

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070319\
 Data File : BE100359.D
 Acq On : 4 Jul 2019 10:24
 Operator : JU/SJ
 Sample : K3558-11
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-032-SW174-062519

Quant Time: Jul 05 01:14:15 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 28 14:06:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.63	152	672	0.40	ng	-0.01
7) Naphthalene-d8	10.43	136	2396	0.40	ng	-0.01
13) Acenaphthene-d10	14.31	164	1903	0.40	ng	0.00
19) Phenanthrene-d10	17.05	188	5919	0.40	ng	0.00
27) Chrysene-d12	21.25	240	7800	0.40	ng	0.00
34) Perylene-d12	23.67	264	9303	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.20	112	448	0.26	ng	-0.01
5) Phenol-d6	6.82	99	596	0.26	ng	-0.01
8) Nitrobenzene-d5	8.81	82	540	0.23	ng	-0.01
11) 2-Methylnaphthalene-d10	12.04	152	1098	0.24	ng	-0.01
14) 2,4,6-Tribromophenol	15.81	330	324	0.24	ng	-0.01
15) 2-Fluorobiphenyl	12.93	172	1590	0.21	ng	-0.01
25) Fluoranthene-d10	19.09	212	16734	0.19	ng	0.00
29) Terphenyl-d14	19.69	244	3474	0.21	ng	-0.01

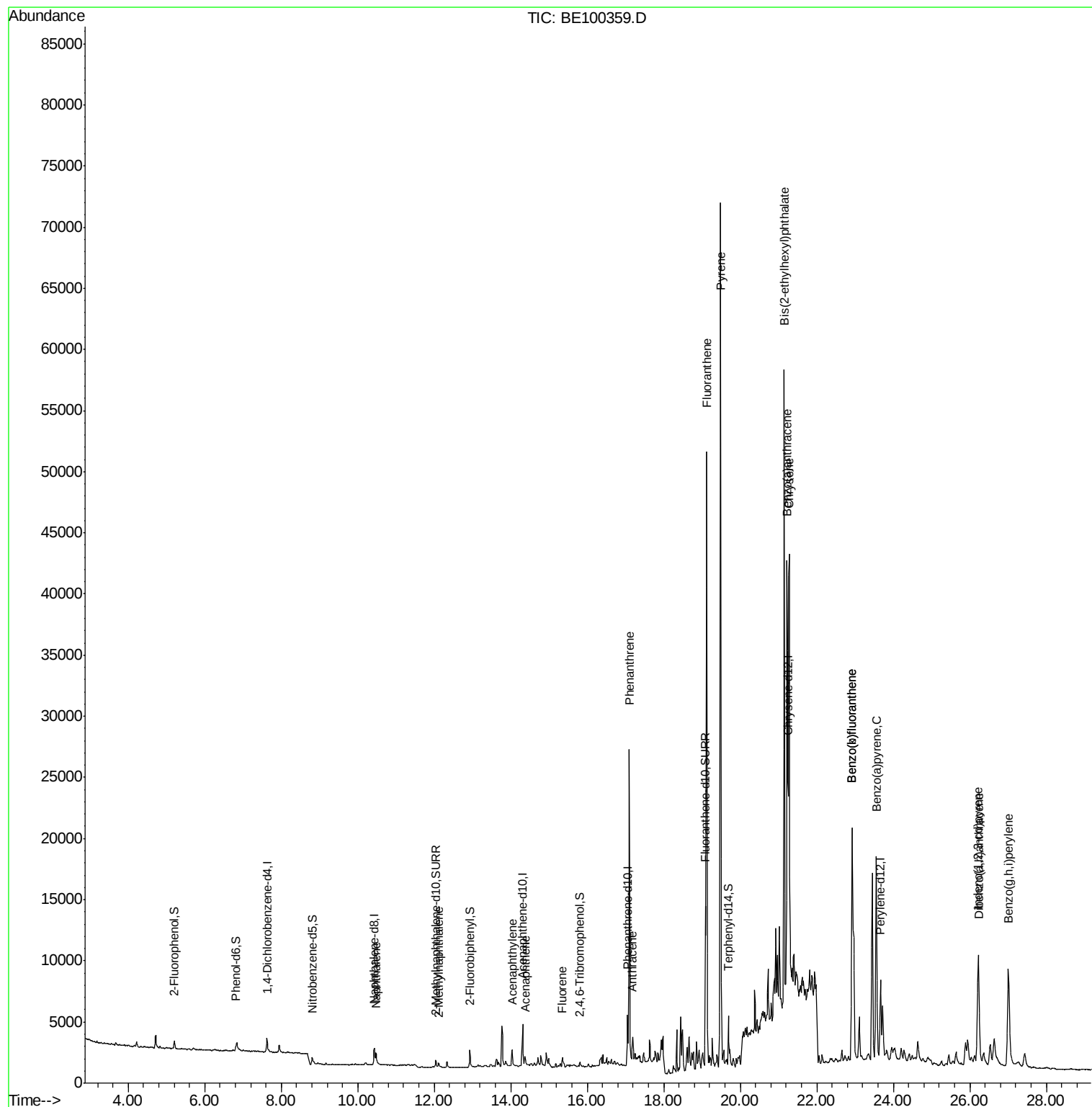
Target Compounds				Qvalue		
9) Naphthalene	10.48	128	1995	0.075	ng	# 90
12) 2-Methylnaphthalene	12.11	142	336	0.072	ng	# 90
16) Acenaphthylene	14.04	152	2114	0.231	ng	98
17) Acenaphthene	14.37	154	362	0.070	ng	# 89
18) Fluorene	15.35	166	729	0.095	ng	# 74
23) Phenanthrene	17.09	178	27280	1.902	ng	99
24) Anthracene	17.19	178	2628	0.203	ng	# 90
26) Fluoranthene	19.12	202	47761	2.090	ng	99
28) Pyrene	19.48	202	69026	3.343	ng	# 96
30) Benzo(a)anthracene	21.22	228	33260	1.297	ng	95
31) Chrysene	21.28	228	40818	1.585	ng	96
32) Bis(2-ethylhexyl)phthalate	21.15	149	54475	1.445	ng	100
33) Indeno(1,2,3-cd)pyrene	26.22	276	18498	0.543	ng	# 96
35) Benzo(b)fluoranthene	22.92	252	36471	1.446	ng	# 97
36) Benzo(k)fluoranthene	22.92	252	36471	1.295	ng	96
37) Benzo(a)pyrene	23.56	252	28015	1.108	ng	# 96
38) Dibenzo(a,h)anthracene	26.24	278	4926	0.187	ng	# 77
39) Benzo(a,h,i)perylene	27.01	276	22128	0.816	ng	98

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

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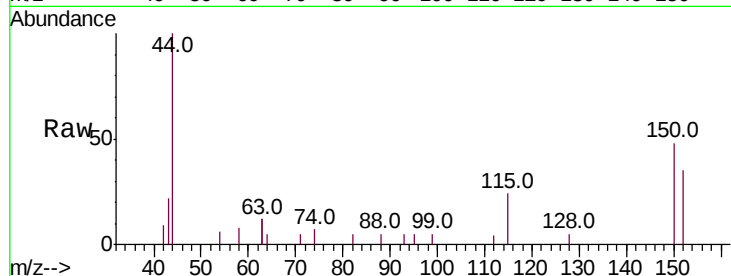


#1

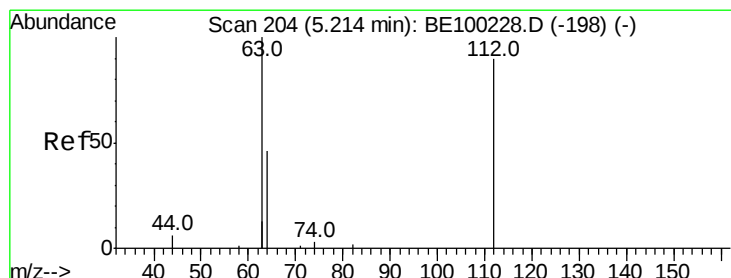
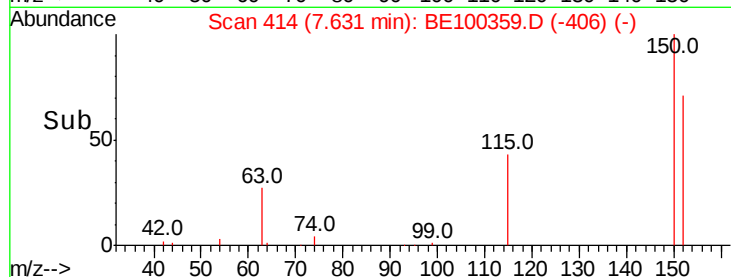
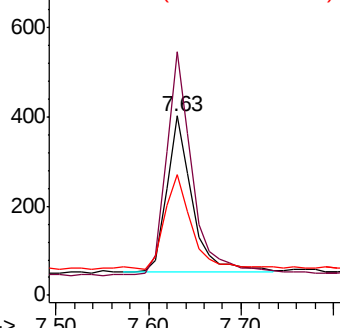
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.63 min Scan# 414
Delta R.T. -0.01 min
Lab File: BE100359.D
Acq: 4 Jul 2019 10:24

Instrument :
BNA_E
ClientSampleId :
EXT-032-SW174-062519

Tot Ion:152 Resp: 672
Ion Ratio Lower Upper
152 100
150 135.6 114.5 171.7
115 67.4 57.1 85.7



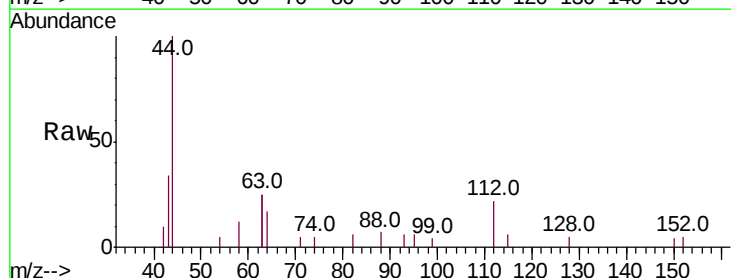
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



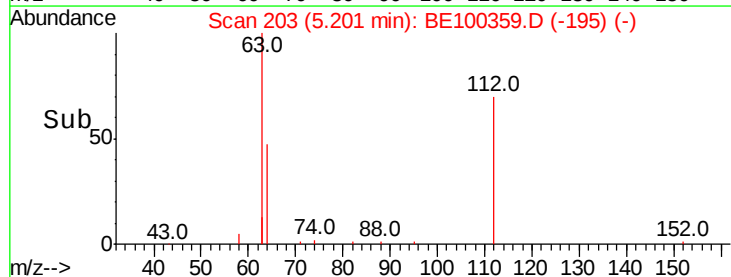
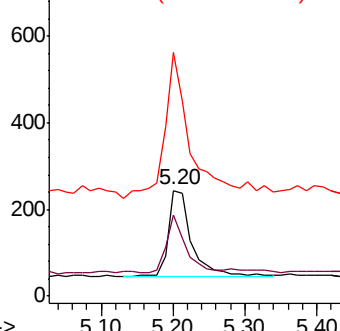
#4

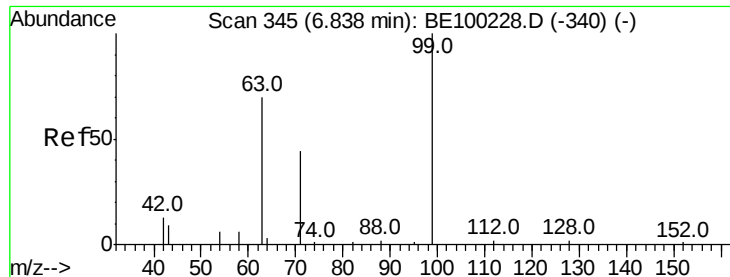
2-Fluorophenol
Concen: 0.261 ng
RT: 5.20 min Scan# 203
Delta R.T. -0.01 min
Lab File: BE100359.D
Acq: 4 Jul 2019 10:24

Tgt Ion:112 Resp: 448
Ion Ratio Lower Upper
112 100
64 55.4 39.4 59.0
63 183.0 104.5 156.7#



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE1
Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.264 ng

RT: 6.82 min Scan# 344

Delta R.T. -0.01 min

Lab File: BE100359.D

Acq: 4 Jul 2019 10:24

Instrument :

BNA_E

ClientSampleId :

EXT-032-SW174-062519

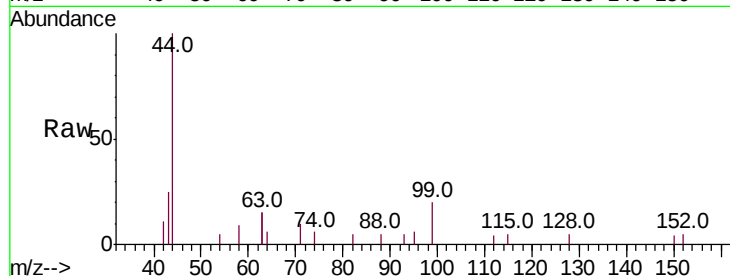
Tot Ion: 99 Resp: 596

Ion Ratio Lower Upper

99 100

42 25.0 11.2 16.8#

71 48.5 37.2 55.8



Abundance Ion 99.00 (98.70 to 99.70): BE1

Ion 42.00 (41.70 to 42.70): BE1

Ion 71.00 (70.70 to 71.70): BE1

6.82

250

200

150

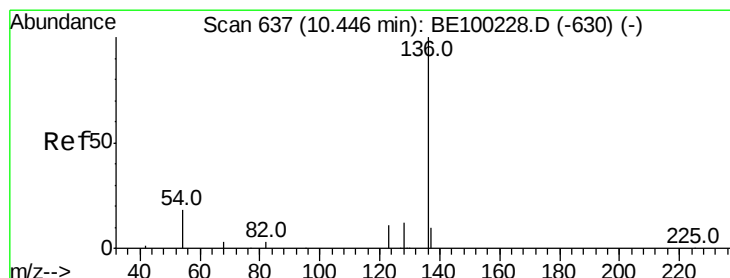
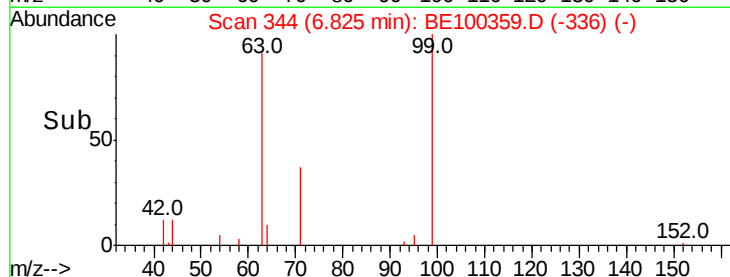
100

50

0

6.70 6.80 6.90 7.00

Time-->



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.43 min Scan# 636

Delta R.T. -0.01 min

Lab File: BE100359.D

Acq: 4 Jul 2019 10:24

Tgt Ion: 136 Resp: 2396

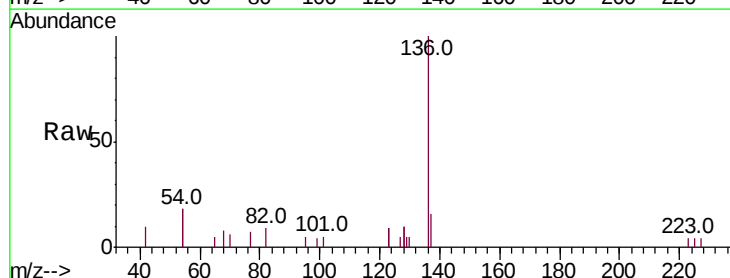
Ion Ratio Lower Upper

136 100

137 15.8 11.8 17.8

54 36.2 27.7 41.5

68 8.4 6.8 10.2



Abundance Ion 136.00 (135.70 to 136.70): BE1

Ion 137.00 (136.70 to 137.70): BE1

Ion 54.00 (53.70 to 54.70): BE1

Ion 68.00 (67.70 to 68.70): BE1

10.43

1500

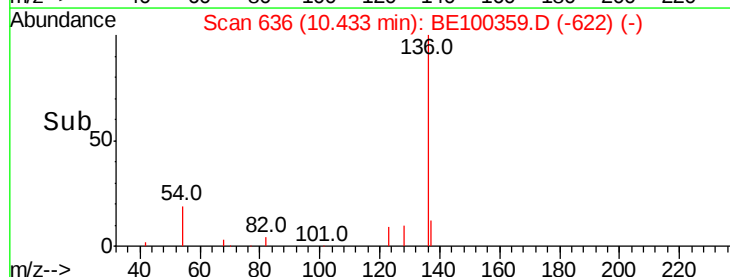
1000

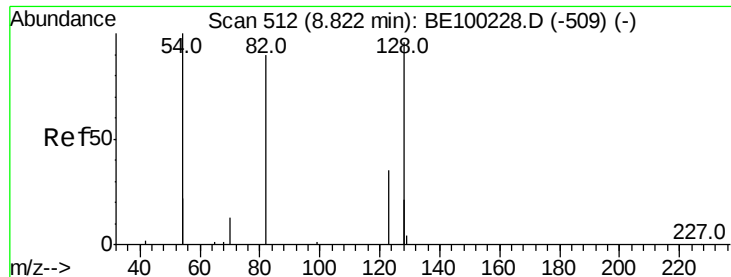
500

0

10.40 10.60

Time-->





#8

Nitrobenzene-d5

Concen: 0.227 ng

RT: 8.81 min Scan# 511

Delta R.T. -0.01 min

Lab File: BE100359.D

Acq: 4 Jul 2019 10:24

Instrument :

BNA_E

ClientSampleId :

EXT-032-SW174-062519

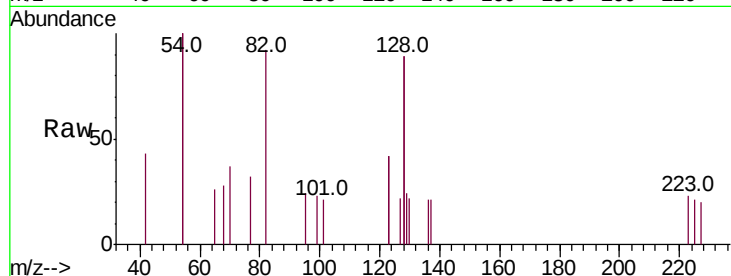
Tot Ion: 82 Resp: 540

Ion Ratio Lower Upper

82 100

128 193.0 140.9 211.3

54 218.0 146.2 219.2

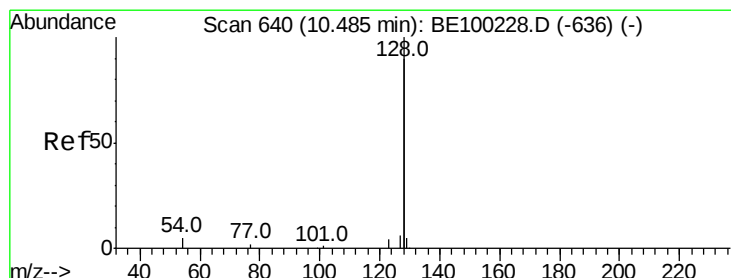
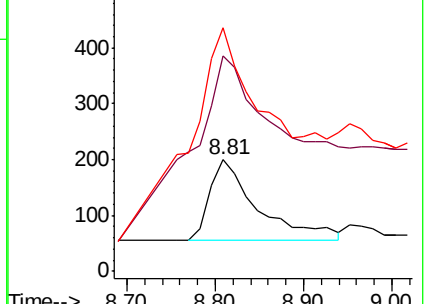
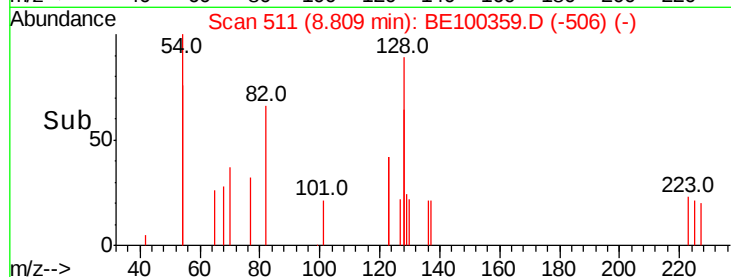


Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): BE1

Ion 54.00 (53.70 to 54.70): BE1

Time-->



#9

Naphthalene

Concen: 0.075 ng

RT: 10.48 min Scan# 640

Delta R.T. 0.00 min

Lab File: BE100359.D

Acq: 4 Jul 2019 10:24

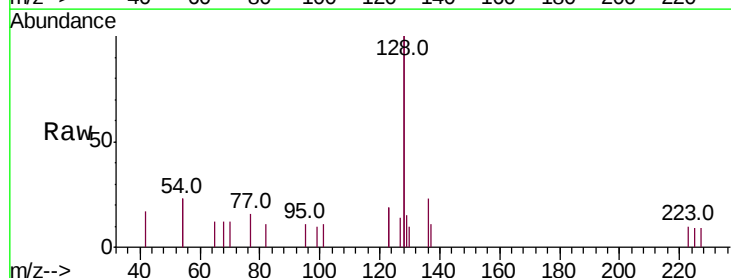
Tgt Ion: 128 Resp: 1995

Ion Ratio Lower Upper

128 100

129 7.6 3.0 4.6#

127 7.0 3.5 5.3#

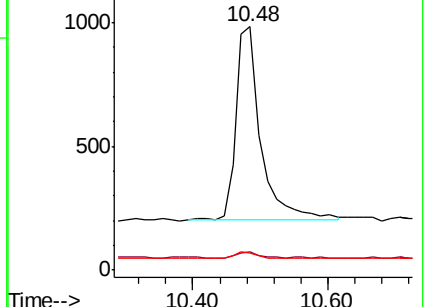
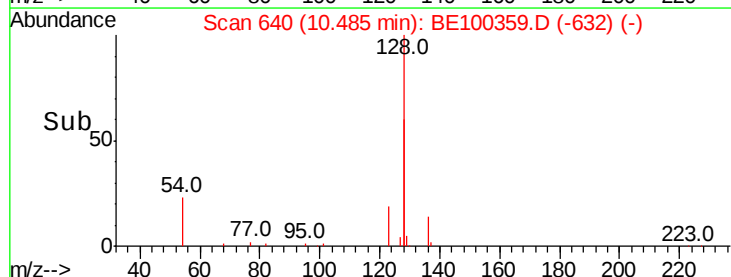


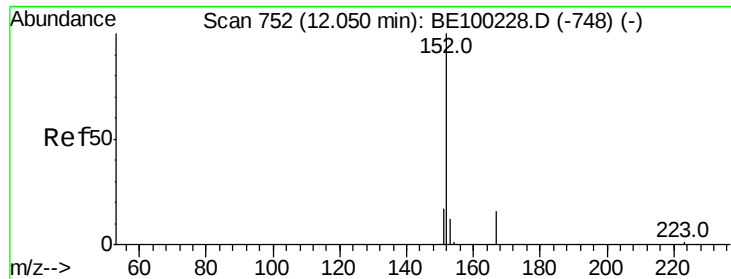
Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

Time-->

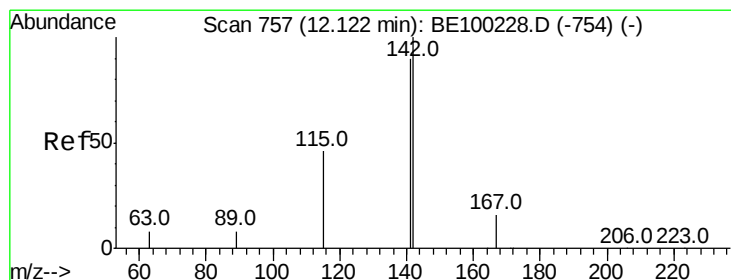
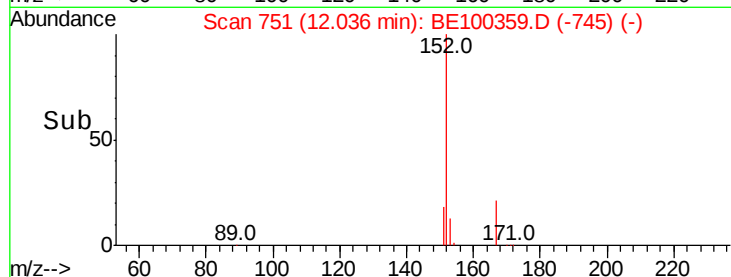
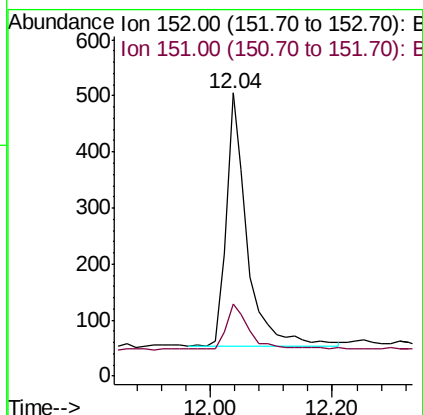
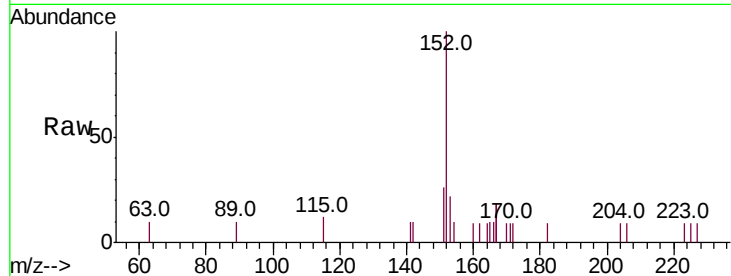




#11
2-Methylnaphthalene-d10
Concen: 0.244 ng
RT: 12.04 min Scan# 751
Delta R.T. -0.01 min
Lab File: BE100359.D
Acq: 4 Jul 2019 10:24

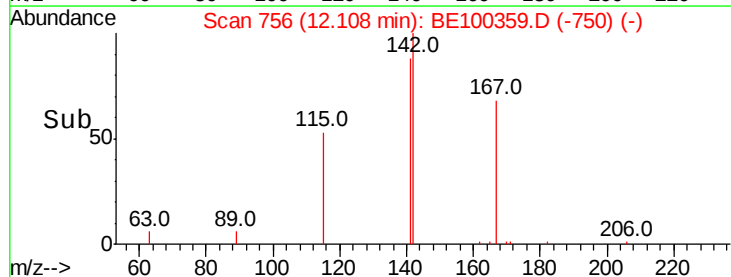
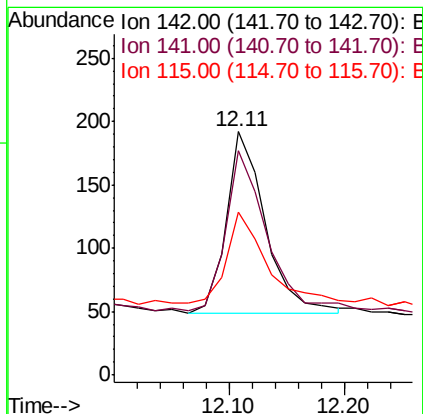
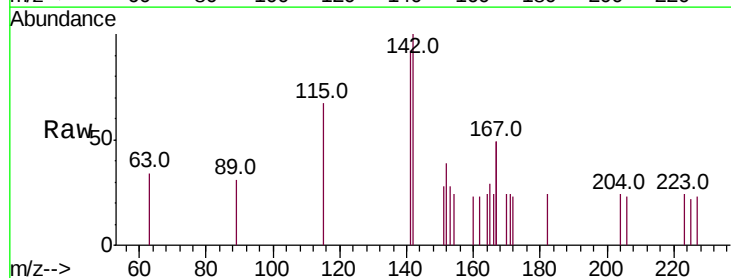
Instrument :
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EXT-032-SW174-062519

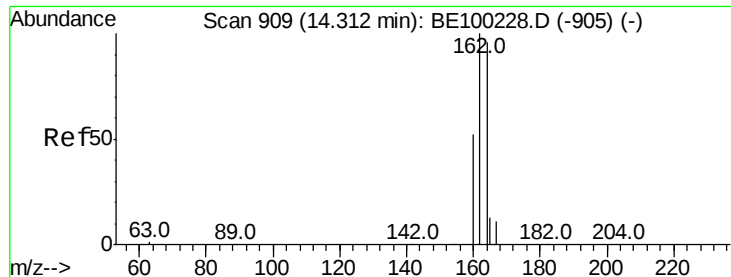
Tot Ion:152 Resp: 1098
Ion Ratio Lower Upper
152 100
151 20.5 15.1 22.7



#12
2-Methylnaphthalene
Concen: 0.072 ng
RT: 12.11 min Scan# 756
Delta R.T. -0.01 min
Lab File: BE100359.D
Acq: 4 Jul 2019 10:24

Tgt Ion:142 Resp: 336
Ion Ratio Lower Upper
142 100
141 92.2 72.4 108.6
115 67.2 40.4 60.6#





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.31 min Scan# 909

Delta R.T. 0.00 min

Lab File: BE100359.D

Acq: 4 Jul 2019 10:24

Instrument :

BNA_E

ClientSampleId :

EXT-032-SW174-062519

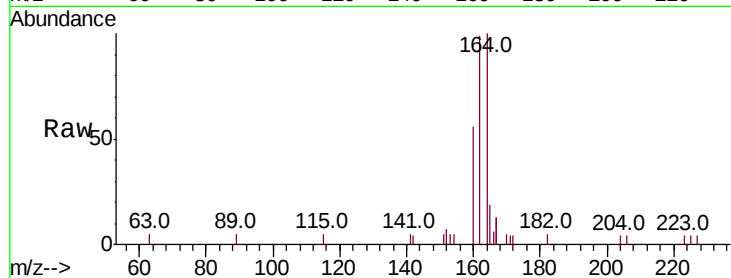
Tot Ion:164 Resp: 1903

Ion Ratio Lower Upper

164 100

162 99.3 83.4 125.0

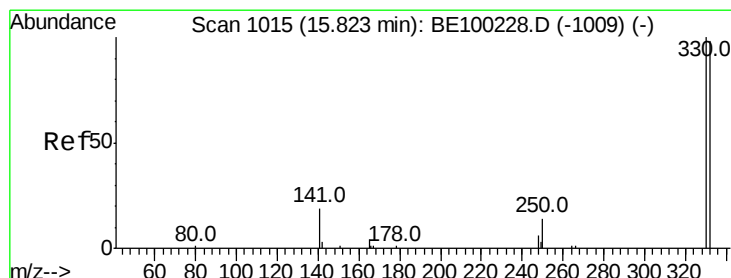
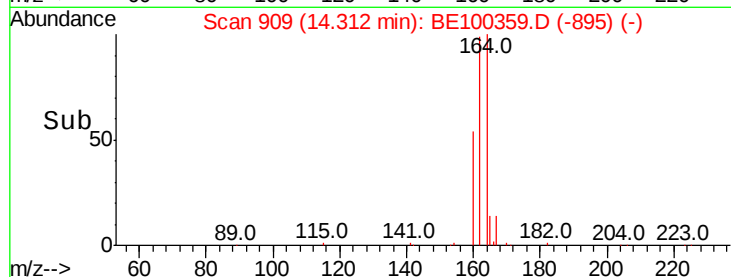
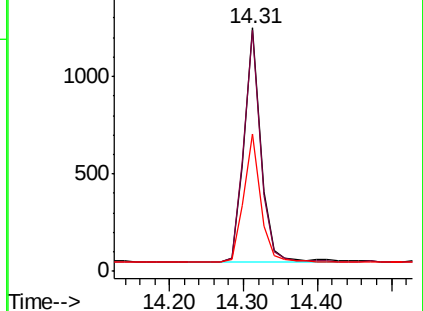
160 56.2 45.0 67.6



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: 0.243 ng

RT: 15.81 min Scan# 1014

Delta R.T. -0.01 min

Lab File: BE100359.D

Acq: 4 Jul 2019 10:24

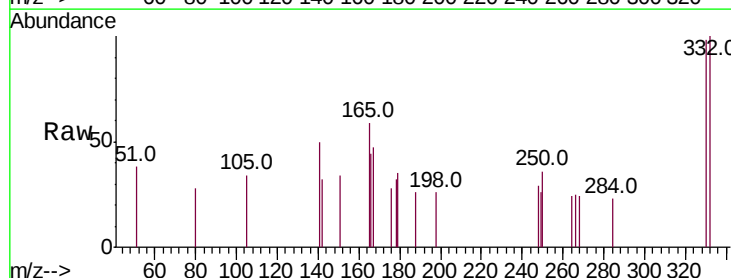
Tgt Ion:330 Resp: 324

Ion Ratio Lower Upper

330 100

332 110.2 77.0 115.4

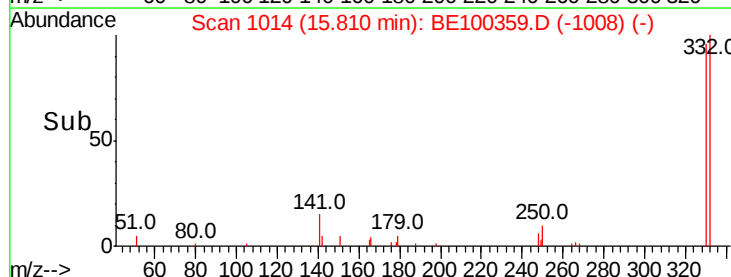
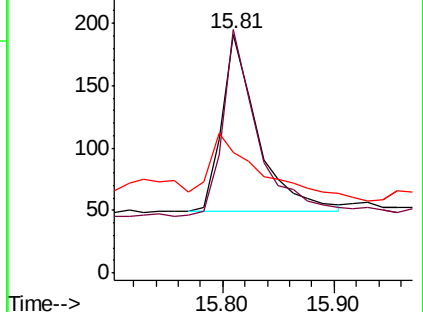
141 53.4 22.0 33.0#

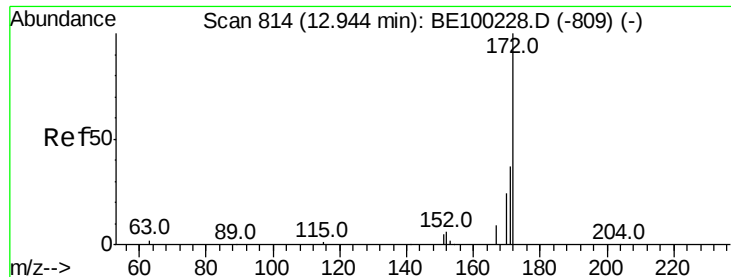


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

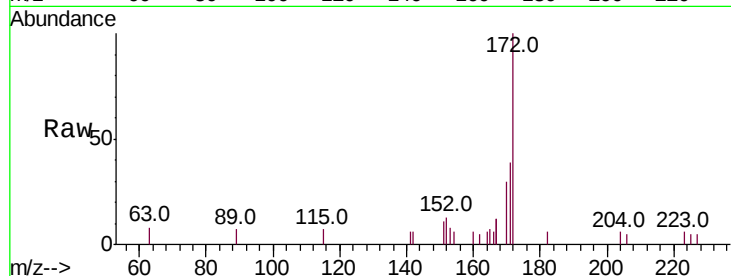




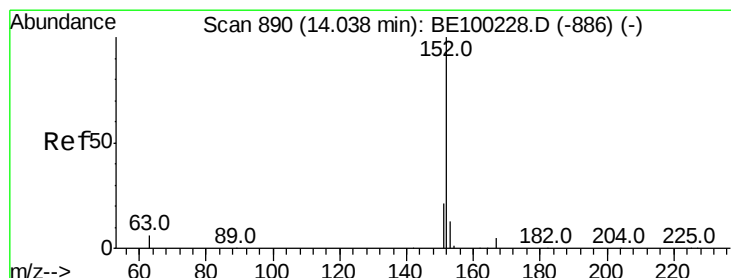
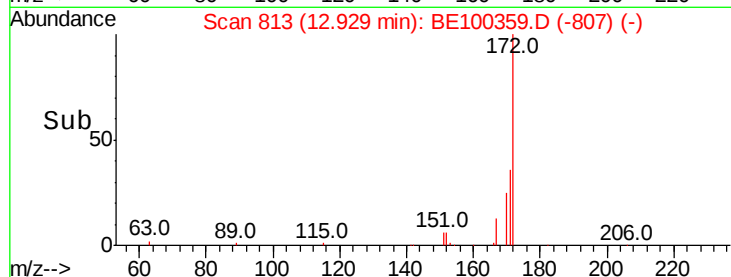
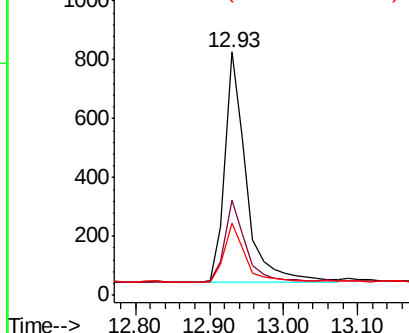
#15
2-Fluorobiphenyl
Concen: 0.214 ng
RT: 12.93 min Scan# 813
Delta R.T. -0.01 min
Lab File: BE100359.D
Acq: 4 Jul 2019 10:24

Instrument :
BNA_E
ClientSampleId :
EXT-032-SW174-062519

Tot Ion:172 Resp: 1590
Ion Ratio Lower Upper
172 100
171 39.1 31.9 47.9
170 29.5 22.2 33.2

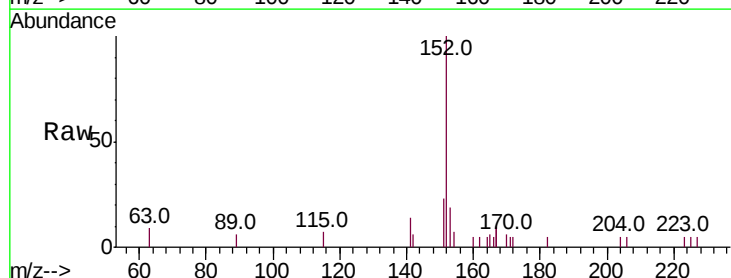


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

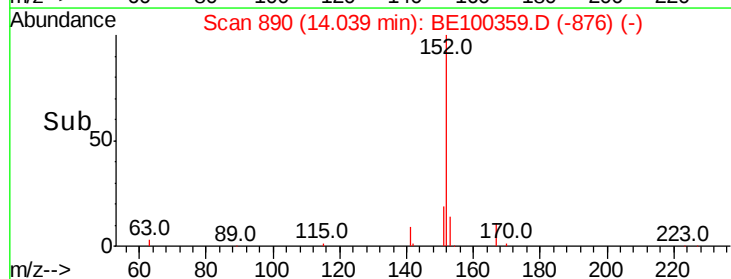
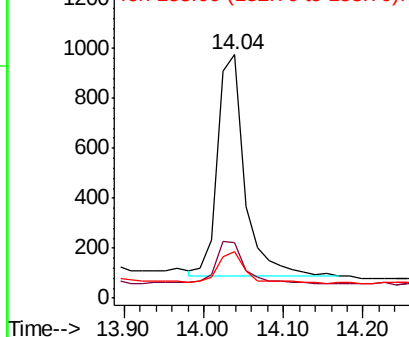


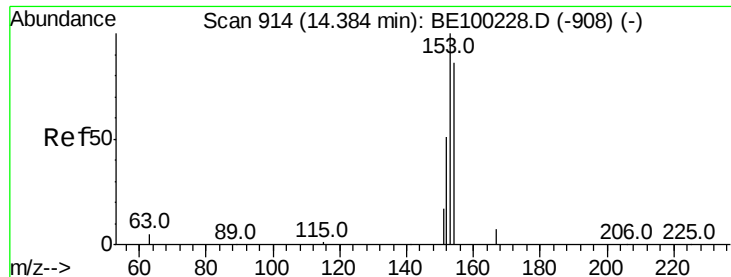
#16
Acenaphthylene
Concen: 0.231 ng
RT: 14.04 min Scan# 890
Delta R.T. 0.00 min
Lab File: BE100359.D
Acq: 4 Jul 2019 10:24

Tgt Ion:152 Resp: 2114
Ion Ratio Lower Upper
152 100
151 21.1 16.6 25.0
153 14.6 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

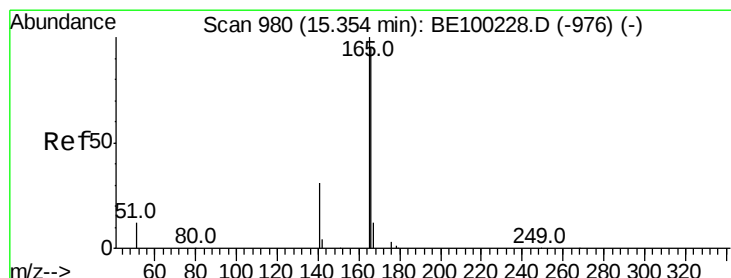
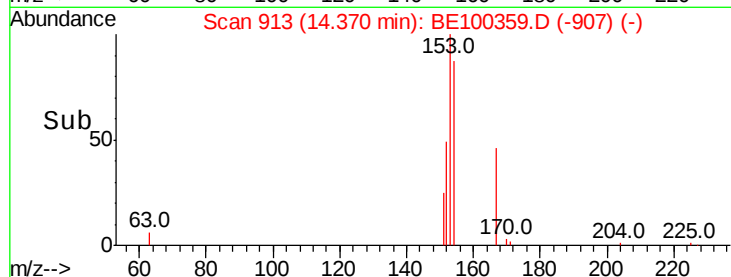
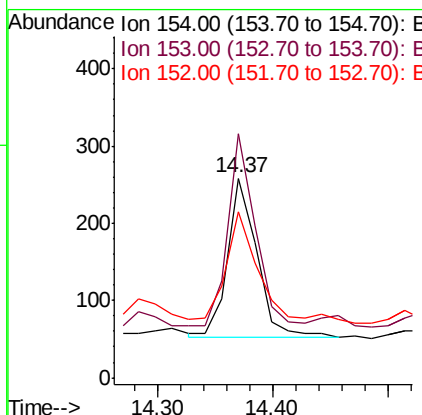
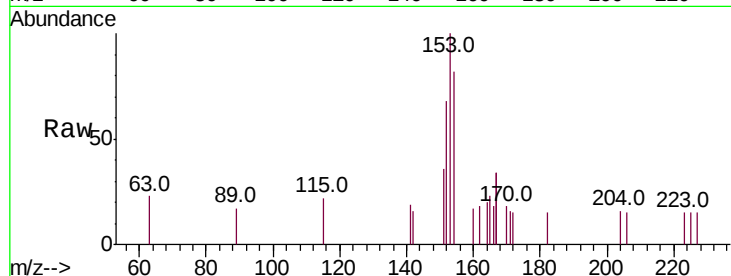




#17
Acenaphthene
Concen: 0.070 ng
RT: 14.37 min Scan# 913
Delta R.T. -0.01 min
Lab File: BE100359.D
Acq: 4 Jul 2019 10:24

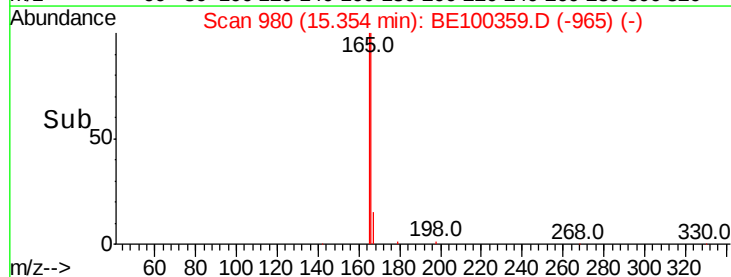
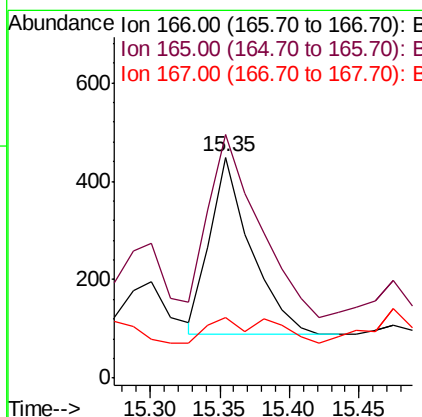
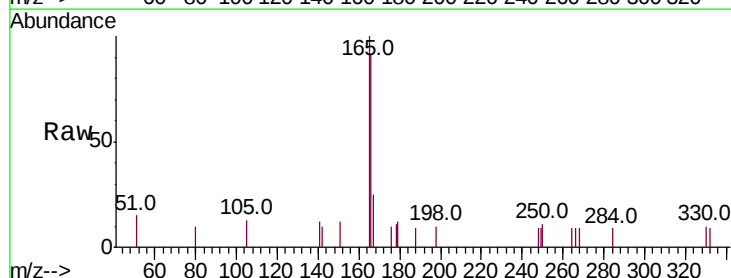
Instrument :
BNA_E
ClientSampleId :
EXT-032-SW174-062519

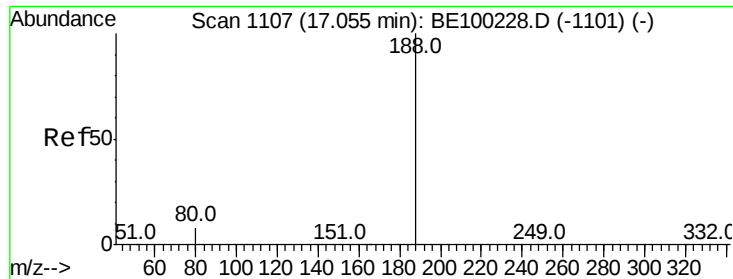
Tot Ion:154 Resp: 362
Ion Ratio Lower Upper
154 100
153 112.4 93.4 140.2
152 79.8 49.4 74.2#



#18
Fluorene
Concen: 0.095 ng
RT: 15.35 min Scan# 980
Delta R.T. -0.00 min
Lab File: BE100359.D
Acq: 4 Jul 2019 10:24

Tgt Ion:166 Resp: 729
Ion Ratio Lower Upper
166 100
165 127.2 81.1 121.7#
167 26.3 10.7 16.1#

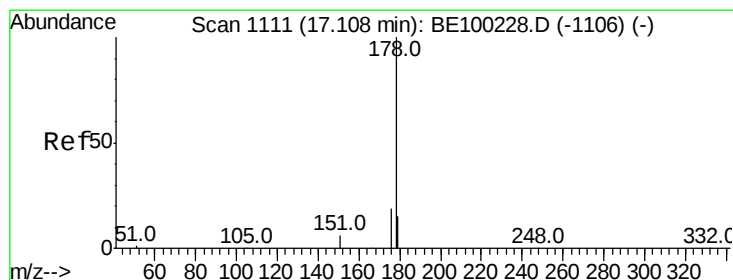
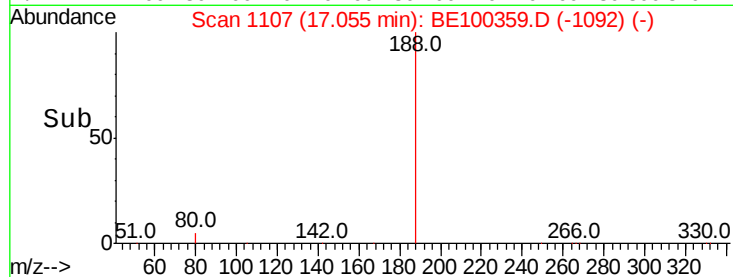
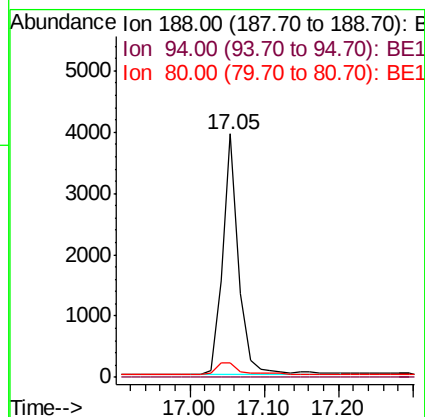
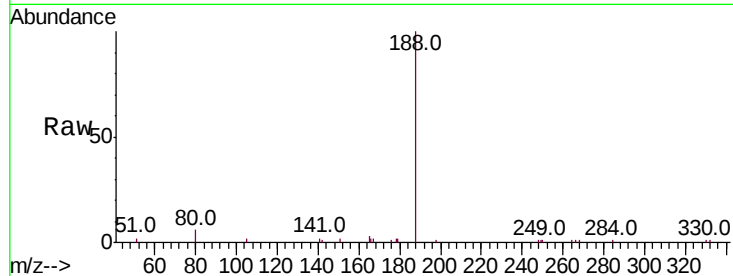




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.05 min Scan# 1107
Delta R.T. -0.00 min
Lab File: BE100359.D
Acq: 4 Jul 2019 10:24

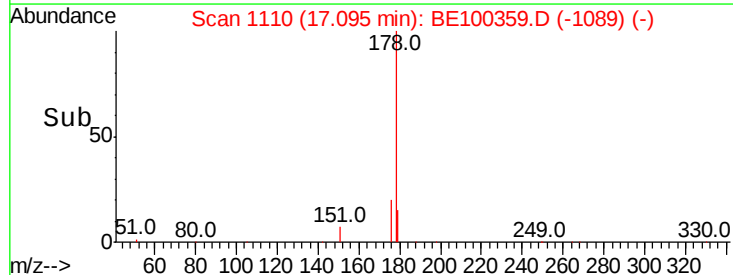
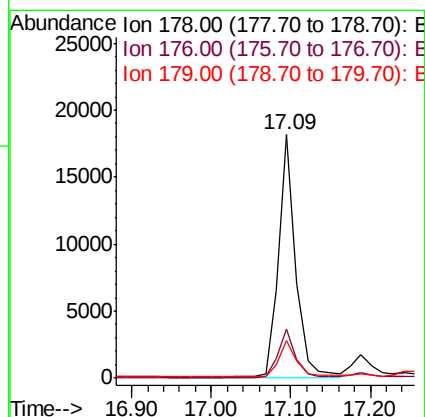
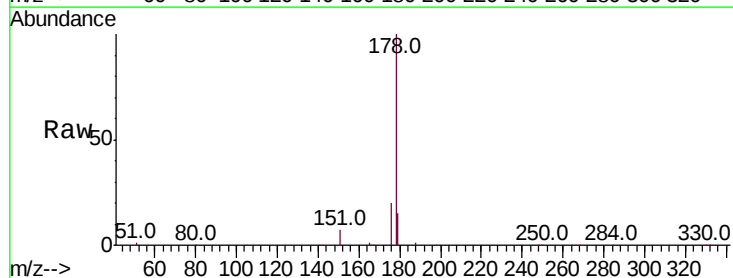
Instrument :
BNA_E
ClientSampleId :
EXT-032-SW174-062519

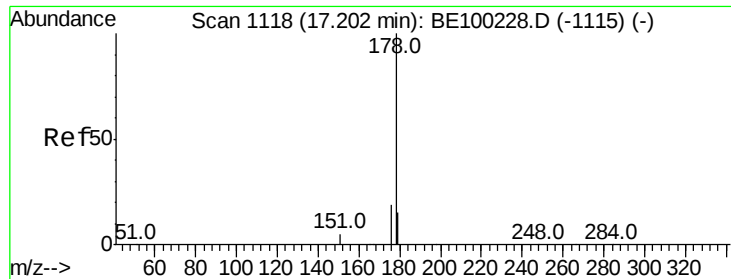
Tot Ion:188 Resp: 5919
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.2 7.6 11.4#



#23
Phenanthrene
Concen: 1.902 ng
RT: 17.09 min Scan# 1110
Delta R.T. -0.01 min
Lab File: BE100359.D
Acq: 4 Jul 2019 10:24

Tgt Ion:178 Resp: 27280
Ion Ratio Lower Upper
178 100
176 19.9 15.9 23.9
179 16.1 12.2 18.2

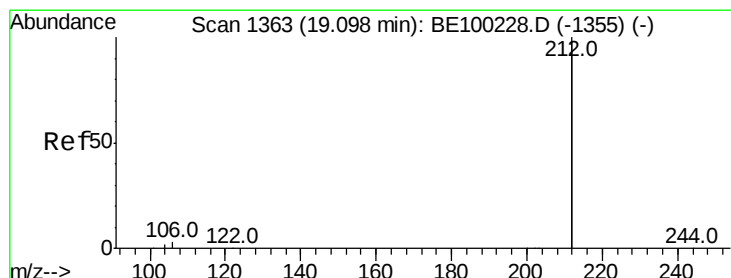
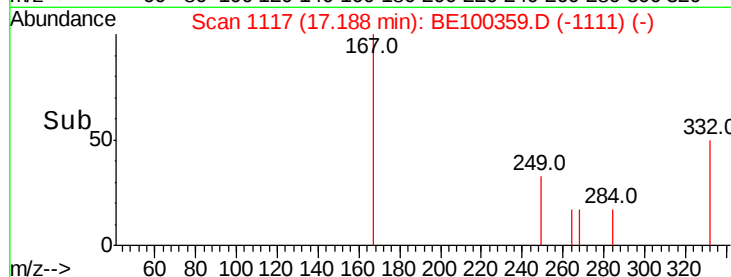
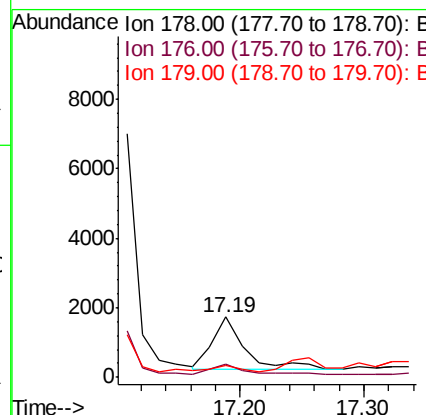
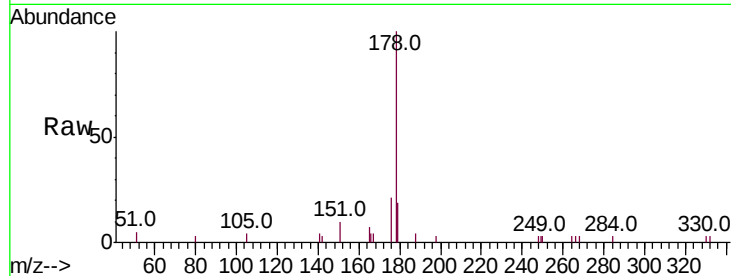




#24
 Anthracene
 Concen: 0.203 ng
 RT: 17.19 min Scan# 1117
 Delta R.T. -0.01 min
 Lab File: BE100359.D
 Acq: 4 Jul 2019 10:24

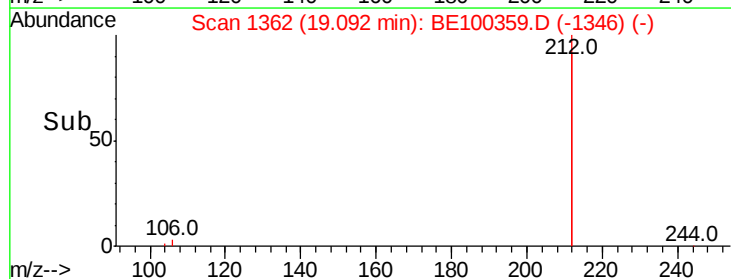
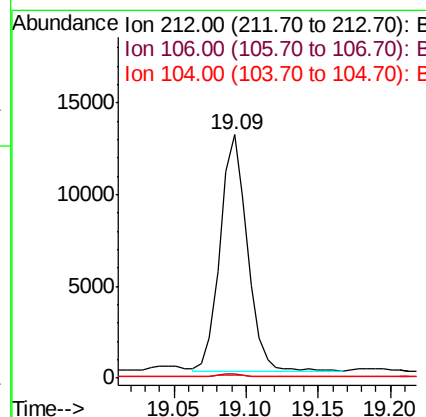
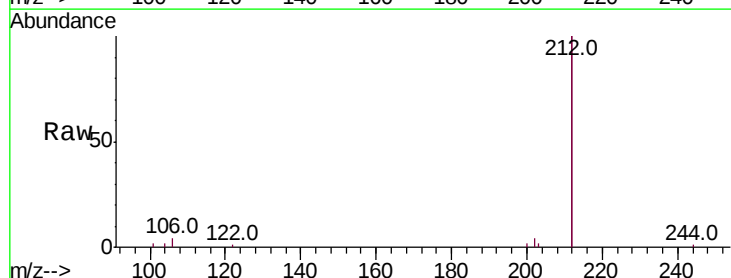
Instrument :
 BNA_E
 ClientSampleId :
 EXT-032-SW174-062519

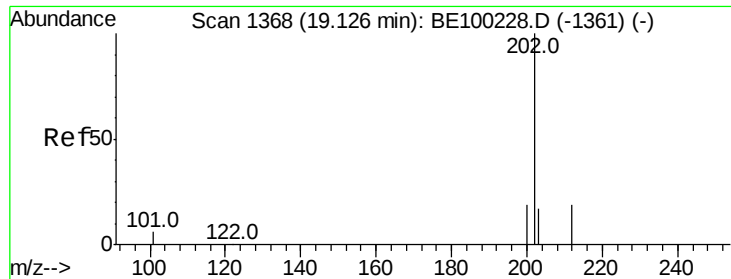
Tot Ion:178 Resp: 2628
 Ion Ratio Lower Upper
 178 100
 176 15.8 15.3 22.9
 179 10.0 12.2 18.2#



#25
 Fluoranthene-d10
 Concen: 0.195 ng
 RT: 19.09 min Scan# 1362
 Delta R.T. -0.01 min
 Lab File: BE100359.D
 Acq: 4 Jul 2019 10:24

Tgt Ion:212 Resp: 16734
 Ion Ratio Lower Upper
 212 100
 106 1.5 1.3 1.9
 104 0.9 0.8 1.2





#26

Fluoranthene

Concen: 2.090 ng

RT: 19.12 min Scan# 1367

Delta R.T. -0.01 min

Lab File: BE100359.D

Acq: 4 Jul 2019 10:24

Instrument :

BNA_E

ClientSampleId :

EXT-032-SW174-062519

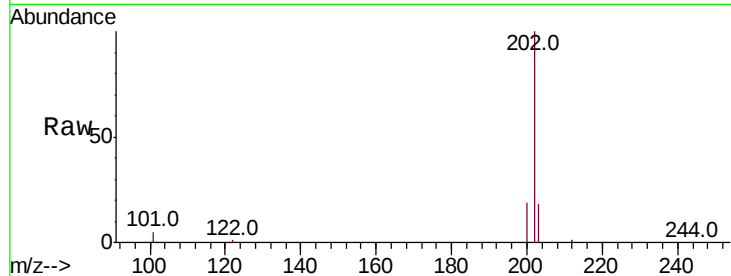
Tot Ion:202 Resp: 47761

Ion Ratio Lower Upper

202 100

101 5.5 4.6 7.0

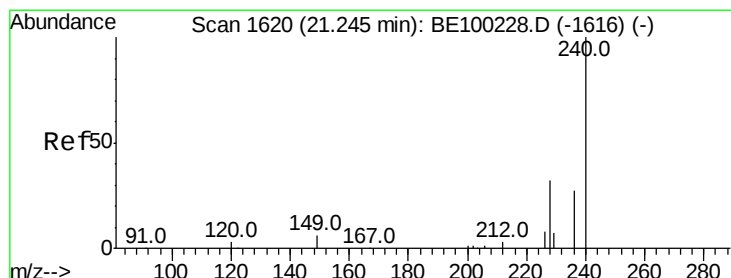
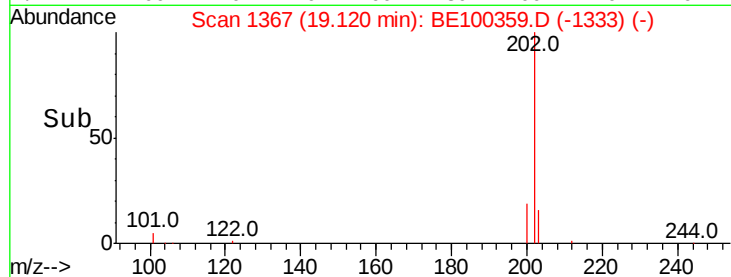
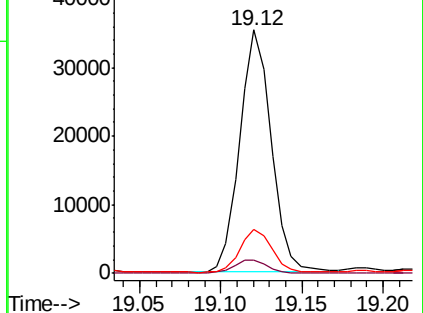
203 17.7 13.7 20.5



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



#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.25 min Scan# 1620

Delta R.T. 0.00 min

Lab File: BE100359.D

Acq: 4 Jul 2019 10:24

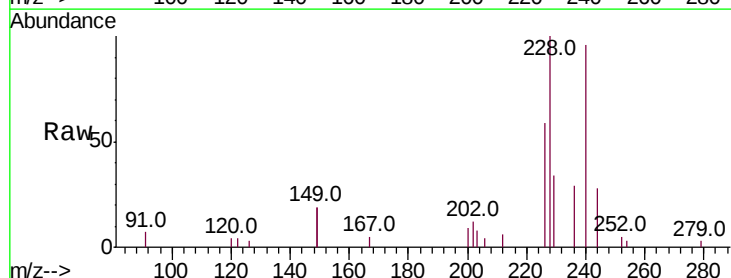
Tgt Ion:240 Resp: 7800

Ion Ratio Lower Upper

240 100

120 4.4 3.3 4.9

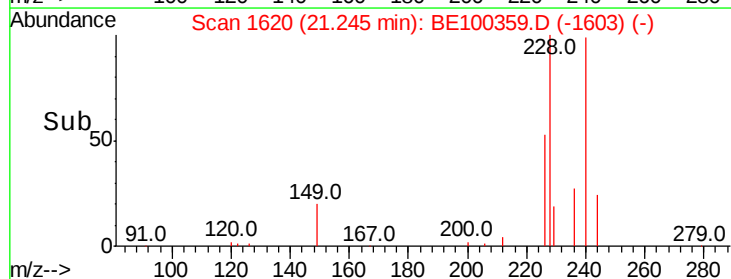
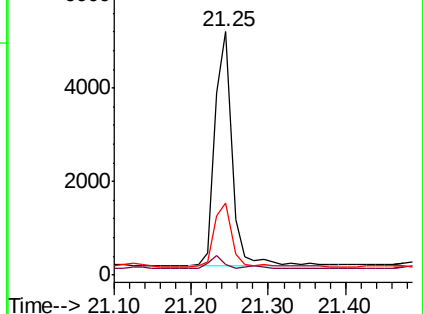
236 29.8 22.6 34.0

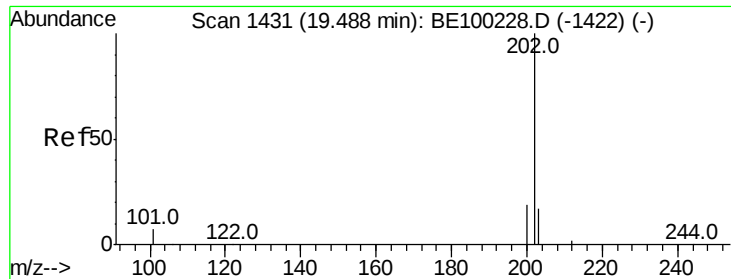


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

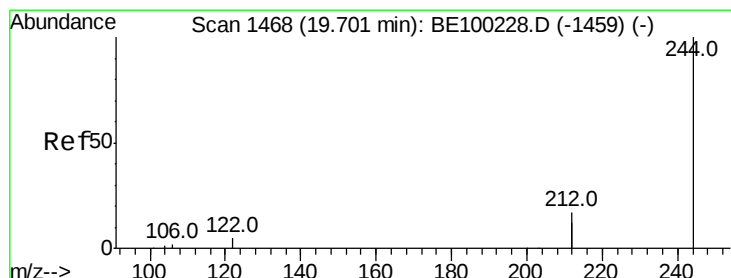
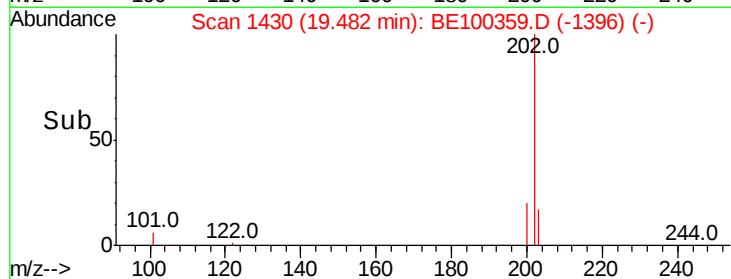
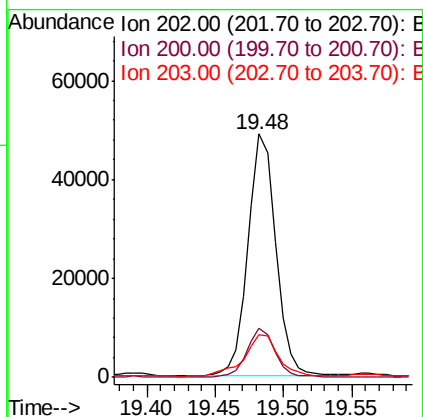
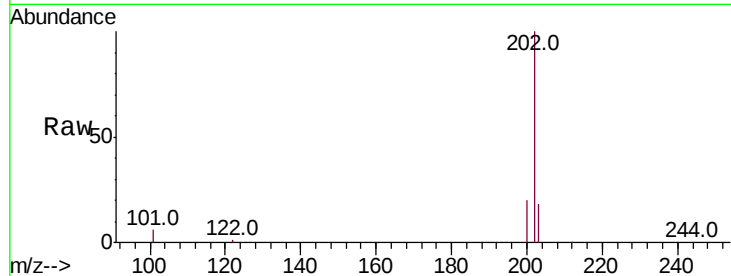




#28
Pvrene
Concen: 3.343 ng
RT: 19.48 min Scan# 1430
Delta R.T. -0.01 min
Lab File: BE100359.D
Acq: 4 Jul 2019 10:24

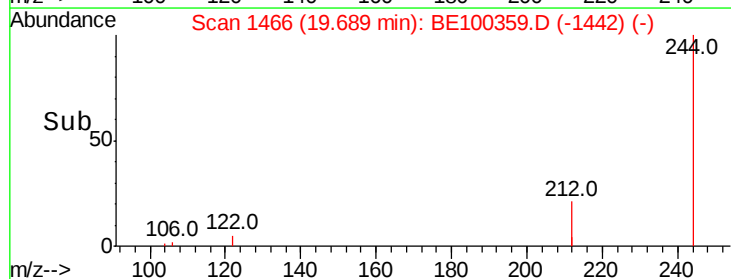
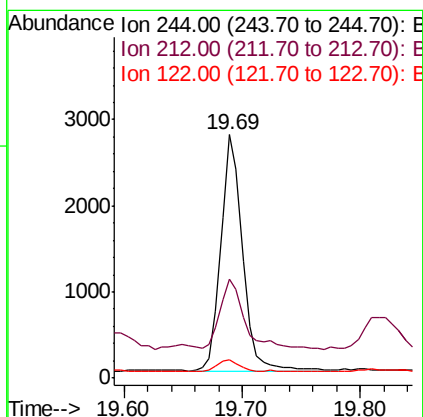
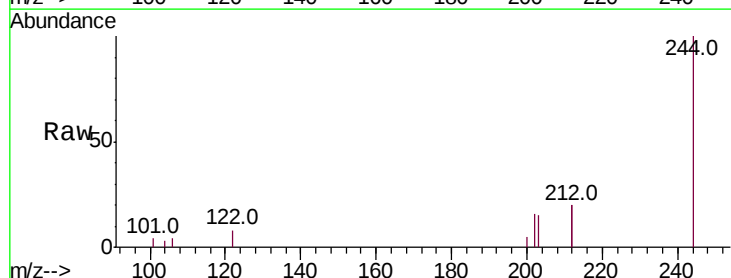
Instrument :
BNA_E
ClientSampleId :
EXT-032-SW174-062519

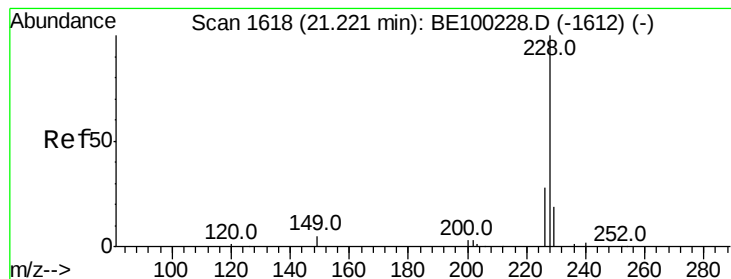
Tot Ion:202 Resp: 69026
Ion Ratio Lower Upper
202 100
200 19.8 15.6 23.4
203 21.2 14.0 21.0#



#29
Terphenyl-d14
Concen: 0.215 ng
RT: 19.69 min Scan# 1466
Delta R.T. -0.01 min
Lab File: BE100359.D
Acq: 4 Jul 2019 10:24

Tgt Ion:244 Resp: 3474
Ion Ratio Lower Upper
244 100
212 40.9 27.3 40.9
122 7.8 4.7 7.1#





#30

Benzo(a)anthracene

Concen: 1.297 ng

RT: 21.22 min Scan# 1618

Delta R.T. 0.00 min

Lab File: BE100359.D

Acq: 4 Jul 2019 10:24

Instrument :

BNA_E

ClientSampleId :

EXT-032-SW174-062519

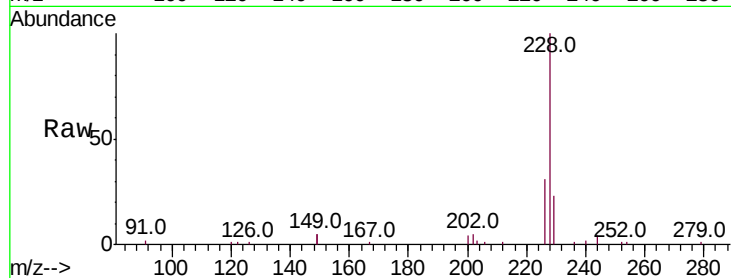
Tot Ion:228 Resp: 33260

Ion Ratio Lower Upper

228 100

226 31.0 23.2 34.8

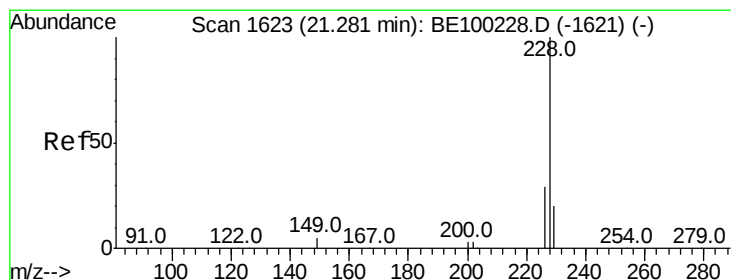
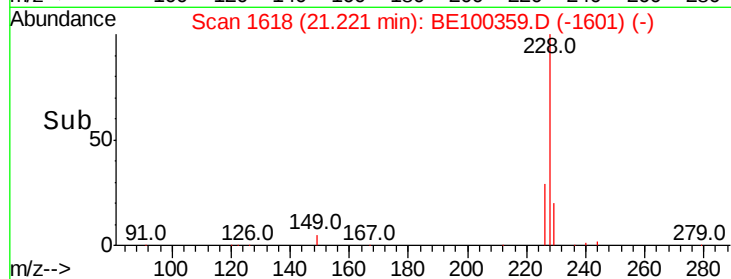
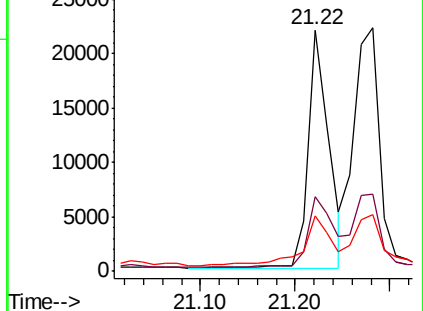
229 22.8 15.7 23.5



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: 1.585 ng

RT: 21.28 min Scan# 1623

Delta R.T. 0.00 min

Lab File: BE100359.D

Acq: 4 Jul 2019 10:24

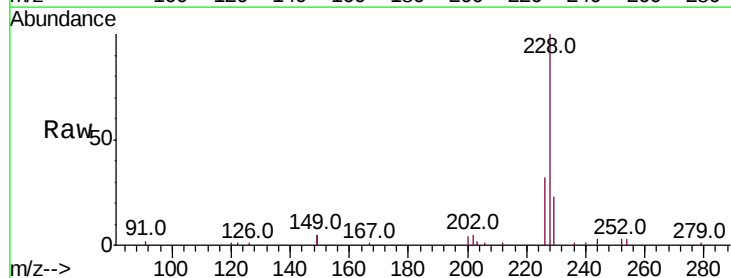
Tgt Ion:228 Resp: 40818

Ion Ratio Lower Upper

228 100

226 31.6 23.9 35.9

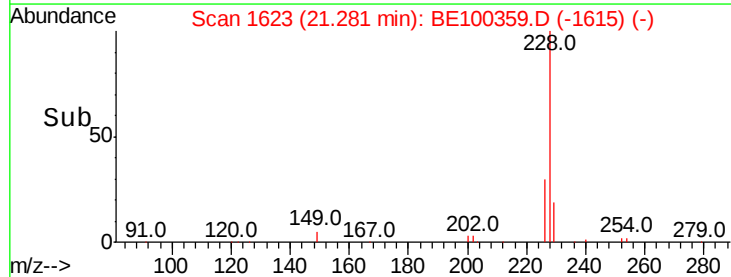
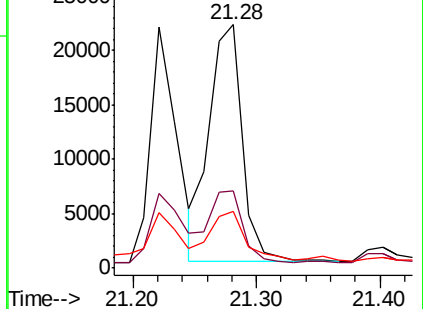
229 23.5 16.5 24.7

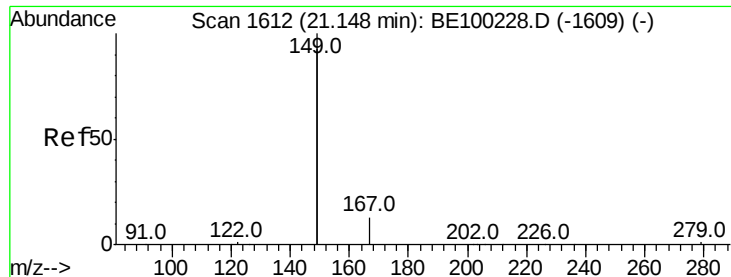


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 1.445 ng

RT: 21.15 min Scan# 1612

Delta R.T. 0.00 min

Lab File: BE100359.D

Acq: 4 Jul 2019 10:24

Instrument :

BNA_E

ClientSampleId :

EXT-032-SW174-062519

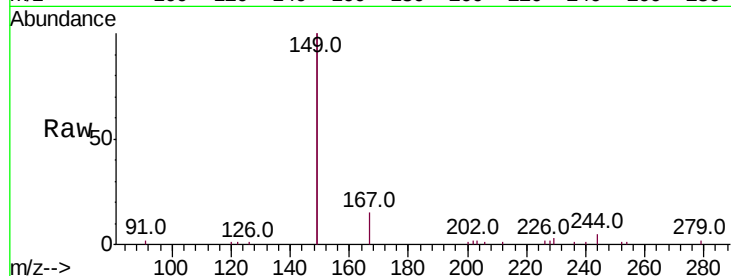
Tot Ion:149 Resp: 54475

Ion Ratio Lower Upper

149 100

167 7.1 5.8 8.8

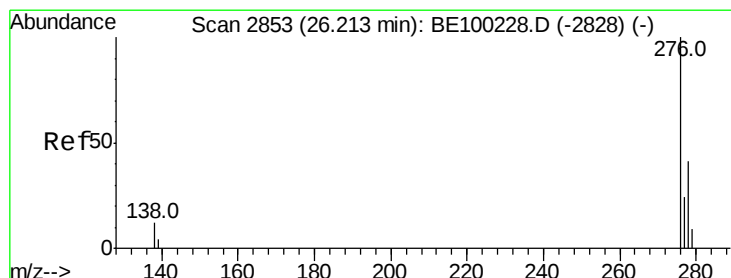
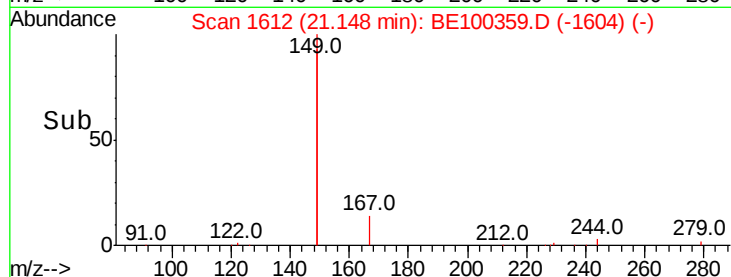
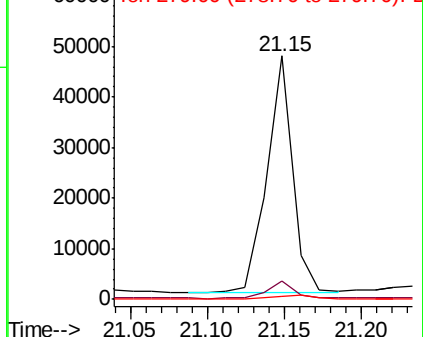
279 1.4 1.1 1.7



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.543 ng

RT: 26.22 min Scan# 2855

Delta R.T. 0.01 min

Lab File: BE100359.D

Acq: 4 Jul 2019 10:24

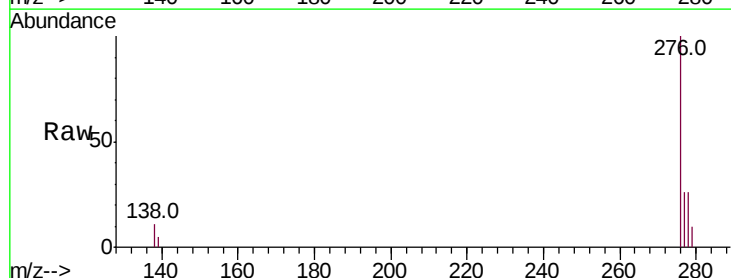
Tgt Ion:276 Resp: 18498

Ion Ratio Lower Upper

276 100

138 8.9 9.4 14.0#

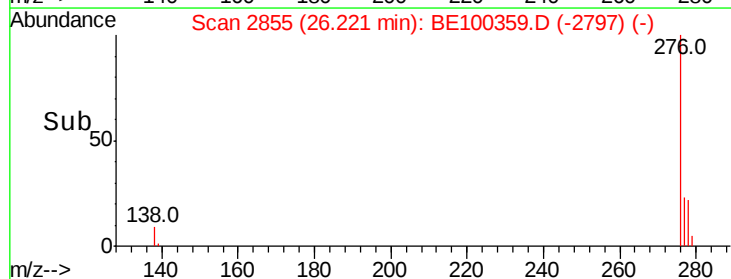
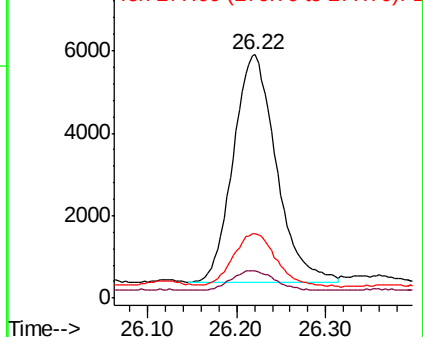
277 22.6 19.2 28.8

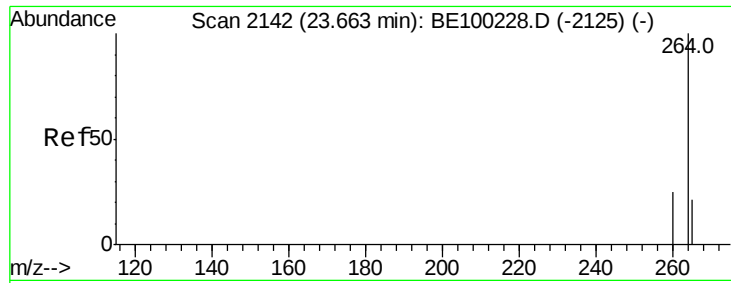


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

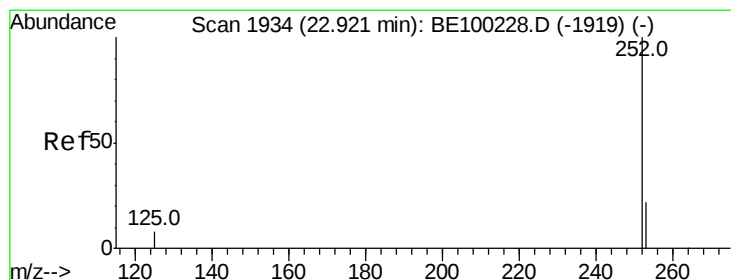
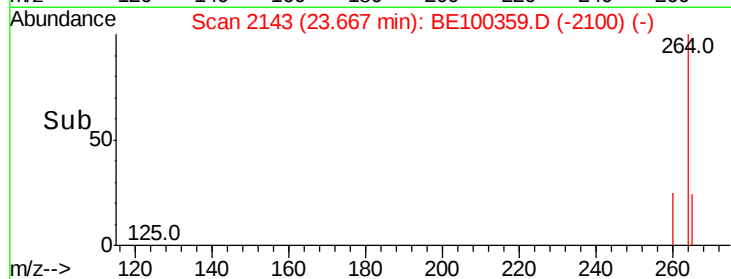
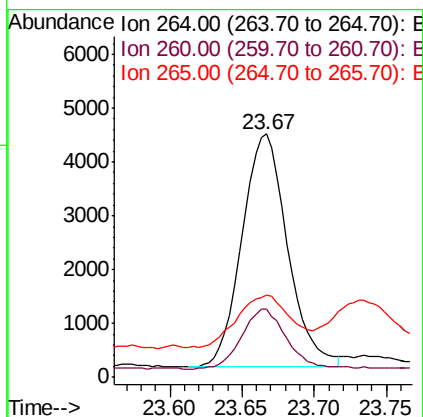
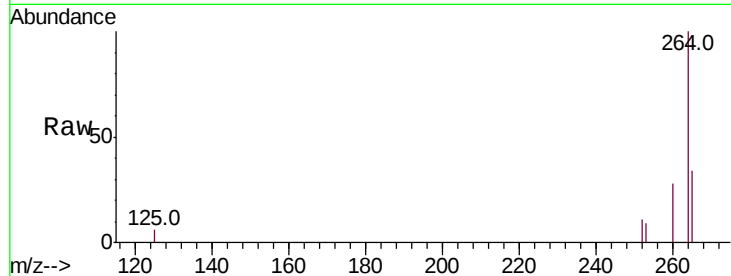




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.67 min Scan# 2143
Delta R.T. 0.00 min
Lab File: BE100359.D
Acq: 4 Jul 2019 10:24

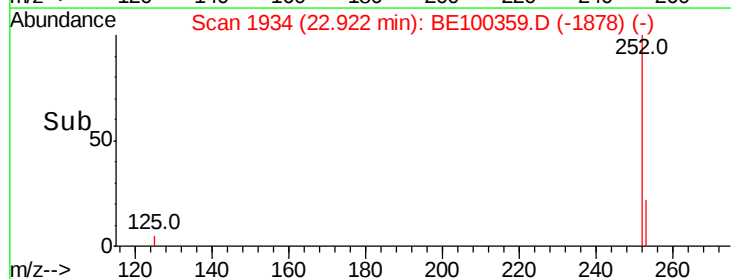
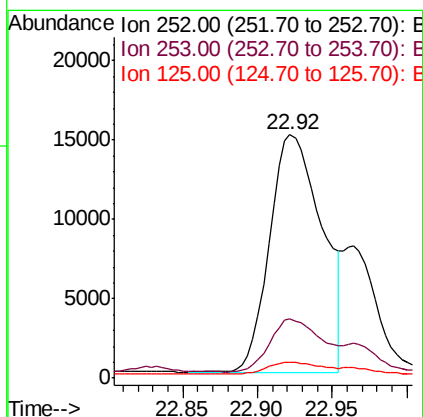
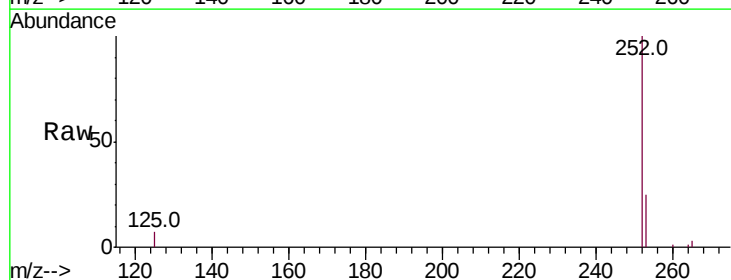
Instrument :
BNA_E
ClientSampleId :
EXT-032-SW174-062519

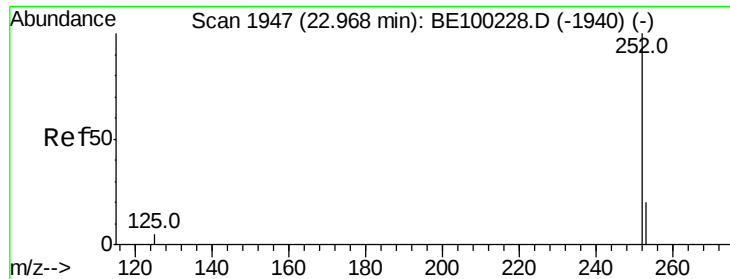
Tot Ion:264 Resp: 9303
Ion Ratio Lower Upper
264 100
260 27.8 20.8 31.2
265 33.7 21.8 32.6#



#35
Benzo(b)fluoranthene
Concen: 1.446 ng
RT: 22.92 min Scan# 1934
Delta R.T. 0.00 min
Lab File: BE100359.D
Acq: 4 Jul 2019 10:24

Tgt Ion:252 Resp: 36471
Ion Ratio Lower Upper
252 100
253 24.6 19.2 28.8
125 6.5 7.4 11.0#

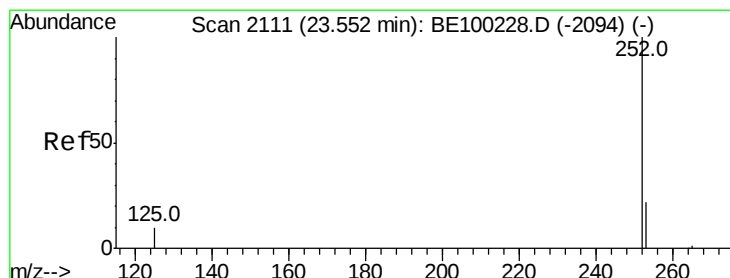
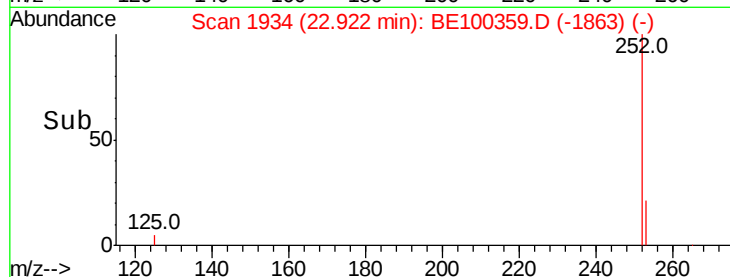
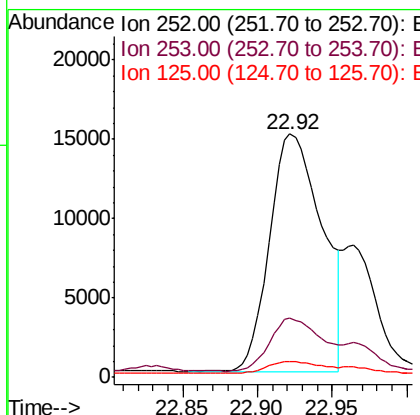
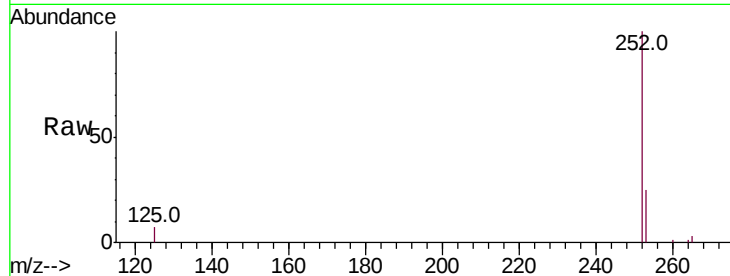




#36
Benzo(k)fluoranthene
Concen: 1.295 ng
RT: 22.92 min Scan# 1934
Delta R.T. -0.05 min
Lab File: BE100359.D
Acq: 4 Jul 2019 10:24

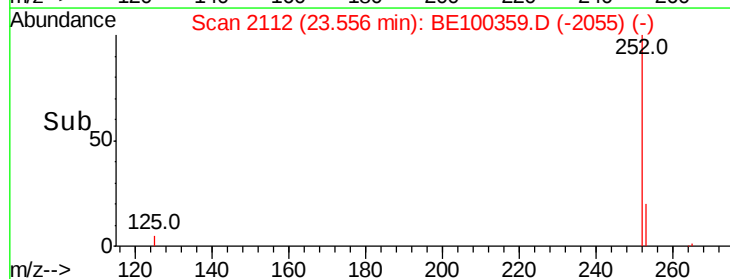
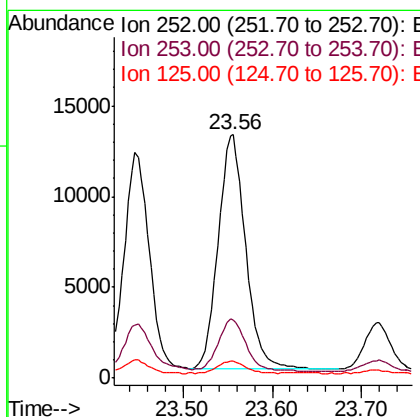
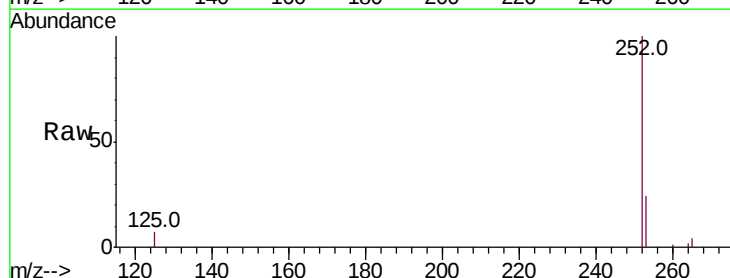
Instrument :
BNA_E
ClientSampleId :
EXT-032-SW174-062519

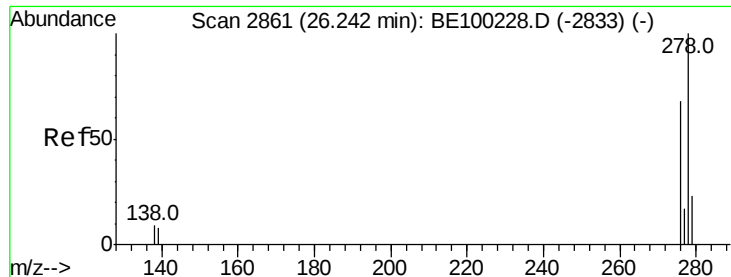
Tot Ion:252 Resp: 36471
Ion Ratio Lower Upper
252 100
253 24.6 17.9 26.9
125 6.5 5.0 7.4



#37
Benzo(a)pyrene
Concen: 1.108 ng
RT: 23.56 min Scan# 2112
Delta R.T. 0.00 min
Lab File: BE100359.D
Acq: 4 Jul 2019 10:24

Tgt Ion:252 Resp: 28015
Ion Ratio Lower Upper
252 100
253 24.1 19.6 29.4
125 7.1 9.0 13.6#





#38

Dibenzo(a,h)anthracene

Concen: 0.187 ng

RT: 26.24 min Scan# 2859

Delta R.T. -0.01 min

Lab File: BE100359.D

Acq: 4 Jul 2019 10:24

Instrument :

BNA_E

ClientSampleId :

EXT-032-SW174-062519

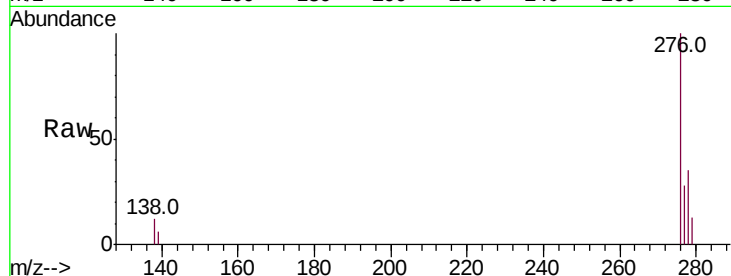
Tot Ion:278 Resp: 4926

Ion Ratio Lower Upper

278 100

139 16.9 8.2 12.2#

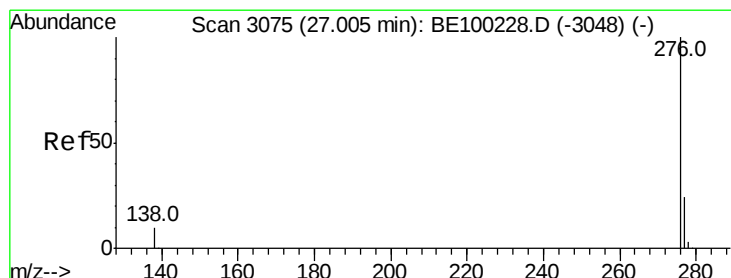
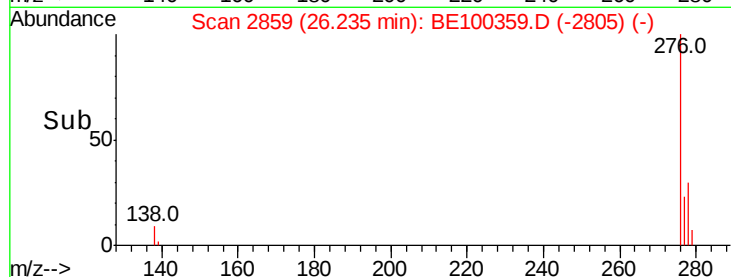
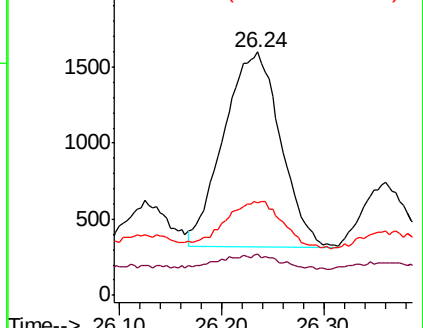
279 38.3 20.3 30.5#



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: 0.816 ng

RT: 27.01 min Scan# 3076

Delta R.T. 0.00 min

Lab File: BE100359.D

Acq: 4 Jul 2019 10:24

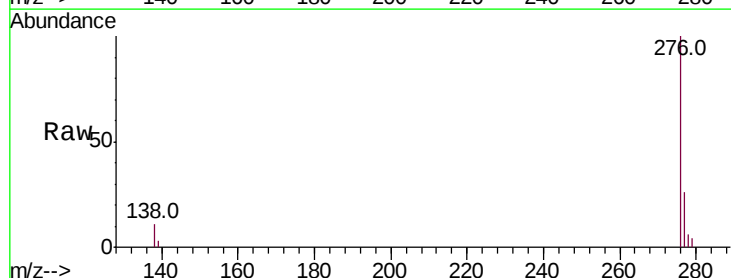
Tgt Ion:276 Resp: 22128

Ion Ratio Lower Upper

276 100

277 26.4 20.2 30.2

138 11.2 9.0 13.6



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

