

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE100318\
 Data File : BE097715.D
 Acq On : 3 Oct 2018 16:14
 Operator : SJ/JU
 Sample : J4870-21DL 5X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WPDL

Quant Time: Oct 03 17:42:15 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE100318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 03 12:17:19 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.90	152	4968	0.40	ng	0.00
7) Naphthalene-d8	10.69	136	20585	0.40	ng	0.00
13) Acenaphthene-d10	14.56	164	12382	0.40	ng	0.00
19) Phenanthrene-d10	17.30	188	33700	0.40	ng	0.00
27) Chrysene-d12	21.49	240	42987	0.40	ng	0.00
34) Perylene-d12	24.04	264	48906	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.47	112	967	0.08	ng	0.00
5) Phenol-d6	7.04	99	1425	0.08	ng	0.00
8) Nitrobenzene-d5	9.06	82	620	0.09	ng	0.01
11) 2-Methylnaphthalene-d10	12.31	152	2382	0.07	ng	0.01
14) 2,4,6-Tribromophenol	16.06	330	143	0.06	ng	0.01
15) 2-Fluorobiphenyl	13.19	172	4113	0.08	ng	0.00
25) Fluoranthene-d10	19.33	212	30274	0.07	ng	0.00
29) Terphenyl-d14	19.93	244	6660	0.08	ng	0.00

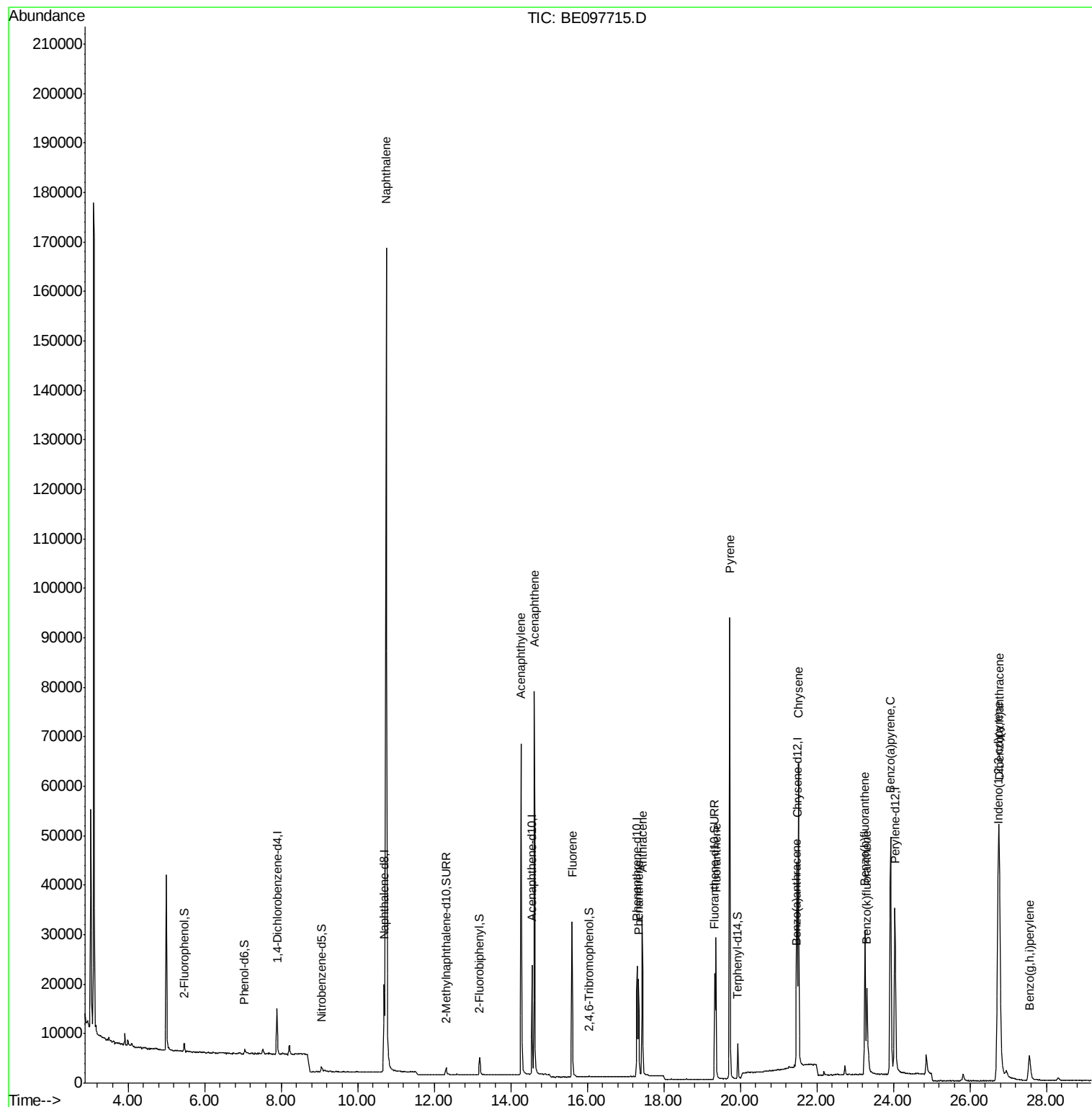
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Naphthalene	10.74	128	285356	1.376	ng	100
16) Acenaphthylene	14.27	152	85394	1.557	ng	98
17) Acenaphthene	14.62	154	41334	1.177	ng	97
18) Fluorene	15.60	166	27947	0.599	ng	100
23) Phenanthrene	17.34	178	20707	0.238	ng	100
24) Anthracene	17.43	178	38303	0.511	ng	98
26) Fluoranthene	19.36	202	27586	0.249	ng	99
28) Pyrene	19.72	202	88306	0.808	ng	100
30) Benzo(a)anthracene	21.46	228	15428	0.133	ng	97
31) Chrysene	21.52	228	53550	0.414	ng	100
33) Indeno(1,2,3-cd)pyrene	26.73	276	100097	0.892	ng	99
35) Benzo(b)fluoranthene	23.26	252	44528	0.332	ng	99
36) Benzo(k)fluoranthene	23.31	252	28508	0.192	ng	99
37) Benzo(a)pyrene	23.93	252	86009	0.708	ng	99
38) Dibenzo(a,h)anthracene	26.77	278	86094	0.719	ng	98
39) Benzo(g,h,i)perylene	27.55	276	15008	0.120	ng	99

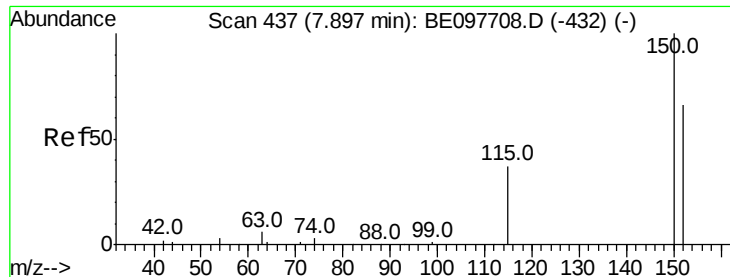
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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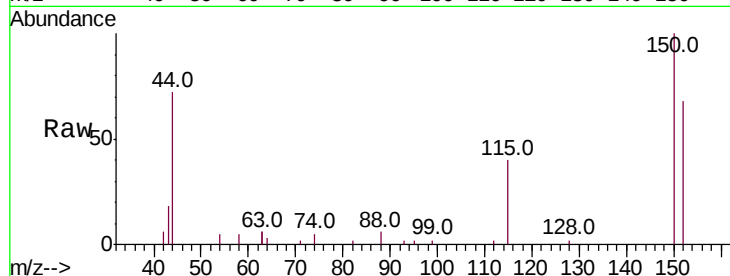


#1

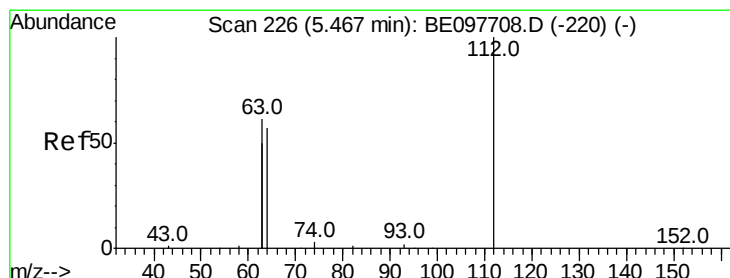
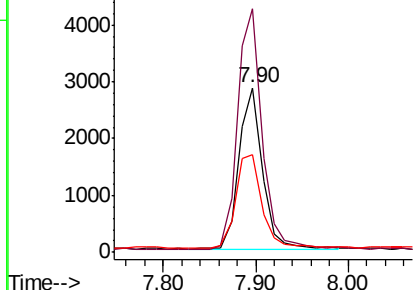
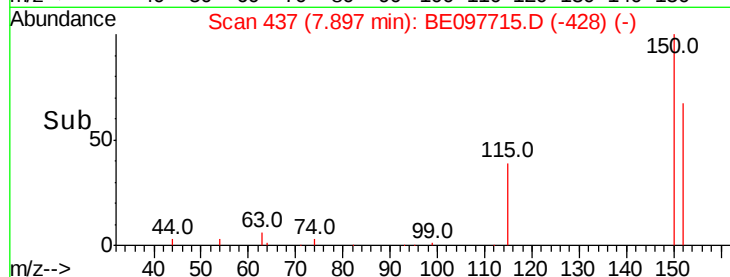
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.90 min Scan# 437
Delta R.T. -0.00 min
Lab File: BE097715.D
Acq: 3 Oct 2018 16:14

Instrument :
BNA_E
ClientSampleId :
RR-PAH-WPDL

Tot Ion:152 Resp: 4968
Ion Ratio Lower Upper
152 100
150 148.1 120.9 181.3
115 59.4 46.6 69.8



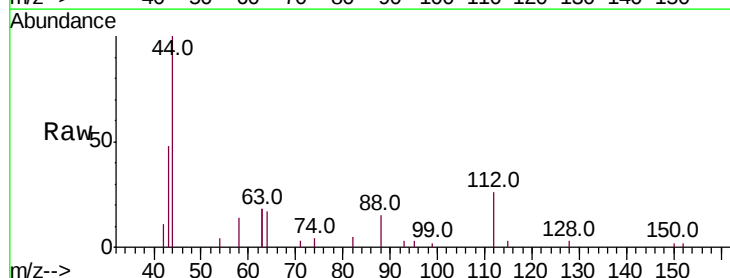
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



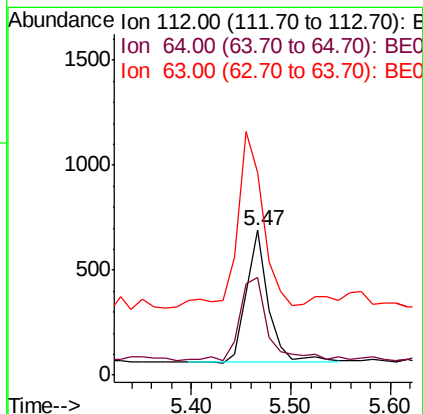
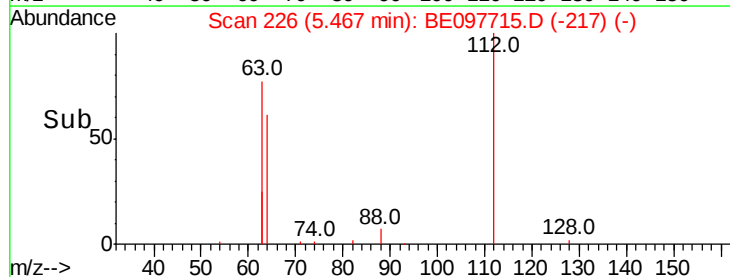
#4

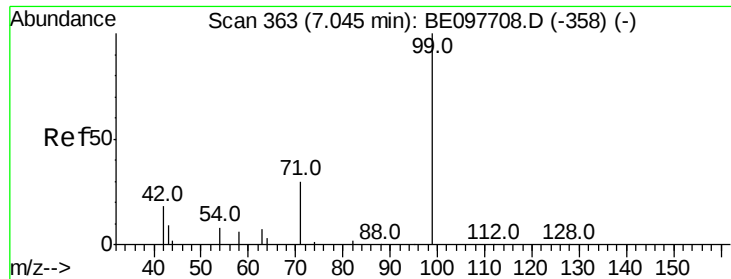
2-Fluorophenol
Concen: 0.082 ng
RT: 5.47 min Scan# 226
Delta R.T. -0.00 min
Lab File: BE097715.D
Acq: 3 Oct 2018 16:14

Tgt Ion:112 Resp: 967
Ion Ratio Lower Upper
112 100
64 83.6 56.6 84.8
63 153.9 119.4 179.0



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: 0.079 ng

RT: 7.04 min Scan# 363

Delta R.T. -0.00 min

Lab File: BE097715.D

Acq: 3 Oct 2018 16:14

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

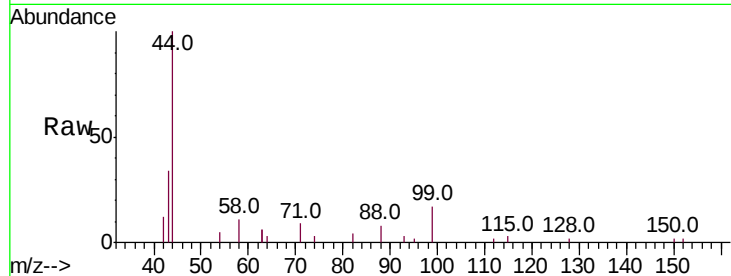
Tot Ion: 99 Resp: 1425

Ion Ratio Lower Upper

99 100

42 20.6 19.9 29.9

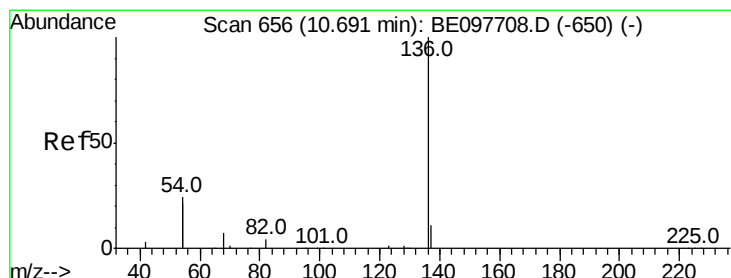
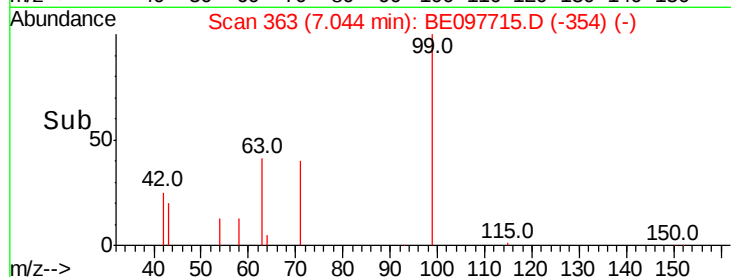
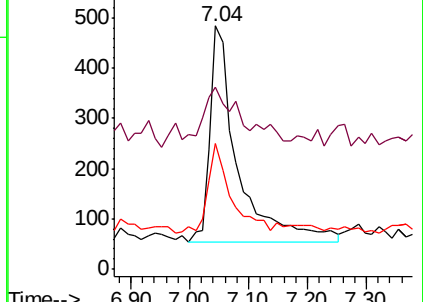
71 33.7 25.4 38.2



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: 0.400 ng

RT: 10.69 min Scan# 656

Delta R.T. 0.00 min

Lab File: BE097715.D

Acq: 3 Oct 2018 16:14

Tgt Ion: 136 Resp: 20585

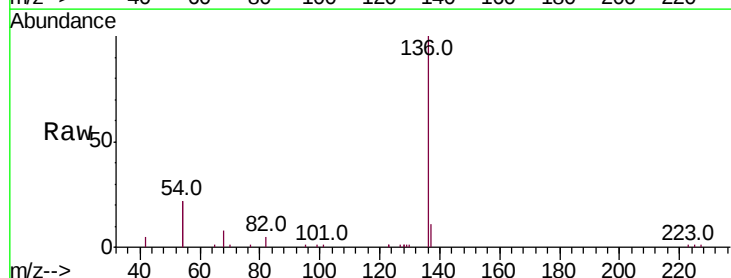
Ion Ratio Lower Upper

136 100

137 10.9 9.0 13.4

54 44.3 37.8 56.6

68 7.6 6.4 9.6

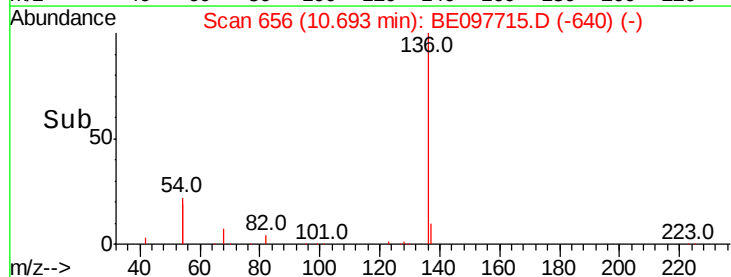
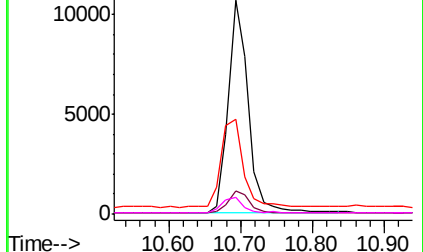


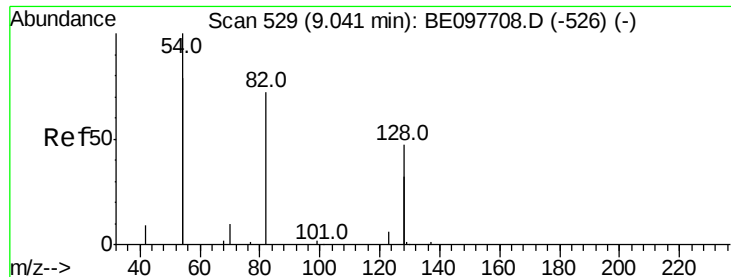
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.093 ng

RT: 9.06 min Scan# 530

Delta R.T. 0.01 min

Lab File: BE097715.D

Acq: 3 Oct 2018 16:14

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

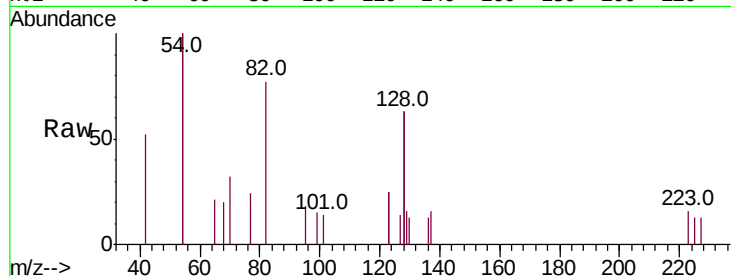
Tot Ion: 82 Resp: 620

Ion Ratio Lower Upper

82 100

128 163.3 97.0 145.4#

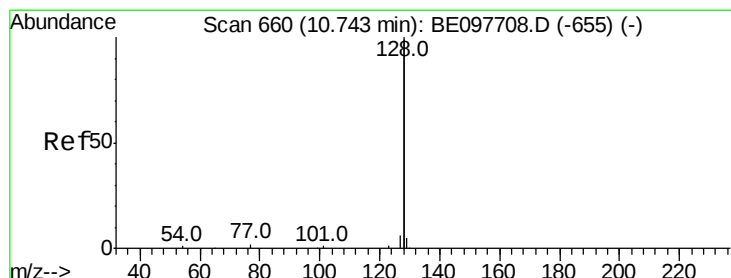
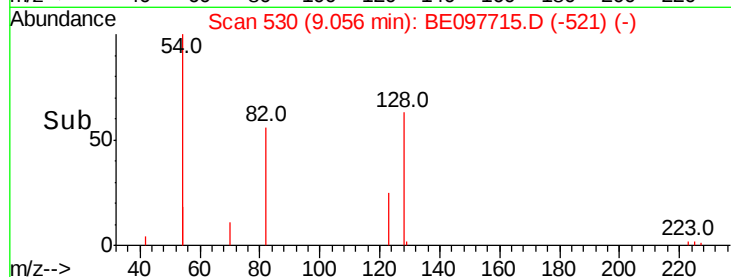
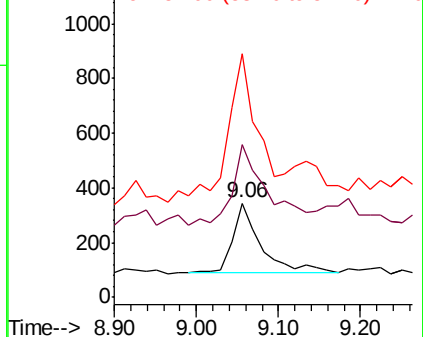
54 259.5 206.9 310.3



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: 1.376 ng

RT: 10.74 min Scan# 660

Delta R.T. 0.00 min

Lab File: BE097715.D

Acq: 3 Oct 2018 16:14

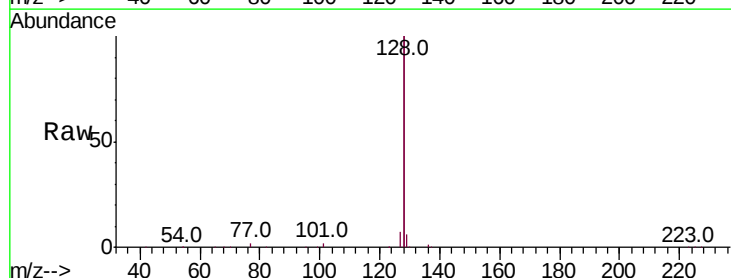
Tgt Ion:128 Resp: 285356

Ion Ratio Lower Upper

128 100

129 2.9 2.2 3.2

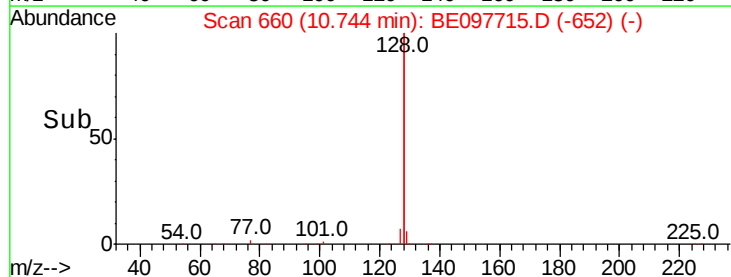
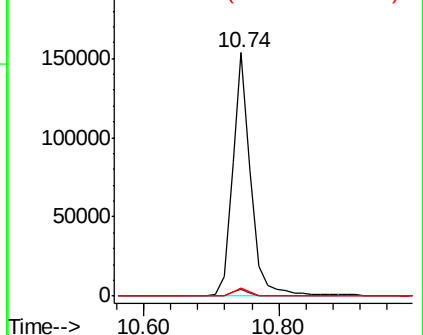
127 3.3 2.7 4.1

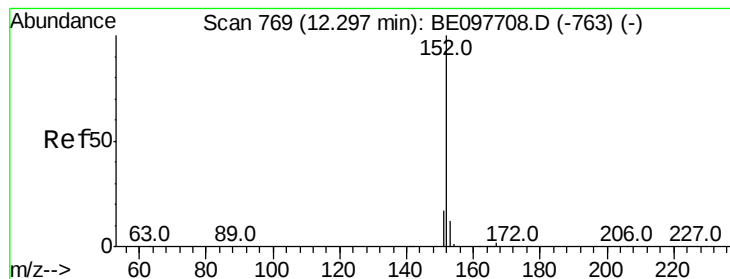


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

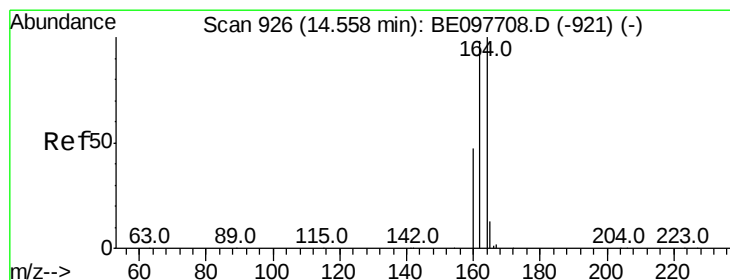
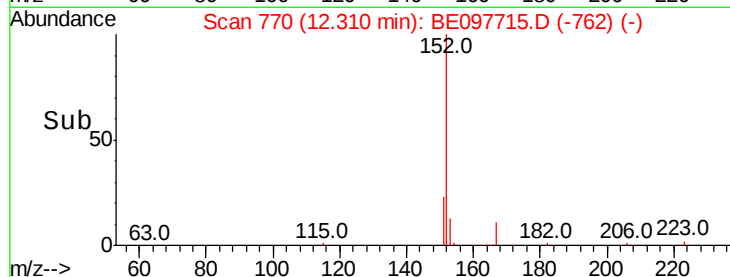
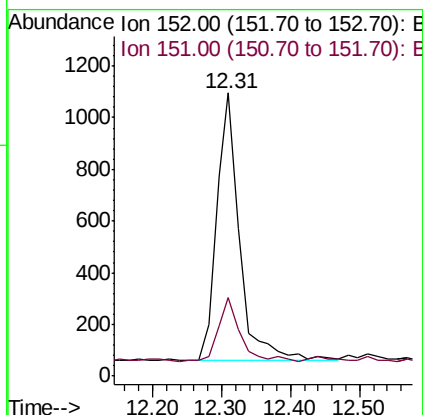
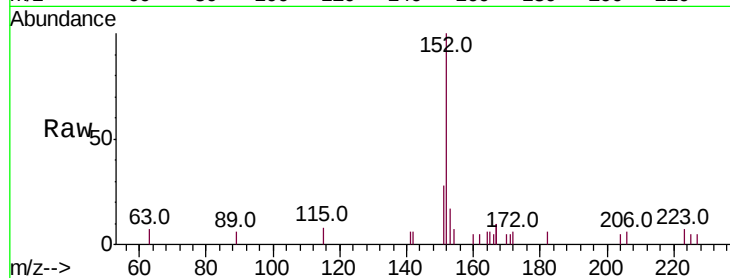




#11
 2-Methylnaphthalene-d10
 Concen: 0.073 ng
 RT: 12.31 min Scan# 770
 Delta R.T. 0.01 min
 Lab File: BE097715.D
 Acq: 3 Oct 2018 16:14

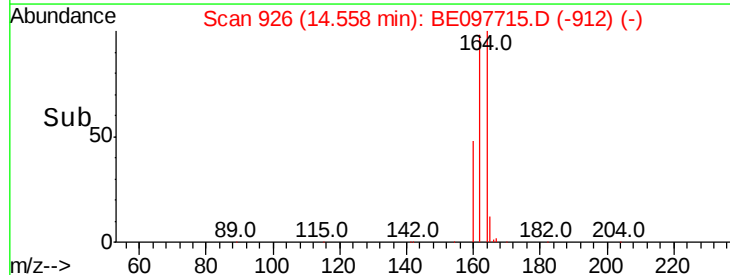
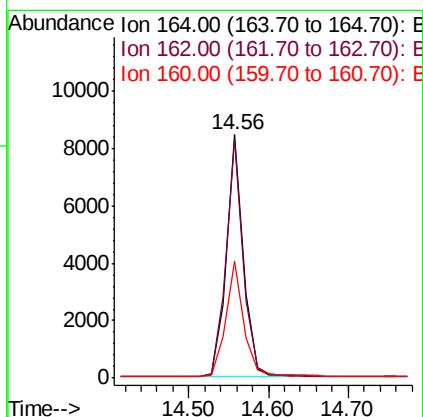
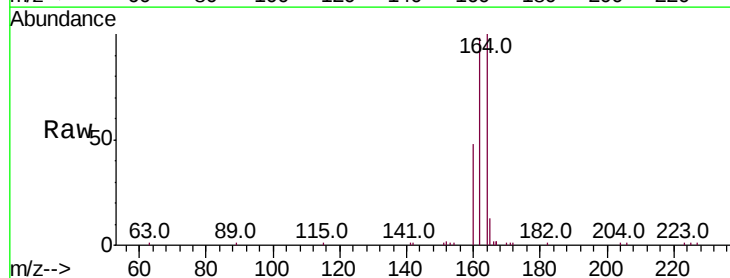
Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WPDL

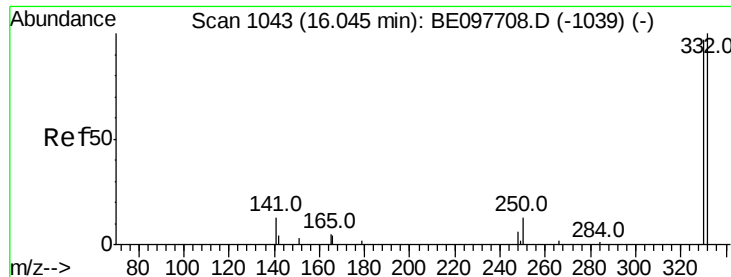
Tot Ion:152 Resp: 2382
 Ion Ratio Lower Upper
 152 100
 151 23.9 15.4 23.2#



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.56 min Scan# 926
 Delta R.T. -0.00 min
 Lab File: BE097715.D
 Acq: 3 Oct 2018 16:14

Tgt Ion:164 Resp: 12382
 Ion Ratio Lower Upper
 164 100
 162 98.1 78.6 117.8
 160 47.9 37.8 56.6





#14

2,4,6-Tribromophenol

Concen: 0.064 ng

RT: 16.06 min Scan# 1044

Delta R.T. 0.01 min

Lab File: BE097715.D

Acq: 3 Oct 2018 16:14

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

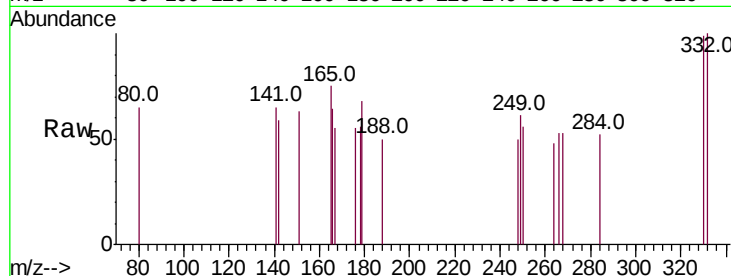
Tot Ion:330 Resp: 143

Ion Ratio Lower Upper

330 100

332 111.2 83.5 125.3

141 72.7 34.9 52.3#



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

150

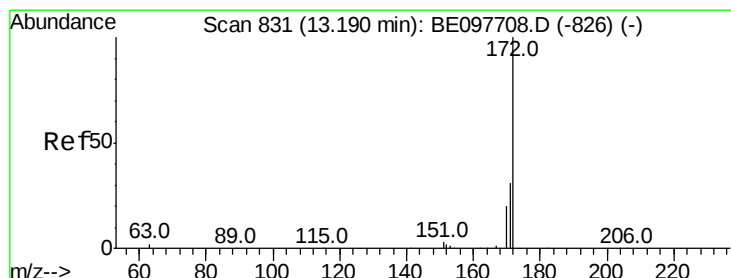
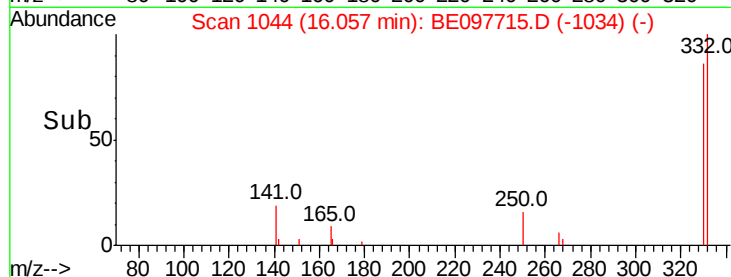
100

50

0

16.00 16.05 16.10

Time-->



#15

2-Fluorobiphenyl

Concen: 0.075 ng

RT: 13.19 min Scan# 831

Delta R.T. -0.00 min

Lab File: BE097715.D

Acq: 3 Oct 2018 16:14

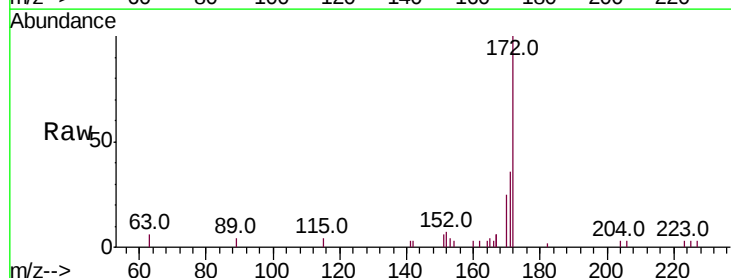
Tgt Ion:172 Resp: 4113

Ion Ratio Lower Upper

172 100

171 36.5 25.2 37.8

170 24.9 16.2 24.2#



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

2500

2000

1500

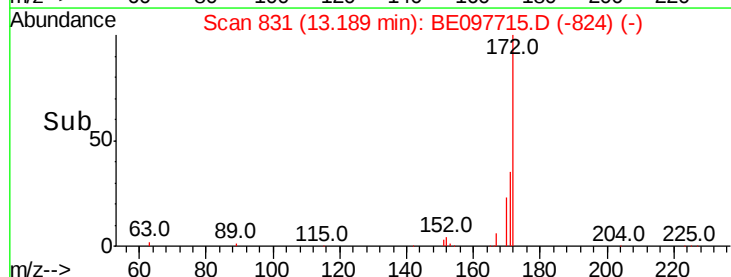
1000

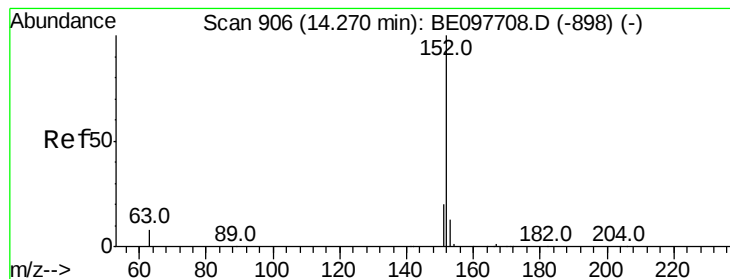
500

0

13.00 13.20 13.40

Time-->





#16

Acenaphthylene

Concen: 1.557 ng

RT: 14.27 min Scan# 906

Delta R.T. -0.00 min

Lab File: BE097715.D

Acq: 3 Oct 2018 16:14

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

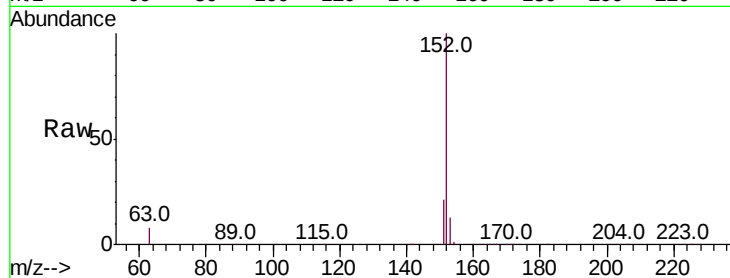
Tot Ion:152 Resp: 85394

Ion Ratio Lower Upper

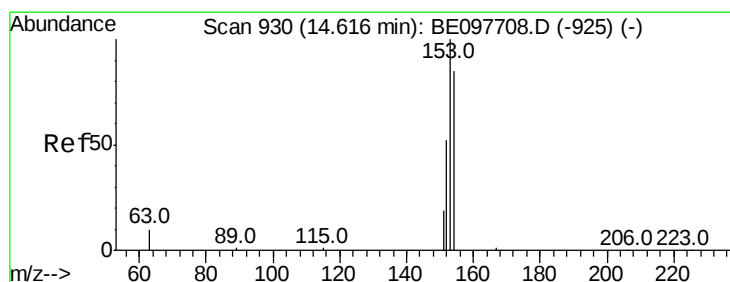
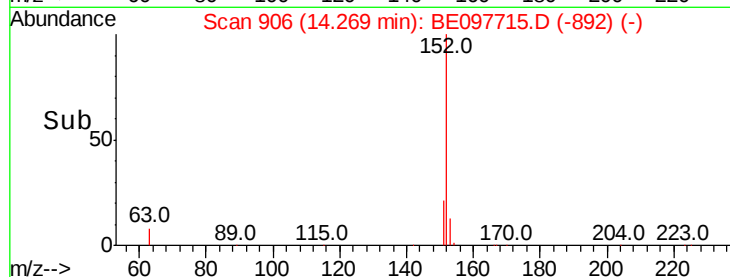
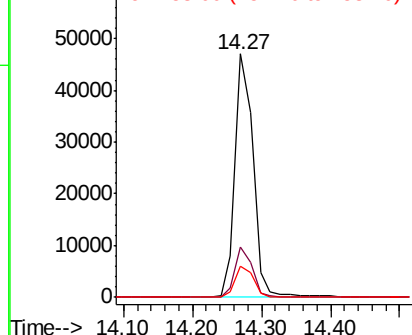
152 100

151 19.9 15.3 22.9

153 13.0 10.8 16.2



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: 1.177 ng

RT: 14.62 min Scan# 930

Delta R.T. -0.00 min

Lab File: BE097715.D

Acq: 3 Oct 2018 16:14

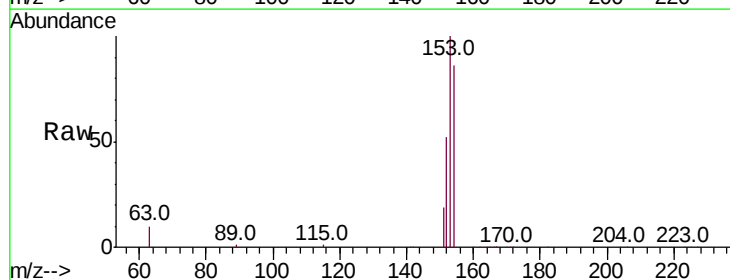
Tgt Ion:154 Resp: 41334

Ion Ratio Lower Upper

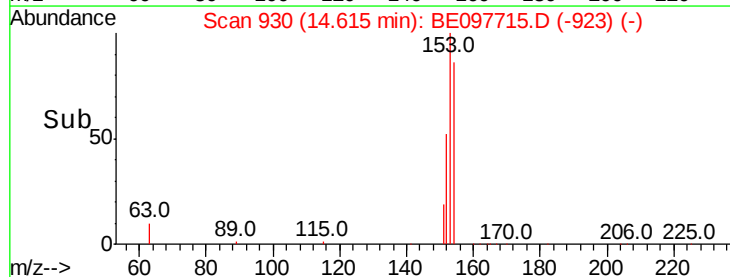
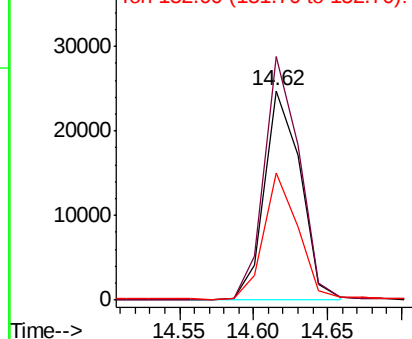
154 100

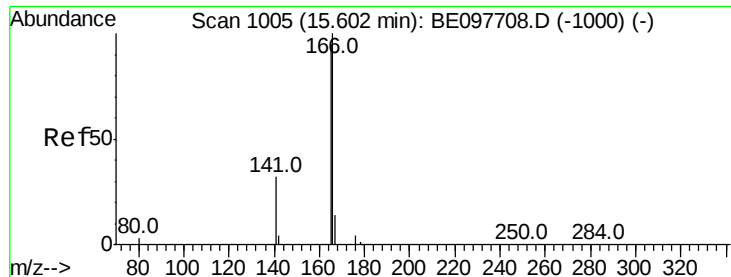
153 114.1 93.3 139.9

152 57.9 48.9 73.3



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: 0.599 ng

RT: 15.60 min Scan# 1005

Delta R.T. 0.00 min

Lab File: BE097715.D

Acq: 3 Oct 2018 16:14

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

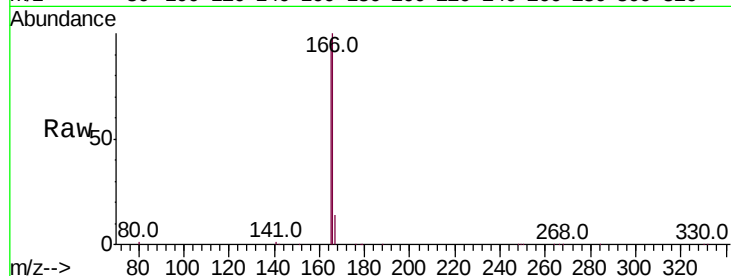
Tot Ion:166 Resp: 27947

Ion Ratio Lower Upper

166 100

165 98.7 79.0 118.4

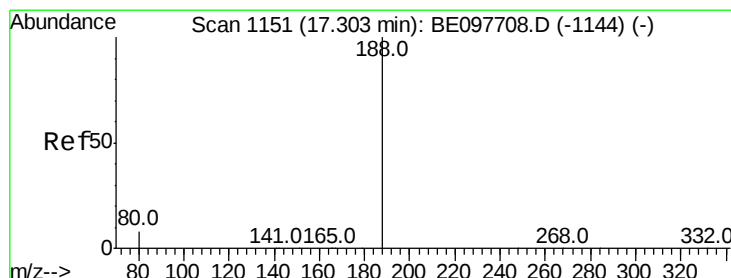
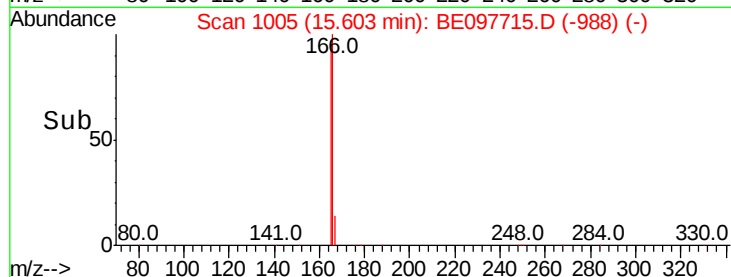
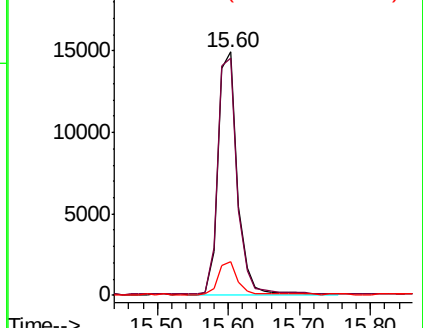
167 13.5 11.1 16.7



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: 17.30 min Scan# 1151

Delta R.T. 0.00 min

Lab File: BE097715.D

Acq: 3 Oct 2018 16:14

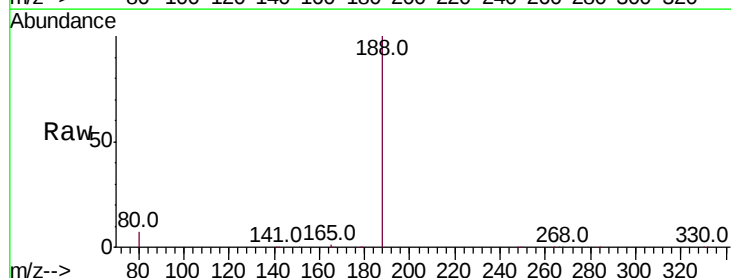
Tgt Ion:188 Resp: 33700

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

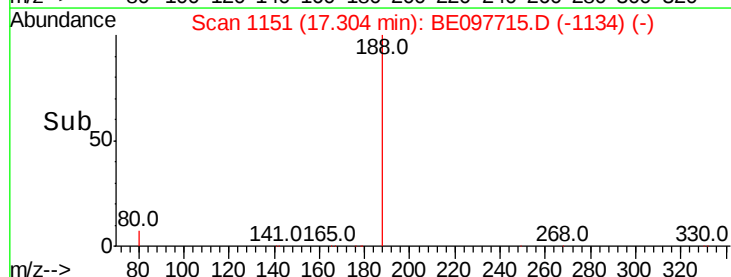
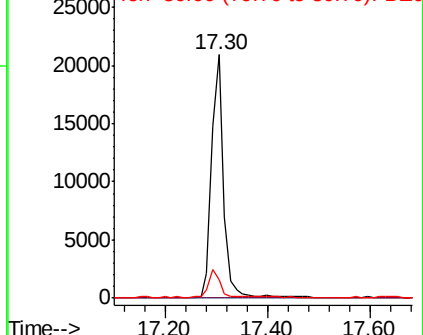
80 7.4 6.6 9.8

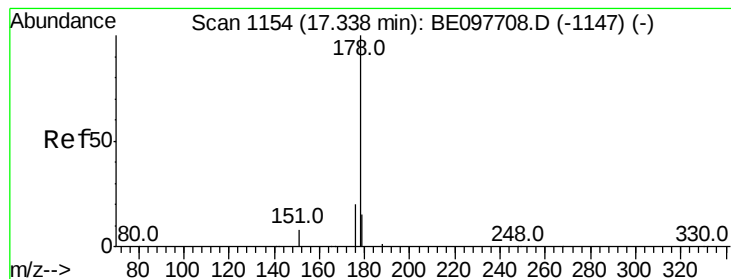


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#23

Phenanthrene

Concen: 0.238 ng

RT: 17.34 min Scan# 1154

Delta R.T. 0.00 min

Lab File: BE097715.D

Acq: 3 Oct 2018 16:14

Instrument :

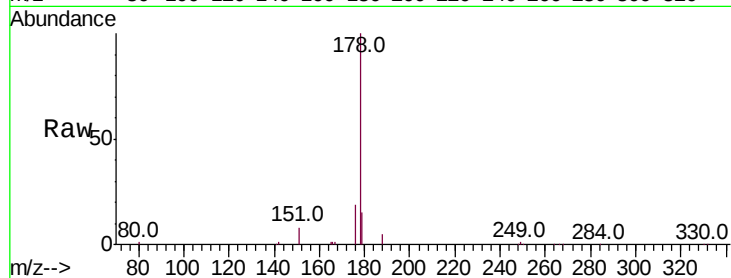
BNA_E

ClientSampleId :

RR-PAH-WPDL

Tot Ion:178 Resp: 20707

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.7	12.2	18.4

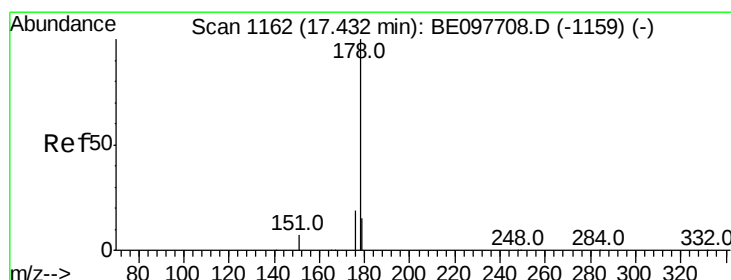
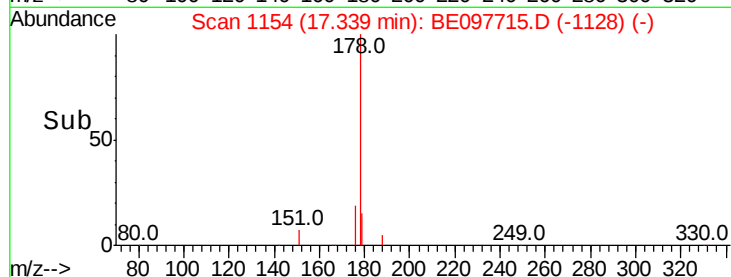
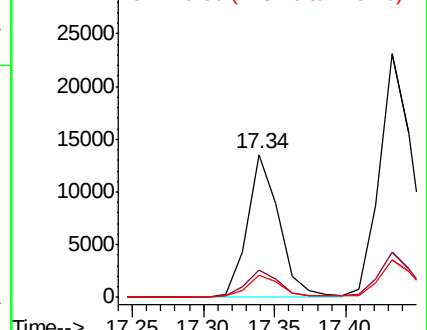


Abundance

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



#24

Anthracene

Concen: 0.511 ng

RT: 17.43 min Scan# 1162

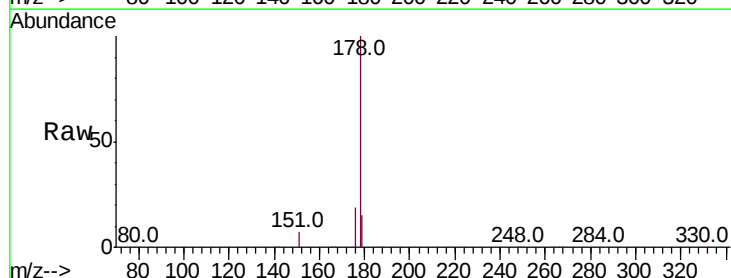
Delta R.T. 0.00 min

Lab File: BE097715.D

Acq: 3 Oct 2018 16:14

Tgt Ion:178 Resp: 38303

Ion	Ratio	Lower	Upper
178	100		
176	17.7	15.1	22.7
179	14.9	12.2	18.2

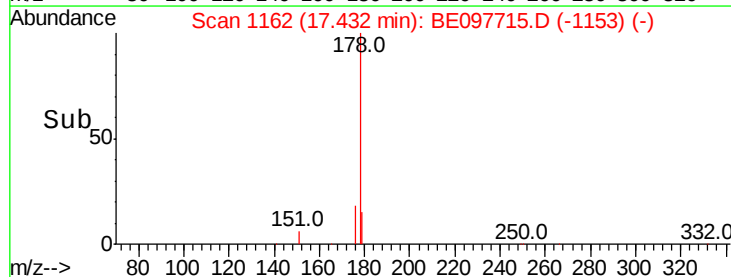
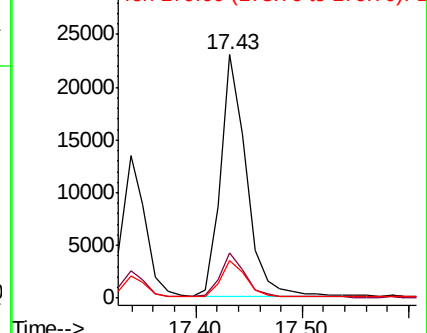


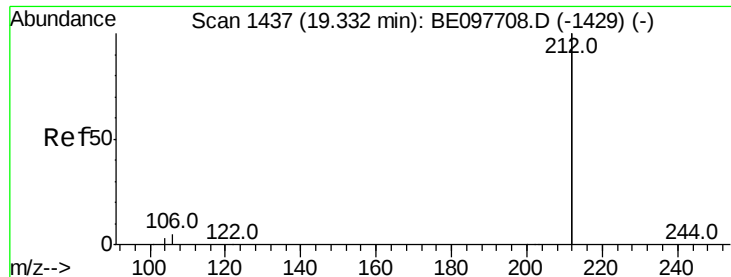
Abundance

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

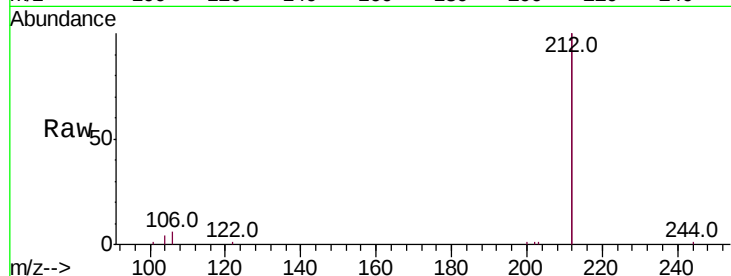




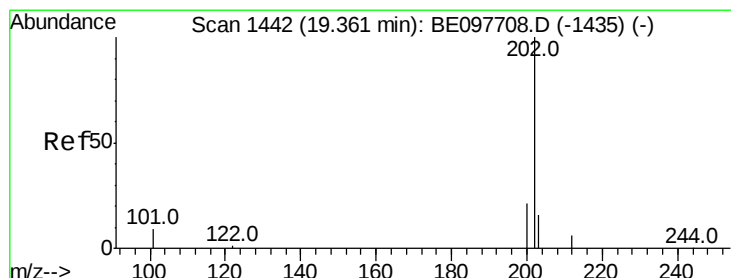
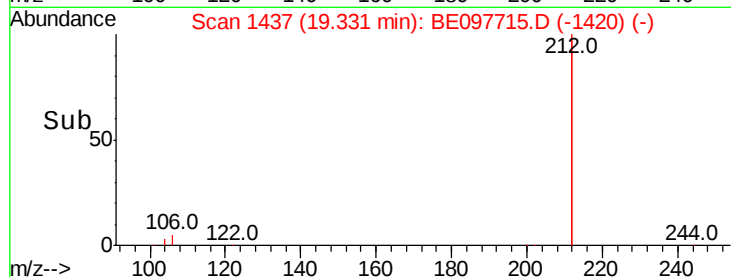
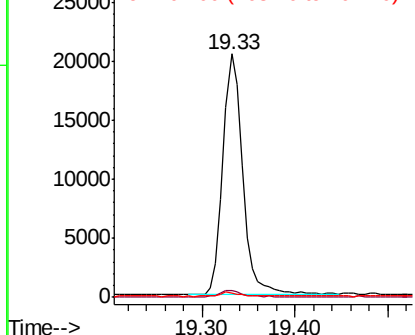
#25
Fluoranthene-d10
Concen: 0.071 ng
RT: 19.33 min Scan# 1437
Delta R.T. -0.00 min
Lab File: BE097715.D
Acq: 3 Oct 2018 16:14

Instrument :
BNA_E
ClientSampleId :
RR-PAH-WPDL

Tot Ion:212 Resp: 30274
Ion Ratio Lower Upper
212 100
106 2.6 2.2 3.2
104 1.6 1.2 1.8

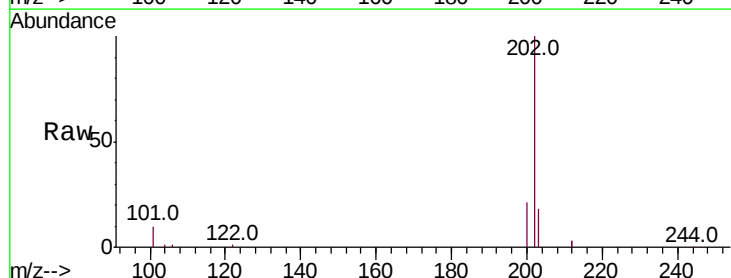


Abundance Ion 212.00 (211.70 to 212.70): E
Ion 106.00 (105.70 to 106.70): E
Ion 104.00 (103.70 to 104.70): E

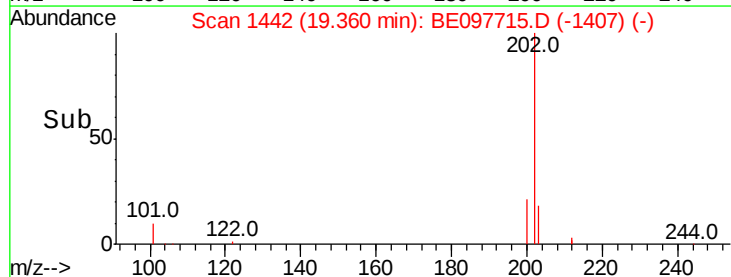
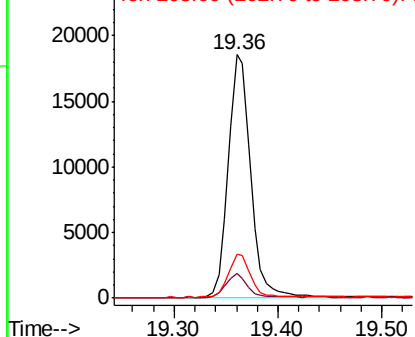


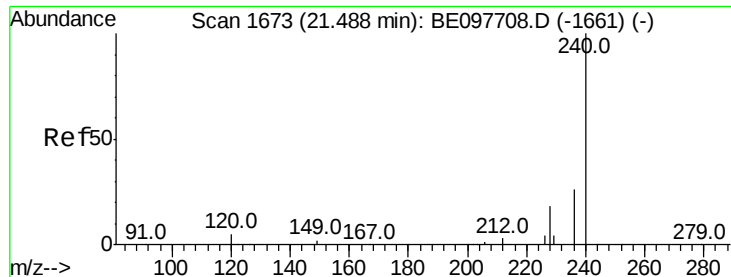
#26
Fluoranthene
Concen: 0.249 ng
RT: 19.36 min Scan# 1442
Delta R.T. -0.00 min
Lab File: BE097715.D
Acq: 3 Oct 2018 16:14

Tgt Ion:202 Resp: 27586
Ion Ratio Lower Upper
202 100
101 9.3 7.8 11.8
203 17.6 13.8 20.6



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

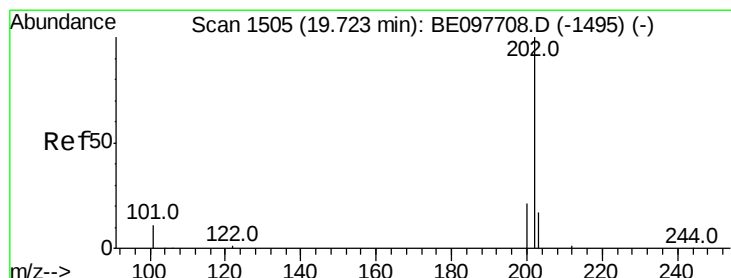
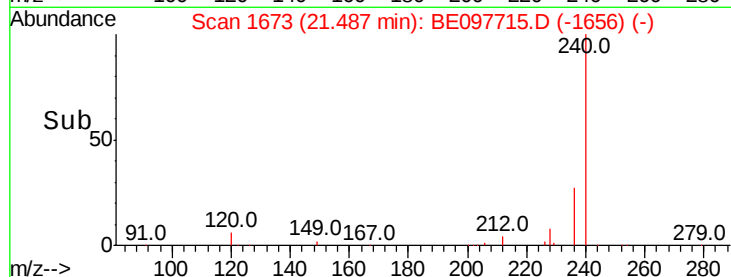
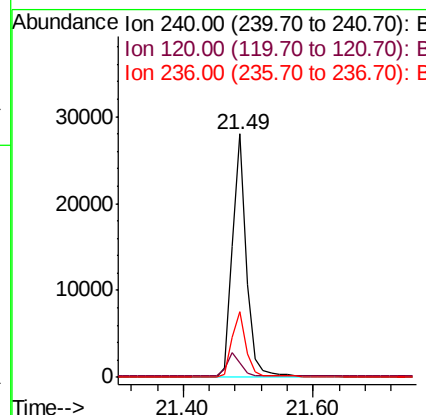
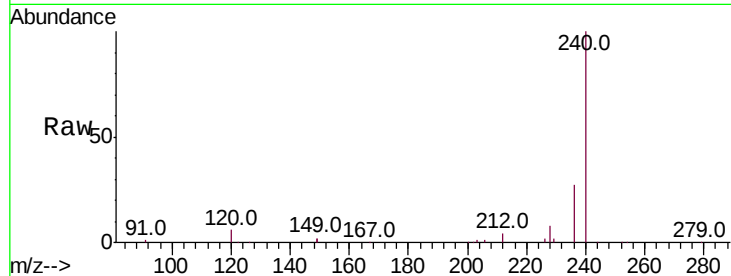




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.49 min Scan# 1673
 Delta R.T. -0.00 min
 Lab File: BE097715.D
 Acq: 3 Oct 2018 16:14

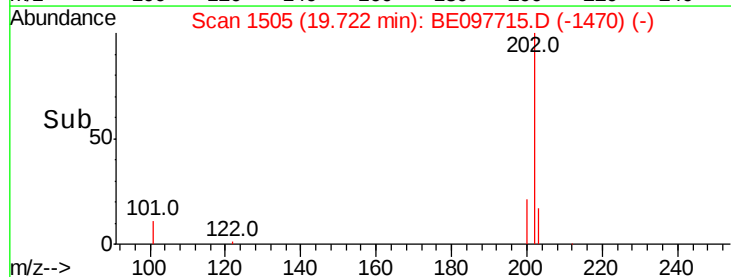
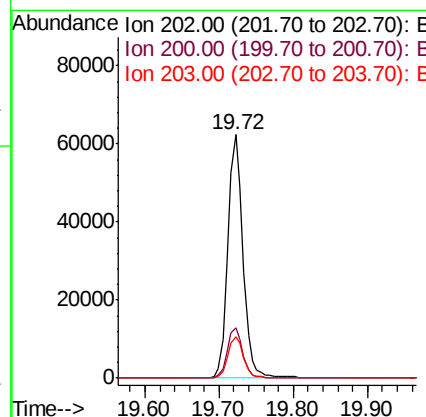
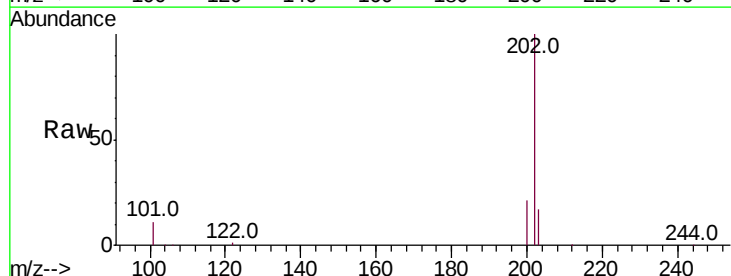
Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WPDL

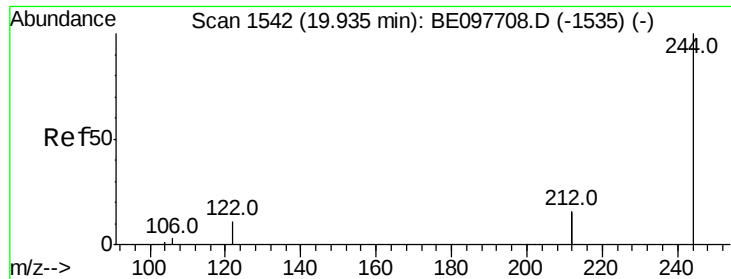
Tot Ion:240 Resp: 42987
 Ion Ratio Lower Upper
 240 100
 120 6.1 4.7 7.1
 236 26.8 20.8 31.2



#28
 Pyrene
 Concen: 0.808 ng
 RT: 19.72 min Scan# 1505
 Delta R.T. -0.00 min
 Lab File: BE097715.D
 Acq: 3 Oct 2018 16:14

Tgt Ion:202 Resp: 88306
 Ion Ratio Lower Upper
 202 100
 200 21.0 16.7 25.1
 203 17.3 13.9 20.9





#29

Terphenyl-d14

Concen: 0.076 ng

RT: 19.93 min Scan# 1542

Delta R.T. -0.00 min

Lab File: BE097715.D

Acq: 3 Oct 2018 16:14

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

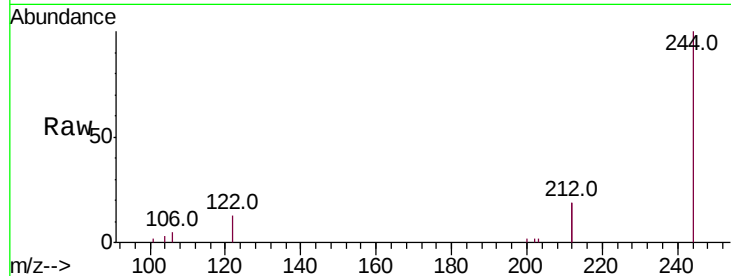
Tot Ion:244 Resp: 6660

Ion Ratio Lower Upper

244 100

212 37.4 25.8 38.8

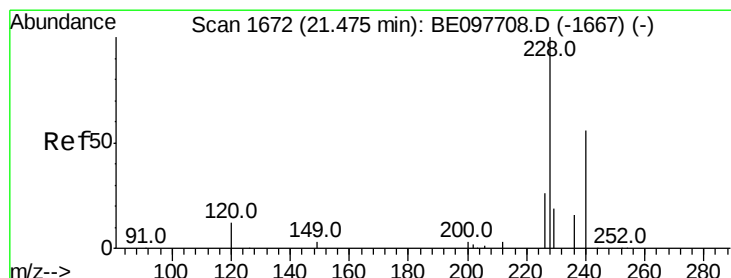
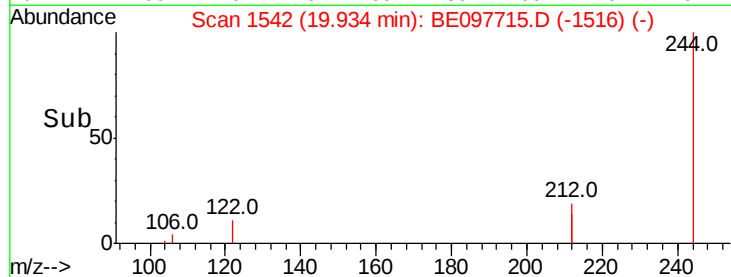
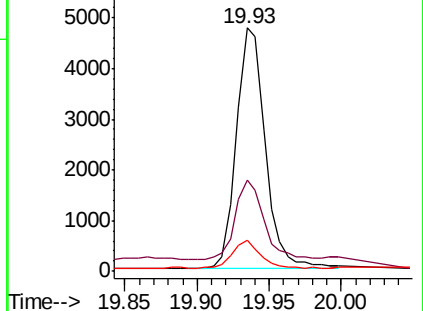
122 12.6 8.7 13.1



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



#30

Benzo(a)anthracene

Concen: 0.133 ng

RT: 21.46 min Scan# 1671

Delta R.T. -0.01 min

Lab File: BE097715.D

Acq: 3 Oct 2018 16:14

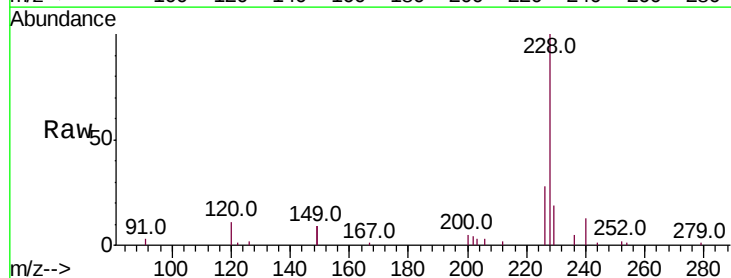
Tgt Ion:228 Resp: 15428

Ion Ratio Lower Upper

228 100

226 28.0 20.7 31.1

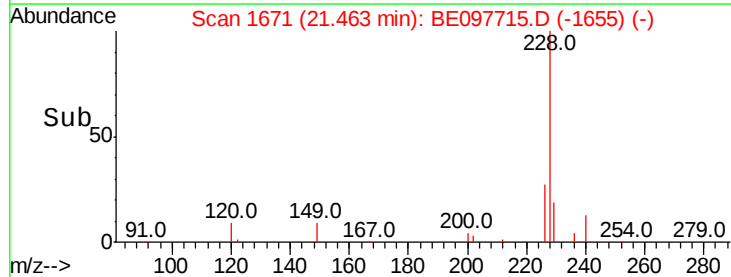
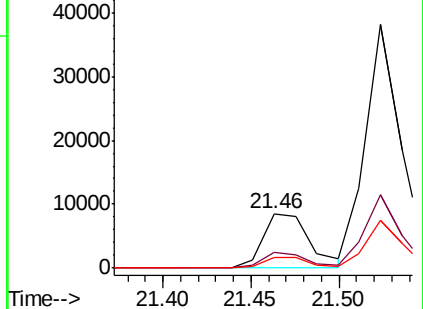
229 19.2 15.7 23.5

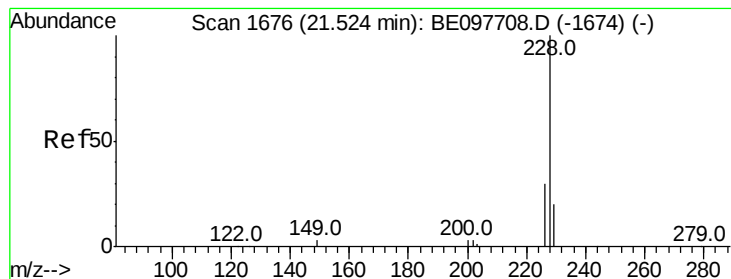


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.414 ng

RT: 21.52 min Scan# 1676

Delta R.T. -0.00 min

Lab File: BE097715.D

Acq: 3 Oct 2018 16:14

Instrument :

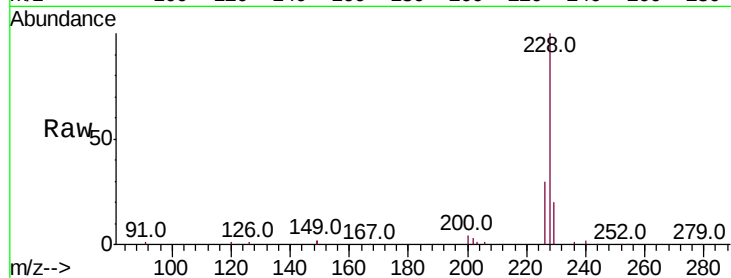
BNA_E

ClientSampleId :

RR-PAH-WPDL

Tot Ion:228 Resp: 53550

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.3	36.5
229	19.6	16.0	24.0

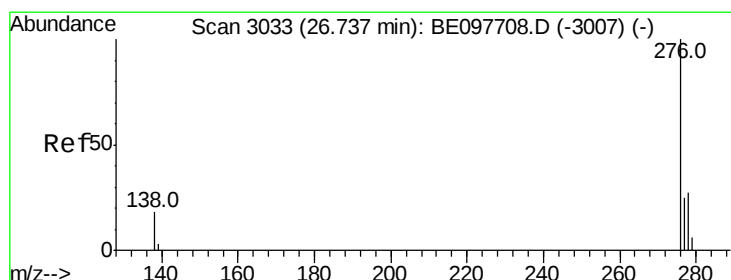
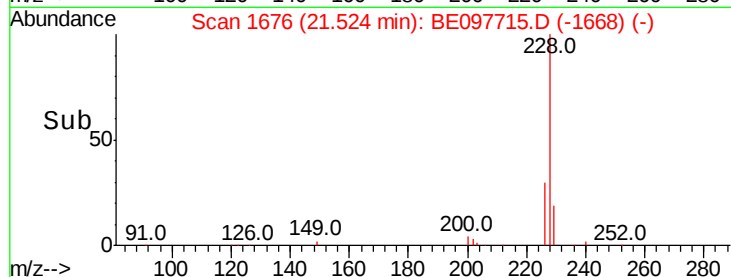
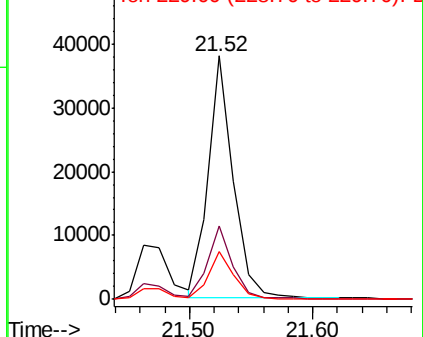


Abundance

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



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.892 ng

RT: 26.73 min Scan# 3031

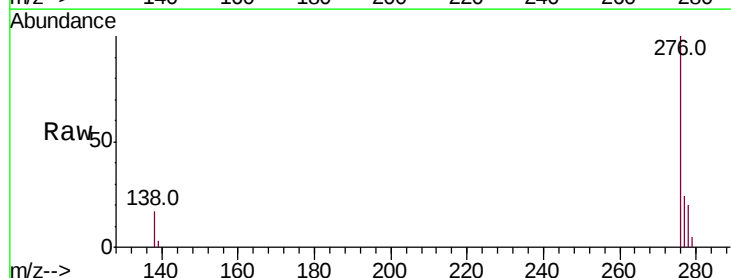
Delta R.T. -0.01 min

Lab File: BE097715.D

Acq: 3 Oct 2018 16:14

Tgt Ion:276 Resp: 100097

Ion	Ratio	Lower	Upper
276	100		
138	19.5	15.0	22.6
277	24.4	19.2	28.8

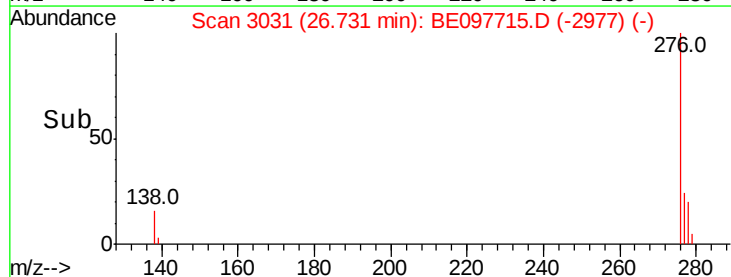
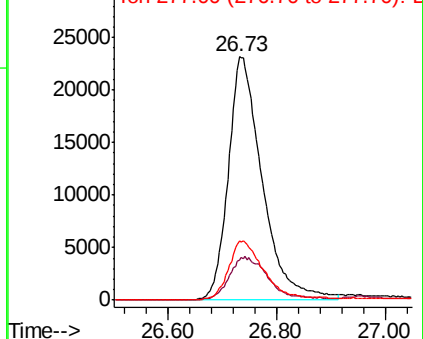


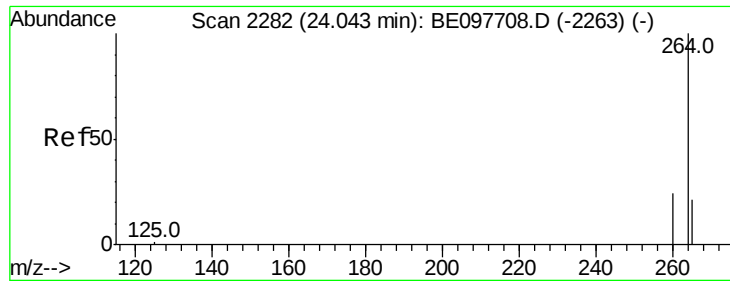
Abundance

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

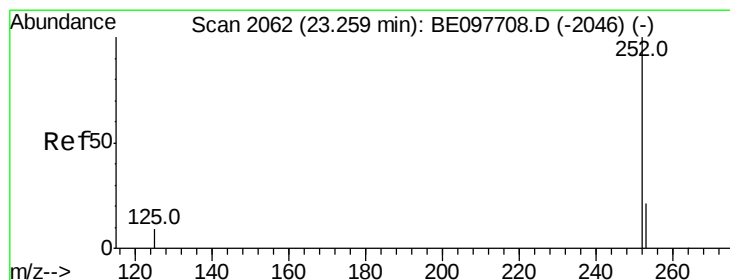
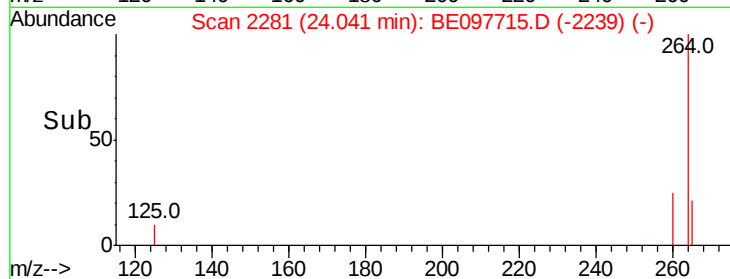
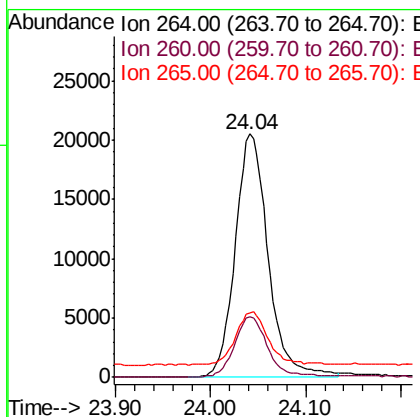
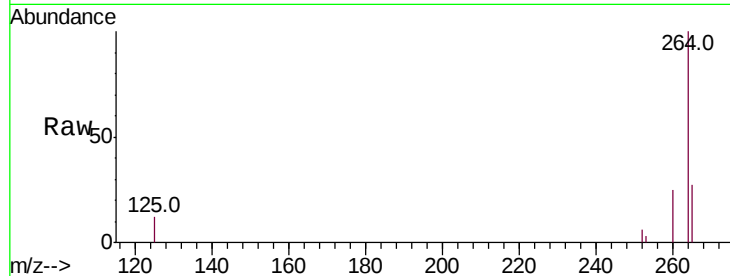




#34
Pervlene-d12
Concen: 0.400 ng
RT: 24.04 min Scan# 2281
Delta R.T. -0.00 min
Lab File: BE097715.D
Acq: 3 Oct 2018 16:14

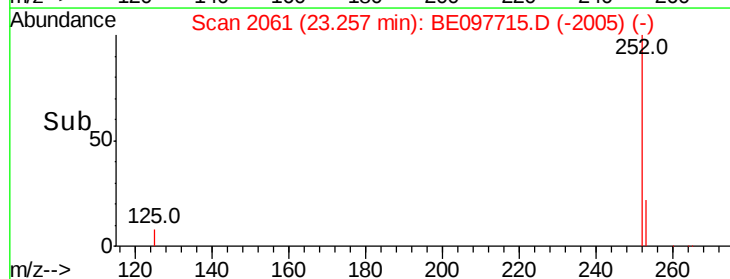
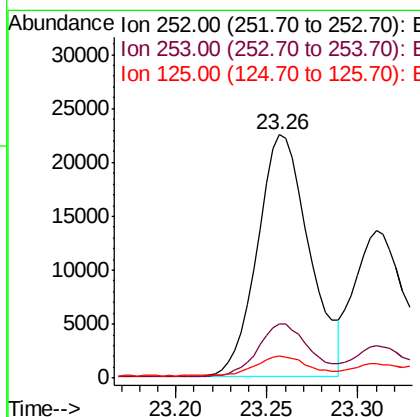
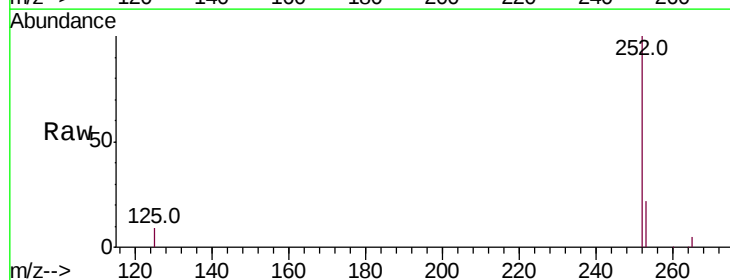
Instrument :
BNA_E
ClientSampleId :
RR-PAH-WPDL

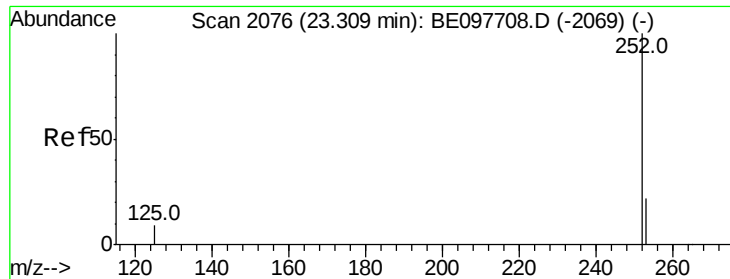
Tot Ion:264 Resp: 48906
Ion Ratio Lower Upper
264 100
260 25.0 19.1 28.7
265 26.6 21.9 32.9



#35
Benzo(b)fluoranthene
Concen: 0.332 ng
RT: 23.26 min Scan# 2061
Delta R.T. -0.00 min
Lab File: BE097715.D
Acq: 3 Oct 2018 16:14

Tgt Ion:252 Resp: 44528
Ion Ratio Lower Upper
252 100
253 22.5 17.5 26.3
125 9.2 7.8 11.8

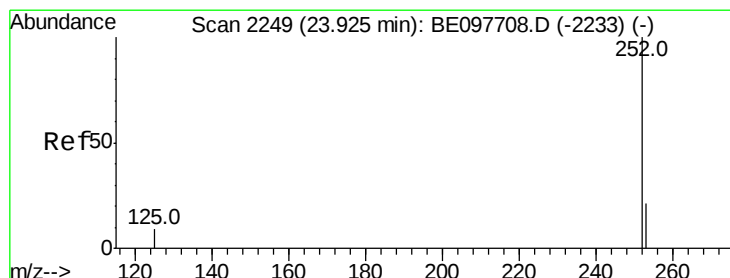
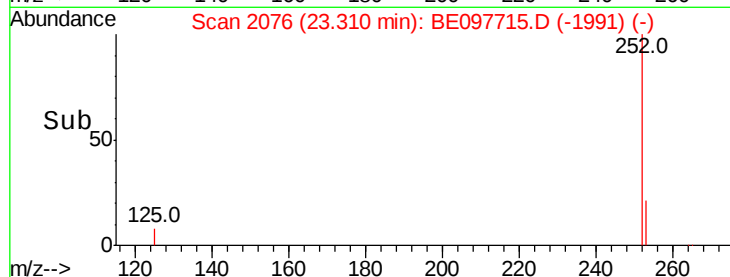
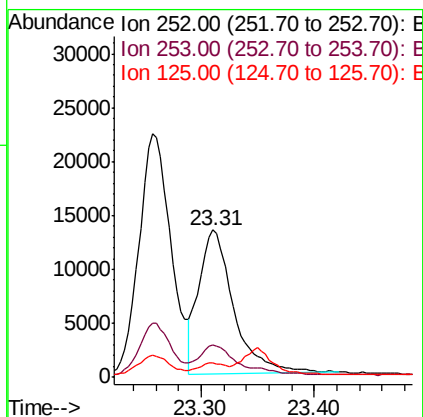
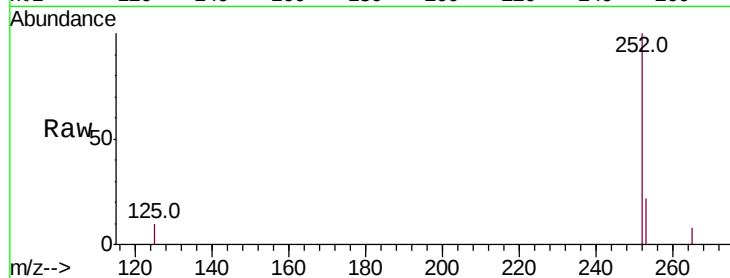




#36
Benzo(k)fluoranthene
Concen: 0.192 ng
RT: 23.31 min Scan# 2076
Delta R.T. 0.00 min
Lab File: BE097715.D
Acq: 3 Oct 2018 16:14

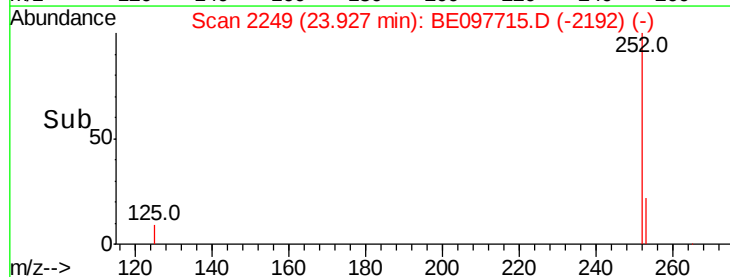
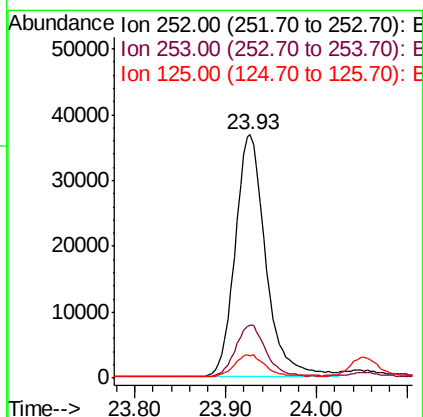
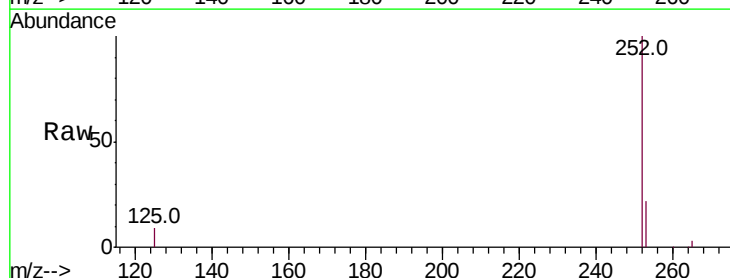
Instrument :
BNA_E
ClientSampleId :
RR-PAH-WPDL

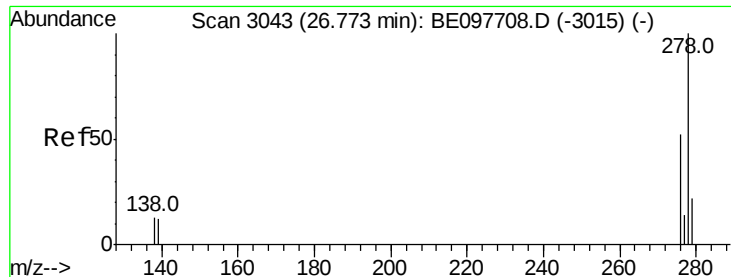
Tot Ion:252 Resp: 28508
Ion Ratio Lower Upper
252 100
253 22.1 17.5 26.3
125 9.9 7.5 11.3



#37
Benzo(a)pyrene
Concen: 0.708 ng
RT: 23.93 min Scan# 2249
Delta R.T. 0.00 min
Lab File: BE097715.D
Acq: 3 Oct 2018 16:14

Tgt Ion:252 Resp: 86009
Ion Ratio Lower Upper
252 100
253 22.0 17.7 26.5
125 9.4 8.3 12.5





#38

Dibenzo(a,h)anthracene

Concen: 0.719 ng

RT: 26.77 min Scan# 3042

Delta R.T. -0.00 min

Lab File: BE097715.D

Acq: 3 Oct 2018 16:14

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

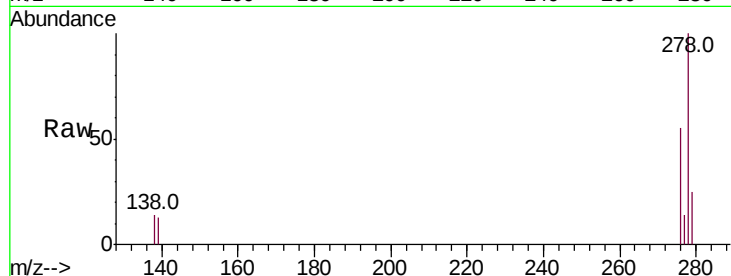
Tot Ion:278 Resp: 86094

Ion Ratio Lower Upper

278 100

139 12.7 10.3 15.5

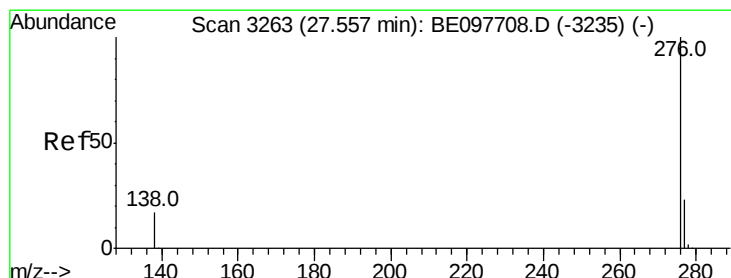
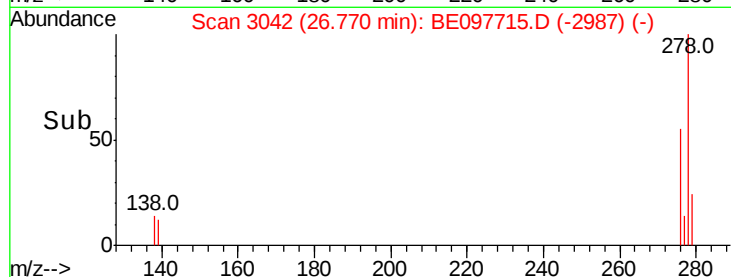
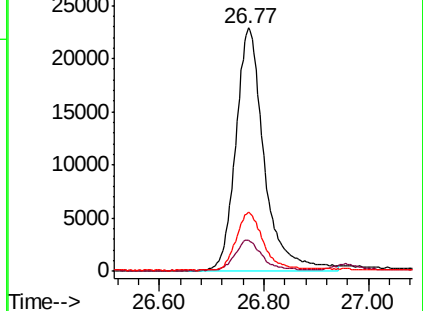
279 24.6 18.4 27.6



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#39

Benzo(g,h,i)perylene

Concen: 0.120 ng

RT: 27.55 min Scan# 3262

Delta R.T. -0.00 min

Lab File: BE097715.D

Acq: 3 Oct 2018 16:14

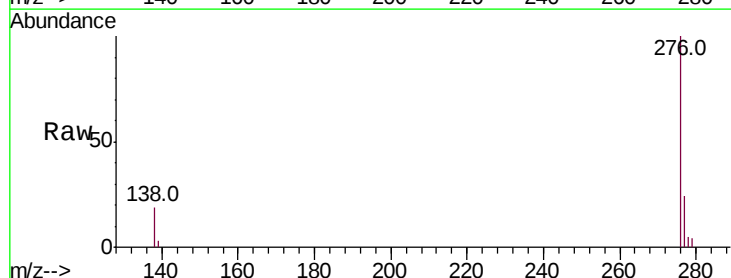
Tgt Ion:276 Resp: 15008

Ion Ratio Lower Upper

276 100

277 24.0 19.1 28.7

138 18.7 14.2 21.2



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

