

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089576.D
 Acq On : 8 Feb 2015 4:16
 Operator : TP/IZ
 Sample : MDL-04-W
 Misc : MDL-WATER-0.2/0.4
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 09 00:26:09 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	53563	5.00	ng	0.00
2) Naphthalene-d8	12.32	136	221522	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	111779	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	188569	5.00	ng	0.00
16) Chrysene-d12	23.72	240	178553	5.00	ng	0.00
22) Perylene-d12	25.41	264	162762	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.69	82	135361	9.20	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	221538	7.43	ng	0.00
18) Terphenyl-d14	22.36	244	227787	9.67	ng	0.00

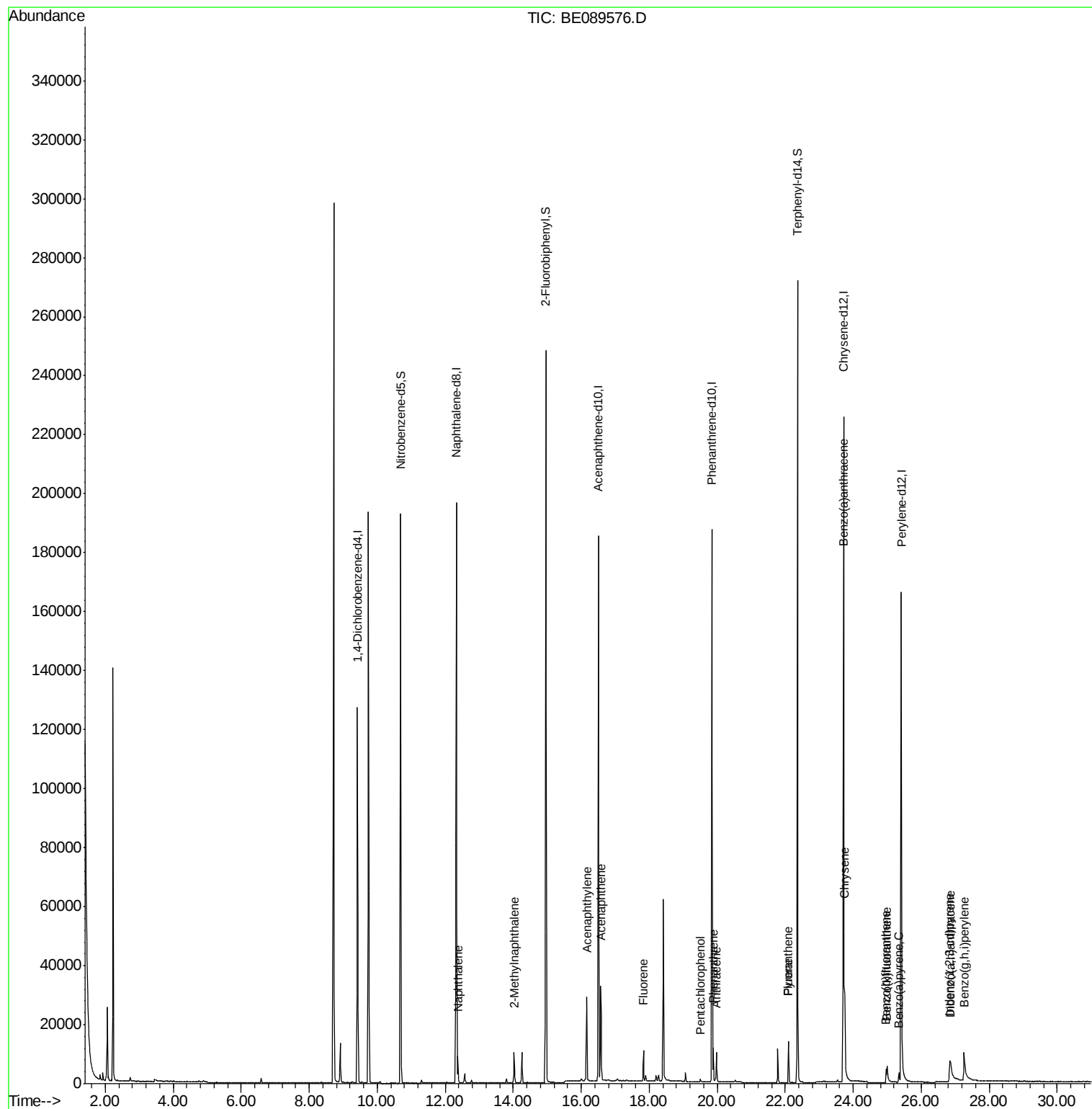
Target Compounds						Qvalue
4) Naphthalene	12.37	128	9878	0.20	ng	99
5) 2-Methylnaphthalene	14.03	142	6512	0.23	ng	95
8) Acenaphthylene	16.16	152	37679	0.20	ng	100
9) Acenaphthene	16.58	154	6358	0.21	ng	98
10) Fluorene	17.83	166	6758	0.21	ng	100
12) Pentachlorophenol	19.51	266	761	1.05	ng	90
13) Phenanthrene	19.89	178	11046	0.24	ng	98
14) Anthracene	19.98	178	9042	0.23	ng	100
15) Fluoranthene	22.10	202	10097	0.23	ng	99
17) Pyrene	22.10	202	10097	0.27	ng	99
19) Benzo(a)anthracene	23.70	228	33209	0.21	ng	96
20) Chrysene	23.75	228	39998	0.25	ng	98
21) Indeno(1,2,3-cd)pyrene	26.84	276	21937	0.10	ng	98
23) Benzo(b)fluoranthene	24.97	252	4299	0.14	ng	97
24) Benzo(k)fluoranthene	25.00	252	9122	0.23	ng	99
25) Benzo(a)pyrene	25.34	252	4536	0.14	ng	98
26) Dibenzo(a,h)anthracene	26.87	278	4185	0.11	ng	96
27) Benzo(g,h,i)perylene	27.27	276	24714	0.16	ng	95

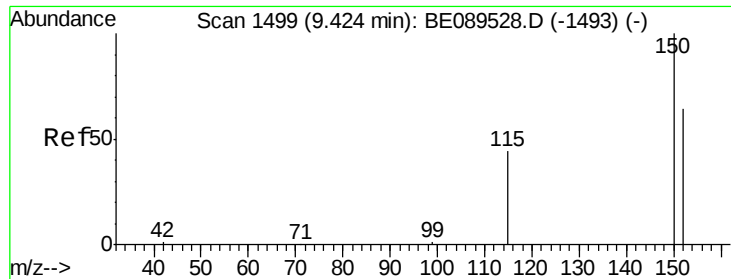
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089576.D

Acq: 8 Feb 2015 4:16

Instrument :

BNA_E

ClientSampleId :

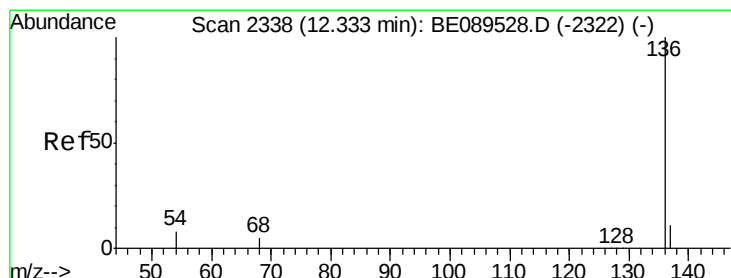
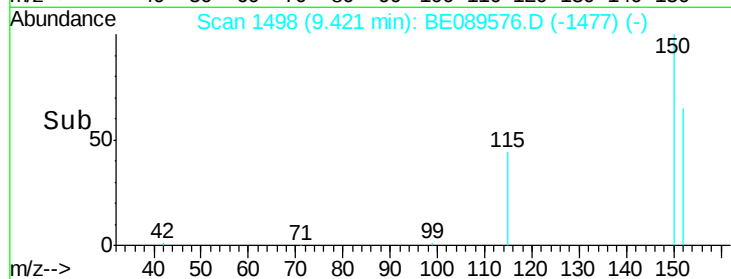
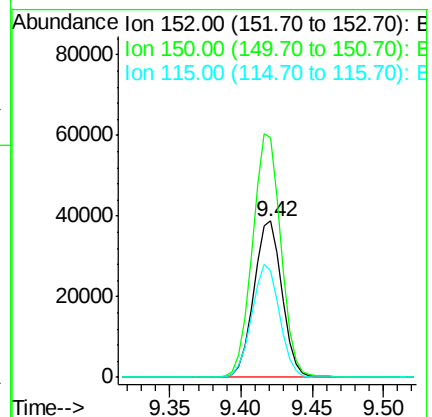
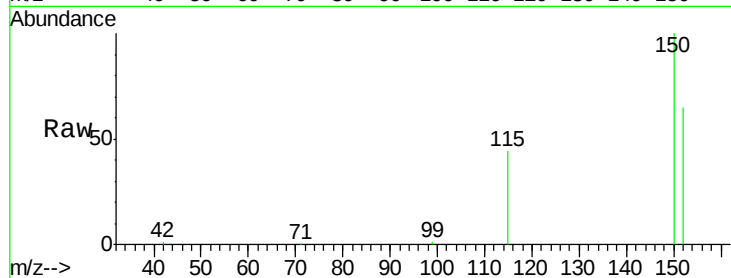
Tgt Ion:152 Resp: 53563

Ion Ratio Lower Upper

152 100

150 153.1 125.7 188.5

115 68.1 55.6 83.4



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.32 min Scan# 2337

Delta R.T. -0.01 min

Lab File: BE089576.D

Acq: 8 Feb 2015 4:16

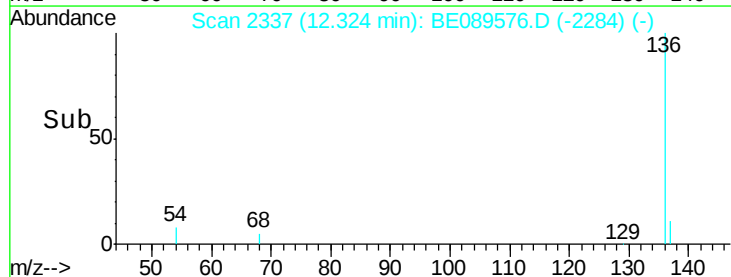
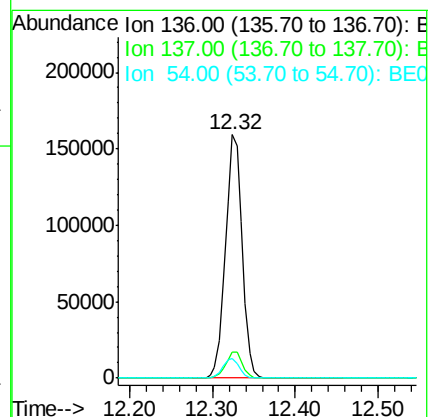
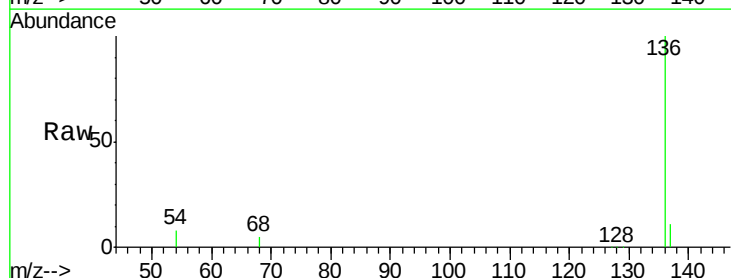
Tgt Ion:136 Resp: 221522

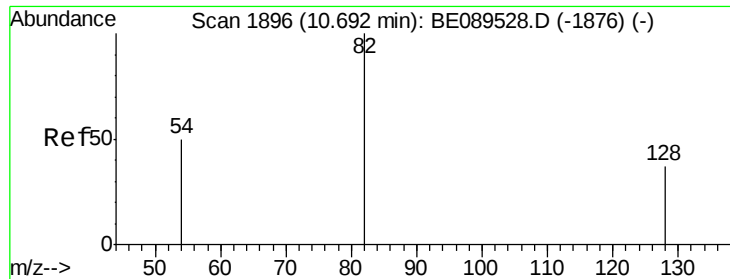
Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

54 7.9 6.1 9.1





#3

Nitrobenzene-d5

Concen: 9.20 ng

RT: 10.69 min Scan# 1894

Delta R.T. -0.01 min

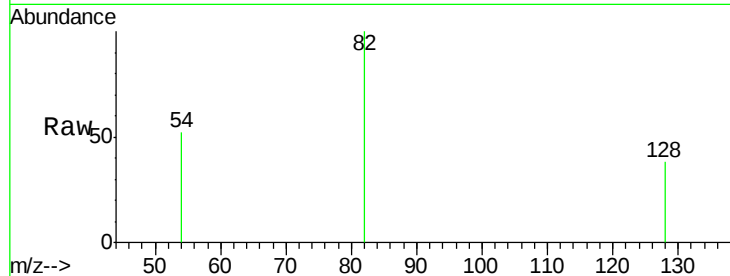
Lab File: BE089576.D

Acq: 8 Feb 2015 4:16

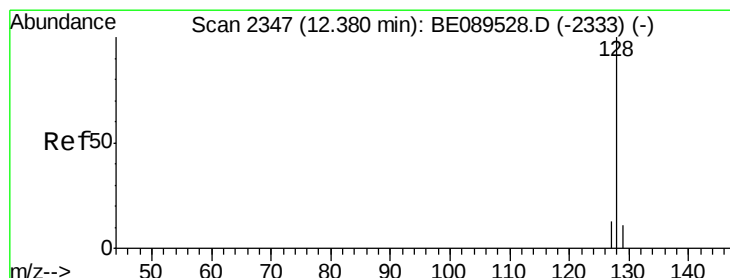
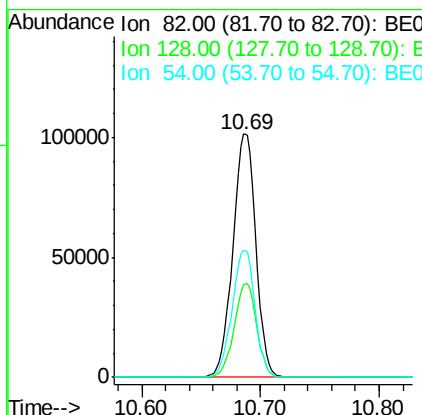
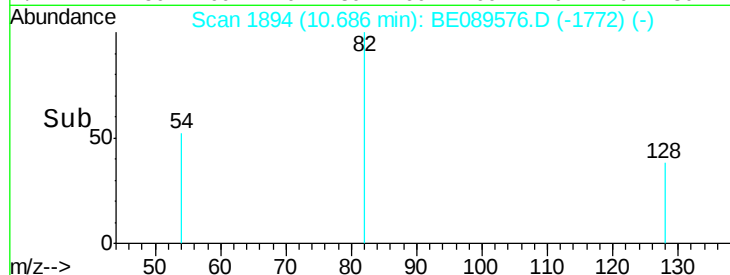
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	82	Resp:	135361
Ion	Ratio	Lower	Upper
82	100		
128	37.9	30.2	45.4
54	52.5	40.6	60.8



#4

Naphthalene

Concen: 0.20 ng

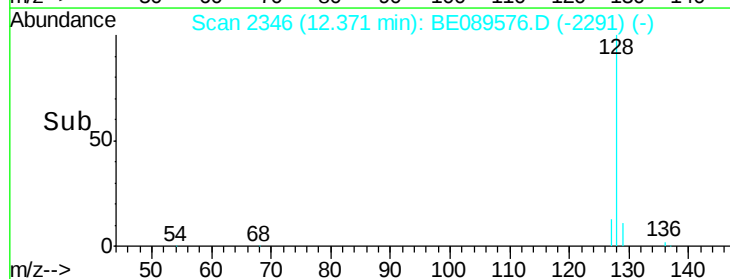
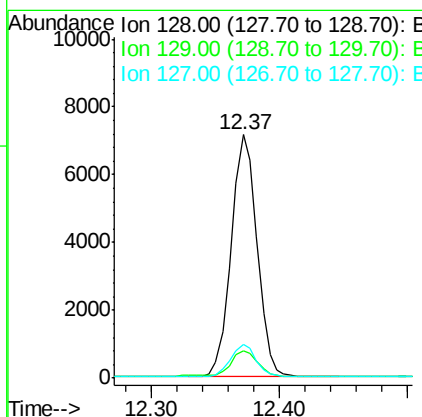
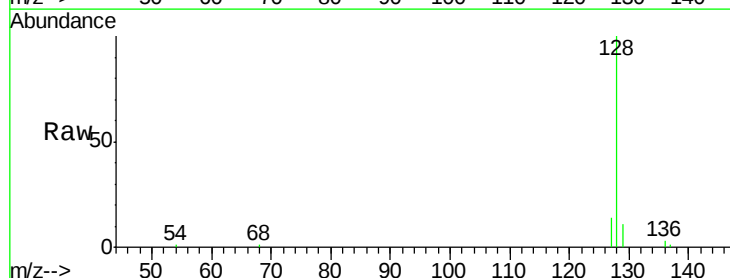
RT: 12.37 min Scan# 2346

Delta R.T. -0.01 min

Lab File: BE089576.D

Acq: 8 Feb 2015 4:16

Tgt Ion:	128	Resp:	9878
Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.1	13.7
127	13.8	10.5	15.7





#5

2-Methylnaphthalene

Concen: 0.23 ng

RT: 14.03 min Scan# 2678

Delta R.T. -0.01 min

Lab File: BE089576.D

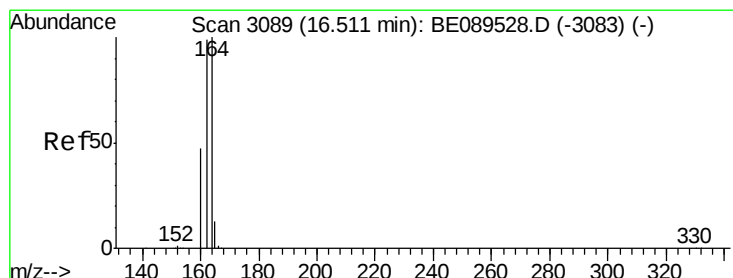
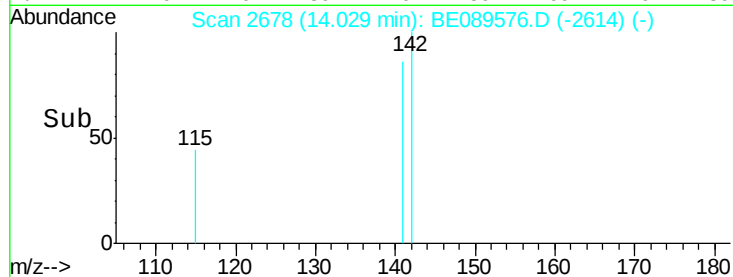
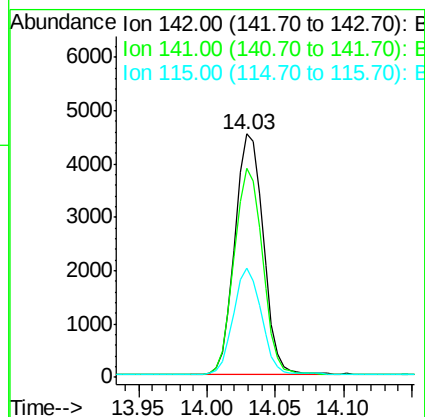
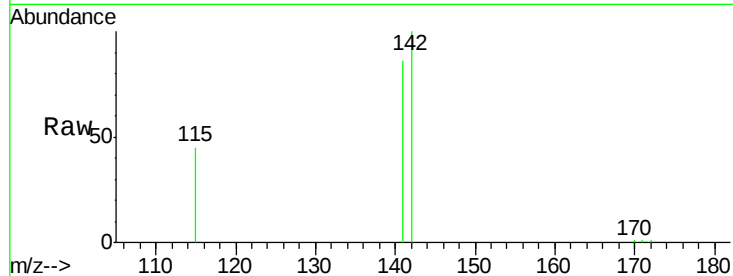
Acq: 8 Feb 2015 4:16

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	6512
Ion Ratio	Lower	Upper	
142	100		
141	86.0	67.0	100.6
115	45.0	30.6	45.8



#6

Acenaphthene-d10

Concen: 5.00 ng

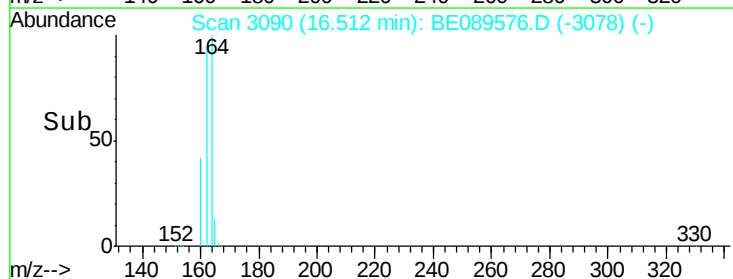
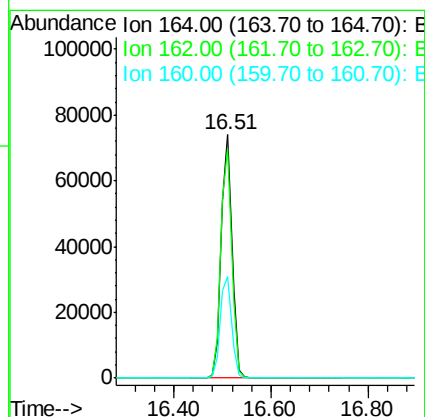
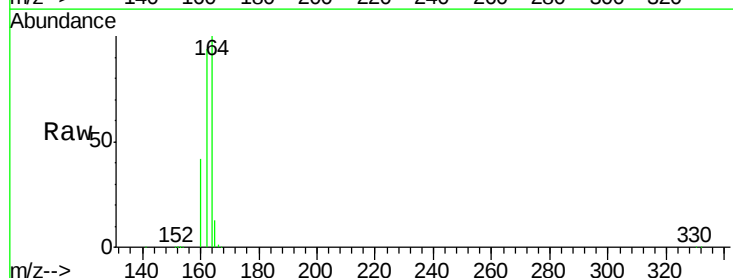
RT: 16.51 min Scan# 3090

Delta R.T. 0.00 min

Lab File: BE089576.D

Acq: 8 Feb 2015 4:16

Tgt Ion:	164	Resp:	111779
Ion Ratio	Lower	Upper	
164	100		
162	94.1	79.5	119.3
160	41.5	37.6	56.4





#7

2-Fluorobiphenyl

Concen: 7.43 ng

RT: 14.96 min Scan# 2883

Delta R.T. -0.00 min

Lab File: BE089576.D

Acq: 8 Feb 2015 4:16

Instrument :

BNA_E

ClientSampleId :

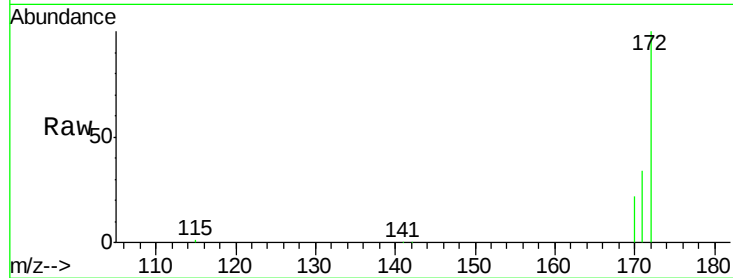
Tgt Ion:172 Resp: 221538

Ion Ratio Lower Upper

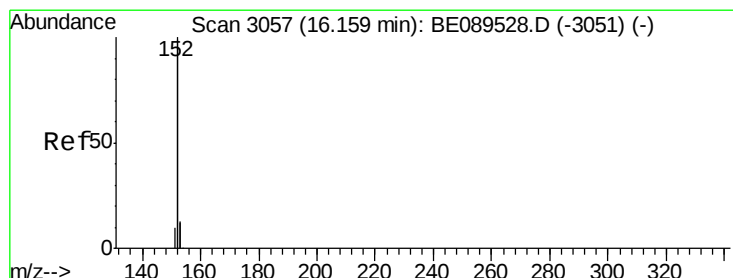
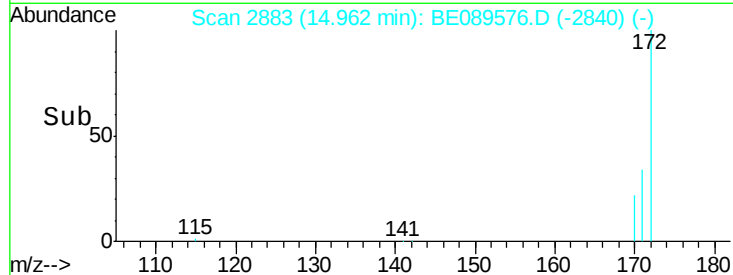
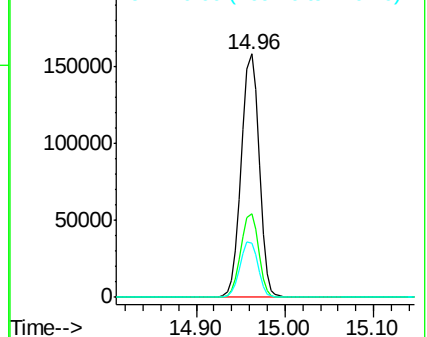
172 100

171 34.3 27.7 41.5

170 22.3 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: 0.20 ng

RT: 16.16 min Scan# 3058

Delta R.T. 0.00 min

Lab File: BE089576.D

Acq: 8 Feb 2015 4:16

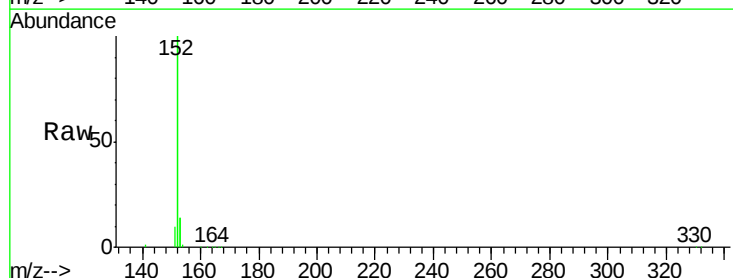
Tgt Ion:152 Resp: 37679

Ion Ratio Lower Upper

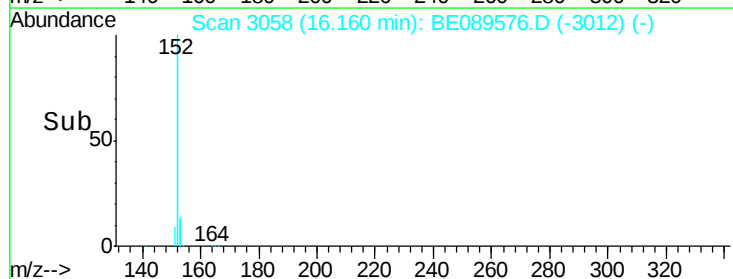
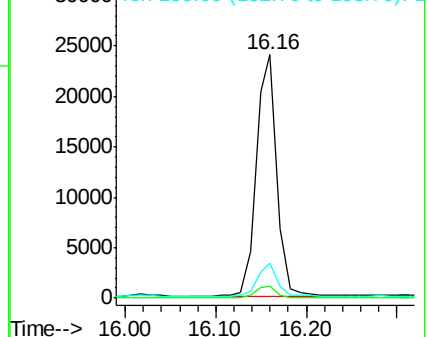
152 100

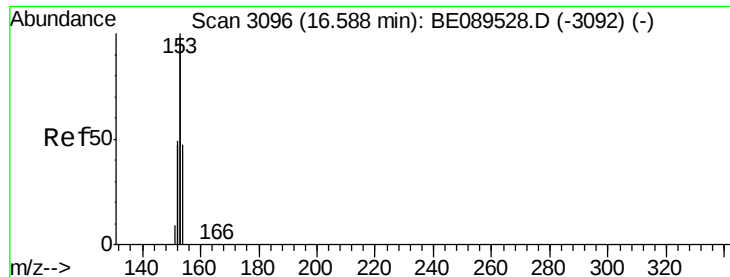
151 4.8 4.0 6.0

153 13.3 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: 0.21 ng

RT: 16.58 min Scan# 3096

Delta R.T. -0.01 min

Lab File: BE089576.D

Acq: 8 Feb 2015 4:16

Instrument :

BNA_E

ClientSampleId :

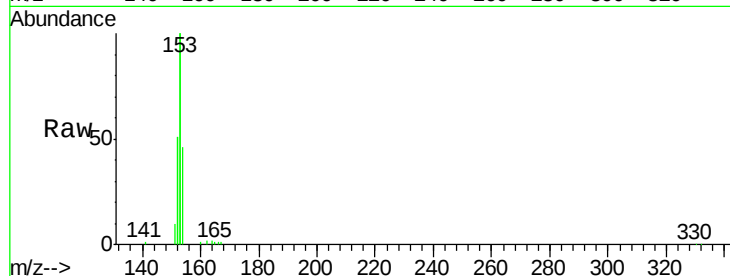
Tgt Ion:154 Resp: 6358

Ion Ratio Lower Upper

154 100

153 431.1 340.8 511.2

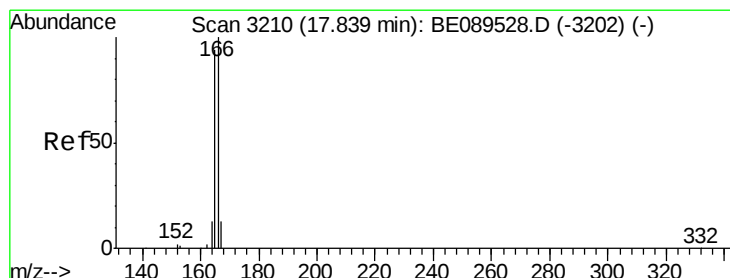
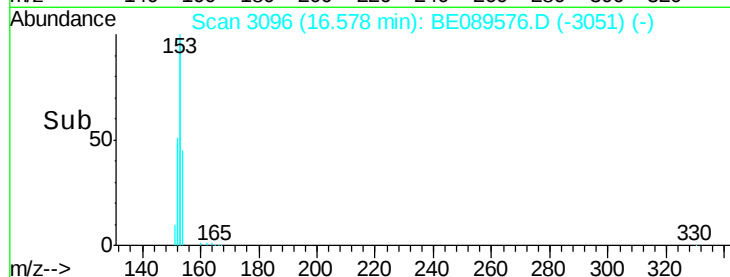
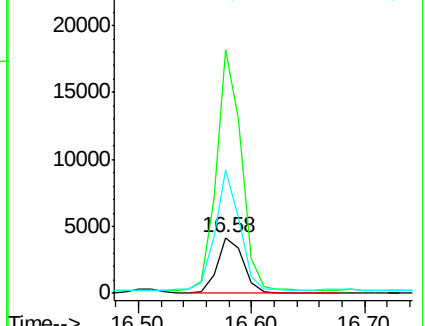
152 210.5 165.5 248.3



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: 0.21 ng

RT: 17.83 min Scan# 3210

Delta R.T. -0.01 min

Lab File: BE089576.D

Acq: 8 Feb 2015 4:16

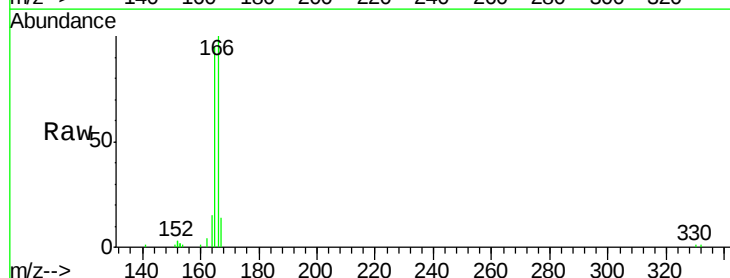
Tgt Ion:166 Resp: 6758

Ion Ratio Lower Upper

166 100

165 94.4 75.5 113.3

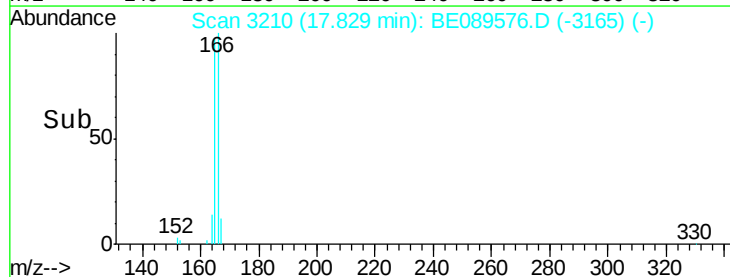
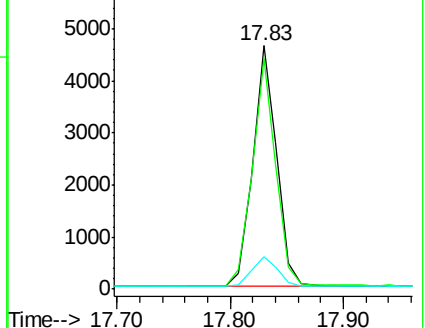
167 13.5 10.9 16.3

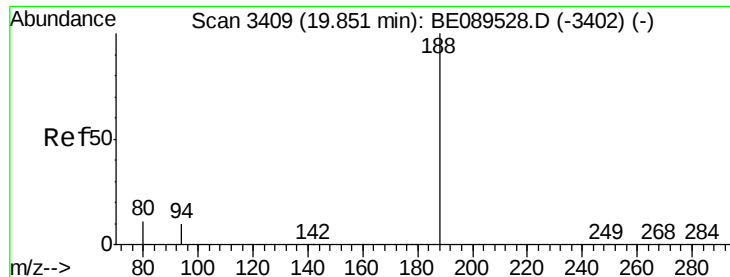


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

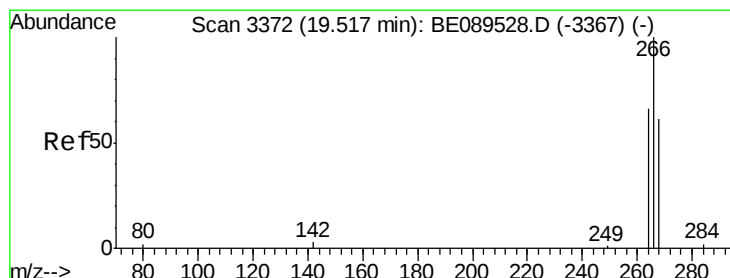
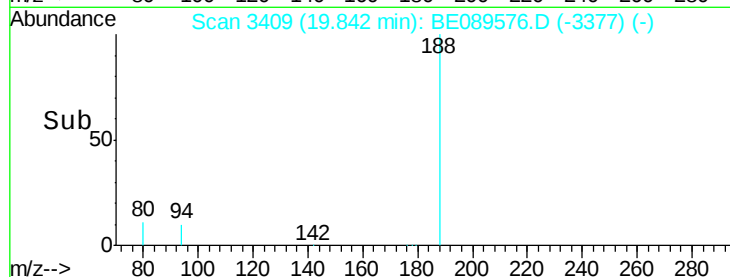
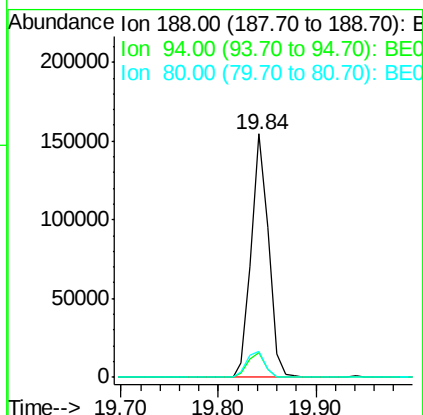
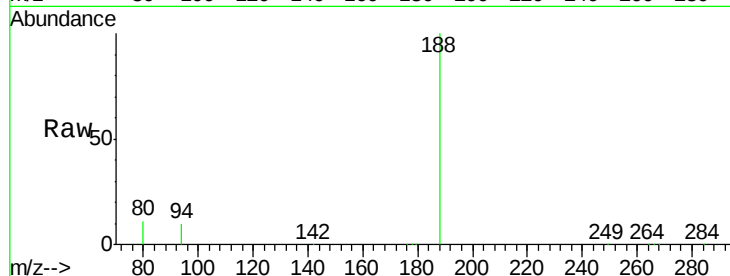




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.84 min Scan# 3409
Delta R.T. -0.01 min
Lab File: BE089576.D
Acq: 8 Feb 2015 4:16

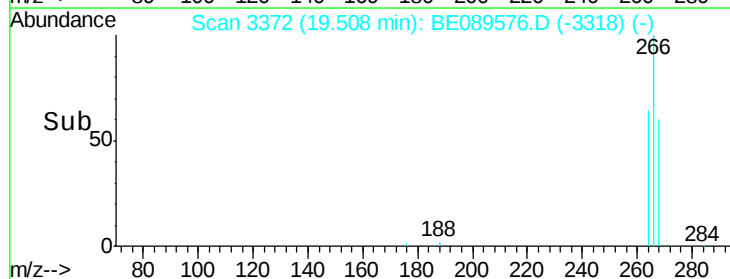
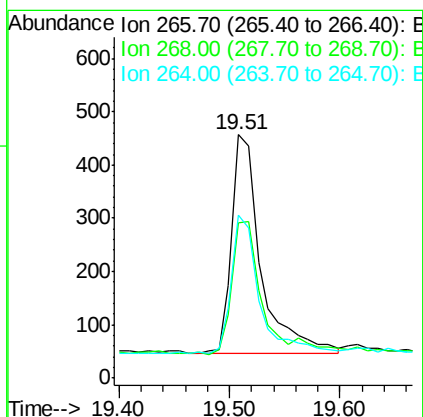
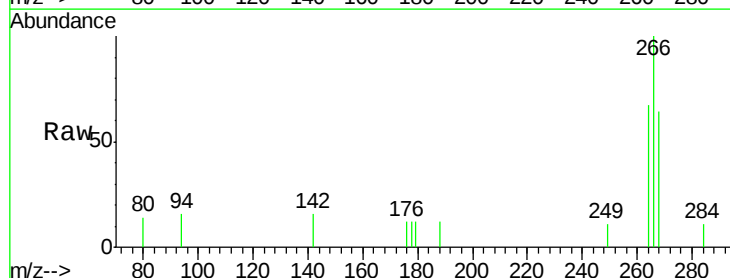
Instrument :
BNA_E
ClientSampleId :

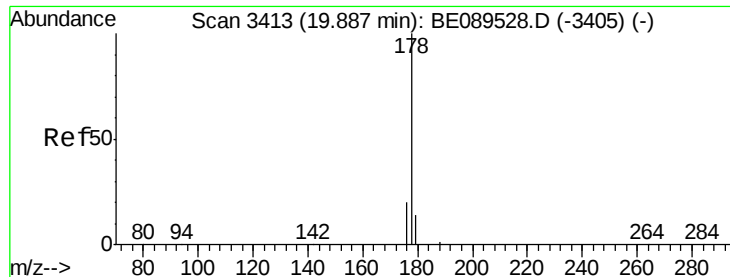
Tgt Ion:188 Resp: 188569
Ion Ratio Lower Upper
188 100
94 10.1 8.4 12.6
80 10.8 8.6 12.8



#12
Pentachlorophenol
Concen: 1.05 ng
RT: 19.51 min Scan# 3372
Delta R.T. -0.01 min
Lab File: BE089576.D
Acq: 8 Feb 2015 4:16

Tgt Ion:266 Resp: 761
Ion Ratio Lower Upper
266 100
268 63.9 57.9 86.9
264 67.2 60.2 90.4

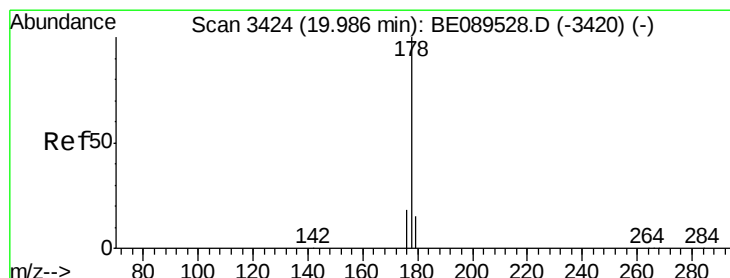
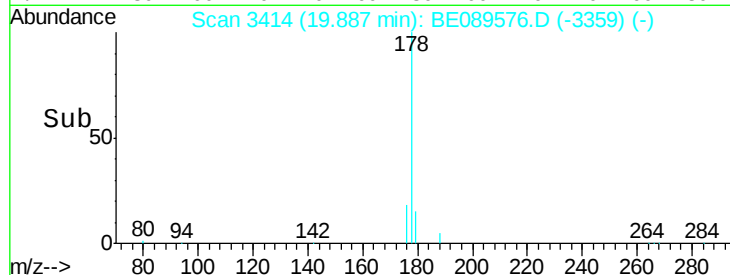
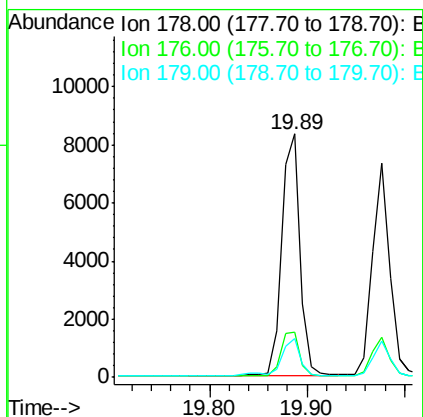
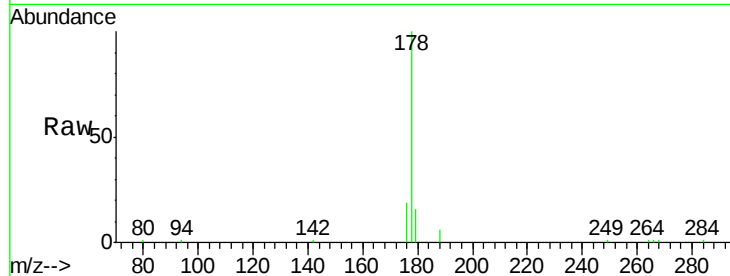




#13
Phenanthrene
Concen: 0.24 ng
RT: 19.89 min Scan# 3414
Delta R.T. -0.00 min
Lab File: BE089576.D
Acq: 8 Feb 2015 4:16

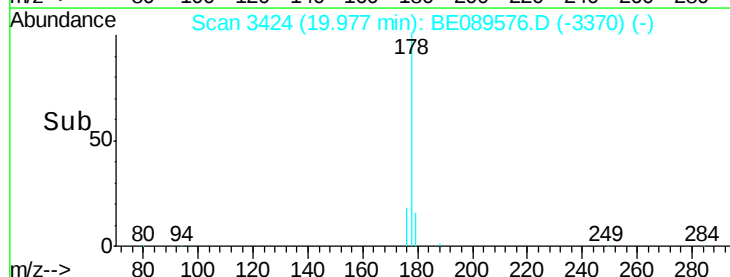
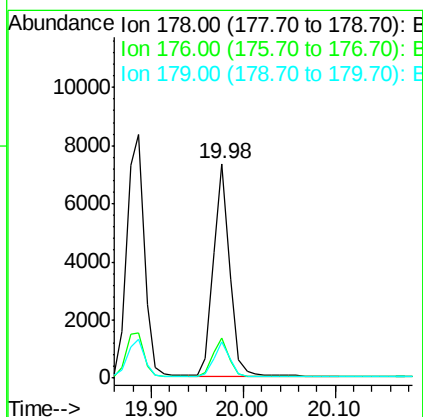
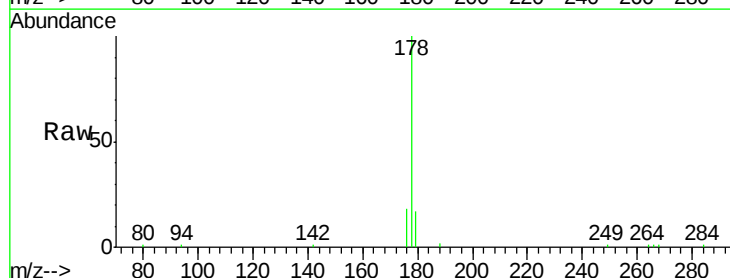
Instrument :
BNA_E
ClientSampleId :

Tgt Ion:178 Resp: 11046
Ion Ratio Lower Upper
178 100
176 18.7 15.4 23.0
179 16.3 12.2 18.2



#14
Anthracene
Concen: 0.23 ng
RT: 19.98 min Scan# 3424
Delta R.T. -0.01 min
Lab File: BE089576.D
Acq: 8 Feb 2015 4:16

Tgt Ion:178 Resp: 9042
Ion Ratio Lower Upper
178 100
176 18.2 14.5 21.7
179 15.5 12.2 18.2

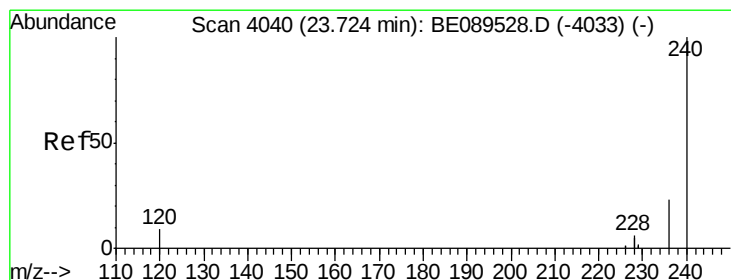
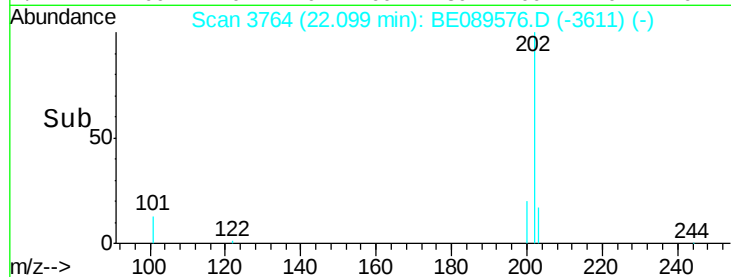
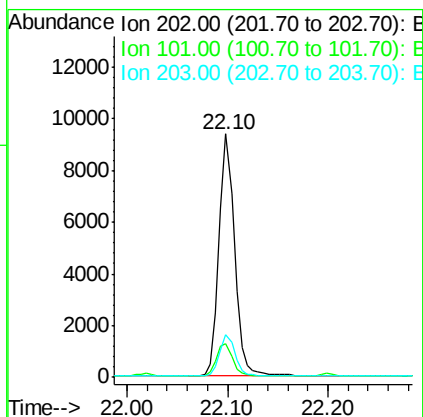
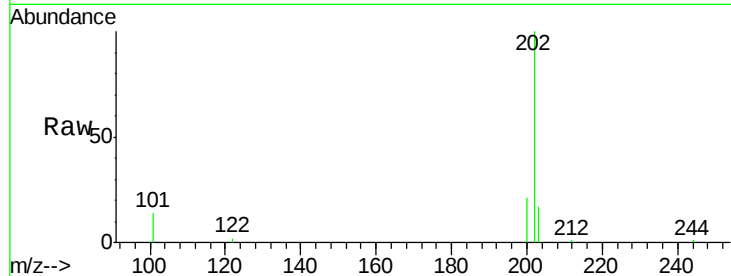




#15
 Fluoranthene
 Concen: 0.23 ng
 RT: 22.10 min Scan# 3764
 Delta R.T. 0.31 min
 Lab File: BE089576.D
 Acq: 8 Feb 2015 4:16

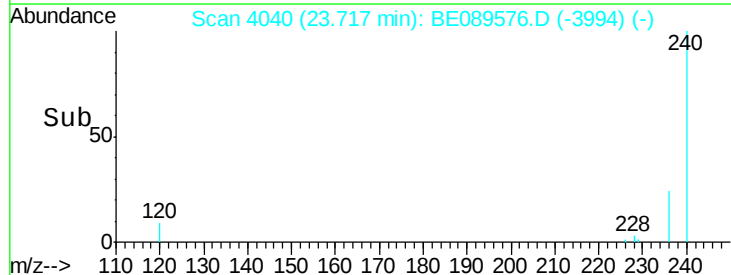
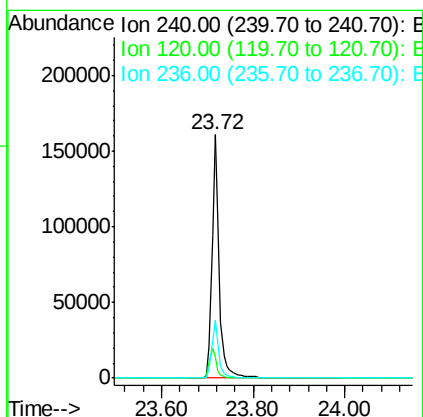
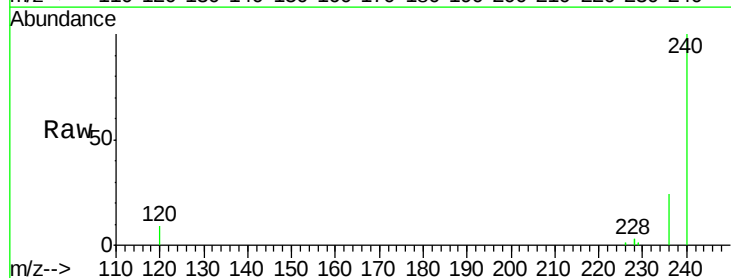
Instrument :
 BNA_E
 ClientSampleId :

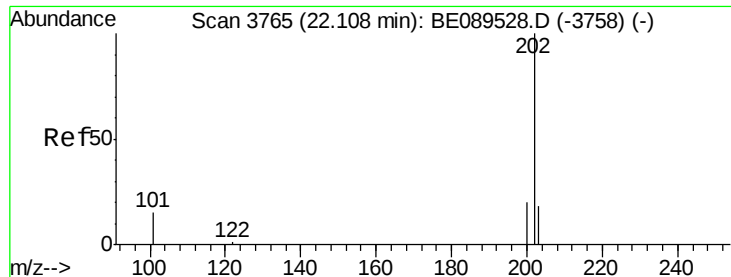
Tgt Ion: 202 Resp: 10097
 Ion Ratio Lower Upper
 202 100
 101 14.0 11.6 17.4
 203 17.3 13.6 20.4



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.72 min Scan# 4040
 Delta R.T. -0.01 min
 Lab File: BE089576.D
 Acq: 8 Feb 2015 4:16

Tgt Ion: 240 Resp: 178553
 Ion Ratio Lower Upper
 240 100
 120 8.6 7.2 10.8
 236 23.7 18.5 27.7

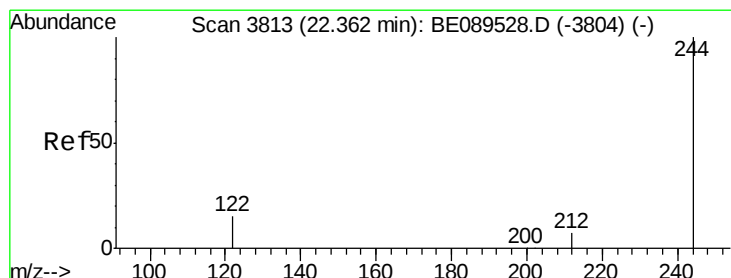
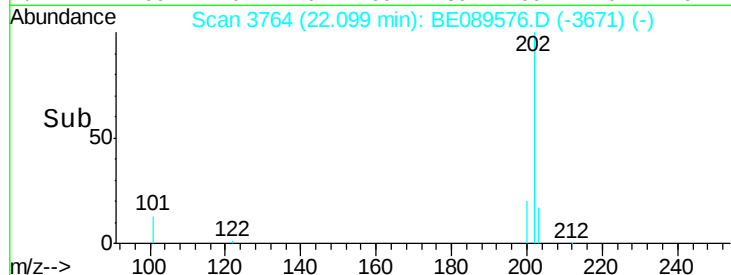
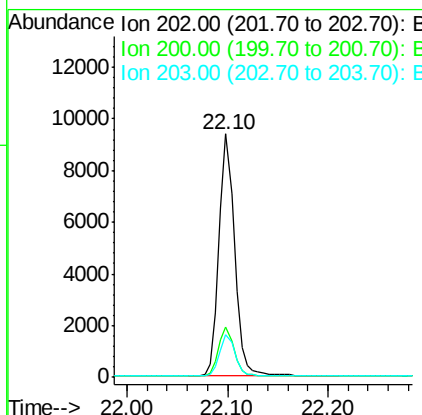
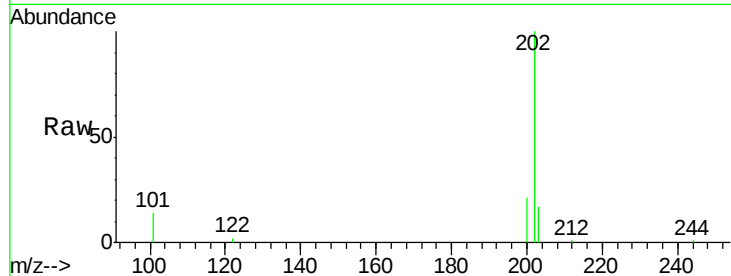




#17
 Pyrene
 Concen: 0.27 ng
 RT: 22.10 min Scan# 3764
 Delta R.T. -0.01 min
 Lab File: BE089576.D
 Acq: 8 Feb 2015 4:16

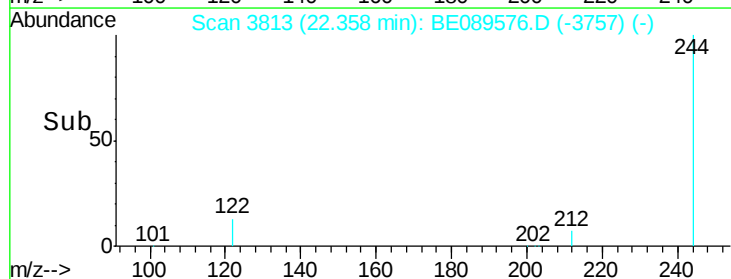
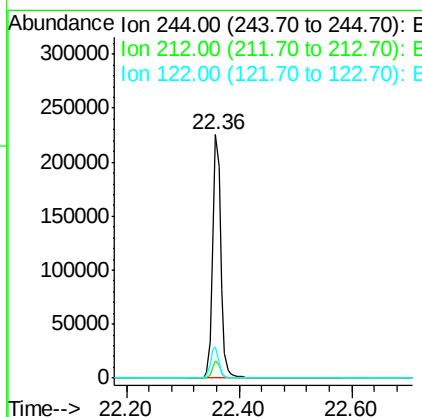
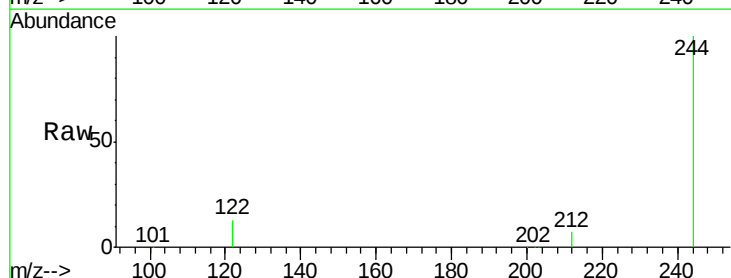
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 202 Resp: 10097
 Ion Ratio Lower Upper
 202 100
 200 20.2 16.3 24.5
 203 17.3 13.5 20.3



#18
 Terphenyl-d14
 Concen: 9.67 ng
 RT: 22.36 min Scan# 3813
 Delta R.T. -0.00 min
 Lab File: BE089576.D
 Acq: 8 Feb 2015 4:16

Tgt Ion: 244 Resp: 227787
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.8 8.8
 122 12.9 12.6 19.0





#19

Benzo(a)anthracene

Concen: 0.21 ng

RT: 23.70 min Scan# 4038

Delta R.T. -0.01 min

Lab File: BE089576.D

Acq: 8 Feb 2015 4:16

Instrument :

BNA_E

ClientSampleId :

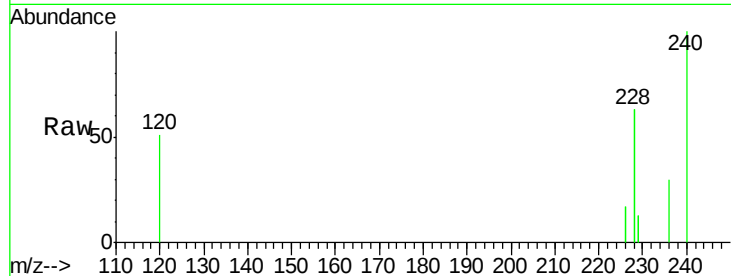
Tgt Ion:228 Resp: 33209

Ion Ratio Lower Upper

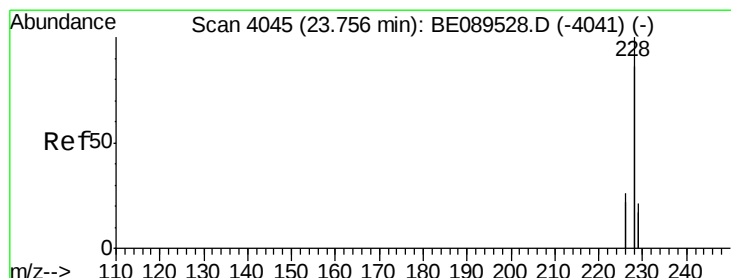
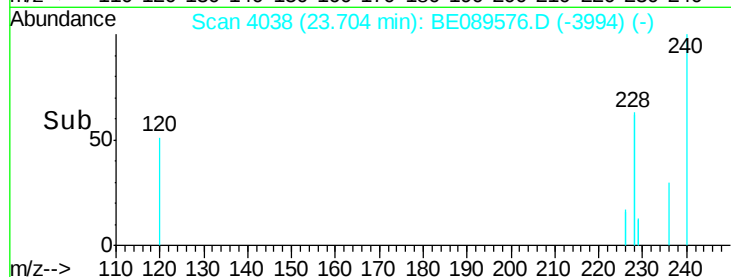
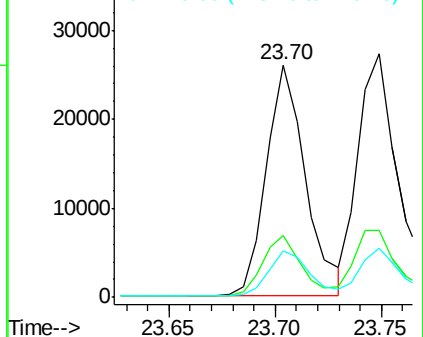
228 100

226 26.6 19.0 28.4

229 20.2 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: 0.25 ng

RT: 23.75 min Scan# 4045

Delta R.T. -0.01 min

Lab File: BE089576.D

Acq: 8 Feb 2015 4:16

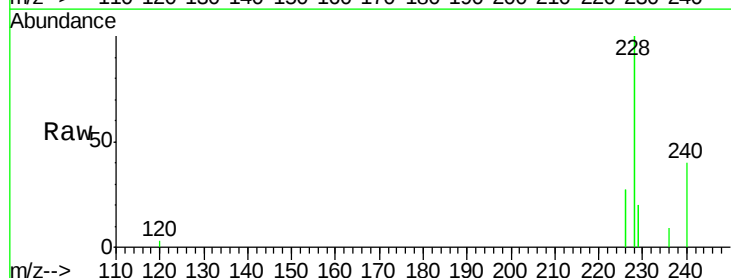
Tgt Ion:228 Resp: 39998

Ion Ratio Lower Upper

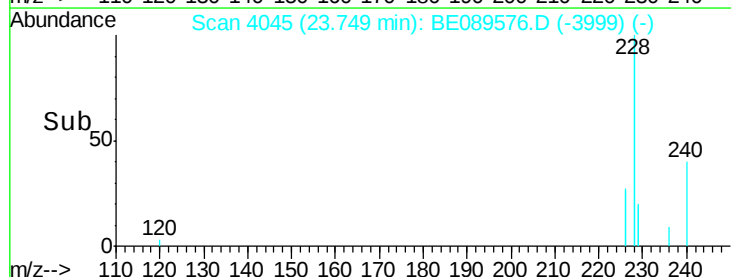
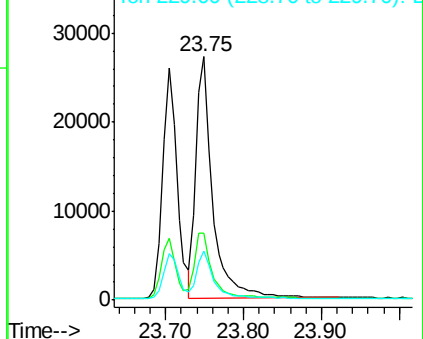
228 100

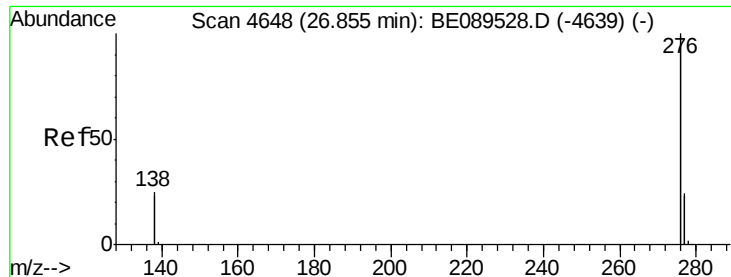
226 27.3 21.0 31.4

229 20.4 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: 0.10 ng

RT: 26.84 min Scan# 4647

Delta R.T. -0.01 min

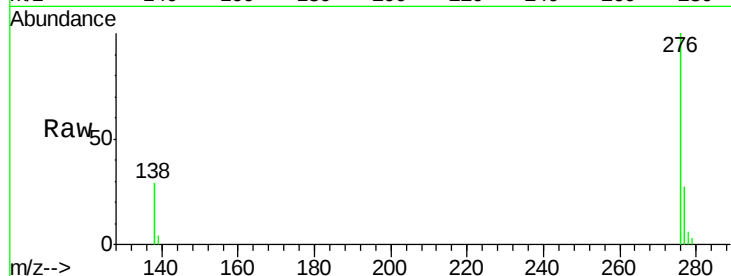
Lab File: BE089576.D

Acq: 8 Feb 2015 4:16

Instrument :

BNA_E

ClientSampleId :



Tgt Ion:276 Resp: 21937

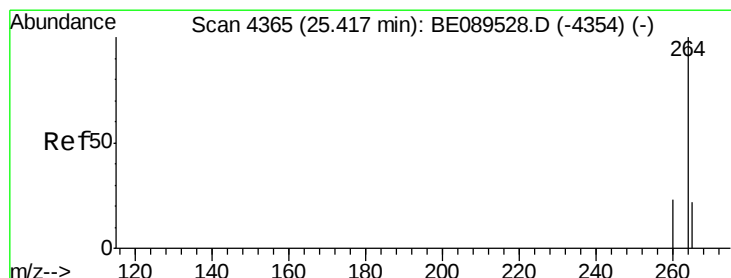
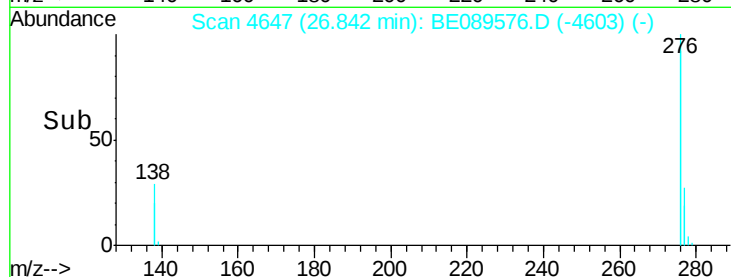
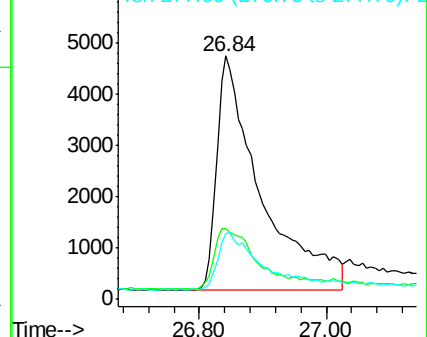
Ion Ratio Lower Upper

276 100

138 26.8 23.0 34.4

277 24.4 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# 4365

Delta R.T. -0.01 min

Lab File: BE089576.D

Acq: 8 Feb 2015 4:16

Tgt Ion:264 Resp: 162762

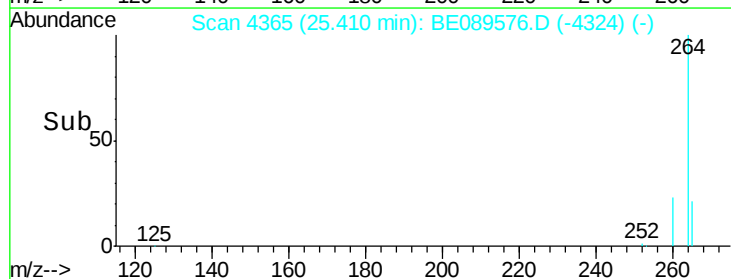
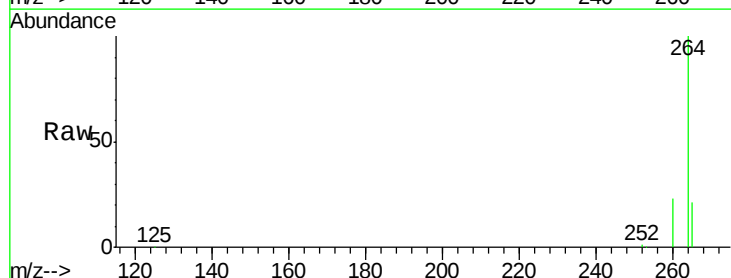
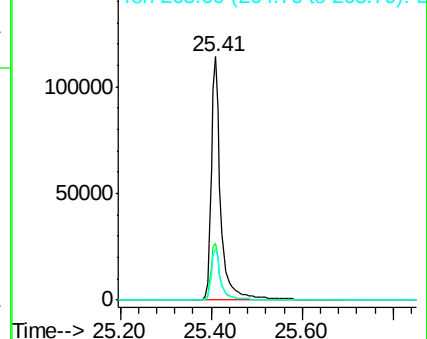
Ion Ratio Lower Upper

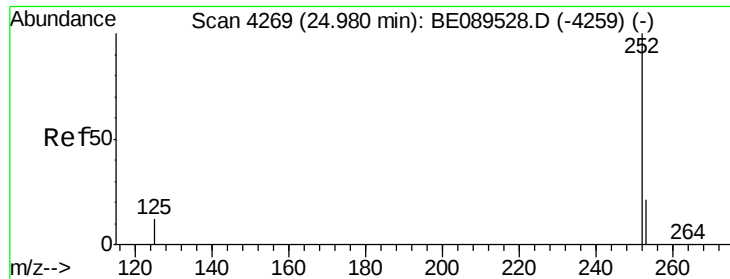
264 100

260 23.3 18.7 28.1

265 21.3 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: 0.14 ng

RT: 24.97 min Scan# 4269

Delta R.T. -0.01 min

Lab File: BE089576.D

Acq: 8 Feb 2015 4:16

Instrument :

BNA_E

ClientSampleId :

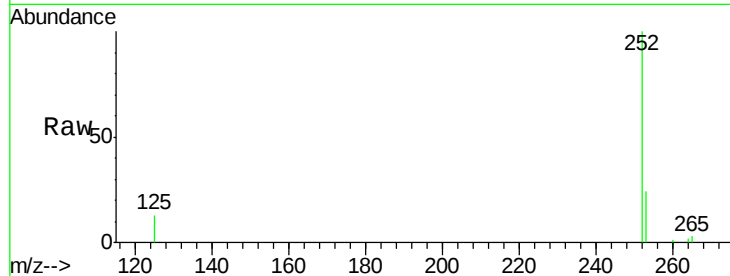
Tgt Ion:252 Resp: 4299

Ion Ratio Lower Upper

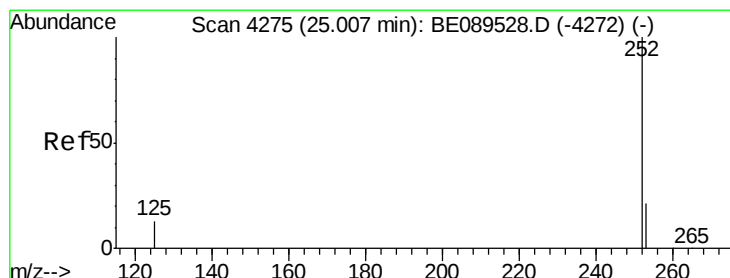
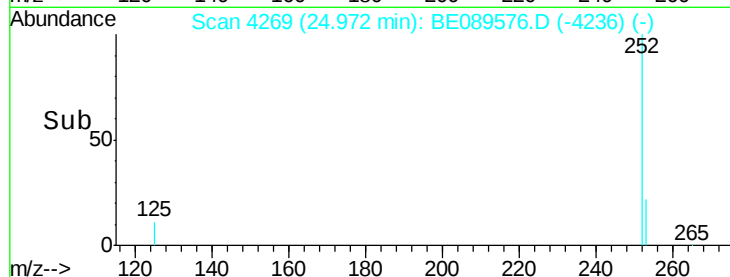
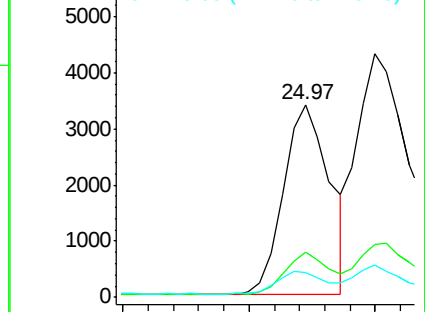
252 100

253 23.7 17.4 26.0

125 12.8 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: 0.23 ng

RT: 25.00 min Scan# 4275

Delta R.T. -0.01 min

Lab File: BE089576.D

Acq: 8 Feb 2015 4:16

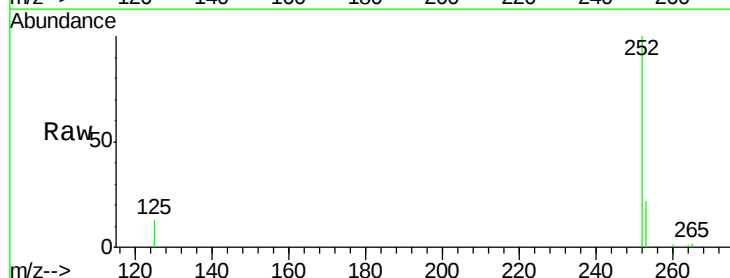
Tgt Ion:252 Resp: 9122

Ion Ratio Lower Upper

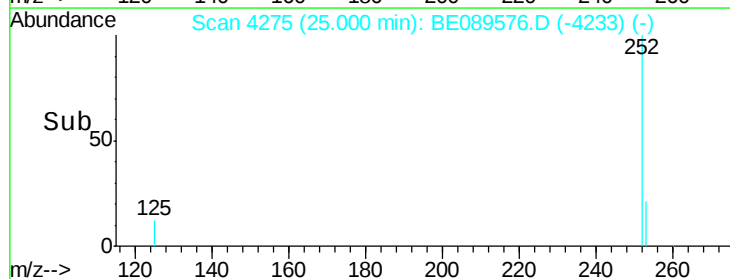
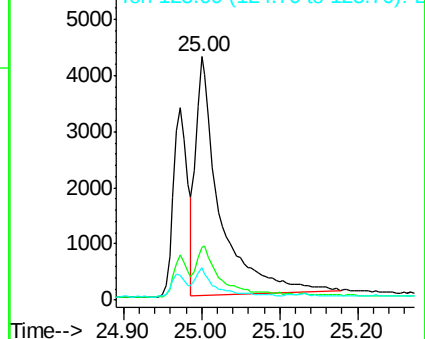
252 100

253 21.9 17.2 25.8

125 13.3 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: 0.14 ng

RT: 25.34 min Scan# 4349

Delta R.T. -0.01 min

Lab File: BE089576.D

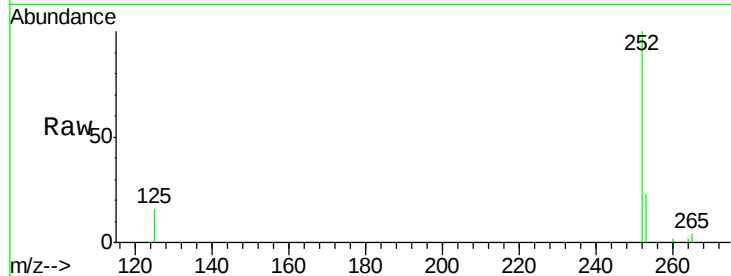
Acq: 8 Feb 2015 4:16

Instrument :

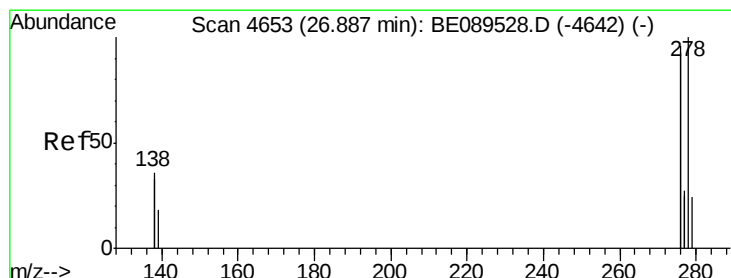
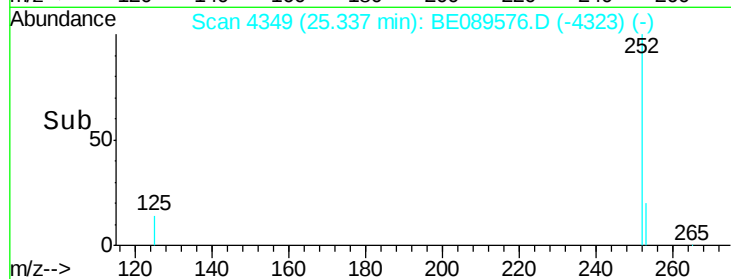
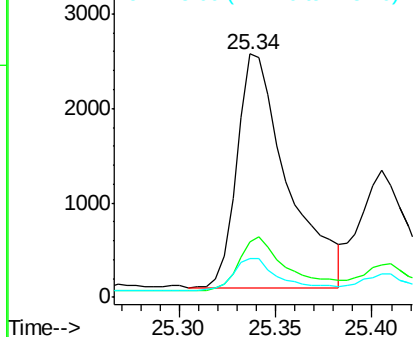
BNA_E

ClientSampleId :

Tgt Ion:	252	Resp:	4536
Ion Ratio	Lower	Upper	
252	100		
253	22.5	17.8	26.6
125	16.2	11.4	17.2



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



#26

Dibenzo(a,h)anthracene

Concen: 0.11 ng

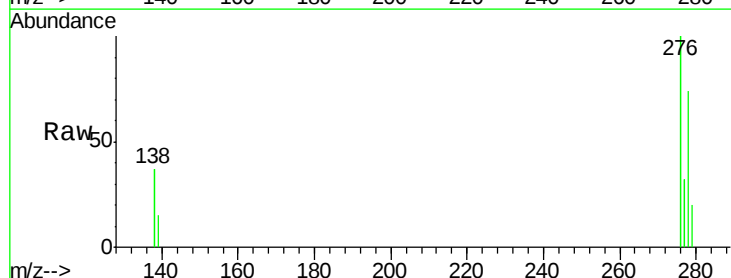
RT: 26.87 min Scan# 4652

Delta R.T. -0.01 min

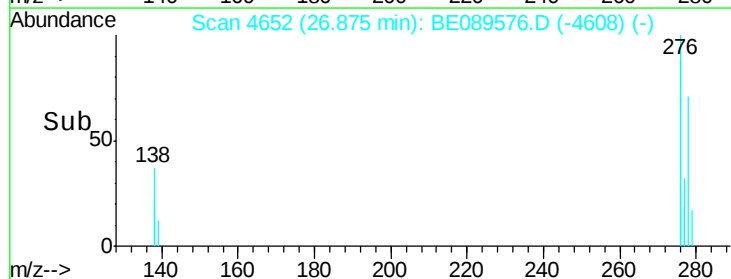
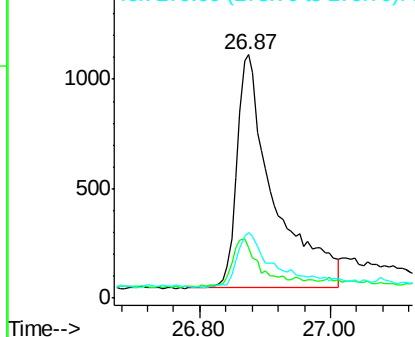
Lab File: BE089576.D

Acq: 8 Feb 2015 4:16

Tgt Ion:	278	Resp:	4185
Ion Ratio	Lower	Upper	
278	100		
139	20.5	15.7	23.5
279	26.9	19.5	29.3



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

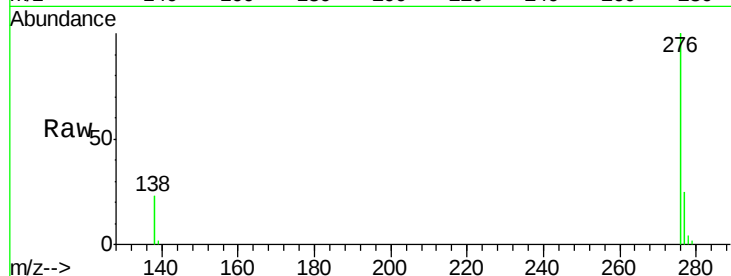




#27
 Benzo(g,h,i)perylene
 Concen: 0.16 ng
 RT: 27.27 min Scan# 4713
 Delta R.T. -0.01 min
 Lab File: BE089576.D
 Acq: 8 Feb 2015 4:16

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.1	18.6	27.8
138	22.8	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

