

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089577.D
 Acq On : 8 Feb 2015 4:55
 Operator : TP/IZ
 Sample : MDL-05-W
 Misc : MDL-WATER-0.2/0.4
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 09 00:26:36 2015
 Quant Method : Z:\HPCHEM1\BNA_E\methods\SIMPAH-BE020615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Feb 07 04:07:57 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.42	152	44661	5.00	ng	0.00
2) Naphthalene-d8	12.33	136	191502	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	102022	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	175918	5.00	ng	0.00
16) Chrysene-d12	23.72	240	170331	5.00	ng	0.00
22) Perylene-d12	25.41	264	149329	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.69	82	116079	9.13	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	205970	7.57	ng	0.00
18) Terphenyl-d14	22.36	244	228195	10.16	ng	0.00

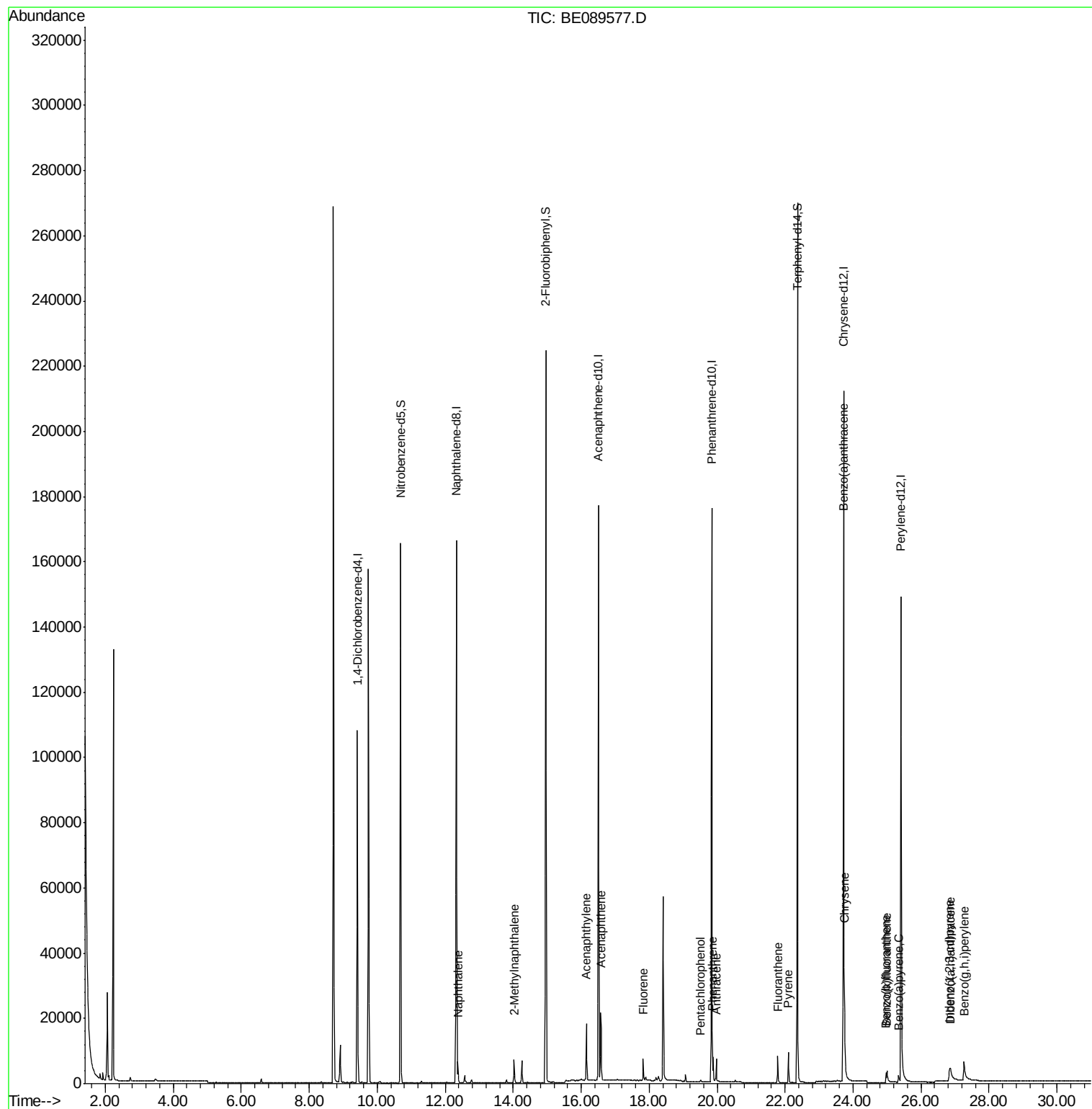
Target Compounds						Qvalue
4) Naphthalene	12.37	128	7093	0.16	ng	98
5) 2-Methylnaphthalene	14.03	142	4352	0.18	ng	95
8) Acenaphthylene	16.16	152	23564	0.14	ng	99
9) Acenaphthene	16.58	154	4205	0.15	ng	99
10) Fluorene	17.83	166	4548	0.16	ng	99
12) Pentachlorophenol	19.52	266	359	0.80	ng	93
13) Phenanthrene	19.88	178	7566	0.17	ng	98
14) Anthracene	19.98	178	6203	0.17	ng	100
15) Fluoranthene	21.78	202	6077	0.15	ng	97
17) Pyrene	22.10	202	6807	0.19	ng	99
19) Benzo(a)anthracene	23.70	228	23138	0.15	ng	97
20) Chrysene	23.75	228	28226	0.18	ng	98
21) Indeno(1,2,3-cd)pyrene	26.84	276	12930	0.06	ng	# 82
23) Benzo(b)fluoranthene	24.97	252	2882	0.10	ng	99
24) Benzo(k)fluoranthene	25.00	252	5387	0.15	ng	98
25) Benzo(a)pyrene	25.34	252	2956	0.10	ng	95
26) Dibenzo(a,h)anthracene	26.87	278	2408	0.07	ng	95
27) Benzo(g,h,i)perylene	27.26	276	13026	0.09	ng	95

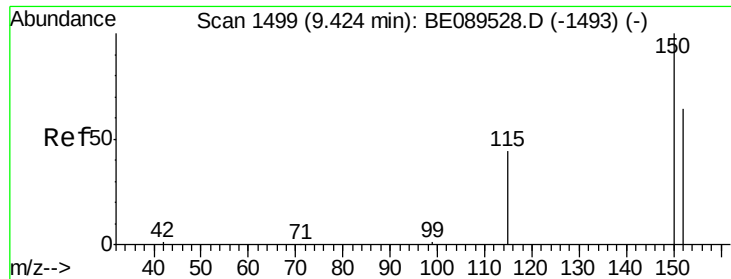
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1498

Delta R.T. -0.00 min

Lab File: BE089577.D

Acq: 8 Feb 2015 4:55

Instrument :

BNA_E

ClientSampleId :

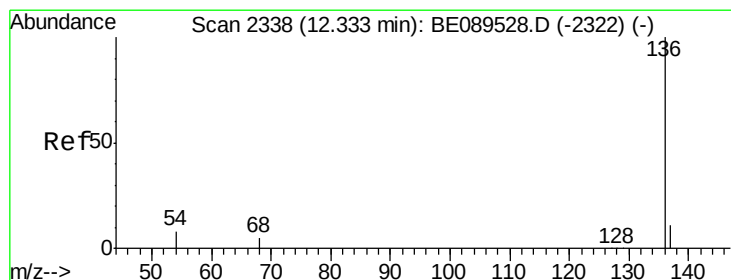
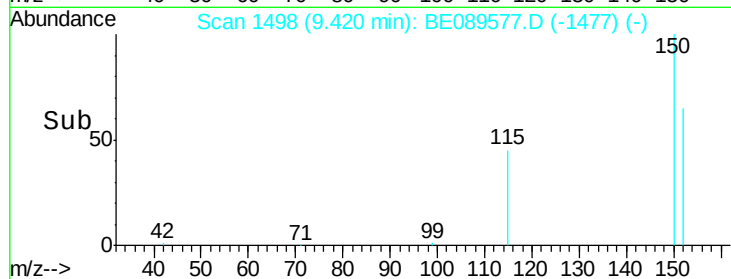
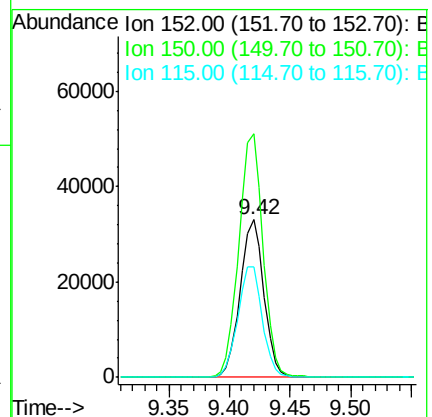
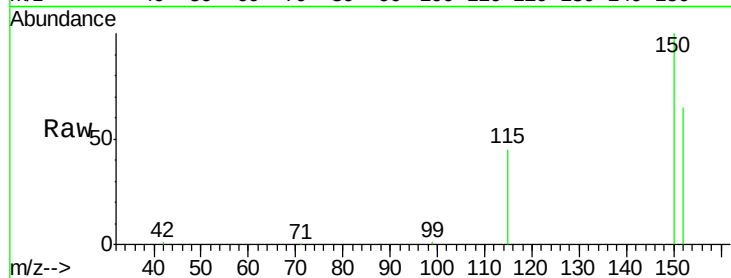
Tgt Ion:152 Resp: 44661

Ion Ratio Lower Upper

152 100

150 154.7 125.7 188.5

115 69.9 55.6 83.4



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.33 min Scan# 2337

Delta R.T. -0.01 min

Lab File: BE089577.D

Acq: 8 Feb 2015 4:55

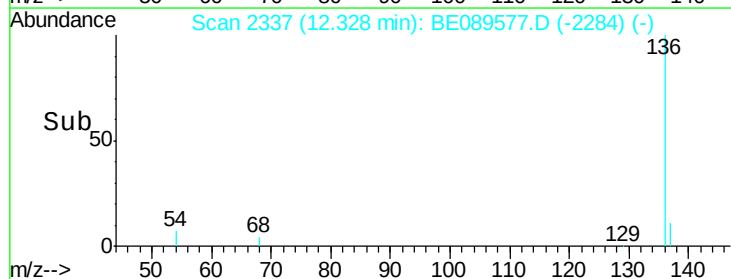
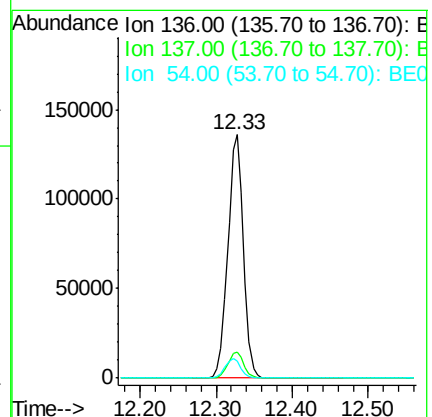
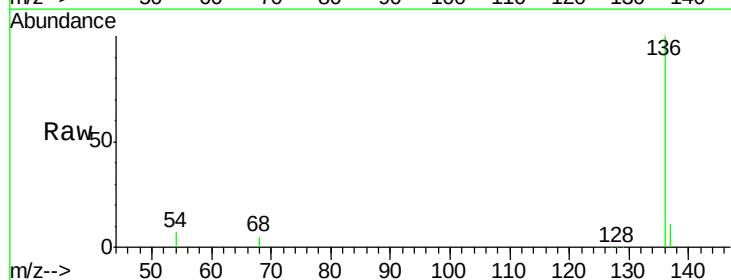
Tgt Ion:136 Resp: 191502

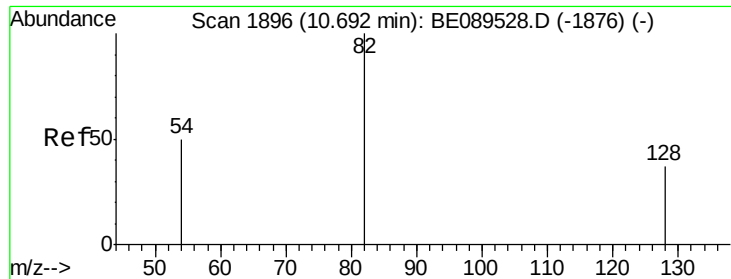
Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

54 7.0 6.1 9.1





#3

Nitrobenzene-d5

Concen: 9.13 ng

RT: 10.69 min Scan# 1894

Delta R.T. -0.00 min

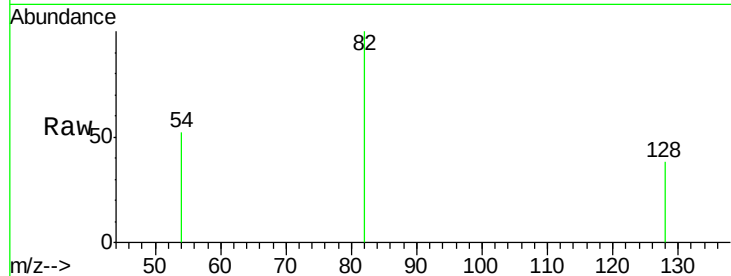
Lab File: BE089577.D

Acq: 8 Feb 2015 4:55

Instrument :

BNA_E

ClientSampleId :



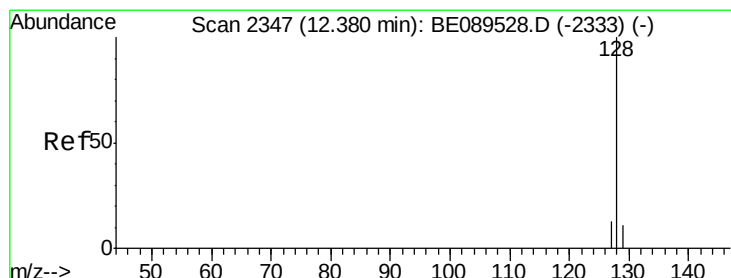
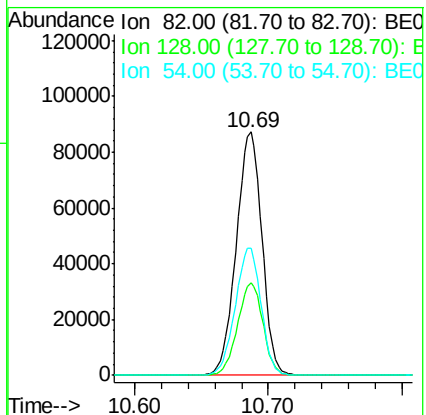
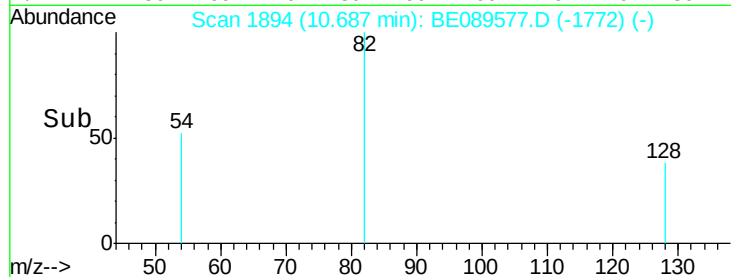
Tgt Ion: 82 Resp: 116079

Ion Ratio Lower Upper

82 100

128 38.0 30.2 45.4

54 52.0 40.6 60.8



#4

Naphthalene

Concen: 0.16 ng

RT: 12.37 min Scan# 2345

Delta R.T. -0.01 min

Lab File: BE089577.D

Acq: 8 Feb 2015 4:55

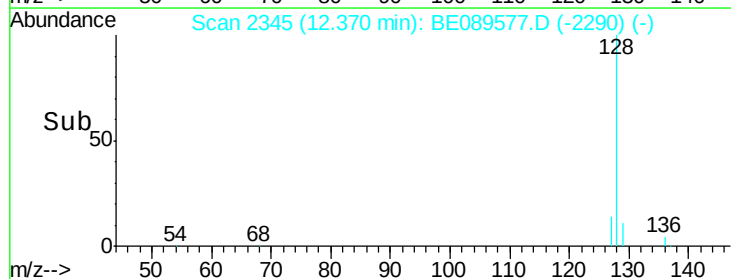
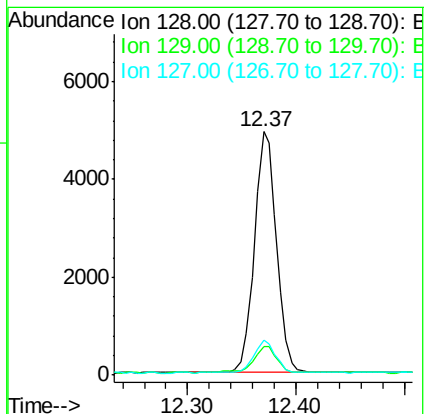
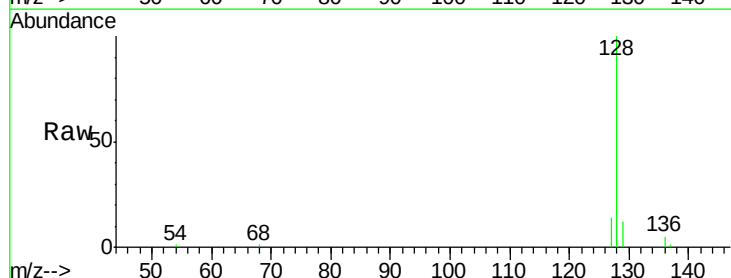
Tgt Ion: 128 Resp: 7093

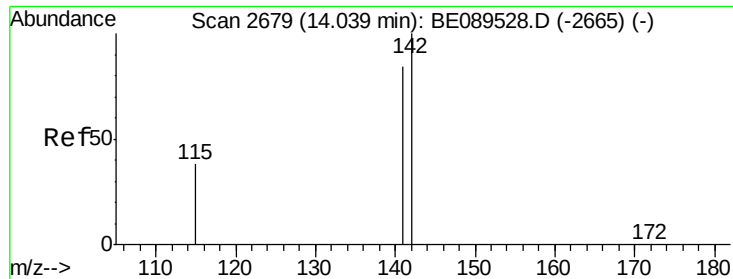
Ion Ratio Lower Upper

128 100

129 11.5 9.1 13.7

127 14.5 10.5 15.7





#5

2-Methylnaphthalene

Concen: 0.18 ng

RT: 14.03 min Scan# 2677

Delta R.T. -0.01 min

Lab File: BE089577.D

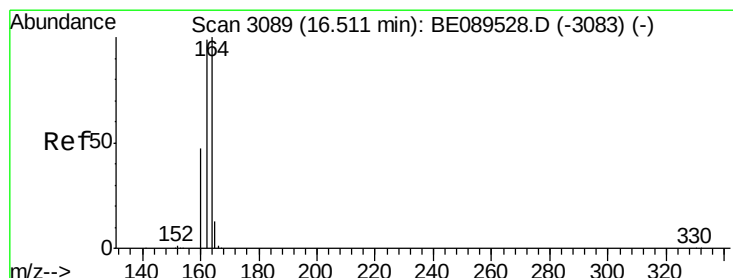
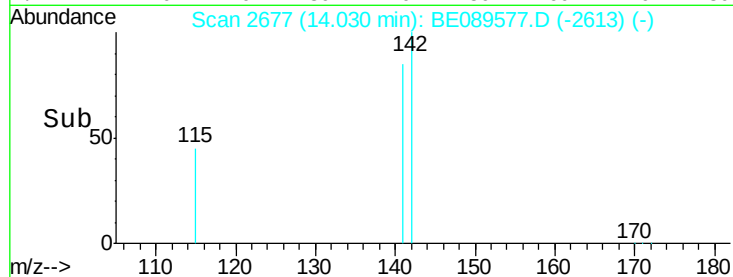
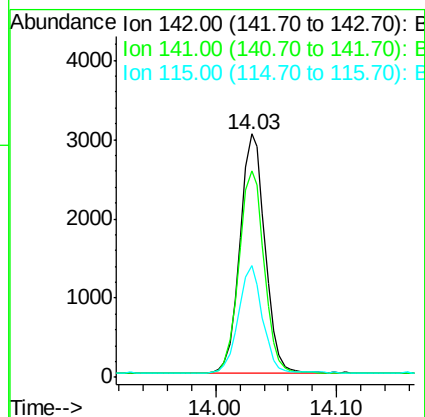
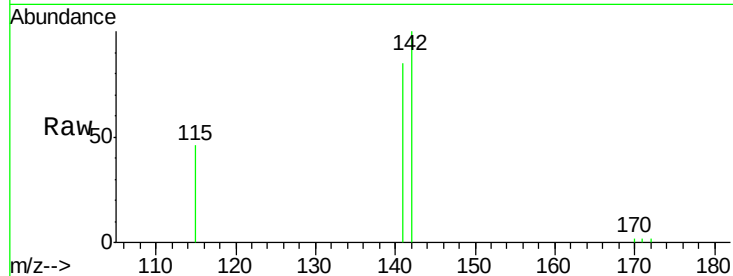
Acq: 8 Feb 2015 4:55

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	4352
Ion Ratio	Lower	Upper	
142	100		
141	84.9	67.0	100.6
115	45.8	30.6	45.8



#6

Acenaphthene-d10

Concen: 5.00 ng

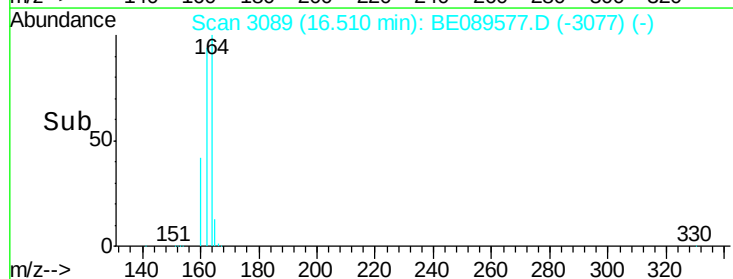
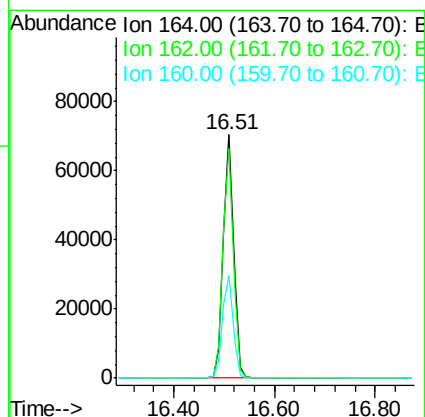
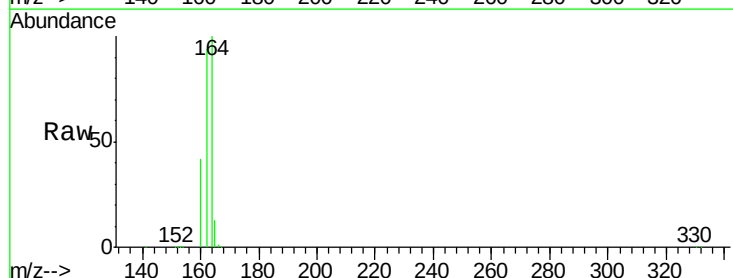
RT: 16.51 min Scan# 3089

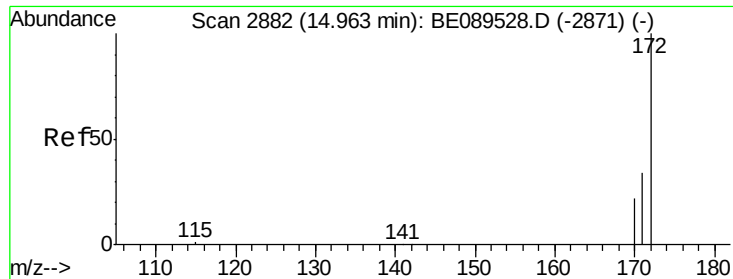
Delta R.T. -0.00 min

Lab File: BE089577.D

Acq: 8 Feb 2015 4:55

Tgt Ion:	164	Resp:	102022
Ion Ratio	Lower	Upper	
164	100		
162	94.3	79.5	119.3
160	42.1	37.6	56.4





#7

2-Fluorobiphenyl

Concen: 7.57 ng

RT: 14.96 min Scan# 2882

Delta R.T. -0.00 min

Lab File: BE089577.D

Acq: 8 Feb 2015 4:55

Instrument :

BNA_E

ClientSampleId :

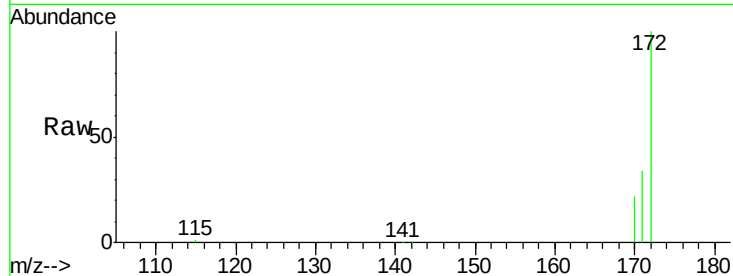
Tgt Ion:172 Resp: 205970

Ion Ratio Lower Upper

172 100

171 33.8 27.7 41.5

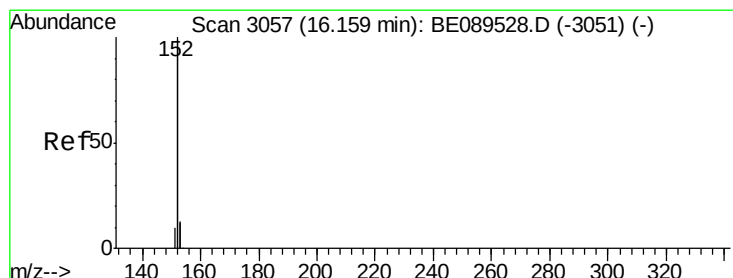
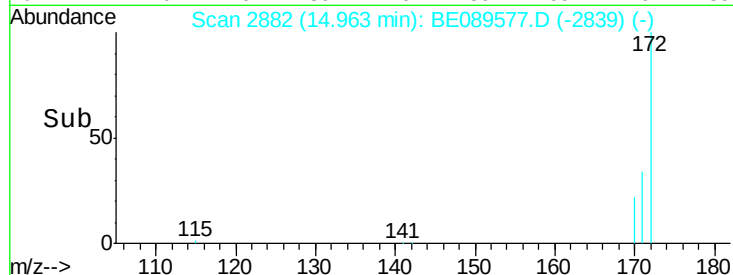
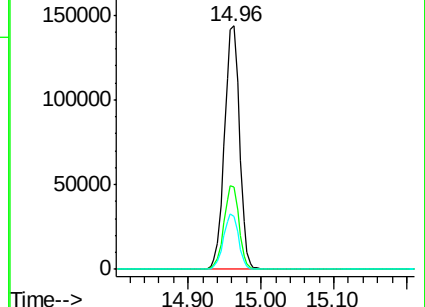
170 21.7 18.3 27.5



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



#8

Acenaphthylene

Concen: 0.14 ng

RT: 16.16 min Scan# 3057

Delta R.T. -0.00 min

Lab File: BE089577.D

Acq: 8 Feb 2015 4:55

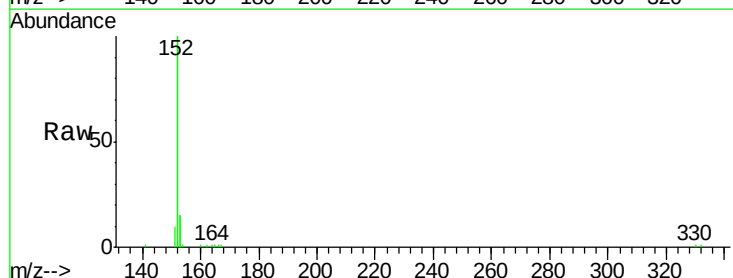
Tgt Ion:152 Resp: 23564

Ion Ratio Lower Upper

152 100

151 5.0 4.0 6.0

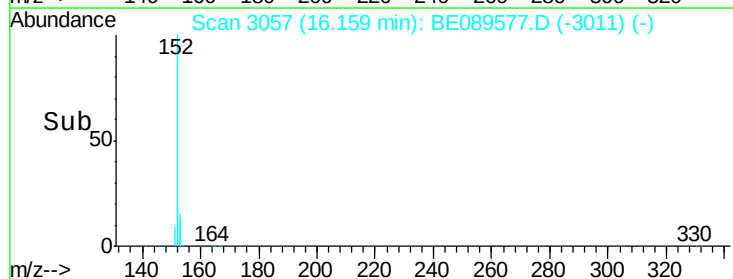
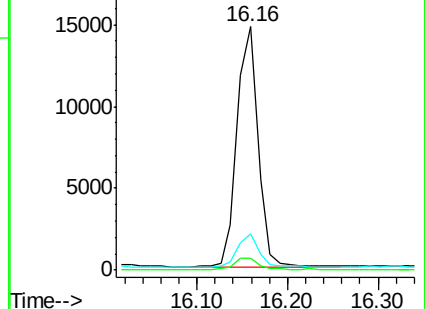
153 13.5 10.6 15.8

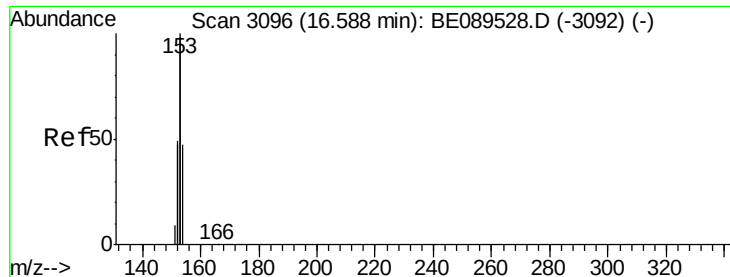


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.15 ng

RT: 16.58 min Scan# 3095

Delta R.T. -0.01 min

Lab File: BE089577.D

Acq: 8 Feb 2015 4:55

Instrument :

BNA_E

ClientSampleId :

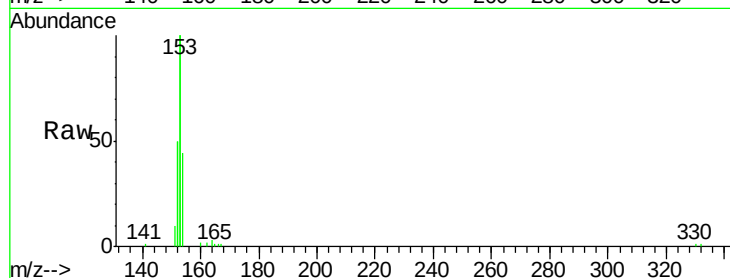
Tgt Ion:154 Resp: 4205

Ion Ratio Lower Upper

154 100

153 422.2 340.8 511.2

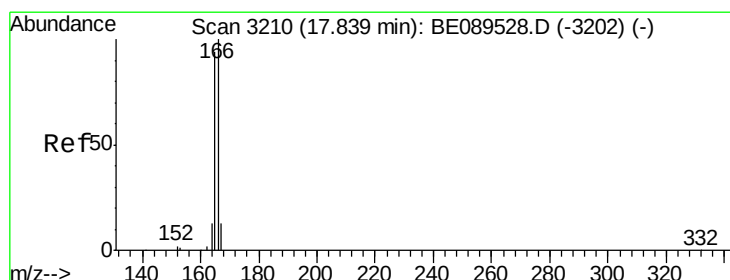
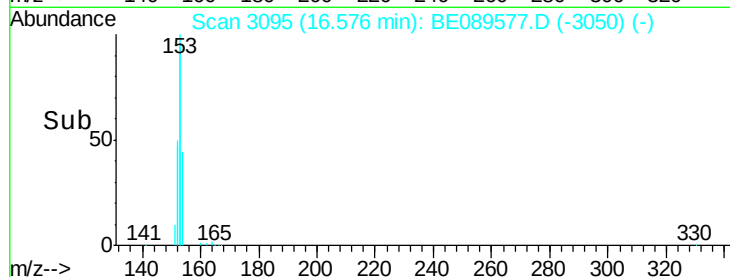
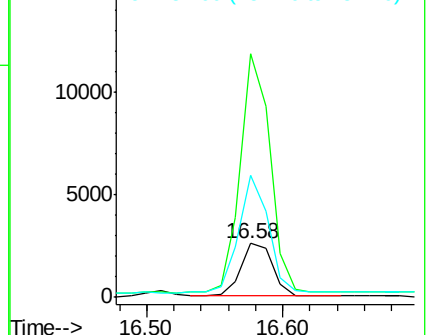
152 207.2 165.5 248.3



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: 0.16 ng

RT: 17.83 min Scan# 3209

Delta R.T. -0.01 min

Lab File: BE089577.D

Acq: 8 Feb 2015 4:55

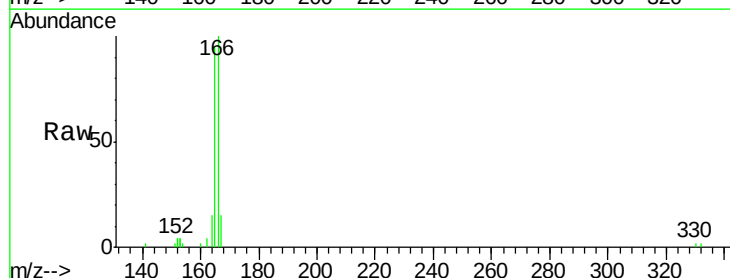
Tgt Ion:166 Resp: 4548

Ion Ratio Lower Upper

166 100

165 92.9 75.5 113.3

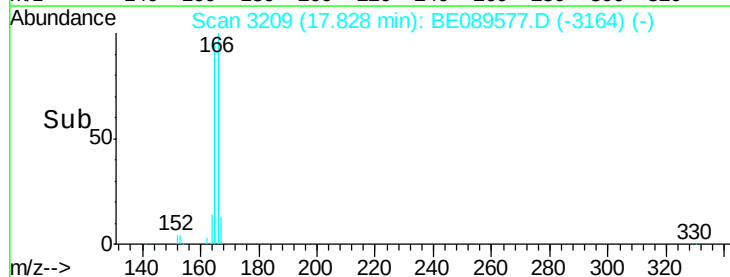
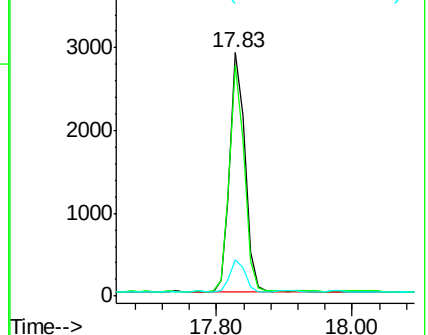
167 13.6 10.9 16.3

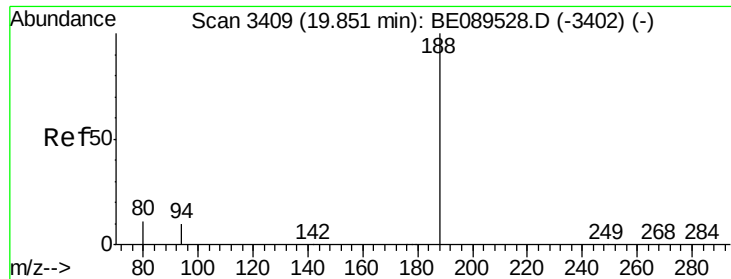


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

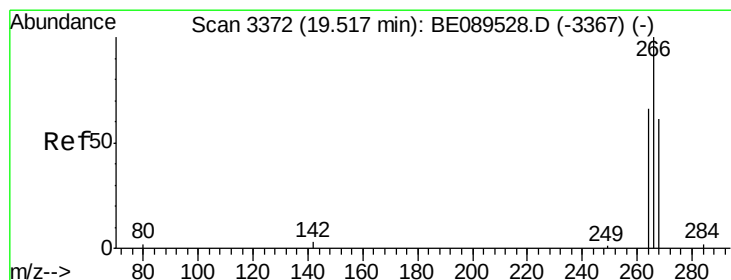
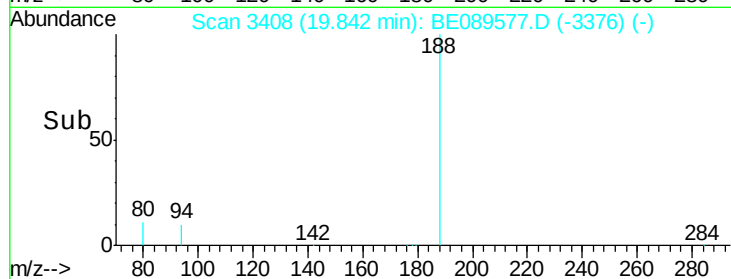
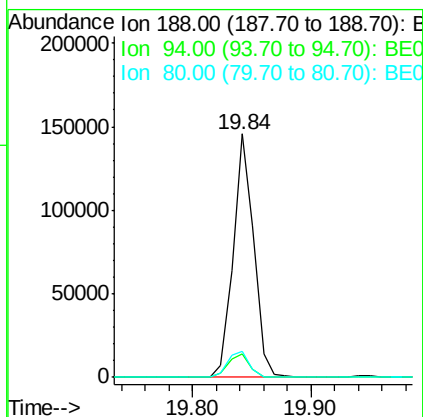
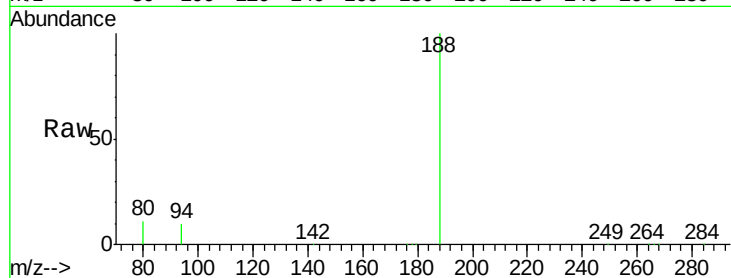




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.84 min Scan# 3408
Delta R.T. -0.01 min
Lab File: BE089577.D
Acq: 8 Feb 2015 4:55

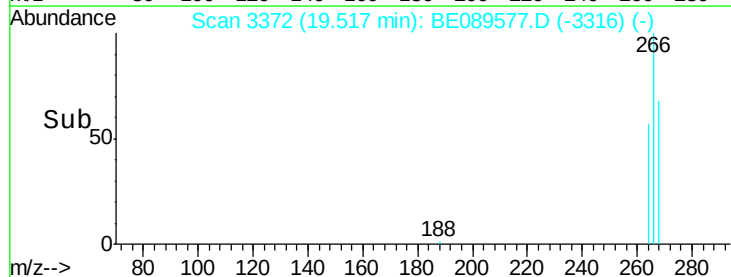
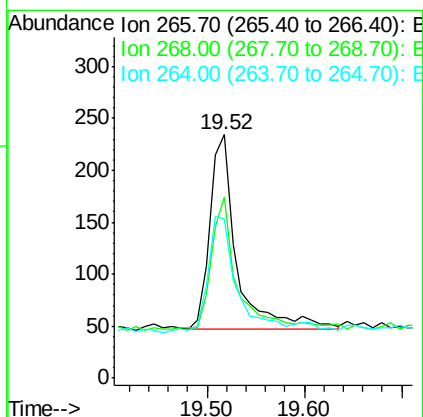
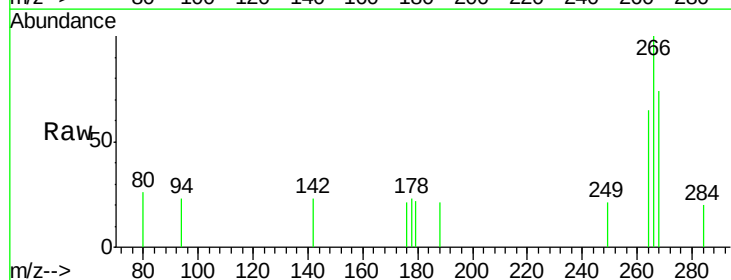
Instrument :
BNA_E
ClientSampleId :

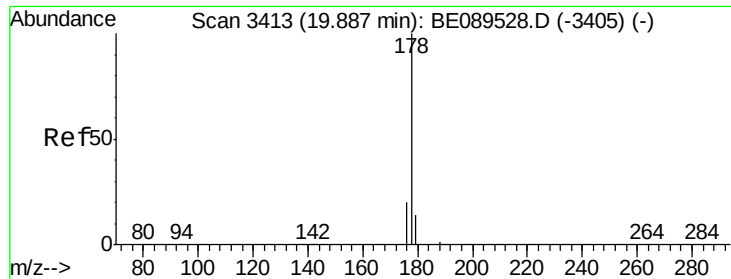
Tgt Ion:188 Resp: 175918
Ion Ratio Lower Upper
188 100
94 9.7 8.4 12.6
80 10.6 8.6 12.8



#12
Pentachlorophenol
Concen: 0.80 ng
RT: 19.52 min Scan# 3372
Delta R.T. 0.00 min
Lab File: BE089577.D
Acq: 8 Feb 2015 4:55

Tgt Ion:266 Resp: 359
Ion Ratio Lower Upper
266 100
268 74.4 57.9 86.9
264 65.4 60.2 90.4

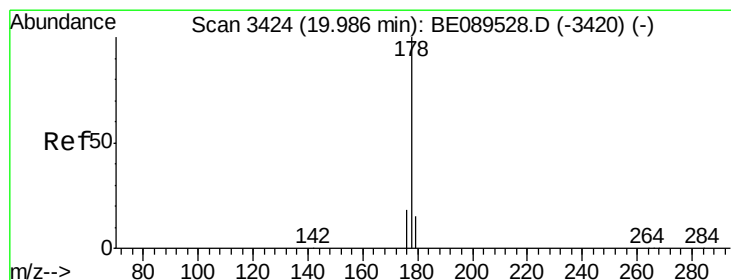
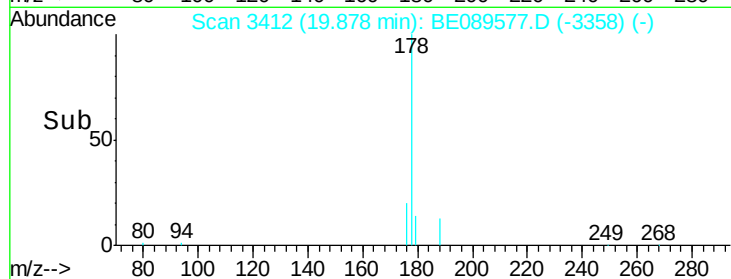
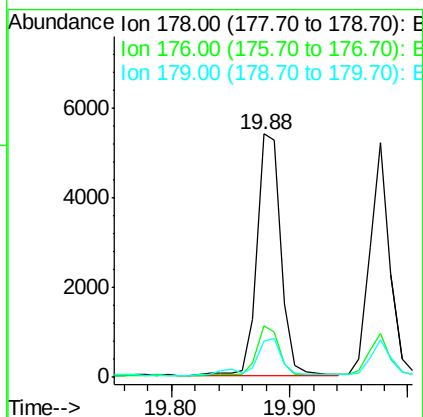
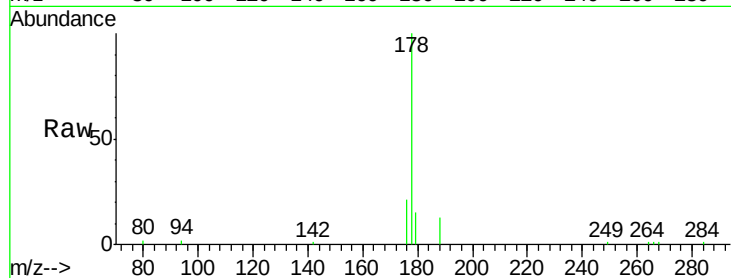




#13
 Phenanthrene
 Concen: 0.17 ng
 RT: 19.88 min Scan# 3412
 Delta R.T. -0.01 min
 Lab File: BE089577.D
 Acq: 8 Feb 2015 4:55

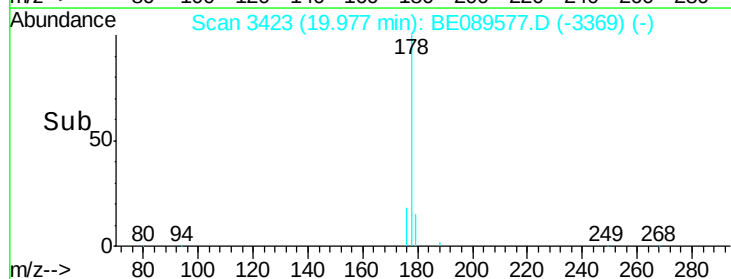
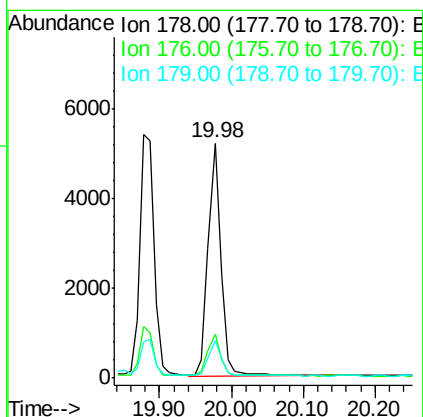
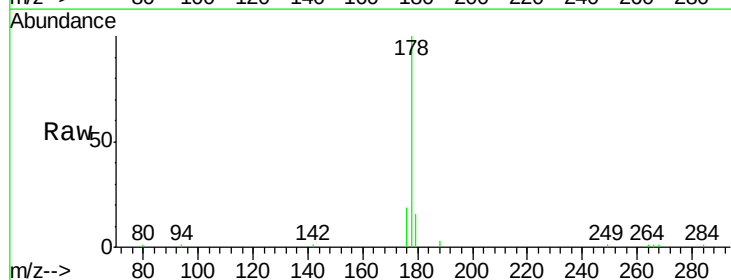
Instrument :
 BNA_E
 ClientSampleId :

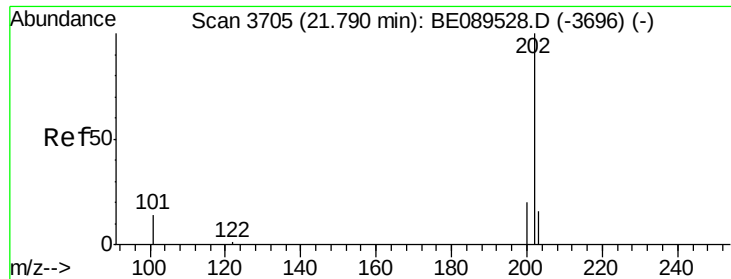
Tgt Ion:178 Resp: 7566
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.4 23.0
 179 17.2 12.2 18.2



#14
 Anthracene
 Concen: 0.17 ng
 RT: 19.98 min Scan# 3423
 Delta R.T. -0.01 min
 Lab File: BE089577.D
 Acq: 8 Feb 2015 4:55

Tgt Ion:178 Resp: 6203
 Ion Ratio Lower Upper
 178 100
 176 17.9 14.5 21.7
 179 15.2 12.2 18.2

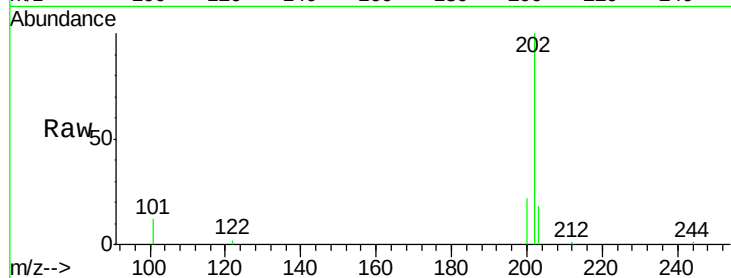




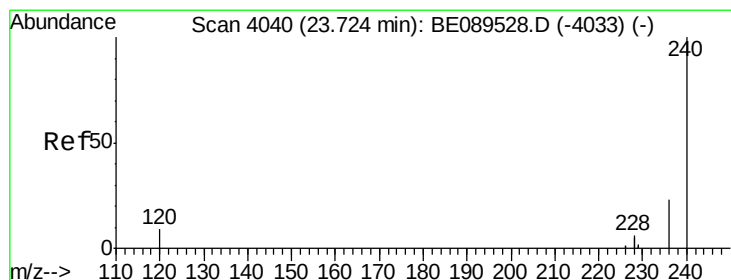
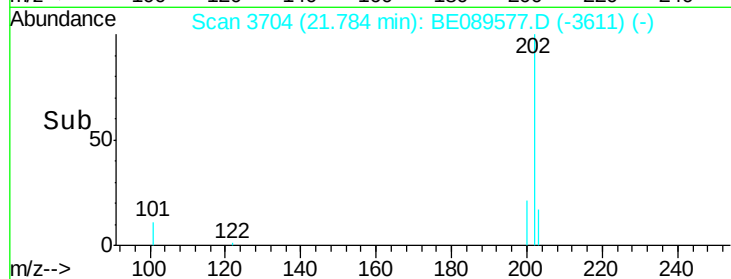
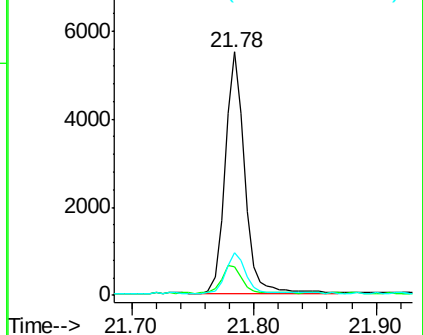
#15
 Fluoranthene
 Concen: 0.15 ng
 RT: 21.78 min Scan# 3704
 Delta R.T. -0.01 min
 Lab File: BE089577.D
 Acq: 8 Feb 2015 4:55

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 202 Resp: 6077
 Ion Ratio Lower Upper
 202 100
 101 11.9 11.6 17.4
 203 17.0 13.6 20.4

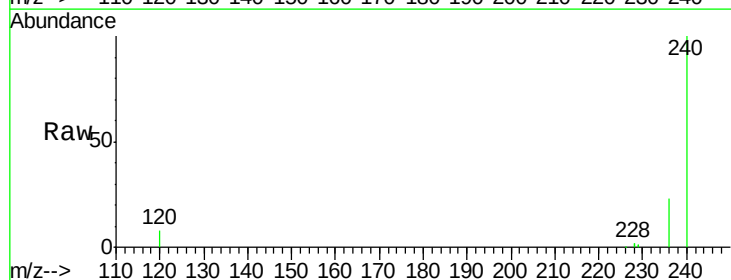


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

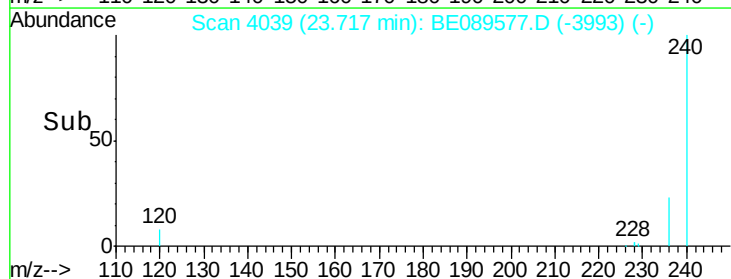
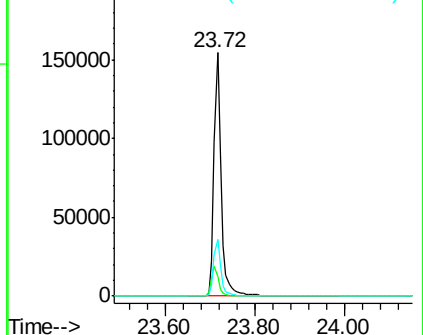


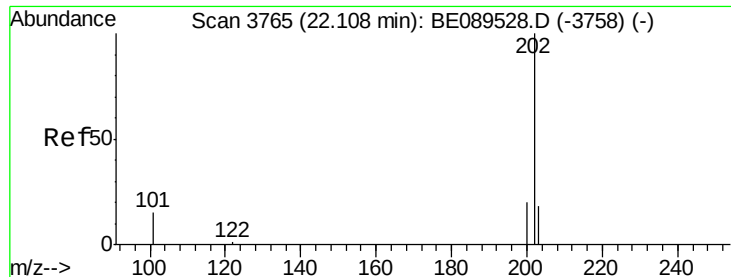
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.72 min Scan# 4039
 Delta R.T. -0.01 min
 Lab File: BE089577.D
 Acq: 8 Feb 2015 4:55

Tgt Ion: 240 Resp: 170331
 Ion Ratio Lower Upper
 240 100
 120 7.8 7.2 10.8
 236 23.4 18.5 27.7



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





#17

Pyrene

Concen: 0.19 ng

RT: 22.10 min Scan# 3763

Delta R.T. -0.01 min

Lab File: BE089577.D

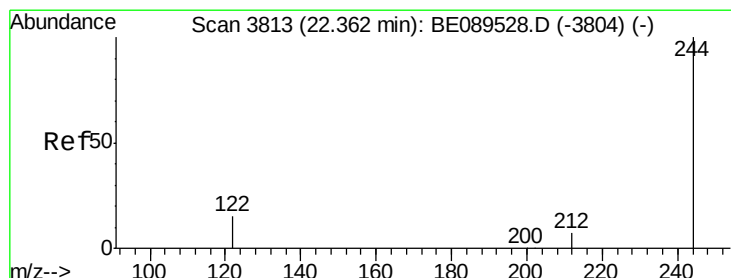
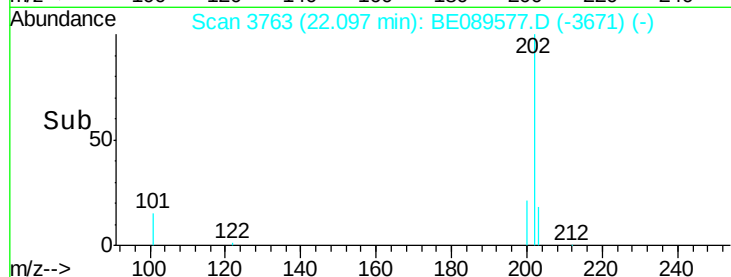
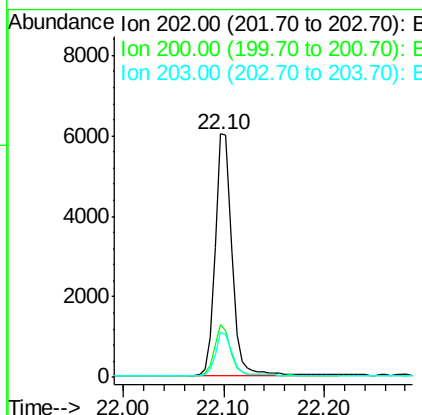
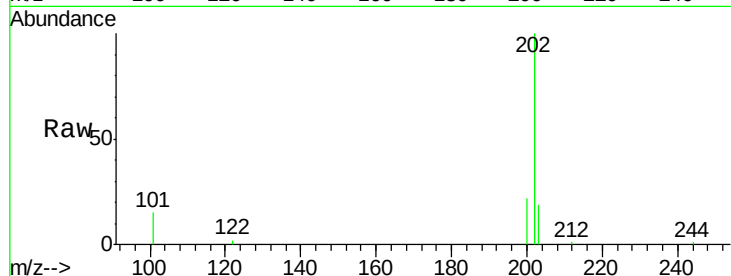
Acq: 8 Feb 2015 4:55

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	202	Resp:	6807
Ion	Ratio	Lower	Upper
202	100		
200	20.3	16.3	24.5
203	18.0	13.5	20.3



#18

Terphenyl-d14

Concen: 10.16 ng

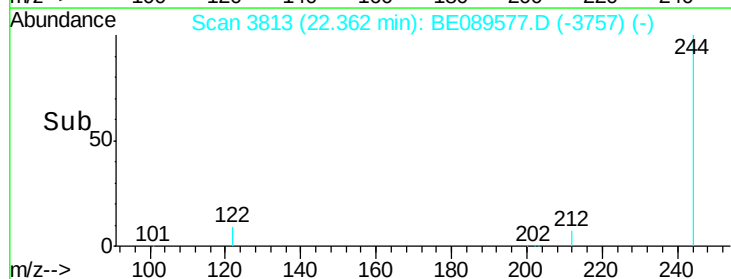
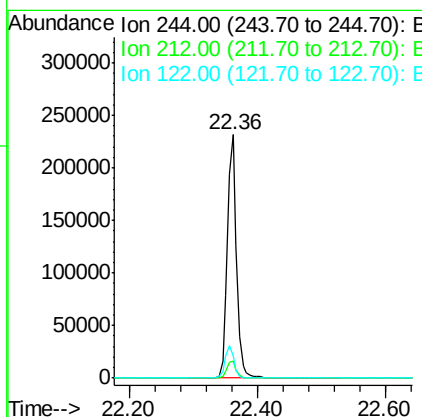
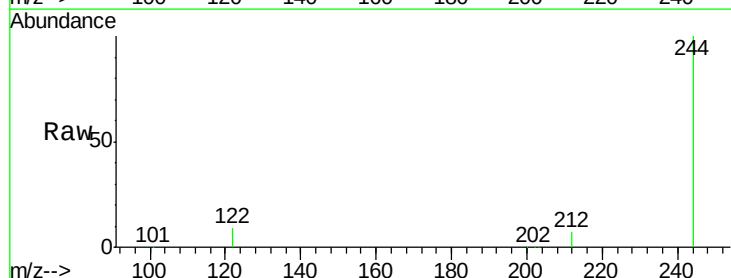
RT: 22.36 min Scan# 3813

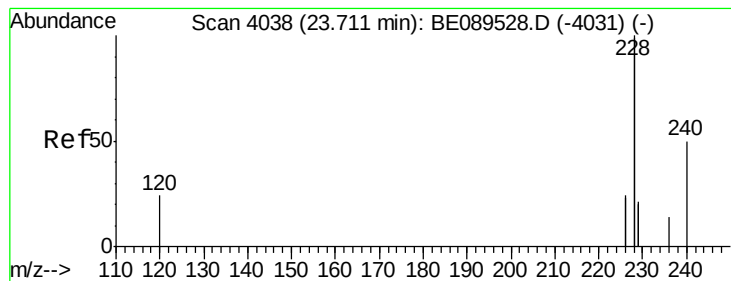
Delta R.T. -0.00 min

Lab File: BE089577.D

Acq: 8 Feb 2015 4:55

Tgt Ion:	244	Resp:	228195
Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.8	8.8
122	9.2	12.6	19.0#





#19

Benzo(a)anthracene

Concen: 0.15 ng

RT: 23.70 min Scan# 4037

Delta R.T. -0.01 min

Lab File: BE089577.D

Acq: 8 Feb 2015 4:55

Instrument :

BNA_E

ClientSampleId :

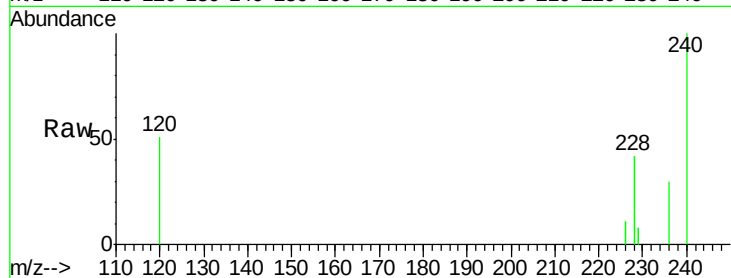
Tgt Ion:228 Resp: 23138

Ion Ratio Lower Upper

228 100

226 25.0 19.0 28.4

229 19.8 16.8 25.2

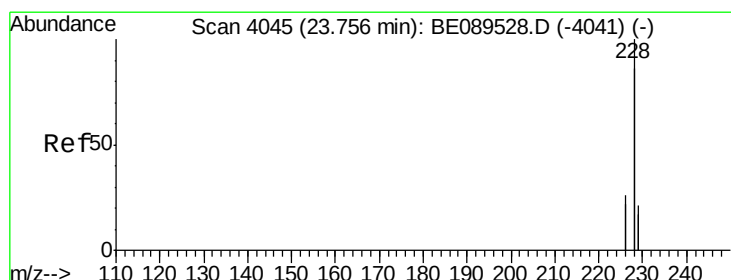
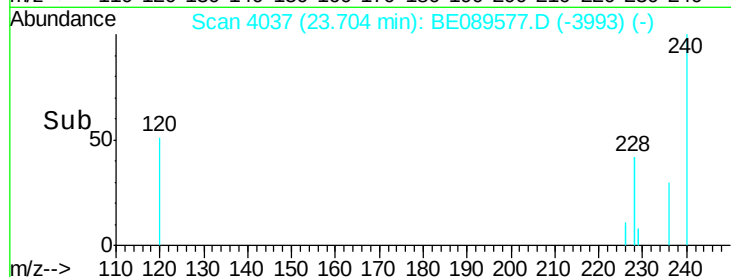
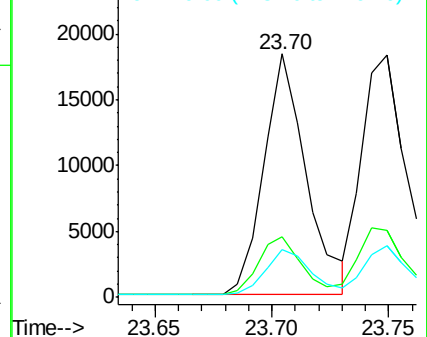


Abundance

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: 0.18 ng

RT: 23.75 min Scan# 4044

Delta R.T. -0.01 min

Lab File: BE089577.D

Acq: 8 Feb 2015 4:55

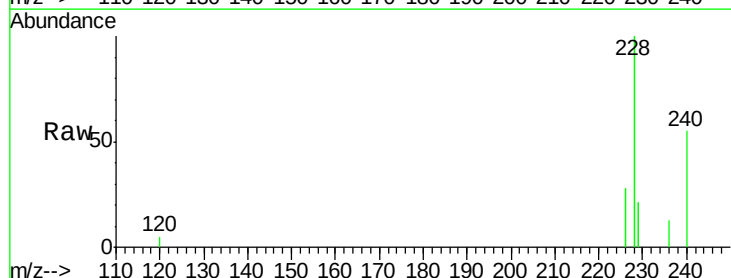
Tgt Ion:228 Resp: 28226

Ion Ratio Lower Upper

228 100

226 27.8 21.0 31.4

229 21.0 16.7 25.1

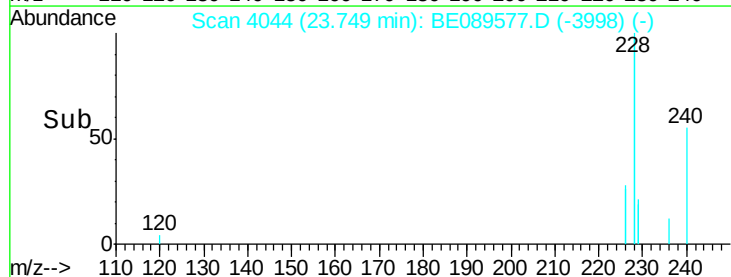
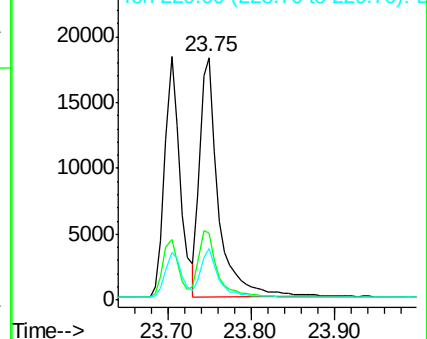


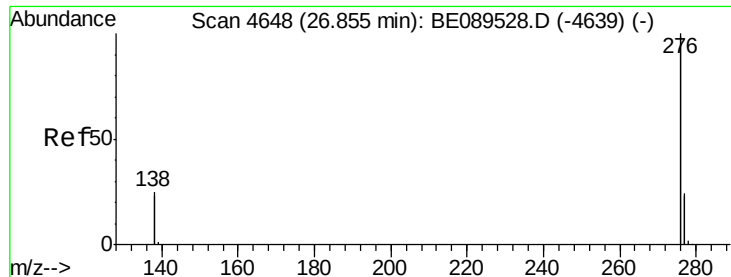
Abundance

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

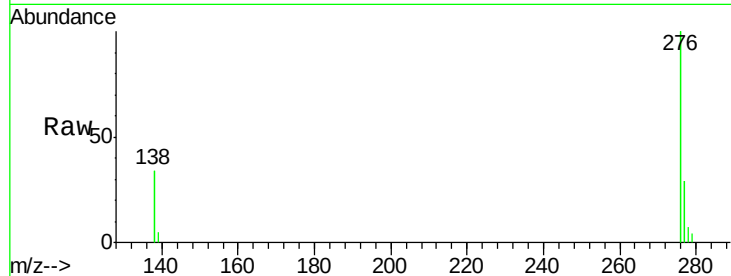




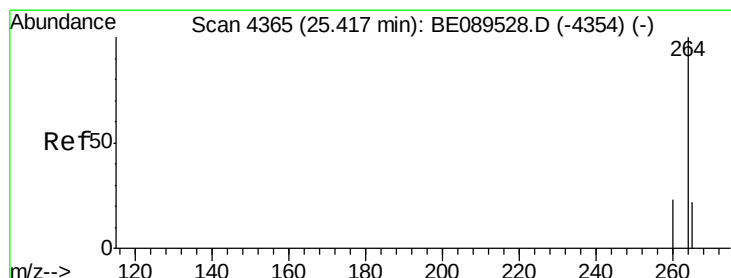
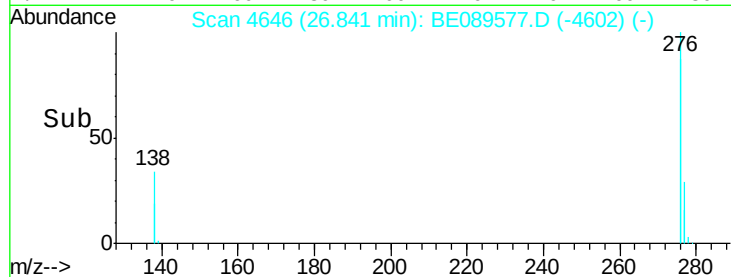
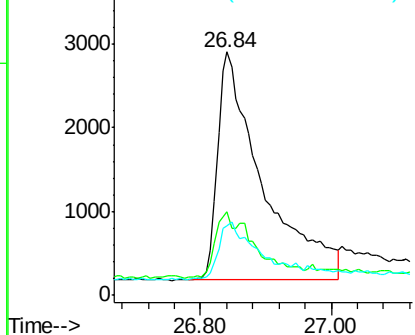
#21
 Indeno(1,2,3-cd)pyrene
 Concen: 0.06 ng
 RT: 26.84 min Scan# 4646
 Delta R.T. -0.01 min
 Lab File: BE089577.D
 Acq: 8 Feb 2015 4:55

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 276 Resp: 12930
 Ion Ratio Lower Upper
 276 100
 138 12.3 23.0 34.4#
 277 22.8 19.9 29.9

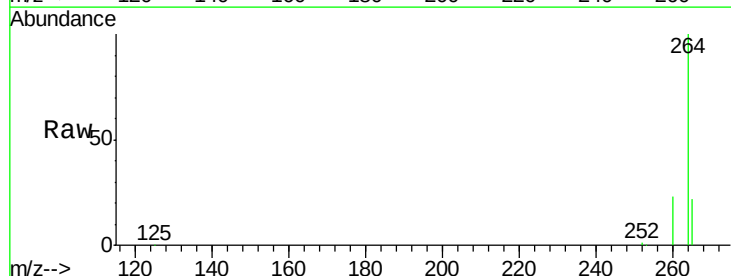


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

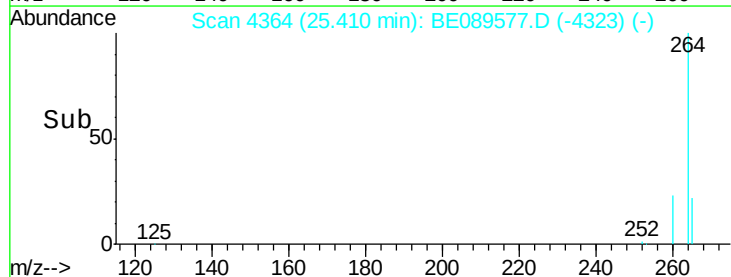
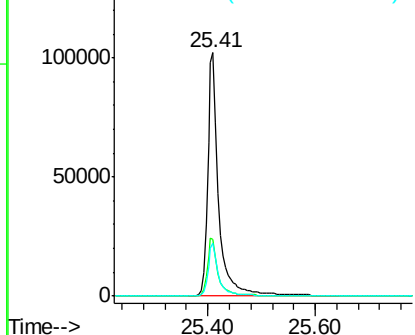


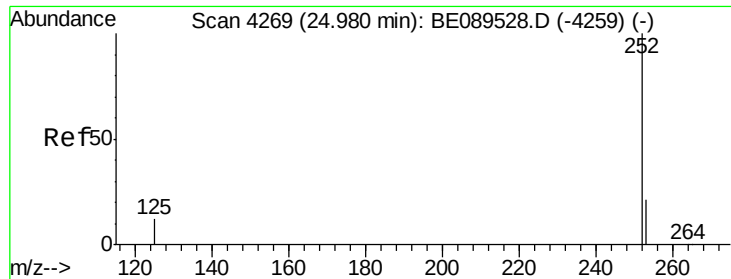
#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.41 min Scan# 4364
 Delta R.T. -0.01 min
 Lab File: BE089577.D
 Acq: 8 Feb 2015 4:55

Tgt Ion: 264 Resp: 149329
 Ion Ratio Lower Upper
 264 100
 260 23.3 18.7 28.1
 265 21.7 17.5 26.3



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.10 ng

RT: 24.97 min Scan# 4267

Delta R.T. -0.01 min

Lab File: BE089577.D

Acq: 8 Feb 2015 4:55

Instrument :

BNA_E

ClientSampleId :

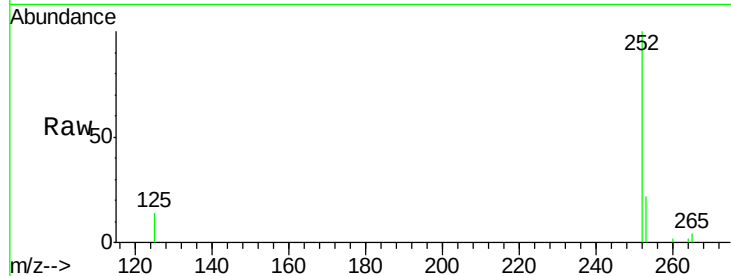
Tgt Ion:252 Resp: 2882

Ion Ratio Lower Upper

252 100

253 21.8 17.4 26.0

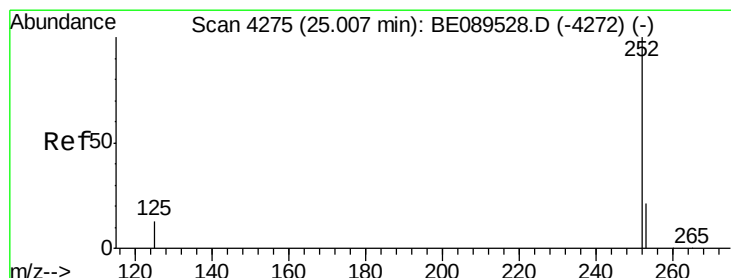
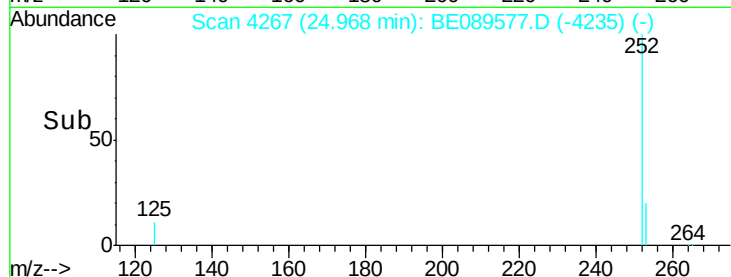
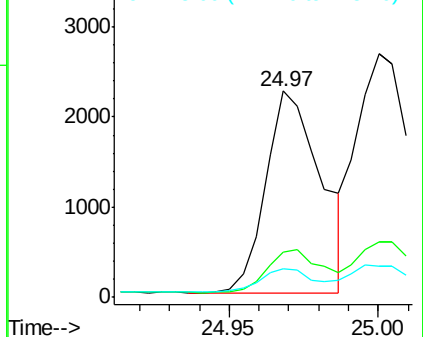
125 13.9 10.4 15.6



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



#24

Benzo(k)fluoranthene

Concen: 0.15 ng

RT: 25.00 min Scan# 4274

Delta R.T. -0.01 min

Lab File: BE089577.D

Acq: 8 Feb 2015 4:55

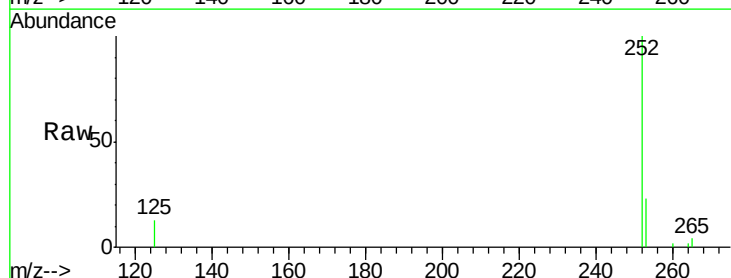
Tgt Ion:252 Resp: 5387

Ion Ratio Lower Upper

252 100

253 22.8 17.2 25.8

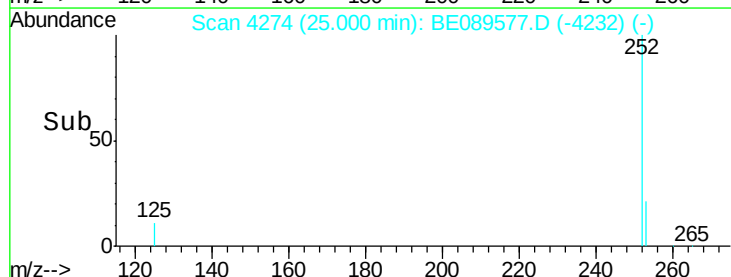
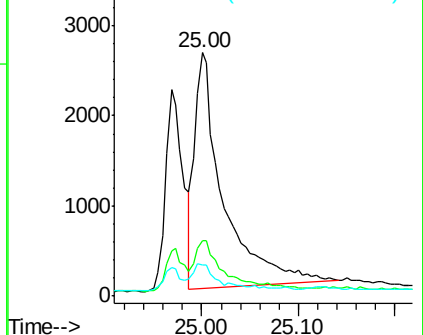
125 12.9 10.6 15.8

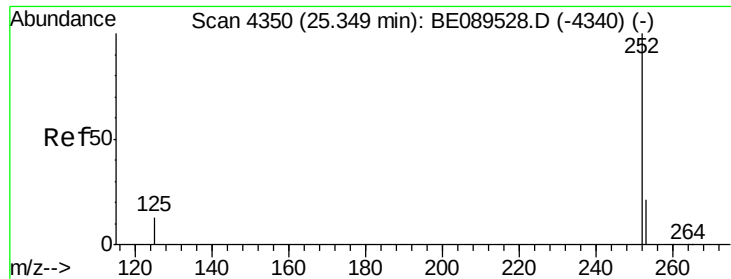


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

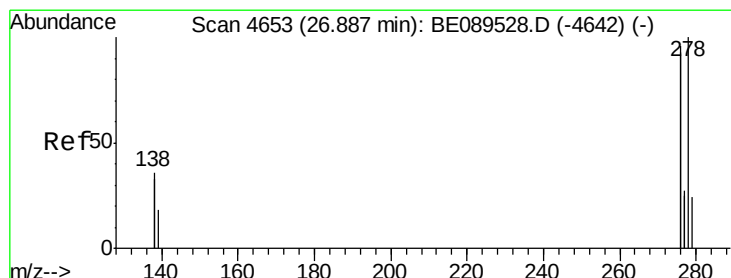
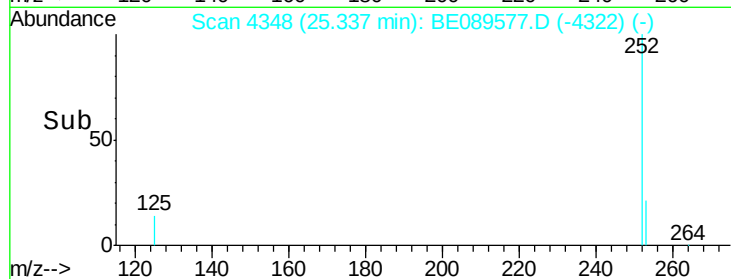
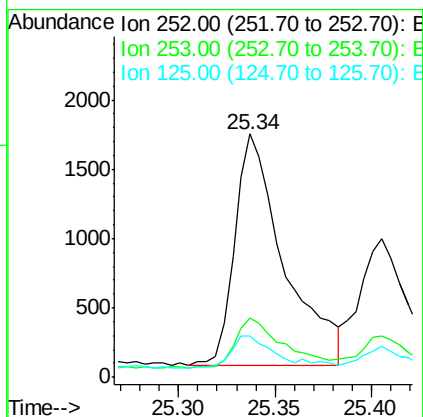
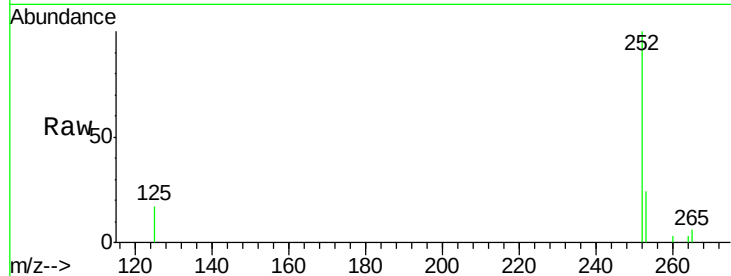




#25
Benzo(a)pyrene
Concen: 0.10 ng
RT: 25.34 min Scan# 4348
Delta R.T. -0.01 min
Lab File: BE089577.D
Acq: 8 Feb 2015 4:55

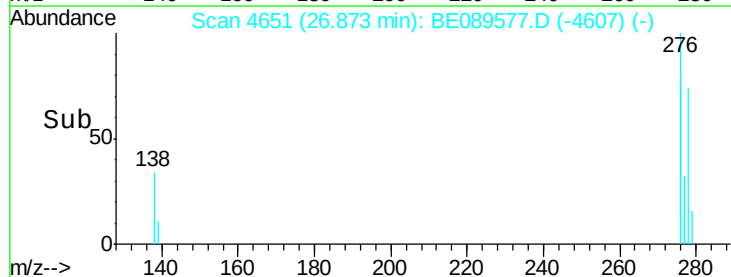
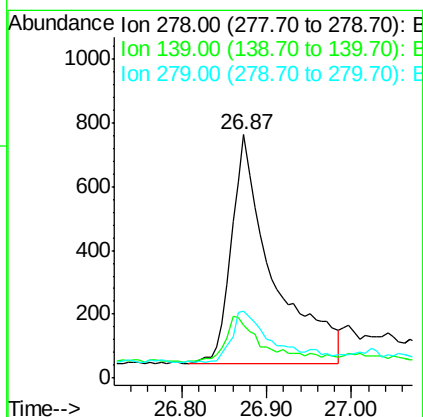
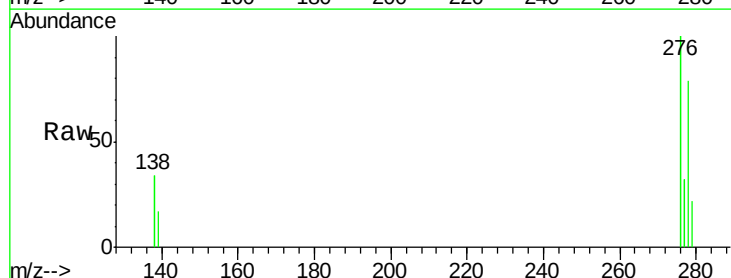
Instrument :
BNA_E
ClientSampleId :

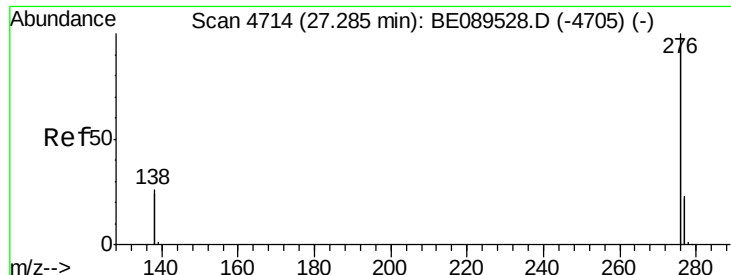
Tgt Ion: 252 Resp: 2956
Ion Ratio Lower Upper
252 100
253 24.3 17.8 26.6
125 17.1 11.4 17.2



#26
Dibenzo(a,h)anthracene
Concen: 0.07 ng
RT: 26.87 min Scan# 4651
Delta R.T. -0.01 min
Lab File: BE089577.D
Acq: 8 Feb 2015 4:55

Tgt Ion: 278 Resp: 2408
Ion Ratio Lower Upper
278 100
139 21.6 15.7 23.5
279 27.3 19.5 29.3

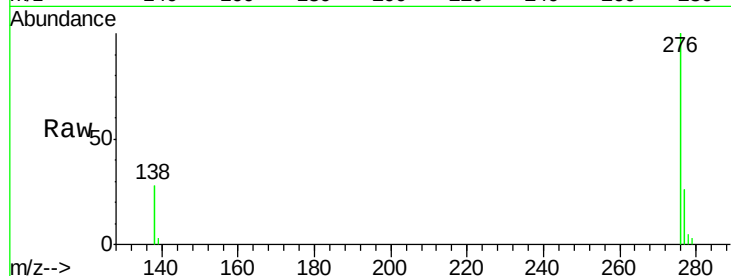




#27
 Benzo(g,h,i)perylene
 Concen: 0.09 ng
 RT: 27.26 min Scan# 4711
 Delta R.T. -0.02 min
 Lab File: BE089577.D
 Acq: 8 Feb 2015 4:55

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.5	18.6	27.8
138	28.2	20.9	31.3



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

