

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021815\
 Data File : BE089636.D
 Acq On : 19 Feb 2015 4:46
 Operator : TP/IZ
 Sample : MDL-05-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-S

Quant Time: Feb 19 05:48:08 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	38422	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	152468	5.00	ng	0.00
8) Acenaphthene-d10	16.43	164	74733	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	147589	5.00	ng	0.00
19) Chrysene-d12	23.66	240	134012	5.00	ng	0.00
25) Perylene-d12	25.34	264	110292	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	70300	10.61	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	187689	9.38	ng	0.00
21) Terphenyl-d14	22.31	244	223769	11.61	ng	0.00

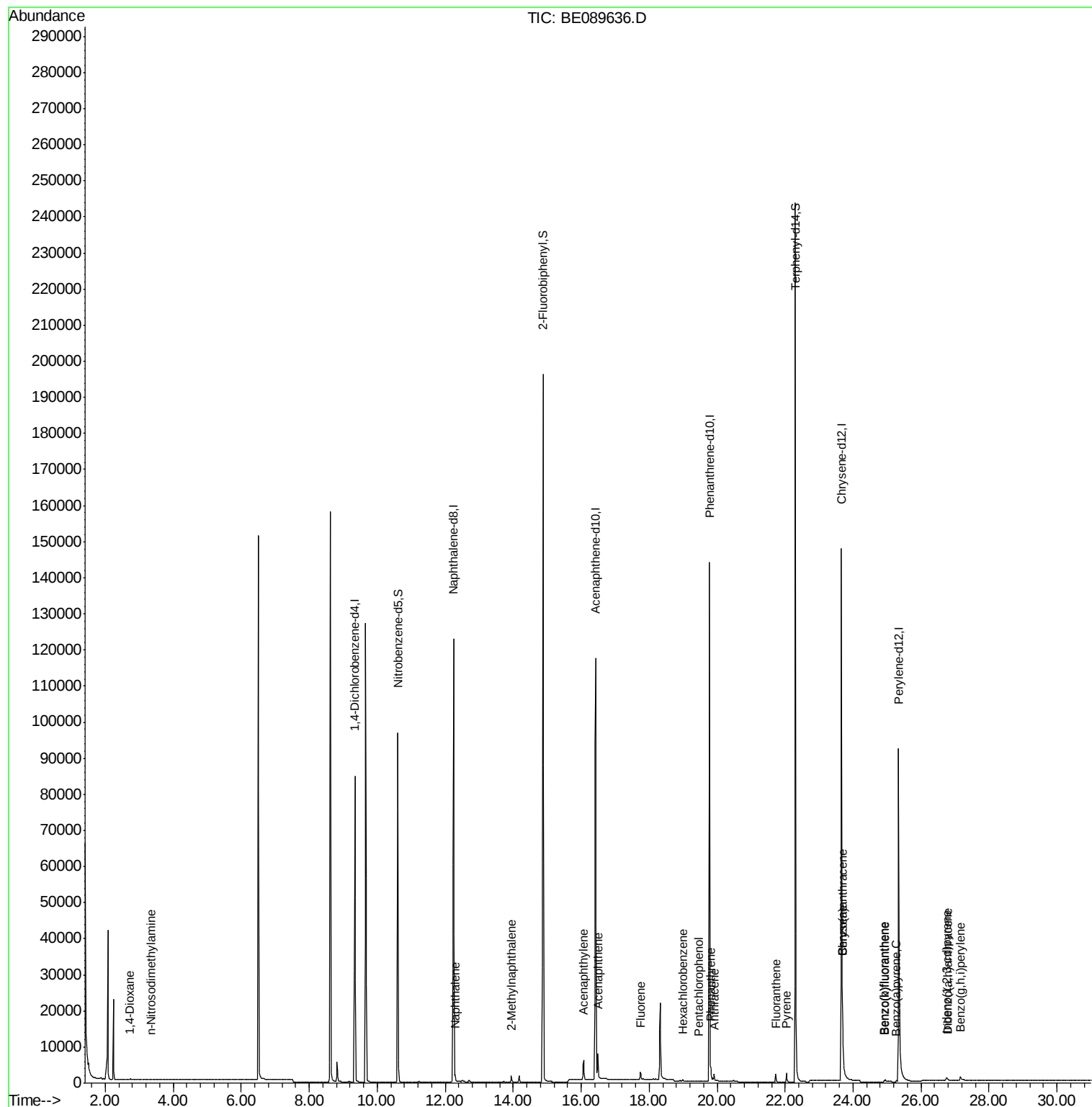
Target Compounds						Qvalue
2) 1,4-Dioxane	2.73	88	319	0.07	ng	# 85
3) n-Nitrosodimethylamine	3.34	42	5	0.00	ng	# 1
6) Naphthalene	12.29	128	2671	0.08	ng	# 94
7) 2-Methylnaphthalene	13.95	142	1446	0.07	ng	97
10) Acenaphthylene	16.07	152	7837	0.06	ng	99
11) Acenaphthene	16.49	154	1444	0.07	ng	91
12) Fluorene	17.74	166	1621	0.07	ng	98
14) Hexachlorobenzene	19.00	284	492	0.08	ng	96
15) Pentachlorophenol	19.45	266	38	0.01	ng	# 67
16) Phenanthrene	19.82	178	2738	0.08	ng	100
17) Anthracene	19.91	178	1953	0.06	ng	99
18) Fluoranthene	21.72	202	2036	0.06	ng	100
20) Pyrene	22.04	202	2186	0.07	ng	100
22) Benzo(a)anthracene	23.69	228	11846	0.10	ng	93
23) Chrysene	23.69	228	12006	0.09	ng	95
24) Indeno(1,2,3-cd)pyrene	26.74	276	1957	0.19	ng	97
26) Benzo(b)fluoranthene	24.91	252	504	0.29	ng	# 76
27) Benzo(k)fluoranthene	24.94	252	996	0.03	ng	# 80
28) Benzo(a)pyrene	25.27	252	524	0.26	ng	# 72
29) Dibenzo(a,h)anthracene	26.77	278	372	0.25	ng	# 57
30) Benzo(g,h,i)perylene	27.16	276	2729	0.16	ng	# 68

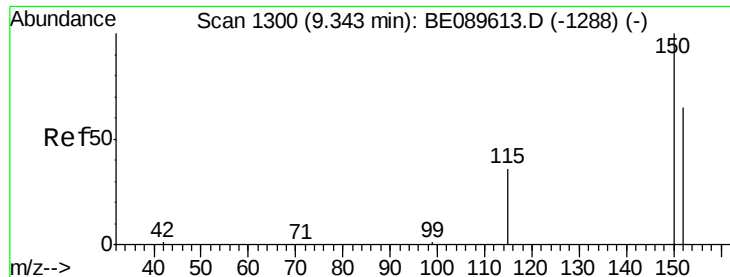
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021815\
Data File : BE089636.D
Acq On : 19 Feb 2015 4:46
Operator : TP/IZ
Sample : MDL-05-S
Misc : MDL-SOIL-0.1/0.2
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
MDL-05-S

Quant Time: Feb 19 05:48:08 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





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1300

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 4:46

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

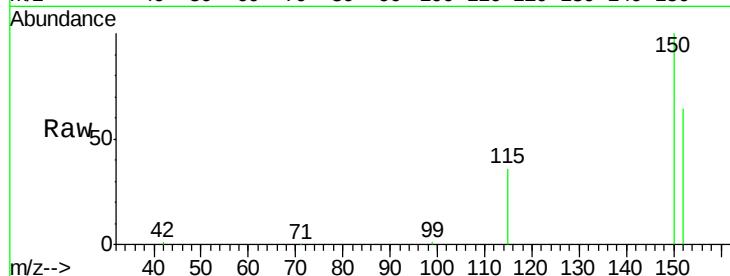
Tgt Ion:152 Resp: 38422

Ion Ratio Lower Upper

152 100

150 156.6 122.4 183.6

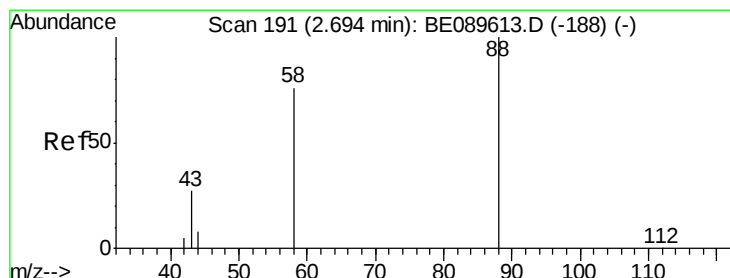
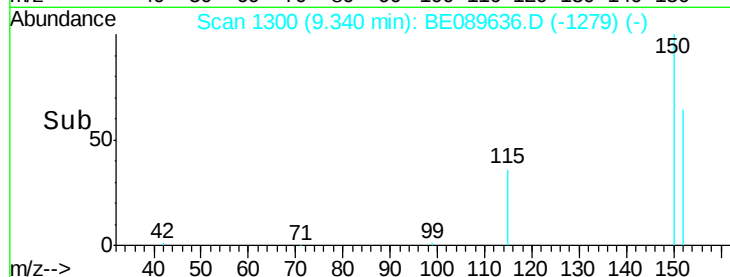
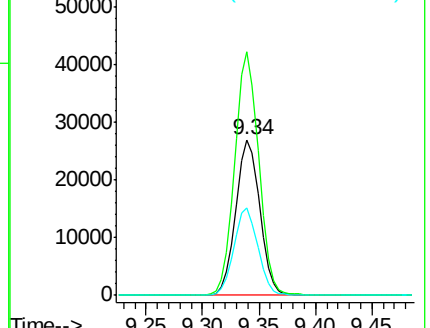
115 56.6 44.2 66.2



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: 0.07 ng

RT: 2.73 min Scan# 197

Delta R.T. 0.04 min

Lab File: BE089636.D

Acq: 19 Feb 2015 4:46

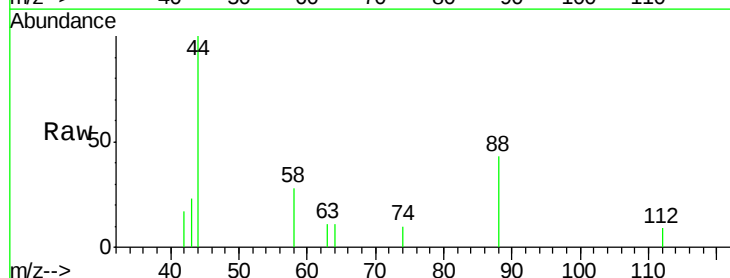
Tgt Ion: 88 Resp: 319

Ion Ratio Lower Upper

88 100

58 69.9 54.6 81.8

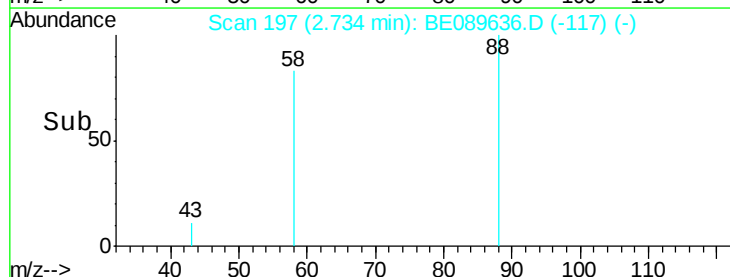
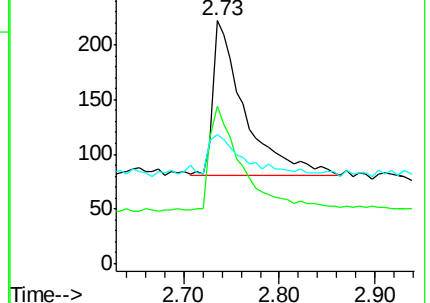
43 0.0 20.6 30.8#

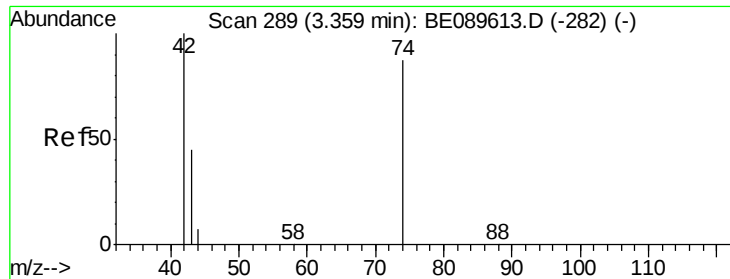


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



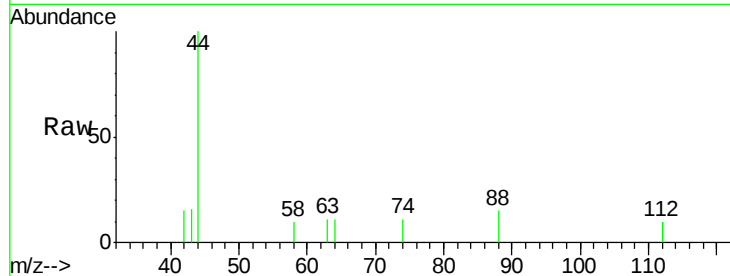


#3

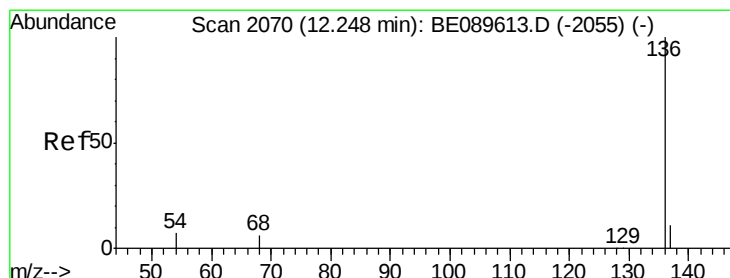
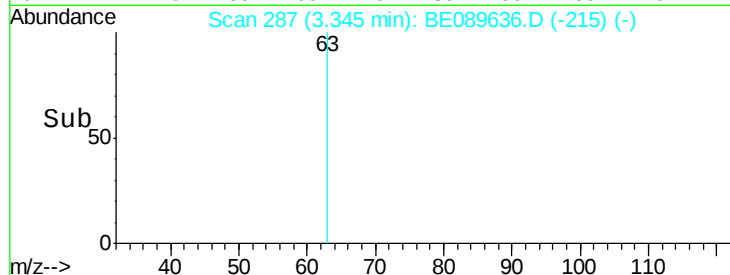
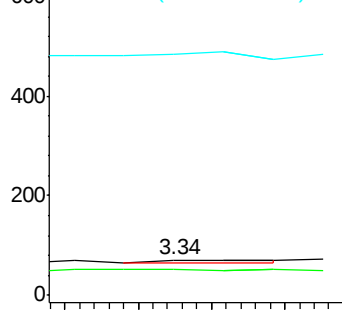
n-Nitrosodimethylamine
Concen: 0.00 ng
RT: 3.34 min Scan# 287
Delta R.T. -0.01 min
Lab File: BE089636.D
Acq: 19 Feb 2015 4:46

Instrument :
BNA_E
ClientSampleId :
MDL-05-S

Tgt Ion: 42 Resp: 5
Ion Ratio Lower Upper
42 100
74 0.0 121.4 182.0#
44 0.0 4.5 6.7#



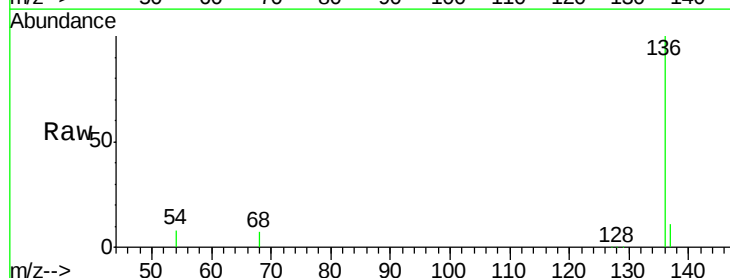
Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



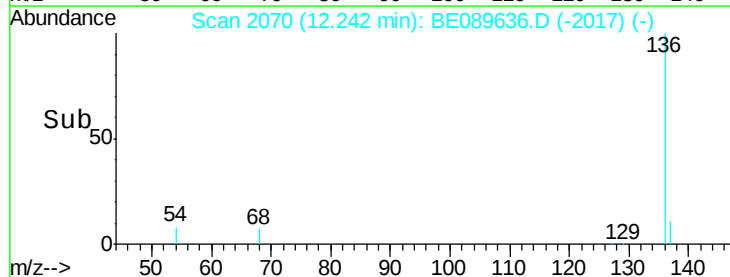
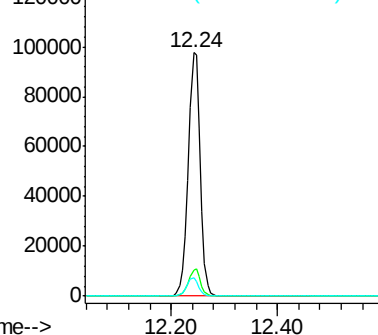
#4

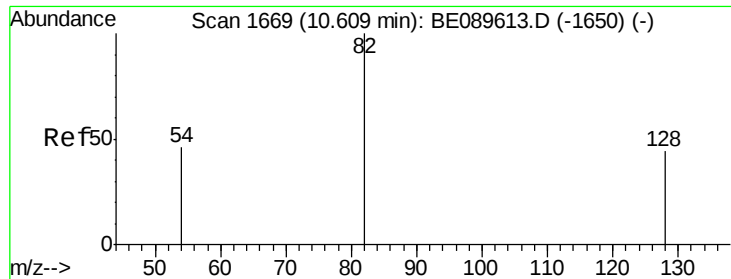
Naphthalene-d8
Concen: 5.00 ng
RT: 12.24 min Scan# 2070
Delta R.T. -0.01 min
Lab File: BE089636.D
Acq: 19 Feb 2015 4:46

Tgt Ion: 136 Resp: 152468
Ion Ratio Lower Upper
136 100
137 10.9 8.9 13.3
54 7.8 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: 10.61 ng

RT: 10.61 min Scan# 1669

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 4:46

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

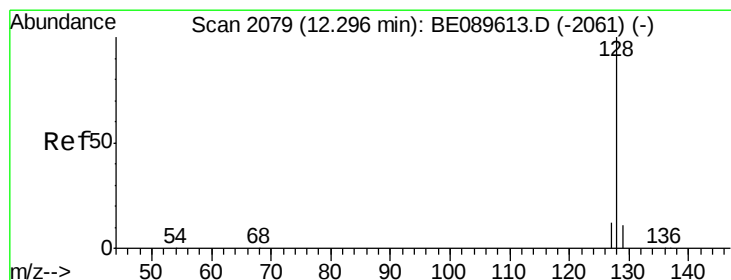
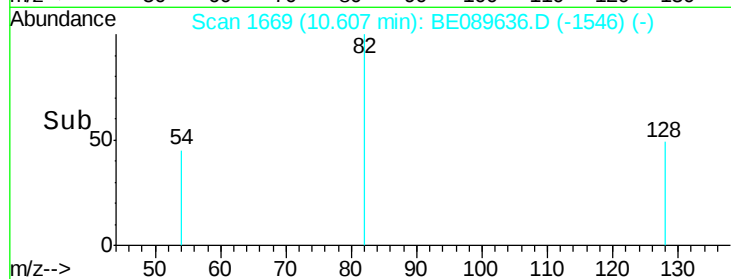
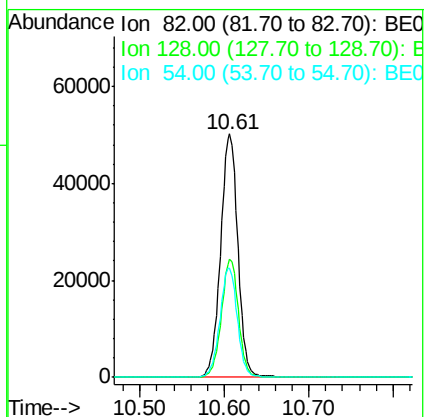
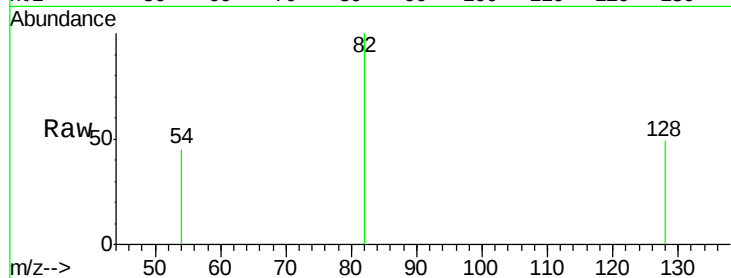
Tgt Ion: 82 Resp: 70300

Ion Ratio Lower Upper

82 100

128 48.6 35.5 53.3

54 44.8 37.5 56.3



#6

Naphthalene

Concen: 0.08 ng

RT: 12.29 min Scan# 2079

Delta R.T. -0.01 min

Lab File: BE089636.D

Acq: 19 Feb 2015 4:46

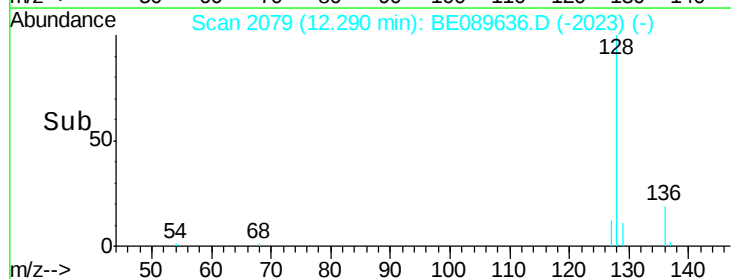
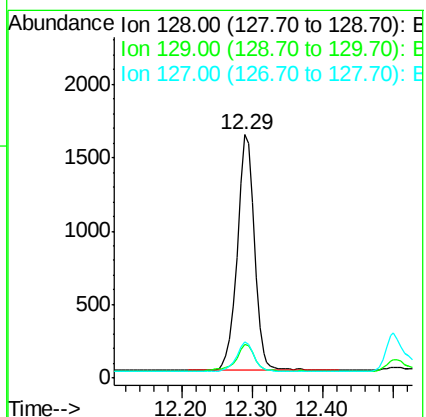
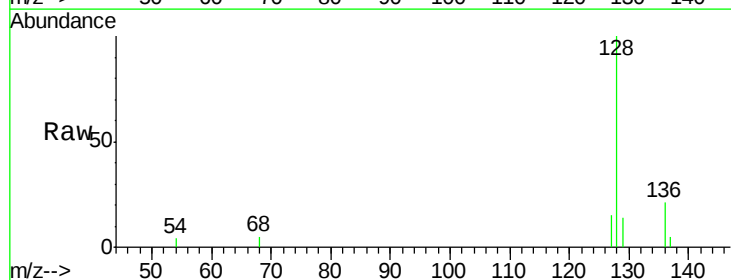
Tgt Ion: 128 Resp: 2671

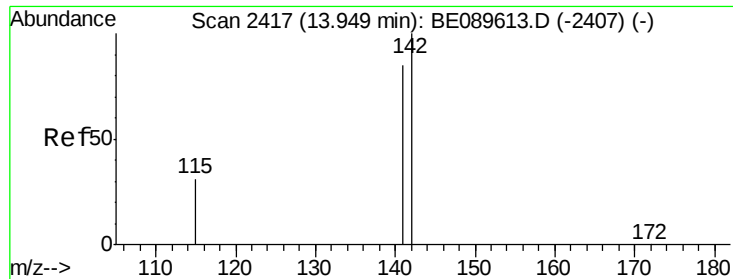
Ion Ratio Lower Upper

128 100

129 13.6 8.9 13.3#

127 14.7 9.8 14.8





#7

2-Methylnaphthalene

Concen: 0.07 ng

RT: 13.95 min Scan# 2418

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 4:46

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

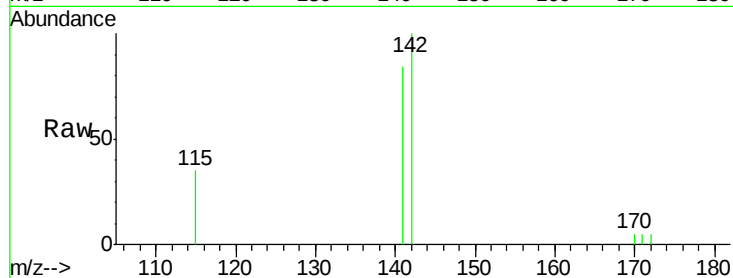
Tgt Ion:142 Resp: 1446

Ion Ratio Lower Upper

142 100

141 84.4 68.3 102.5

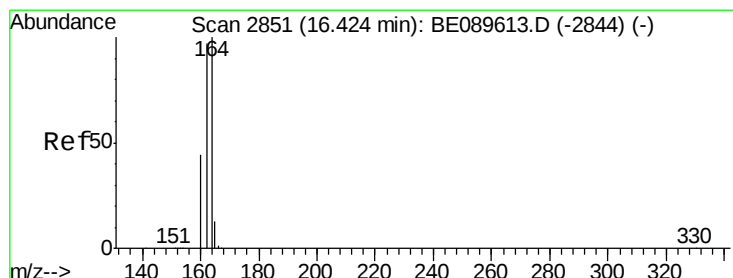
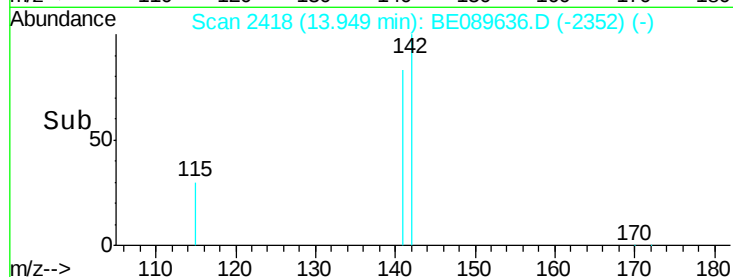
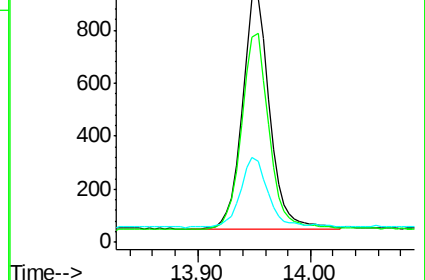
115 35.0 25.1 37.7



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# 2853

Delta R.T. 0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 4:46

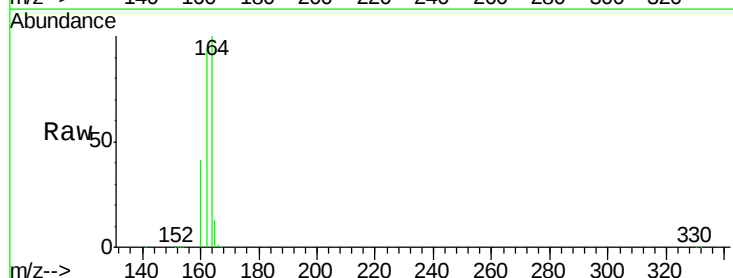
Tgt Ion:164 Resp: 74733

Ion Ratio Lower Upper

164 100

162 93.7 77.5 116.3

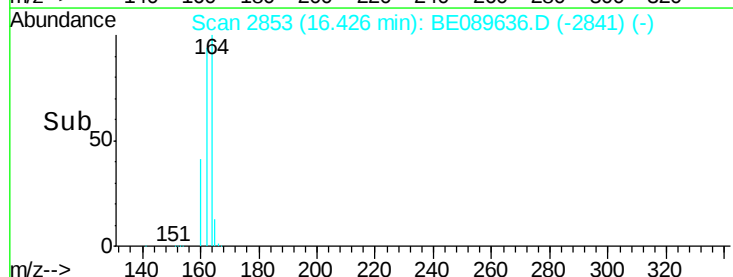
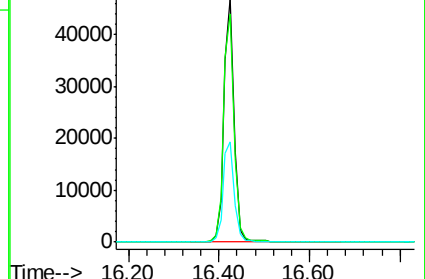
160 41.3 35.5 53.3

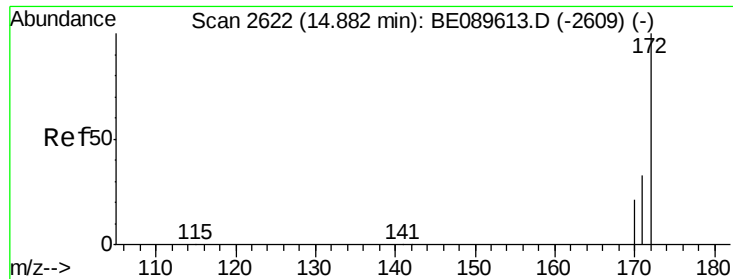


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 9.38 ng

RT: 14.88 min Scan# 2622

Delta R.T. -0.01 min

Lab File: BE089636.D

Acq: 19 Feb 2015 4:46

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

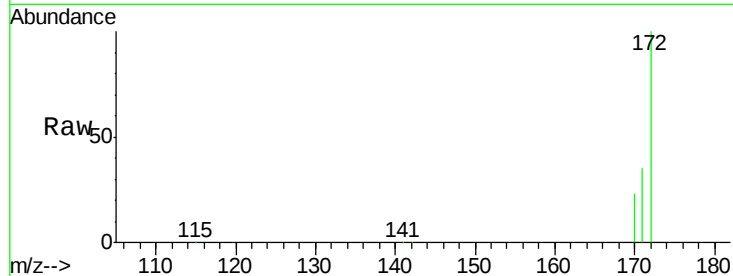
Tgt Ion:172 Resp: 187689

Ion Ratio Lower Upper

172 100

171 34.9 26.9 40.3

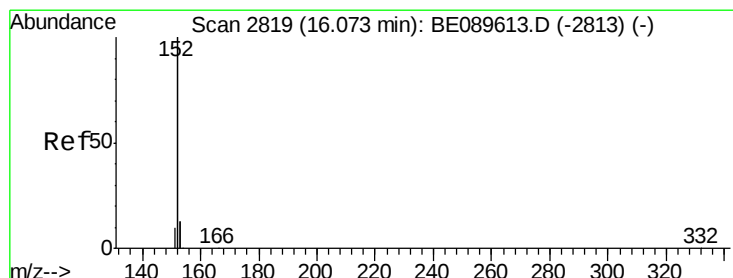
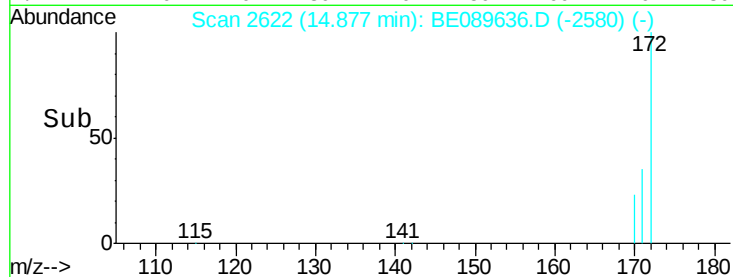
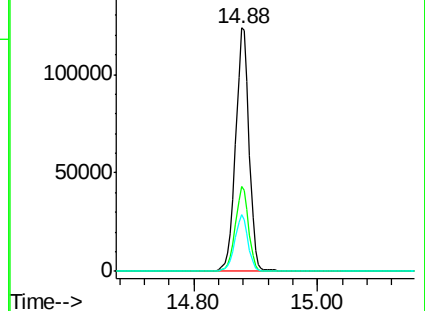
170 23.3 17.4 26.0



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: 0.06 ng

RT: 16.07 min Scan# 2821

Delta R.T. 0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 4:46

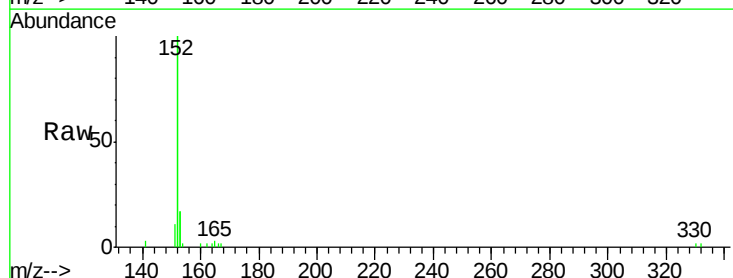
Tgt Ion:152 Resp: 7837

Ion Ratio Lower Upper

152 100

151 5.2 3.9 5.9

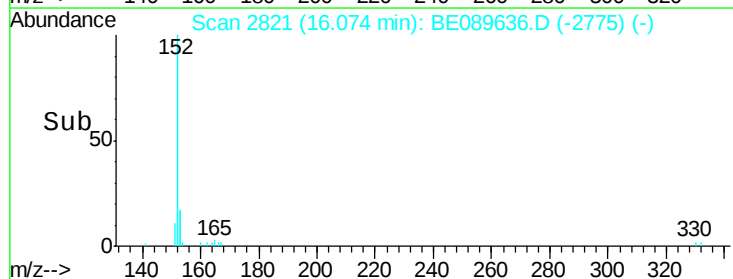
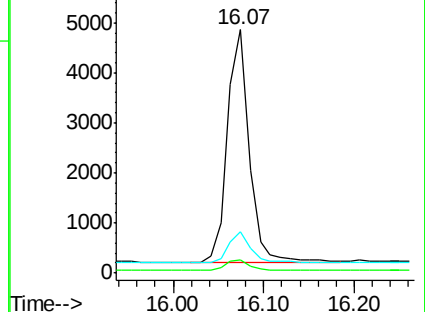
153 13.4 10.5 15.7

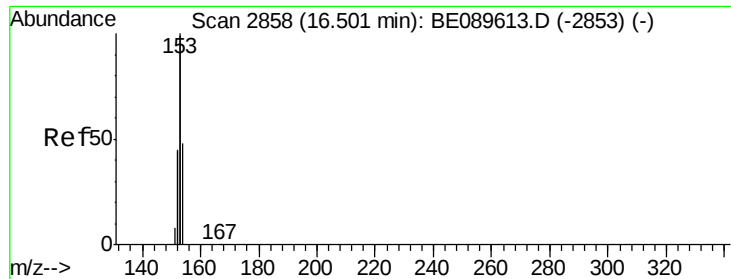


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.07 ng

RT: 16.49 min Scan# 2859

Delta R.T. -0.01 min

Lab File: BE089636.D

Acq: 19 Feb 2015 4:46

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

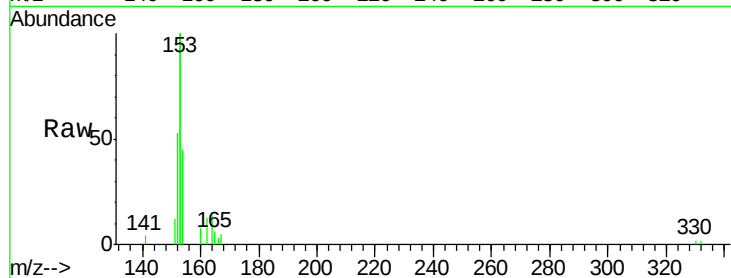
Tgt Ion:154 Resp: 1444

Ion Ratio Lower Upper

154 100

153 446.3 348.9 523.3

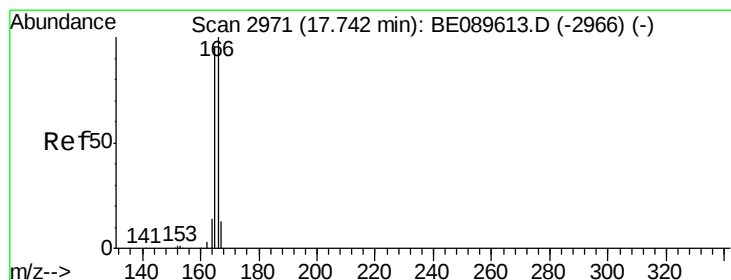
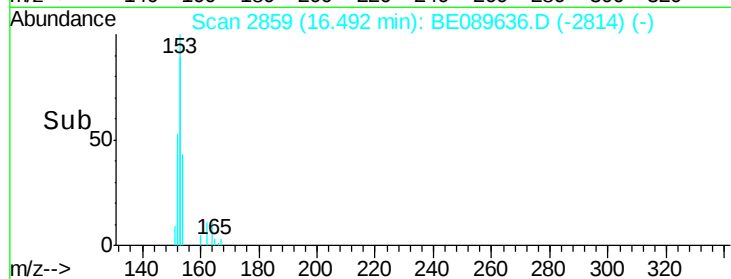
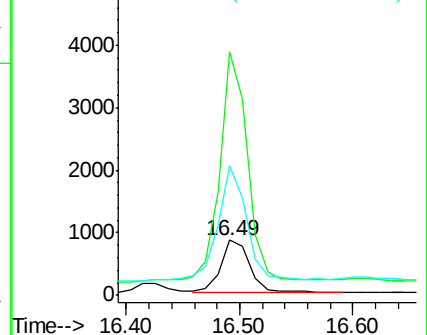
152 237.7 166.6 249.8



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: 0.07 ng

RT: 17.74 min Scan# 2973

Delta R.T. 0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 4:46

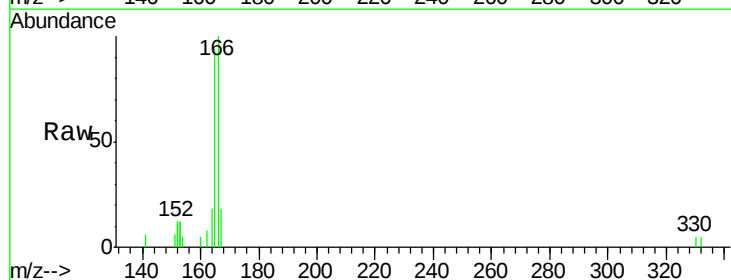
Tgt Ion:166 Resp: 1621

Ion Ratio Lower Upper

166 100

165 91.6 74.7 112.1

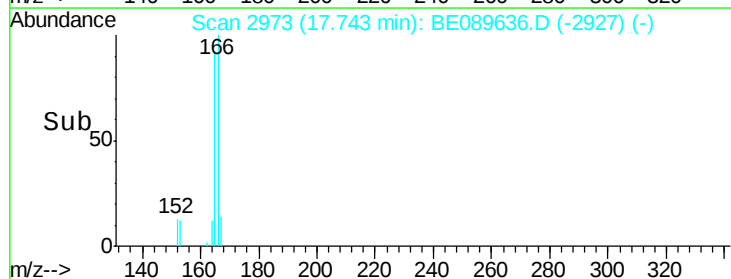
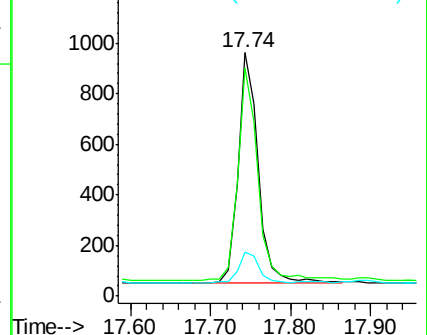
167 13.2 10.5 15.7

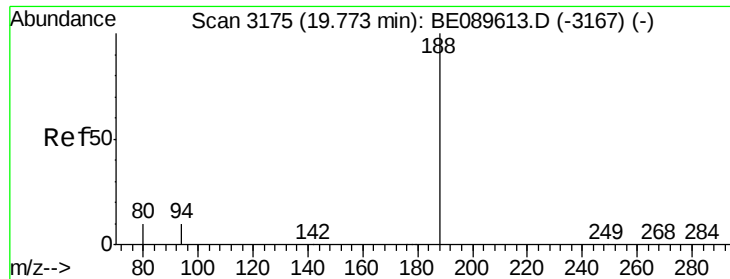


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.77 min Scan# 3177

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 4:46

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

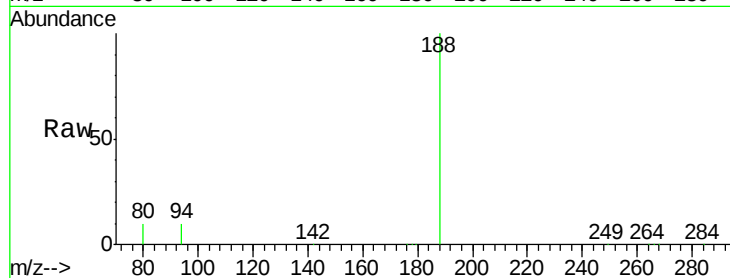
Tgt Ion:188 Resp: 147589

Ion Ratio Lower Upper

188 100

94 9.7 8.2 12.4

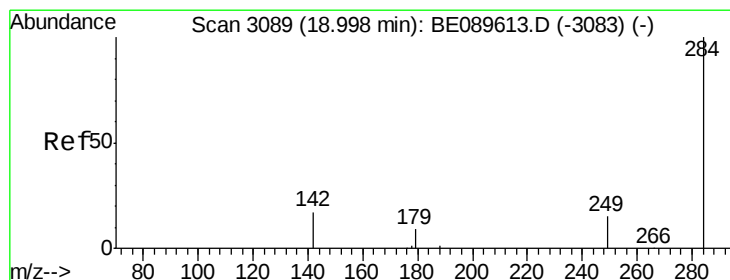
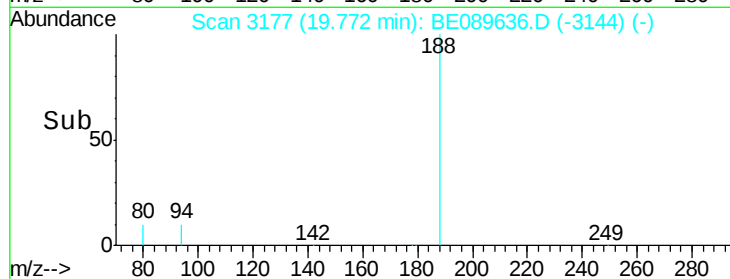
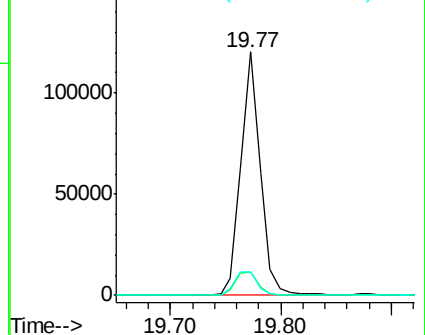
80 9.6 8.1 12.1



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



#14

Hexachlorobenzene

Concen: 0.08 ng

RT: 19.00 min Scan# 3091

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 4:46

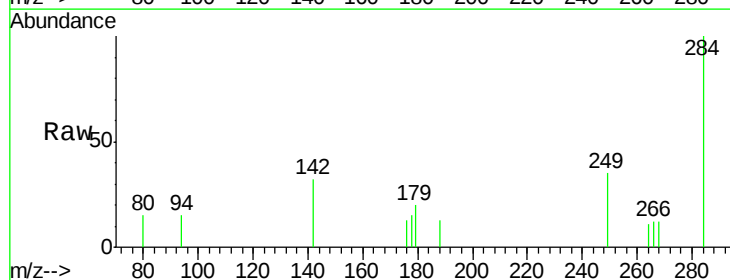
Tgt Ion:284 Resp: 492

Ion Ratio Lower Upper

284 100

142 37.6 32.3 48.5

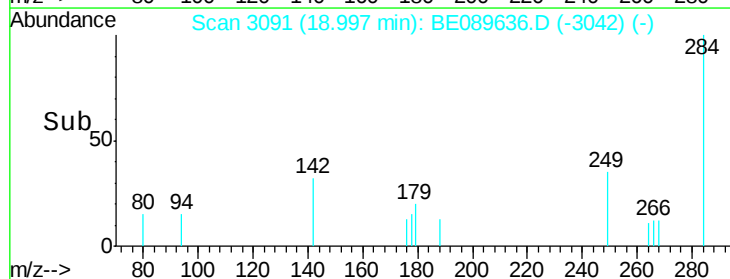
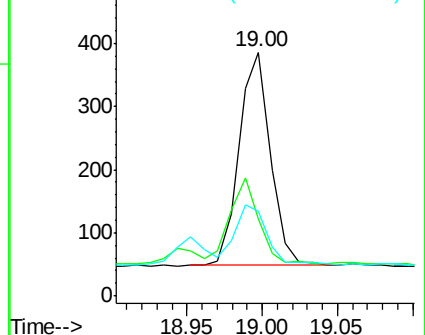
249 29.9 22.3 33.5

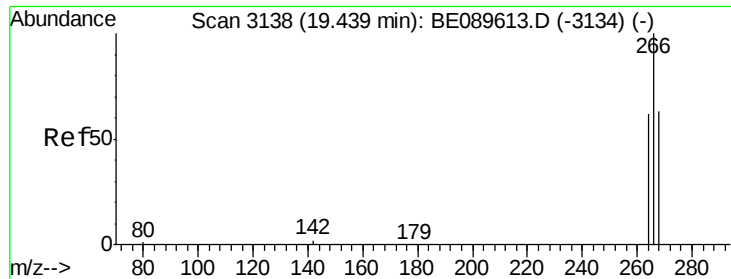


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

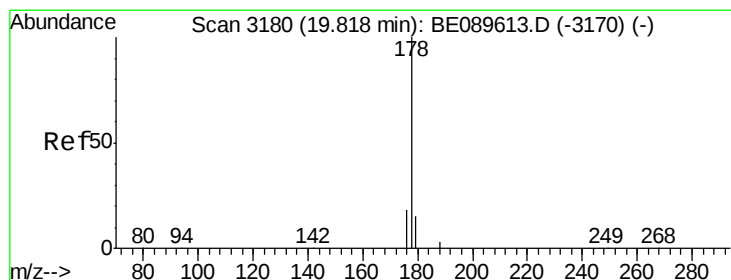
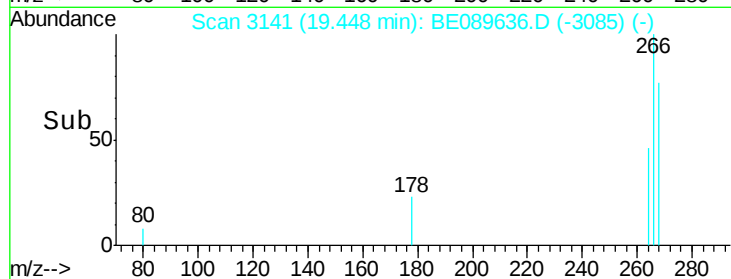
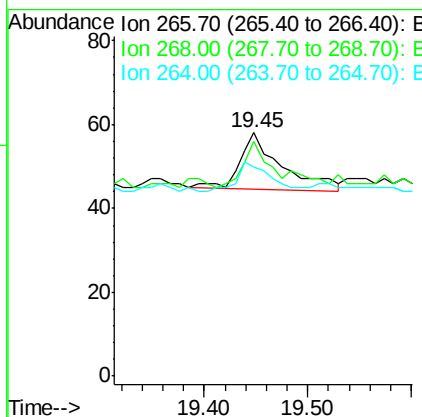
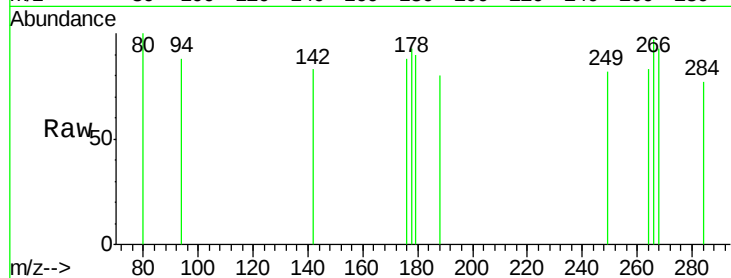




#15
 Pentachlorophenol
 Concen: 0.01 ng
 RT: 19.45 min Scan# 3141
 Delta R.T. 0.01 min
 Lab File: BE089636.D
 Acq: 19 Feb 2015 4:46

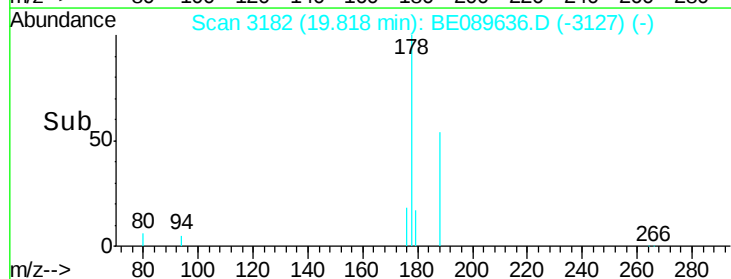
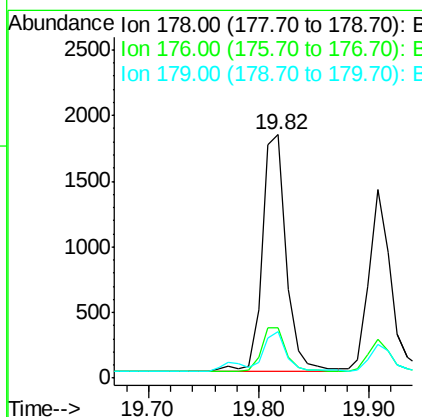
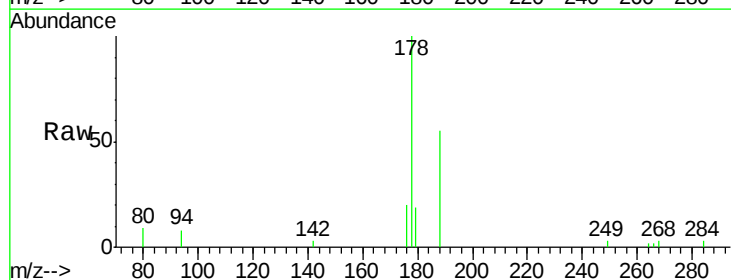
Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-S

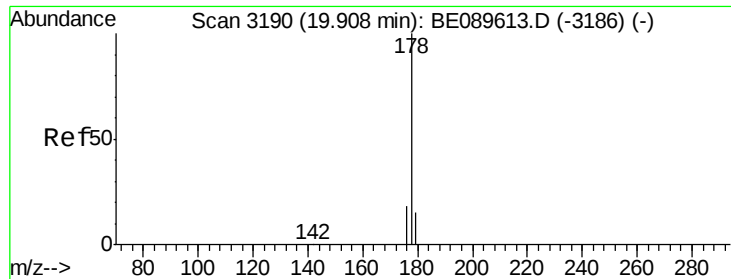
Tgt Ion: 266 Resp: 38
 Ion Ratio Lower Upper
 266 100
 268 96.6 52.6 79.0#
 264 86.2 51.8 77.8#



#16
 Phenanthrene
 Concen: 0.08 ng
 RT: 19.82 min Scan# 3182
 Delta R.T. -0.00 min
 Lab File: BE089636.D
 Acq: 19 Feb 2015 4:46

Tgt Ion: 178 Resp: 2738
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.1 22.7
 179 15.3 12.3 18.5

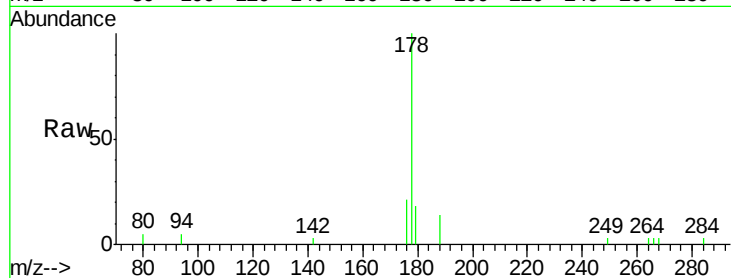




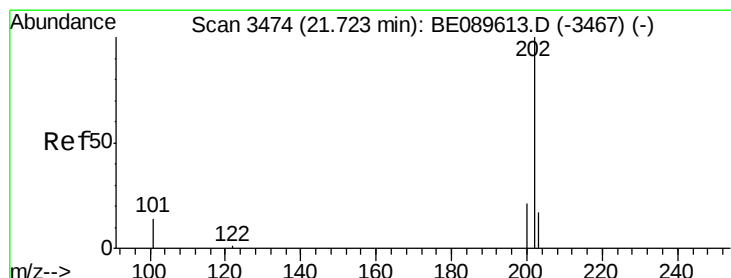
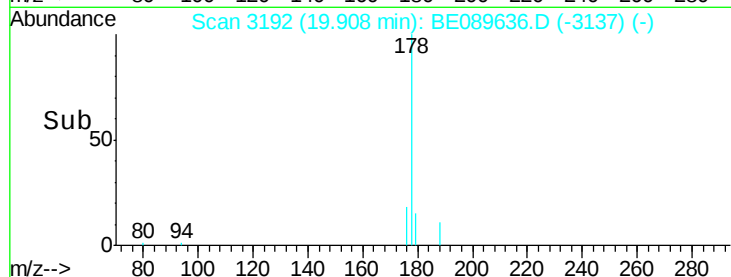
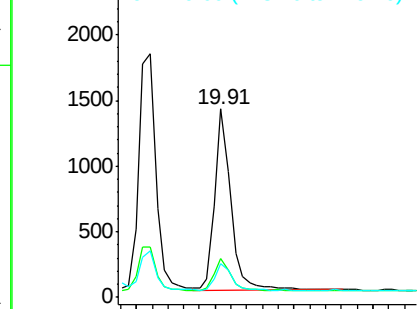
#17
 Anthracene
 Concen: 0.06 ng
 RT: 19.91 min Scan# 3192
 Delta R.T. -0.00 min
 Lab File: BE089636.D
 Acq: 19 Feb 2015 4:46

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-S

Tgt Ion:178 Resp: 1953
 Ion Ratio Lower Upper
 178 100
 176 18.6 14.6 22.0
 179 15.2 12.3 18.5

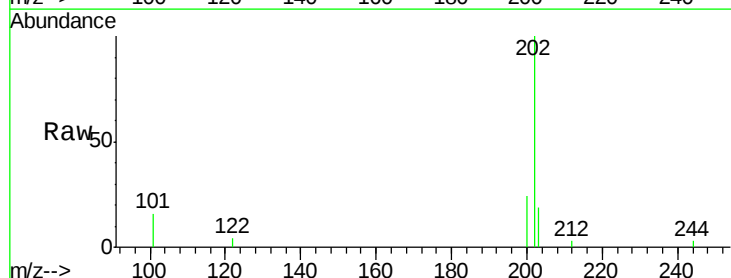


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

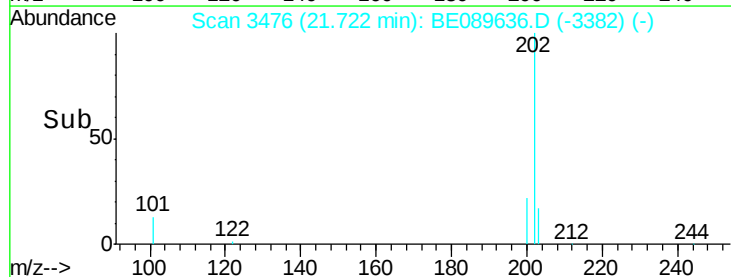
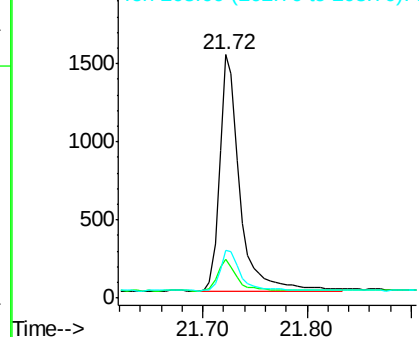


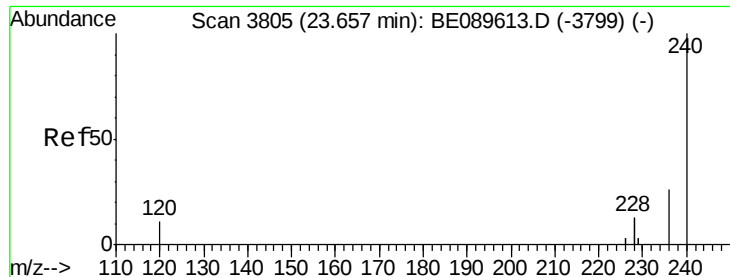
#18
 Fluoranthene
 Concen: 0.06 ng
 RT: 21.72 min Scan# 3476
 Delta R.T. -0.00 min
 Lab File: BE089636.D
 Acq: 19 Feb 2015 4:46

Tgt Ion:202 Resp: 2036
 Ion Ratio Lower Upper
 202 100
 101 13.0 10.4 15.6
 203 17.4 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# 3807

Delta R.T. 0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 4:46

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

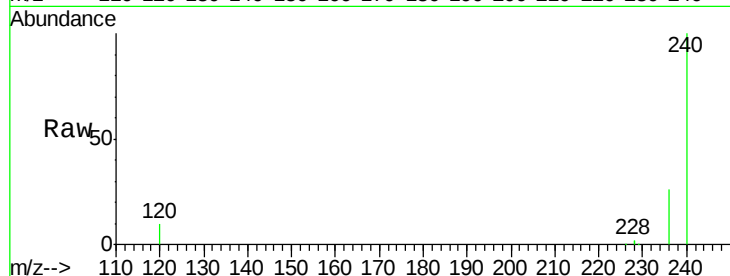
Tgt Ion:240 Resp: 134012

Ion Ratio Lower Upper

240 100

120 10.3 9.0 13.4

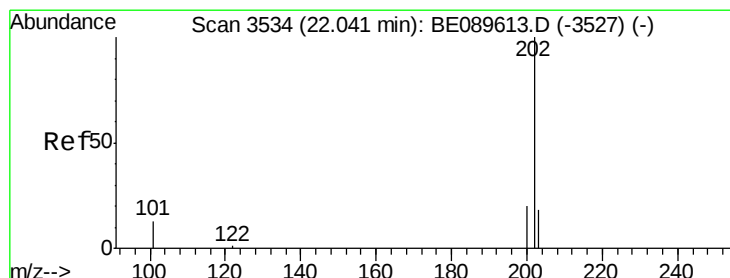
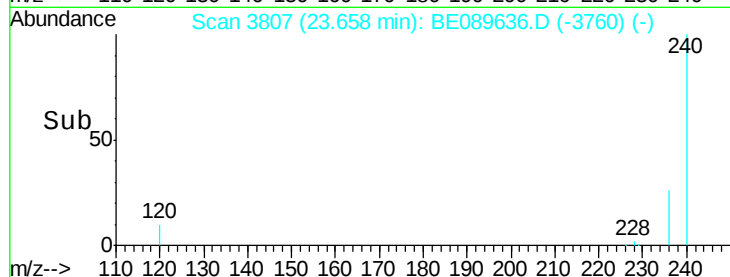
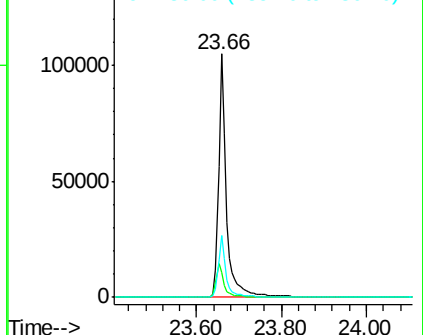
236 25.7 21.0 31.6



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: 0.07 ng

RT: 22.04 min Scan# 3536

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 4:46

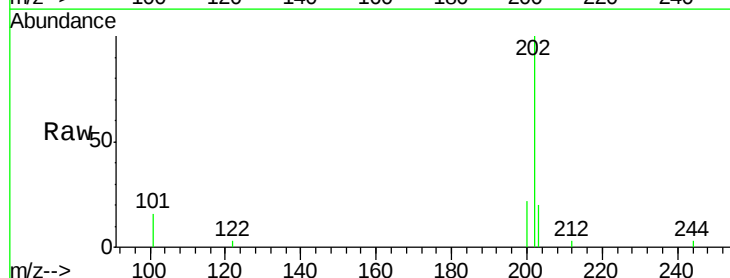
Tgt Ion:202 Resp: 2186

Ion Ratio Lower Upper

202 100

200 20.3 16.3 24.5

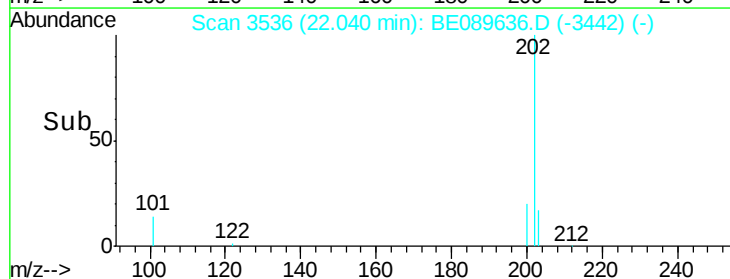
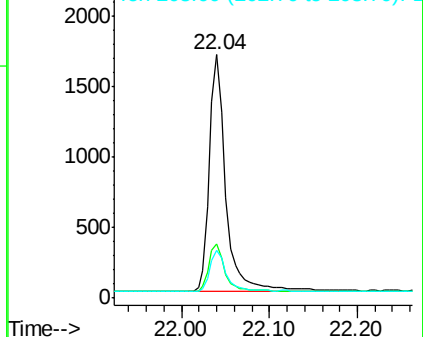
203 17.5 13.8 20.8

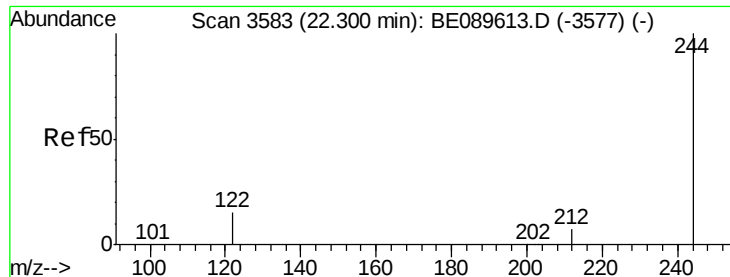


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 11.61 ng

RT: 22.31 min Scan# 3586

Delta R.T. 0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 4:46

Instrument :

BNA_E

ClientSampled :

MDL-05-S

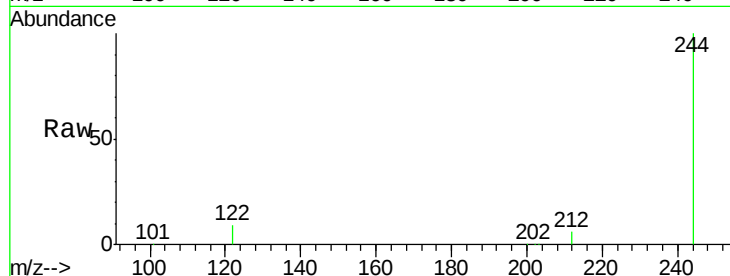
Tgt Ion:244 Resp: 223769

Ion Ratio Lower Upper

244 100

212 6.4 5.8 8.8

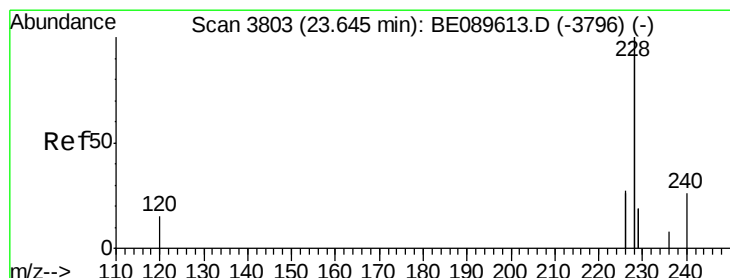
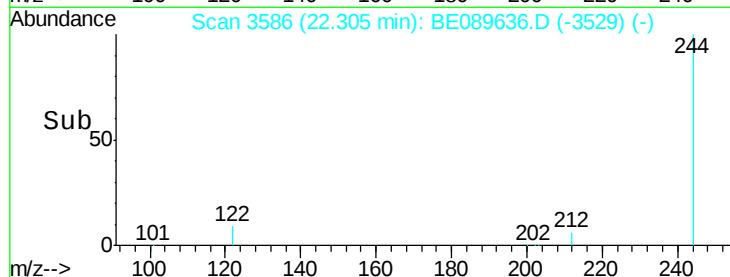
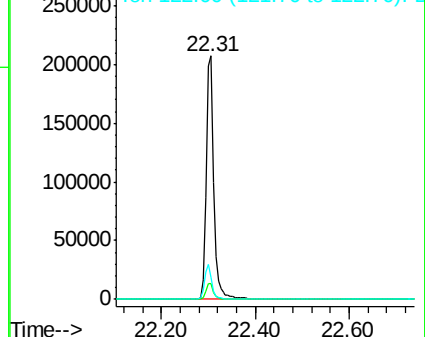
122 8.9 11.8 17.8#



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: 0.10 ng

RT: 23.69 min Scan# 3812

Delta R.T. 0.05 min

Lab File: BE089636.D

Acq: 19 Feb 2015 4:46

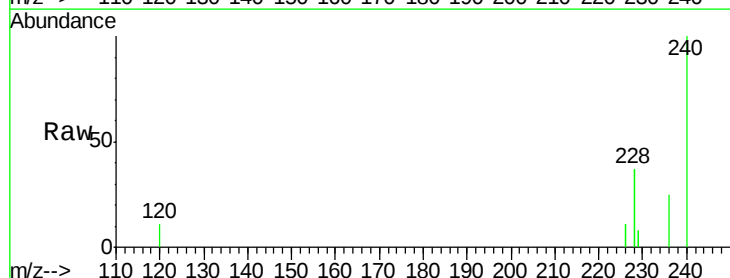
Tgt Ion:228 Resp: 11846

Ion Ratio Lower Upper

228 100

226 29.7 21.2 31.8

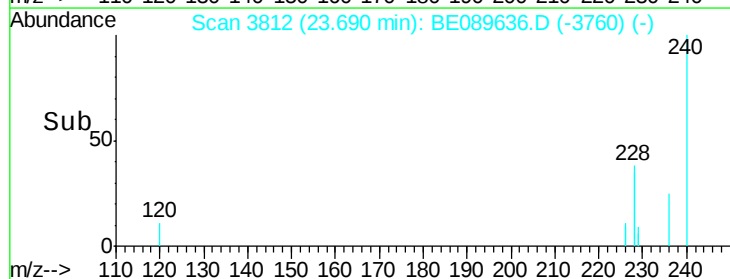
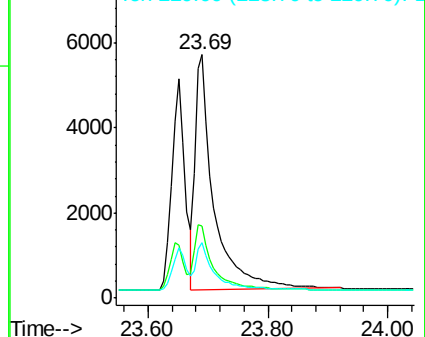
229 22.8 15.2 22.8

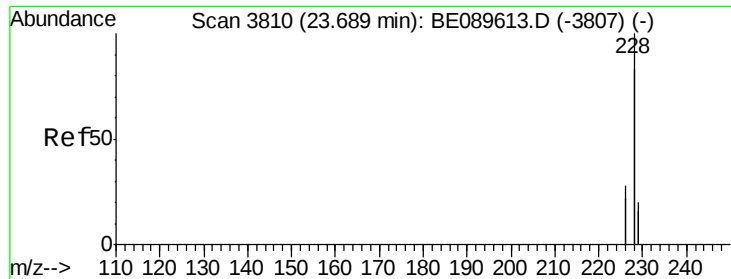


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.09 ng

RT: 23.69 min Scan# 3812

Delta R.T. 0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 4:46

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

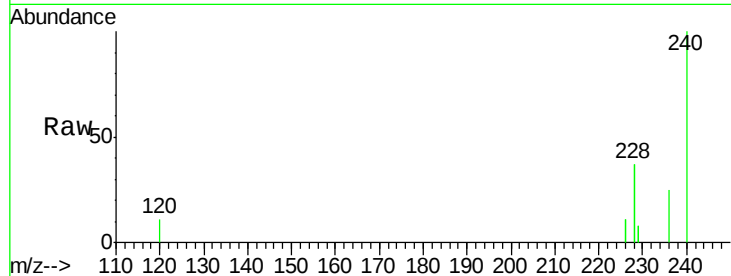
Tgt Ion:228 Resp: 12006

Ion Ratio Lower Upper

228 100

226 29.7 22.2 33.4

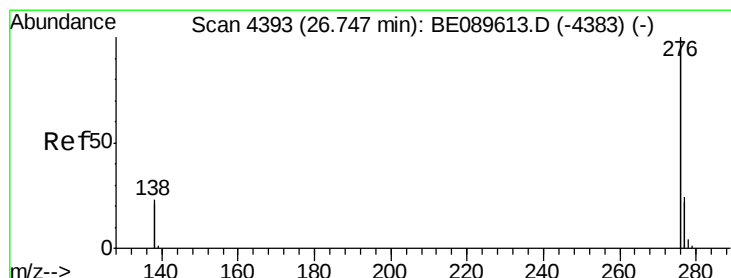
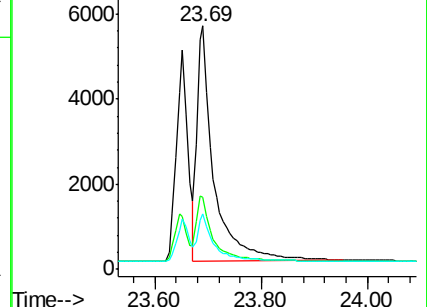
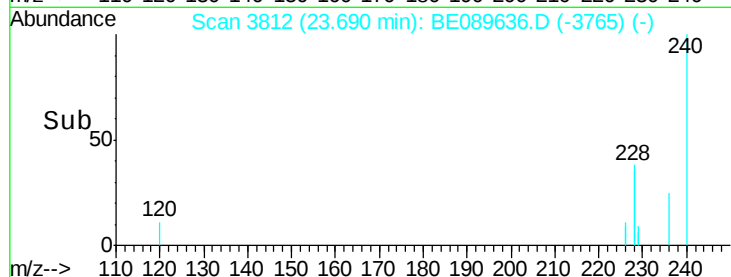
229 22.8 16.0 24.0



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: 26.74 min Scan# 4394

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 4:46

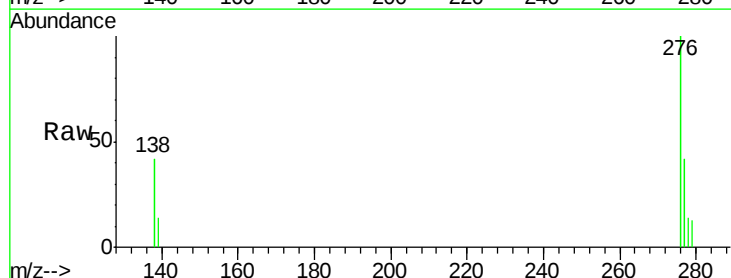
Tgt Ion:276 Resp: 1957

Ion Ratio Lower Upper

276 100

138 24.0 21.4 32.2

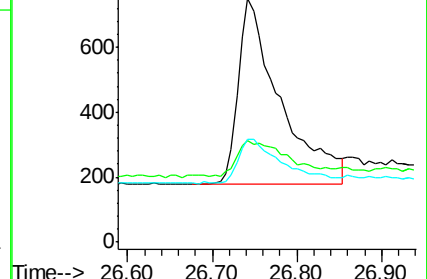
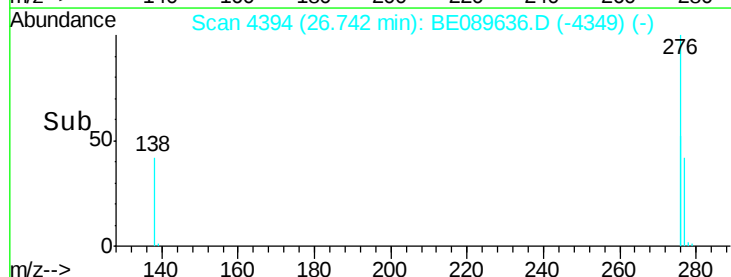
277 24.5 19.9 29.9

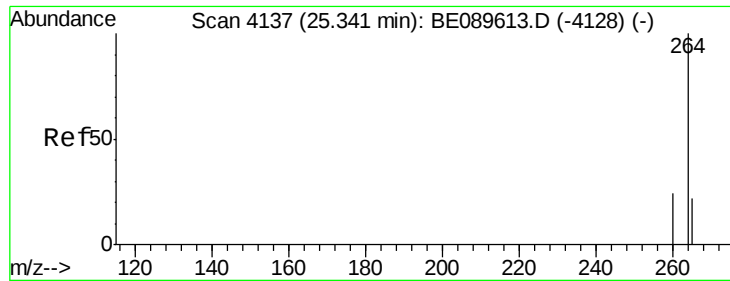


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

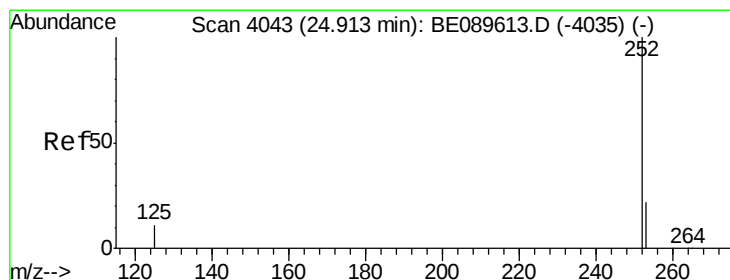
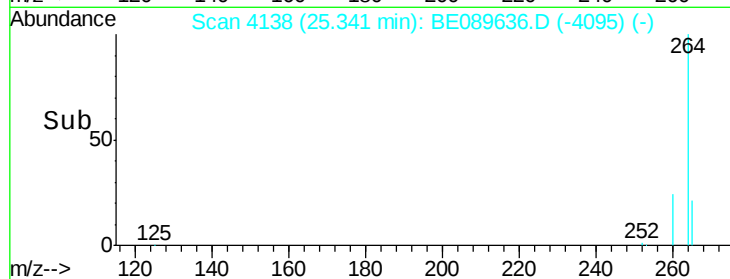
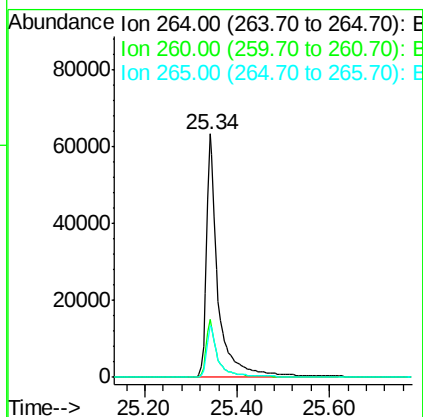
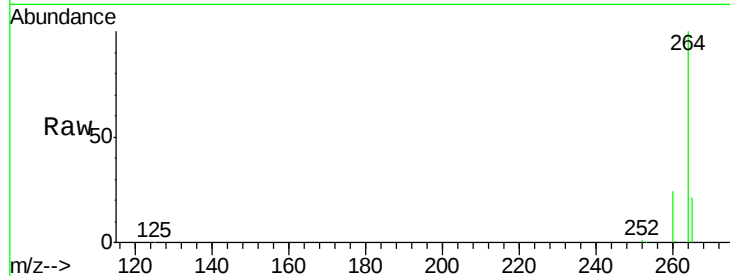




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4138
 Delta R.T. -0.00 min
 Lab File: BE089636.D
 Acq: 19 Feb 2015 4:46

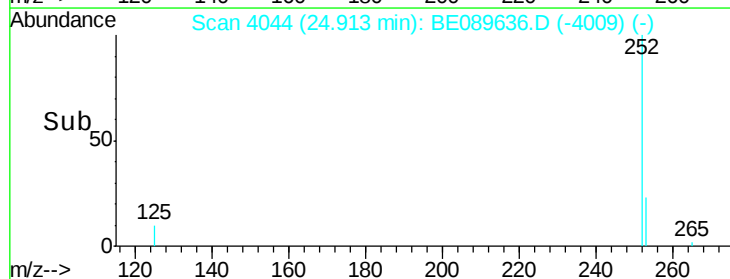
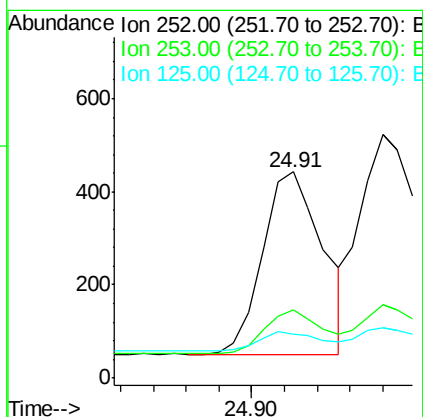
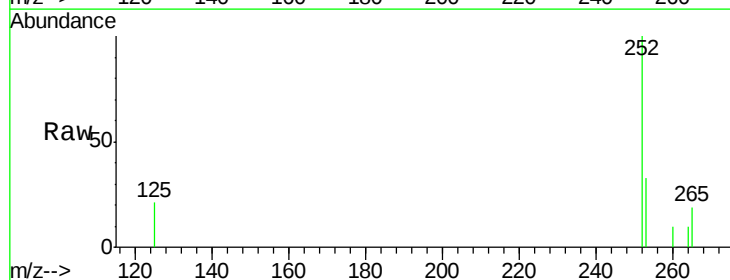
Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-S

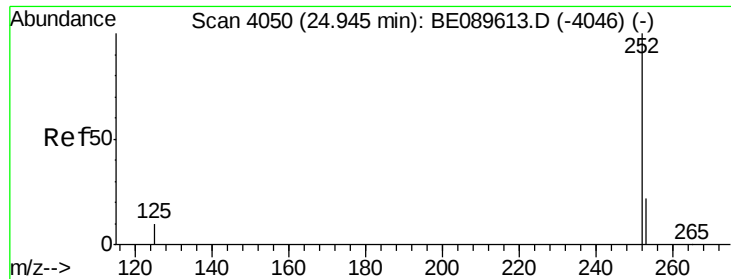
Tgt Ion: 264 Resp: 110292
 Ion Ratio Lower Upper
 264 100
 260 24.1 19.0 28.6
 265 21.2 17.4 26.0



#26
 Benzo(b)fluoranthene
 Concen: 0.29 ng
 RT: 24.91 min Scan# 4044
 Delta R.T. 0.00 min
 Lab File: BE089636.D
 Acq: 19 Feb 2015 4:46

Tgt Ion: 252 Resp: 504
 Ion Ratio Lower Upper
 252 100
 253 32.7 17.6 26.4#
 125 21.2 8.8 13.2#





#27

Benzo(k)fluoranthene

Concen: 0.03 ng

RT: 24.94 min Scan# 4050

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 4:46

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

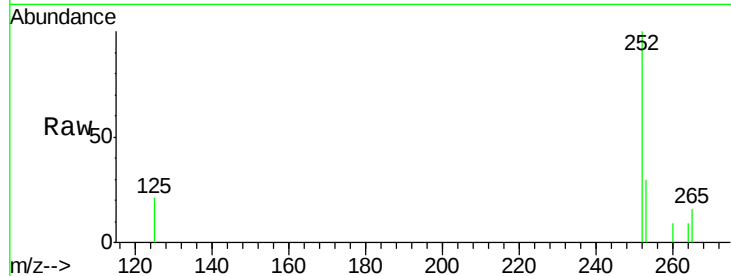
Tgt Ion:252 Resp: 996

Ion Ratio Lower Upper

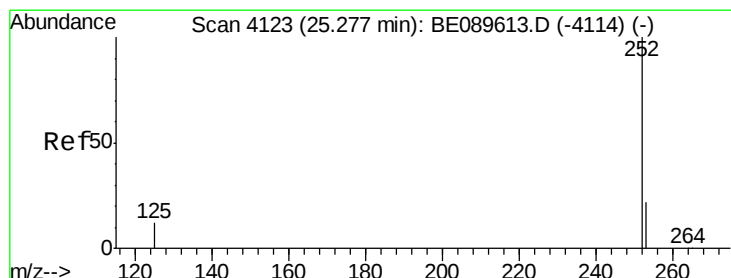
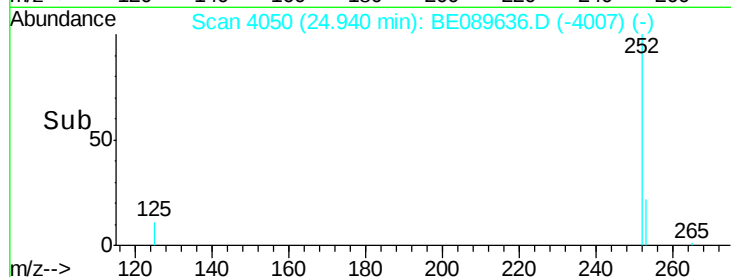
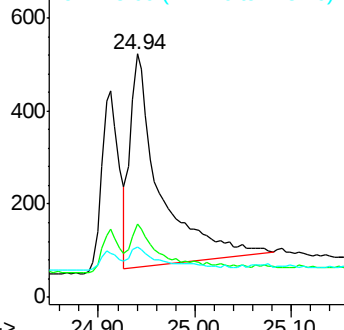
252 100

253 30.0 17.7 26.5#

125 20.7 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# 4123

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 4:46

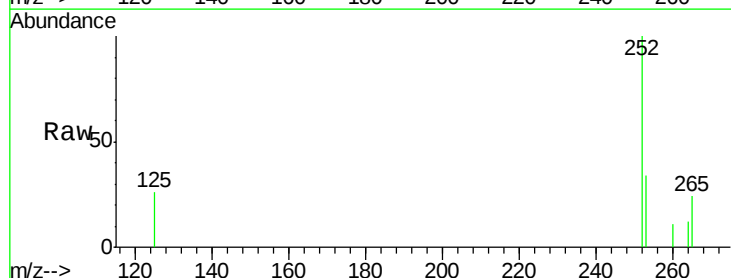
Tgt Ion:252 Resp: 524

Ion Ratio Lower Upper

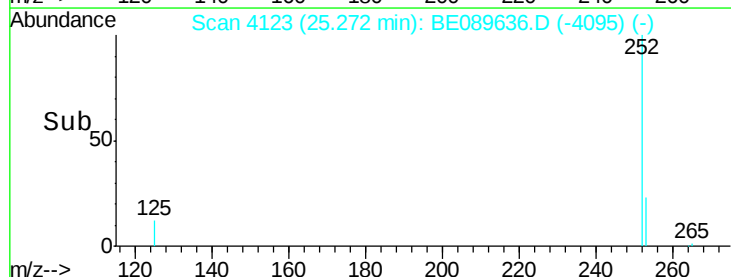
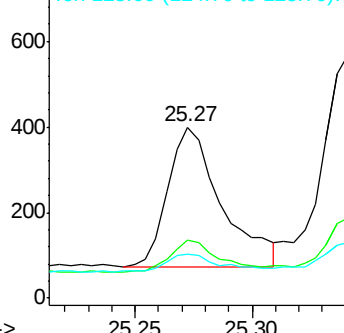
252 100

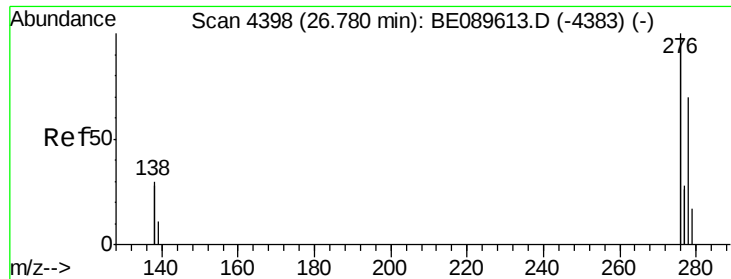
253 34.3 18.1 27.1#

125 25.5 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: 0.25 ng

RT: 26.77 min Scan# 4399

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 4:46

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

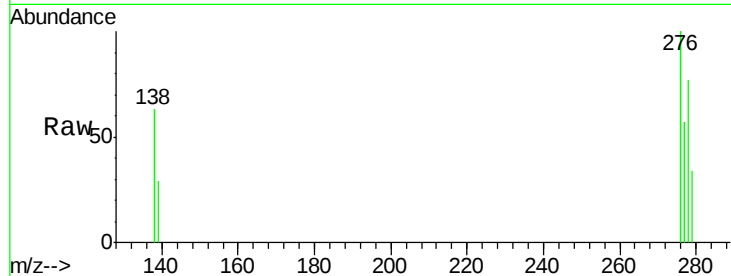
Tgt Ion: 278 Resp: 372

Ion Ratio Lower Upper

278 100

139 37.5 13.7 20.5#

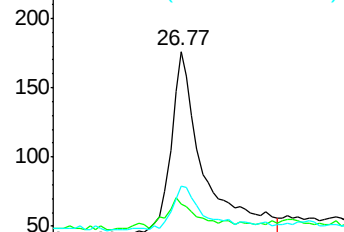
279 44.9 19.7 29.5#



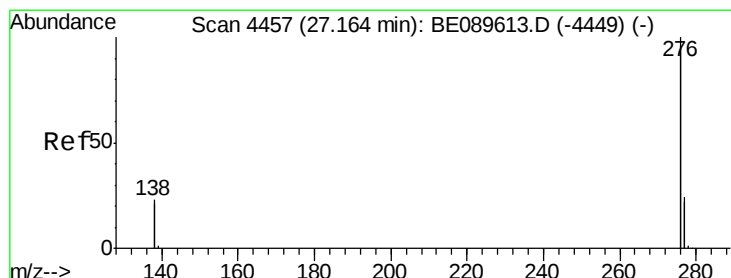
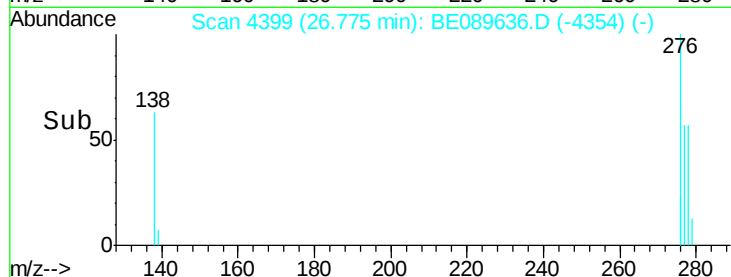
Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->



#30

Benzo(g,h,i)perylene

Concen: 0.16 ng

RT: 27.16 min Scan# 4458

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 4:46

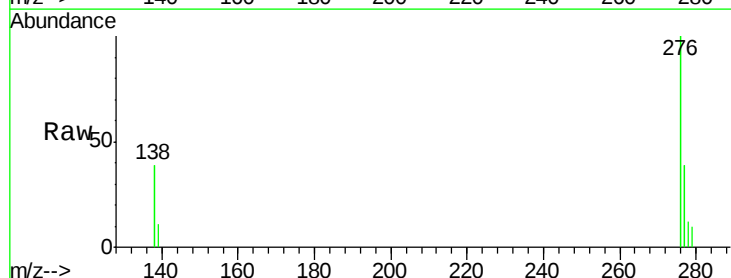
Tgt Ion: 276 Resp: 2729

Ion Ratio Lower Upper

276 100

277 39.5 19.1 28.7#

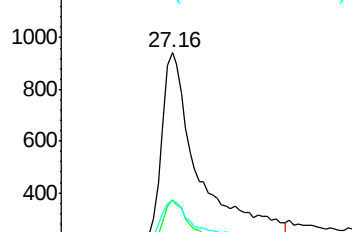
138 38.9 18.7 28.1#



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



Time-->

