

Data Path : S:\HPCHEM1\BNA_E\Data\BE062915\
 Data File : BE090009.D
 Acq On : 30 Jun 2015 8:54
 Operator : TP/IZ
 Sample : G2811-02
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0520624-150625

Quant Time: Jun 30 16:26:59 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-SIM-BE062915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 30 07:01:01 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.62	152	16540	5.00	ng	0.00
6) Naphthalene-d8	10.39	136	81449	5.00	ng	0.00
12) Acenaphthene-d10	14.24	164	48642	5.00	ng	0.00
18) Phenanthrene-d10	16.98	188	109467	5.00	ng	0.00
25) Chrysene-d12	21.13	240	115299	5.00	ng	0.00
32) Perylene-d12	23.46	264	116708	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.26	112	34433	9.06	ng	0.00
5) Phenol-d6	6.81	99	56282	10.58	ng	0.00
7) Nitrobenzene-d5	8.76	82	33842	5.23	ng	0.00
13) 2,4,6-Tribromophenol	15.73	330	18331	12.86	ng	0.00
14) 2-Fluorobiphenyl	12.86	172	72090	4.93	ng	0.00
27) Terphenyl-d14	19.59	244	103822	5.40	ng	0.00

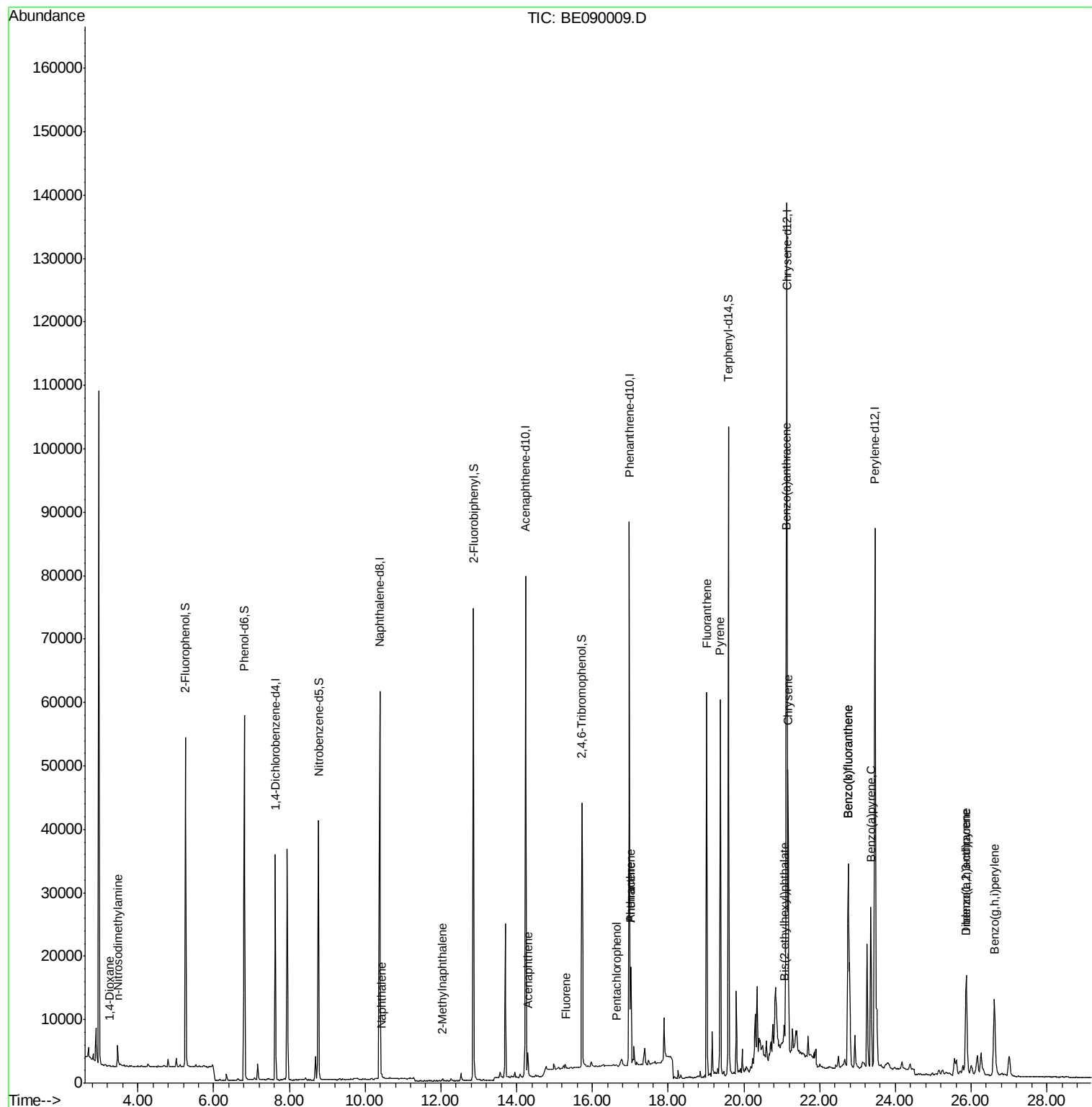
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.25	88	131	0.06	ng	# 44
3) n-Nitrosodimethylamine	3.46	42	703	0.23	ng	# 1
9) Naphthalene	10.43	128	823	0.04	ng	# 74
11) 2-Methylnaphthalene	12.05	142	262	0.02	ng	# 85
16) Acenaphthene	14.30	154	657	0.05	ng	98
17) Fluorene	15.29	166	650	0.04	ng	# 88
21) Pentachlorophenol	16.63	266	43	0.28	ng	# 68
22) Phenanthrene	17.01	178	16484	0.59	ng	99
23) Anthracene	17.01	178	16373	0.64	ng	99
24) Fluoranthene	19.02	202	54644	1.74	ng	99
26) Pyrene	19.38	202	49955	1.82	ng	# 95
28) Benzo(a)anthracene	21.11	228	37191	1.29	ng	97
29) Chrysene	21.17	228	38681	1.29	ng	96
30) Bis(2-ethylhexyl)phthalate	21.07	149	18845	1.64	ng	# 61
31) Indeno(1,2,3-cd)pyrene	25.87	276	26955	0.94	ng	95
33) Benzo(b)fluoranthene	22.75	252	54927	2.13	ng	# 95
34) Benzo(k)fluoranthene	22.75	252	54927	1.91	ng	95
35) Benzo(a)pyrene	23.35	252	37642	1.58	ng	96
36) Dibenzo(a,h)anthracene	25.89	278	6675	0.27	ng	# 80
37) Benzo(g,h,i)perylene	26.62	276	27544	1.11	ng	96

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.62 min Scan# 854

Delta R.T. 0.00 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

Instrument :

BNA_E

ClientSampleId :

X1SS0520624-150625

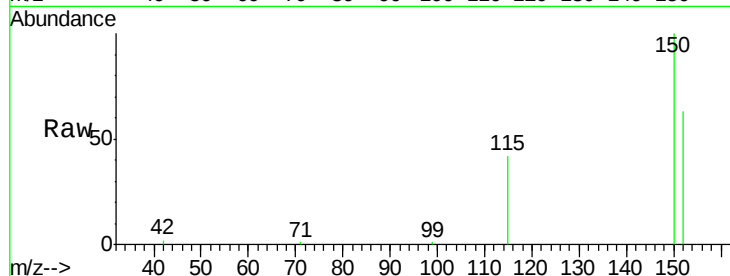
Tgt Ion:152 Resp: 16540

Ion Ratio Lower Upper

152 100

150 159.5 123.9 185.9

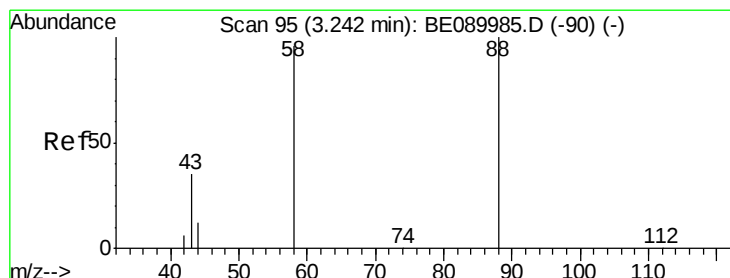
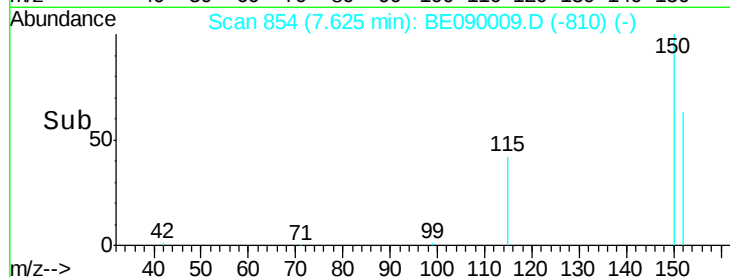
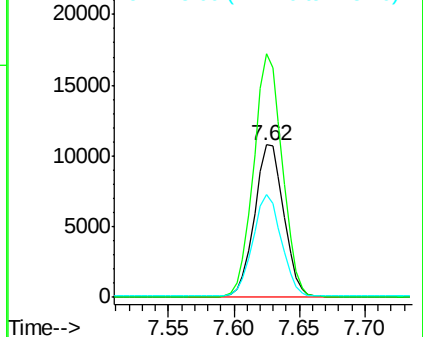
115 67.2 50.6 76.0



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

1,4-Dioxane

Concen: 0.06 ng

RT: 3.25 min Scan# 96

Delta R.T. 0.01 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

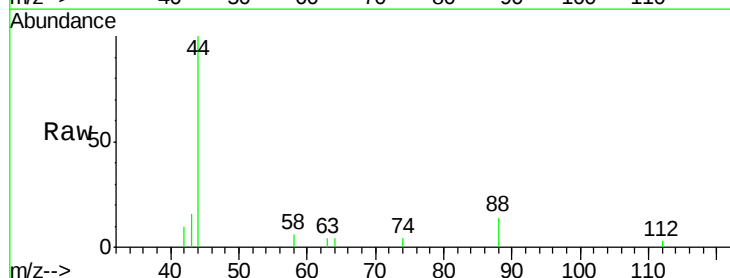
Tgt Ion: 88 Resp: 131

Ion Ratio Lower Upper

88 100

58 63.4 70.9 106.3#

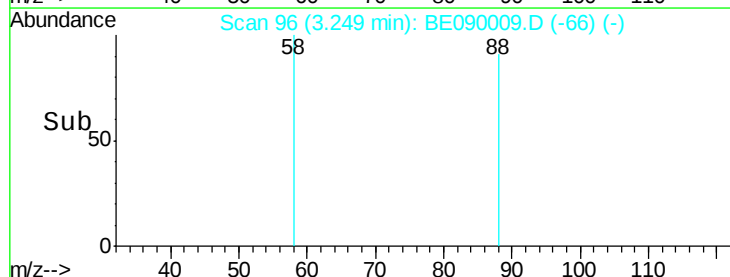
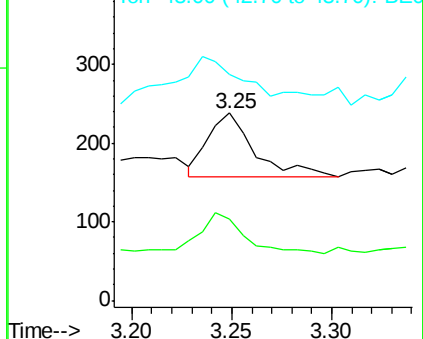
43 110.7 27.6 41.4#

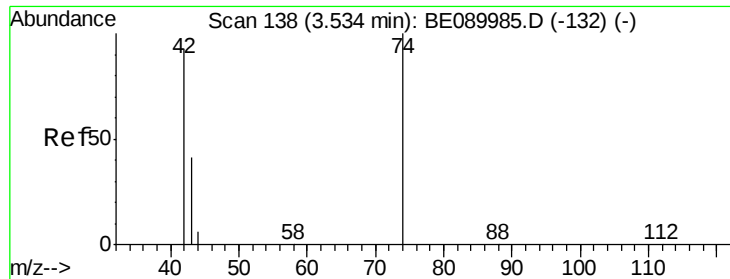


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.23 ng

RT: 3.46 min Scan# 127

Delta R.T. -0.08 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

Instrument :

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ClientSampleId :

X1SS0520624-150625

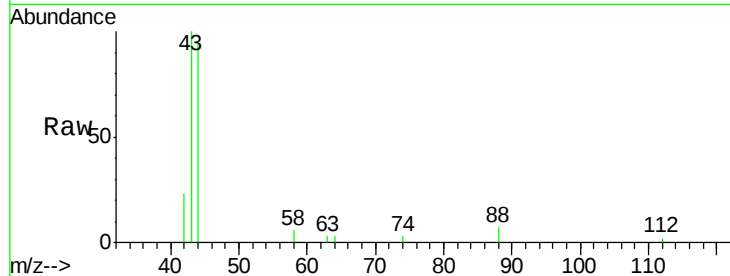
Tgt Ion: 42 Resp: 703

Ion Ratio Lower Upper

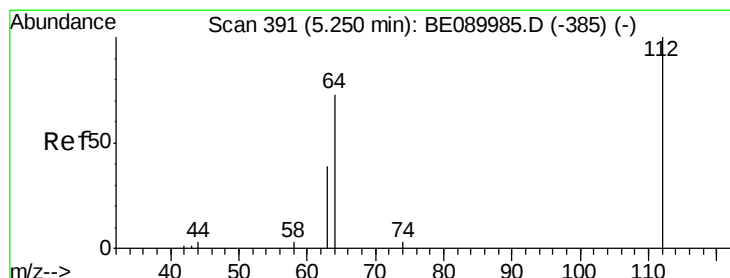
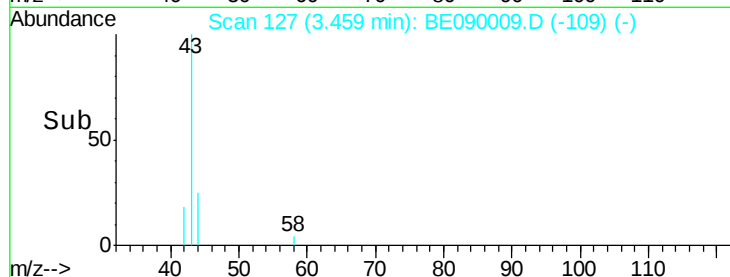
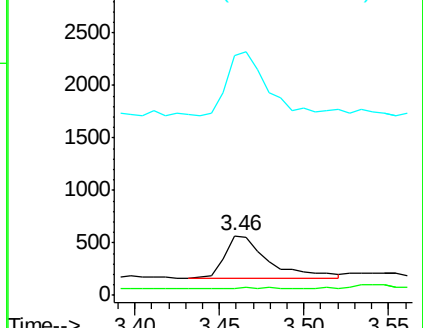
42 100

74 3.0 89.4 134.2#

44 144.5 6.9 10.3#



Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 9.06 ng

RT: 5.26 min Scan# 392

Delta R.T. 0.01 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

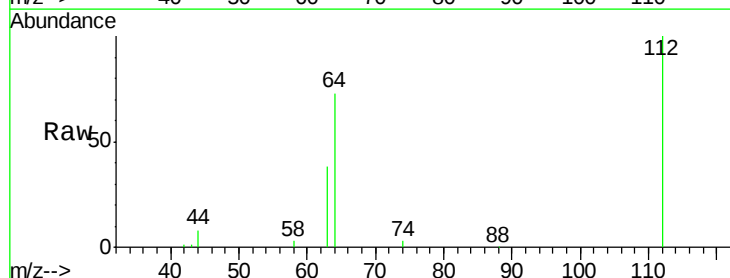
Tgt Ion: 112 Resp: 34433

Ion Ratio Lower Upper

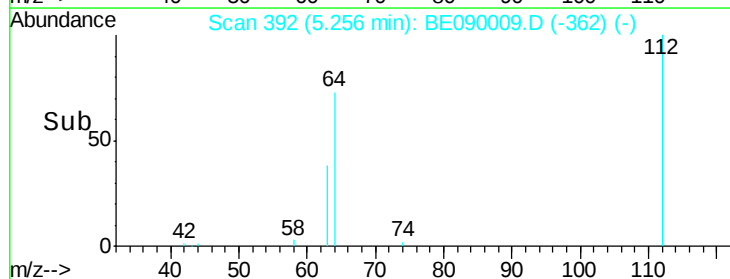
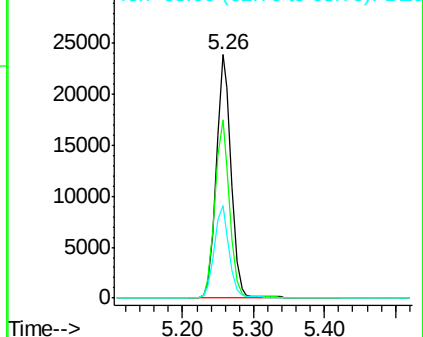
112 100

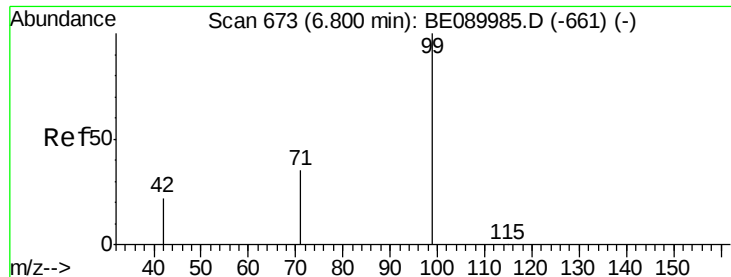
64 72.4 56.3 84.5

63 37.3 29.8 44.6



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 10.58 ng

RT: 6.81 min Scan# 675

Delta R.T. 0.01 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

Instrument :

BNA_E

ClientSampleId :

X1SS0520624-150625

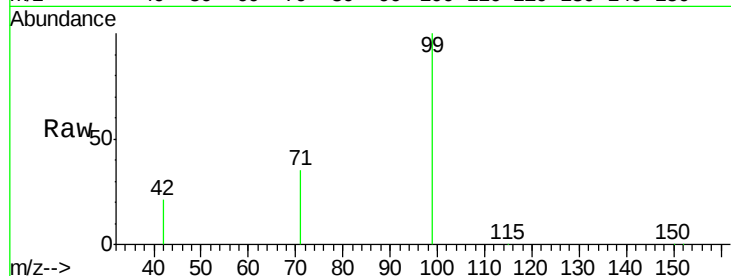
Tgt Ion: 99 Resp: 56282

Ion Ratio Lower Upper

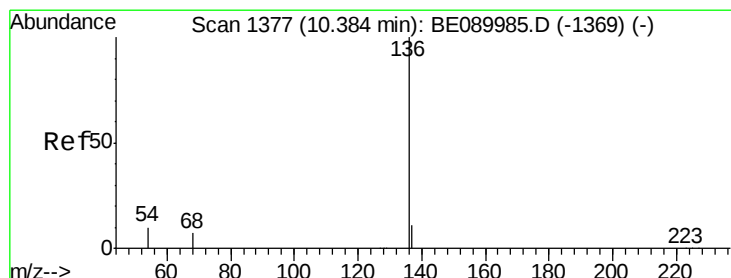
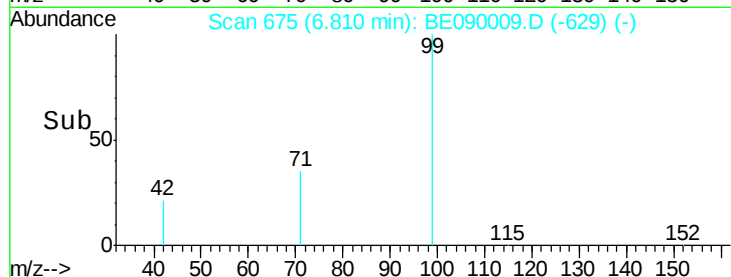
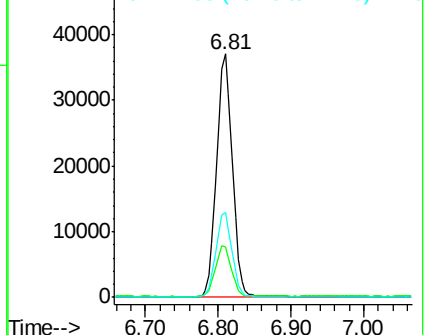
99 100

42 21.1 18.7 28.1

71 34.9 27.5 41.3



Abundance Ion 99.00 (98.70 to 99.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 71.00 (70.70 to 71.70): BE0



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.39 min Scan# 1377

Delta R.T. 0.00 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

Tgt Ion: 136 Resp: 81449

Ion Ratio Lower Upper

136 100

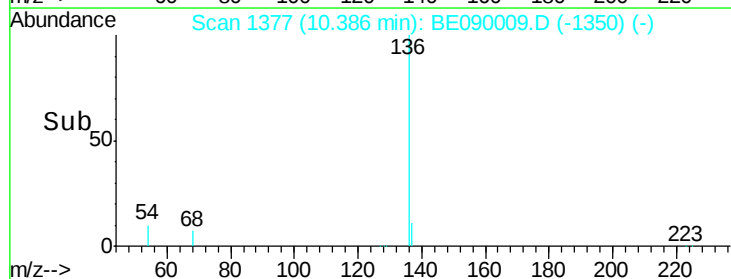
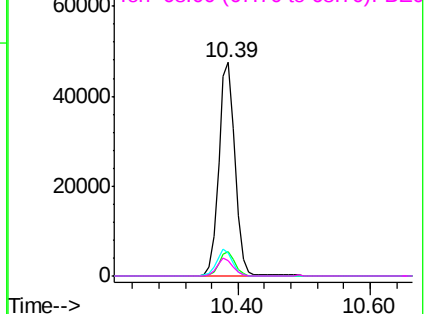
137 11.1 8.9 13.3

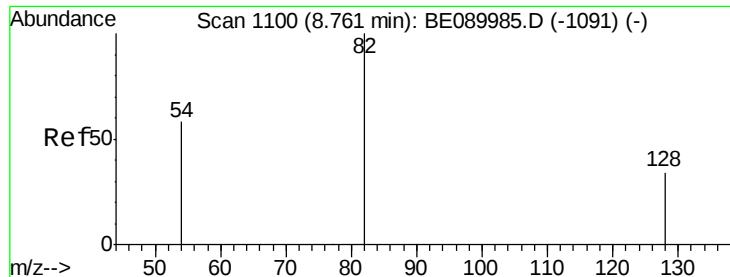
54 10.5 8.2 12.4

68 7.5 5.8 8.8



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
Ion 68.00 (67.70 to 68.70): BE0





#7

Nitrobenzene-d5

Concen: 5.23 ng

RT: 8.76 min Scan# 1101

Delta R.T. 0.00 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

Instrument :

BNA_E

ClientSampleId :

X1SS0520624-150625

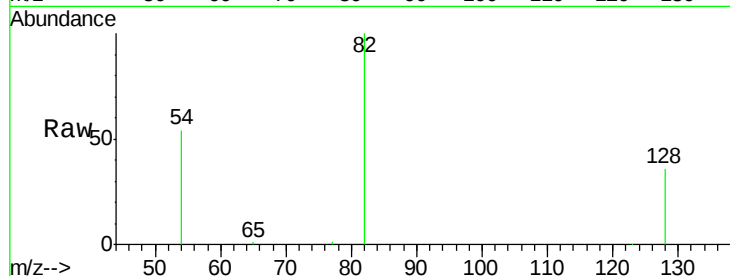
Tgt Ion: 82 Resp: 33842

Ion Ratio Lower Upper

82 100

128 36.3 28.0 42.0

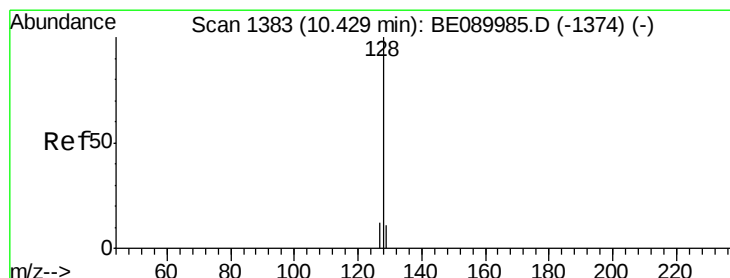
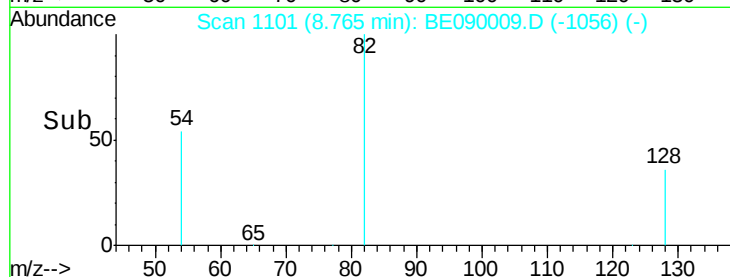
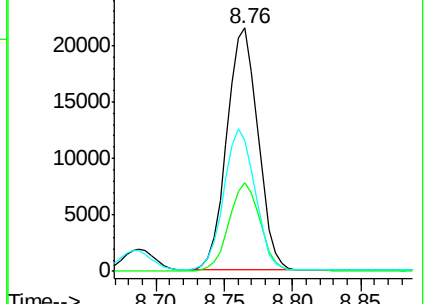
54 54.0 47.6 71.4



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#9

Naphthalene

Concen: 0.04 ng

RT: 10.43 min Scan# 1383

Delta R.T. 0.00 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

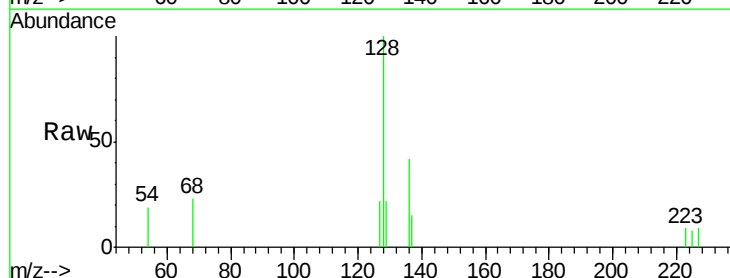
Tgt Ion: 128 Resp: 823

Ion Ratio Lower Upper

128 100

129 22.4 9.3 13.9#

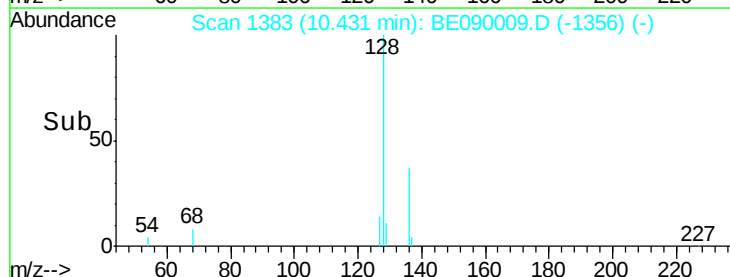
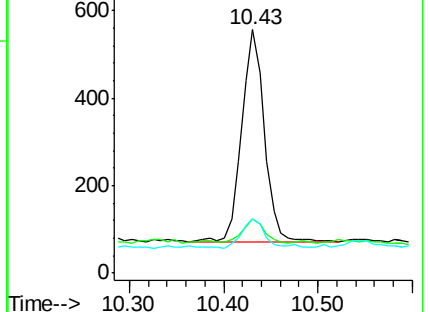
127 22.3 10.2 15.4#

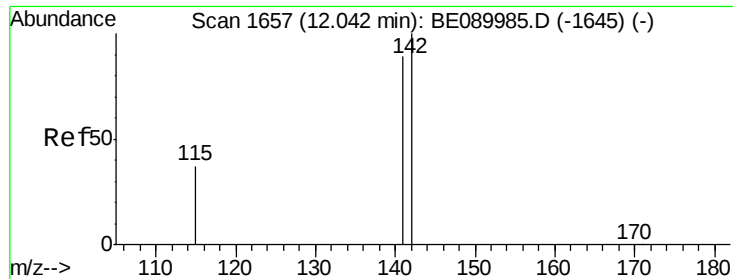


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

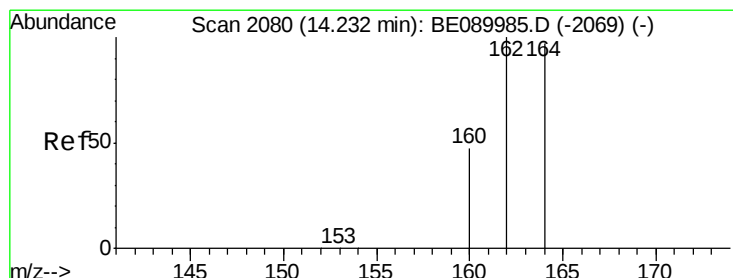
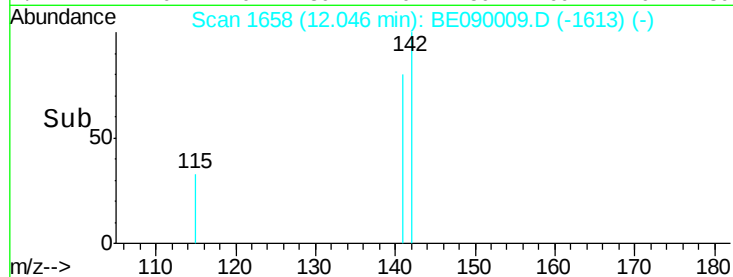
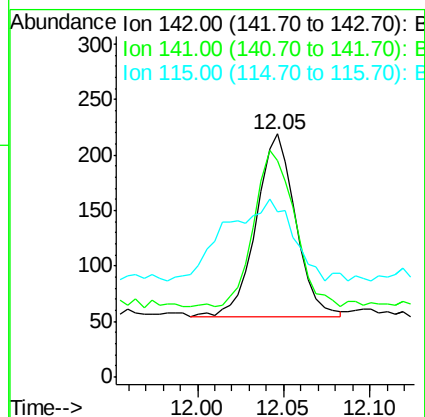
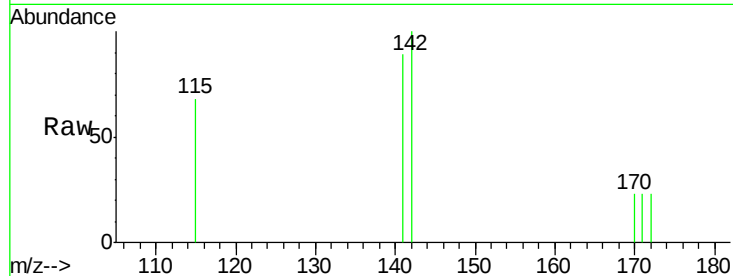




#11
2-Methylnaphthalene
Concen: 0.02 ng
RT: 12.05 min Scan# 1658
Delta R.T. 0.00 min
Lab File: BE090009.D
Acq: 30 Jun 2015 8:54

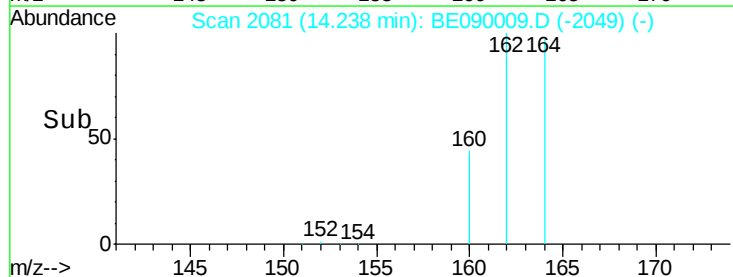
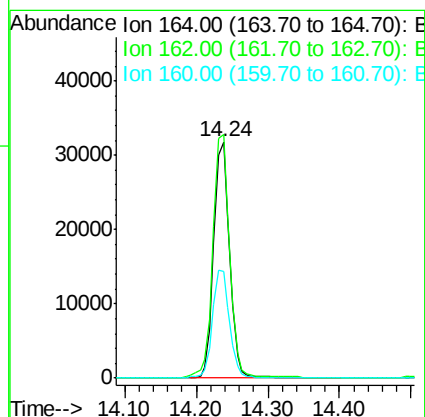
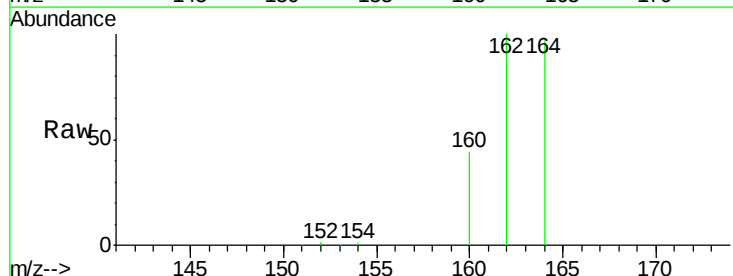
Instrument :
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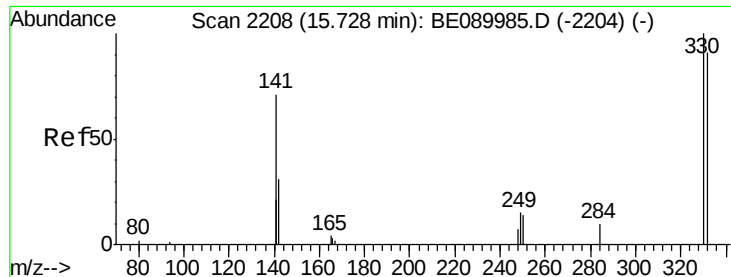
Tgt Ion: 142 Resp: 262
Ion Ratio Lower Upper
142 100
141 89.0 71.3 106.9
115 68.0 30.4 45.6#



#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.24 min Scan# 2081
Delta R.T. 0.01 min
Lab File: BE090009.D
Acq: 30 Jun 2015 8:54

Tgt Ion: 164 Resp: 48642
Ion Ratio Lower Upper
164 100
162 102.9 82.2 123.4
160 45.3 39.0 58.6

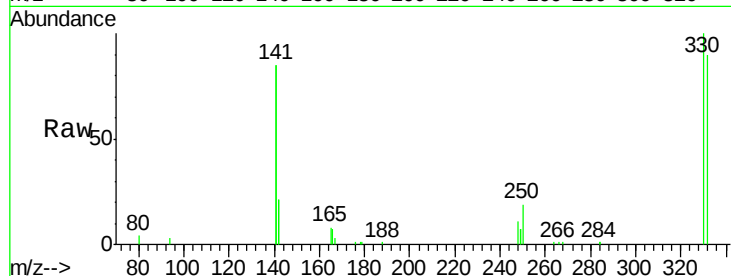




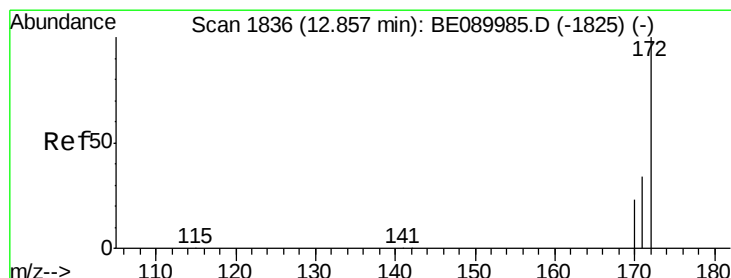
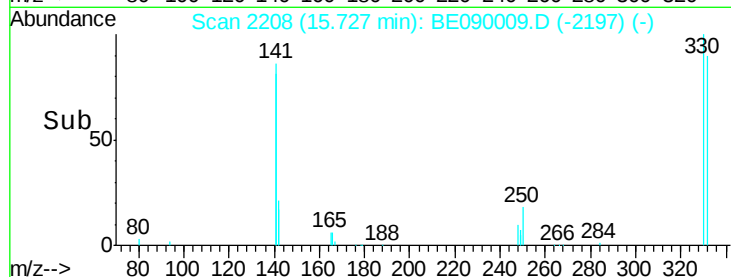
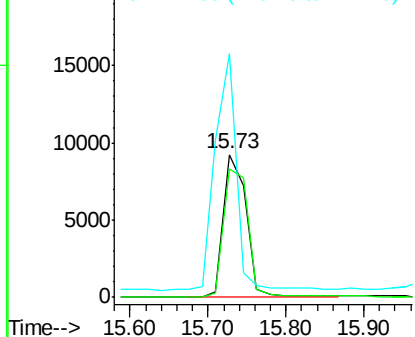
#13
 2,4,6-Tribromophenol
 Concen: 12.86 ng
 RT: 15.73 min Scan# 2208
 Delta R.T. -0.00 min
 Lab File: BE090009.D
 Acq: 30 Jun 2015 8:54

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0520624-150625

Tgt Ion: 330 Resp: 18331
 Ion Ratio Lower Upper
 330 100
 332 97.1 76.4 114.6
 141 154.7 130.3 195.5

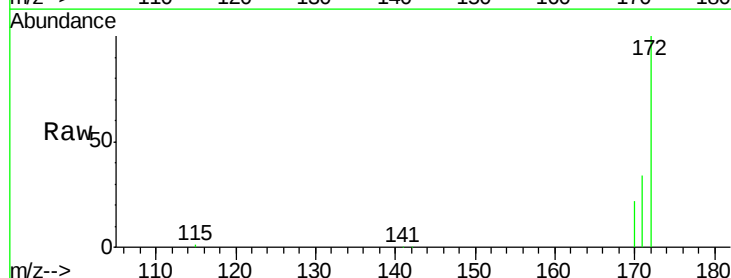


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

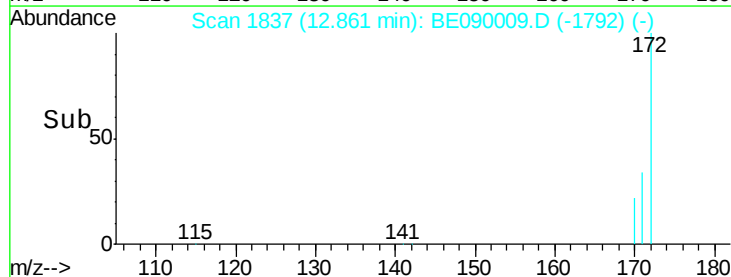
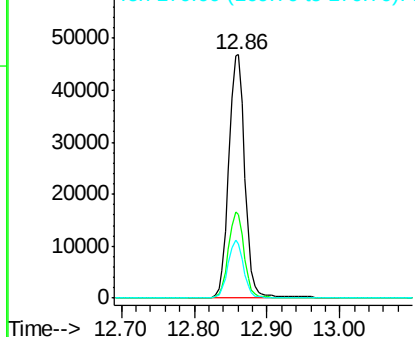


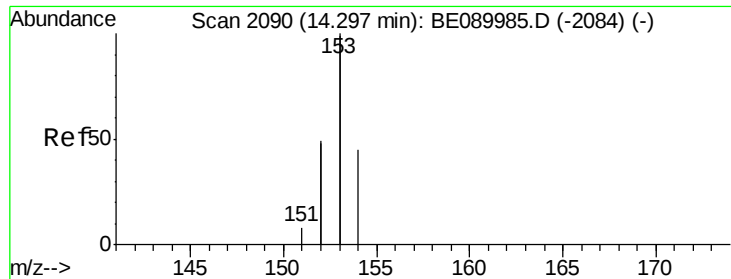
#14
 2-Fluorobiphenyl
 Concen: 4.93 ng
 RT: 12.86 min Scan# 1837
 Delta R.T. 0.00 min
 Lab File: BE090009.D
 Acq: 30 Jun 2015 8:54

Tgt Ion: 172 Resp: 72090
 Ion Ratio Lower Upper
 172 100
 171 34.1 27.8 41.6
 170 22.2 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





#16

Acenaphthene

Concen: 0.05 ng

RT: 14.30 min Scan# 2090

Delta R.T. -0.00 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

Instrument :

BNA_E

ClientSampleId :

X1SS0520624-150625

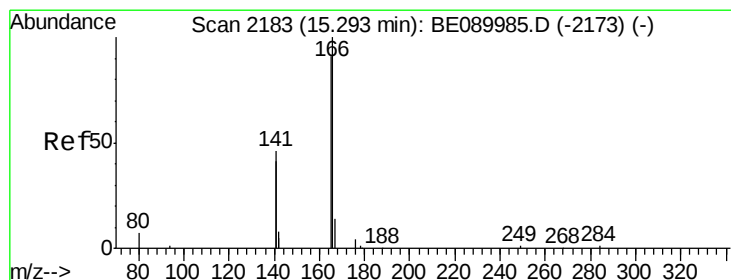
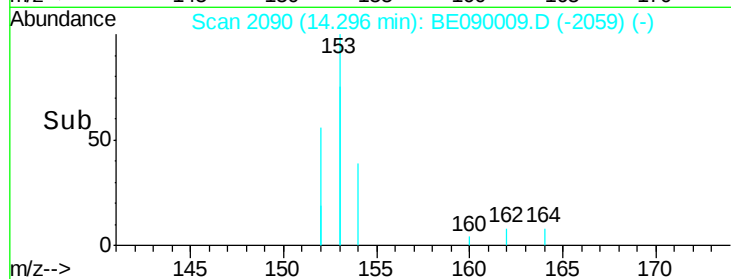
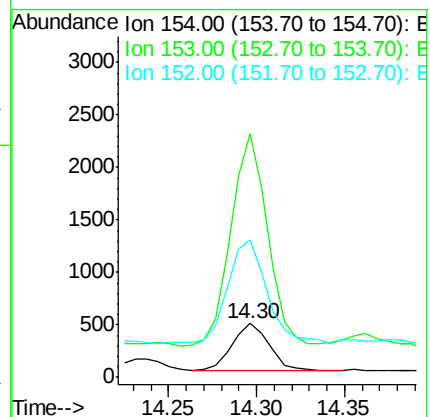
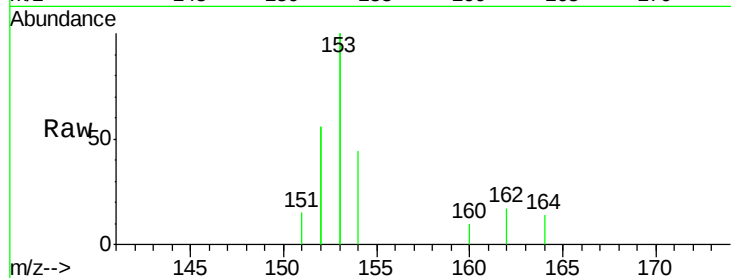
Tgt Ion:154 Resp: 657

Ion Ratio Lower Upper

154 100

153 449.2 358.6 538.0

152 228.0 189.6 284.4



#17

Fluorene

Concen: 0.04 ng

RT: 15.29 min Scan# 2183

Delta R.T. -0.00 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

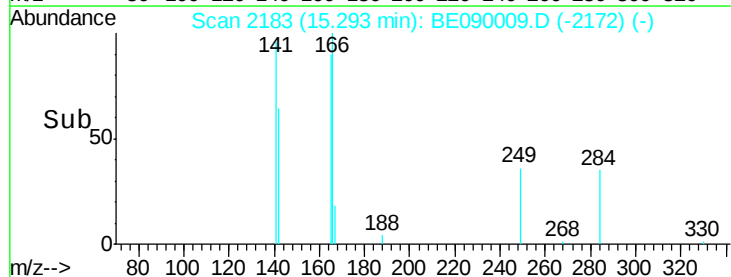
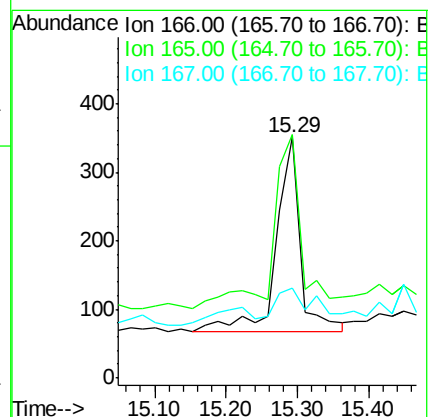
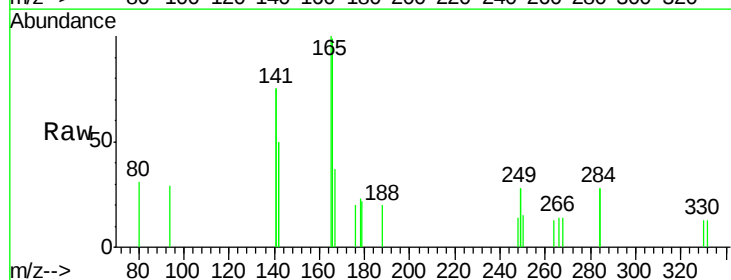
Tgt Ion:166 Resp: 650

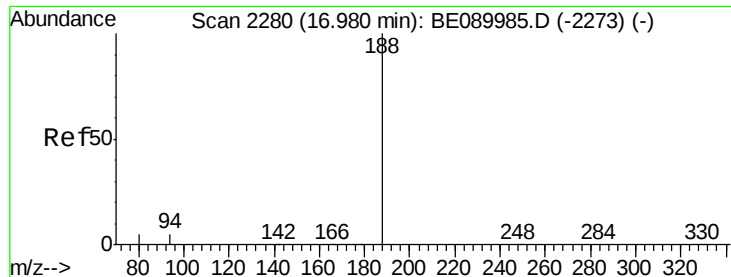
Ion Ratio Lower Upper

166 100

165 109.2 79.0 118.6

167 24.0 11.8 17.8#





#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.98 min Scan# 2280

Delta R.T. -0.00 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

Instrument :

BNA_E

ClientSampleId :

X1SS0520624-150625

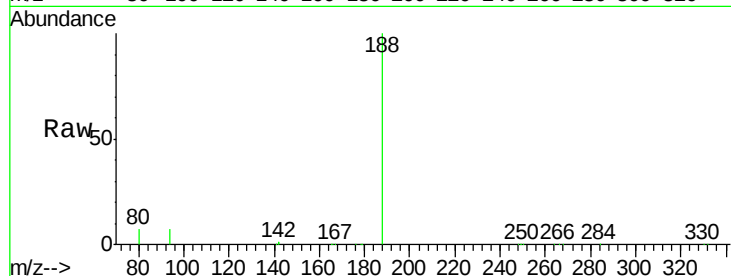
Tgt Ion:188 Resp: 109467

Ion Ratio Lower Upper

188 100

94 6.7 4.1 6.1#

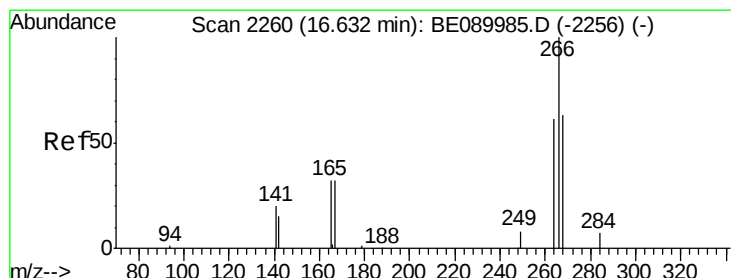
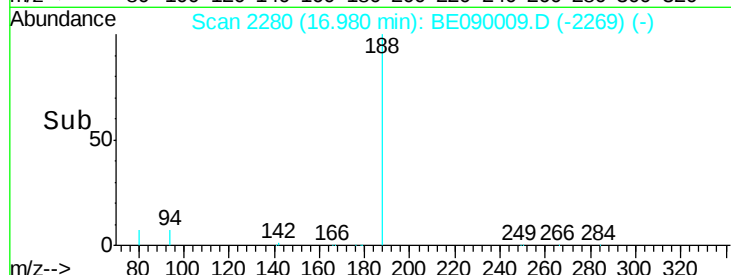
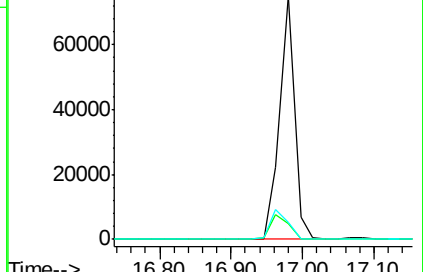
80 7.0 4.2 6.2#



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



#21

Pentachlorophenol

Concen: 0.28 ng

RT: 16.63 min Scan# 2260

Delta R.T. 0.00 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

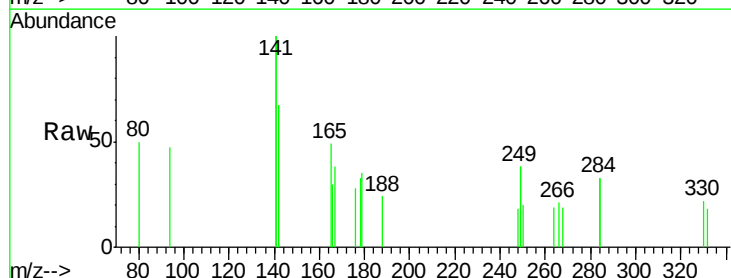
Tgt Ion:266 Resp: 43

Ion Ratio Lower Upper

266 100

268 88.9 51.8 77.8#

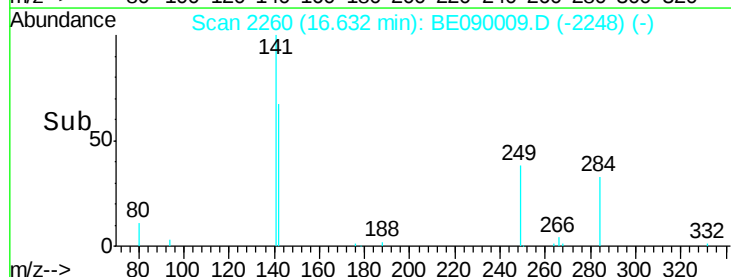
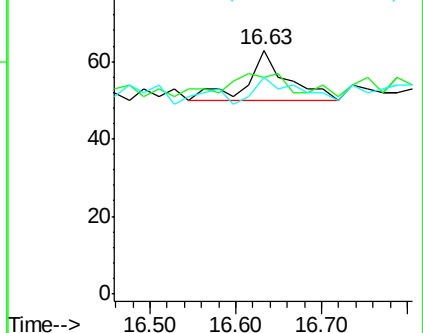
264 88.9 50.2 75.2#

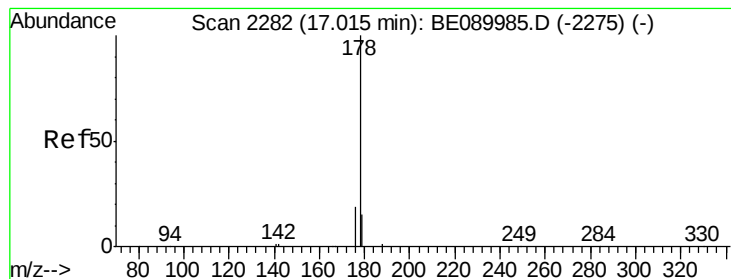


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#22

Phenanthrene

Concen: 0.59 ng

RT: 17.01 min Scan# 2282

Delta R.T. -0.00 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

Instrument :

BNA_E

ClientSampleId :

X1SS0520624-150625

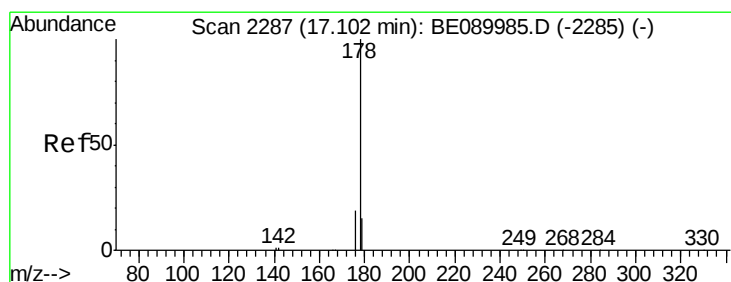
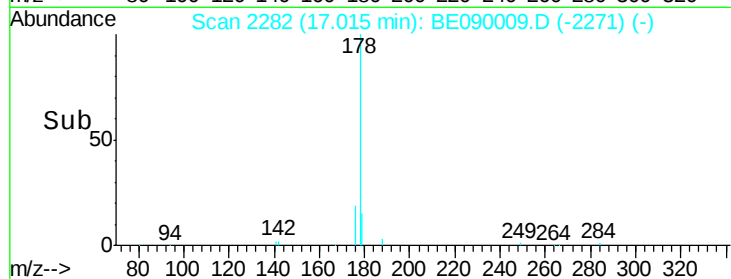
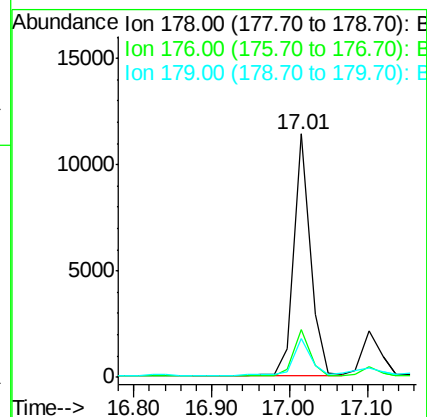
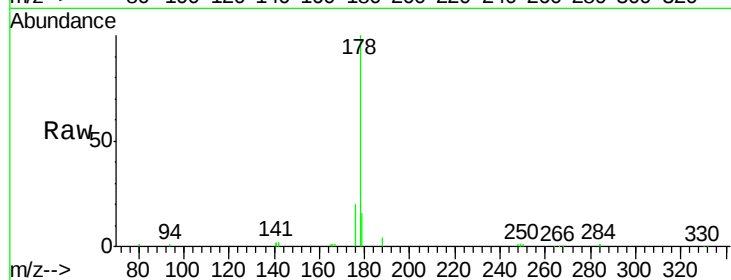
Tgt Ion:178 Resp: 16484

Ion Ratio Lower Upper

178 100

176 19.1 15.3 22.9

179 16.6 12.4 18.6



#23

Anthracene

Concen: 0.64 ng

RT: 17.01 min Scan# 2282

Delta R.T. -0.09 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

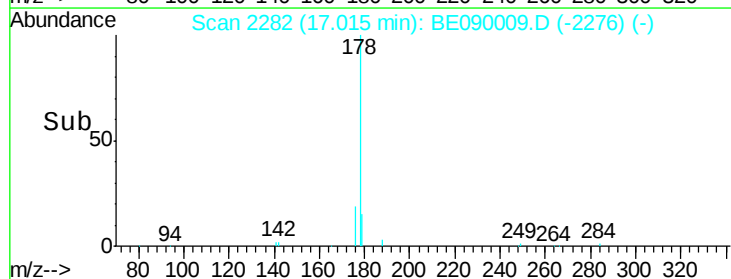
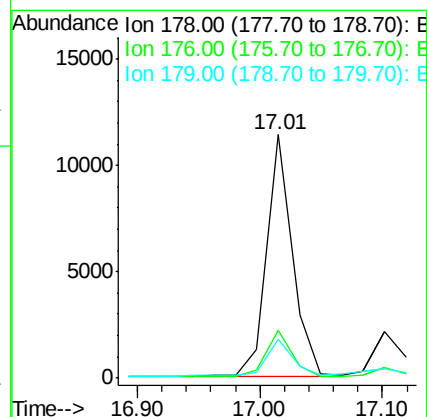
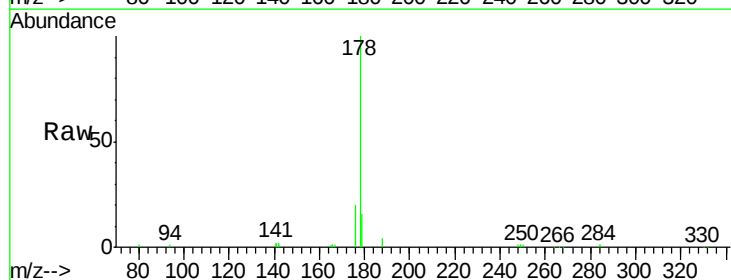
Tgt Ion:178 Resp: 16373

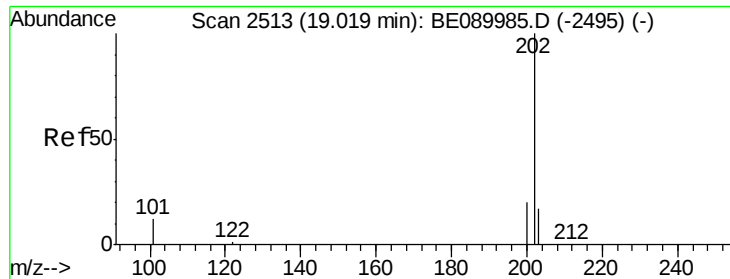
Ion Ratio Lower Upper

178 100

176 18.6 14.7 22.1

179 15.8 12.1 18.1

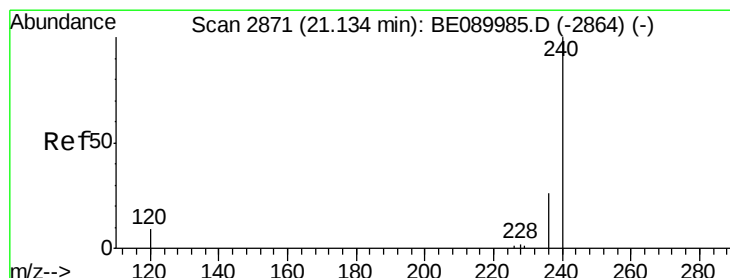
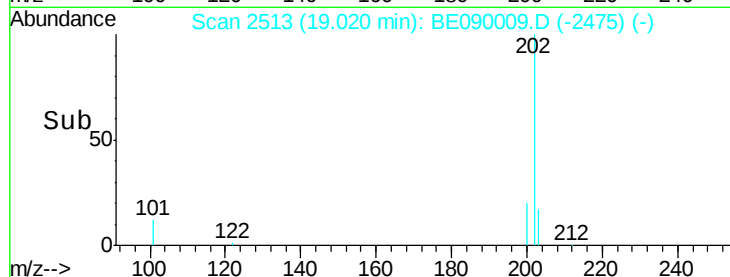
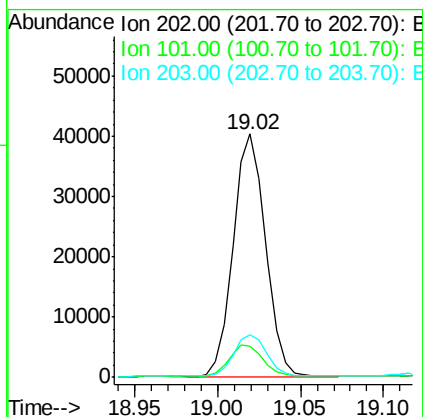
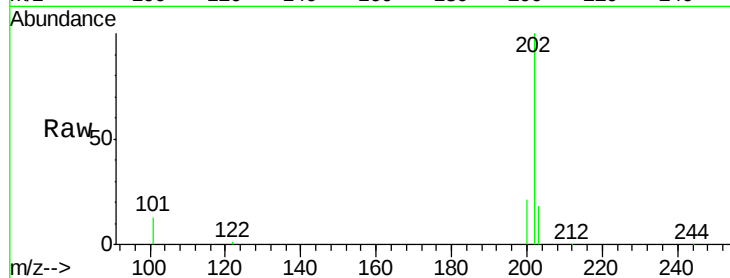




#24
 Fluoranthene
 Concen: 1.74 ng
 RT: 19.02 min Scan# 2513
 Delta R.T. 0.00 min
 Lab File: BE090009.D
 Acq: 30 Jun 2015 8:54

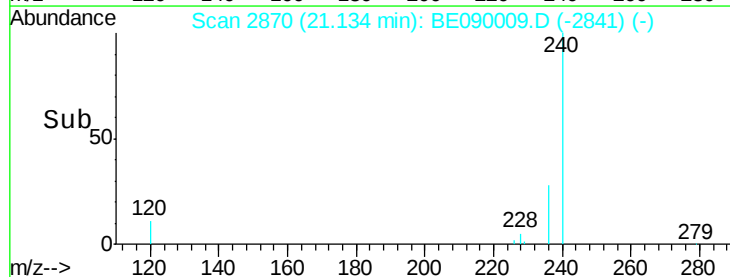
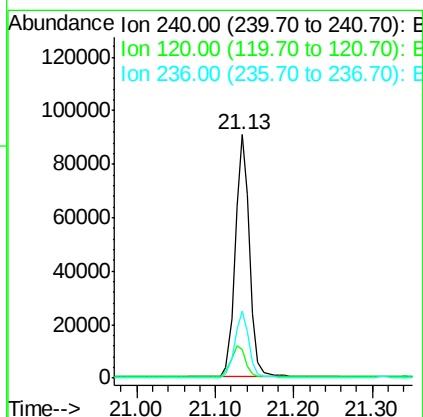
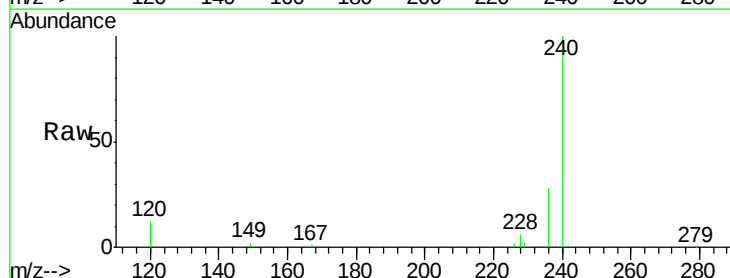
Instrument :
 BNA_E
 ClientSampleId :
 X1SS0520624-150625

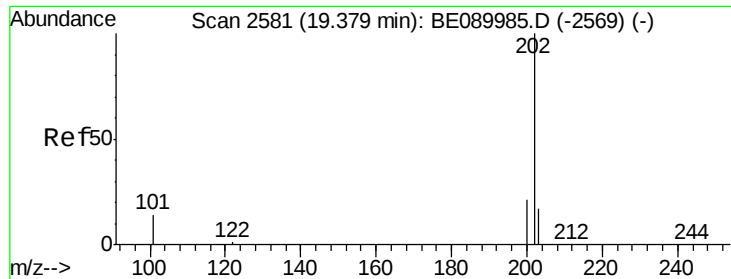
Tgt Ion:202 Resp: 54644
 Ion Ratio Lower Upper
 202 100
 101 14.1 10.6 15.8
 203 17.4 13.8 20.6



#25
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.13 min Scan# 2870
 Delta R.T. -0.00 min
 Lab File: BE090009.D
 Acq: 30 Jun 2015 8:54

Tgt Ion:240 Resp: 115299
 Ion Ratio Lower Upper
 240 100
 120 11.9 6.9 10.3#
 236 27.6 20.8 31.2

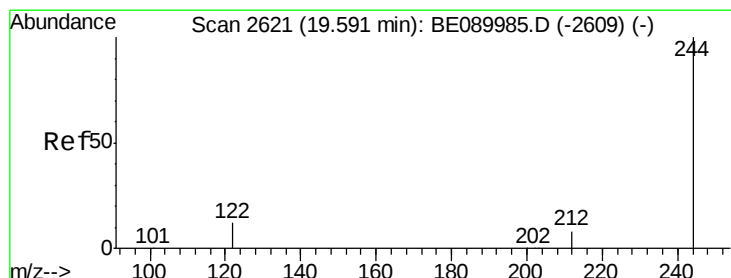
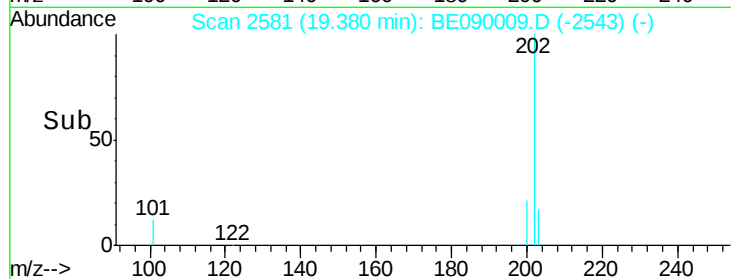
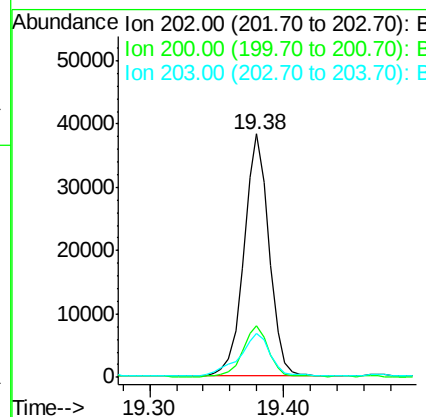
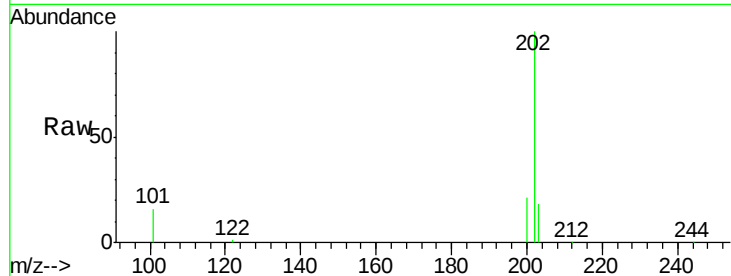




#26
 Pyrene
 Concen: 1.82 ng
 RT: 19.38 min Scan# 2581
 Delta R.T. 0.00 min
 Lab File: BE090009.D
 Acq: 30 Jun 2015 8:54

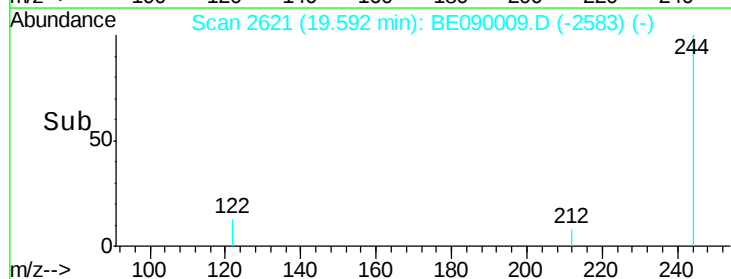
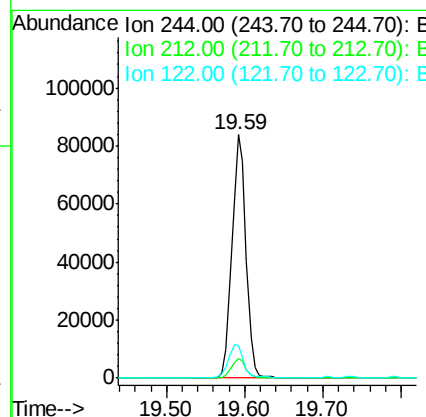
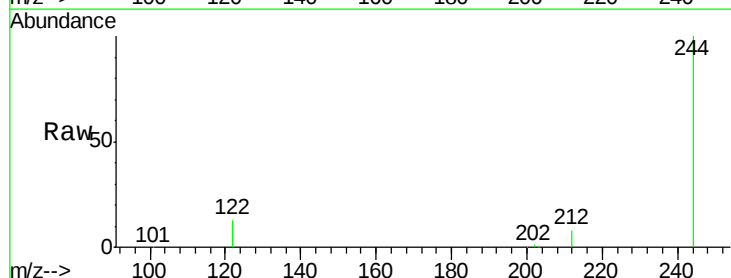
Instrument :
 BNA_E
 ClientSampleId :
 X1SS0520624-150625

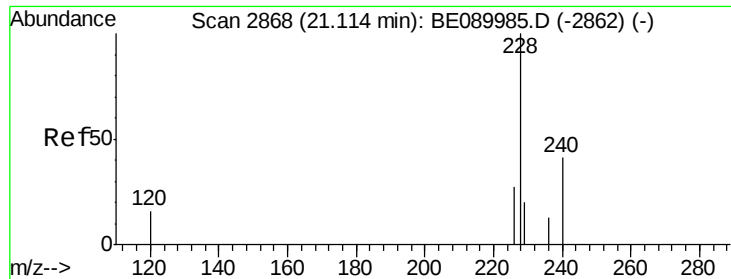
Tgt Ion: 202 Resp: 49955
 Ion Ratio Lower Upper
 202 100
 200 21.3 16.8 25.2
 203 21.8 13.9 20.9#



#27
 Terphenyl-d14
 Concen: 5.40 ng
 RT: 19.59 min Scan# 2621
 Delta R.T. 0.00 min
 Lab File: BE090009.D
 Acq: 30 Jun 2015 8:54

Tgt Ion: 244 Resp: 103822
 Ion Ratio Lower Upper
 244 100
 212 8.3 6.6 9.8
 122 13.3 9.8 14.8





#28

Benzo(a)anthracene

Concen: 1.29 ng

RT: 21.11 min Scan# 2867

Delta R.T. -0.00 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

Instrument :

BNA_E

ClientSampleId :

X1SS0520624-150625

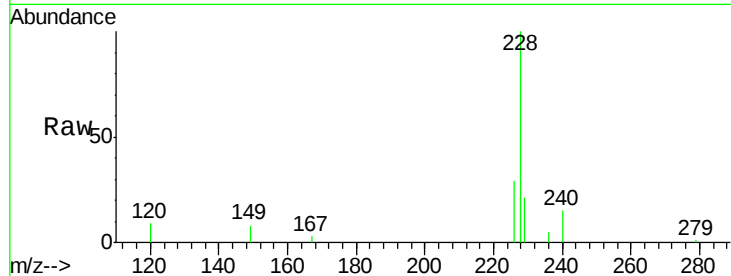
Tgt Ion:228 Resp: 37191

Ion Ratio Lower Upper

228 100

226 29.4 21.8 32.6

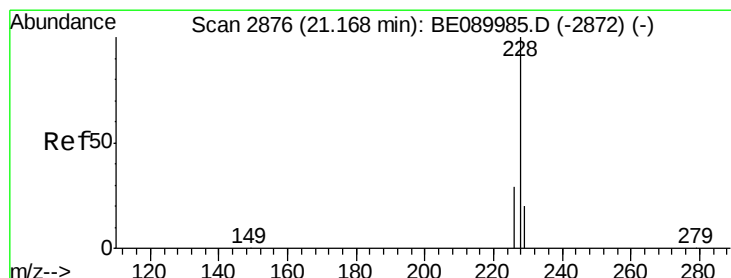
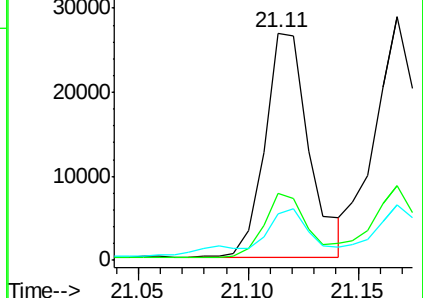
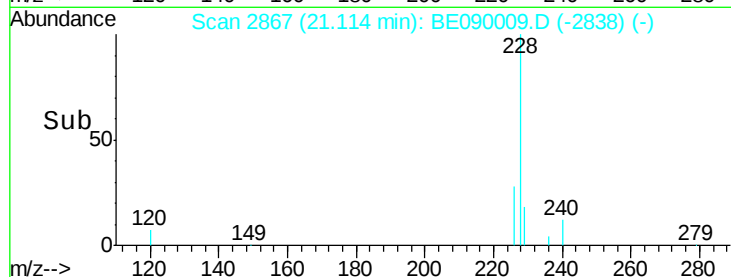
229 20.6 15.8 23.6



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



#29

Chrysene

Concen: 1.29 ng

RT: 21.17 min Scan# 2875

Delta R.T. -0.00 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

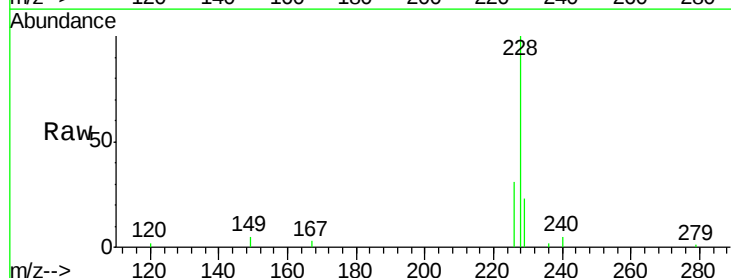
Tgt Ion:228 Resp: 38681

Ion Ratio Lower Upper

228 100

226 30.5 23.4 35.0

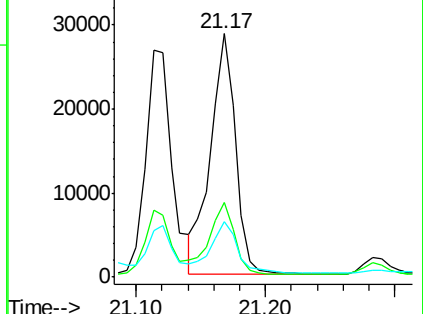
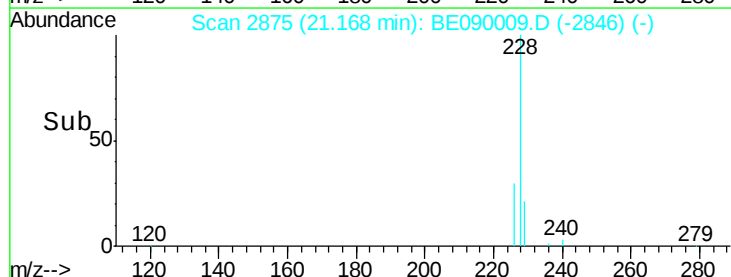
229 22.9 16.2 24.2

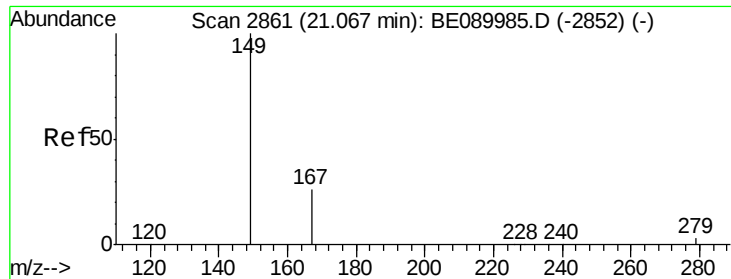


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

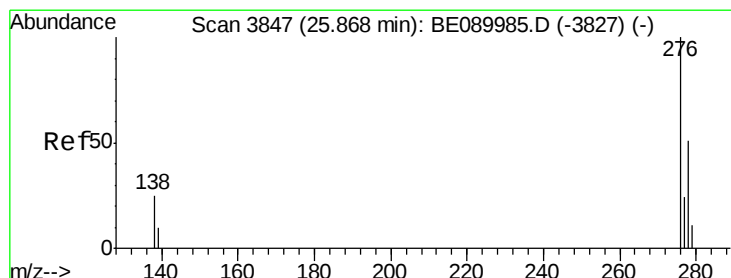
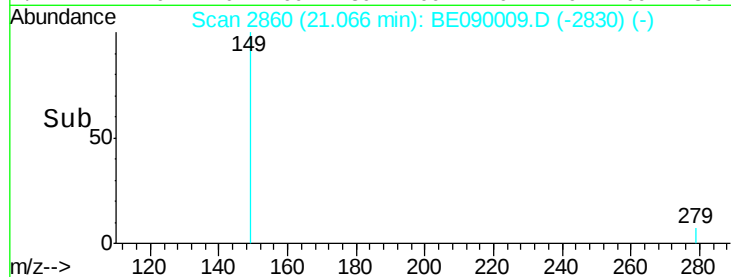
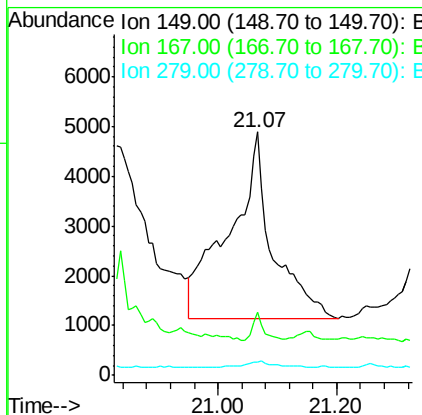
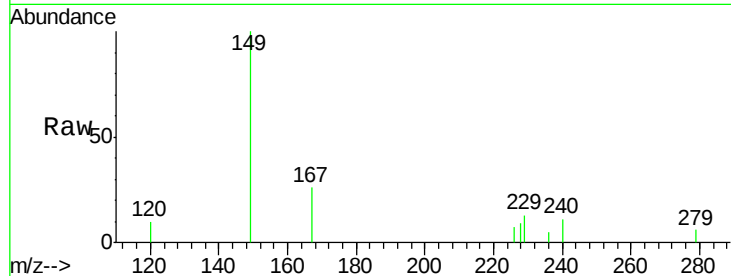




#30
 Bis(2-ethylhexyl)phthalate
 Concen: 1.64 ng
 RT: 21.07 min Scan# 2860
 Delta R.T. 0.00 min
 Lab File: BE090009.D
 Acq: 30 Jun 2015 8:54

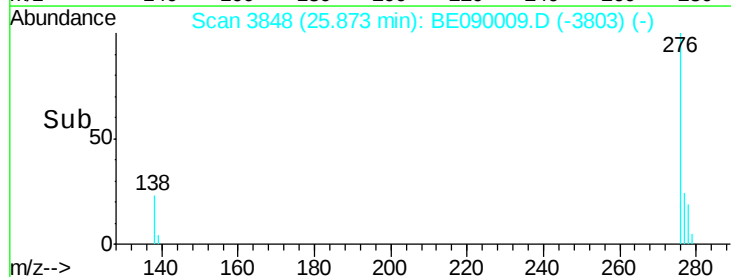
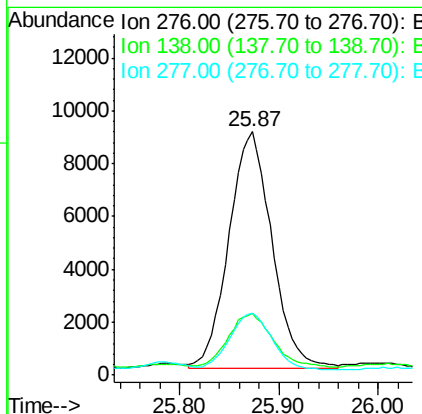
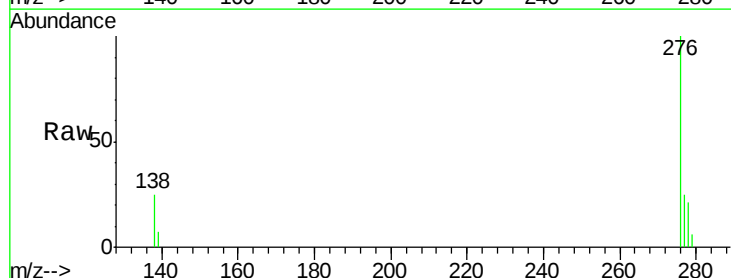
Instrument :
 BNA_E
 ClientSampleId :
 X1SS0520624-150625

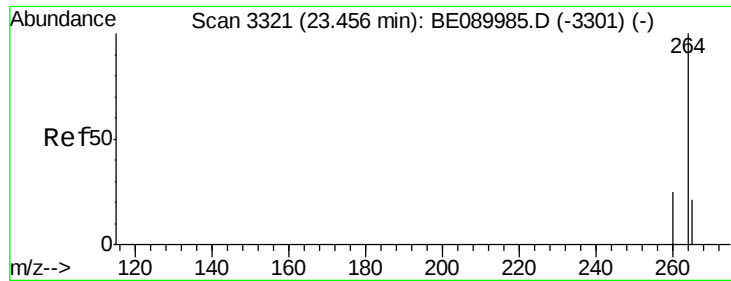
Tgt Ion: 149 Resp: 18845
 Ion Ratio Lower Upper
 149 100
 167 3.5 20.3 30.5#
 279 2.5 2.6 3.8#



#31
 Indeno(1,2,3-cd)pyrene
 Concen: 0.94 ng
 RT: 25.87 min Scan# 3848
 Delta R.T. 0.00 min
 Lab File: BE090009.D
 Acq: 30 Jun 2015 8:54

Tgt Ion: 276 Resp: 26955
 Ion Ratio Lower Upper
 276 100
 138 22.8 21.3 31.9
 277 23.8 19.7 29.5

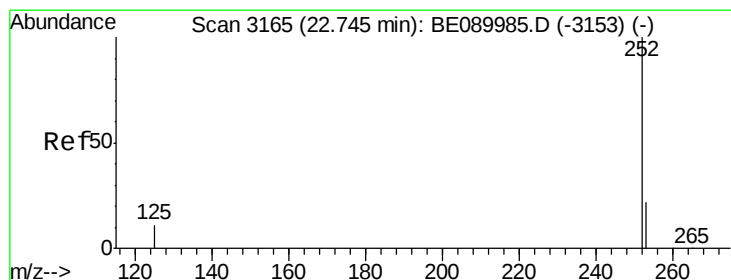
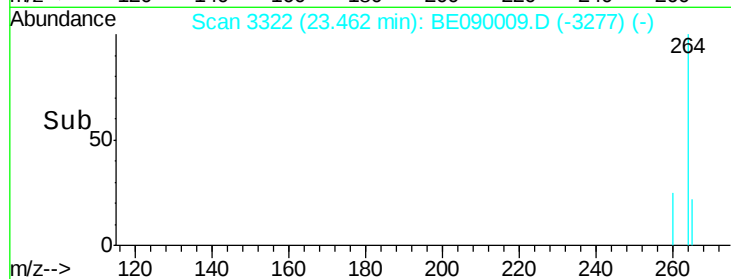
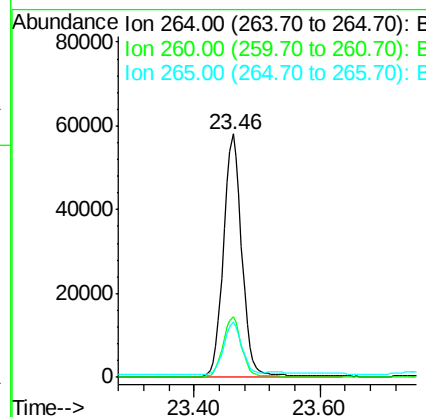
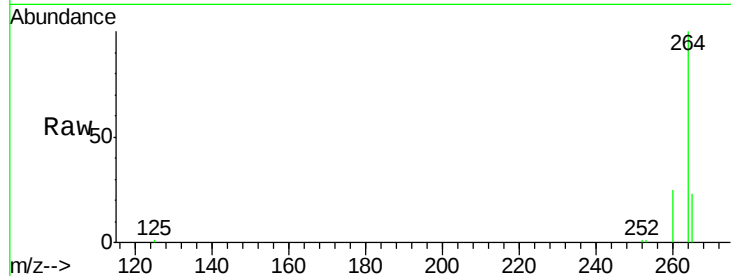




#32
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.46 min Scan# 3322
 Delta R.T. 0.01 min
 Lab File: BE090009.D
 Acq: 30 Jun 2015 8:54

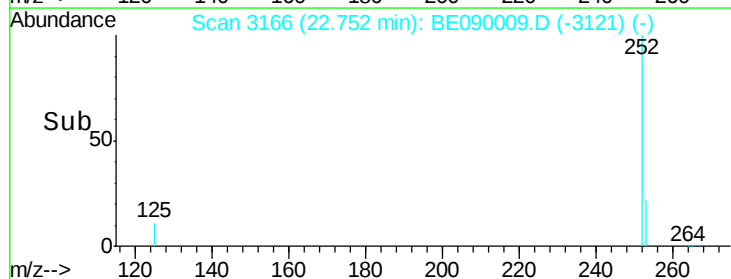
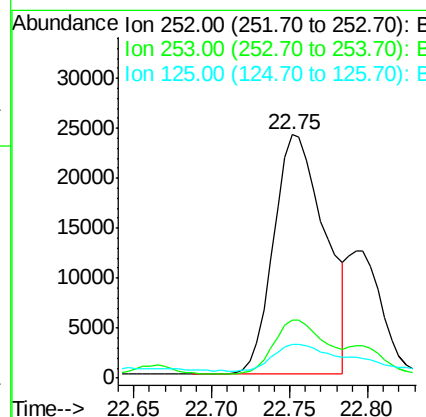
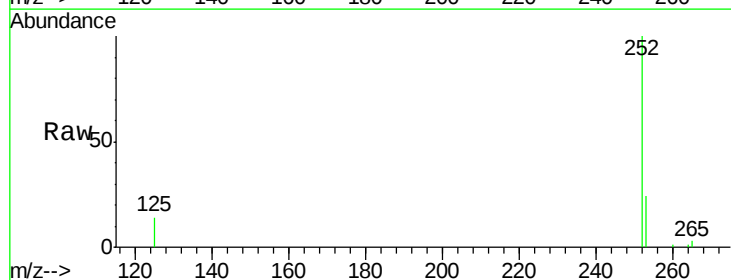
Instrument :
 BNA_E
 ClientSampleId :
 X1SS0520624-150625

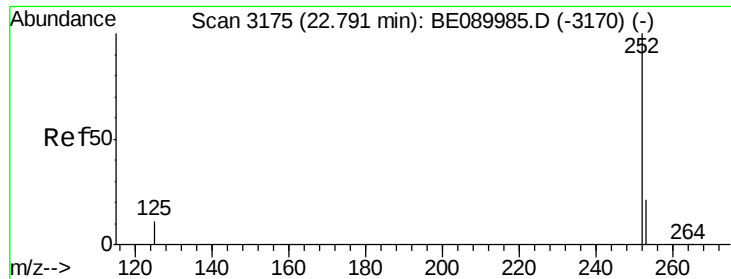
Tgt Ion: 264 Resp: 116708
 Ion Ratio Lower Upper
 264 100
 260 25.0 20.2 30.2
 265 22.6 17.1 25.7



#33
 Benzo(b)fluoranthene
 Concen: 2.13 ng
 RT: 22.75 min Scan# 3166
 Delta R.T. 0.01 min
 Lab File: BE090009.D
 Acq: 30 Jun 2015 8:54

Tgt Ion: 252 Resp: 54927
 Ion Ratio Lower Upper
 252 100
 253 23.9 17.8 26.8
 125 13.9 9.0 13.4#





#34

Benzo(k)fluoranthene

Concen: 1.91 ng

RT: 22.75 min Scan# 3166

Delta R.T. -0.04 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

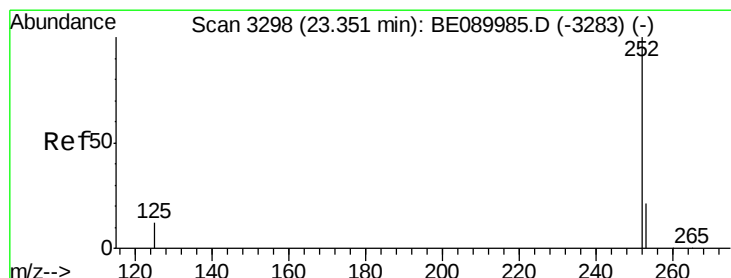
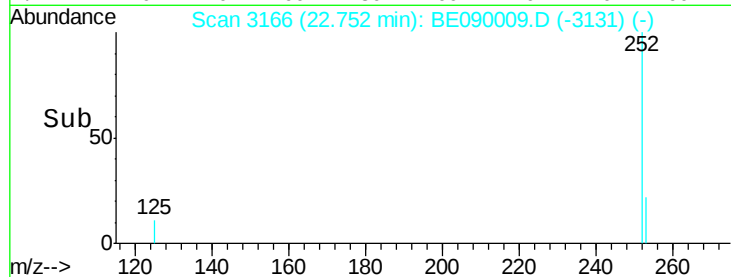
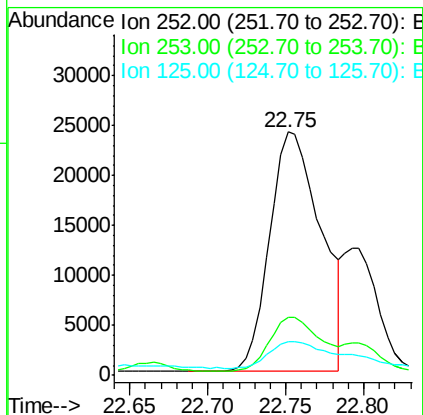
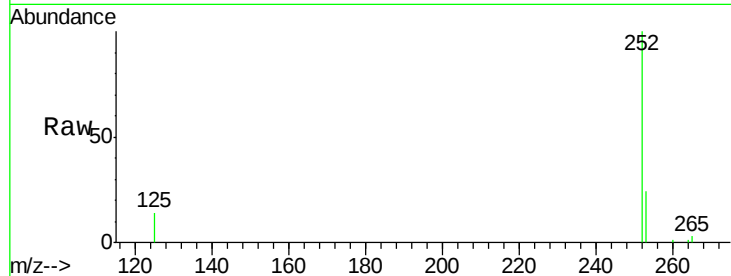
Instrument :

BNA_E

ClientSampleId :

X1SS0520624-150625

Tgt Ion:	252	Resp:	54927
Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.5	26.3
125	13.9	9.5	14.3



#35

Benzo(a)pyrene

Concen: 1.58 ng

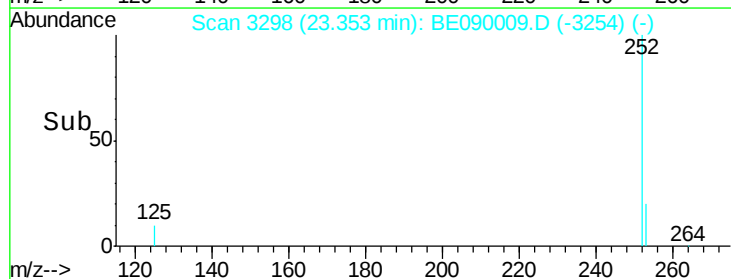
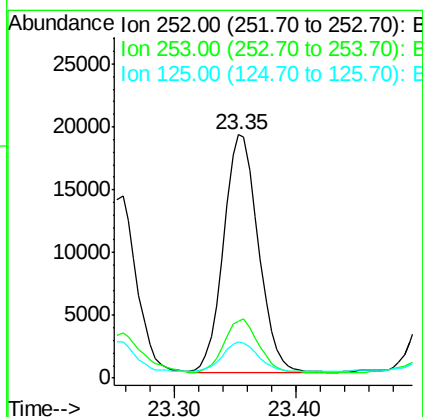
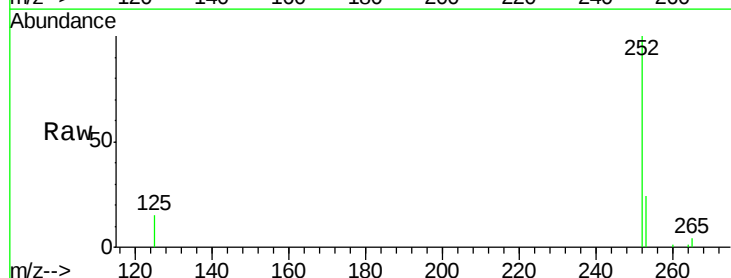
RT: 23.35 min Scan# 3298

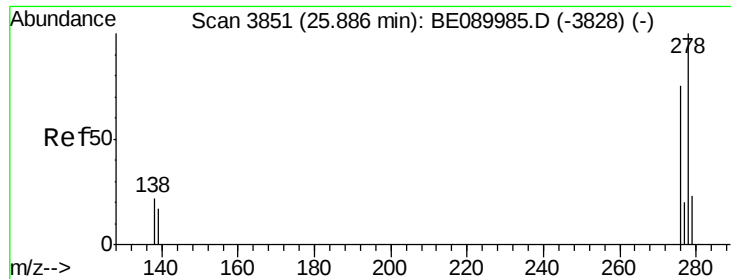
Delta R.T. 0.00 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

Tgt Ion:	252	Resp:	37642
Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.4	26.2
125	14.9	10.5	15.7





#36

Dibenzo(a,h)anthracene

Concen: 0.27 ng

RT: 25.89 min Scan# 3851

Delta R.T. 0.00 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

Instrument :

BNA_E

ClientSampleId :

X1SS0520624-150625

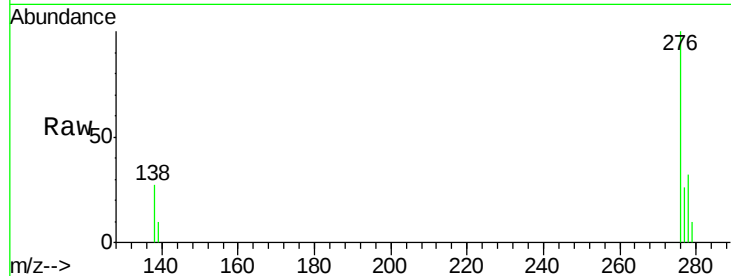
Tgt Ion: 278 Resp: 6675

Ion Ratio Lower Upper

278 100

139 30.0 14.4 21.6#

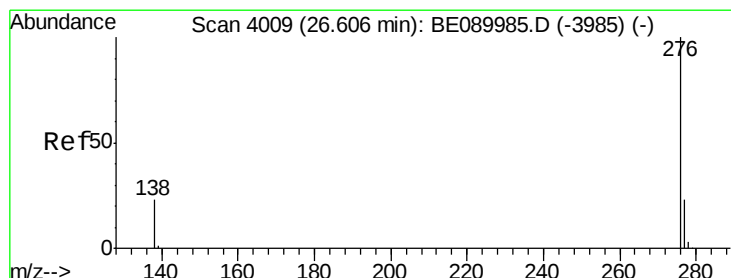
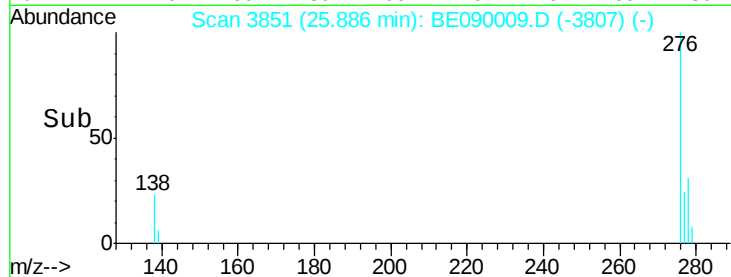
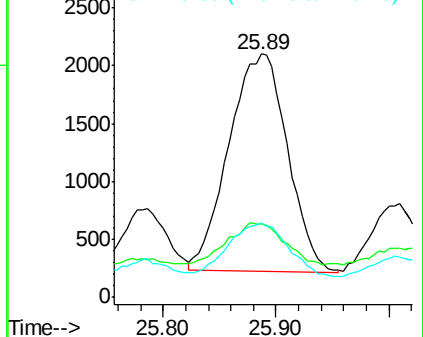
279 30.9 19.0 28.6#



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



#37

Benzo(g,h,i)perylene

Concen: 1.11 ng

RT: 26.62 min Scan# 4011

Delta R.T. 0.01 min

Lab File: BE090009.D

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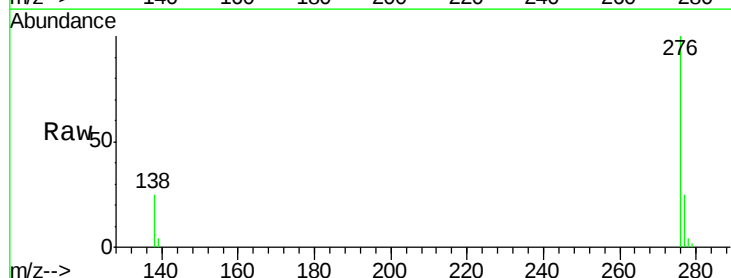
Tgt Ion: 276 Resp: 27544

Ion Ratio Lower Upper

276 100

277 24.9 18.8 28.2

138 25.4 18.6 27.8



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

