

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE062719\
 Data File : BE100215.D
 Acq On : 27 Jun 2019 21:27
 Operator : JU/SJ
 Sample : K3428-12
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Jun 28 05:38:00 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 25 15:40:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.64	152	1030	0.40	ng	-0.02
7) Naphthalene-d8	10.44	136	3707	0.40	ng	-0.03
13) Acenaphthene-d10	14.31	164	3064	0.40	ng	-0.03
19) Phenanthrene-d10	17.05	188	8306	0.40	ng	-0.04
27) Chrysene-d12	21.25	240	12048	0.40	ng	-0.04
34) Perylene-d12	23.67	264	15171	0.40	ng	-0.06

System Monitoring Compounds						
4) 2-Fluorophenol	5.22	112	883	0.39	ng	-0.01
5) Phenol-d6	6.82	99	1271	0.40	ng	-0.05
8) Nitrobenzene-d5	8.82	82	1239	0.34	ng	-0.03
11) 2-Methylnaphthalene-d10	12.04	152	2606	0.37	ng	-0.04
14) 2,4,6-Tribromophenol	15.81	330	651	0.37	ng	-0.04
15) 2-Fluorobiphenyl	12.94	172	3231	0.26	ng	-0.03
25) Fluoranthene-d10	19.10	212	43692	0.36	ng	-0.03
29) Terphenyl-d14	19.70	244	6055	0.26	ng	-0.04

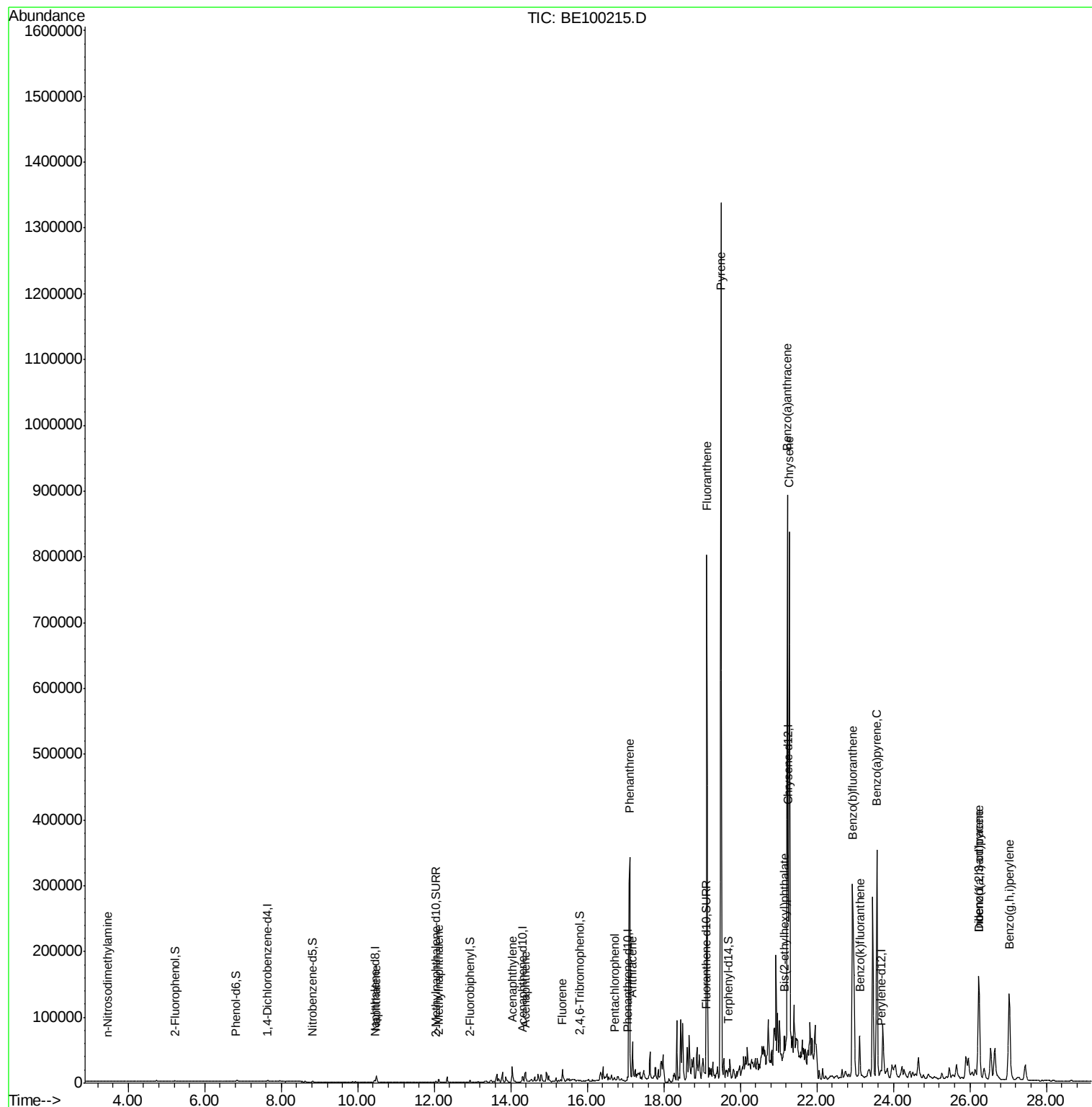
Target Compounds				Qvalue		
3) n-Nitrosodimethylamine	3.47	42	73	0.122	ng	# 1
9) Naphthalene	10.48	128	17279	0.427	ng	# 97
12) 2-Methylnaphthalene	12.12	142	3518	0.540	ng	95
16) Acenaphthylene	14.04	152	27182	1.819	ng	98
17) Acenaphthene	14.39	154	8556	1.022	ng	98
18) Fluorene	15.35	166	14661	1.211	ng	# 91
22) Pentachlorophenol	16.72	266	20	0.282	ng	83
23) Phenanthrene	17.11	178	403925	20.530	ng	98
24) Anthracene	17.19	178	57175	3.441	ng	97
26) Fluoranthene	19.13	202	729296	22.785	ng	98
28) Pvrene	19.49	202	1301867	42.195	ng	# 93
30) Benzo(a)anthracene	21.23	228	775758	21.840	ng	97
31) Chrysene	21.28	228	774417	18.588	ng	96
32) Bis(2-ethylhexyl)phthalate	21.16	149	28581	0.700	ng	# 96
33) Indeno(1,2,3-cd)pyrene	26.24	276	277565	4.680	ng	# 95
35) Benzo(b)fluoranthene	22.93	252	764658	18.740	ng	# 97
36) Benzo(k)fluoranthene	23.12	252	85693	1.755	ng	95
37) Benzo(a)pyrene	23.57	252	566473	13.398	ng	# 94
38) Dibenzo(a,h)anthracene	26.24	278	100003	2.211	ng	# 93
39) Benzo(g,h,i)perylene	27.03	276	338999	7.179	ng	# 97

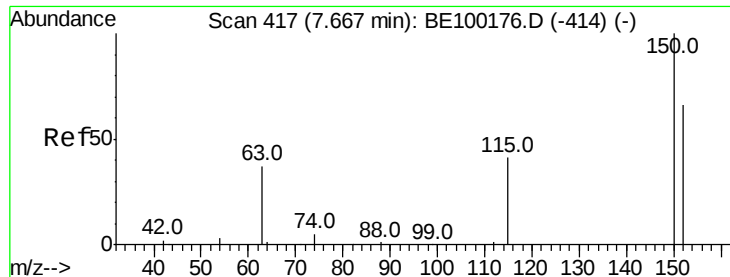
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.64 min Scan# 415

Delta R.T. -0.02 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

Instrument :

BNA_E

ClientSampleId :

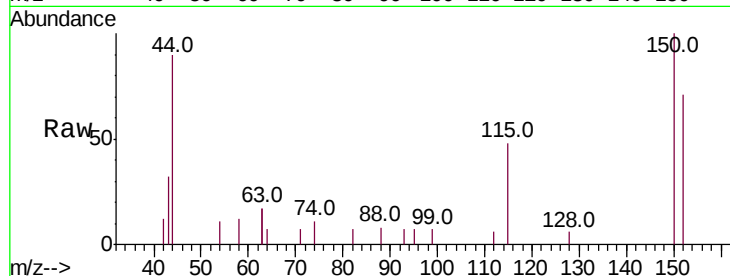
Tot Ion:152 Resp: 1030

Ion Ratio Lower Upper

152 100

150 141.8 113.4 170.2

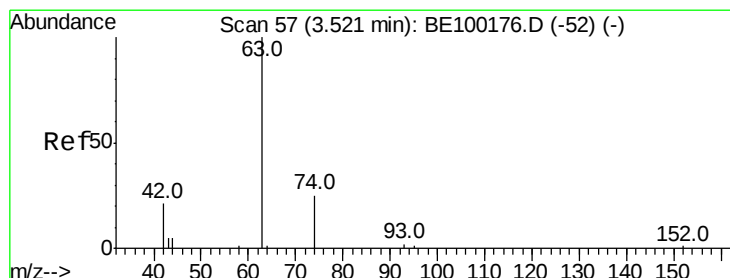
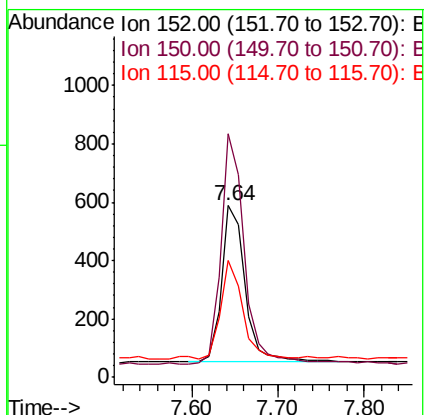
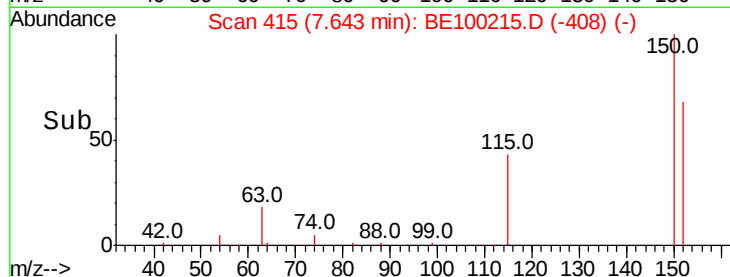
115 68.2 55.8 83.6



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



#3

n-Nitrosodimethylamine

Concen: 0.122 ng

RT: 3.47 min Scan# 53

Delta R.T. -0.05 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

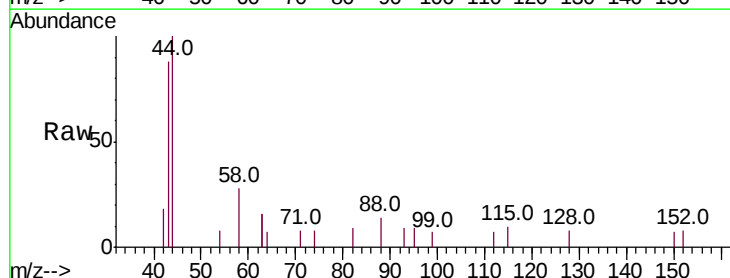
Tgt Ion: 42 Resp: 73

Ion Ratio Lower Upper

42 100

74 1.4 193.2 289.8#

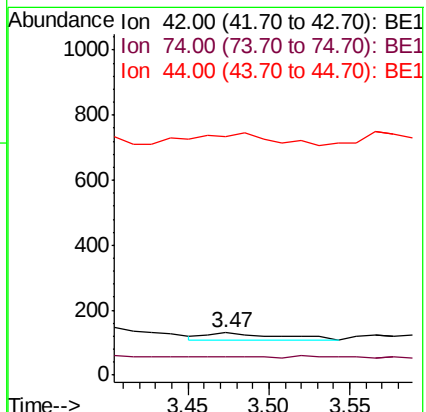
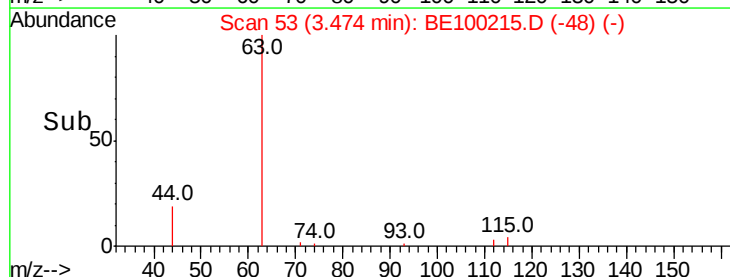
44 184.9 114.5 171.7#

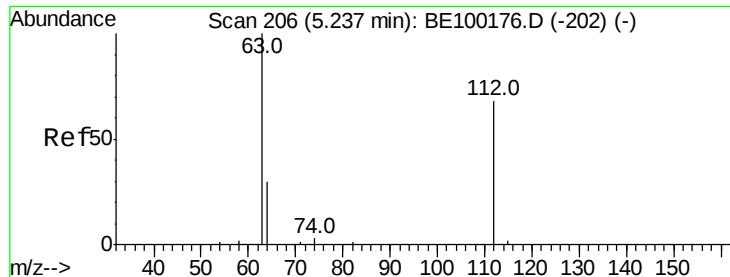


Abundance Ion 42.00 (41.70 to 42.70): BE1

Ion 74.00 (73.70 to 74.70): BE1

Ion 44.00 (43.70 to 44.70): BE1





#4

2-Fluorophenol

Concen: 0.386 ng

RT: 5.22 min Scan# 205

Delta R.T. -0.01 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

Instrument :

BNA_E

ClientSampled :

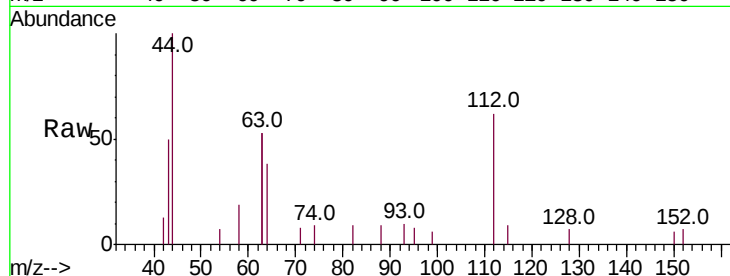
Tot Ion: 112 Resp: 883

Ion Ratio Lower Upper

112 100

64 56.4 40.7 61.1

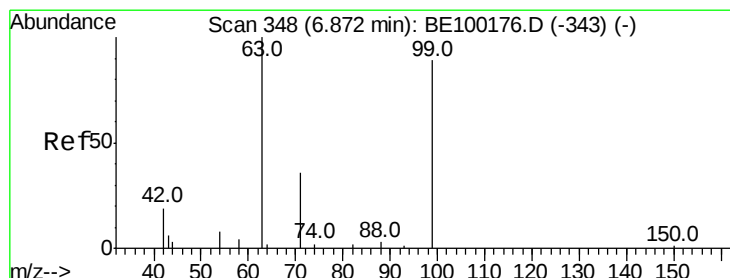
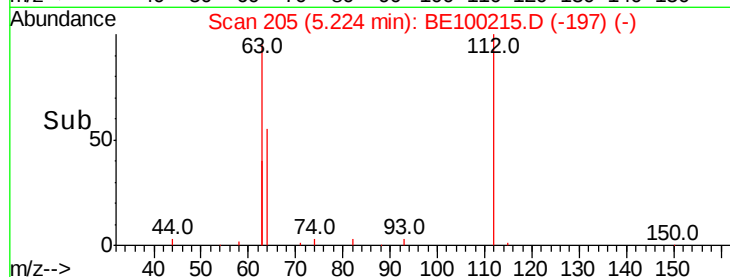
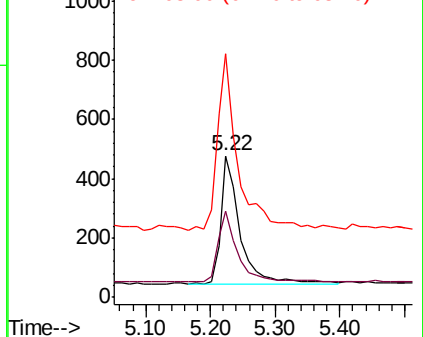
63 151.2 93.2 139.8#



Abundance Ion 112.00 (111.70 to 112.70): BE1

Ion 64.00 (63.70 to 64.70): BE1

Ion 63.00 (62.70 to 63.70): BE1



#5

Phenol-d6

Concen: 0.404 ng

RT: 6.82 min Scan# 344

Delta R.T. -0.05 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

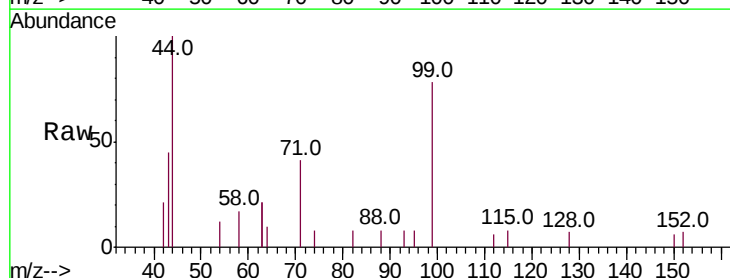
Tgt Ion: 99 Resp: 1271

Ion Ratio Lower Upper

99 100

42 22.0 10.4 15.6#

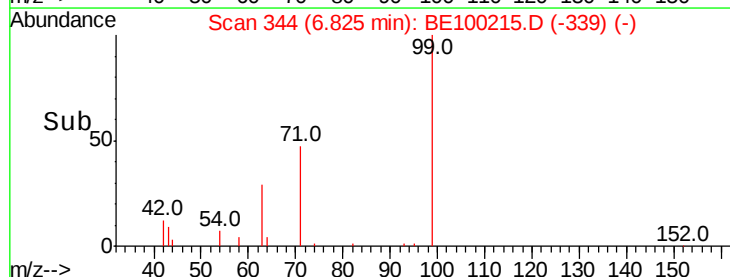
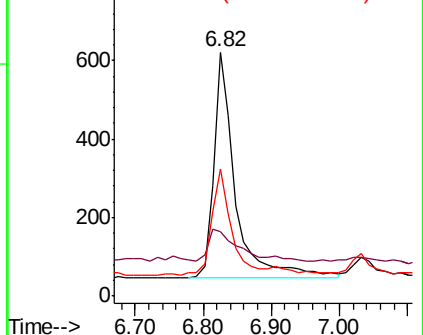
71 38.3 32.4 48.6

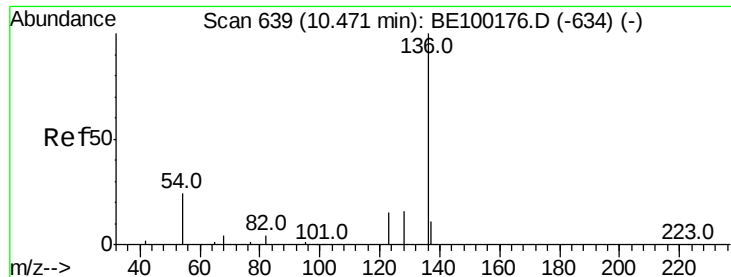


Abundance Ion 99.00 (98.70 to 99.70): BE1

Ion 42.00 (41.70 to 42.70): BE1

Ion 71.00 (70.70 to 71.70): BE1





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.44 min Scan# 637

Delta R.T. -0.03 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

Instrument :

BNA_E

ClientSampled :

Tot Ion:136 Resp: 3707

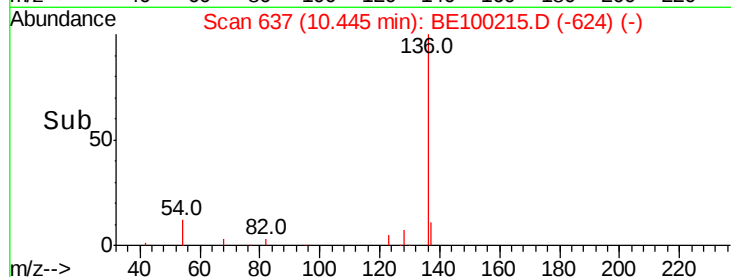
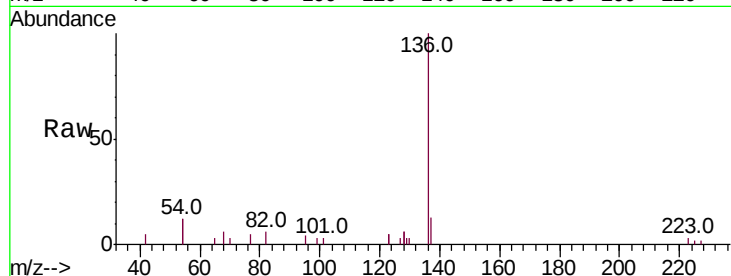
Ion Ratio Lower Upper

136 100

137 13.2 13.8 20.8#

54 23.7 35.4 53.2#

68 6.0 8.8 13.2#

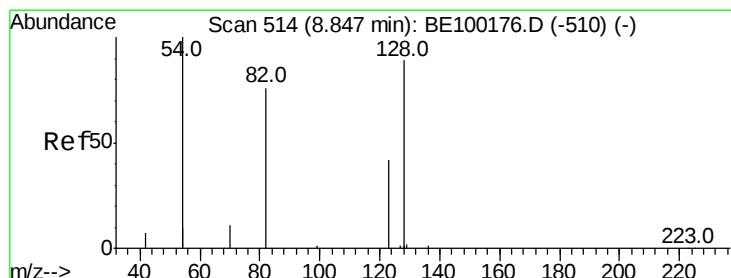
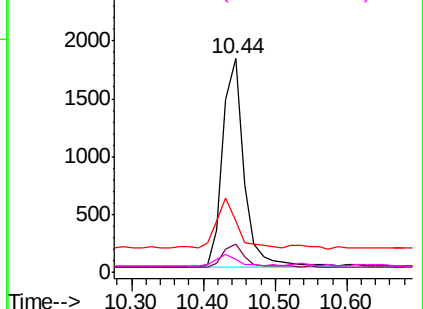


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE1

Ion 68.00 (67.70 to 68.70): BE1



#8

Nitrobenzene-d5

Concen: 0.336 ng

RT: 8.82 min Scan# 512

Delta R.T. -0.03 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

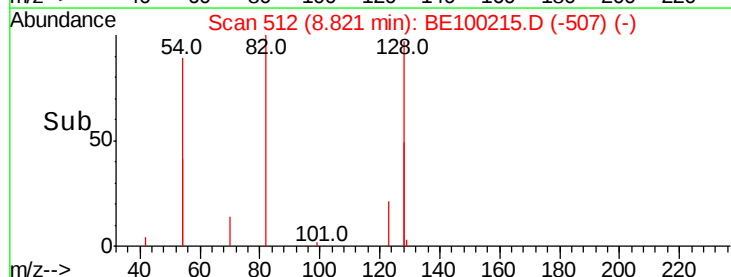
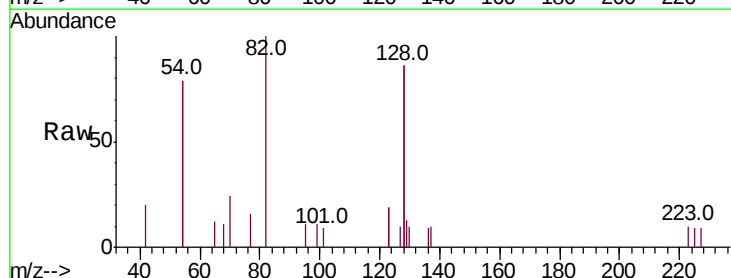
Tgt Ion: 82 Resp: 1239

Ion Ratio Lower Upper

82 100

128 172.0 144.6 217.0

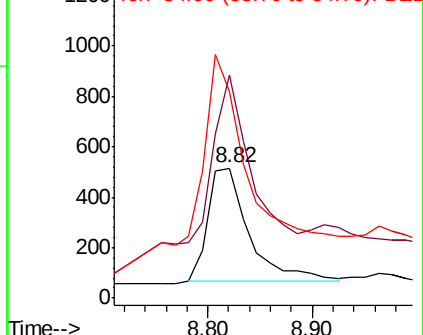
54 158.8 163.0 244.6#

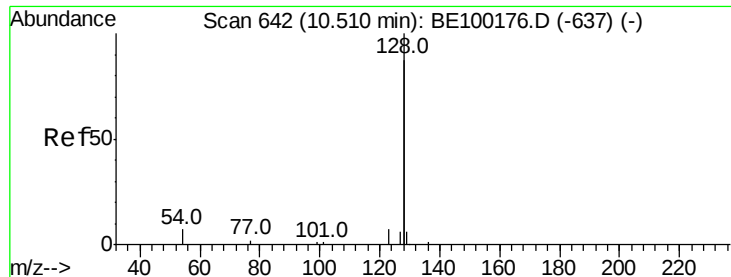


Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE1





#9

Naphthalene

Concen: 0.427 ng

RT: 10.48 min Scan# 640

Delta R.T. -0.03 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

Instrument :

BNA_E

ClientSampleId :

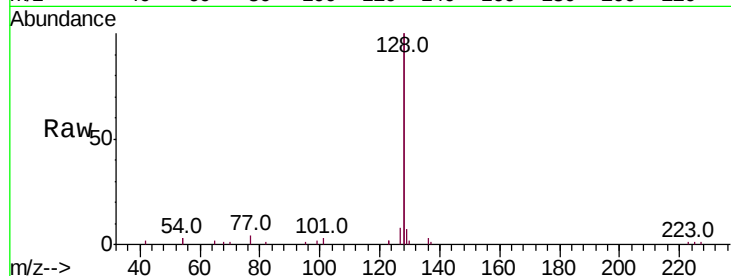
Tot Ion:128 Resp: 17279

Ion Ratio Lower Upper

128 100

129 3.4 3.6 5.4#

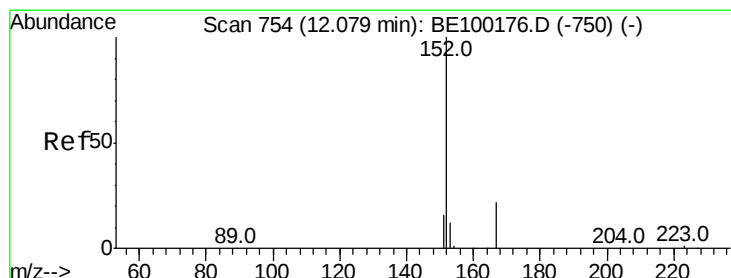
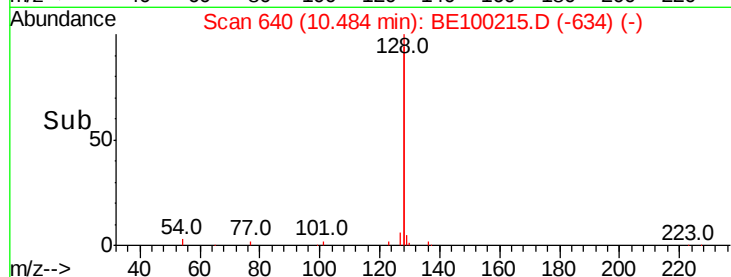
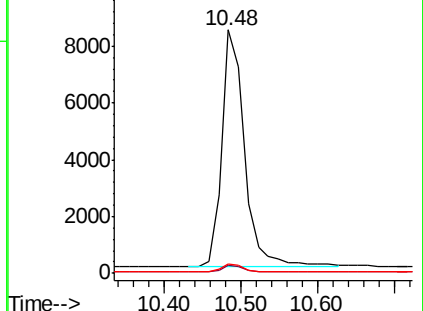
127 3.8 3.8 5.8#



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: 0.375 ng

RT: 12.04 min Scan# 751

Delta R.T. -0.04 min

Lab File: BE100215.D

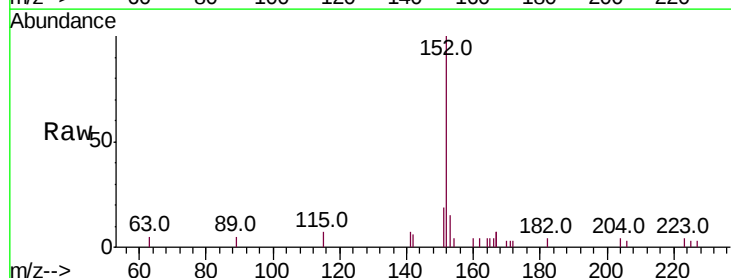
Acq: 27 Jun 2019 21:27

Tgt Ion:152 Resp: 2606

Ion Ratio Lower Upper

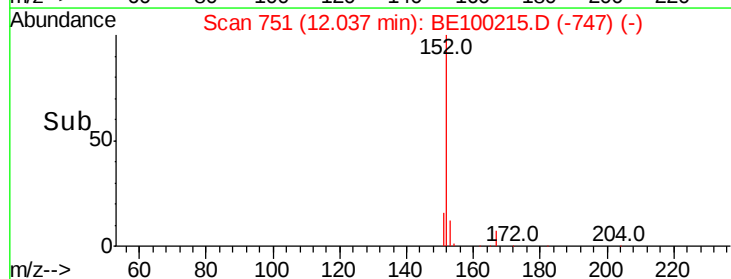
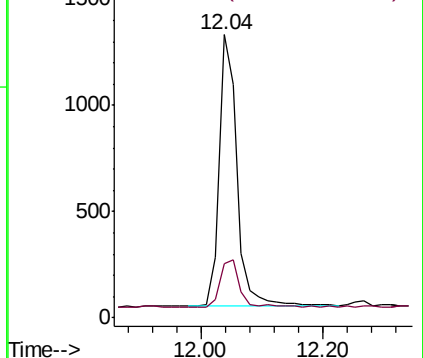
152 100

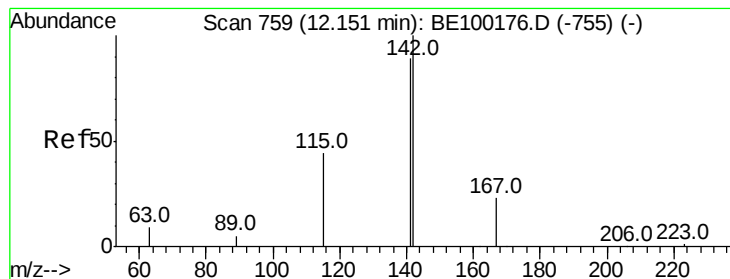
151 20.0 16.3 24.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#12

2-Methylnaphthalene

Concen: 0.540 ng

RT: 12.12 min Scan# 757

Delta R.T. -0.03 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

Instrument :

BNA_E

ClientSampled :

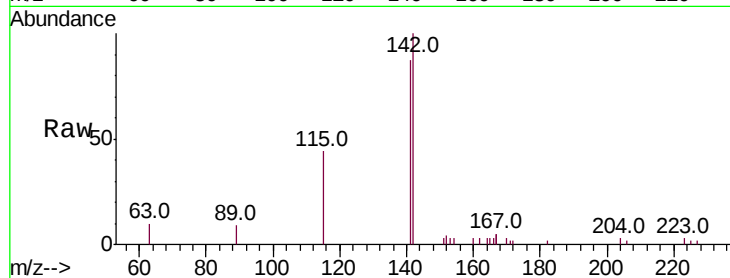
Tot Ion:142 Resp: 3518

Ion Ratio Lower Upper

142 100

141 87.2 71.8 107.8

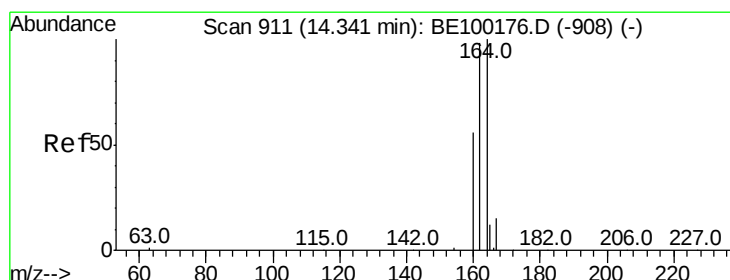
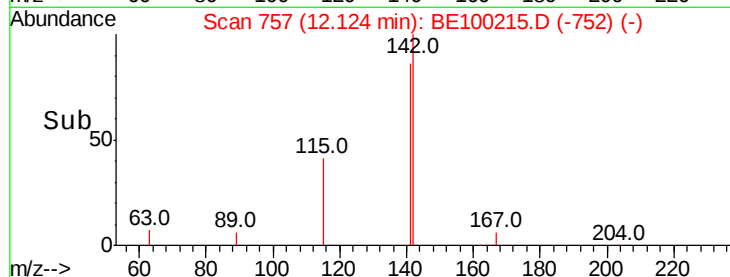
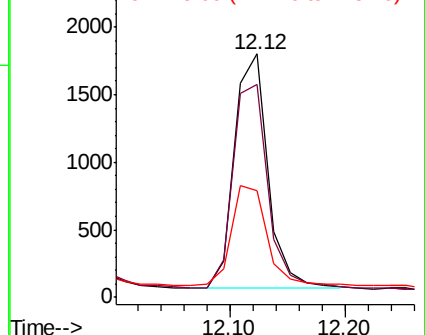
115 44.1 40.4 60.6



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.31 min Scan# 909

Delta R.T. -0.03 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

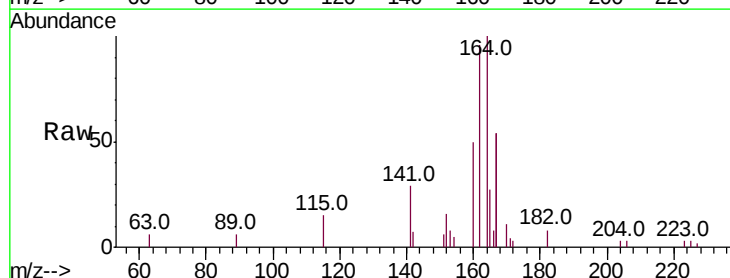
Tgt Ion:164 Resp: 3064

Ion Ratio Lower Upper

164 100

162 96.3 78.6 118.0

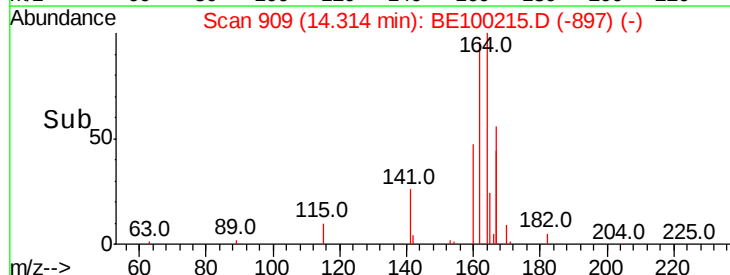
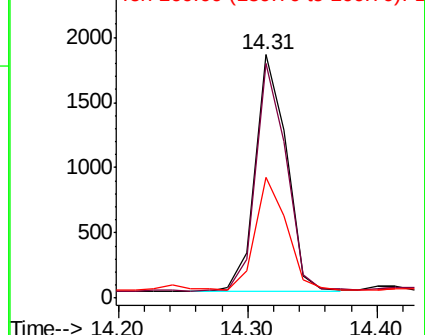
160 49.7 46.9 70.3

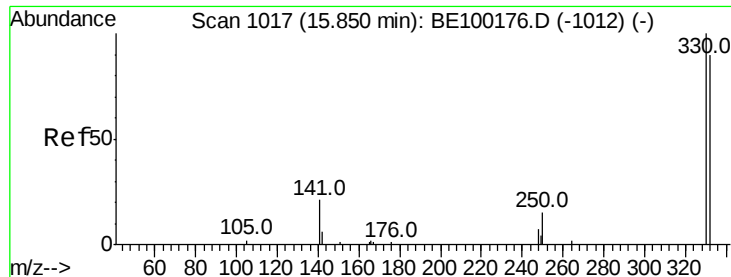


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

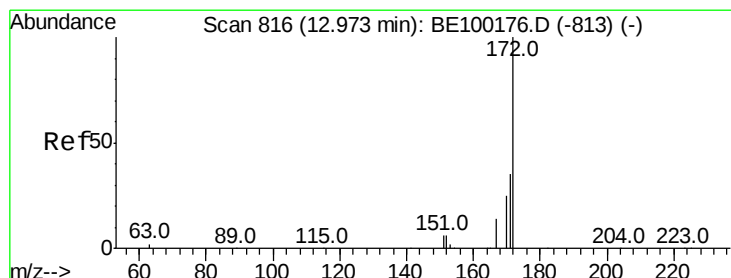
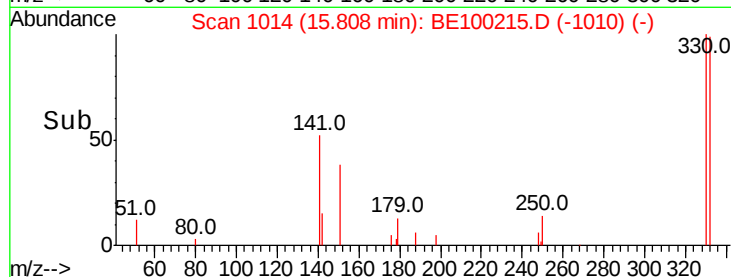
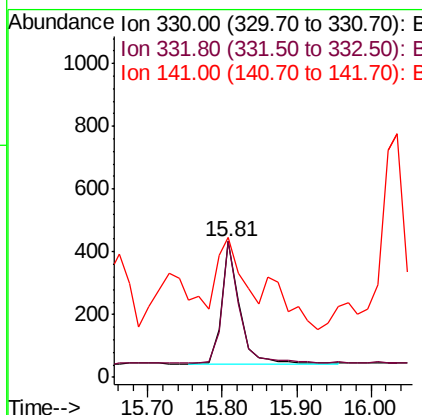
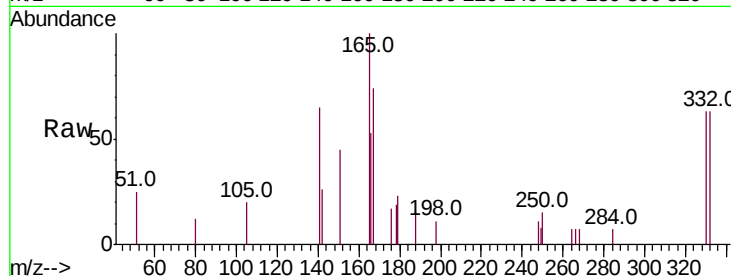




#14
2,4,6-Tribromophenol
Concen: 0.367 ng
RT: 15.81 min Scan# 1014
Delta R.T. -0.04 min
Lab File: BE100215.D
Acq: 27 Jun 2019 21:27

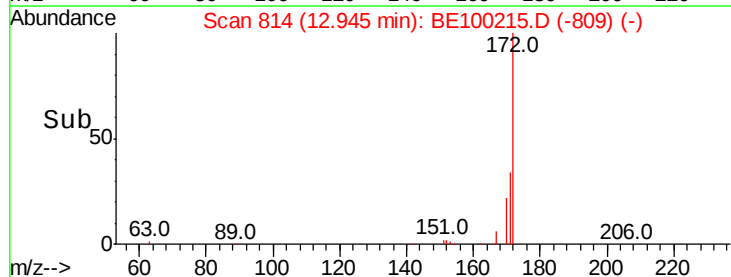
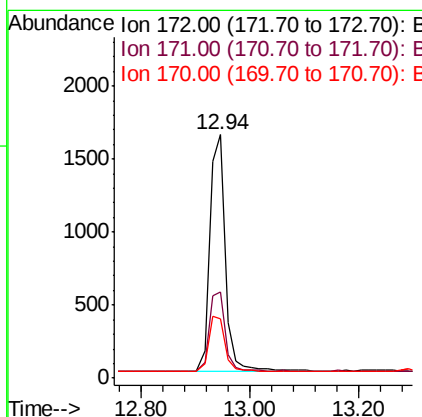
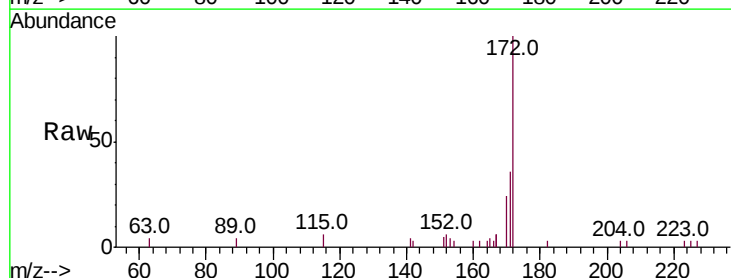
Instrument :
BNA_E
ClientSampleId :

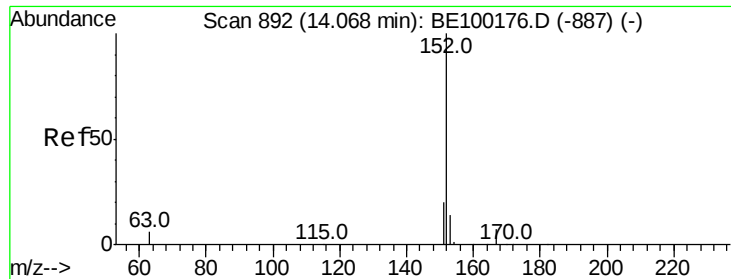
Tot Ion:330 Resp: 651
Ion Ratio Lower Upper
330 100
332 97.7 77.7 116.5
141 75.6 18.9 28.3#



#15
2-Fluorobiphenyl
Concen: 0.263 ng
RT: 12.94 min Scan# 814
Delta R.T. -0.03 min
Lab File: BE100215.D
Acq: 27 Jun 2019 21:27

Tgt Ion:172 Resp: 3231
Ion Ratio Lower Upper
172 100
171 35.5 31.0 46.4
170 24.3 23.9 35.9

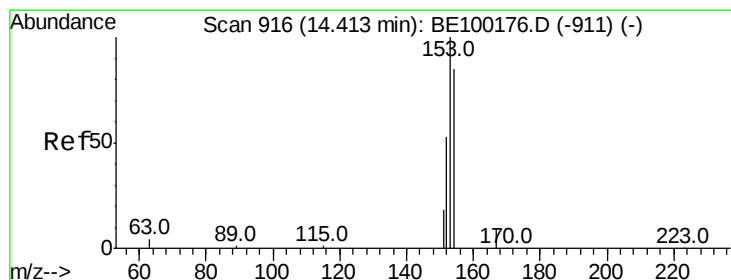
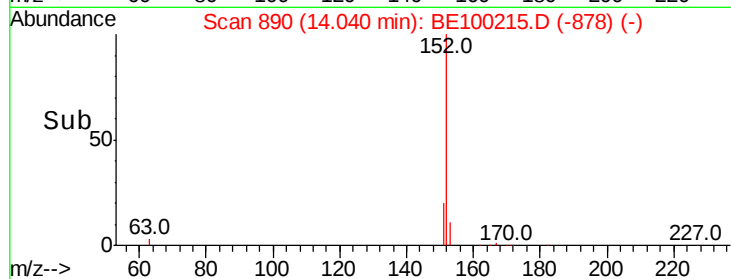
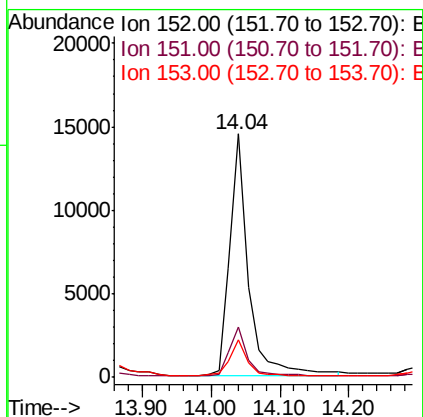
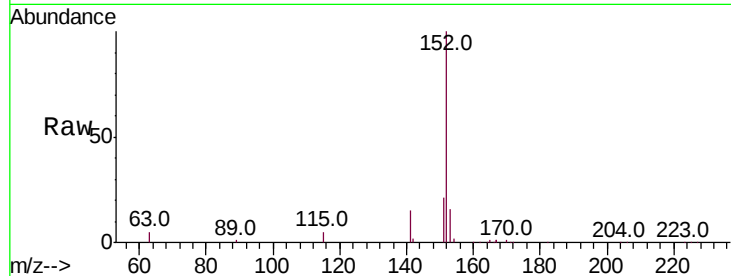




#16
Acenaphthylene
Concen: 1.819 ng
RT: 14.04 min Scan# 890
Delta R.T. -0.03 min
Lab File: BE100215.D
Acq: 27 Jun 2019 21:27

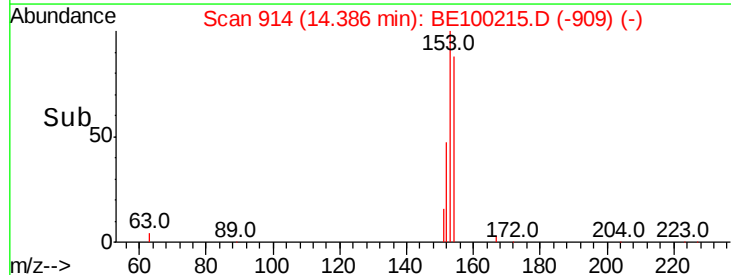
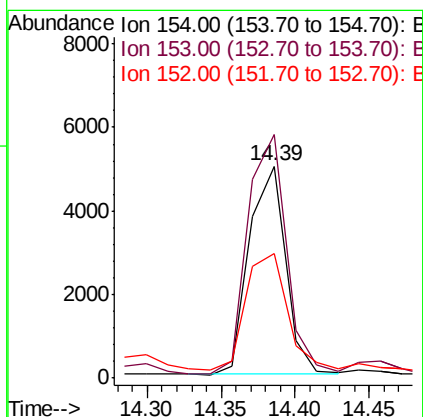
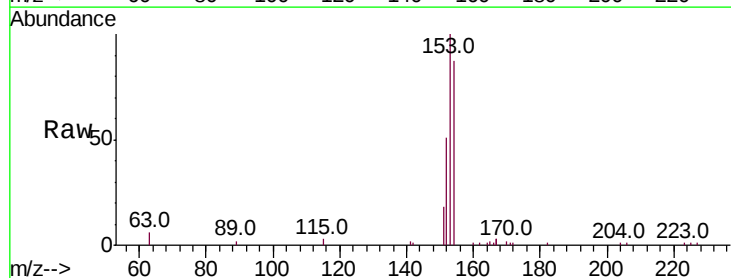
Instrument :
BNA_E
ClientSampleId :

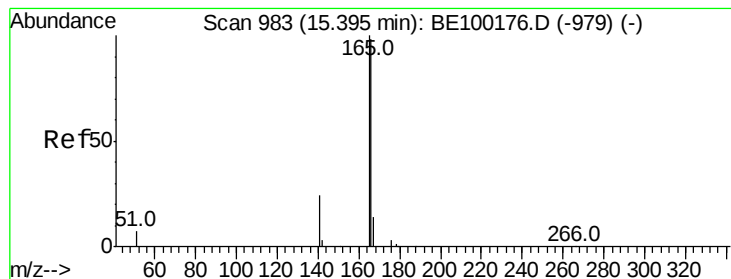
Tot Ion:152 Resp: 27182
Ion Ratio Lower Upper
152 100
151 20.2 15.4 23.0
153 14.6 10.8 16.2



#17
Acenaphthene
Concen: 1.022 ng
RT: 14.39 min Scan# 914
Delta R.T. -0.03 min
Lab File: BE100215.D
Acq: 27 Jun 2019 21:27

Tgt Ion:154 Resp: 8556
Ion Ratio Lower Upper
154 100
153 121.6 95.3 142.9
152 65.4 52.9 79.3





#18

Fluorene

Concen: 1.211 ng

RT: 15.35 min Scan# 980

Delta R.T. -0.04 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

Instrument :

BNA_E

ClientSampleId :

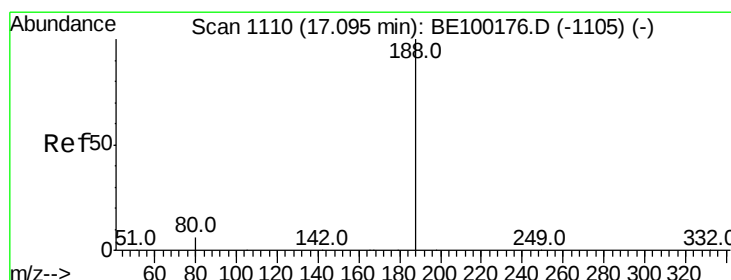
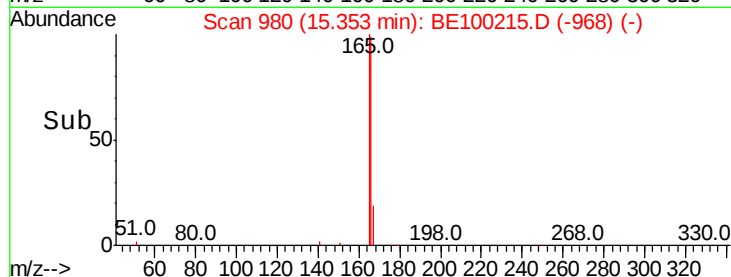
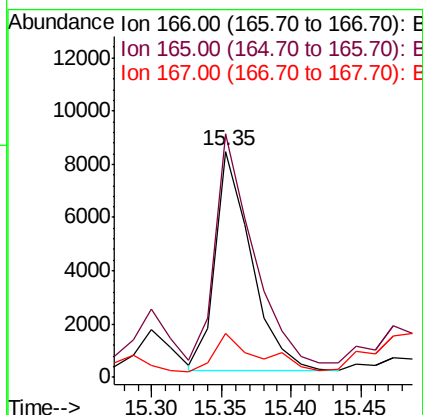
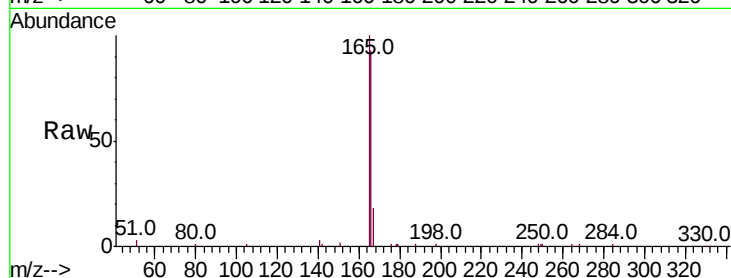
Tot Ion:166 Resp: 14661

Ion Ratio Lower Upper

166 100

165 109.1 81.0 121.4

167 22.2 11.4 17.0#



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.05 min Scan# 1107

Delta R.T. -0.04 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

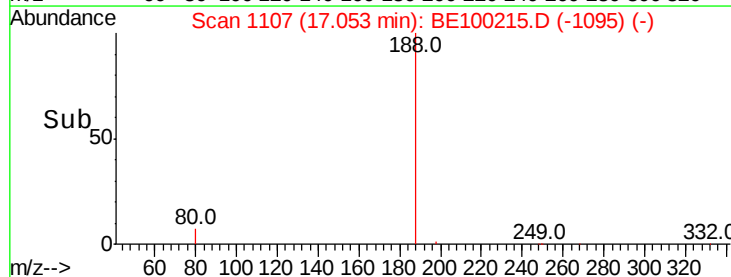
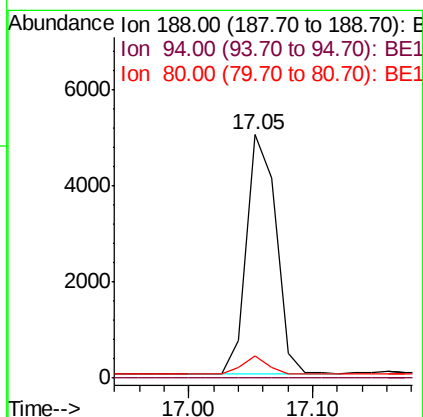
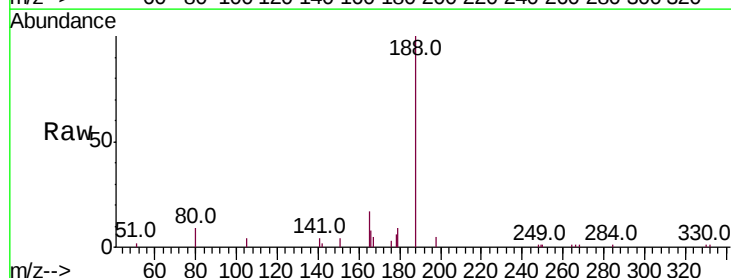
Tgt Ion:188 Resp: 8306

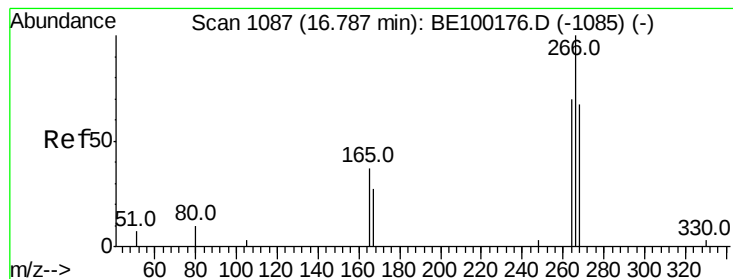
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.0 6.4 9.6





#22

Pentachlorophenol

Concen: 0.282 ng

RT: 16.72 min Scan# 1082

Delta R.T. -0.07 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

Instrument :

BNA_E

ClientSampleId :

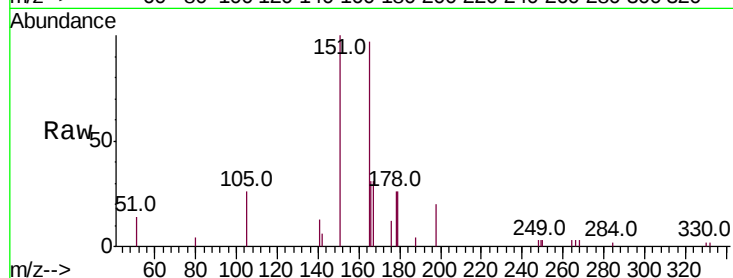
Tot Ion:266 Resp: 20

Ion Ratio Lower Upper

266 100

264 100.0 67.7 101.5

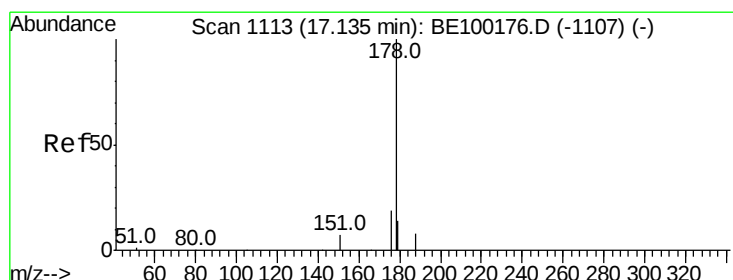
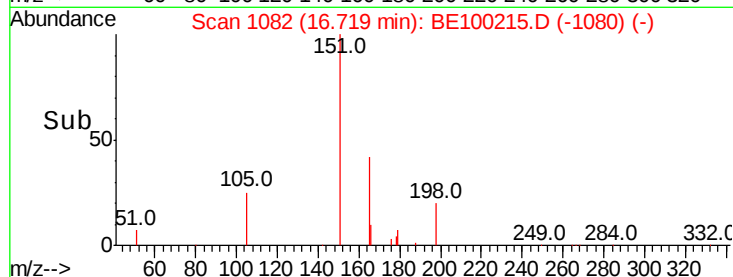
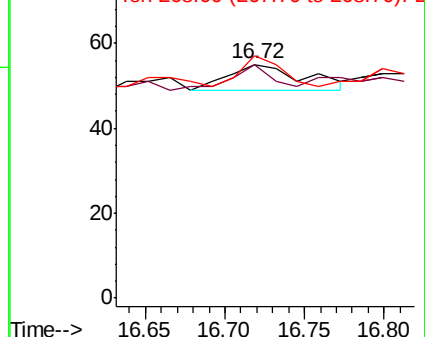
268 103.6 69.8 104.6



Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E



#23

Phenanthrene

Concen: 20.530 ng

RT: 17.11 min Scan# 1111

Delta R.T. -0.03 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

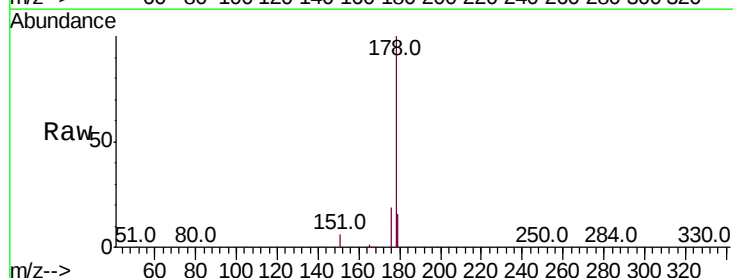
Tgt Ion:178 Resp: 403925

Ion Ratio Lower Upper

178 100

176 20.0 15.5 23.3

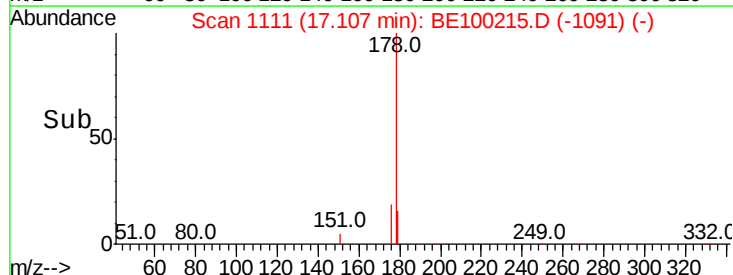
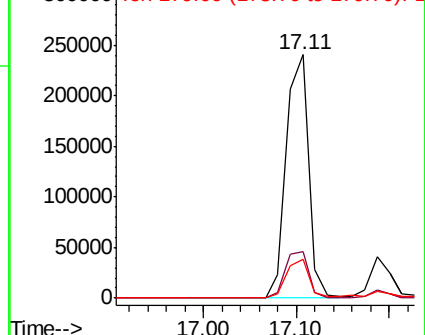
179 16.1 12.2 18.2

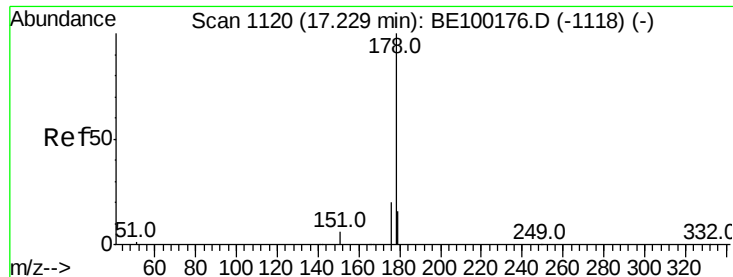


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

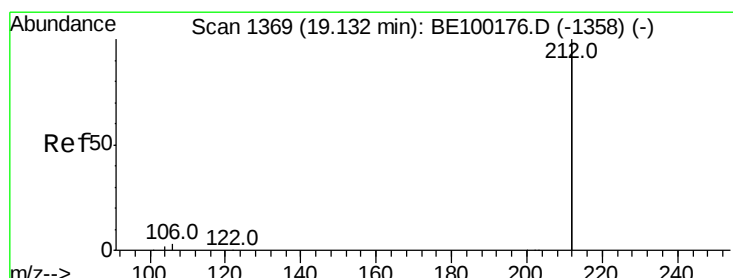
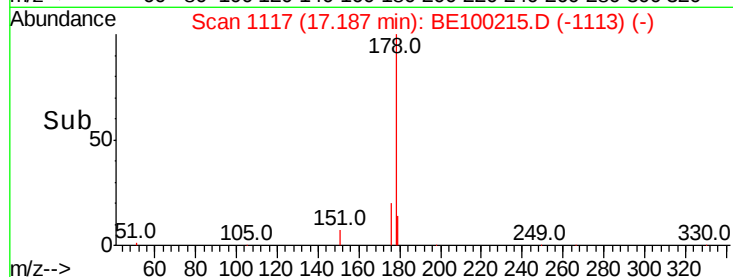
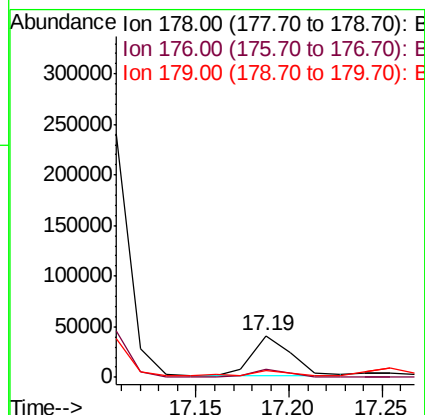
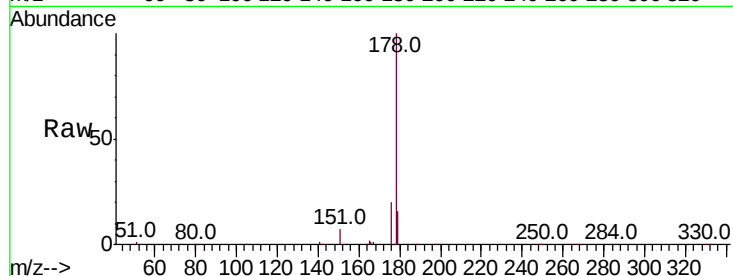




#24
 Anthracene
 Concen: 3.441 ng
 RT: 17.19 min Scan# 1117
 Delta R.T. -0.04 min
 Lab File: BE100215.D
 Acq: 27 Jun 2019 21:27

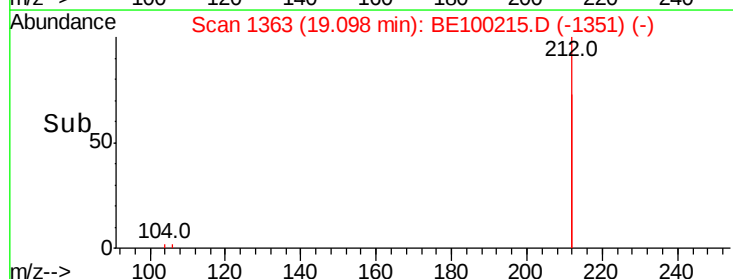
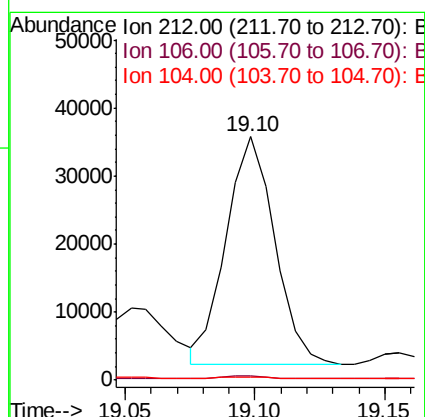
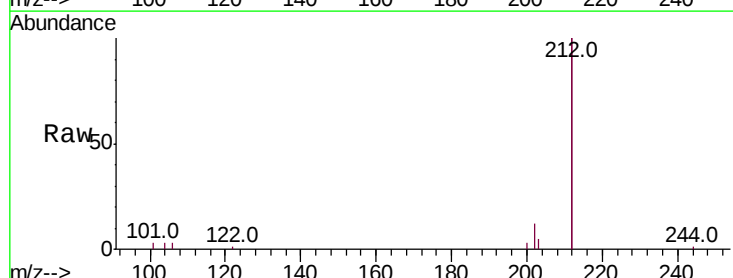
Instrument :
 BNA_E
 ClientSampleId :

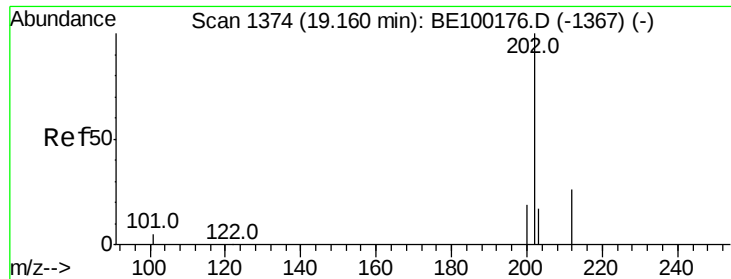
Tot Ion:178 Resp: 57175
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.7 23.5
 179 14.2 12.9 19.3



#25
 Fluoranthene-d10
 Concen: 0.365 ng
 RT: 19.10 min Scan# 1363
 Delta R.T. -0.03 min
 Lab File: BE100215.D
 Acq: 27 Jun 2019 21:27

Tgt Ion:212 Resp: 43692
 Ion Ratio Lower Upper
 212 100
 106 1.4 1.3 1.9
 104 1.1 0.7 1.1#

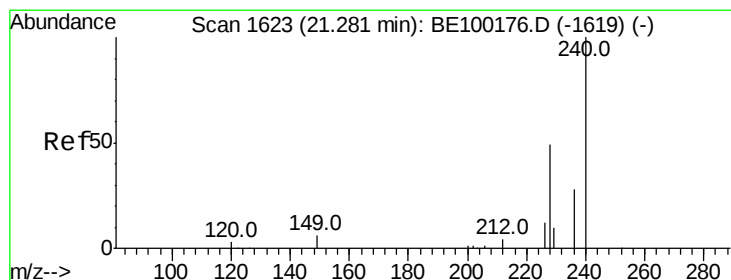
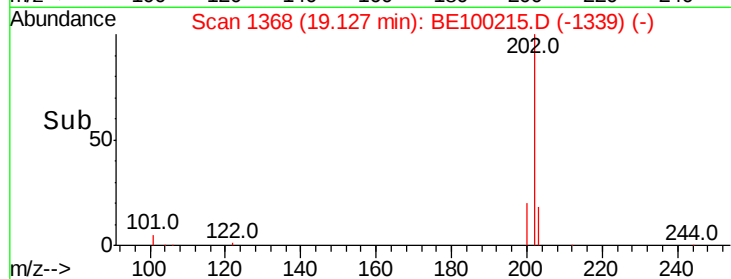
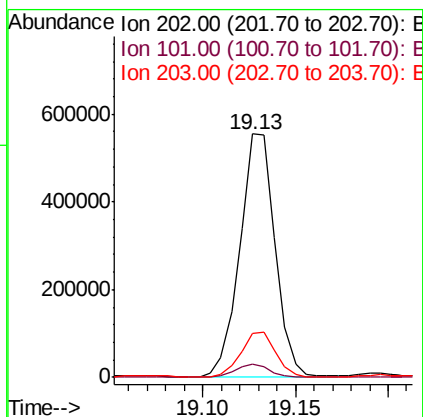
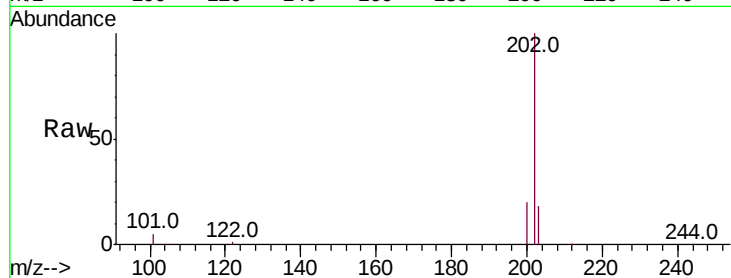




#26
Fluoranthene
Concen: 22.785 ng
RT: 19.13 min Scan# 1368
Delta R.T. -0.03 min
Lab File: BE100215.D
Acq: 27 Jun 2019 21:27

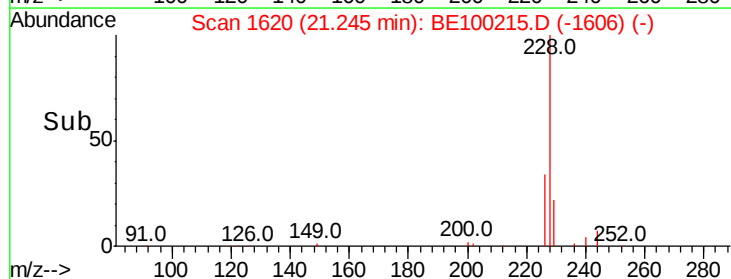
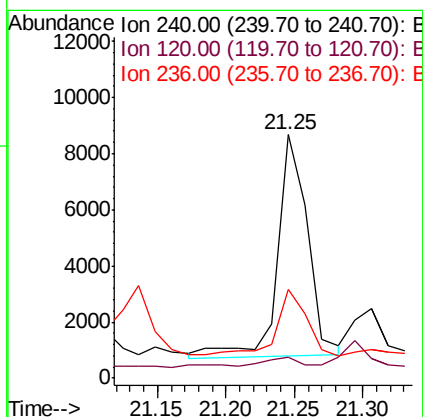
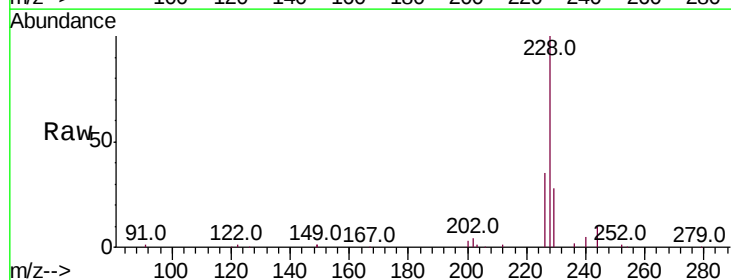
Instrument :
BNA_E
ClientSampleId :

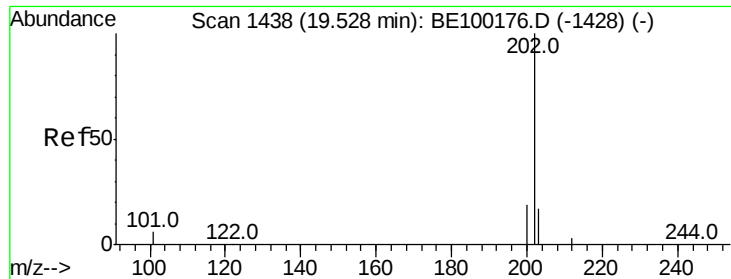
Tot Ion:202 Resp: 729296
Ion Ratio Lower Upper
202 100
101 5.2 4.5 6.7
203 18.3 13.7 20.5



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.25 min Scan# 1620
Delta R.T. -0.04 min
Lab File: BE100215.D
Acq: 27 Jun 2019 21:27

Tgt Ion:240 Resp: 12048
Ion Ratio Lower Upper
240 100
120 8.8 4.1 6.1#
236 36.6 23.0 34.6#

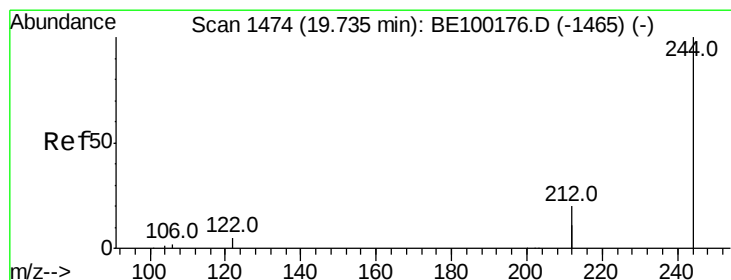
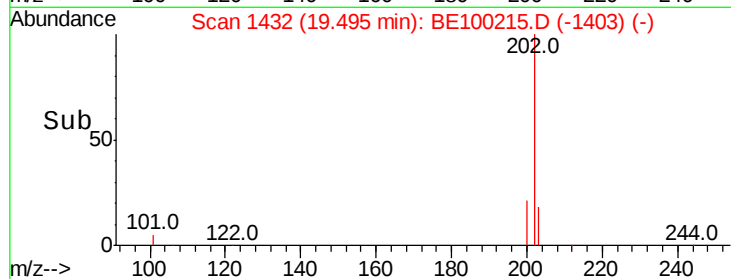
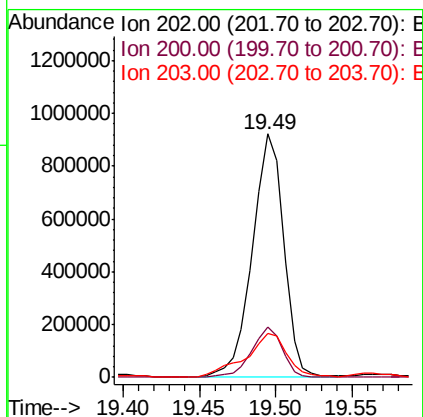
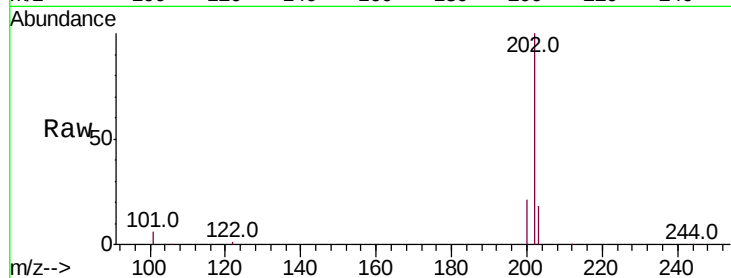




#28
Pvrene
Concen: 42.195 ng
RT: 19.49 min Scan# 1432
Delta R.T. -0.03 min
Lab File: BE100215.D
Acq: 27 Jun 2019 21:27

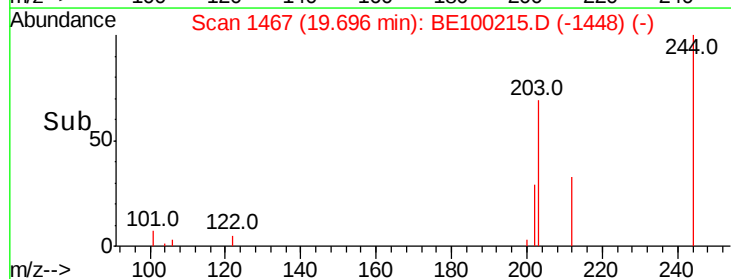
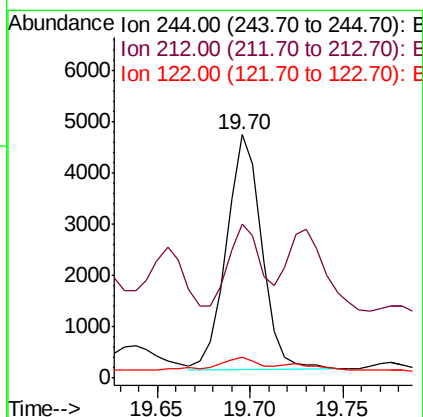
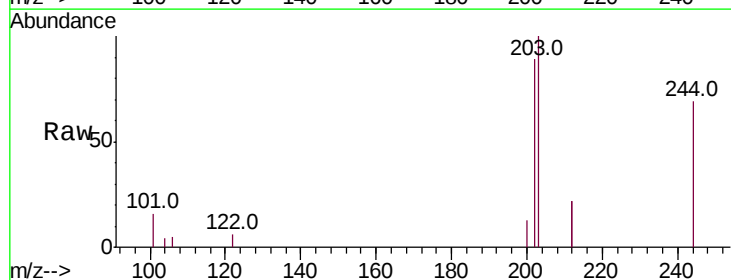
Instrument :
BNA_E
ClientSampleId :

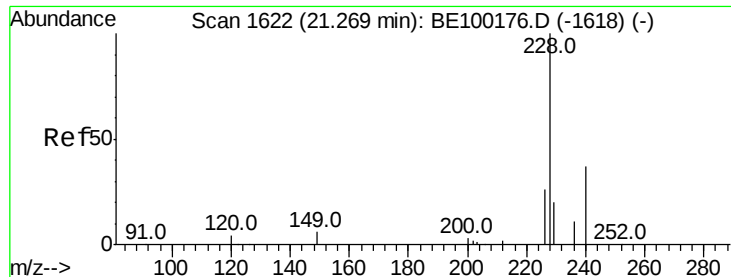
Tot Ion:202 Resp: 1301867
Ion Ratio Lower Upper
202 100
200 20.3 15.5 23.3
203 23.4 13.9 20.9#



#29
Terphenyl-d14
Concen: 0.256 ng
RT: 19.70 min Scan# 1467
Delta R.T. -0.04 min
Lab File: BE100215.D
Acq: 27 Jun 2019 21:27

Tgt Ion:244 Resp: 6055
Ion Ratio Lower Upper
244 100
212 63.5 30.7 46.1#
122 8.3 5.8 8.6

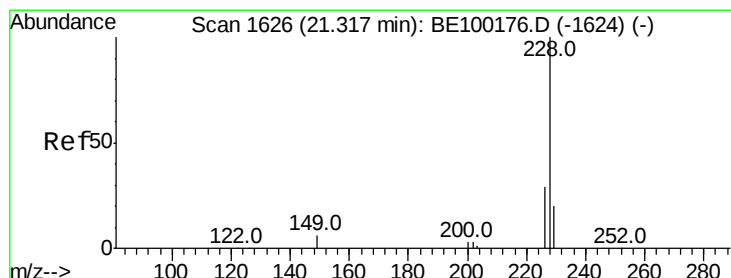
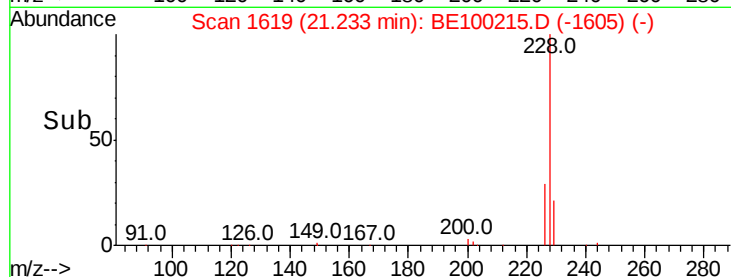
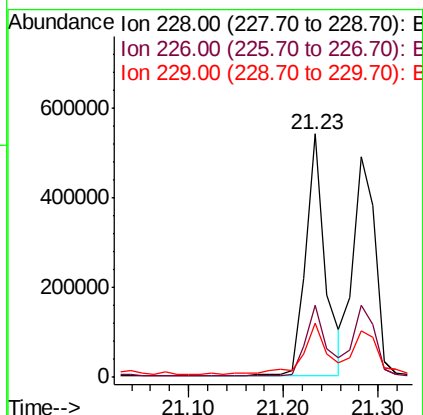
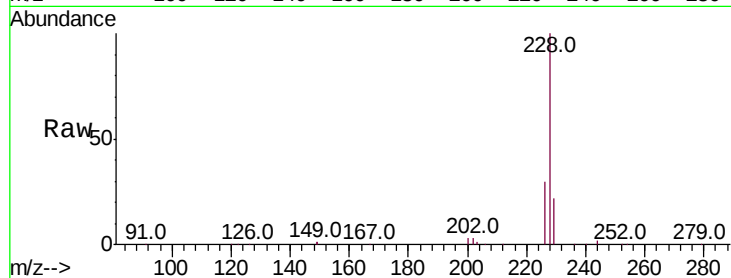




#30
Benzo(a)anthracene
Concen: 21.840 ng
RT: 21.23 min Scan# 1619
Delta R.T. -0.04 min
Lab File: BE100215.D
Acq: 27 Jun 2019 21:27

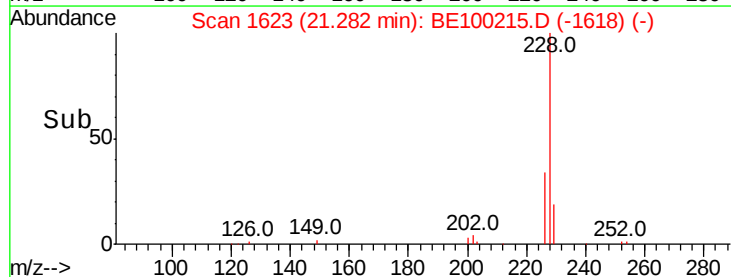
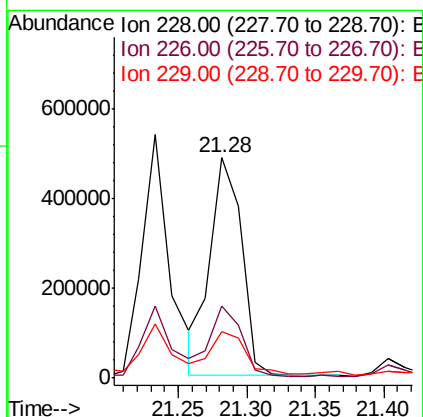
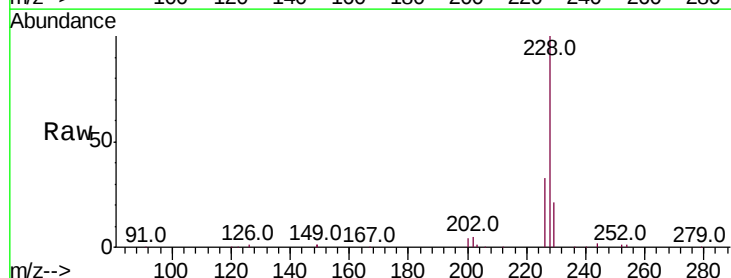
Instrument :
BNA_E
ClientSampleId :

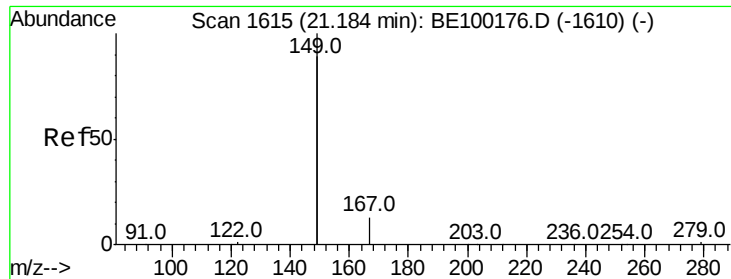
Tot Ion:228 Resp: 775758
Ion Ratio Lower Upper
228 100
226 29.7 21.5 32.3
229 22.0 17.2 25.8



#31
Chrysene
Concen: 18.588 ng
RT: 21.28 min Scan# 1623
Delta R.T. -0.04 min
Lab File: BE100215.D
Acq: 27 Jun 2019 21:27

Tgt Ion:228 Resp: 774417
Ion Ratio Lower Upper
228 100
226 32.5 23.7 35.5
229 21.3 16.5 24.7





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.700 ng

RT: 21.16 min Scan# 1613

Delta R.T. -0.02 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

Instrument :

BNA_E

ClientSampleId :

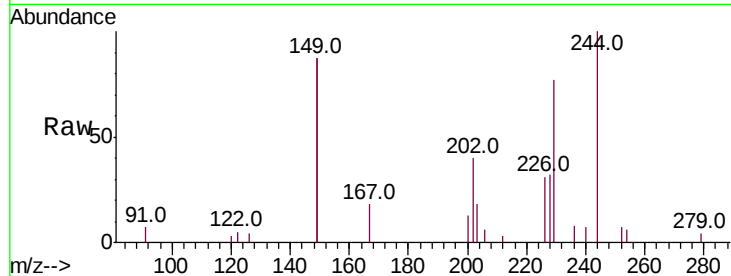
Tot Ion:149 Resp: 28581

Ion Ratio Lower Upper

149 100

167 9.1 5.9 8.9#

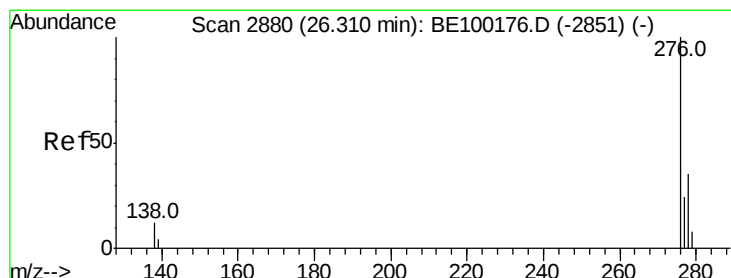
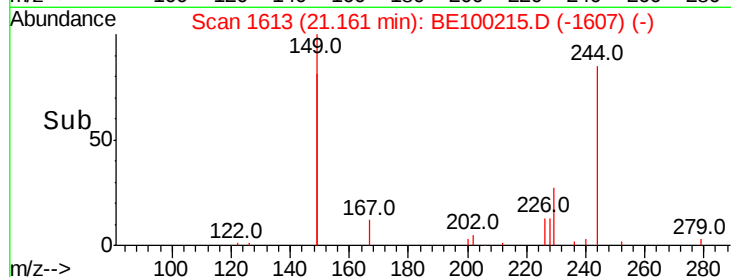
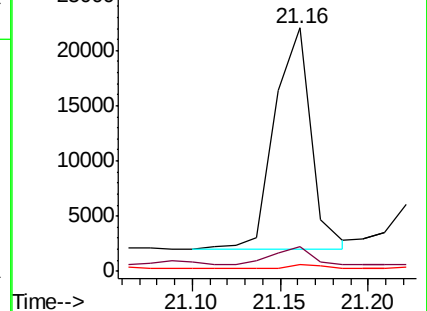
279 1.4 1.0 1.6



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: 4.680 ng

RT: 26.24 min Scan# 2860

Delta R.T. -0.07 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

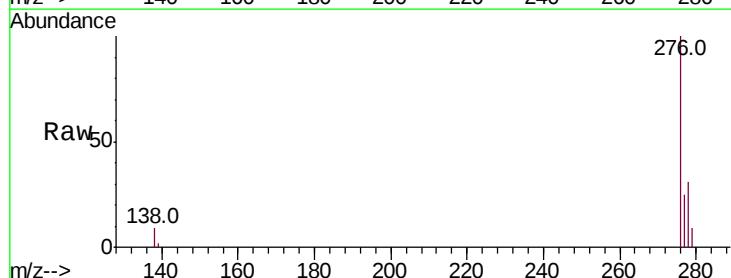
Tgt Ion:276 Resp: 277565

Ion Ratio Lower Upper

276 100

138 9.3 3.7 5.5#

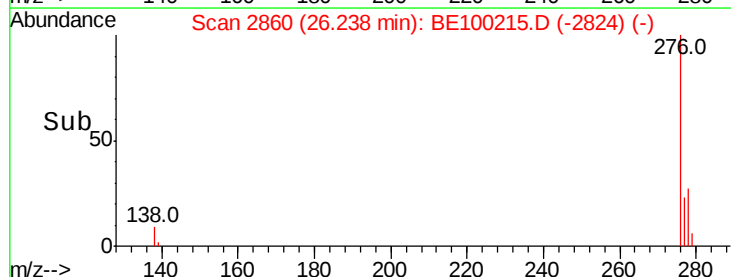
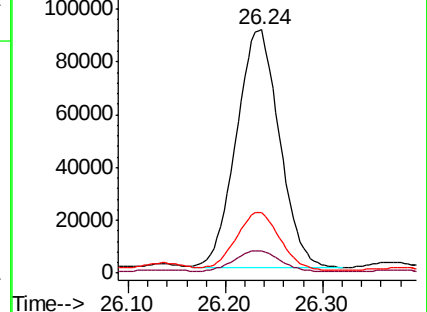
277 25.0 18.7 28.1

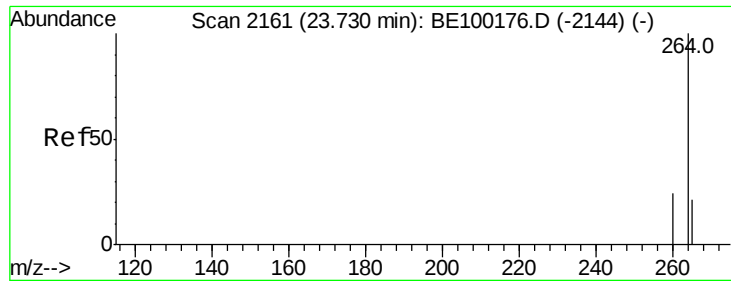


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

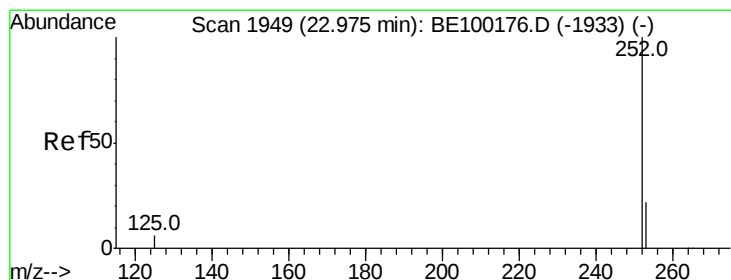
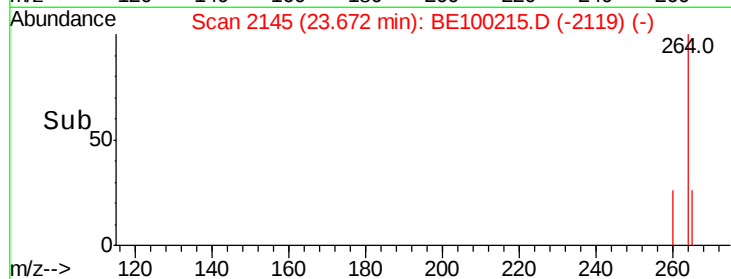
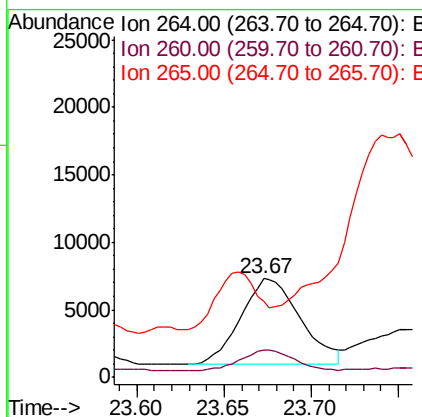
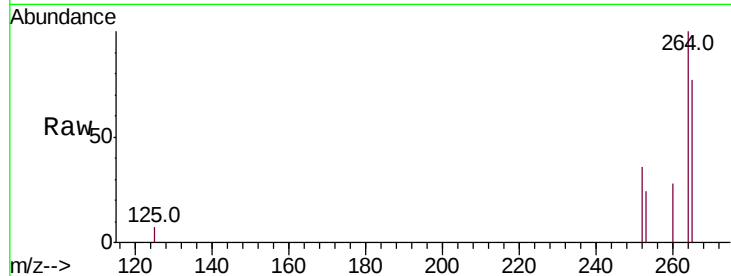




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.67 min Scan# 2145
Delta R.T. -0.06 min
Lab File: BE100215.D
Acq: 27 Jun 2019 21:27

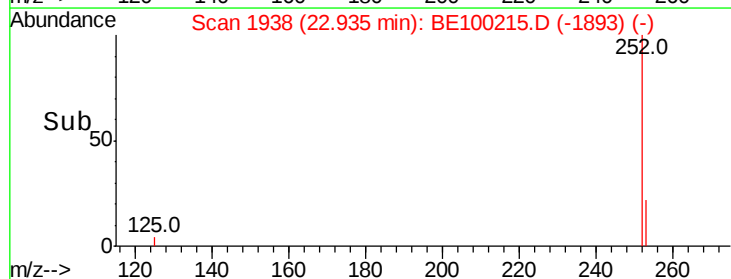
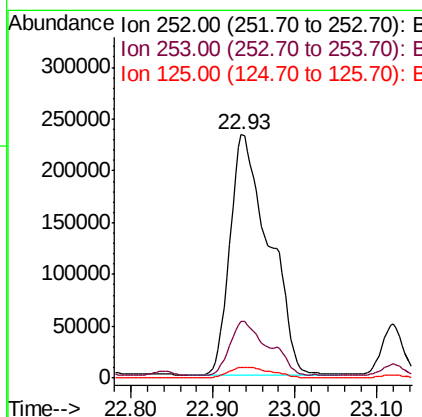
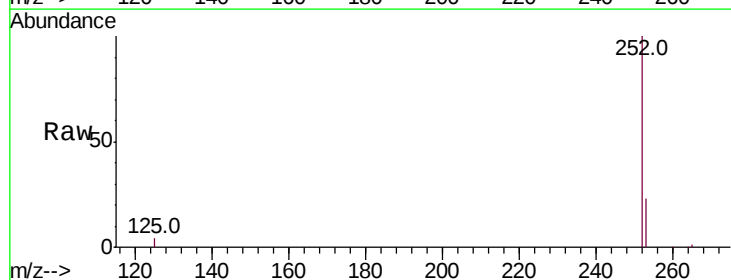
Instrument :
BNA_E
ClientSampleId :

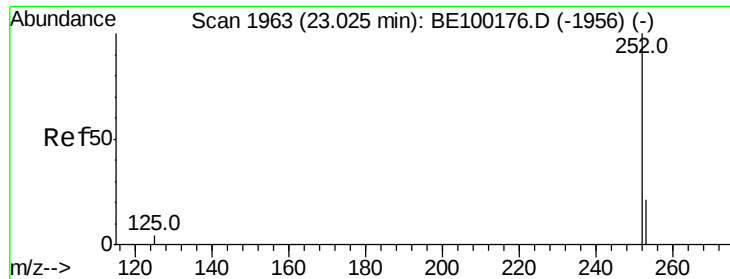
Tot Ion:264 Resp: 15171
Ion Ratio Lower Upper
264 100
260 28.1 20.4 30.6
265 77.2 22.5 33.7#



#35
Benzo(b)fluoranthene
Concen: 18.740 ng
RT: 22.93 min Scan# 1938
Delta R.T. -0.04 min
Lab File: BE100215.D
Acq: 27 Jun 2019 21:27

Tgt Ion:252 Resp: 764658
Ion Ratio Lower Upper
252 100
253 23.2 19.0 28.4
125 4.5 6.3 9.5#

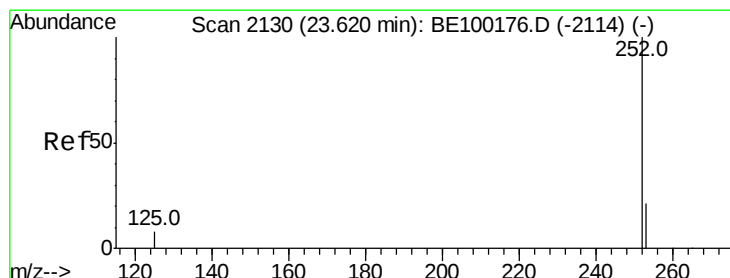
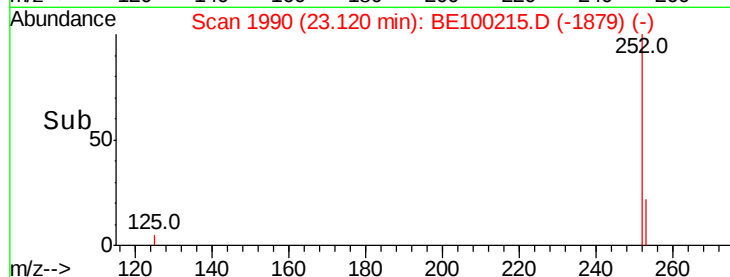
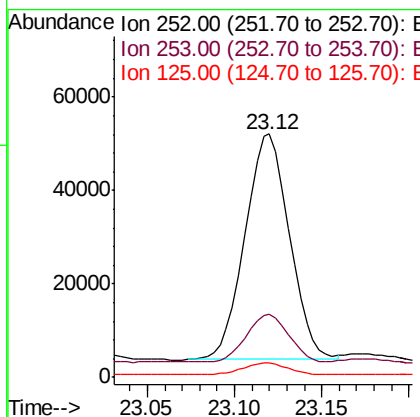
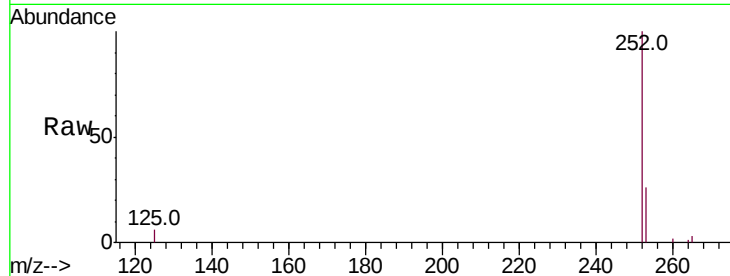




#36
Benzo(k)fluoranthene
Concen: 1.755 ng
RT: 23.12 min Scan# 1990
Delta R.T. 0.10 min
Lab File: BE100215.D
Acq: 27 Jun 2019 21:27

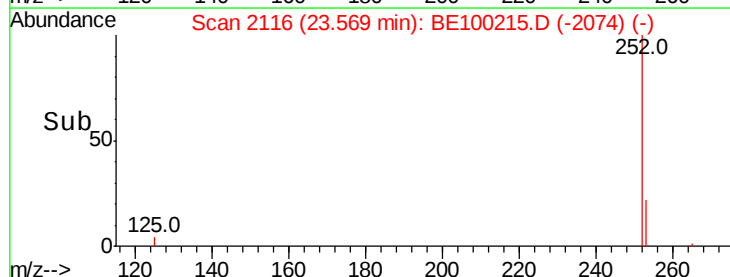
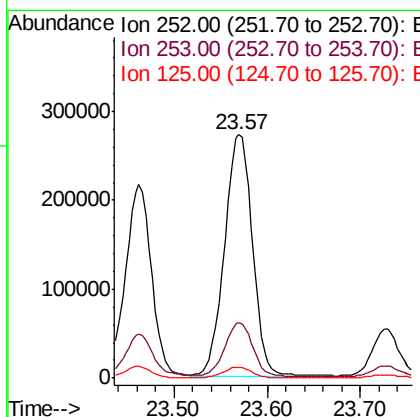
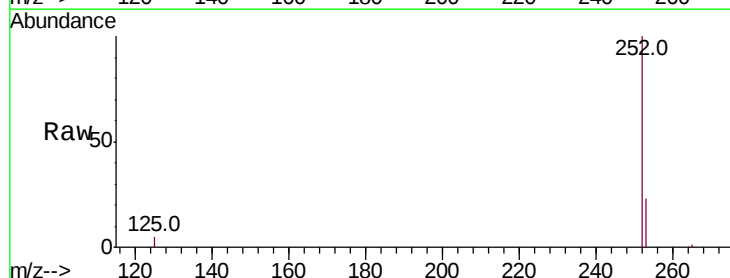
Instrument :
BNA_E
ClientSampleId :

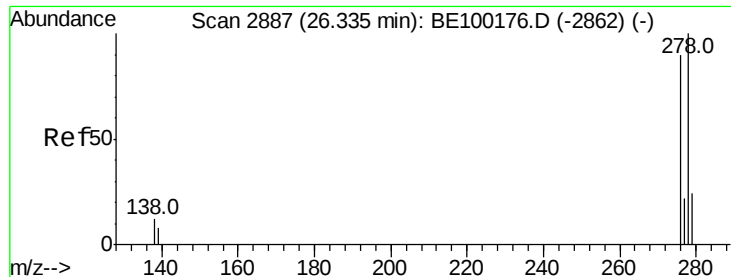
Tot Ion:252 Resp: 85693
Ion Ratio Lower Upper
252 100
253 26.2 18.4 27.6
125 5.7 5.0 7.4



#37
Benzo(a)pyrene
Concen: 13.398 ng
RT: 23.57 min Scan# 2116
Delta R.T. -0.05 min
Lab File: BE100215.D
Acq: 27 Jun 2019 21:27

Tgt Ion:252 Resp: 566473
Ion Ratio Lower Upper
252 100
253 22.8 19.2 28.8
125 4.6 8.2 12.2#



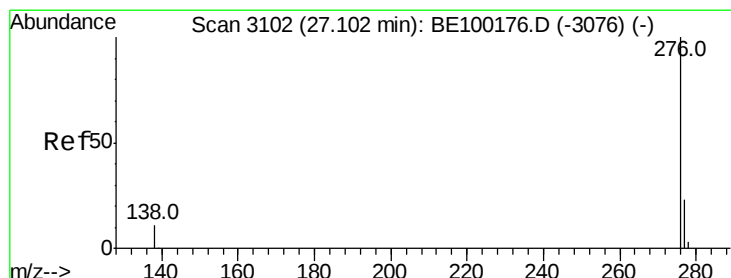
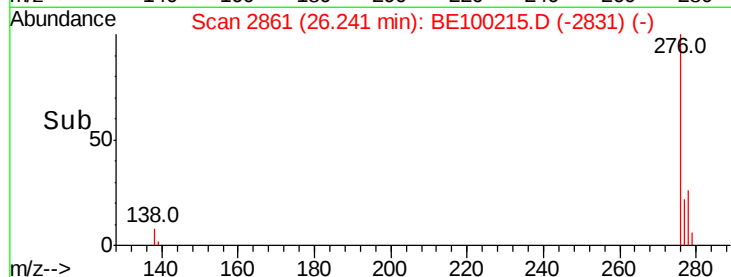
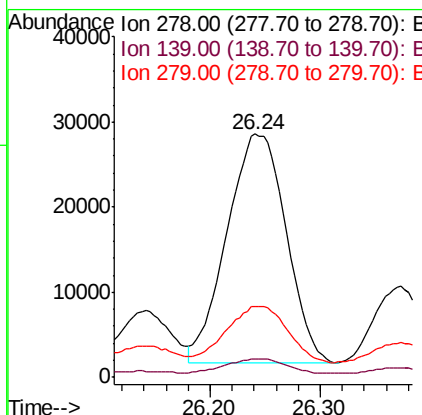
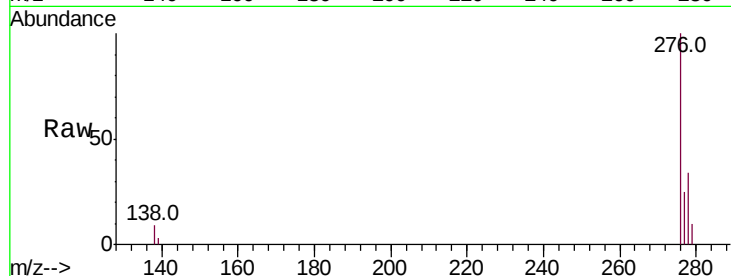


#38
Dibenzo(a,h)anthracene
Concen: 2.211 ng
RT: 26.24 min Scan# 2861
Delta R.T. -0.09 min
Lab File: BE100215.D
Acq: 27 Jun 2019 21:27

Instrument :
BNA_E
ClientSampleId :

Tot Ion:278 Resp: 100003

Ion	Ratio	Lower	Upper
278	100		
139	7.6	9.0	13.4#
279	29.3	21.1	31.7



#39
Benzo(g,h,i)perylene
Concen: 7.179 ng
RT: 27.03 min Scan# 3082
Delta R.T. -0.07 min
Lab File: BE100215.D
Acq: 27 Jun 2019 21:27

Tgt Ion:276 Resp: 338999

Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.8	29.6
138	9.1	10.2	15.4#

