

Data Path : Z:\HPCHEM1\BNA E\DATA\BE081215\
 Data File : BE090494.D
 Acq On : 13 Aug 2015 7:24
 Operator : UM/IZ
 Sample : G3248-04
 Misc :
 ALS Vial : 58 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Aug 13 08:03:39 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE080515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 06 12:28:08 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.58	152	23623	5.00	ng	0.00
6) Naphthalene-d8	10.33	136	107993	5.00	ng	0.00
12) Acenaphthene-d10	14.19	164	64640	5.00	ng	0.00
18) Phenanthrene-d10	16.94	188	138139	5.00	ng	0.00
25) Chrysene-d12	21.10	240	155848	5.00	ng	0.00
32) Perylene-d12	23.40	264	154956	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.21	112	19440	5.48	ng	0.00
5) Phenol-d6	6.77	99	36515	4.85	ng	0.00
7) Nitrobenzene-d5	8.72	82	17492	2.11	ng	-0.01
13) 2,4,6-Tribromophenol	15.69	330	10079	5.86	ng	-0.02
14) 2-Fluorobiphenyl	12.81	172	37017	2.08	ng	0.00
27) Terphenyl-d14	19.55	244	39329	1.71	ng	-0.01

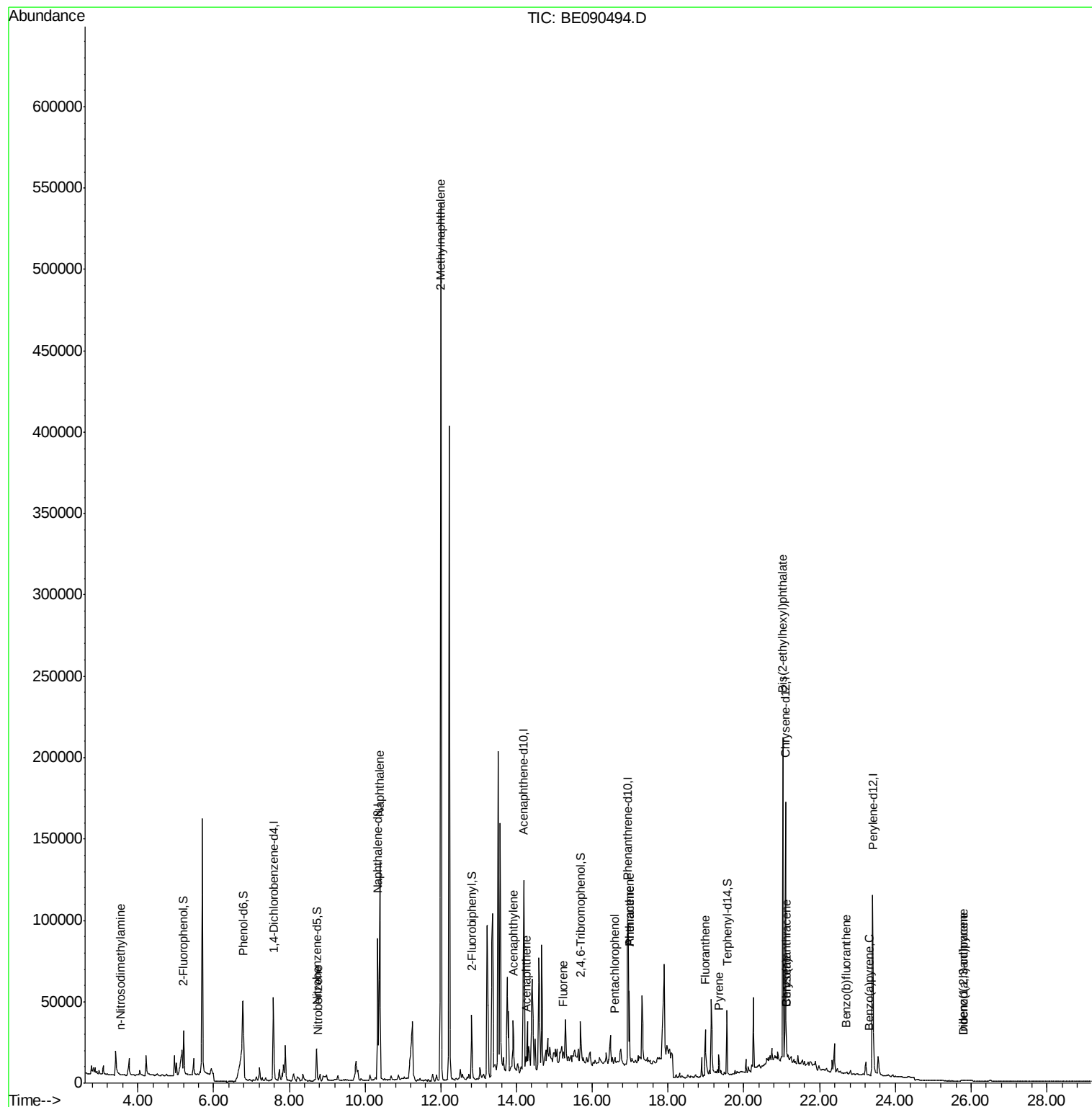
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.24	88	16	Below Cal	#	15
3) n-Nitrosodimethylamine	3.55	42	232	0.06	ng	# 10
8) Nitrobenzene	8.76	77	350	0.24	ng	# 39
9) Naphthalene	10.38	128	178887	7.50	ng	98
10) Hexachlorobutadiene	10.69	225	4	Below Cal	#	1
11) 2-Methylnaphthalene	12.00	142	371752	26.88	ng	99
15) Acenaphthylene	13.91	152	35390	0.34	ng	# 1
16) Acenaphthene	14.25	154	678	0.04	ng	# 1
17) Fluorene	15.24	166	1815	0.09	ng	# 68
21) Pentachlorophenol	16.60	266	1623	1.59	ng	95
22) Phenanthrene	16.98	178	46002	1.33	ng	98
23) Anthracene	16.98	178	45244	1.59	ng	99
24) Fluoranthene	18.98	202	24903	0.73	ng	# 82
26) Pyrene	19.34	202	11167	0.33	ng	97
28) Benzo(a)anthracene	21.14	228	3167	0.09	ng	# 31
29) Chrysene	21.14	228	3167	0.08	ng	# 35
30) Bis(2-ethylhexyl)phthalate	21.03	149	189724	10.56	ng	99
31) Indeno(1,2,3-cd)pyrene	25.79	276	878	0.27	ng	# 86
33) Benzo(b)fluoranthene	22.70	252	481	0.21	ng	# 1
35) Benzo(a)pyrene	23.30	252	340	0.24	ng	# 1
36) Dibenzo(a,h)anthracene	25.79	278	719	0.31	ng	# 1

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

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Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE080515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 06 12:28:08 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.58 min Scan# 844

Delta R.T. -0.01 min

Lab File: BE090494.D

Acq: 13 Aug 2015 7:24

Instrument :

BNA_E

ClientSampleId :

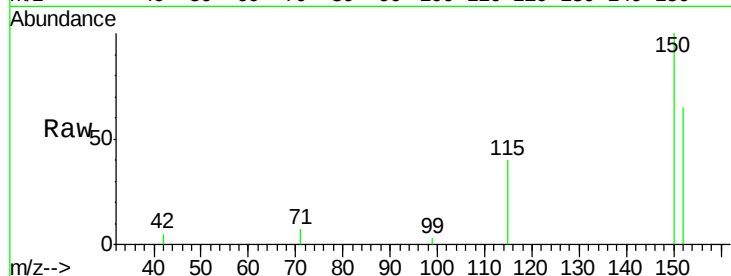
Tot Ion:152 Resp: 23623

Ion Ratio Lower Upper

152 100

150 154.5 123.0 184.4

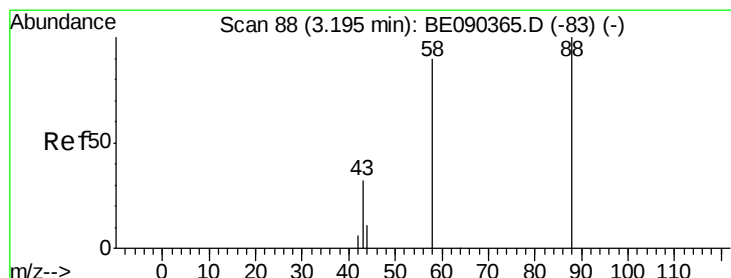
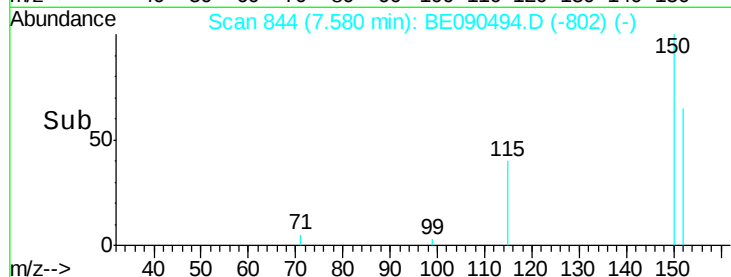
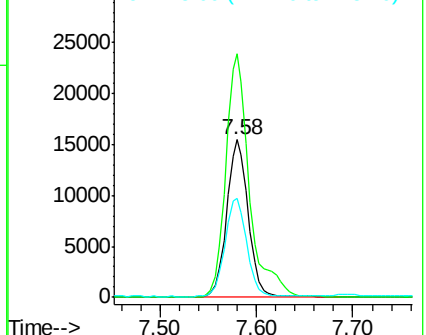
115 62.6 48.9 73.3



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: Below Cal

RT: 3.24 min Scan# 95

Delta R.T. 0.05 min

Lab File: BE090494.D

Acq: 13 Aug 2015 7:24

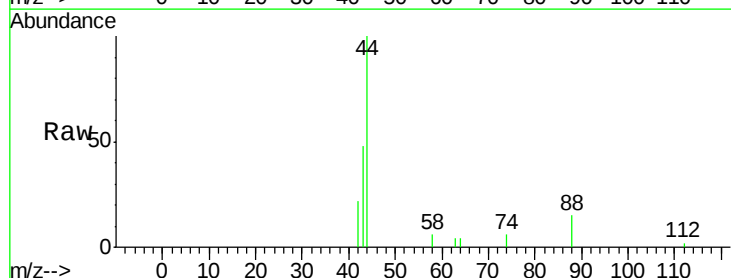
Tgt Ion: 88 Resp: 16

Ion Ratio Lower Upper

88 100

58 0.0 70.0 105.0#

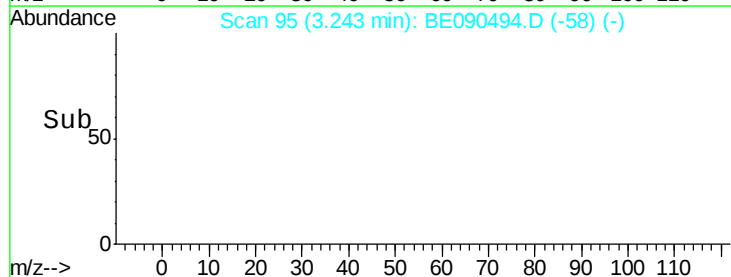
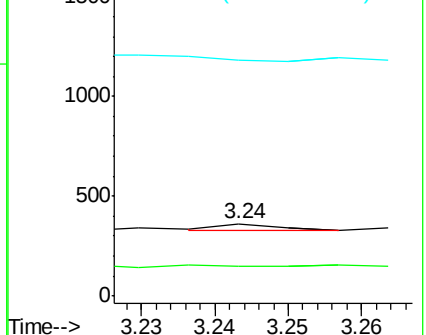
43 0.0 28.4 42.6#

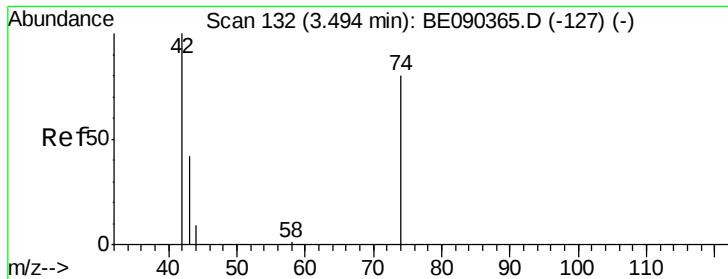


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



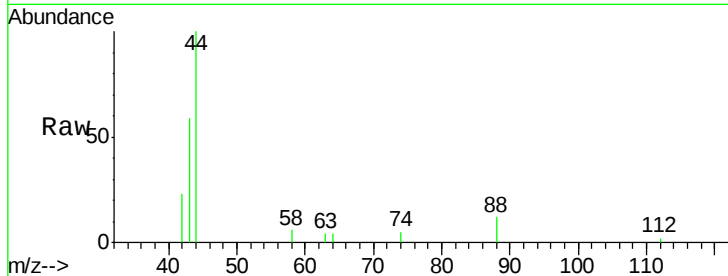


#3

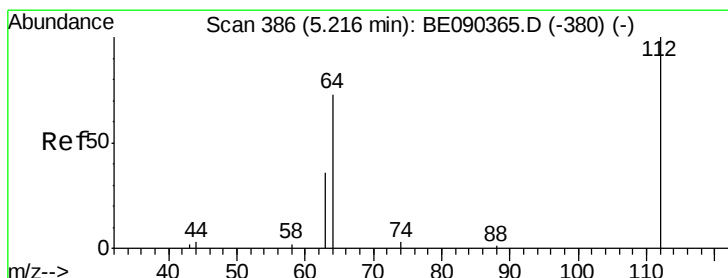
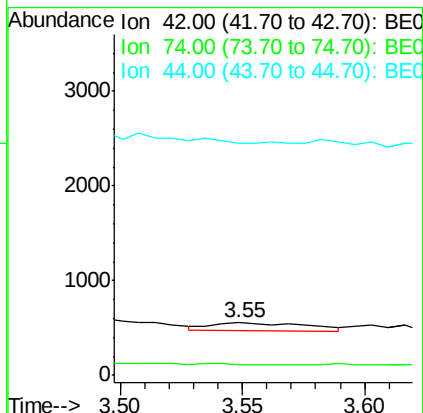
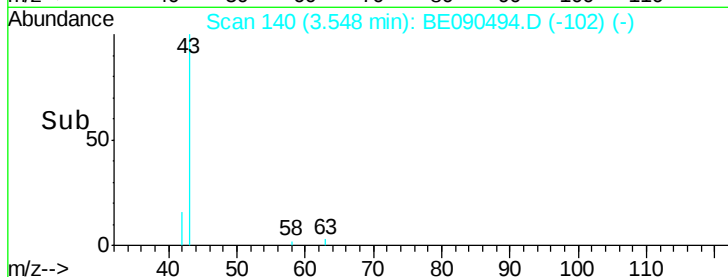
n-Nitrosodimethylamine
 Concen: 0.06 ng
 RT: 3.55 min Scan# 140
 Delta R.T. 0.05 min
 Lab File: BE090494.D
 Acq: 13 Aug 2015 7:24

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
42	100		
74	0.0	75.2	112.8#
44	0.0	8.7	13.1#



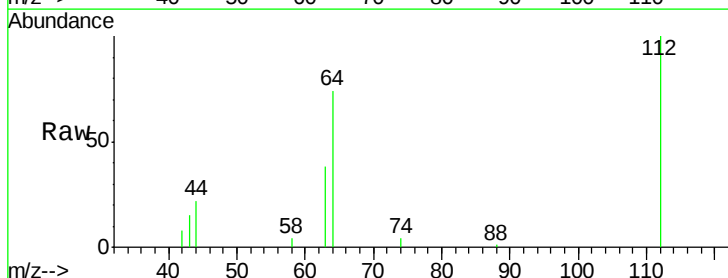
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



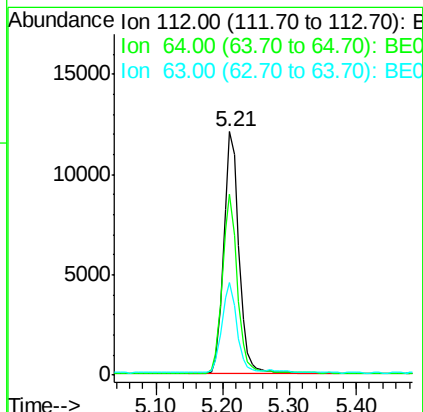
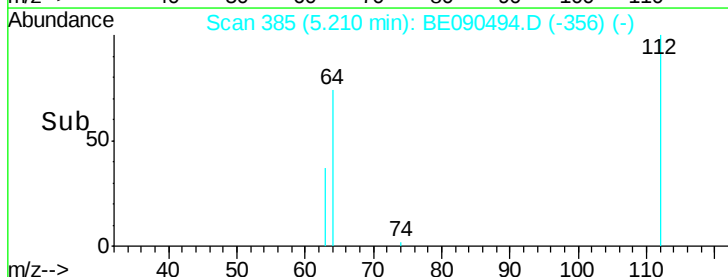
#4

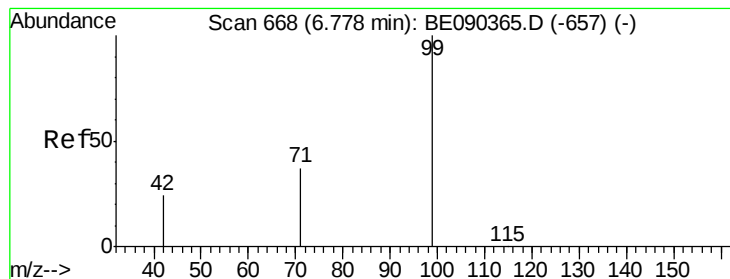
2-Fluorophenol
 Concen: 5.48 ng
 RT: 5.21 min Scan# 385
 Delta R.T. -0.01 min
 Lab File: BE090494.D
 Acq: 13 Aug 2015 7:24

Tgt Ion	Ratio	Lower	Upper
112	100		
64	73.0	37.1	55.7#
63	35.7	19.5	29.3#



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: 4.85 ng

RT: 6.77 min Scan# 666

Delta R.T. -0.01 min

Lab File: BE090494.D

Acq: 13 Aug 2015 7:24

Instrument :

BNA_E

ClientSampleId :

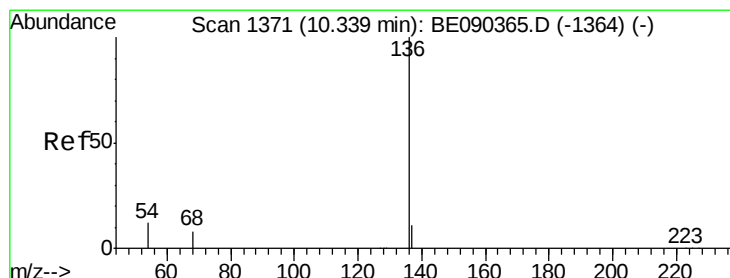
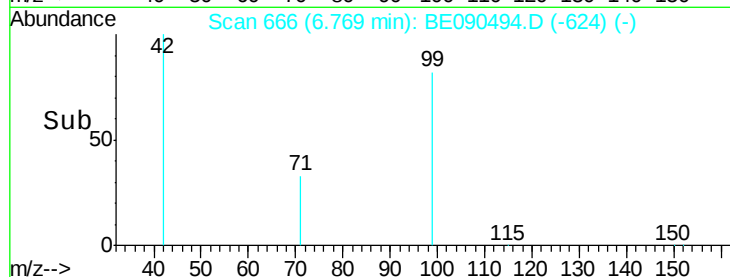
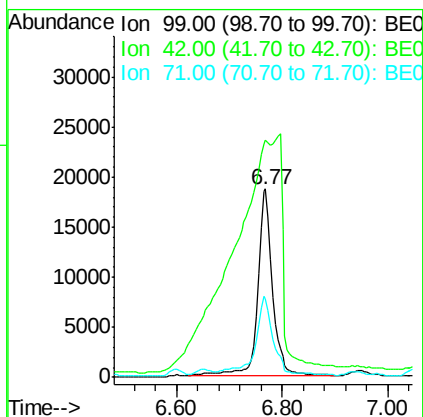
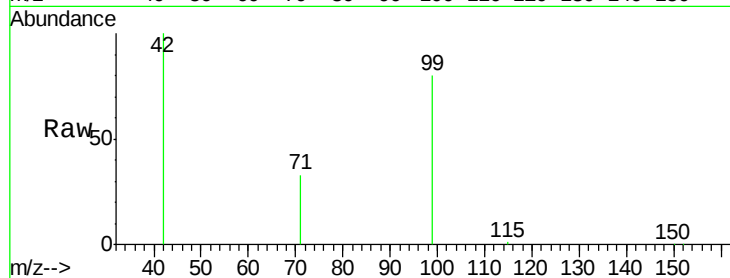
Tot Ion: 99 Resp: 36515

Ion Ratio Lower Upper

99 100

42 317.7 18.2 27.4#

71 48.0 27.4 41.0#



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.33 min Scan# 1370

Delta R.T. -0.01 min

Lab File: BE090494.D

Acq: 13 Aug 2015 7:24

Tgt Ion: 136 Resp: 107993

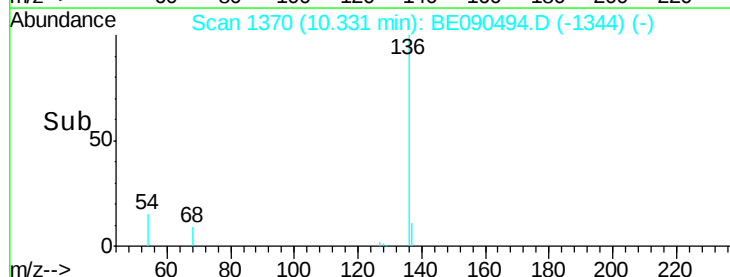
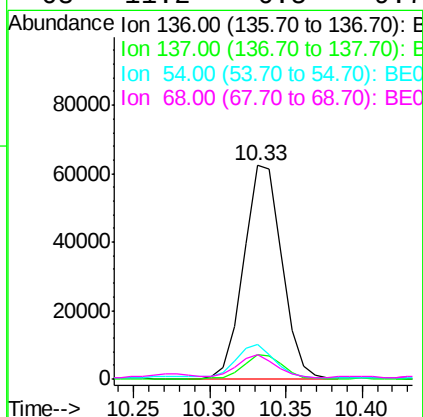
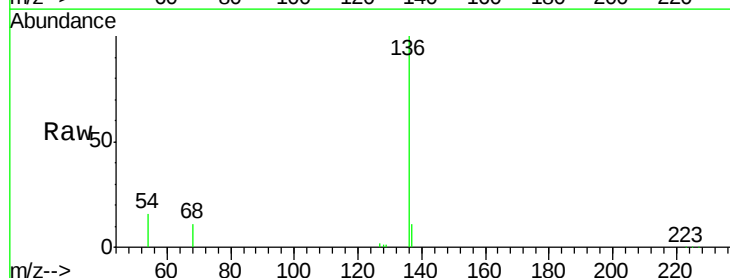
Ion Ratio Lower Upper

136 100

137 11.1 8.7 13.1

54 16.2 9.4 14.0#

68 11.2 6.5 9.7#





#7

Nitrobenzene-d5

Concen: 2.11 ng

RT: 8.72 min Scan# 1091

Delta R.T. -0.01 min

Lab File: BE090494.D

Acq: 13 Aug 2015 7:24

Instrument :

BNA_E

ClientSampled :

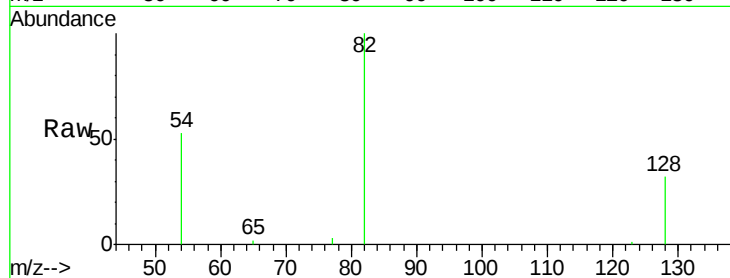
Tot Ion: 82 Resp: 17492

Ion Ratio Lower Upper

82 100

128 32.4 25.0 37.6

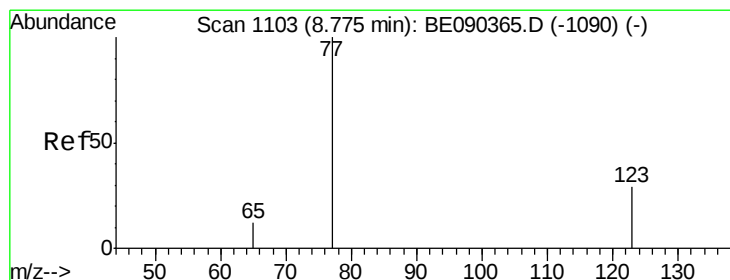
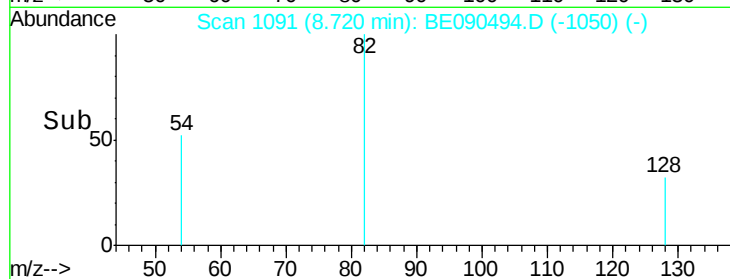
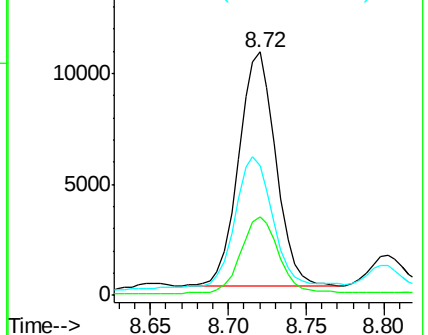
54 53.4 48.8 73.2



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



#8

Nitrobenzene

Concen: 0.24 ng

RT: 8.76 min Scan# 1100

Delta R.T. -0.01 min

Lab File: BE090494.D

Acq: 13 Aug 2015 7:24

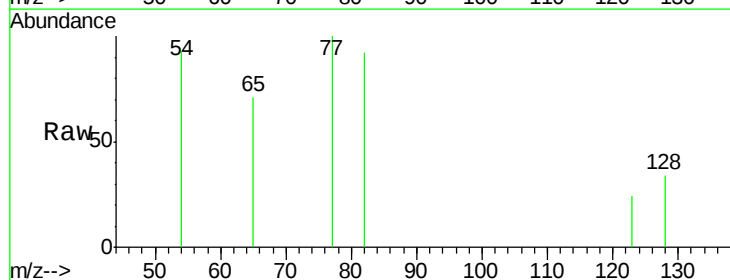
Tgt Ion: 77 Resp: 350

Ion Ratio Lower Upper

77 100

123 22.6 25.1 37.7#

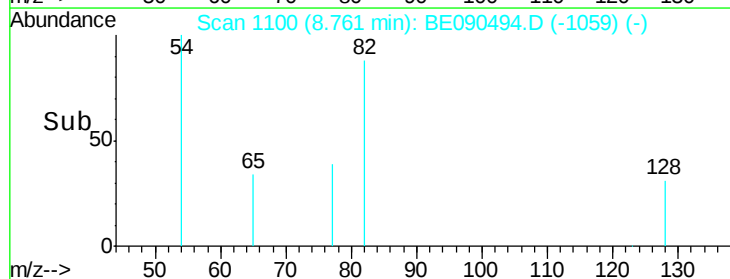
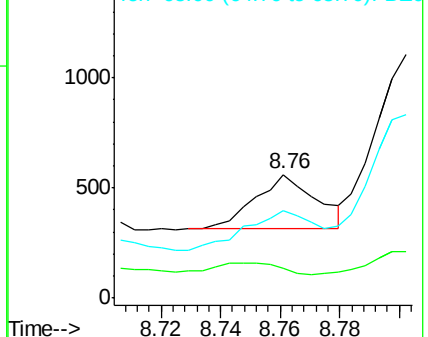
65 82.6 9.3 13.9#



Abundance Ion 77.00 (76.70 to 77.70): BE0

Ion 123.00 (122.70 to 123.70): BE0

Ion 65.00 (64.70 to 65.70): BE0





#9

Naphthalene

Concen: 7.50 ng

RT: 10.38 min Scan# 1377

Delta R.T. -0.01 min

Lab File: BE090494.D

Acq: 13 Aug 2015 7:24

Instrument :

BNA_E

ClientSampled :

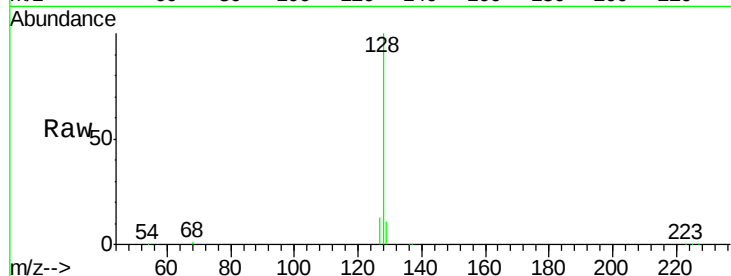
Tot Ion:128 Resp: 178887

Ion Ratio Lower Upper

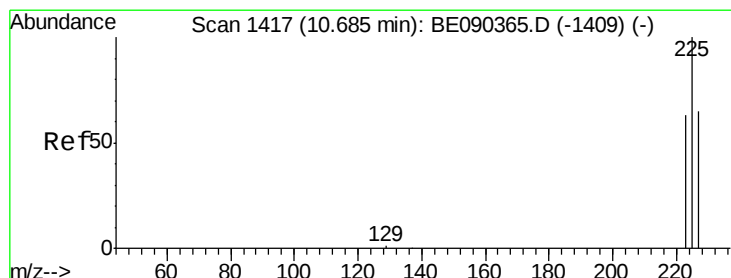
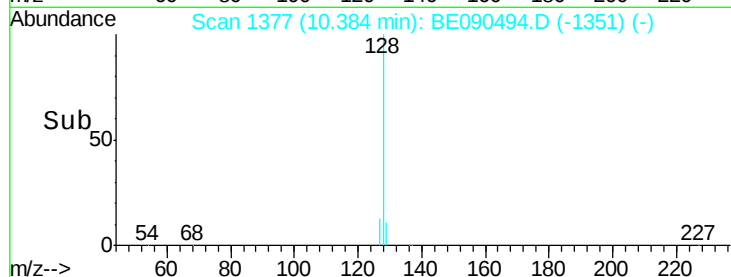
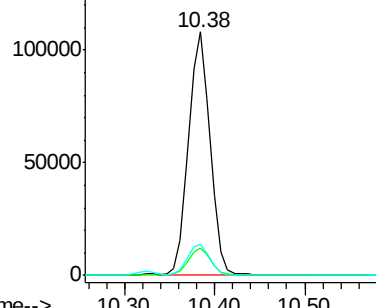
128 100

129 11.3 9.8 14.6

127 13.0 10.6 16.0



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



#10

Hexachlorobutadiene

Concen: Below Cal

RT: 10.69 min Scan# 1418

Delta R.T. 0.01 min

Lab File: BE090494.D

Acq: 13 Aug 2015 7:24

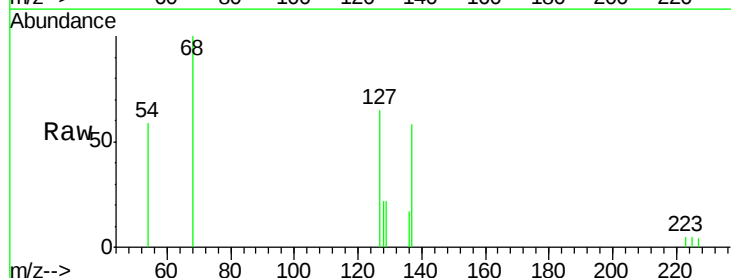
Tgt Ion:225 Resp: 4

Ion Ratio Lower Upper

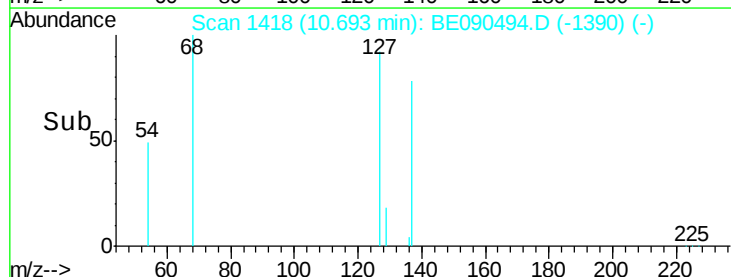
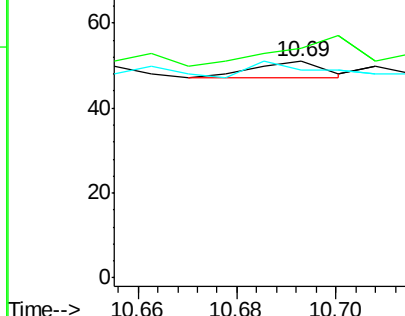
225 100

223 250.0 50.6 75.8#

227 150.0 50.7 76.1#



Abundance Ion 225.00 (224.70 to 225.70): E
Ion 223.00 (222.70 to 223.70): E
Ion 227.00 (226.70 to 227.70): E

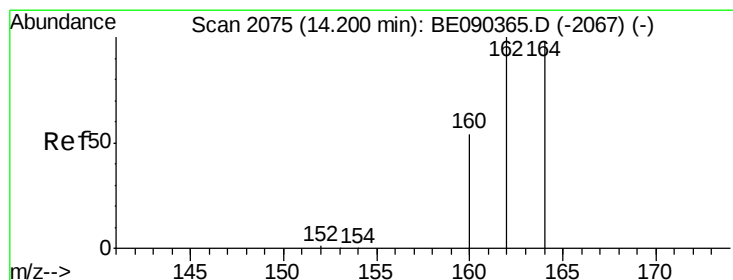
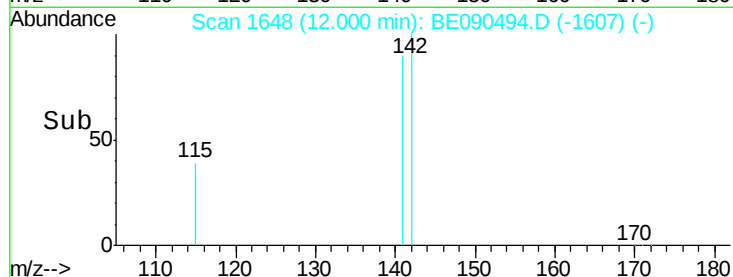
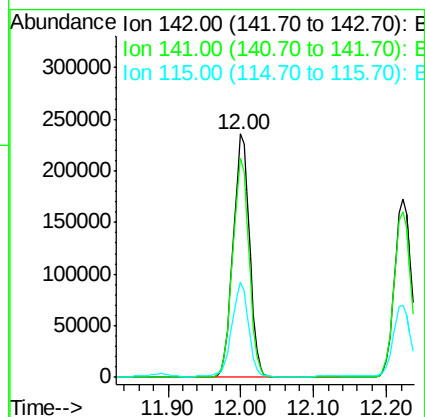
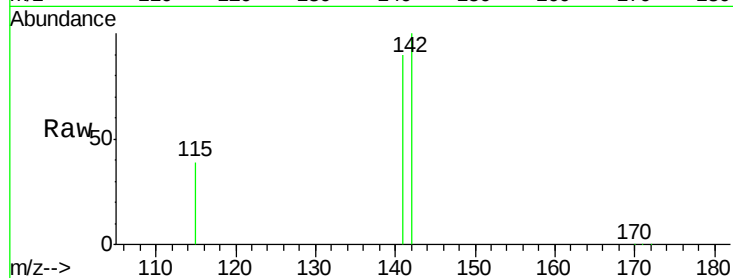




#11
2-Methylnaphthalene
Concen: 26.88 ng
RT: 12.00 min Scan# 1648
Delta R.T. -0.01 min
Lab File: BE090494.D
Acq: 13 Aug 2015 7:24

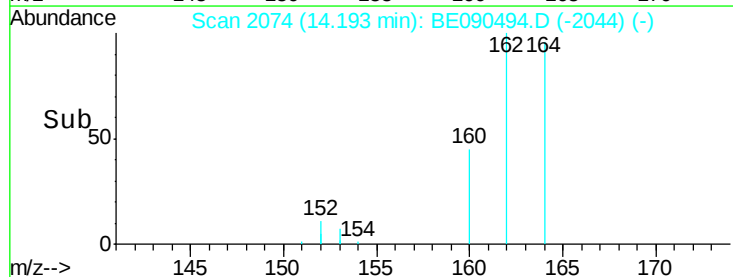
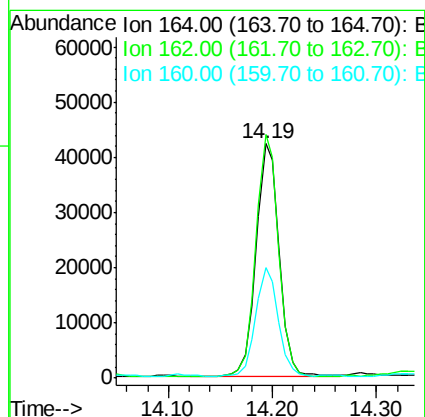
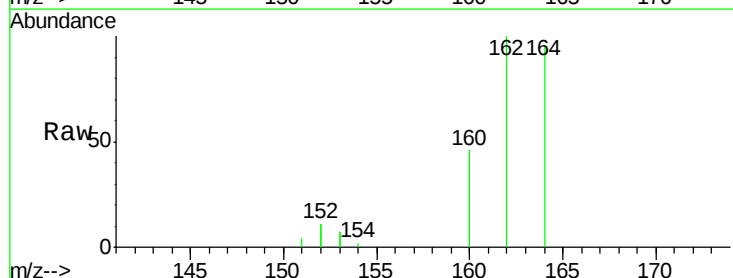
Instrument :
BNA_E
ClientSampleId :

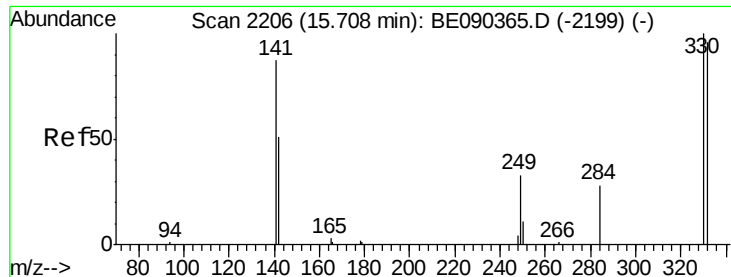
Tot Ion:142 Resp: 371752
Ion Ratio Lower Upper
142 100
141 90.1 72.6 109.0
115 39.2 31.6 47.4



#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.19 min Scan# 2074
Delta R.T. -0.01 min
Lab File: BE090494.D
Acq: 13 Aug 2015 7:24

Tgt Ion:164 Resp: 64640
Ion Ratio Lower Upper
164 100
162 104.0 81.8 122.8
160 47.4 44.2 66.4

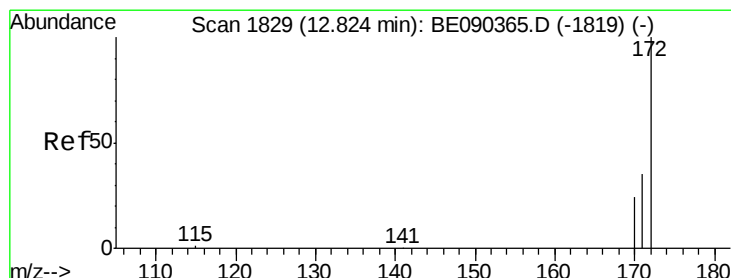
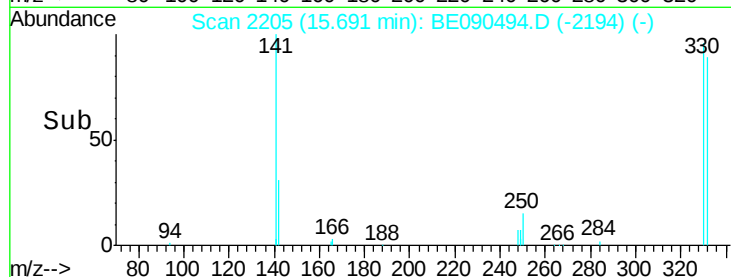
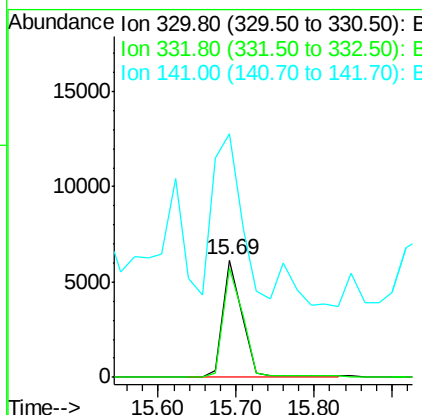
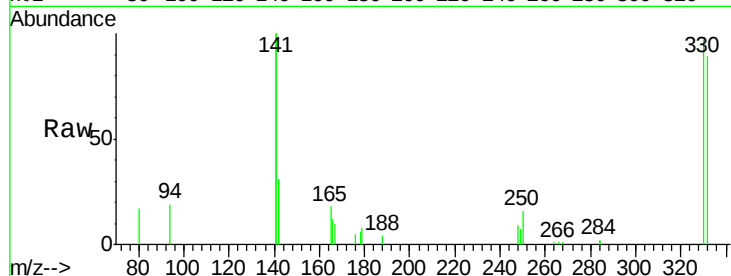




#13
 2,4,6-Tribromophenol
 Concen: 5.86 ng
 RT: 15.69 min Scan# 2205
 Delta R.T. -0.02 min
 Lab File: BE090494.D
 Acq: 13 Aug 2015 7:24

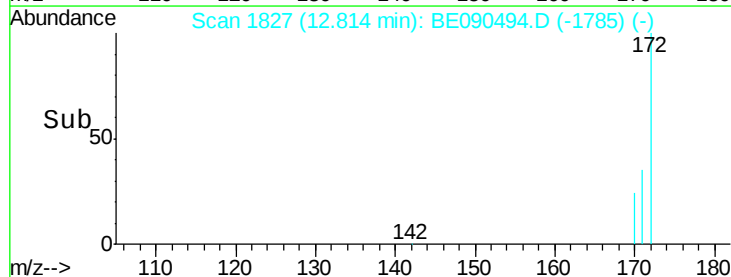
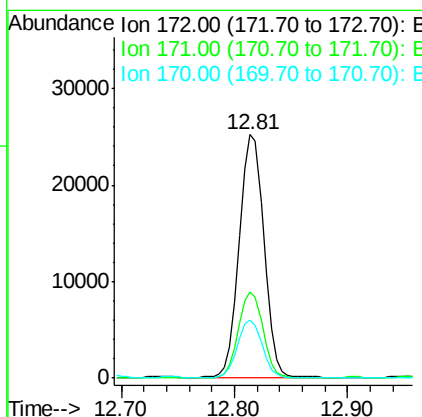
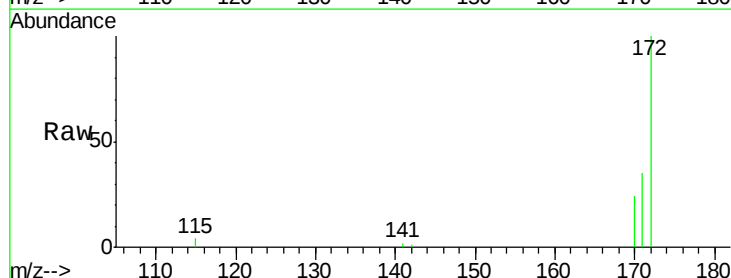
Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:330 Resp: 10079
 Ion Ratio Lower Upper
 330 100
 332 96.0 75.8 113.6
 141 212.2 114.4 171.6#



#14
 2-Fluorobiphenyl
 Concen: 2.08 ng
 RT: 12.81 min Scan# 1827
 Delta R.T. -0.01 min
 Lab File: BE090494.D
 Acq: 13 Aug 2015 7:24

Tgt Ion:172 Resp: 37017
 Ion Ratio Lower Upper
 172 100
 171 35.4 28.5 42.7
 170 24.0 19.8 29.8





#15

Acenaphthylene

Concen: 0.34 ng

RT: 13.91 min Scan# 2031

Delta R.T. -0.00 min

Lab File: BE090494.D

Acq: 13 Aug 2015 7:24

Instrument :

BNA_E

ClientSampleId :

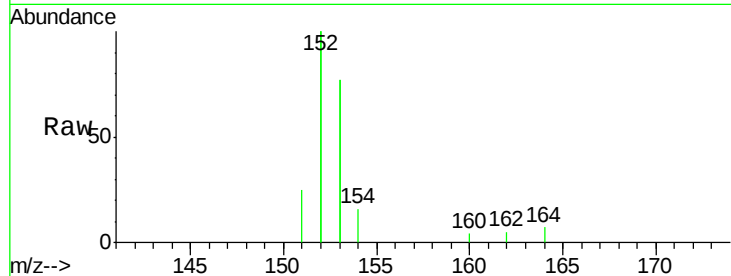
Tot Ion:152 Resp: 35390

Ion Ratio Lower Upper

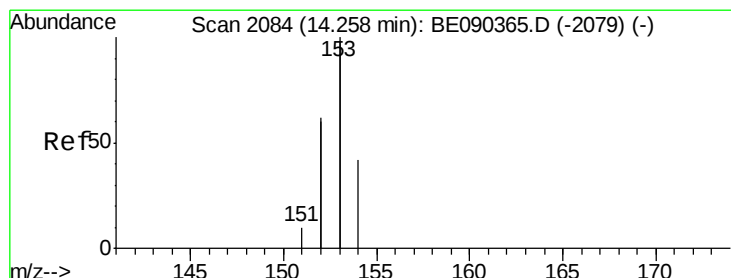
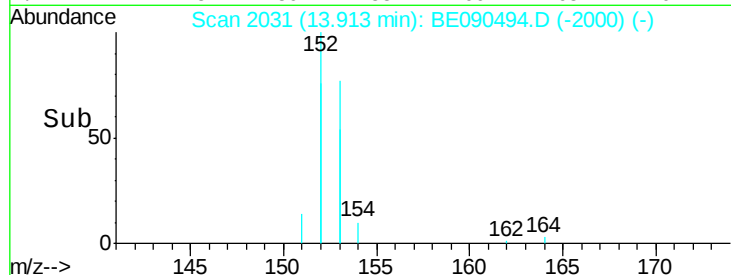
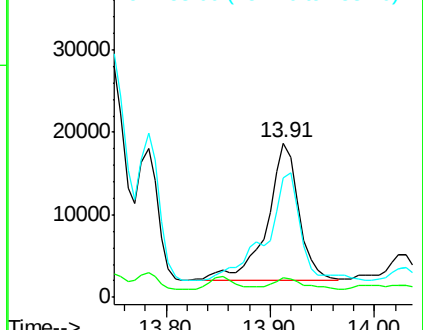
152 100

151 8.4 3.8 5.8#

153 81.0 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



#16

Acenaphthene

Concen: 0.04 ng

RT: 14.25 min Scan# 2083

Delta R.T. -0.01 min

Lab File: BE090494.D

Acq: 13 Aug 2015 7:24

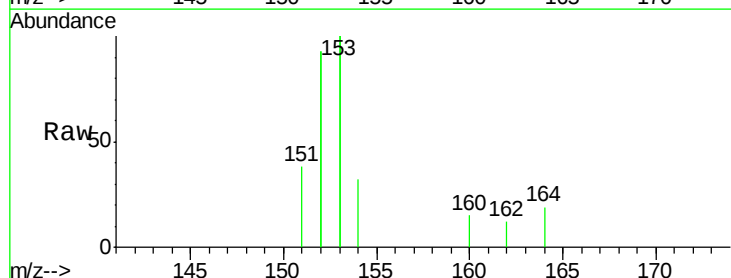
Tgt Ion:154 Resp: 678

Ion Ratio Lower Upper

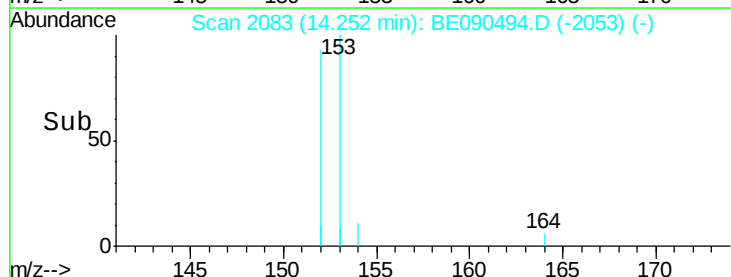
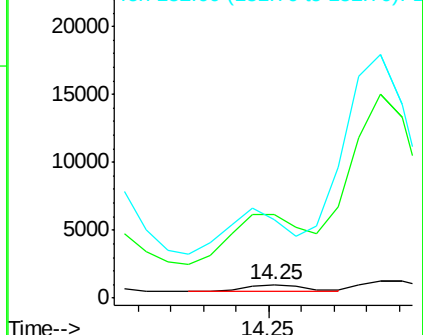
154 100

153 896.6 376.2 564.2#

152 597.8 235.0 352.4#



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

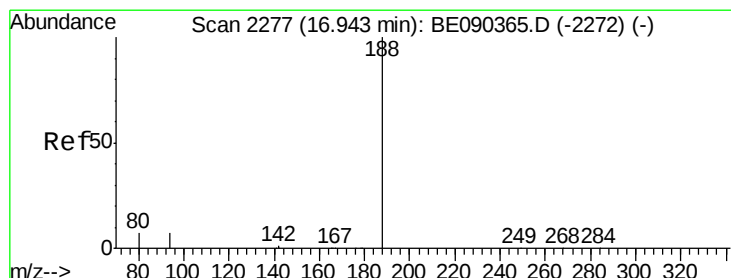
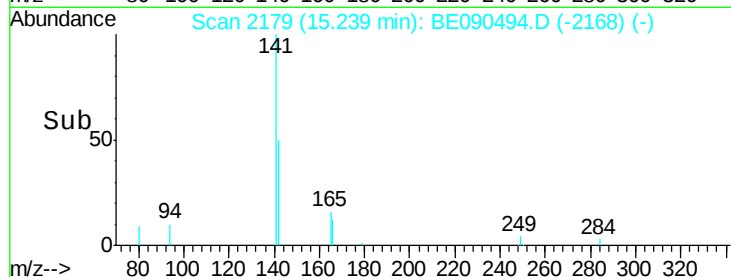
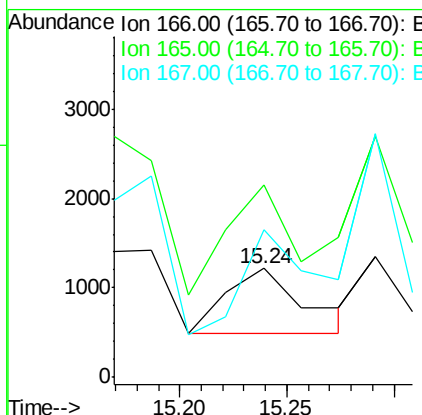
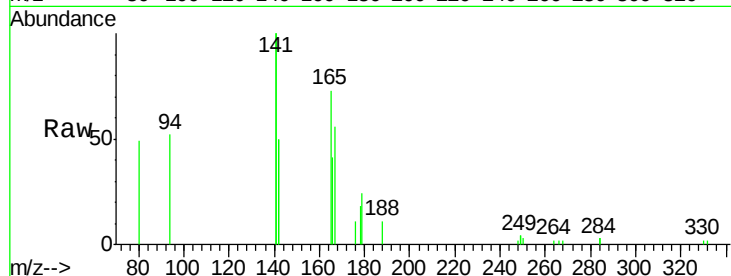




#17
Fluorene
 Concen: 0.09 ng
 RT: 15.24 min Scan# 2179
 Delta R.T. -0.02 min
 Lab File: BE090494.D
 Acq: 13 Aug 2015 7:24

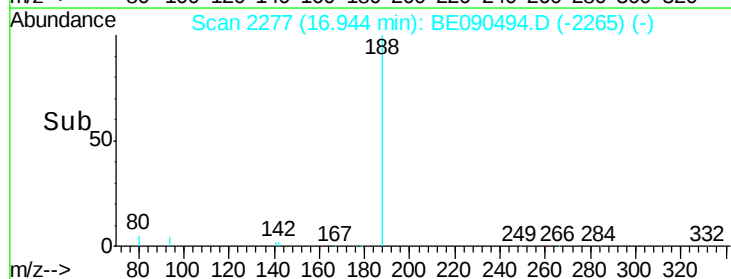
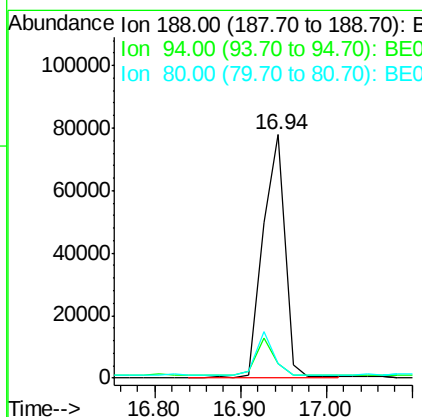
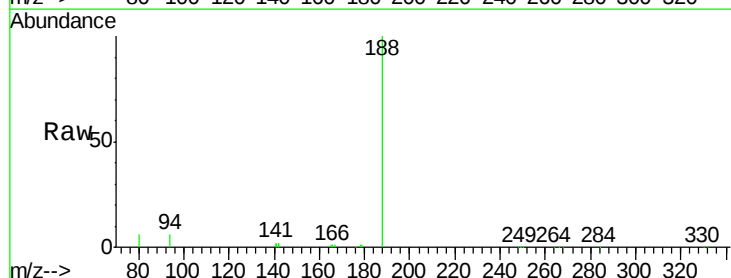
Instrument :
 BNA_E
 ClientSampled :

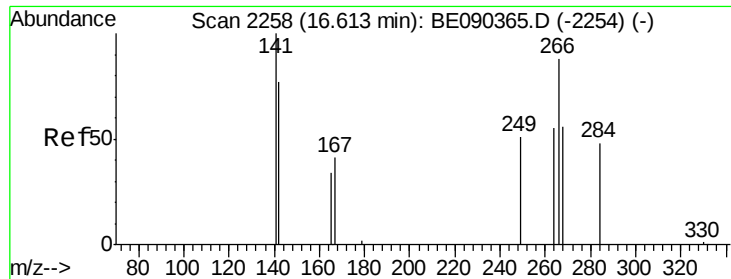
Tot Ion:166 Resp: 1815
 Ion Ratio Lower Upper
 166 100
 165 133.6 81.5 122.3#
 167 0.0 11.4 17.0#



#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 16.94 min Scan# 2277
 Delta R.T. 0.00 min
 Lab File: BE090494.D
 Acq: 13 Aug 2015 7:24

Tgt Ion:188 Resp: 138139
 Ion Ratio Lower Upper
 188 100
 94 5.8 5.7 8.5
 80 5.7 5.8 8.8#

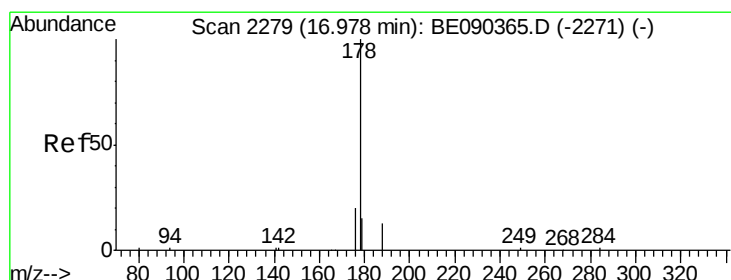
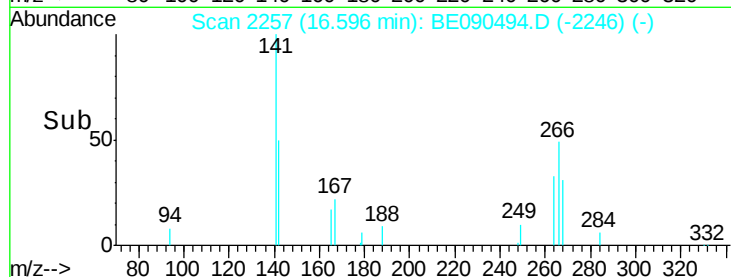
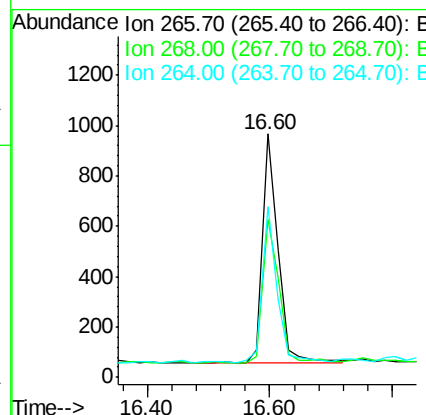
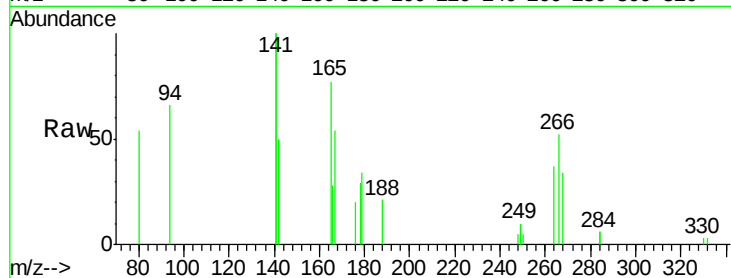




#21
 Pentachlorophenol
 Concen: 1.59 ng
 RT: 16.60 min Scan# 2257
 Delta R.T. -0.02 min
 Lab File: BE090494.D
 Acq: 13 Aug 2015 7:24

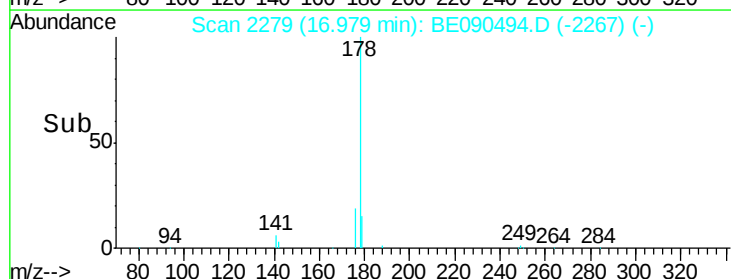
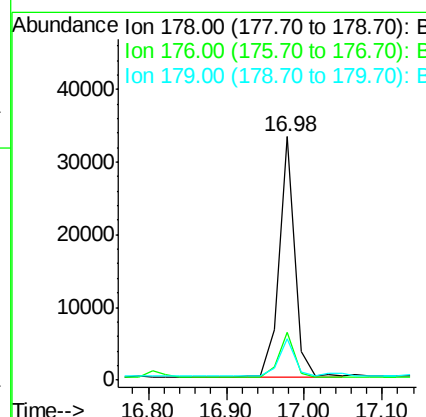
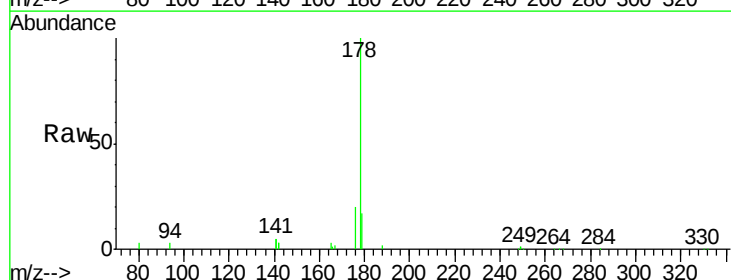
Instrument :
 BNA_E
 ClientSampled :

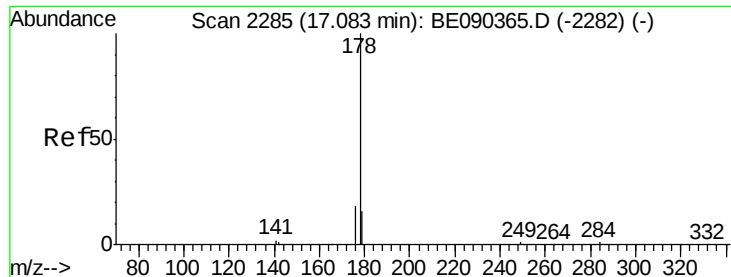
Tot Ion:266 Resp: 1623
 Ion Ratio Lower Upper
 266 100
 268 64.9 58.5 87.7
 264 70.2 56.0 84.0



#22
 Phenanthrene
 Concen: 1.33 ng
 RT: 16.98 min Scan# 2279
 Delta R.T. 0.00 min
 Lab File: BE090494.D
 Acq: 13 Aug 2015 7:24

Tgt Ion:178 Resp: 46002
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.4 23.2
 179 16.5 12.5 18.7





#23

Anthracene

Concen: 1.59 ng

RT: 16.98 min Scan# 2279

Delta R.T. -0.10 min

Lab File: BE090494.D

Acq: 13 Aug 2015 7:24

Instrument :

BNA_E

ClientSampleId :

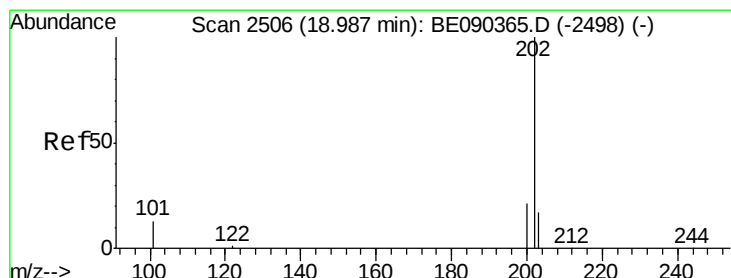
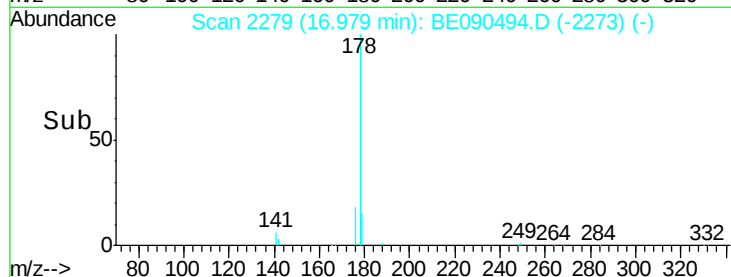
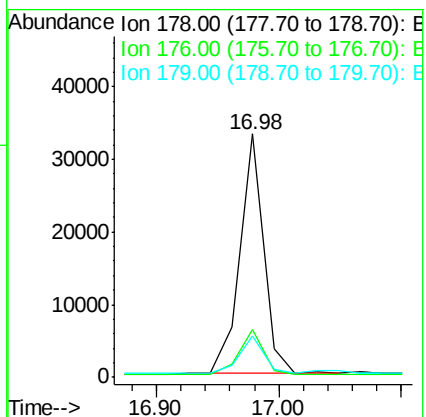
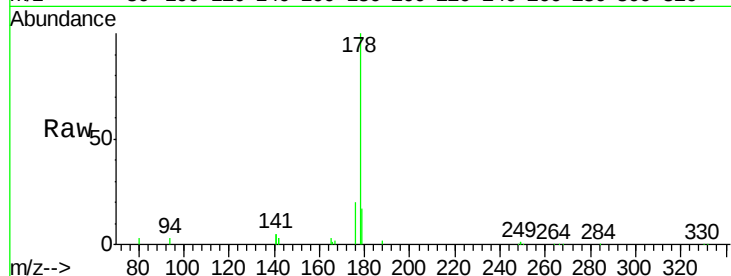
Tot Ion:178 Resp: 45244

Ion Ratio Lower Upper

178 100

176 18.9 14.9 22.3

179 15.9 12.2 18.4



#24

Fluoranthene

Concen: 0.73 ng

RT: 18.98 min Scan# 2505

Delta R.T. -0.01 min

Lab File: BE090494.D

Acq: 13 Aug 2015 7:24

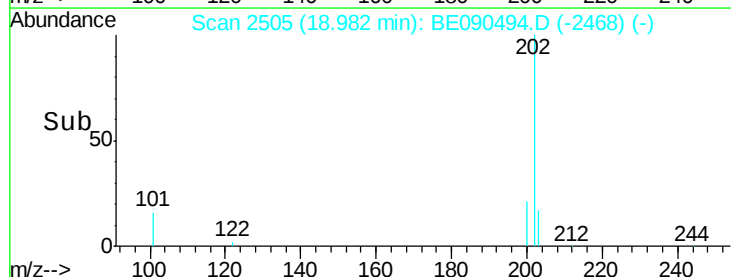
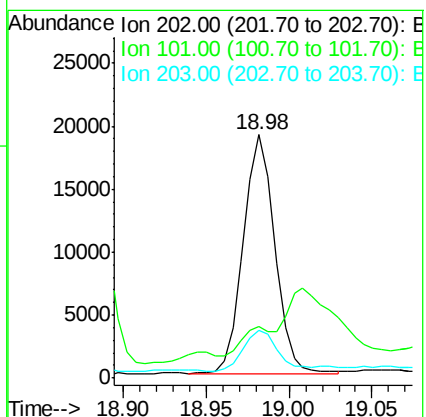
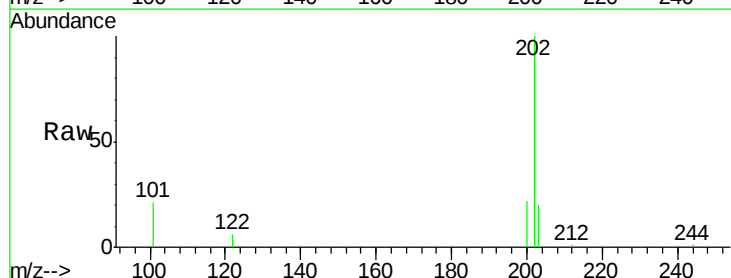
Tgt Ion:202 Resp: 24903

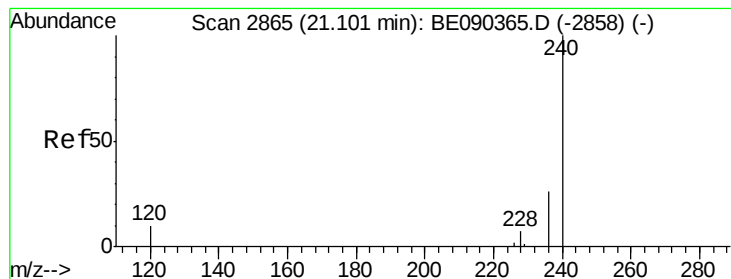
Ion Ratio Lower Upper

202 100

101 0.0 10.3 15.5#

203 20.1 13.7 20.5





#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.10 min Scan# 2865

Delta R.T. 0.00 min

Lab File: BE090494.D

Acq: 13 Aug 2015 7:24

Instrument :

BNA_E

ClientSampleId :

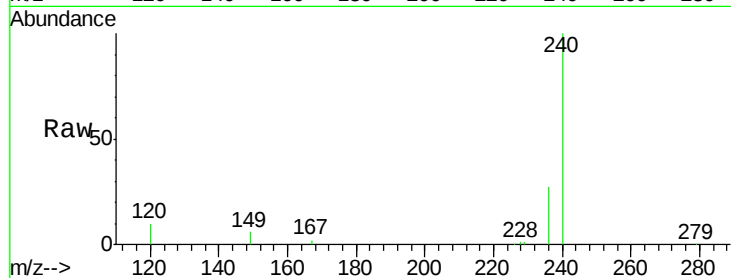
Tot Ion:240 Resp: 155848

Ion Ratio Lower Upper

240 100

120 10.1 8.3 12.5

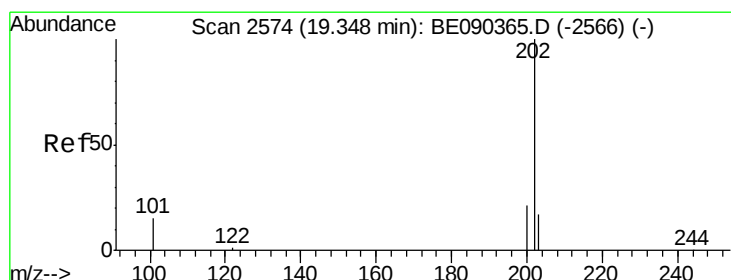
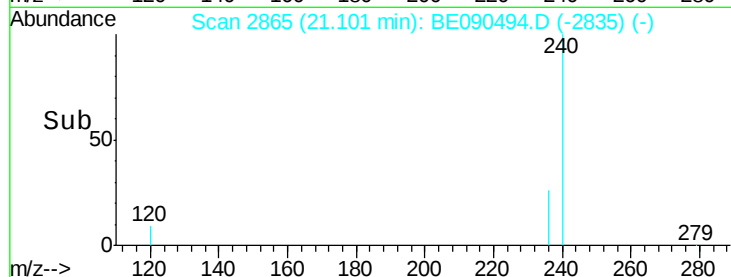
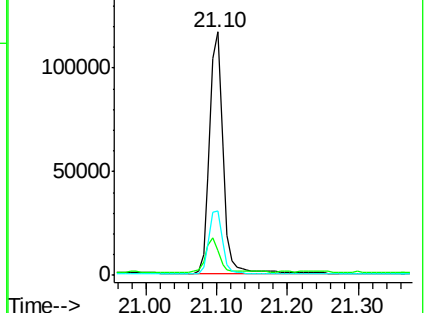
236 26.7 21.0 31.4



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



#26

Pyrene

Concen: 0.33 ng

RT: 19.34 min Scan# 2573

Delta R.T. -0.01 min

Lab File: BE090494.D

Acq: 13 Aug 2015 7:24

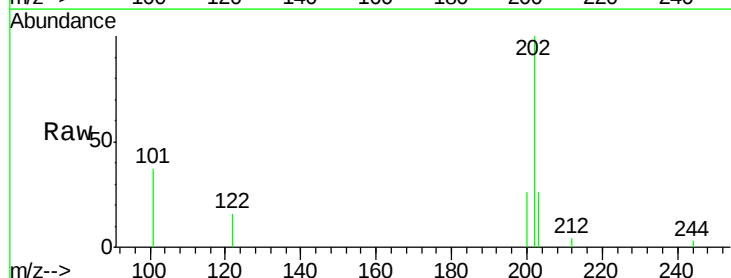
Tgt Ion:202 Resp: 11167

Ion Ratio Lower Upper

202 100

200 20.4 16.7 25.1

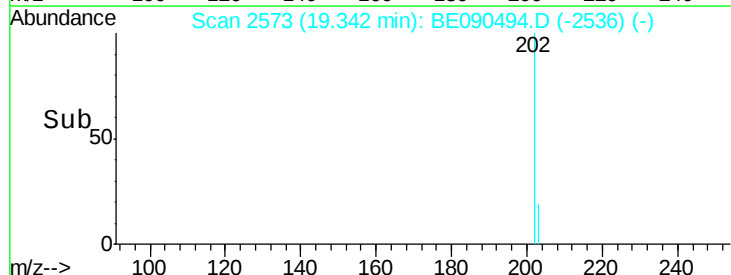
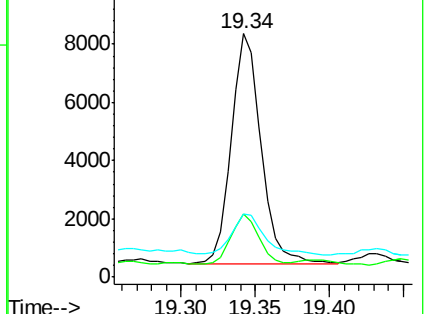
203 20.1 13.8 20.8

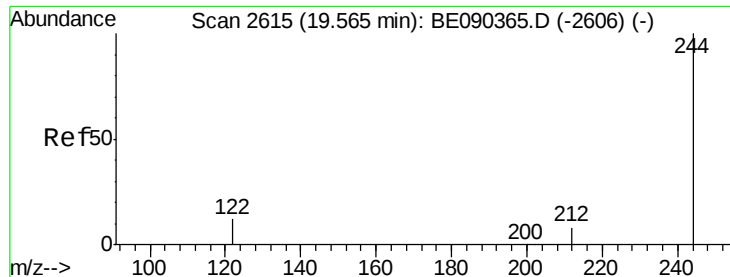


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

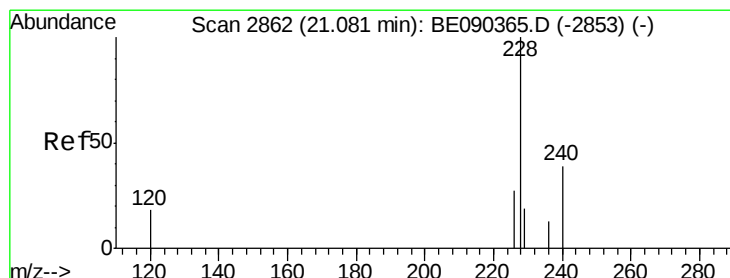
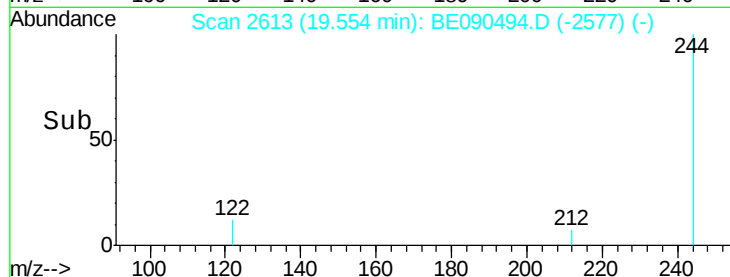
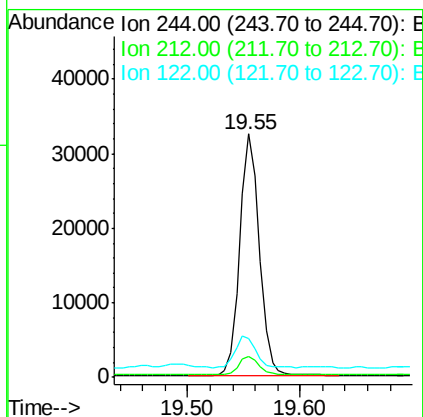
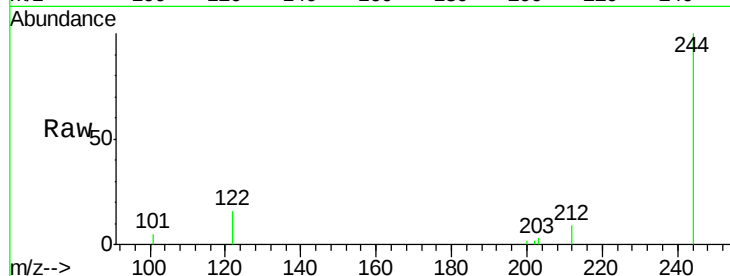




#27
 Terphenyl-d14
 Concen: 1.71 ng
 RT: 19.55 min Scan# 2613
 Delta R.T. -0.01 min
 Lab File: BE090494.D
 Acq: 13 Aug 2015 7:24

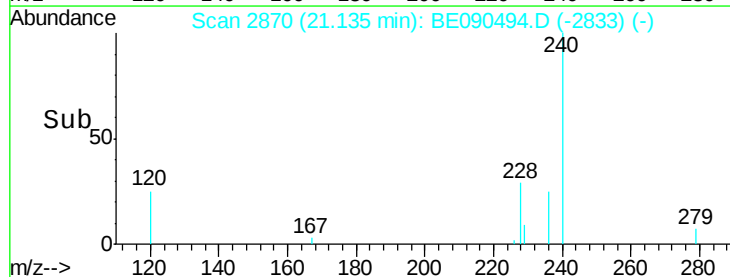
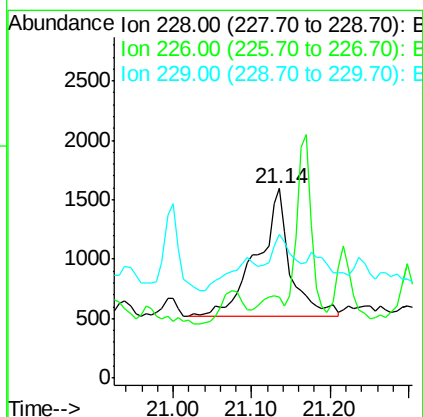
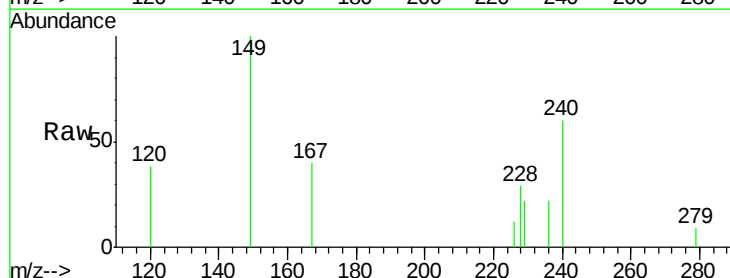
Instrument :
 BNA_E
 ClientSampleId :

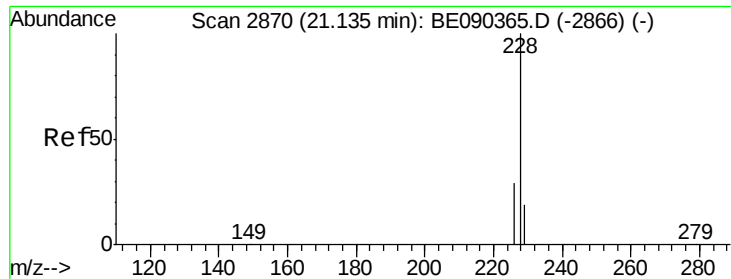
Tot Ion:244 Resp: 39329
 Ion Ratio Lower Upper
 244 100
 212 8.7 6.6 9.8
 122 16.2 10.2 15.4#



#28
 Benzo(a)anthracene
 Concen: 0.09 ng
 RT: 21.14 min Scan# 2870
 Delta R.T. 0.05 min
 Lab File: BE090494.D
 Acq: 13 Aug 2015 7:24

Tgt Ion:228 Resp: 3167
 Ion Ratio Lower Upper
 228 100
 226 42.6 21.9 32.9#
 229 76.0 15.4 23.0#





#29

Chrysene

Concen: 0.08 ng

RT: 21.14 min Scan# 2870

Delta R.T. 0.00 min

Lab File: BE090494.D

Acq: 13 Aug 2015 7:24

Instrument :

BNA_E

ClientSampleId :

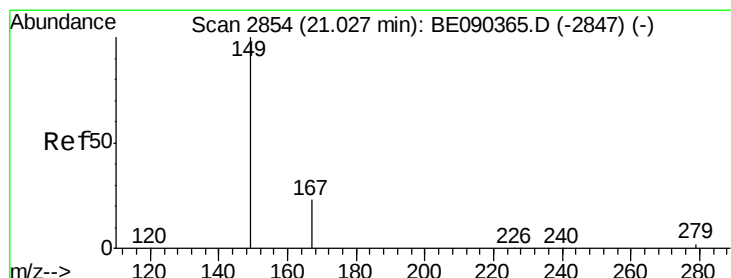
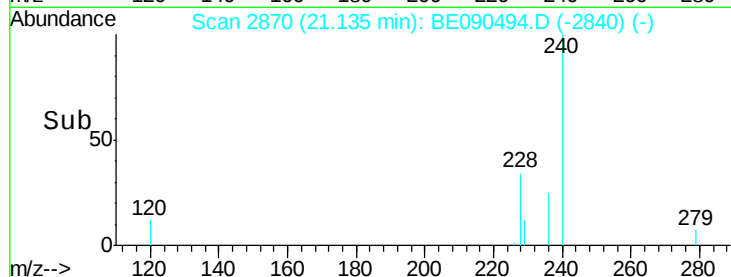
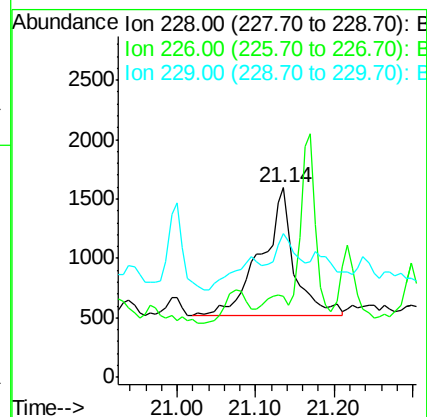
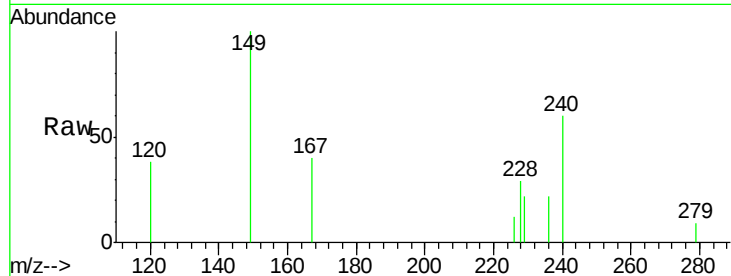
Tot Ion:228 Resp: 3167

Ion Ratio Lower Upper

228 100

226 42.6 23.1 34.7#

229 76.0 15.8 23.8#



#30

Bis(2-ethylhexyl)phthalate

Concen: 10.56 ng

RT: 21.03 min Scan# 2854

Delta R.T. 0.00 min

Lab File: BE090494.D

Acq: 13 Aug 2015 7:24

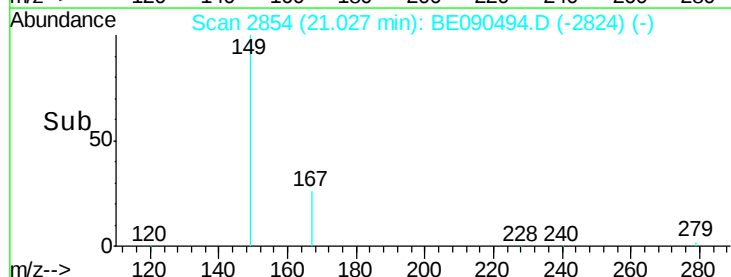
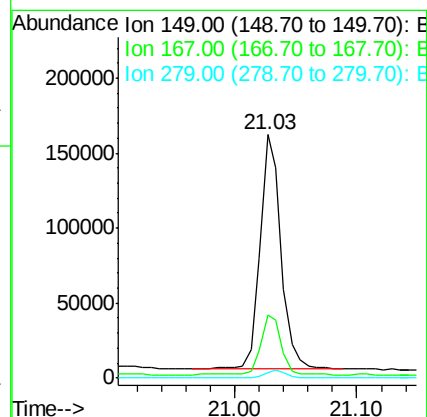
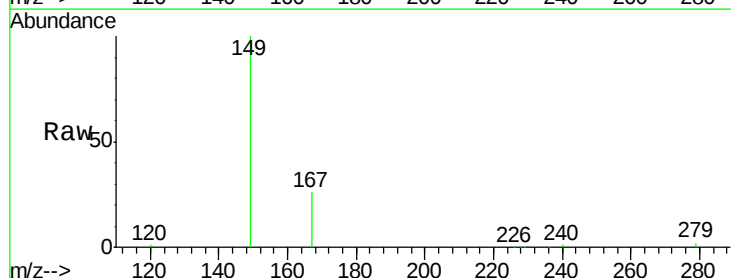
Tgt Ion:149 Resp: 189724

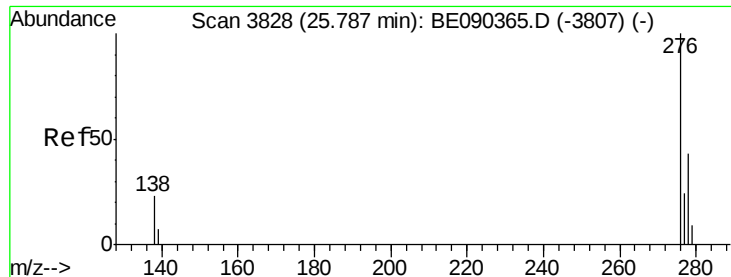
Ion Ratio Lower Upper

149 100

167 24.4 19.8 29.8

279 3.0 2.4 3.6

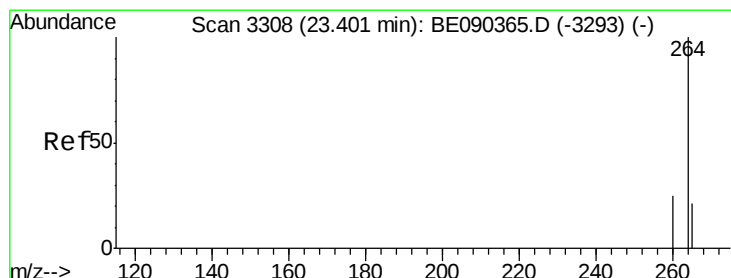
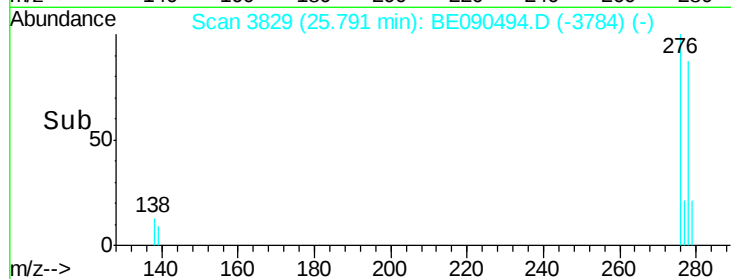
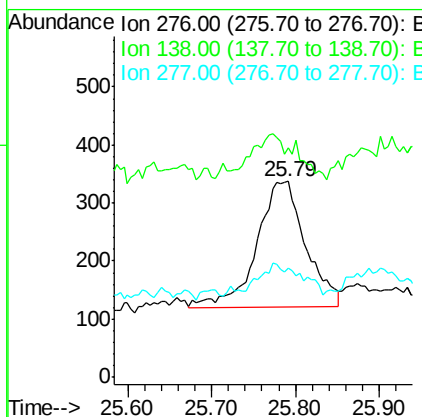
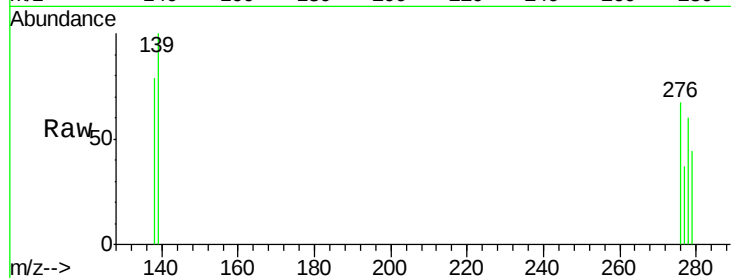




#31
 Indeno(1,2,3-cd)pyrene
 Concen: 0.27 ng
 RT: 25.79 min Scan# 3829
 Delta R.T. 0.01 min
 Lab File: BE090494.D
 Acq: 13 Aug 2015 7:24

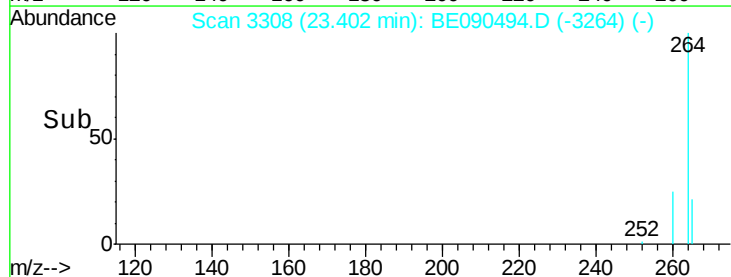
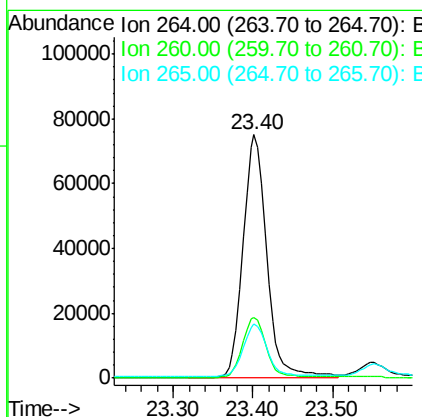
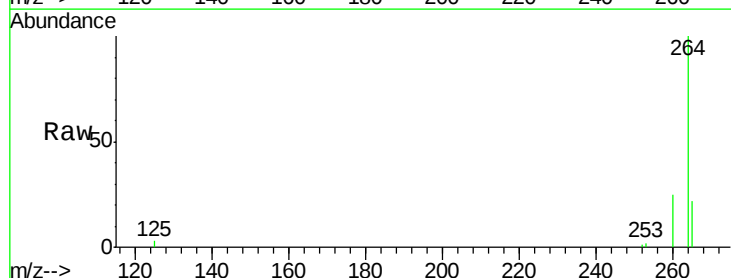
Instrument :
 BNA_E
 ClientSampleId :

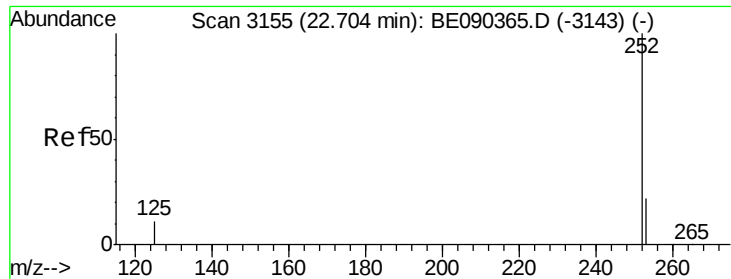
Tot Ion:276 Resp: 878
 Ion Ratio Lower Upper
 276 100
 138 15.8 18.8 28.2#
 277 17.3 18.2 27.4#



#32
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.40 min Scan# 3308
 Delta R.T. 0.00 min
 Lab File: BE090494.D
 Acq: 13 Aug 2015 7:24

Tgt Ion:264 Resp: 154956
 Ion Ratio Lower Upper
 264 100
 260 25.0 20.1 30.1
 265 22.3 17.2 25.8





#33

Benzo(b)fluoranthene

Concen: 0.21 ng

RT: 22.70 min Scan# 3154

Delta R.T. -0.00 min

Lab File: BE090494.D

Acq: 13 Aug 2015 7:24

Instrument :

BNA_E

ClientSampleId :

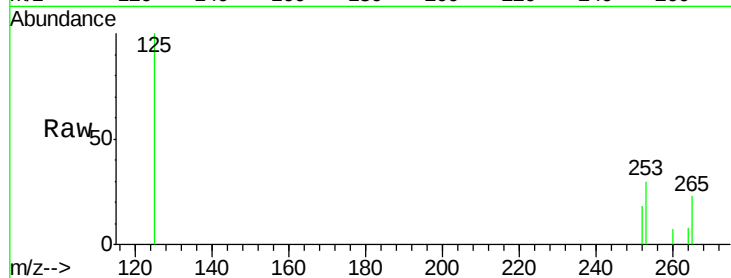
Tot Ion:252 Resp: 481

Ion Ratio Lower Upper

252 100

253 169.0 18.1 27.1#

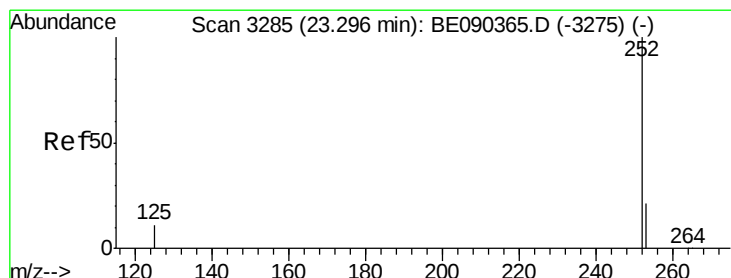
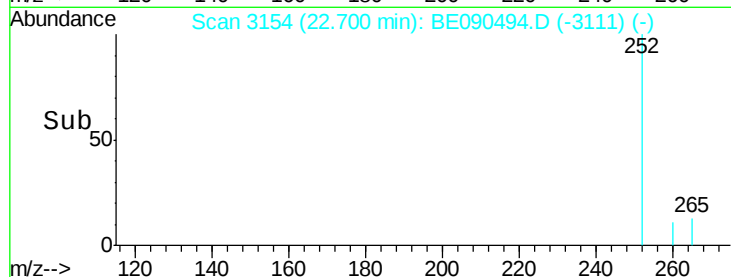
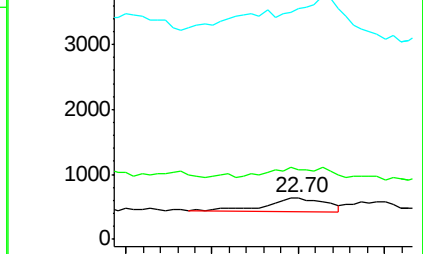
125 554.9 9.4 14.2#



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



#35

Benzo(a)pyrene

Concen: 0.24 ng

RT: 23.30 min Scan# 3285

Delta R.T. 0.00 min

Lab File: BE090494.D

Acq: 13 Aug 2015 7:24

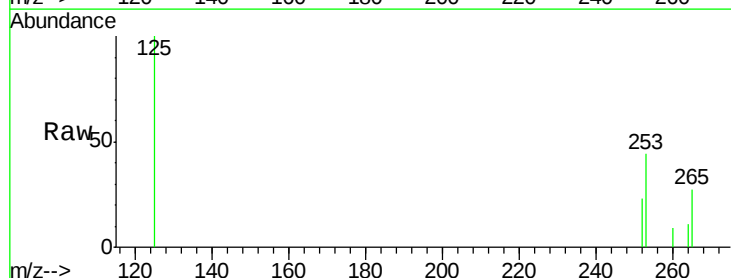
Tgt Ion:252 Resp: 340

Ion Ratio Lower Upper

252 100

253 195.7 17.6 26.4#

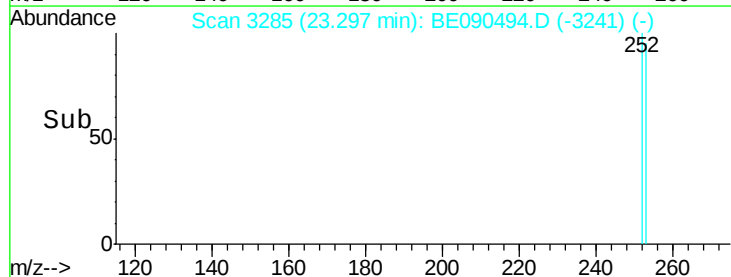
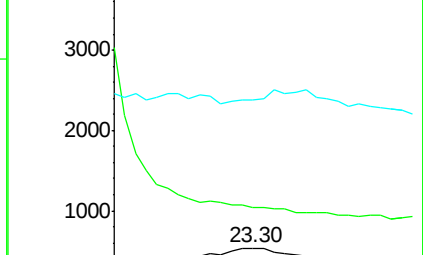
125 442.7 9.8 14.6#

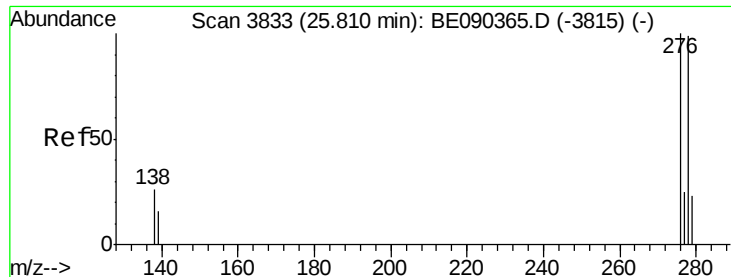


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#36

Dibenzo(a,h)anthracene

Concen: 0.31 ng

RT: 25.79 min Scan# 3829

Delta R.T. -0.02 min

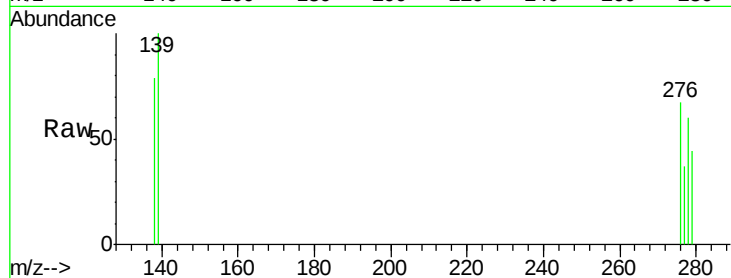
Lab File: BE090494.D

Acq: 13 Aug 2015 7:24

Instrument :

BNA_E

ClientSampleId :



Tot Ion: 278 Resp: 719

Ion Ratio Lower Upper

278 100

139 167.7 14.2 21.4#

279 73.3 20.1 30.1#

