

Data Path : Z:\HPCHEM1\BNA E\DATA\BE092317\
 Data File : BE094095.D
 Acq On : 24 Sep 2017 1:42
 Operator : SJ/JU
 Sample : I5340-09
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Sep 25 08:50:15 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 25 07:59:29 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.91	152	2373	0.40	ng	0.00
7) Naphthalene-d8	10.69	136	13225	0.40	ng	0.00
13) Acenaphthene-d10	14.51	164	8368	0.40	ng	0.00
19) Phenanthrene-d10	17.24	188	24646	0.40	ng	0.00
27) Chrysene-d12	21.40	240	15031	0.40	ng	0.00
34) Perylene-d12	23.91	264	14455	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.50	112	1853	0.01	ng	0.00
5) Phenol-d6	7.09	99	3025	0.22	ng	0.00
8) Nitrobenzene-d5	9.06	82	2474	0.21	ng	0.00
11) 2-Methylnaphthalene-d10	12.28	152	3341	0.15	ng	0.00
14) 2,4,6-Tribromophenol	16.00	330	1354	0.21	ng	0.00
15) 2-Fluorobiphenyl	13.13	172	5150	0.19	ng	0.00
25) Fluoranthene-d10	19.27	212	22303	0.07	ng	0.00
29) Terphenyl-d14	19.85	244	3288	0.14	ng	0.00

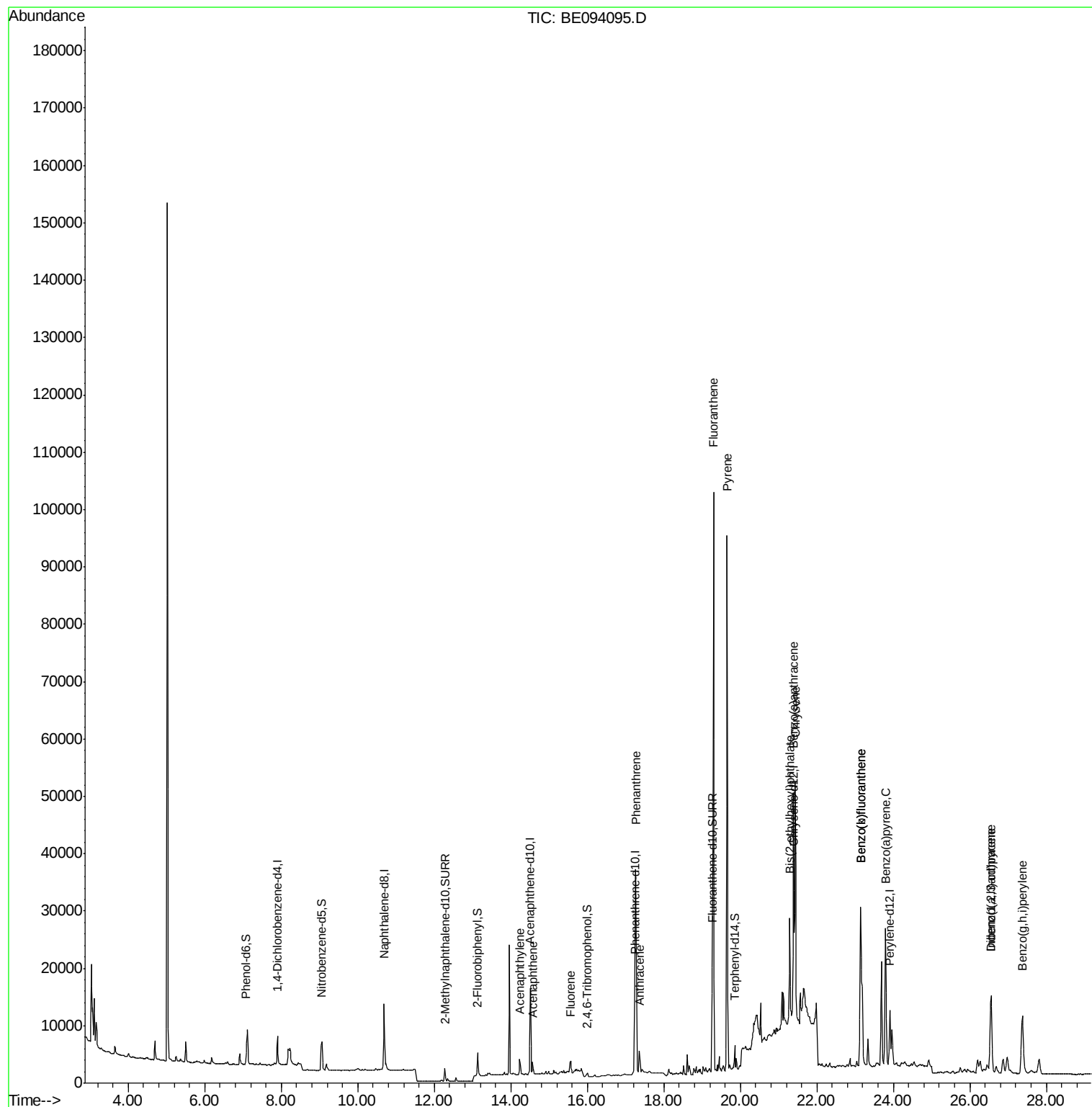
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.38	88	109	Below Cal	#	16
9) Naphthalene	10.74	128	2337	Below Cal	#	89
16) Acenaphthylene	14.23	152	3728	0.088	ng	98
17) Acenaphthene	14.57	154	1167	0.042	ng	95
18) Fluorene	15.56	166	1787	0.043	ng	# 87
23) Phenanthrene	17.27	178	53338	0.604	ng	98
24) Anthracene	17.37	178	7084	0.104	ng	# 94
26) Fluoranthene	19.30	202	93303	0.985	ng	99
28) Pyrene	19.65	202	88486	2.128	ng	# 95
30) Benzo(a)anthracene	21.38	228	38131	0.758	ng	96
31) Chrysene	21.44	228	44349	0.899	ng	96
32) Bis(2-ethylhexyl)phthalate	21.29	149	21412	0.158	ng	# 94
33) Indeno(1,2,3-cd)pyrene	26.55	276	24615	0.645	ng	97
35) Benzo(b)fluoranthene	23.14	252	54028	1.033	ng	# 95
36) Benzo(k)fluoranthene	23.14	252	54028	1.029	ng	96
37) Benzo(a)pyrene	23.79	252	37842	0.806	ng	# 96
38) Dibenzo(a,h)anthracene	26.56	278	6204	0.165	ng	# 72
39) Benzo(a,h,i)perylene	27.37	276	24908	0.663	ng	99

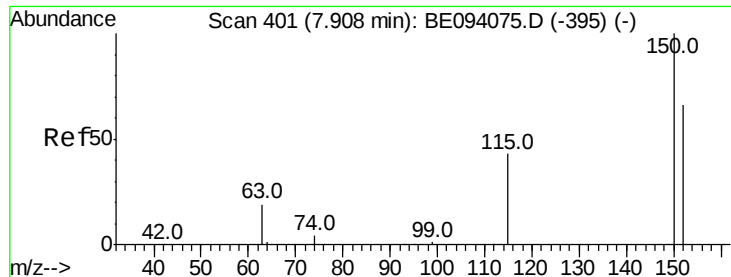
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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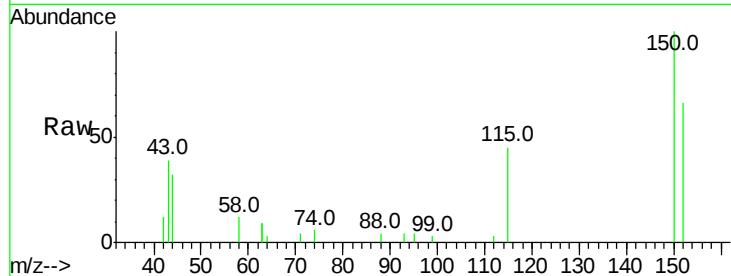


#1

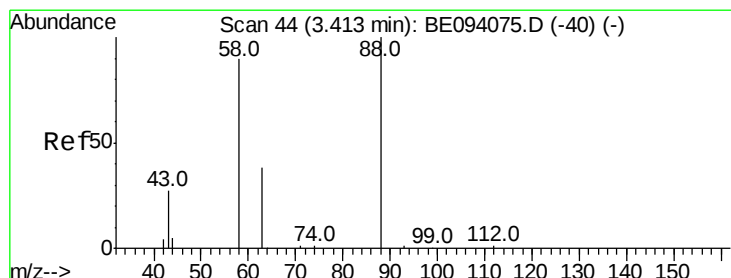
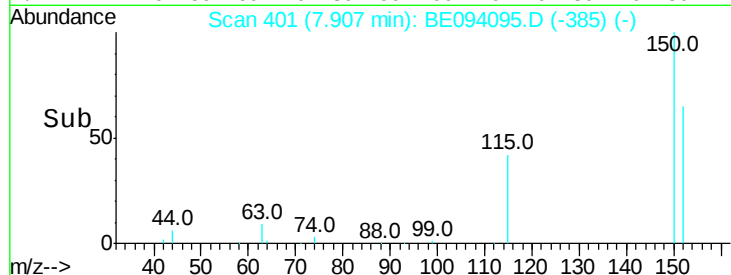
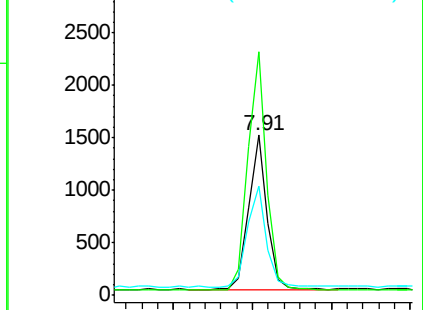
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.91 min Scan# 401
Delta R.T. -0.00 min
Lab File: BE094095.D
Acq: 24 Sep 2017 1:42

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 2373
Ion Ratio Lower Upper
152 100
150 152.3 117.2 175.8
115 68.3 57.0 85.6



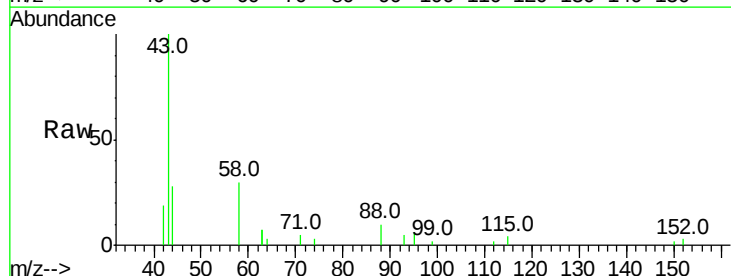
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



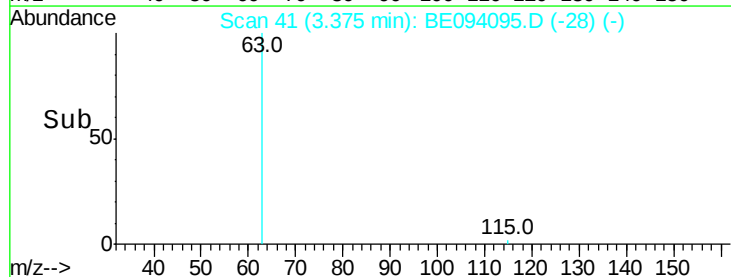
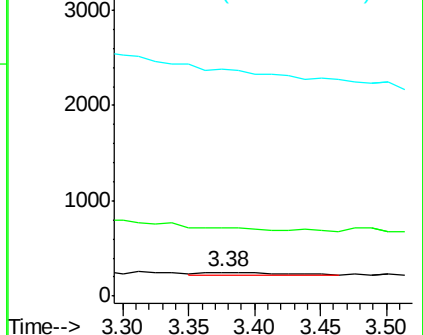
#2

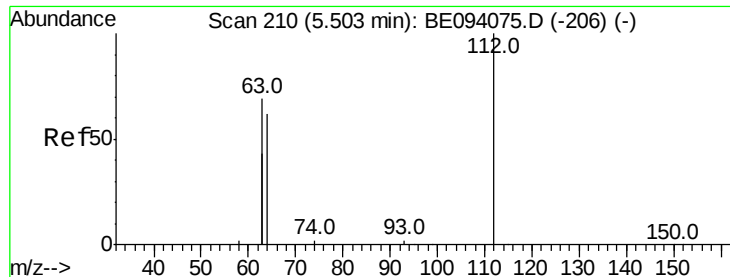
1,4-Dioxane
Concen: Below Cal
RT: 3.38 min Scan# 41
Delta R.T. -0.04 min
Lab File: BE094095.D
Acq: 24 Sep 2017 1:42

Tgt Ion: 88 Resp: 109
Ion Ratio Lower Upper
88 100
58 0.0 63.2 94.8#
43 0.0 41.2 61.8#



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





#4

2-Fluorophenol

Concen: 0.011 ng

RT: 5.50 min Scan# 210

Delta R.T. -0.00 min

Lab File: BE094095.D

Acq: 24 Sep 2017 1:42

Instrument :

BNA_E

ClientSampleId :

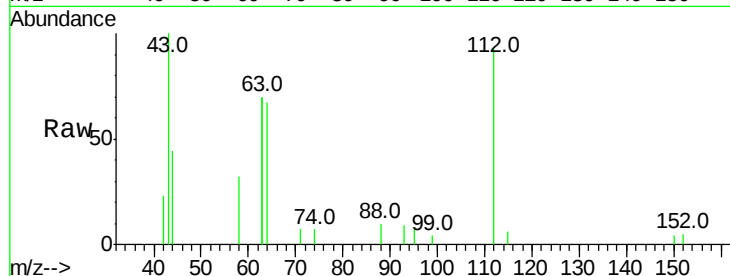
Tot Ion:112 Resp: 1853

Ion Ratio Lower Upper

112 100

64 75.1 60.1 90.1

63 150.0 116.8 175.2



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

2500

2000

1500

1000

500

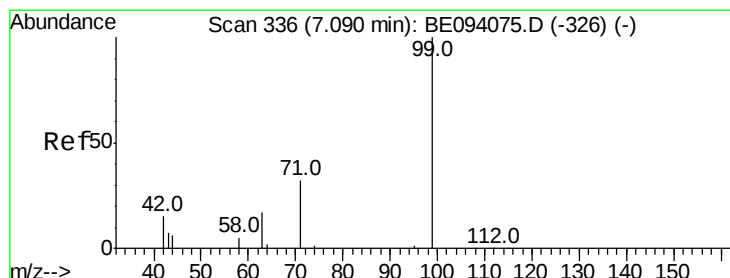
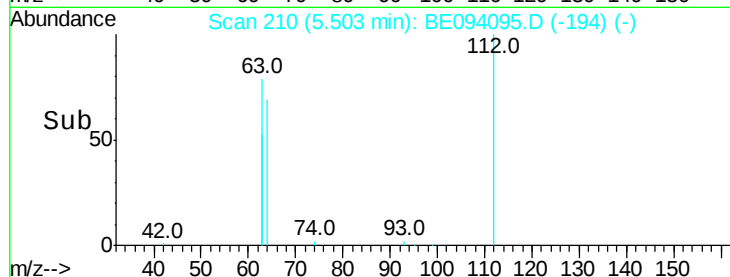
0

5.40

5.50

5.60

Time-->



#5

Phenol-d6

Concen: 0.216 ng

RT: 7.09 min Scan# 336

Delta R.T. -0.00 min

Lab File: BE094095.D

Acq: 24 Sep 2017 1:42

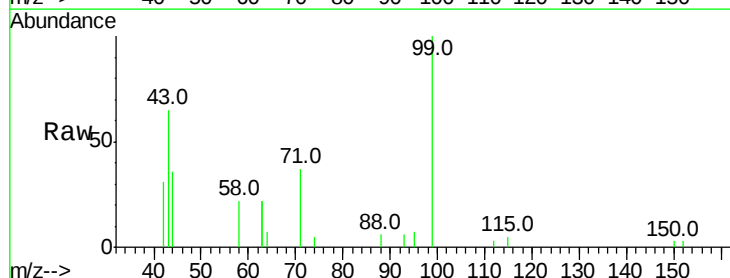
Tgt Ion: 99 Resp: 3025

Ion Ratio Lower Upper

99 100

42 29.2 20.2 30.2

71 34.8 28.4 42.6



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

2500

2000

1500

1000

500

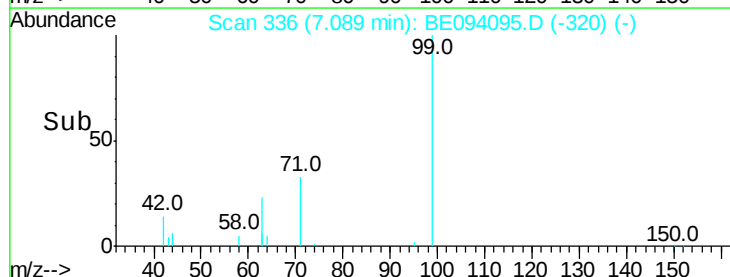
0

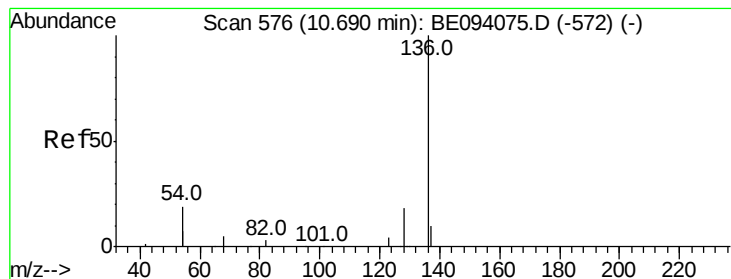
7.00

7.10

7.20

Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.69 min Scan# 576

Delta R.T. -0.00 min

Lab File: BE094095.D

Acq: 24 Sep 2017 1:42

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 13225

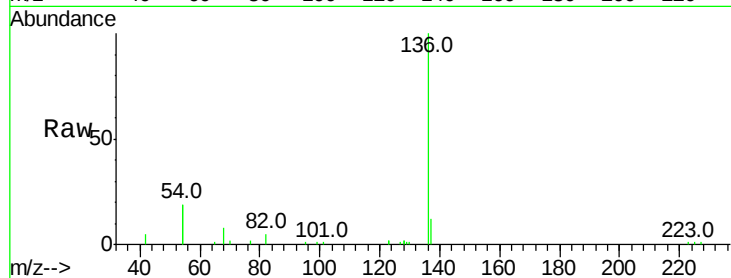
Ion Ratio Lower Upper

136 100

137 11.7 9.5 14.3

54 38.9 29.1 43.7

68 7.9 6.2 9.2

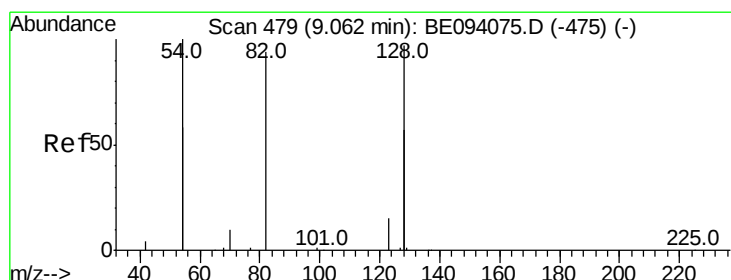
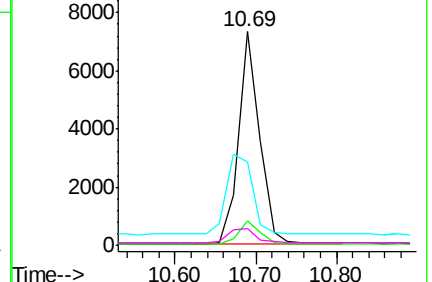
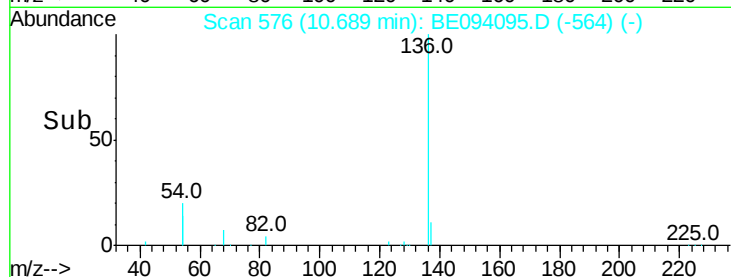


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.210 ng

RT: 9.06 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE094095.D

Acq: 24 Sep 2017 1:42

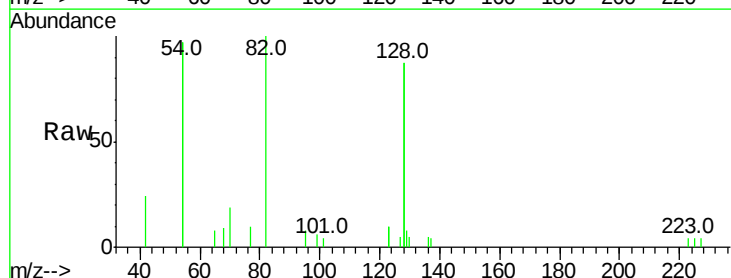
Tgt Ion: 82 Resp: 2474

Ion Ratio Lower Upper

82 100

128 173.8 150.0 225.0

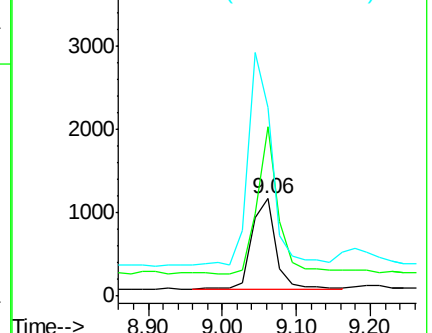
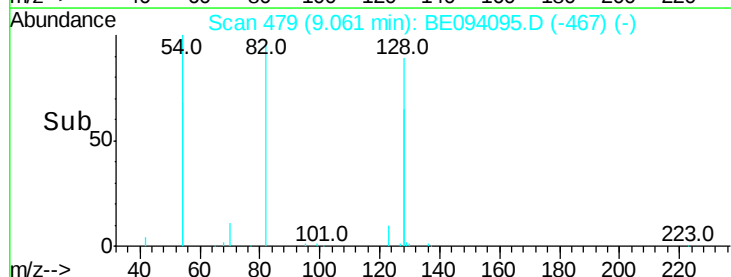
54 194.5 154.2 231.4

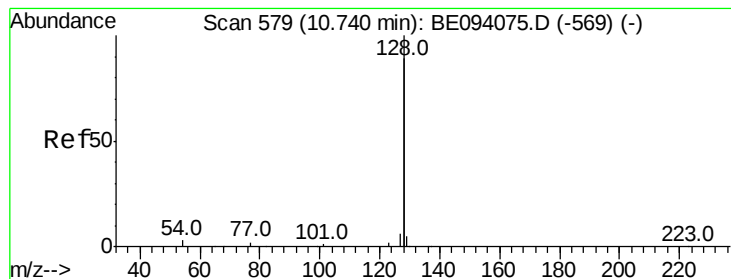


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: Below Cal

RT: 10.74 min Scan# 579

Delta R.T. -0.00 min

Lab File: BE094095.D

Acq: 24 Sep 2017 1:42

Instrument :

BNA_E

ClientSampleId :

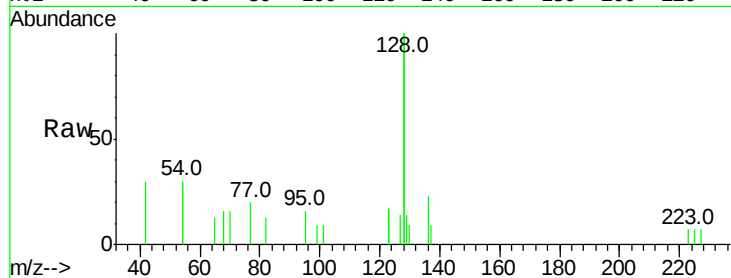
Tot Ion:128 Resp: 2337

Ion Ratio Lower Upper

128 100

129 7.1 2.6 3.8#

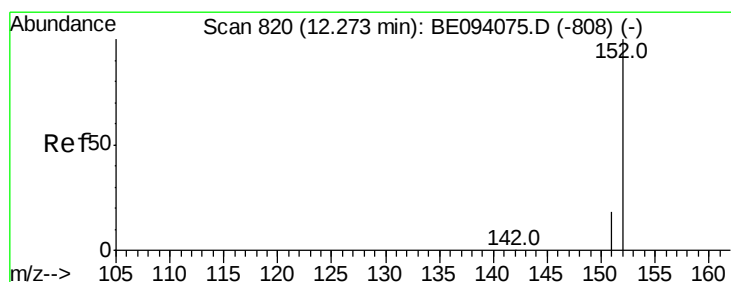
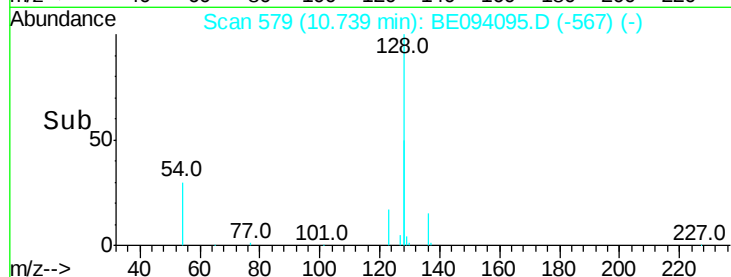
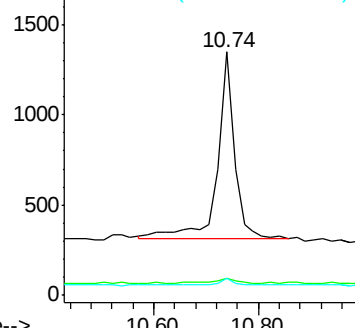
127 6.8 2.8 4.2#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#11

2-Methylnaphthalene-d10

Concen: 0.149 ng

RT: 12.28 min Scan# 821

Delta R.T. 0.00 min

Lab File: BE094095.D

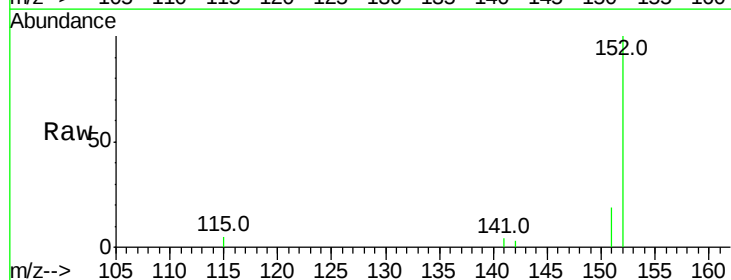
Acq: 24 Sep 2017 1:42

Tgt Ion:152 Resp: 3341

Ion Ratio Lower Upper

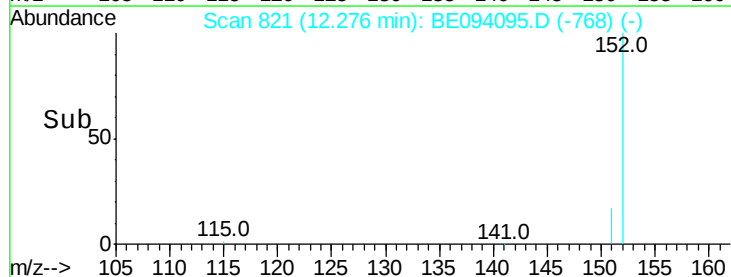
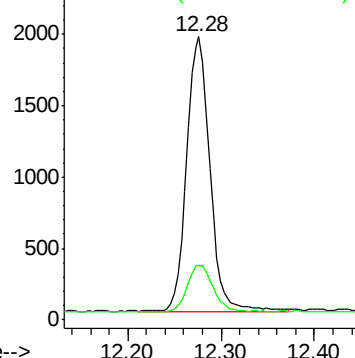
152 100

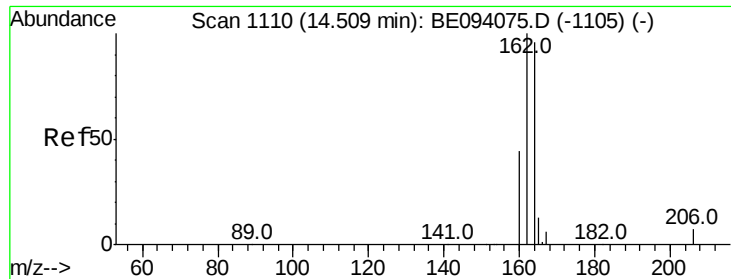
151 18.9 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

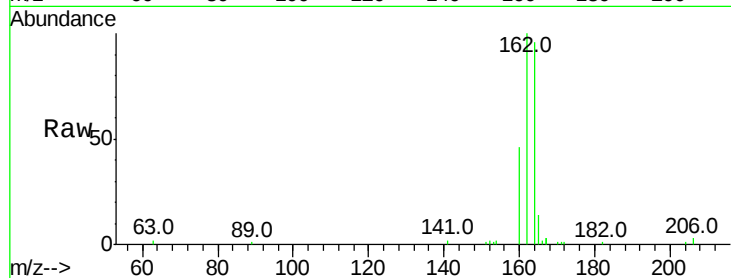




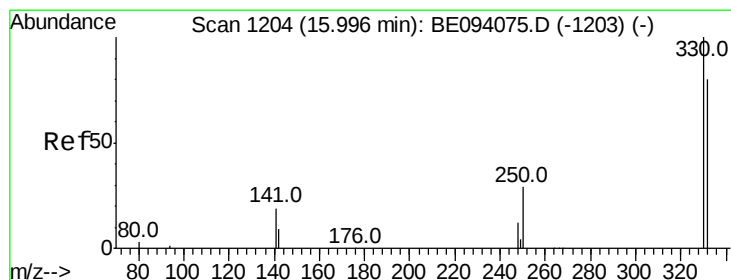
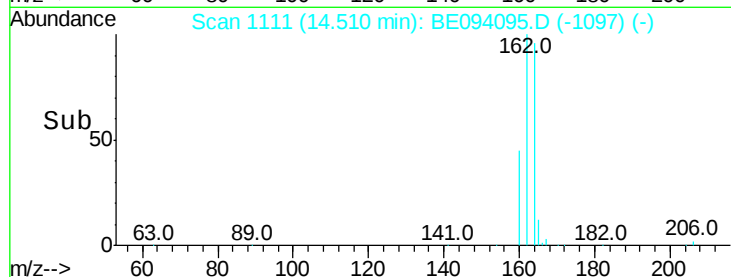
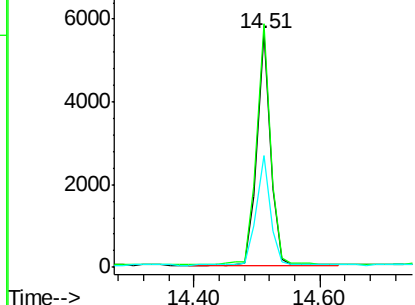
#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.51 min Scan# 1111
 Delta R.T. 0.00 min
 Lab File: BE094095.D
 Acq: 24 Sep 2017 1:42

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:164 Resp: 8368
 Ion Ratio Lower Upper
 164 100
 162 103.9 83.1 124.7
 160 47.5 37.1 55.7

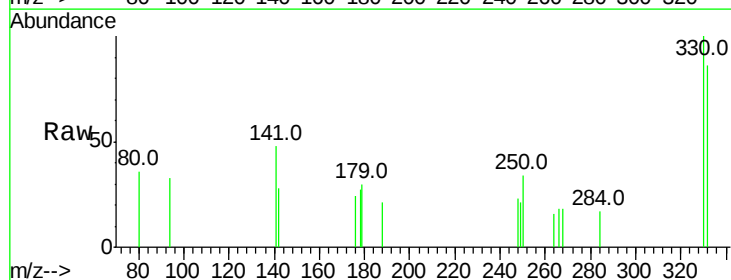


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

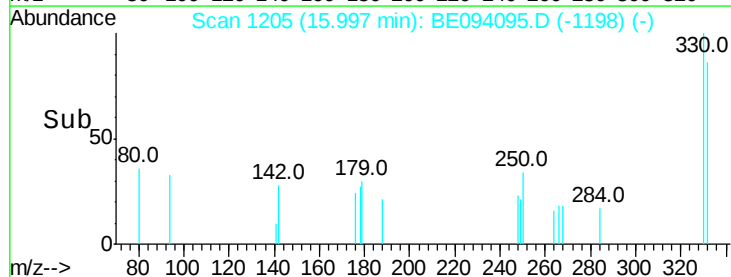
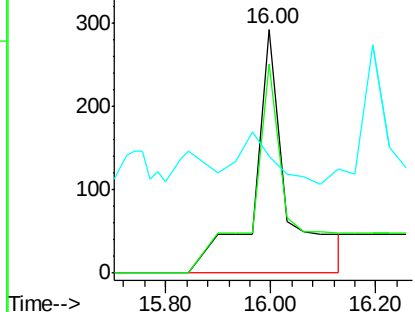


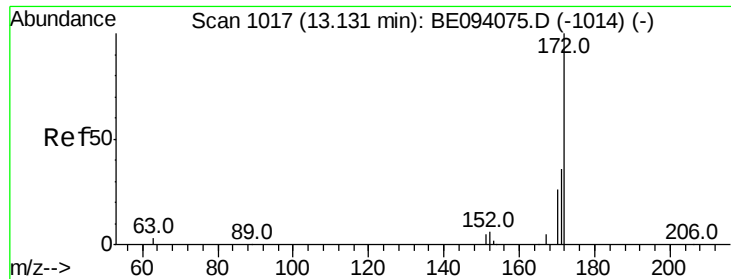
#14
 2,4,6-Tribromophenol
 Concen: 0.213 ng
 RT: 16.00 min Scan# 1205
 Delta R.T. 0.00 min
 Lab File: BE094095.D
 Acq: 24 Sep 2017 1:42

Tgt Ion:330 Resp: 1354
 Ion Ratio Lower Upper
 330 100
 332 95.8 152.7 229.1#
 141 0.0 33.7 50.5#



Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

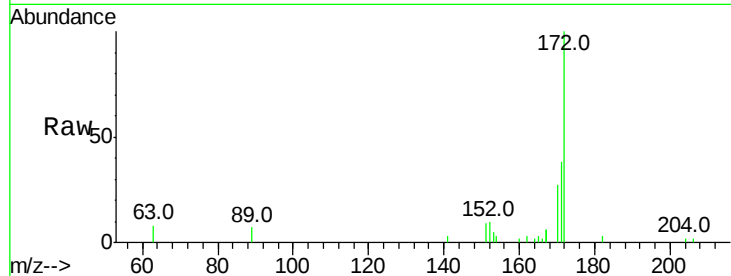




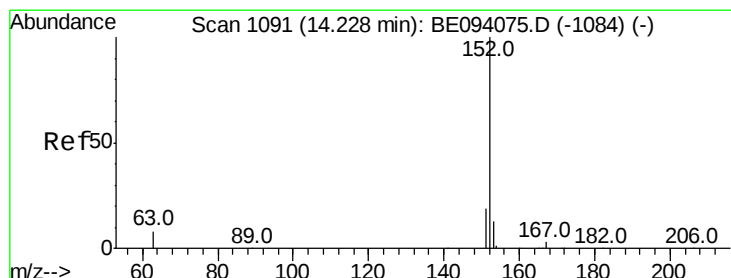
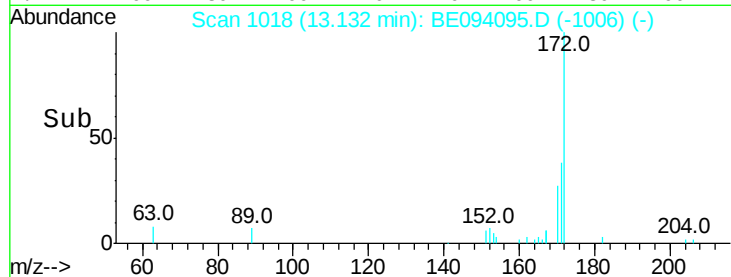
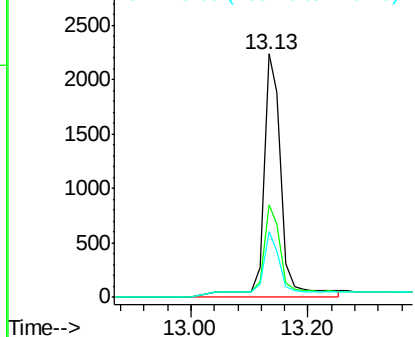
#15
2-Fluorobiphenyl
Concen: 0.187 ng
RT: 13.13 min Scan# 1018
Delta R.T. 0.00 min
Lab File: BE094095.D
Acq: 24 Sep 2017 1:42

Instrument :
BNA_E
ClientSampleId :

Tot Ion:172 Resp: 5150
Ion Ratio Lower Upper
172 100
171 37.9 29.9 44.9
170 26.8 21.8 32.8

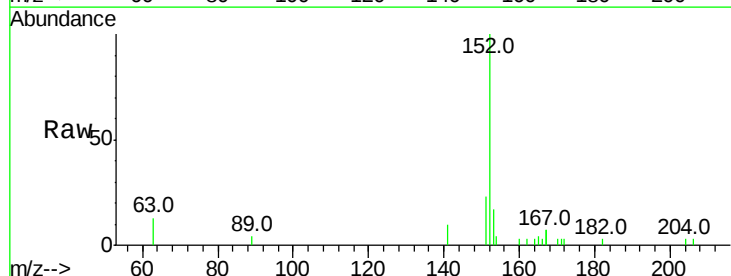


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

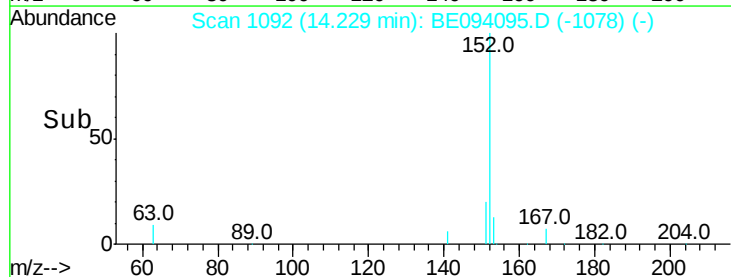
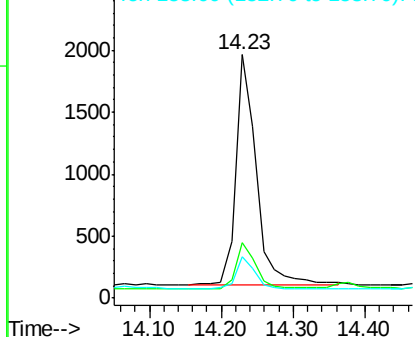


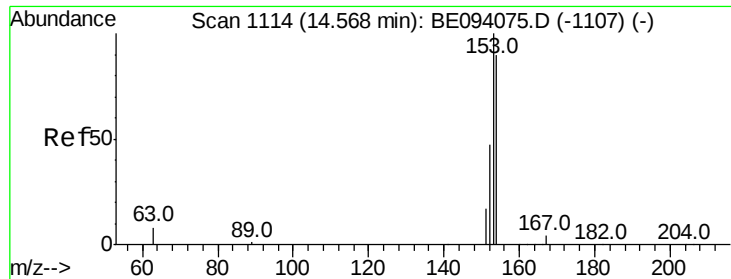
#16
Acenaphthylene
Concen: 0.088 ng
RT: 14.23 min Scan# 1092
Delta R.T. 0.00 min
Lab File: BE094095.D
Acq: 24 Sep 2017 1:42

Tgt Ion:152 Resp: 3728
Ion Ratio Lower Upper
152 100
151 20.8 15.7 23.5
153 13.9 10.5 15.7



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





#17

Acenaphthene

Concen: 0.042 ng

RT: 14.57 min Scan# 1115

Delta R.T. 0.00 min

Lab File: BE094095.D

Acq: 24 Sep 2017 1:42

Instrument :

BNA_E

ClientSampleId :

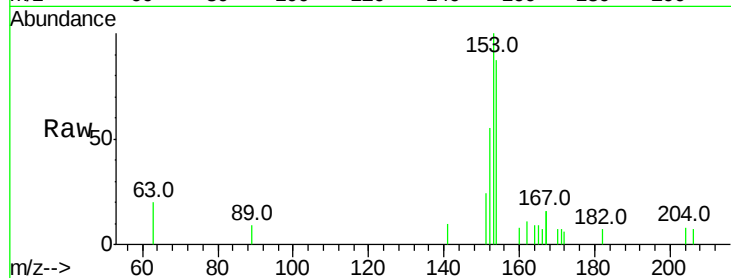
Tot Ion:154 Resp: 1167

Ion Ratio Lower Upper

154 100

153 108.1 89.2 133.8

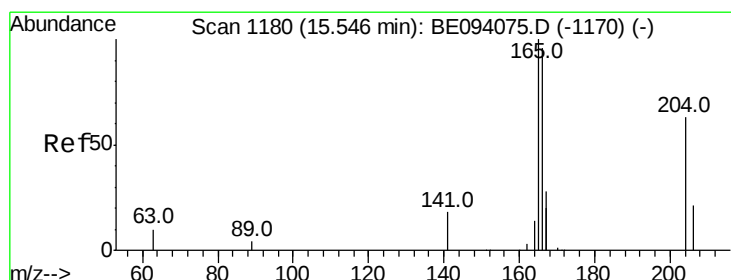
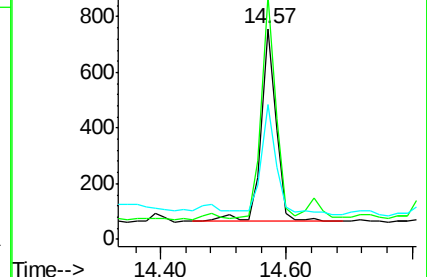
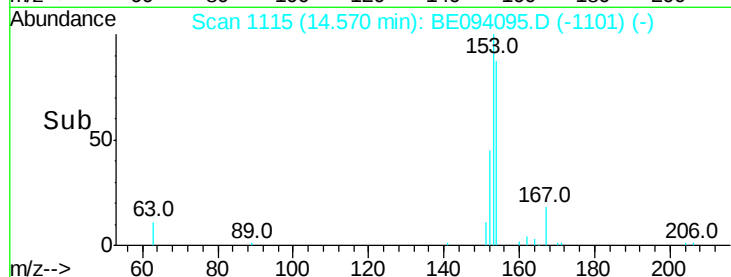
152 58.7 42.0 63.0



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



#18

Fluorene

Concen: 0.043 ng

RT: 15.56 min Scan# 1182

Delta R.T. 0.02 min

Lab File: BE094095.D

Acq: 24 Sep 2017 1:42

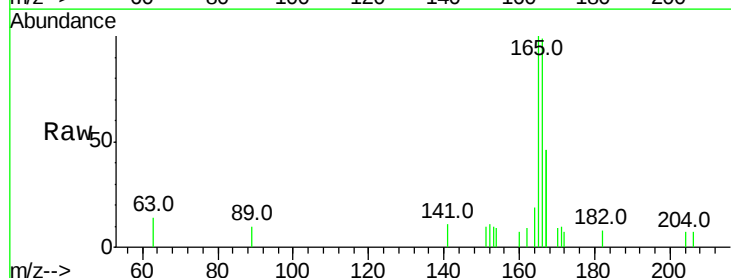
Tgt Ion:166 Resp: 1787

Ion Ratio Lower Upper

166 100

165 109.0 77.8 116.6

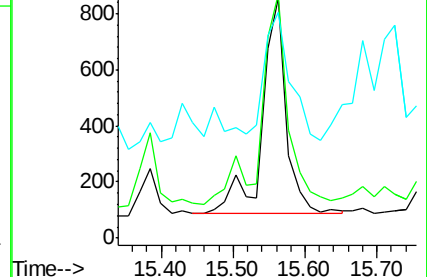
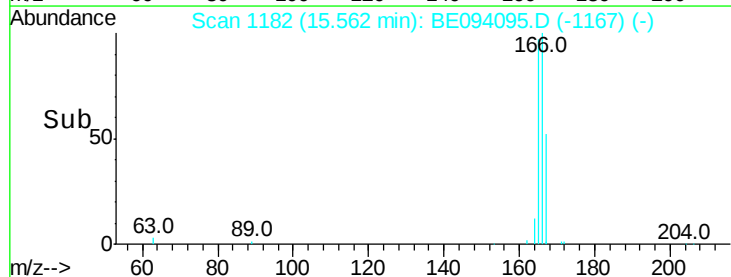
167 63.8 42.4 63.6#

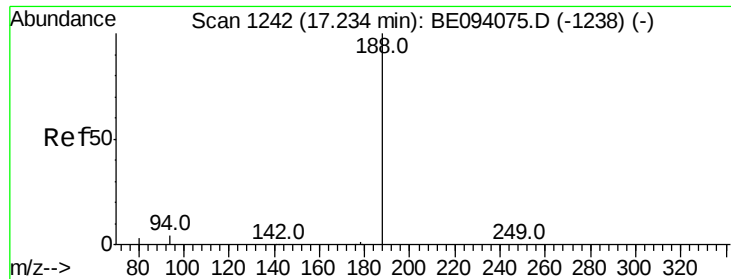


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

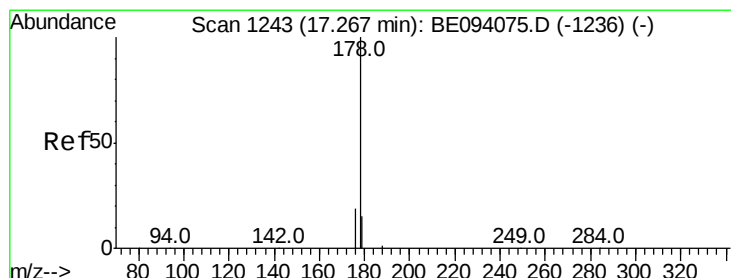
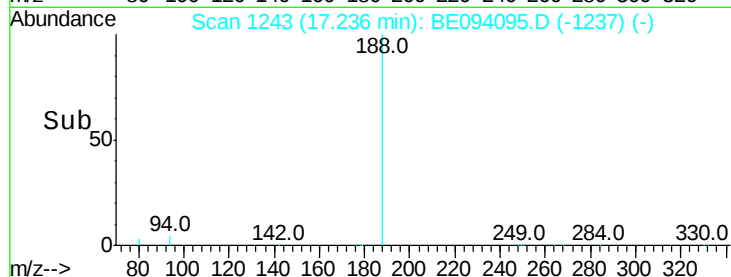
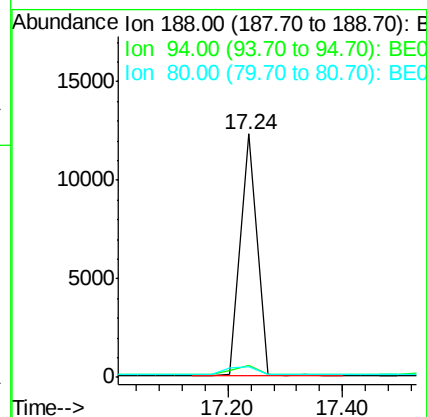
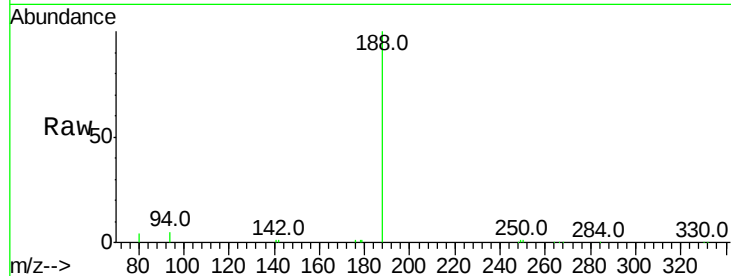




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.24 min Scan# 1243
Delta R.T. 0.00 min
Lab File: BE094095.D
Acq: 24 Sep 2017 1:42

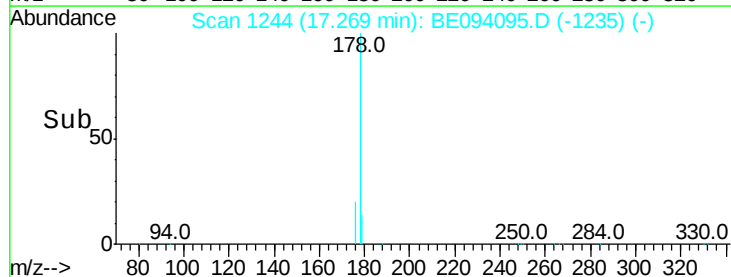
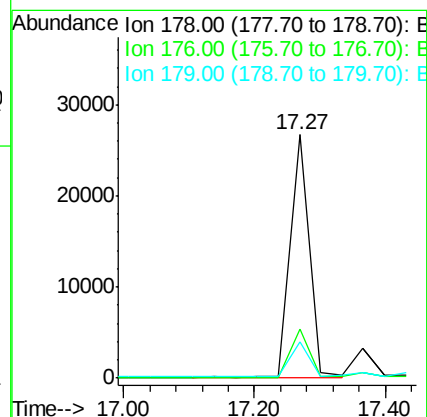
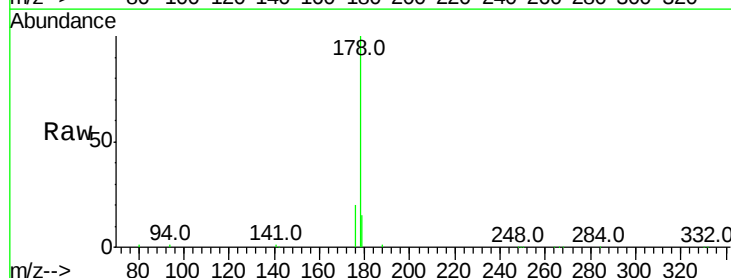
Instrument :
BNA_E
ClientSampleId :

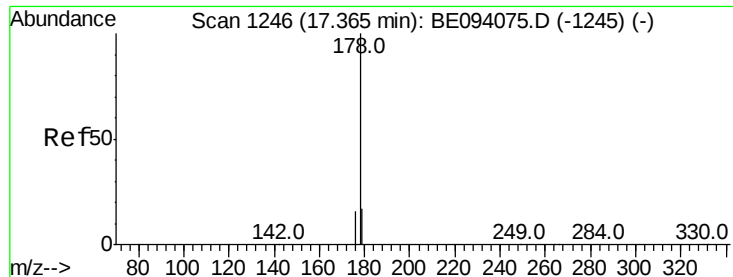
Tot Ion:188 Resp: 24646
Ion Ratio Lower Upper
188 100
94 5.0 3.9 5.9
80 4.4 3.6 5.4



#23
Phenanthrene
Concen: 0.604 ng
RT: 17.27 min Scan# 1244
Delta R.T. 0.00 min
Lab File: BE094095.D
Acq: 24 Sep 2017 1:42

Tgt Ion:178 Resp: 53338
Ion Ratio Lower Upper
178 100
176 19.9 15.1 22.7
179 15.3 11.8 17.6





#24

Anthracene

Concen: 0.104 ng

RT: 17.37 min Scan# 1247

Delta R.T. 0.00 min

Lab File: BE094095.D

Acq: 24 Sep 2017 1:42

Instrument :

BNA_E

ClientSampleId :

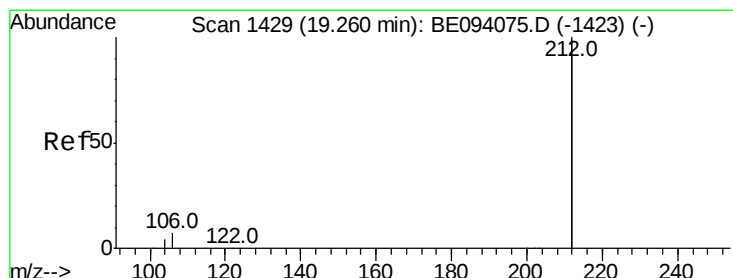
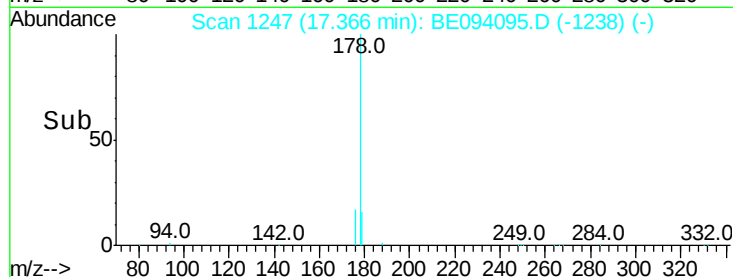
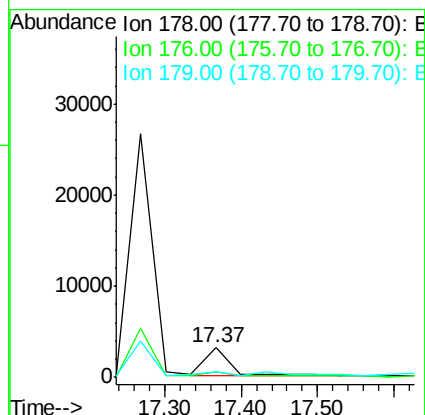
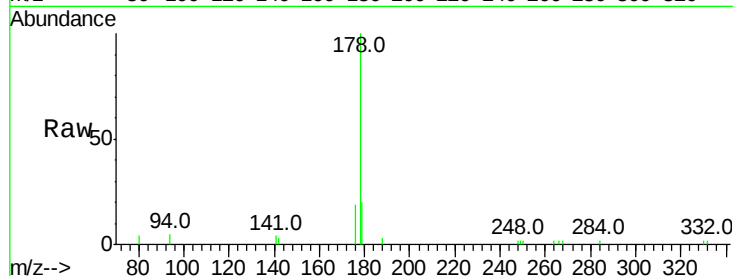
Tot Ion:178 Resp: 7084

Ion Ratio Lower Upper

178 100

176 16.7 12.8 19.2

179 12.1 13.0 19.6#



#25

Fluoranthene-d10

Concen: 0.071 ng

RT: 19.27 min Scan# 1431

Delta R.T. 0.01 min

Lab File: BE094095.D

Acq: 24 Sep 2017 1:42

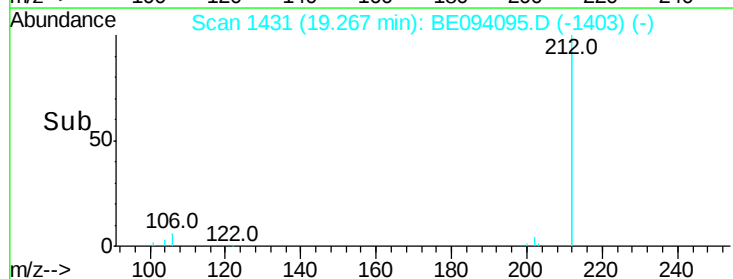
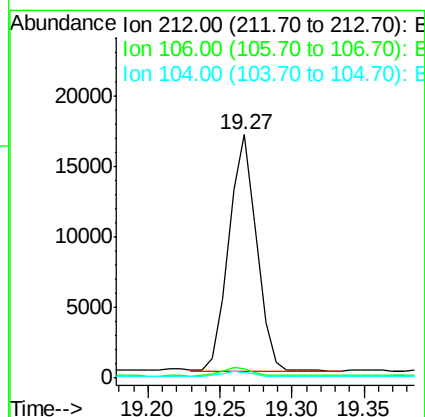
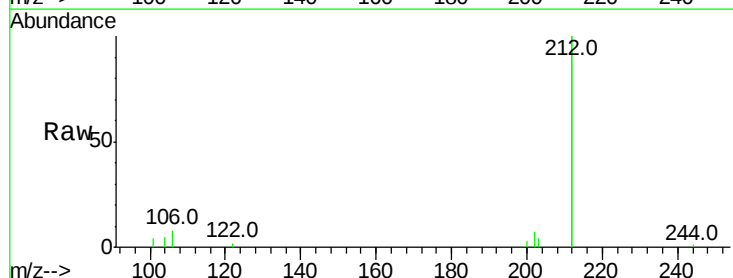
Tgt Ion:212 Resp: 22303

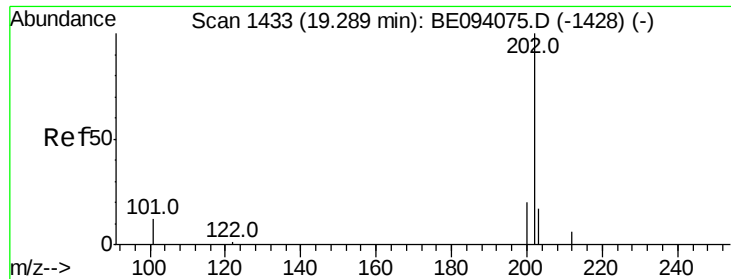
Ion Ratio Lower Upper

212 100

106 3.8 2.8 4.2

104 2.2 1.6 2.4

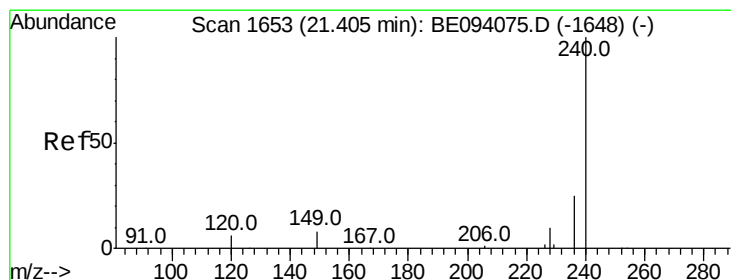
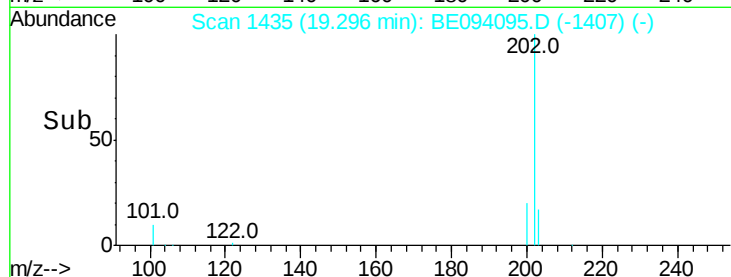
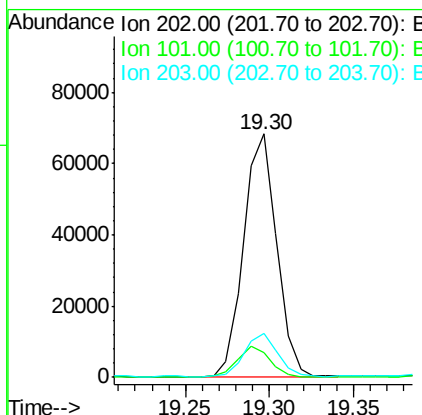
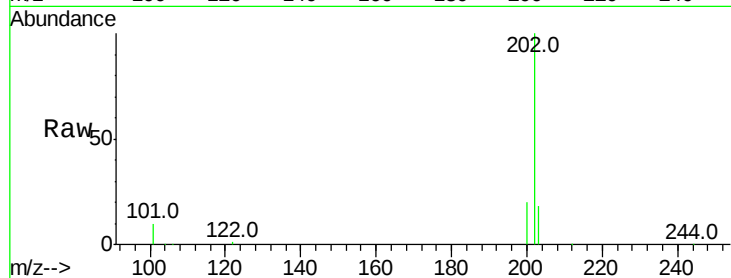




#26
 Fluoranthene
 Concen: 0.985 ng
 RT: 19.30 min Scan# 1435
 Delta R.T. 0.01 min
 Lab File: BE094095.D
 Acq: 24 Sep 2017 1:42

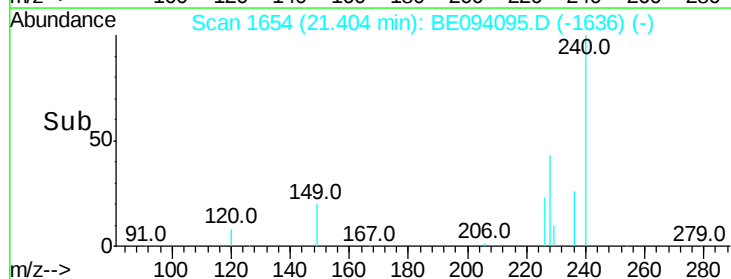
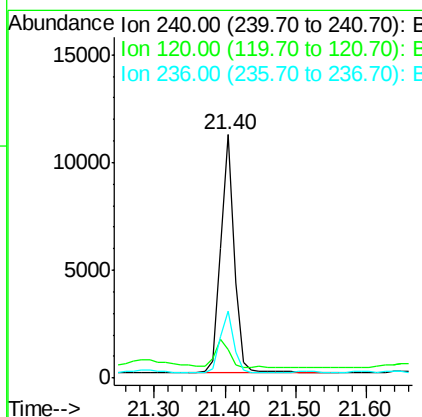
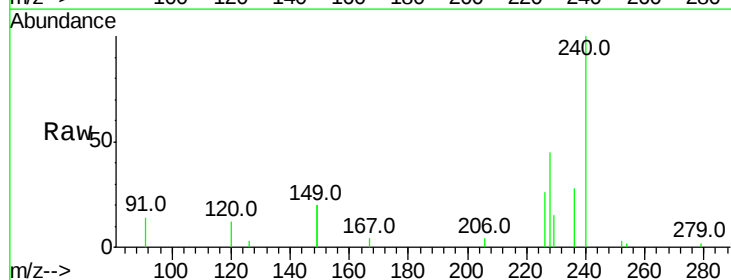
Instrument :
 BNA_E
 ClientSampleId :

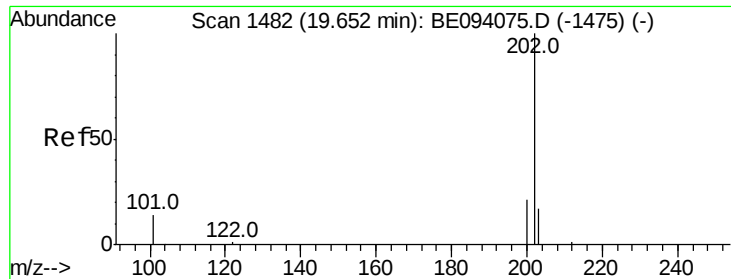
Tot Ion:202 Resp: 93303
 Ion Ratio Lower Upper
 202 100
 101 12.2 9.8 14.8
 203 17.5 13.7 20.5



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.40 min Scan# 1654
 Delta R.T. -0.00 min
 Lab File: BE094095.D
 Acq: 24 Sep 2017 1:42

Tgt Ion:240 Resp: 15031
 Ion Ratio Lower Upper
 240 100
 120 11.6 5.5 8.3#
 236 27.5 20.7 31.1

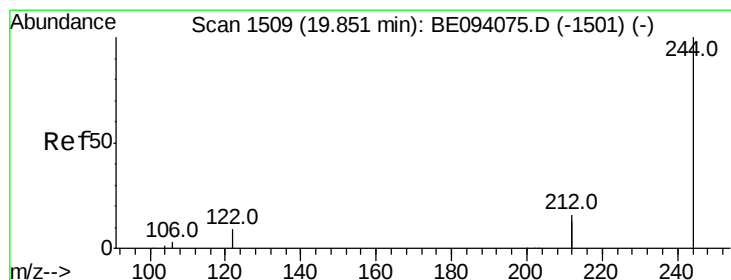
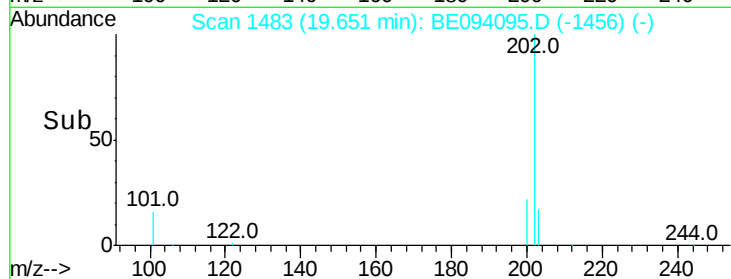
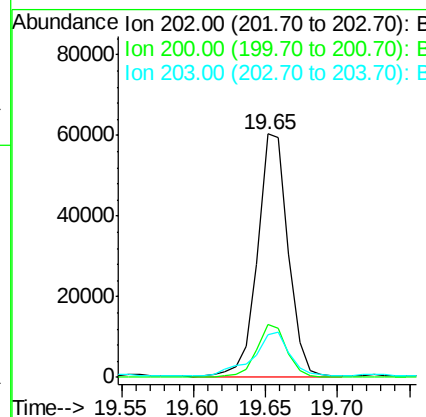
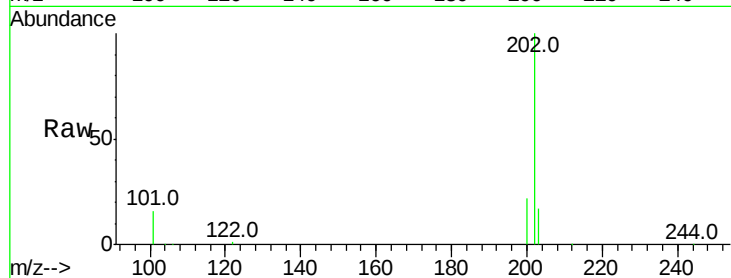




#28
Pvrene
Concen: 2.128 ng
RT: 19.65 min Scan# 1483
Delta R.T. -0.00 min
Lab File: BE094095.D
Acq: 24 Sep 2017 1:42

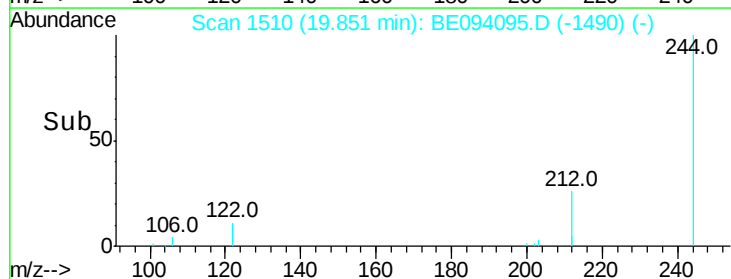
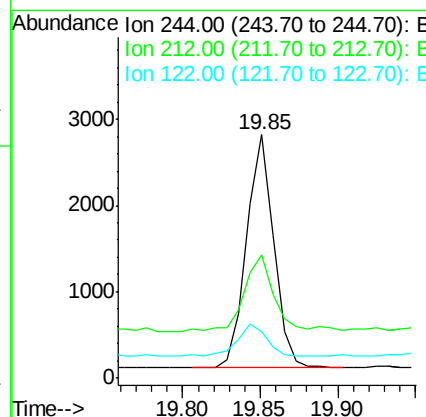
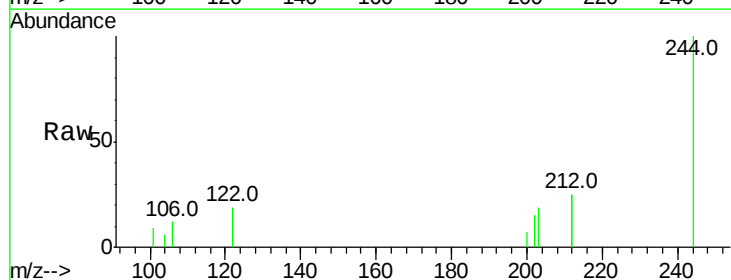
Instrument :
BNA_E
ClientSampleId :

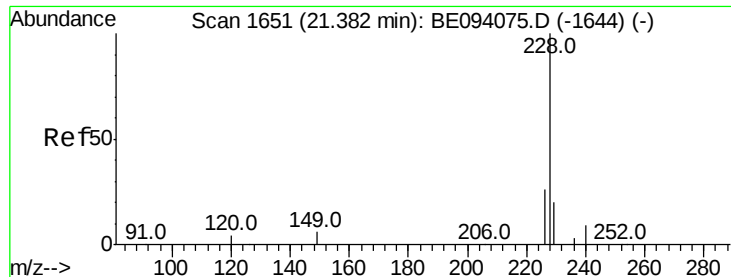
Tot Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.6	25.0
203	21.6	13.8	20.8



#29
Terphenyl-d14
Concen: 0.140 ng
RT: 19.85 min Scan# 1510
Delta R.T. -0.00 min
Lab File: BE094095.D
Acq: 24 Sep 2017 1:42

Tgt Ion	Ratio	Lower	Upper
244	100		
212	50.6	25.4	38.0
122	19.0	8.1	12.1





#30

Benzo(a)anthracene

Concen: 0.758 ng

RT: 21.38 min Scan# 1652

Delta R.T. -0.00 min

Lab File: BE094095.D

Acq: 24 Sep 2017 1:42

Instrument :

BNA_E

ClientSampleId :

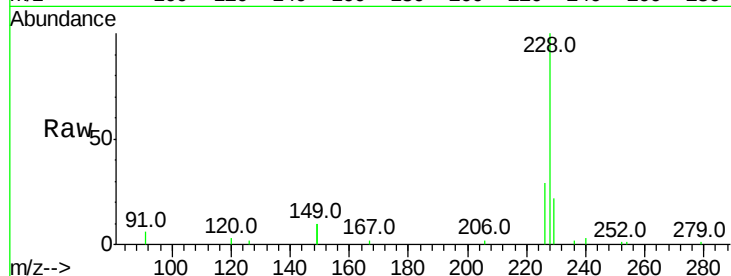
Tot Ion:228 Resp: 38131

Ion Ratio Lower Upper

228 100

226 29.2 21.4 32.0

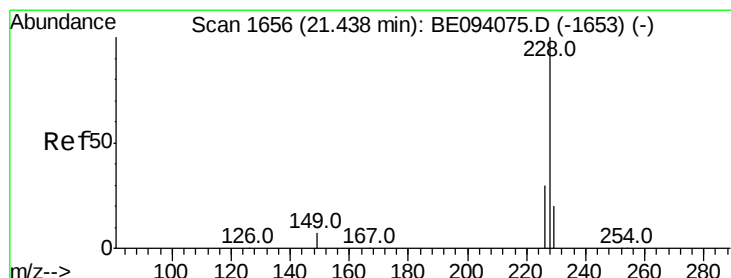
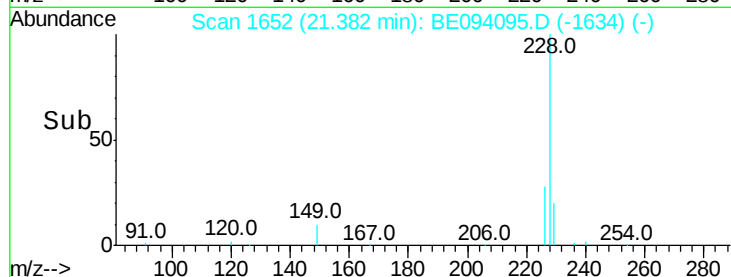
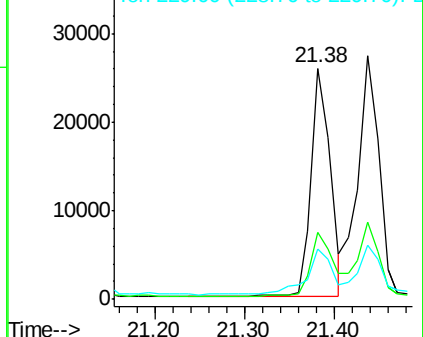
229 22.0 16.4 24.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#31

Chrysene

Concen: 0.899 ng

RT: 21.44 min Scan# 1657

Delta R.T. -0.00 min

Lab File: BE094095.D

Acq: 24 Sep 2017 1:42

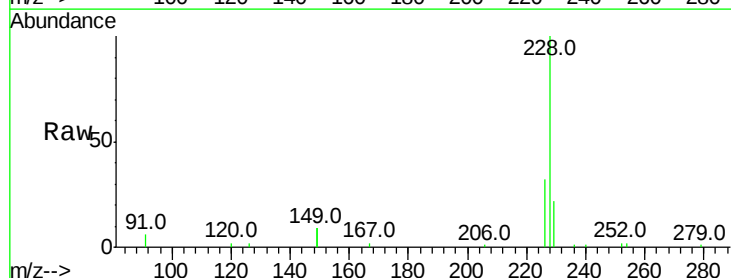
Tgt Ion:228 Resp: 44349

Ion Ratio Lower Upper

228 100

226 31.7 23.6 35.4

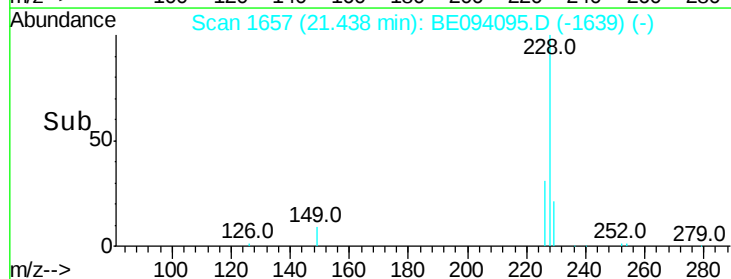
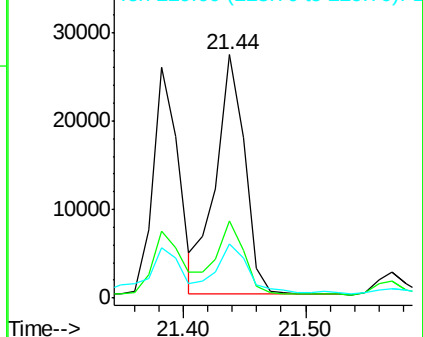
229 22.4 16.4 24.6

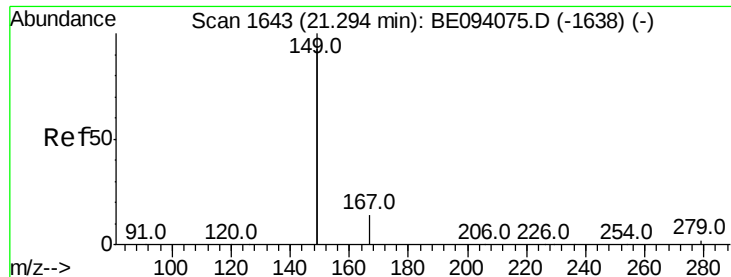


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

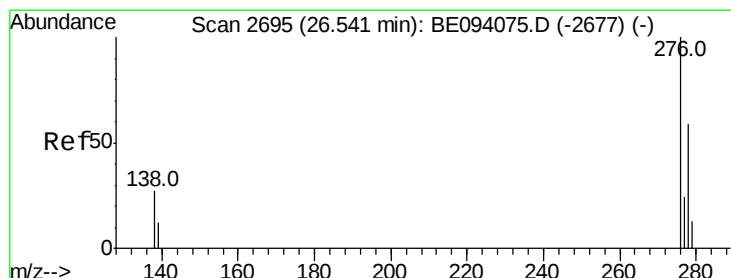
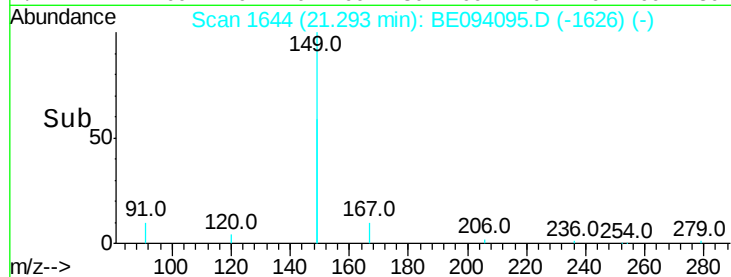
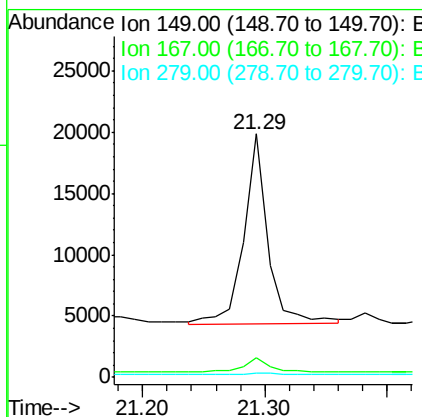
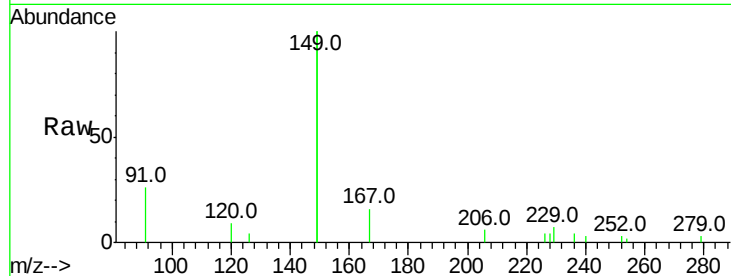




#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.158 ng
 RT: 21.29 min Scan# 1644
 Delta R.T. -0.00 min
 Lab File: BE094095.D
 Acq: 24 Sep 2017 1:42

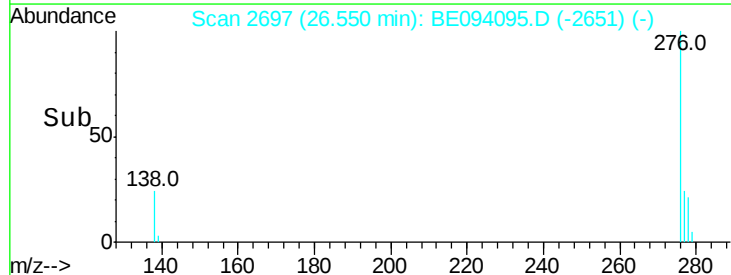
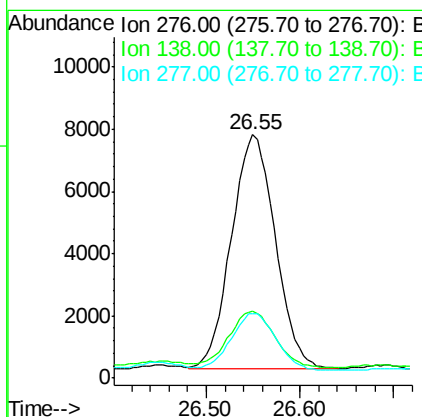
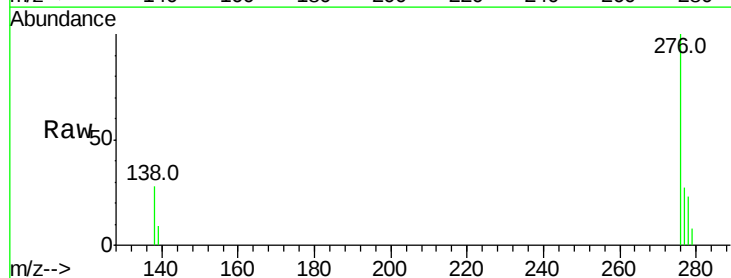
Instrument :
 BNA_E
 ClientSampleId :

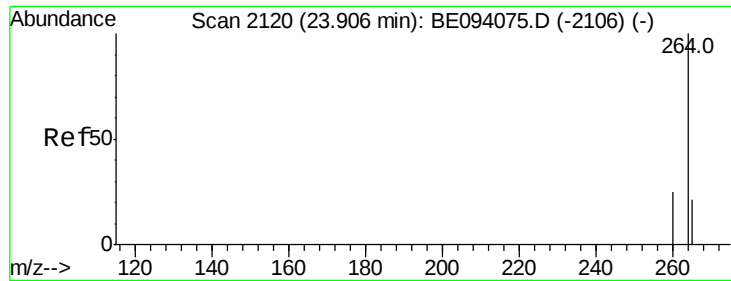
Tot Ion:149 Resp: 21412
 Ion Ratio Lower Upper
 149 100
 167 9.0 5.4 8.0#
 279 1.2 0.7 1.1#



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.645 ng
 RT: 26.55 min Scan# 2697
 Delta R.T. 0.01 min
 Lab File: BE094095.D
 Acq: 24 Sep 2017 1:42

Tgt Ion:276 Resp: 24615
 Ion Ratio Lower Upper
 276 100
 138 24.7 22.5 33.7
 277 24.9 19.9 29.9

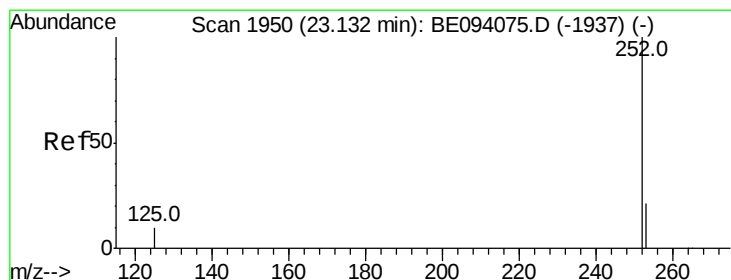
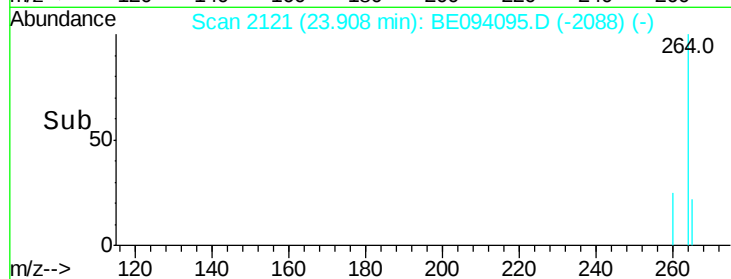
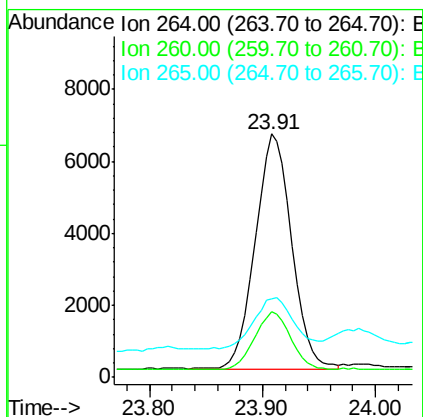
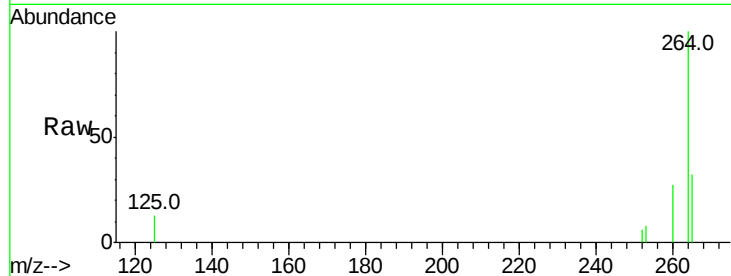




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.91 min Scan# 2121
Delta R.T. 0.00 min
Lab File: BE094095.D
Acq: 24 Sep 2017 1:42

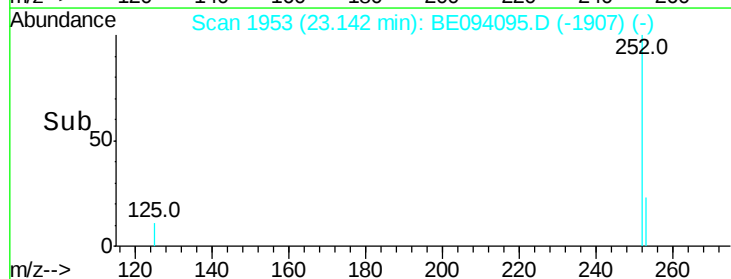
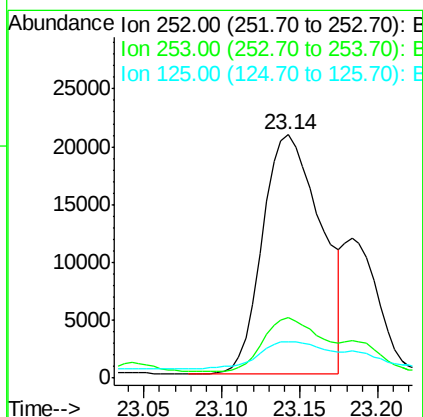
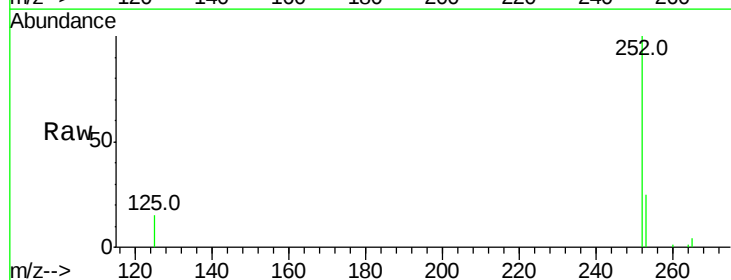
Instrument :
BNA_E
ClientSampleId :

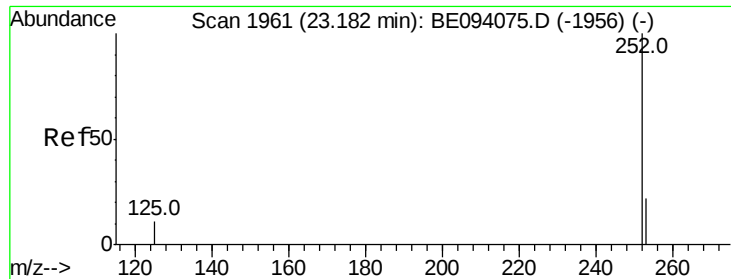
Tot Ion:264 Resp: 14455
Ion Ratio Lower Upper
264 100
260 27.2 20.5 30.7
265 32.3 22.8 34.2



#35
Benzo(b)fluoranthene
Concen: 1.033 ng
RT: 23.14 min Scan# 1953
Delta R.T. 0.01 min
Lab File: BE094095.D
Acq: 24 Sep 2017 1:42

Tgt Ion:252 Resp: 54028
Ion Ratio Lower Upper
252 100
253 24.7 18.2 27.2
125 15.1 10.1 15.1#





#36

Benzo(k)fluoranthene

Concen: 1.029 ng

RT: 23.14 min Scan# 1953

Delta R.T. -0.04 min

Lab File: BE094095.D

Acq: 24 Sep 2017 1:42

Instrument :

BNA_E

ClientSampleId :

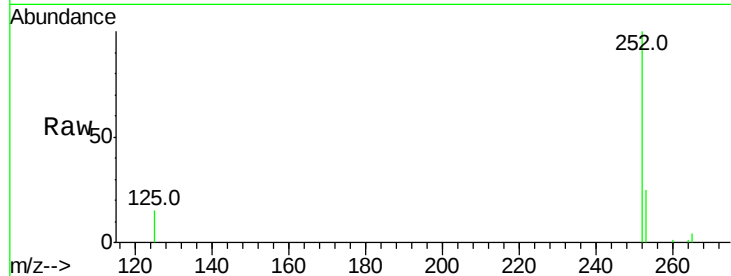
Tot Ion:252 Resp: 54028

Ion Ratio Lower Upper

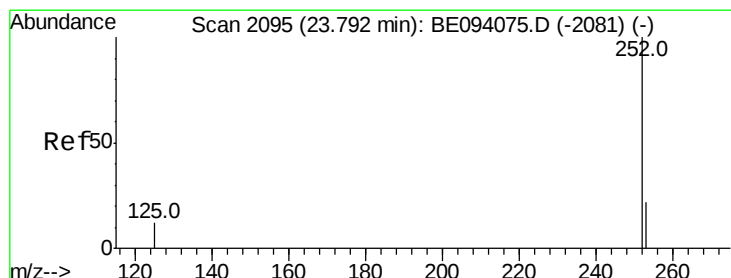
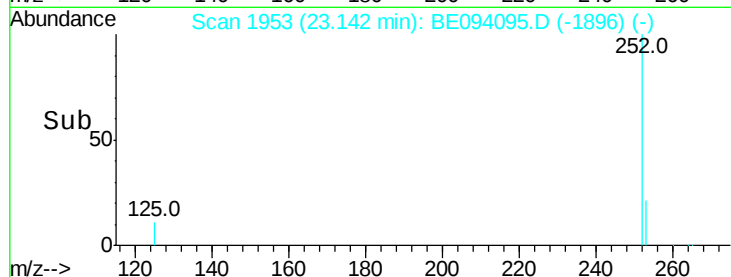
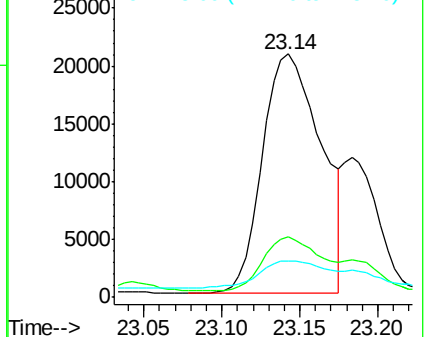
252 100

253 24.7 18.6 27.8

125 15.1 10.7 16.1



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



#37

Benzo(a)pyrene

Concen: 0.806 ng

RT: 23.79 min Scan# 2096

Delta R.T. 0.00 min

Lab File: BE094095.D

Acq: 24 Sep 2017 1:42

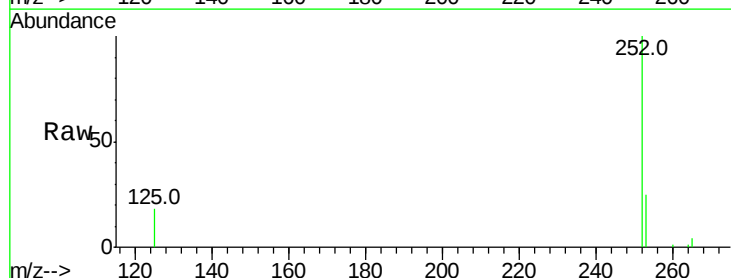
Tgt Ion:252 Resp: 37842

Ion Ratio Lower Upper

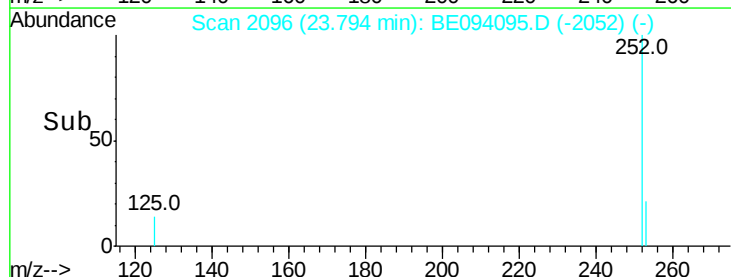
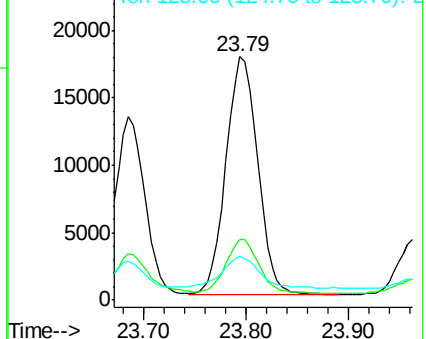
252 100

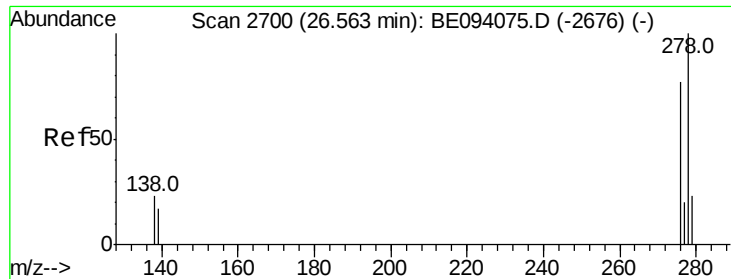
253 24.8 19.0 28.6

125 17.9 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





#38

Dibenzo(a,h)anthracene

Concen: 0.165 ng

RT: 26.56 min Scan# 2699

Delta R.T. -0.00 min

Lab File: BE094095.D

Acq: 24 Sep 2017 1:42

Instrument :

BNA_E

ClientSampleId :

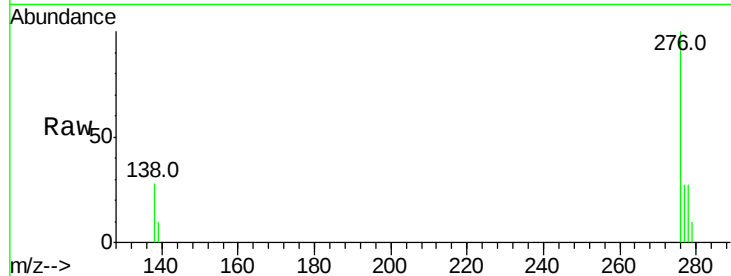
Tot Ion:278 Resp: 6204

Ion Ratio Lower Upper

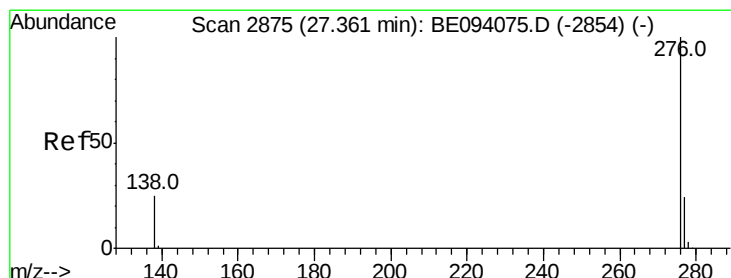
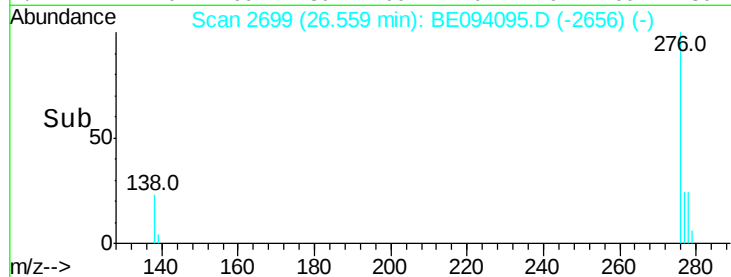
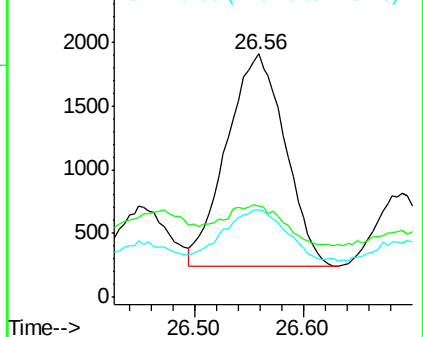
278 100

139 37.4 16.3 24.5#

279 35.7 19.9 29.9#



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#39

Benzo(g,h,i)perylene

Concen: 0.663 ng

RT: 27.37 min Scan# 2878

Delta R.T. 0.01 min

Lab File: BE094095.D

Acq: 24 Sep 2017 1:42

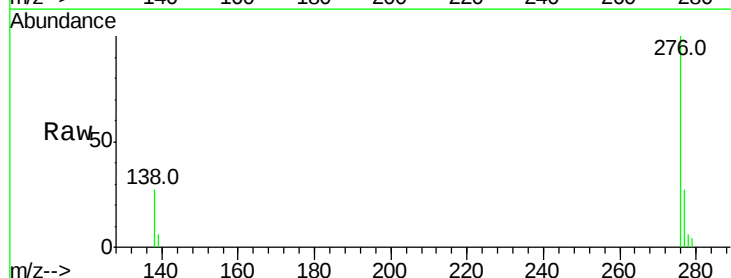
Tgt Ion:276 Resp: 24908

Ion Ratio Lower Upper

276 100

277 26.9 20.8 31.2

138 27.5 21.5 32.3



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

