

Data File : BE093416.D
Acq On : 2 Jul 2017 16:29
Operator : SJ/JU
Sample : PB100111BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB100111BSD

Quant Time: Jul 03 06:30:49 2017
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE070217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sun Jul 02 13:43:38 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.94	152	4534	0.40	ng	0.00
7) Naphthalene-d8	10.72	136	18651	0.40	ng	0.00
13) Acenaphthene-d10	14.54	164	8416	0.40	ng	0.00
19) Phenanthrene-d10	17.27	188	19943	0.40	ng	0.00
27) Chrysene-d12	21.43	240	24160	0.40	ng	0.00
34) Perylene-d12	23.93	264	25466	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.53	112	4668	0.34	ng	0.00
5) Phenol-d6	7.10	99	6215	0.31	ng	0.00
8) Nitrobenzene-d5	9.08	82	4229	0.35	ng	0.00
11) 2-Methylnaphthalene-d10	12.31	152	8580	0.29	ng	0.00
14) 2,4,6-Tribromophenol	16.03	330	622	0.24	ng	0.00
15) 2-Fluorobiphenyl	13.18	172	12663	0.39	ng	0.00
25) Fluoranthene-d10	19.29	212	72633	0.30	ng	0.00
29) Terphenyl-d14	19.88	244	14376	0.33	ng	0.00

Target Compounds				Qvalue		
2) 1,4-Dioxane	3.46	88	2067	0.22	ng	# 29
3) n-Nitrosodimethylamine	3.76	42	1840	0.39	ng	# 97
6) bis(2-Chloroethyl)ether	7.36	93	4668	0.31	ng	# 98
9) Naphthalene	10.77	128	60526	0.31	ng	# 73
10) Hexachlorobutadiene	11.08	225	2388	0.32	ng	100
12) 2-Methylnaphthalene	12.38	142	9684	0.30	ng	96
16) Acenaphthylene	14.26	152	10766	0.31	ng	# 87
17) Acenaphthene	14.60	154	8609	0.34	ng	96
18) Fluorene	15.58	166	10396	0.29	ng	# 86
20) 4-Bromophenyl-phenylether	16.45	248	3934	0.36	ng	# 20
21) Hexachlorobenzene	16.58	284	3970	0.34	ng	# 100
22) Pentachlorophenol	16.91	266	925	0.60	ng	# 80
23) Phenanthrene	17.30	178	23308	0.32	ng	98
24) Anthracene	17.30	178	23922	0.54	ng	99
26) Fluoranthene	19.32	202	20039	0.29	ng	98
28) Pyrene	19.67	202	20013	0.29	ng	# 98
30) Benzo(a)anthracene	21.40	228	20964	0.32	ng	93
31) Chrysene	21.46	228	21848	0.32	ng	93
32) Bis(2-ethylhexyl)phthalate	21.33	149	22322	0.24	ng	# 66
33) Indeno(1,2,3-cd)pyrene	26.58	276	29679	0.50	ng	94
35) Benzo(b)fluoranthene	23.17	252	25573	0.31	ng	96
36) Benzo(k)fluoranthene	23.21	252	25168	0.31	ng	97
37) Benzo(a)pyrene	23.82	252	22017	0.31	ng	97
38) Dibenzo(a,h)anthracene	26.60	278	25855	0.37	ng	# 91
39) Benzo(g,h,i)perylene	27.40	276	25644	0.36	ng	91

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

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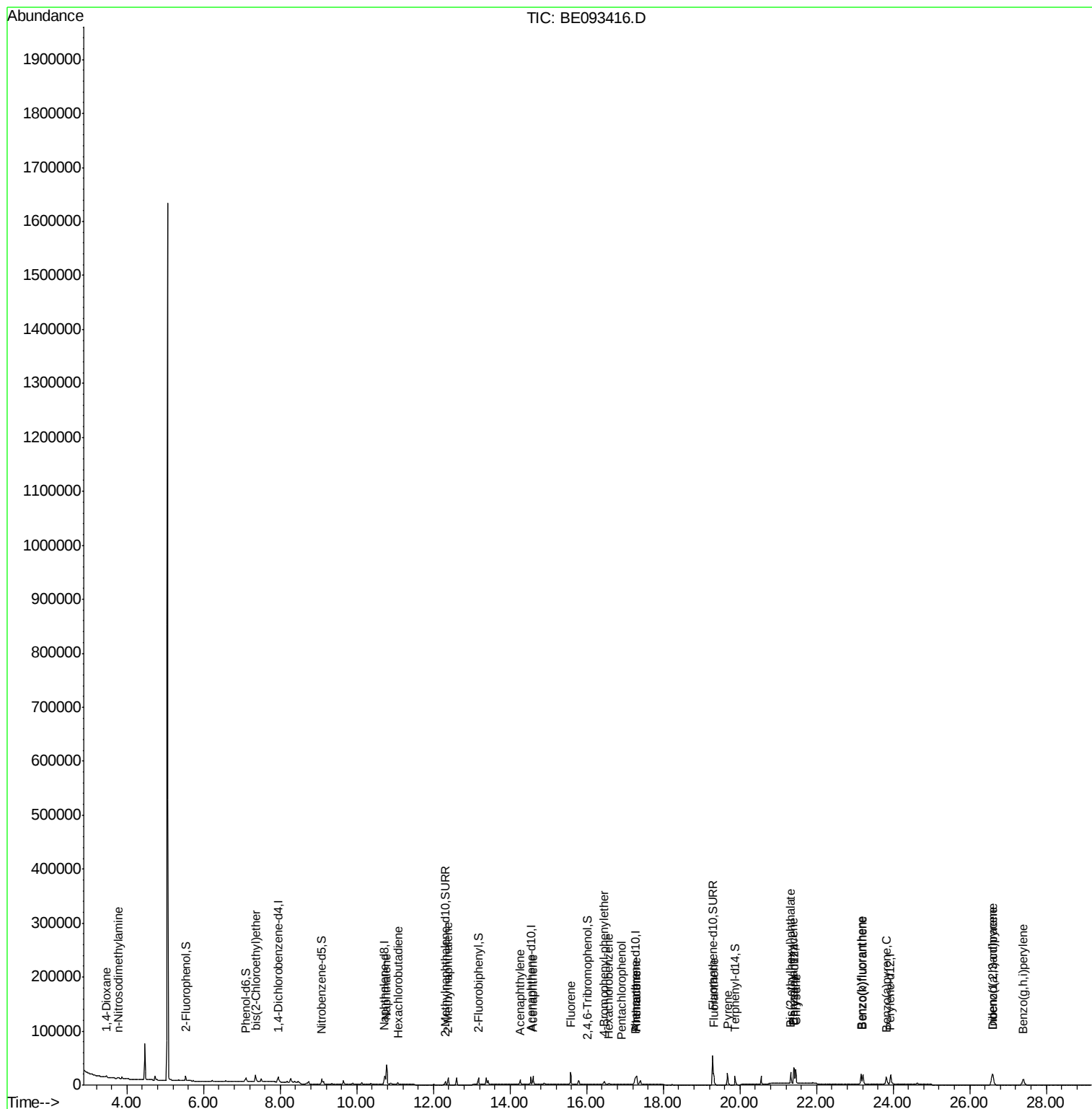
Quant Time: Jul 03 06:30:49 2017

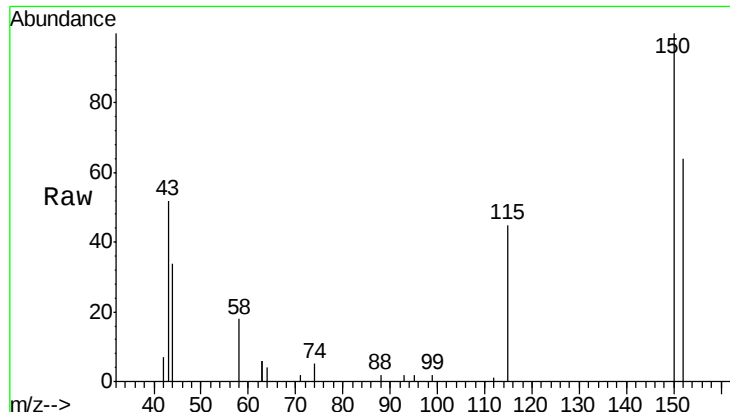
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE070217.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Sun Jul 02 13:43:38 2017

Response via : Initial Calibration

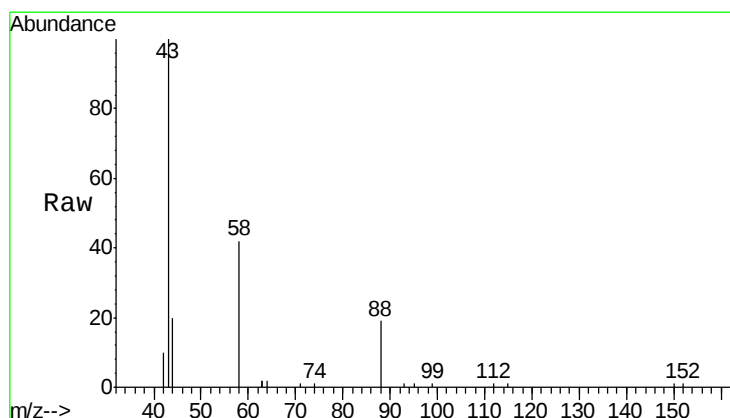
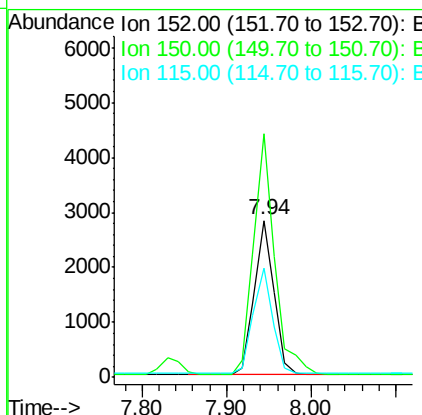
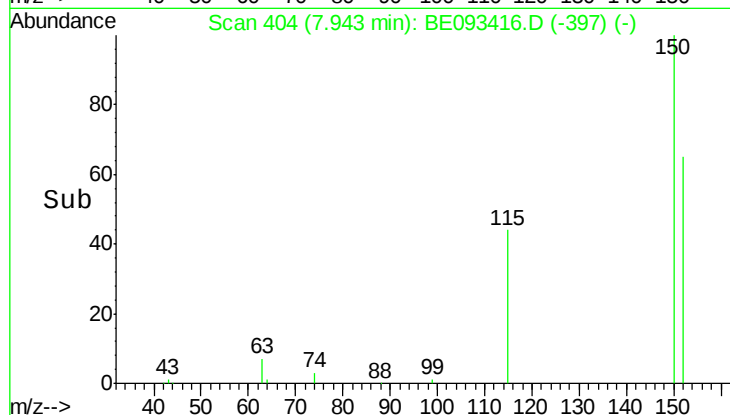




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.40 ng
 RT: 7.94 min Scan# 404
 Delta R.T. -0.00 min
 Lab File: BE093416.D
 Acq: 2 Jul 2017 16:29

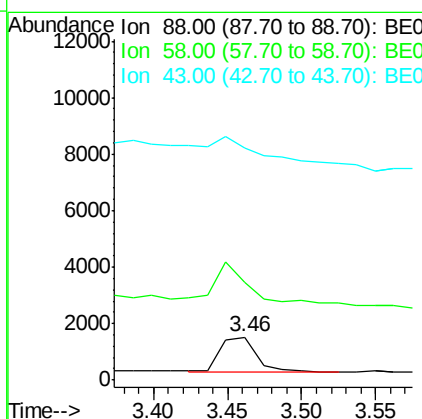
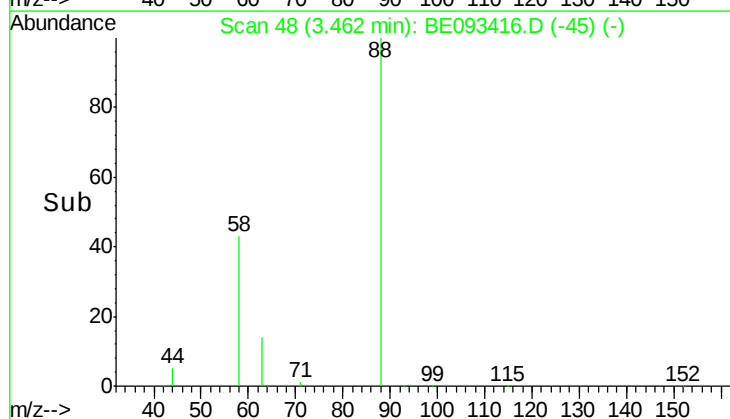
Instrument :
 BNA_E
 ClientSampleId :
 PB100111BSD

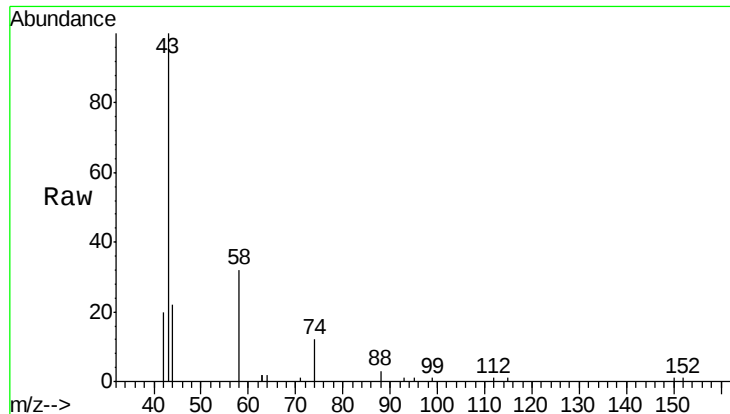
Tgt Ion:152 Resp: 4534
 Ion Ratio Lower Upper
 152 100
 150 155.5 125.1 187.7
 115 69.4 55.7 83.5



#2
 1,4-Dioxane
 Concen: 0.22 ng
 RT: 3.46 min Scan# 48
 Delta R.T. 0.01 min
 Lab File: BE093416.D
 Acq: 2 Jul 2017 16:29

Tgt Ion: 88 Resp: 2067
 Ion Ratio Lower Upper
 88 100
 58 144.8 62.2 93.4#
 43 0.0 23.2 34.8#

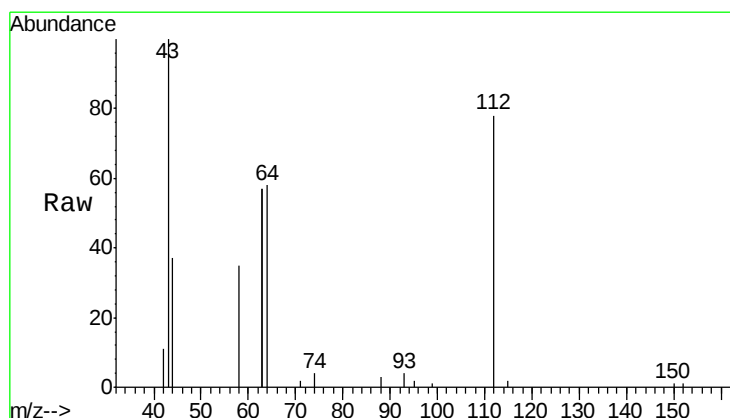
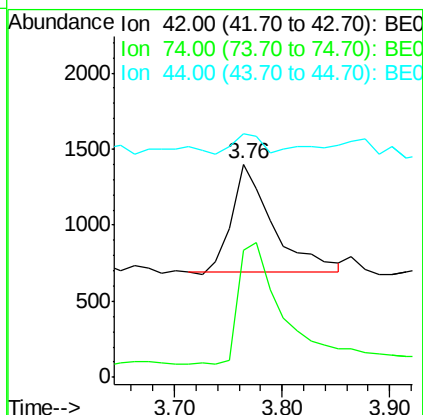
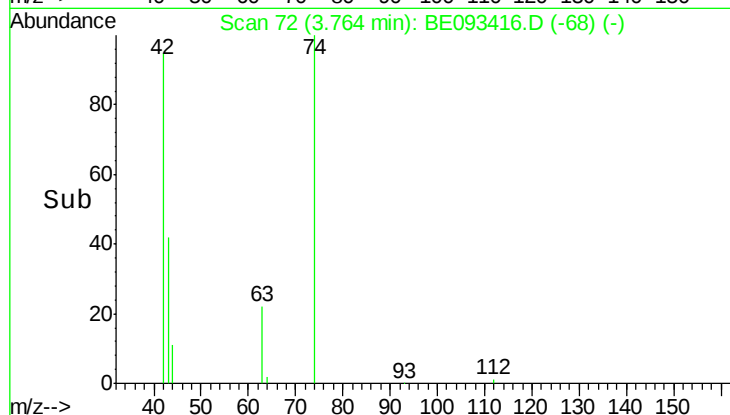




#3
 n-Nitrosodimethylamine
 Concen: 0.39 ng
 RT: 3.76 min Scan# 72
 Delta R.T. 0.00 min
 Lab File: BE093416.D
 Acq: 2 Jul 2017 16:29

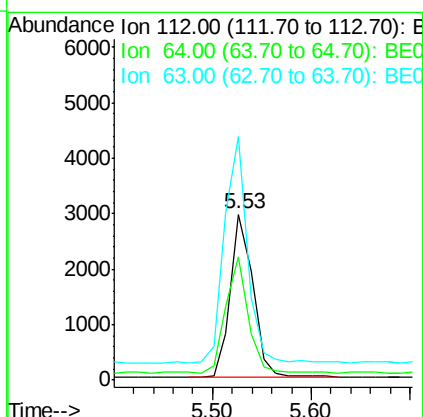
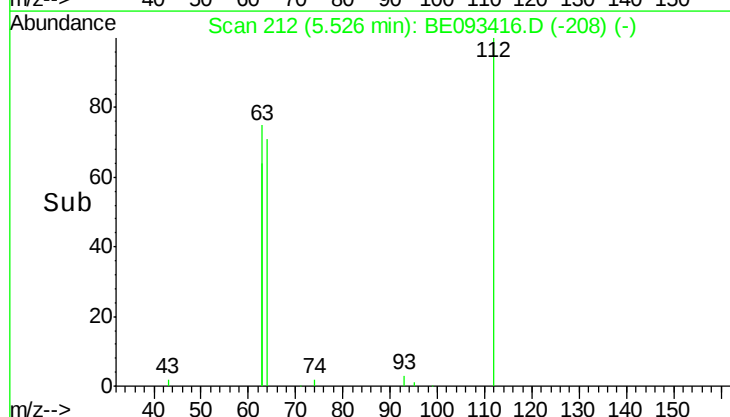
Instrument :
 BNA_E
 ClientSampleId :
 PB100111BSD

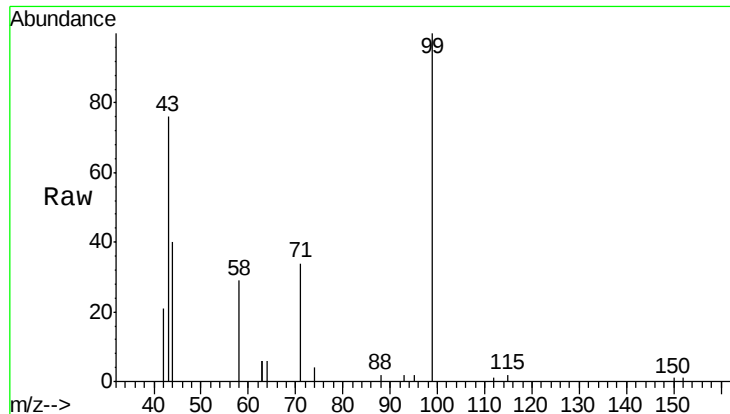
Tgt Ion: 42 Resp: 1840
 Ion Ratio Lower Upper
 42 100
 74 127.0 99.1 148.7
 44 13.5 7.4 11.2#



#4
 2-Fluorophenol
 Concen: 0.34 ng
 RT: 5.53 min Scan# 212
 Delta R.T. -0.00 min
 Lab File: BE093416.D
 Acq: 2 Jul 2017 16:29

Tgt Ion: 112 Resp: 4668
 Ion Ratio Lower Upper
 112 100
 64 71.0 56.4 84.6
 63 142.3 29.3 43.9#





#5

Phenol-d6

Concen: 0.31 ng

RT: 7.10 min Scan# 337

Delta R.T. -0.00 min

Lab File: BE093416.D

Acq: 2 Jul 2017 16:29

Instrument :

BNA_E

ClientSampleId :

PB100111BSD

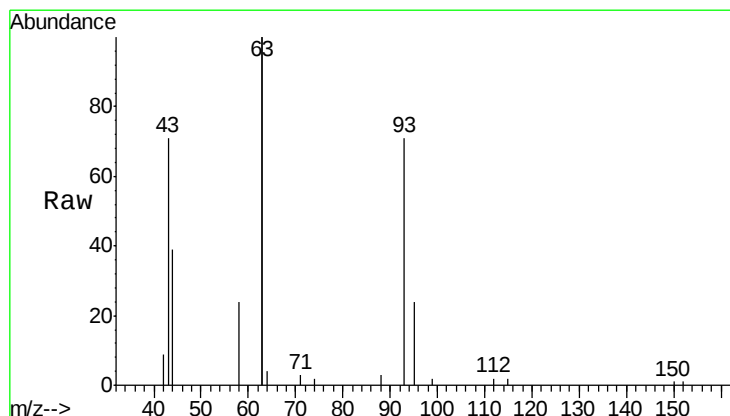
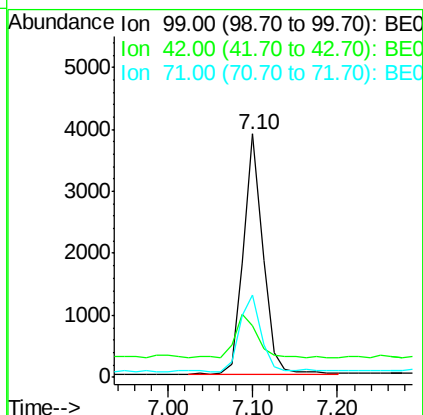
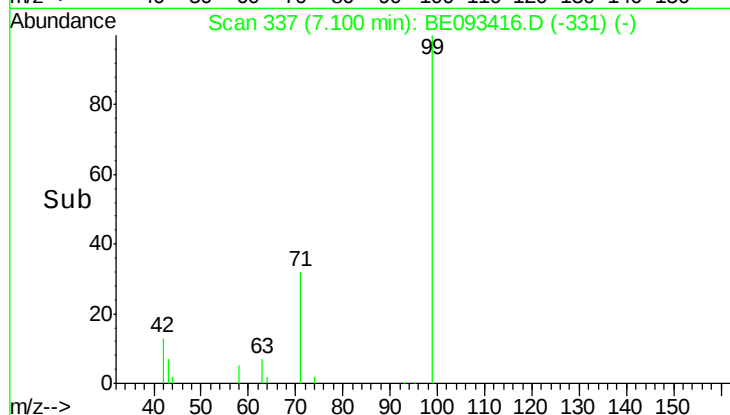
Tgt Ion: 99 Resp: 6215

Ion Ratio Lower Upper

99 100

42 21.5 0.0 0.0#

71 34.4 0.0 0.0#



#6

bis(2-Chloroethyl)ether

Concen: 0.31 ng

RT: 7.36 min Scan# 358

Delta R.T. -0.00 min

Lab File: BE093416.D

Acq: 2 Jul 2017 16:29

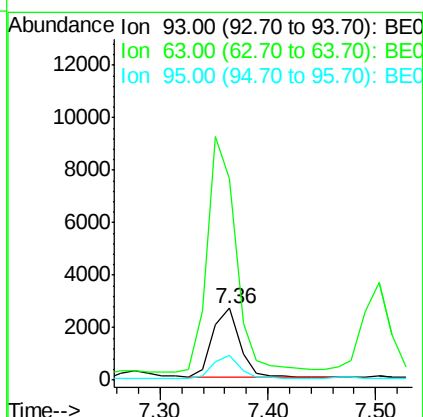
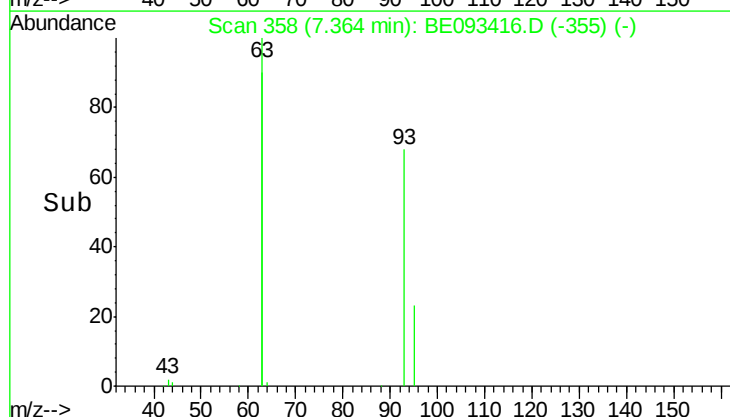
Tgt Ion: 93 Resp: 4668

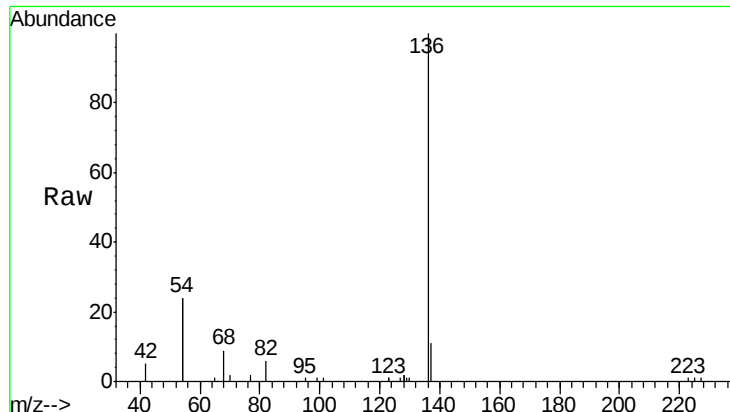
Ion Ratio Lower Upper

93 100

63 354.2 0.0 0.0#

95 32.6 25.4 38.0

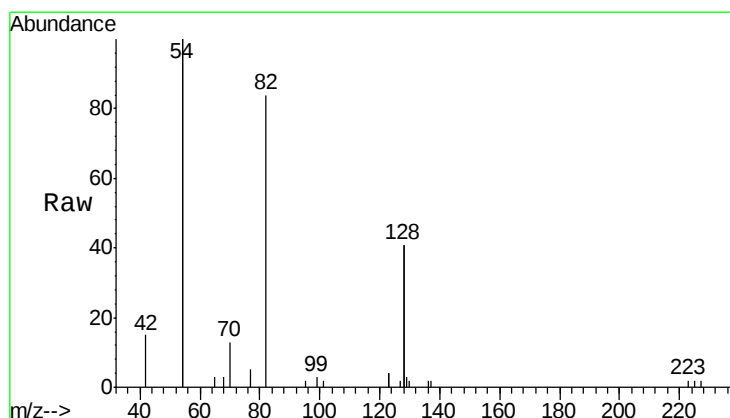
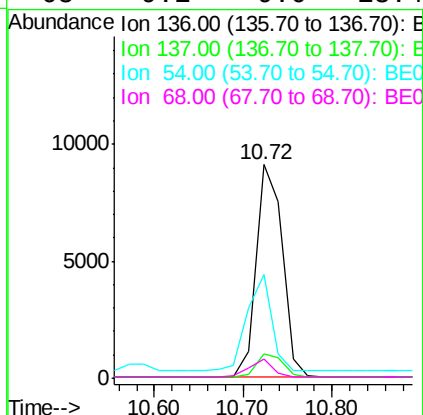
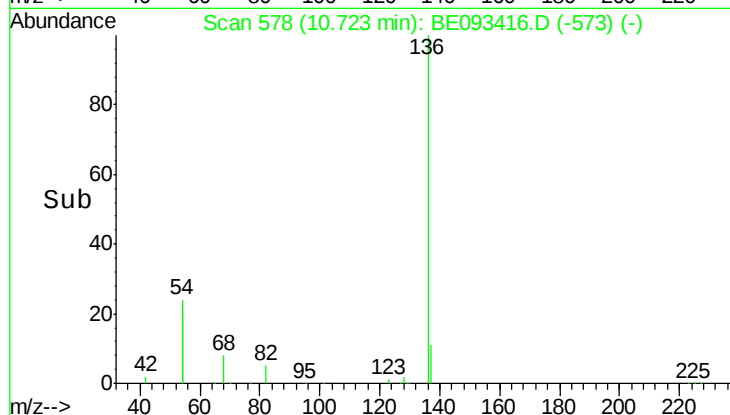




#7
Naphthalene-d8
Concen: 0.40 ng
RT: 10.72 min Scan# 578
Delta R.T. 0.00 min
Lab File: BE093416.D
Acq: 2 Jul 2017 16:29

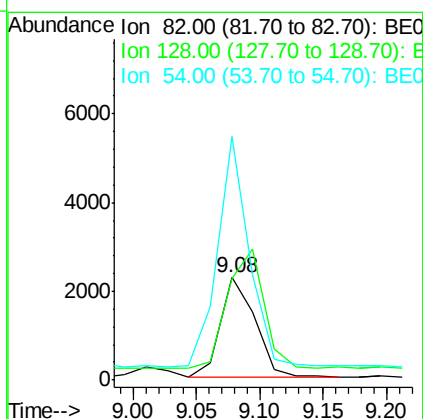
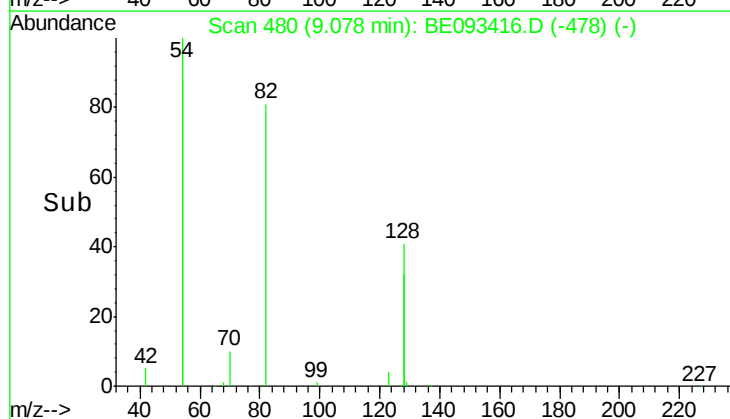
Instrument :
BNA_E
ClientSampleId :
PB100111BSD

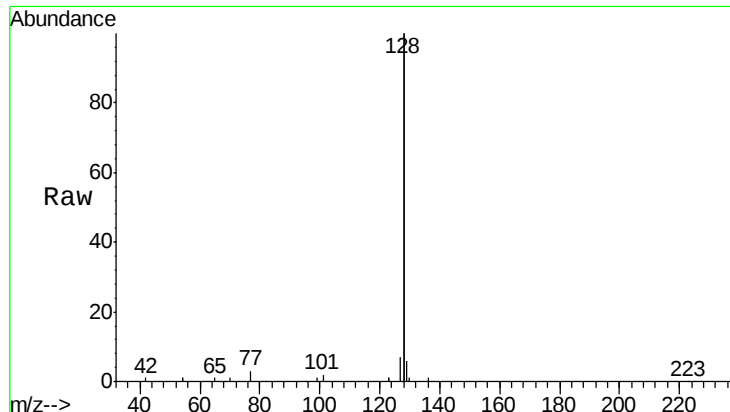
Tgt Ion:	136	Resp:	18651
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.8	14.8
54	48.4	10.3	15.5#
68	9.1	9.0	13.4



#8
Nitrobenzene-d5
Concen: 0.35 ng
RT: 9.08 min Scan# 480
Delta R.T. 0.00 min
Lab File: BE093416.D
Acq: 2 Jul 2017 16:29

Tgt Ion:	82	Resp:	4229
Ion	Ratio	Lower	Upper
82	100		
128	98.4	17.0	25.4#
54	237.6	53.8	80.6#

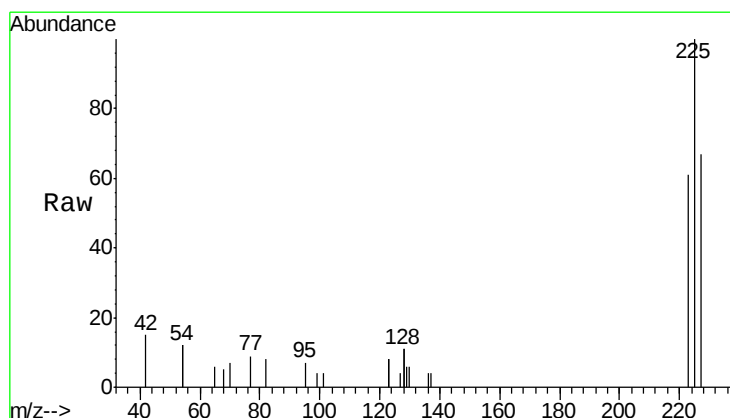
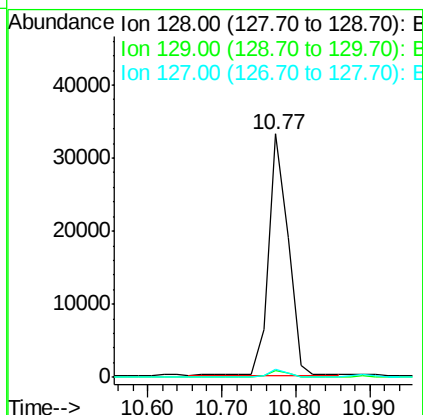
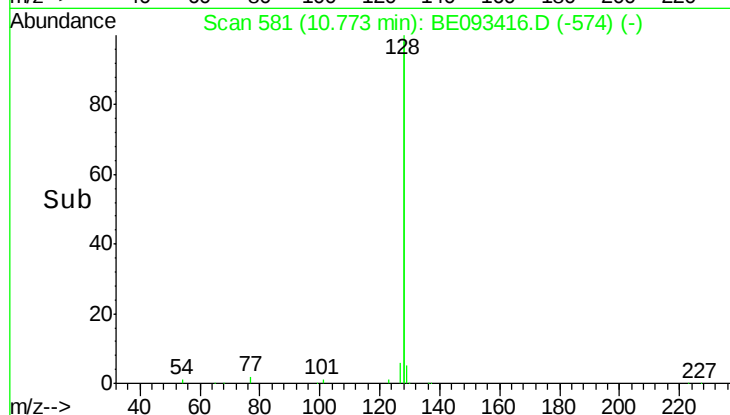




#9
Naphthalene
Concen: 0.31 ng
RT: 10.77 min Scan# 581
Delta R.T. 0.00 min
Lab File: BE093416.D
Acq: 2 Jul 2017 16:29

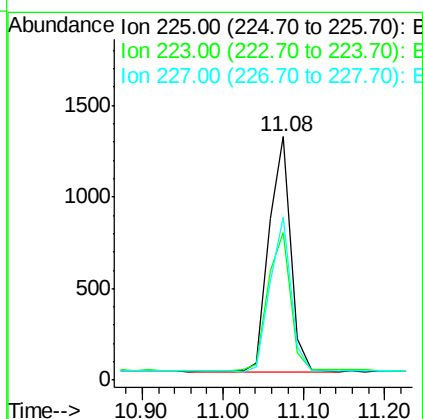
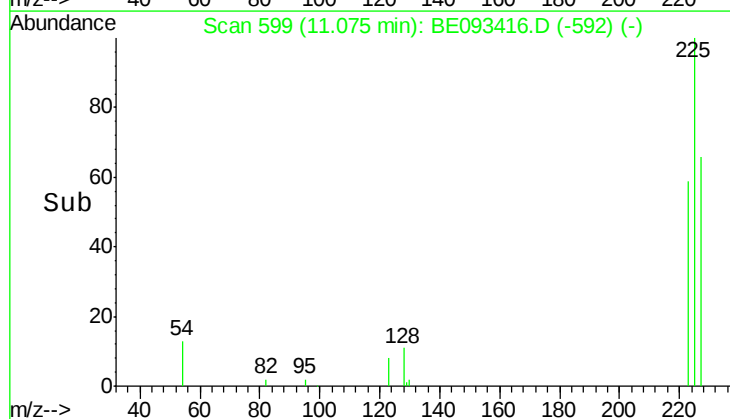
Instrument :
BNA_E
ClientSampleId :
PB100111BSD

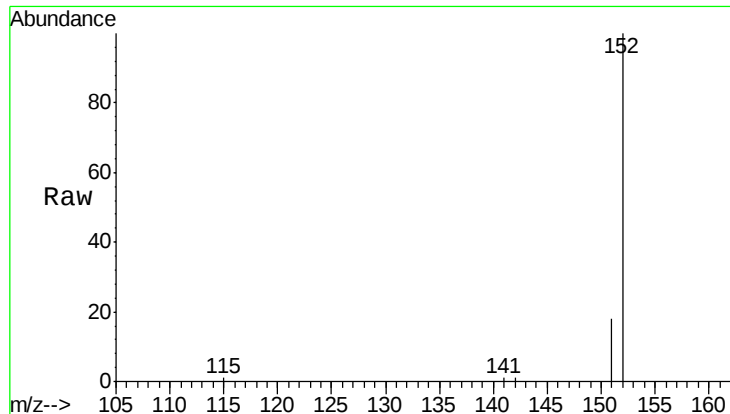
Tgt Ion:128 Resp: 60526
Ion Ratio Lower Upper
128 100
129 2.8 11.4 17.0#
127 3.4 11.2 16.8#



#10
Hexachlorobutadiene
Concen: 0.32 ng
RT: 11.08 min Scan# 599
Delta R.T. 0.00 min
Lab File: BE093416.D
Acq: 2 Jul 2017 16:29

Tgt Ion:225 Resp: 2388
Ion Ratio Lower Upper
225 100
223 61.9 49.7 74.5
227 63.1 50.3 75.5

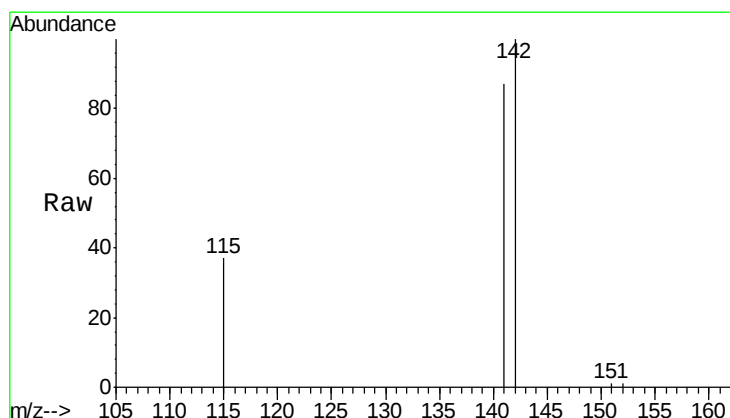
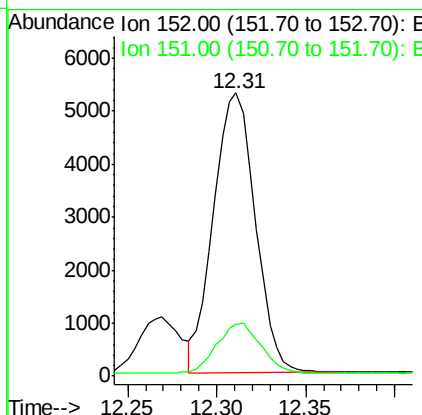
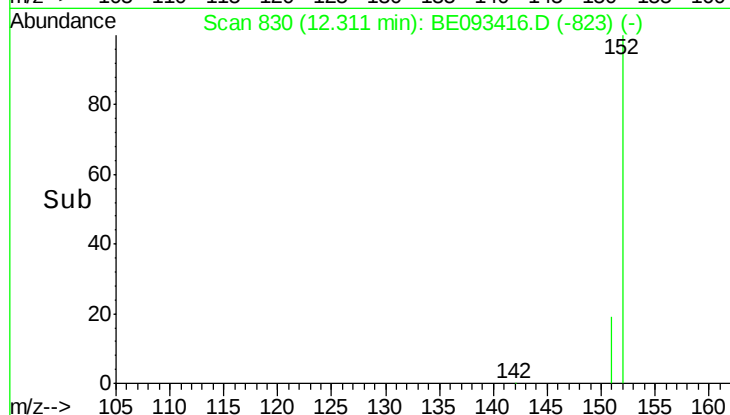




#11
 2-Methylnaphthalene-d10
 Concen: 0.29 ng
 RT: 12.31 min Scan# 830
 Delta R.T. -0.00 min
 Lab File: BE093416.D
 Acq: 2 Jul 2017 16:29

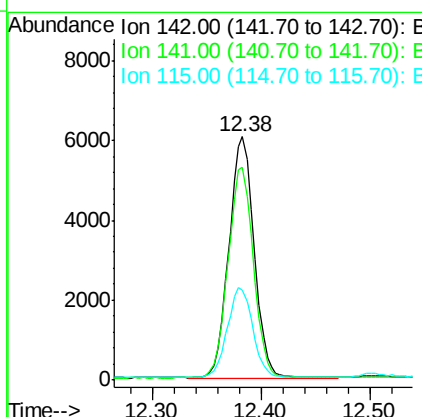
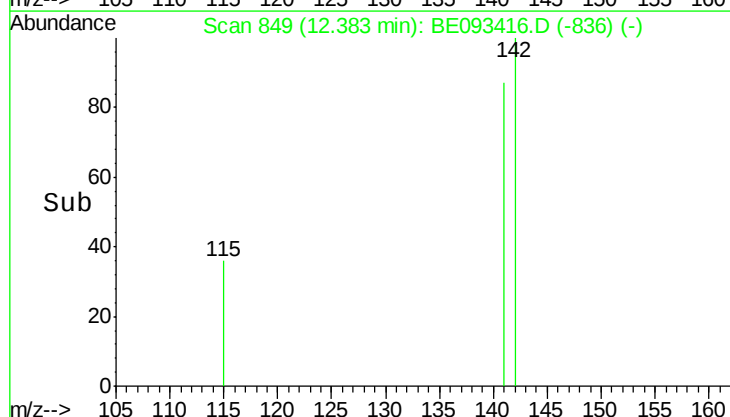
Instrument :
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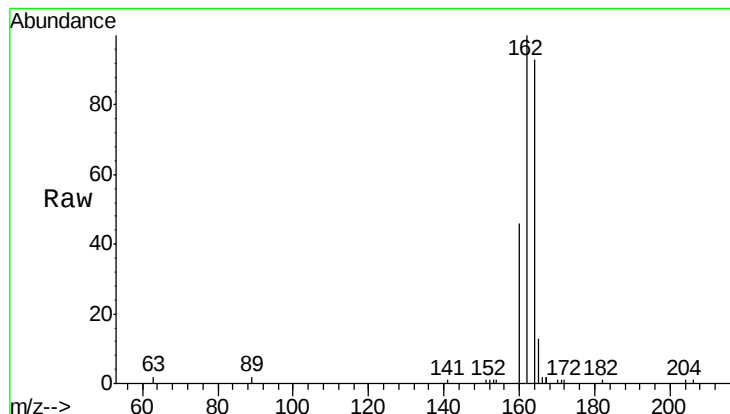
Tgt Ion:152 Resp: 8580
 Ion Ratio Lower Upper
 152 100
 151 18.6 15.1 22.7



#12
 2-Methylnaphthalene
 Concen: 0.30 ng
 RT: 12.38 min Scan# 849
 Delta R.T. -0.00 min
 Lab File: BE093416.D
 Acq: 2 Jul 2017 16:29

Tgt Ion:142 Resp: 9684
 Ion Ratio Lower Upper
 142 100
 141 87.2 72.6 108.8
 115 37.0 32.2 48.2





#13

Acenaphthene-d10

Concen: 0.40 ng

RT: 14.54 min Scan# 1113

Delta R.T. 0.00 min

Lab File: BE093416.D

Acq: 2 Jul 2017 16:29

Instrument :

BNA_E

ClientSampleId :

PB100111BSD

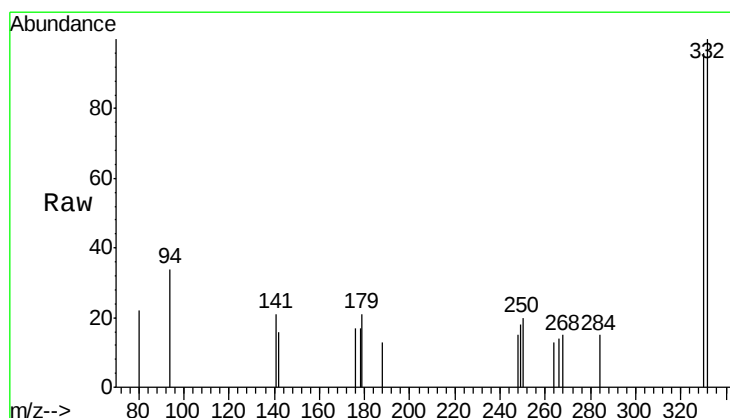
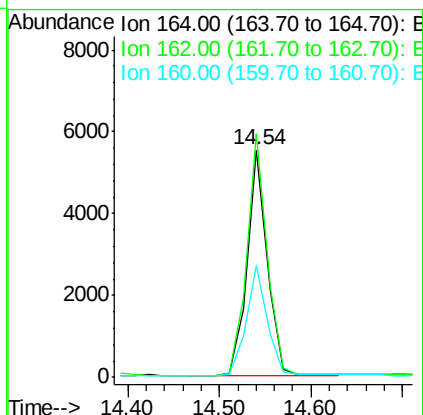
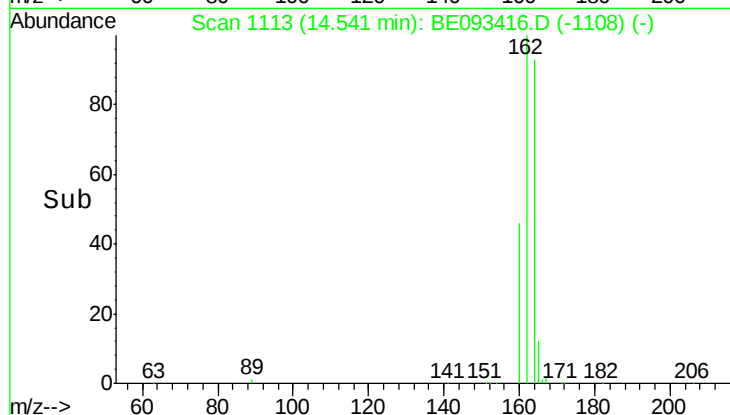
Tgt Ion:164 Resp: 8416

Ion Ratio Lower Upper

164 100

162 107.0 84.6 127.0

160 49.2 41.8 62.6



#14

2,4,6-Tribromophenol

Concen: 0.24 ng

RT: 16.03 min Scan# 1206

Delta R.T. -0.00 min

Lab File: BE093416.D

Acq: 2 Jul 2017 16:29

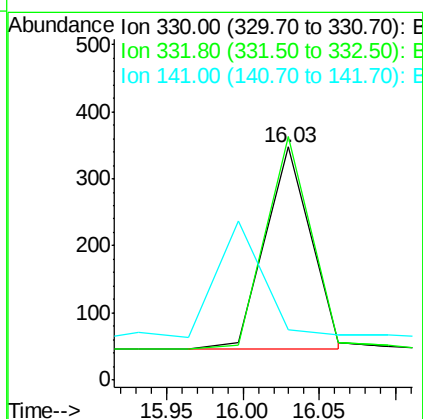
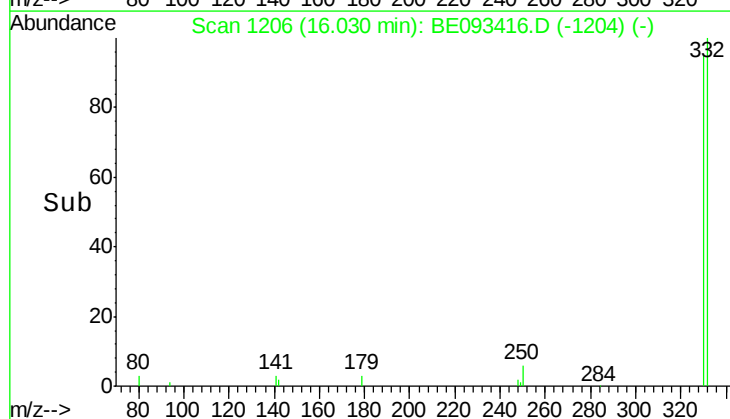
Tgt Ion:330 Resp: 622

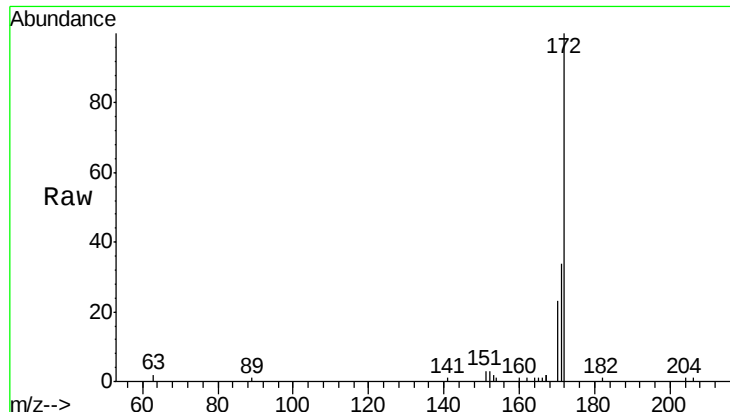
Ion Ratio Lower Upper

330 100

332 104.7 77.7 116.5

141 0.0 56.2 84.4#

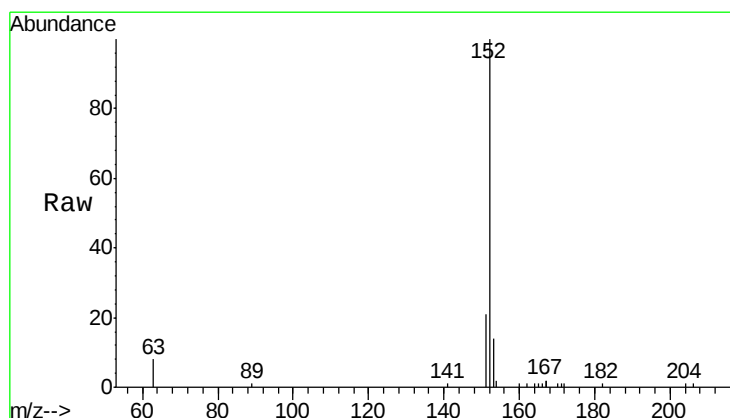
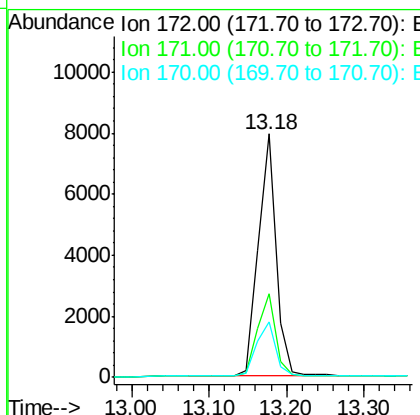
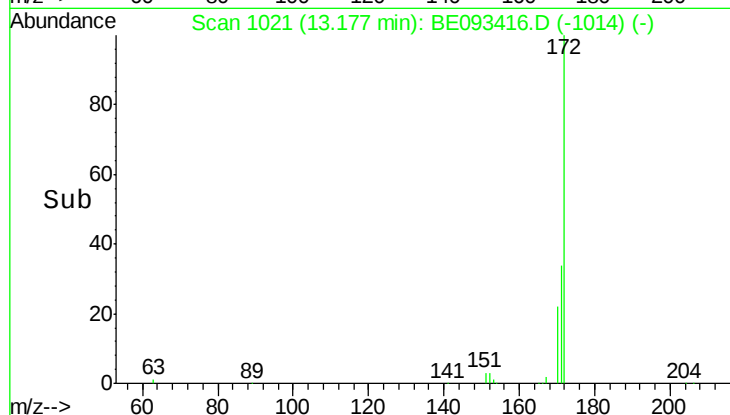




#15
2-Fluorobiphenyl
Concen: 0.39 ng
RT: 13.18 min Scan# 1021
Delta R.T. 0.00 min
Lab File: BE093416.D
Acq: 2 Jul 2017 16:29

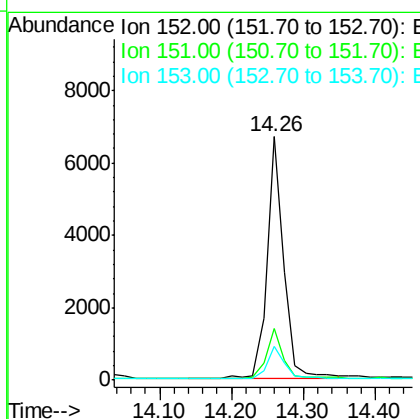
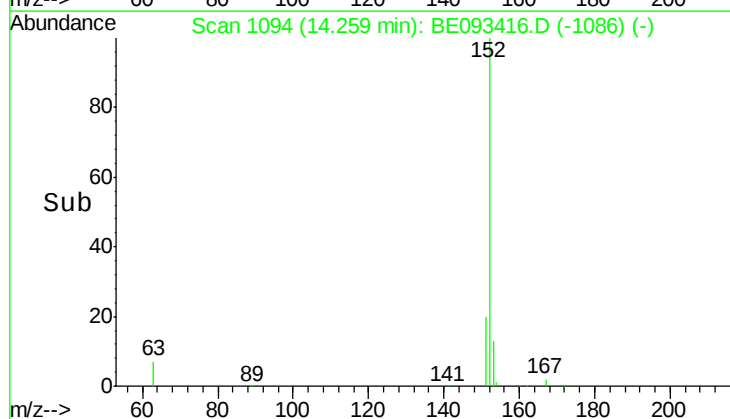
Instrument :
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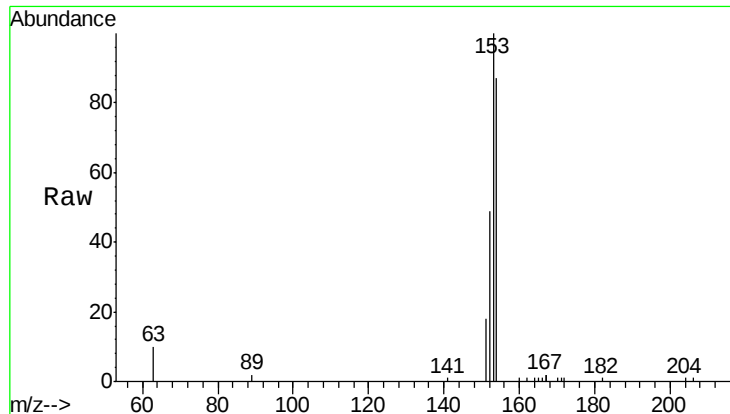
Tgt Ion:172 Resp: 12663
Ion Ratio Lower Upper
172 100
171 34.5 29.8 44.6
170 22.7 20.7 31.1



#16
Acenaphthylene
Concen: 0.31 ng
RT: 14.26 min Scan# 1094
Delta R.T. 0.00 min
Lab File: BE093416.D
Acq: 2 Jul 2017 16:29

Tgt Ion:152 Resp: 10766
Ion Ratio Lower Upper
152 100
151 20.4 4.0 6.0#
153 13.1 10.3 15.5

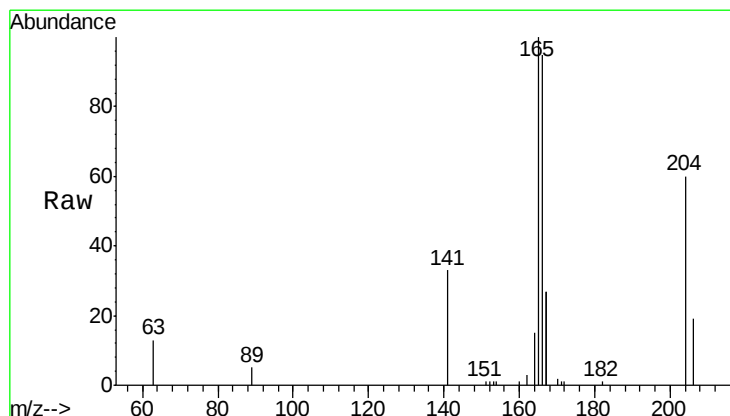
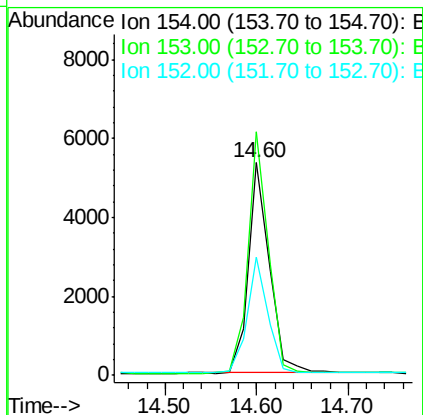
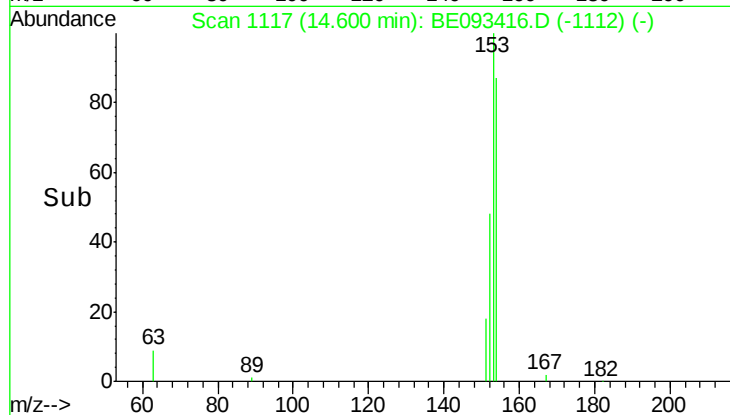




#17
Acenaphthene
Concen: 0.34 ng
RT: 14.60 min Scan# 1117
Delta R.T. 0.00 min
Lab File: BE093416.D
Acq: 2 Jul 2017 16:29

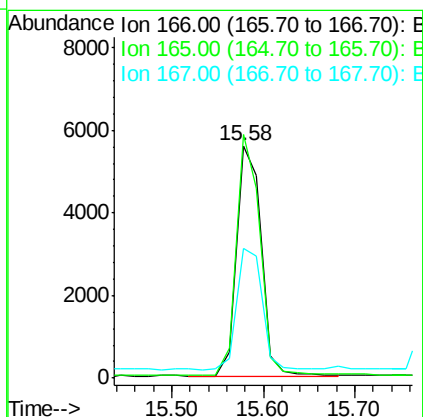
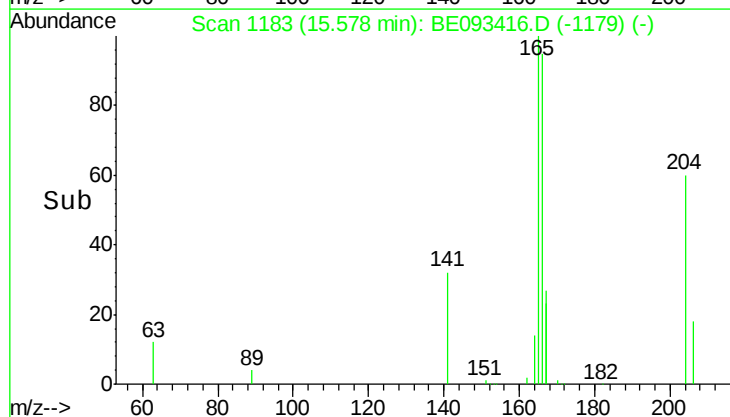
Instrument :
BNA_E
ClientSampleId :
PB100111BSD

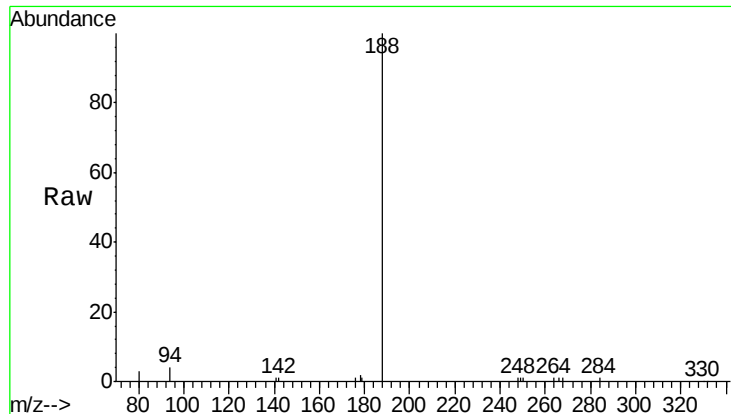
Tgt Ion:154 Resp: 8609
Ion Ratio Lower Upper
154 100
153 109.9 91.2 136.8
152 53.4 44.8 67.2



#18
Fluorene
Concen: 0.29 ng
RT: 15.58 min Scan# 1183
Delta R.T. -0.01 min
Lab File: BE093416.D
Acq: 2 Jul 2017 16:29

Tgt Ion:166 Resp: 10396
Ion Ratio Lower Upper
166 100
165 100.1 78.6 117.8
167 54.8 11.1 16.7#

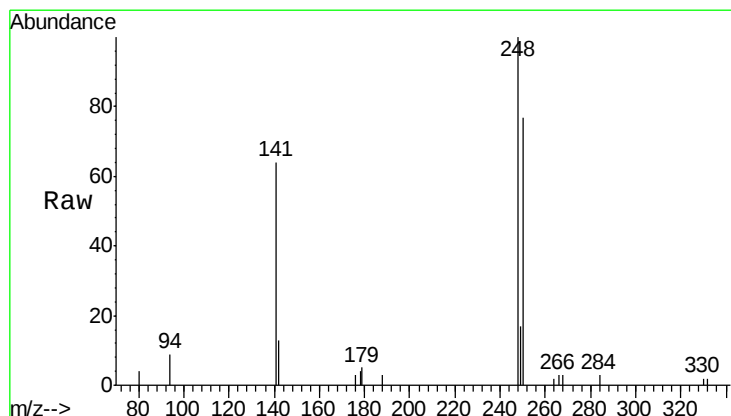
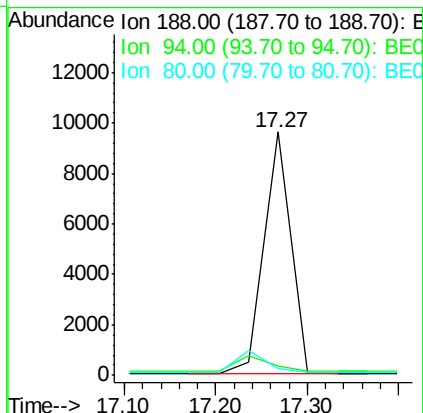
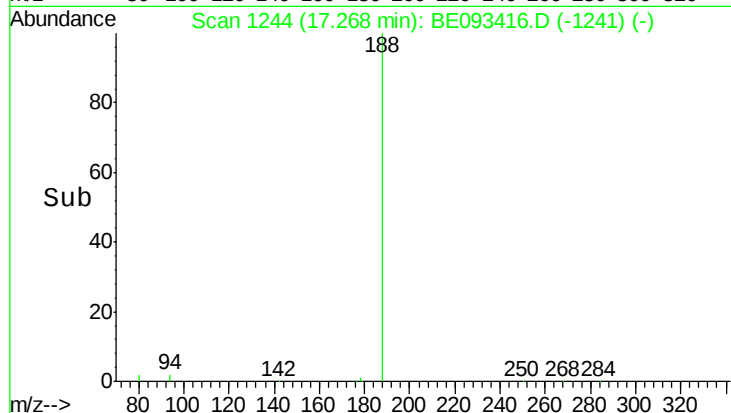




#19
 Phenanthrene-d10
 Concen: 0.40 ng
 RT: 17.27 min Scan# 1244
 Delta R.T. -0.00 min
 Lab File: BE093416.D
 Acq: 2 Jul 2017 16:29

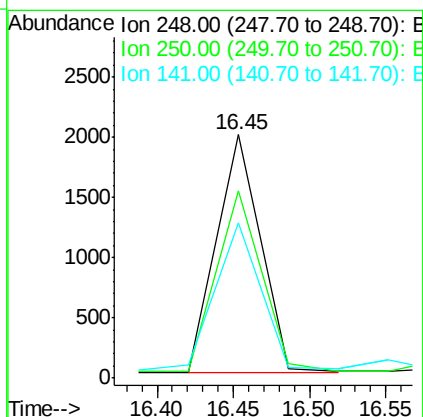
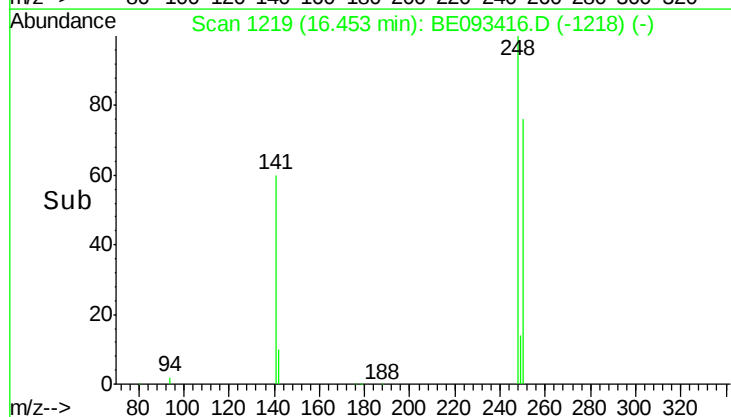
Instrument :
 BNA_E
 ClientSampleId :
 PB100111BSD

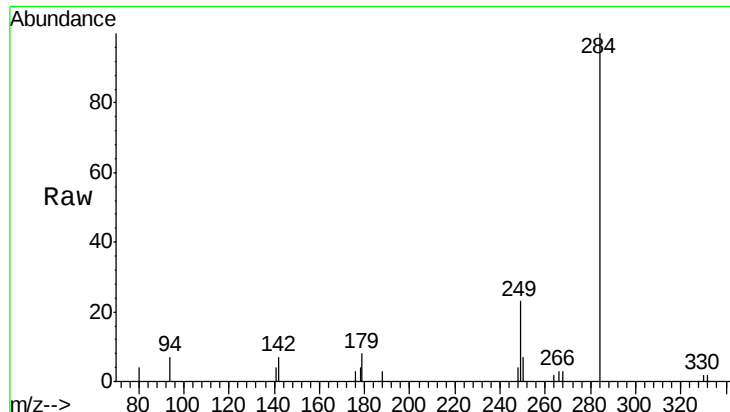
Tgt Ion:188 Resp: 19943
 Ion Ratio Lower Upper
 188 100
 94 3.7 11.3 16.9#
 80 2.6 11.7 17.5#



#20
 4-Bromophenyl-phenylether
 Concen: 0.36 ng
 RT: 16.45 min Scan# 1219
 Delta R.T. -0.00 min
 Lab File: BE093416.D
 Acq: 2 Jul 2017 16:29

Tgt Ion:248 Resp: 3934
 Ion Ratio Lower Upper
 248 100
 250 76.7 40.8 61.2#
 141 64.0 161.6 242.4#

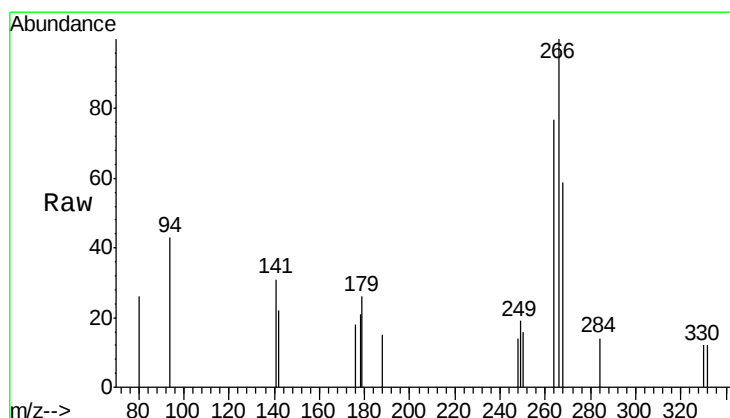
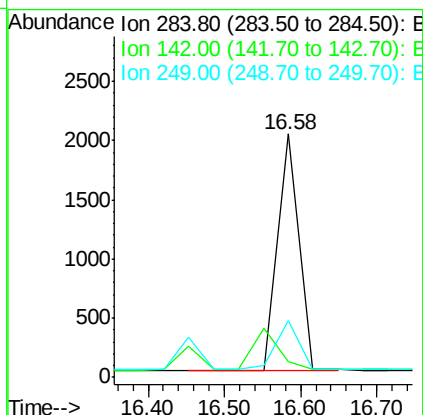
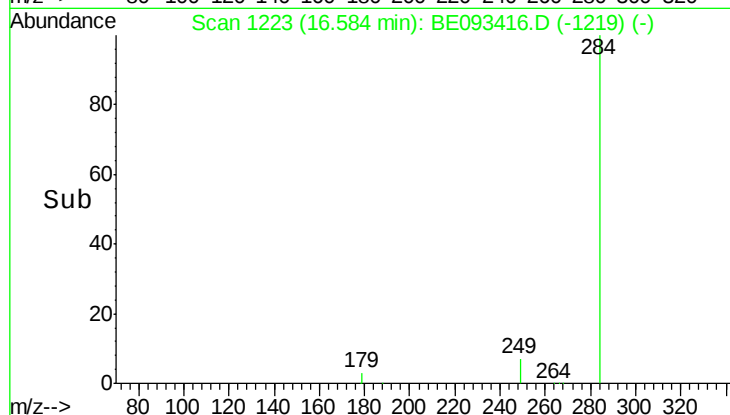




#21
Hexachlorobenzene
Concen: 0.34 ng
RT: 16.58 min Scan# 1223
Delta R.T. -0.00 min
Lab File: BE093416.D
Acq: 2 Jul 2017 16:29

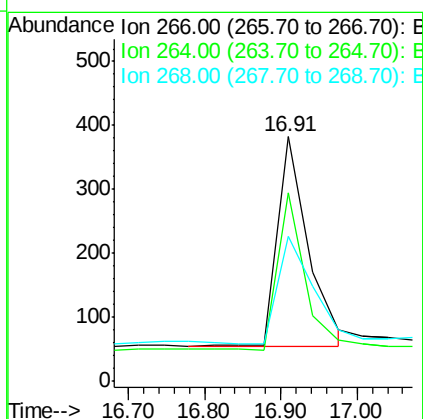
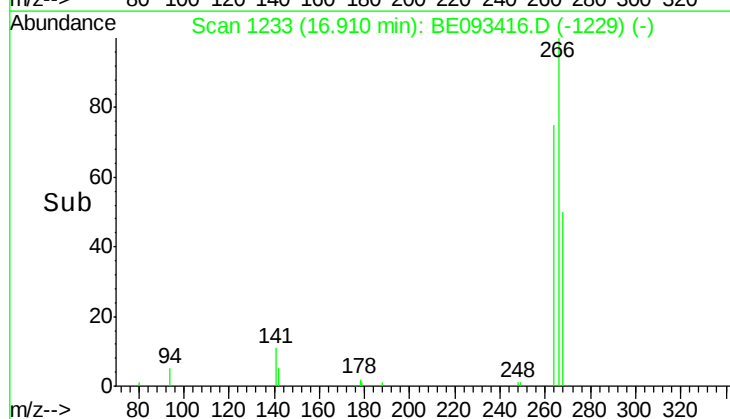
Instrument :
BNA_E
ClientSampleId :
PB100111BSD

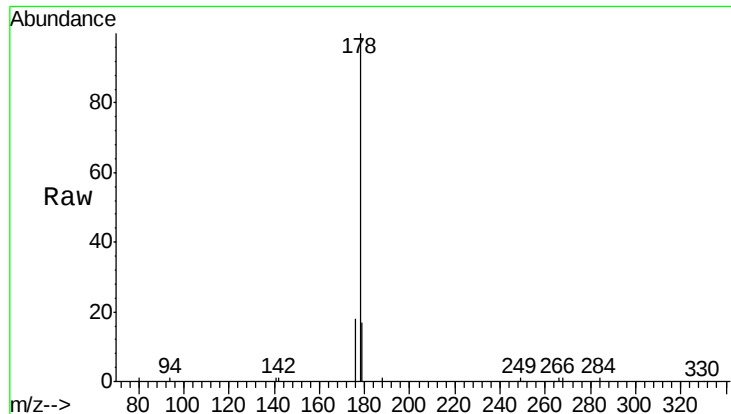
Tgt Ion:284 Resp: 3970
Ion Ratio Lower Upper
284 100
142 0.0 0.0 0.0
249 22.2 0.0 0.0#



#22
Pentachlorophenol
Concen: 0.60 ng
RT: 16.91 min Scan# 1233
Delta R.T. 0.00 min
Lab File: BE093416.D
Acq: 2 Jul 2017 16:29

Tgt Ion:266 Resp: 925
Ion Ratio Lower Upper
266 100
264 77.2 58.2 87.2
268 59.2 71.9 107.9#

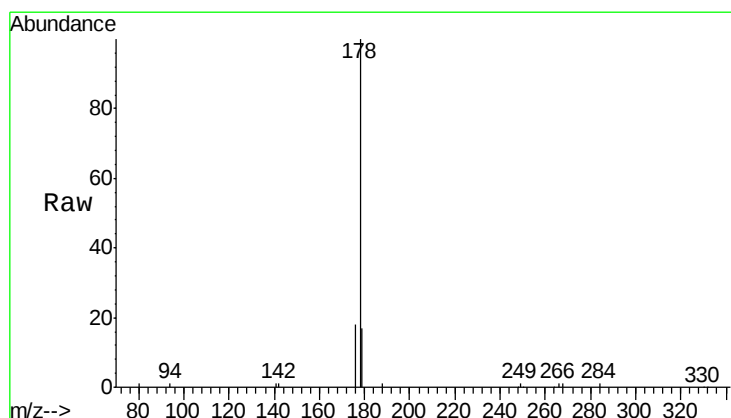
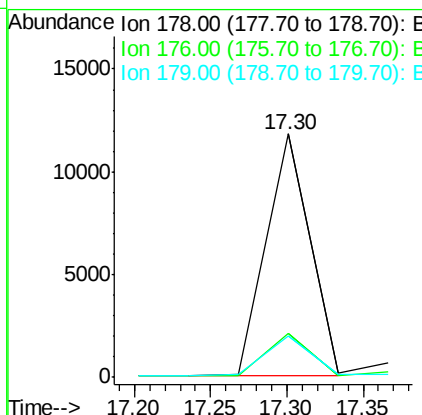
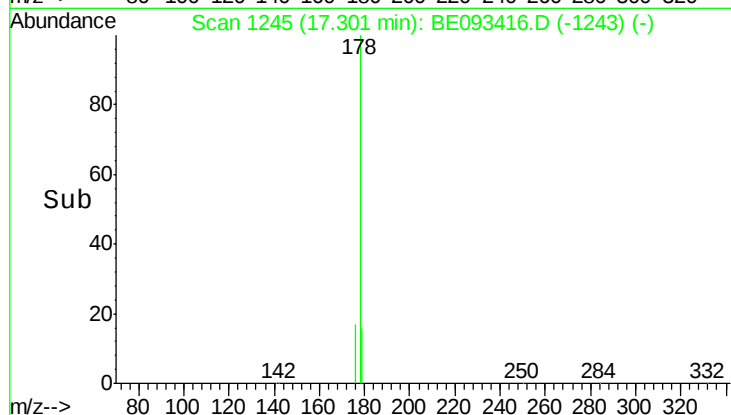




#23
Phenanthrene
Concen: 0.32 ng
RT: 17.30 min Scan# 1245
Delta R.T. -0.00 min
Lab File: BE093416.D
Acq: 2 Jul 2017 16:29

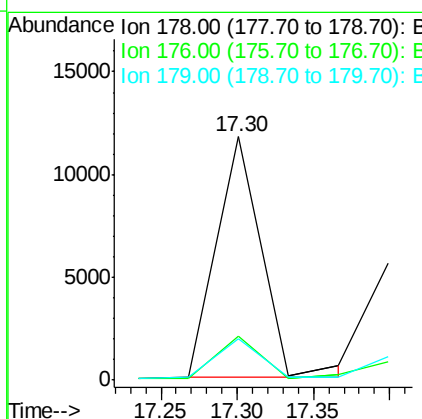
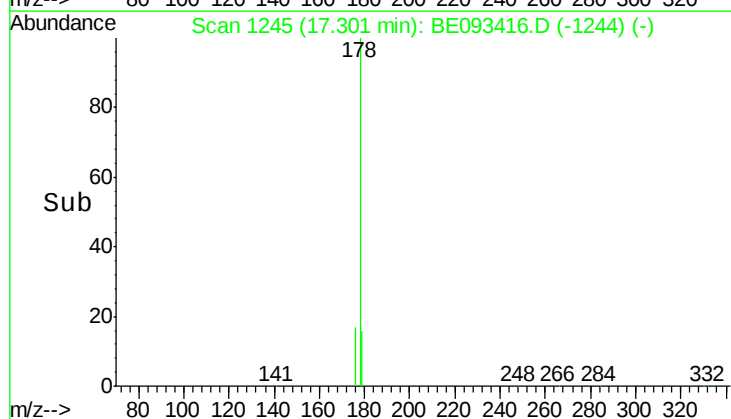
Instrument :
BNA_E
ClientSampleId :
PB100111BSD

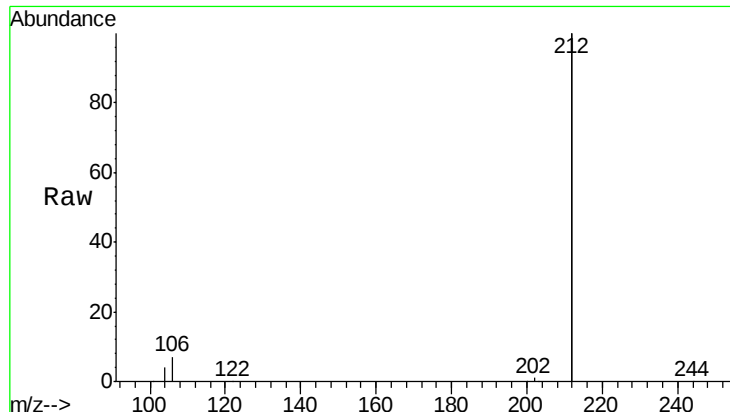
Tgt Ion:178 Resp: 23308
Ion Ratio Lower Upper
178 100
176 17.7 15.0 22.4
179 16.3 12.7 19.1



#24
Anthracene
Concen: 0.54 ng
RT: 17.30 min Scan# 1245
Delta R.T. -0.10 min
Lab File: BE093416.D
Acq: 2 Jul 2017 16:29

Tgt Ion:178 Resp: 23922
Ion Ratio Lower Upper
178 100
176 17.8 14.6 22.0
179 15.7 12.0 18.0

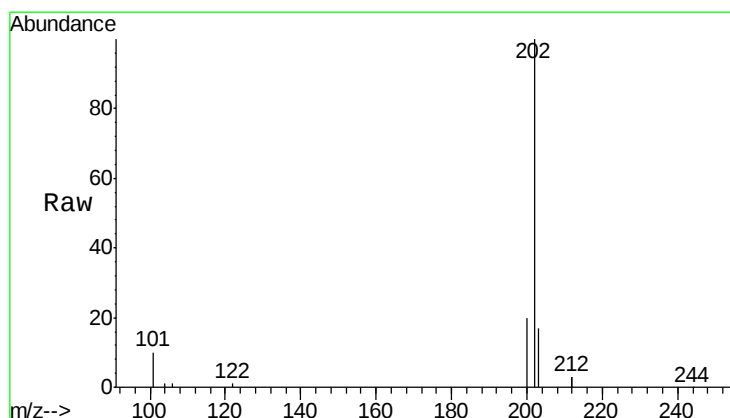
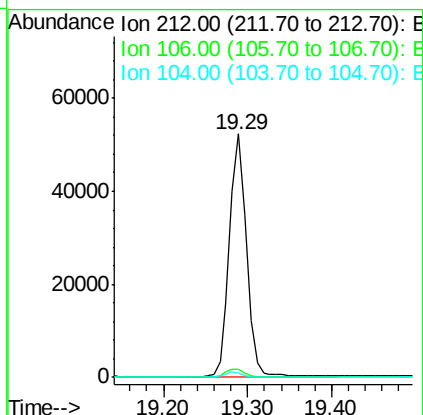
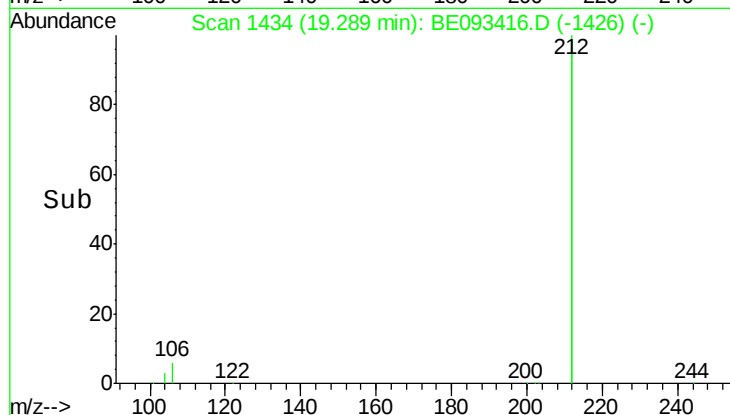




#25
 Fluoranthene-d10
 Concen: 0.30 ng
 RT: 19.29 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: BE093416.D
 Acq: 2 Jul 2017 16:29

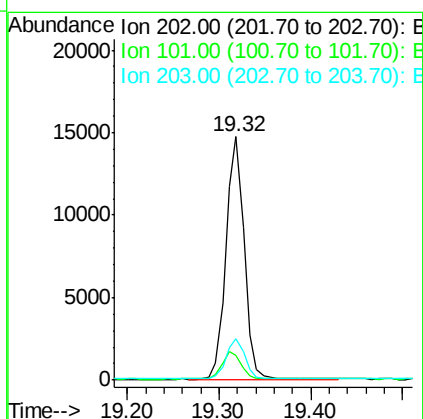
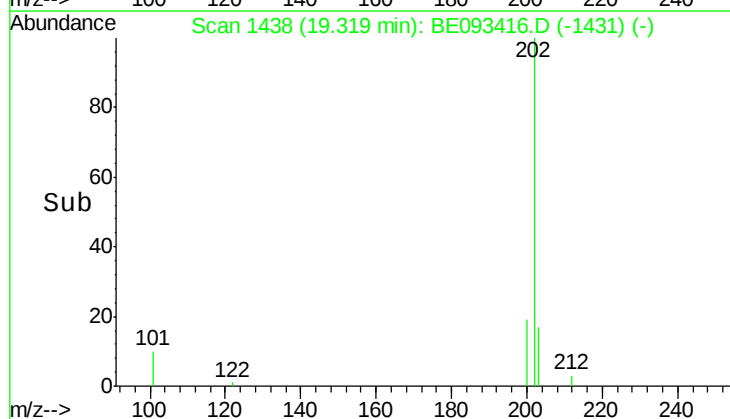
Instrument :
 BNA_E
 ClientSampleId :
 PB100111BSD

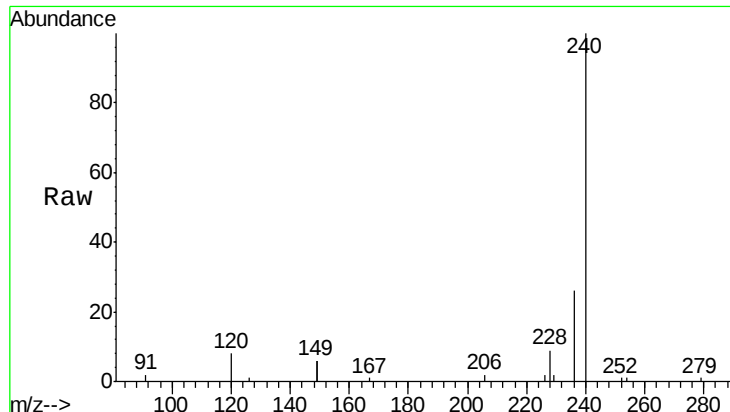
Tgt Ion:212 Resp: 72633
 Ion Ratio Lower Upper
 212 100
 106 3.7 2.4 3.6#
 104 2.0 1.6 2.4



#26
 Fluoranthene
 Concen: 0.29 ng
 RT: 19.32 min Scan# 1438
 Delta R.T. 0.00 min
 Lab File: BE093416.D
 Acq: 2 Jul 2017 16:29

Tgt Ion:202 Resp: 20039
 Ion Ratio Lower Upper
 202 100
 101 12.0 9.6 14.4
 203 16.7 14.4 21.6

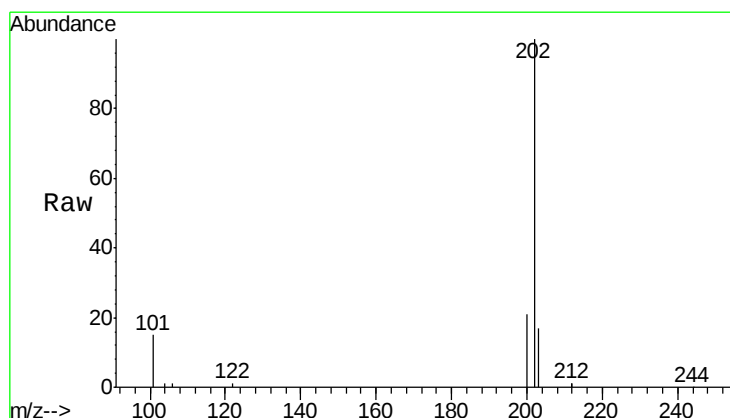
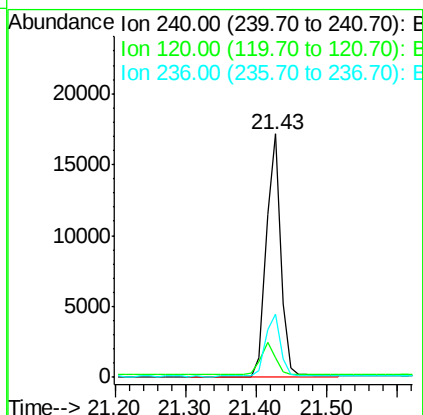
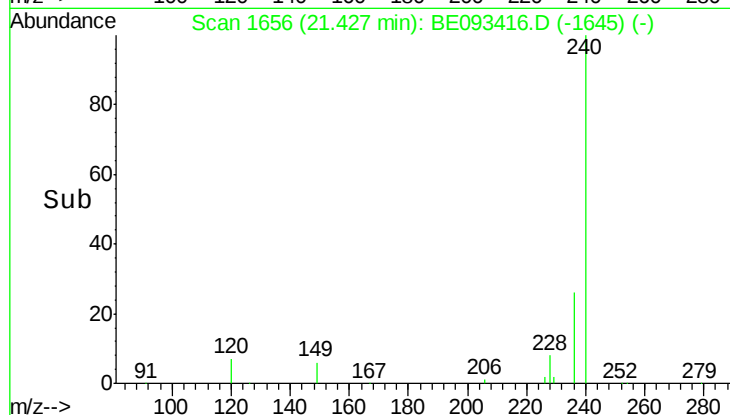




#27
 Chrysene-d12
 Concen: 0.40 ng
 RT: 21.43 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: BE093416.D
 Acq: 2 Jul 2017 16:29

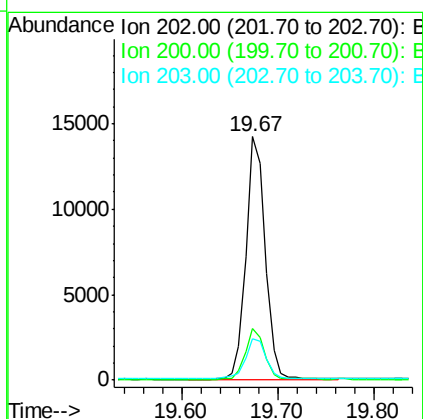
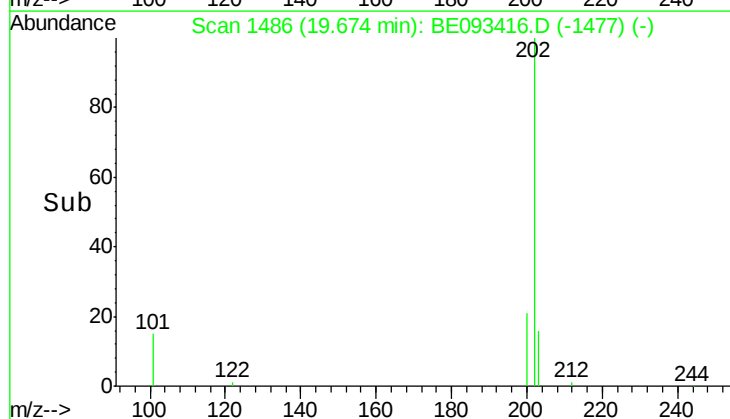
Instrument :
 BNA_E
 ClientSampleId :
 PB100111BSD

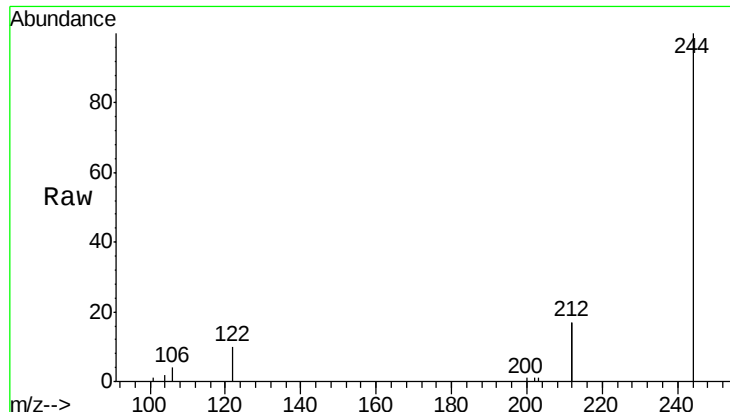
Tgt Ion:240 Resp: 24160
 Ion Ratio Lower Upper
 240 100
 120 8.0 4.6 7.0#
 236 26.0 20.8 31.2



#28
 Pyrene
 Concen: 0.29 ng
 RT: 19.67 min Scan# 1486
 Delta R.T. -0.01 min
 Lab File: BE093416.D
 Acq: 2 Jul 2017 16:29

Tgt Ion:202 Resp: 20013
 Ion Ratio Lower Upper
 202 100
 200 20.7 0.0 0.0#
 203 17.8 13.7 20.5

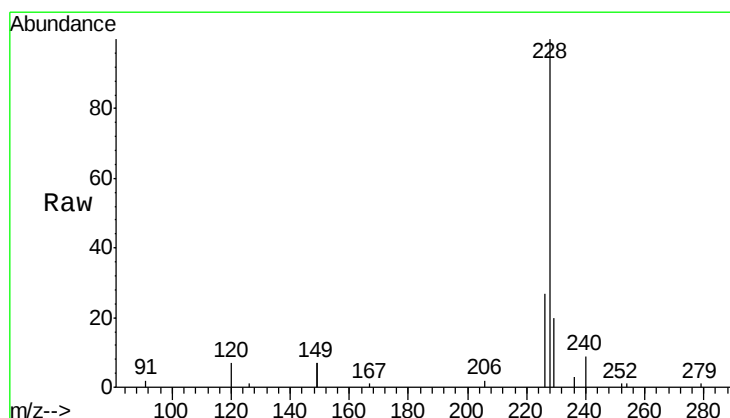
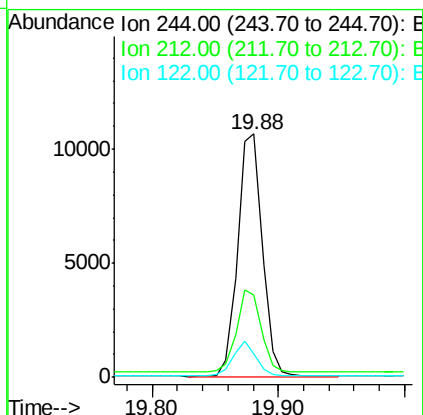
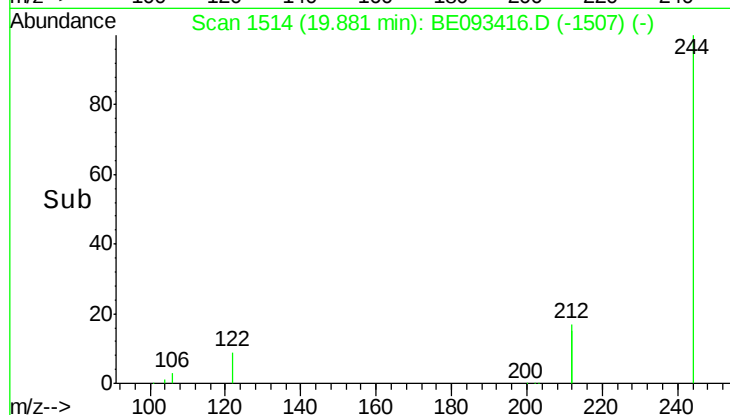




#29
 Terphenyl-d14
 Concen: 0.33 ng
 RT: 19.88 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: BE093416.D
 Acq: 2 Jul 2017 16:29

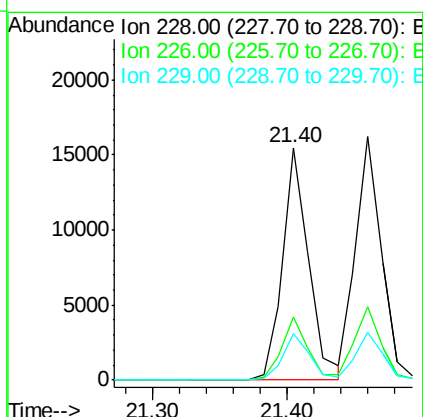
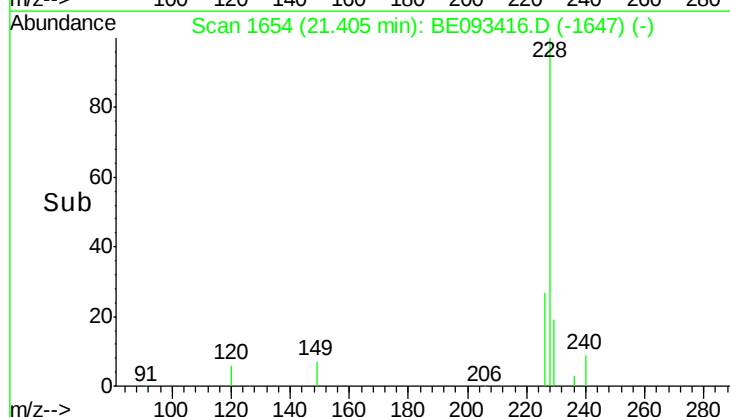
Instrument :
 BNA_E
 ClientSampleId :
 PB100111BSD

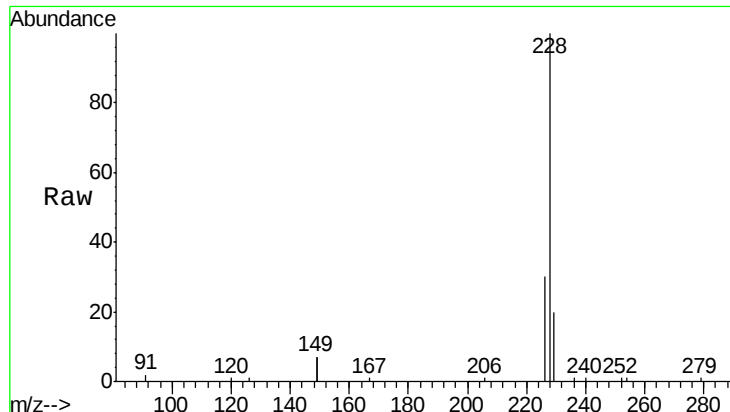
Tgt Ion:244 Resp: 14376
 Ion Ratio Lower Upper
 244 100
 212 33.6 10.6 16.0#
 122 9.8 15.4 23.0#



#30
 Benzo(a)anthracene
 Concen: 0.32 ng
 RT: 21.40 min Scan# 1654
 Delta R.T. 0.00 min
 Lab File: BE093416.D
 Acq: 2 Jul 2017 16:29

Tgt Ion:228 Resp: 20964
 Ion Ratio Lower Upper
 228 100
 226 27.1 19.7 29.5
 229 19.8 19.2 28.8





#31

Chrysene

Concen: 0.32 ng

RT: 21.46 min Scan# 1659

Delta R.T. 0.00 min

Lab File: BE093416.D

Acq: 2 Jul 2017 16:29

Instrument :

BNA_E

ClientSampleId :

PB100111BSD

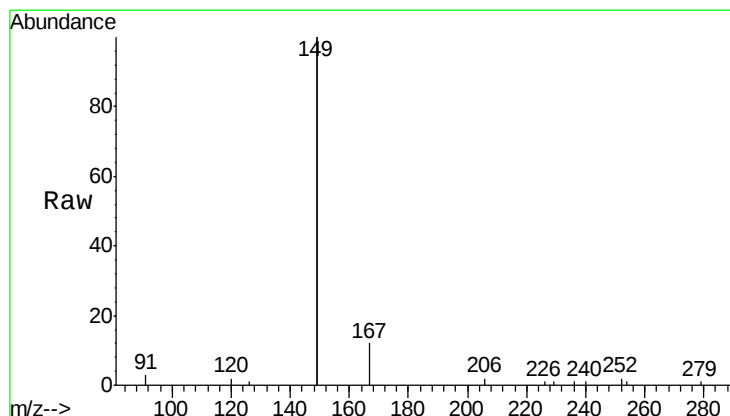
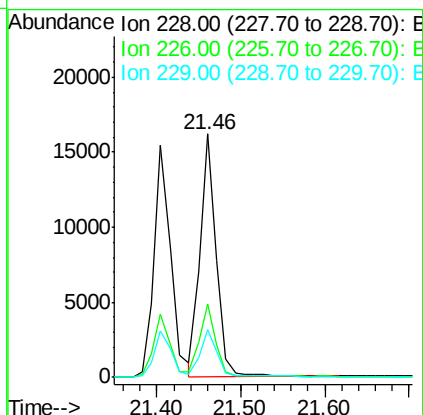
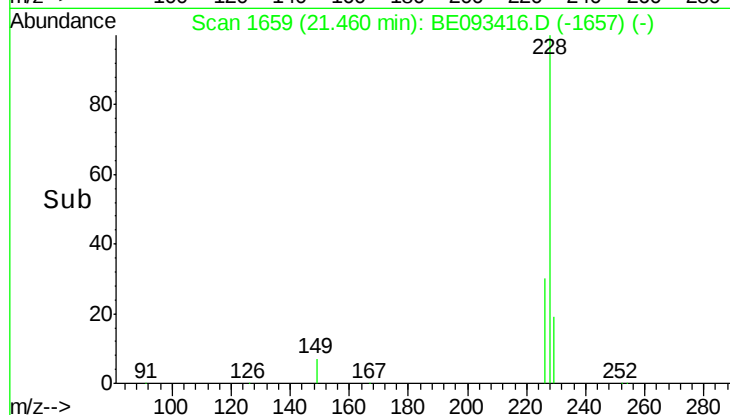
Tgt Ion:228 Resp: 21848

Ion Ratio Lower Upper

228 100

226 30.0 21.5 32.3

229 19.6 18.6 28.0



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.24 ng

RT: 21.33 min Scan# 1647

Delta R.T. -0.01 min

Lab File: BE093416.D

Acq: 2 Jul 2017 16:29

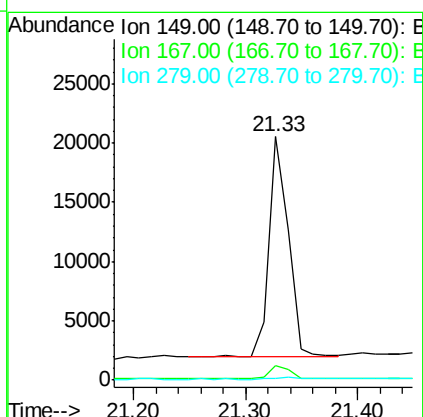
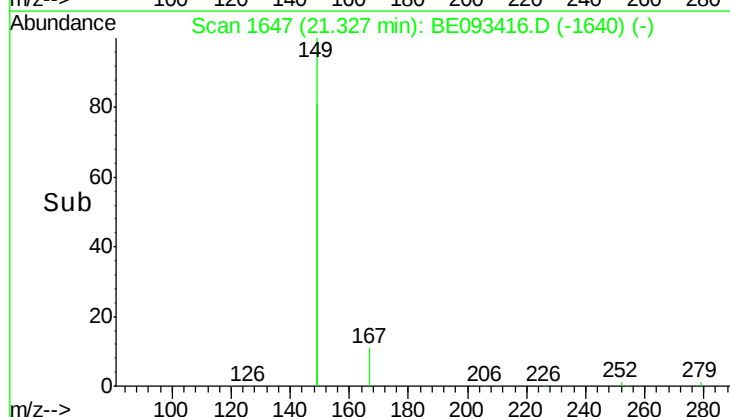
Tgt Ion:149 Resp: 22322

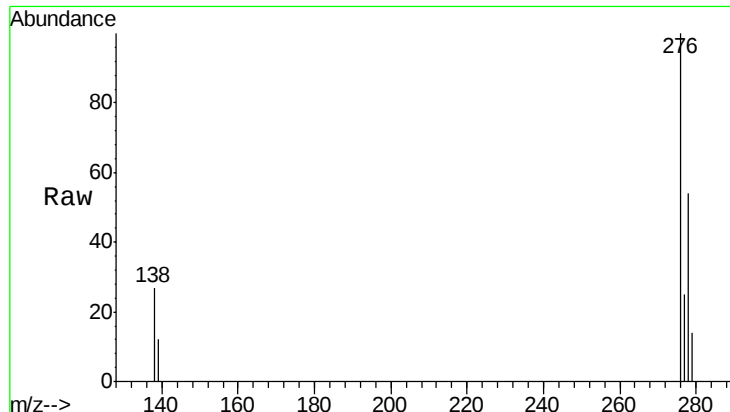
Ion Ratio Lower Upper

149 100

167 6.4 20.1 30.1#

279 1.0 2.2 3.4#

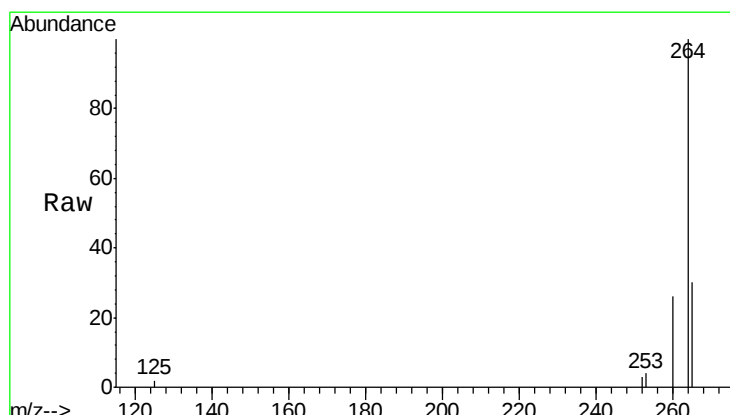
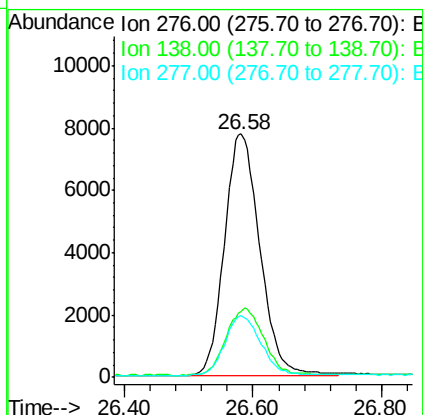
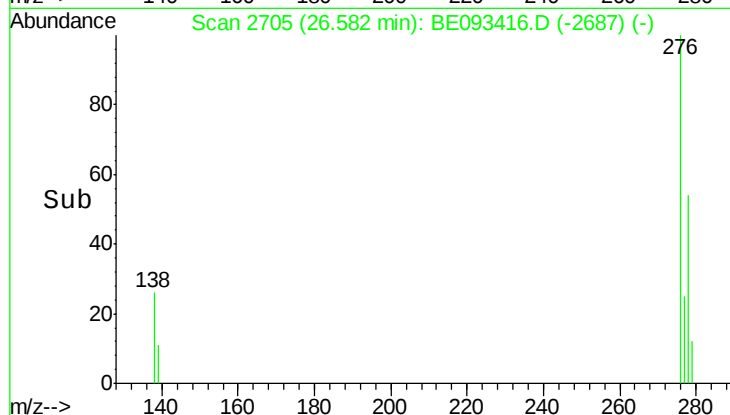




#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.50 ng
 RT: 26.58 min Scan# 2705
 Delta R.T. -0.01 min
 Lab File: BE093416.D
 Acq: 2 Jul 2017 16:29

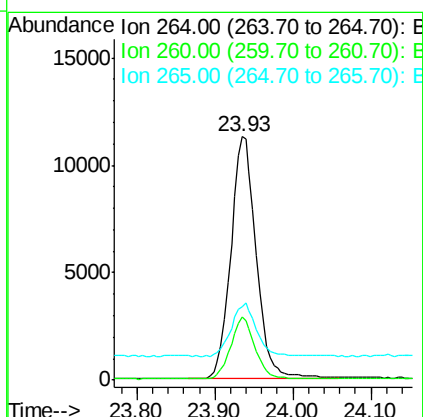
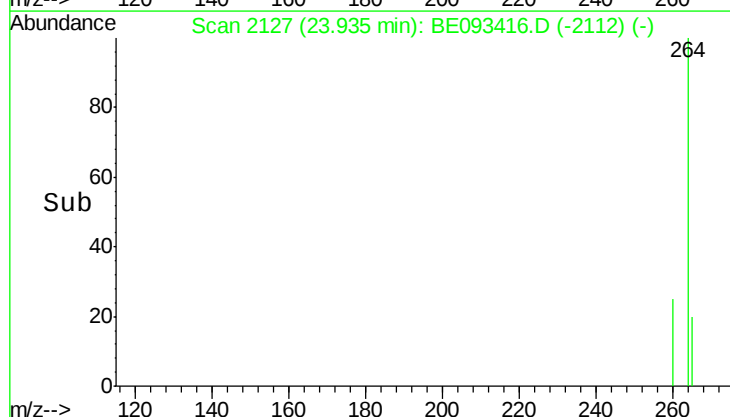
Instrument :
 BNA_E
 ClientSampleId :
 PB100111BSD

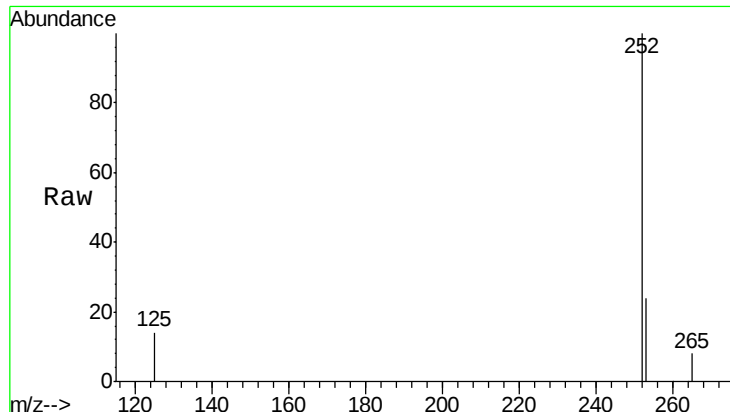
Tgt Ion:276 Resp: 29679
 Ion Ratio Lower Upper
 276 100
 138 28.7 27.4 41.2
 277 24.9 20.1 30.1



#34
 Perylene-d12
 Concen: 0.40 ng
 RT: 23.93 min Scan# 2127
 Delta R.T. -0.00 min
 Lab File: BE093416.D
 Acq: 2 Jul 2017 16:29

Tgt Ion:264 Resp: 25466
 Ion Ratio Lower Upper
 264 100
 260 25.8 21.0 31.4
 265 30.4 24.6 36.8

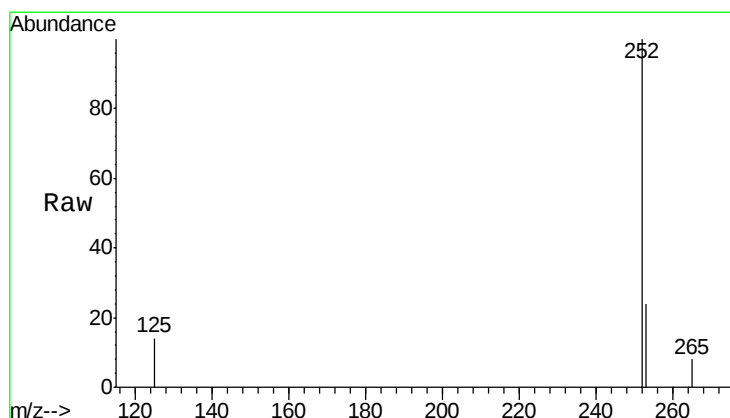
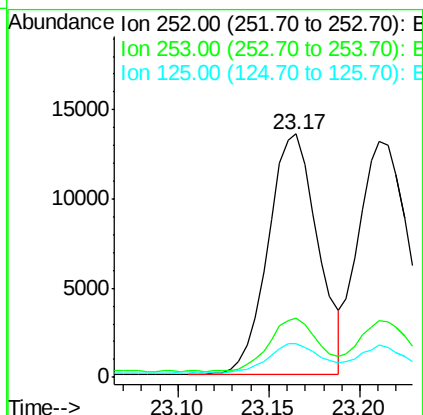
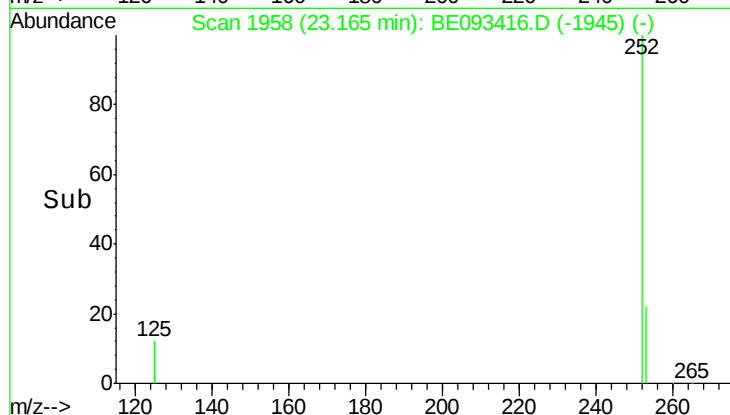




#35
Benzo(b)fluoranthene
Concen: 0.31 ng
RT: 23.17 min Scan# 1958
Delta R.T. 0.00 min
Lab File: BE093416.D
Acq: 2 Jul 2017 16:29

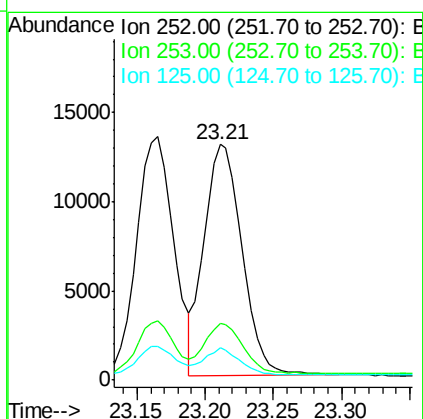
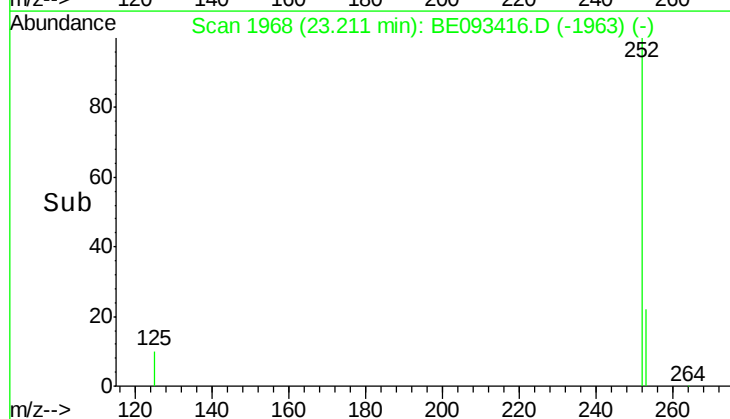
Instrument :
BNA_E
ClientSampleId :
PB100111BSD

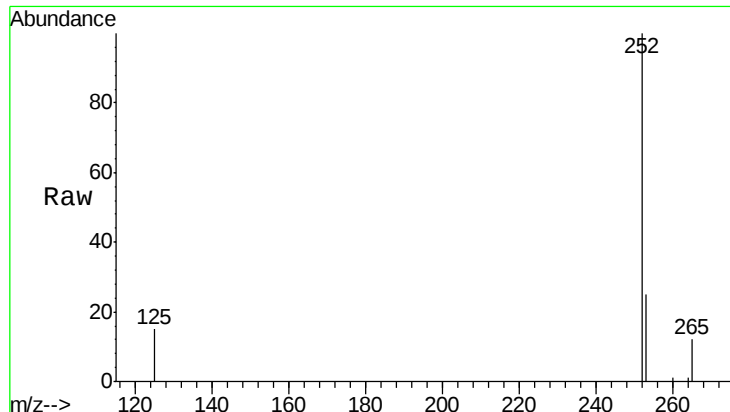
Tgt Ion:252 Resp: 25573
Ion Ratio Lower Upper
252 100
253 24.2 18.5 27.7
125 13.7 13.4 20.0



#36
Benzo(k)fluoranthene
Concen: 0.31 ng
RT: 23.21 min Scan# 1968
Delta R.T. -0.01 min
Lab File: BE093416.D
Acq: 2 Jul 2017 16:29

Tgt Ion:252 Resp: 25168
Ion Ratio Lower Upper
252 100
253 24.1 20.3 30.5
125 13.5 12.2 18.4





#37

Benzo(a)pyrene

Concen: 0.31 ng

RT: 23.82 min Scan# 2102

Delta R.T. -0.00 min

Lab File: BE093416.D

Acq: 2 Jul 2017 16:29

Instrument :

BNA_E

ClientSampleId :

PB100111BSD

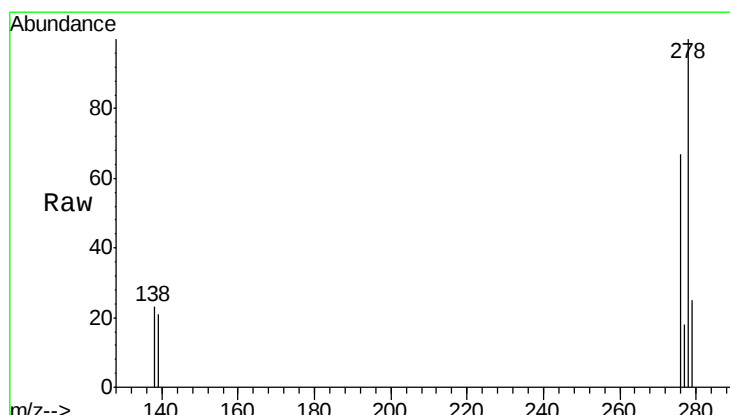
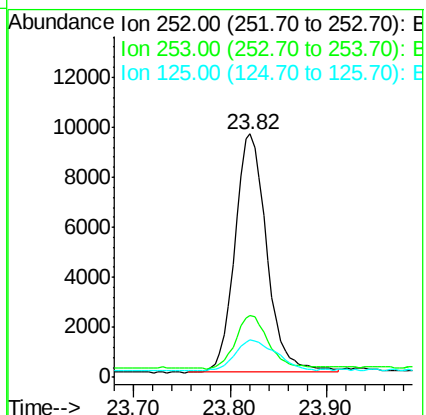
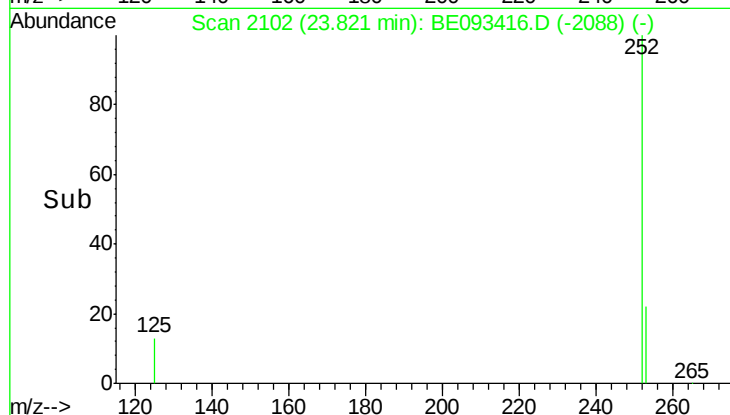
Tgt Ion:252 Resp: 22017

Ion Ratio Lower Upper

252 100

253 25.2 19.9 29.9

125 15.4 14.6 21.8



#38

Dibenzo(a,h)anthracene

Concen: 0.37 ng

RT: 26.60 min Scan# 2710

Delta R.T. -0.01 min

Lab File: BE093416.D

Acq: 2 Jul 2017 16:29

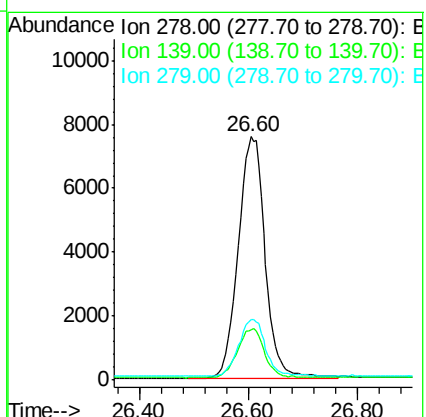
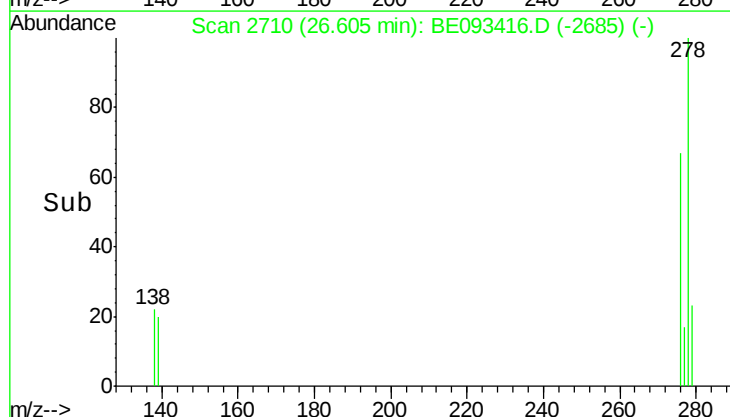
Tgt Ion:278 Resp: 25855

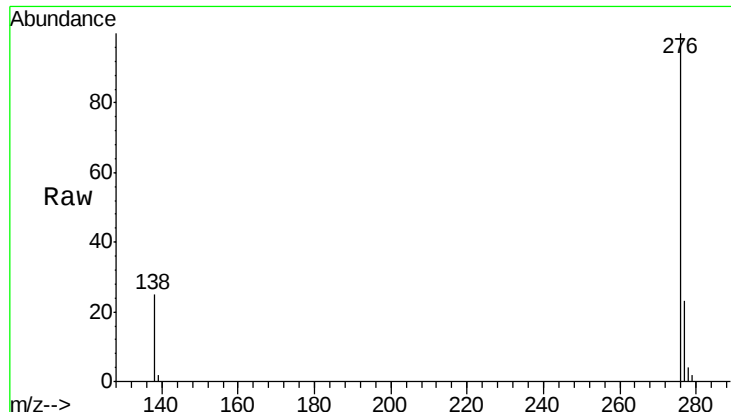
Ion Ratio Lower Upper

278 100

139 20.6 21.4 32.0#

279 24.7 22.2 33.2





#39

Benzo(g,h,i)perylene

Concen: 0.36 ng

RT: 27.40 min Scan# 2884

Delta R.T. -0.00 min

Lab File: BE093416.D

Acq: 2 Jul 2017 16:29

Instrument :

BNA_E

ClientSampleId :

PB100111BSD

Tgt Ion:276 Resp: 25644

Ion Ratio Lower Upper

276 100

277 23.4 21.2 31.8

138 24.8 24.5 36.7

