

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089452.D
 Acq On : 31 Jan 2015 00:32
 Operator : TP/IZ
 Sample : G1116-01
 Misc : 4 TIME INT STD
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SUMP

Quant Time: Feb 02 00:58:08 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	9.59	152	248981	5.00	ng	0.00
2) Naphthalene-d8	12.50	136	973244	5.00	ng	0.00
6) Acenaphthene-d10	16.70	164	409313	5.00	ng	0.00
11) Phenanthrene-d10	19.99	188	711323	5.00	ng	0.00
16) Chrysene-d12	23.84	240	615357	5.00	ng	0.00
22) Perylene-d12	25.55	264	587241	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.87	82	1732109	26.88	ng	0.02
7) 2-Fluorobiphenyl	15.14	172	2300986	21.34	ng	0.00
18) Terphenyl-d14	22.49	244	1567332	17.01	ng	0.00

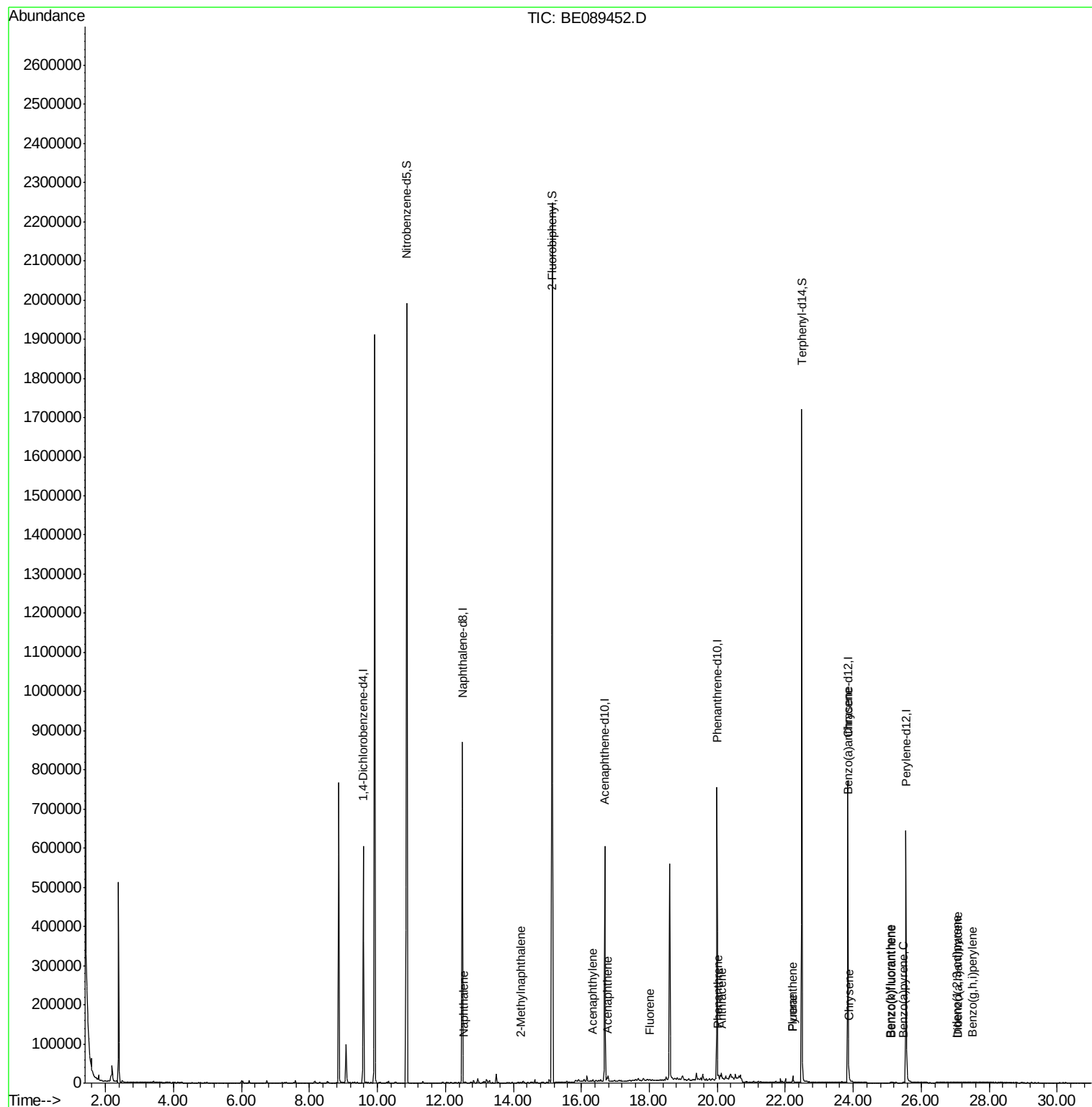
Target Compounds						Qvalue
4) Naphthalene	12.55	128	2002	0.01	ng	# 88
5) 2-Methylnaphthalene	14.21	142	1575	0.01	ng	# 93
8) Acenaphthylene	16.34	152	9262	0.01	ng	99
9) Acenaphthene	16.76	154	1600	0.01	ng	# 88
10) Fluorene	18.02	166	1817	0.01	ng	99
12) Pentachlorophenol	19.66	266	758	Below Cal		98
13) Phenanthrene	20.03	178	16319	0.02	ng	# 91
14) Anthracene	20.12	178	17515	0.03	ng	# 68
15) Fluoranthene	22.23	202	11627	0.08	ng	96
17) Pyrene	22.23	202	11627	0.07	ng	99
19) Benzo(a)anthracene	23.83	228	14047	0.03	ng	# 88
20) Chrysene	23.87	228	8166	0.01	ng	# 87
21) Indeno(1,2,3-cd)pyrene	27.05	276	3699	0.01	ng	97
23) Benzo(b)fluoranthene	25.10	252	1050	0.20	ng	# 48
24) Benzo(k)fluoranthene	25.13	252	1466	0.01	ng	# 57
25) Benzo(a)pyrene	25.48	252	1047	0.13	ng	# 42
26) Dibenzo(a,h)anthracene	27.08	278	647	0.14	ng	# 27
27) Benzo(g,h,i)perylene	27.50	276	4693	0.01	ng	# 60

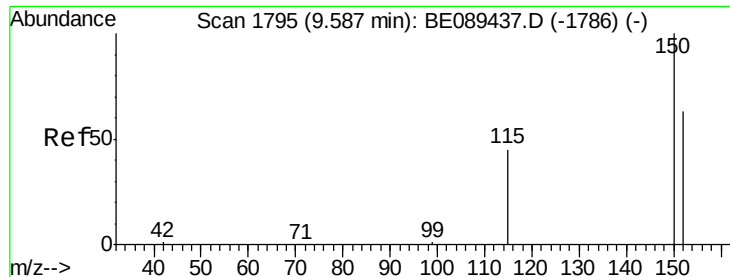
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.59 min Scan# 1795

Delta R.T. -0.00 min

Lab File: BE089452.D

Acq: 31 Jan 2015 00:32

Instrument :

BNA_E

ClientSampleId :

SUMP

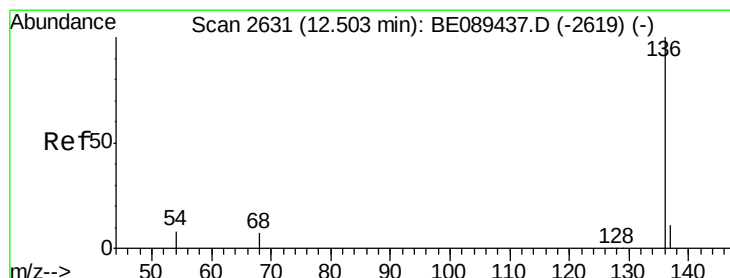
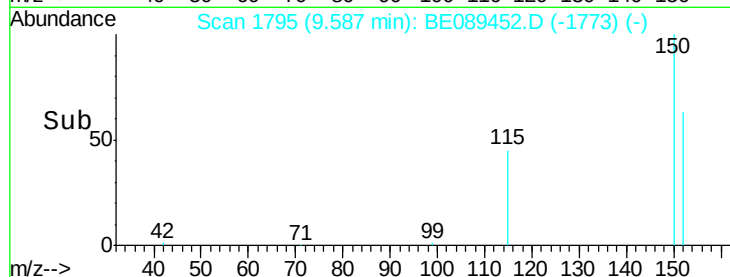
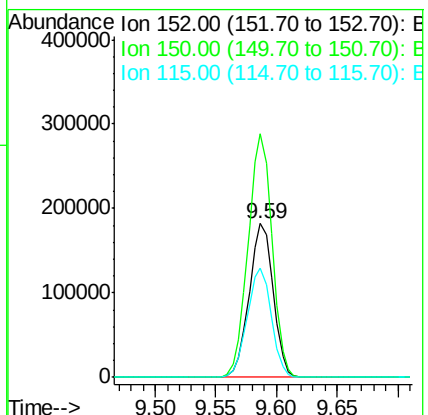
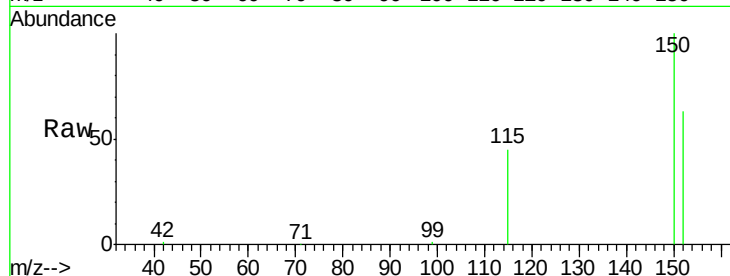
Tgt Ion:152 Resp: 248981

Ion Ratio Lower Upper

152 100

150 158.2 127.2 190.8

115 71.0 57.5 86.3



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.50 min Scan# 2630

Delta R.T. -0.00 min

Lab File: BE089452.D

Acq: 31 Jan 2015 00:32

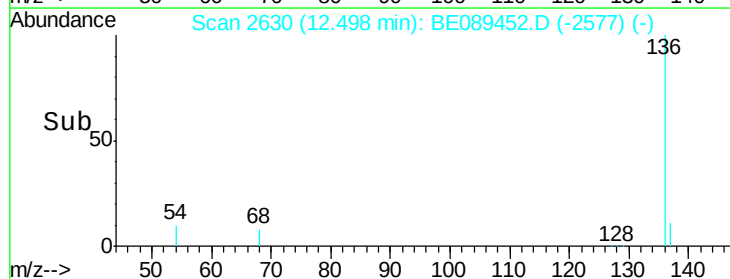
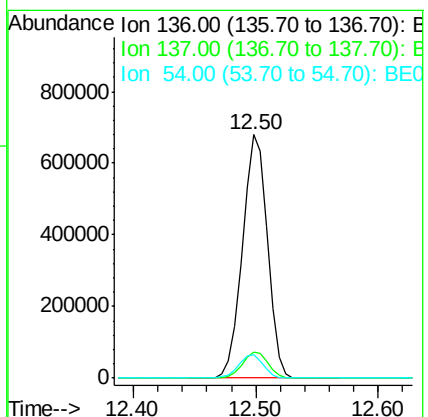
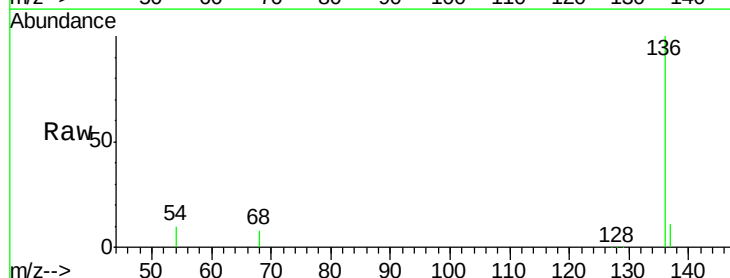
Tgt Ion:136 Resp: 973244

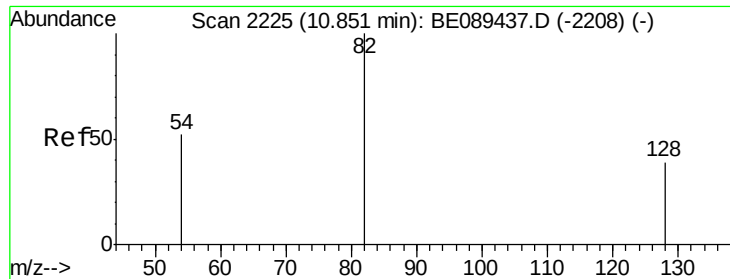
Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

54 9.5 6.6 10.0





#3

Nitrobenzene-d5

Concen: 26.88 ng

RT: 10.87 min Scan# 2232

Delta R.T. 0.02 min

Lab File: BE089452.D

Acq: 31 Jan 2015 00:32

Instrument :

BNA_E

ClientSampled :

SUMP

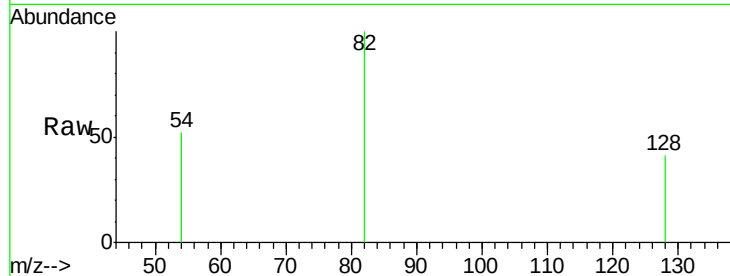
Tgt Ion: 82 Resp: 1732109

Ion Ratio Lower Upper

82 100

128 40.5 31.2 46.8

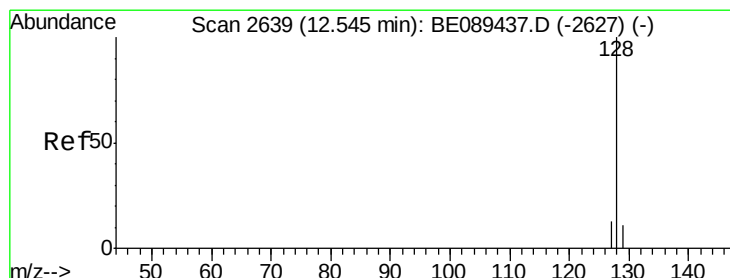
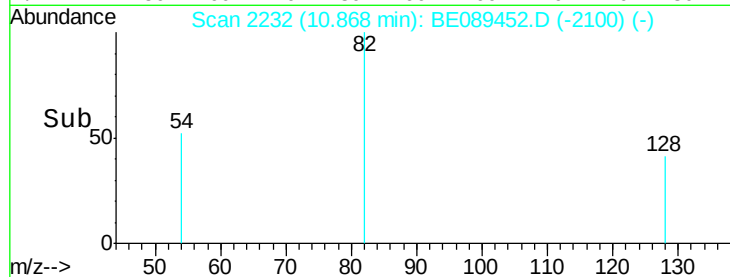
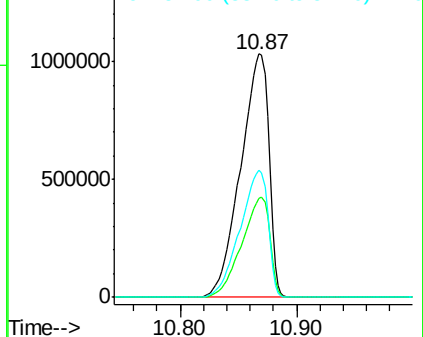
54 52.4 41.9 62.9



Abundance Ion 82.00 (81.70 to 82.70): BE089437.D (-2208) (-)

Ion 128.00 (127.70 to 128.70): BE089437.D (-2208) (-)

Ion 54.00 (53.70 to 54.70): BE089437.D (-2208) (-)



#4

Naphthalene

Concen: 0.01 ng

RT: 12.55 min Scan# 2639

Delta R.T. 0.00 min

Lab File: BE089452.D

Acq: 31 Jan 2015 00:32

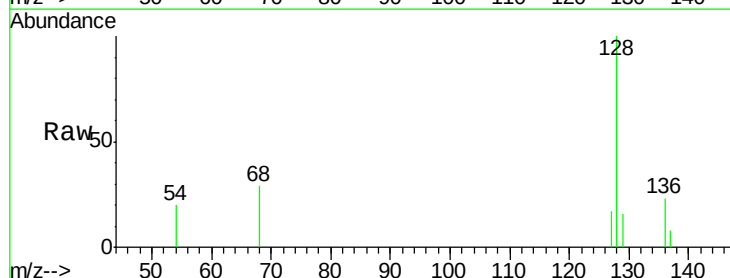
Tgt Ion: 128 Resp: 2002

Ion Ratio Lower Upper

128 100

129 16.3 8.8 13.2#

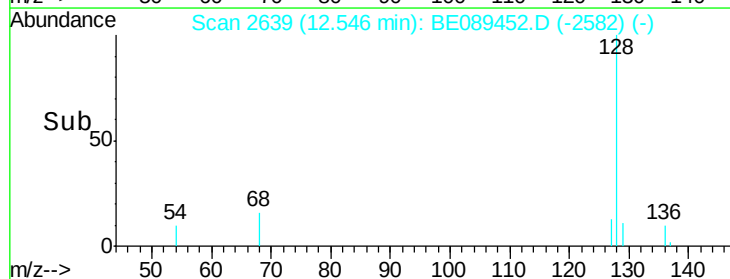
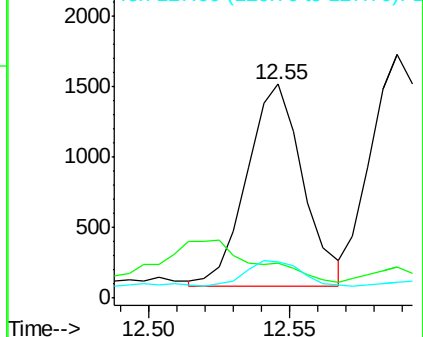
127 17.2 10.6 16.0#

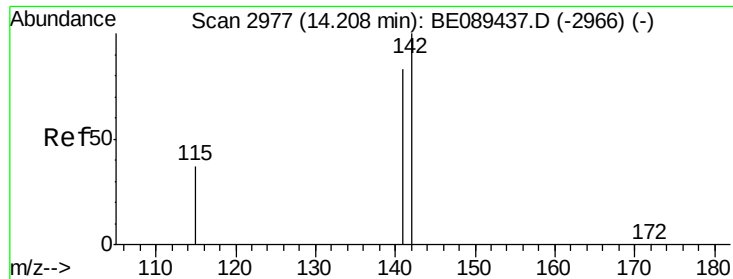


Abundance Ion 128.00 (127.70 to 128.70): BE089437.D (-2627) (-)

Ion 129.00 (128.70 to 129.70): BE089437.D (-2627) (-)

Ion 127.00 (126.70 to 127.70): BE089437.D (-2627) (-)





#5

2-Methylnaphthalene

Concen: 0.01 ng

RT: 14.21 min Scan# 2977

Delta R.T. -0.00 min

Lab File: BE089452.D

Acq: 31 Jan 2015 00:32

Instrument :

BNA_E

ClientSampleId :

SUMP

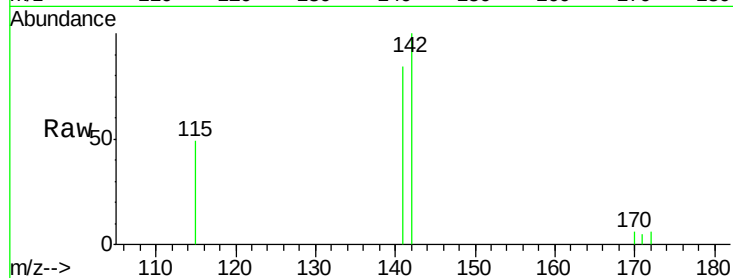
Tgt Ion:142 Resp: 1575

Ion Ratio Lower Upper

142 100

141 84.4 66.1 99.1

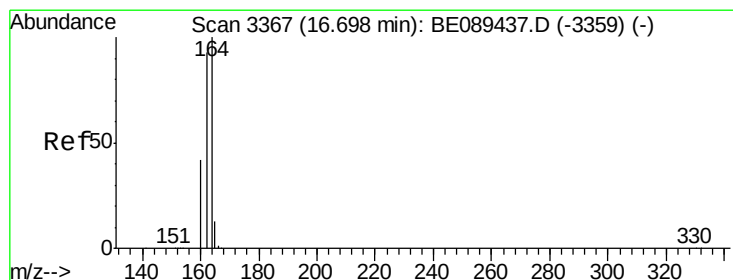
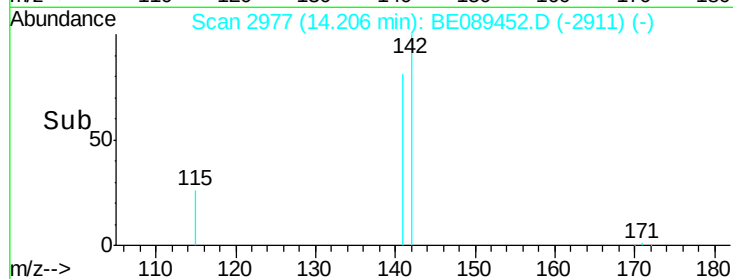
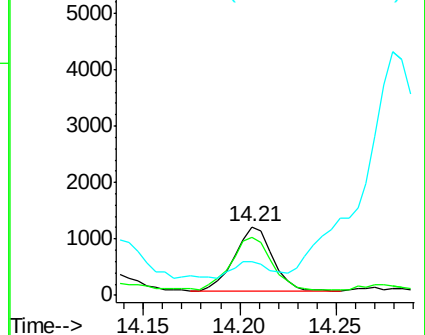
115 48.8 29.9 44.9#



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: 16.70 min Scan# 3367

Delta R.T. 0.00 min

Lab File: BE089452.D

Acq: 31 Jan 2015 00:32

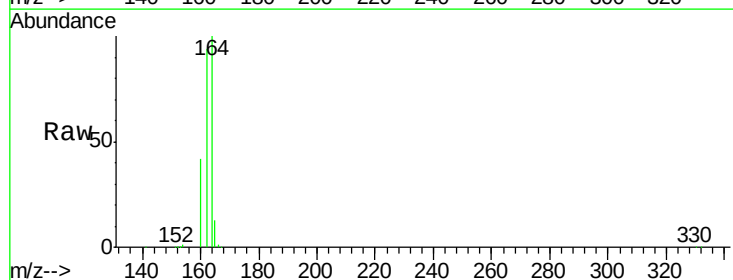
Tgt Ion:164 Resp: 409313

Ion Ratio Lower Upper

164 100

162 94.2 74.7 112.1

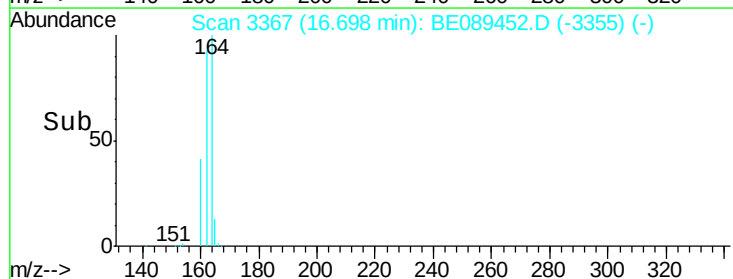
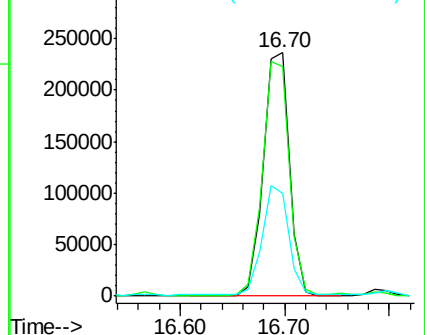
160 42.0 33.4 50.0

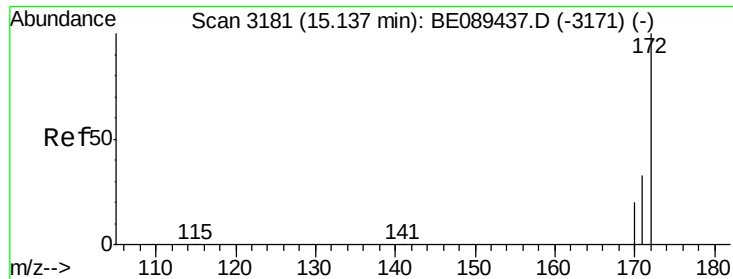


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 21.34 ng

RT: 15.14 min Scan# 3183

Delta R.T. 0.01 min

Lab File: BE089452.D

Acq: 31 Jan 2015 00:32

Instrument :

BNA_E

ClientSampleId :

SUMP

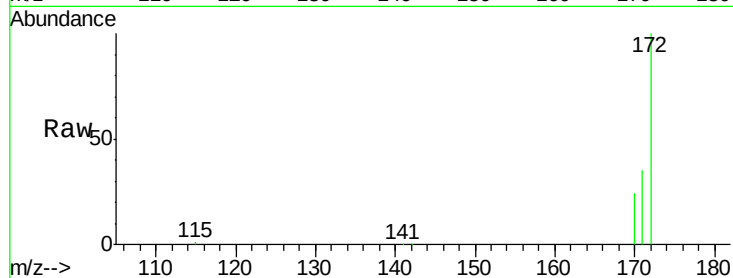
Tgt Ion:172 Resp: 2300986

Ion Ratio Lower Upper

172 100

171 35.4 26.2 39.4

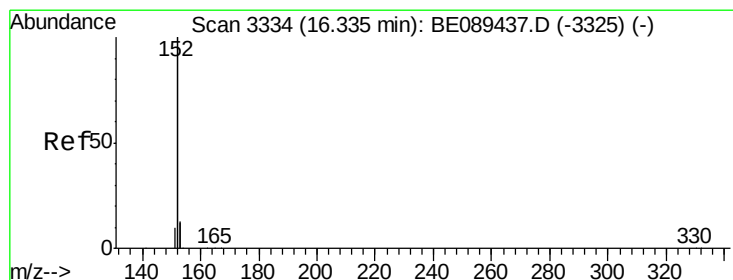
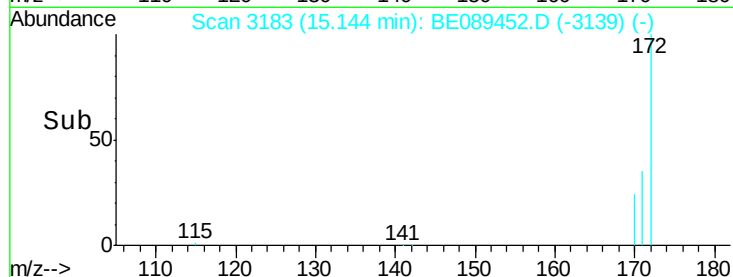
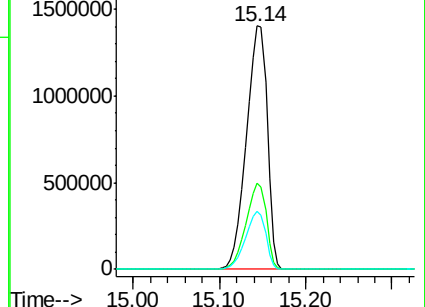
170 23.8 16.5 24.7



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: 0.01 ng

RT: 16.34 min Scan# 3334

Delta R.T. 0.00 min

Lab File: BE089452.D

Acq: 31 Jan 2015 00:32

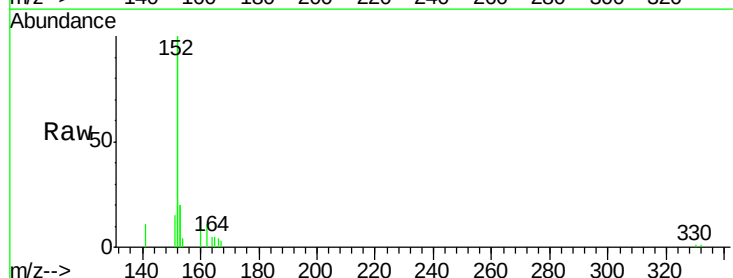
Tgt Ion:152 Resp: 9262

Ion Ratio Lower Upper

152 100

151 5.1 3.9 5.9

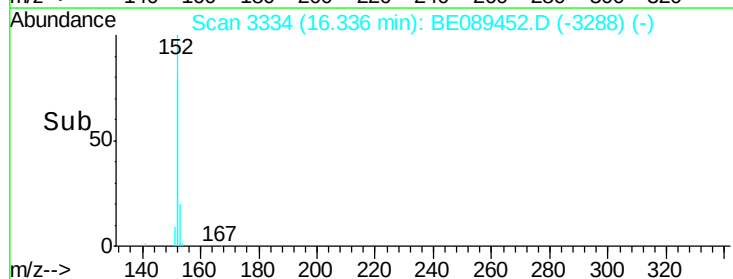
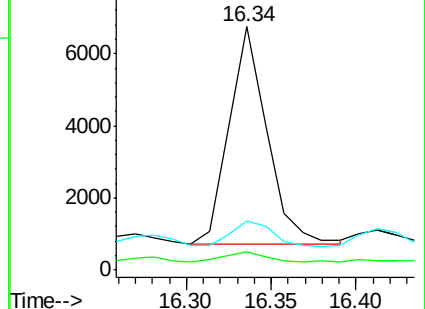
153 12.4 10.3 15.5

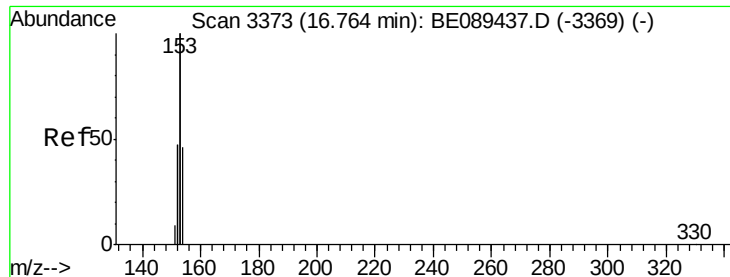


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.01 ng

RT: 16.76 min Scan# 3373

Delta R.T. 0.00 min

Lab File: BE089452.D

Acq: 31 Jan 2015 00:32

Instrument :

BNA_E

ClientSampleId :

SUMP

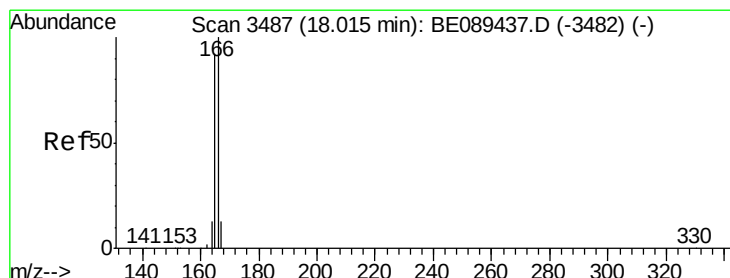
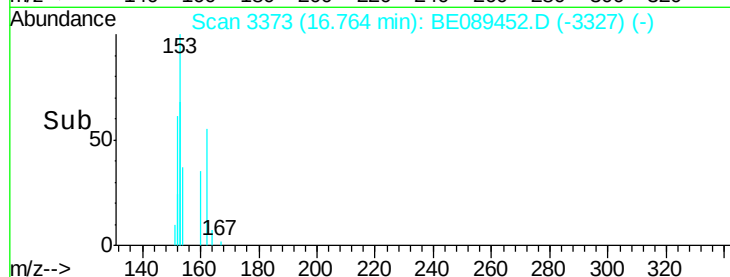
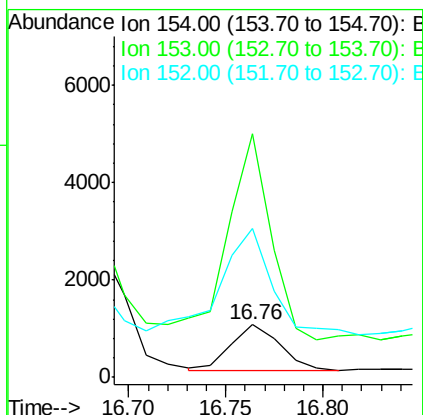
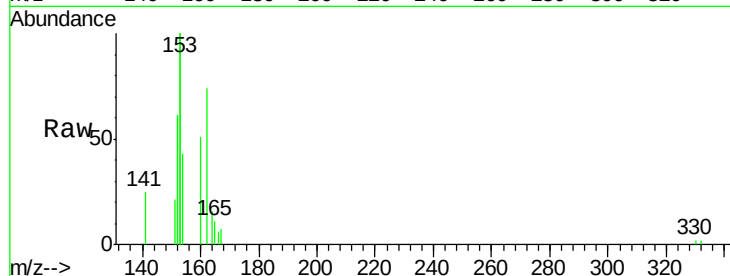
Tgt Ion:154 Resp: 1600

Ion Ratio Lower Upper

154 100

153 422.9 342.3 513.5

152 256.7 165.5 248.3#



#10

Fluorene

Concen: 0.01 ng

RT: 18.02 min Scan# 3487

Delta R.T. 0.00 min

Lab File: BE089452.D

Acq: 31 Jan 2015 00:32

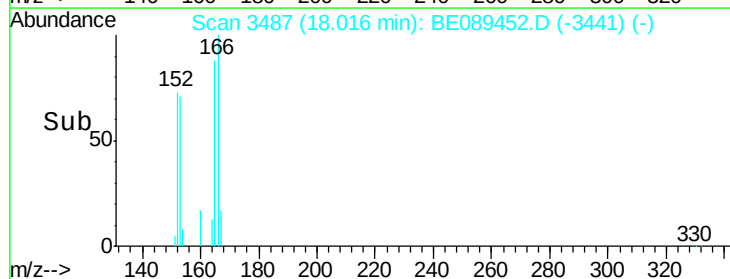
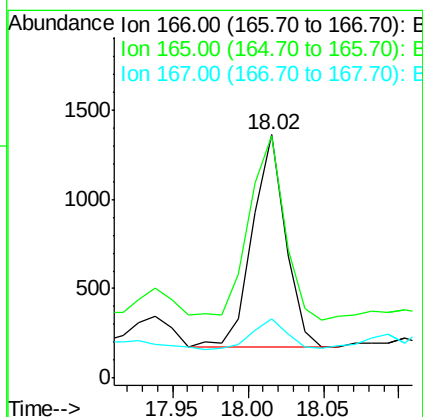
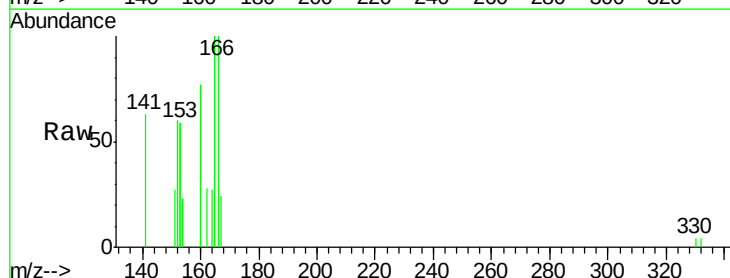
Tgt Ion:166 Resp: 1817

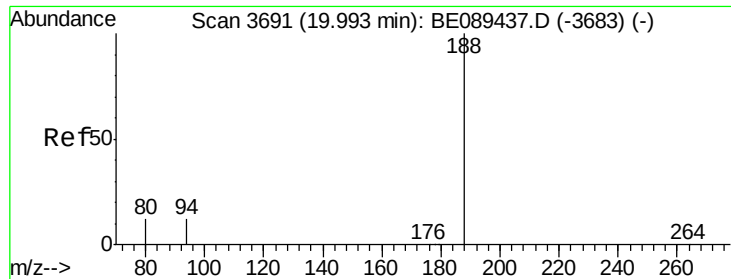
Ion Ratio Lower Upper

166 100

165 93.8 74.4 111.6

167 14.9 10.6 15.8

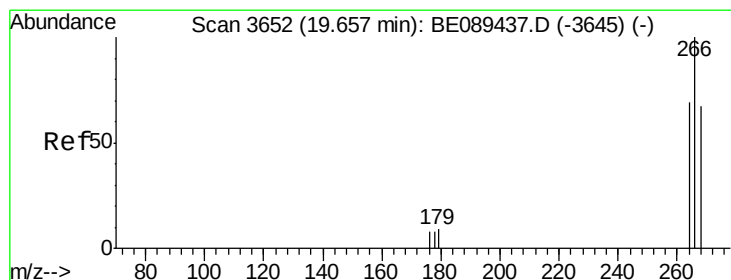
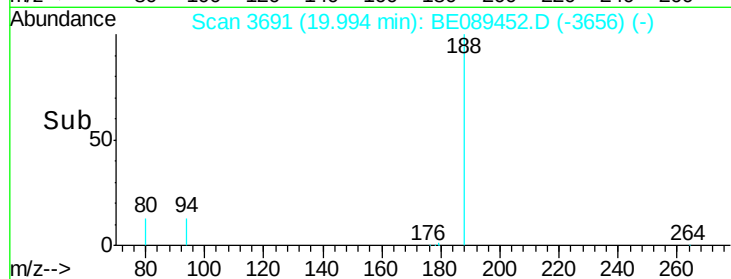
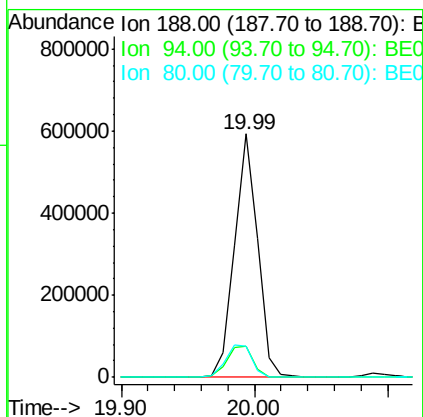
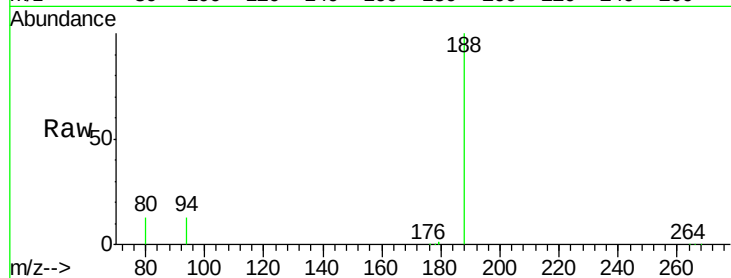




#11
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 19.99 min Scan# 3691
 Delta R.T. 0.00 min
 Lab File: BE089452.D
 Acq: 31 Jan 2015 00:32

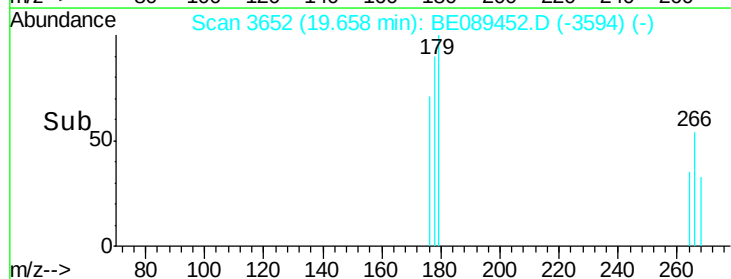
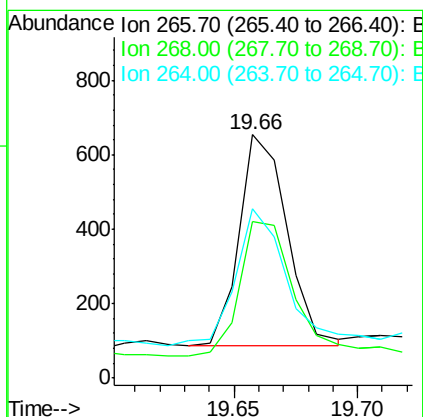
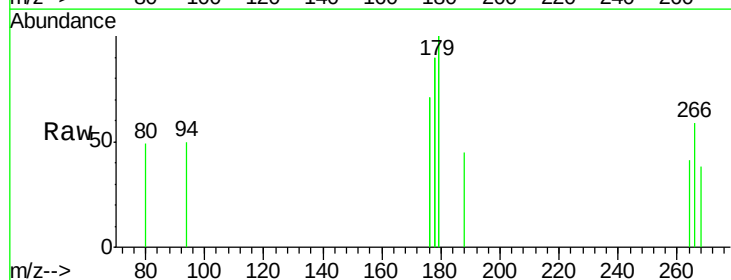
Instrument :
 BNA_E
 ClientSampleId :
 SUMP

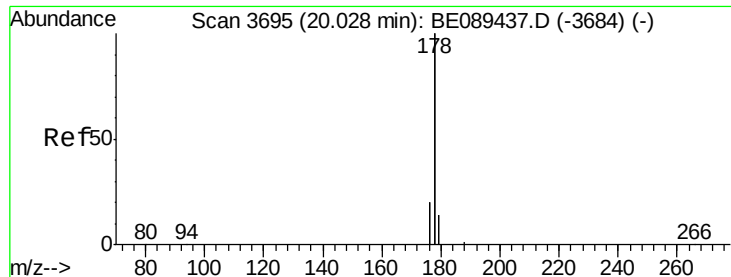
Tgt Ion:188 Resp: 711323
 Ion Ratio Lower Upper
 188 100
 94 12.7 9.4 14.0
 80 12.7 9.3 13.9



#12
 Pentachlorophenol
 Concen: Below Cal
 RT: 19.66 min Scan# 3652
 Delta R.T. 0.00 min
 Lab File: BE089452.D
 Acq: 31 Jan 2015 00:32

Tgt Ion:266 Resp: 758
 Ion Ratio Lower Upper
 266 100
 268 64.5 54.2 81.4
 264 69.4 56.2 84.2





#13

Phenanthrene

Concen: 0.02 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089452.D

Acq: 31 Jan 2015 00:32

Instrument :

BNA_E

ClientSampleId :

SUMP

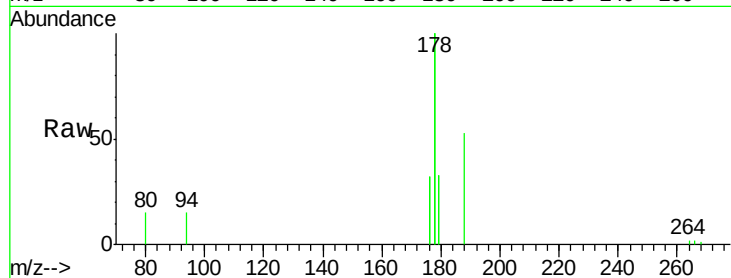
Tgt Ion:178 Resp: 16319

Ion Ratio Lower Upper

178 100

176 17.8 15.1 22.7

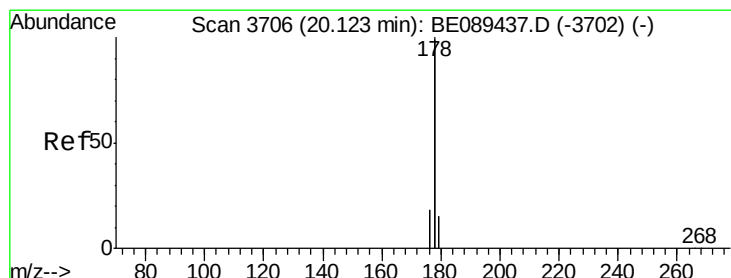
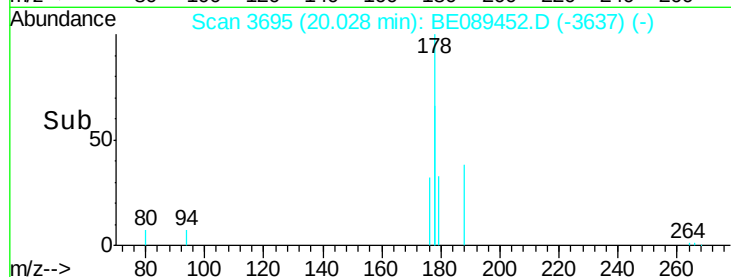
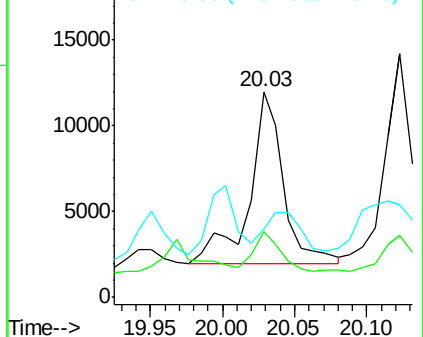
179 22.5 12.3 18.5#



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: 0.03 ng

RT: 20.12 min Scan# 3706

Delta R.T. 0.00 min

Lab File: BE089452.D

Acq: 31 Jan 2015 00:32

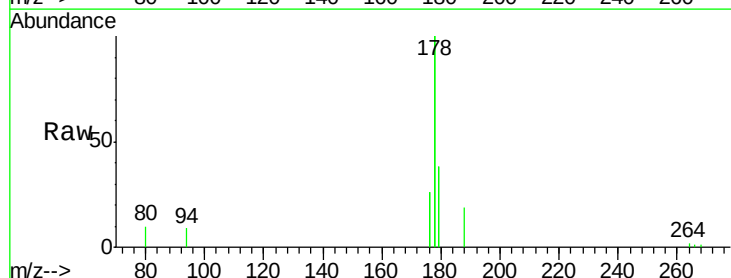
Tgt Ion:178 Resp: 17515

Ion Ratio Lower Upper

178 100

176 17.4 14.6 22.0

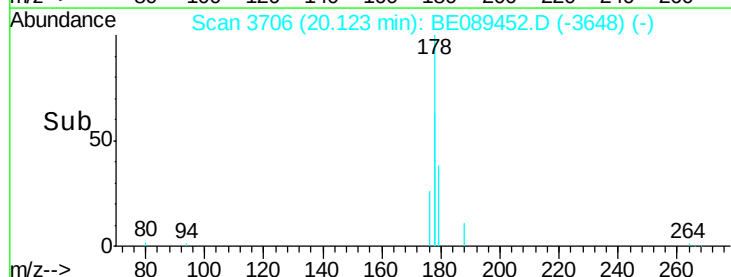
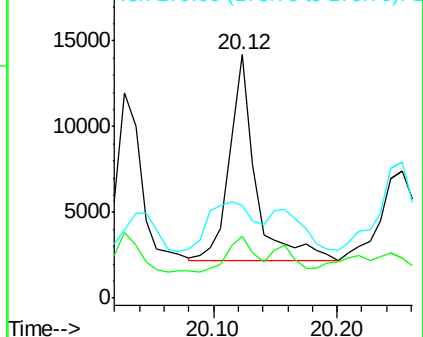
179 43.2 12.2 18.2#

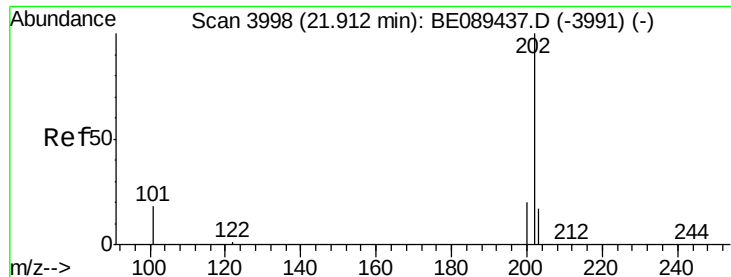


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

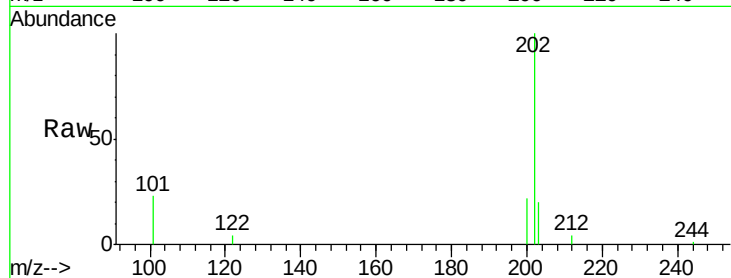




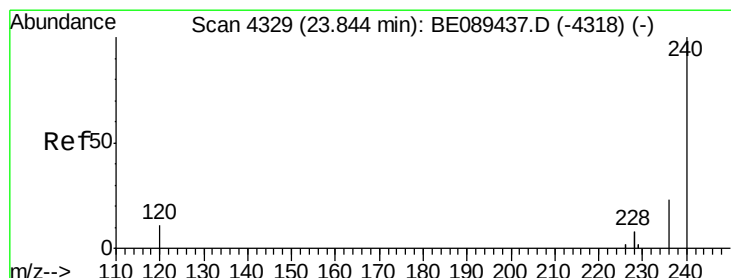
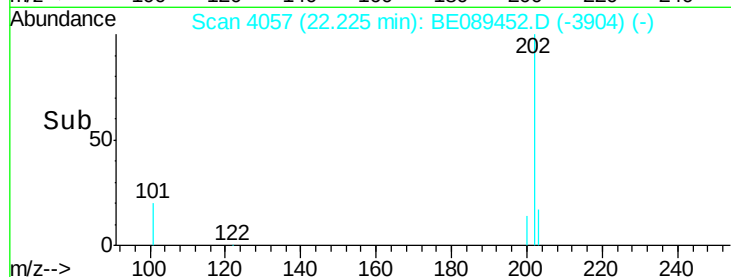
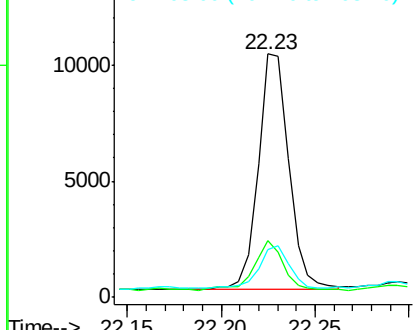
#15
 Fluoranthene
 Concen: 0.08 ng
 RT: 22.23 min Scan# 4057
 Delta R.T. 0.31 min
 Lab File: BE089452.D
 Acq: 31 Jan 2015 00:32

Instrument :
 BNA_E
 ClientSampleId :
 SUMP

Tgt Ion: 202 Resp: 11627
 Ion Ratio Lower Upper
 202 100
 101 20.0 13.6 20.4
 203 18.0 13.8 20.6

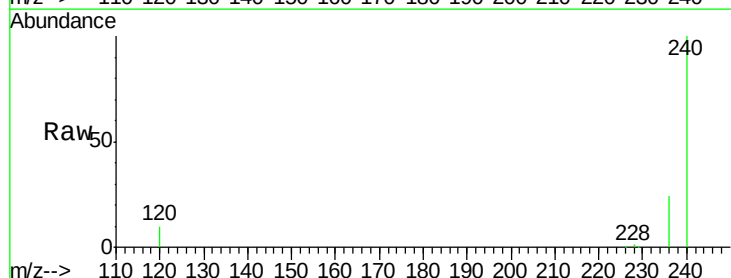


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

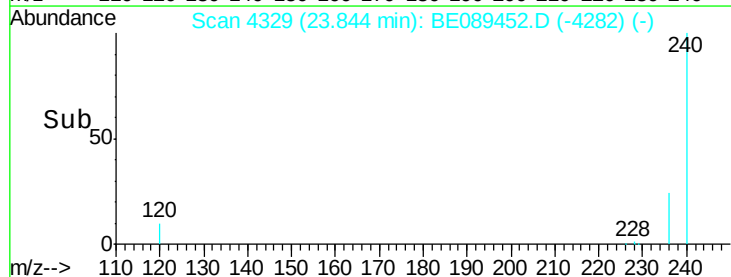
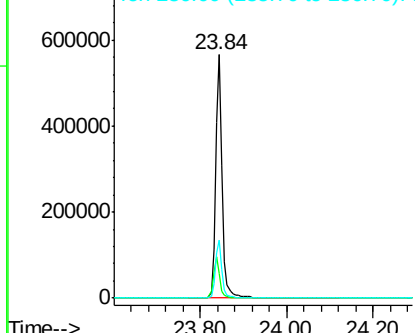


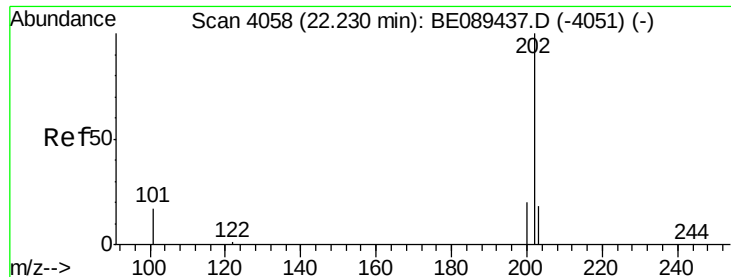
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.84 min Scan# 4329
 Delta R.T. -0.00 min
 Lab File: BE089452.D
 Acq: 31 Jan 2015 00:32

Tgt Ion: 240 Resp: 615357
 Ion Ratio Lower Upper
 240 100
 120 10.4 8.6 13.0
 236 23.6 18.7 28.1



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: 0.07 ng

RT: 22.23 min Scan# 4057

Delta R.T. -0.00 min

Lab File: BE089452.D

Acq: 31 Jan 2015 00:32

Instrument :

BNA_E

ClientSampleId :

SUMP

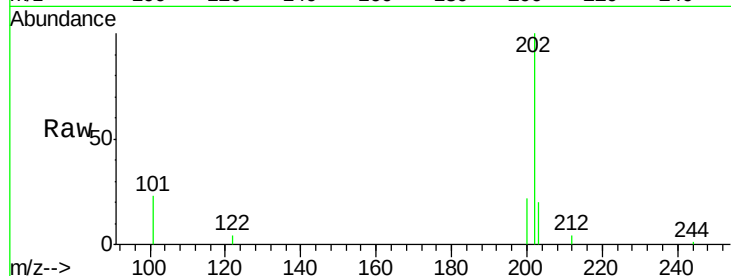
Tgt Ion:202 Resp: 11627

Ion Ratio Lower Upper

202 100

200 20.1 16.2 24.4

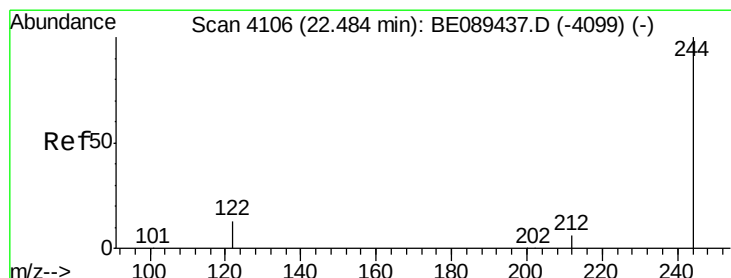
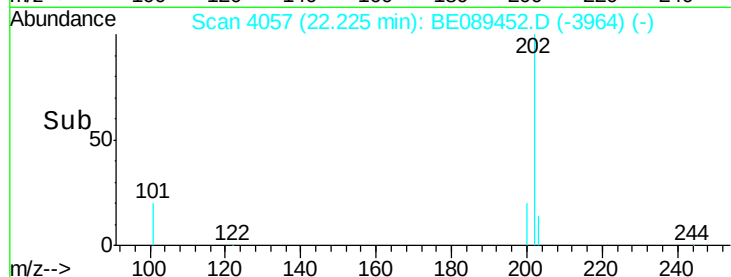
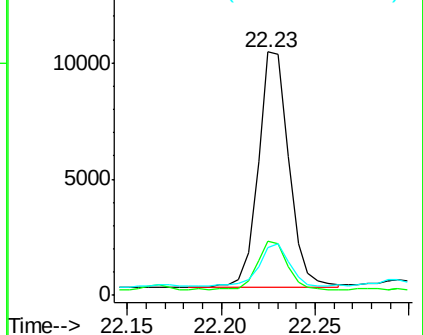
203 18.0 13.8 20.8



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: 17.01 ng

RT: 22.49 min Scan# 4107

Delta R.T. 0.01 min

Lab File: BE089452.D

Acq: 31 Jan 2015 00:32

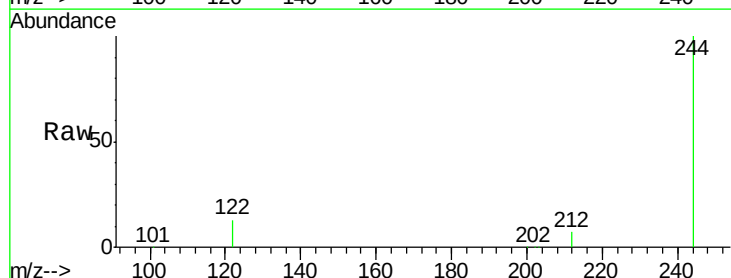
Tgt Ion:244 Resp: 1567332

Ion Ratio Lower Upper

244 100

212 6.8 5.0 7.6

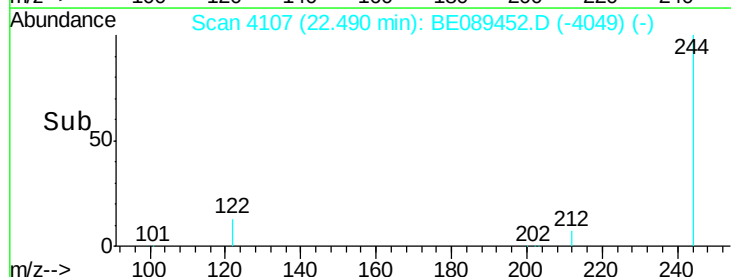
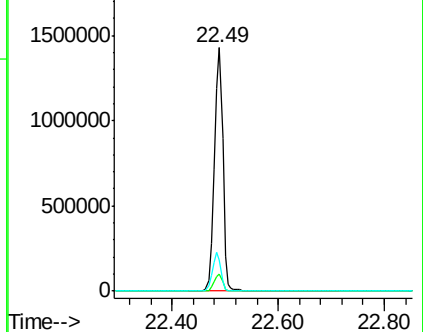
122 12.9 10.2 15.4

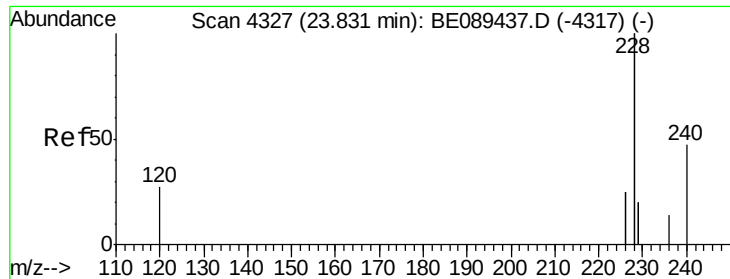


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 0.03 ng

RT: 23.83 min Scan# 4327

Delta R.T. -0.00 min

Lab File: BE089452.D

Acq: 31 Jan 2015 00:32

Instrument :

BNA_E

ClientSampleId :

SUMP

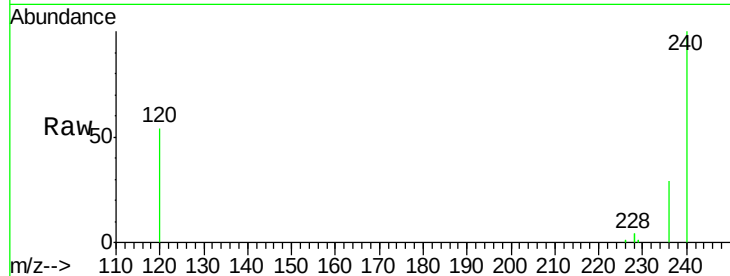
Tgt Ion:228 Resp: 14047

Ion Ratio Lower Upper

228 100

226 27.9 20.0 30.0

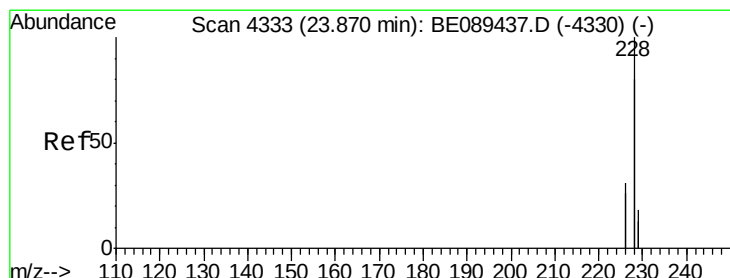
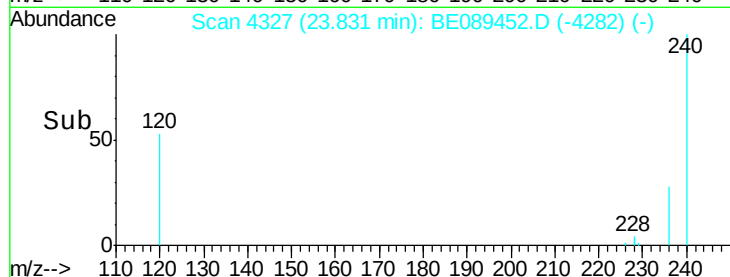
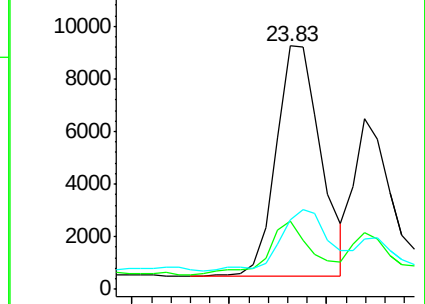
229 28.8 16.0 24.0#



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: 0.01 ng

RT: 23.87 min Scan# 4333

Delta R.T. -0.00 min

Lab File: BE089452.D

Acq: 31 Jan 2015 00:32

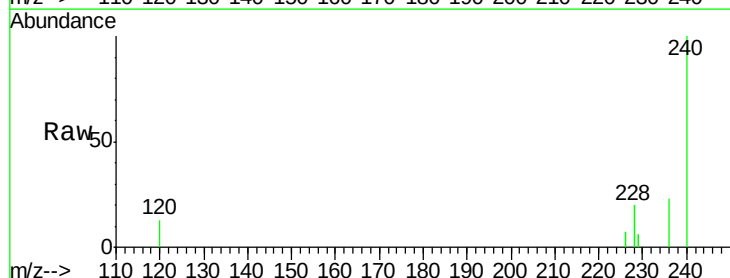
Tgt Ion:228 Resp: 8166

Ion Ratio Lower Upper

228 100

226 33.6 24.5 36.7

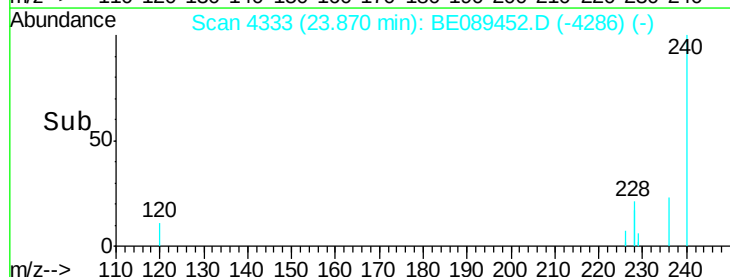
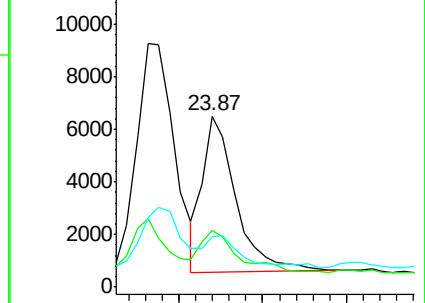
229 29.5 14.1 21.1#

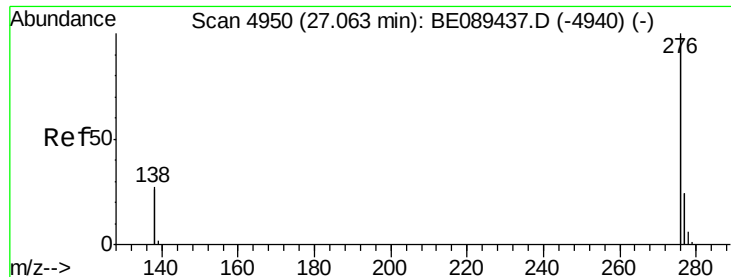


Abundance Ion 228.00 (227.70 to 228.70): E

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: 0.01 ng

RT: 27.05 min Scan# 4948

Delta R.T. -0.01 min

Lab File: BE089452.D

Acq: 31 Jan 2015 00:32

Instrument :

BNA_E

ClientSampleId :

SUMP

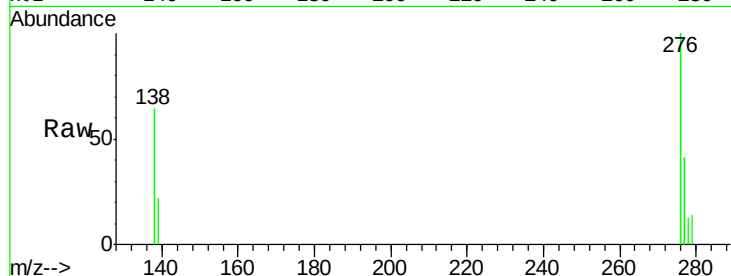
Tgt Ion:276 Resp: 3699

Ion Ratio Lower Upper

276 100

138 32.5 25.4 38.0

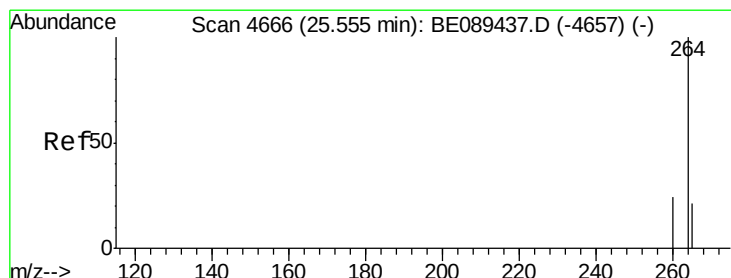
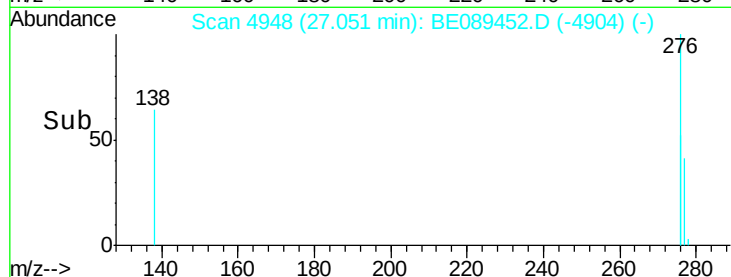
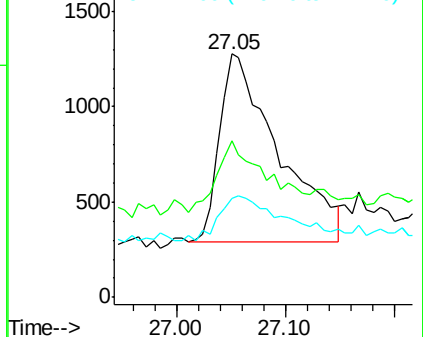
277 27.1 19.8 29.6



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: 25.55 min Scan# 4666

Delta R.T. -0.00 min

Lab File: BE089452.D

Acq: 31 Jan 2015 00:32

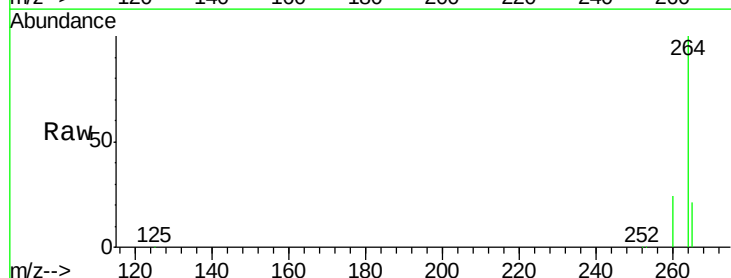
Tgt Ion:264 Resp: 587241

Ion Ratio Lower Upper

264 100

260 23.8 19.4 29.0

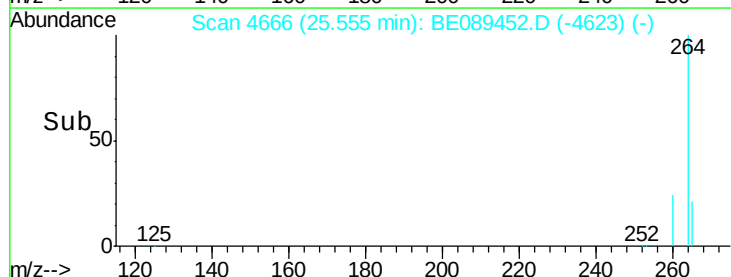
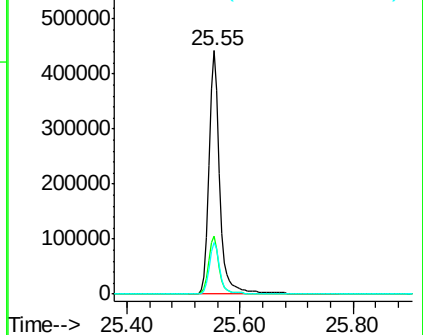
265 21.3 17.0 25.6

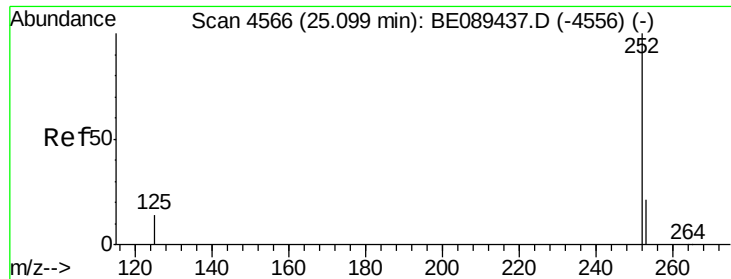


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.20 ng

RT: 25.10 min Scan# 4566

Delta R.T. 0.00 min

Lab File: BE089452.D

Acq: 31 Jan 2015 00:32

Instrument :

BNA_E

ClientSampleId :

SUMP

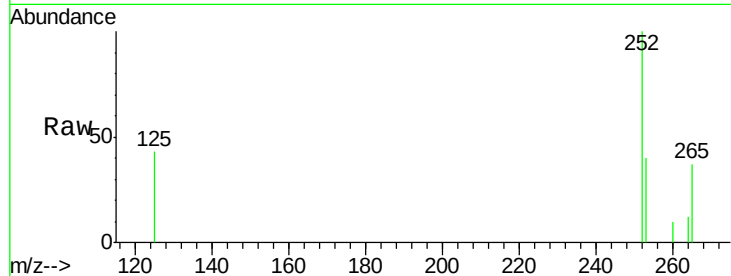
Tgt Ion:252 Resp: 1050

Ion Ratio Lower Upper

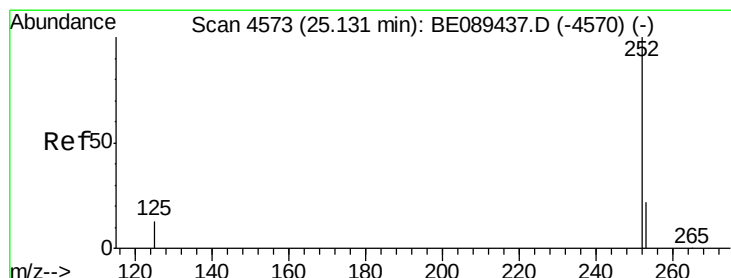
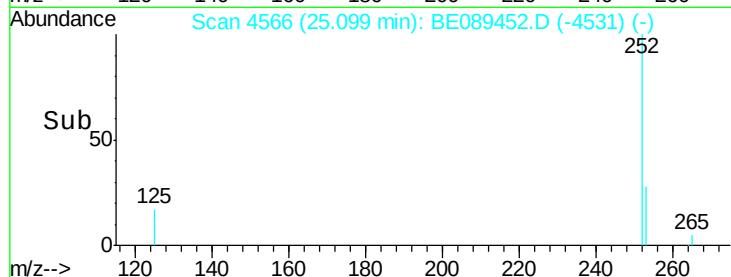
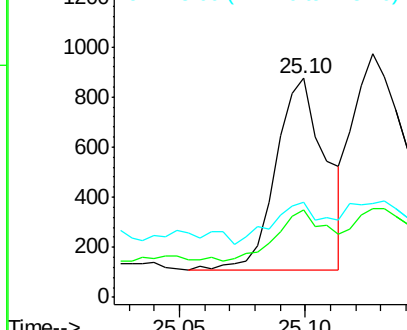
252 100

253 39.9 17.0 25.6#

125 43.2 11.4 17.0#



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



#24

Benzo(k)fluoranthene

Concen: 0.01 ng

RT: 25.13 min Scan# 4572

Delta R.T. -0.00 min

Lab File: BE089452.D

Acq: 31 Jan 2015 00:32

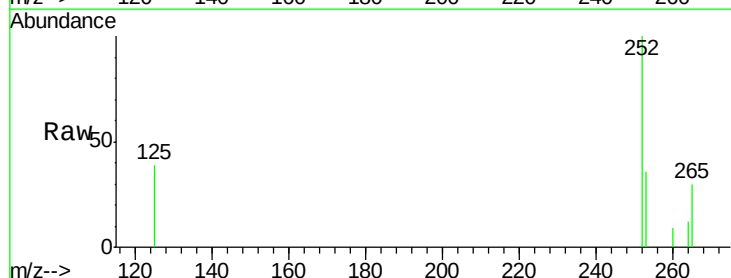
Tgt Ion:252 Resp: 1466

Ion Ratio Lower Upper

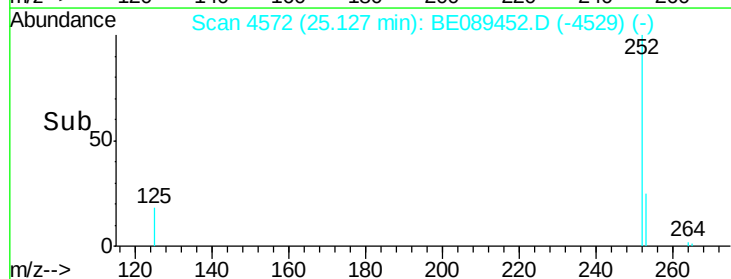
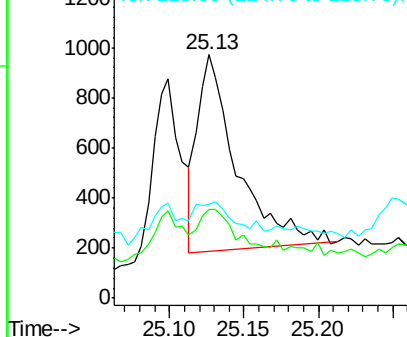
252 100

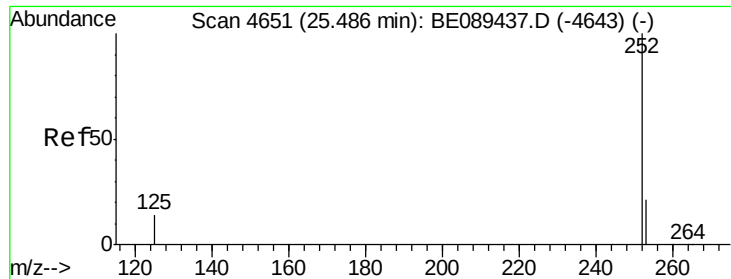
253 36.2 17.4 26.2#

125 38.8 10.9 16.3#



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: 0.13 ng

RT: 25.48 min Scan# 4650

Delta R.T. -0.00 min

Lab File: BE089452.D

Acq: 31 Jan 2015 00:32

Instrument :

BNA_E

ClientSampleId :

SUMP

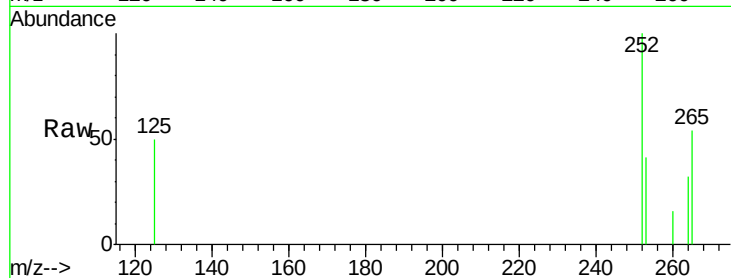
Tgt Ion: 252 Resp: 1047

Ion Ratio Lower Upper

252 100

253 40.6 17.3 25.9#

125 49.9 12.0 18.0#

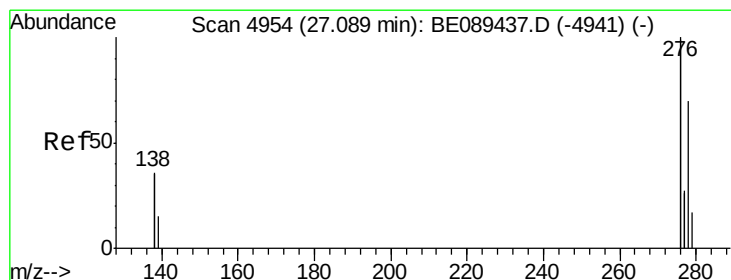
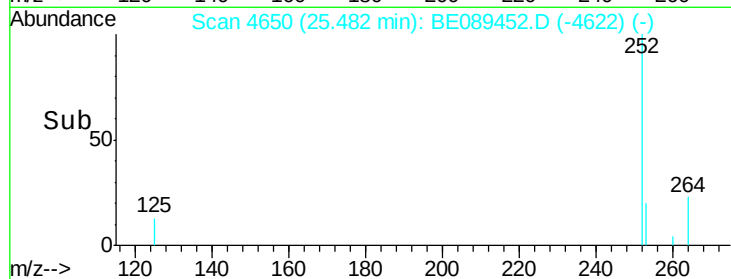
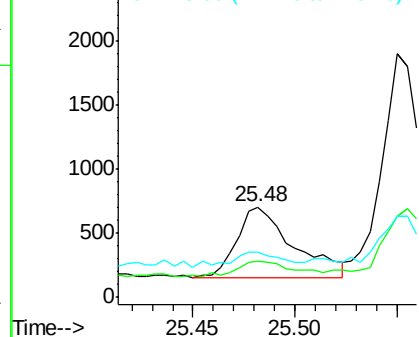


Abundance

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: 0.14 ng

RT: 27.08 min Scan# 4953

Delta R.T. -0.01 min

Lab File: BE089452.D

Acq: 31 Jan 2015 00:32

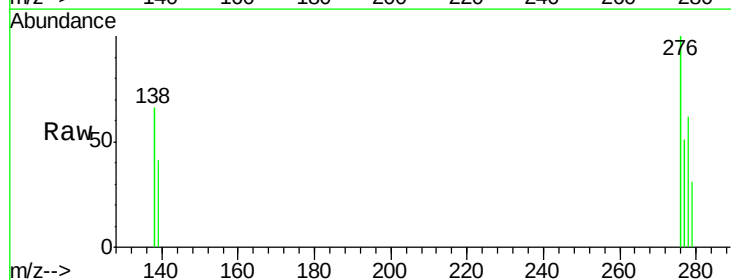
Tgt Ion: 278 Resp: 647

Ion Ratio Lower Upper

278 100

139 65.9 17.0 25.4#

279 49.8 19.1 28.7#

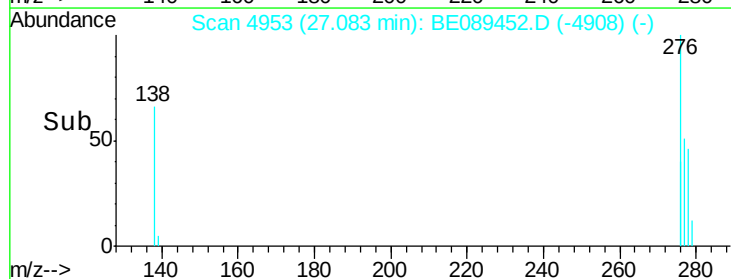
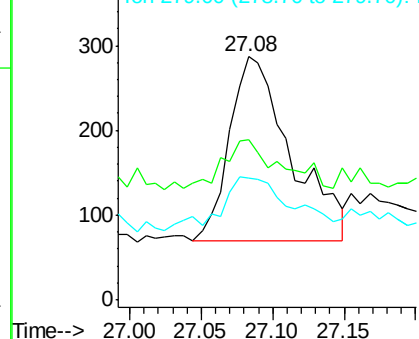


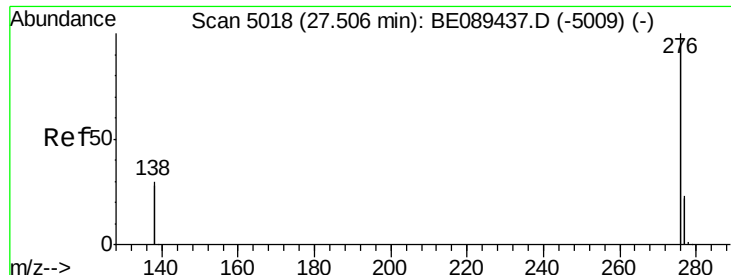
Abundance

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: 0.01 ng

RT: 27.50 min Scan# 5017

Delta R.T. -0.01 min

Lab File: BE089452.D

Acq: 31 Jan 2015 00:32

Instrument :

BNA_E

ClientSampleId :

SUMP

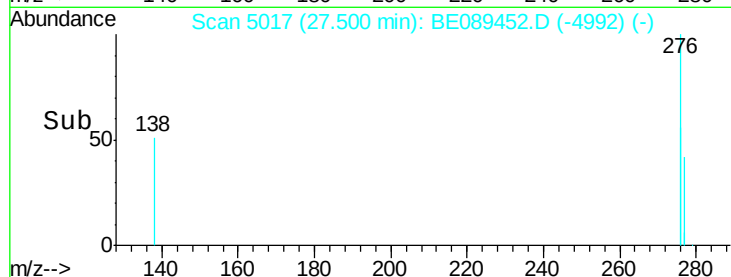
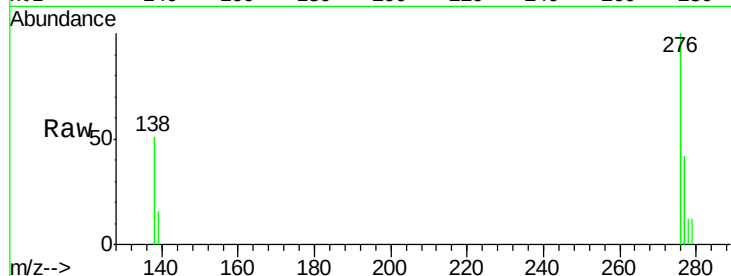
Tgt Ion:276 Resp: 4693

Ion Ratio Lower Upper

276 100

277 42.3 18.4 27.6#

138 51.3 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

