

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021015\
 Data File : BE089552.D
 Acq On : 10 Feb 2015 16:17
 Operator : TP/IZ
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC0.1

Quant Time: Feb 11 01:17:42 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 01:08:43 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.42	152	34437	5.00	ng	0.00
2) Naphthalene-d8	12.32	136	131145	5.00	ng	0.00
6) Acenaphthene-d10	16.50	164	54333	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	108830	5.00	ng	0.00
16) Chrysene-d12	23.71	240	129591	5.00	ng	0.00
22) Perylene-d12	25.40	264	130755	5.00	ng	0.00

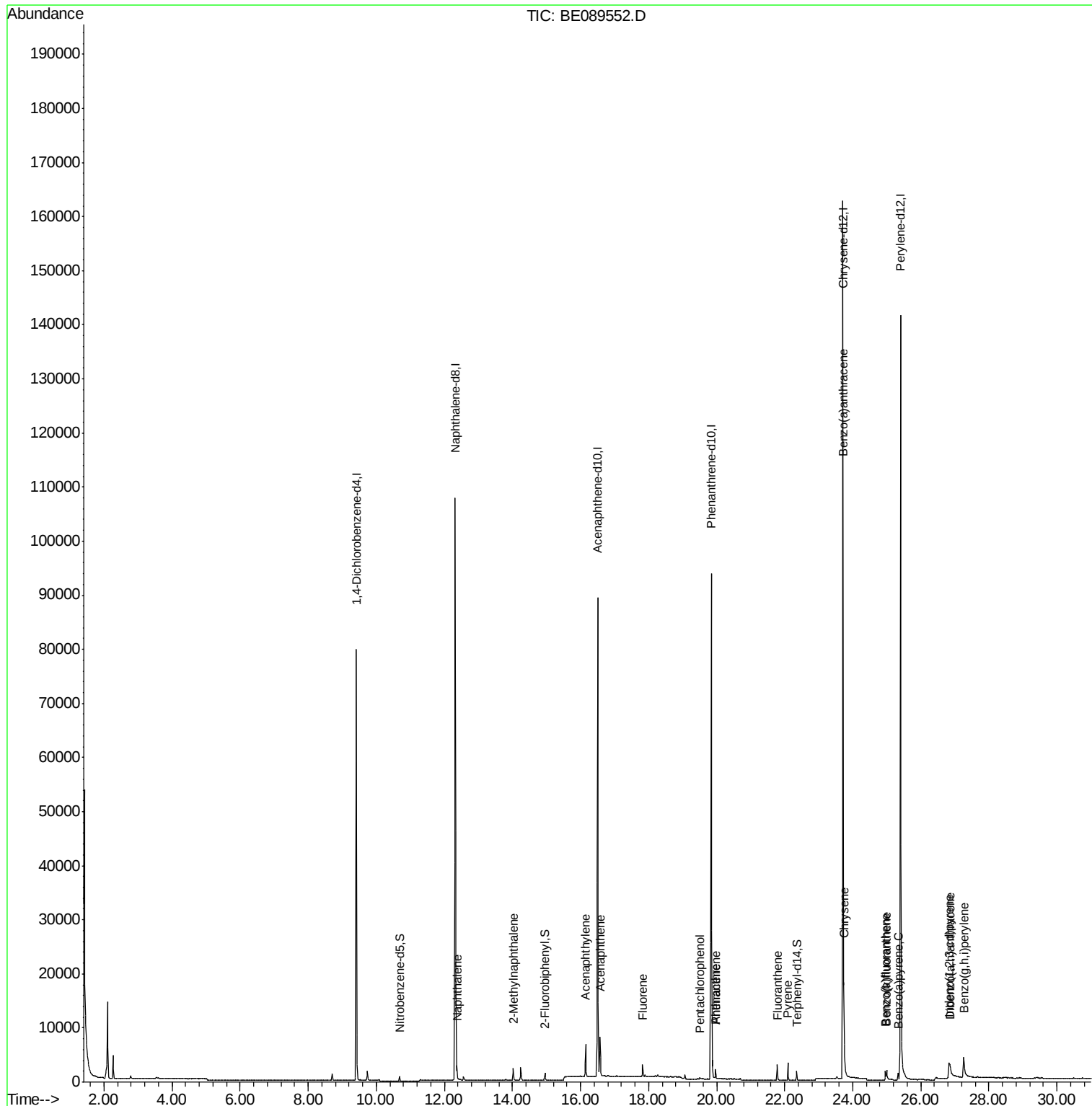
System Monitoring Compounds						
3) Nitrobenzene-d5	10.68	82	715	0.09	ng	0.00
7) 2-Fluorobiphenyl	14.95	172	1420	0.11	ng	0.00
18) Terphenyl-d14	22.36	244	1578	0.09	ng	0.00

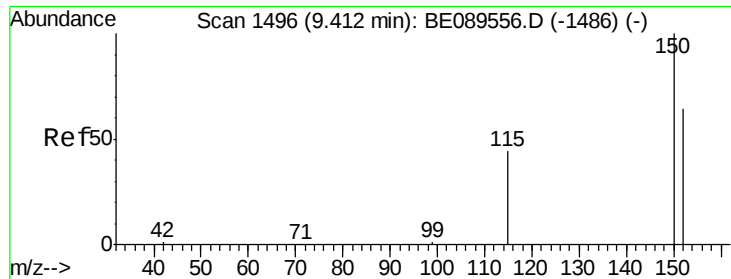
Target Compounds						Qvalue
4) Naphthalene	12.37	128	3016	0.11	ng	# 93
5) 2-Methylnaphthalene	14.03	142	1597	0.10	ng	97
8) Acenaphthylene	16.15	152	8389	0.10	ng	98
9) Acenaphthene	16.58	154	1450	0.11	ng	88
10) Fluorene	17.83	166	1583	0.11	ng	# 99
12) Pentachlorophenol	19.51	266	187	0.06	ng	91
13) Phenanthrene	19.97	178	1922	0.08	ng	98
14) Anthracene	19.97	178	1922	0.09	ng	98
15) Fluoranthene	21.78	202	2292	0.10	ng	99
17) Pyrene	22.10	202	2456	0.09	ng	100
19) Benzo(a)anthracene	23.70	228	10489	0.10	ng	99
20) Chrysene	23.74	228	12301	0.11	ng	98
21) Indeno(1,2,3-cd)pyrene	26.83	276	7833	0.08	ng	# 86
23) Benzo(b)fluoranthene	24.96	252	1594	0.08	ng	# 92
24) Benzo(k)fluoranthene	25.00	252	2428	0.08	ng	# 92
25) Benzo(a)pyrene	25.33	252	1502	0.08	ng	# 86
26) Dibenzo(a,h)anthracene	26.86	278	1544	0.08	ng	# 85
27) Benzo(g,h,i)perylene	27.26	276	8048	0.09	ng	# 89

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

```
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1497

Delta R.T. 0.00 min

Lab File: BE089552.D

Acq: 10 Feb 2015 16:17

Instrument :

BNA_E

LabSampleId :

SSTDIC0.1

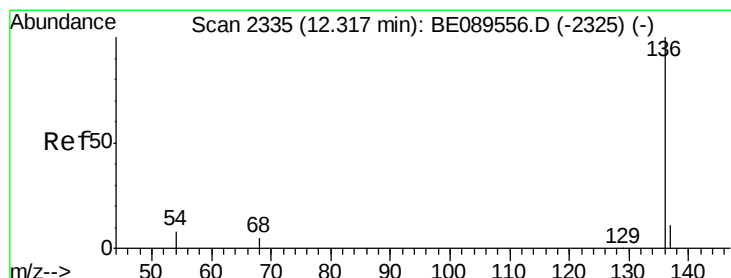
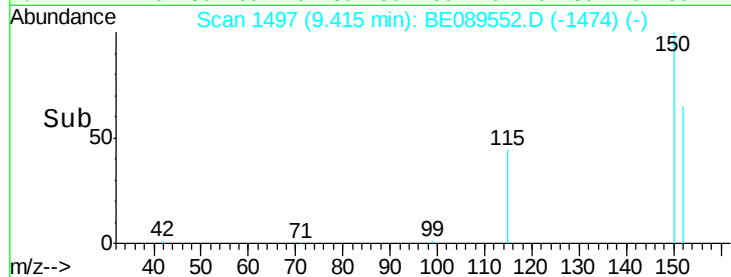
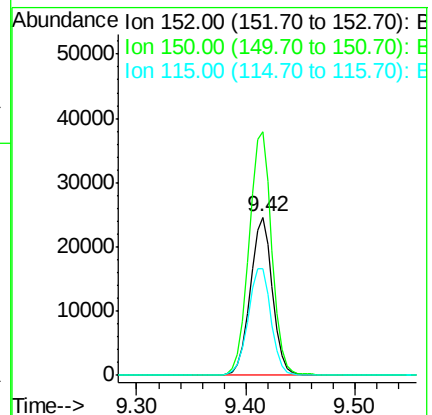
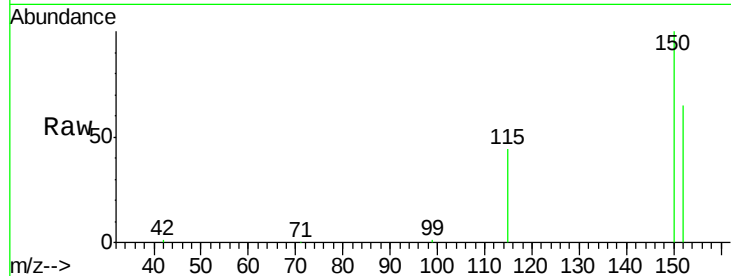
Tgt Ion:152 Resp: 34437

Ion Ratio Lower Upper

152 100

150 153.7 125.6 188.4

115 67.5 55.8 83.6



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.32 min Scan# 2336

Delta R.T. 0.01 min

Lab File: BE089552.D

Acq: 10 Feb 2015 16:17

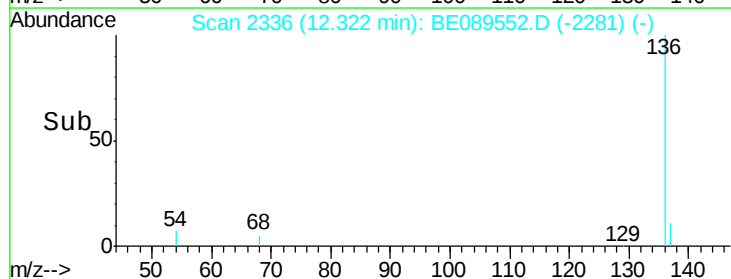
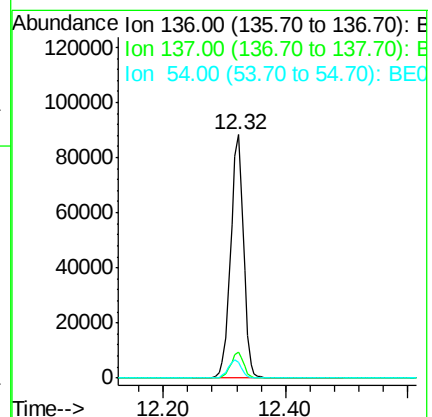
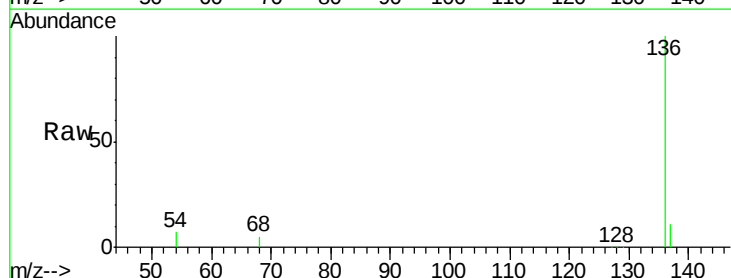
Tgt Ion:136 Resp: 131145

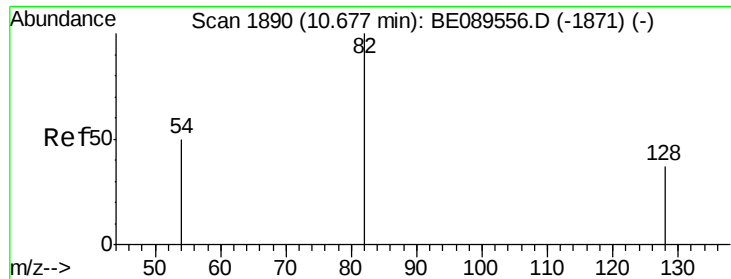
Ion Ratio Lower Upper

136 100

137 10.9 8.6 13.0

54 6.7 6.6 9.8





#3

Nitrobenzene-d5

Concen: 0.09 ng

RT: 10.68 min Scan# 1891

Delta R.T. 0.00 min

Lab File: BE089552.D

Acq: 10 Feb 2015 16:17

Instrument :

BNA_E

LabSampleId :

SSTDIC0.1

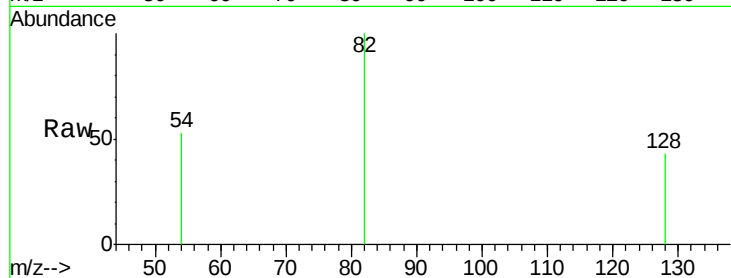
Tgt Ion: 82 Resp: 715

Ion Ratio Lower Upper

82 100

128 42.8 30.4 45.6

54 52.8 40.7 61.1



Abundance Ion 82.00 (81.70 to 82.70): BE089552.D (-1871) (-)

Ion 128.00 (127.70 to 128.70): BE089552.D (-1871) (-)

Ion 54.00 (53.70 to 54.70): BE089552.D (-1871) (-)

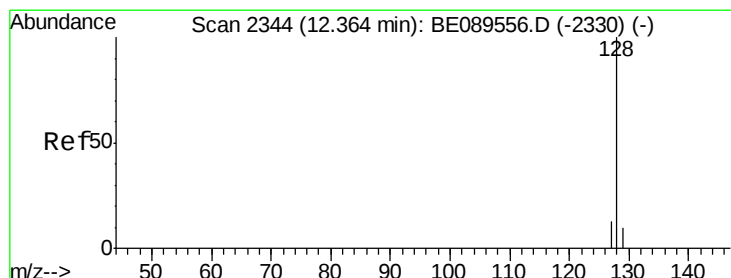
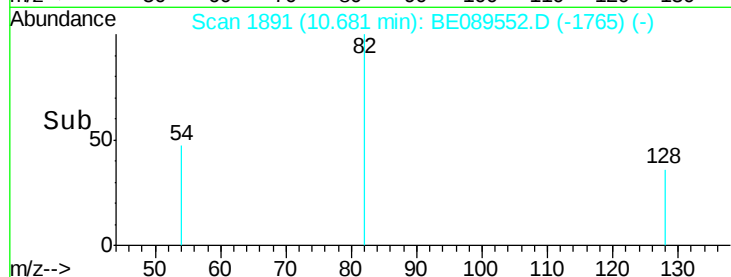
10.68

400

200

0

Time-->



#4

Naphthalene

Concen: 0.11 ng

RT: 12.37 min Scan# 2345

Delta R.T. 0.01 min

Lab File: BE089552.D

Acq: 10 Feb 2015 16:17

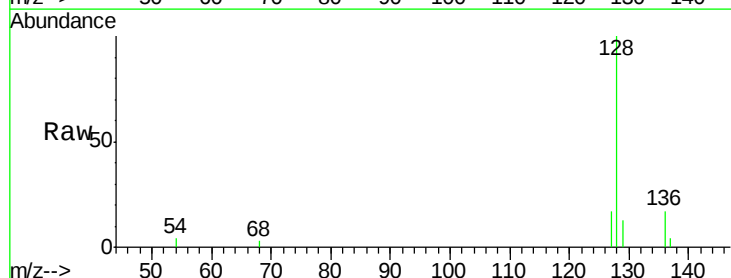
Tgt Ion: 128 Resp: 3016

Ion Ratio Lower Upper

128 100

129 12.6 8.5 12.7

127 16.5 10.6 15.8#



Abundance Ion 128.00 (127.70 to 128.70): BE089552.D (-2287) (-)

Ion 129.00 (128.70 to 129.70): BE089552.D (-2287) (-)

Ion 127.00 (126.70 to 127.70): BE089552.D (-2287) (-)

12.37

2000

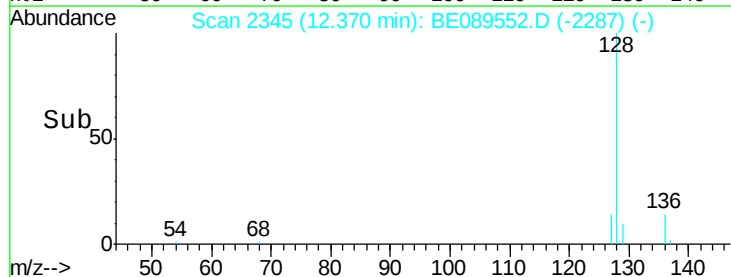
1500

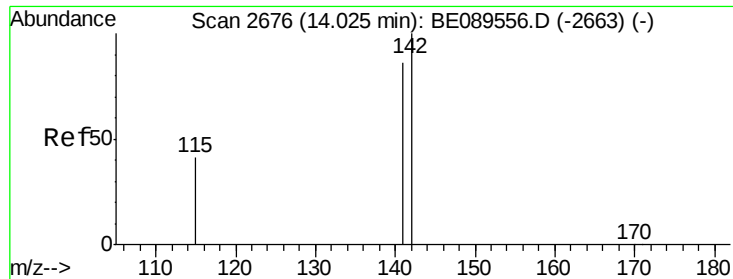
1000

500

0

Time-->





#5

2-Methylnaphthalene

Concen: 0.10 ng

RT: 14.03 min Scan# 2676

Delta R.T. 0.00 min

Lab File: BE089552.D

Acq: 10 Feb 2015 16:17

Instrument :

BNA_E

LabSampleId :

SSTDIC0.1

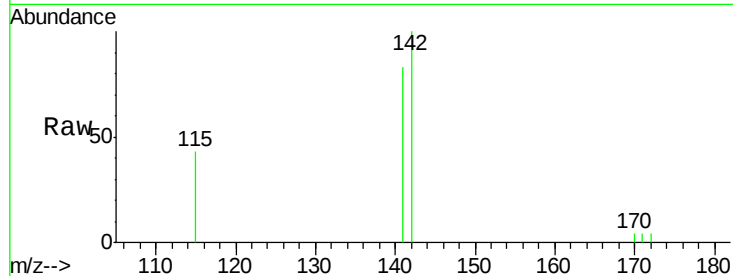
Tgt Ion:142 Resp: 1597

Ion Ratio Lower Upper

142 100

141 82.8 68.6 102.8

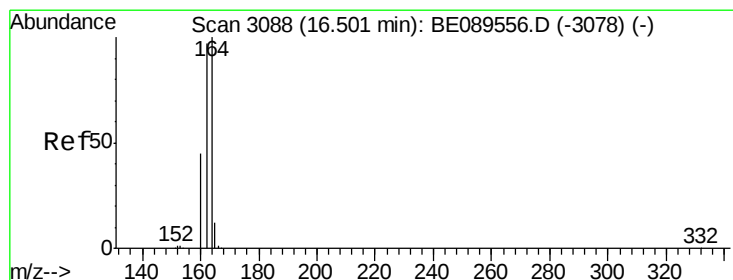
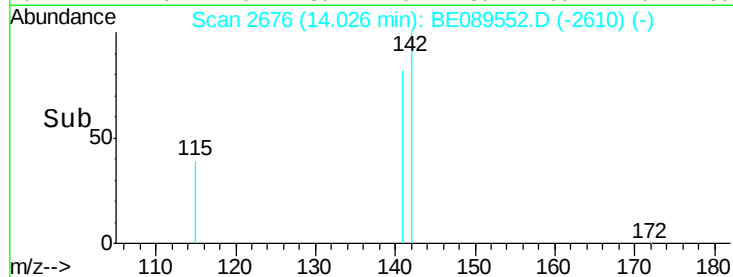
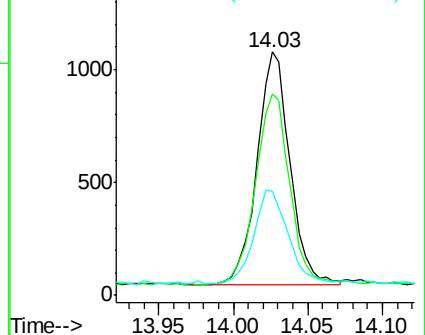
115 42.8 33.0 49.6



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.50 min Scan# 3088

Delta R.T. -0.00 min

Lab File: BE089552.D

Acq: 10 Feb 2015 16:17

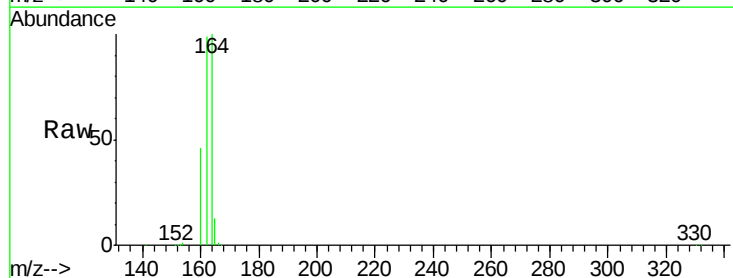
Tgt Ion:164 Resp: 54333

Ion Ratio Lower Upper

164 100

162 99.3 77.8 116.6

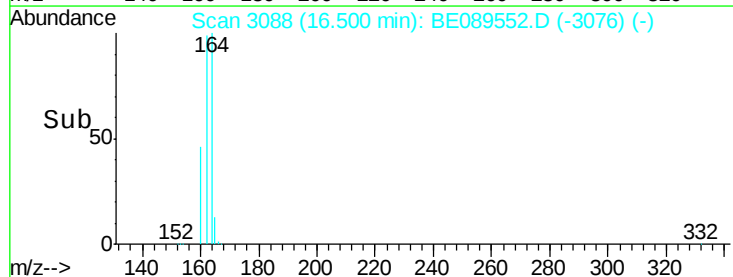
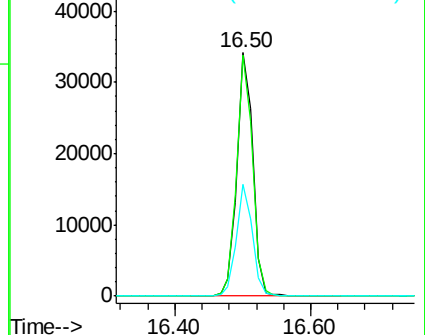
160 46.1 36.2 54.2

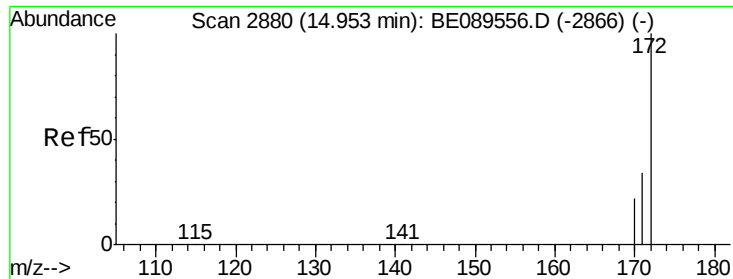


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 0.11 ng

RT: 14.95 min Scan# 2880

Delta R.T. 0.00 min

Lab File: BE089552.D

Acq: 10 Feb 2015 16:17

Instrument :

BNA_E

LabSampleId :

SSTDIC0.1

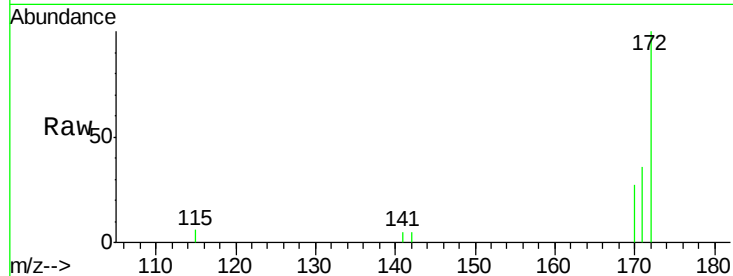
Tgt Ion:172 Resp: 1420

Ion Ratio Lower Upper

172 100

171 36.2 27.4 41.0

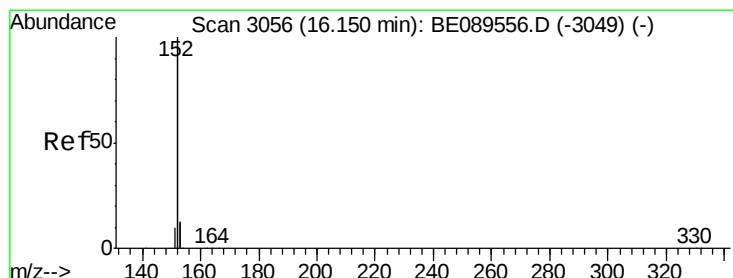
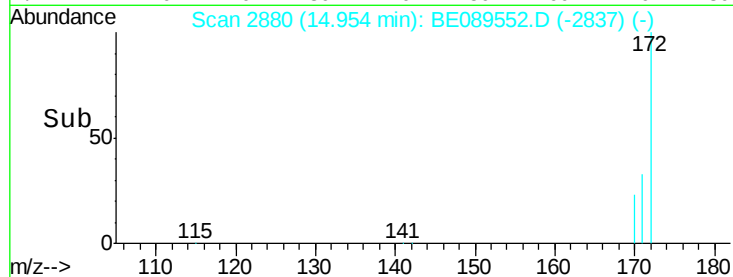
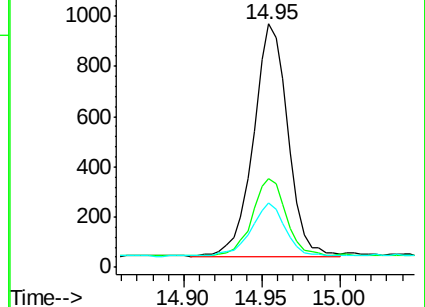
170 26.6 18.3 27.5



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: 0.10 ng

RT: 16.15 min Scan# 3056

Delta R.T. -0.00 min

Lab File: BE089552.D

Acq: 10 Feb 2015 16:17

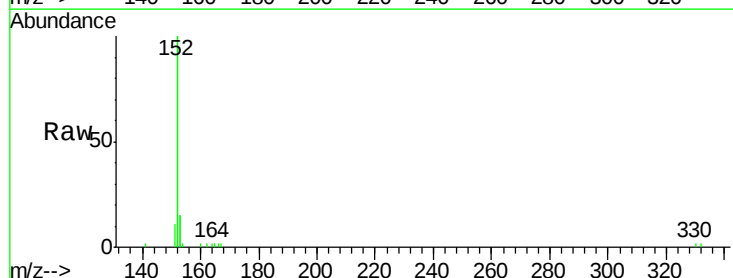
Tgt Ion:152 Resp: 8389

Ion Ratio Lower Upper

152 100

151 5.2 3.9 5.9

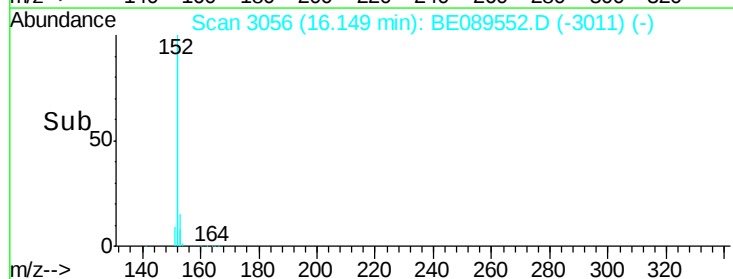
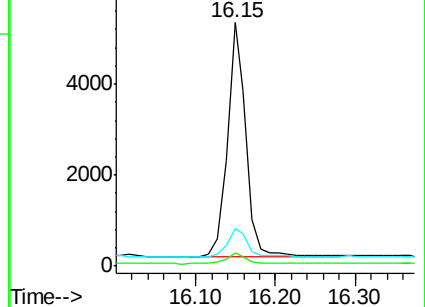
153 14.0 10.4 15.6

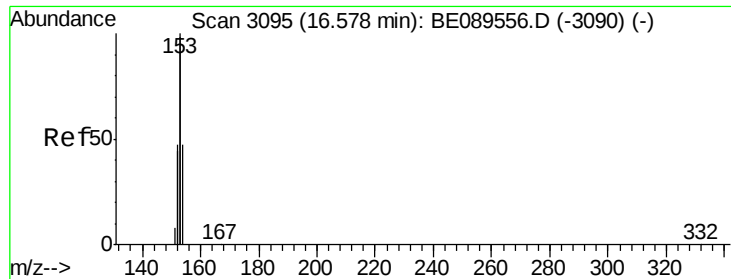


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.11 ng

RT: 16.58 min Scan# 3095

Delta R.T. -0.00 min

Lab File: BE089552.D

Acq: 10 Feb 2015 16:17

Instrument :

BNA_E

LabSampleId :

SSTDIC0.1

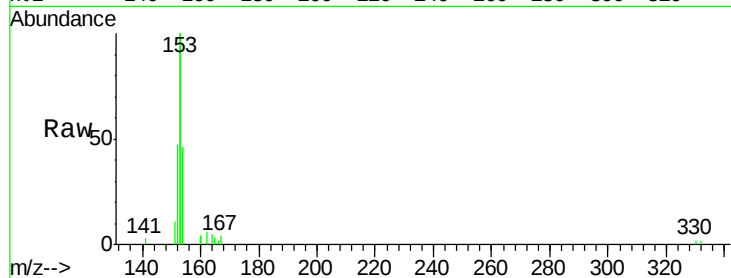
Tgt Ion:154 Resp: 1450

Ion Ratio Lower Upper

154 100

153 468.1 349.0 523.4

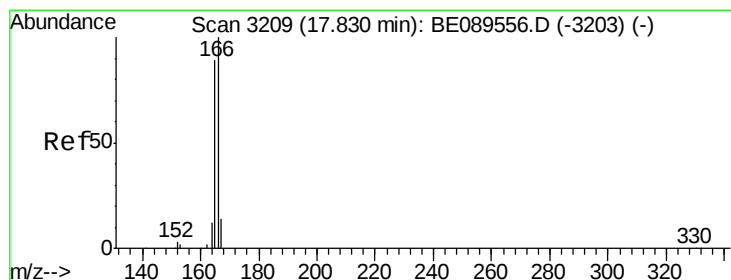
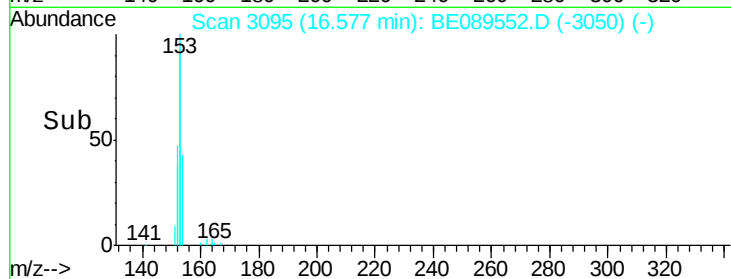
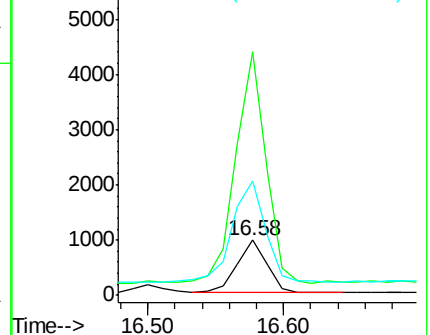
152 233.7 173.0 259.4



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: 0.11 ng

RT: 17.83 min Scan# 3209

Delta R.T. -0.00 min

Lab File: BE089552.D

Acq: 10 Feb 2015 16:17

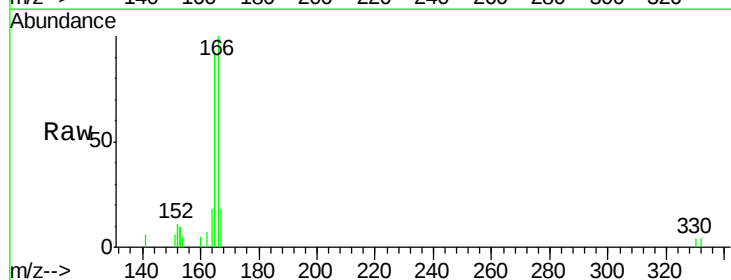
Tgt Ion:166 Resp: 1583

Ion Ratio Lower Upper

166 100

165 93.4 75.1 112.7

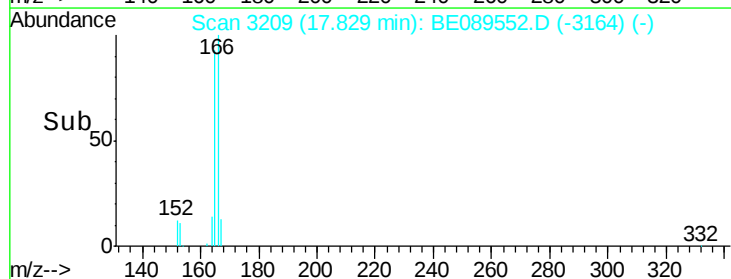
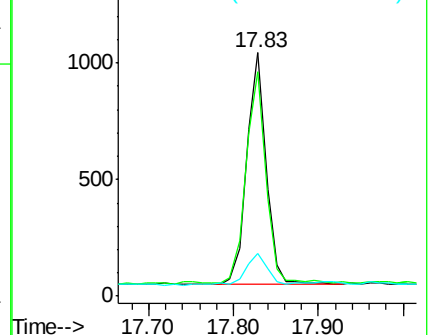
167 16.0 10.6 16.0#

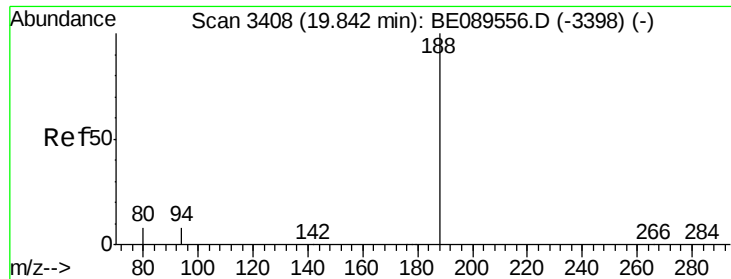


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

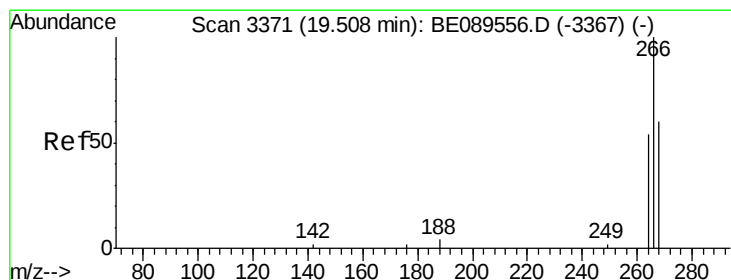
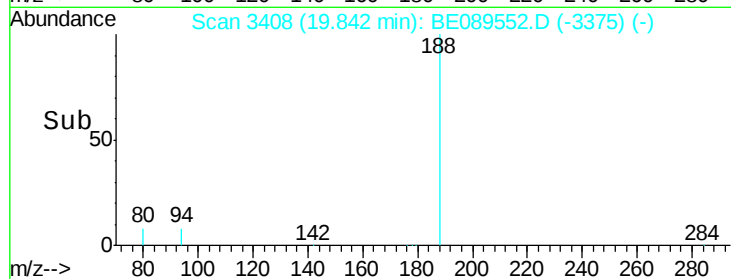
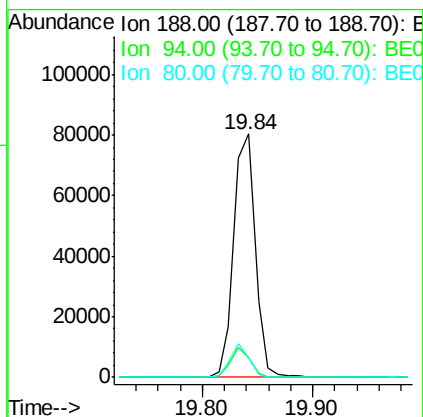
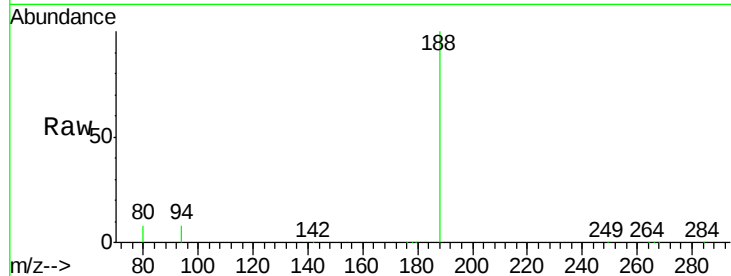




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.84 min Scan# 3408
Delta R.T. -0.00 min
Lab File: BE089552.D
Acq: 10 Feb 2015 16:17

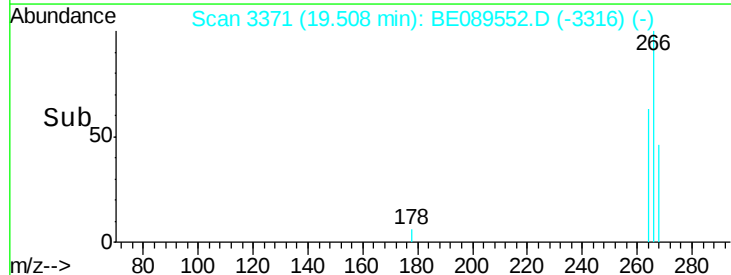
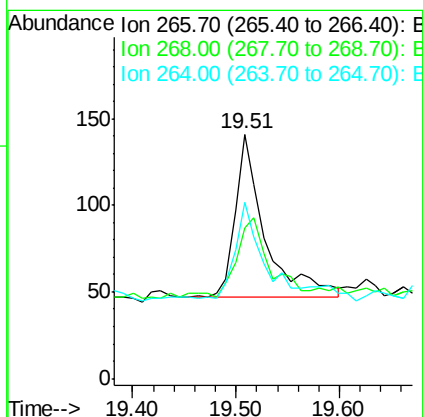
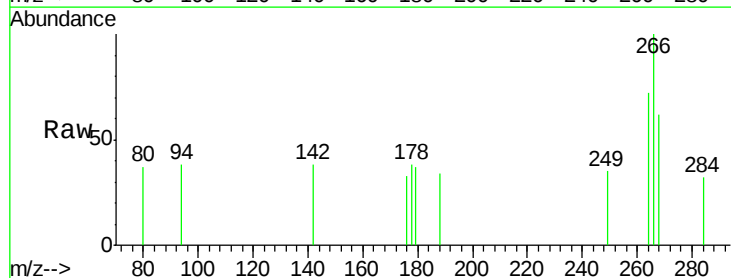
Instrument :
BNA_E
LabSampleId :
SSTDIC0.1

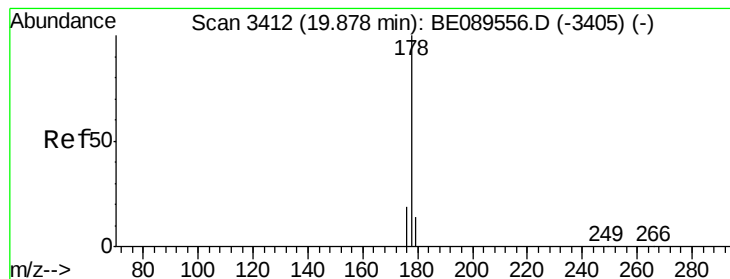
Tgt Ion:188 Resp: 108830
Ion Ratio Lower Upper
188 100
94 8.0 6.2 9.2
80 8.1 6.4 9.6



#12
Pentachlorophenol
Concen: 0.06 ng
RT: 19.51 min Scan# 3371
Delta R.T. -0.00 min
Lab File: BE089552.D
Acq: 10 Feb 2015 16:17

Tgt Ion:266 Resp: 187
Ion Ratio Lower Upper
266 100
268 61.7 57.9 86.9
264 72.3 54.6 81.8





#13

Phenanthrene

Concen: 0.08 ng

RT: 19.97 min Scan# 3422

Delta R.T. 0.09 min

Lab File: BE089552.D

Acq: 10 Feb 2015 16:17

Instrument :

BNA_E

LabSampleId :

SSTDIC0.1

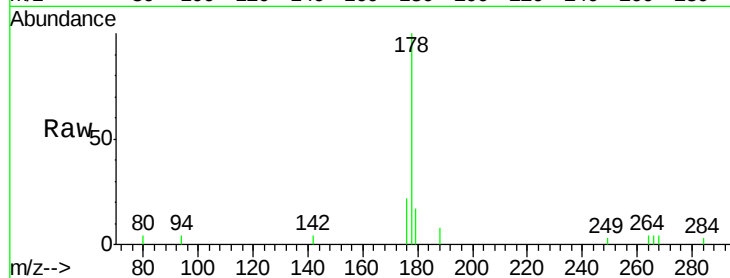
Tgt Ion:178 Resp: 1922

Ion Ratio Lower Upper

178 100

176 20.0 15.1 22.7

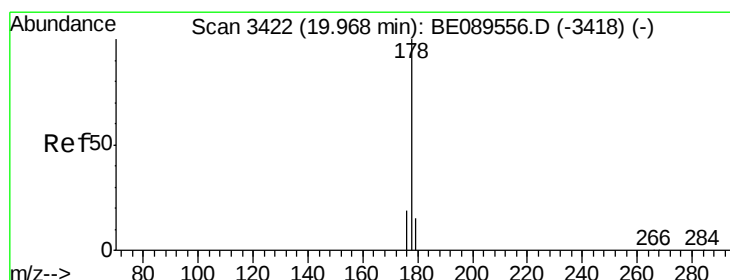
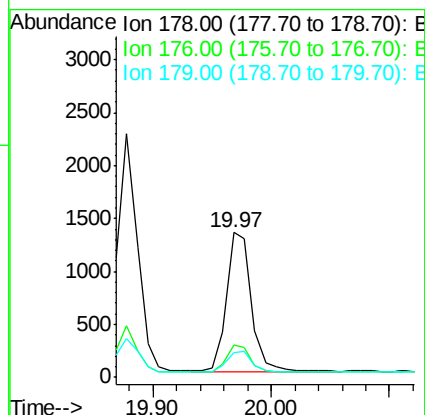
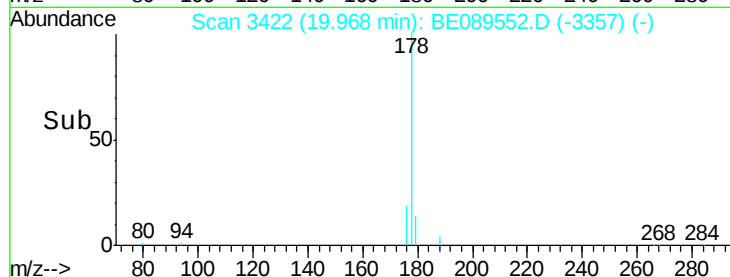
179 16.0 12.1 18.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#14

Anthracene

Concen: 0.09 ng

RT: 19.97 min Scan# 3422

Delta R.T. -0.00 min

Lab File: BE089552.D

Acq: 10 Feb 2015 16:17

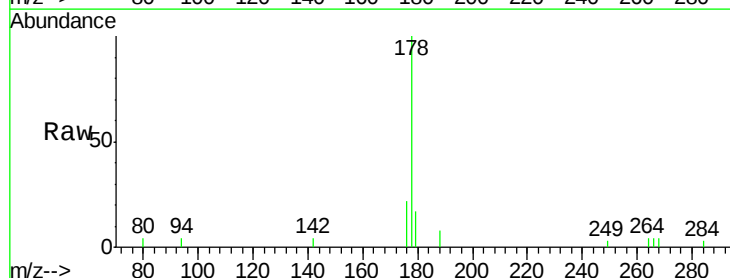
Tgt Ion:178 Resp: 1922

Ion Ratio Lower Upper

178 100

176 20.0 14.6 21.8

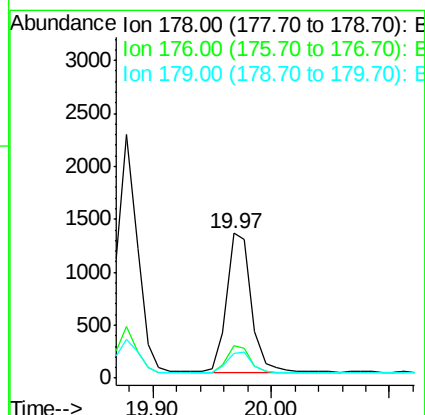
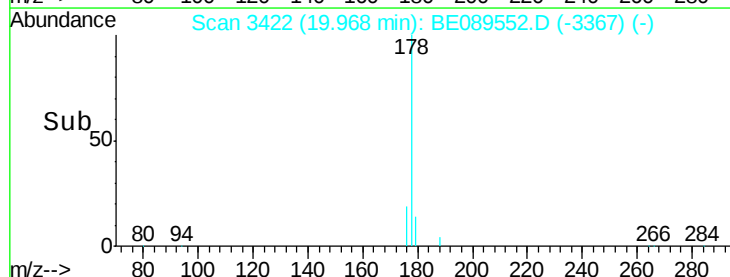
179 16.0 12.7 19.1

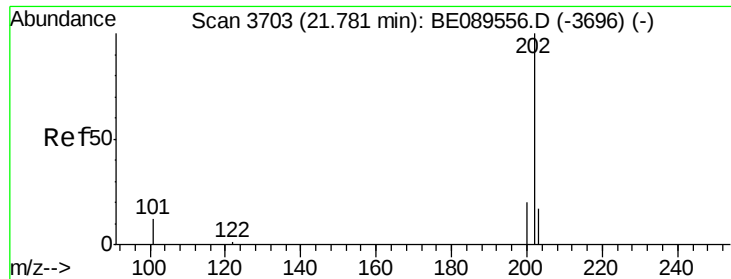


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

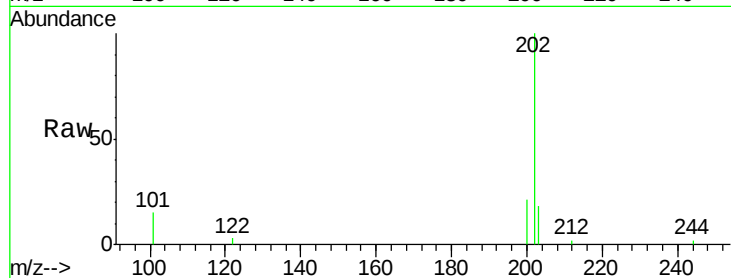




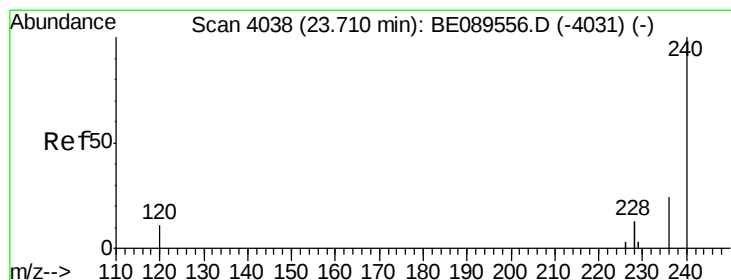
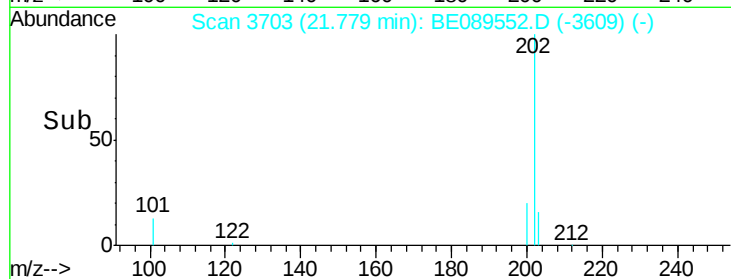
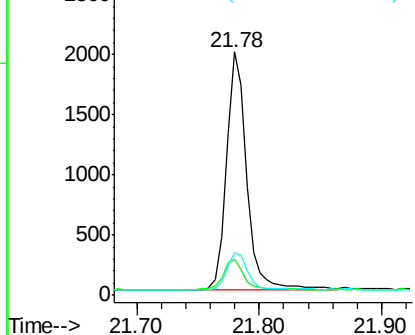
#15
 Fluoranthene
 Concen: 0.10 ng
 RT: 21.78 min Scan# 3703
 Delta R.T. -0.00 min
 Lab File: BE089552.D
 Acq: 10 Feb 2015 16:17

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC0.1

Tgt Ion: 202 Resp: 2292
 Ion Ratio Lower Upper
 202 100
 101 12.9 10.4 15.6
 203 16.5 13.6 20.4

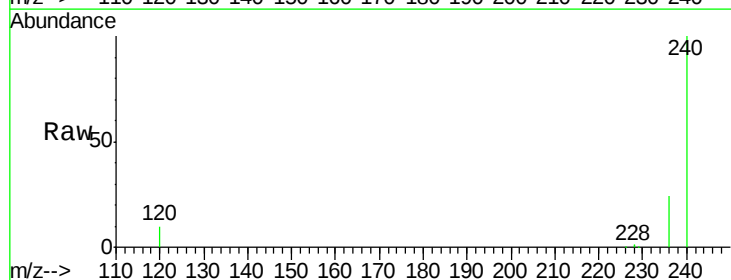


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

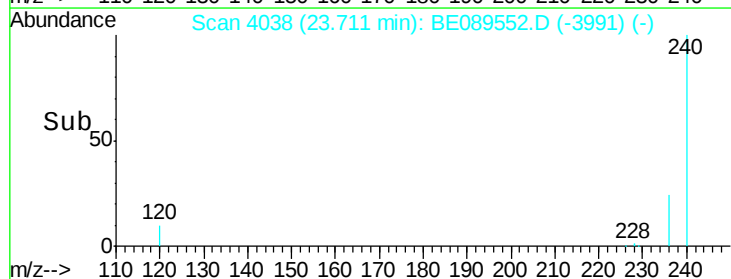
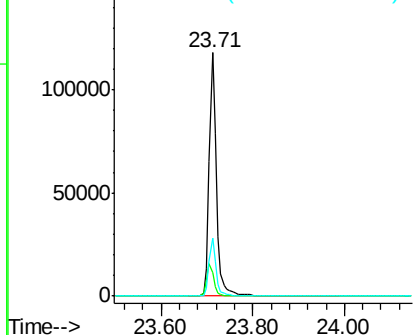


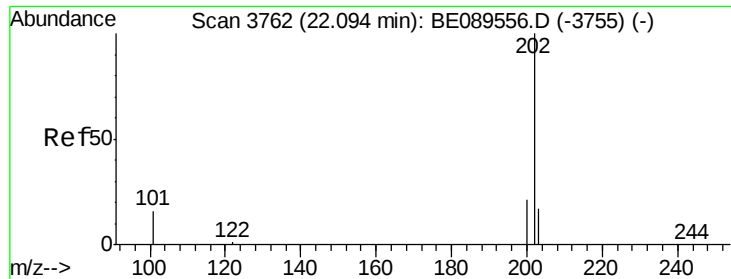
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.71 min Scan# 4038
 Delta R.T. 0.00 min
 Lab File: BE089552.D
 Acq: 10 Feb 2015 16:17

Tgt Ion: 240 Resp: 129591
 Ion Ratio Lower Upper
 240 100
 120 9.8 9.3 13.9
 236 23.8 19.3 28.9



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

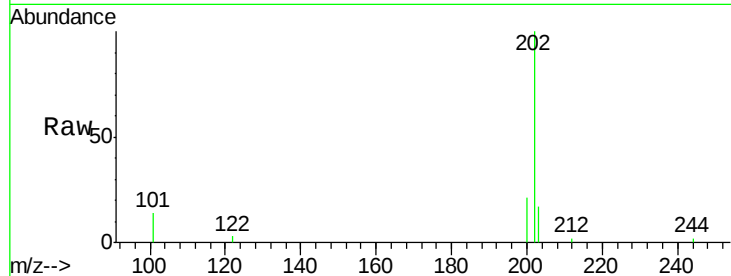




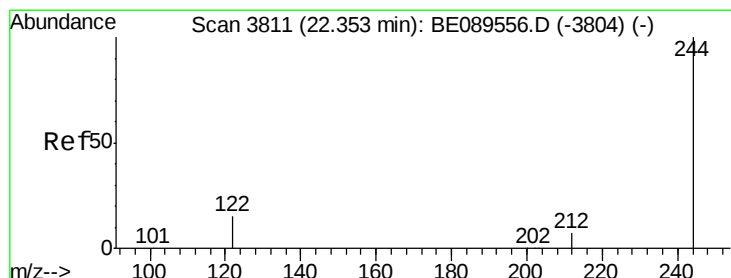
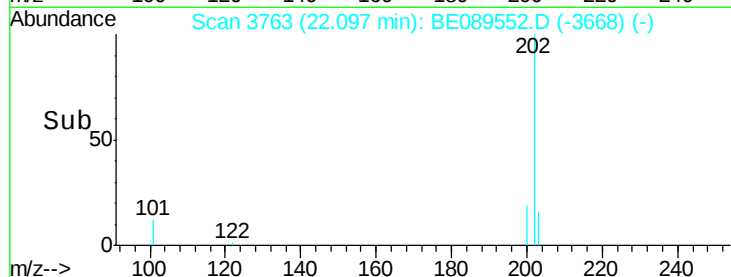
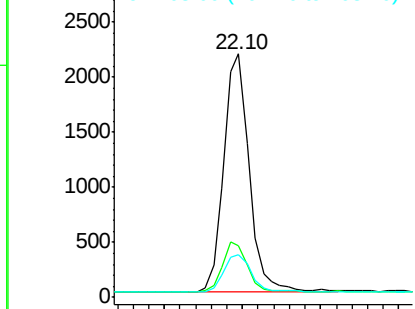
#17
 Pyrene
 Concen: 0.09 ng
 RT: 22.10 min Scan# 3763
 Delta R.T. 0.00 min
 Lab File: BE089552.D
 Acq: 10 Feb 2015 16:17

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC0.1

Tgt Ion: 202 Resp: 2456
 Ion Ratio Lower Upper
 202 100
 200 20.8 16.6 24.8
 203 17.5 14.2 21.2

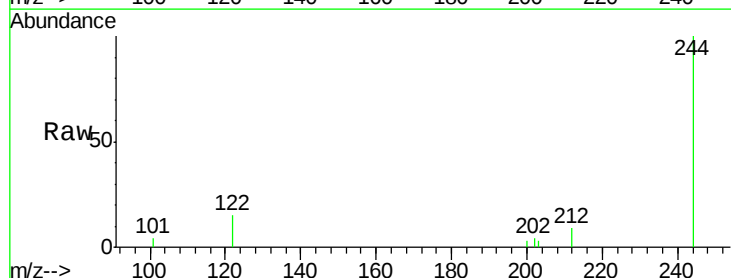


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E

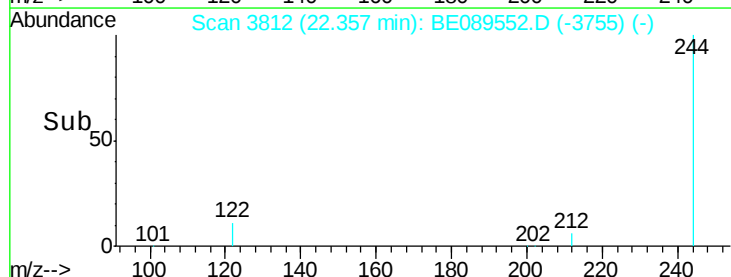
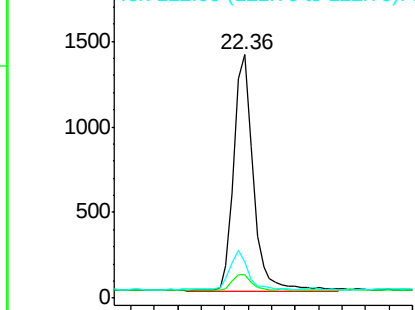


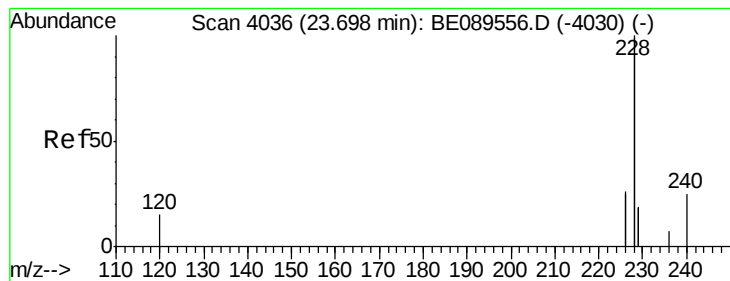
#18
 Terphenyl-d14
 Concen: 0.09 ng
 RT: 22.36 min Scan# 3812
 Delta R.T. 0.00 min
 Lab File: BE089552.D
 Acq: 10 Feb 2015 16:17

Tgt Ion: 244 Resp: 1578
 Ion Ratio Lower Upper
 244 100
 212 9.5 5.9 8.9#
 122 14.8 12.2 18.2



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: 0.10 ng

RT: 23.70 min Scan# 4036

Delta R.T. 0.00 min

Lab File: BE089552.D

Acq: 10 Feb 2015 16:17

Instrument :

BNA_E

LabSampleId :

SSTDICC0.1

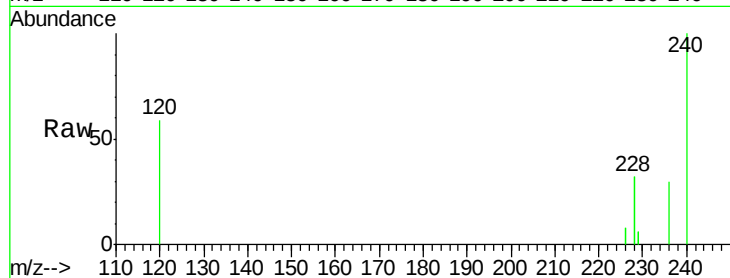
Tgt Ion:228 Resp: 10489

Ion Ratio Lower Upper

228 100

226 26.3 21.0 31.4

229 20.4 15.2 22.8

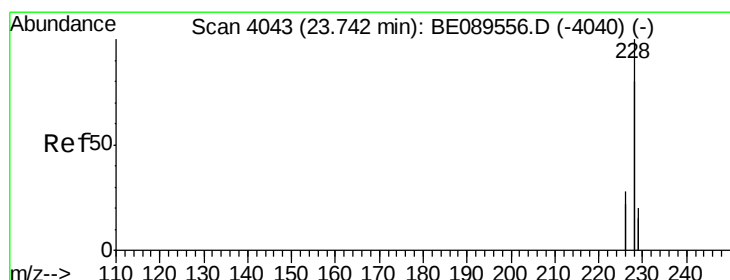
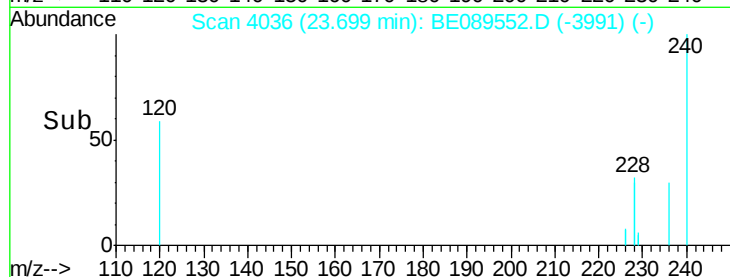
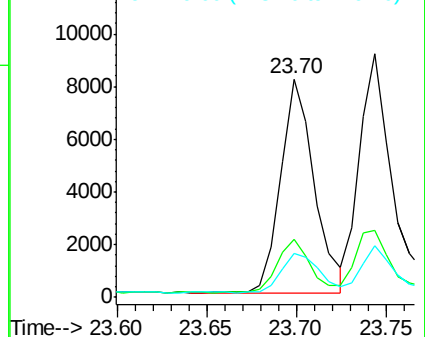


Abundance

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: 0.11 ng

RT: 23.74 min Scan# 4043

Delta R.T. 0.00 min

Lab File: BE089552.D

Acq: 10 Feb 2015 16:17

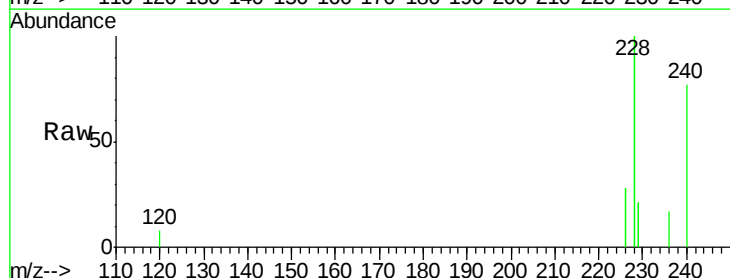
Tgt Ion:228 Resp: 12301

Ion Ratio Lower Upper

228 100

226 27.5 22.6 34.0

229 21.0 15.6 23.4

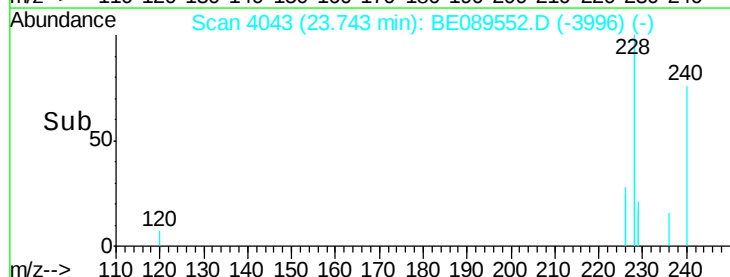
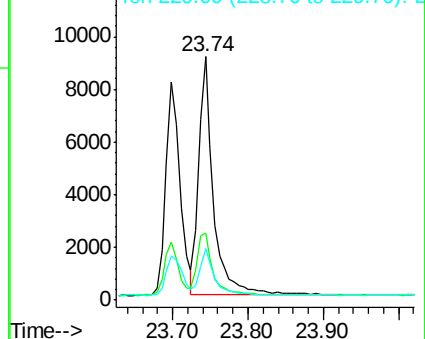


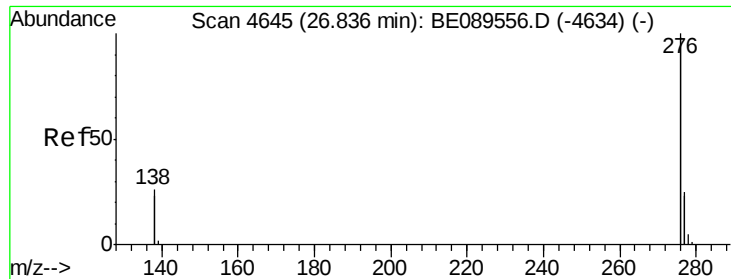
Abundance

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: 0.08 ng

RT: 26.83 min Scan# 4644

Delta R.T. -0.01 min

Lab File: BE089552.D

Acq: 10 Feb 2015 16:17

Instrument :

BNA_E

LabSampleId :

SSTDIC0.1

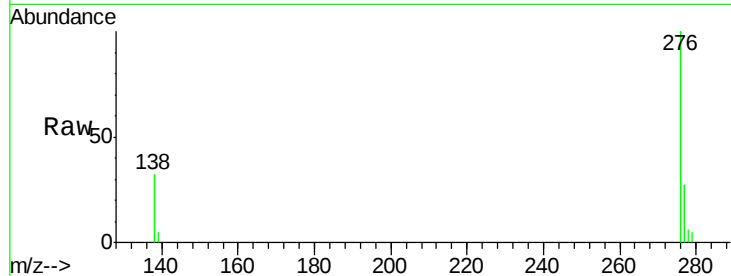
Tgt Ion:276 Resp: 7833

Ion Ratio Lower Upper

276 100

138 13.8 20.2 30.4#

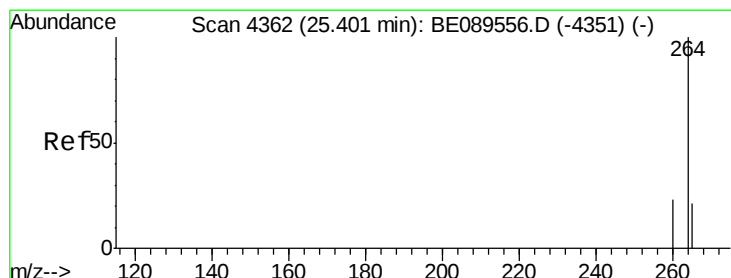
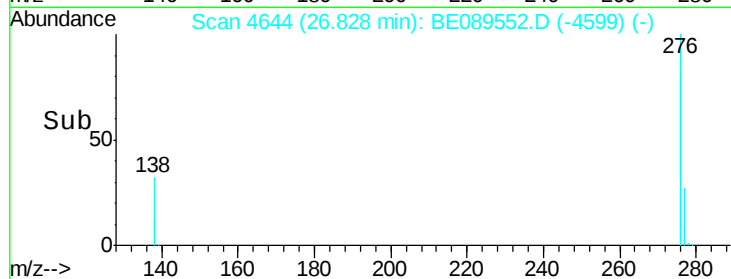
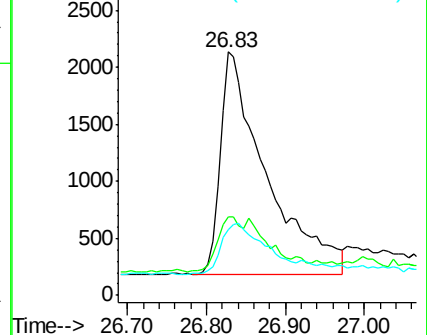
277 22.0 19.6 29.4



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: 25.40 min Scan# 4362

Delta R.T. 0.00 min

Lab File: BE089552.D

Acq: 10 Feb 2015 16:17

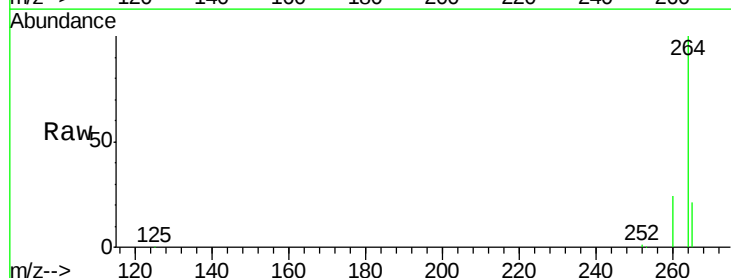
Tgt Ion:264 Resp: 130755

Ion Ratio Lower Upper

264 100

260 24.1 18.7 28.1

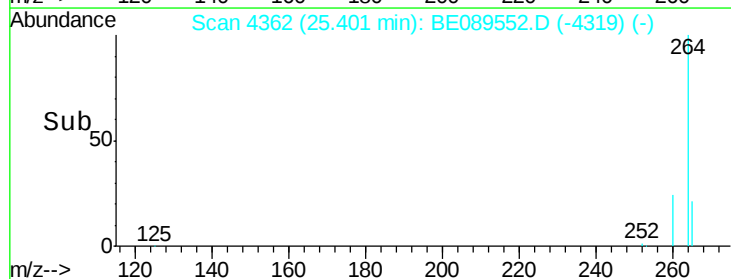
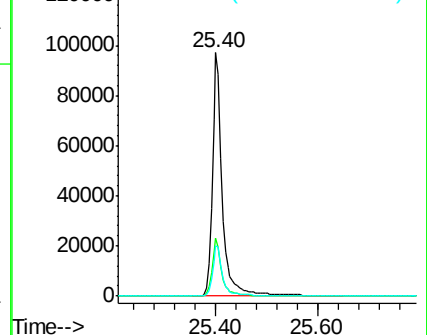
265 20.8 16.8 25.2

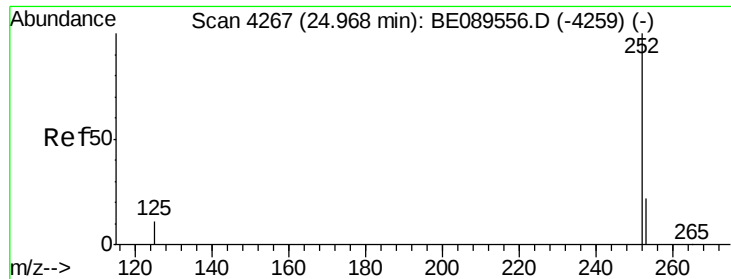


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.08 ng

RT: 24.96 min Scan# 4266

Delta R.T. -0.00 min

Lab File: BE089552.D

Acq: 10 Feb 2015 16:17

Instrument :

BNA_E

LabSampleId :

SSTDIC0.1

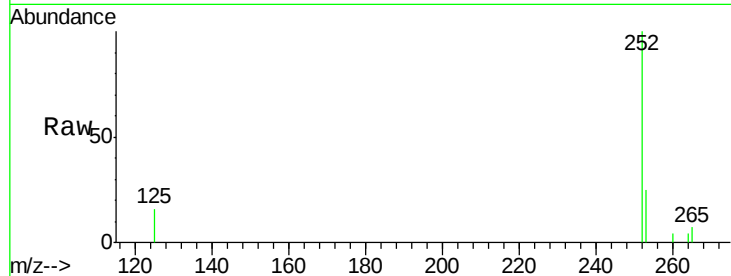
Tgt Ion:252 Resp: 1594

Ion Ratio Lower Upper

252 100

253 24.9 17.8 26.8

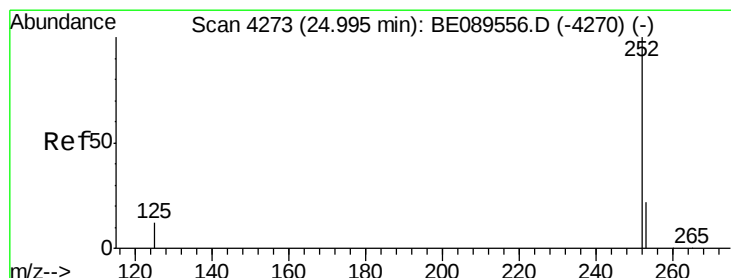
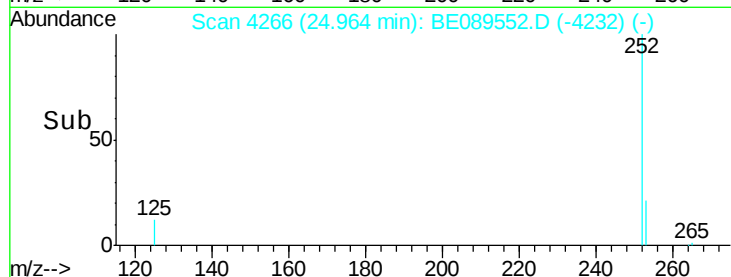
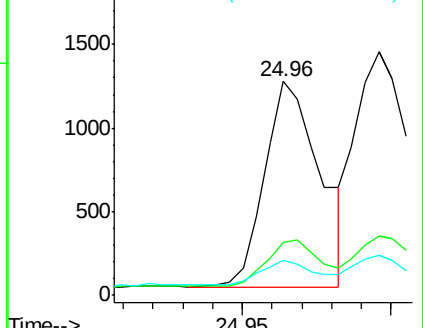
125 16.1 9.3 13.9#



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: 0.08 ng

RT: 25.00 min Scan# 4273

Delta R.T. 0.00 min

Lab File: BE089552.D

Acq: 10 Feb 2015 16:17

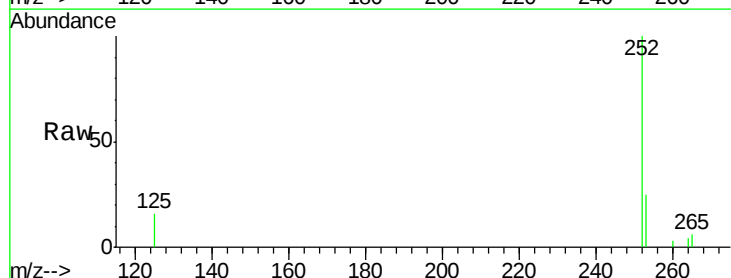
Tgt Ion:252 Resp: 2428

Ion Ratio Lower Upper

252 100

253 24.5 17.5 26.3

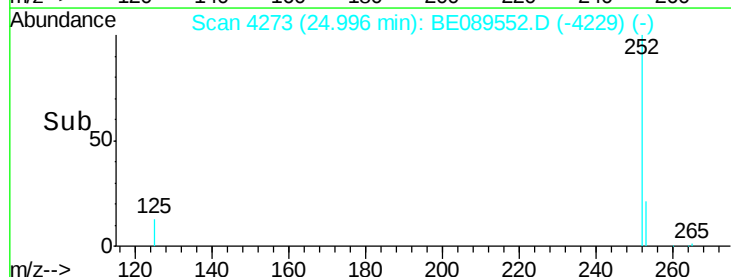
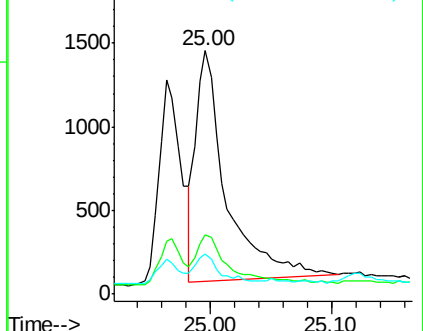
125 16.5 9.6 14.4#

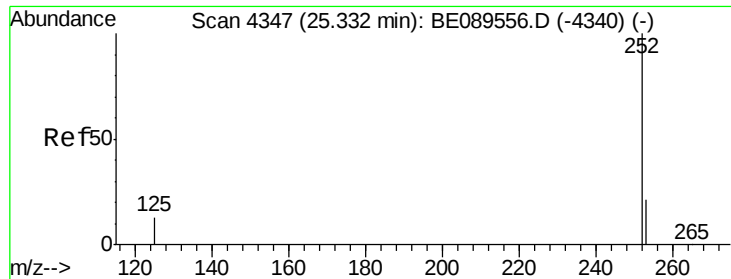


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 0.08 ng

RT: 25.33 min Scan# 4347

Delta R.T. 0.00 min

Lab File: BE089552.D

Acq: 10 Feb 2015 16:17

Instrument :

BNA_E

LabSampleId :

SSTDIC0.1

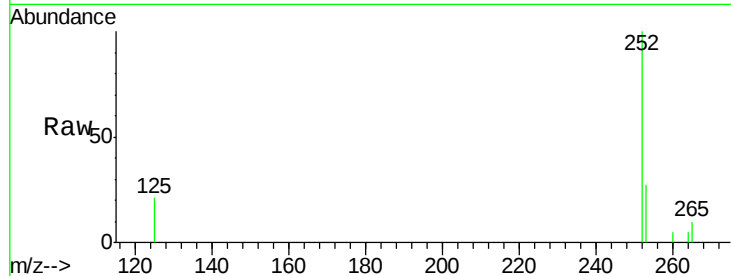
Tgt Ion:252 Resp: 1502

Ion Ratio Lower Upper

252 100

253 27.3 17.4 26.0#

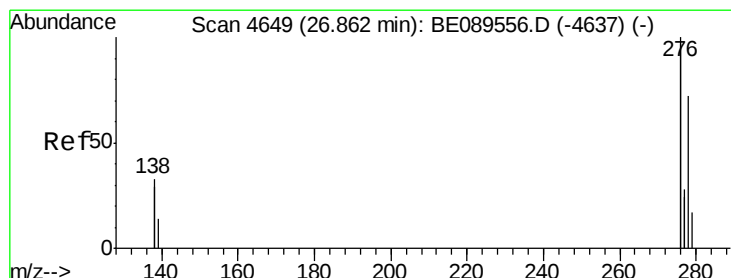
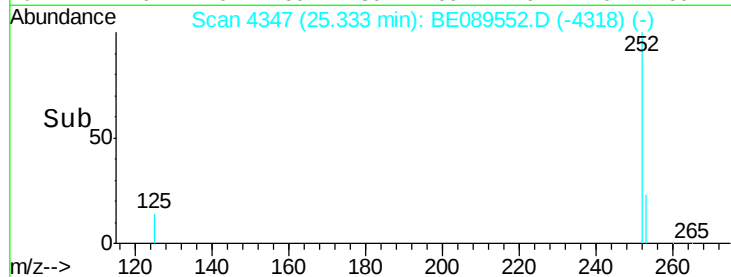
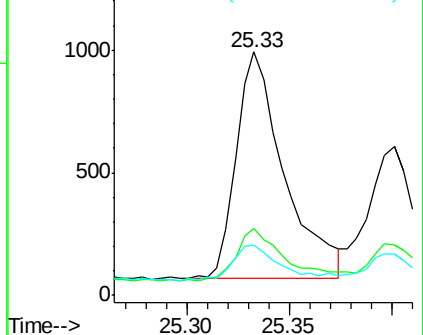
125 20.7 11.1 16.7#



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: 0.08 ng

RT: 26.86 min Scan# 4649

Delta R.T. -0.00 min

Lab File: BE089552.D

Acq: 10 Feb 2015 16:17

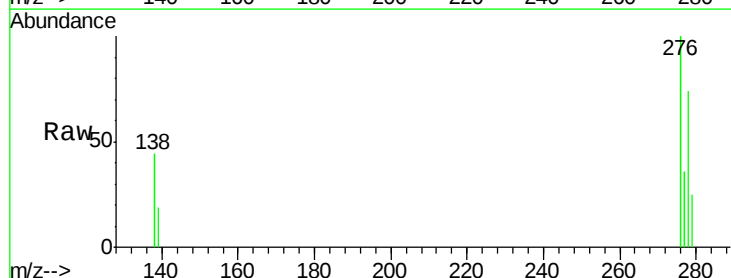
Tgt Ion:278 Resp: 1544

Ion Ratio Lower Upper

278 100

139 26.2 16.1 24.1#

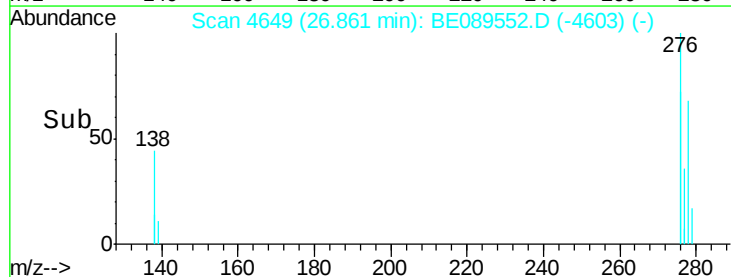
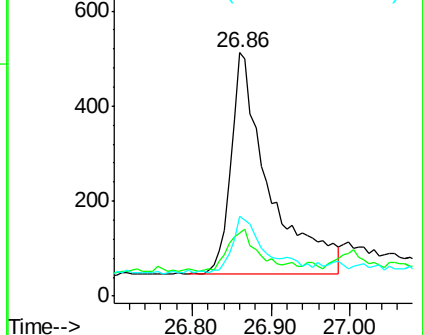
279 33.0 19.6 29.4#

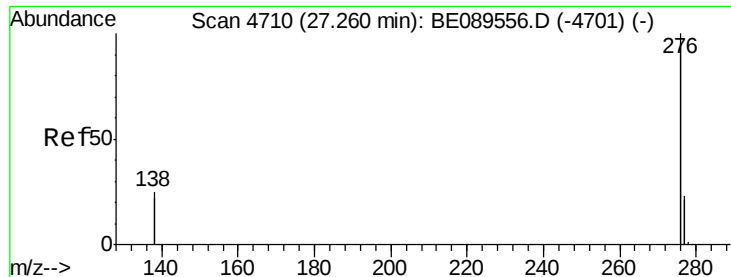


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.09 ng
 RT: 27.26 min Scan# 4710
 Delta R.T. -0.00 min
 Lab File: BE089552.D
 Acq: 10 Feb 2015 16:17

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC0.1

Tgt Ion: 276 Resp: 8048
 Ion Ratio Lower Upper
 276 100
 277 28.2 18.7 28.1#
 138 30.8 19.7 29.5#

