

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE070519\
 Data File : BE100402.D
 Acq On : 6 Jul 2019 4:19
 Operator : JU/SJ
 Sample : K3561-05
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-016-SW099-062519

Quant Time: Jul 06 05:40:50 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	609	0.40	ng	-0.01
7) Naphthalene-d8	10.42	136	2073	0.40	ng	-0.03
13) Acenaphthene-d10	14.30	164	1562	0.40	ng	-0.01
19) Phenanthrene-d10	17.04	188	4738	0.40	ng	-0.01
27) Chrysene-d12	21.23	240	5891	0.40	ng	-0.01
34) Perylene-d12	23.65	264	7568	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.20	112	311	0.20	ng	-0.01
5) Phenol-d6	6.83	99	422	0.21	ng	-0.01
8) Nitrobenzene-d5	8.82	82	397	0.19	ng	0.00
11) 2-Methylnaphthalene-d10	12.04	152	776	0.20	ng	-0.01
14) 2,4,6-Tribromophenol	15.81	330	166	0.15	ng	-0.01
15) 2-Fluorobiphenyl	12.93	172	1321	0.22	ng	-0.01
25) Fluoranthene-d10	19.08	212	13082	0.19	ng	-0.02
29) Terphenyl-d14	19.68	244	2785	0.23	ng	-0.02

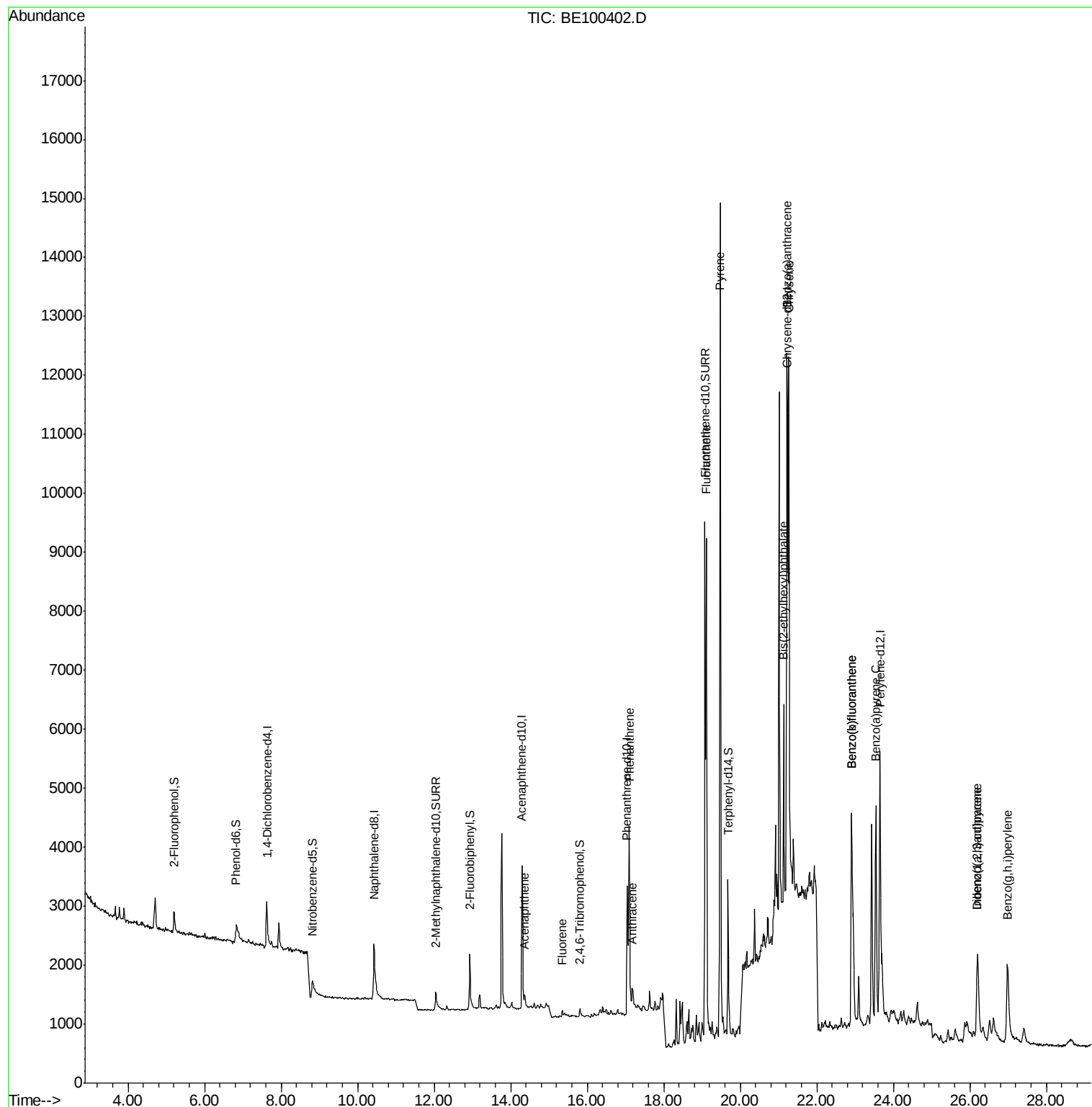
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
17) Acenaphthene	14.36	154	115	0.027	ng	# 90
18) Fluorene	15.35	166	127	0.020	ng	# 94
23) Phenanthrene	17.09	178	4454	0.388	ng	# 97
24) Anthracene	17.19	178	569	0.055	ng	# 90
26) Fluoranthene	19.11	202	8621	0.471	ng	# 98
28) Pyrene	19.48	202	15301	0.981	ng	# 94
30) Benzo(a)anthracene	21.22	228	7407	0.382	ng	# 92
31) Chrysene	21.27	228	8381	0.431	ng	# 94
32) Bis(2-ethylhexyl)phthalate	21.14	149	3258	0.061	ng	# 98
33) Indeno(1,2,3-cd)pyrene	26.20	276	3446	0.134	ng	# 93
35) Benzo(b)fluoranthene	22.91	252	7273	0.354	ng	# 94
36) Benzo(k)fluoranthene	22.91	252	7273	0.318	ng	# 89
37) Benzo(a)pyrene	23.55	252	6415	0.312	ng	# 95
38) Dibenzo(a,h)anthracene	26.21	278	859	0.040	ng	# 43
39) Benzo(g,h,i)perylene	26.98	276	4350	0.197	ng	# 90

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

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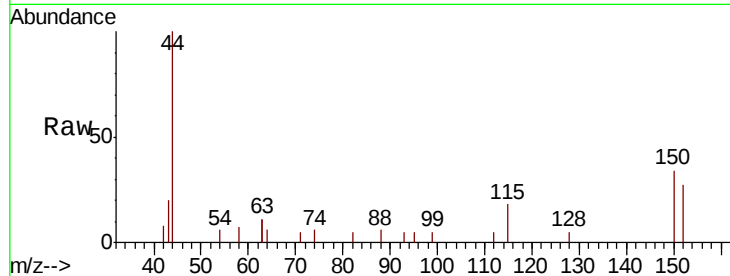


#1

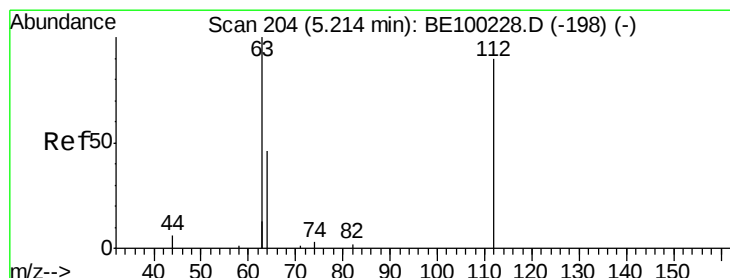
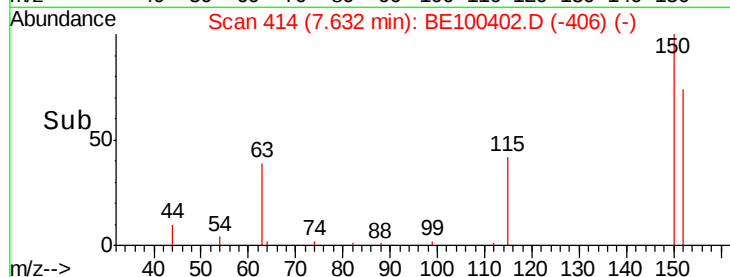
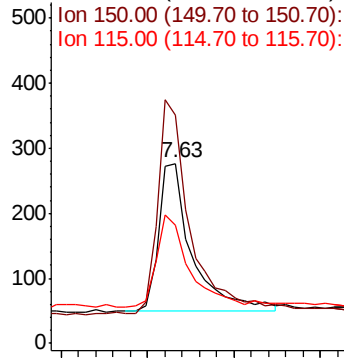
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.63 min Scan# 414
Delta R.T. -0.01 min
Lab File: BE100402.D
Acq: 6 Jul 2019 4:19

Instrument :
BNA_E
ClientSampleId :
EXT-016-SW099-062519

Tgt Ion:152 Resp: 609
Ion Ratio Lower Upper
152 100
150 126.7 114.5 171.7
115 65.7 57.1 85.7



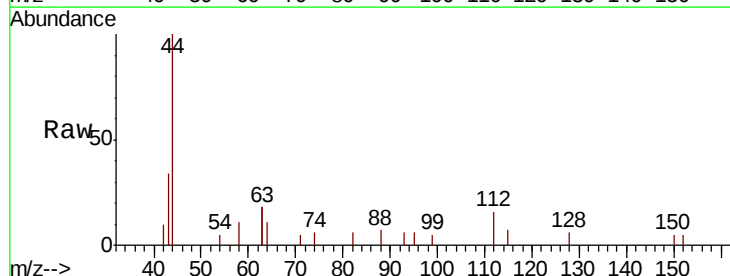
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



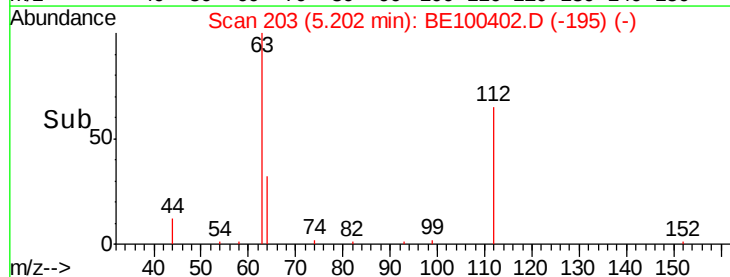
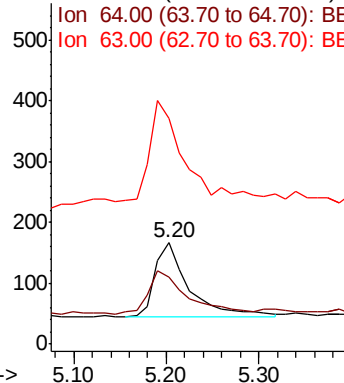
#4

2-Fluorophenol
Concen: 0.200 ng
RT: 5.20 min Scan# 203
Delta R.T. -0.01 min
Lab File: BE100402.D
Acq: 6 Jul 2019 4:19

Tgt Ion:112 Resp: 311
Ion Ratio Lower Upper
112 100
64 65.0 39.4 59.0#
63 138.3 104.5 156.7



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: 0.207 ng

RT: 6.83 min Scan# 344

Delta R.T. -0.01 min

Lab File: BE100402.D

Acq: 6 Jul 2019 4:19

Instrument :

BNA_E

ClientSampleId :

EXT-016-SW099-062519

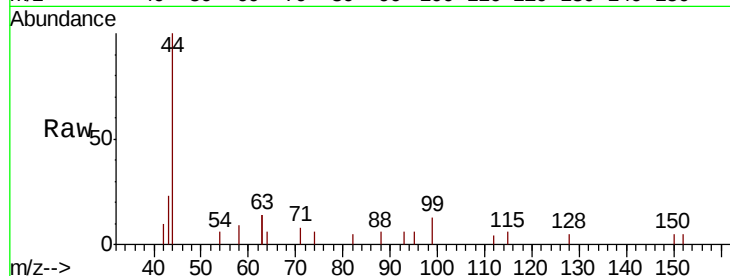
Tgt Ion: 99 Resp: 422

Ion Ratio Lower Upper

99 100

42 0.0 11.2 16.8#

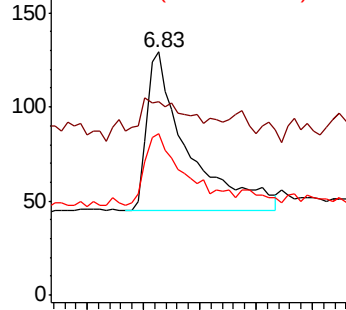
71 43.4 37.2 55.8



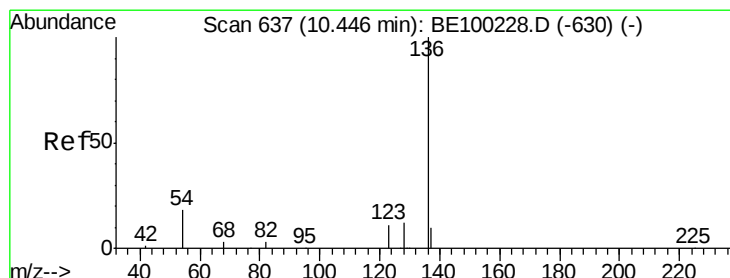
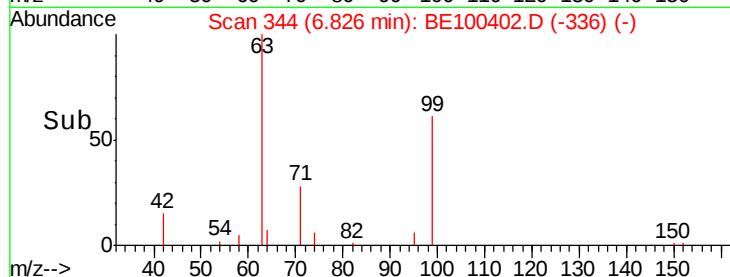
Abundance Ion 99.00 (98.70 to 99.70): BE1

Ion 42.00 (41.70 to 42.70): BE1

Ion 71.00 (70.70 to 71.70): BE1



Time-->



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.42 min Scan# 635

Delta R.T. -0.03 min

Lab File: BE100402.D

Acq: 6 Jul 2019 4:19

Tgt Ion: 136 Resp: 2073

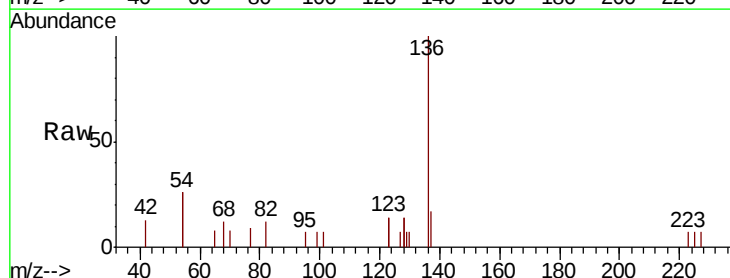
Ion Ratio Lower Upper

136 100

137 16.9 11.8 17.8

54 51.5 27.7 41.5#

68 11.7 6.8 10.2#

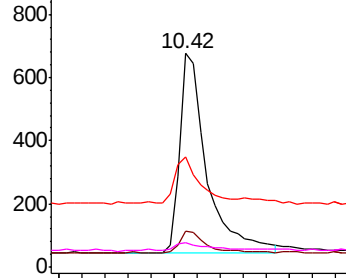


Abundance Ion 136.00 (135.70 to 136.70): BE1

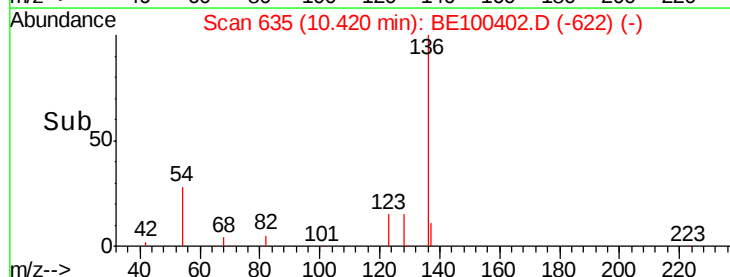
Ion 137.00 (136.70 to 137.70): BE1

Ion 54.00 (53.70 to 54.70): BE1

Ion 68.00 (67.70 to 68.70): BE1



Time-->





#8

Nitrobenzene-d5

Concen: 0.193 ng

RT: 8.82 min Scan# 512

Delta R.T. -0.00 min

Lab File: BE100402.D

Acq: 6 Jul 2019 4:19

Instrument :

BNA_E

ClientSampleId :

EXT-016-SW099-062519

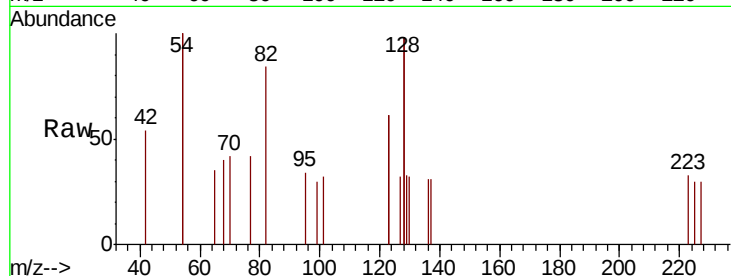
Tgt Ion: 82 Resp: 397

Ion Ratio Lower Upper

82 100

128 233.6 140.9 211.3#

54 238.4 146.2 219.2#

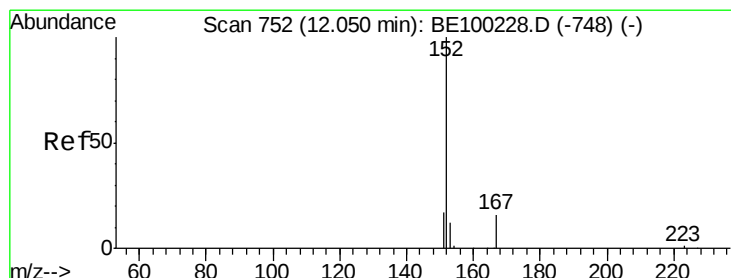
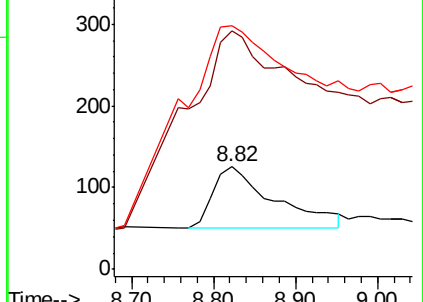
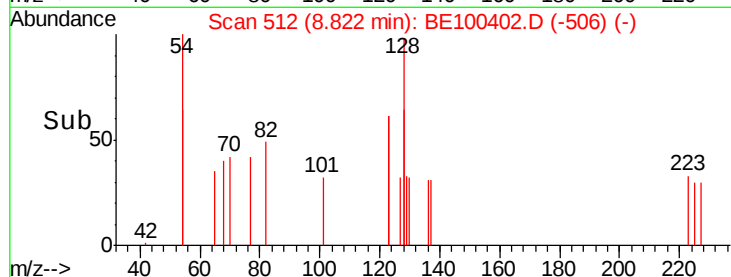


Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): BE1

Ion 54.00 (53.70 to 54.70): BE1

Time-->



#11

2-Methylnaphthalene-d10

Concen: 0.199 ng

RT: 12.04 min Scan# 751

Delta R.T. -0.01 min

Lab File: BE100402.D

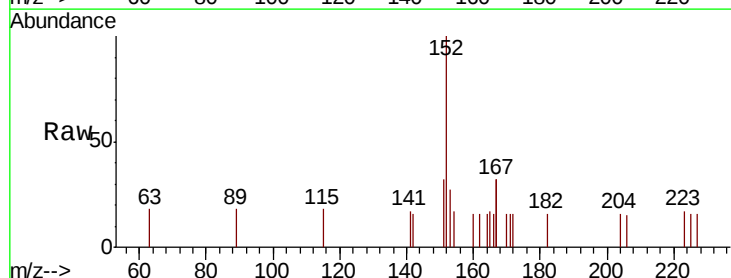
Acq: 6 Jul 2019 4:19

Tgt Ion: 152 Resp: 776

Ion Ratio Lower Upper

152 100

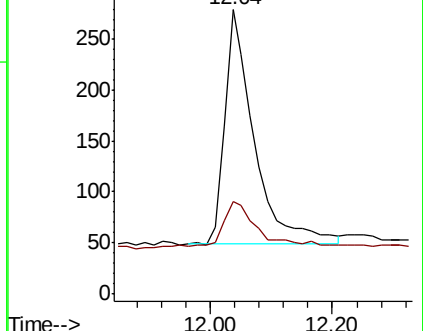
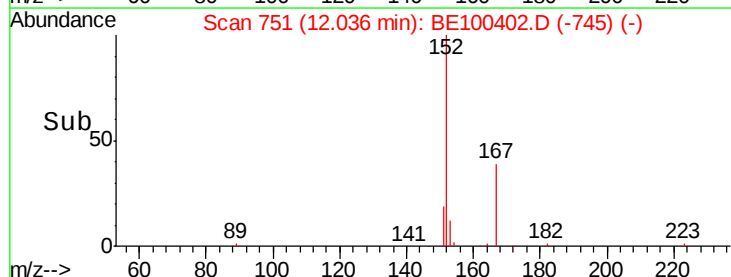
151 21.8 15.1 22.7

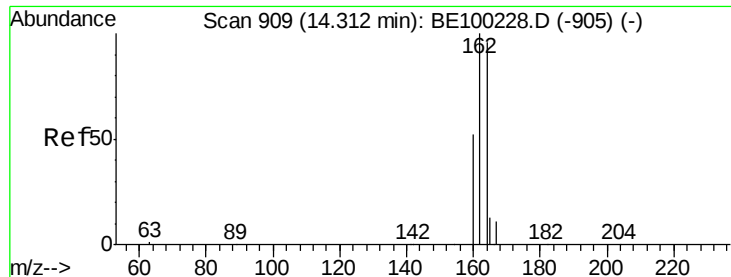


Abundance Ion 152.00 (151.70 to 152.70): BE1

Ion 151.00 (150.70 to 151.70): BE1

Time-->

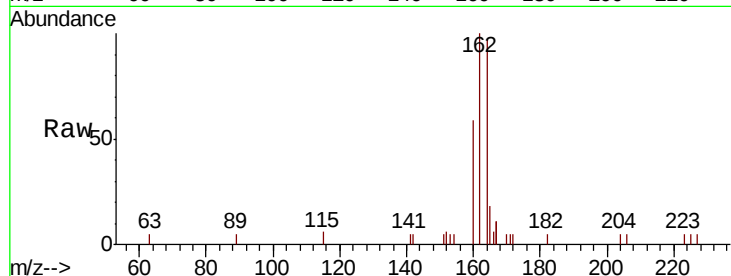




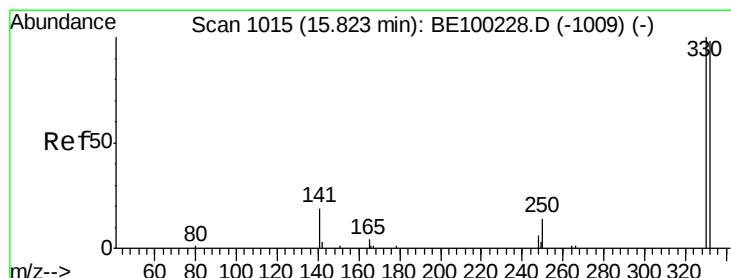
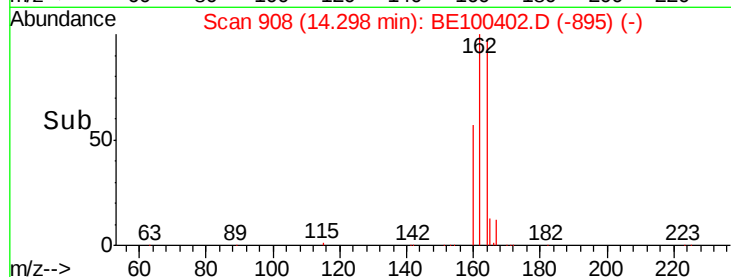
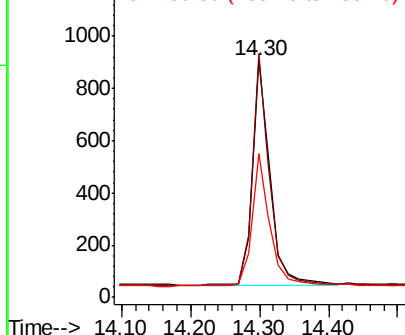
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.30 min Scan# 908
Delta R.T. -0.01 min
Lab File: BE100402.D
Acq: 6 Jul 2019 4:19

Instrument :
BNA_E
ClientSampleId :
EXT-016-SW099-062519

Tgt Ion:164 Resp: 1562
Ion Ratio Lower Upper
164 100
162 102.6 83.4 125.0
160 60.7 45.0 67.6

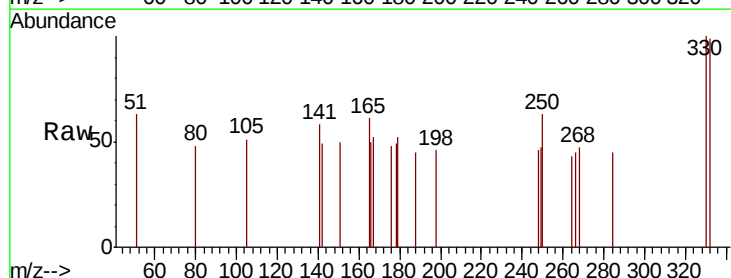


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

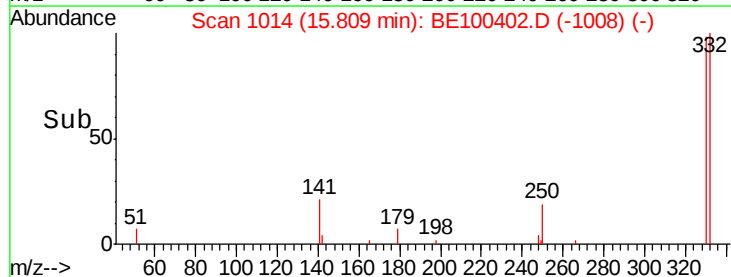
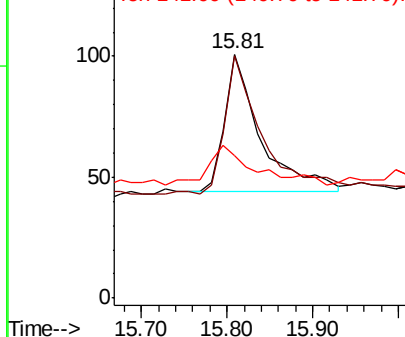


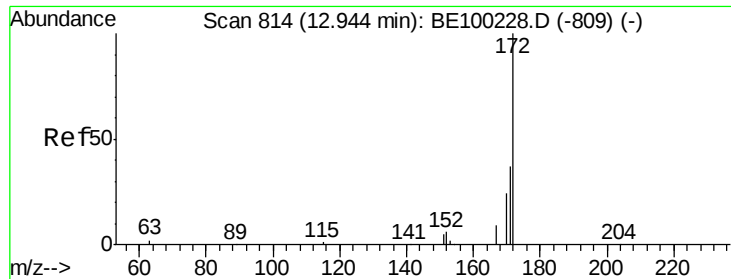
#14
2,4,6-Tribromophenol
Concen: 0.152 ng
RT: 15.81 min Scan# 1014
Delta R.T. -0.01 min
Lab File: BE100402.D
Acq: 6 Jul 2019 4:19

Tgt Ion:330 Resp: 166
Ion Ratio Lower Upper
330 100
332 119.3 77.0 115.4#
141 36.1 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

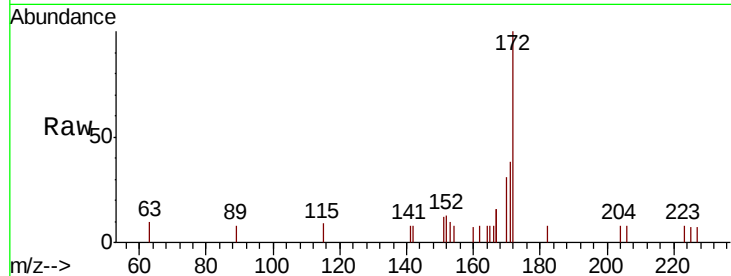




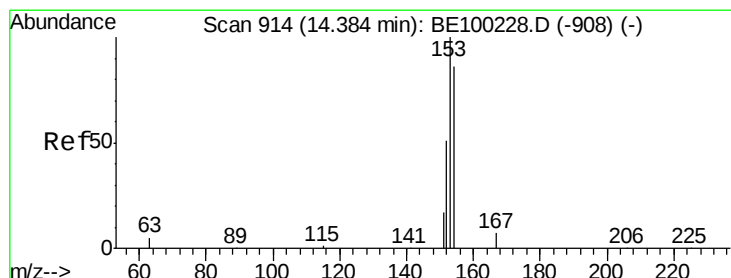
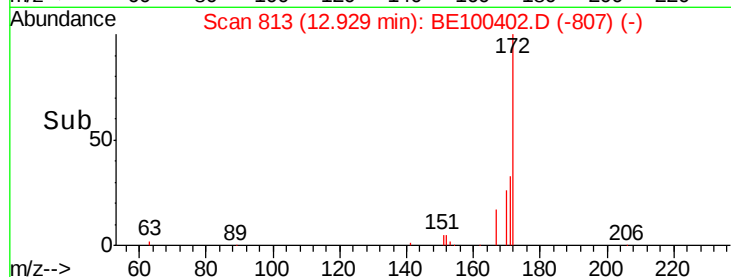
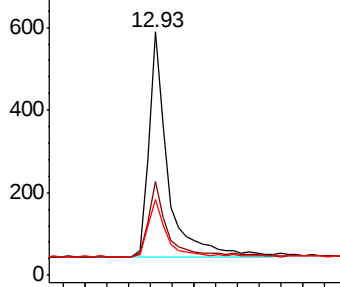
#15
2-Fluorobiphenyl
Concen: 0.217 ng
RT: 12.93 min Scan# 813
Delta R.T. -0.01 min
Lab File: BE100402.D
Acq: 6 Jul 2019 4:19

Instrument :
BNA_E
ClientSampleId :
EXT-016-SW099-062519

Tgt Ion:172 Resp: 1321
Ion Ratio Lower Upper
172 100
171 38.4 31.9 47.9
170 31.2 22.2 33.2

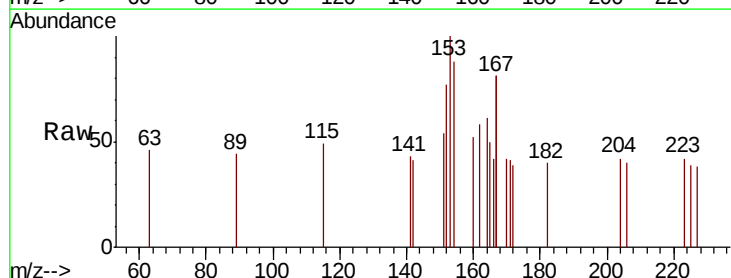


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

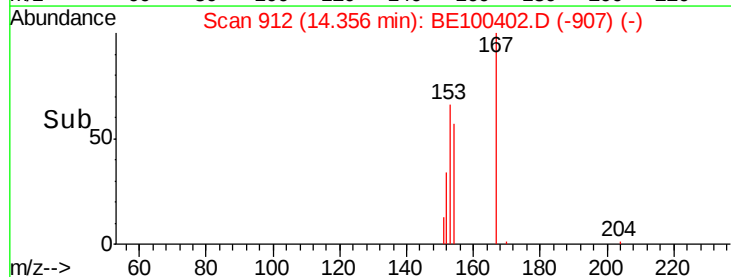
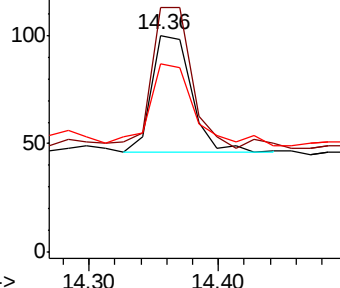


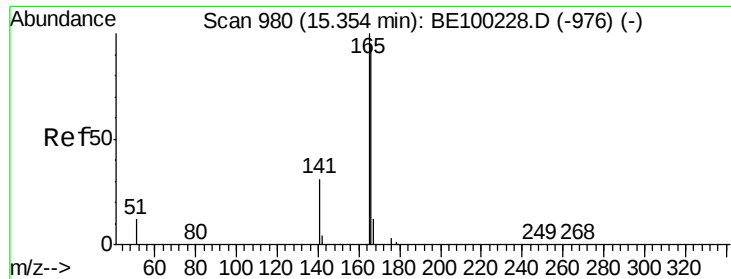
#17
Acenaphthene
Concen: 0.027 ng
RT: 14.36 min Scan# 912
Delta R.T. -0.03 min
Lab File: BE100402.D
Acq: 6 Jul 2019 4:19

Tgt Ion:154 Resp: 115
Ion Ratio Lower Upper
154 100
153 120.0 93.4 140.2
152 80.0 49.4 74.2#



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#18

Fluorene

Concen: 0.020 ng

RT: 15.35 min Scan# 980

Delta R.T. -0.00 min

Lab File: BE100402.D

Acq: 6 Jul 2019 4:19

Instrument :

BNA_E

ClientSampleId :

EXT-016-SW099-062519

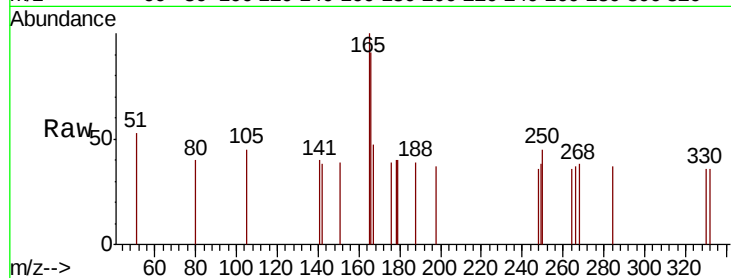
Tgt Ion:166 Resp: 127

Ion Ratio Lower Upper

166 100

165 96.1 81.1 121.7

167 18.9 10.7 16.1#

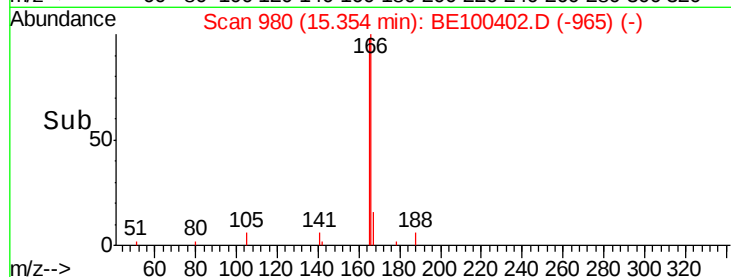


Abundance Ion 166.00 (165.70 to 166.70): E

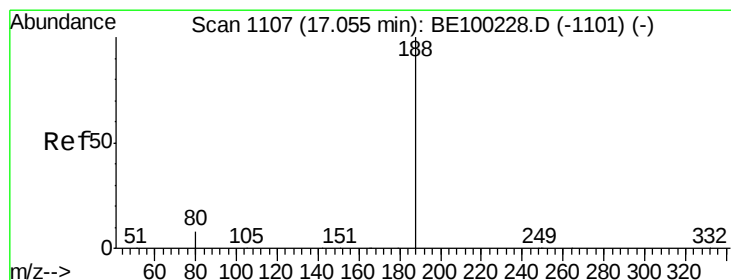
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

15.35



Time-->



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.04 min Scan# 1106

Delta R.T. -0.01 min

Lab File: BE100402.D

Acq: 6 Jul 2019 4:19

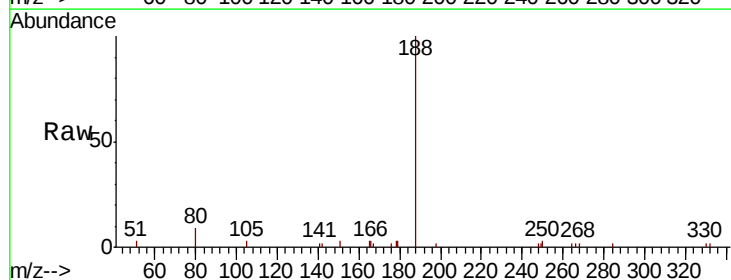
Tgt Ion:188 Resp: 4738

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.2 7.6 11.4

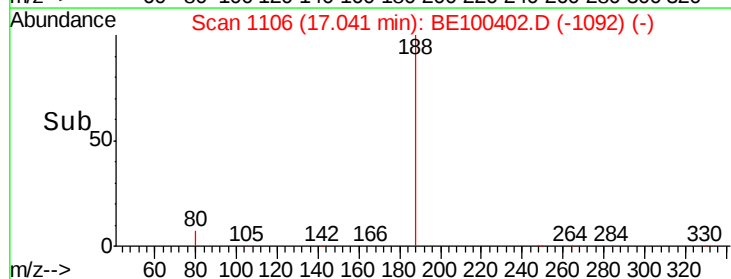


Abundance Ion 188.00 (187.70 to 188.70): E

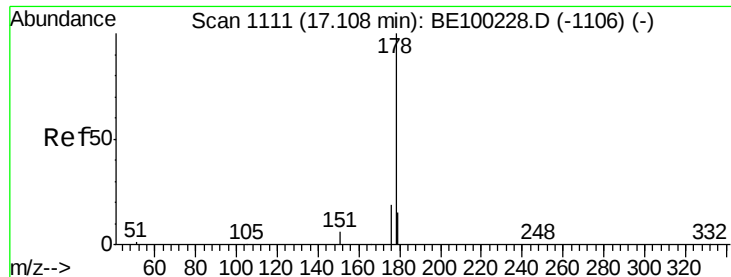
Ion 94.00 (93.70 to 94.70): BE1

Ion 80.00 (79.70 to 80.70): BE1

17.04



Time-->



#23

Phenanthrene

Concen: 0.388 ng

RT: 17.09 min Scan# 1110

Delta R.T. -0.01 min

Lab File: BE100402.D

Acq: 6 Jul 2019 4:19

Instrument :

BNA_E

ClientSampleId :

EXT-016-SW099-062519

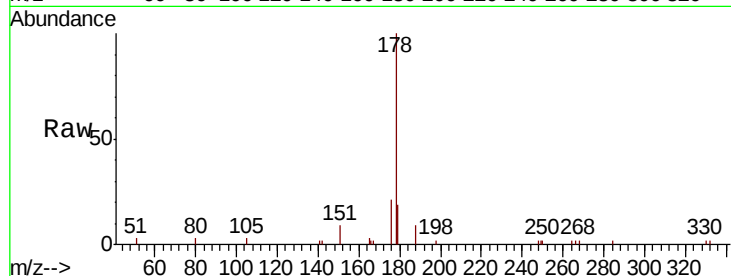
Tgt Ion:178 Resp: 4454

Ion Ratio Lower Upper

178 100

176 20.4 15.9 23.9

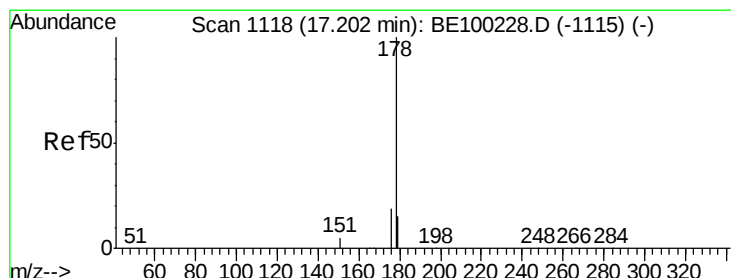
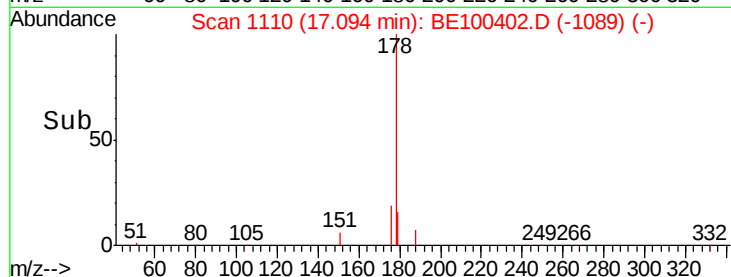
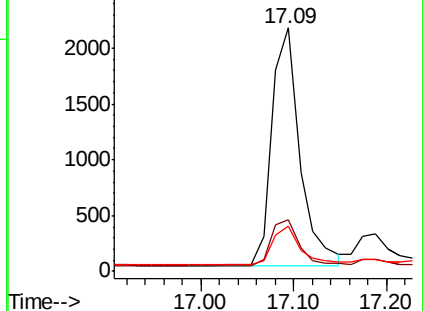
179 17.2 12.2 18.2



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: 0.055 ng

RT: 17.19 min Scan# 1117

Delta R.T. -0.01 min

Lab File: BE100402.D

Acq: 6 Jul 2019 4:19

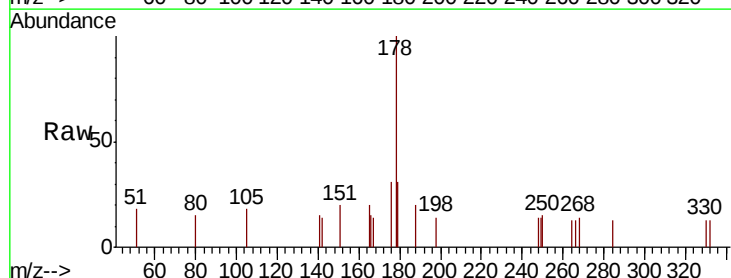
Tgt Ion:178 Resp: 569

Ion Ratio Lower Upper

178 100

176 21.3 15.3 22.9

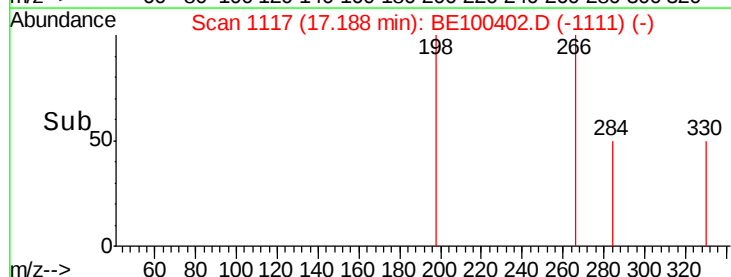
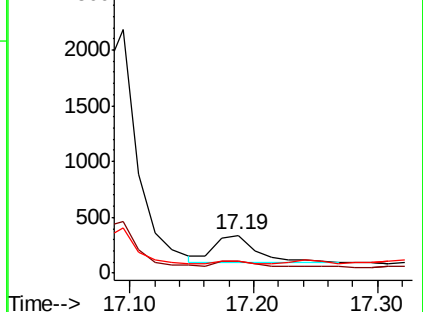
179 8.1 12.2 18.2#

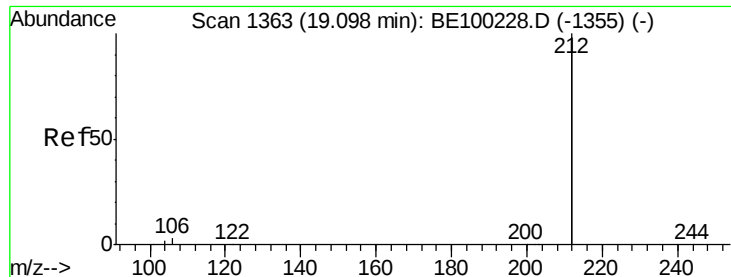


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.190 ng

RT: 19.08 min Scan# 1360

Delta R.T. -0.02 min

Lab File: BE100402.D

Acq: 6 Jul 2019 4:19

Instrument :

BNA_E

ClientSampleId :

EXT-016-SW099-062519

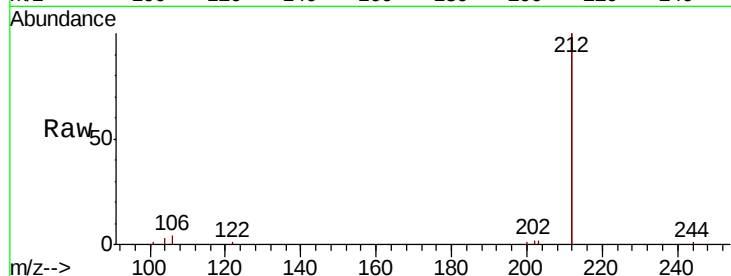
Tgt Ion:212 Resp: 13082

Ion Ratio Lower Upper

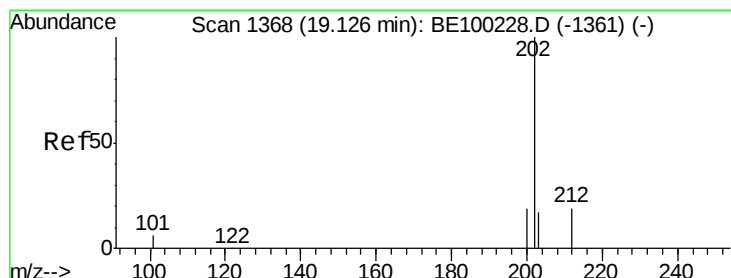
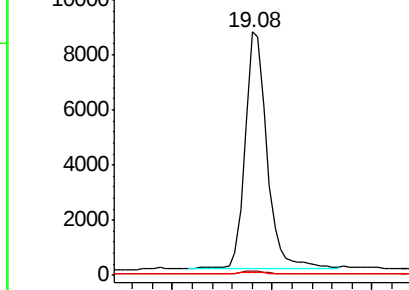
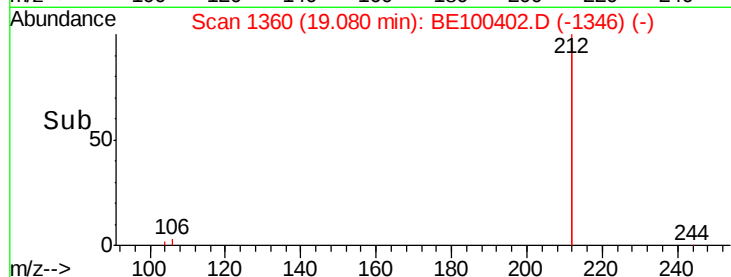
212 100

106 1.4 1.3 1.9

104 1.0 0.8 1.2



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



#26

Fluoranthene

Concen: 0.471 ng

RT: 19.11 min Scan# 1366

Delta R.T. -0.01 min

Lab File: BE100402.D

Acq: 6 Jul 2019 4:19

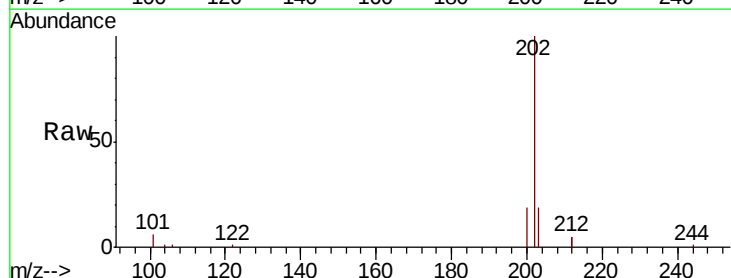
Tgt Ion:202 Resp: 8621

Ion Ratio Lower Upper

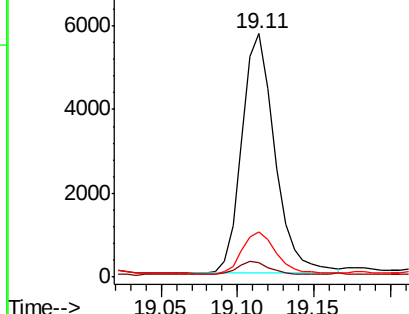
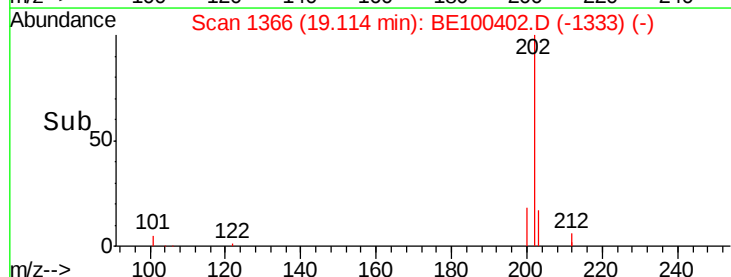
202 100

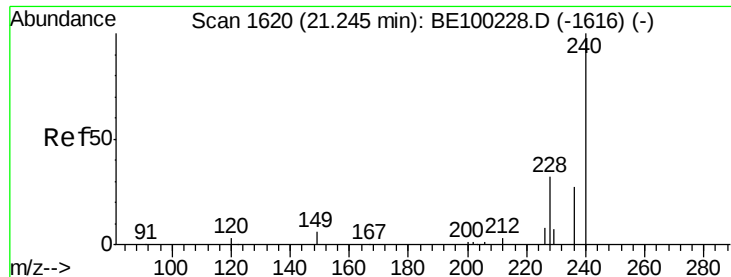
101 5.3 4.6 7.0

203 17.9 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

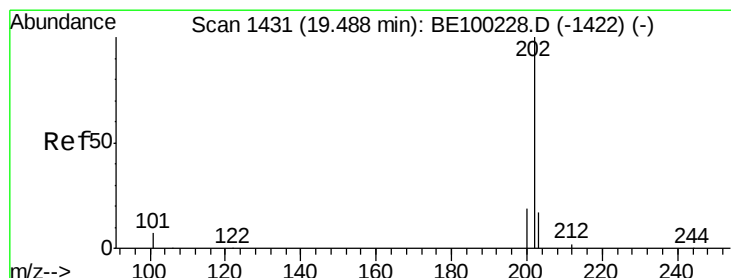
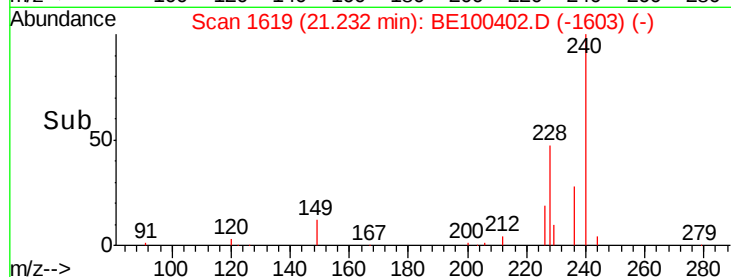
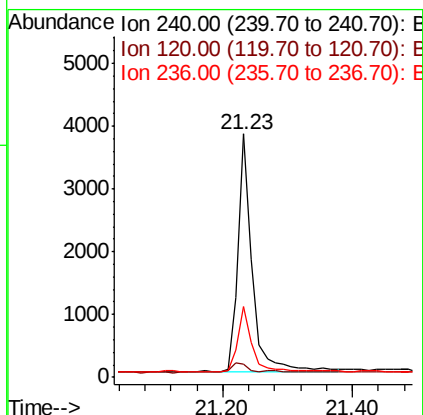
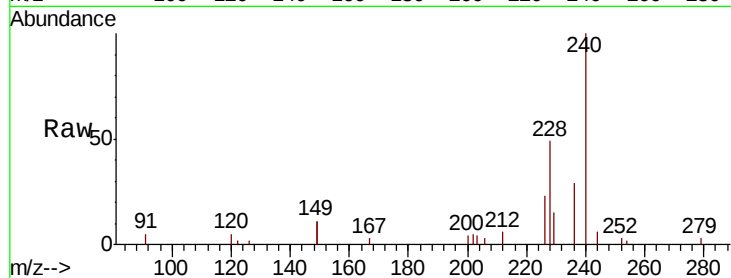




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.23 min Scan# 1619
 Delta R.T. -0.01 min
 Lab File: BE100402.D
 Acq: 6 Jul 2019 4:19

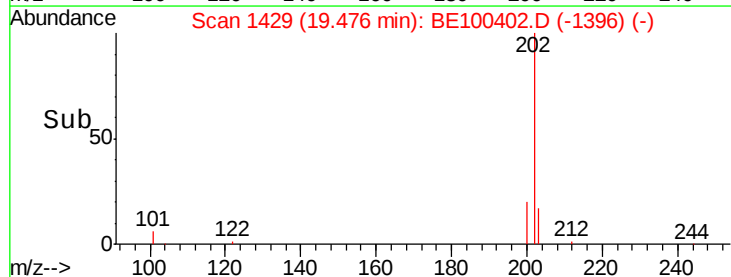
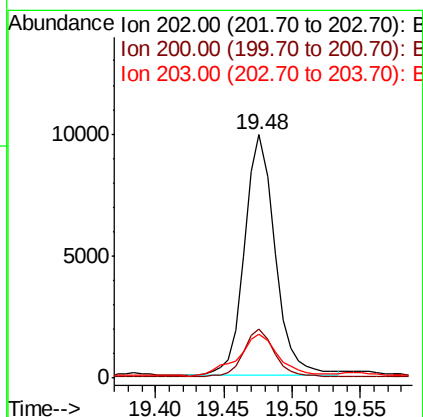
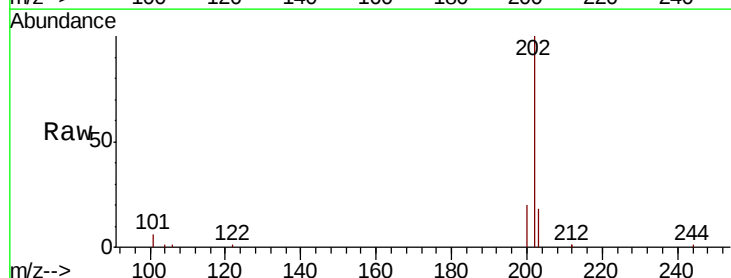
Instrument :
 BNA_E
 ClientSampleId :
 EXT-016-SW099-062519

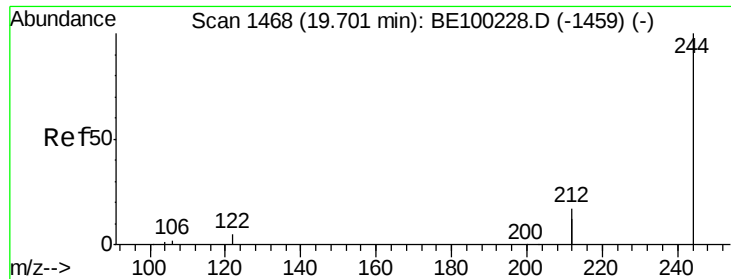
Tgt Ion:240 Resp: 5891
 Ion Ratio Lower Upper
 240 100
 120 5.4 3.3 4.9#
 236 29.1 22.6 34.0



#28
 Pyrene
 Concen: 0.981 ng
 RT: 19.48 min Scan# 1429
 Delta R.T. -0.01 min
 Lab File: BE100402.D
 Acq: 6 Jul 2019 4:19

Tgt Ion:202 Resp: 15301
 Ion Ratio Lower Upper
 202 100
 200 20.0 15.6 23.4
 203 22.4 14.0 21.0#





#29

Terphenyl-d14

Concen: 0.228 ng

RT: 19.68 min Scan# 1465

Delta R.T. -0.02 min

Lab File: BE100402.D

Acq: 6 Jul 2019 4:19

Instrument :

BNA_E

ClientSampleId :

EXT-016-SW099-062519

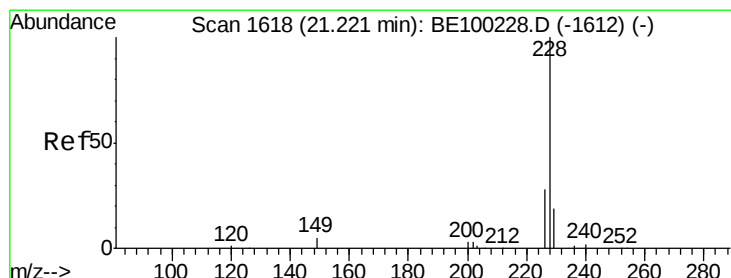
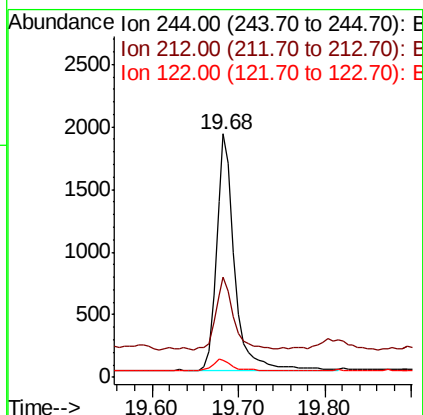
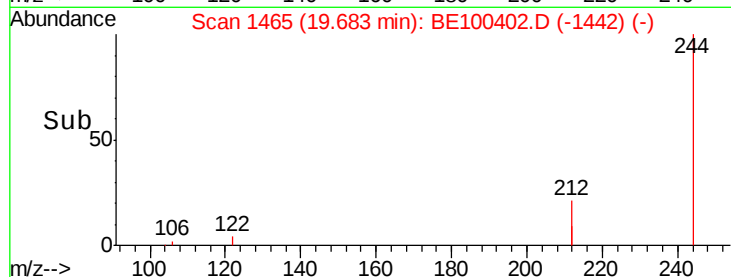
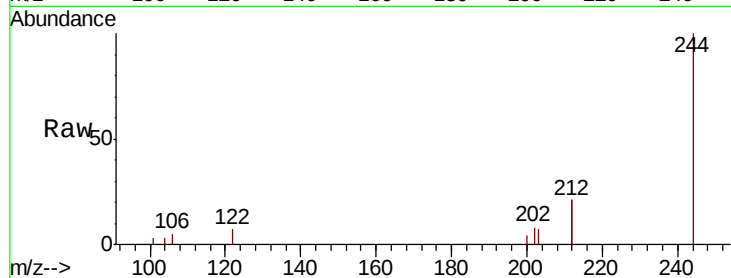
Tgt Ion:244 Resp: 2785

Ion Ratio Lower Upper

244 100

212 41.3 27.3 40.9#

122 6.9 4.7 7.1



#30

Benzo(a)anthracene

Concen: 0.382 ng

RT: 21.22 min Scan# 1618

Delta R.T. -0.00 min

Lab File: BE100402.D

Acq: 6 Jul 2019 4:19

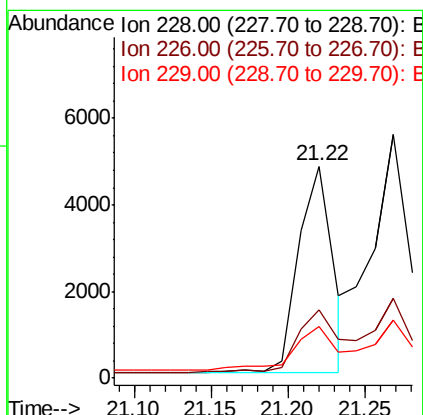
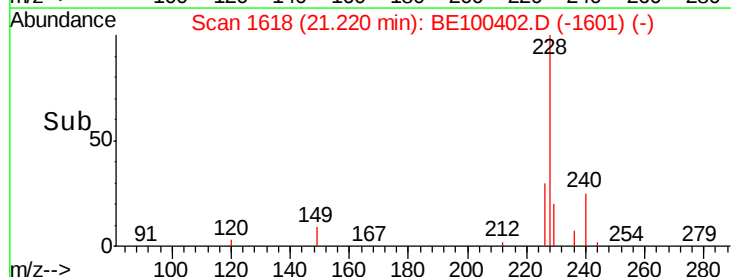
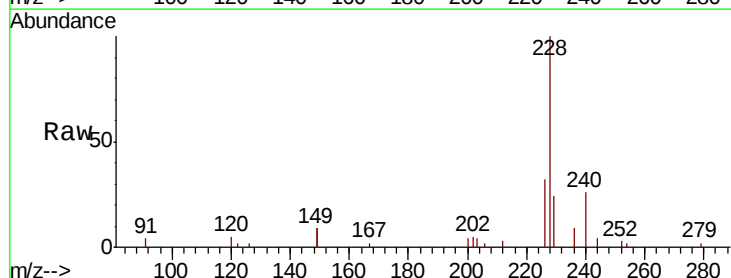
Tgt Ion:228 Resp: 7407

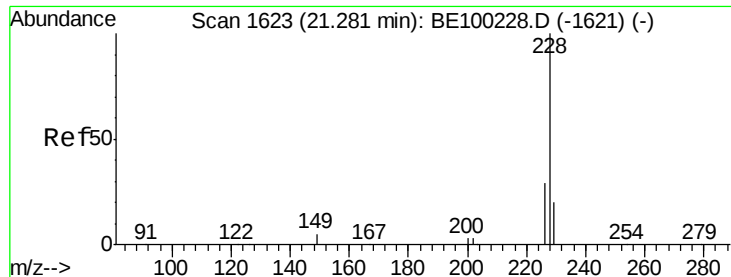
Ion Ratio Lower Upper

228 100

226 32.4 23.2 34.8

229 24.2 15.7 23.5#





#31

Chrysene

Concen: 0.431 ng

RT: 21.27 min Scan# 1622

Delta R.T. -0.01 min

Lab File: BE100402.D

Acq: 6 Jul 2019 4:19

Instrument :

BNA_E

ClientSampleId :

EXT-016-SW099-062519

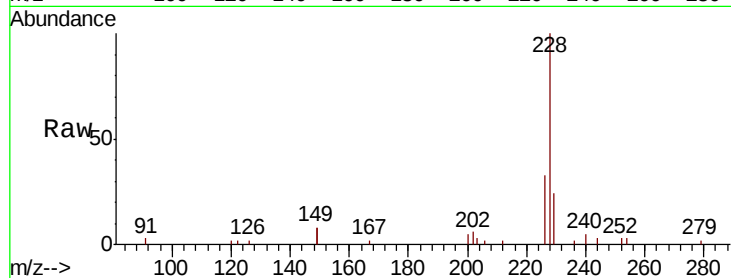
Tgt Ion: 228 Resp: 8381

Ion Ratio Lower Upper

228 100

226 32.8 23.9 35.9

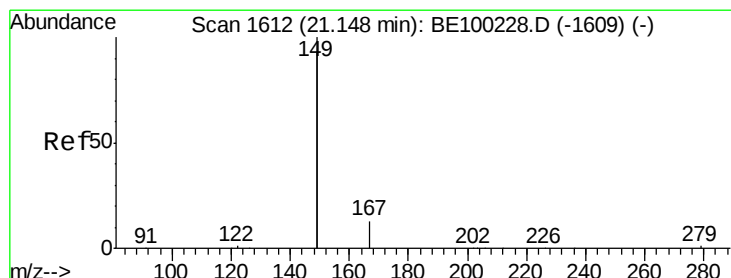
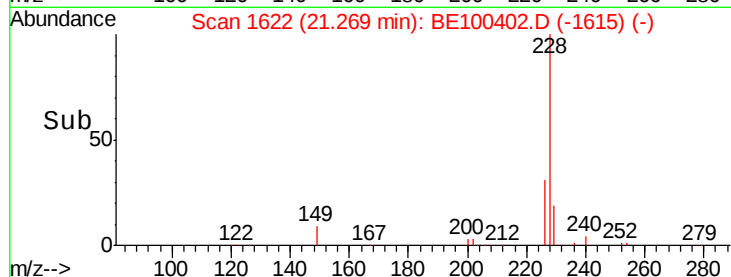
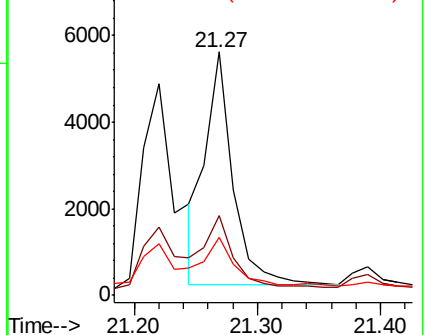
229 23.7 16.5 24.7



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: 0.061 ng

RT: 21.14 min Scan# 1611

Delta R.T. -0.01 min

Lab File: BE100402.D

Acq: 6 Jul 2019 4:19

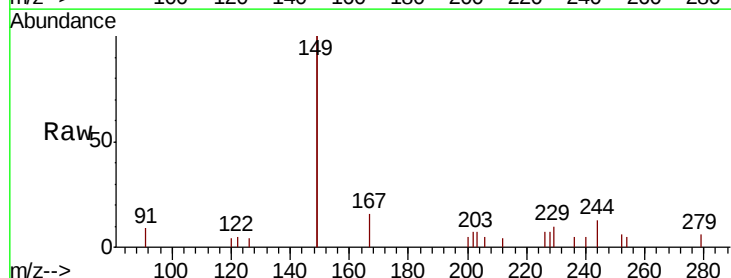
Tgt Ion: 149 Resp: 3258

Ion Ratio Lower Upper

149 100

167 7.9 5.8 8.8

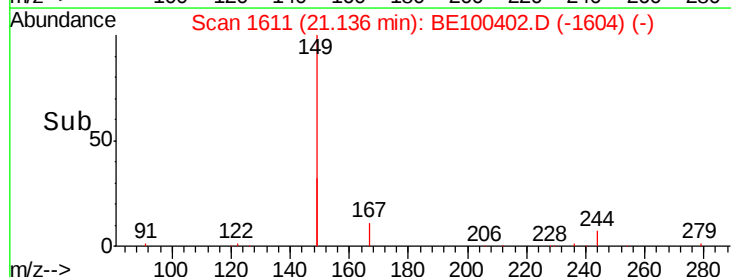
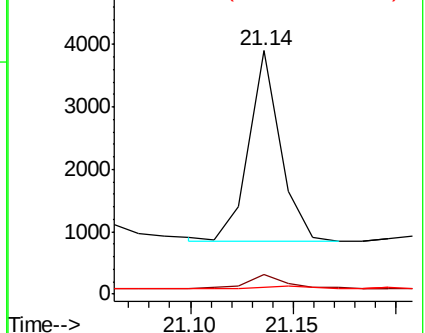
279 2.6 1.1 1.7#

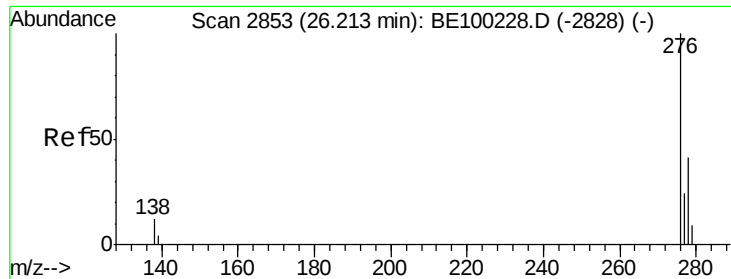


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.134 ng

RT: 26.20 min Scan# 2850

Delta R.T. -0.01 min

Lab File: BE100402.D

Acq: 6 Jul 2019 4:19

Instrument :

BNA_E

ClientSampleId :

EXT-016-SW099-062519

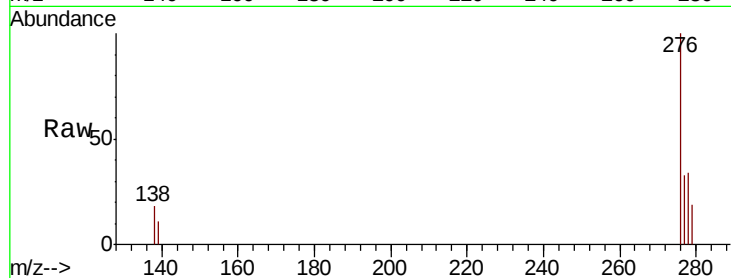
Tgt Ion:276 Resp: 3446

Ion Ratio Lower Upper

276 100

138 8.4 9.4 14.0#

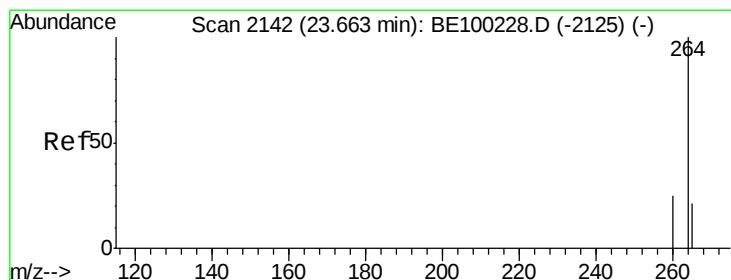
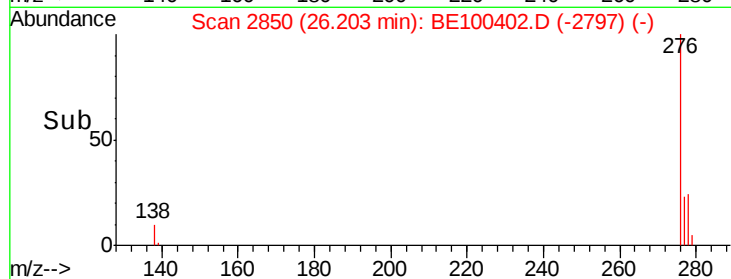
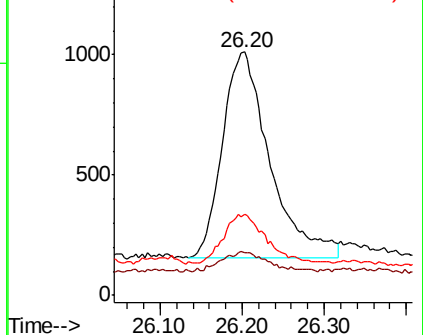
277 21.0 19.2 28.8



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

Perylene-d12

Concen: 0.400 ng

RT: 23.65 min Scan# 2139

Delta R.T. -0.01 min

Lab File: BE100402.D

Acq: 6 Jul 2019 4:19

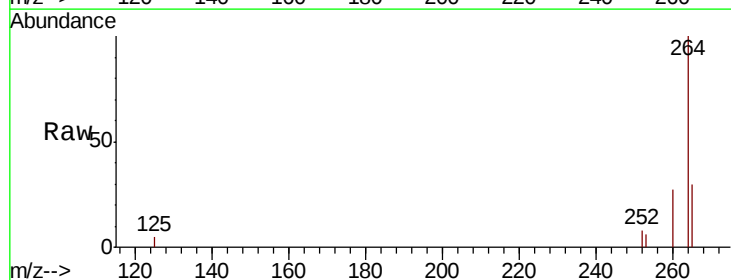
Tgt Ion:264 Resp: 7568

Ion Ratio Lower Upper

264 100

260 26.5 20.8 31.2

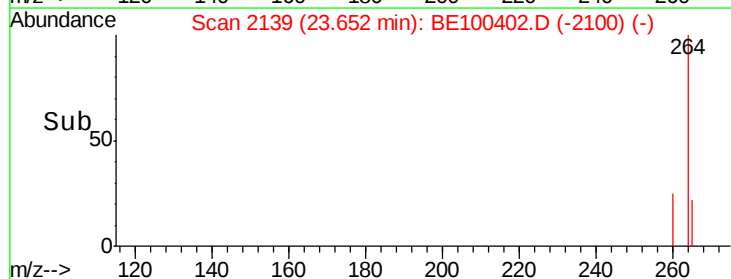
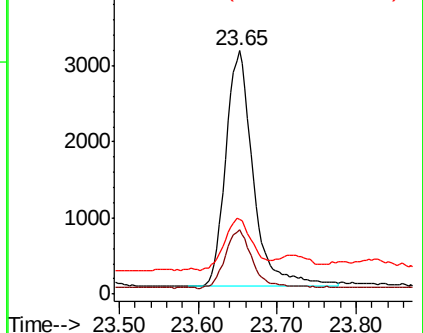
265 30.5 21.8 32.6

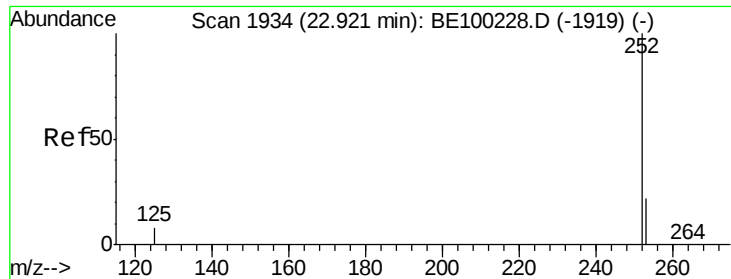


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

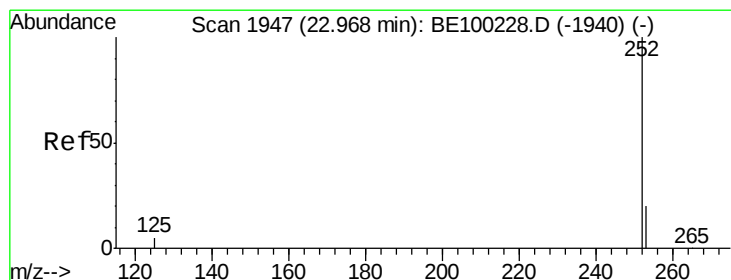
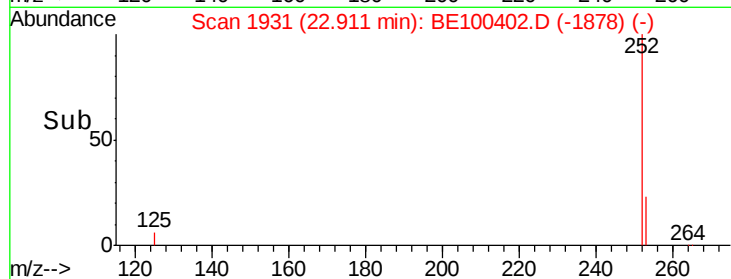
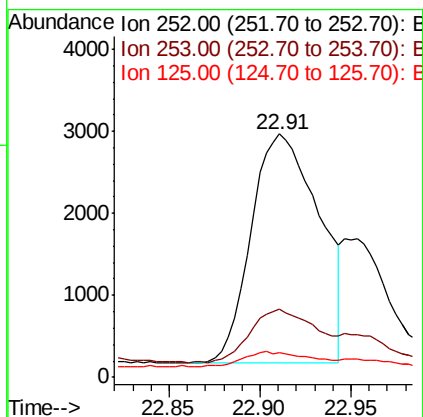
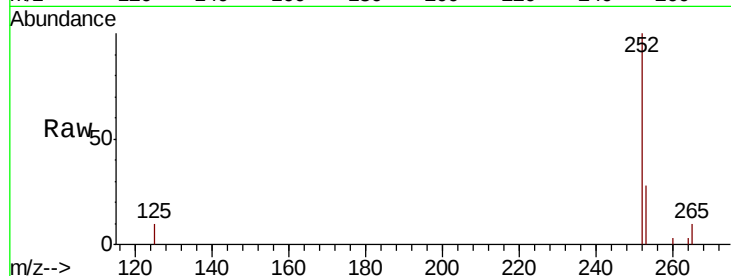




#35
Benzo(b)fluoranthene
Concen: 0.354 ng
RT: 22.91 min Scan# 1931
Delta R.T. -0.01 min
Lab File: BE100402.D
Acq: 6 Jul 2019 4:19

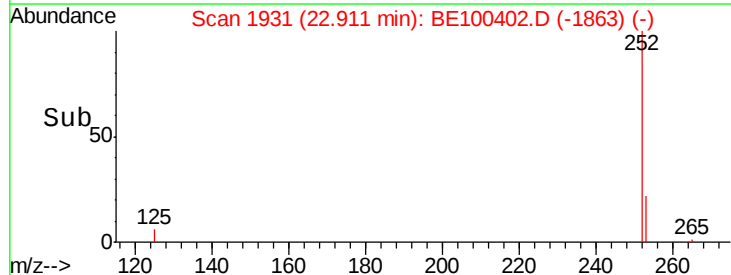
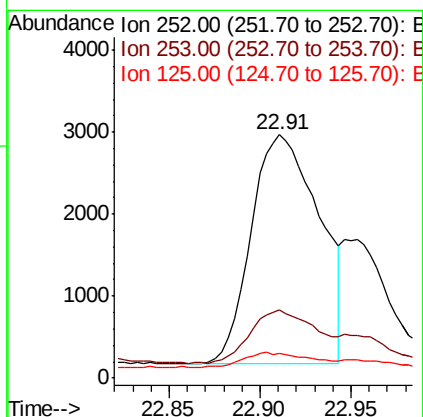
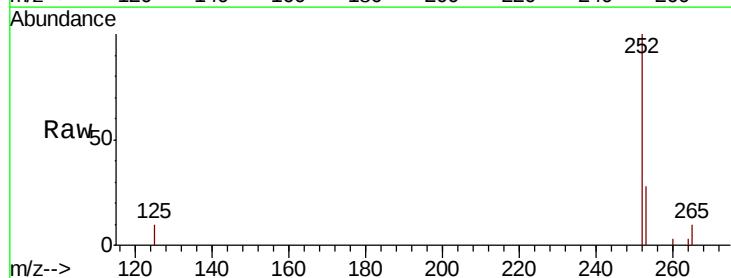
Instrument :
BNA_E
ClientSampleId :
EXT-016-SW099-062519

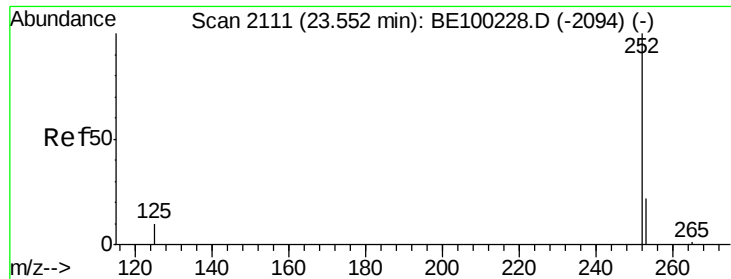
Tgt Ion: 252 Resp: 7273
Ion Ratio Lower Upper
252 100
253 27.8 19.2 28.8
125 10.1 7.4 11.0



#36
Benzo(k)fluoranthene
Concen: 0.318 ng
RT: 22.91 min Scan# 1931
Delta R.T. -0.06 min
Lab File: BE100402.D
Acq: 6 Jul 2019 4:19

Tgt Ion: 252 Resp: 7273
Ion Ratio Lower Upper
252 100
253 27.8 17.9 26.9#
125 10.1 5.0 7.4#





#37

Benzo(a)pyrene

Concen: 0.312 ng

RT: 23.55 min Scan# 2109

Delta R.T. -0.01 min

Lab File: BE100402.D

Acq: 6 Jul 2019 4:19

Instrument :

BNA_E

ClientSampleId :

EXT-016-SW099-062519

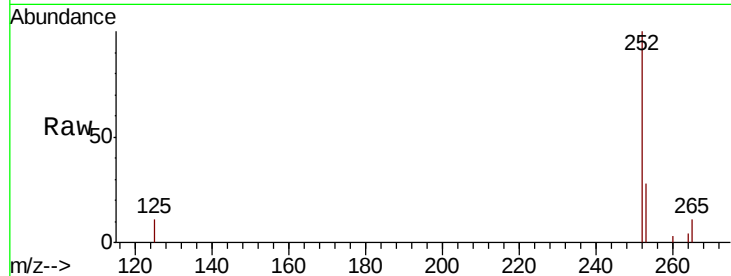
Tgt Ion: 252 Resp: 6415

Ion Ratio Lower Upper

252 100

253 27.5 19.6 29.4

125 10.6 9.0 13.6

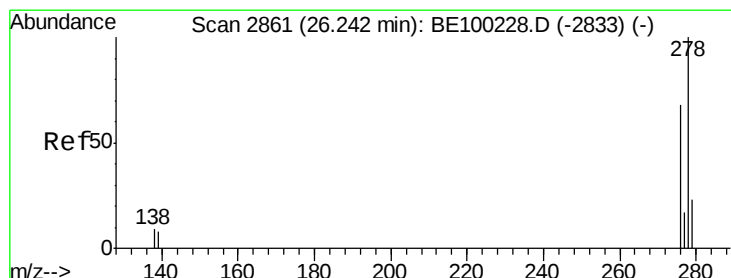
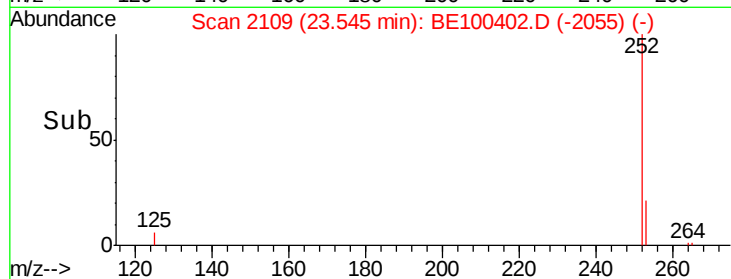
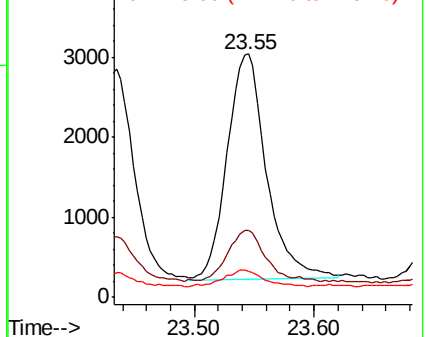


Abundance

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: 0.040 ng

RT: 26.21 min Scan# 2851

Delta R.T. -0.04 min

Lab File: BE100402.D

Acq: 6 Jul 2019 4:19

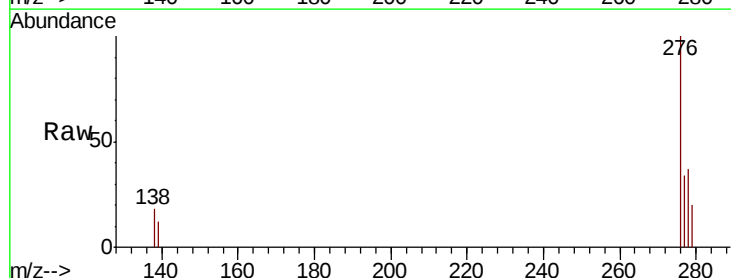
Tgt Ion: 278 Resp: 859

Ion Ratio Lower Upper

278 100

139 33.6 8.2 12.2#

279 53.3 20.3 30.5#

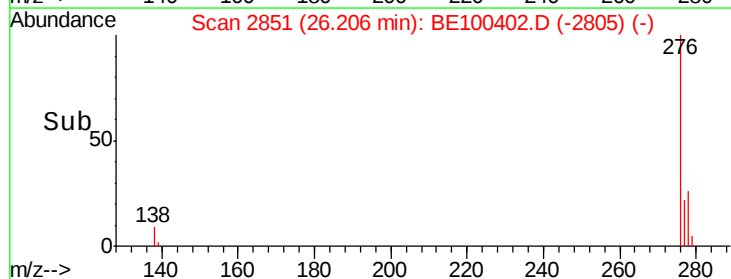
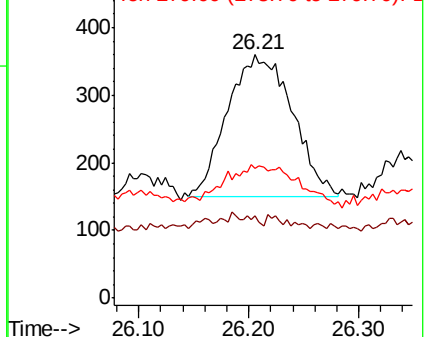


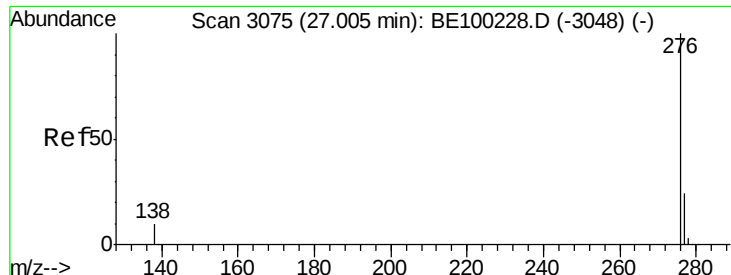
Abundance

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: 0.197 ng

RT: 26.98 min Scan# 3069

Delta R.T. -0.02 min

Lab File: BE100402.D

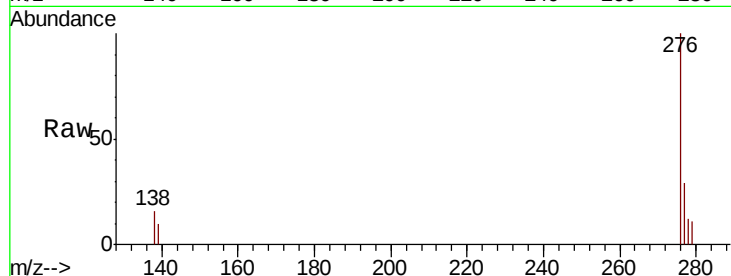
Acq: 6 Jul 2019 4:19

Instrument :

BNA_E

ClientSampleId :

EXT-016-SW099-062519



Tgt Ion: 276 Resp: 4350

Ion Ratio Lower Upper

276 100

277 29.4 20.2 30.2

138 15.9 9.0 13.6#

