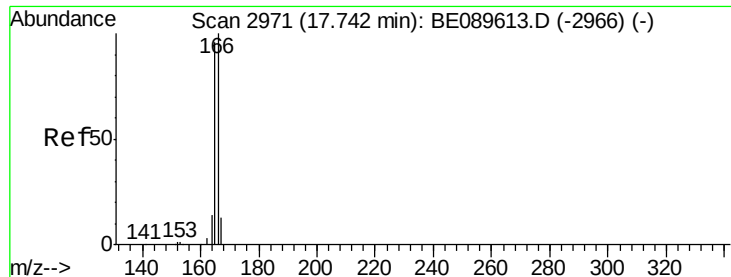


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#12

Fluorene

Concen: 0.06 ng

RT: 17.74 min Scan# 2973

Delta R.T. 0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

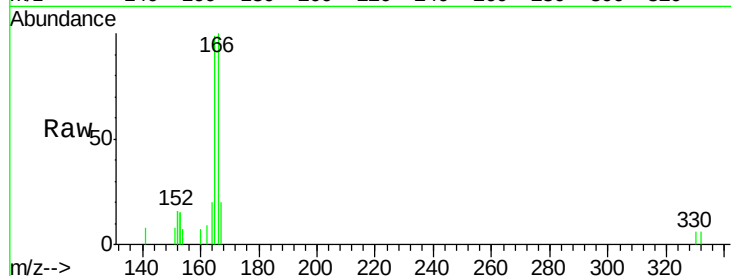
Tot Ion:166 Resp: 1214

Ion Ratio Lower Upper

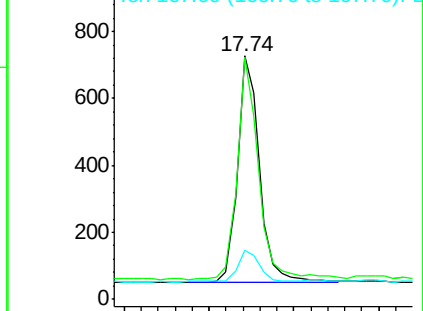
166 100

165 94.7 74.7 112.1

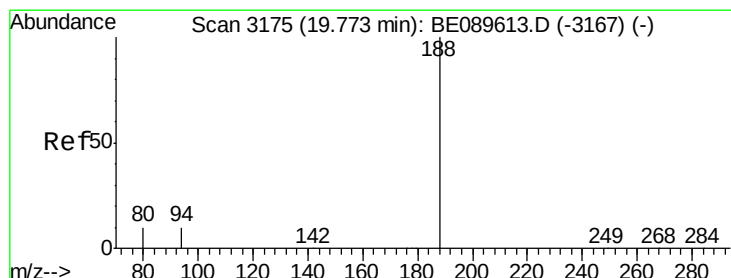
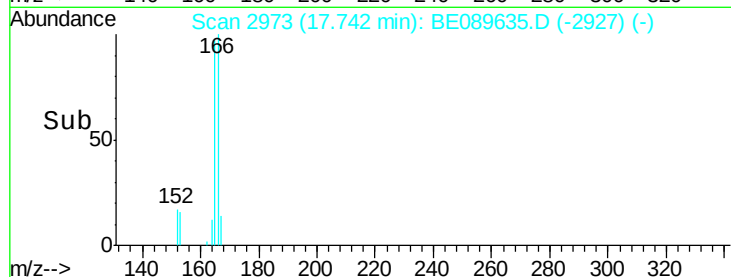
167 16.1 10.5 15.7#



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



Time--> 17.60 17.70 17.80 17.90



#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.77 min Scan# 3177

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

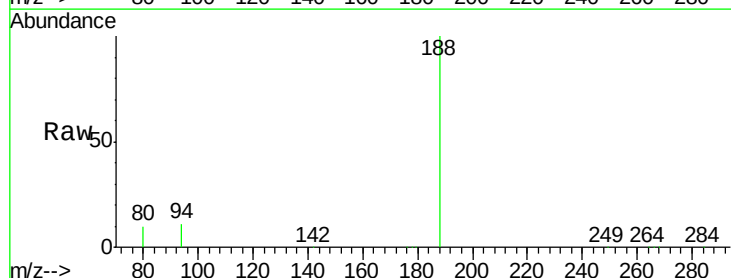
Tgt Ion:188 Resp: 143700

Ion Ratio Lower Upper

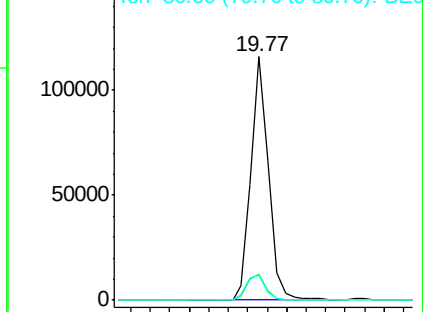
188 100

94 10.5 8.2 12.4

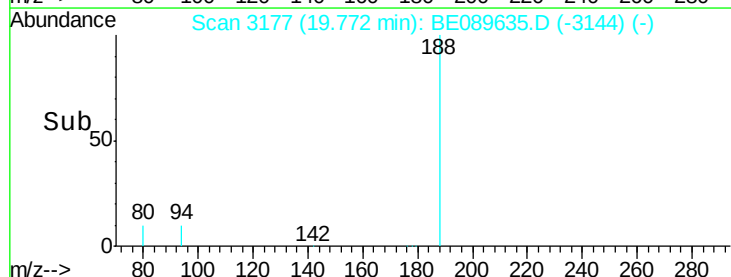
80 10.3 8.1 12.1

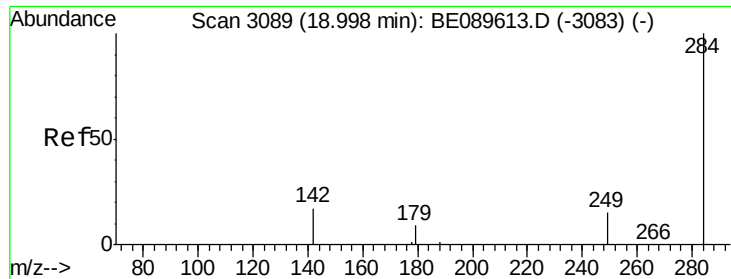


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0



Time--> 19.70 19.80 19.90

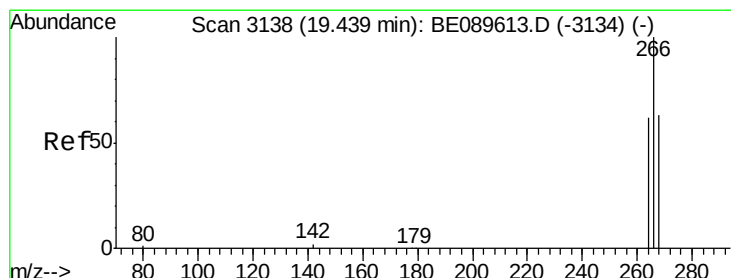
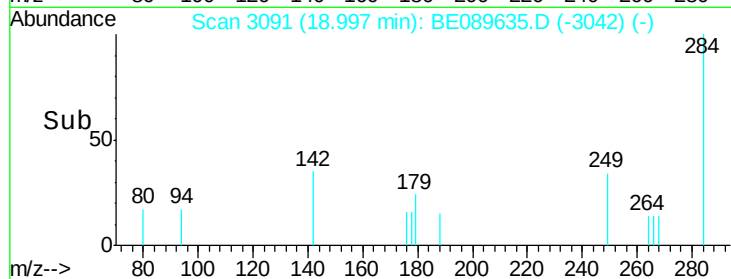
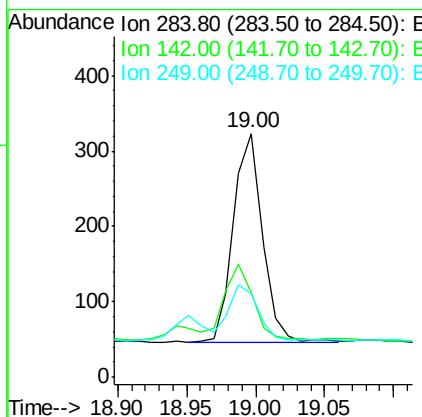
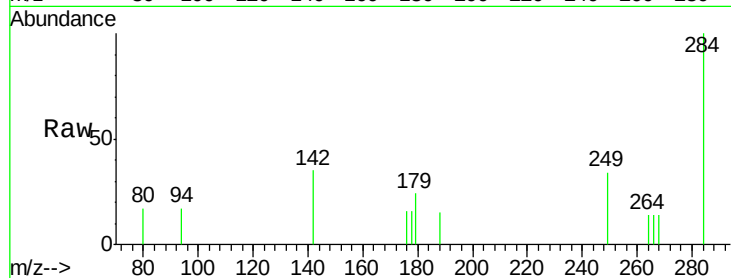




#14
Hexachlorobenzene
Concen: 0.07 ng
RT: 19.00 min Scan# 3091
Delta R.T. -0.00 min
Lab File: BE089635.D
Acq: 19 Feb 2015 13:19

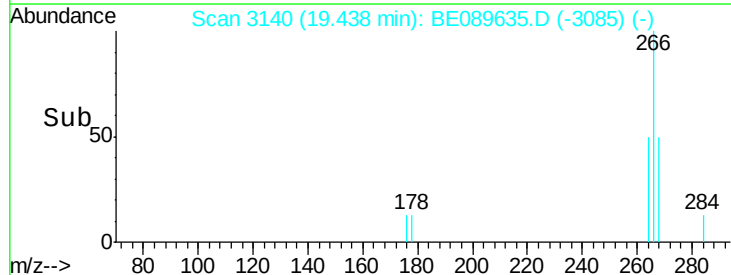
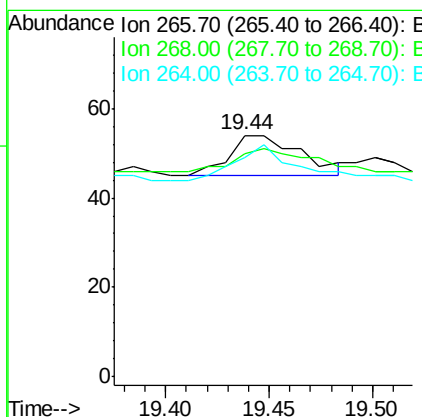
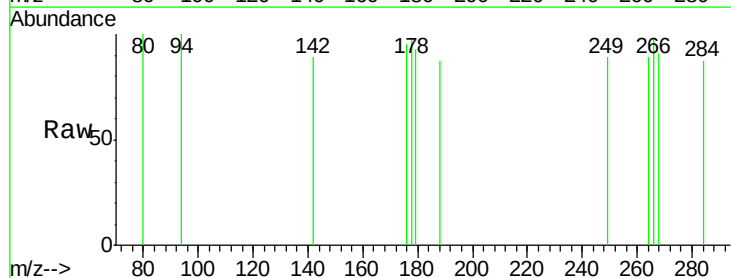
Instrument :
BNA_E
ClientSampleId :
MDL-04-S

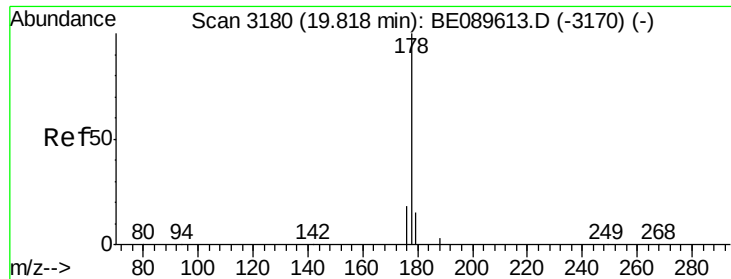
Tot Ion:284 Resp: 405
Ion Ratio Lower Upper
284 100
142 35.1 32.3 48.5
249 25.7 22.3 33.5



#15
Pentachlorophenol
Concen: Below Cal
RT: 19.44 min Scan# 3140
Delta R.T. -0.00 min
Lab File: BE089635.D
Acq: 19 Feb 2015 13:19

Tgt Ion:266 Resp: 22
Ion Ratio Lower Upper
266 100
268 92.6 52.6 79.0#
264 90.7 51.8 77.8#





#16

Phenanthrene

Concen: 0.06 ng

RT: 19.82 min Scan# 3182

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

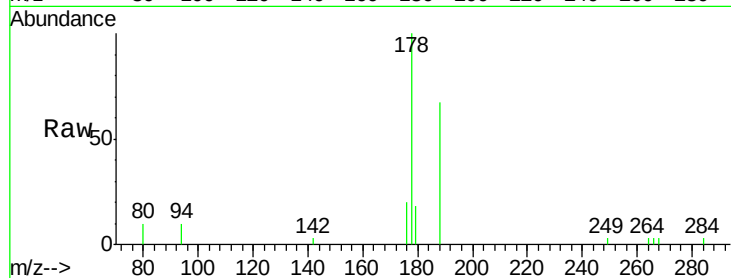
Tot Ion:178 Resp: 2204

Ion Ratio Lower Upper

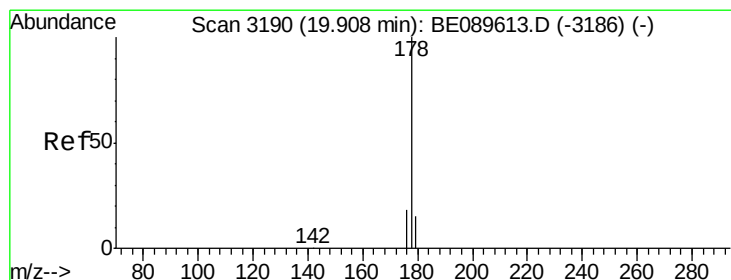
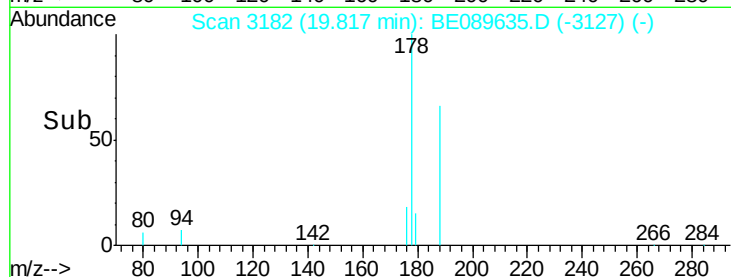
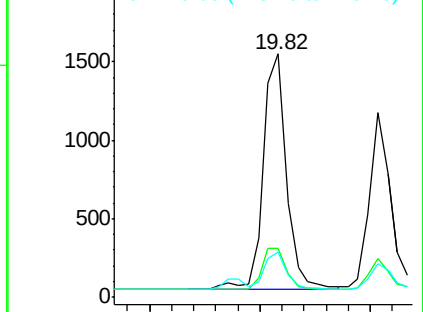
178 100

176 18.4 15.1 22.7

179 14.9 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



#17

Anthracene

Concen: 0.05 ng

RT: 19.91 min Scan# 3192

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

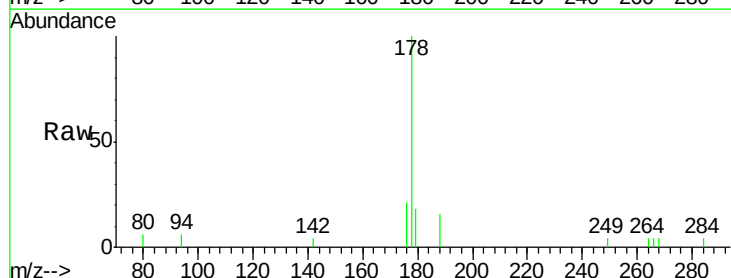
Tgt Ion:178 Resp: 1553

Ion Ratio Lower Upper

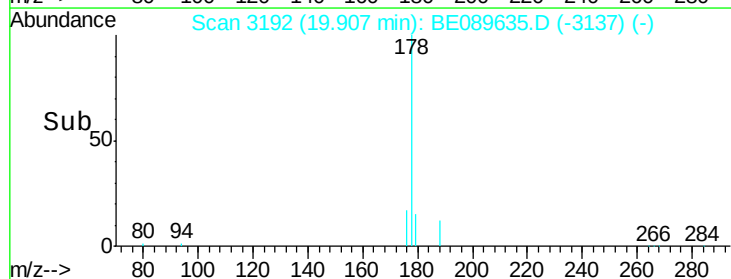
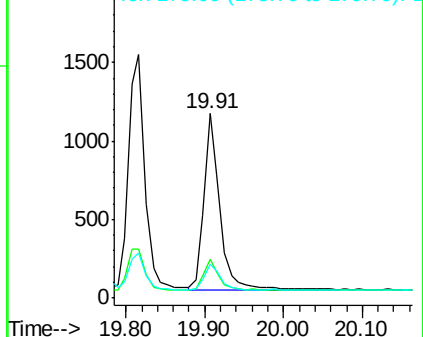
178 100

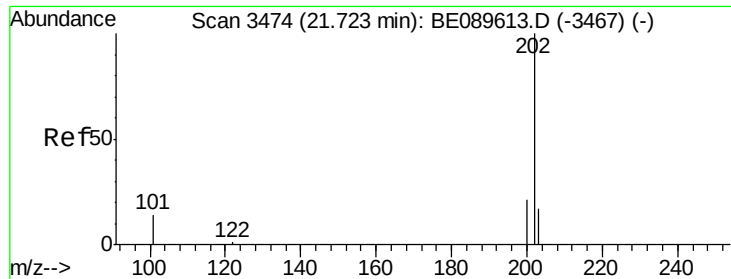
176 16.7 14.6 22.0

179 15.1 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





#18

Fluoranthene

Concen: 0.05 ng

RT: 21.72 min Scan# 3477

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

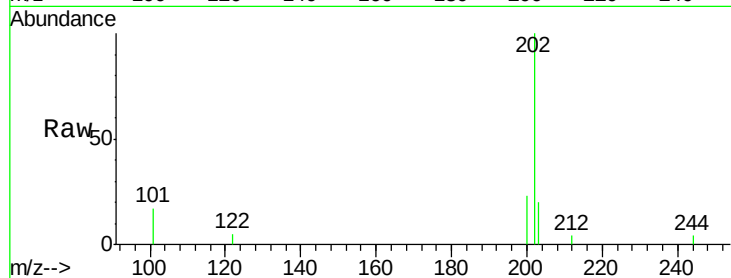
Tot Ion:202 Resp: 1595

Ion Ratio Lower Upper

202 100

101 12.8 10.4 15.6

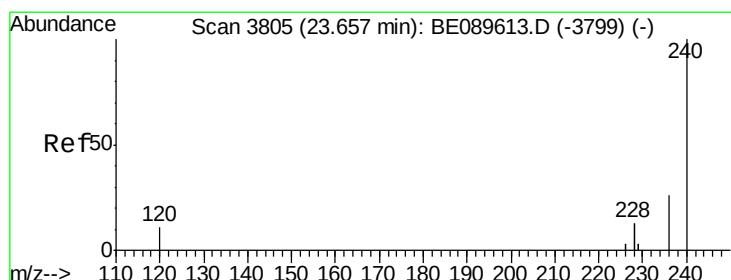
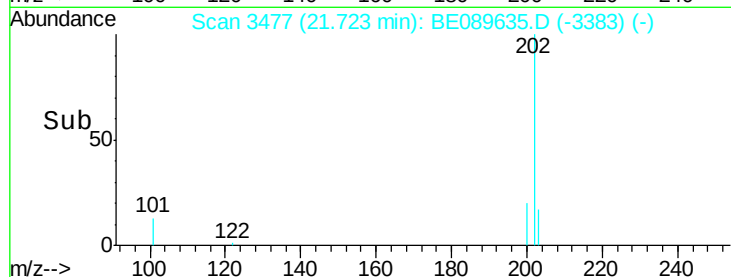
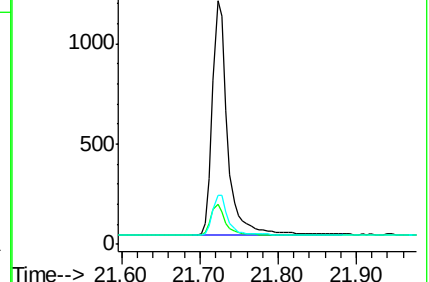
203 17.0 13.9 20.9



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# 3808

Delta R.T. 0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

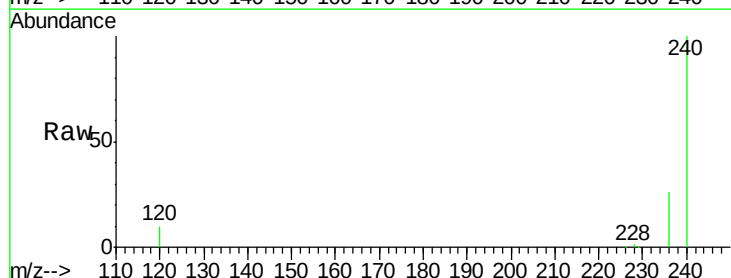
Tgt Ion:240 Resp: 134899

Ion Ratio Lower Upper

240 100

120 10.1 9.0 13.4

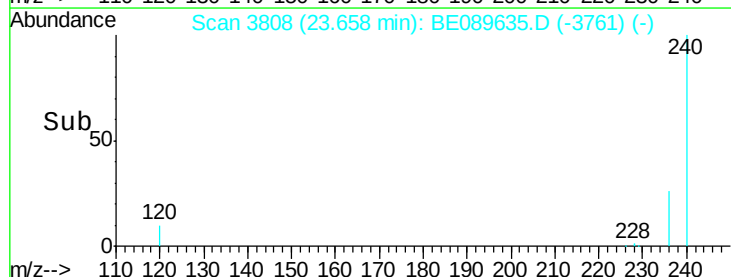
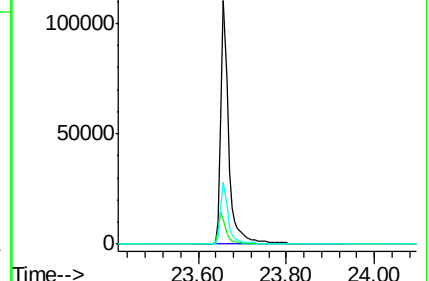
236 25.6 21.0 31.6

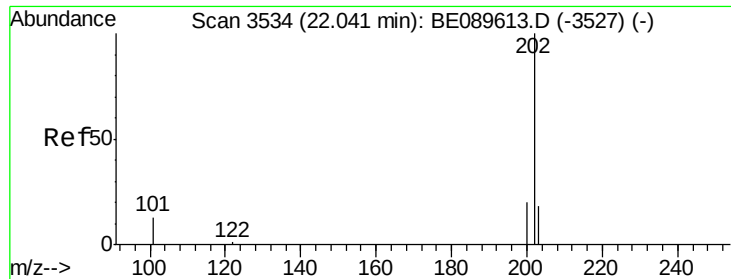


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#20

Pvrene

Concen: 0.05 ng

RT: 22.04 min Scan# 3537

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

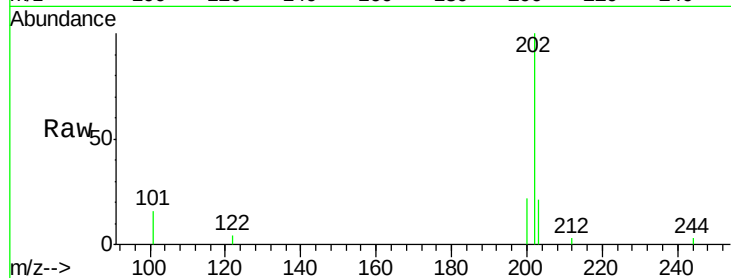
Tot Ion:202 Resp: 1707

Ion Ratio Lower Upper

202 100

200 20.0 16.3 24.5

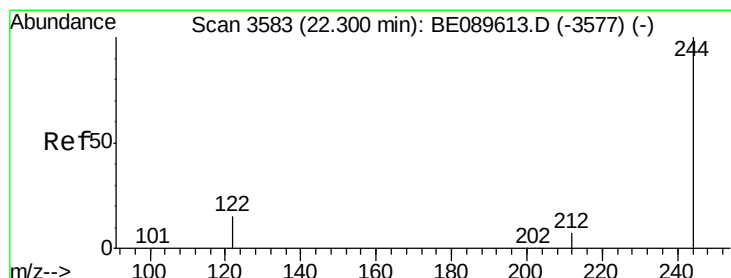
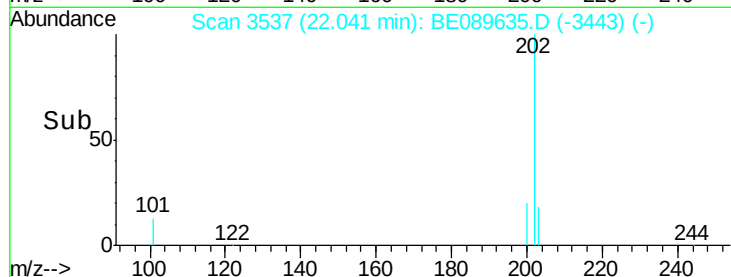
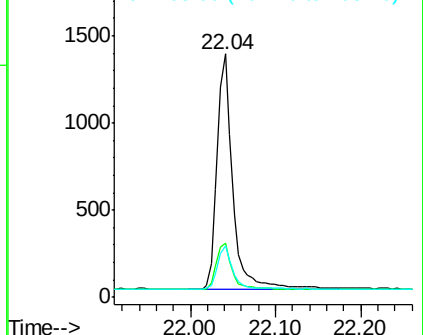
203 17.6 13.8 20.8



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: 10.09 ng

RT: 22.30 min Scan# 3586

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

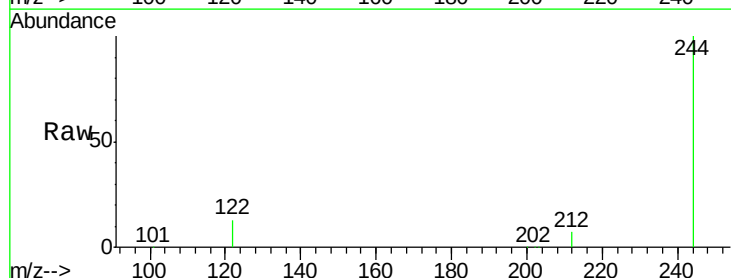
Tgt Ion:244 Resp: 195686

Ion Ratio Lower Upper

244 100

212 6.7 5.8 8.8

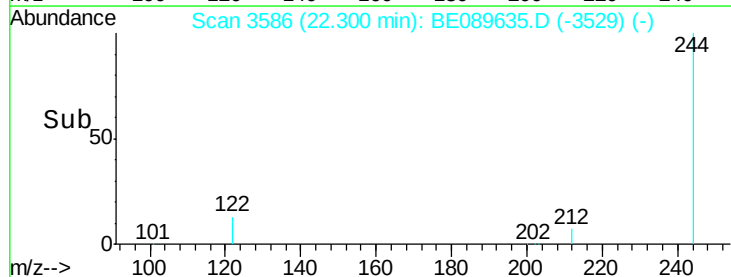
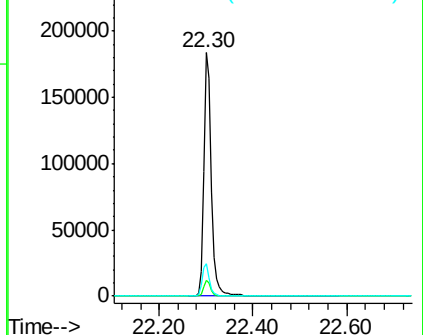
122 13.3 11.8 17.8

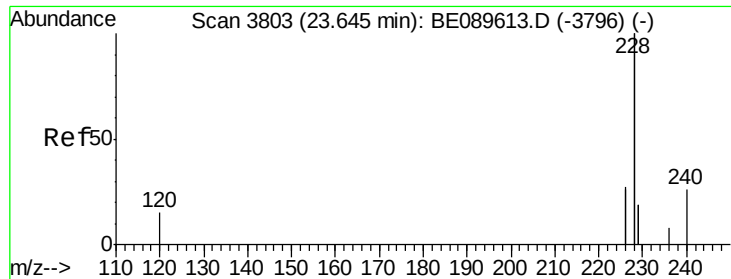


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

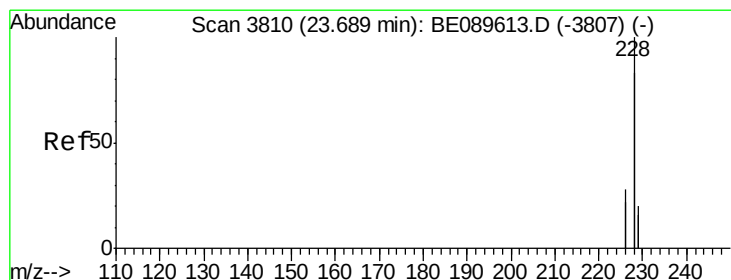
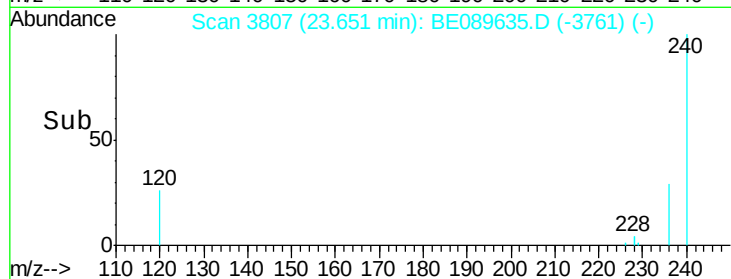
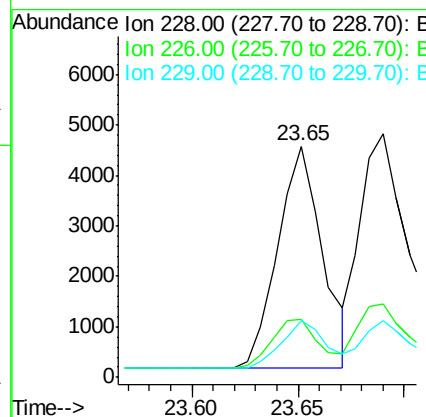
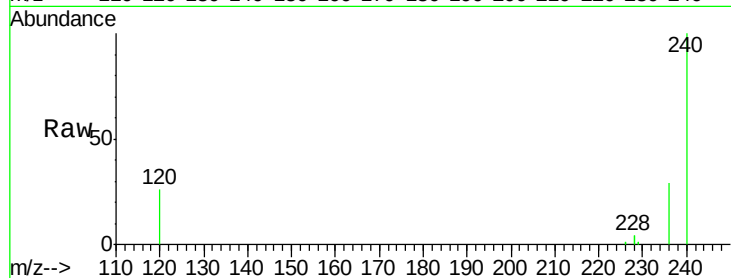




#22
Benzo(a)anthracene
Concen: 0.05 ng
RT: 23.65 min Scan# 3807
Delta R.T. 0.01 min
Lab File: BE089635.D
Acq: 19 Feb 2015 13:19

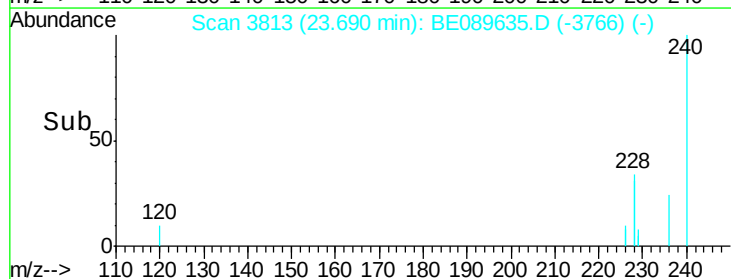
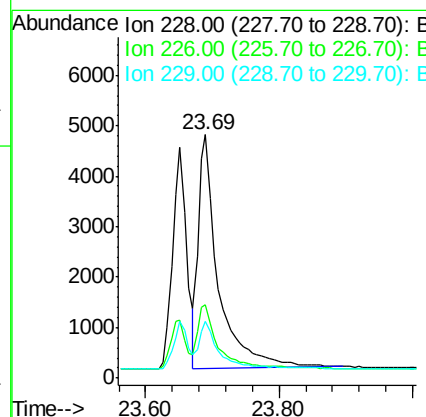
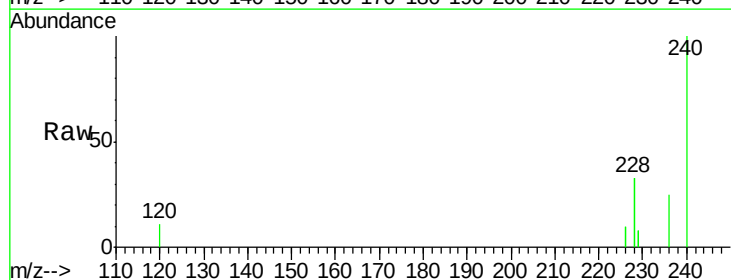
Instrument :
BNA_E
ClientSampleId :
MDL-04-S

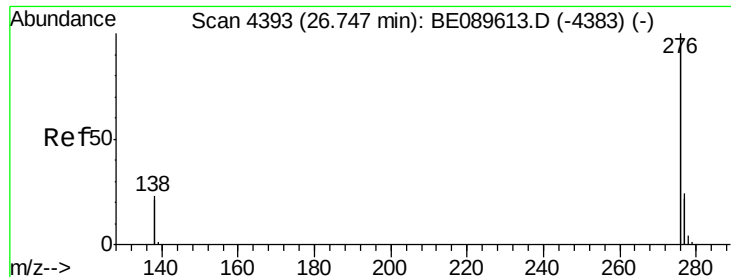
Tot Ion:228 Resp: 6418
Ion Ratio Lower Upper
228 100
226 25.1 21.2 31.8
229 24.4 15.2 22.8#



#23
Chrysene
Concen: 0.07 ng
RT: 23.69 min Scan# 3813
Delta R.T. 0.00 min
Lab File: BE089635.D
Acq: 19 Feb 2015 13:19

Tgt Ion:228 Resp: 9564
Ion Ratio Lower Upper
228 100
226 30.1 22.2 33.4
229 23.1 16.0 24.0

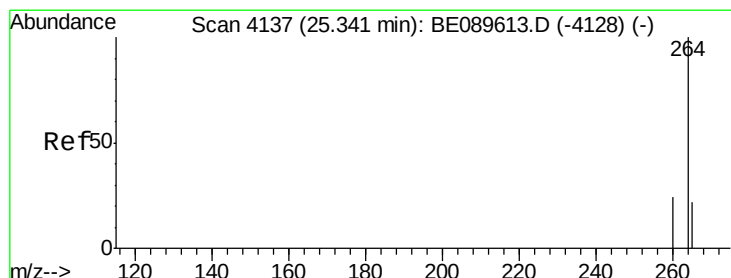
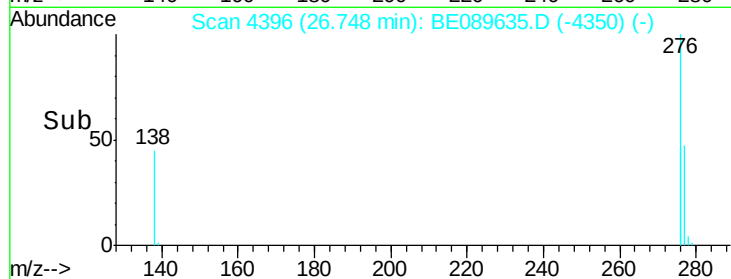
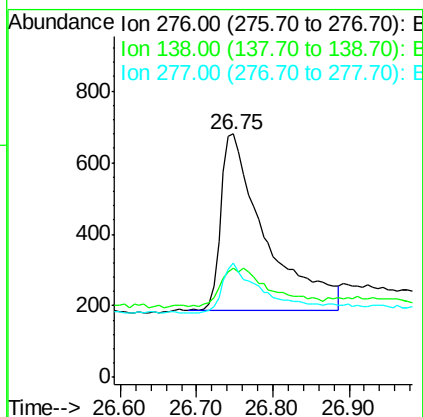
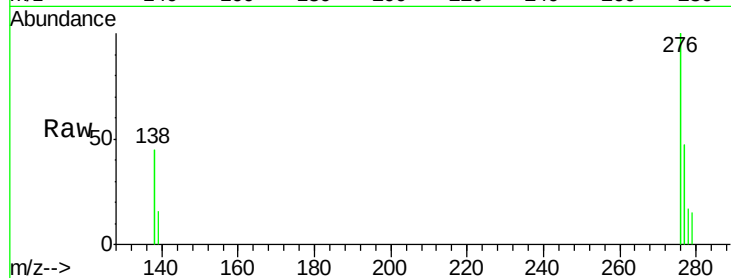




#24
 Indeno(1,2,3-cd)pyrene
 Concen: 0.19 ng
 RT: 26.75 min Scan# 4396
 Delta R.T. 0.00 min
 Lab File: BE089635.D
 Acq: 19 Feb 2015 13:19

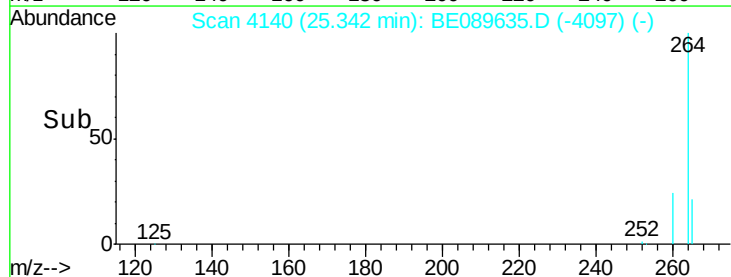
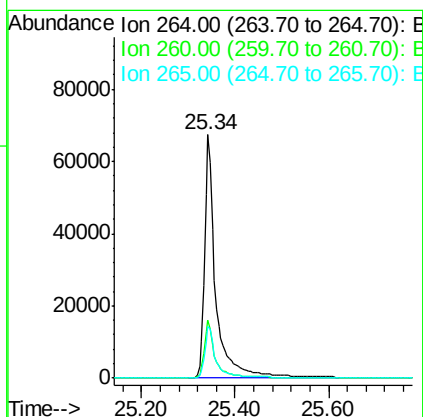
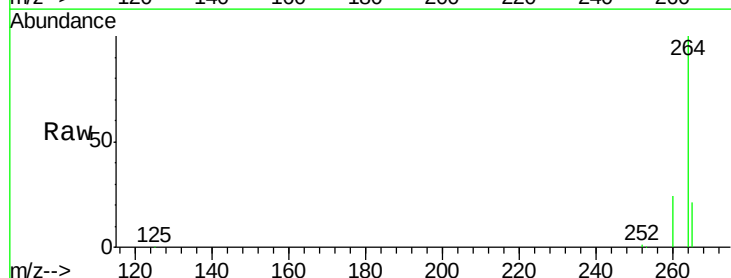
Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-S

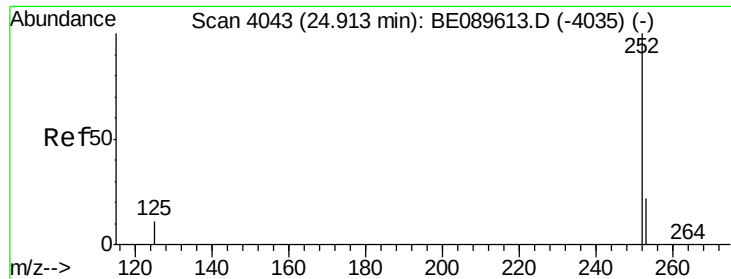
Tot Ion:276 Resp: 2008
 Ion Ratio Lower Upper
 276 100
 138 24.7 21.4 32.2
 277 27.7 19.9 29.9



#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4140
 Delta R.T. 0.00 min
 Lab File: BE089635.D
 Acq: 19 Feb 2015 13:19

Tgt Ion:264 Resp: 112790
 Ion Ratio Lower Upper
 264 100
 260 23.9 19.0 28.6
 265 21.4 17.4 26.0





#26

Benzo(b)fluoranthene

Concen: 0.29 ng

RT: 24.91 min Scan# 4045

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

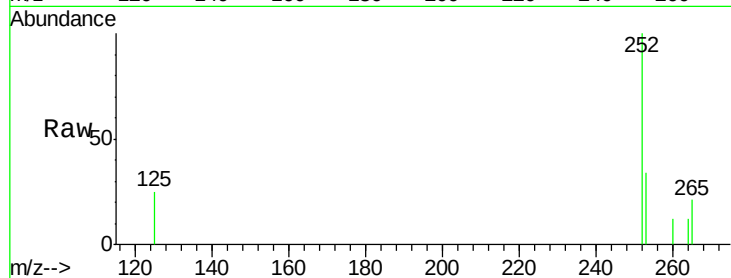
Tot Ion:252 Resp: 438

Ion Ratio Lower Upper

252 100

253 34.3 17.6 26.4#

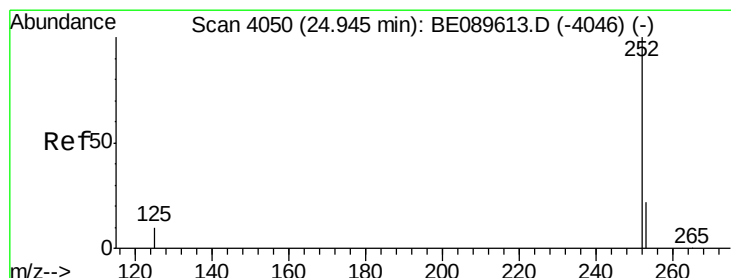
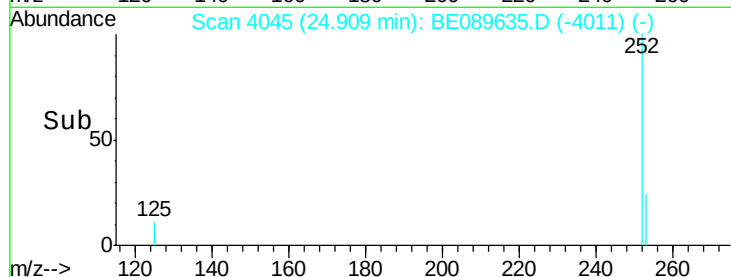
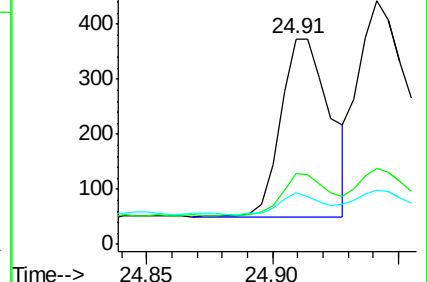
125 24.9 8.8 13.2#



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 m

RT: 24.94 min Scan# 4052

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

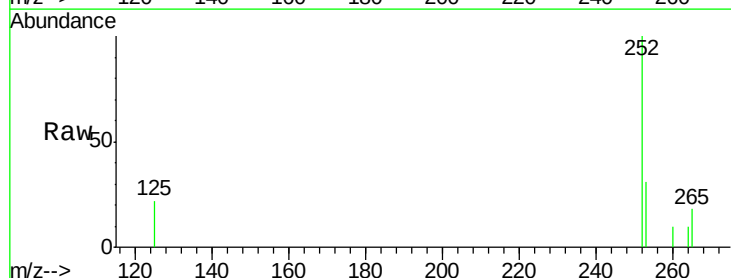
Tgt Ion:252 Resp: 957

Ion Ratio Lower Upper

252 100

253 31.0 17.7 26.5#

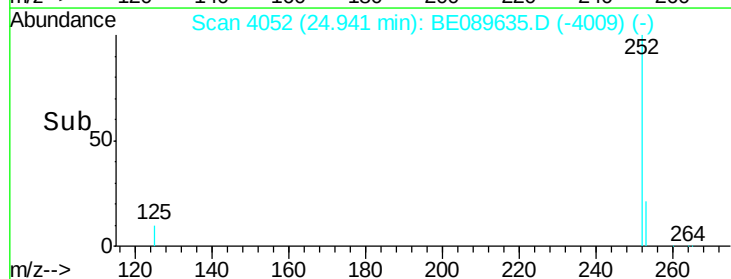
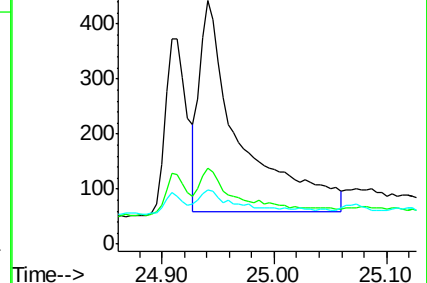
125 22.4 8.8 13.2#

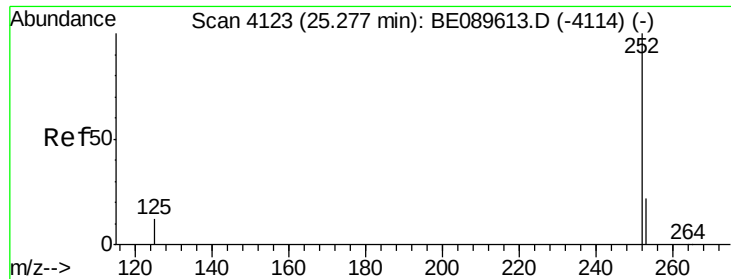


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#28

Benzo(a)pyrene

Concen: 0.26 ng

RT: 25.27 min Scan# 4125

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

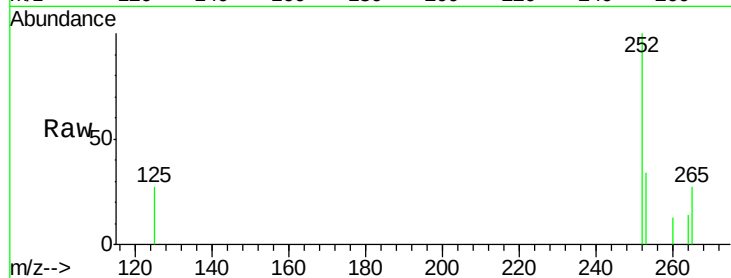
Tot Ion:252 Resp: 460

Ion Ratio Lower Upper

252 100

253 34.1 18.1 27.1#

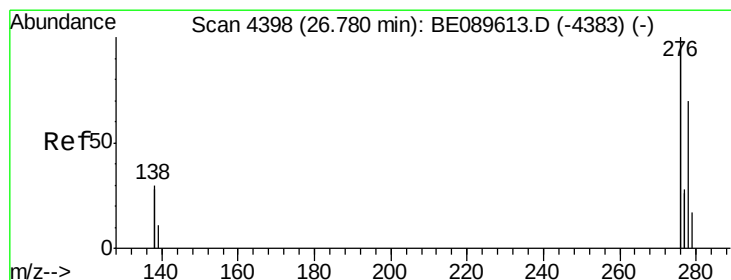
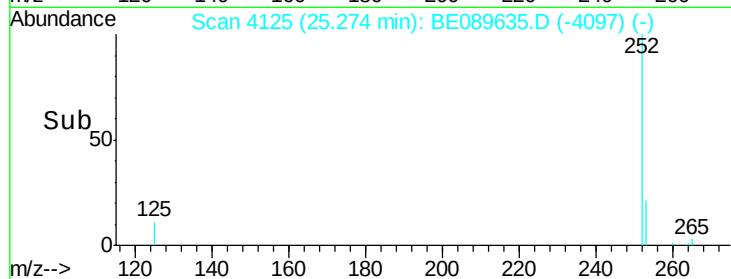
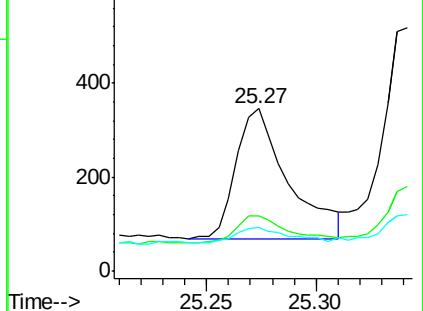
125 26.9 9.6 14.4#



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: 0.24 ng

RT: 26.77 min Scan# 4400

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

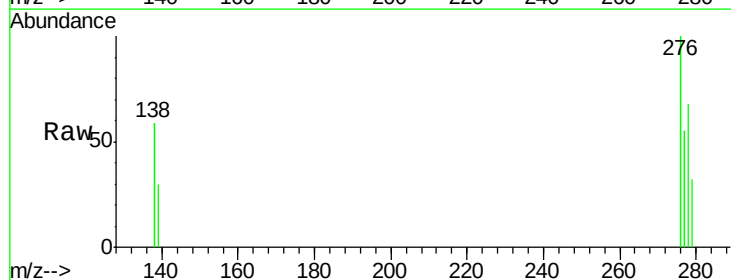
Tgt Ion:278 Resp: 340

Ion Ratio Lower Upper

278 100

139 44.1 13.7 20.5#

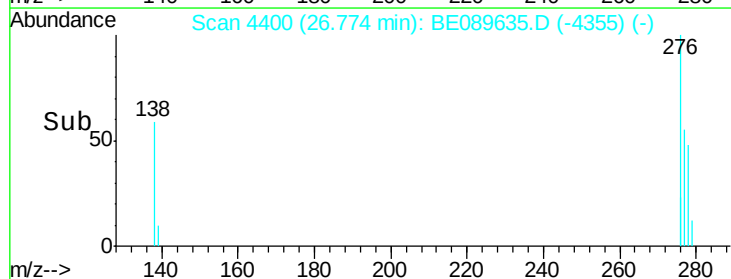
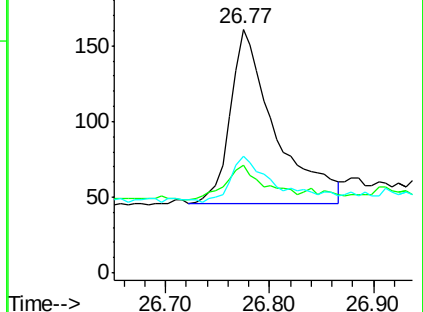
279 47.8 19.7 29.5#

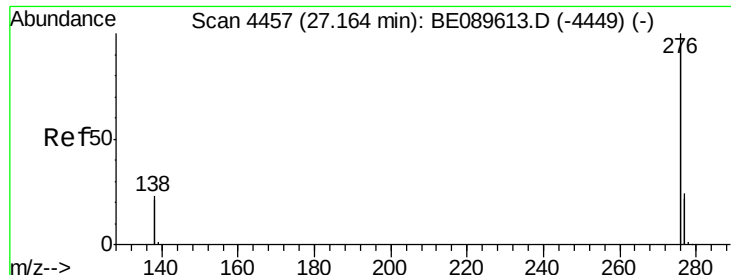


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#30

Benzo(a,h,i)perylene

Concen: 0.16 ng

RT: 27.17 min Scan# 4460

Delta R.T. 0.00 min

Lab File: BE089635.D

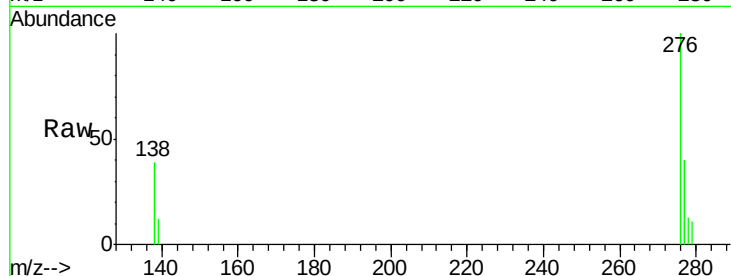
Acq: 19 Feb 2015 13:19

Instrument :

BNA_E

ClientSampleId :

MDL-04-S



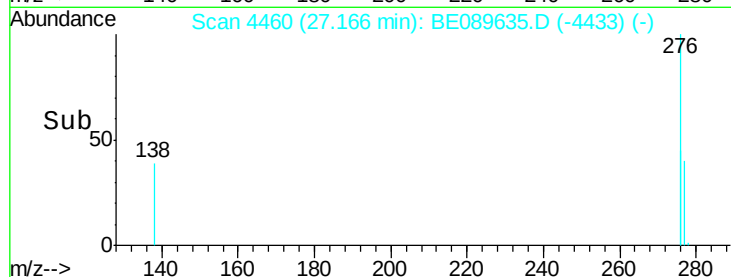
Tot Ion: 276 Resp: 2746

Ion Ratio Lower Upper

276 100

277 39.6 19.1 28.7#

138 39.4 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

