

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE121619\
 Data File : BE100943.D
 Acq On : 17 Dec 2019 6:32
 Operator : JU
 Sample : K6239-05 5X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 BE-211-COMP-S

Quant Time: Dec 17 07:47:31 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE120419.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 13 10:42:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.81	152	6	0.40	ng	0.05
7) Naphthalene-d8	10.63	136	13	0.40	ng	0.09
13) Acenaphthene-d10	14.48	164	29	0.40	ng	0.10
19) Phenanthrene-d10	17.21	188	18	0.40	ng	0.09
27) Chrysene-d12	21.43	240	97	0.40	ng	0.12
34) Perylene-d12	23.87	264	16	0.40	ng	0.12

System Monitoring Compounds						
4) 2-Fluorophenol	5.39	112	33	2.32	ng	0.02
5) Phenol-d6	6.93	99	12	0.56	ng	0.00
8) Nitrobenzene-d5	8.96	82	9	1.45	ng	0.06
11) 2-Methylnaphthalene-d10	12.24	152	29	1.54	ng	0.10
14) 2,4,6-Tribromophenol	16.02	330	14	4.34	ng	0.15
15) 2-Fluorobiphenyl	13.10	172	5	0.04	ng	0.09
25) Fluoranthene-d10	19.27	212	79	0.37	ng	0.12
29) Terphenyl-d14	19.87	244	9	0.04	ng	0.12

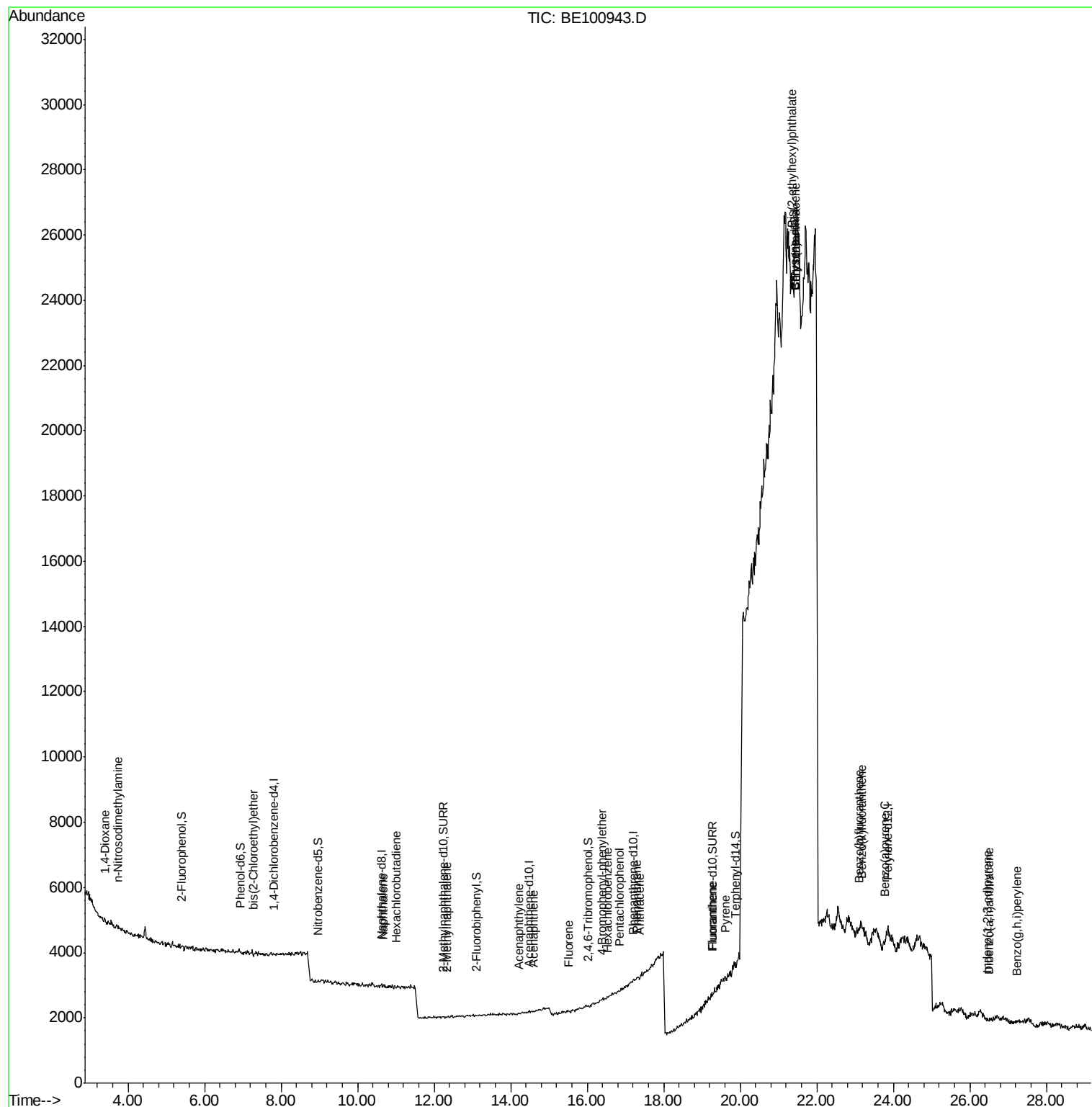
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.39	88	70	6.399	ng	# 26
3) n-Nitrosodimethylamine	3.73	42	53	5.952	ng	# 1
6) bis(2-Chloroethyl)ether	7.27	93	133	6.404	ng	# 1
9) Naphthalene	10.68	128	164	1.187	ng	# 56
10) Hexachlorobutadiene	11.02	225	5	0.928	ng	# 1
12) 2-Methylnaphthalene	12.34	142	32	1.484	ng	# 6
16) Acenaphthylene	14.21	152	6	0.050	ng	# 61
17) Acenaphthene	14.60	154	36	0.435	ng	# 84
18) Fluorene	15.51	166	6	0.056	ng	# 1
20) 4-Bromophenyl-phenylether	16.38	248	14	1.585	ng	# 34
21) Hexachlorobenzene	16.53	284	19	1.980	ng	# 36
22) Pentachlorophenol	16.84	266	14	21.097	ng	# 73
23) Phenanthrene	17.30	178	82	1.504	ng	# 1
24) Anthracene	17.36	178	35	0.768	ng	# 61
26) Fluoranthene	19.28	202	38	0.584	ng	# 31
28) Pyrene	19.62	202	19	0.060	ng	# 1
30) Benzo(a)anthracene	21.44	228	255	0.892	ng	# 1
31) Chrysene	21.44	228	229	0.682	ng	# 1
32) Bis(2-ethylhexyl)phthalate	21.34	149	1787	4.226	ng	# 83
33) Indeno(1,2,3-cd)pyrene	26.45	276	40	0.137	ng	# 49
35) Benzo(b)fluoranthene	23.11	252	56	1.278	ng	# 1
36) Benzo(k)fluoranthene	23.17	252	34	0.692	ng	# 1
37) Benzo(a)pyrene	23.77	252	14	0.369	ng	# 1
38) Dibenzo(a,h)anthracene	26.49	278	8	0.212	ng	# 1
39) Benzo(g,h,i)perylene	27.23	276	19	0.471	ng	# 1

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

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.81 min Scan# 429

Delta R.T. 0.05 min

Lab File: BE100943.D

Acq: 17 Dec 2019 6:32

Instrument :

BNA_E

ClientSampleId :

BE-211-COMP-S

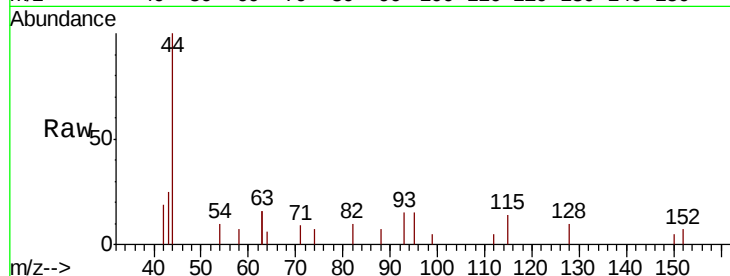
Tot Ion:152 Resp: 6

Ion Ratio Lower Upper

152 100

150 77.0 125.5 188.3#

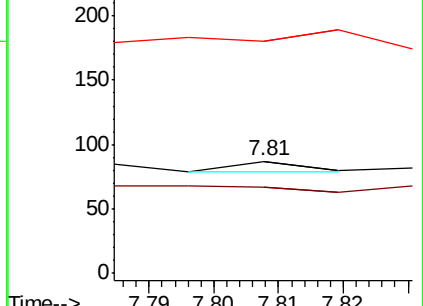
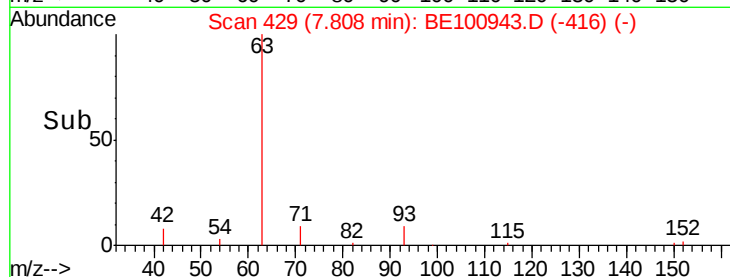
115 206.9 55.7 83.5#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 6.399 ng

RT: 3.39 min Scan# 45

Delta R.T. 0.05 min

Lab File: BE100943.D

Acq: 17 Dec 2019 6:32

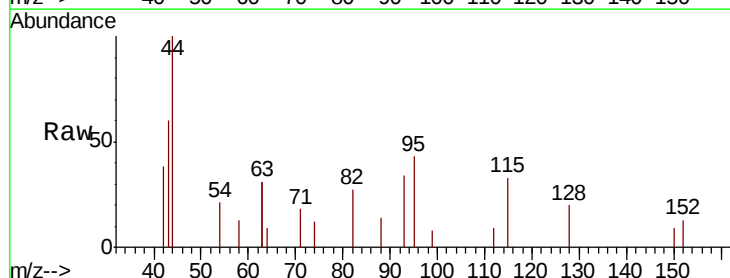
Tgt Ion: 88 Resp: 70

Ion Ratio Lower Upper

88 100

58 0.0 52.3 78.5#

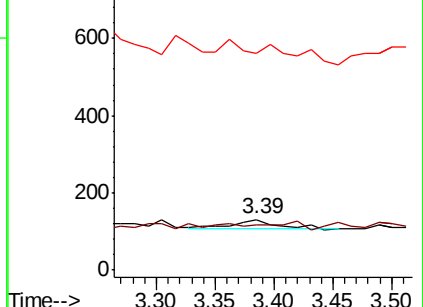
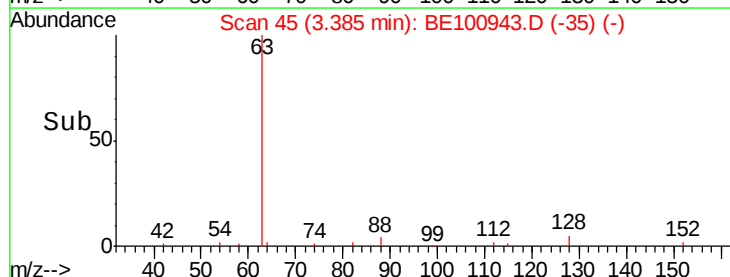
43 0.0 23.5 35.3#



Abundance Ion 88.00 (87.70 to 88.70): BE1

Ion 58.00 (57.70 to 58.70): BE1

Ion 43.00 (42.70 to 43.70): BE1





#3

n-Nitrosodimethylamine

Concen: 5.952 ng

RT: 3.73 min Scan# 75

Delta R.T. 0.08 min

Lab File: BE100943.D

Acq: 17 Dec 2019 6:32

Instrument :

BNA_E

ClientSampleId :

BE-211-COMP-S

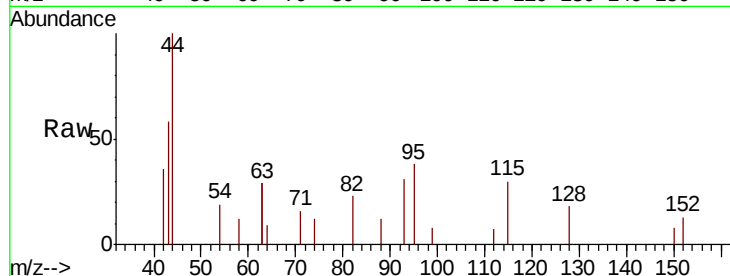
Tot Ion: 42 Resp: 53

Ion Ratio Lower Upper

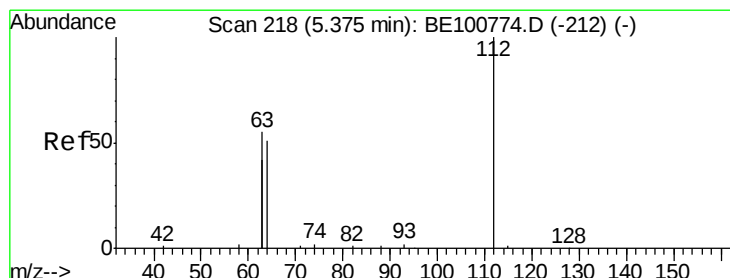
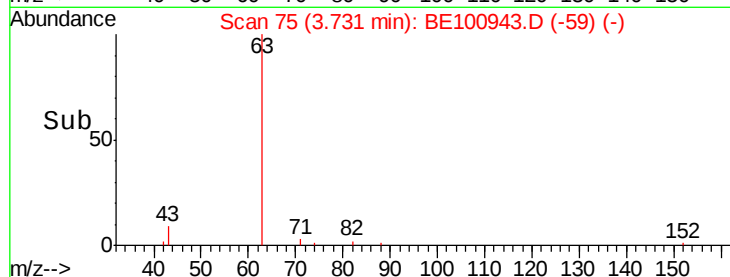
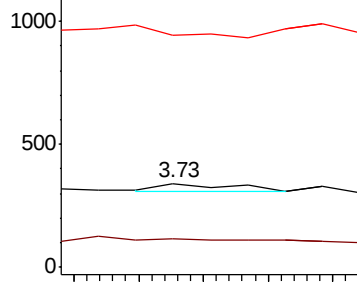
42 100

74 0.0 90.3 135.5#

44 313.2 9.0 13.4#



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: 2.318 ng

RT: 5.39 min Scan# 219

Delta R.T. 0.02 min

Lab File: BE100943.D

Acq: 17 Dec 2019 6:32

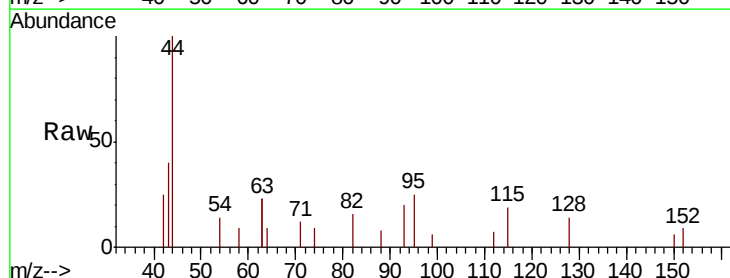
Tgt Ion: 112 Resp: 33

Ion Ratio Lower Upper

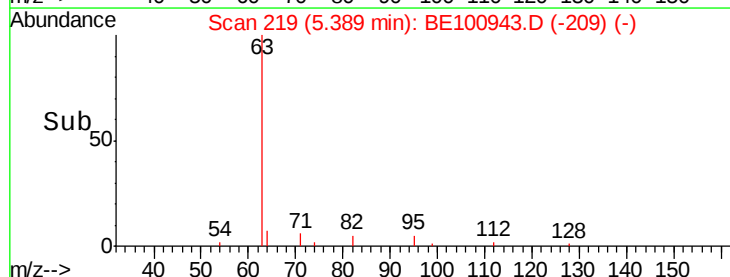
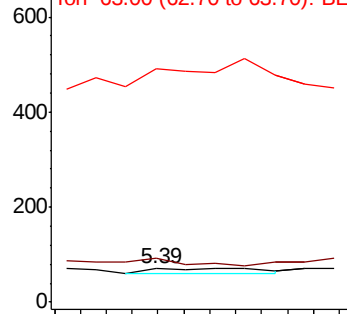
112 100

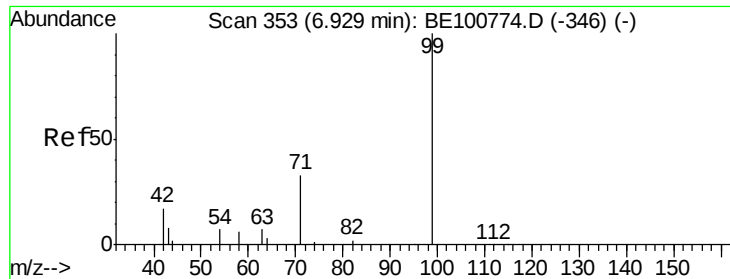
64 106.1 54.5 81.7#

63 0.0 116.1 174.1#



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: 0.558 ng

RT: 6.93 min Scan# 353

Delta R.T. 0.00 min

Lab File: BE100943.D

Acq: 17 Dec 2019 6:32

Instrument :

BNA_E

ClientSampleId :

BE-211-COMP-S

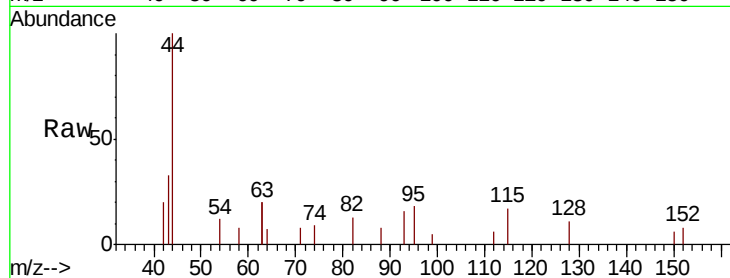
Tot Ion: 99 Resp: 12

Ion Ratio Lower Upper

99 100

42 0.0 18.2 27.2#

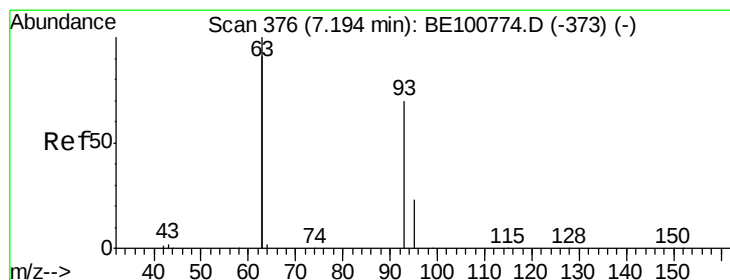
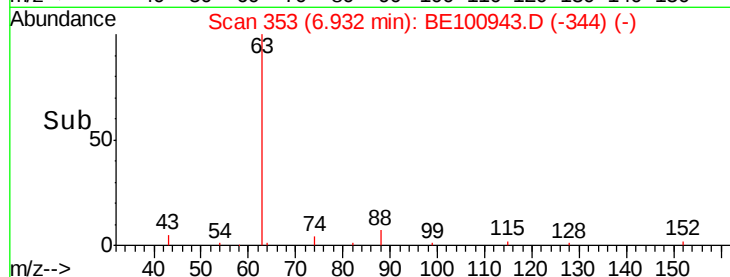
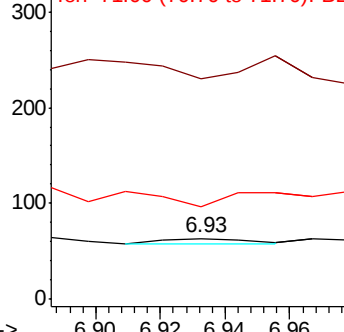
71 0.0 29.1 43.7#



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

bis(2-Chloroethyl)ether

Concen: 6.404 ng

RT: 7.27 min Scan# 382

Delta R.T. 0.08 min

Lab File: BE100943.D

Acq: 17 Dec 2019 6:32

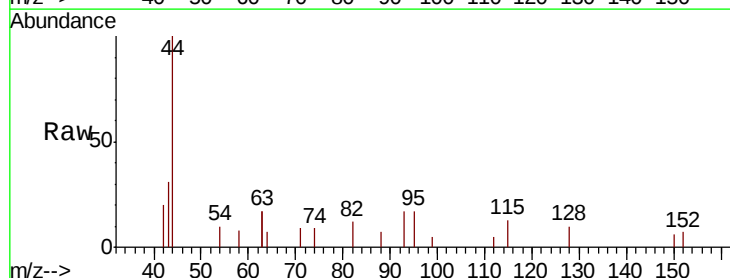
Tgt Ion: 93 Resp: 133

Ion Ratio Lower Upper

93 100

63 0.0 253.9 380.9#

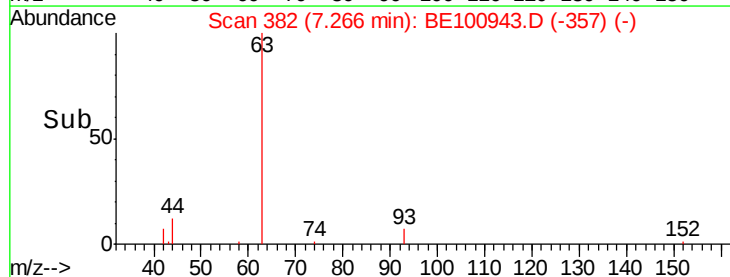
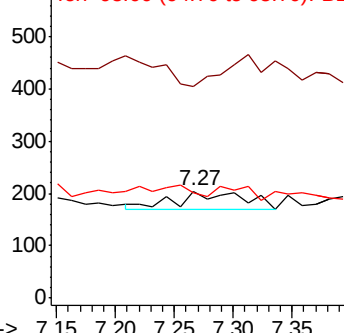
95 54.9 25.0 37.6#



Abundance Ion 93.00 (92.70 to 93.70): BE1

Ion 63.00 (62.70 to 63.70): BE1

Ion 95.00 (94.70 to 95.70): BE1





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.63 min Scan# 651

Delta R.T. 0.09 min

Lab File: BE100943.D

Acq: 17 Dec 2019 6:32

Instrument :

BNA_E

ClientSampleId :

BE-211-COMP-S

Tot Ion:136 Resp: 13

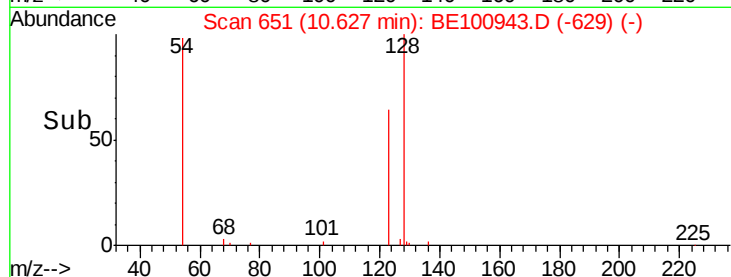
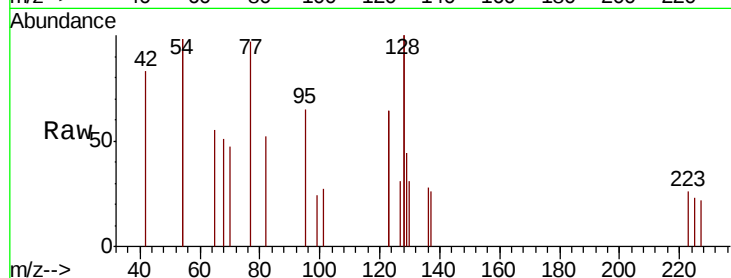
Ion Ratio Lower Upper

136 100

137 95.5 9.1 13.7#

54 710.4 18.9 28.3#

68 183.6 4.6 6.8#

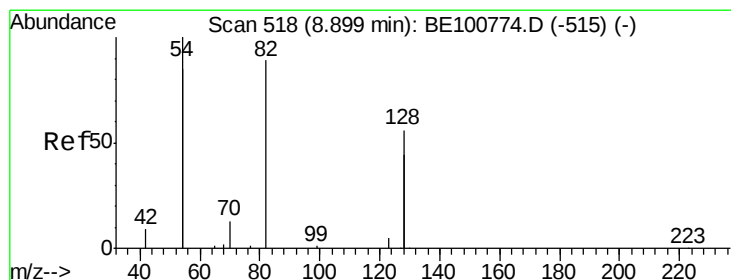
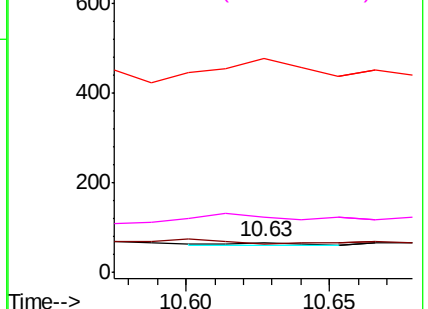


Abundance Ion 136.00 (135.70 to 136.70): E

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: 1.454 ng

RT: 8.96 min Scan# 523

Delta R.T. 0.06 min

Lab File: BE100943.D

Acq: 17 Dec 2019 6:32

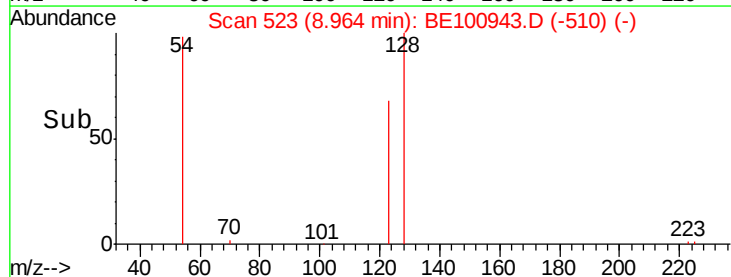
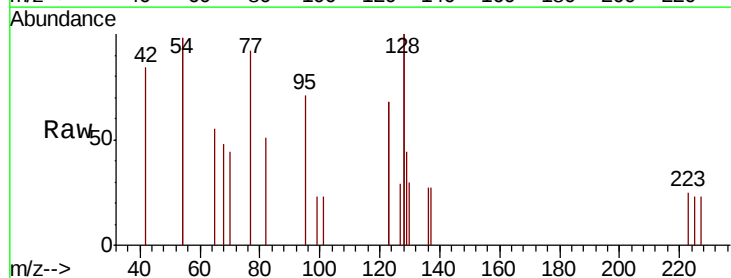
Tgt Ion: 82 Resp: 9

Ion Ratio Lower Upper

82 100

128 389.2 113.5 170.3#

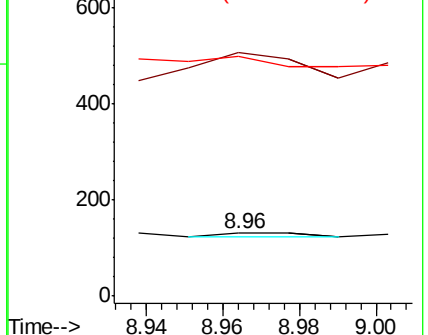
54 383.1 138.9 208.3#

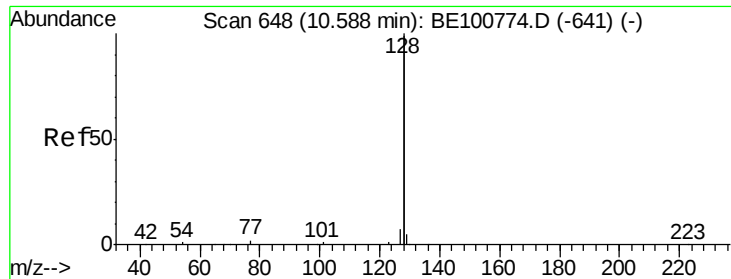


Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE1

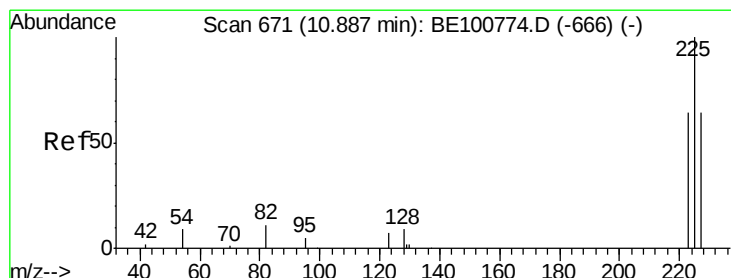
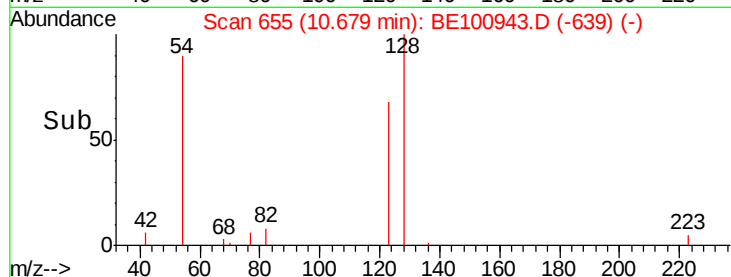
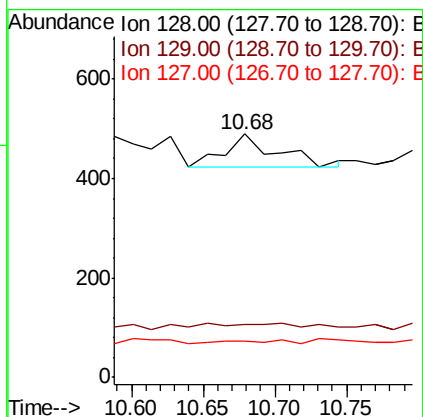
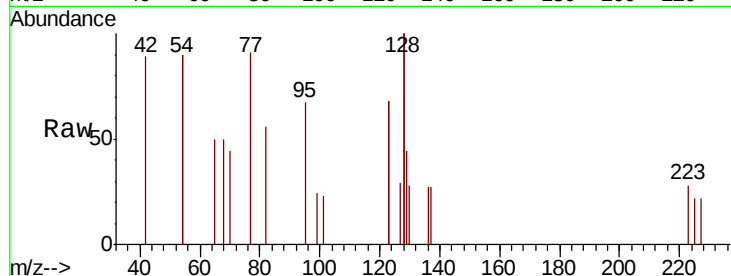




#9
Naphthalene
Concen: 1.187 ng
RT: 10.68 min Scan# 655
Delta R.T. 0.10 min
Lab File: BE100943.D
Acq: 17 Dec 2019 6:32

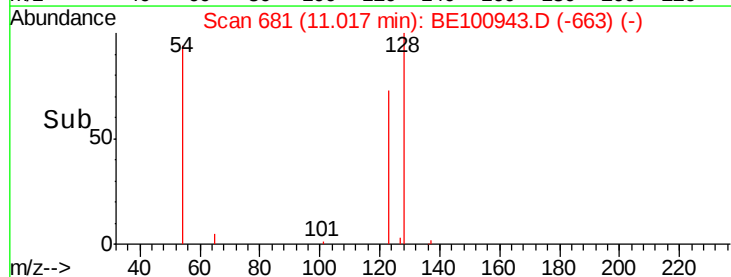
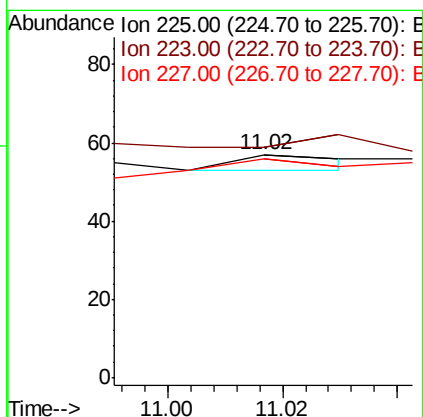
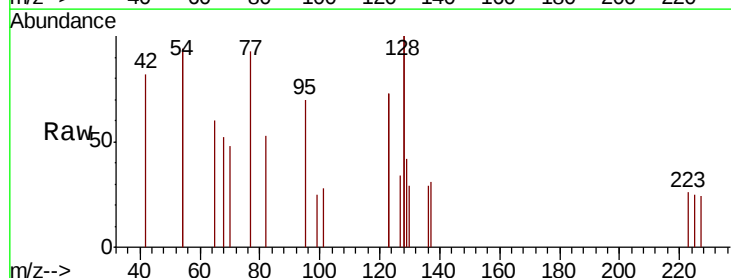
Instrument :
BNA_E
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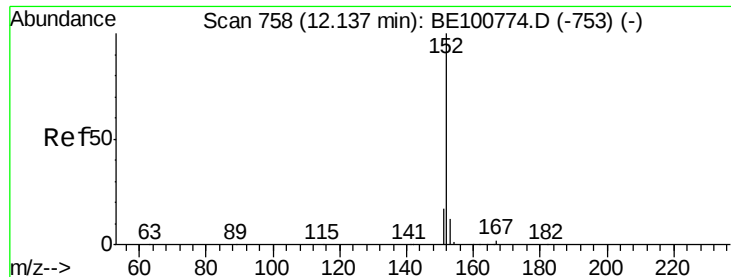
Tot Ion:128 Resp: 164
Ion Ratio Lower Upper
128 100
129 21.8 2.2 3.4#
127 14.7 2.8 4.2#



#10
Hexachlorobutadiene
Concen: 0.928 ng
RT: 11.02 min Scan# 681
Delta R.T. 0.13 min
Lab File: BE100943.D
Acq: 17 Dec 2019 6:32

Tgt Ion:225 Resp: 5
Ion Ratio Lower Upper
225 100
223 0.0 52.1 78.1#
227 160.0 51.1 76.7#

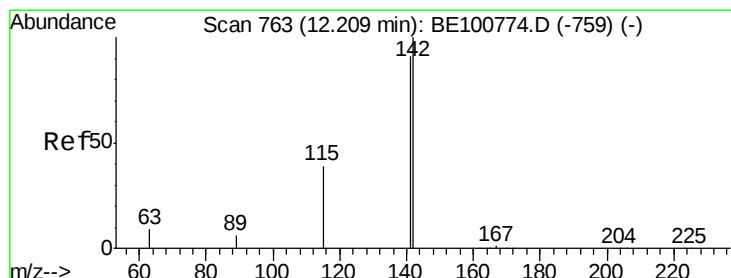
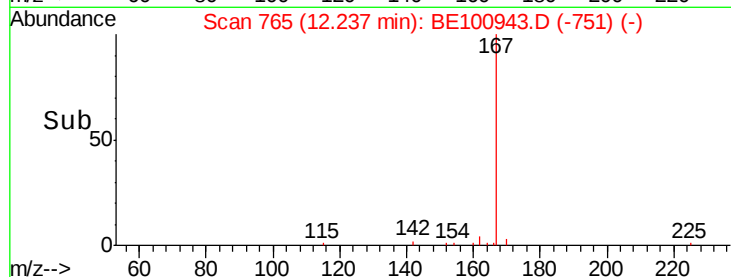
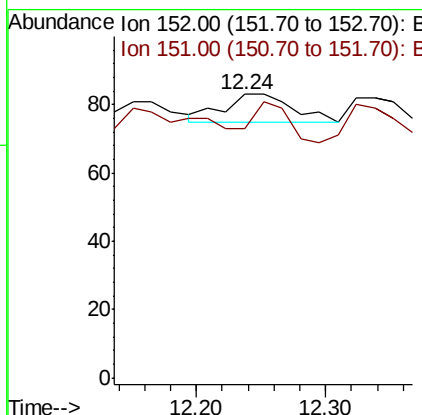
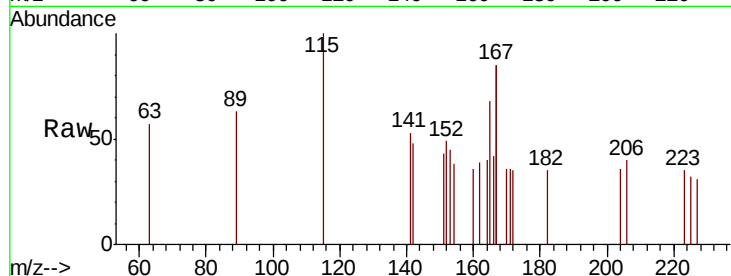




#11
2-Methylnaphthalene-d10
Concen: 1.539 ng
RT: 12.24 min Scan# 765
Delta R.T. 0.10 min
Lab File: BE100943.D
Acq: 17 Dec 2019 6:32

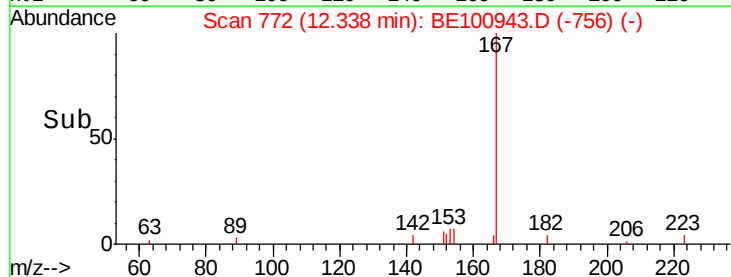
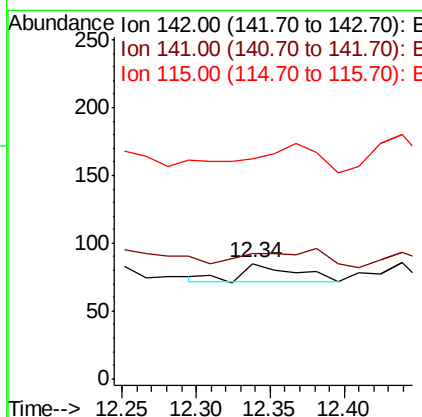
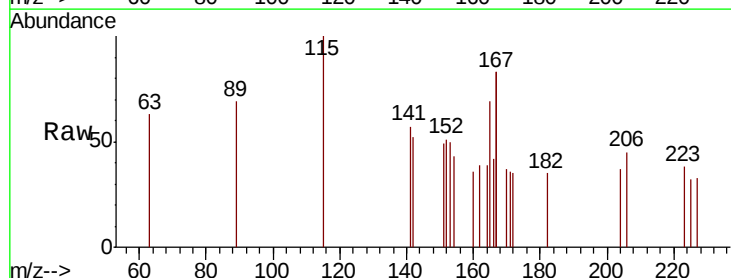
Instrument :
BNA_E
ClientSampleId :
BE-211-COMP-S

Tot Ion:152 Resp: 29
Ion Ratio Lower Upper
152 100
151 69.0 15.1 22.7#



#12
2-Methylnaphthalene
Concen: 1.484 ng
RT: 12.34 min Scan# 772
Delta R.T. 0.13 min
Lab File: BE100943.D
Acq: 17 Dec 2019 6:32

Tgt Ion:142 Resp: 32
Ion Ratio Lower Upper
142 100
141 108.2 68.9 103.3#
115 190.6 29.5 44.3#





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.48 min Scan# 921

Delta R.T. 0.10 min

Lab File: BE100943.D

Acq: 17 Dec 2019 6:32

Instrument :

BNA_E

ClientSampleId :

BE-211-COMP-S

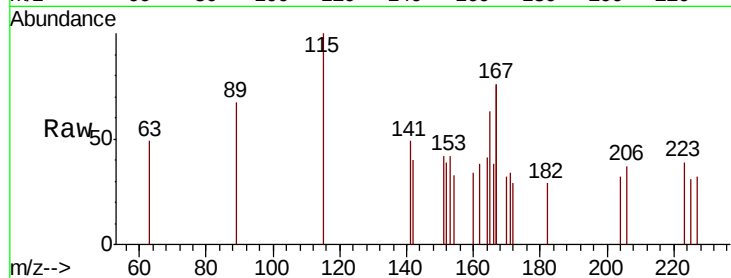
Tot Ion:164 Resp: 29

Ion Ratio Lower Upper

164 100

162 94.9 86.0 129.0

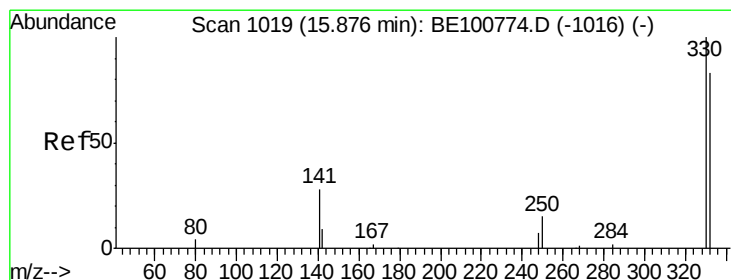
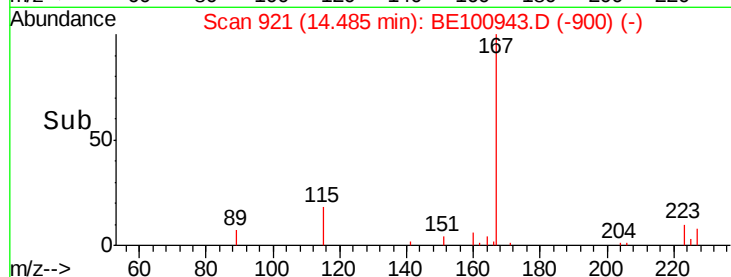
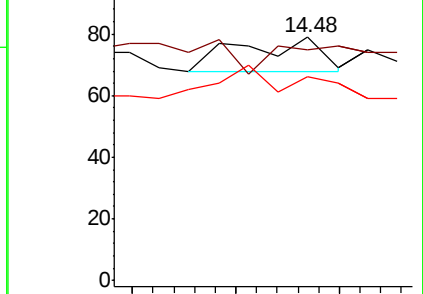
160 83.5 42.3 63.5#



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: 4.341 ng

RT: 16.02 min Scan# 1030

Delta R.T. 0.15 min

Lab File: BE100943.D

Acq: 17 Dec 2019 6:32

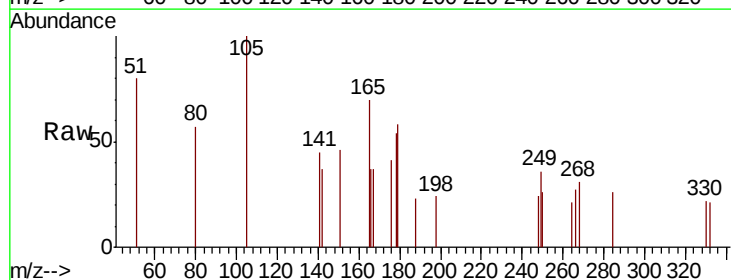
Tgt Ion:330 Resp: 14

Ion Ratio Lower Upper

330 100

332 100.0 74.1 111.1

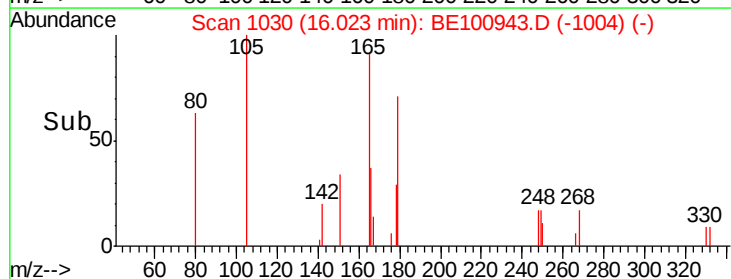
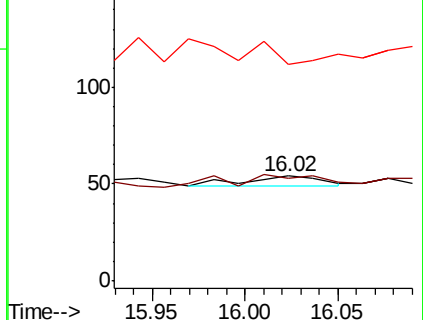
141 0.0 46.7 70.1#



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

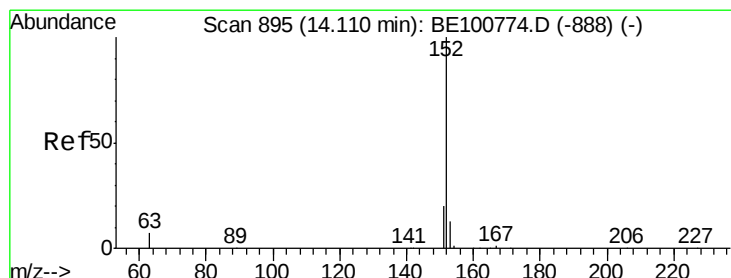
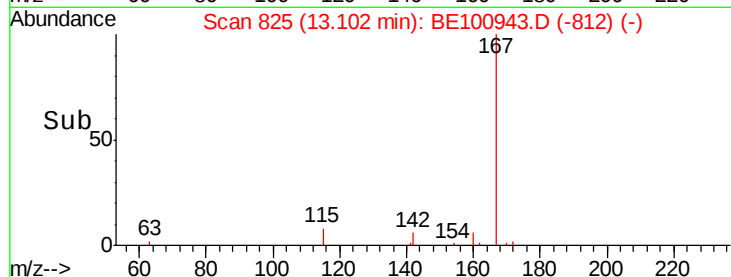
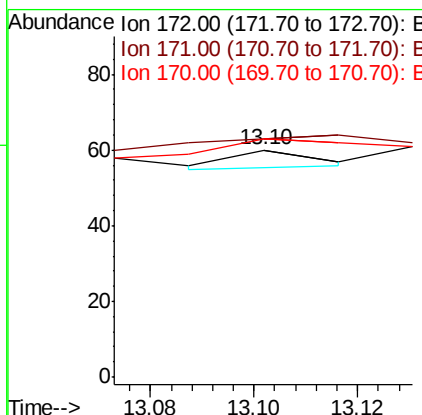
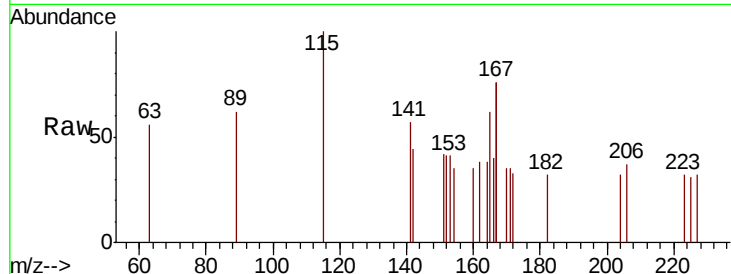




#15
2-Fluorobiphenyl
Concen: 0.043 ng
RT: 13.10 min Scan# 825
Delta R.T. 0.09 min
Lab File: BE100943.D
Acq: 17 Dec 2019 6:32

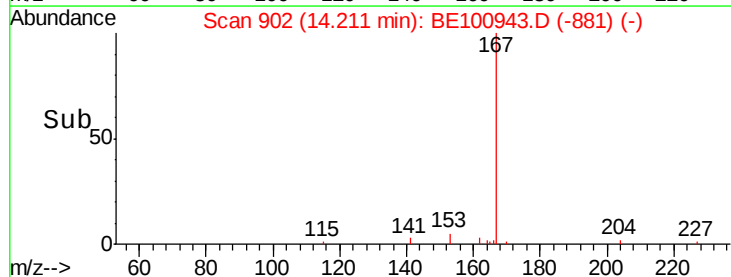
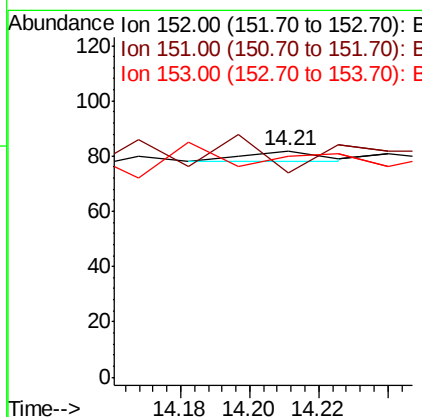
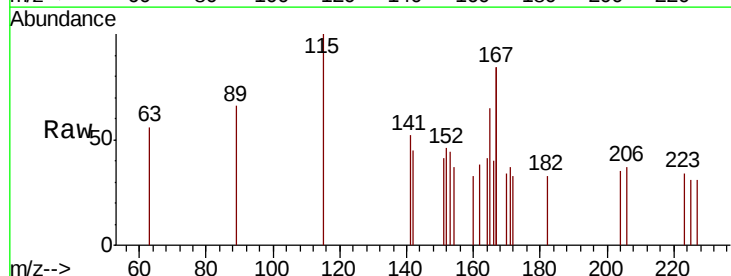
Instrument :
BNA_E
ClientSampleId :
BE-211-COMP-S

Tot Ion:172 Resp: 5
Ion Ratio Lower Upper
172 100
171 105.0 28.2 42.4#
170 105.0 19.4 29.0#



#16
Acenaphthylene
Concen: 0.050 ng
RT: 14.21 min Scan# 902
Delta R.T. 0.10 min
Lab File: BE100943.D
Acq: 17 Dec 2019 6:32

Tgt Ion:152 Resp: 6
Ion Ratio Lower Upper
152 100
151 0.0 15.9 23.9#
153 0.0 10.5 15.7#

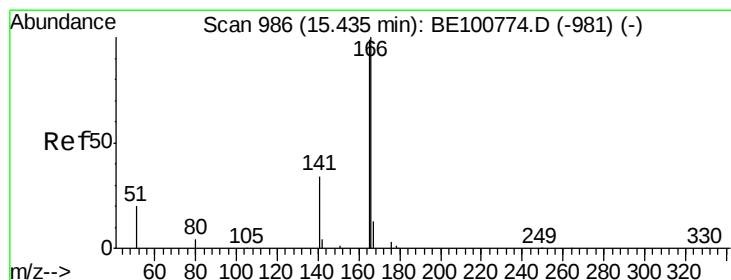
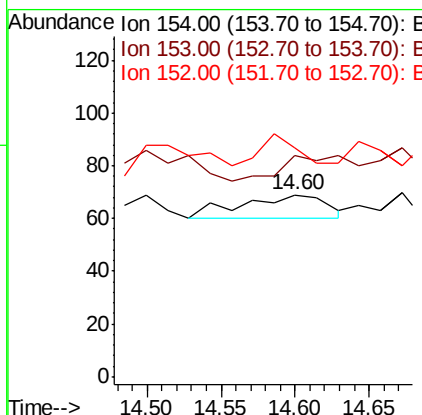
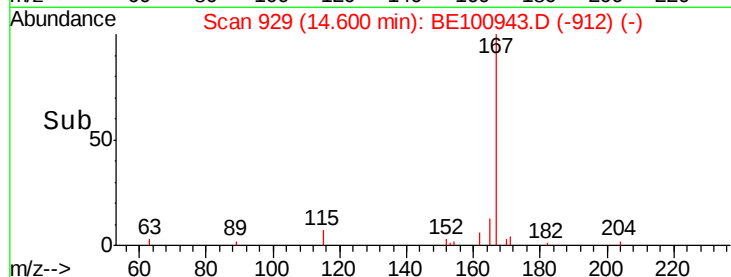
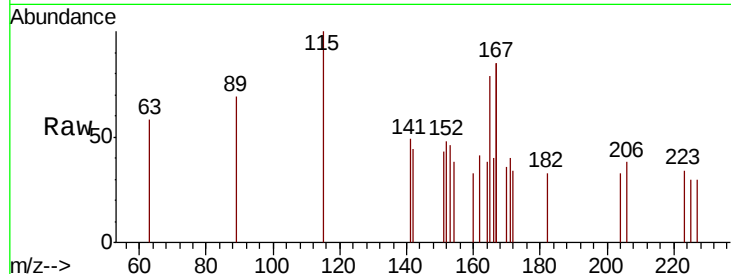




#17
Acenaphthene
Concen: 0.435 ng
RT: 14.60 min Scan# 929
Delta R.T. 0.14 min
Lab File: BE100943.D
Acq: 17 Dec 2019 6:32

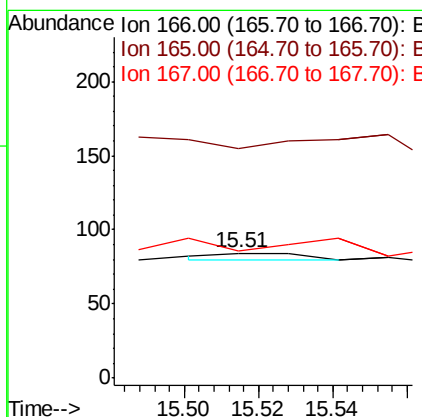
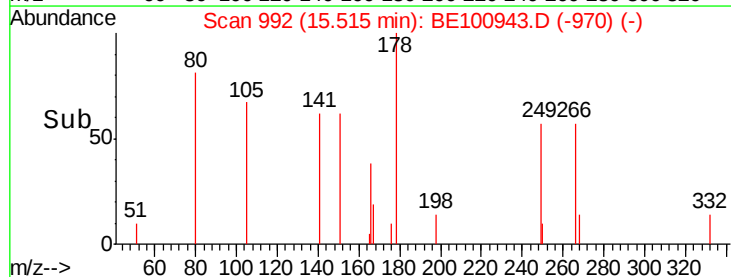
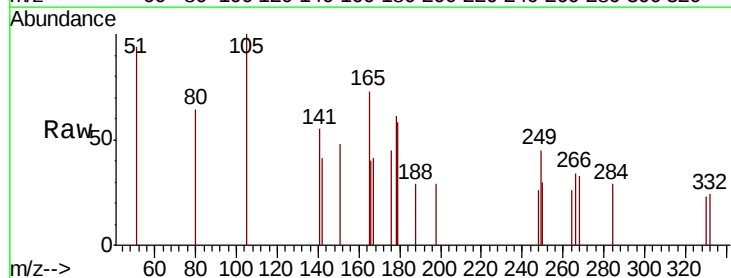
Instrument :
BNA_E
ClientSampleId :
BE-211-COMP-S

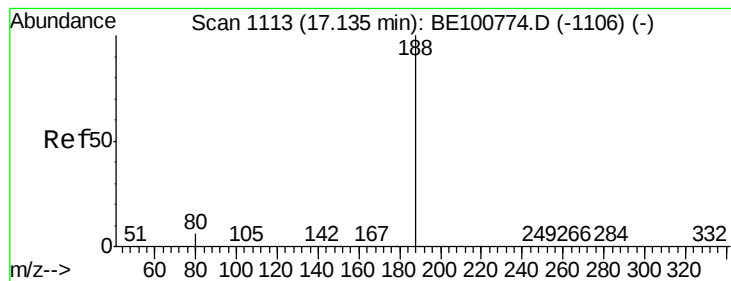
Tot Ion:154 Resp: 36
Ion Ratio Lower Upper
154 100
153 91.7 91.5 137.3
152 55.6 47.7 71.5



#18
Fluorene
Concen: 0.056 ng
RT: 15.51 min Scan# 992
Delta R.T. 0.09 min
Lab File: BE100943.D
Acq: 17 Dec 2019 6:32

Tgt Ion:166 Resp: 6
Ion Ratio Lower Upper
166 100
165 0.0 80.2 120.4#
167 166.7 10.6 16.0#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.21 min Scan# 1119

Delta R.T. 0.09 min

Lab File: BE100943.D

Acq: 17 Dec 2019 6:32

Instrument :

BNA_E

ClientSampleId :

BE-211-COMP-S

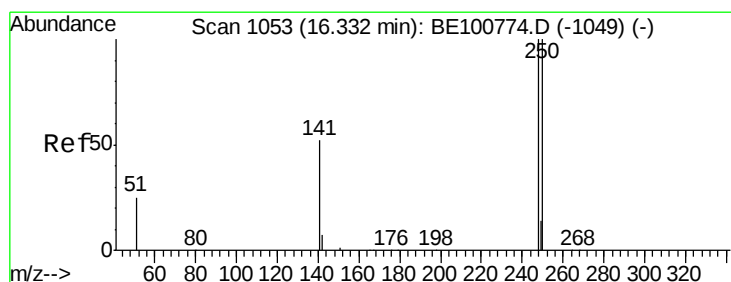
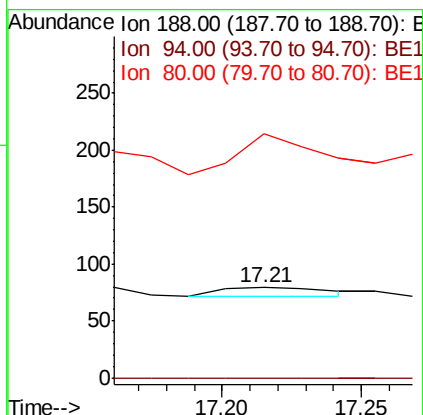
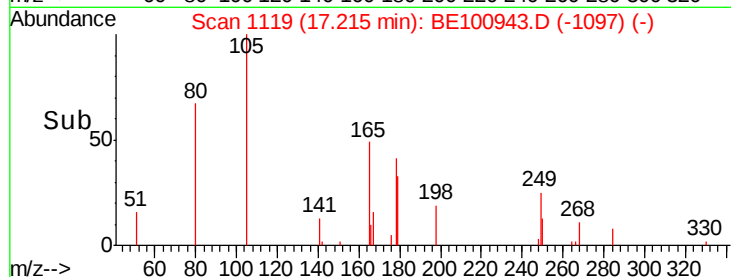
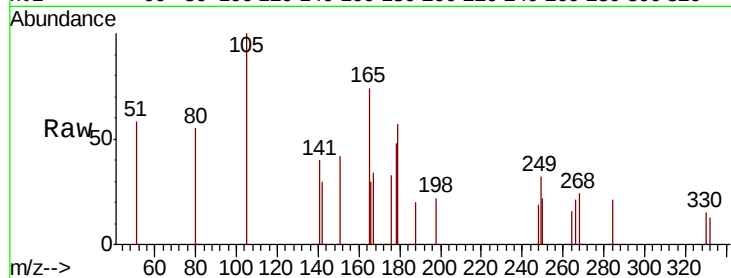
Tot Ion:188 Resp: 18

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 270.9 7.9 11.9#



#20

4-Bromophenyl-phenylether

Concen: 1.585 ng

RT: 16.38 min Scan# 1057

Delta R.T. 0.07 min

Lab File: BE100943.D

Acq: 17 Dec 2019 6:32

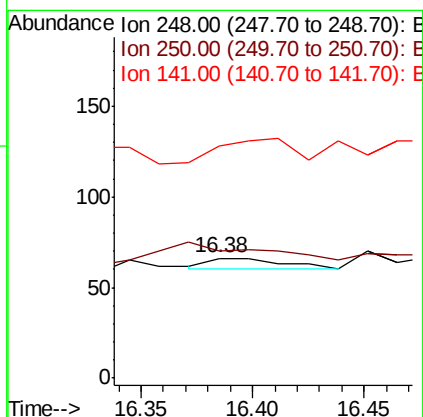
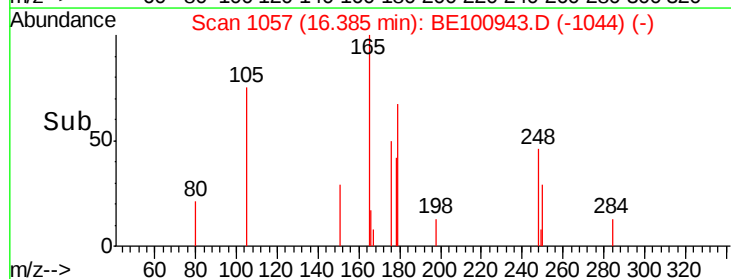
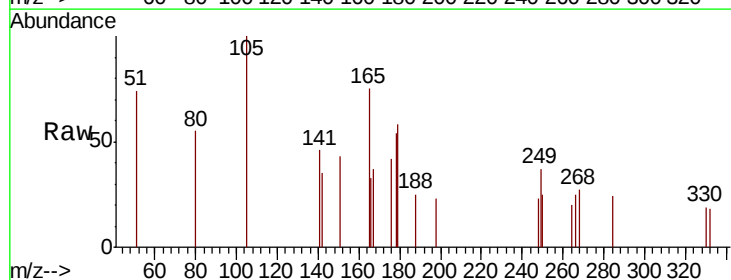
Tgt Ion:248 Resp: 14

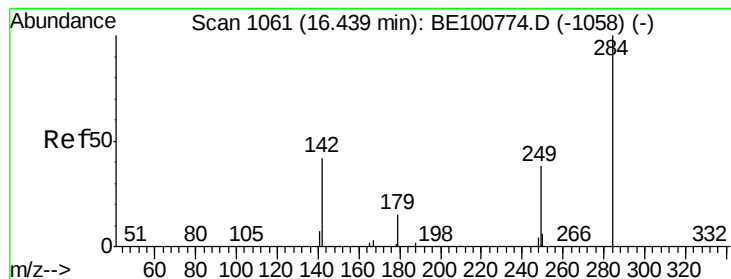
Ion Ratio Lower Upper

248 100

250 106.1 72.4 108.6

141 193.9 68.2 102.2#





#21

Hexachlorobenzene

Concen: 1.980 ng

RT: 16.53 min Scan# 1068

Delta R.T. 0.09 min

Lab File: BE100943.D

Acq: 17 Dec 2019 6:32

Instrument :

BNA_E

ClientSampleId :

BE-211-COMP-S

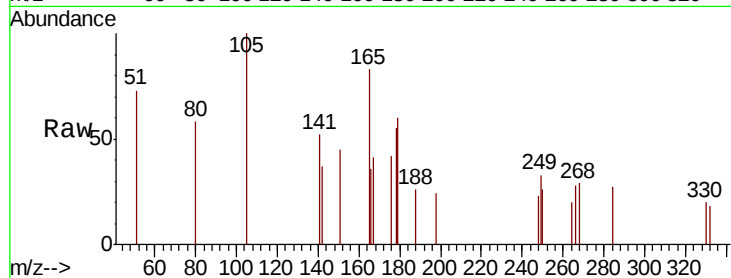
Tot Ion:284 Resp: 19

Ion Ratio Lower Upper

284 100

142 0.0 35.0 52.4#

249 0.0 28.1 42.1#



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

150

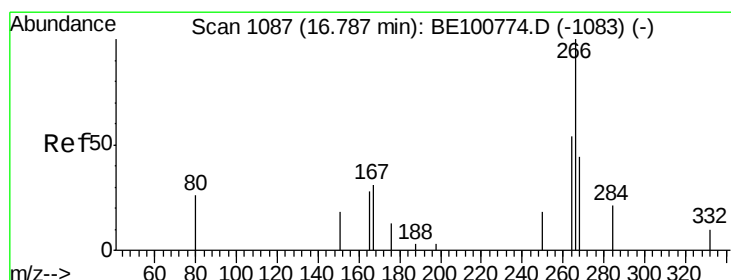
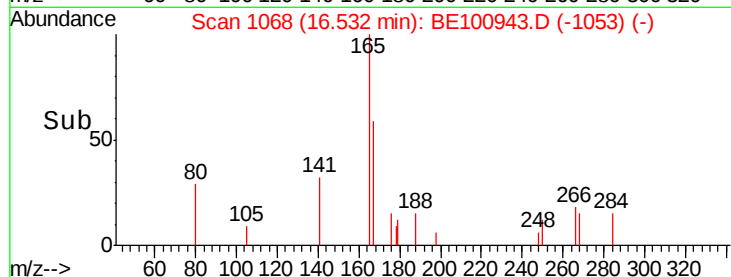
100

50

0

16.50 16.55

Time-->



#22

Pentachlorophenol

Concen: 21.097 ng

RT: 16.84 min Scan# 1091

Delta R.T. 0.05 min

Lab File: BE100943.D

Acq: 17 Dec 2019 6:32

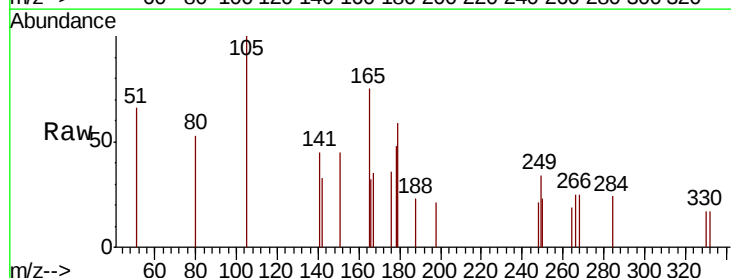
Tgt Ion:266 Resp: 14

Ion Ratio Lower Upper

266 100

264 76.3 55.1 82.7

268 100.0 50.7 76.1#



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

120

100

80

60

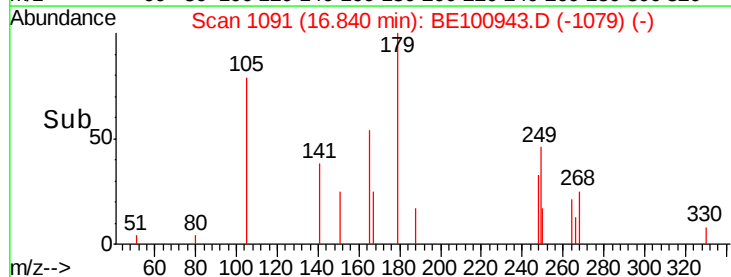
40

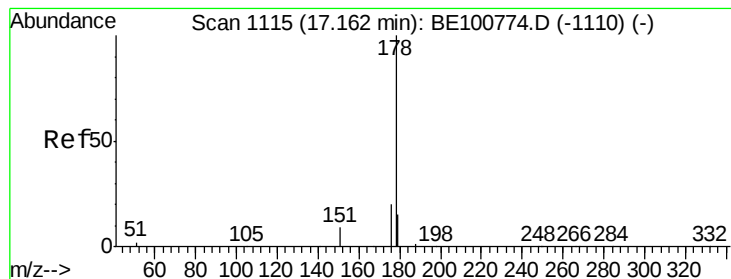
20

0

16.80 16.85

Time-->





#23

Phenanthrene

Concen: 1.504 ng

RT: 17.30 min Scan# 1125

Delta R.T. 0.13 min

Lab File: BE100943.D

Acq: 17 Dec 2019 6:32

Instrument :

BNA_E

ClientSampleId :

BE-211-COMP-S

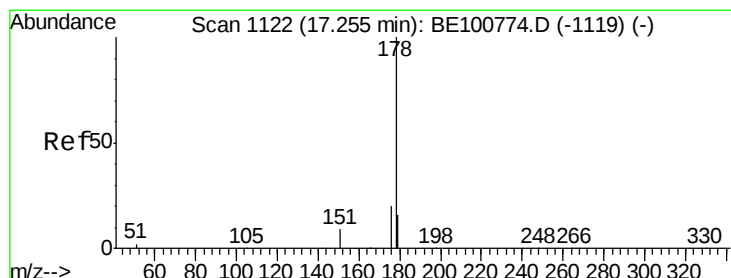
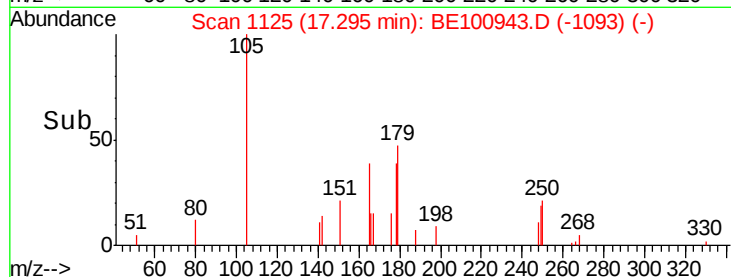
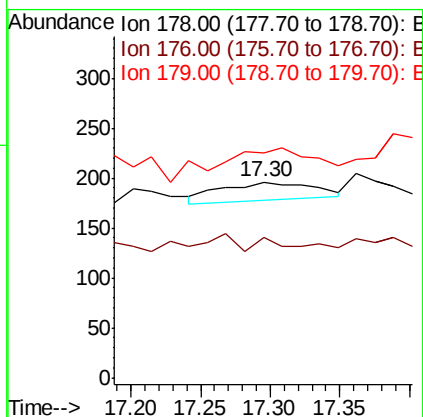
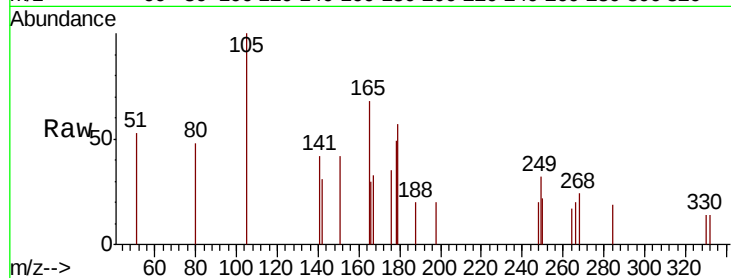
Tot Ion:178 Resp: 82

Ion Ratio Lower Upper

178 100

176 0.0 15.6 23.4#

179 207.3 11.9 17.9#



#24

Anthracene

Concen: 0.768 ng

RT: 17.36 min Scan# 1130

Delta R.T. 0.11 min

Lab File: BE100943.D

Acq: 17 Dec 2019 6:32

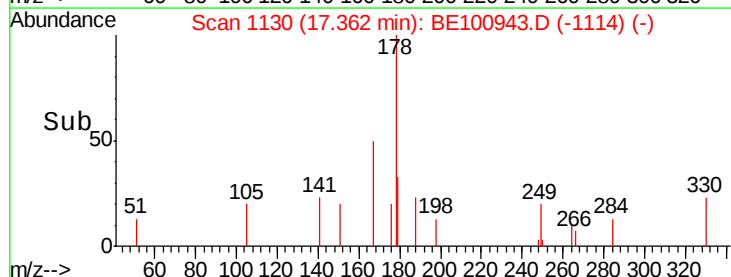
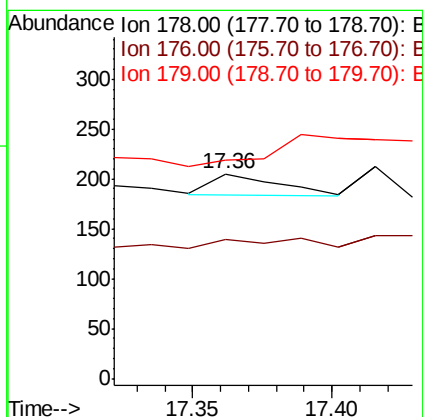
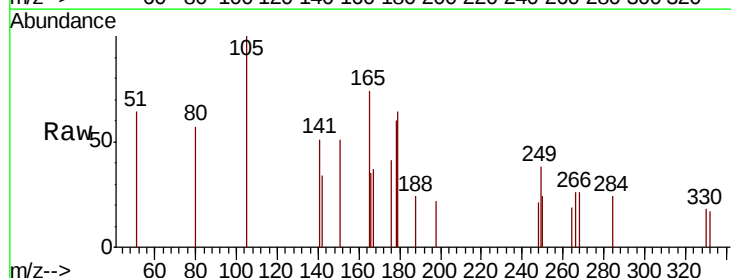
Tgt Ion:178 Resp: 35

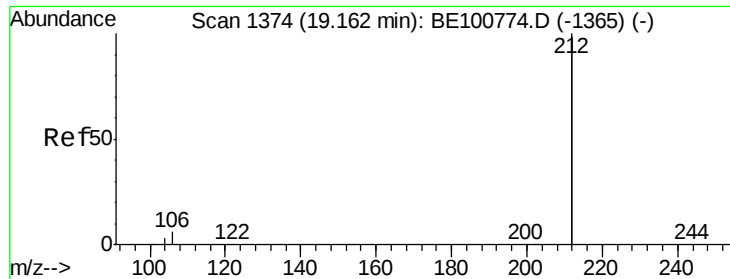
Ion Ratio Lower Upper

178 100

176 0.0 14.7 22.1#

179 0.0 12.2 18.4#

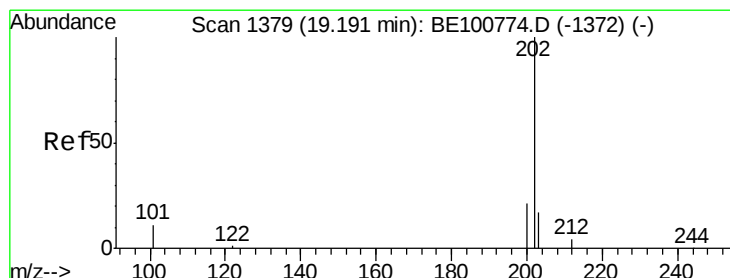
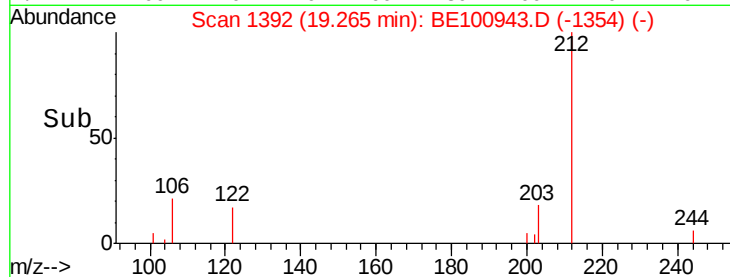
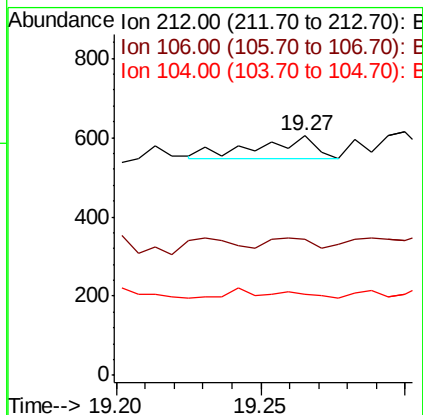
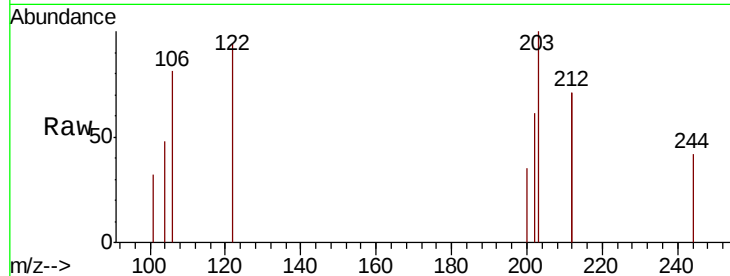




#25
 Fluoranthene-d10
 Concen: 0.371 ng
 RT: 19.27 min Scan# 1392
 Delta R.T. 0.12 min
 Lab File: BE100943.D
 Acq: 17 Dec 2019 6:32

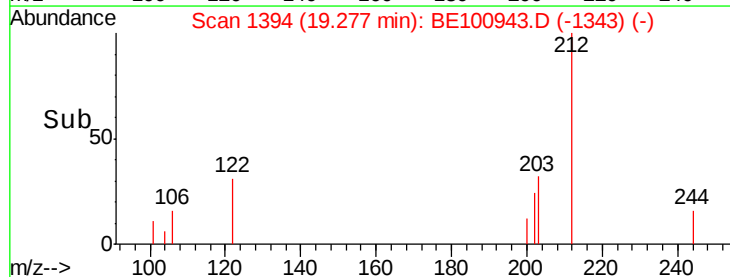
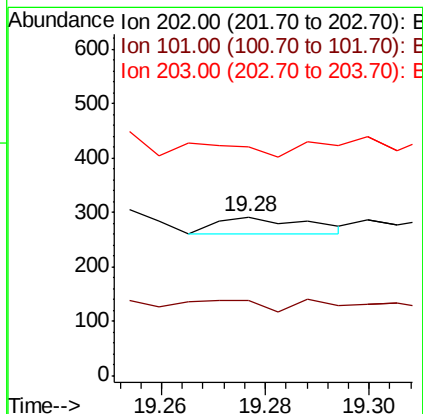
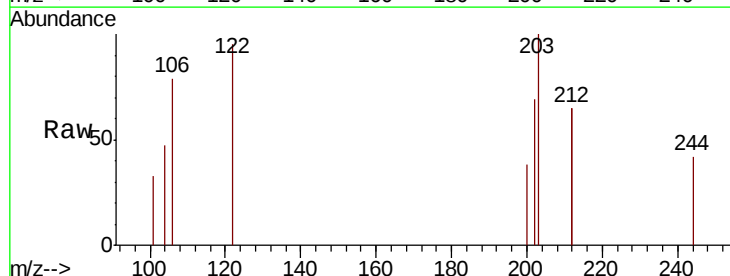
Instrument :
 BNA_E
 ClientSampleId :
 BE-211-COMP-S

Tot Ion:212 Resp: 79
 Ion Ratio Lower Upper
 212 100
 106 34.2 2.6 4.0#
 104 0.0 1.4 2.2#



#26
 Fluoranthene
 Concen: 0.584 ng
 RT: 19.28 min Scan# 1394
 Delta R.T. 0.09 min
 Lab File: BE100943.D
 Acq: 17 Dec 2019 6:32

Tgt Ion:202 Resp: 38
 Ion Ratio Lower Upper
 202 100
 101 55.3 9.4 14.0#
 203 0.0 13.7 20.5#

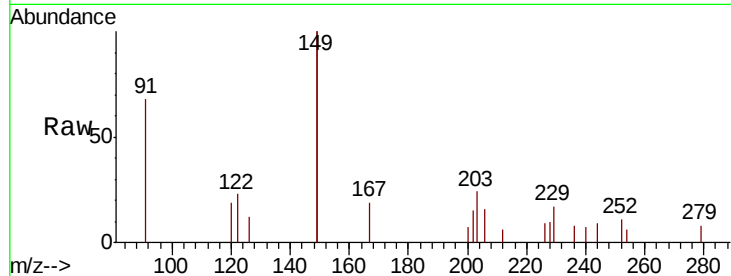




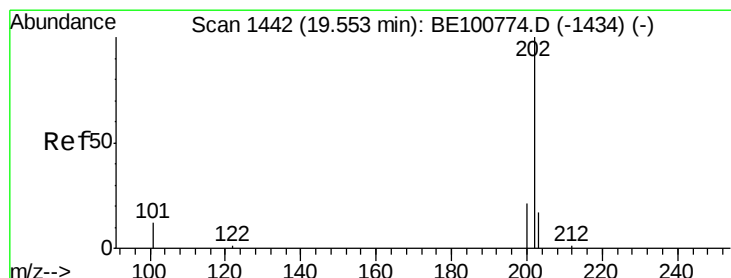
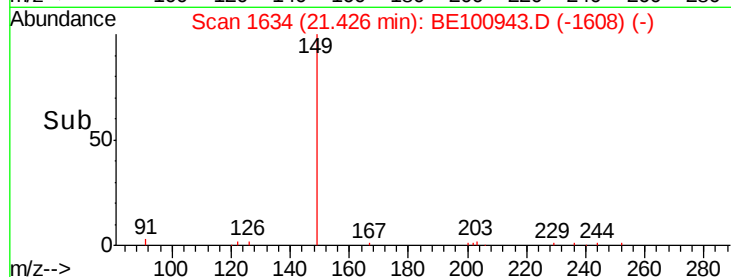
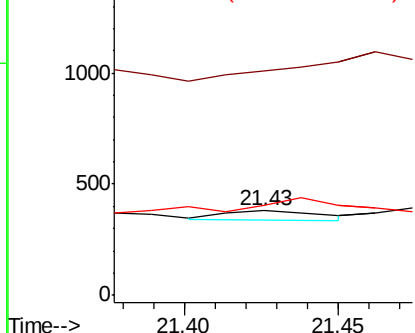
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.43 min Scan# 1634
Delta R.T. 0.12 min
Lab File: BE100943.D
Acq: 17 Dec 2019 6:32

Instrument :
BNA_E
ClientSampleId :
BE-211-COMP-S

Tot Ion:240 Resp: 97
Ion Ratio Lower Upper
240 100
120 264.3 4.0 6.0#
236 105.8 21.6 32.4#

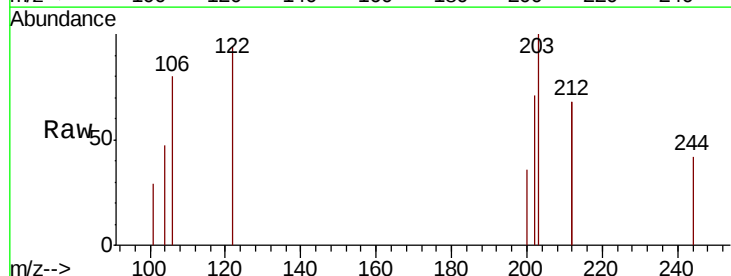


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

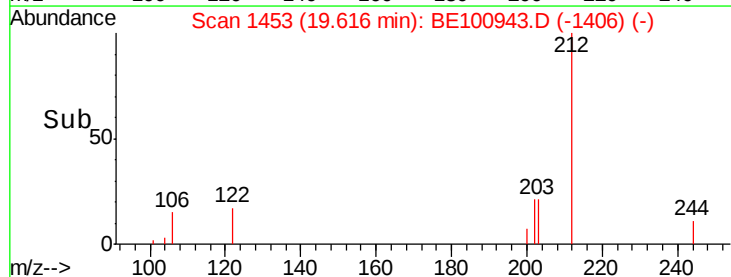
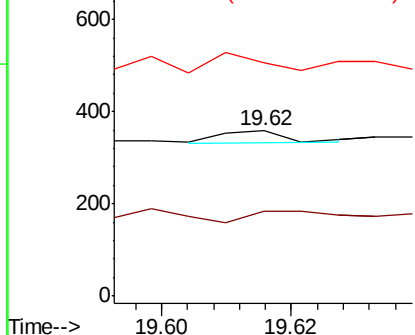


#28
Pyrene
Concen: 0.060 ng
RT: 19.62 min Scan# 1453
Delta R.T. 0.07 min
Lab File: BE100943.D
Acq: 17 Dec 2019 6:32

Tgt Ion:202 Resp: 19
Ion Ratio Lower Upper
202 100
200 147.4 17.0 25.4#
203 0.0 13.8 20.8#



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.039 ng

RT: 19.87 min Scan# 1498

Delta R.T. 0.12 min

Lab File: BE100943.D

Acq: 17 Dec 2019 6:32

Instrument :

BNA_E

ClientSampleId :

BE-211-COMP-S

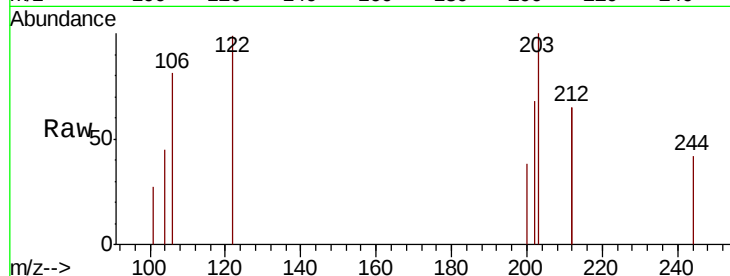
Tot Ion:244 Resp: 9

Ion Ratio Lower Upper

244 100

212 312.7 25.2 37.8#

122 237.6 8.9 13.3#

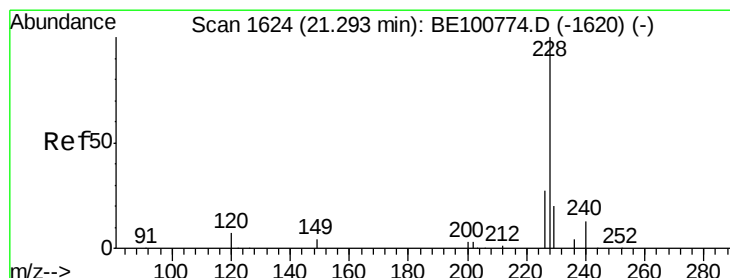
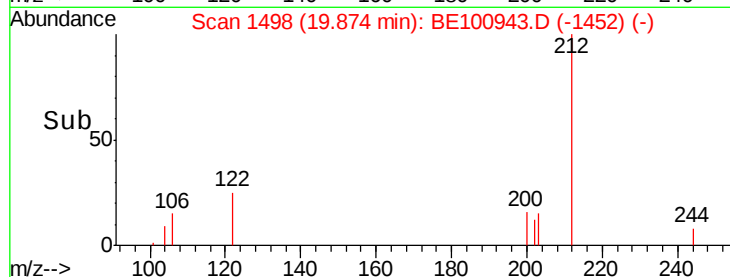
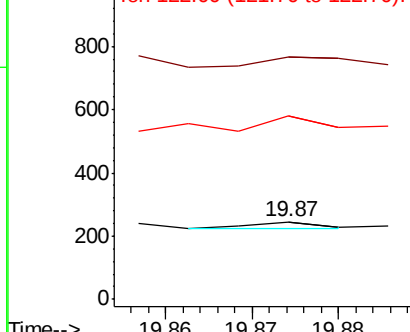


Abundance

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: 0.892 ng

RT: 21.44 min Scan# 1635

Delta R.T. 0.16 min

Lab File: BE100943.D

Acq: 17 Dec 2019 6:32

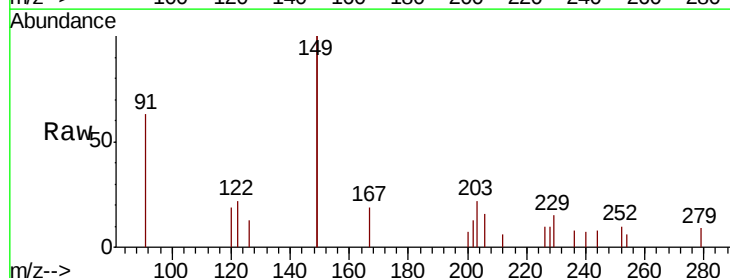
Tgt Ion:228 Resp: 255

Ion Ratio Lower Upper

228 100

226 97.6 21.4 32.0#

229 153.1 15.8 23.6#

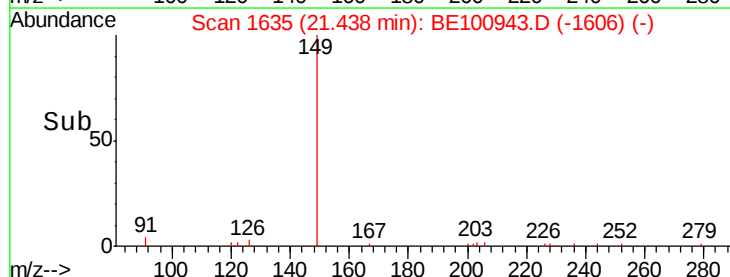
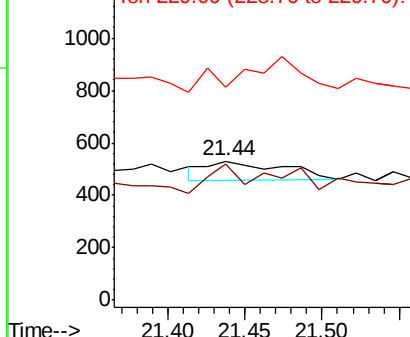


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.682 ng

RT: 21.44 min Scan# 1635

Delta R.T. 0.11 min

Lab File: BE100943.D

Acq: 17 Dec 2019 6:32

Instrument :

BNA_E

ClientSampleId :

BE-211-COMP-S

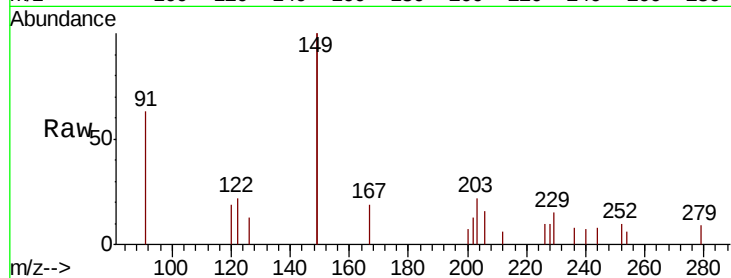
Tot Ion:228 Resp: 229

Ion Ratio Lower Upper

228 100

226 97.6 25.3 37.9#

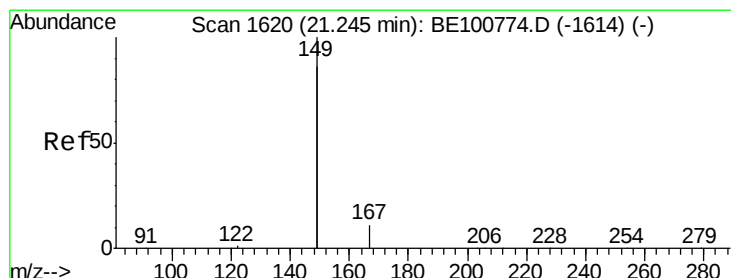
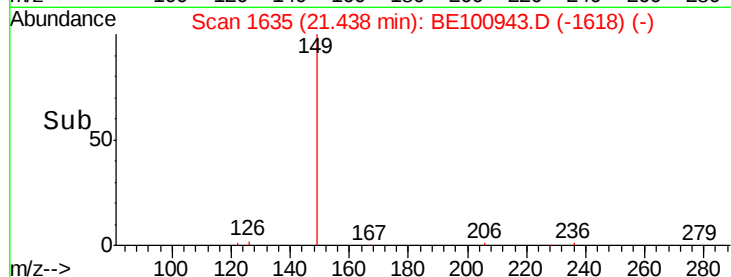
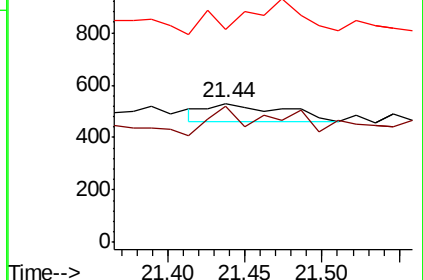
229 153.1 15.2 22.8#



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: 4.226 ng

RT: 21.34 min Scan# 1627

Delta R.T. 0.11 min

Lab File: BE100943.D

Acq: 17 Dec 2019 6:32

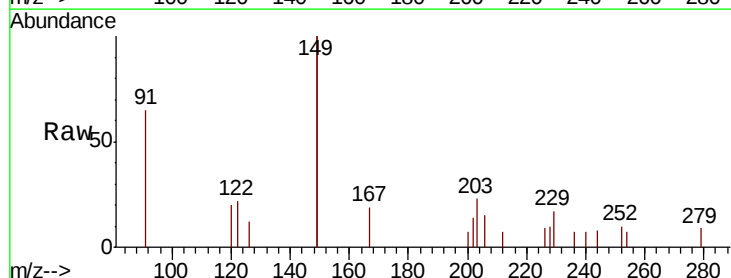
Tgt Ion:149 Resp: 1787

Ion Ratio Lower Upper

149 100

167 0.0 5.0 7.4#

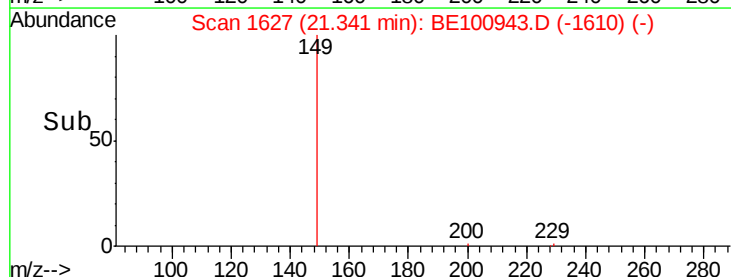
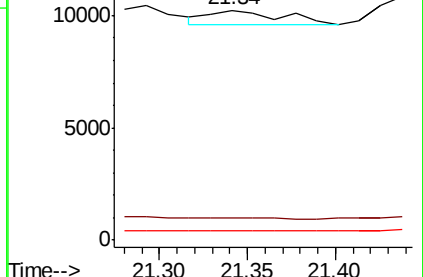
279 2.5 0.6 1.0#



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: 0.137 ng

RT: 26.45 min Scan# 2919

Delta R.T. 0.14 min

Lab File: BE100943.D

Acq: 17 Dec 2019 6:32

Instrument :

BNA_E

ClientSampleId :

BE-211-COMP-S

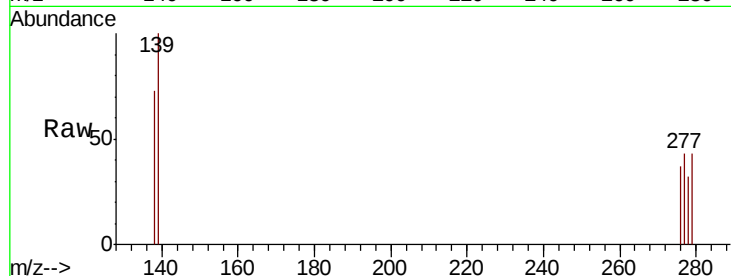
Tot Ion:276 Resp: 40

Ion Ratio Lower Upper

276 100

138 52.5 18.4 27.6#

277 45.0 19.4 29.2#



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

600

500

400

300

200

100

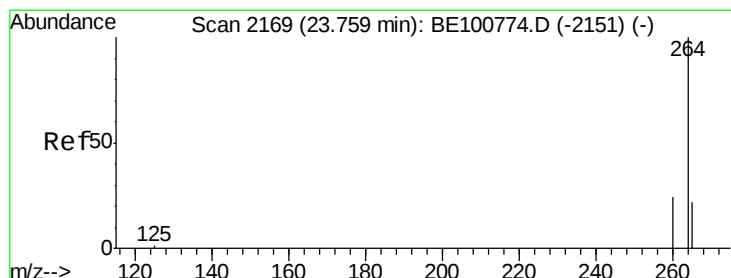
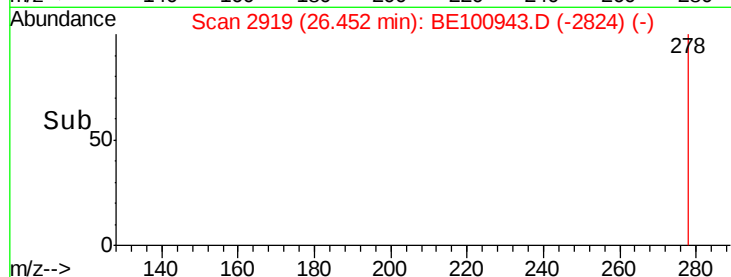
0

26.44

26.45

26.46

Time-->



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.87 min Scan# 2198

Delta R.T. 0.12 min

Lab File: BE100943.D

Acq: 17 Dec 2019 6:32

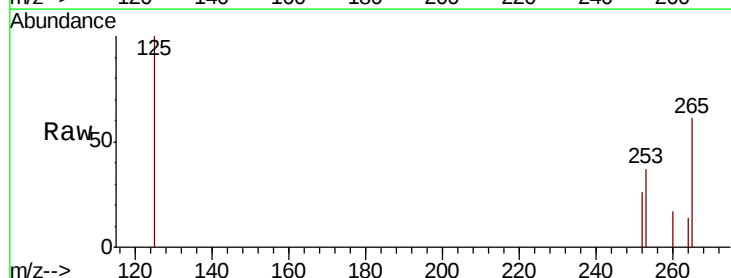
Tgt Ion:264 Resp: 16

Ion Ratio Lower Upper

264 100

260 122.3 19.4 29.0#

265 436.2 20.1 30.1#



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

1500

1000

500

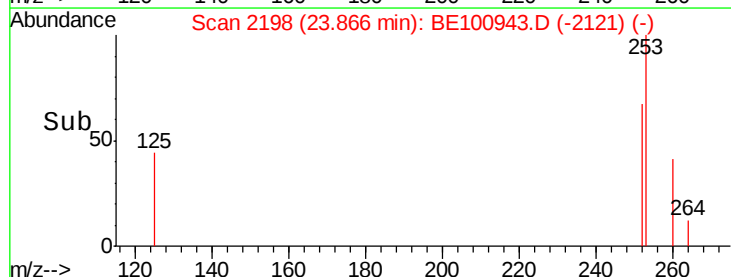
0

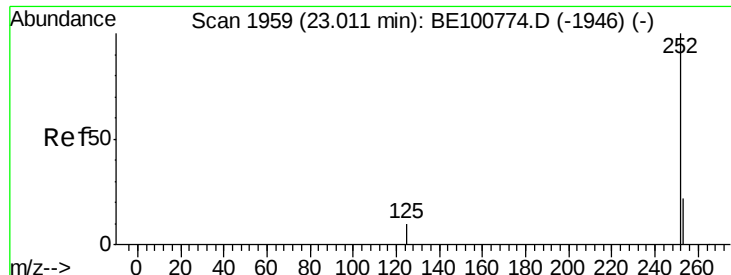
23.85

23.86

23.87

Time-->

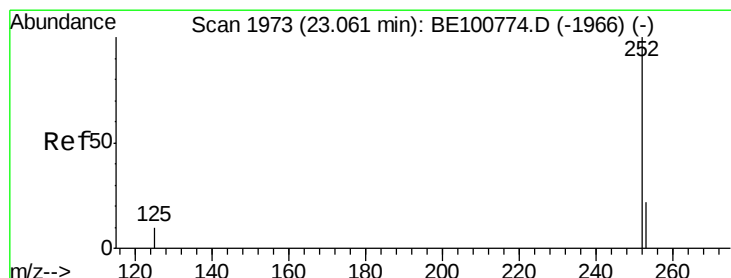
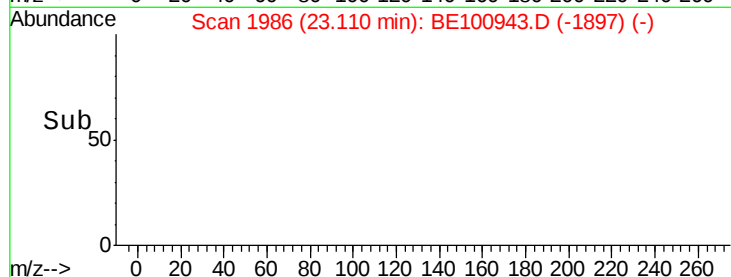
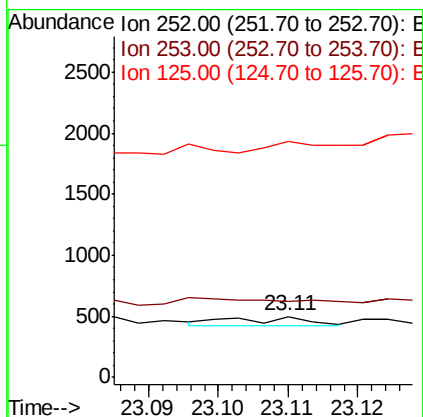
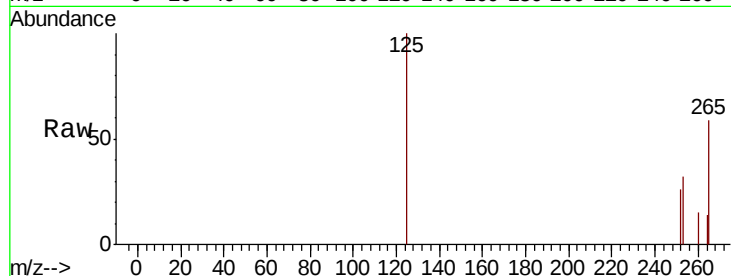




#35
Benzo(b)fluoranthene
Concen: 1.278 ng
RT: 23.11 min Scan# 1986
Delta R.T. 0.12 min
Lab File: BE100943.D
Acq: 17 Dec 2019 6:32

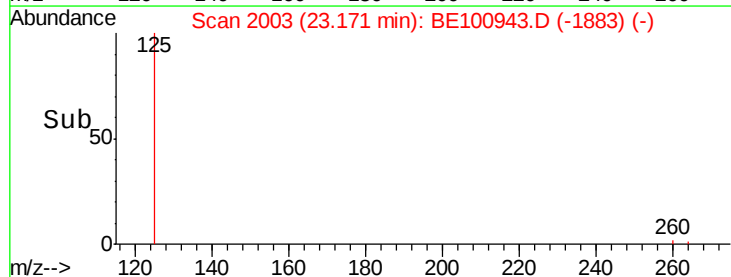
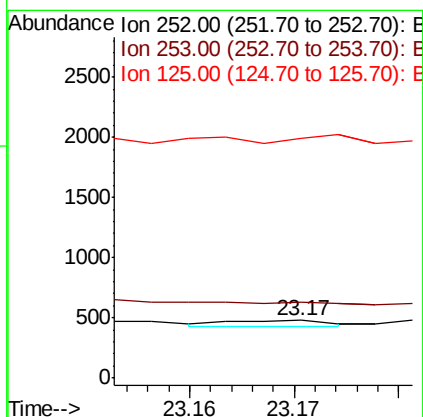
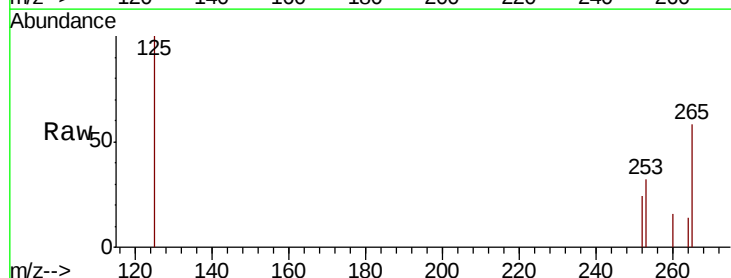
Instrument :
BNA_E
ClientSampleId :
BE-211-COMP-S

Tot Ion:252 Resp: 56
Ion Ratio Lower Upper
252 100
253 124.9 17.8 26.6#
125 388.9 8.3 12.5#



#36
Benzo(k)fluoranthene
Concen: 0.692 ng
RT: 23.17 min Scan# 2003
Delta R.T. 0.13 min
Lab File: BE100943.D
Acq: 17 Dec 2019 6:32

Tgt Ion:252 Resp: 34
Ion Ratio Lower Upper
252 100
253 131.9 17.8 26.6#
125 418.0 9.4 14.0#





#37

Benzo(a)pyrene

Concen: 0.369 ng

RT: 23.77 min Scan# 2172

Delta R.T. 0.14 min

Lab File: BE100943.D

Acq: 17 Dec 2019 6:32

Instrument :

BNA_E

ClientSampleId :

BE-211-COMP-S

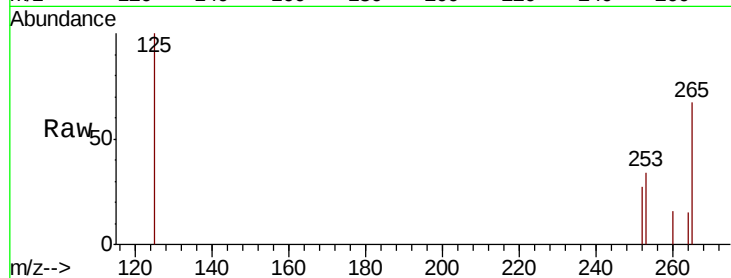
Tot Ion:252 Resp: 14

Ion Ratio Lower Upper

252 100

253 124.4 17.8 26.8#

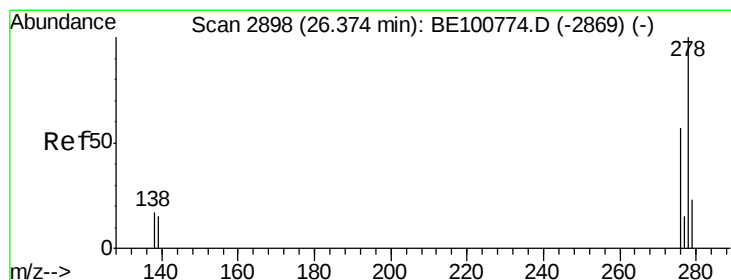
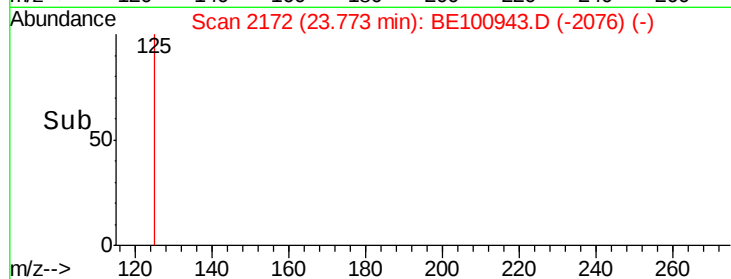
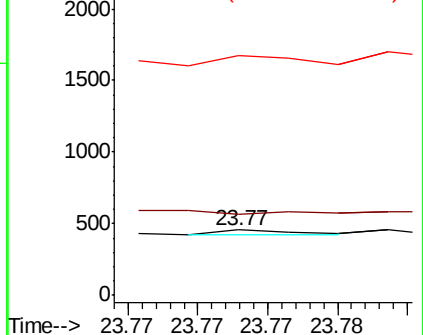
125 367.9 9.9 14.9#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#38

Dibenzo(a,h)anthracene

Concen: 0.212 ng

RT: 26.49 min Scan# 2929

Delta R.T. 0.15 min

Lab File: BE100943.D

Acq: 17 Dec 2019 6:32

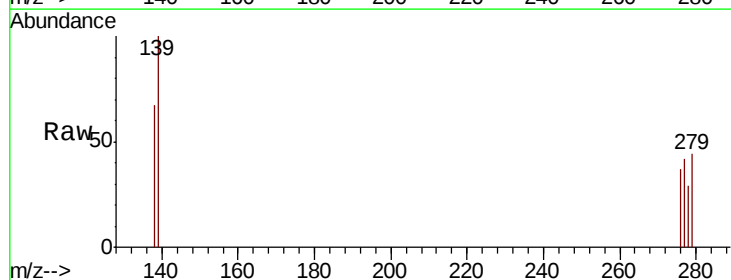
Tgt Ion:278 Resp: 8

Ion Ratio Lower Upper

278 100

139 339.2 13.8 20.6#

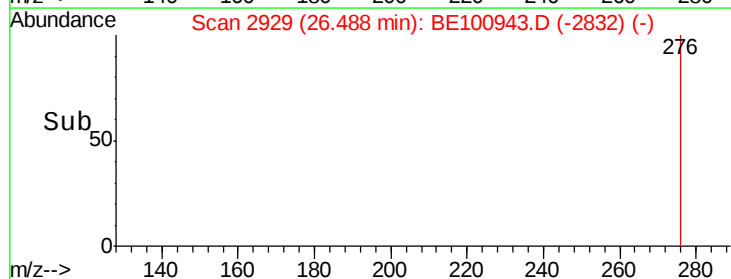
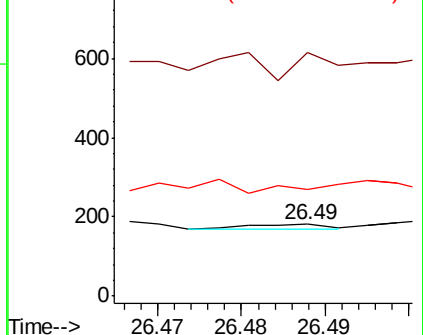
279 148.6 19.8 29.6#



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(a,h,i)perylene

Concen: 0.471 ng

RT: 27.23 min Scan# 3137

Delta R.T. 0.13 min

Lab File: BE100943.D

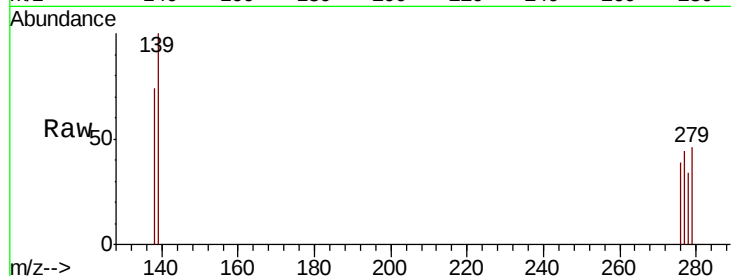
Acq: 17 Dec 2019 6:32

Instrument :

BNA_E

ClientSampleId :

BE-211-COMP-S



Tot Ion: 276 Resp: 19

Ion Ratio Lower Upper

276 100

277 112.1 19.7 29.5#

138 187.4 18.0 27.0#

