

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089476.D
 Acq On : 31 Jan 2015 20:02
 Operator : TP/IZ
 Sample : MDL-01-W
 Misc : MDL-WATER-0.2/0.4
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 03:40:45 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE013015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 31 05:05:18 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.58	152	66840	5.00	ng	0.00
2) Naphthalene-d8	12.50	136	271708	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	132480	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	209705	5.00	ng	0.00
16) Chrysene-d12	23.84	240	155253	5.00	ng	0.00
22) Perylene-d12	25.56	264	127100	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	181376	10.08	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	289188	8.29	ng	0.00
18) Terphenyl-d14	22.48	244	237335	10.21	ng	0.00

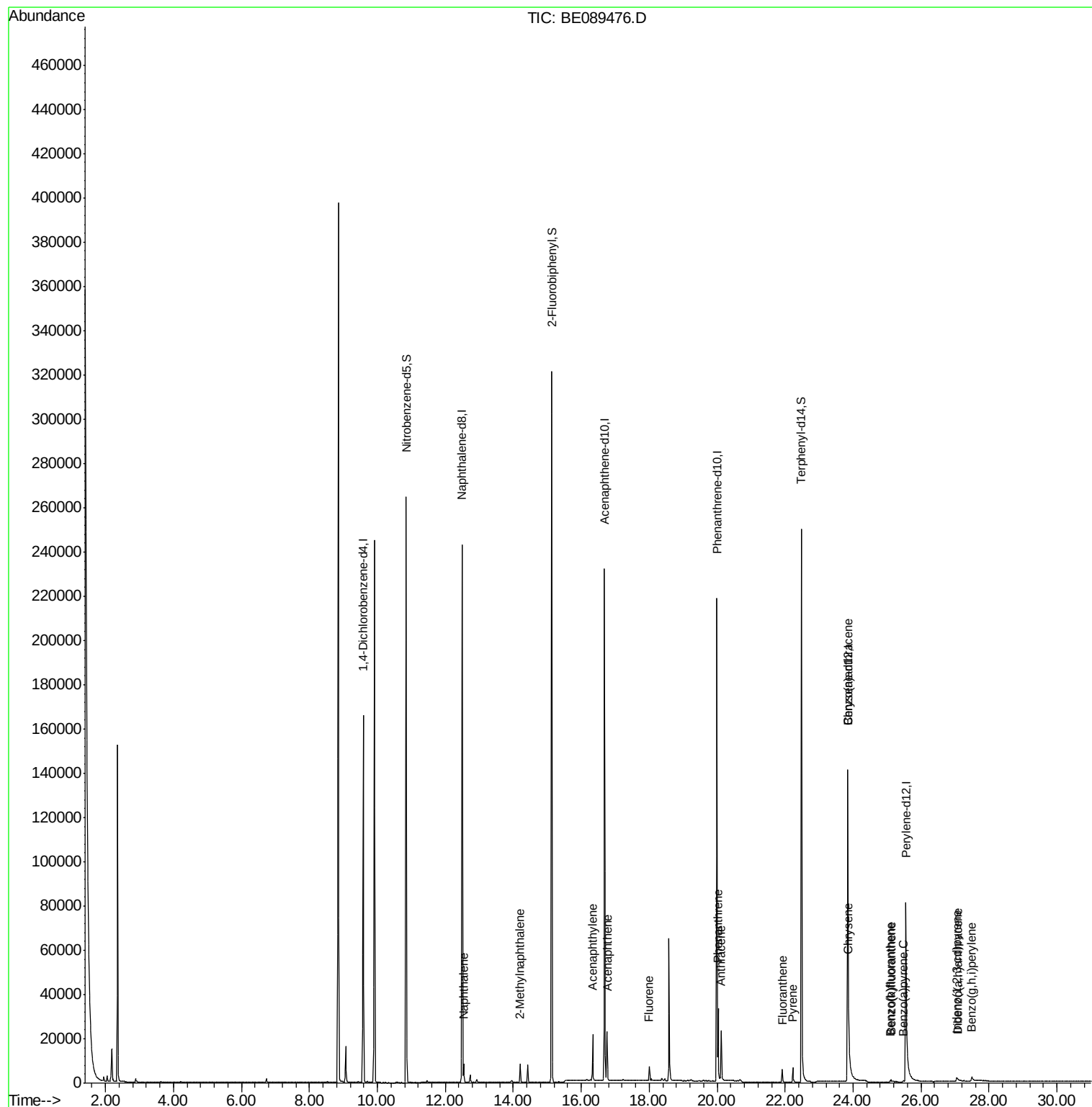
Target Compounds						Qvalue
4) Naphthalene	12.54	128	9540	0.15	ng	99
5) 2-Methylnaphthalene	14.20	142	5344	0.14	ng	99
8) Acenaphthylene	16.33	152	27879	0.12	ng	99
9) Acenaphthene	16.76	154	4761	0.13	ng	96
10) Fluorene	18.00	166	5028	0.13	ng	98
12) Pentachlorophenol	19.66	266	133	Below Cal	#	84
13) Phenanthrene	20.03	178	31160	0.15	ng	98
14) Anthracene	20.11	178	24705	0.13	ng	98
15) Fluoranthene	21.91	202	5321	0.12	ng	99
17) Pyrene	22.22	202	6038	0.15	ng	99
19) Benzo(a)anthracene	23.83	228	12840	0.10	ng	97
20) Chrysene	23.87	228	24700	0.17	ng	# 95
21) Indeno(1,2,3-cd)pyrene	27.05	276	3785	0.03	ng	97
23) Benzo(b)fluoranthene	25.09	252	774	0.22	ng	# 79
24) Benzo(k)fluoranthene	25.12	252	1421	0.04	ng	# 81
25) Benzo(a)pyrene	25.48	252	908	0.16	ng	# 66
26) Dibenzo(a,h)anthracene	27.08	278	644	0.16	ng	# 53
27) Benzo(g,h,i)perylene	27.50	276	4816	0.05	ng	# 72

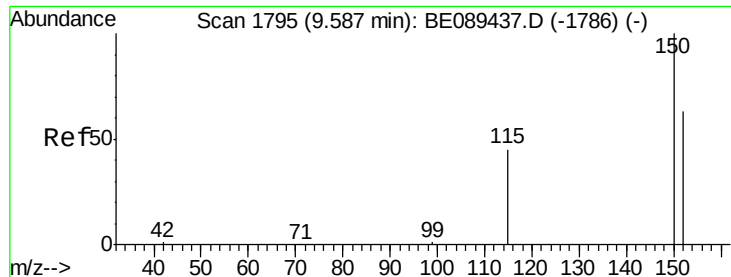
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.58 min Scan# 1795

Delta R.T. -0.00 min

Lab File: BE089476.D

Acq: 31 Jan 2015 20:02

Instrument :

BNA_E

ClientSampleId :

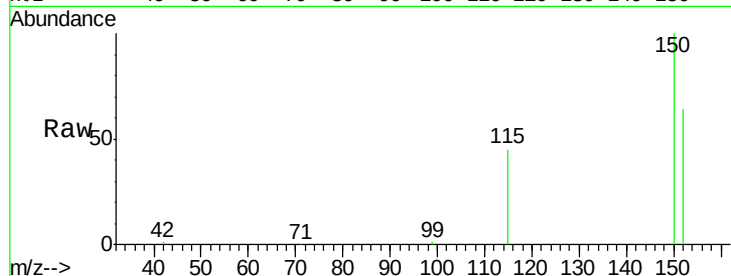
Tgt Ion:152 Resp: 66840

Ion Ratio Lower Upper

152 100

150 156.7 127.2 190.8

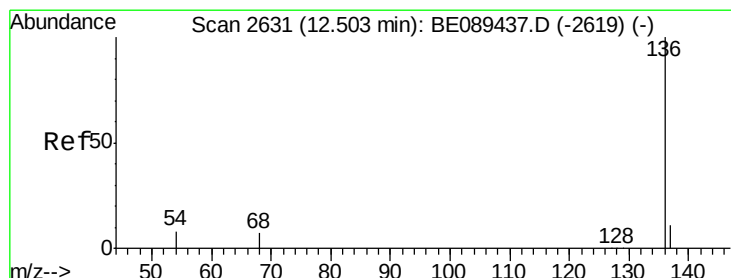
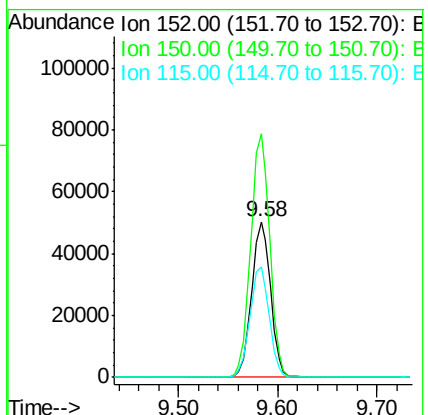
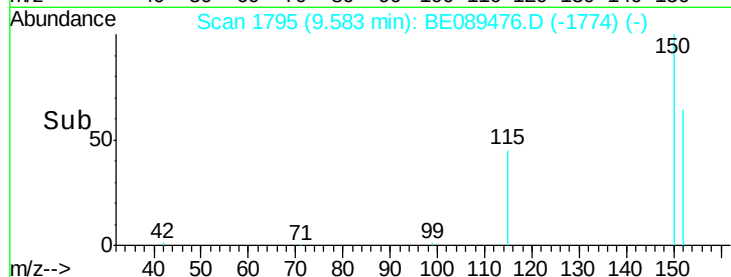
115 70.9 57.5 86.3



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

Naphthalene-d8

Concen: 5.00 ng

RT: 12.50 min Scan# 2630

Delta R.T. -0.01 min

Lab File: BE089476.D

Acq: 31 Jan 2015 20:02

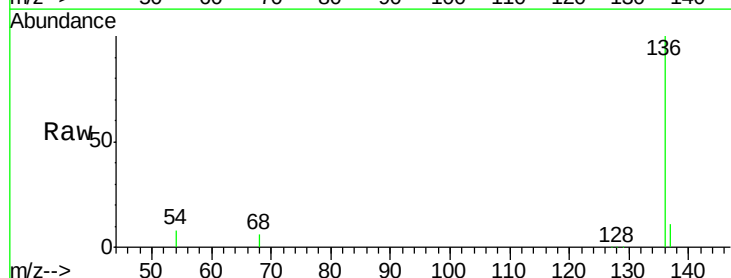
Tgt Ion:136 Resp: 271708

Ion Ratio Lower Upper

136 100

137 11.1 8.7 13.1

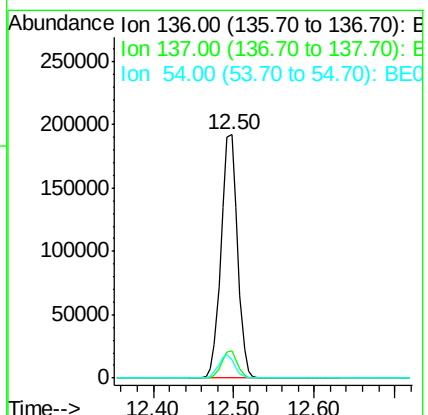
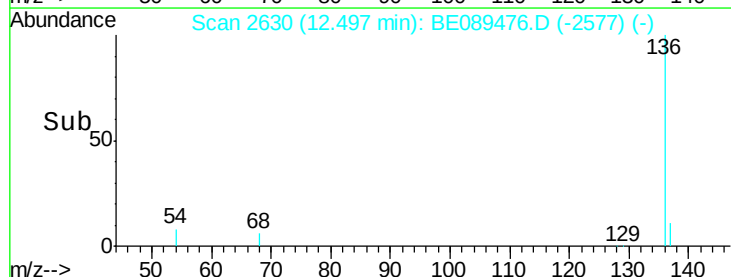
54 7.6 6.6 10.0

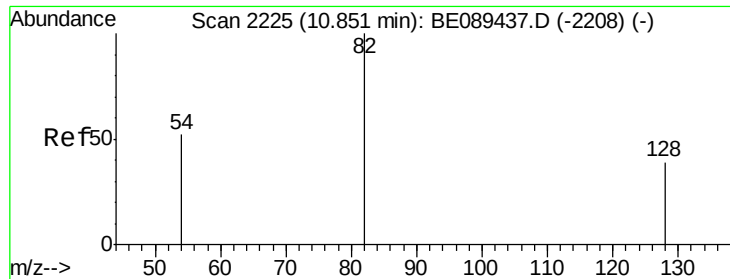


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 10.08 ng

RT: 10.85 min Scan# 2224

Delta R.T. -0.00 min

Lab File: BE089476.D

Acq: 31 Jan 2015 20:02

Instrument :

BNA_E

ClientSampleId :

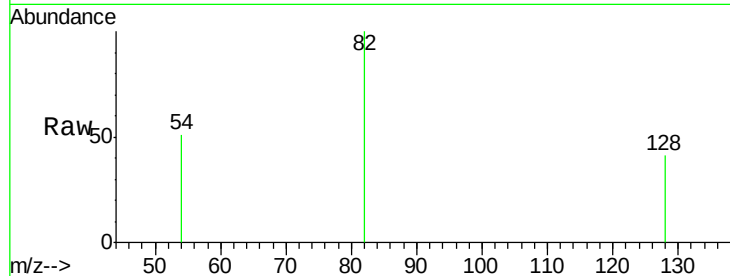
Tgt Ion: 82 Resp: 181376

Ion Ratio Lower Upper

82 100

128 40.7 31.2 46.8

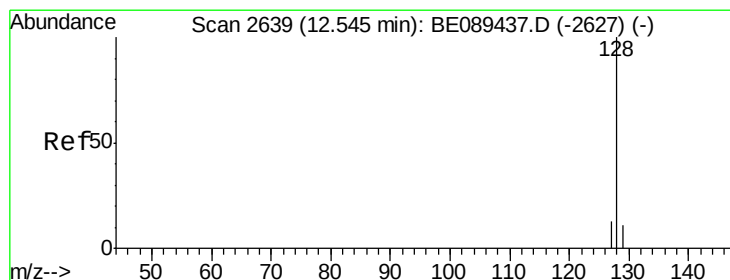
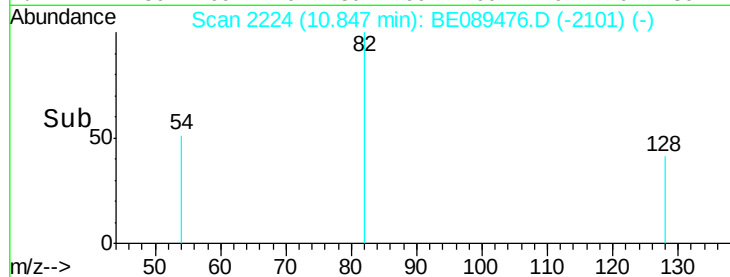
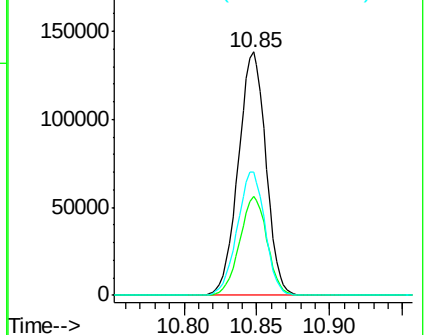
54 50.8 41.9 62.9



Abundance Ion 82.00 (81.70 to 82.70): BE089437.D (-2208) (-)

Ion 128.00 (127.70 to 128.70): BE089437.D (-2208) (-)

Ion 54.00 (53.70 to 54.70): BE089437.D (-2208) (-)



#4

Naphthalene

Concen: 0.15 ng

RT: 12.54 min Scan# 2638

Delta R.T. -0.01 min

Lab File: BE089476.D

Acq: 31 Jan 2015 20:02

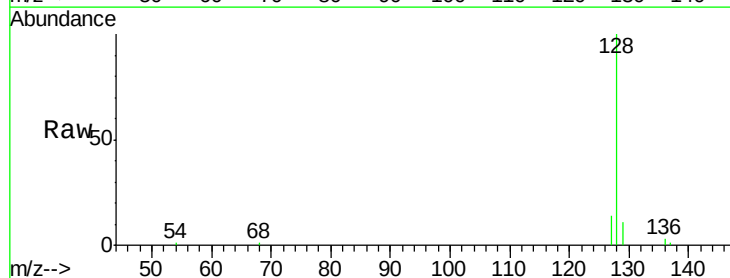
Tgt Ion: 128 Resp: 9540

Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

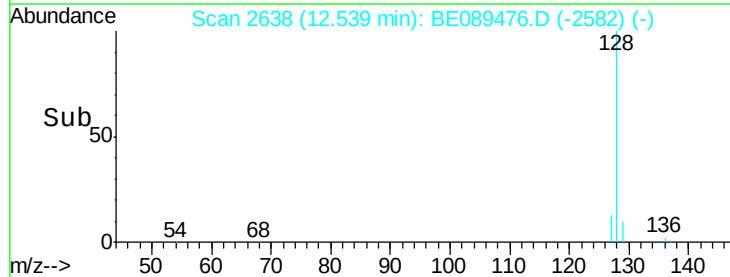
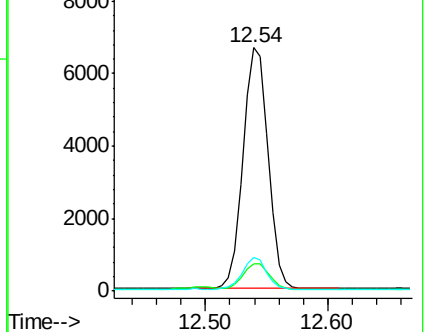
127 13.6 10.6 16.0

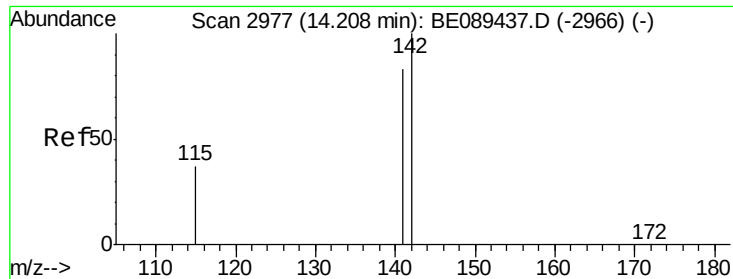


Abundance Ion 128.00 (127.70 to 128.70): BE089437.D (-2627) (-)

Ion 129.00 (128.70 to 129.70): BE089437.D (-2627) (-)

Ion 127.00 (126.70 to 127.70): BE089437.D (-2627) (-)





#5

2-Methylnaphthalene

Concen: 0.14 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.01 min

Lab File: BE089476.D

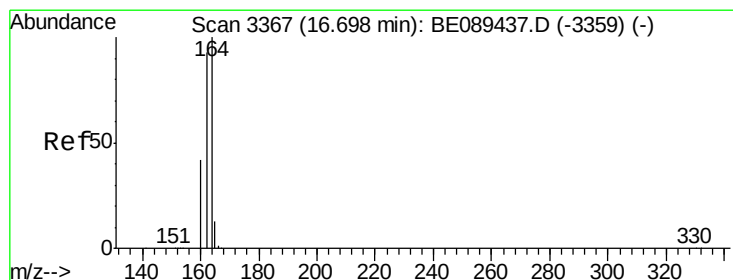
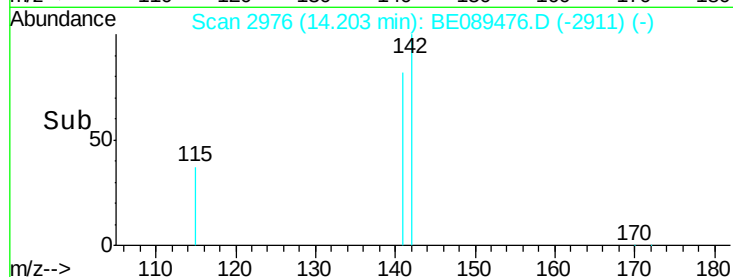
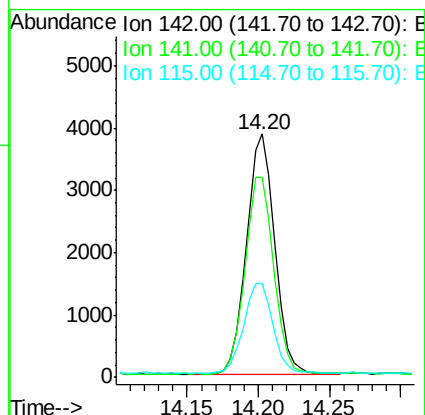
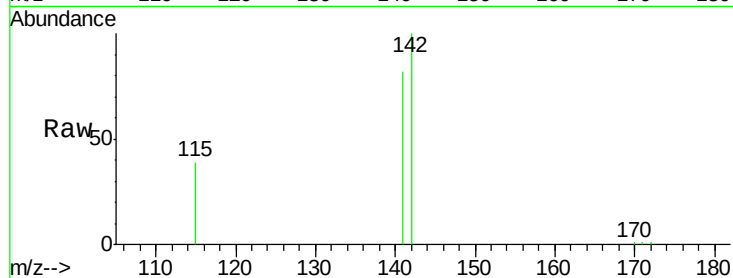
Acq: 31 Jan 2015 20:02

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	5344
Ion	Ratio	Lower	Upper
142	100		
141	82.0	66.1	99.1
115	38.6	29.9	44.9



#6

Acenaphthene-d10

Concen: 5.00 ng

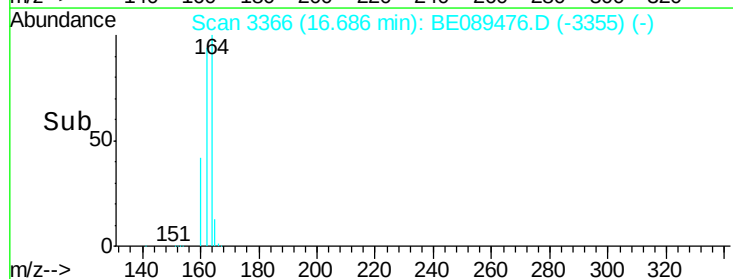
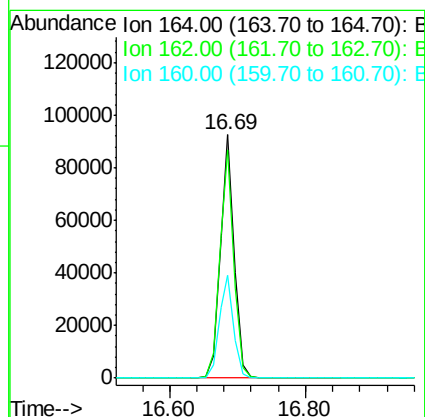
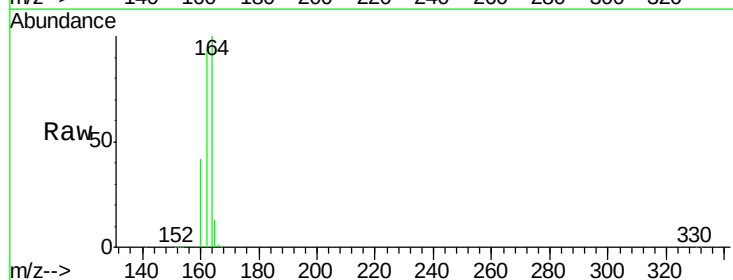
RT: 16.69 min Scan# 3366

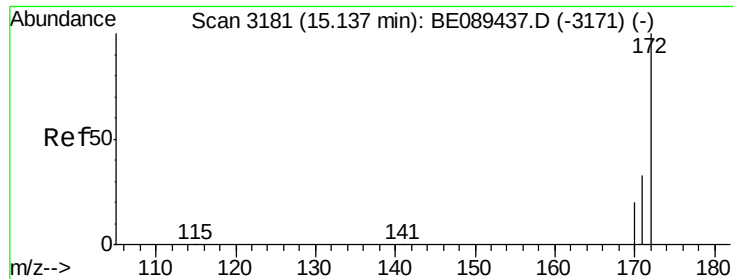
Delta R.T. -0.01 min

Lab File: BE089476.D

Acq: 31 Jan 2015 20:02

Tgt Ion:	164	Resp:	132480
Ion	Ratio	Lower	Upper
164	100		
162	93.6	74.7	112.1
160	42.3	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 8.29 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.01 min

Lab File: BE089476.D

Acq: 31 Jan 2015 20:02

Instrument :

BNA_E

ClientSampleId :

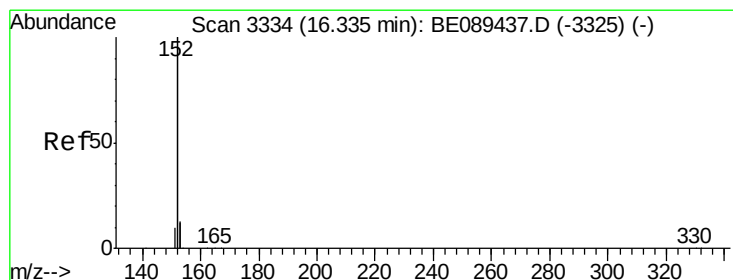
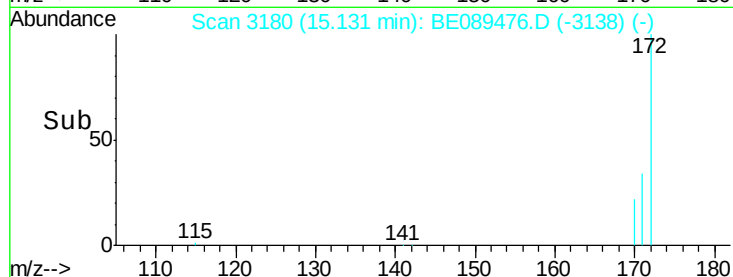
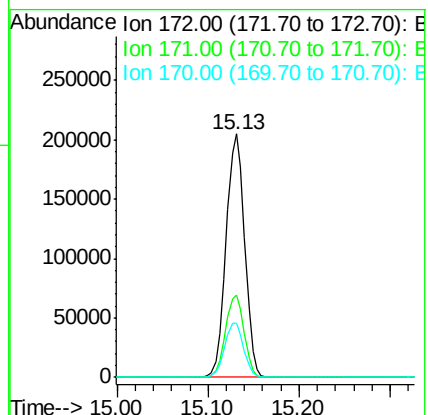
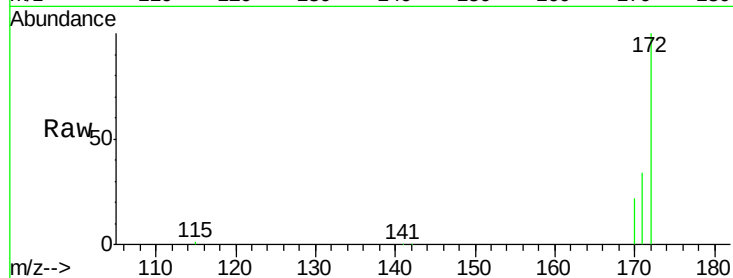
Tgt Ion:172 Resp: 289188

Ion Ratio Lower Upper

172 100

171 33.8 26.2 39.4

170 22.4 16.5 24.7



#8

Acenaphthylene

Concen: 0.12 ng

RT: 16.33 min Scan# 3334

Delta R.T. -0.00 min

Lab File: BE089476.D

Acq: 31 Jan 2015 20:02

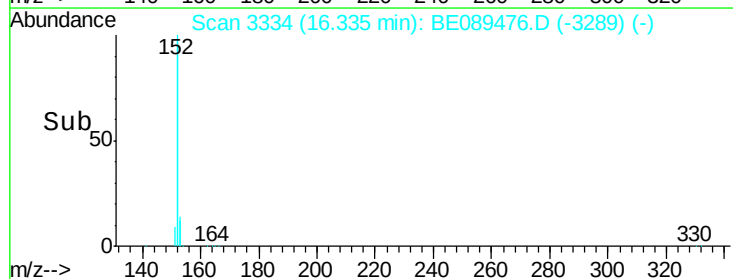
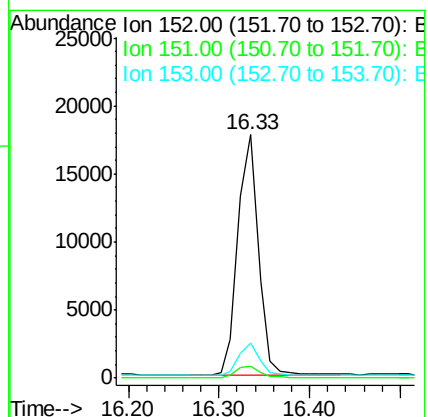
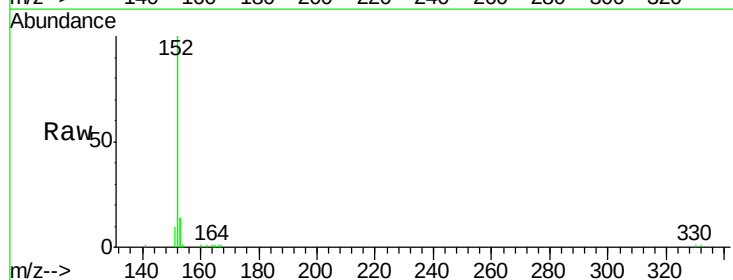
Tgt Ion:152 Resp: 27879

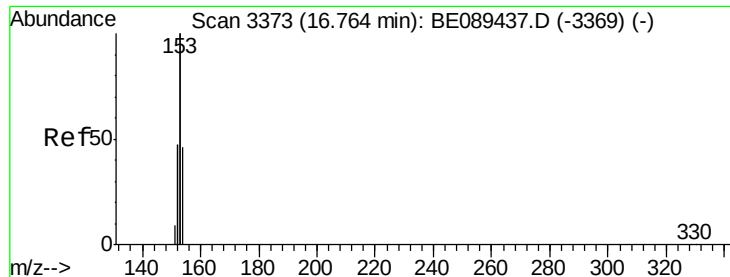
Ion Ratio Lower Upper

152 100

151 5.0 3.9 5.9

153 13.2 10.3 15.5





#9

Acenaphthene

Concen: 0.13 ng

RT: 16.76 min Scan# 3373

Delta R.T. -0.00 min

Lab File: BE089476.D

Acq: 31 Jan 2015 20:02

Instrument :

BNA_E

ClientSampleId :

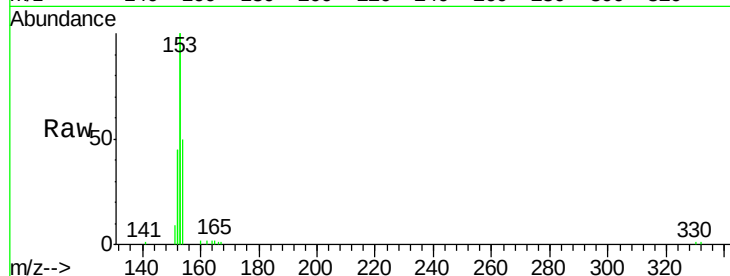
Tgt Ion:154 Resp: 4761

Ion Ratio Lower Upper

154 100

153 428.0 342.3 513.5

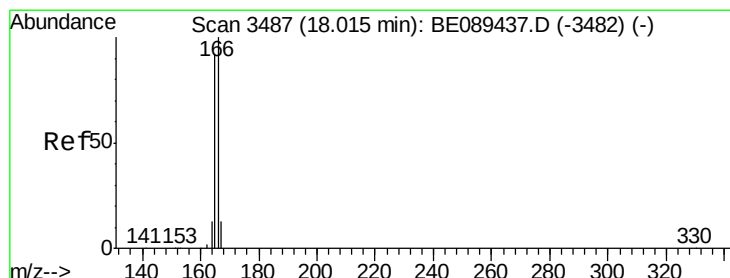
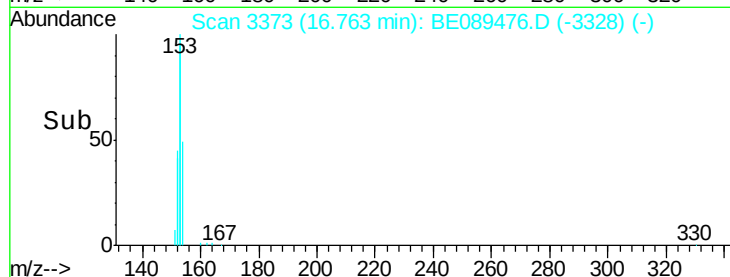
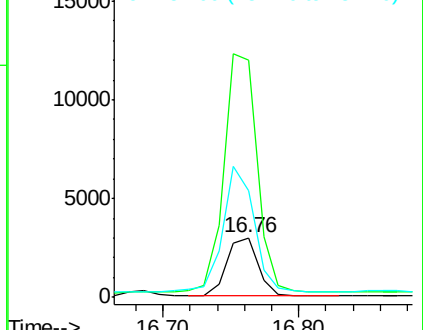
152 226.3 165.5 248.3



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



#10

Fluorene

Concen: 0.13 ng

RT: 18.00 min Scan# 3486

Delta R.T. -0.01 min

Lab File: BE089476.D

Acq: 31 Jan 2015 20:02

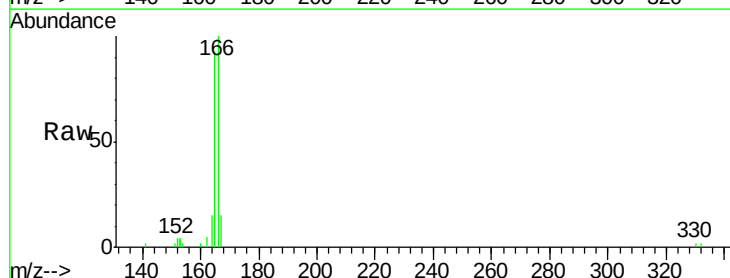
Tgt Ion:166 Resp: 5028

Ion Ratio Lower Upper

166 100

165 91.2 74.4 111.6

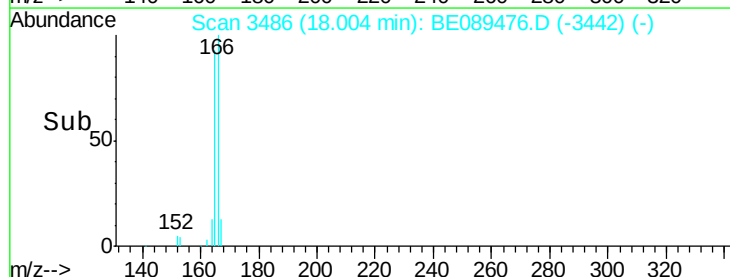
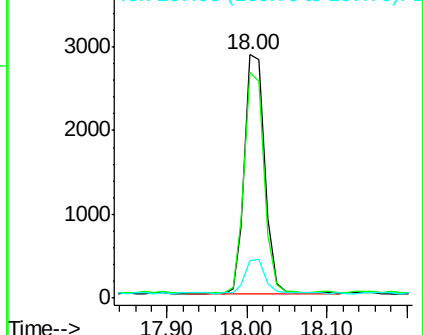
167 13.8 10.6 15.8

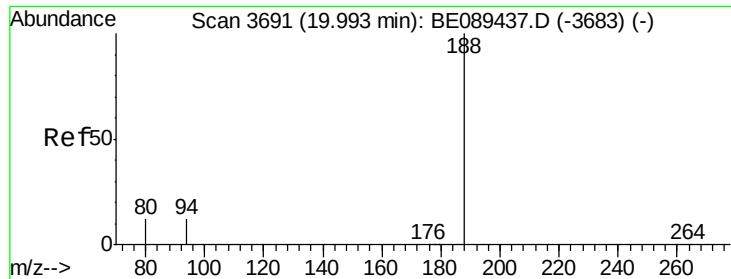


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

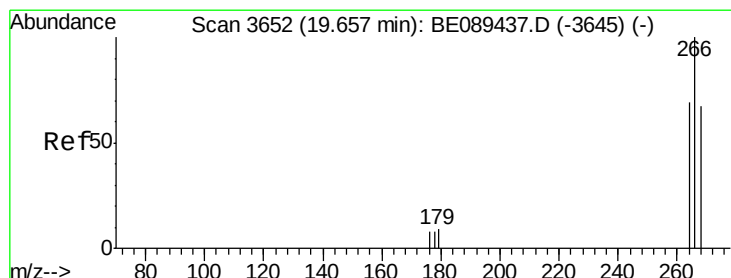
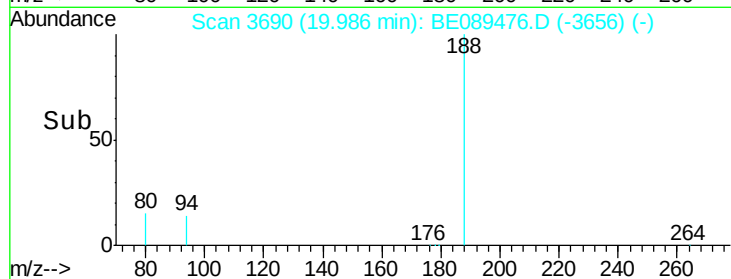
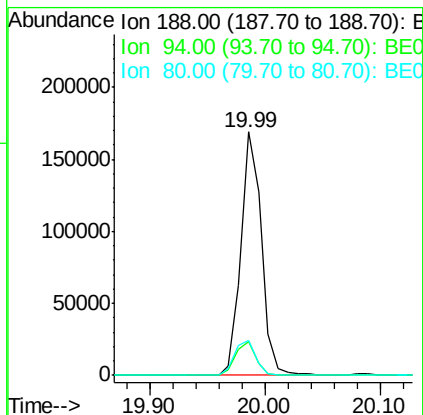
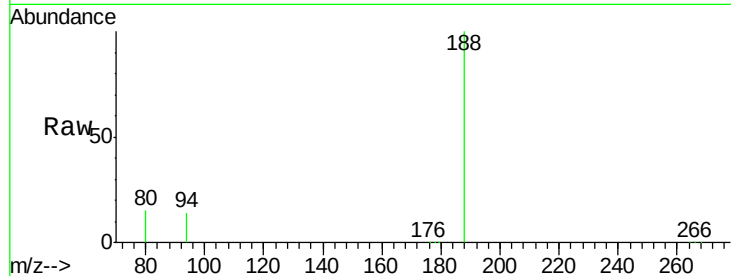




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3690
Delta R.T. -0.01 min
Lab File: BE089476.D
Acq: 31 Jan 2015 20:02

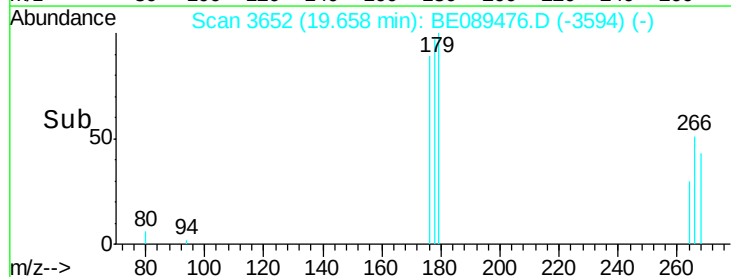
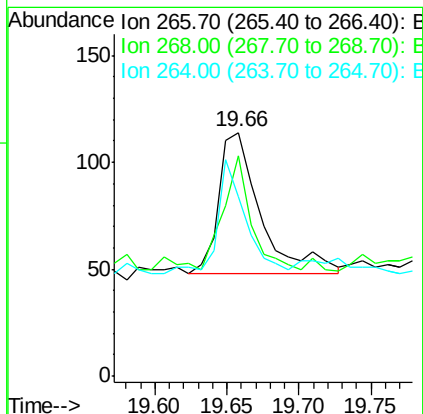
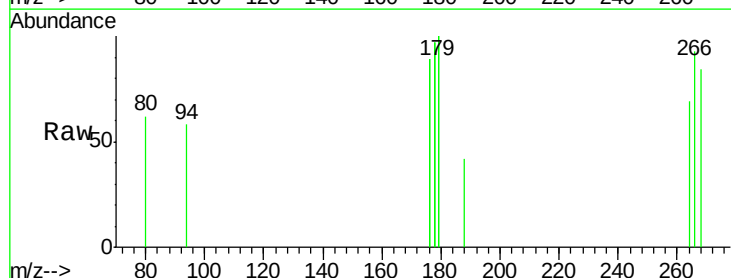
Instrument :
BNA_E
ClientSampleId :

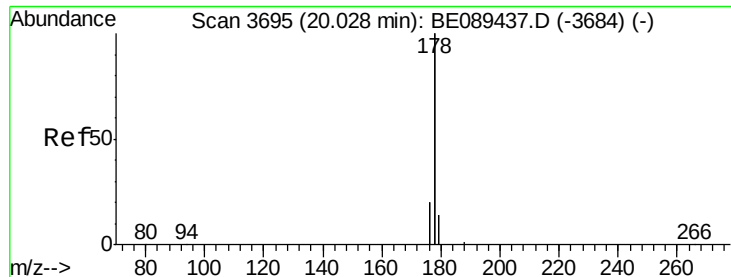
Tgt Ion:188 Resp: 209705
Ion Ratio Lower Upper
188 100
94 14.0 9.4 14.0
80 14.6 9.3 13.9#



#12
Pentachlorophenol
Concen: Below Cal
RT: 19.66 min Scan# 3652
Delta R.T. 0.00 min
Lab File: BE089476.D
Acq: 31 Jan 2015 20:02

Tgt Ion:266 Resp: 133
Ion Ratio Lower Upper
266 100
268 90.4 54.2 81.4#
264 73.7 56.2 84.2





#13

Phenanthrene

Concen: 0.15 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089476.D

Acq: 31 Jan 2015 20:02

Instrument :

BNA_E

ClientSampleId :

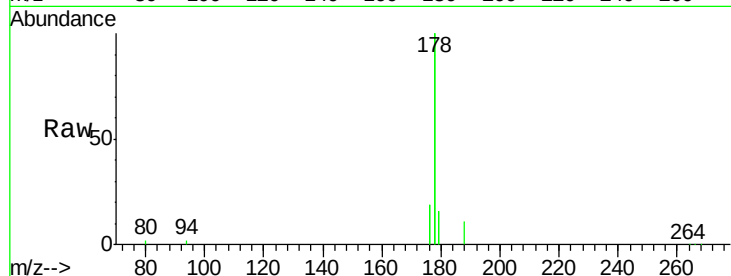
Tgt Ion:178 Resp: 31160

Ion Ratio Lower Upper

178 100

176 19.3 15.1 22.7

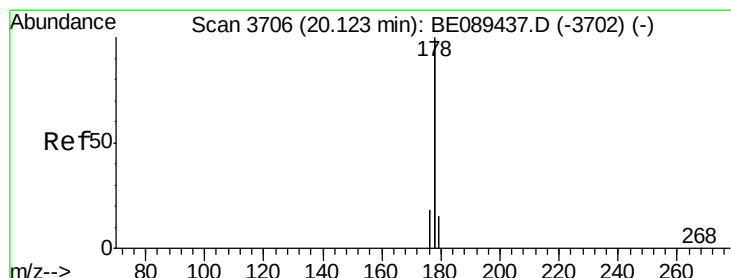
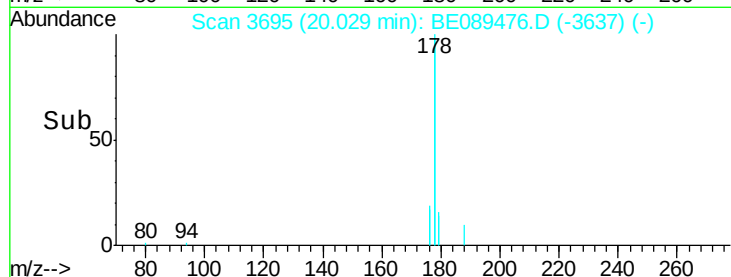
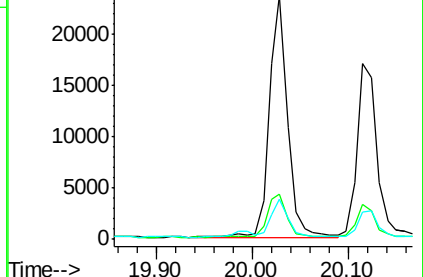
179 17.1 12.3 18.5



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



#14

Anthracene

Concen: 0.13 ng

RT: 20.11 min Scan# 3705

Delta R.T. -0.01 min

Lab File: BE089476.D

Acq: 31 Jan 2015 20:02

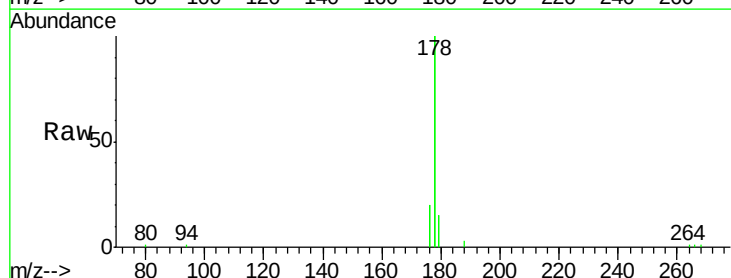
Tgt Ion:178 Resp: 24705

Ion Ratio Lower Upper

178 100

176 17.5 14.6 22.0

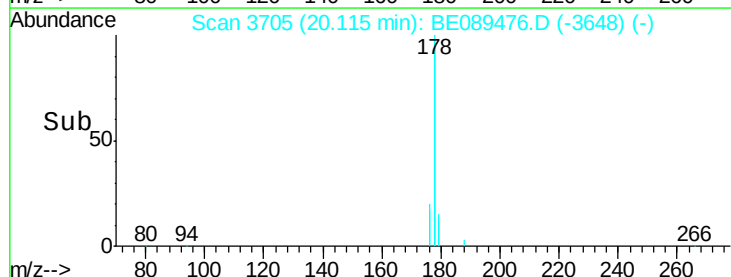
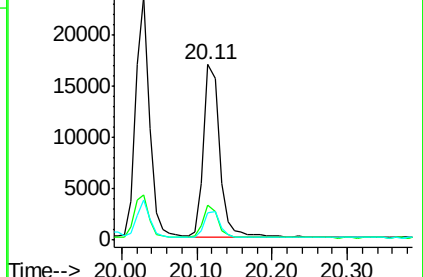
179 14.4 12.2 18.2

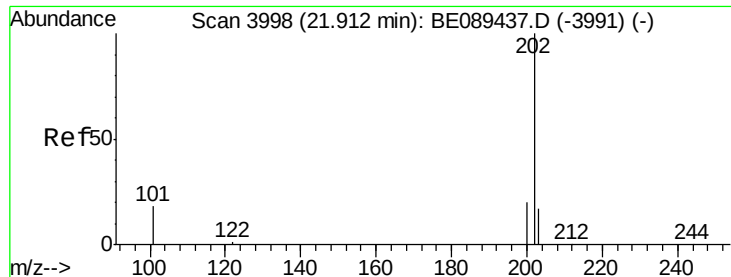


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

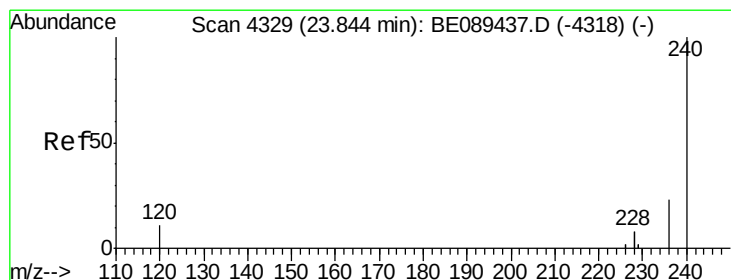
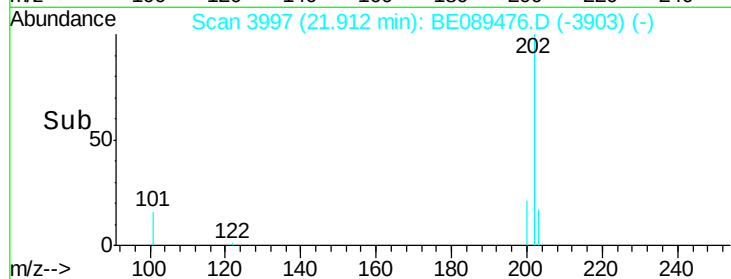
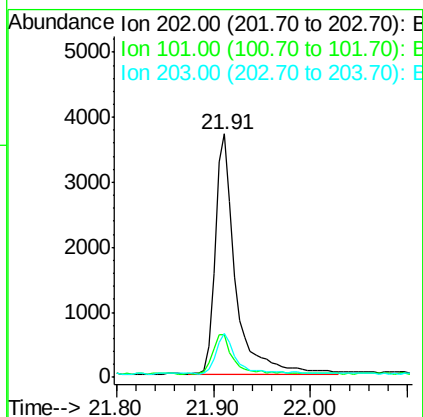
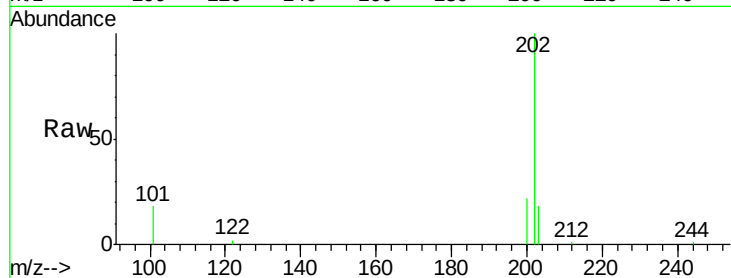




#15
Fluoranthene
Concen: 0.12 ng
RT: 21.91 min Scan# 3997
Delta R.T. -0.00 min
Lab File: BE089476.D
Acq: 31 Jan 2015 20:02

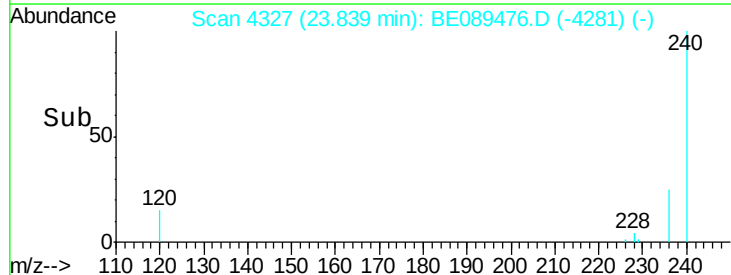
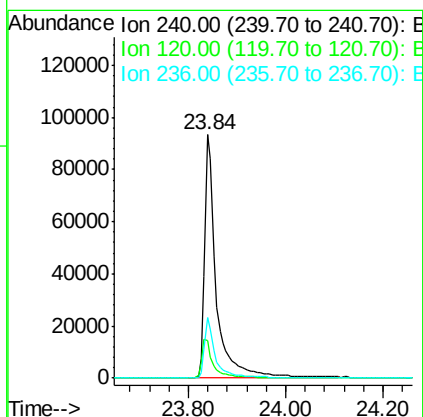
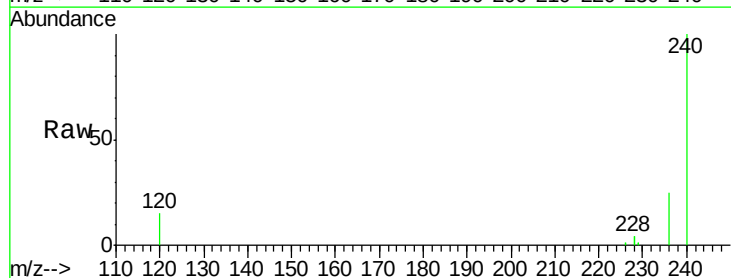
Instrument :
BNA_E
ClientSampleId :

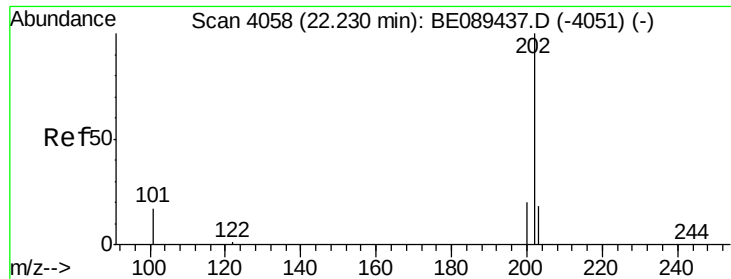
Tgt Ion: 202 Resp: 5321
Ion Ratio Lower Upper
202 100
101 17.5 13.6 20.4
203 16.4 13.8 20.6



#16
Chrysene-d12
Concen: 5.00 ng
RT: 23.84 min Scan# 4327
Delta R.T. -0.01 min
Lab File: BE089476.D
Acq: 31 Jan 2015 20:02

Tgt Ion: 240 Resp: 155253
Ion Ratio Lower Upper
240 100
120 15.5 8.6 13.0#
236 24.8 18.7 28.1

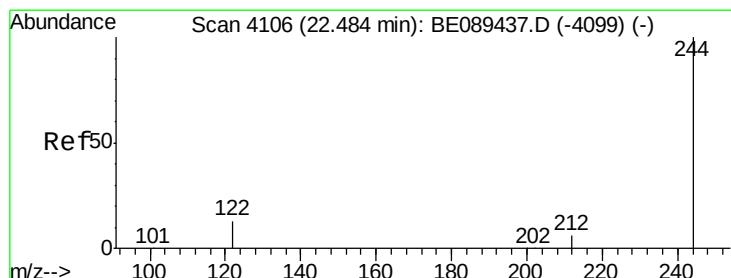
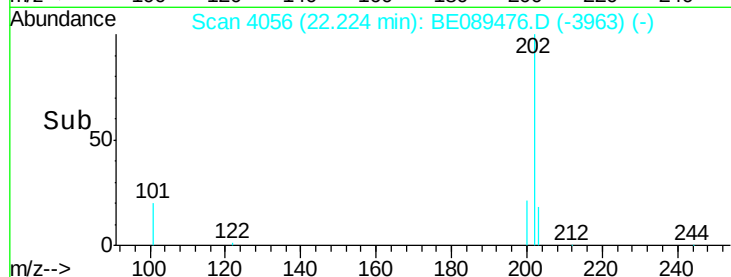
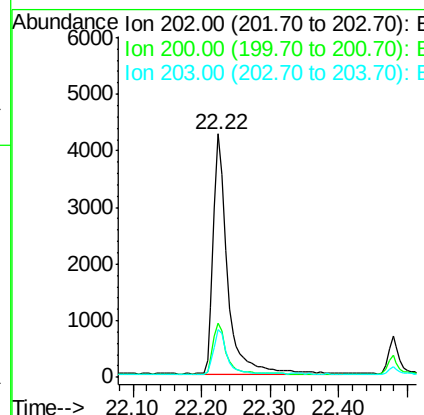
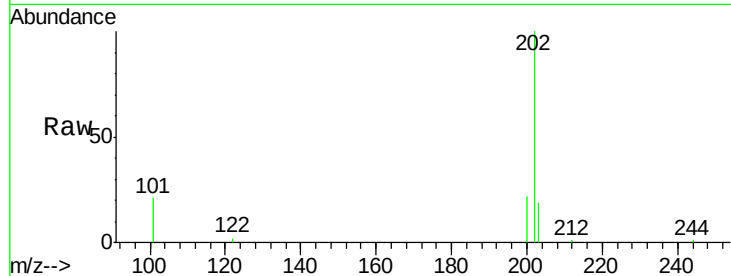




#17
 Pyrene
 Concen: 0.15 ng
 RT: 22.22 min Scan# 4056
 Delta R.T. -0.01 min
 Lab File: BE089476.D
 Acq: 31 Jan 2015 20:02

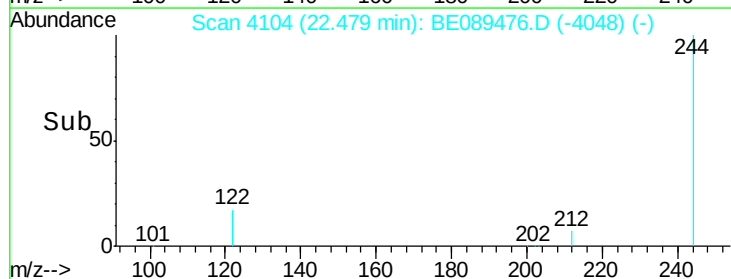
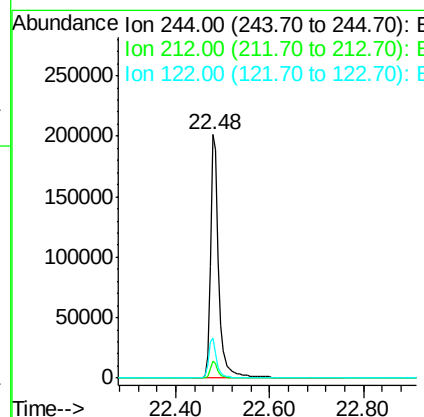
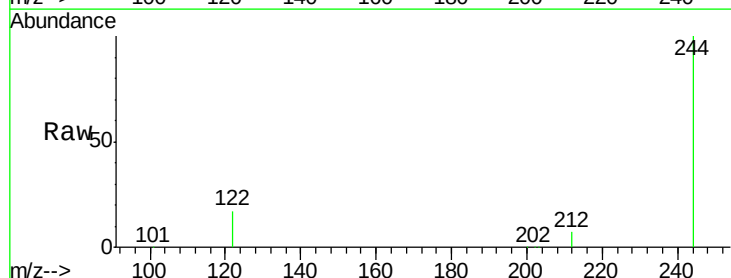
Instrument :
 BNA_E
 ClientSampleId :

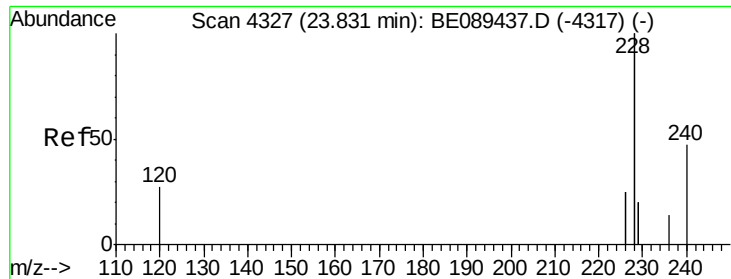
Tgt Ion:202 Resp: 6038
 Ion Ratio Lower Upper
 202 100
 200 20.0 16.2 24.4
 203 17.0 13.8 20.8



#18
 Terphenyl-d14
 Concen: 10.21 ng
 RT: 22.48 min Scan# 4104
 Delta R.T. -0.01 min
 Lab File: BE089476.D
 Acq: 31 Jan 2015 20:02

Tgt Ion:244 Resp: 237335
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.0 7.6
 122 16.7 10.2 15.4#





#19

Benzo(a)anthracene

Concen: 0.10 ng

RT: 23.83 min Scan# 4326

Delta R.T. 0.00 min

Lab File: BE089476.D

Acq: 31 Jan 2015 20:02

Instrument :

BNA_E

ClientSampleId :

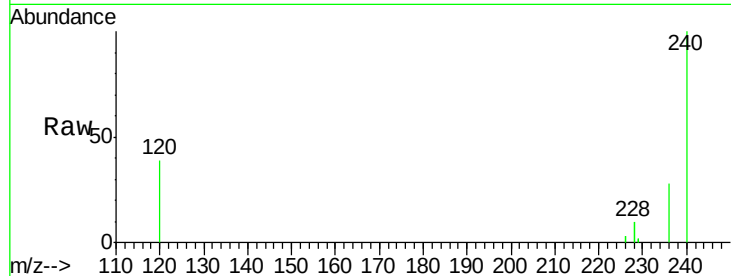
Tgt Ion:228 Resp: 12840

Ion Ratio Lower Upper

228 100

226 26.8 20.0 30.0

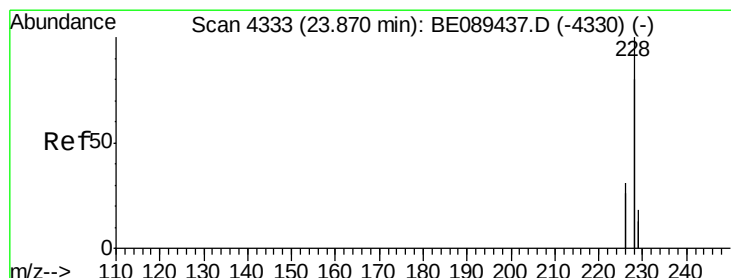
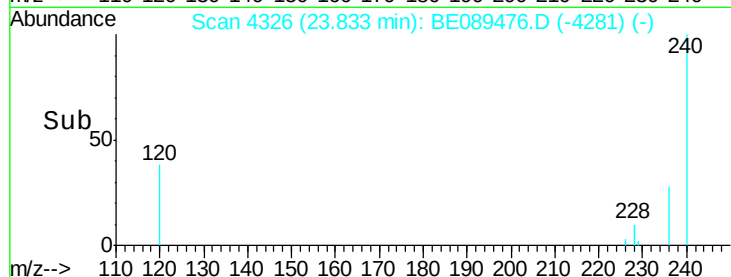
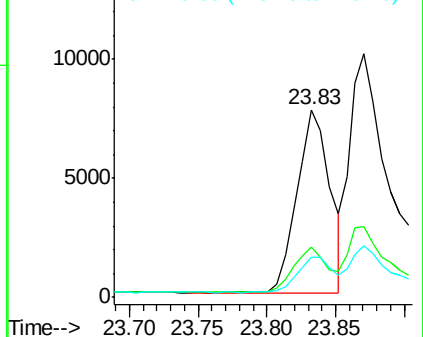
229 21.4 16.0 24.0



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



#20

Chrysene

Concen: 0.17 ng

RT: 23.87 min Scan# 4332

Delta R.T. 0.00 min

Lab File: BE089476.D

Acq: 31 Jan 2015 20:02

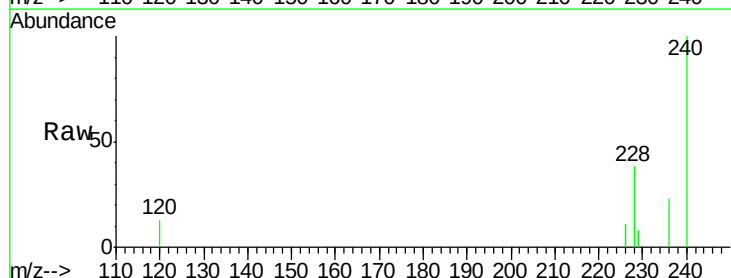
Tgt Ion:228 Resp: 24700

Ion Ratio Lower Upper

228 100

226 28.9 24.5 36.7

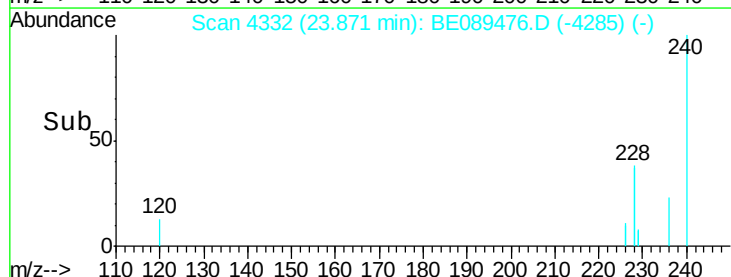
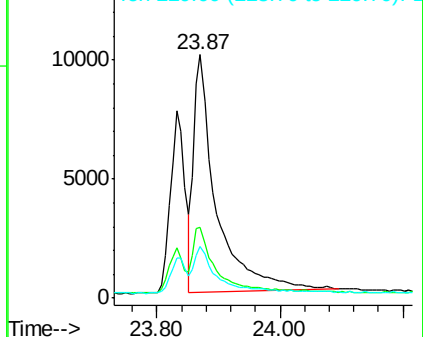
229 21.2 14.1 21.1#

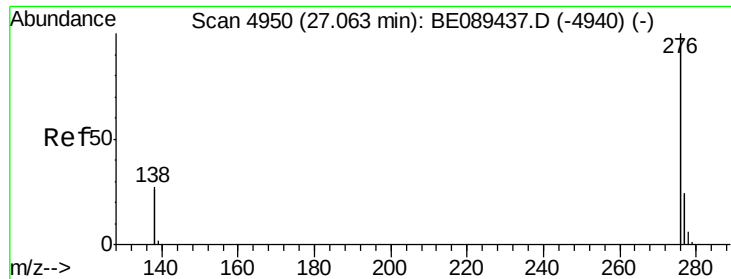


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.03 ng

RT: 27.05 min Scan# 4947

Delta R.T. -0.01 min

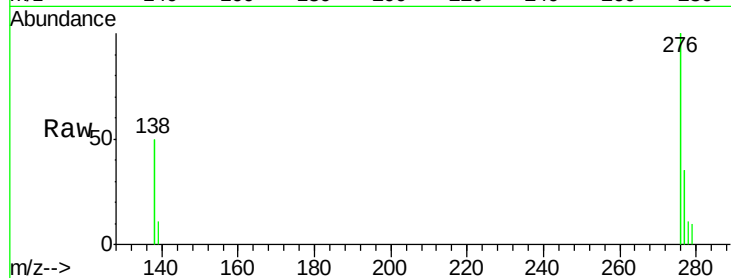
Lab File: BE089476.D

Acq: 31 Jan 2015 20:02

Instrument :

BNA_E

ClientSampleId :



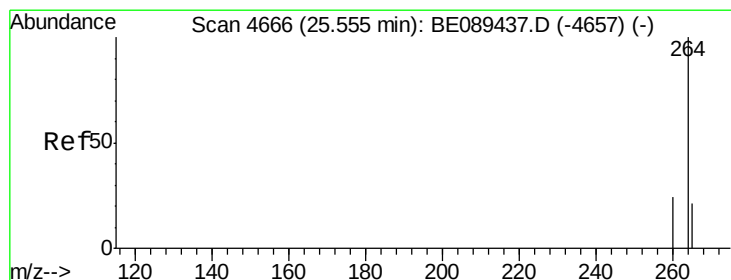
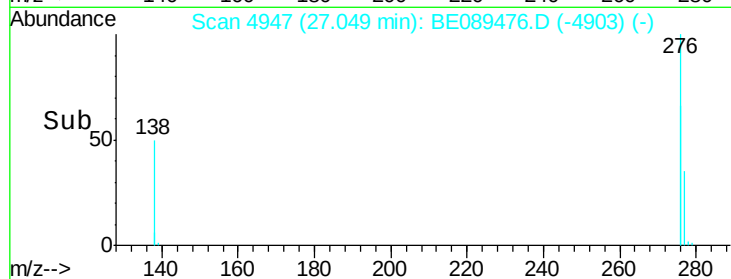
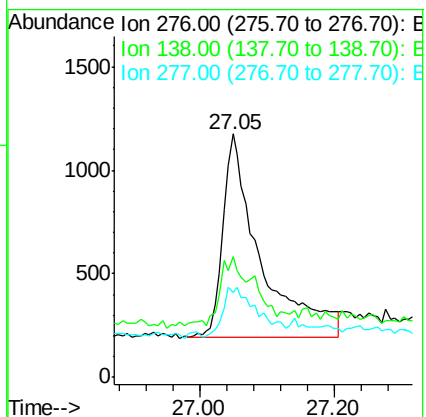
Tgt Ion:276 Resp: 3785

Ion Ratio Lower Upper

276 100

138 31.0 25.4 38.0

277 22.5 19.8 29.6



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.56 min Scan# 4665

Delta R.T. 0.00 min

Lab File: BE089476.D

Acq: 31 Jan 2015 20:02

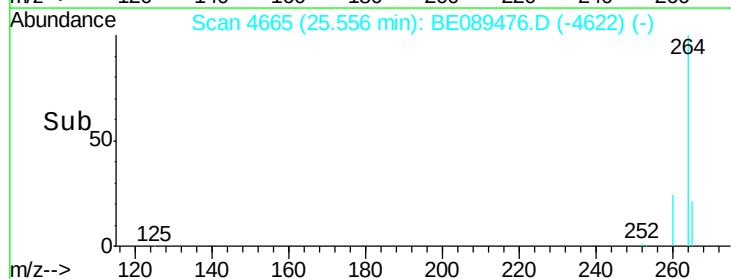
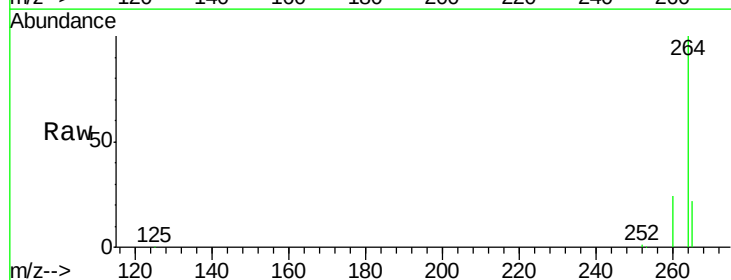
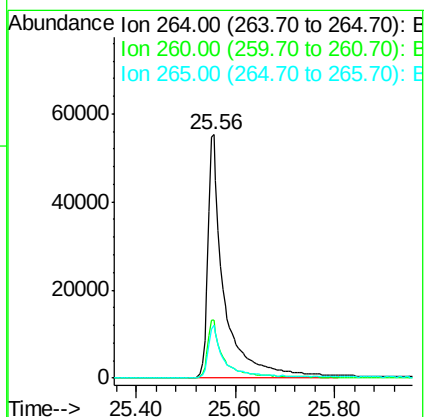
Tgt Ion:264 Resp: 127100

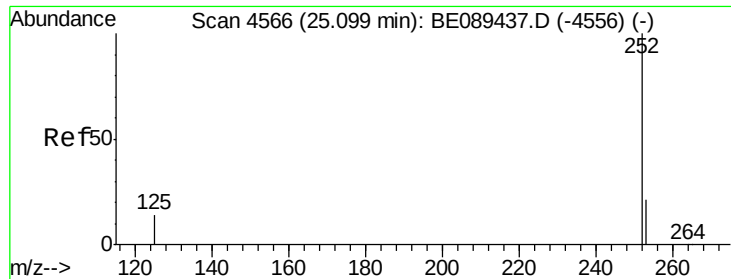
Ion Ratio Lower Upper

264 100

260 23.6 19.4 29.0

265 21.7 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 0.22 ng

RT: 25.09 min Scan# 4563

Delta R.T. -0.01 min

Lab File: BE089476.D

Acq: 31 Jan 2015 20:02

Instrument :

BNA_E

ClientSampleId :

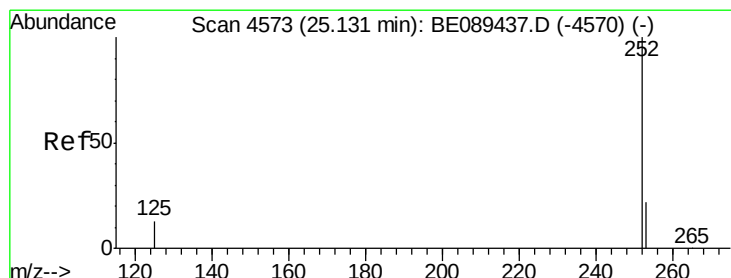
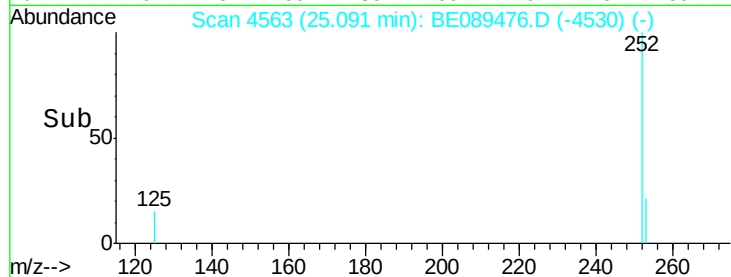
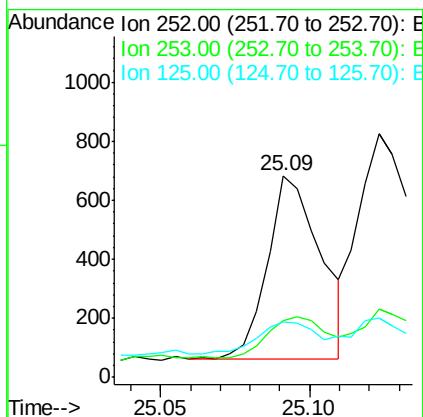
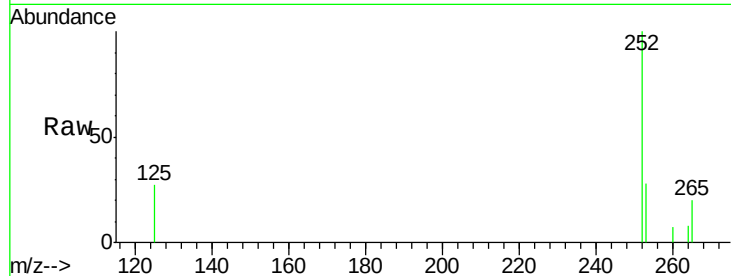
Tgt Ion:252 Resp: 774

Ion Ratio Lower Upper

252 100

253 28.1 17.0 25.6#

125 27.3 11.4 17.0#



#24

Benzo(k)fluoranthene

Concen: 0.04 ng

RT: 25.12 min Scan# 4570

Delta R.T. -0.01 min

Lab File: BE089476.D

Acq: 31 Jan 2015 20:02

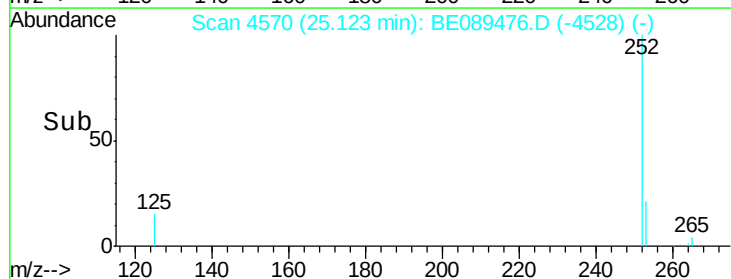
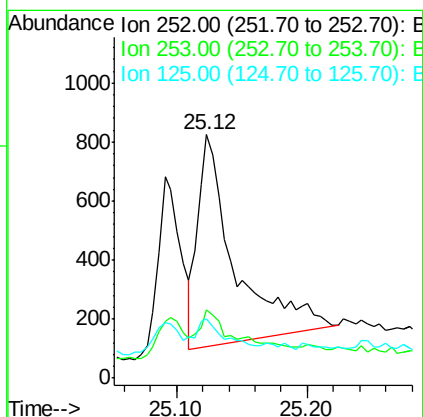
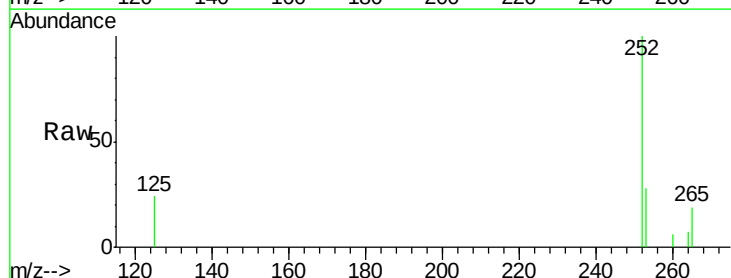
Tgt Ion:252 Resp: 1421

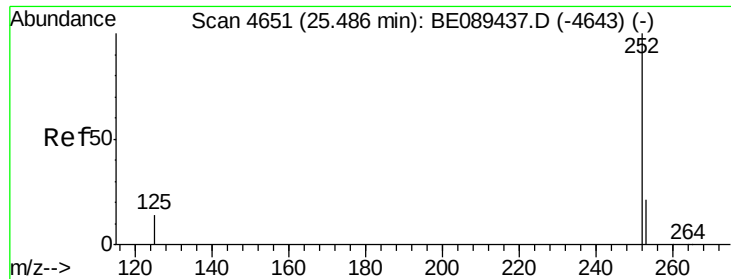
Ion Ratio Lower Upper

252 100

253 28.2 17.4 26.2#

125 24.5 10.9 16.3#





#25

Benzo(a)pyrene

Concen: 0.16 ng

RT: 25.48 min Scan# 4648

Delta R.T. -0.01 min

Lab File: BE089476.D

Acq: 31 Jan 2015 20:02

Instrument :

BNA_E

ClientSampleId :

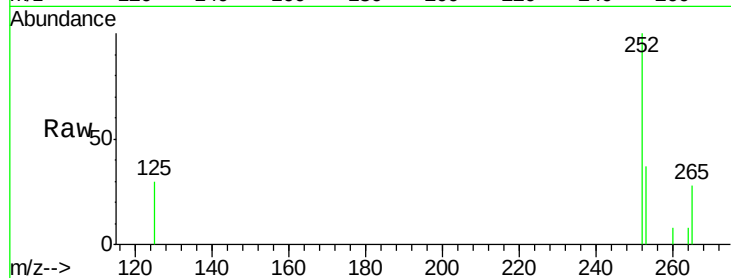
Tgt Ion: 252 Resp: 908

Ion Ratio Lower Upper

252 100

253 37.0 17.3 25.9#

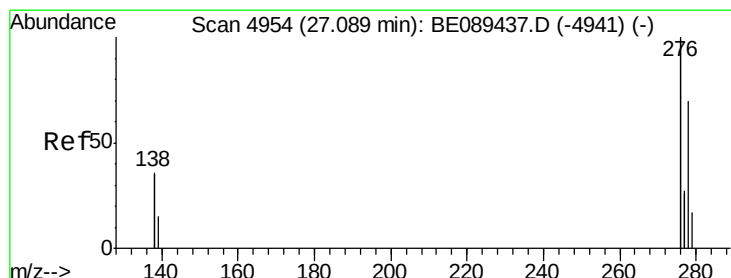
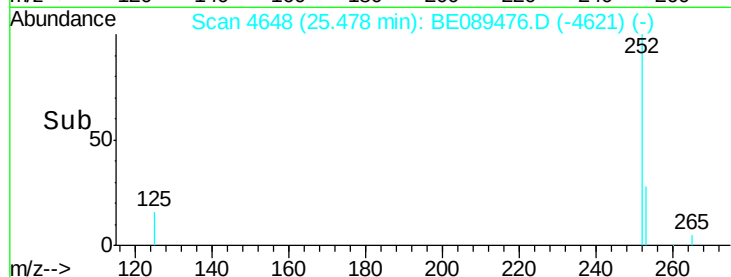
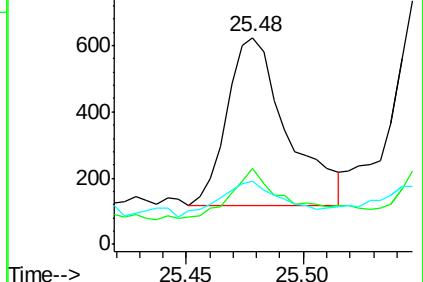
125 30.2 12.0 18.0#



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



#26

Dibenzo(a,h)anthracene

Concen: 0.16 ng

RT: 27.08 min Scan# 4952

Delta R.T. -0.01 min

Lab File: BE089476.D

Acq: 31 Jan 2015 20:02

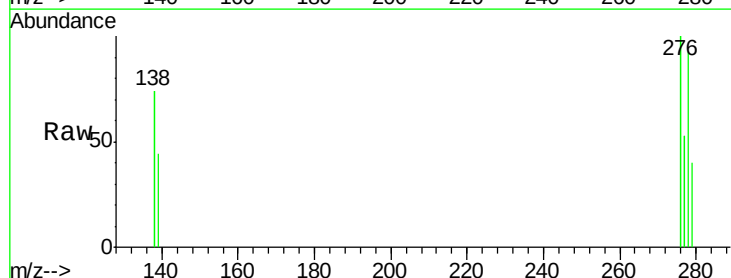
Tgt Ion: 278 Resp: 644

Ion Ratio Lower Upper

278 100

139 47.9 17.0 25.4#

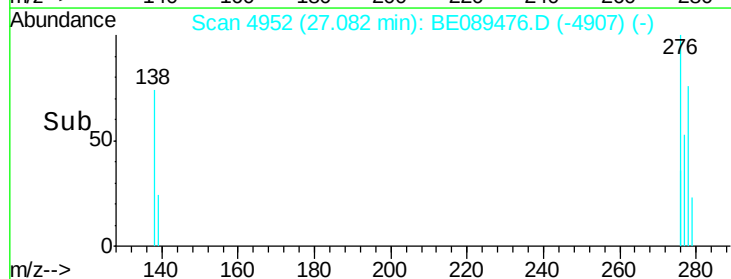
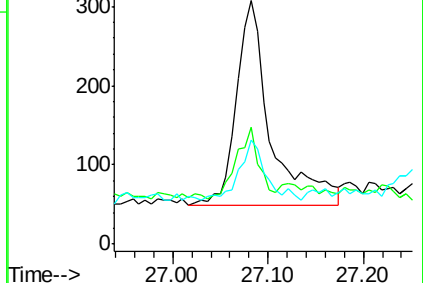
279 43.0 19.1 28.7#

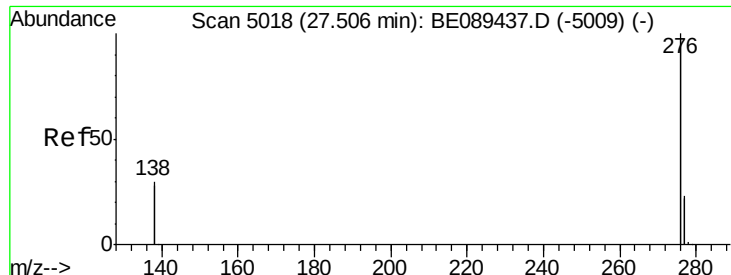


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#27

Benzo(g,h,i)perylene

Concen: 0.05 ng

RT: 27.50 min Scan# 5016

Delta R.T. -0.01 min

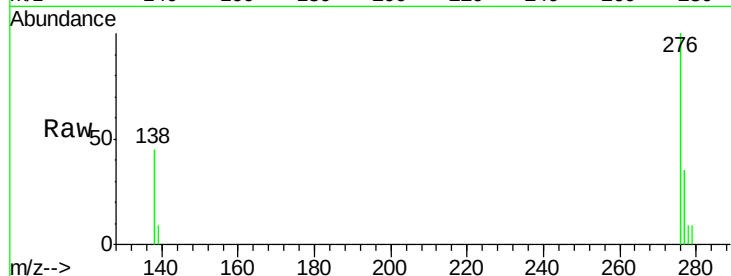
Lab File: BE089476.D

Acq: 31 Jan 2015 20:02

Instrument :

BNA_E

ClientSampleId :



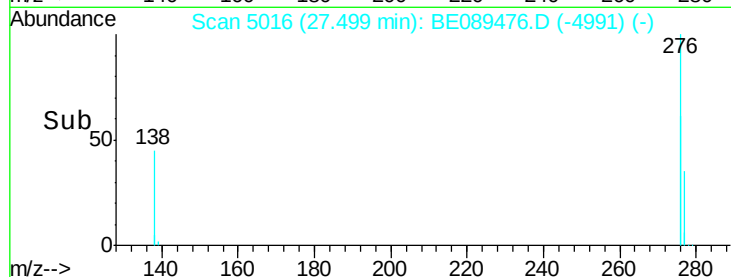
Tgt Ion: 276 Resp: 4816

Ion Ratio Lower Upper

276 100

277 35.5 18.4 27.6#

138 45.4 23.7 35.5#



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

