

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089477.D
 Acq On : 31 Jan 2015 20:41
 Operator : TP/IZ
 Sample : MDL-02-W
 Misc : MDL-WATER-0.2/0.4
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 03:41:09 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	56189	5.00	ng	0.00
2) Naphthalene-d8	12.50	136	230140	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	114236	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	177391	5.00	ng	0.00
16) Chrysene-d12	23.84	240	131971	5.00	ng	0.00
22) Perylene-d12	25.55	264	107556	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	132587	8.70	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	220431	7.32	ng	0.00
18) Terphenyl-d14	22.48	244	179620	9.09	ng	0.00

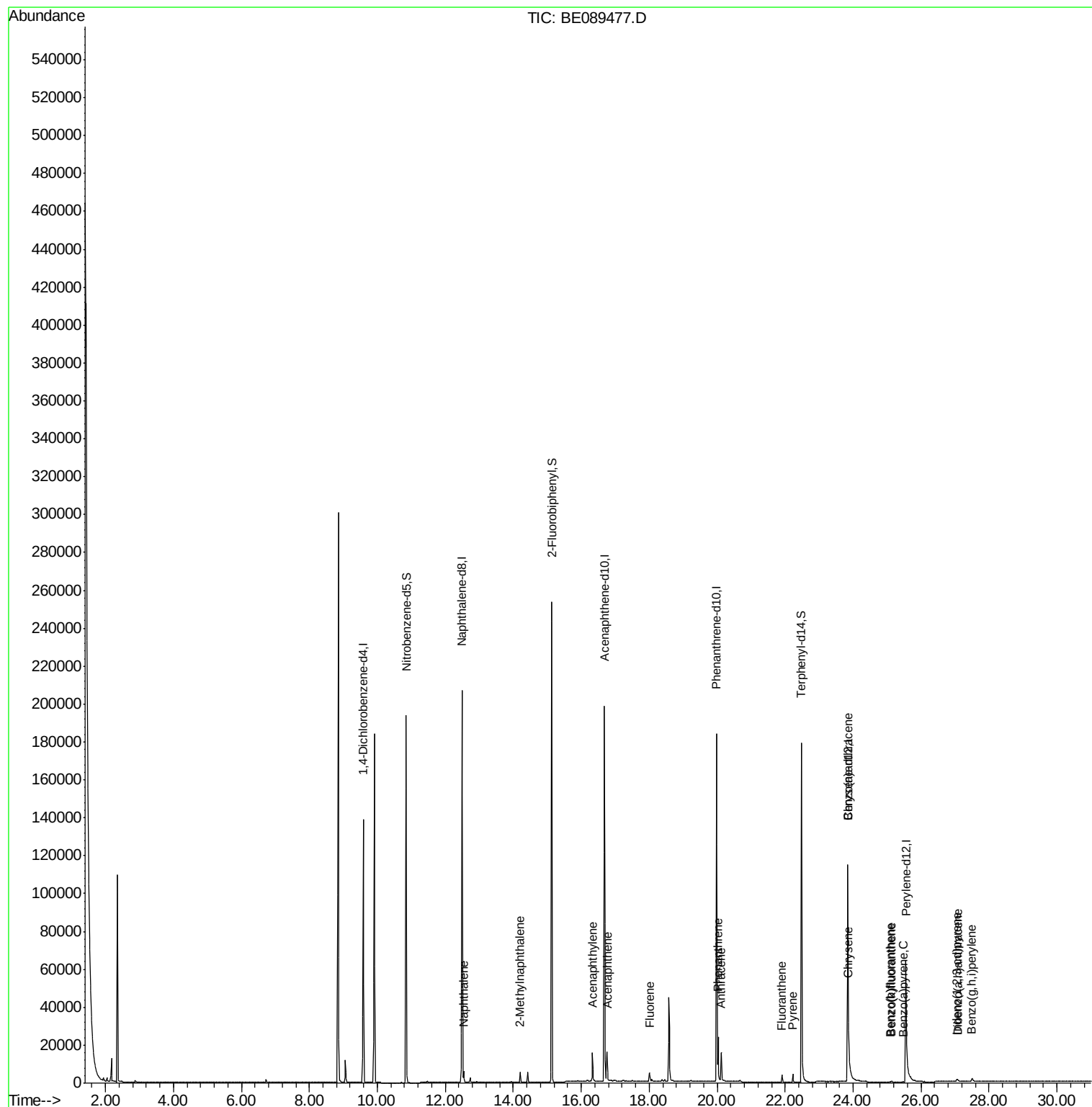
Target Compounds						Qvalue
4) Naphthalene	12.54	128	6734	0.12	ng	98
5) 2-Methylnaphthalene	14.20	142	3719	0.11	ng	97
8) Acenaphthylene	16.33	152	19521	0.10	ng	98
9) Acenaphthene	16.76	154	3392	0.11	ng	95
10) Fluorene	18.01	166	3526	0.10	ng	99
12) Pentachlorophenol	19.66	266	78	Below Cal	#	67
13) Phenanthrene	20.03	178	21844	0.13	ng	99
14) Anthracene	20.11	178	17179	0.11	ng	100
15) Fluoranthene	21.91	202	3649	0.10	ng	98
17) Pyrene	22.22	202	4016	0.11	ng	97
19) Benzo(a)anthracene	23.83	228	8813	0.08	ng	97
20) Chrysene	23.87	228	16992	0.14	ng	# 95
21) Indeno(1,2,3-cd)pyrene	27.05	276	2224	0.02	ng	# 89
23) Benzo(b)fluoranthene	25.09	252	568	0.21	ng	# 70
24) Benzo(k)fluoranthene	25.12	252	610	0.02	ng	# 74
25) Benzo(a)pyrene	25.47	252	666	0.15	ng	# 70
26) Dibenzo(a,h)anthracene	27.08	278	393	0.15	ng	# 55
27) Benzo(g,h,i)perylene	27.50	276	3063	0.04	ng	# 65

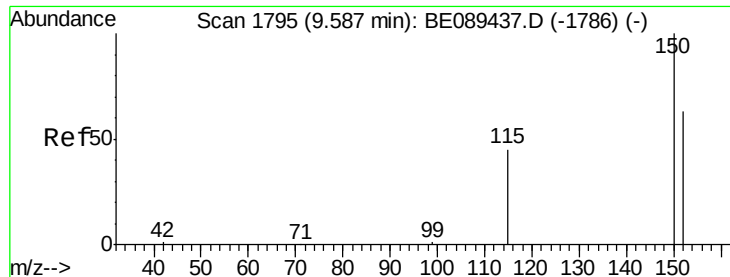
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.58 min Scan# 1794

Delta R.T. -0.01 min

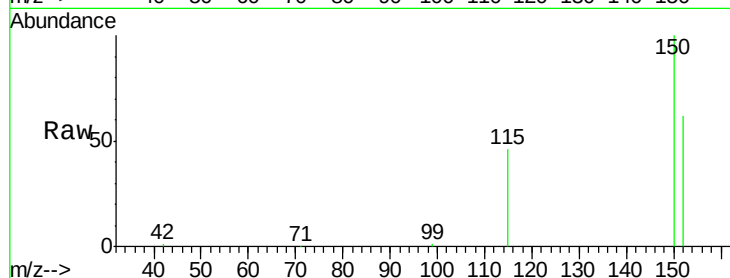
Lab File: BE089477.D

Acq: 31 Jan 2015 20:41

Instrument :

BNA_E

ClientSampleId :



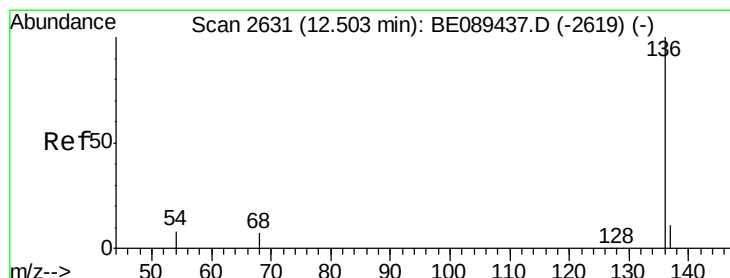
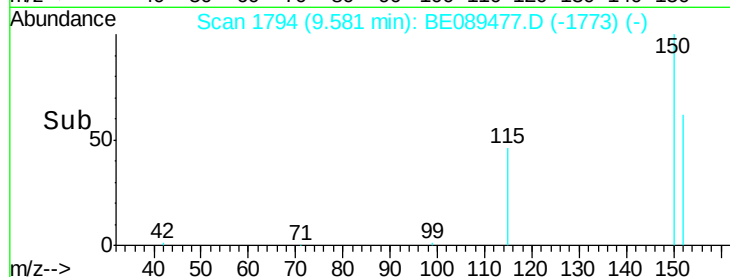
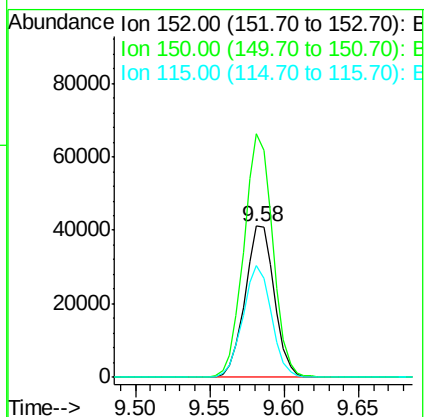
Tgt Ion:152 Resp: 56189

Ion Ratio Lower Upper

152 100

150 161.1 127.2 190.8

115 73.6 57.5 86.3



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.50 min Scan# 2630

Delta R.T. -0.01 min

Lab File: BE089477.D

Acq: 31 Jan 2015 20:41

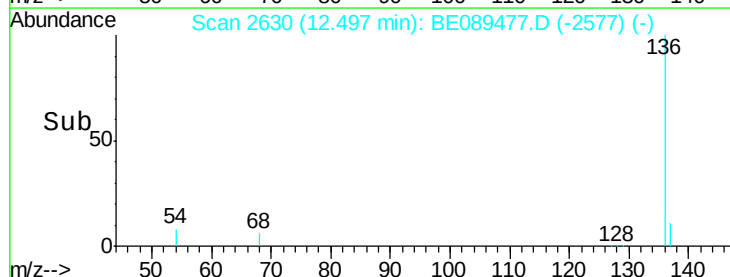
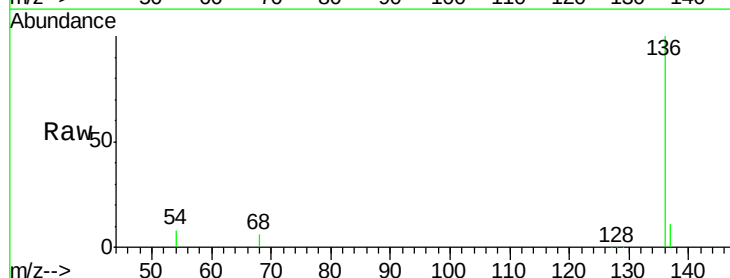
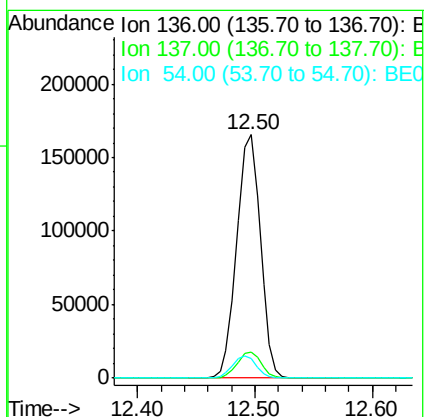
Tgt Ion:136 Resp: 230140

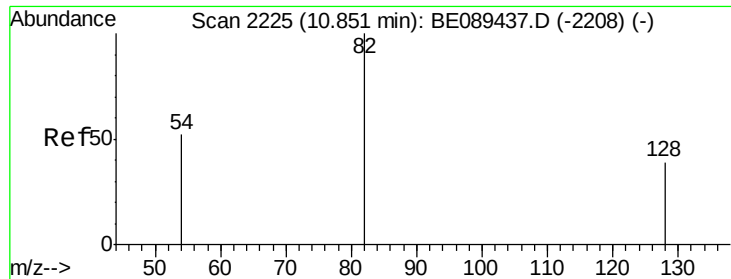
Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

54 7.9 6.6 10.0





#3

Nitrobenzene-d5

Concen: 8.70 ng

RT: 10.85 min Scan# 2223

Delta R.T. -0.01 min

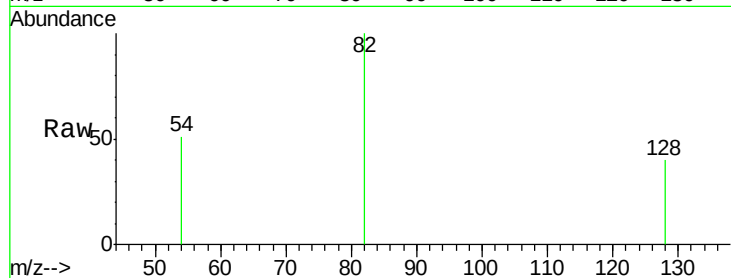
Lab File: BE089477.D

Acq: 31 Jan 2015 20:41

Instrument :

BNA_E

ClientSampleId :



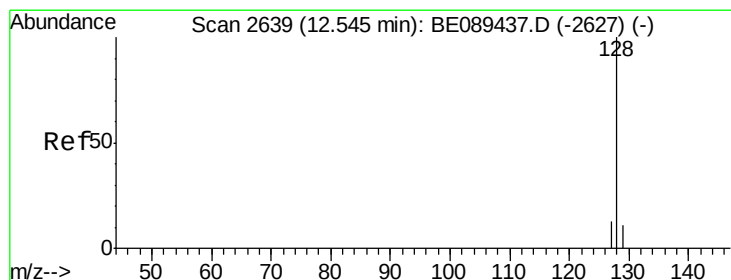
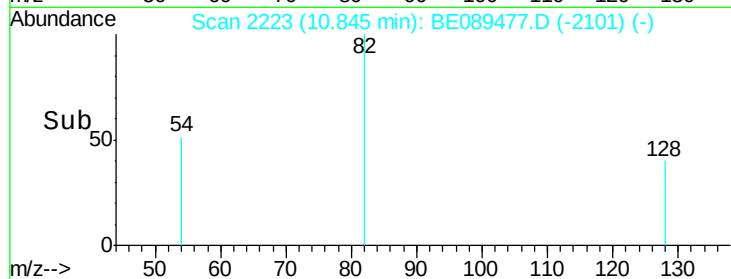
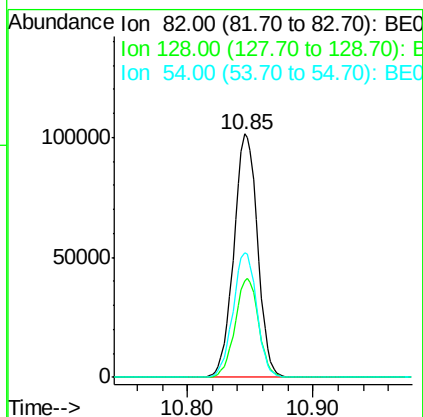
Tgt Ion: 82 Resp: 132587

Ion Ratio Lower Upper

82 100

128 39.9 31.2 46.8

54 51.3 41.9 62.9



#4

Naphthalene

Concen: 0.12 ng

RT: 12.54 min Scan# 2638

Delta R.T. -0.01 min

Lab File: BE089477.D

Acq: 31 Jan 2015 20:41

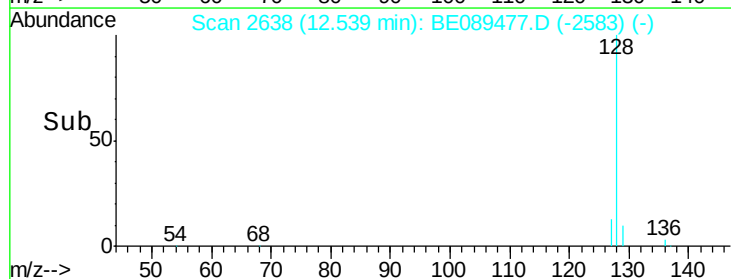
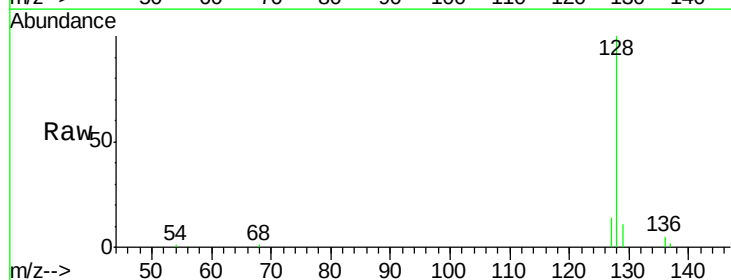
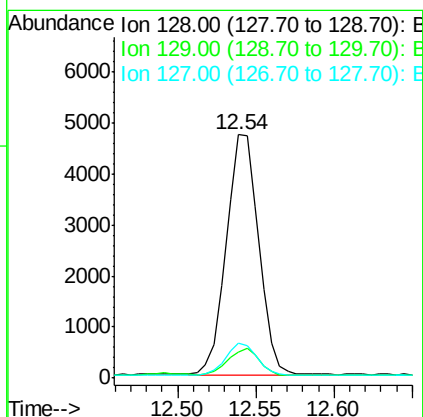
Tgt Ion: 128 Resp: 6734

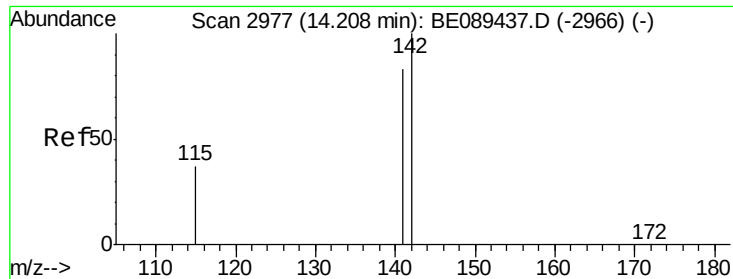
Ion Ratio Lower Upper

128 100

129 10.7 8.8 13.2

127 14.4 10.6 16.0





#5

2-Methylnaphthalene

Concen: 0.11 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.01 min

Lab File: BE089477.D

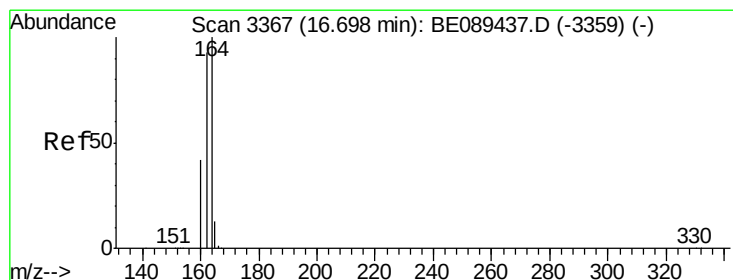
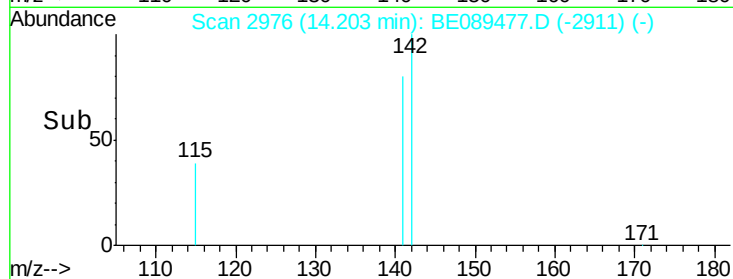
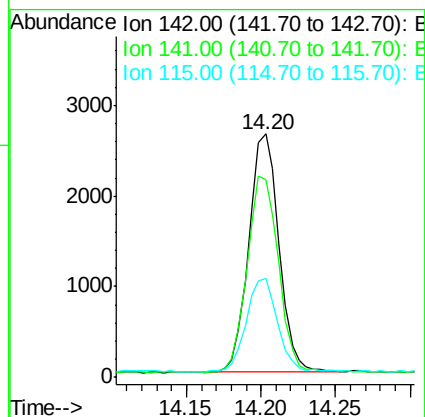
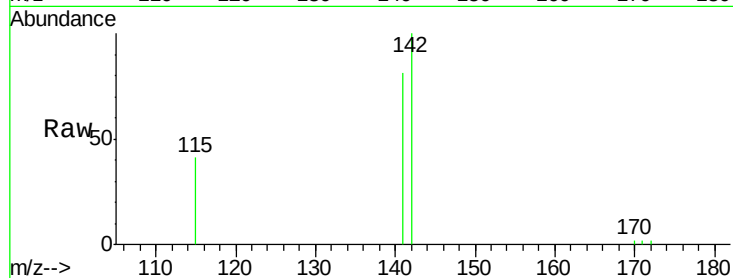
Acq: 31 Jan 2015 20:41

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	3719
Ion	Ratio	Lower	Upper
142	100		
141	81.0	66.1	99.1
115	40.7	29.9	44.9



#6

Acenaphthene-d10

Concen: 5.00 ng

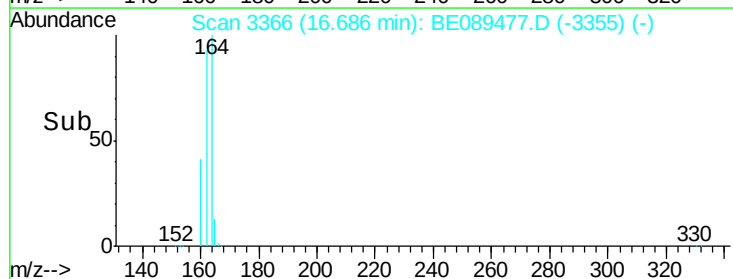
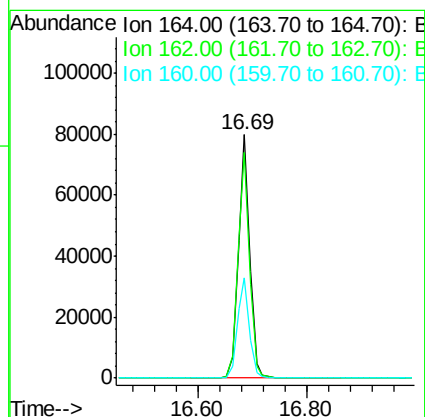
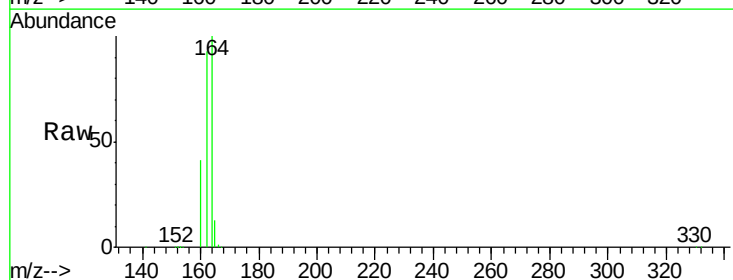
RT: 16.69 min Scan# 3366

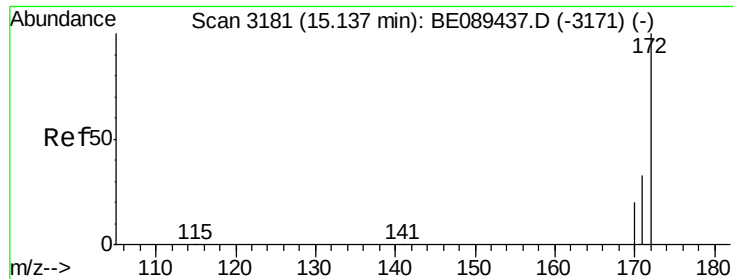
Delta R.T. -0.01 min

Lab File: BE089477.D

Acq: 31 Jan 2015 20:41

Tgt Ion:	164	Resp:	114236
Ion	Ratio	Lower	Upper
164	100		
162	92.8	74.7	112.1
160	41.2	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 7.32 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.01 min

Lab File: BE089477.D

Acq: 31 Jan 2015 20:41

Instrument :

BNA_E

ClientSampleId :

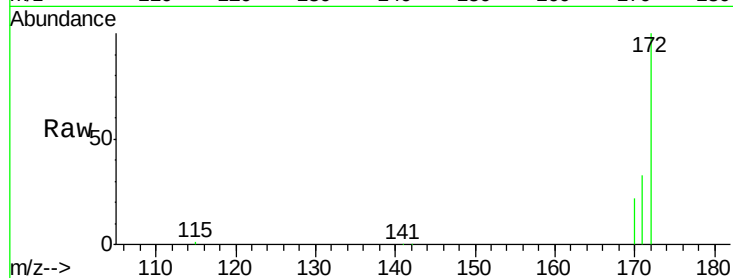
Tgt Ion:172 Resp: 220431

Ion Ratio Lower Upper

172 100

171 33.4 26.2 39.4

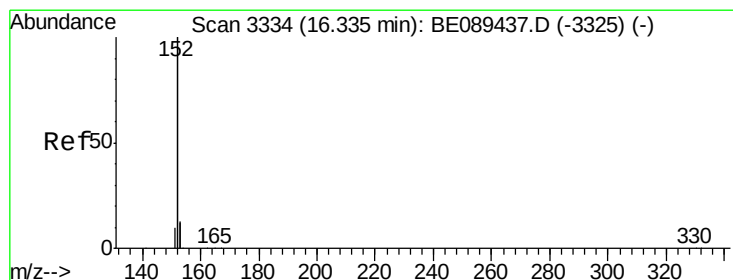
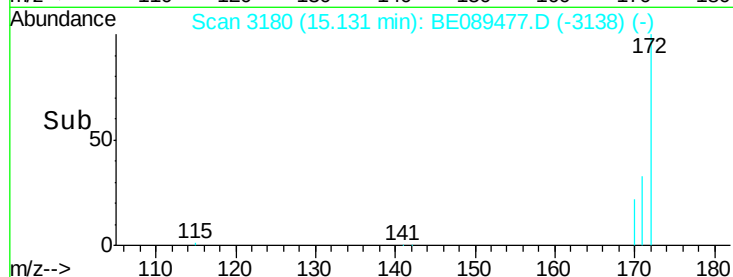
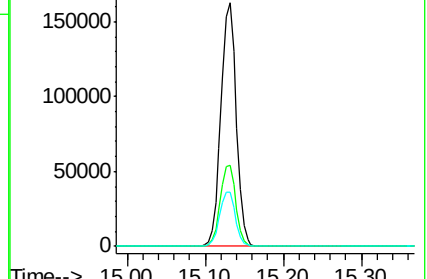
170 22.1 16.5 24.7



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: 0.10 ng

RT: 16.33 min Scan# 3334

Delta R.T. -0.00 min

Lab File: BE089477.D

Acq: 31 Jan 2015 20:41

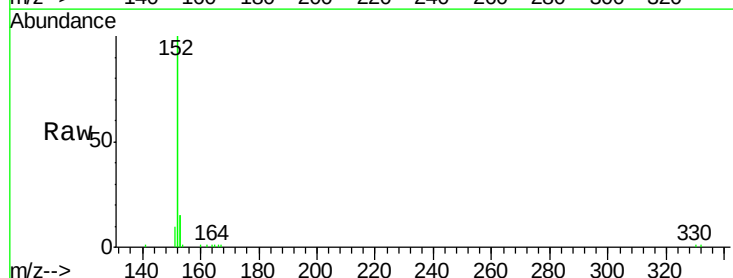
Tgt Ion:152 Resp: 19521

Ion Ratio Lower Upper

152 100

151 5.5 3.9 5.9

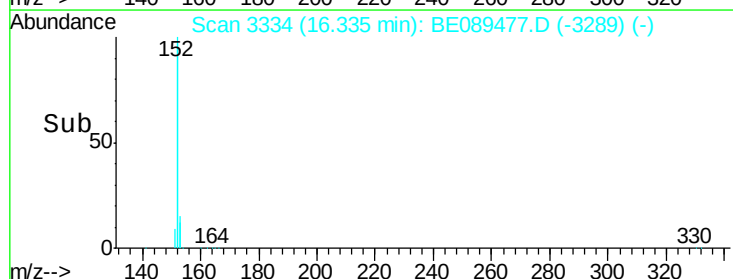
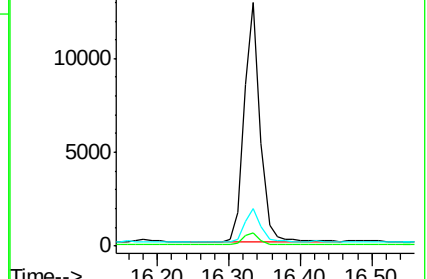
153 13.7 10.3 15.5

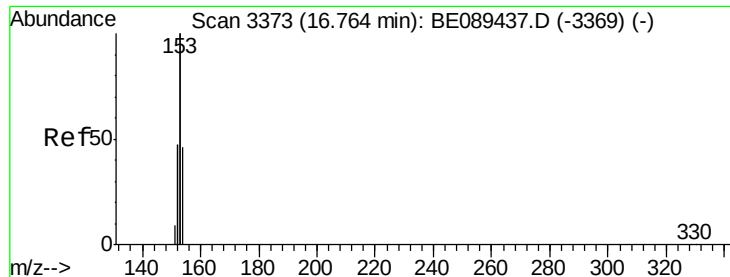


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.11 ng

RT: 16.76 min Scan# 3373

Delta R.T. -0.00 min

Lab File: BE089477.D

Acq: 31 Jan 2015 20:41

Instrument :

BNA_E

ClientSampleId :

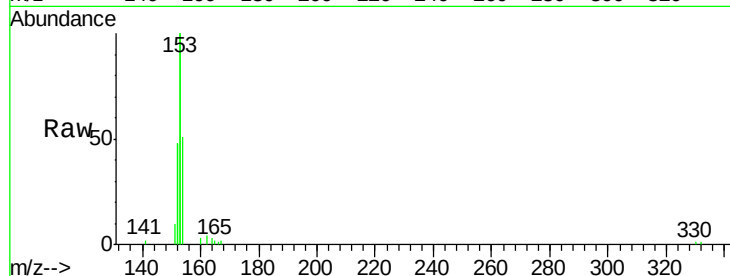
Tgt Ion:154 Resp: 3392

Ion Ratio Lower Upper

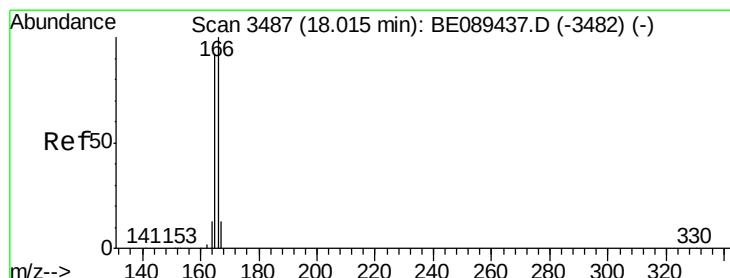
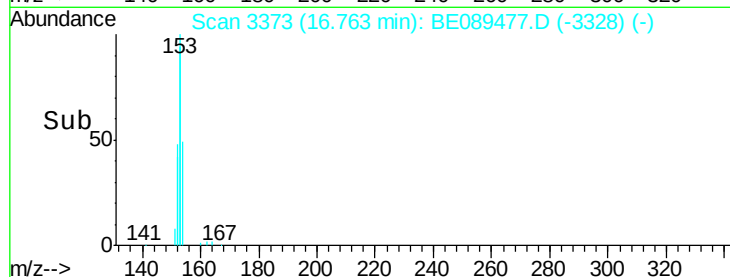
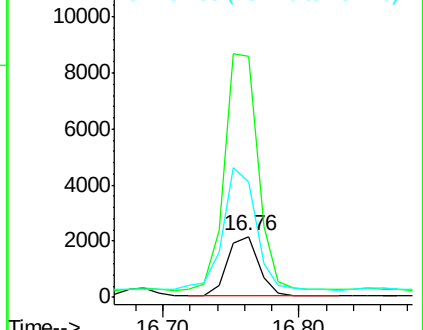
154 100

153 423.0 342.3 513.5

152 226.2 165.5 248.3



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: 0.10 ng

RT: 18.01 min Scan# 3487

Delta R.T. -0.00 min

Lab File: BE089477.D

Acq: 31 Jan 2015 20:41

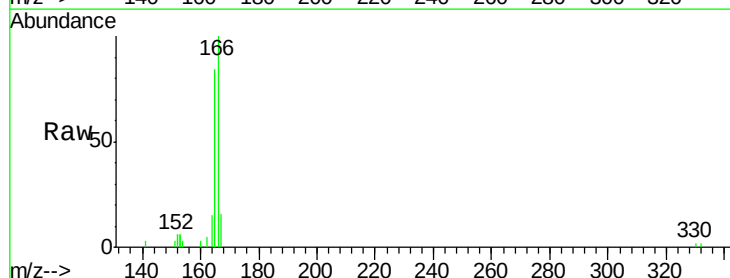
Tgt Ion:166 Resp: 3526

Ion Ratio Lower Upper

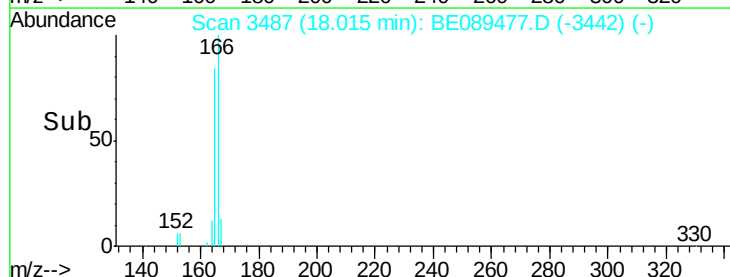
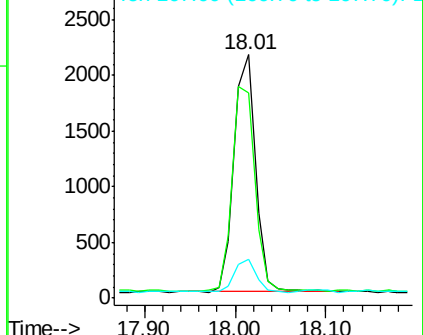
166 100

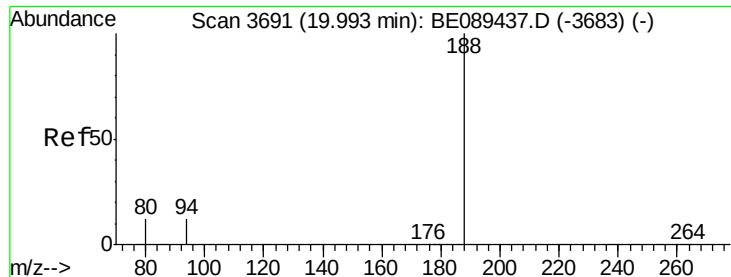
165 91.8 74.4 111.6

167 13.6 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

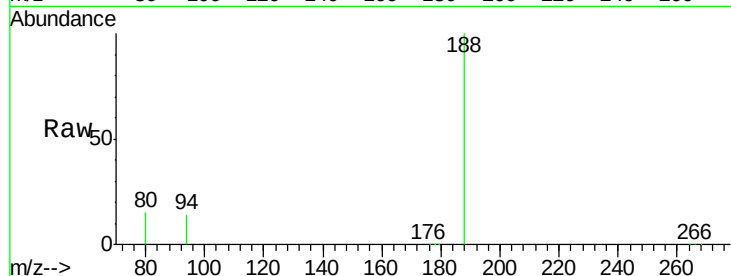




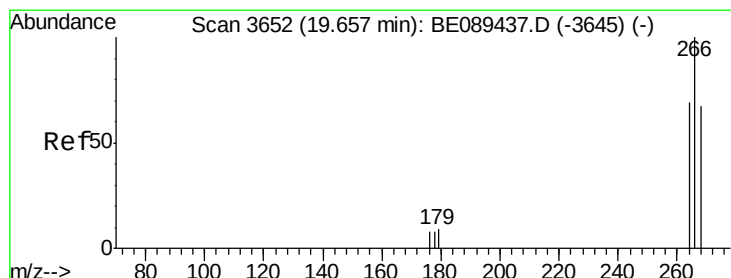
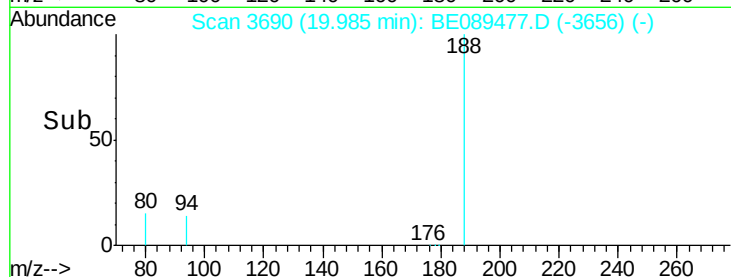
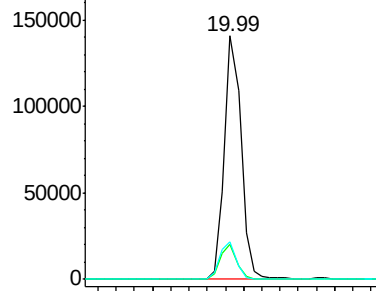
#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3690
Delta R.T. -0.01 min
Lab File: BE089477.D
Acq: 31 Jan 2015 20:41

Instrument :
BNA_E
ClientSampleId :

Tgt Ion:188 Resp: 177391
Ion Ratio Lower Upper
188 100
94 14.5 9.4 14.0#
80 15.2 9.3 13.9#

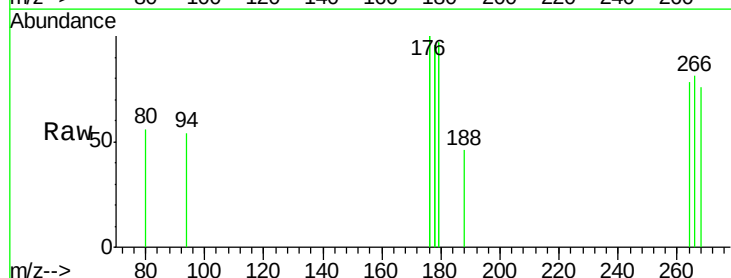


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

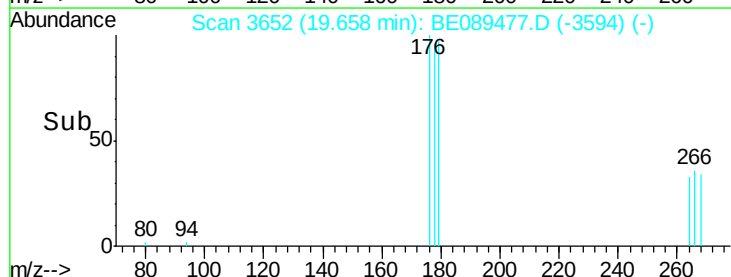
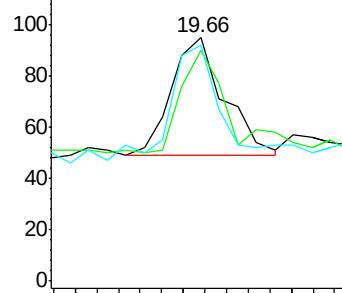


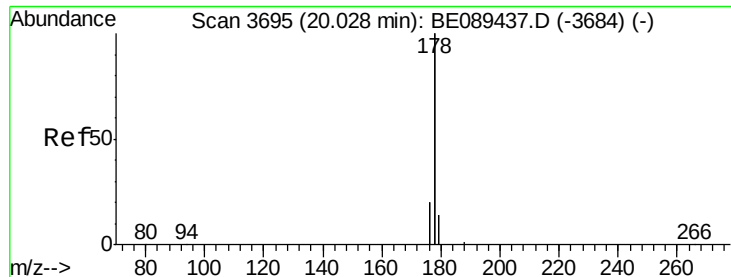
#12
Pentachlorophenol
Concen: Below Cal
RT: 19.66 min Scan# 3652
Delta R.T. 0.00 min
Lab File: BE089477.D
Acq: 31 Jan 2015 20:41

Tgt Ion:266 Resp: 78
Ion Ratio Lower Upper
266 100
268 94.7 54.2 81.4#
264 96.8 56.2 84.2#



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E

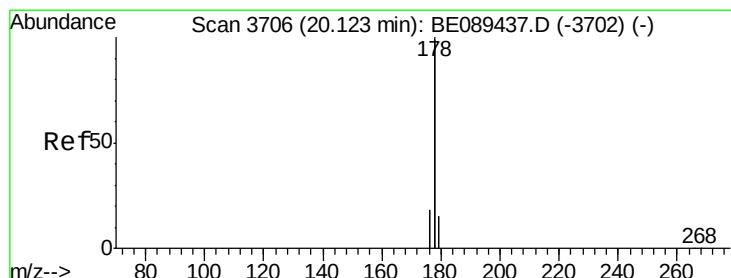
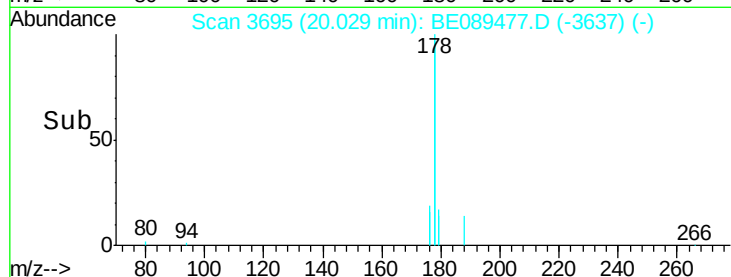
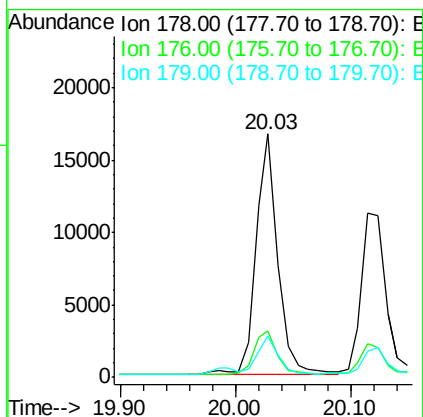
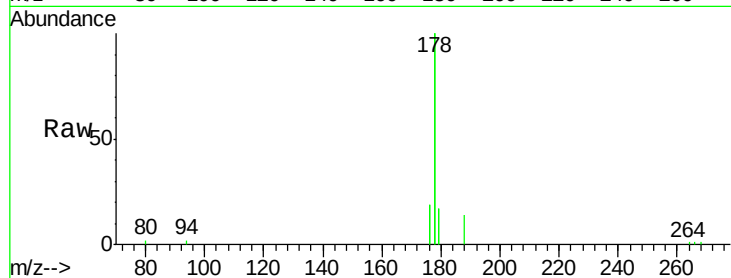




#13
Phenanthrene
Concen: 0.13 ng
RT: 20.03 min Scan# 3695
Delta R.T. 0.00 min
Lab File: BE089477.D
Acq: 31 Jan 2015 20:41

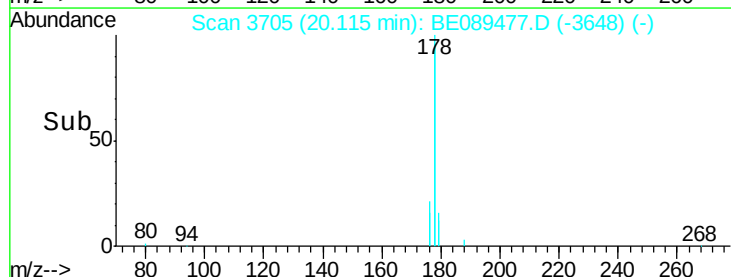
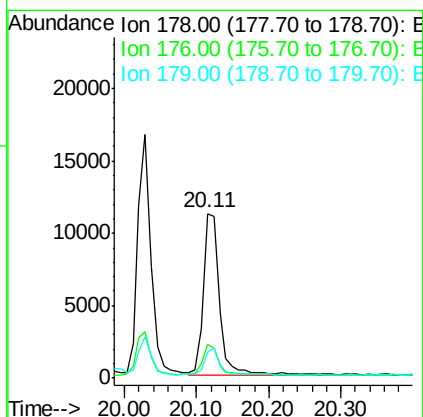
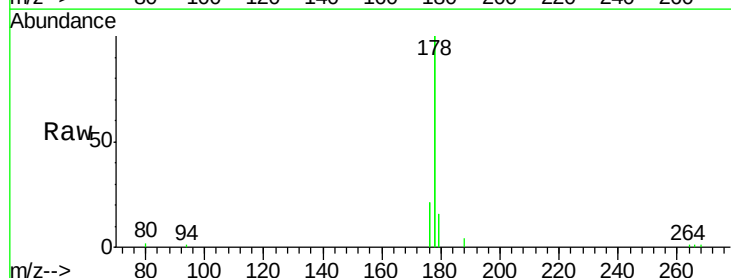
Instrument :
BNA_E
ClientSampleId :

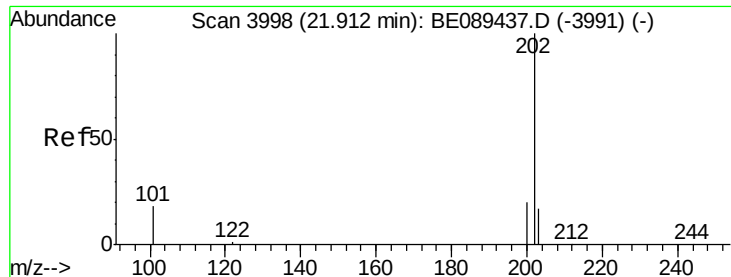
Tgt Ion:178 Resp: 21844
Ion Ratio Lower Upper
178 100
176 18.7 15.1 22.7
179 15.1 12.3 18.5



#14
Anthracene
Concen: 0.11 ng
RT: 20.11 min Scan# 3705
Delta R.T. -0.01 min
Lab File: BE089477.D
Acq: 31 Jan 2015 20:41

Tgt Ion:178 Resp: 17179
Ion Ratio Lower Upper
178 100
176 18.3 14.6 22.0
179 15.6 12.2 18.2

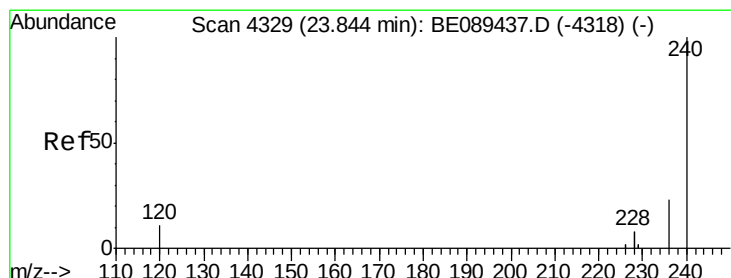
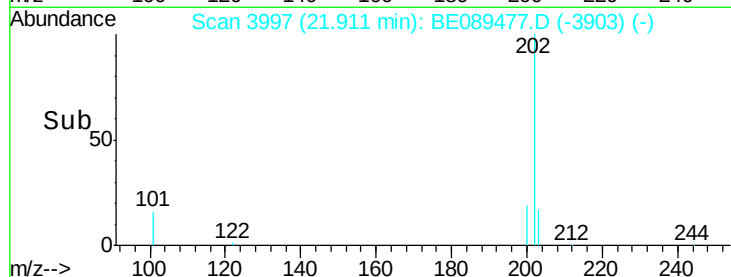
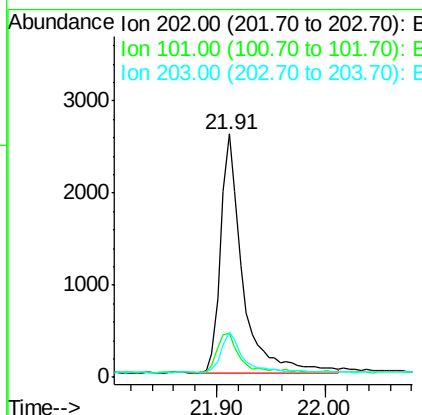
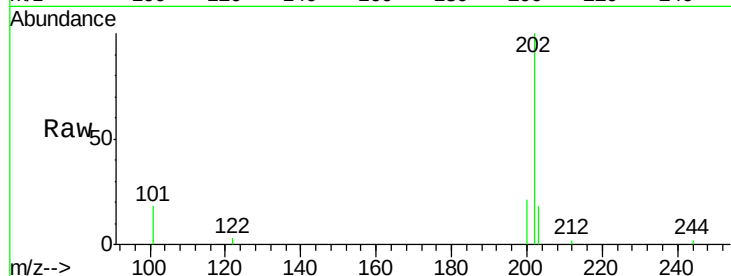




#15
 Fluoranthene
 Concen: 0.10 ng
 RT: 21.91 min Scan# 3997
 Delta R.T. -0.00 min
 Lab File: BE089477.D
 Acq: 31 Jan 2015 20:41

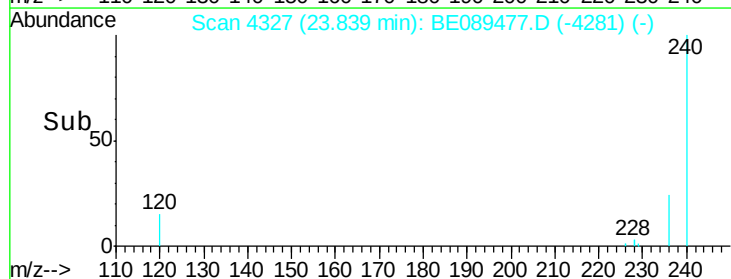
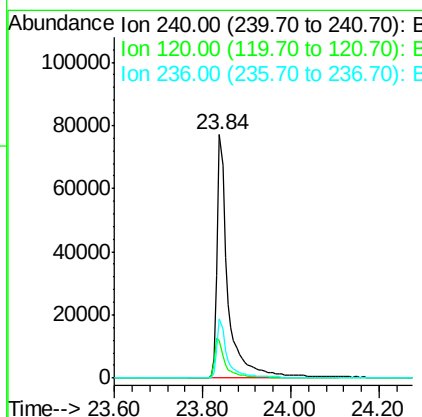
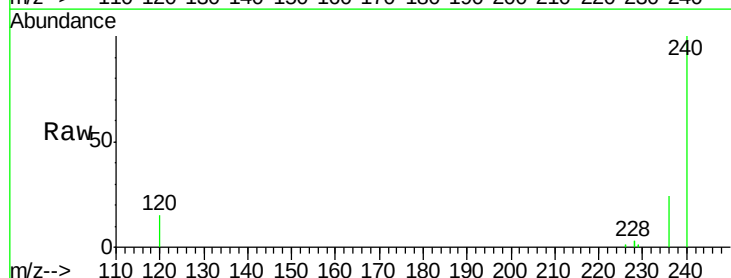
Instrument :
 BNA_E
 ClientSampleId :

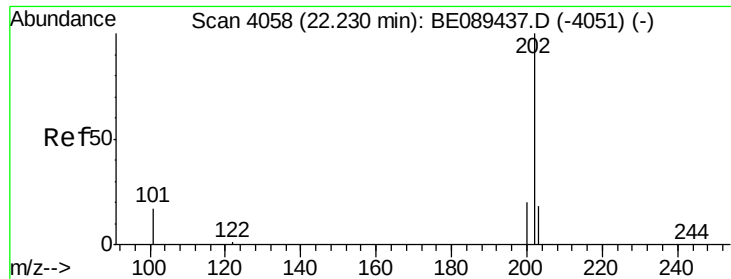
Tgt Ion: 202 Resp: 3649
 Ion Ratio Lower Upper
 202 100
 101 17.5 13.6 20.4
 203 16.0 13.8 20.6



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.84 min Scan# 4327
 Delta R.T. -0.01 min
 Lab File: BE089477.D
 Acq: 31 Jan 2015 20:41

Tgt Ion: 240 Resp: 131971
 Ion Ratio Lower Upper
 240 100
 120 15.3 8.6 13.0#
 236 24.4 18.7 28.1





#17

Pyrene

Concen: 0.11 ng

RT: 22.22 min Scan# 4056

Delta R.T. -0.01 min

Lab File: BE089477.D

Acq: 31 Jan 2015 20:41

Instrument :

BNA_E

ClientSampleId :

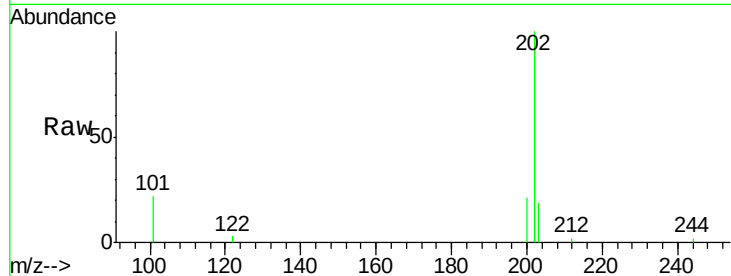
Tgt Ion:202 Resp: 4016

Ion Ratio Lower Upper

202 100

200 18.7 16.2 24.4

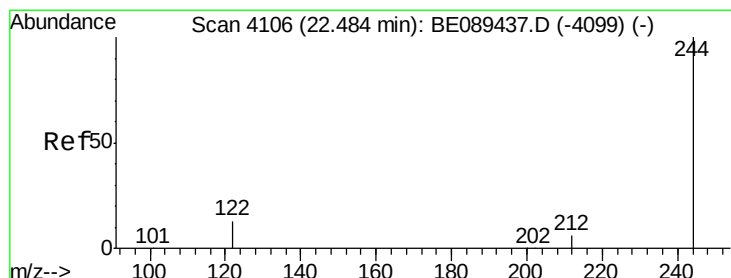
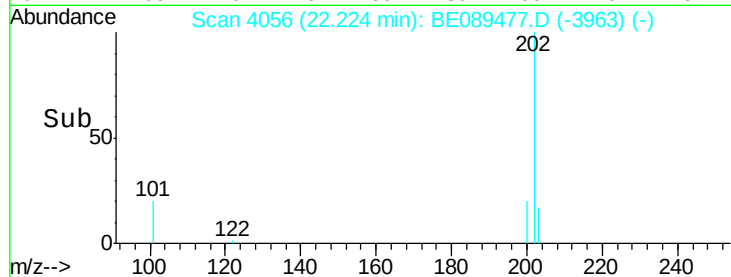
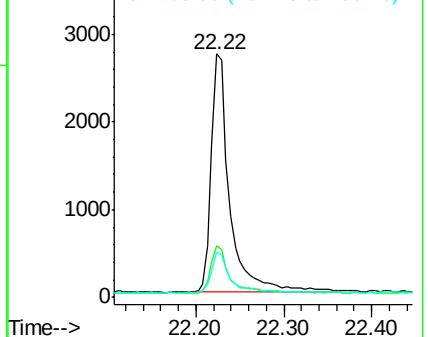
203 16.6 13.8 20.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#18

Terphenyl-d14

Concen: 9.09 ng

RT: 22.48 min Scan# 4105

Delta R.T. -0.00 min

Lab File: BE089477.D

Acq: 31 Jan 2015 20:41

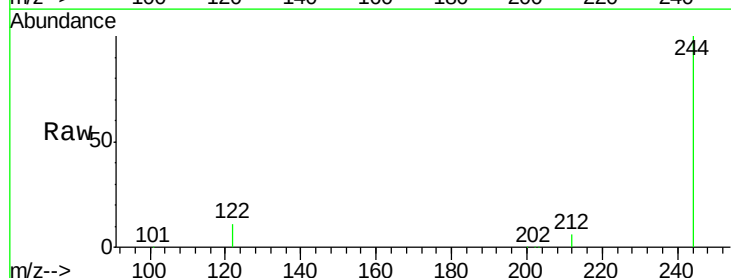
Tgt Ion:244 Resp: 179620

Ion Ratio Lower Upper

244 100

212 6.4 5.0 7.6

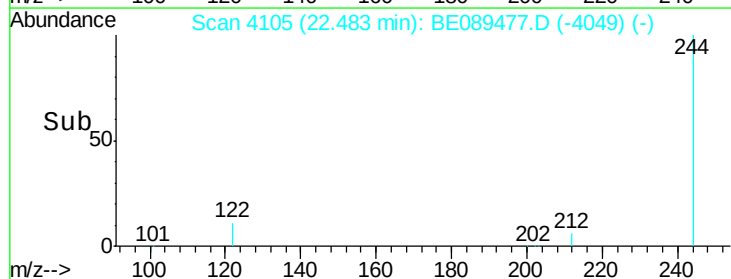
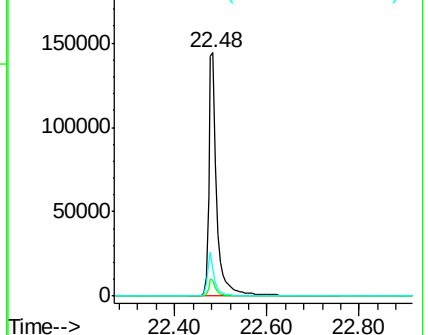
122 11.1 10.2 15.4

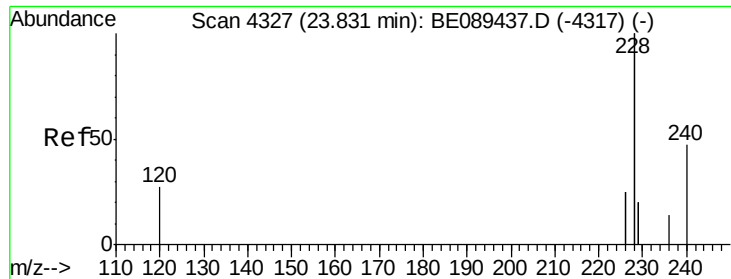


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 0.08 ng

RT: 23.83 min Scan# 4326

Delta R.T. 0.00 min

Lab File: BE089477.D

Acq: 31 Jan 2015 20:41

Instrument :

BNA_E

ClientSampleId :

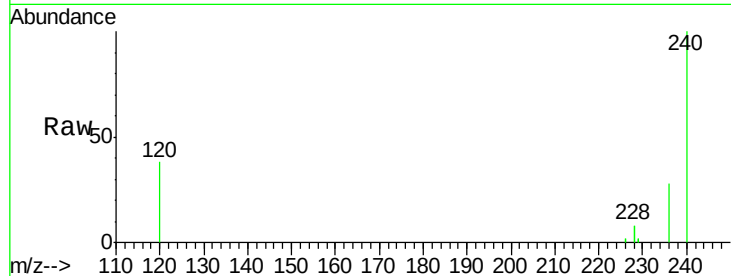
Tgt Ion:228 Resp: 8813

Ion Ratio Lower Upper

228 100

226 25.6 20.0 30.0

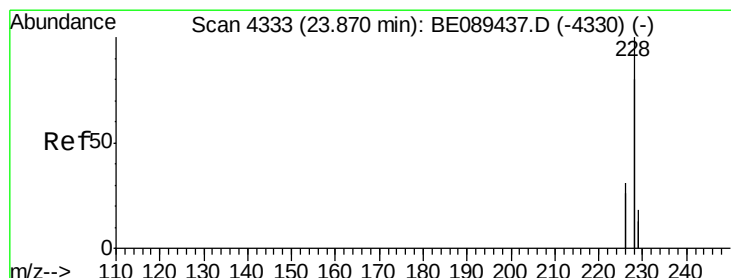
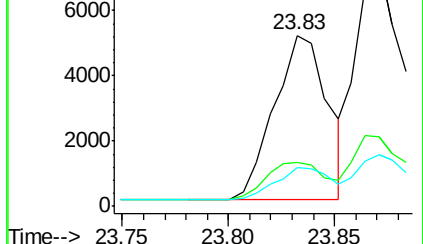
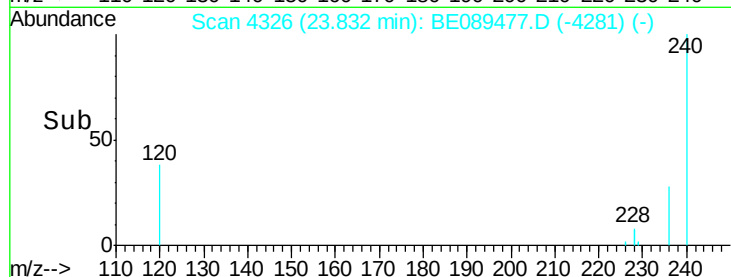
229 22.6 16.0 24.0



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: 0.14 ng

RT: 23.87 min Scan# 4332

Delta R.T. 0.00 min

Lab File: BE089477.D

Acq: 31 Jan 2015 20:41

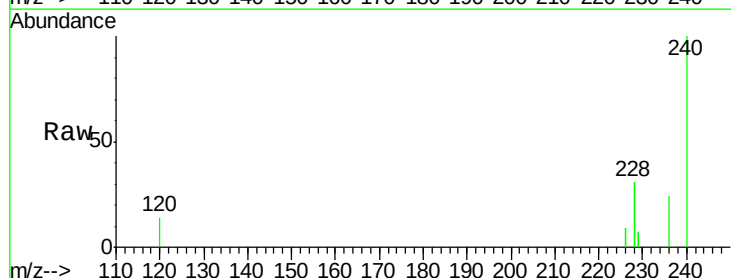
Tgt Ion:228 Resp: 16992

Ion Ratio Lower Upper

228 100

226 28.5 24.5 36.7

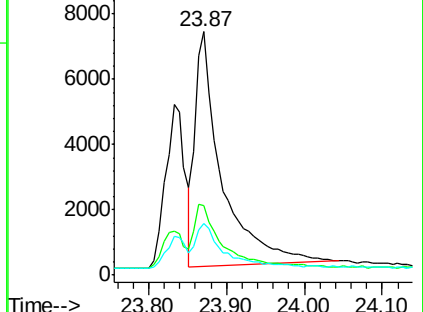
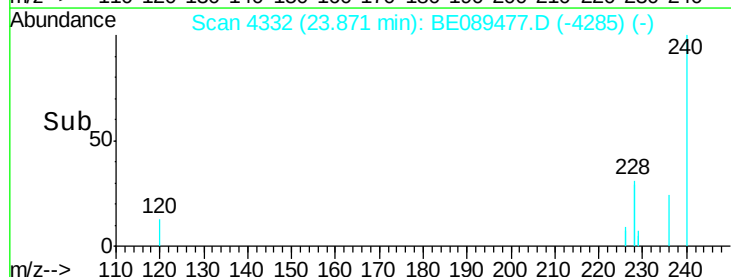
229 21.3 14.1 21.1#

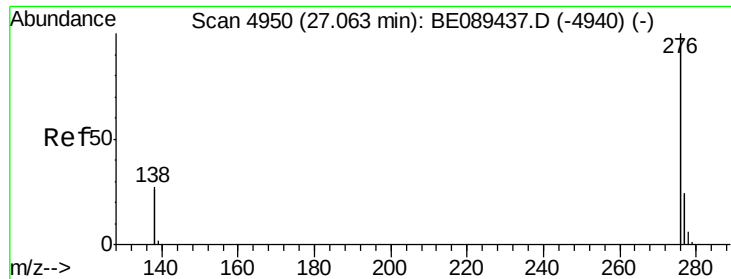


Abundance Ion 228.00 (227.70 to 228.70): E

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: 0.02 ng

RT: 27.05 min Scan# 4947

Delta R.T. -0.01 min

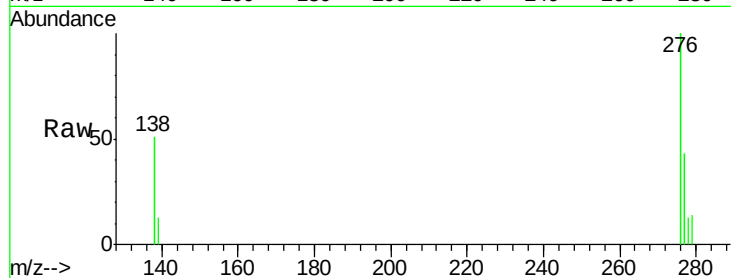
Lab File: BE089477.D

Acq: 31 Jan 2015 20:41

Instrument :

BNA_E

ClientSampleId :



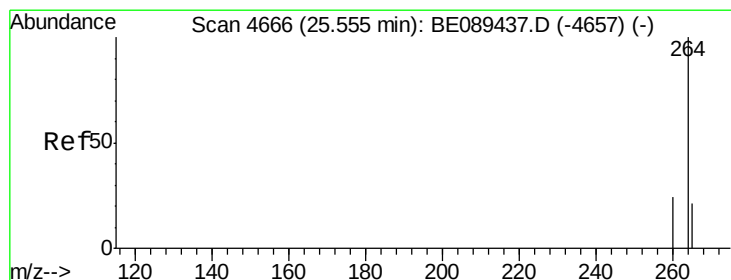
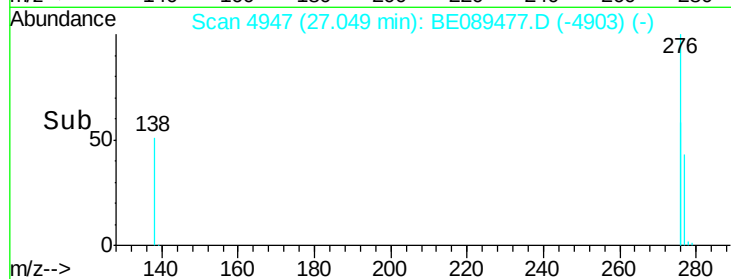
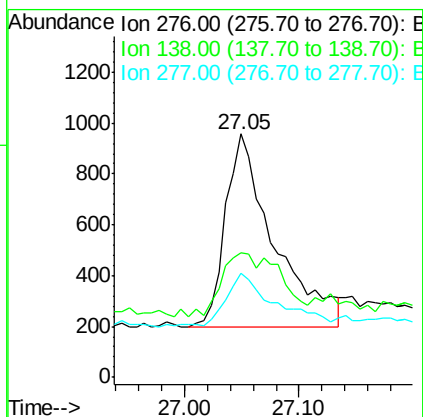
Tgt Ion:276 Resp: 2224

Ion Ratio Lower Upper

276 100

138 23.5 25.4 38.0#

277 27.4 19.8 29.6



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.55 min Scan# 4664

Delta R.T. -0.00 min

Lab File: BE089477.D

Acq: 31 Jan 2015 20:41

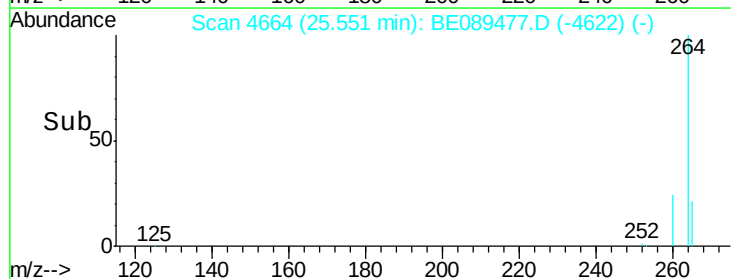
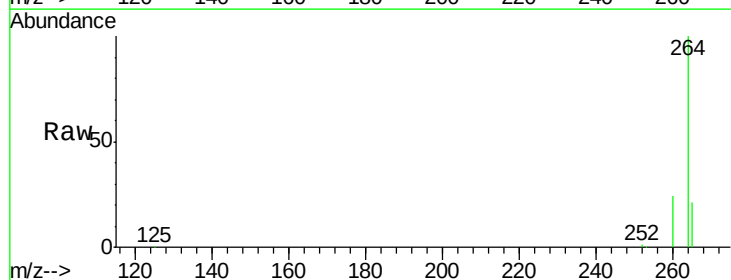
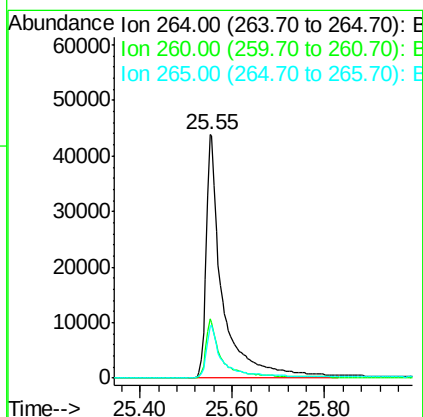
Tgt Ion:264 Resp: 107556

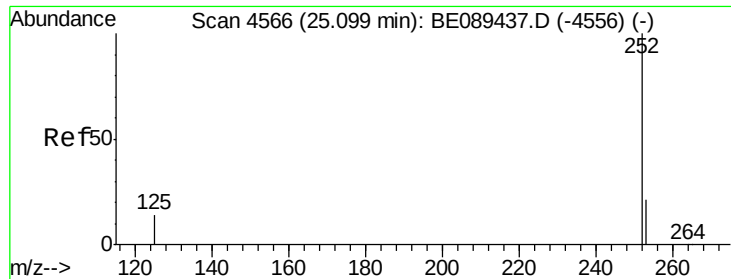
Ion Ratio Lower Upper

264 100

260 24.3 19.4 29.0

265 21.3 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 0.21 ng

RT: 25.09 min Scan# 4563

Delta R.T. -0.01 min

Lab File: BE089477.D

Acq: 31 Jan 2015 20:41

Instrument :

BNA_E

ClientSampleId :

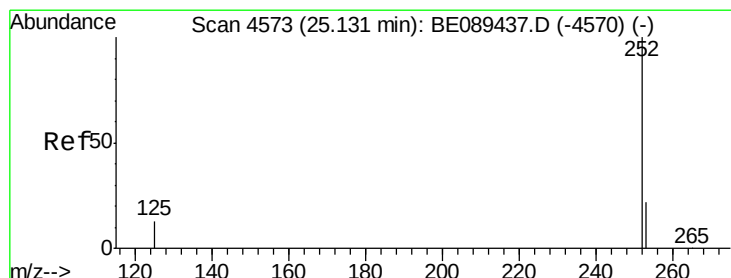
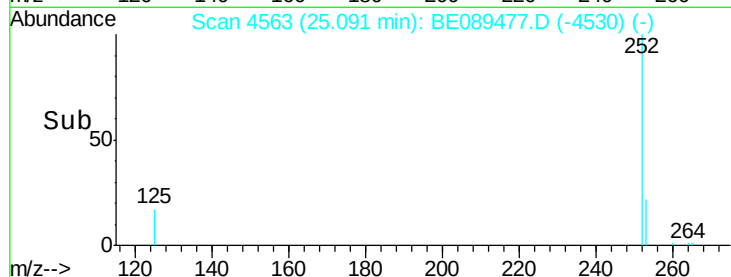
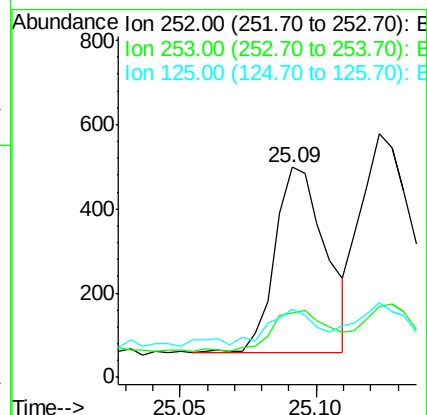
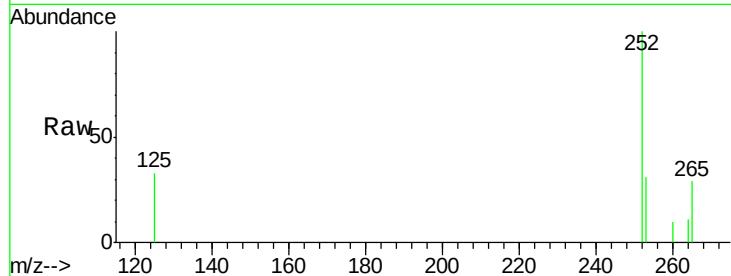
Tgt Ion:252 Resp: 568

Ion Ratio Lower Upper

252 100

253 30.9 17.0 25.6#

125 32.5 11.4 17.0#



#24

Benzo(k)fluoranthene

Concen: 0.02 ng

RT: 25.12 min Scan# 4570

Delta R.T. -0.01 min

Lab File: BE089477.D

Acq: 31 Jan 2015 20:41

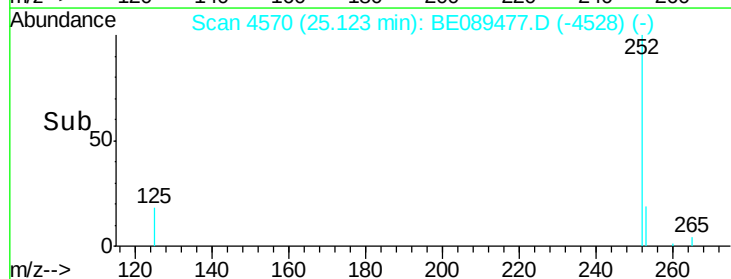
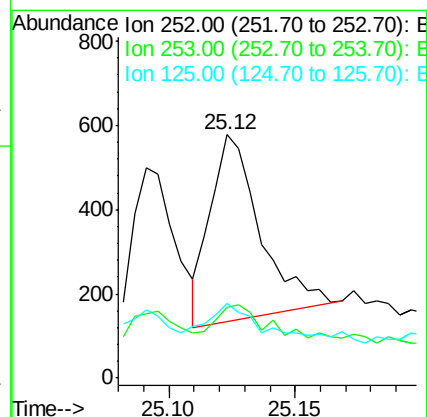
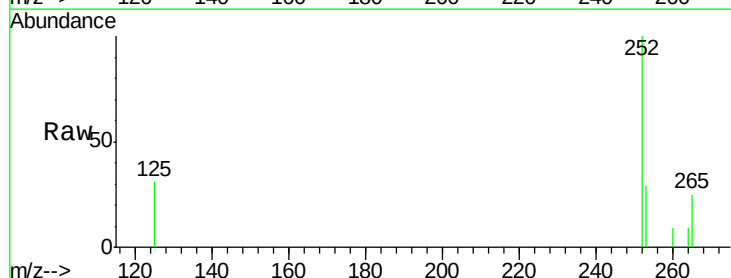
Tgt Ion:252 Resp: 610

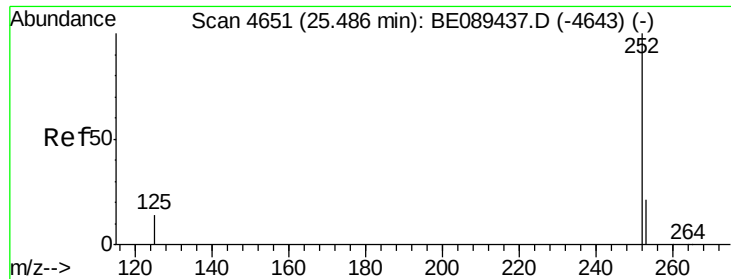
Ion Ratio Lower Upper

252 100

253 29.2 17.4 26.2#

125 30.6 10.9 16.3#





#25

Benzo(a)pyrene

Concen: 0.15 ng

RT: 25.47 min Scan# 4647

Delta R.T. -0.01 min

Lab File: BE089477.D

Acq: 31 Jan 2015 20:41

Instrument :

BNA_E

ClientSampleId :

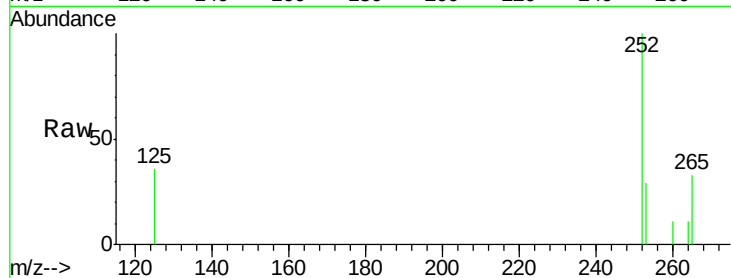
Tgt Ion: 252 Resp: 666

Ion Ratio Lower Upper

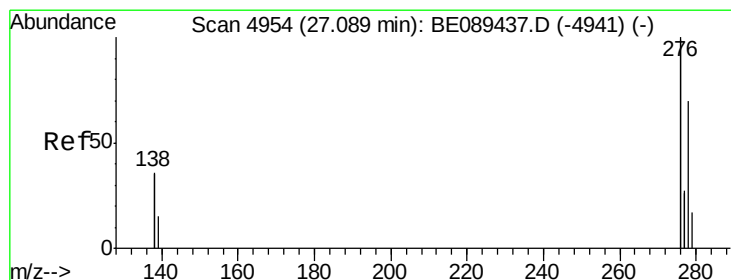
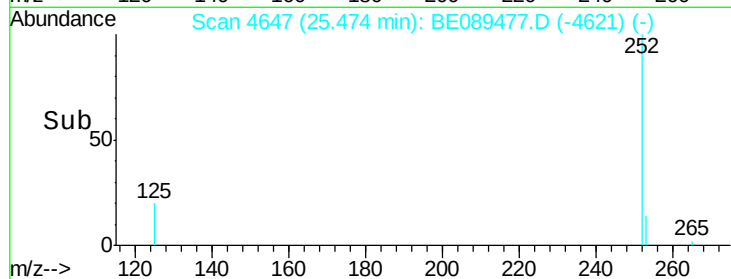
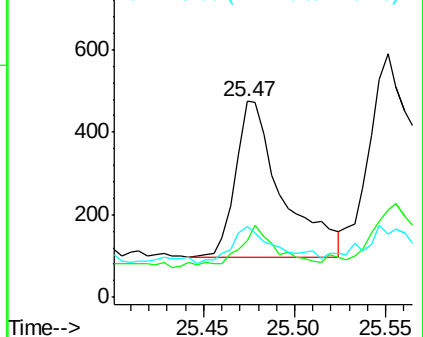
252 100

253 29.1 17.3 25.9#

125 35.8 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: 0.15 ng

RT: 27.08 min Scan# 4952

Delta R.T. -0.01 min

Lab File: BE089477.D

Acq: 31 Jan 2015 20:41

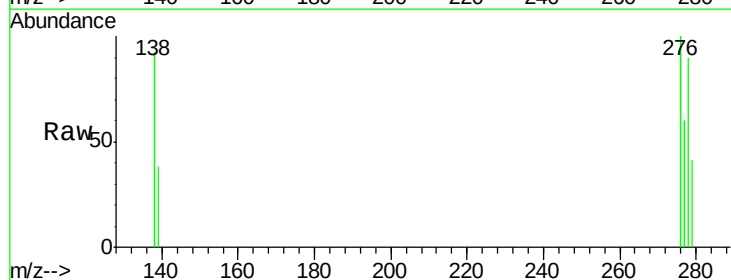
Tgt Ion: 278 Resp: 393

Ion Ratio Lower Upper

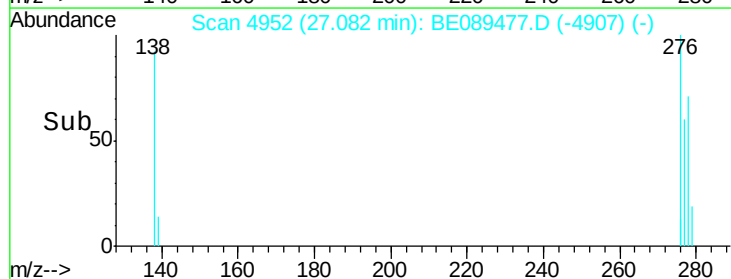
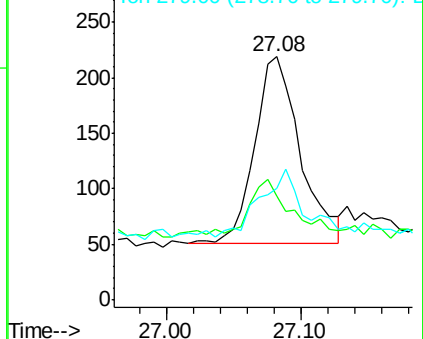
278 100

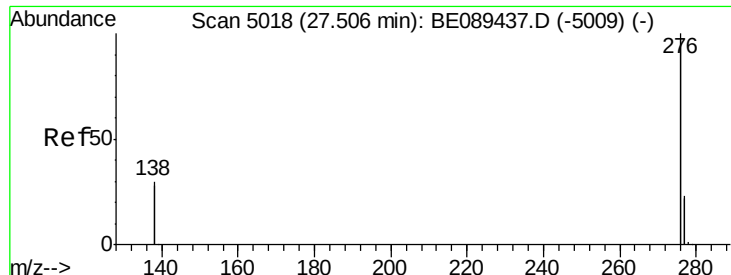
139 42.5 17.0 25.4#

279 45.7 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: 0.04 ng

RT: 27.50 min Scan# 5016

Delta R.T. -0.01 min

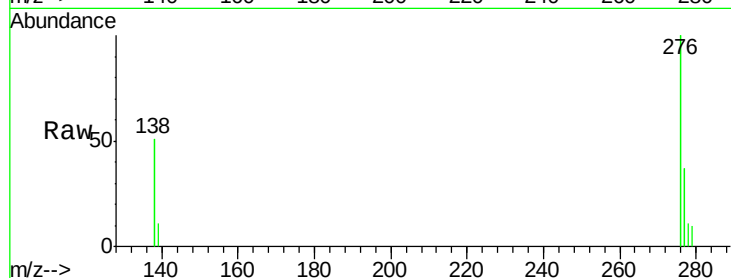
Lab File: BE089477.D

Acq: 31 Jan 2015 20:41

Instrument :

BNA_E

ClientSampleId :



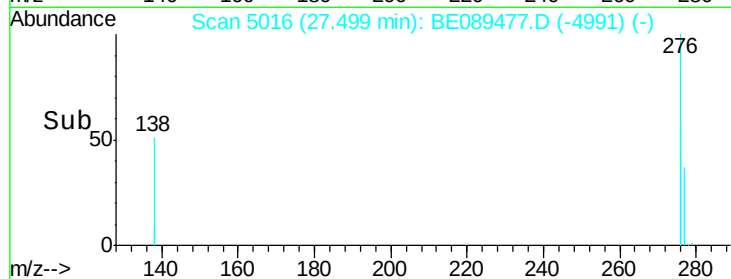
Tgt Ion: 276 Resp: 3063

Ion Ratio Lower Upper

276 100

277 36.7 18.4 27.6#

138 51.2 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

