

Data Path : Z:\HPCHEM1\BNA E\DATA\BE032817\
 Data File : BE092838.D
 Acq On : 28 Mar 2017 15:55
 Operator : SJ/MA
 Sample : I2194-21DL 5X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WPDL

Quant Time: Mar 28 16:26:55 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE032817.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 28 14:58:05 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.80	152	7360	5.00	ng	0.00
7) Naphthalene-d8	10.54	136	31838	5.00	ng	0.00
12) Acenaphthene-d10	14.40	164	15741	5.00	ng	0.00
18) Phenanthrene-d10	17.16	188	36034	5.00	ng	0.00
24) Chrysene-d12	21.28	240	39818	5.00	ng	-0.02
31) Perylene-d12	23.71	264	35479	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.36	112	2811	1.64	ng	0.00
5) Phenol-d6	6.94	99	4069	1.62	ng	0.00
8) Nitrobenzene-d5	8.92	82	1195	0.65	ng	0.00
13) 2,4,6-Tribromophenol	15.88	330	335	1.36	ng	0.00
14) 2-Fluorobiphenyl	13.03	172	4265	0.82	ng	0.00
26) Terphenyl-d14	19.76	244	4788	0.70	ng	0.00

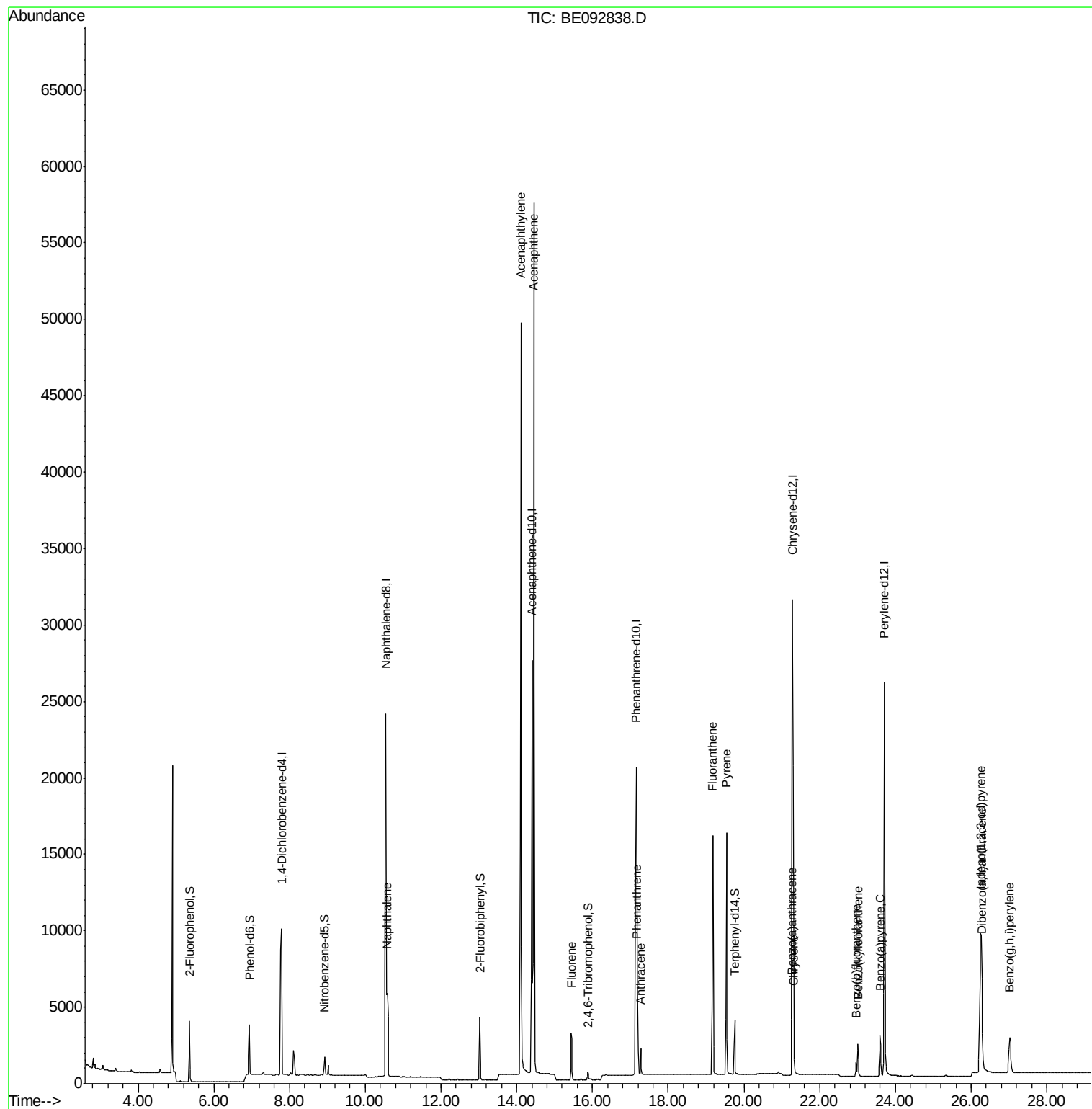
Target Compounds						Qvalue
9) Naphthalene	10.58	128	9093	1.30	ng	# 95
15) Acenaphthylene	14.11	152	66181	2.74	ng	100
16) Acenaphthene	14.45	154	11510	2.67	ng	93
17) Fluorene	15.44	166	2315	0.45	ng	98
21) Phenanthrene	17.18	178	7468	0.85	ng	# 94
22) Anthracene	17.27	178	2263	0.28	ng	99
23) Fluoranthene	19.18	202	18101	0.45	ng	99
25) Pyrene	19.54	202	17988	0.45	ng	99
27) Benzo(a)anthracene	21.26	228	2113	0.22	ng	93
28) Chrysene	21.31	228	2115	0.21	ng	# 83
30) Indeno(1,2,3-cd)pyrene	26.25	276	19968	0.53	ng	# 89
32) Benzo(b)fluoranthene	22.96	252	1306	0.14	ng	# 87
33) Benzo(k)fluoranthene	23.02	252	3081	0.36	ng	# 96
34) Benzo(a)pyrene	23.60	252	4396	0.56	ng	98
35) Dibenzo(a,h)anthracene	26.29	278	5707	0.69	ng	100
36) Benzo(g,h,i)perylene	27.02	276	5353	0.16	ng	# 82

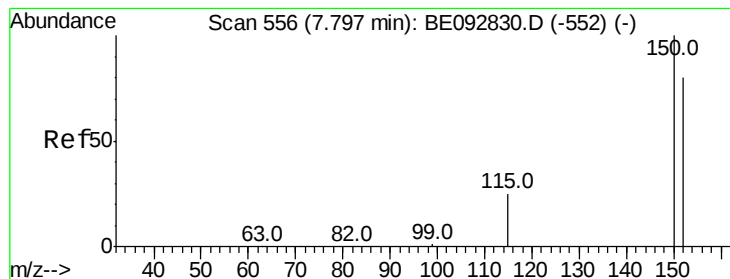
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.80 min Scan# 556

Delta R.T. -0.00 min

Lab File: BE092838.D

Acq: 28 Mar 2017 15:55

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

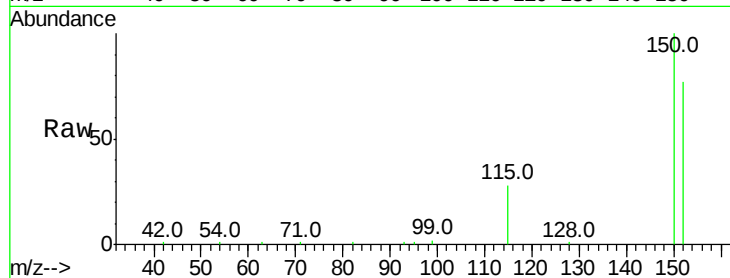
Tot Ion:152 Resp: 7360

Ion Ratio Lower Upper

152 100

150 129.6 106.0 159.0

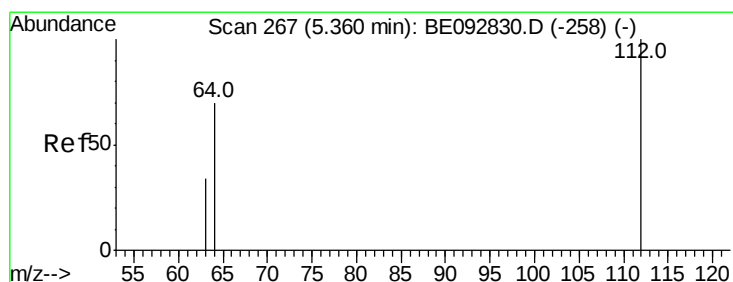
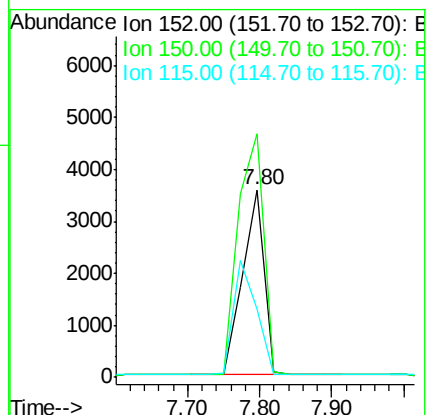
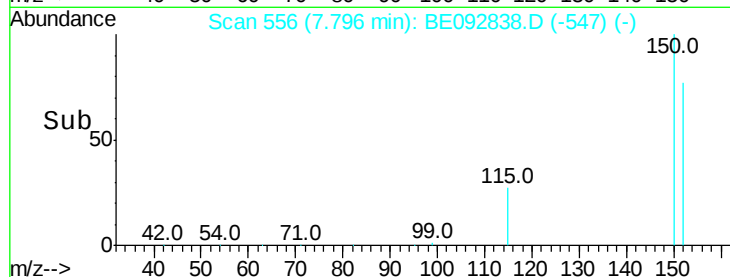
115 36.4 31.2 46.8



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



#4

2-Fluorophenol

Concen: 1.64 ng

RT: 5.36 min Scan# 267

Delta R.T. -0.00 min

Lab File: BE092838.D

Acq: 28 Mar 2017 15:55

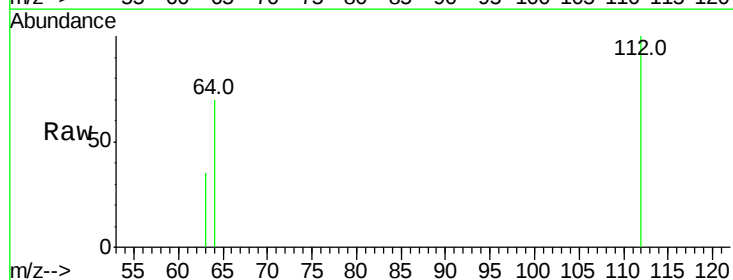
Tgt Ion:112 Resp: 2811

Ion Ratio Lower Upper

112 100

64 69.2 53.5 80.3

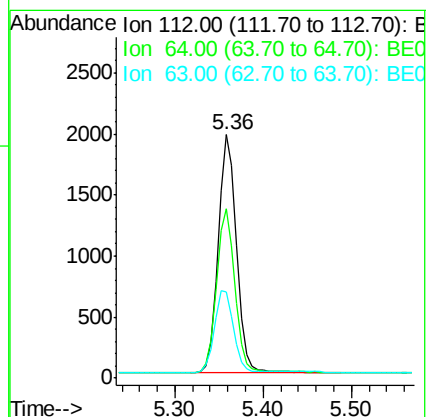
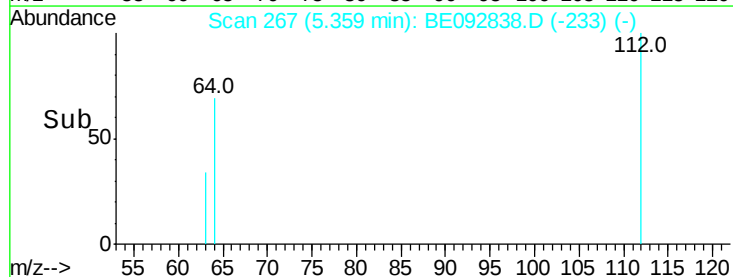
63 35.6 27.9 41.9

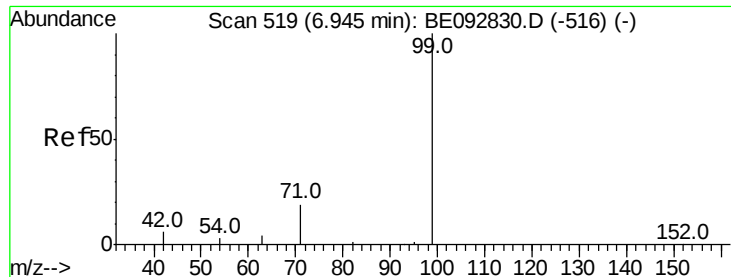


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 1.62 ng

RT: 6.94 min Scan# 519

Delta R.T. -0.00 min

Lab File: BE092838.D

Acq: 28 Mar 2017 15:55

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

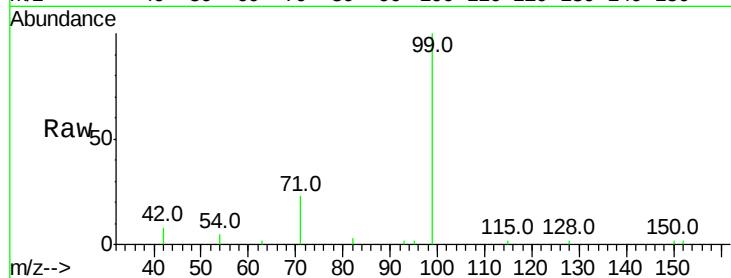
Tot Ion: 99 Resp: 4069

Ion Ratio Lower Upper

99 100

42 0.0 16.0 24.0#

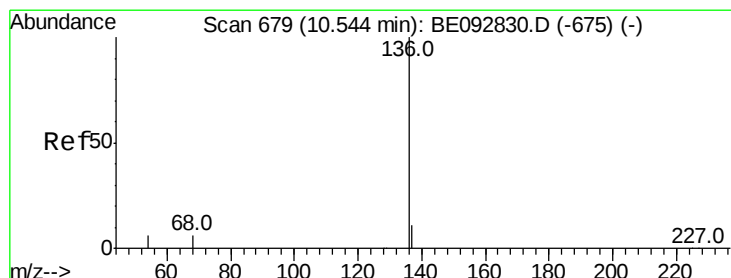
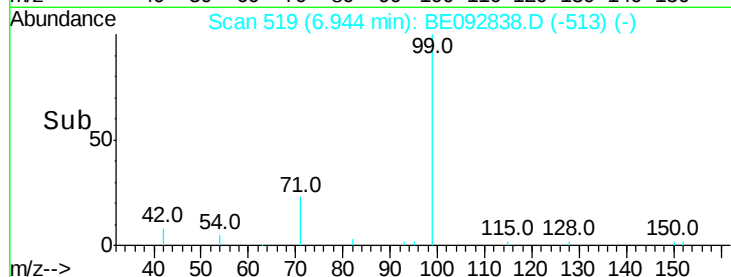
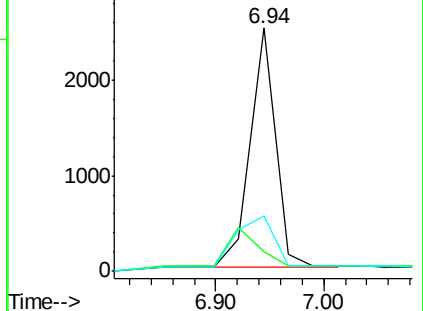
71 31.8 30.6 45.8



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



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.54 min Scan# 679

Delta R.T. 0.00 min

Lab File: BE092838.D

Acq: 28 Mar 2017 15:55

Tgt Ion: 136 Resp: 31838

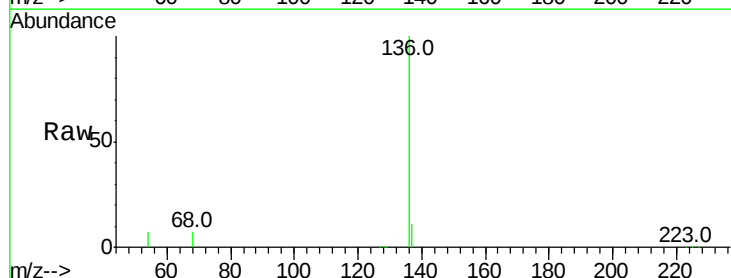
Ion Ratio Lower Upper

136 100

137 11.2 8.2 12.4

54 7.3 9.6 14.4#

68 6.6 6.7 10.1#

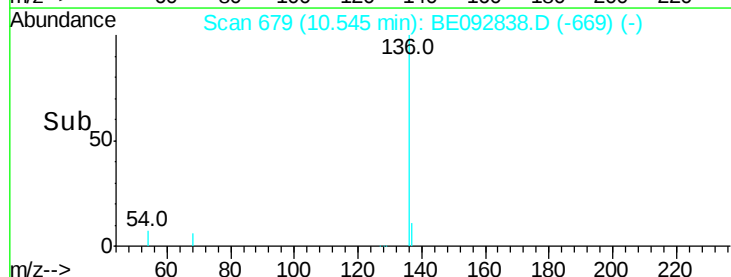
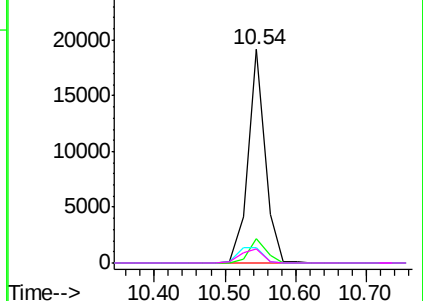


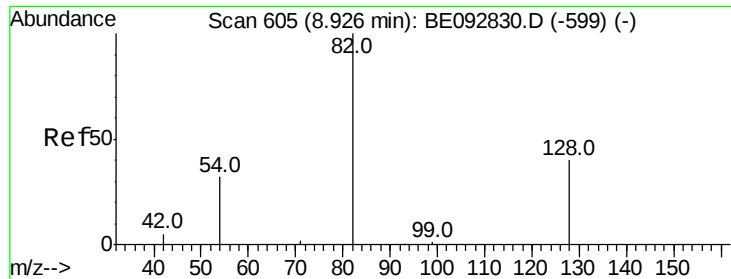
Abundance Ion 136.00 (135.70 to 136.70): E

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

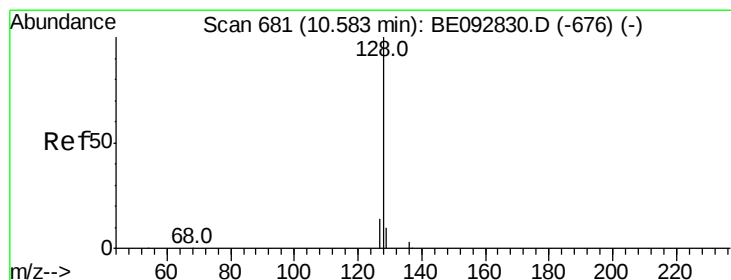
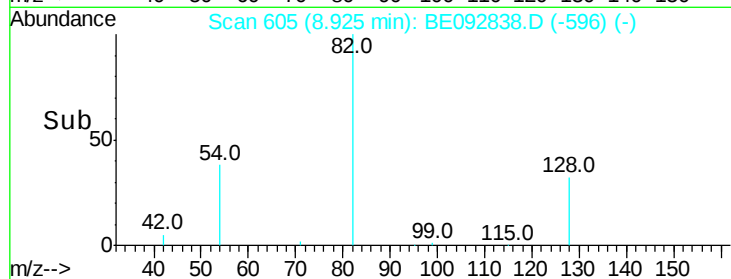
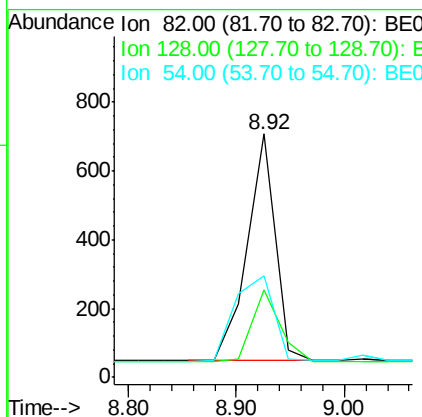
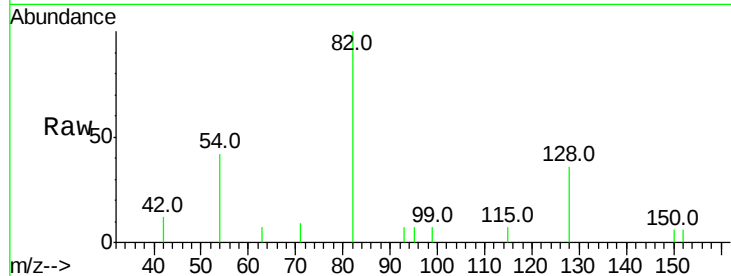




#8
 Nitrobenzene-d5
 Concen: 0.65 ng
 RT: 8.92 min Scan# 605
 Delta R.T. -0.00 min
 Lab File: BE092838.D
 Acq: 28 Mar 2017 15:55

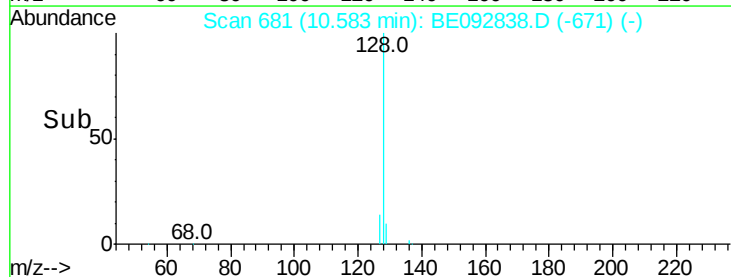
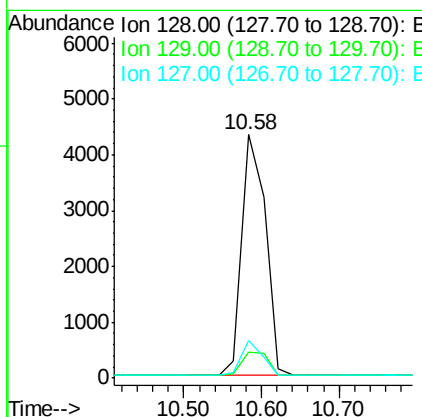
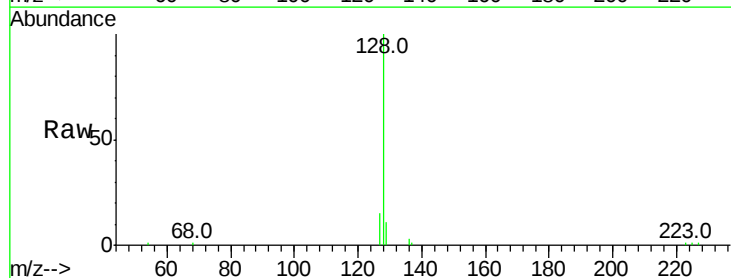
Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WPDL

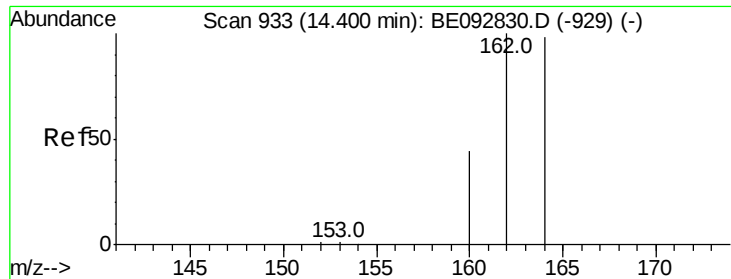
Tot Ion: 82 Resp: 1195
 Ion Ratio Lower Upper
 82 100
 128 36.2 39.0 58.4#
 54 41.9 44.8 67.2#



#9
 Naphthalene
 Concen: 1.30 ng
 RT: 10.58 min Scan# 681
 Delta R.T. 0.00 min
 Lab File: BE092838.D
 Acq: 28 Mar 2017 15:55

Tgt Ion: 128 Resp: 9093
 Ion Ratio Lower Upper
 128 100
 129 10.8 11.2 16.8#
 127 15.3 11.6 17.4





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.40 min Scan# 933

Delta R.T. -0.00 min

Lab File: BE092838.D

Acq: 28 Mar 2017 15:55

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

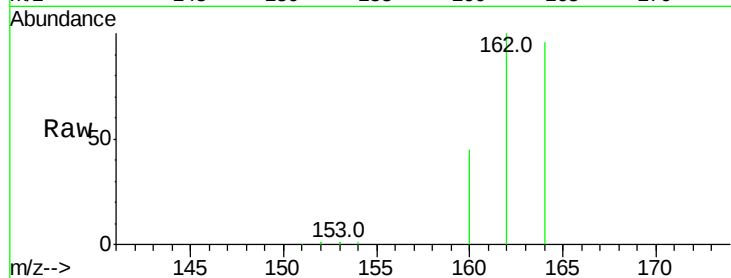
Tot Ion:164 Resp: 15741

Ion Ratio Lower Upper

164 100

162 103.8 71.4 107.0

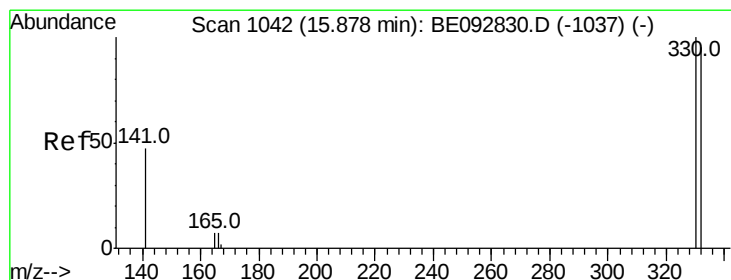
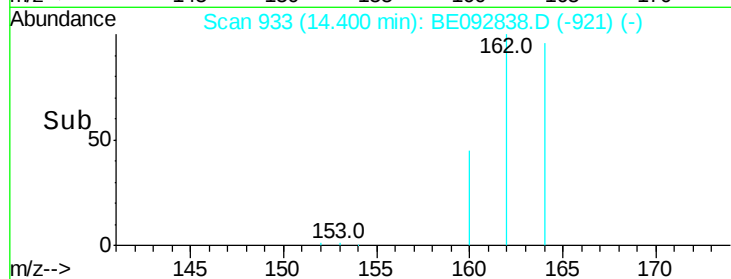
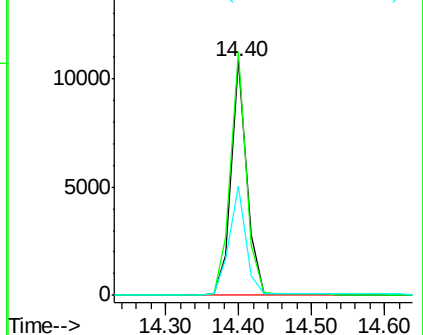
160 46.7 27.4 41.2#



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#13

2,4,6-Tribromophenol

Concen: 1.36 ng

RT: 15.88 min Scan# 1042

Delta R.T. -0.00 min

Lab File: BE092838.D

Acq: 28 Mar 2017 15:55

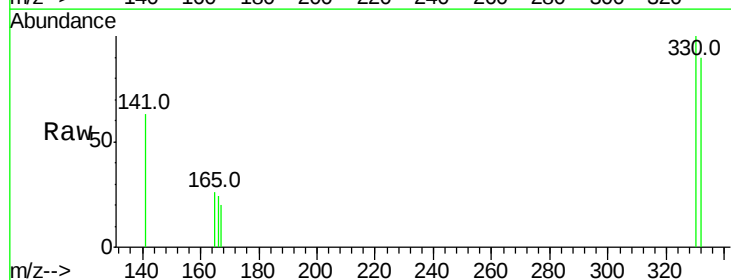
Tgt Ion:330 Resp: 335

Ion Ratio Lower Upper

330 100

332 95.5 75.4 113.0

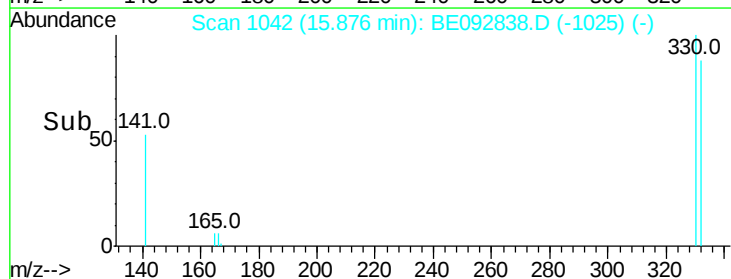
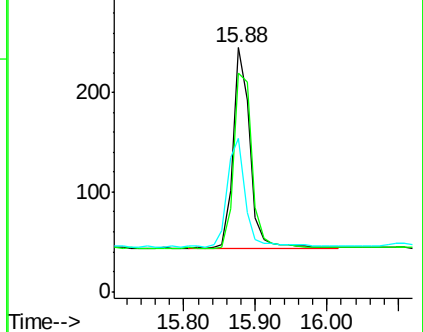
141 57.9 31.0 46.6#

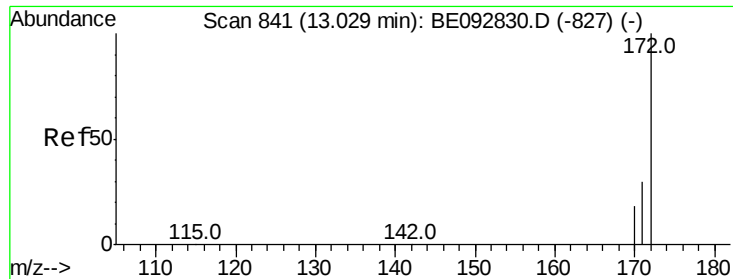


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

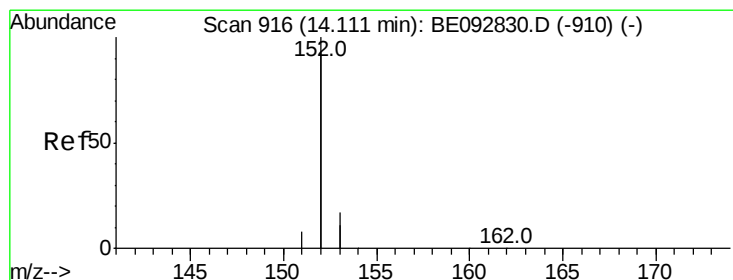
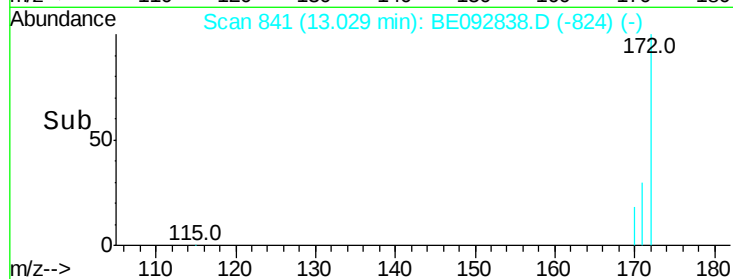
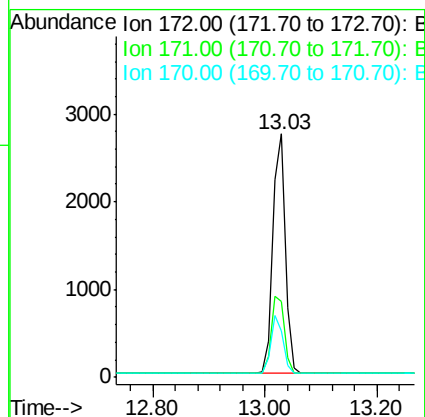
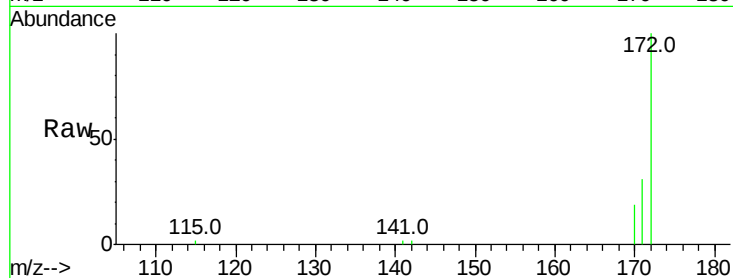




#14
2-Fluorobiphenyl
Concen: 0.82 ng
RT: 13.03 min Scan# 841
Delta R.T. 0.00 min
Lab File: BE092838.D
Acq: 28 Mar 2017 15:55

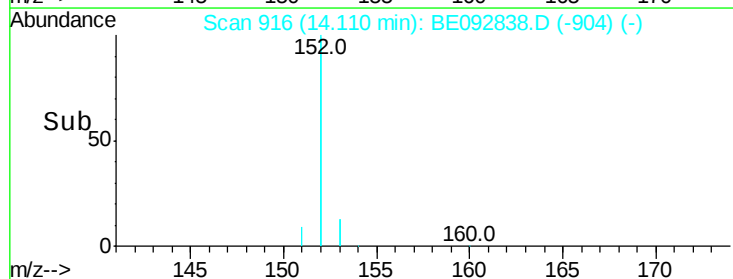
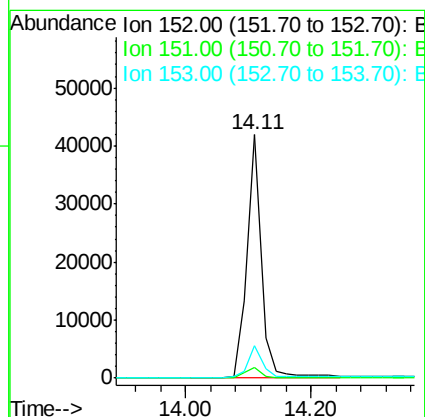
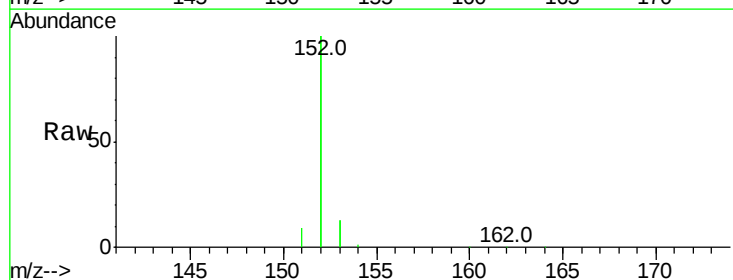
Instrument :
BNA_E
ClientSampleId :
RR-PAH-WPDL

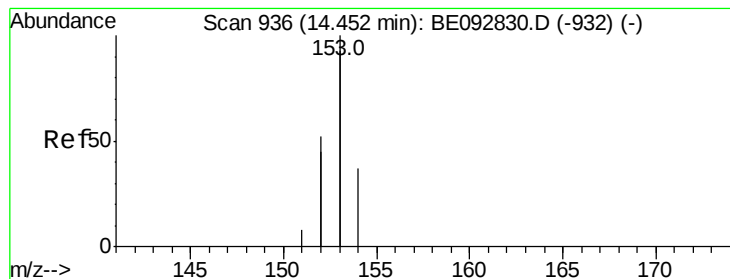
Tot Ion:172 Resp: 4265
Ion Ratio Lower Upper
172 100
171 31.4 30.1 45.1
170 19.2 21.8 32.6#



#15
Acenaphthylene
Concen: 2.74 ng
RT: 14.11 min Scan# 916
Delta R.T. -0.00 min
Lab File: BE092838.D
Acq: 28 Mar 2017 15:55

Tgt Ion:152 Resp: 66181
Ion Ratio Lower Upper
152 100
151 4.9 3.9 5.9
153 13.0 10.4 15.6





#16

Acenaphthene

Concen: 2.67 ng

RT: 14.45 min Scan# 936

Delta R.T. -0.00 min

Lab File: BE092838.D

Acq: 28 Mar 2017 15:55

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

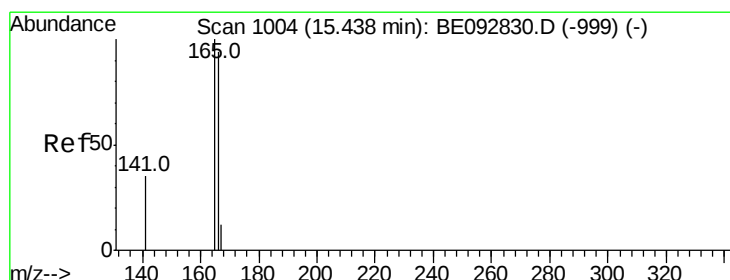
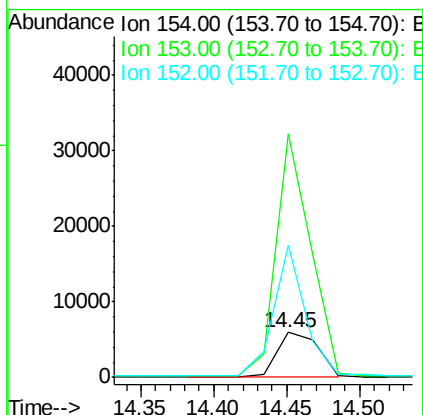
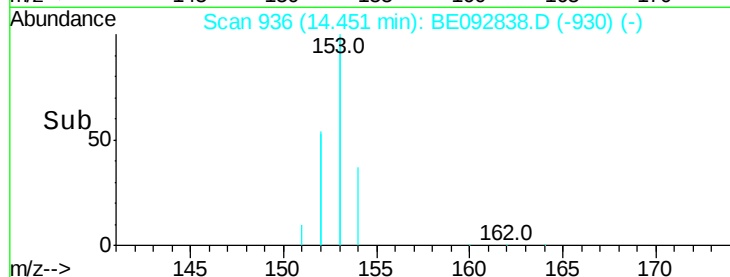
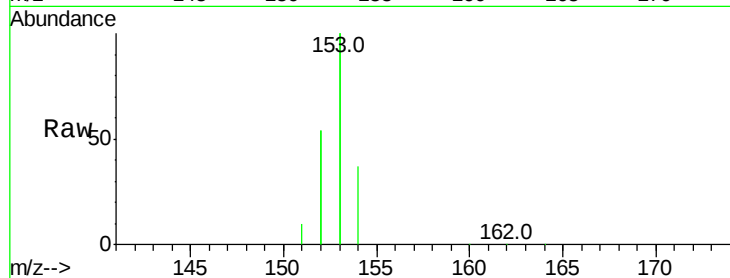
Tot Ion:154 Resp: 11510

Ion Ratio Lower Upper

154 100

153 458.0 350.8 526.2

152 223.6 171.1 256.7



#17

Fluorene

Concen: 0.45 ng

RT: 15.44 min Scan# 1004

Delta R.T. -0.00 min

Lab File: BE092838.D

Acq: 28 Mar 2017 15:55

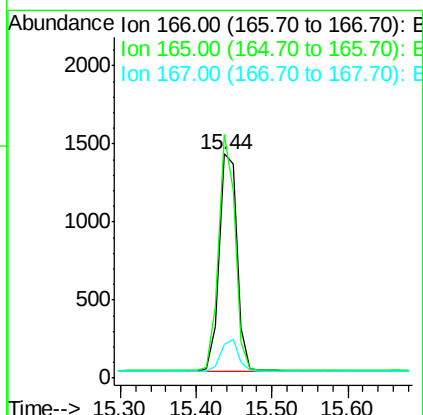
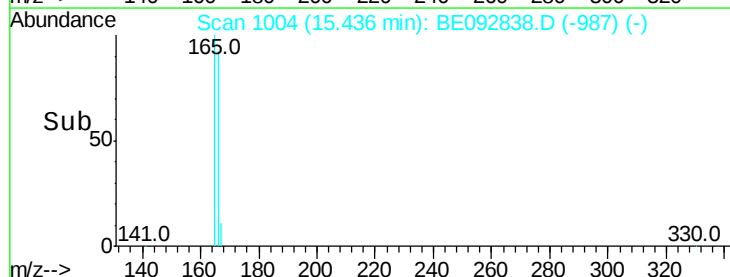
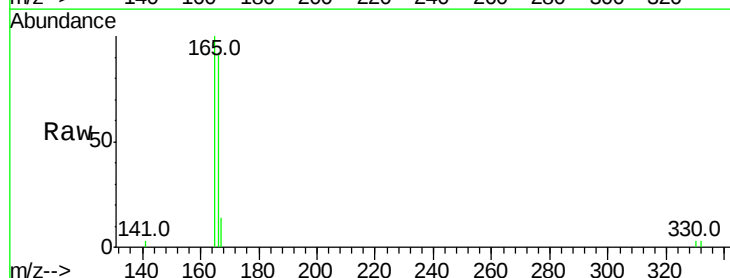
Tgt Ion:166 Resp: 2315

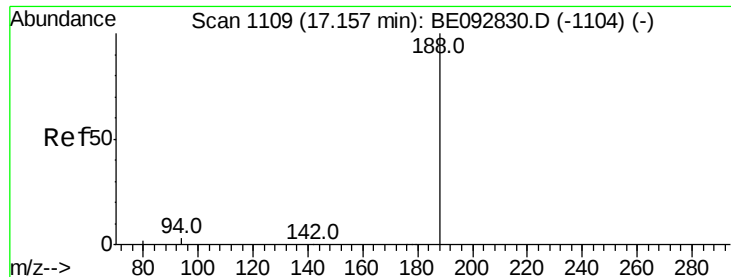
Ion Ratio Lower Upper

166 100

165 99.8 78.2 117.4

167 13.8 11.0 16.4

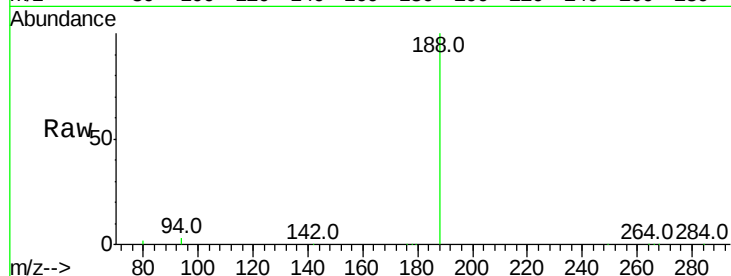




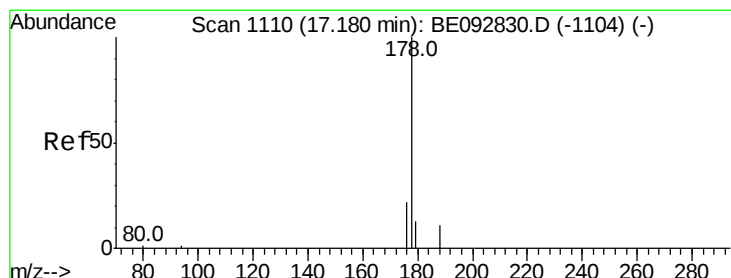
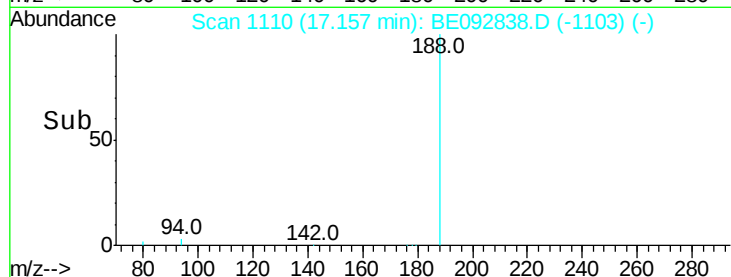
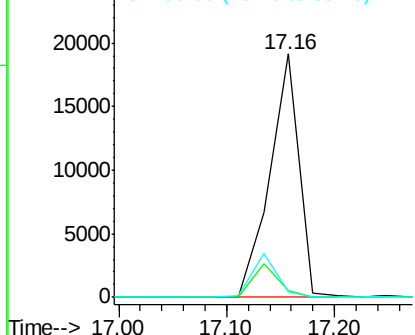
#18
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.16 min Scan# 1110
Delta R.T. 0.00 min
Lab File: BE092838.D
Acq: 28 Mar 2017 15:55

Instrument :
BNA_E
ClientSampleId :
RR-PAH-WPDL

Tot Ion:188 Resp: 36034
Ion Ratio Lower Upper
188 100
94 3.0 3.2 4.8#
80 2.4 2.6 3.8#

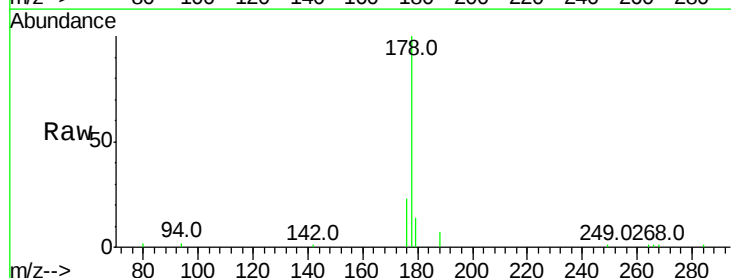


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

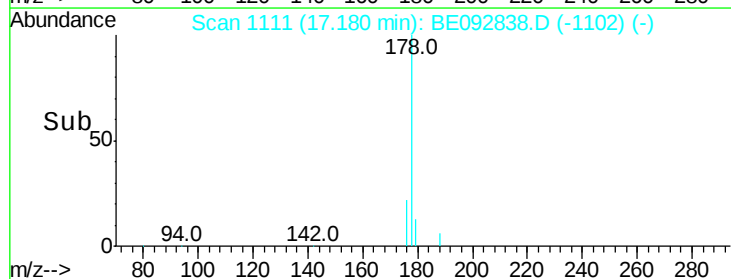
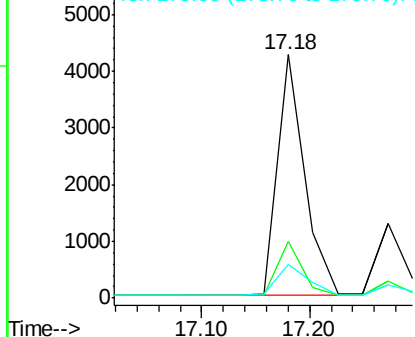


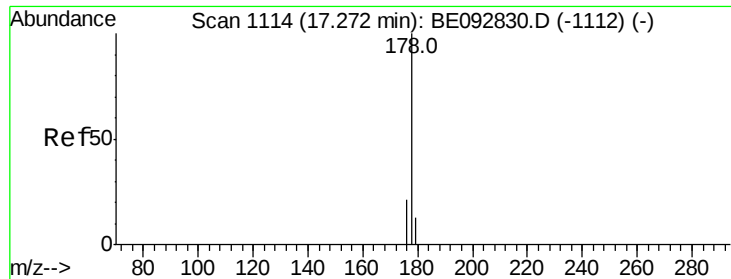
#21
Phenanthrene
Concen: 0.85 ng
RT: 17.18 min Scan# 1111
Delta R.T. 0.00 min
Lab File: BE092838.D
Acq: 28 Mar 2017 15:55

Tgt Ion:178 Resp: 7468
Ion Ratio Lower Upper
178 100
176 20.7 15.8 23.8
179 15.0 16.0 24.0#



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#22

Anthracene

Concen: 0.28 ng

RT: 17.27 min Scan# 1115

Delta R.T. 0.00 min

Lab File: BE092838.D

Acq: 28 Mar 2017 15:55

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

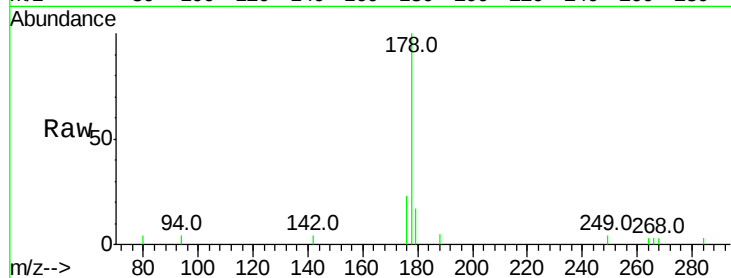
Tot Ion:178 Resp: 2263

Ion Ratio Lower Upper

178 100

176 19.4 15.0 22.4

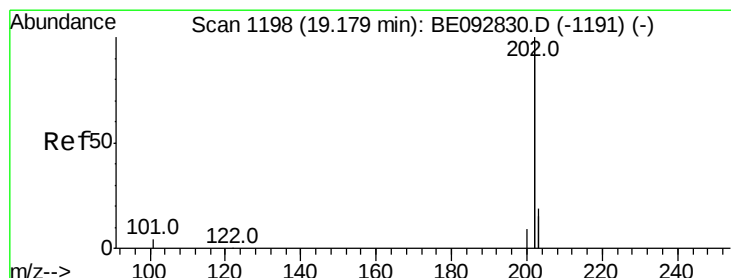
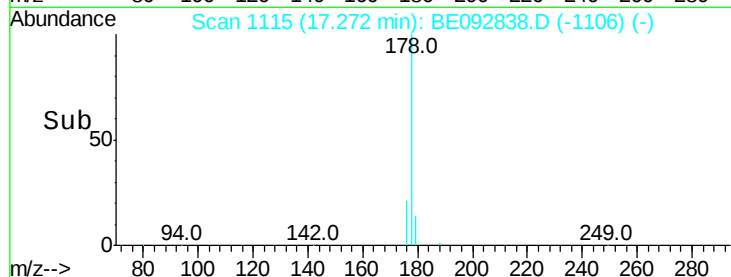
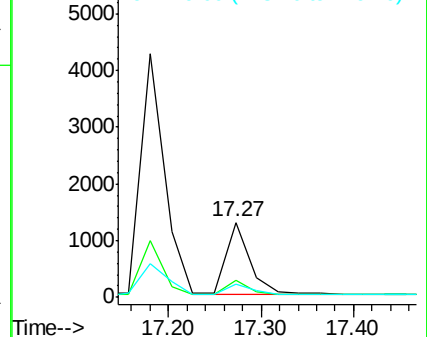
179 14.7 12.2 18.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#23

Fluoranthene

Concen: 0.45 ng

RT: 19.18 min Scan# 1199

Delta R.T. 0.00 min

Lab File: BE092838.D

Acq: 28 Mar 2017 15:55

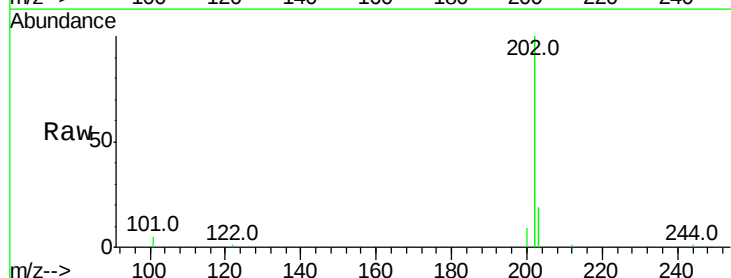
Tgt Ion:202 Resp: 18101

Ion Ratio Lower Upper

202 100

101 3.1 2.2 3.4

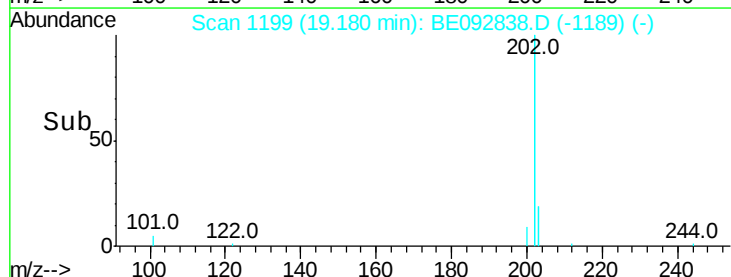
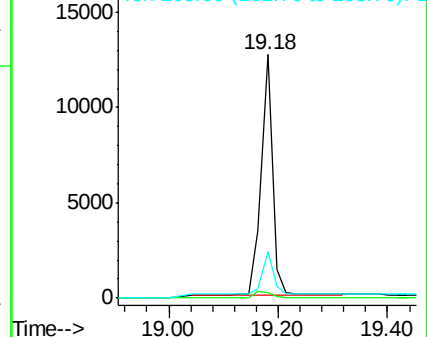
203 17.3 13.7 20.5

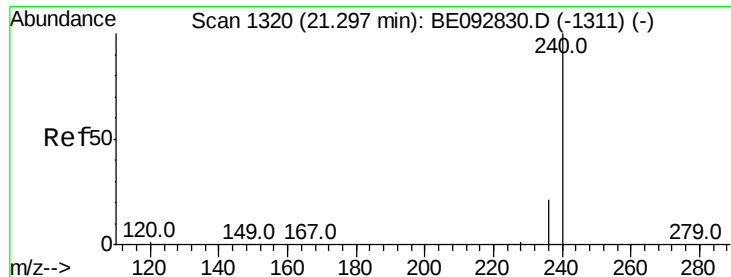


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

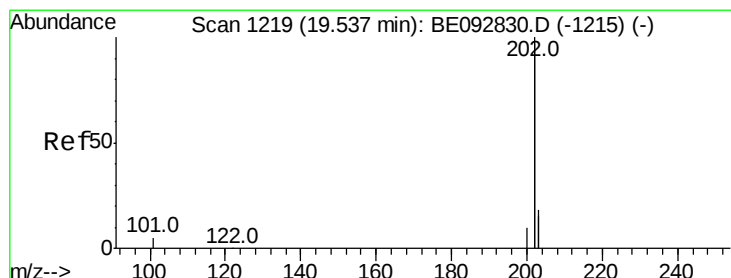
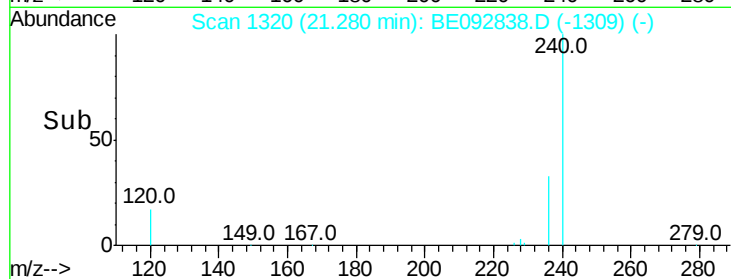
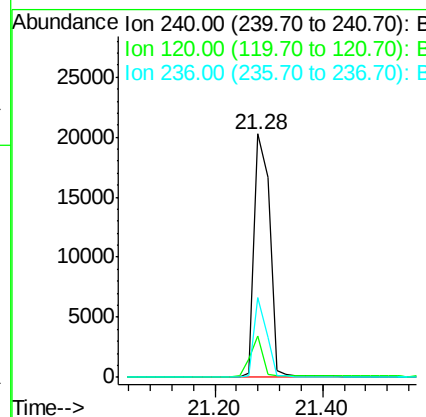
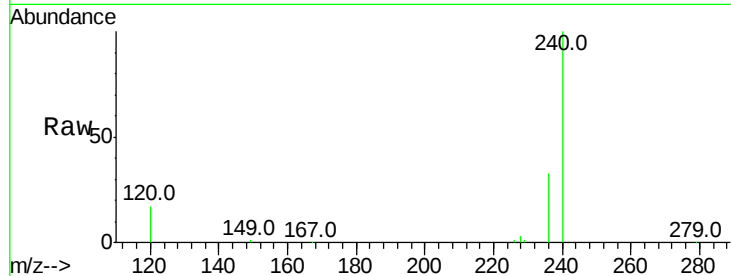




#24
Chrysene-d12
Concen: 5.00 ng
RT: 21.28 min Scan# 1320
Delta R.T. -0.02 min
Lab File: BE092838.D
Acq: 28 Mar 2017 15:55

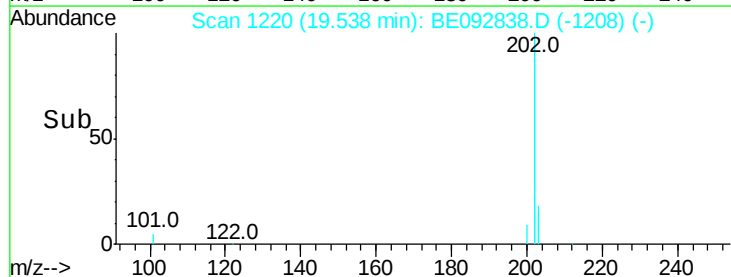
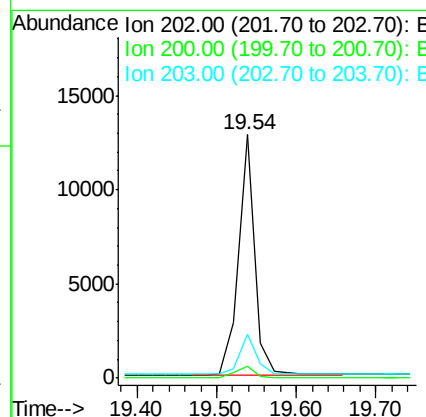
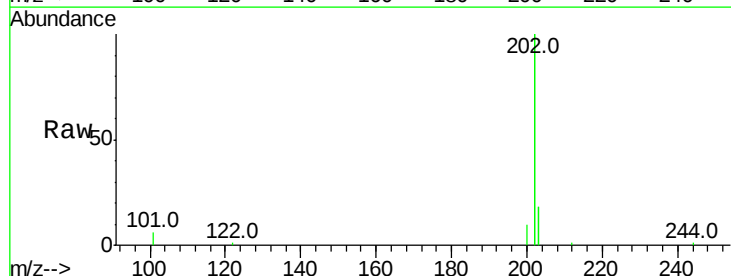
Instrument :
BNA_E
ClientSampleId :
RR-PAH-WPDL

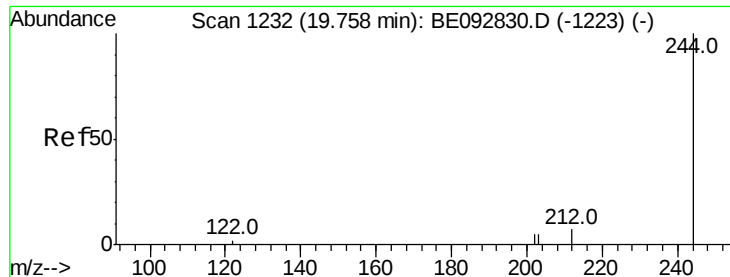
Tot Ion:240 Resp: 39818
Ion Ratio Lower Upper
240 100
120 16.9 2.6 4.0#
236 32.9 24.6 37.0



#25
Pyrene
Concen: 0.45 ng
RT: 19.54 min Scan# 1220
Delta R.T. 0.00 min
Lab File: BE092838.D
Acq: 28 Mar 2017 15:55

Tgt Ion:202 Resp: 17988
Ion Ratio Lower Upper
202 100
200 5.1 4.2 6.4
203 17.8 13.9 20.9





#26

Terphenyl-d14

Concen: 0.70 ng

RT: 19.76 min Scan# 1233

Delta R.T. 0.00 min

Lab File: BE092838.D

Acq: 28 Mar 2017 15:55

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

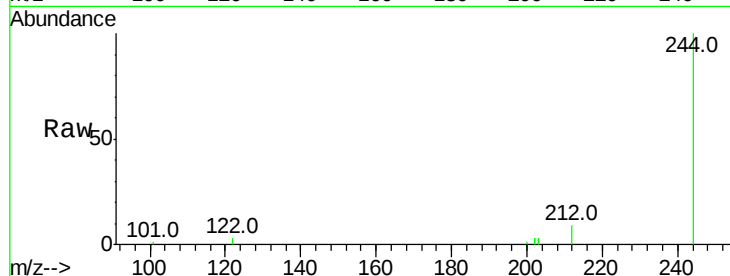
Tot Ion:244 Resp: 4788

Ion Ratio Lower Upper

244 100

212 8.6 6.7 10.1

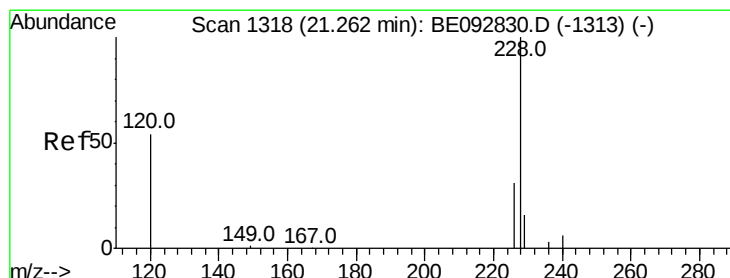
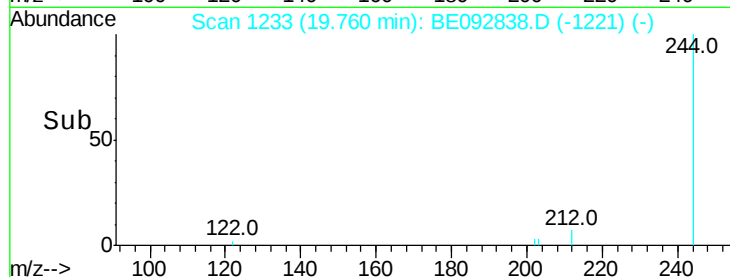
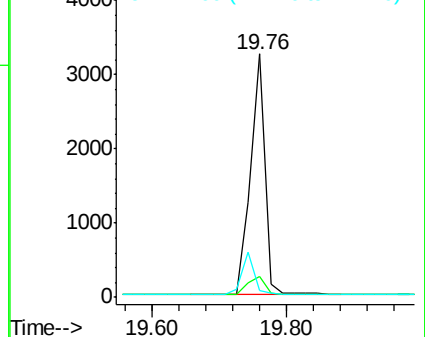
122 3.0 3.6 5.4#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#27

Benzo(a)anthracene

Concen: 0.22 ng

RT: 21.26 min Scan# 1319

Delta R.T. 0.00 min

Lab File: BE092838.D

Acq: 28 Mar 2017 15:55

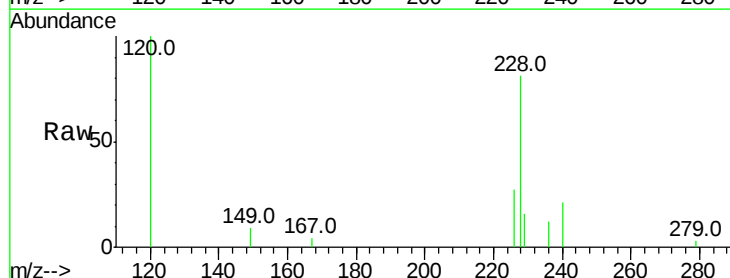
Tgt Ion:228 Resp: 2113

Ion Ratio Lower Upper

228 100

226 33.3 23.6 35.4

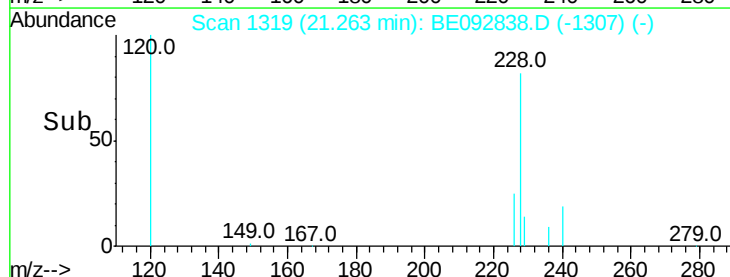
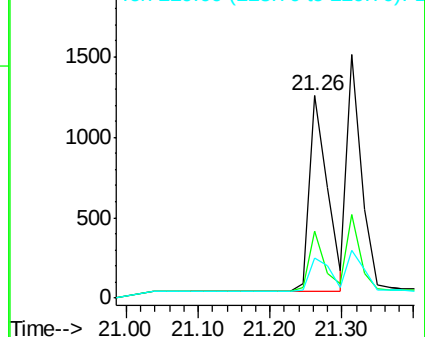
229 19.6 13.3 19.9

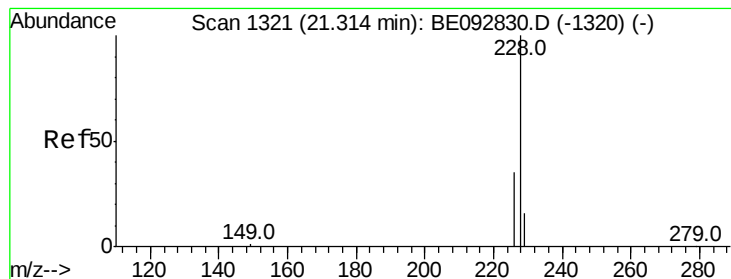


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#28

Chrysene

Concen: 0.21 ng

RT: 21.31 min Scan# 1322

Delta R.T. 0.00 min

Lab File: BE092838.D

Acq: 28 Mar 2017 15:55

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

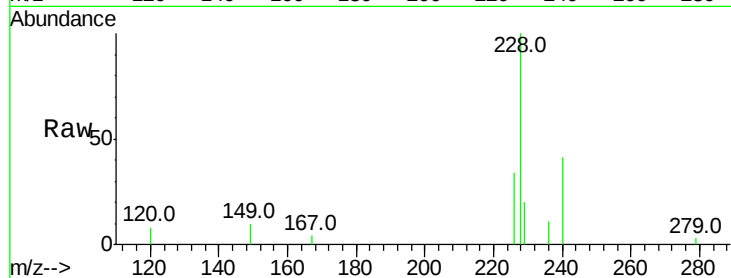
Tot Ion:228 Resp: 2115

Ion Ratio Lower Upper

228 100

226 34.5 36.3 54.5#

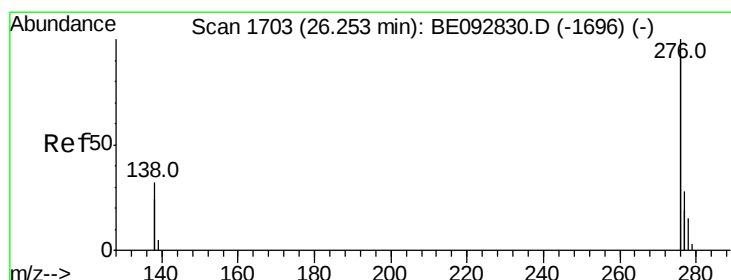
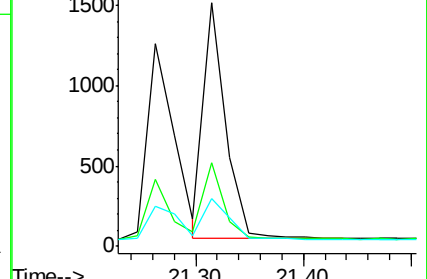
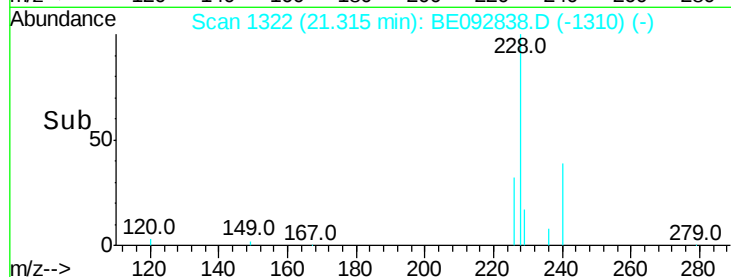
229 19.9 10.6 16.0#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#30

Indeno(1,2,3-cd)pyrene

Concen: 0.53 ng

RT: 26.25 min Scan# 1704

Delta R.T. 0.00 min

Lab File: BE092838.D

Acq: 28 Mar 2017 15:55

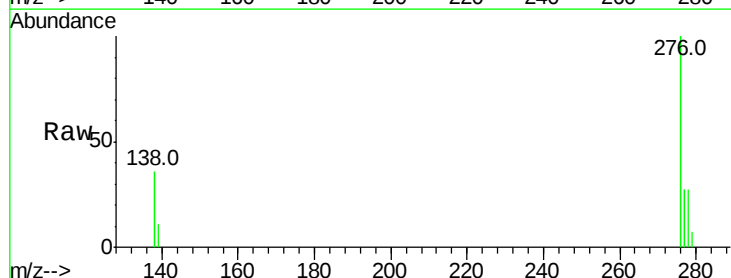
Tgt Ion:276 Resp: 19968

Ion Ratio Lower Upper

276 100

138 35.1 20.3 30.5#

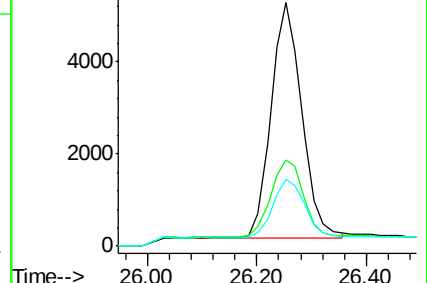
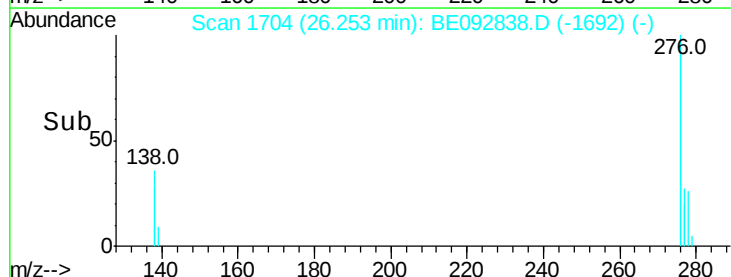
277 25.4 19.7 29.5

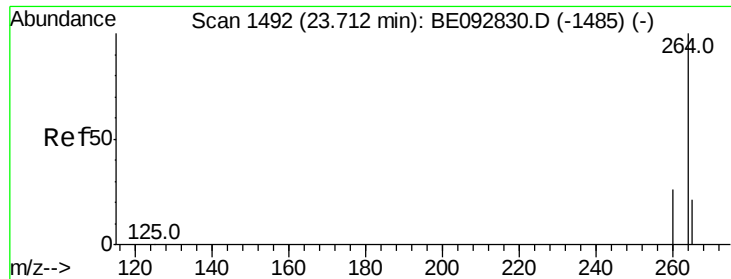


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

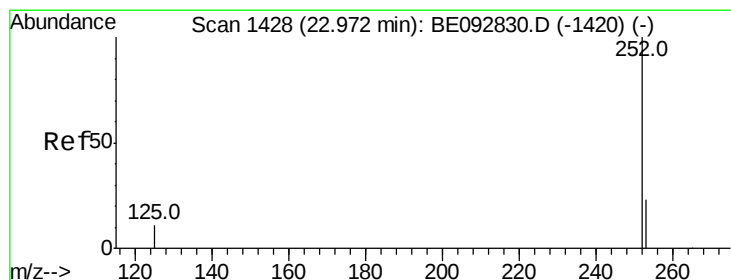
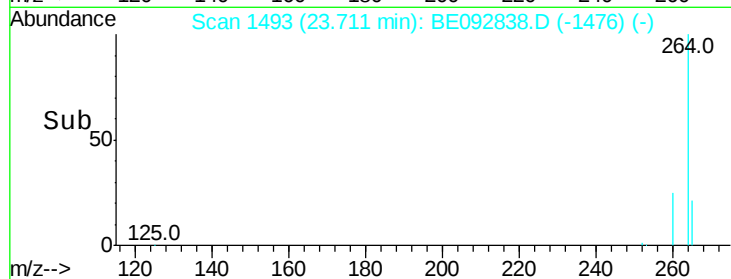
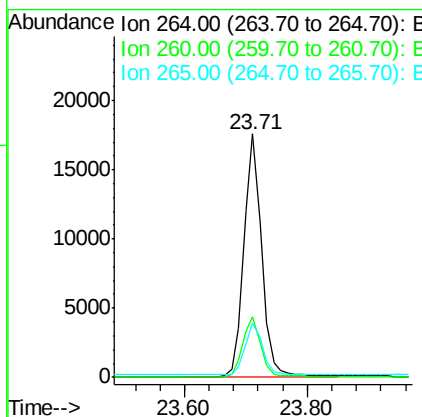
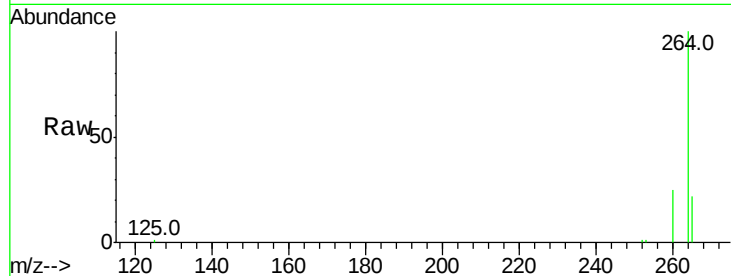




#31
Pervlene-d12
Concen: 5.00 ng
RT: 23.71 min Scan# 1493
Delta R.T. -0.00 min
Lab File: BE092838.D
Acq: 28 Mar 2017 15:55

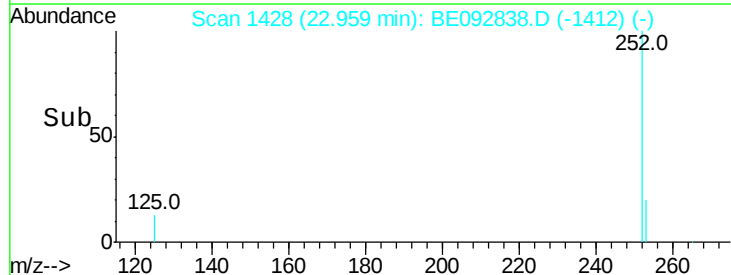
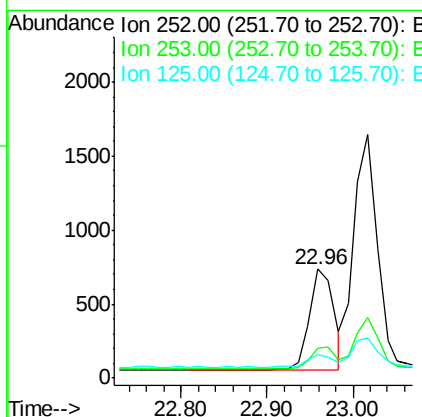
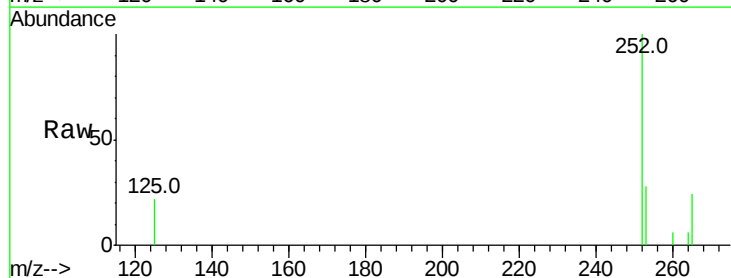
Instrument :
BNA_E
ClientSampleId :
RR-PAH-WPDL

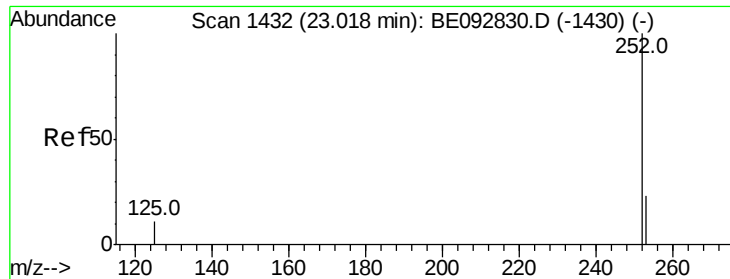
Tot Ion:264 Resp: 35479
Ion Ratio Lower Upper
264 100
260 24.8 20.1 30.1
265 22.3 17.9 26.9



#32
Benzo(b)fluoranthene
Concen: 0.14 ng
RT: 22.96 min Scan# 1428
Delta R.T. -0.01 min
Lab File: BE092838.D
Acq: 28 Mar 2017 15:55

Tgt Ion:252 Resp: 1306
Ion Ratio Lower Upper
252 100
253 27.5 18.7 28.1
125 22.1 10.5 15.7#





#33

Benzo(k)fluoranthene

Concen: 0.36 ng

RT: 23.02 min Scan# 1433

Delta R.T. -0.00 min

Lab File: BE092838.D

Acq: 28 Mar 2017 15:55

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

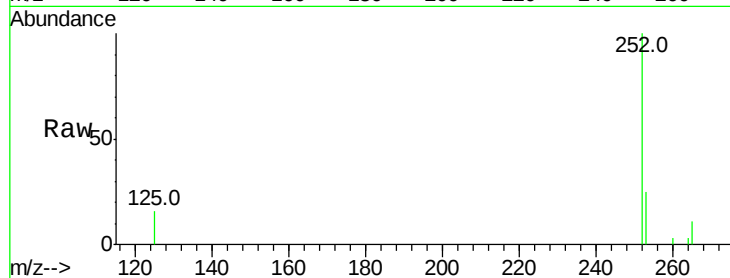
Tot Ion:252 Resp: 3081

Ion Ratio Lower Upper

252 100

253 25.1 20.3 30.5

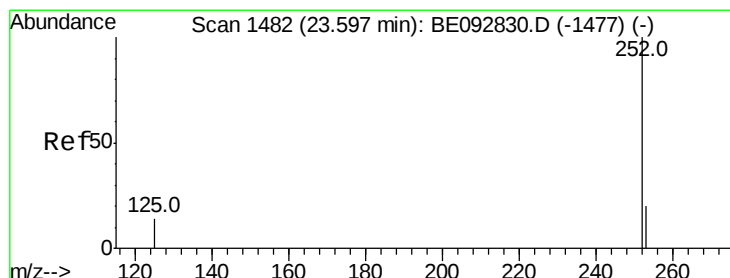
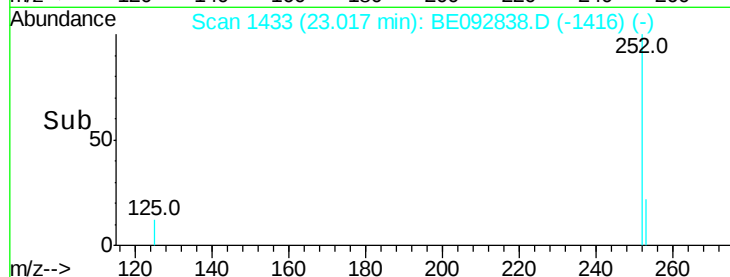
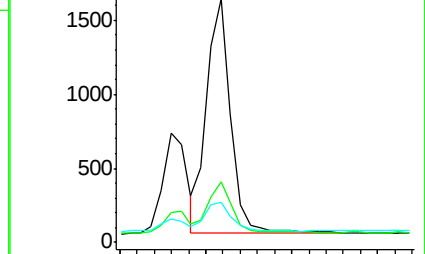
125 16.5 9.6 14.4#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#34

Benzo(a)pyrene

Concen: 0.56 ng

RT: 23.60 min Scan# 1483

Delta R.T. -0.00 min

Lab File: BE092838.D

Acq: 28 Mar 2017 15:55

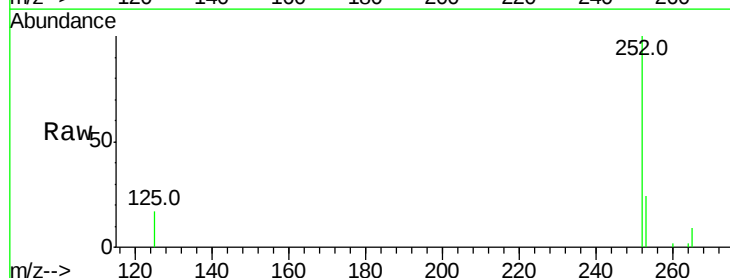
Tgt Ion:252 Resp: 4396

Ion Ratio Lower Upper

252 100

253 24.1 19.0 28.6

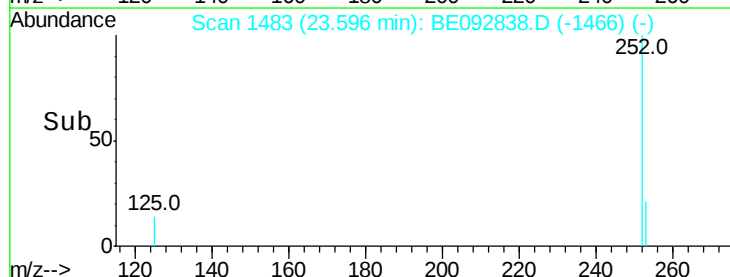
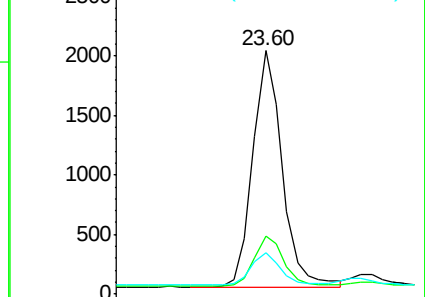
125 17.1 11.8 17.8

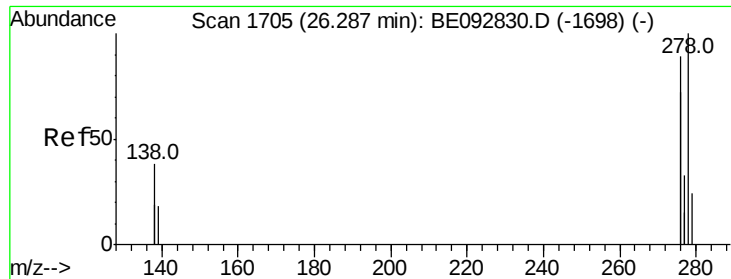


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



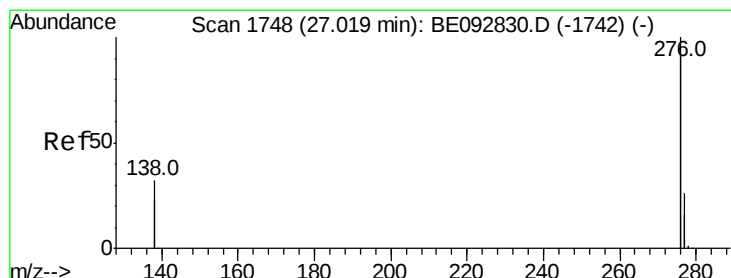
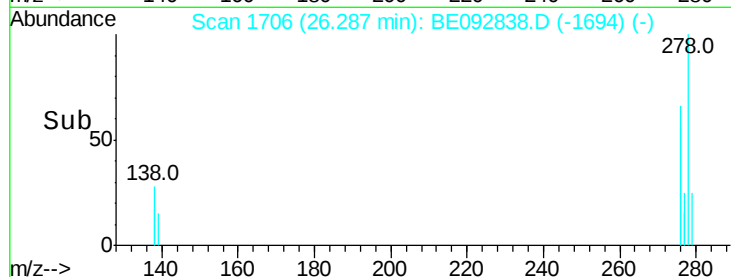
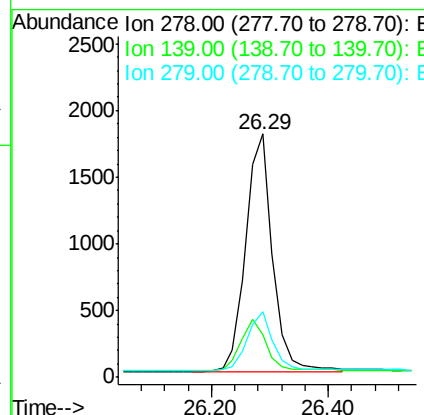
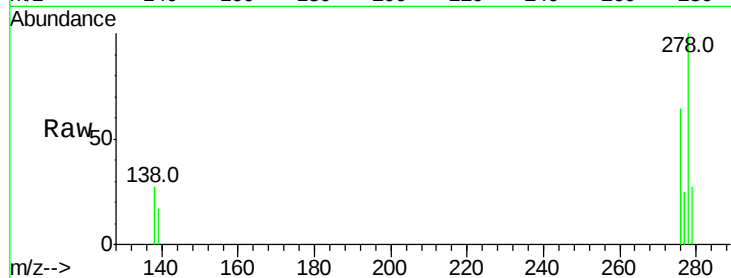


#35
Dibenzo(a,h)anthracene
Concen: 0.69 ng
RT: 26.29 min Scan# 1706
Delta R.T. 0.00 min
Lab File: BE092838.D
Acq: 28 Mar 2017 15:55

Instrument :
BNA_E
ClientSampleId :
RR-PAH-WPDL

Tot Ion:278 Resp: 5707

Ion	Ratio	Lower	Upper
278	100		
139	17.4	13.8	20.8
279	26.8	21.4	32.2



#36
Benzo(g,h,i)perylene
Concen: 0.16 ng
RT: 27.02 min Scan# 1749
Delta R.T. 0.00 min
Lab File: BE092838.D
Acq: 28 Mar 2017 15:55

Tgt Ion:276 Resp: 5353

Ion	Ratio	Lower	Upper
276	100		
277	31.0	19.8	29.8#
138	36.3	19.8	29.6#

