

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021015\
 Data File : BE089571.D
 Acq On : 11 Feb 2015 7:28
 Operator : TP/IZ
 Sample : MDL-07-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 11 08:11:49 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE021015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 11 01:27:13 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.41	152	62763	5.00	ng	0.00
2) Naphthalene-d8	12.32	136	236952	5.00	ng	0.00
6) Acenaphthene-d10	16.50	164	112721	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	200069	5.00	ng	0.00
16) Chrysene-d12	23.71	240	236524	5.00	ng	0.00
22) Perylene-d12	25.41	264	233758	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5	10.68	82	152290	10.03	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	227534	7.45	ng	0.00
18) Terphenyl-d14	22.36	244	289274	9.82	ng	0.00

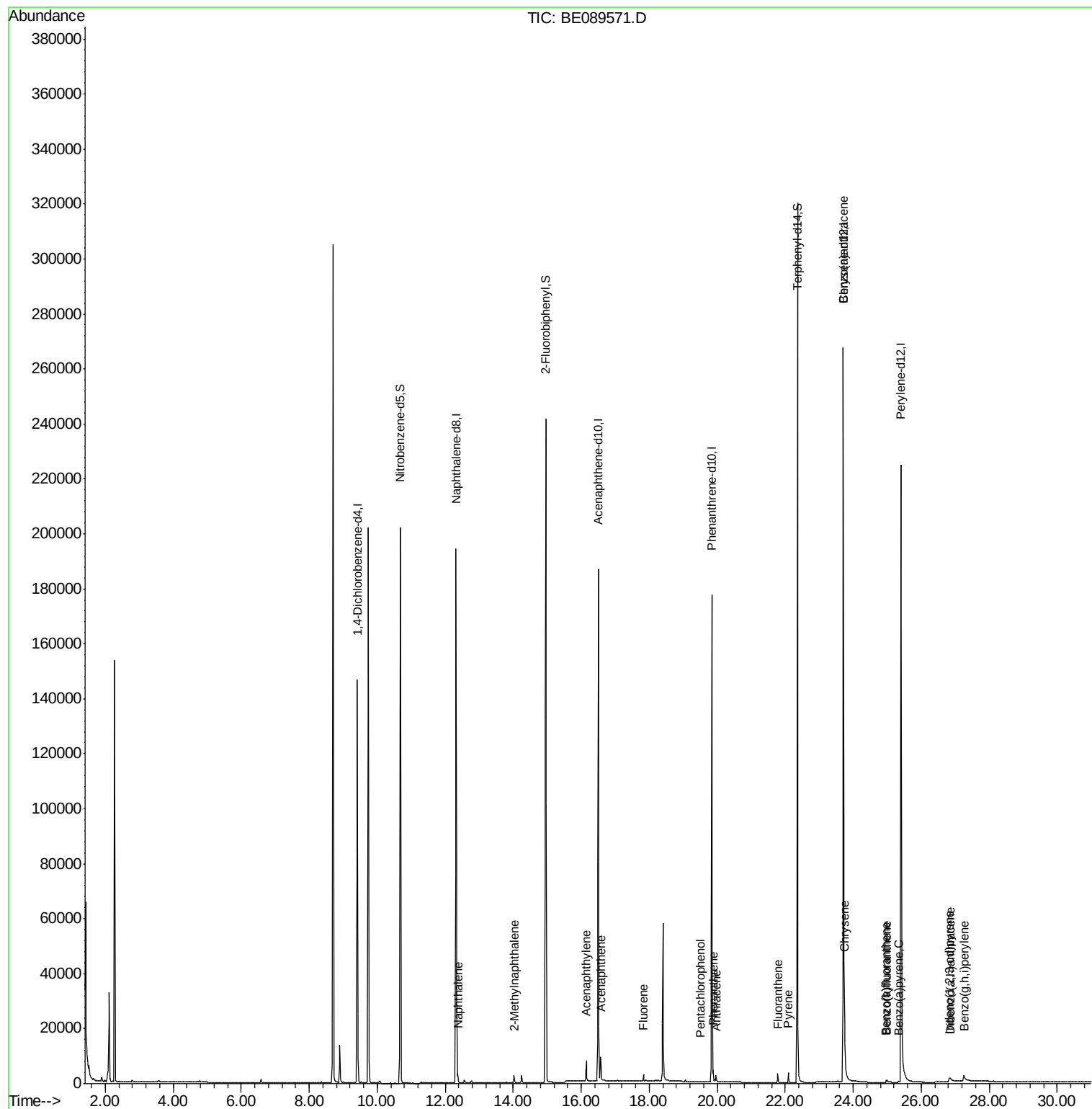
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	12.37	128	3766	0.07	ng	# 94
5) 2-Methylnaphthalene	14.03	142	1874	0.06	ng	96
8) Acenaphthylene	16.15	152	9685	0.05	ng	96
9) Acenaphthene	16.58	154	1767	0.06	ng	95
10) Fluorene	17.83	166	1859	0.06	ng	98
12) Pentachlorophenol	19.52	266	49	0.34	ng	90
13) Phenanthrene	19.88	178	3397	0.07	ng	98
14) Anthracene	19.97	178	2560	0.06	ng	98
15) Fluoranthene	21.78	202	2676	0.06	ng	99
17) Pyrene	22.09	202	2957	0.06	ng	100
19) Benzo(a)anthracene	23.70	228	12414	0.06	ng	95
20) Chrysene	23.74	228	15737	0.07	ng	94
21) Indeno(1,2,3-cd)pyrene	26.83	276	3564	0.05	ng	94
23) Benzo(b)fluoranthene	24.97	252	775	0.25	ng	# 84
24) Benzo(k)fluoranthene	25.00	252	2109	0.04	ng	# 87
25) Benzo(a)pyrene	25.33	252	1007	0.21	ng	# 80
26) Dibenzo(a,h)anthracene	26.86	278	617	0.14	ng	# 62
27) Benzo(g,h,i)perylene	27.26	276	5572	0.03	ng	# 79

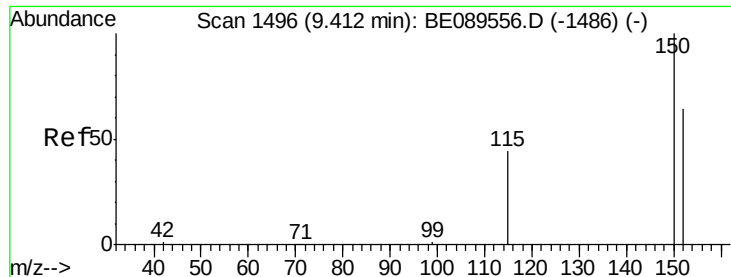
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.41 min Scan# 1496

Delta R.T. -0.00 min

Lab File: BE089571.D

Acq: 11 Feb 2015 7:28

Instrument :

BNA_E

ClientSampleId :

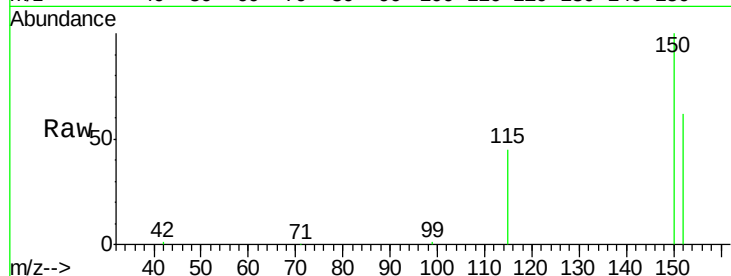
Tgt Ion:152 Resp: 62763

Ion Ratio Lower Upper

152 100

150 160.5 125.6 188.4

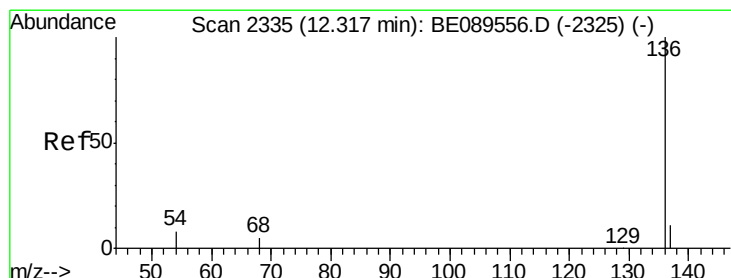
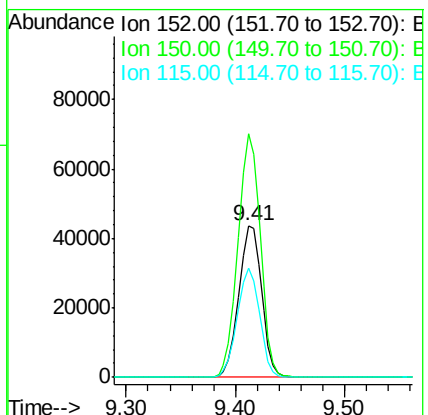
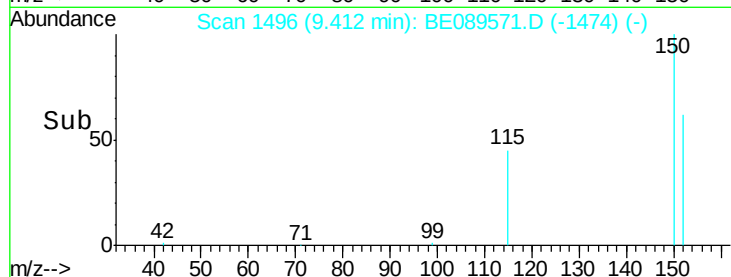
115 72.4 55.8 83.6



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: 12.32 min Scan# 2336

Delta R.T. 0.01 min

Lab File: BE089571.D

Acq: 11 Feb 2015 7:28

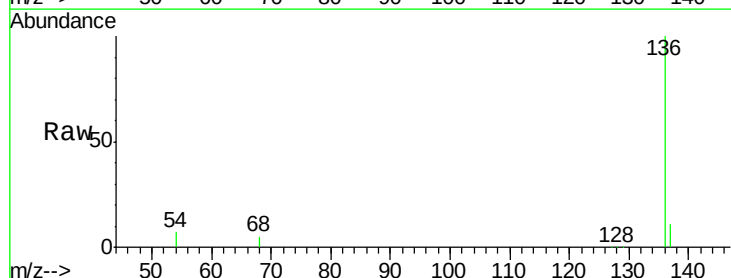
Tgt Ion:136 Resp: 236952

Ion Ratio Lower Upper

136 100

137 10.8 8.6 13.0

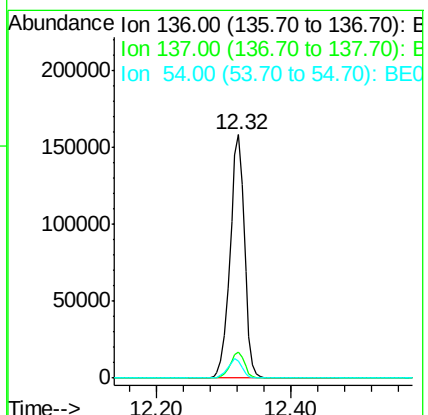
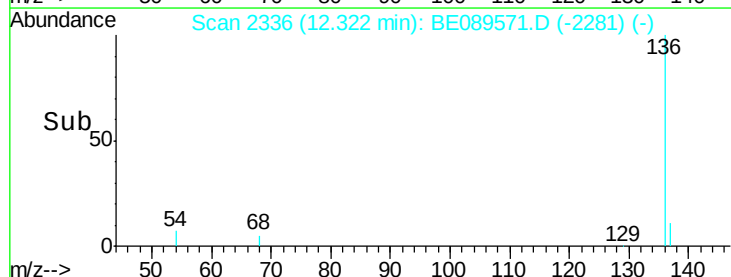
54 7.1 6.6 9.8

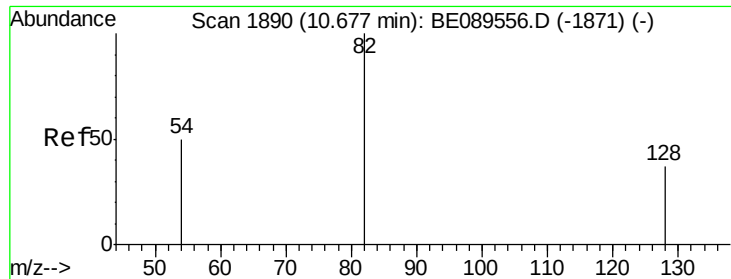


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 10.03 ng

RT: 10.68 min Scan# 1891

Delta R.T. 0.00 min

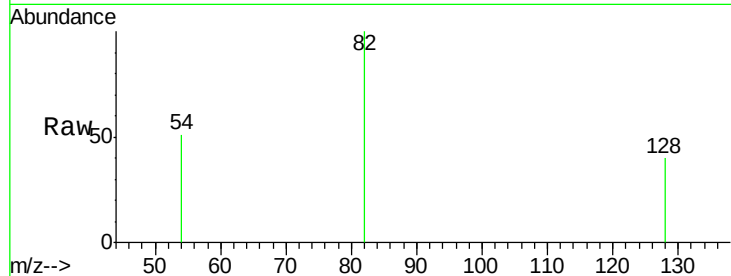
Lab File: BE089571.D

Acq: 11 Feb 2015 7:28

Instrument :

BNA_E

ClientSampleId :



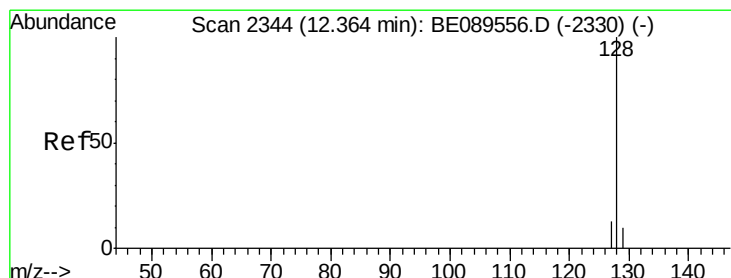
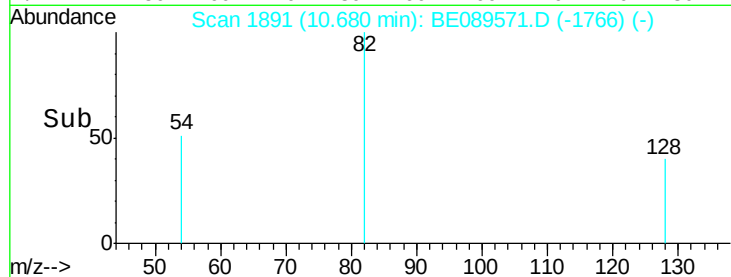
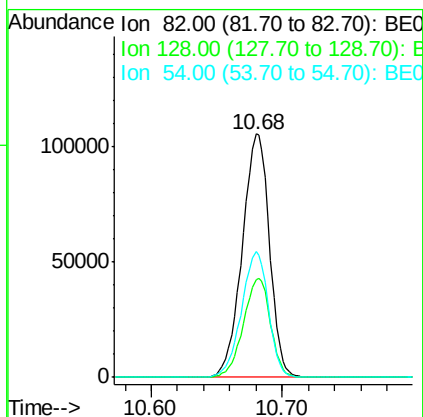
Tgt Ion: 82 Resp: 152290

Ion Ratio Lower Upper

82 100

128 40.1 30.4 45.6

54 51.4 40.7 61.1



#4

Naphthalene

Concen: 0.07 ng

RT: 12.37 min Scan# 2345

Delta R.T. 0.01 min

Lab File: BE089571.D

Acq: 11 Feb 2015 7:28

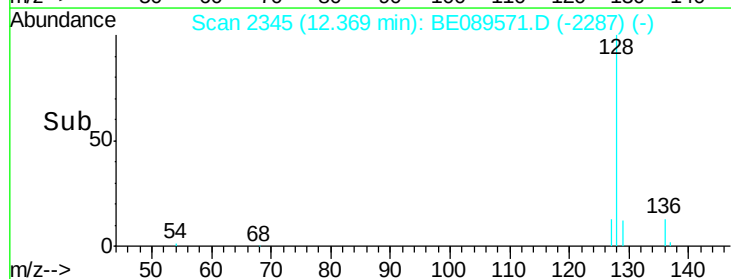
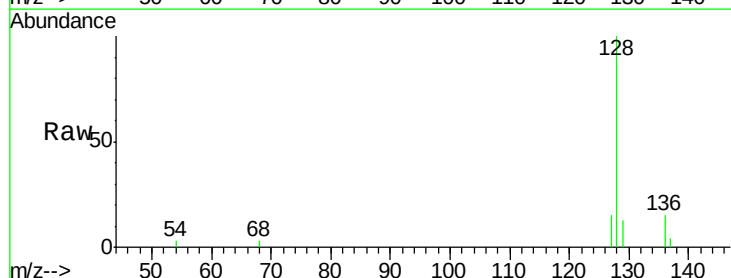
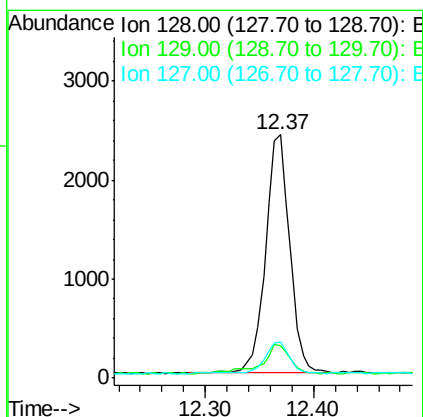
Tgt Ion: 128 Resp: 3766

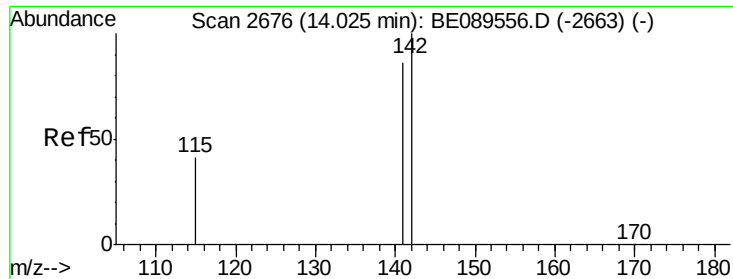
Ion Ratio Lower Upper

128 100

129 13.5 8.5 12.7#

127 15.1 10.6 15.8





#5

2-Methylnaphthalene

Concen: 0.06 ng

RT: 14.03 min Scan# 2676

Delta R.T. 0.00 min

Lab File: BE089571.D

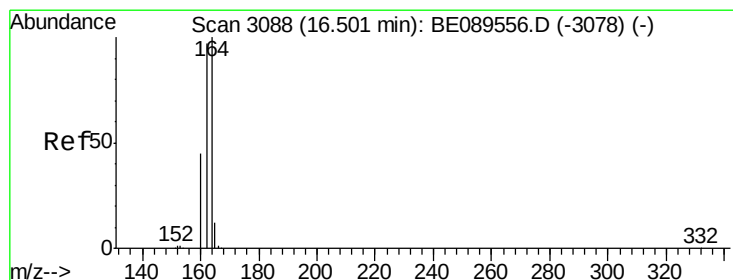
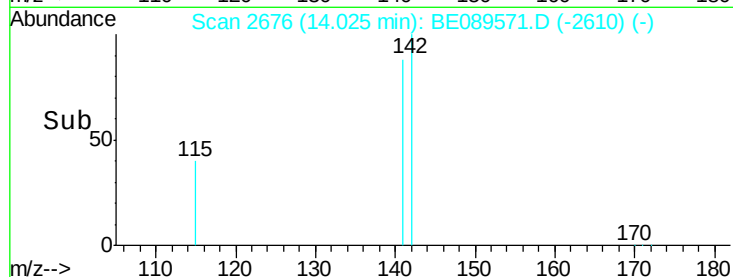
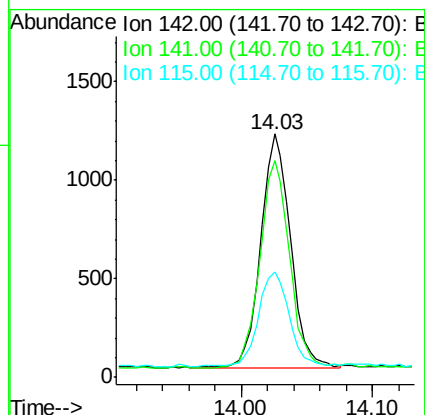
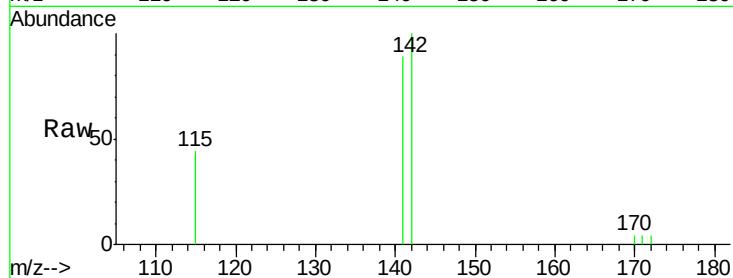
Acq: 11 Feb 2015 7:28

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	1874
Ion	Ratio	Lower	Upper
142	100		
141	89.0	68.6	102.8
115	43.5	33.0	49.6



#6

Acenaphthene-d10

Concen: 5.00 ng

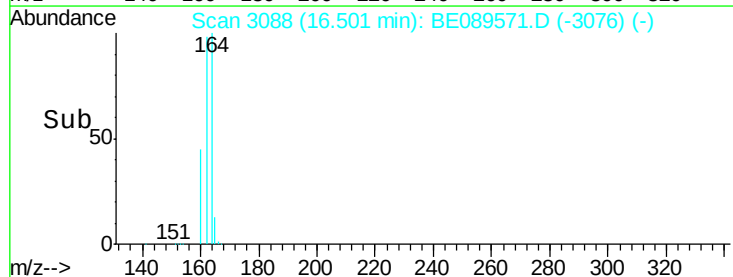
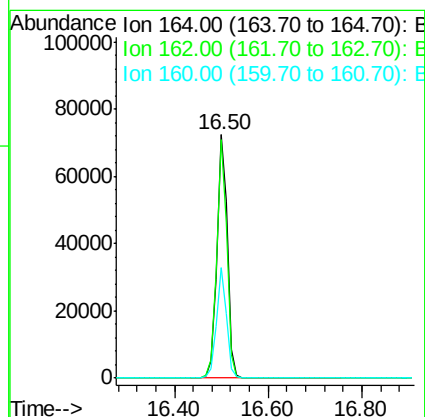
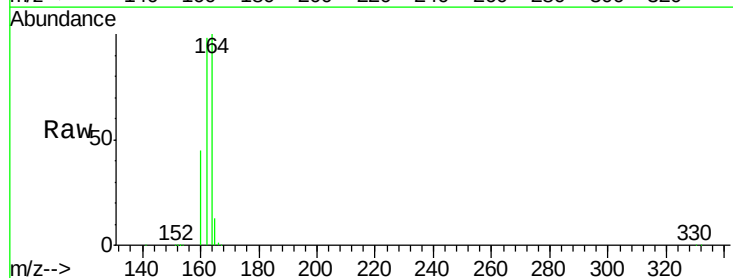
RT: 16.50 min Scan# 3088

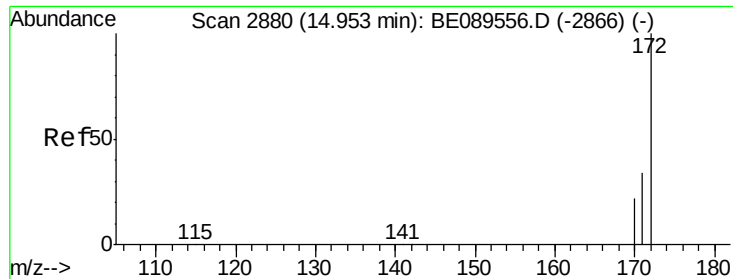
Delta R.T. -0.00 min

Lab File: BE089571.D

Acq: 11 Feb 2015 7:28

Tgt Ion:	164	Resp:	112721
Ion	Ratio	Lower	Upper
164	100		
162	97.8	77.8	116.6
160	45.2	36.2	54.2





#7

2-Fluorobiphenyl

Concen: 7.45 ng

RT: 14.96 min Scan# 2881

Delta R.T. 0.00 min

Lab File: BE089571.D

Acq: 11 Feb 2015 7:28

Instrument :

BNA_E

ClientSampleId :

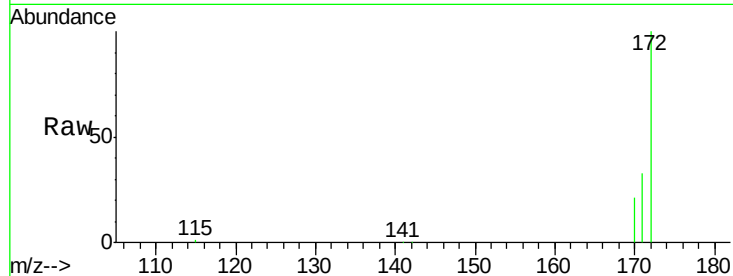
Tgt Ion:172 Resp: 227534

Ion Ratio Lower Upper

172 100

171 33.0 27.4 41.0

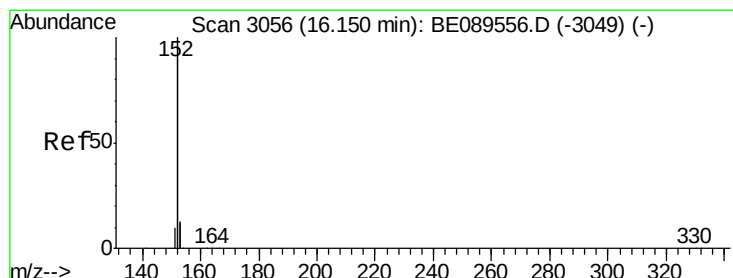
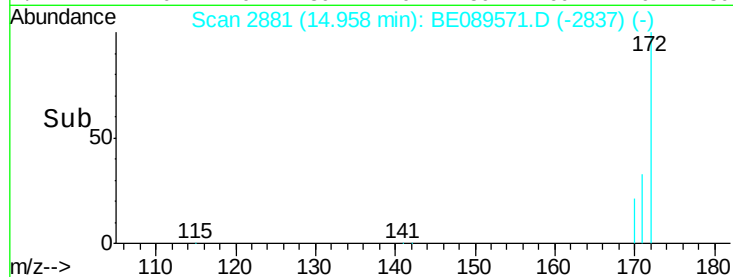
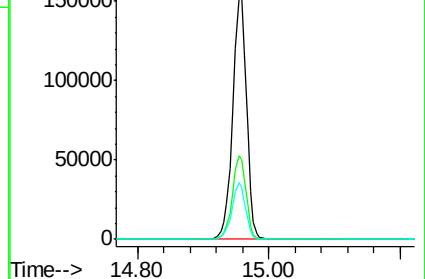
170 21.4 18.3 27.5



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: 0.05 ng

RT: 16.15 min Scan# 3056

Delta R.T. -0.00 min

Lab File: BE089571.D

Acq: 11 Feb 2015 7:28

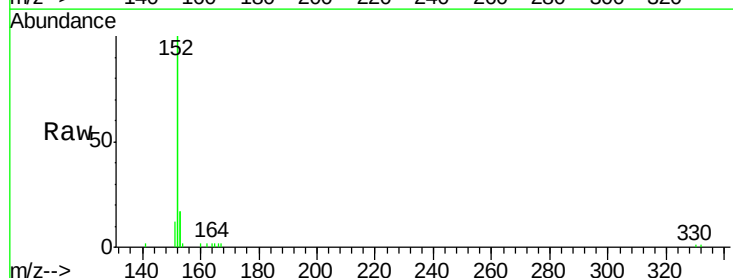
Tgt Ion:152 Resp: 9685

Ion Ratio Lower Upper

152 100

151 5.2 3.9 5.9

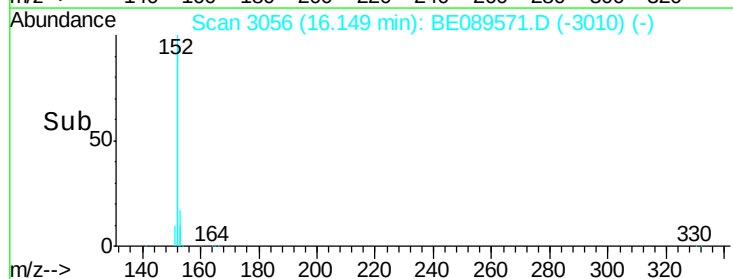
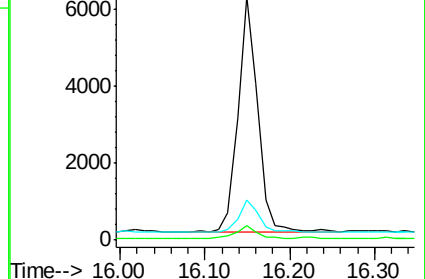
153 14.9 10.4 15.6

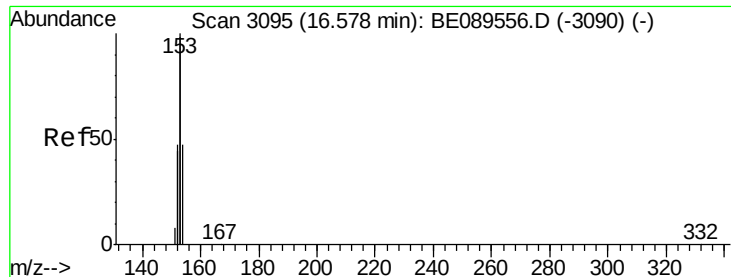


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.06 ng

RT: 16.58 min Scan# 3095

Delta R.T. -0.00 min

Lab File: BE089571.D

Acq: 11 Feb 2015 7:28

Instrument :

BNA_E

ClientSampleId :

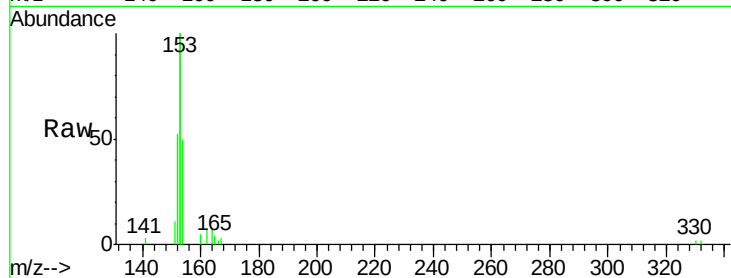
Tgt Ion:154 Resp: 1767

Ion Ratio Lower Upper

154 100

153 426.1 349.0 523.4

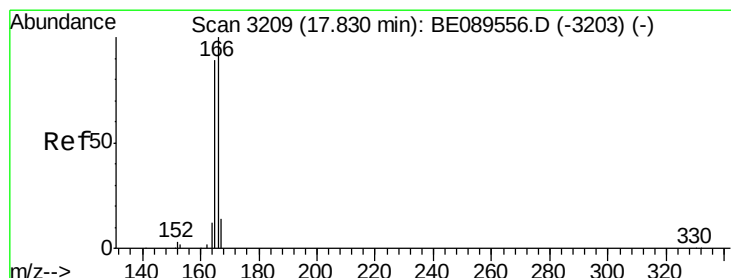
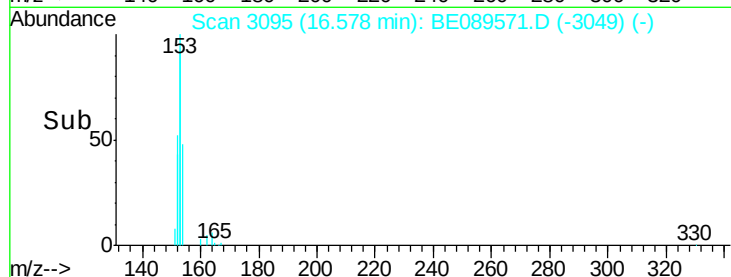
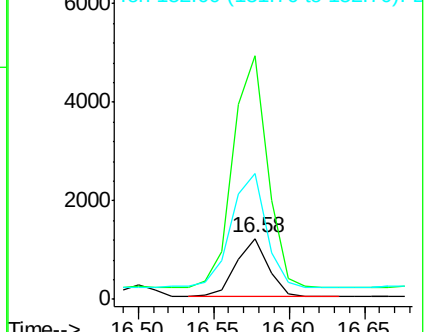
152 229.4 173.0 259.4



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: 0.06 ng

RT: 17.83 min Scan# 3209

Delta R.T. -0.00 min

Lab File: BE089571.D

Acq: 11 Feb 2015 7:28

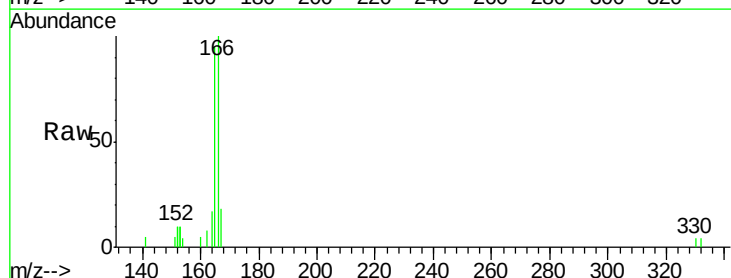
Tgt Ion:166 Resp: 1859

Ion Ratio Lower Upper

166 100

165 92.7 75.1 112.7

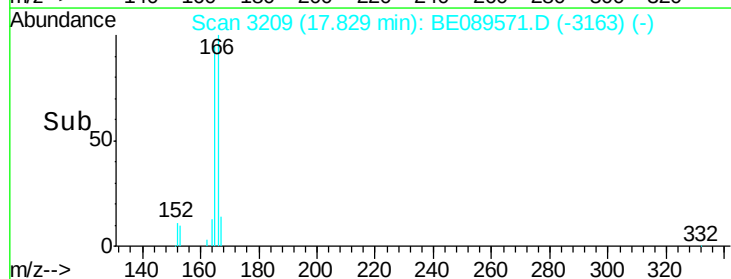
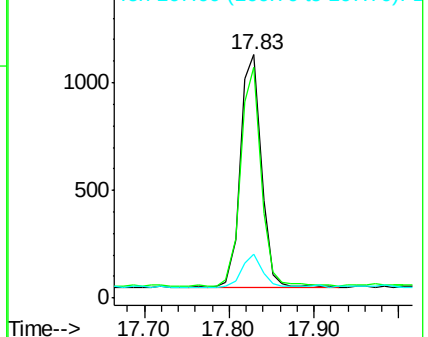
167 14.7 10.6 16.0

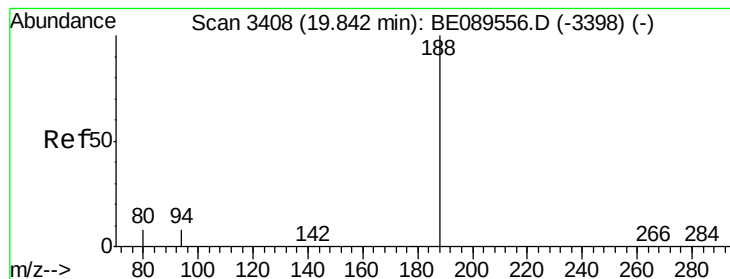


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

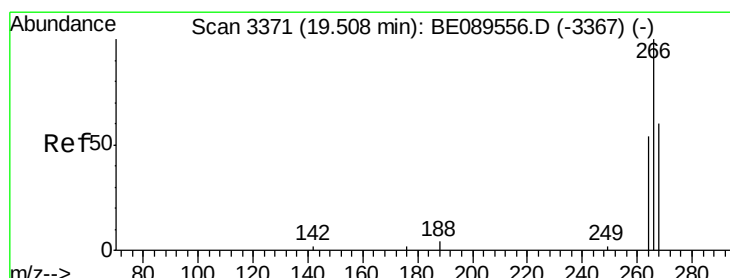
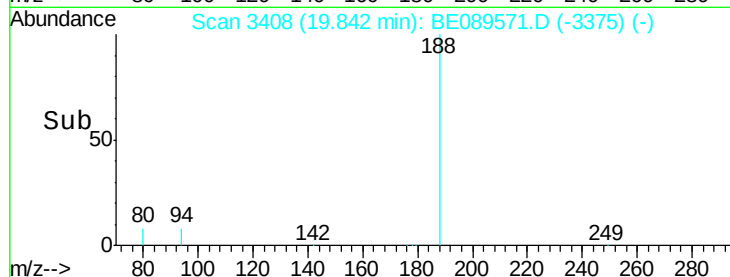
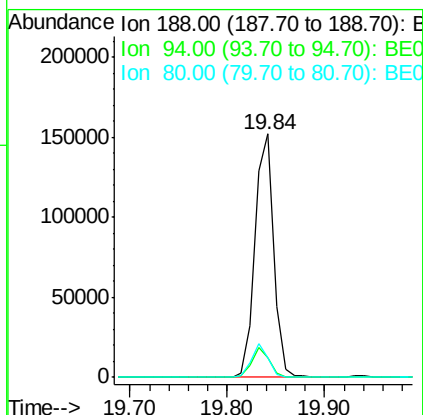
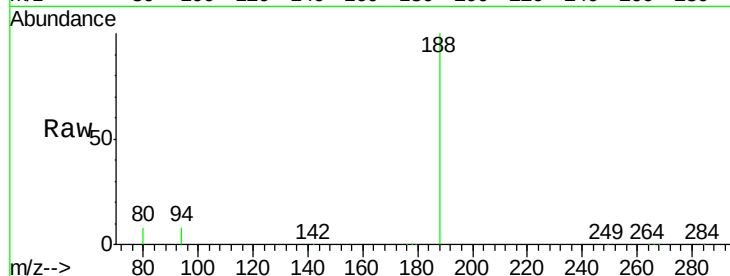




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.84 min Scan# 3408
Delta R.T. -0.00 min
Lab File: BE089571.D
Acq: 11 Feb 2015 7:28

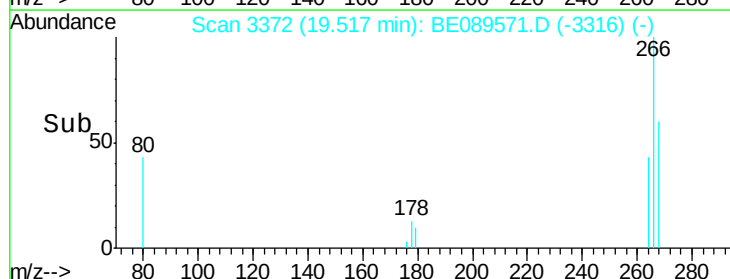
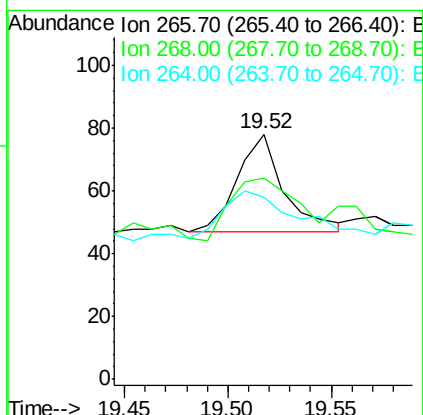
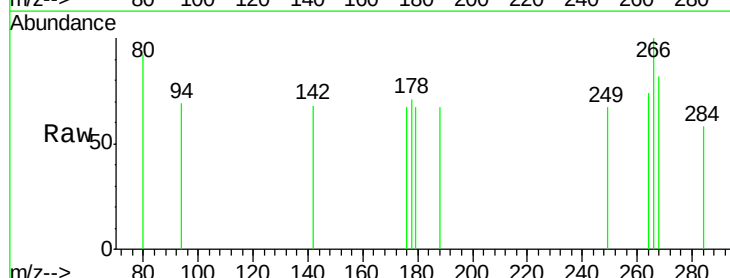
Instrument :
BNA_E
ClientSampleId :

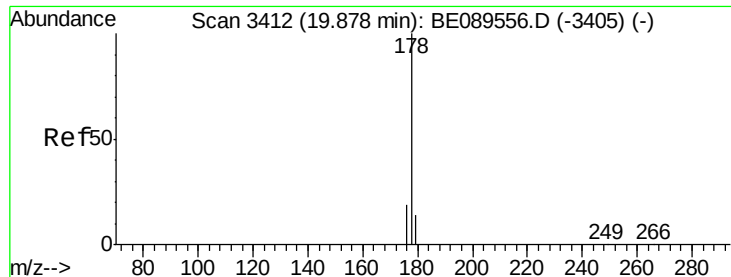
Tgt Ion:	188	Resp:	200069
Ion	Ratio	Lower	Upper
188	100		
94	8.1	6.2	9.2
80	8.2	6.4	9.6



#12
Pentachlorophenol
Concen: 0.34 ng
RT: 19.52 min Scan# 3372
Delta R.T. 0.01 min
Lab File: BE089571.D
Acq: 11 Feb 2015 7:28

Tgt Ion:	266	Resp:	49
Ion	Ratio	Lower	Upper
266	100		
268	82.1	57.9	86.9
264	74.4	54.6	81.8





#13

Phenanthrene

Concen: 0.07 ng

RT: 19.88 min Scan# 3412

Delta R.T. -0.00 min

Lab File: BE089571.D

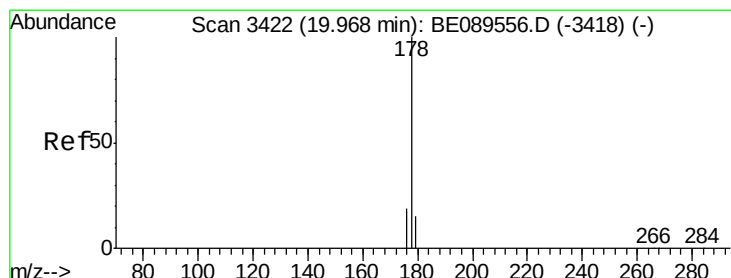
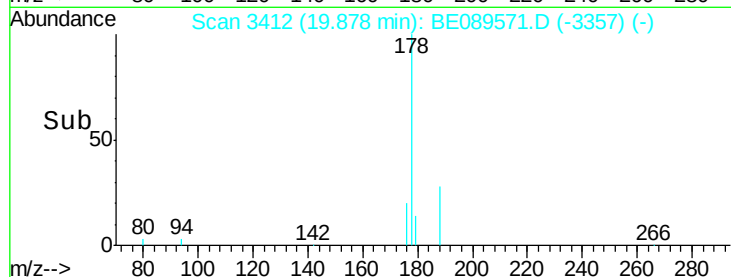
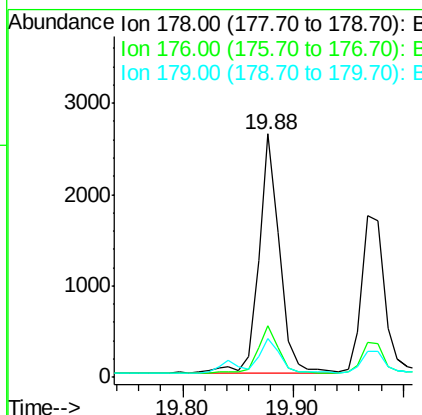
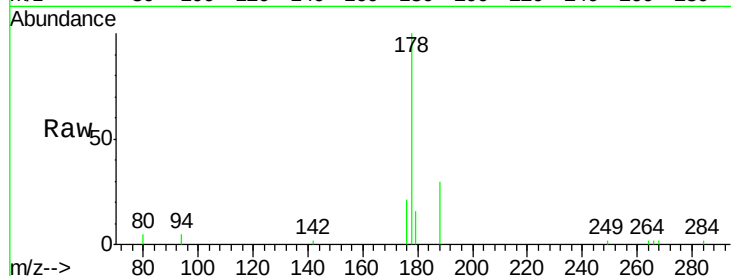
Acq: 11 Feb 2015 7:28

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	178	Resp:	3397
Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.1	22.7
179	14.0	12.1	18.1



#14

Anthracene

Concen: 0.06 ng

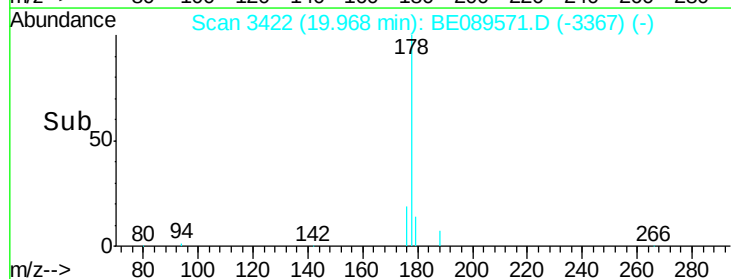
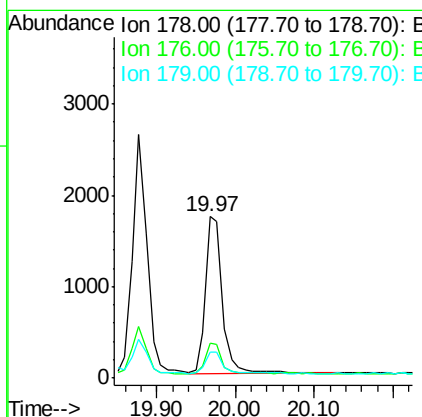
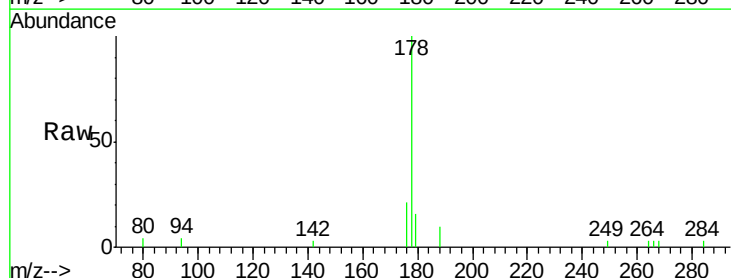
RT: 19.97 min Scan# 3422

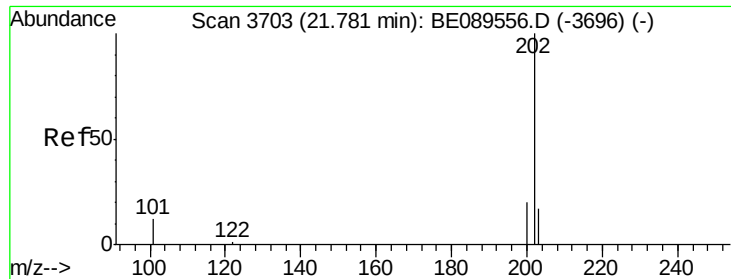
Delta R.T. -0.00 min

Lab File: BE089571.D

Acq: 11 Feb 2015 7:28

Tgt Ion:	178	Resp:	2560
Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.6	21.8
179	13.8	12.7	19.1

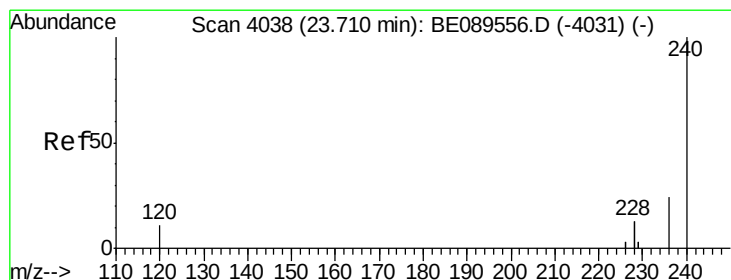
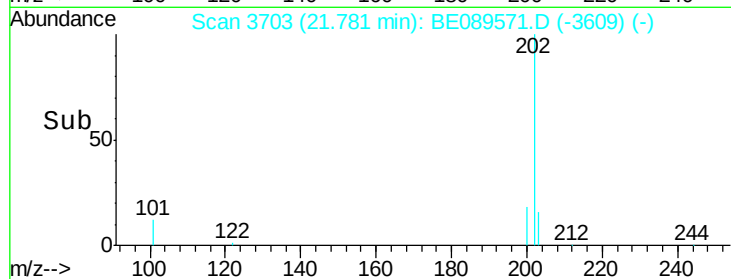
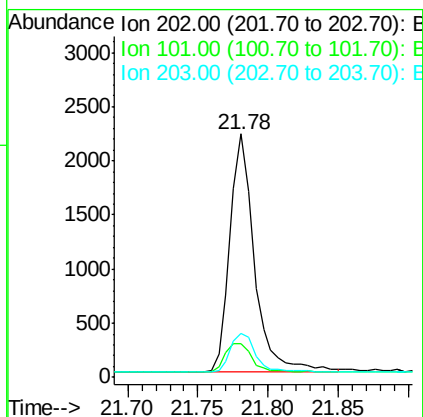
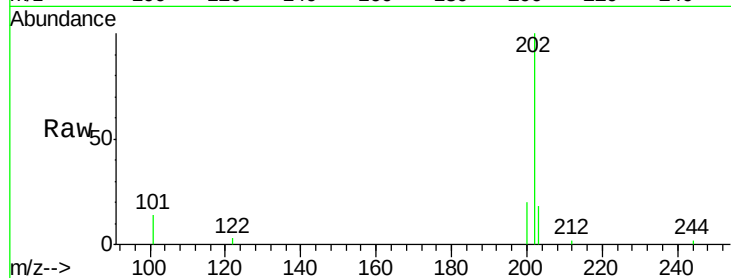




#15
 Fluoranthene
 Concen: 0.06 ng
 RT: 21.78 min Scan# 3703
 Delta R.T. -0.00 min
 Lab File: BE089571.D
 Acq: 11 Feb 2015 7:28

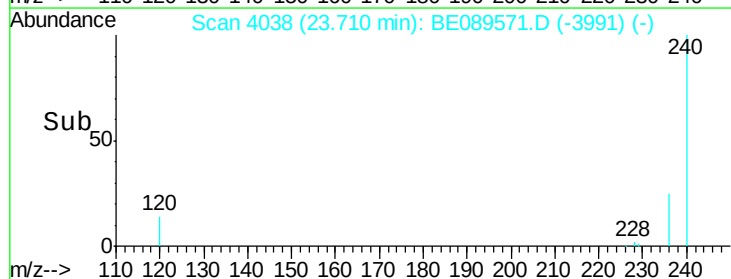
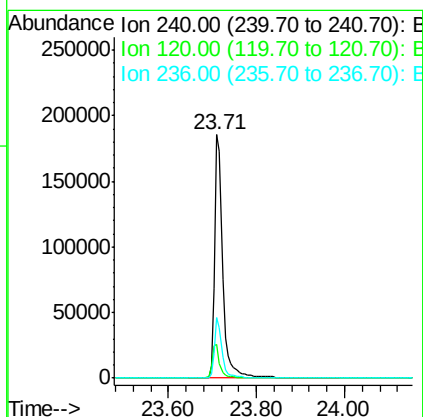
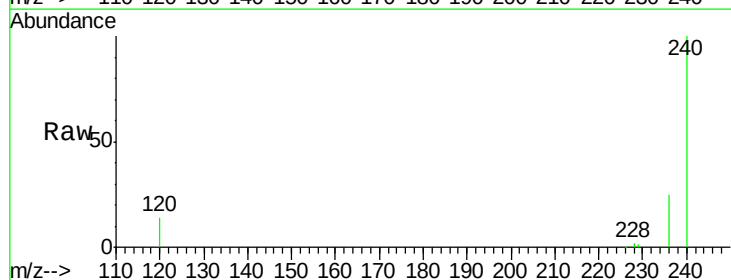
Instrument :
 BNA_E
 ClientSampleId :

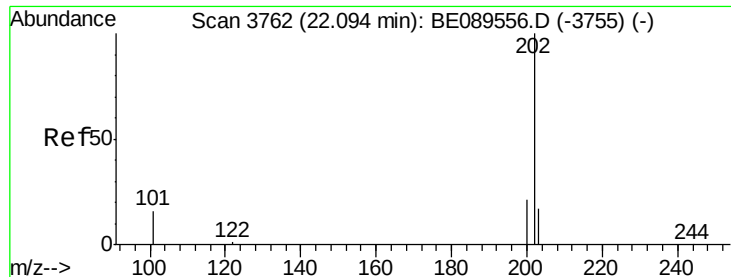
Tgt Ion: 202 Resp: 2676
 Ion Ratio Lower Upper
 202 100
 101 13.5 10.4 15.6
 203 17.0 13.6 20.4



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.71 min Scan# 4038
 Delta R.T. 0.00 min
 Lab File: BE089571.D
 Acq: 11 Feb 2015 7:28

Tgt Ion: 240 Resp: 236524
 Ion Ratio Lower Upper
 240 100
 120 13.7 9.3 13.9
 236 25.0 19.3 28.9

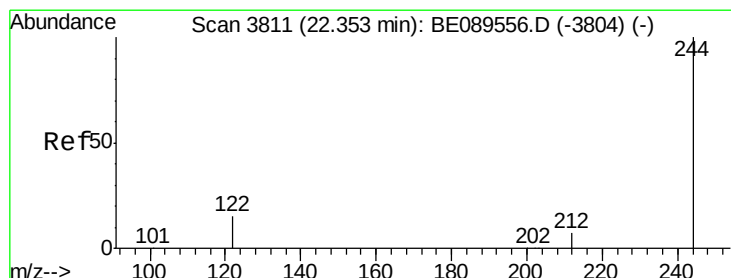
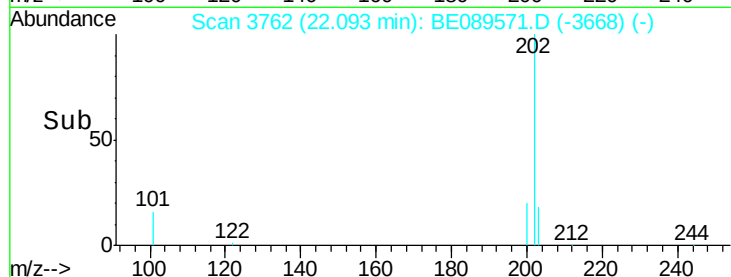
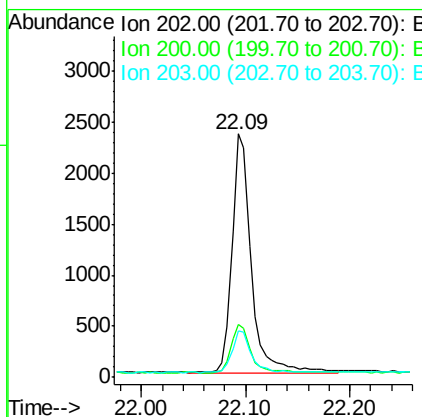
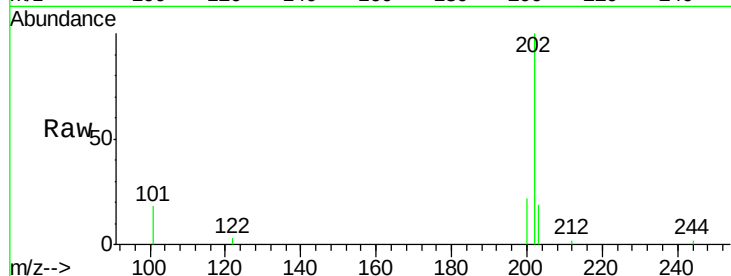




#17
 Pyrene
 Concen: 0.06 ng
 RT: 22.09 min Scan# 3762
 Delta R.T. -0.00 min
 Lab File: BE089571.D
 Acq: 11 Feb 2015 7:28

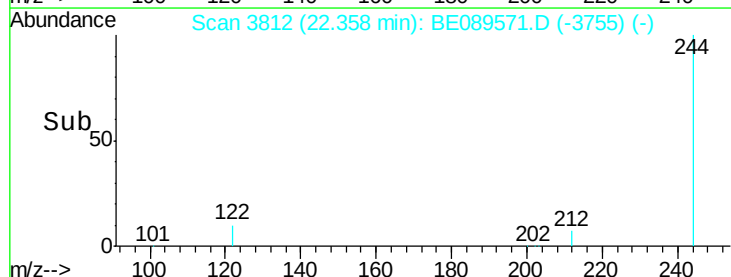
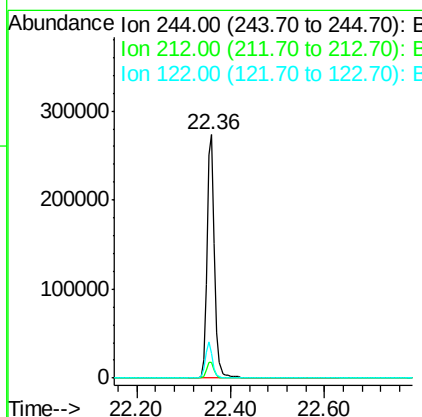
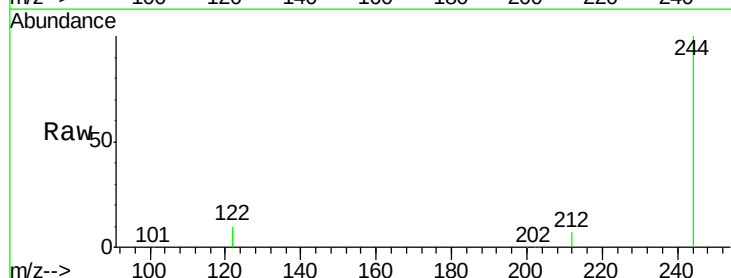
Instrument :
 BNA_E
 ClientSampleId :

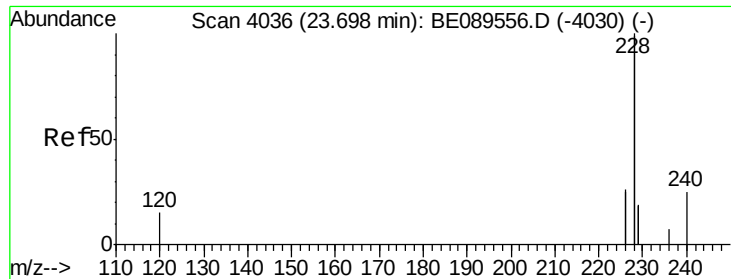
Tgt Ion: 202 Resp: 2957
 Ion Ratio Lower Upper
 202 100
 200 20.5 16.6 24.8
 203 17.8 14.2 21.2



#18
 Terphenyl-d14
 Concen: 9.82 ng
 RT: 22.36 min Scan# 3812
 Delta R.T. 0.00 min
 Lab File: BE089571.D
 Acq: 11 Feb 2015 7:28

Tgt Ion: 244 Resp: 289274
 Ion Ratio Lower Upper
 244 100
 212 6.5 5.9 8.9
 122 10.1 12.2 18.2#





#19

Benzo(a)anthracene

Concen: 0.06 ng

RT: 23.70 min Scan# 4037

Delta R.T. 0.01 min

Lab File: BE089571.D

Acq: 11 Feb 2015 7:28

Instrument :

BNA_E

ClientSampled :

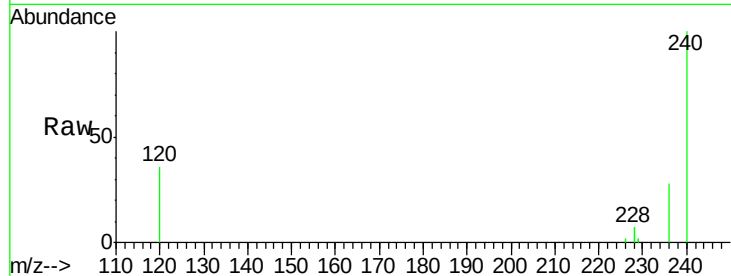
Tgt Ion:228 Resp: 12414

Ion Ratio Lower Upper

228 100

226 24.0 21.0 31.4

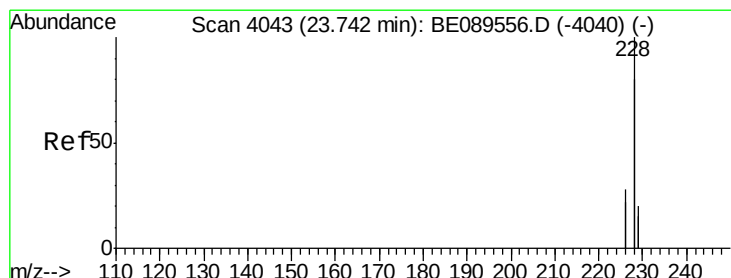
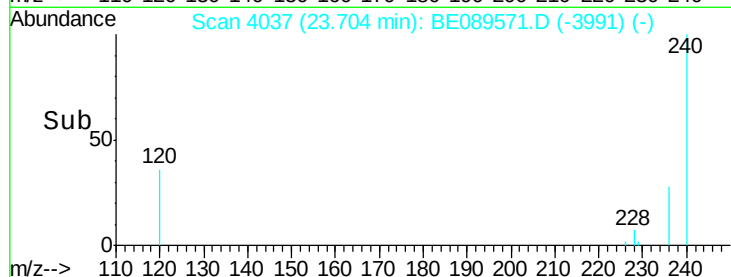
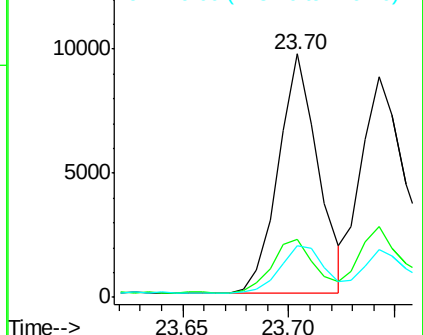
229 21.3 15.2 22.8



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#20

Chrysene

Concen: 0.07 ng

RT: 23.74 min Scan# 4043

Delta R.T. 0.00 min

Lab File: BE089571.D

Acq: 11 Feb 2015 7:28

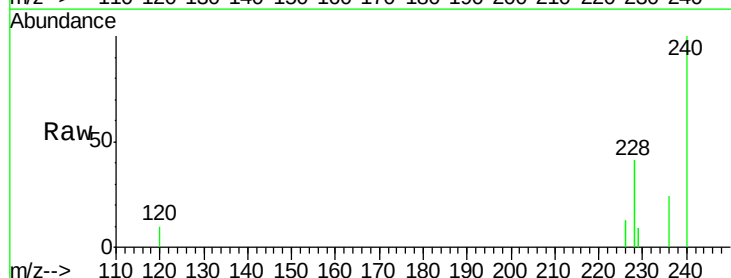
Tgt Ion:228 Resp: 15737

Ion Ratio Lower Upper

228 100

226 31.8 22.6 34.0

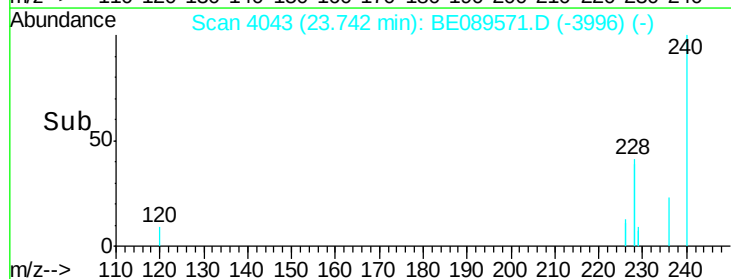
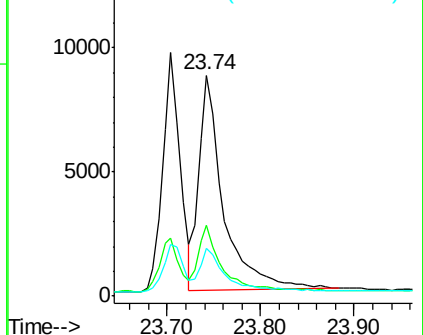
229 21.6 15.6 23.4

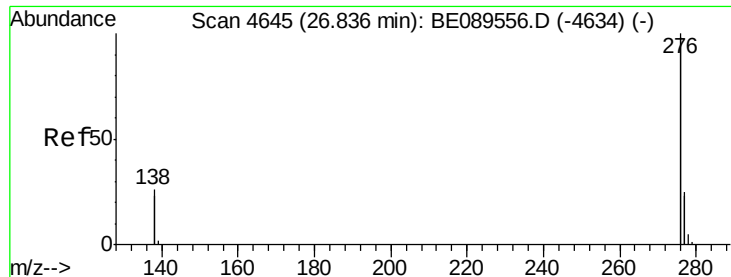


Abundance Ion 228.00 (227.70 to 228.70): E

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: 0.05 ng

RT: 26.83 min Scan# 4644

Delta R.T. -0.01 min

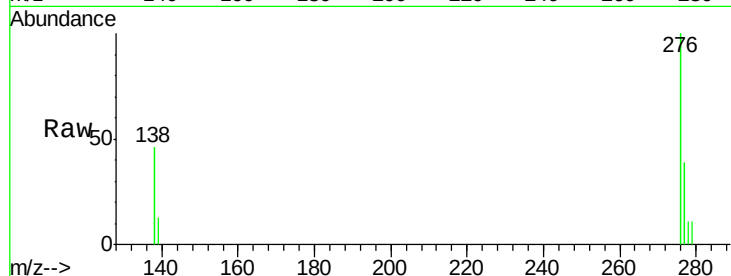
Lab File: BE089571.D

Acq: 11 Feb 2015 7:28

Instrument :

BNA_E

ClientSampleId :



Tgt Ion:276 Resp: 3564

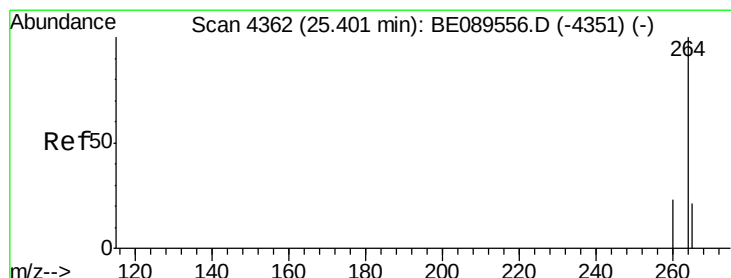
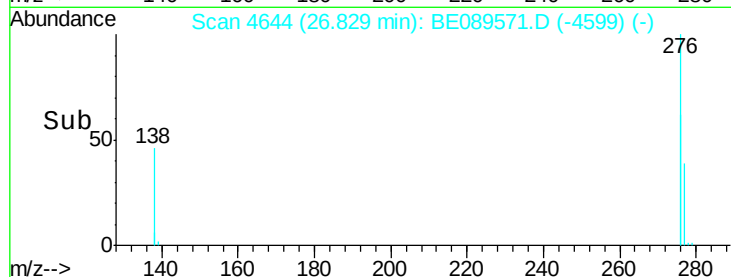
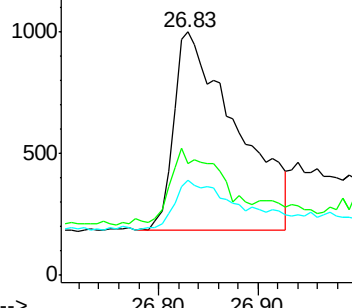
Ion Ratio Lower Upper

276 100

138 29.8 20.2 30.4

277 26.4 19.6 29.4

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# 4363

Delta R.T. 0.00 min

Lab File: BE089571.D

Acq: 11 Feb 2015 7:28

Tgt Ion:264 Resp: 233758

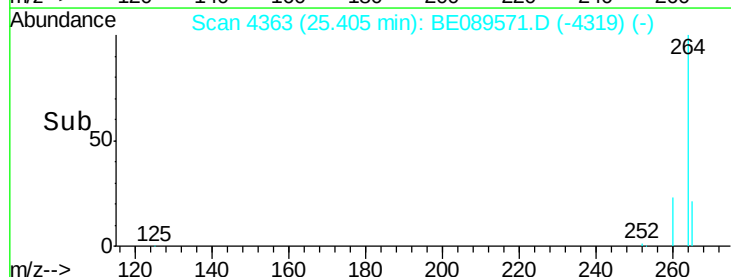
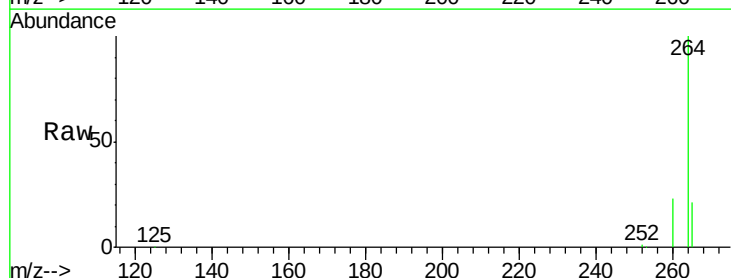
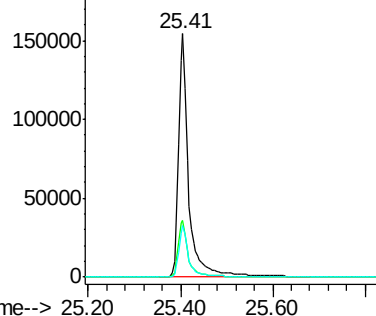
Ion Ratio Lower Upper

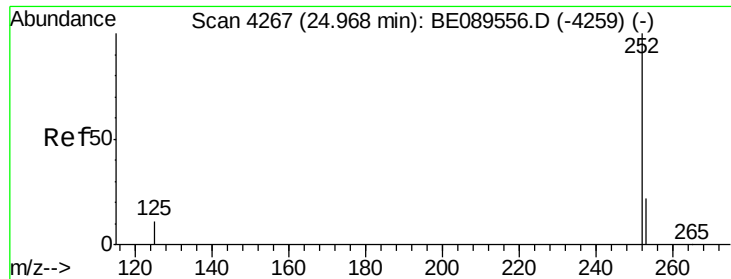
264 100

260 23.4 18.7 28.1

265 21.3 16.8 25.2

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: 0.25 ng

RT: 24.97 min Scan# 4267

Delta R.T. -0.00 min

Lab File: BE089571.D

Acq: 11 Feb 2015 7:28

Instrument :

BNA_E

ClientSampled :

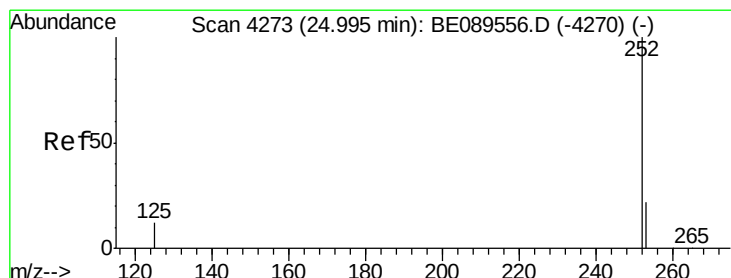
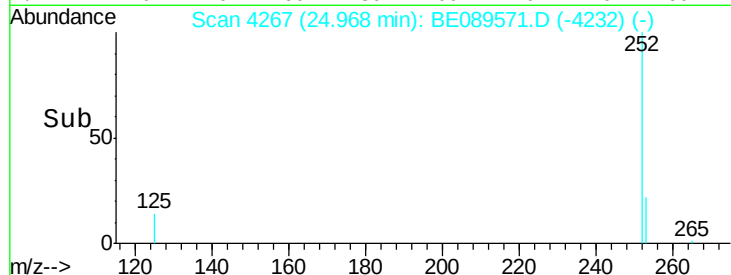
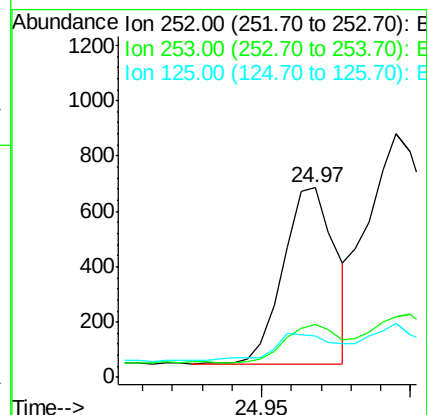
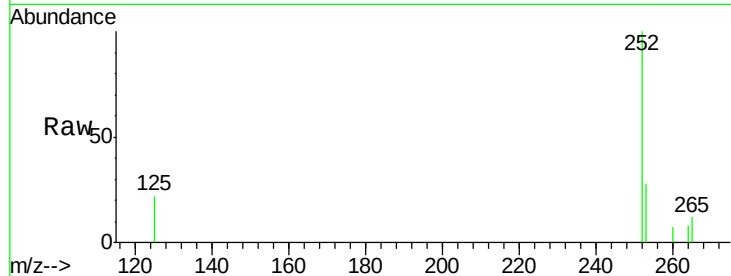
Tgt Ion:252 Resp: 775

Ion Ratio Lower Upper

252 100

253 27.8 17.8 26.8#

125 21.6 9.3 13.9#



#24

Benzo(k)fluoranthene

Concen: 0.04 ng

RT: 25.00 min Scan# 4273

Delta R.T. -0.00 min

Lab File: BE089571.D

Acq: 11 Feb 2015 7:28

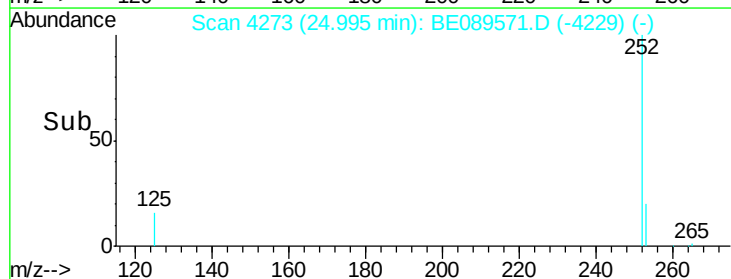
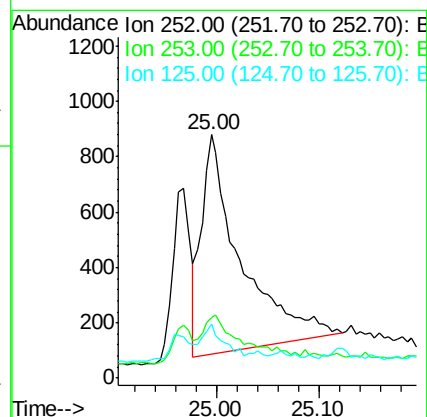
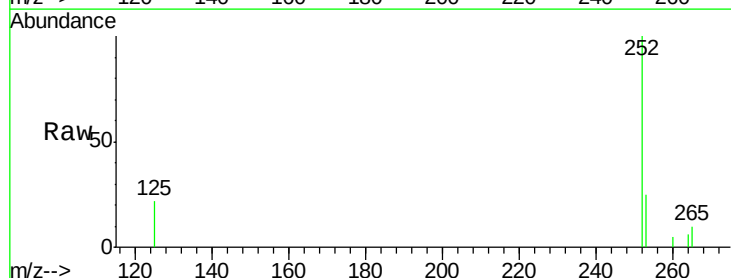
Tgt Ion:252 Resp: 2109

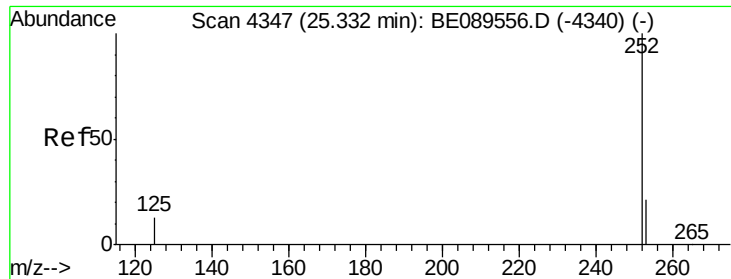
Ion Ratio Lower Upper

252 100

253 25.0 17.5 26.3

125 22.0 9.6 14.4#





#25

Benzo(a)pyrene

Concen: 0.21 ng

RT: 25.33 min Scan# 4347

Delta R.T. 0.00 min

Lab File: BE089571.D

Acq: 11 Feb 2015 7:28

Instrument :

BNA_E

ClientSampleId :

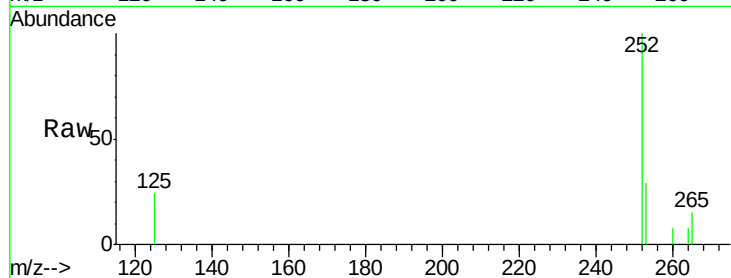
Tgt Ion:252 Resp: 1007

Ion Ratio Lower Upper

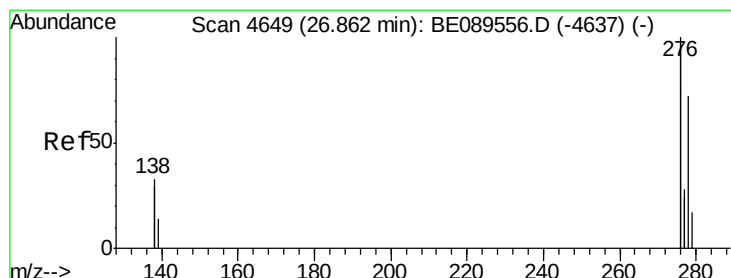
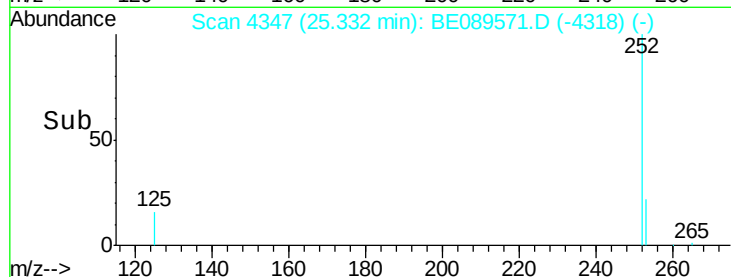
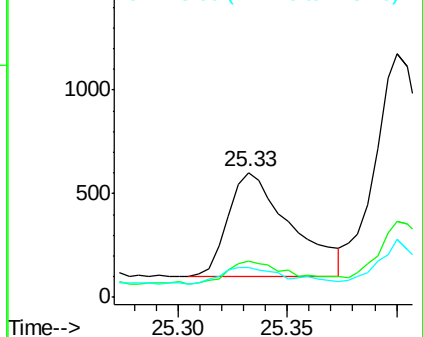
252 100

253 29.2 17.4 26.0#

125 24.4 11.1 16.7#



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: 0.14 ng

RT: 26.86 min Scan# 4649

Delta R.T. 0.00 min

Lab File: BE089571.D

Acq: 11 Feb 2015 7:28

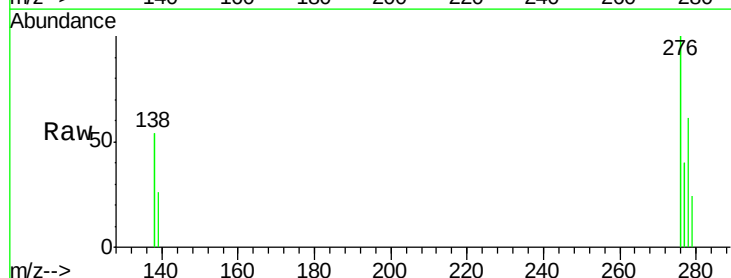
Tgt Ion:278 Resp: 617

Ion Ratio Lower Upper

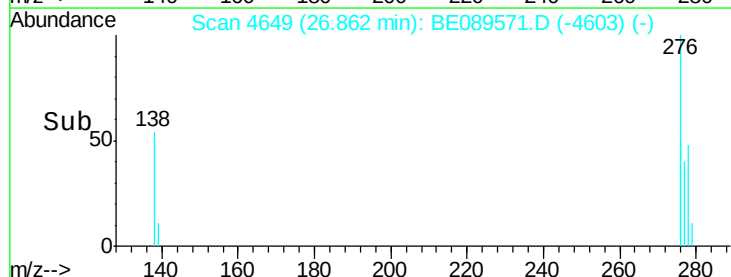
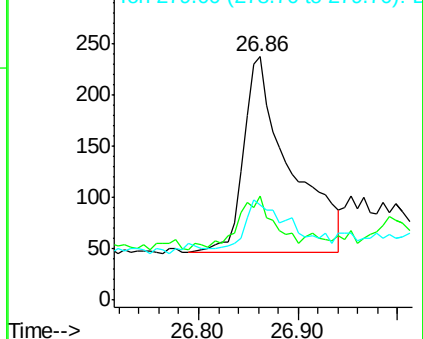
278 100

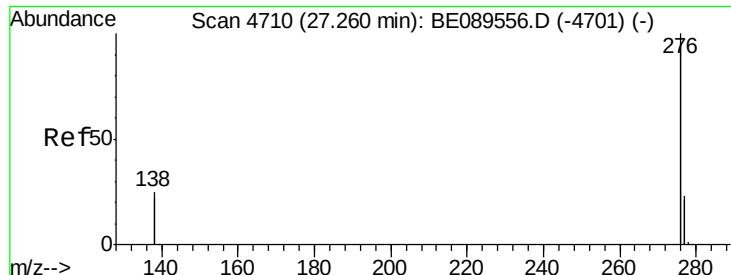
139 42.9 16.1 24.1#

279 39.1 19.6 29.4#



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

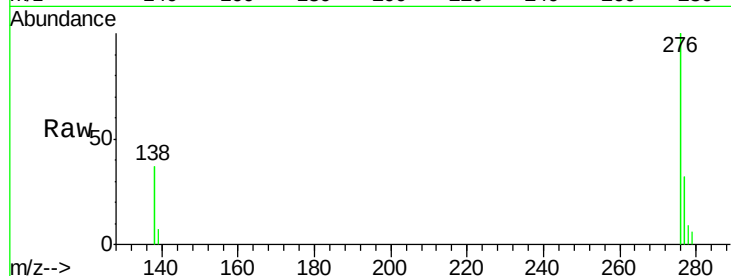




#27
 Benzo(g,h,i)perylene
 Concen: 0.03 ng
 RT: 27.26 min Scan# 4710
 Delta R.T. 0.00 min
 Lab File: BE089571.D
 Acq: 11 Feb 2015 7:28

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 276 Resp: 5572
 Ion Ratio Lower Upper
 276 100
 277 32.1 18.7 28.1#
 138 36.8 19.7 29.5#



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

