

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE011420\
 Data File : BE101057.D
 Acq On : 14 Jan 2020 18:27
 Operator : JU
 Sample : L1103-05 10X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Jan 14 20:43:02 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE010820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 08 18:36:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.73	152	3723	0.40	ng	0.00
7) Naphthalene-d8	10.50	136	19671	0.40	ng	0.00
13) Acenaphthene-d10	14.36	164	14138	0.40	ng	0.00
19) Phenanthrene-d10	17.09	188	31774	0.40	ng	0.00
27) Chrysene-d12	21.27	240	31018	0.40	ng	-0.01
34) Perylene-d12	23.69	264	34432	0.40	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.33	112	276	0.03	ng	0.00
5) Phenol-d6	6.92	99	268	0.03	ng	0.00
8) Nitrobenzene-d5	8.87	82	224	0.02	ng	0.00
11) 2-Methylnaphthalene-d10	12.09	152	729	0.02	ng	-0.02
14) 2,4,6-Tribromophenol	15.84	330	123	0.03	ng	-0.01
15) 2-Fluorobiphenyl	12.99	172	1077	0.02	ng	-0.02
25) Fluoranthene-d10	19.12	212	8422	0.02	ng	-0.01
29) Terphenyl-d14	19.72	244	2000	0.03	ng	-0.01

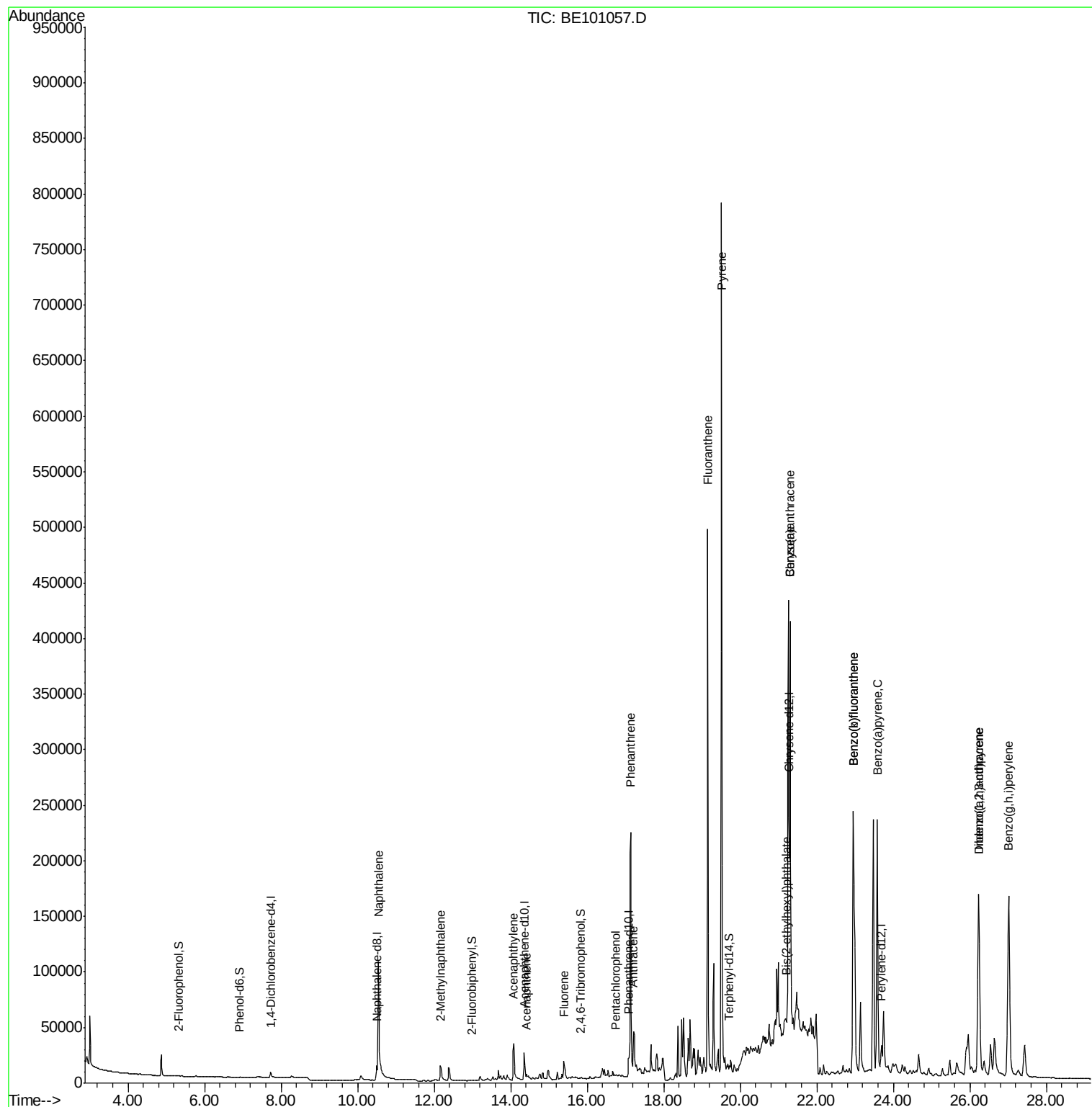
Target Compounds					Qvalue	
9) Naphthalene	10.55	128	244567	1.120	ng	100
12) 2-Methylnaphthalene	12.17	142	16210	0.491	ng	99
16) Acenaphthylene	14.08	152	54944	0.954	ng	99
17) Acenaphthene	14.41	154	1972	0.048	ng	# 82
18) Fluorene	15.39	166	17096	0.328	ng	97
22) Pentachlorophenol	16.75	266	26	0.254	ng	86
23) Phenanthrene	17.13	178	306213	3.529	ng	99
24) Anthracene	17.21	178	64993	0.794	ng	99
26) Fluoranthene	19.15	202	470821	4.333	ng	98
28) Pylene	19.51	202	764258	6.619	ng	98
30) Benzo(a)anthracene	21.31	228	339528	3.836	ng	94
31) Chrysene	21.31	228	350025	2.661	ng	96
32) Bis(2-ethylhexyl)phthalate	21.20	149	36357	0.247	ng	# 86
33) Indeno(1,2,3-cd)pyrene	26.23	276	327811	3.154	ng	97
35) Benzo(b)fluoranthene	22.95	252	601533	6.229	ng	99
36) Benzo(k)fluoranthene	22.95	252	601533	4.299	ng	99
37) Benzo(a)pyrene	23.58	252	353448	3.784	ng	97
38) Dibenzo(a,h)anthracene	26.24	278	66617	0.775	ng	97
39) Benzo(g,h,i)perylene	27.02	276	408211	3.864	ng	99

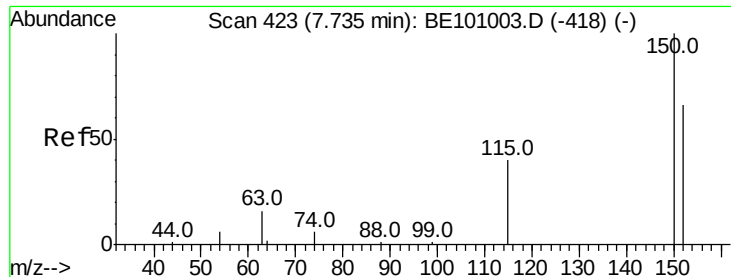
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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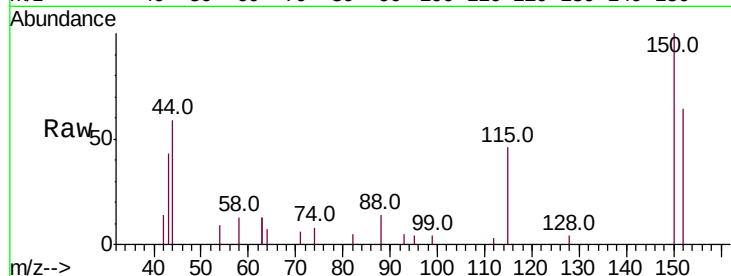


#1

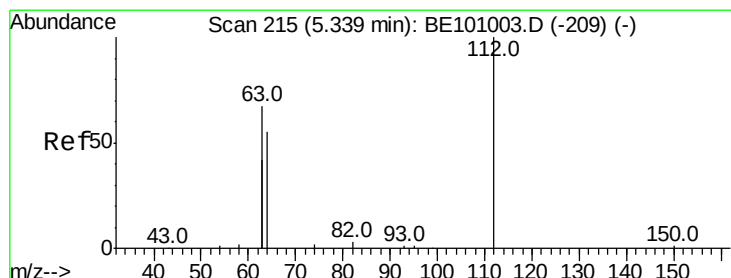
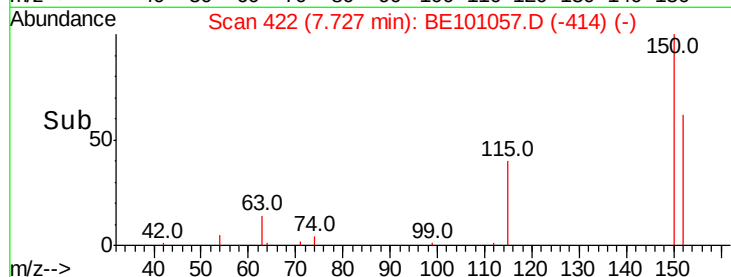
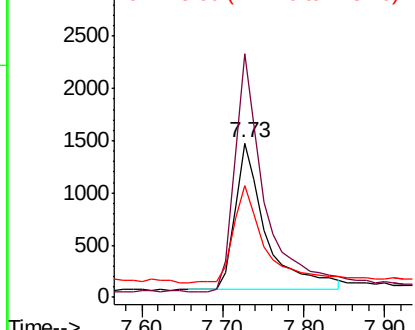
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.73 min Scan# 422
Delta R.T. -0.01 min
Lab File: BE101057.D
Acq: 14 Jan 2020 18:27

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 3723
Ion Ratio Lower Upper
152 100
150 157.5 120.3 180.5
115 72.7 51.7 77.5



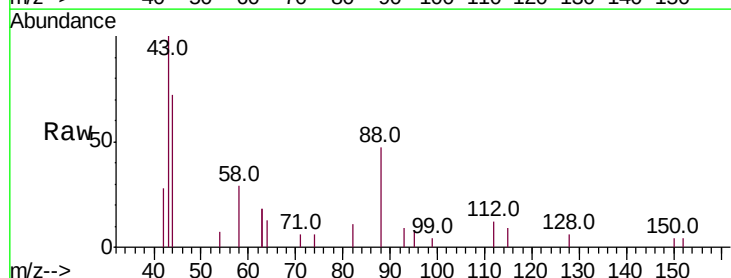
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



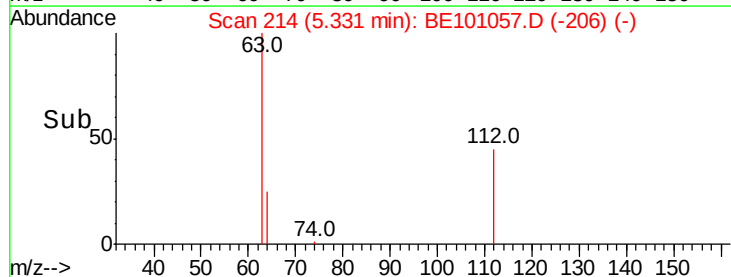
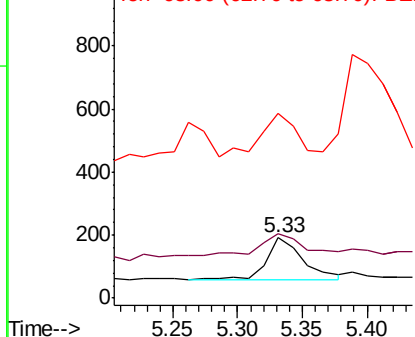
#4

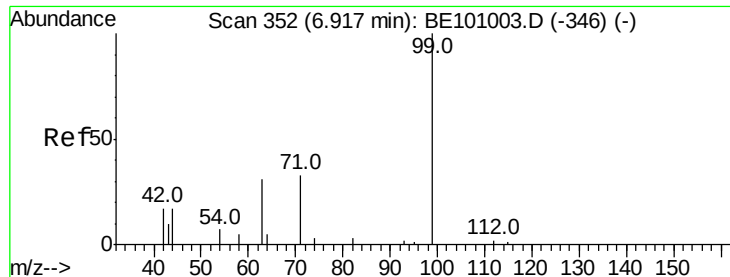
2-Fluorophenol
Concen: 0.033 ng
RT: 5.33 min Scan# 214
Delta R.T. -0.01 min
Lab File: BE101057.D
Acq: 14 Jan 2020 18:27

Tgt Ion:112 Resp: 276
Ion Ratio Lower Upper
112 100
64 57.6 53.6 80.4
63 68.5 114.6 172.0#



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: 0.025 ng

RT: 6.92 min Scan# 352

Delta R.T. 0.00 min

Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

Instrument :

BNA_E

ClientSampleId :

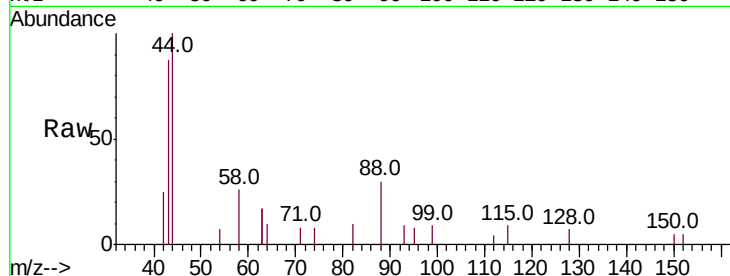
Tot Ion: 99 Resp: 268

Ion Ratio Lower Upper

99 100

42 41.8 18.3 27.5#

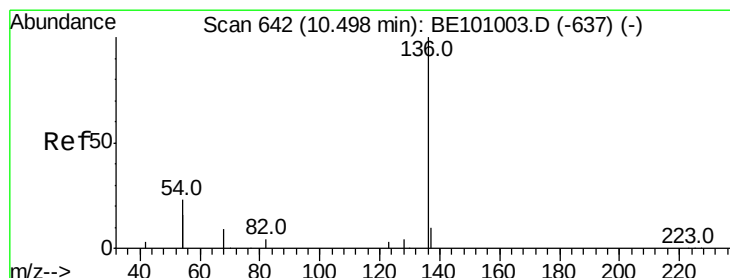
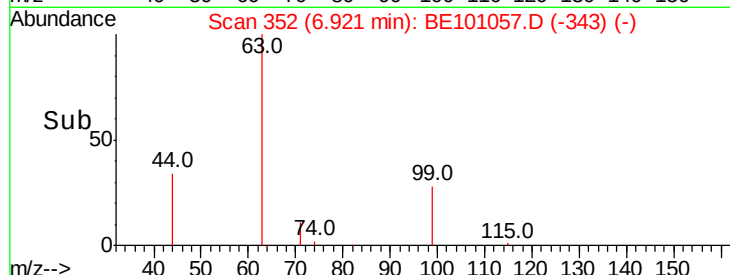
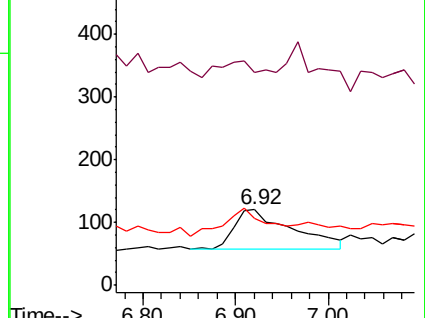
71 53.0 28.0 42.0#



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: 10.50 min Scan# 641

Delta R.T. -0.00 min

Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

Tgt Ion: 136 Resp: 19671

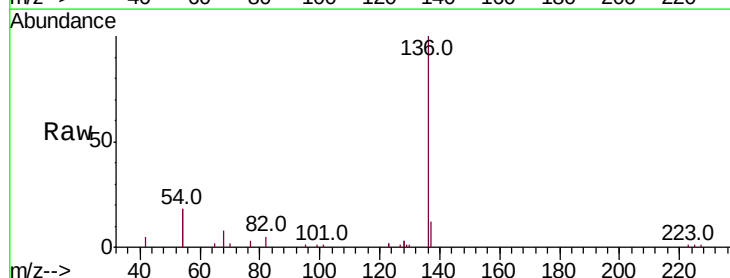
Ion Ratio Lower Upper

136 100

137 12.1 9.3 13.9

54 35.2 36.8 55.2#

68 7.9 8.4 12.6#

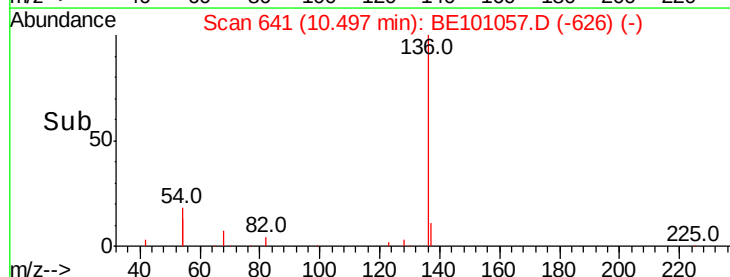
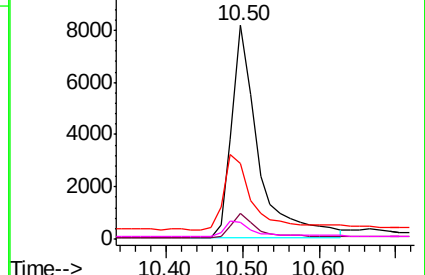


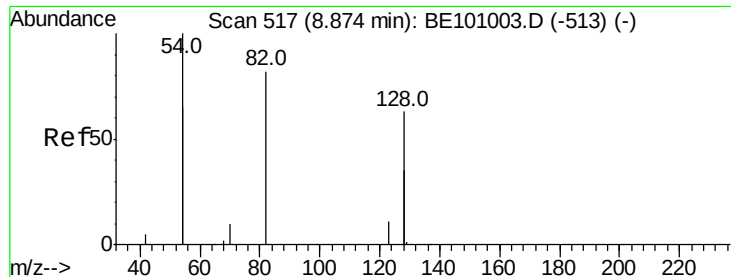
Abundance Ion 136.00 (135.70 to 136.70): BE1

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





#8

Nitrobenzene-d5

Concen: 0.016 ng

RT: 8.87 min Scan# 516

Delta R.T. -0.00 min

Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

Instrument :

BNA_E

ClientSampleId :

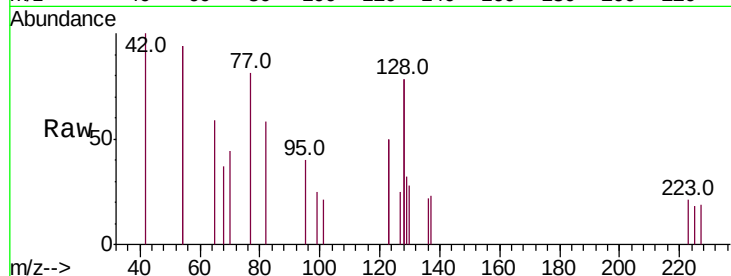
Tot Ion: 82 Resp: 224

Ion Ratio Lower Upper

82 100

128 266.7 109.8 164.6#

54 321.8 174.5 261.7#

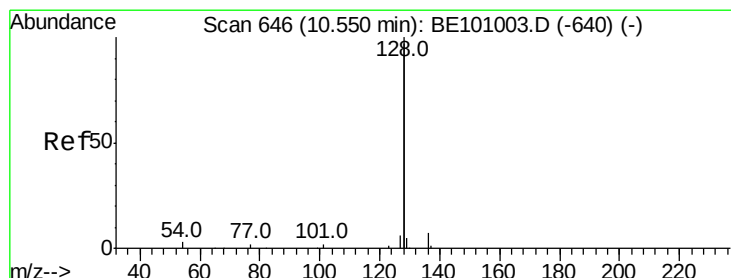
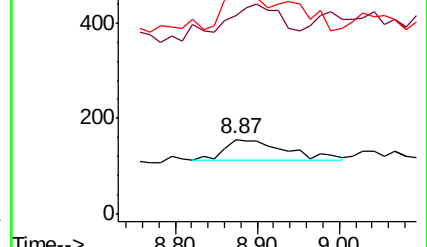
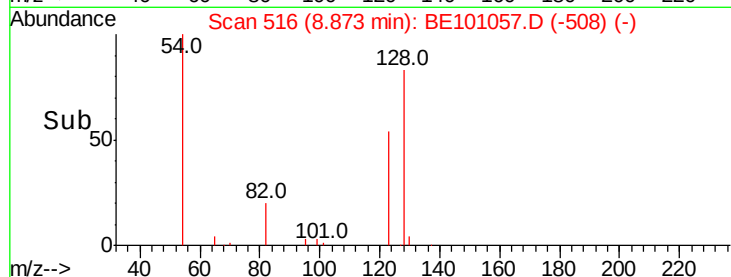


Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): BE1

Ion 54.00 (53.70 to 54.70): BE1

Time-->



#9

Naphthalene

Concen: 1.120 ng

RT: 10.55 min Scan# 645

Delta R.T. -0.00 min

Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

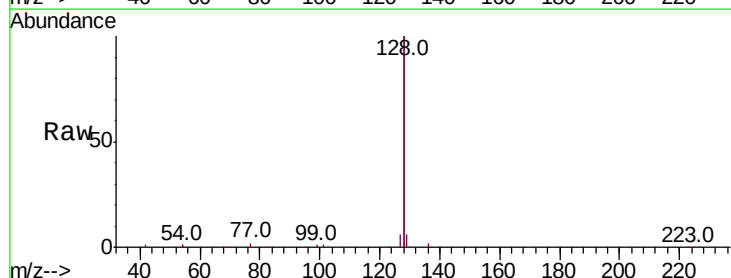
Tgt Ion: 128 Resp: 244567

Ion Ratio Lower Upper

128 100

129 2.8 2.3 3.5

127 3.2 2.7 4.1

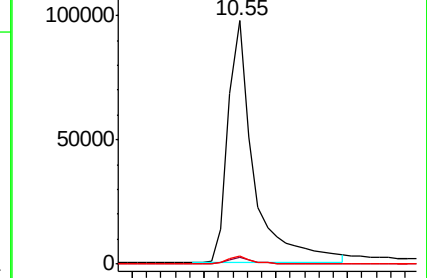
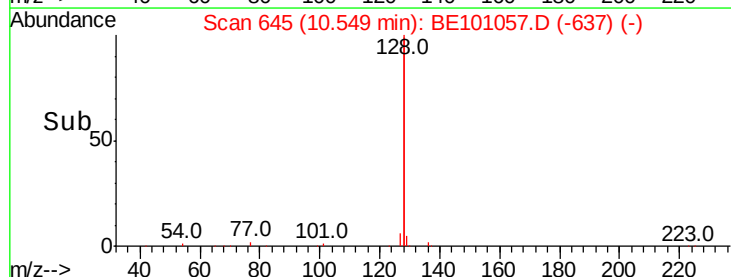


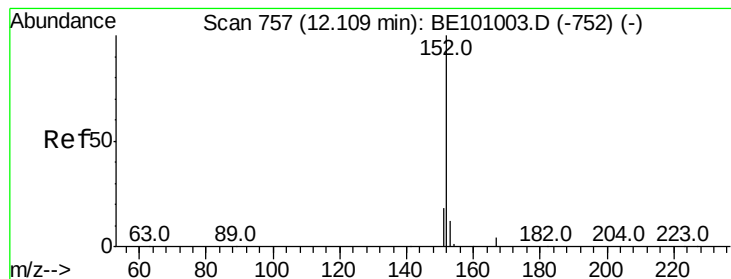
Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

Time-->





#11

2-Methylnaphthalene-d10

Concen: 0.019 ng

RT: 12.09 min Scan# 755

Delta R.T. -0.02 min

Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

Instrument :

BNA_E

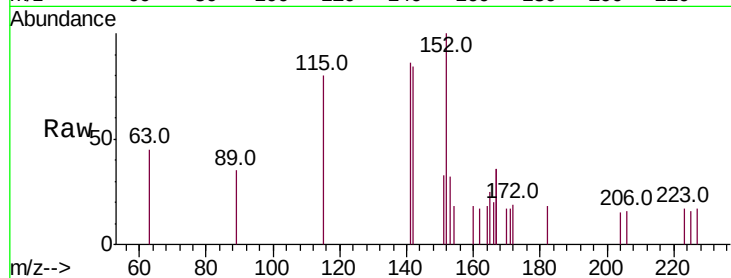
ClientSampleId :

Tot Ion:152 Resp: 729

Ion Ratio Lower Upper

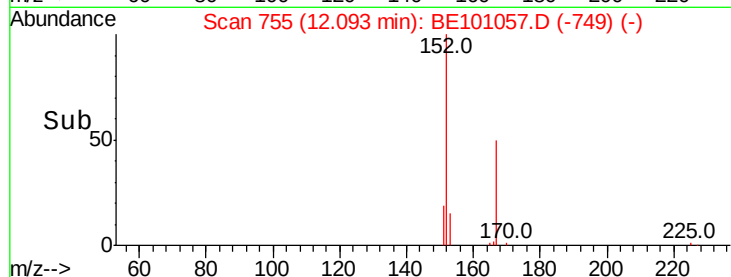
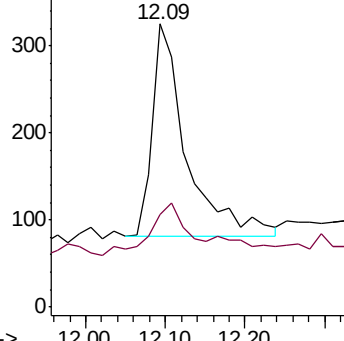
152 100

151 18.2 15.0 22.6

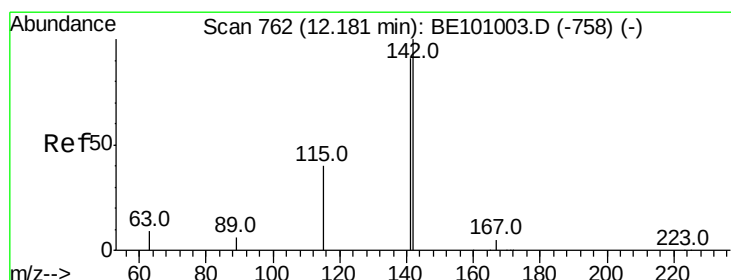


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



Time-->



#12

2-Methylnaphthalene

Concen: 0.491 ng

RT: 12.17 min Scan# 760

Delta R.T. -0.02 min

Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

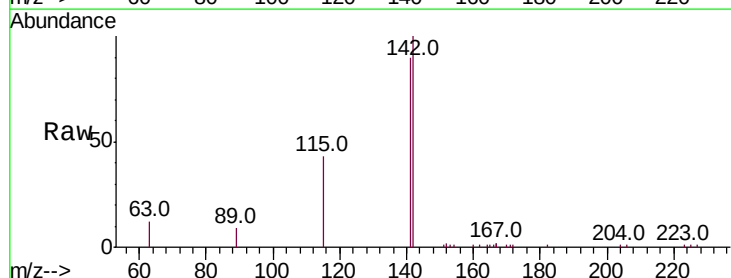
Tgt Ion:142 Resp: 16210

Ion Ratio Lower Upper

142 100

141 89.9 72.5 108.7

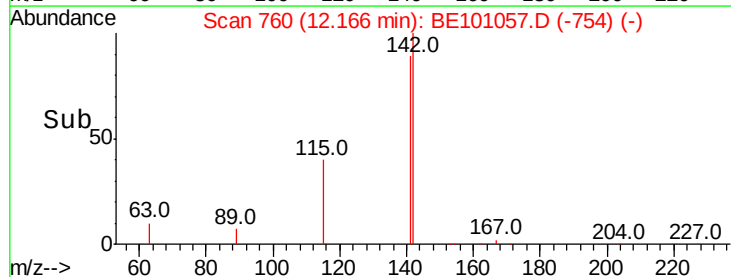
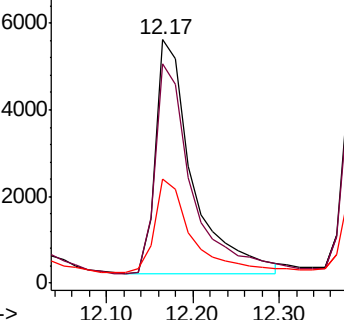
115 42.9 33.0 49.6



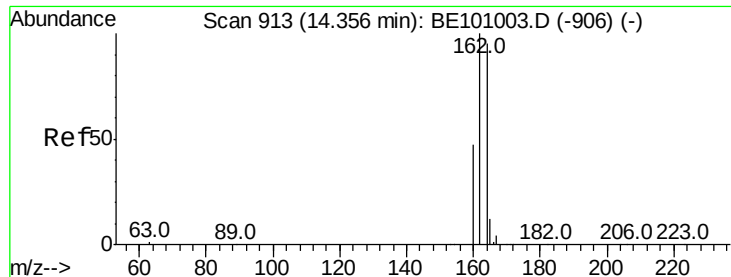
Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



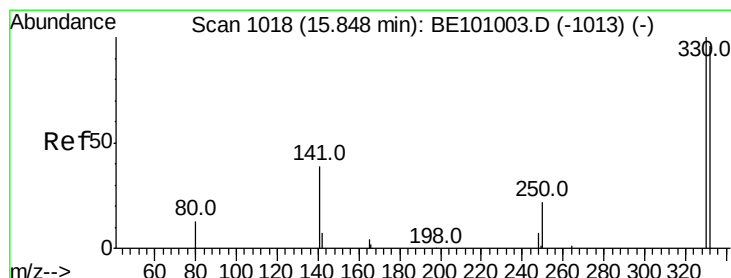
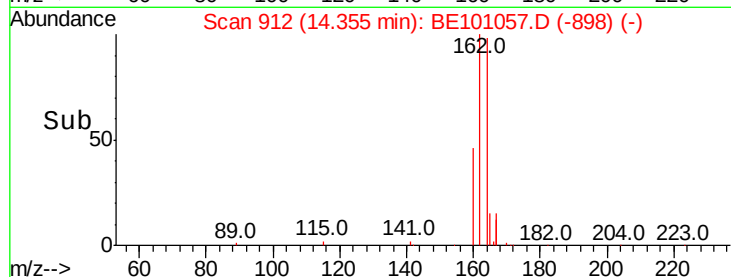
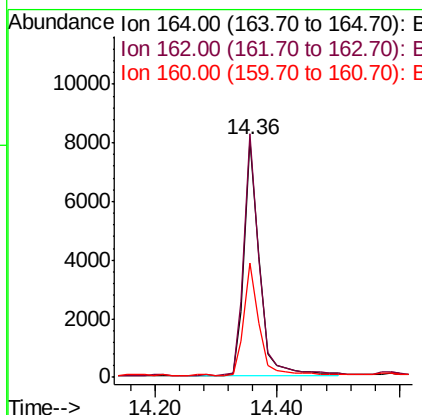
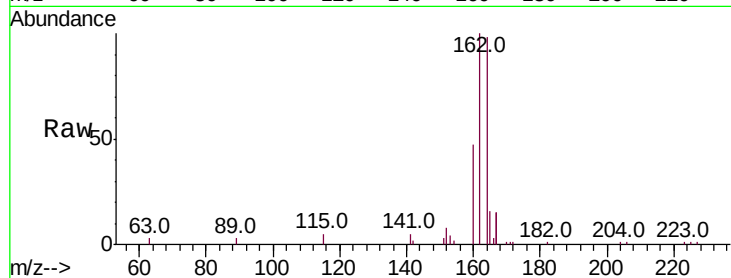
Time-->



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.36 min Scan# 912
 Delta R.T. -0.00 min
 Lab File: BE101057.D
 Acq: 14 Jan 2020 18:27

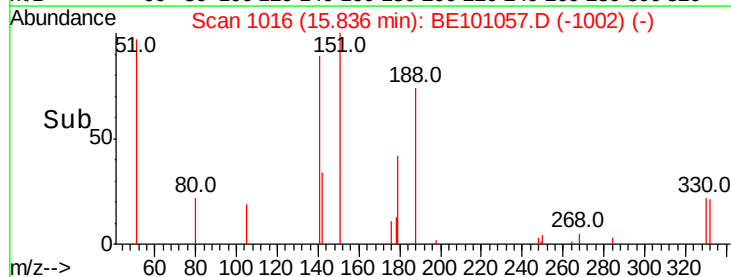
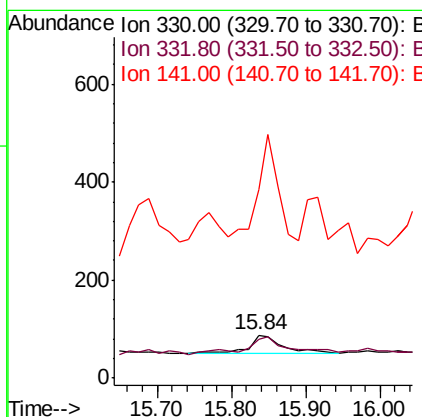
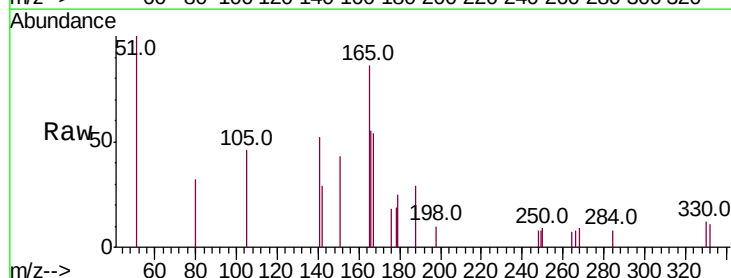
Instrument :
 BNA_E
 ClientSampleId :

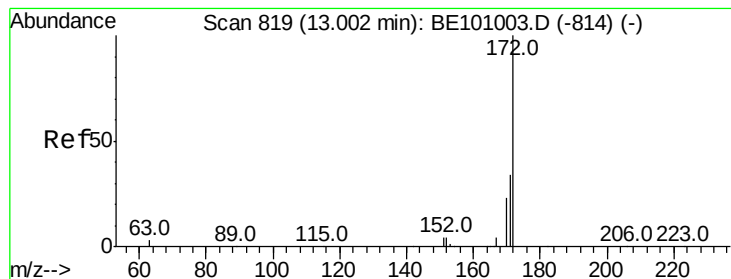
Tot Ion:164 Resp: 14138
 Ion Ratio Lower Upper
 164 100
 162 102.4 84.1 126.1
 160 47.8 40.4 60.6



#14
 2,4,6-Tribromophenol
 Concen: 0.031 ng
 RT: 15.84 min Scan# 1016
 Delta R.T. -0.01 min
 Lab File: BE101057.D
 Acq: 14 Jan 2020 18:27

Tgt Ion:330 Resp: 123
 Ion Ratio Lower Upper
 330 100
 332 78.0 78.4 117.6#
 141 379.7 37.0 55.4#





#15

2-Fluorobiphenyl

Concen: 0.020 ng

RT: 12.99 min Scan# 817

Delta R.T. -0.02 min

Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

Instrument :

BNA_E

ClientSampleId :

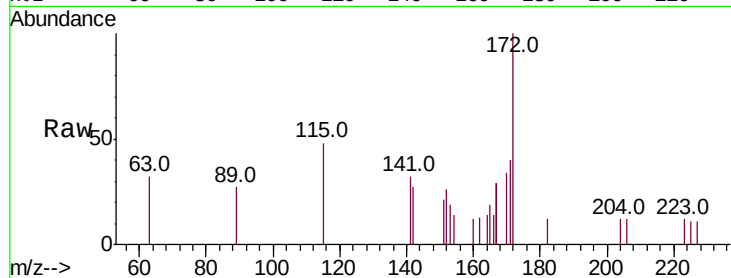
Tot Ion:172 Resp: 1077

Ion Ratio Lower Upper

172 100

171 39.9 28.2 42.2

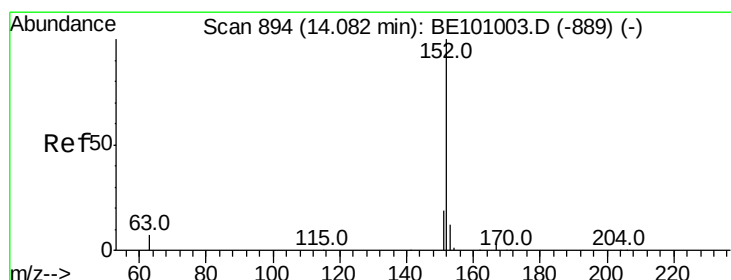
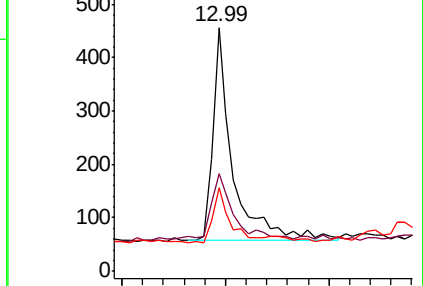
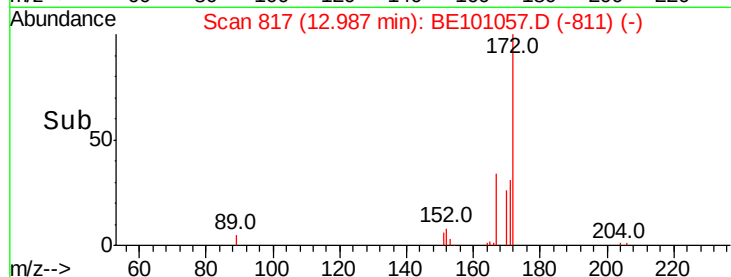
170 34.2 18.9 28.3#



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16

Acenaphthylene

Concen: 0.954 ng

RT: 14.08 min Scan# 893

Delta R.T. -0.00 min

Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

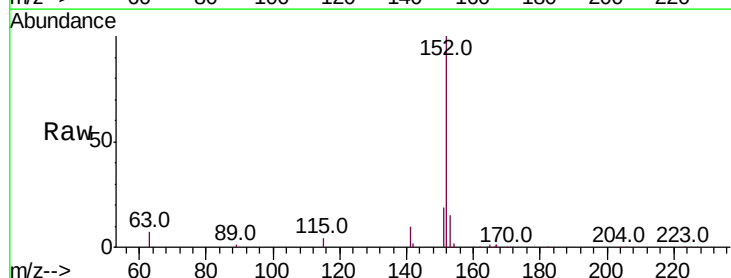
Tgt Ion:152 Resp: 54944

Ion Ratio Lower Upper

152 100

151 19.9 15.5 23.3

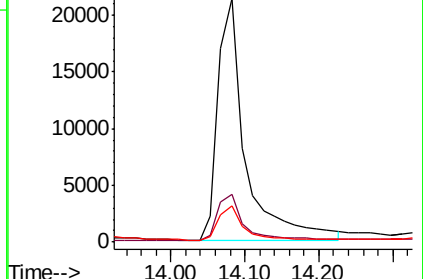
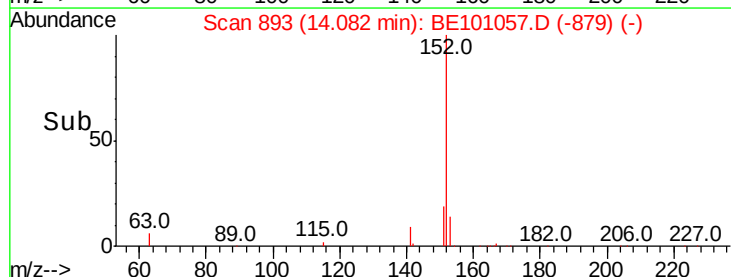
153 13.4 10.4 15.6

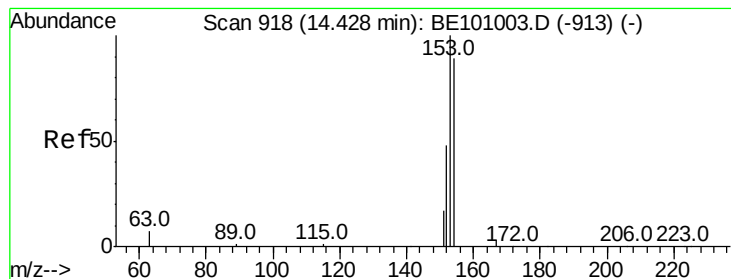


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.048 ng

RT: 14.41 min Scan# 916

Delta R.T. -0.02 min

Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

Instrument :

BNA_E

ClientSampleId :

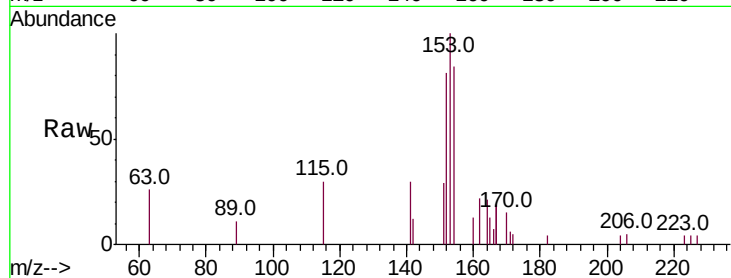
Tot Ion:154 Resp: 1972

Ion Ratio Lower Upper

154 100

153 118.5 93.6 140.4

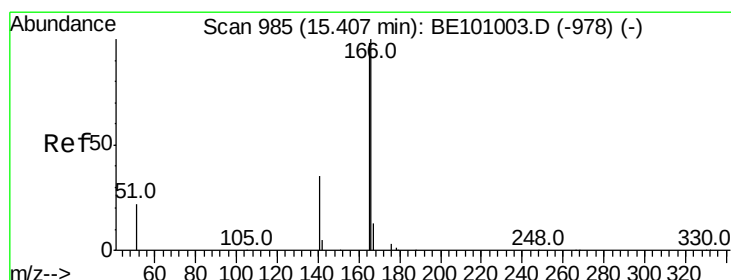
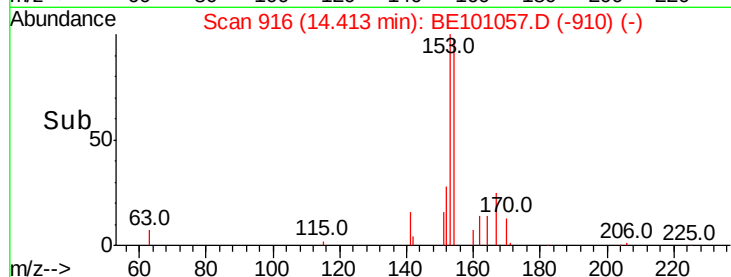
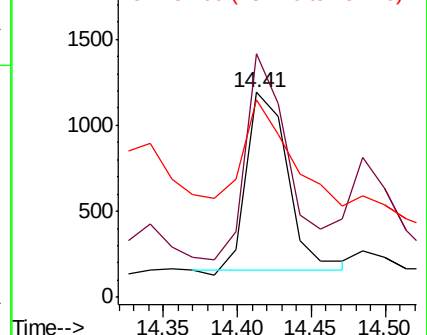
152 95.3 46.3 69.5#



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: 0.328 ng

RT: 15.39 min Scan# 983

Delta R.T. -0.01 min

Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

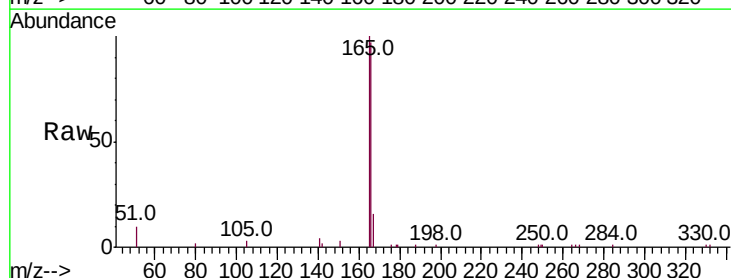
Tgt Ion:166 Resp: 17096

Ion Ratio Lower Upper

166 100

165 102.5 79.8 119.8

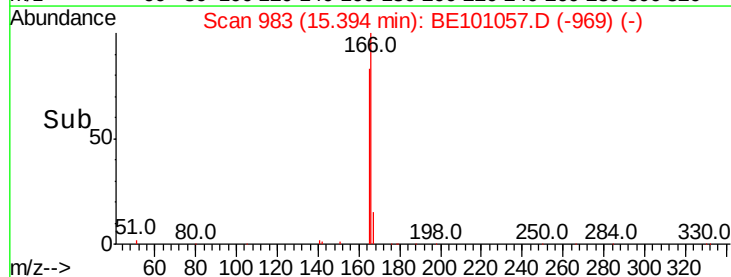
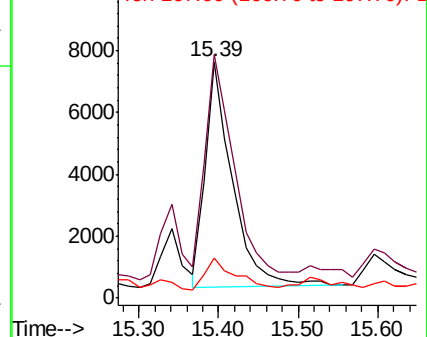
167 15.8 11.0 16.6

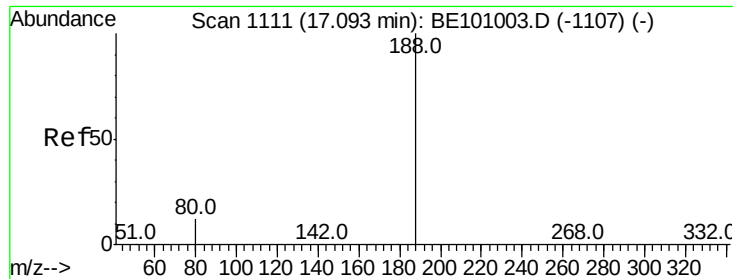


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.09 min Scan# 1110

Delta R.T. 0.00 min

Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

Instrument :

BNA_E

ClientSampleId :

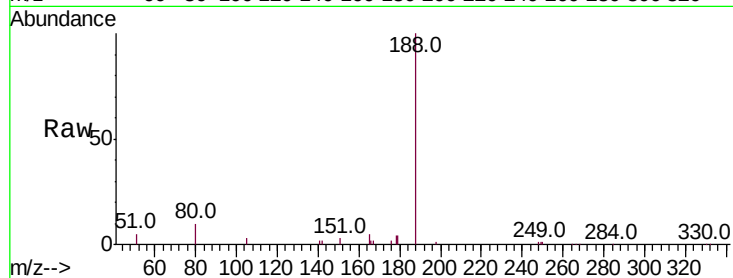
Tot Ion:188 Resp: 31774

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

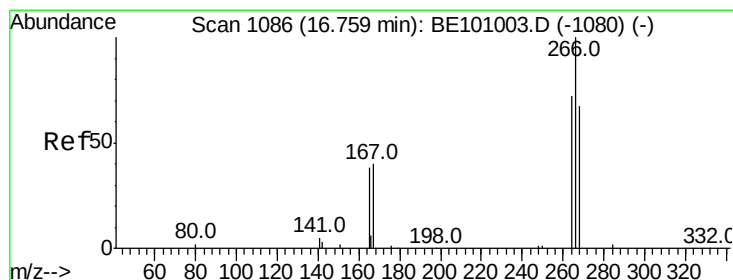
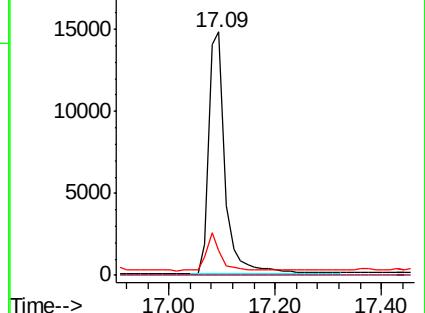
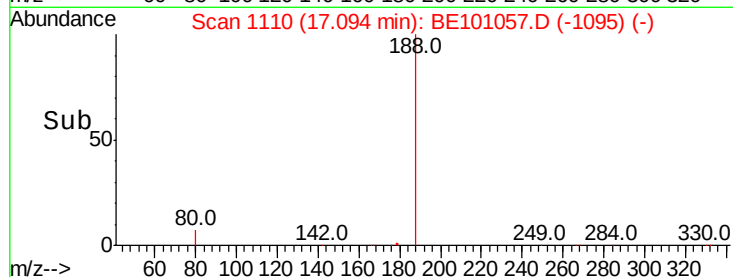
80 10.0 10.8 16.2#



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



#22

Pentachlorophenol

Concen: 0.254 ng

RT: 16.75 min Scan# 1084

Delta R.T. -0.01 min

Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

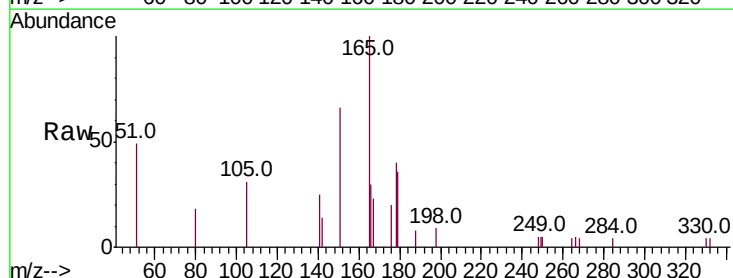
Tgt Ion:266 Resp: 26

Ion Ratio Lower Upper

266 100

264 89.0 61.0 91.4

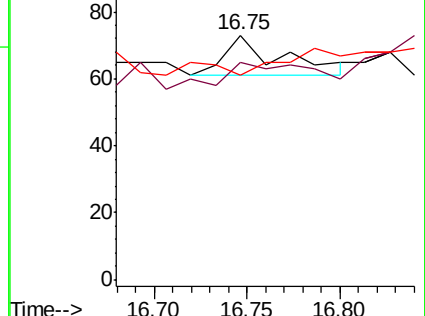
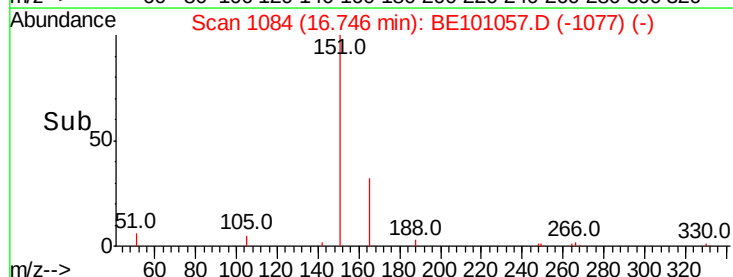
268 83.6 58.5 87.7

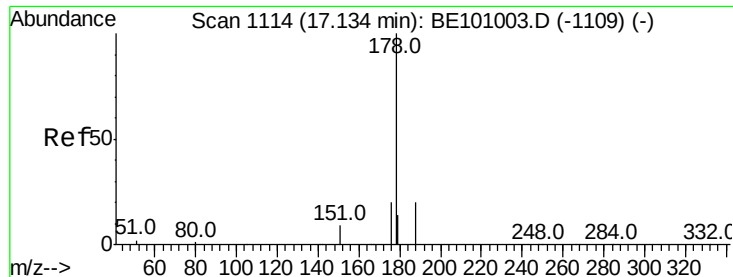


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 3.529 ng

RT: 17.13 min Scan# 1113

Delta R.T. 0.00 min

Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

Instrument :

BNA_E

ClientSampleId :

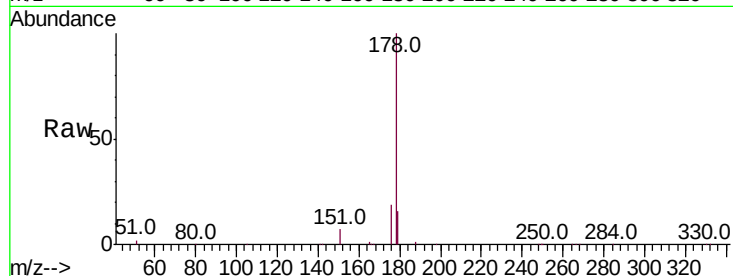
Tot Ion:178 Resp: 306213

Ion Ratio Lower Upper

178 100

176 19.3 15.7 23.5

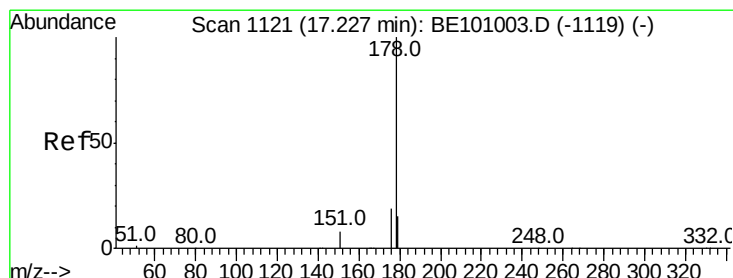
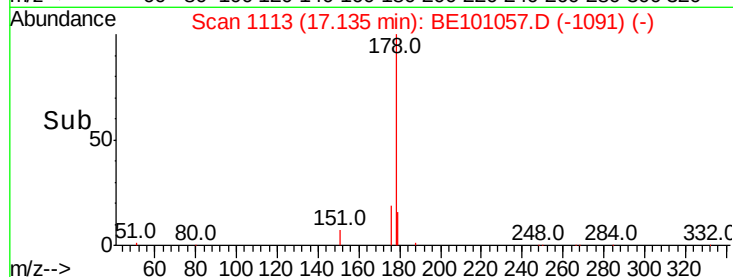
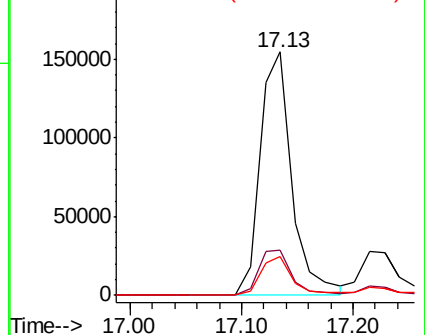
179 15.9 12.0 18.0



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: 0.794 ng

RT: 17.21 min Scan# 1119

Delta R.T. -0.01 min

Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

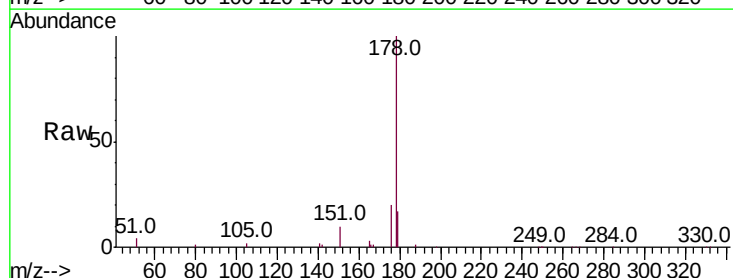
Tgt Ion:178 Resp: 64993

Ion Ratio Lower Upper

178 100

176 18.8 14.8 22.2

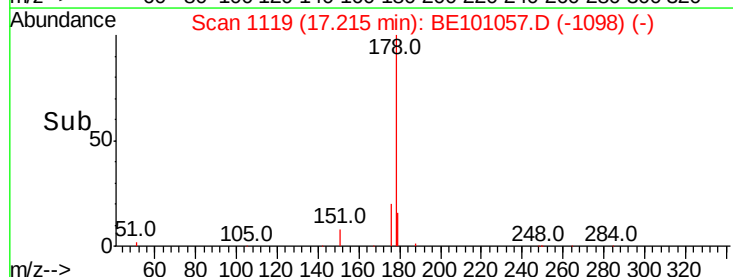
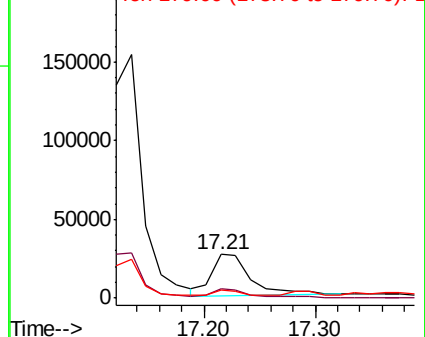
179 14.9 12.4 18.6

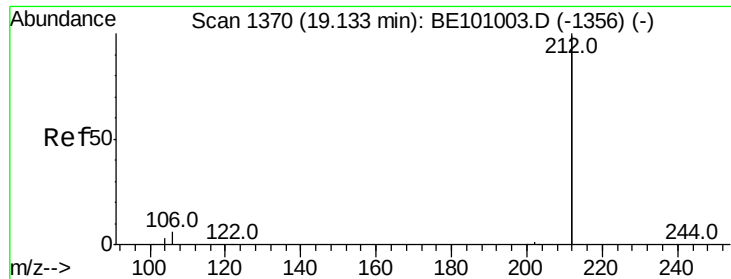


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

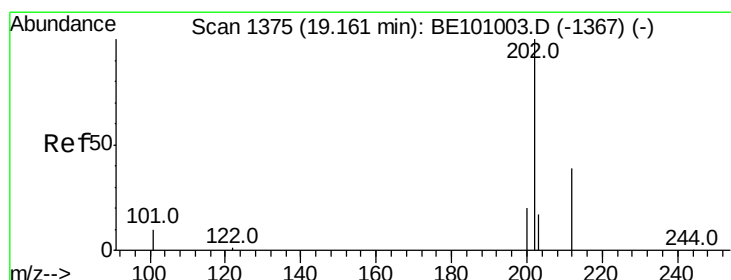
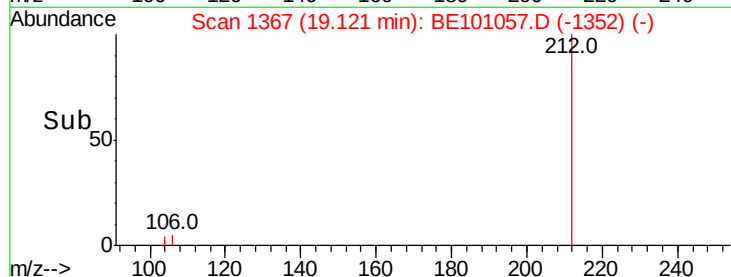
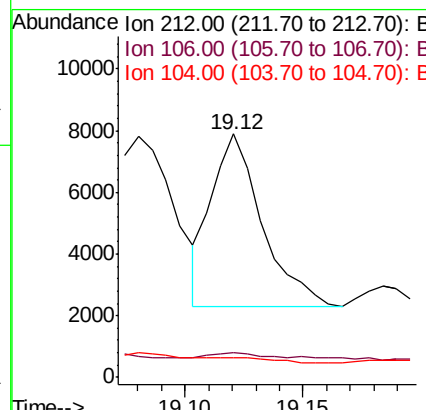
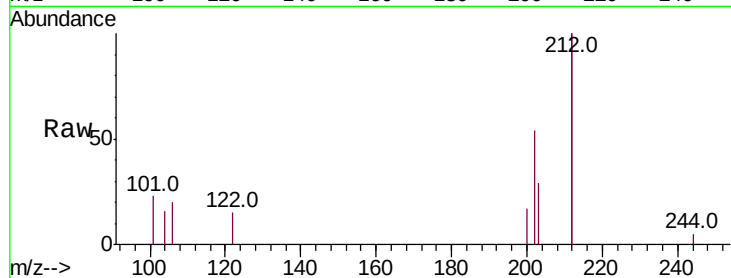




#25
Fluoranthene-d10
Concen: 0.019 ng
RT: 19.12 min Scan# 1367
Delta R.T. -0.01 min
Lab File: BE101057.D
Acq: 14 Jan 2020 18:27

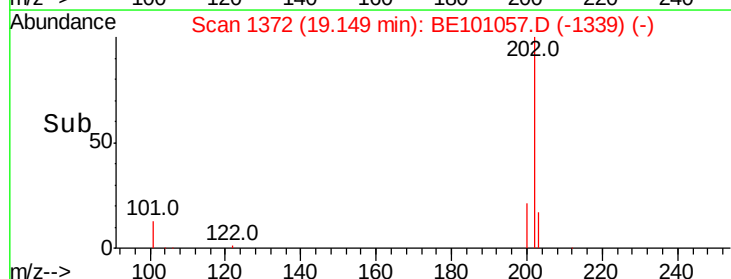
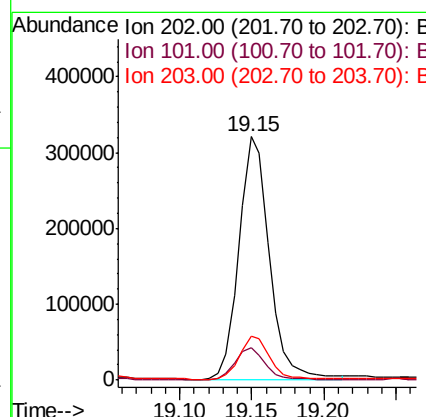
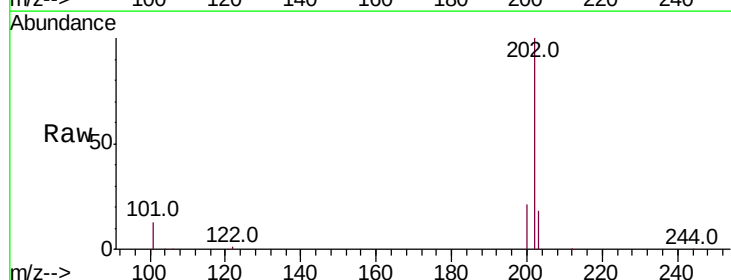
Instrument :
BNA_E
ClientSampleId :

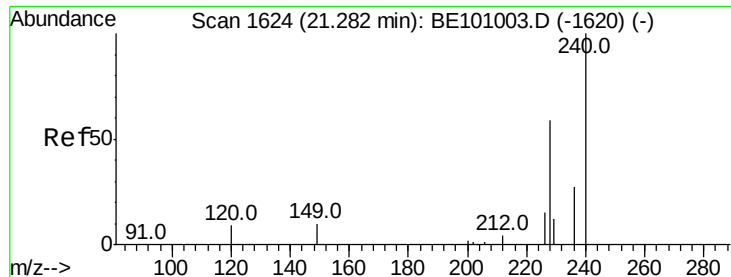
Tot Ion:212 Resp: 8422
Ion Ratio Lower Upper
212 100
106 6.7 2.6 3.8#
104 0.0 1.4 2.0#



#26
Fluoranthene
Concen: 4.333 ng
RT: 19.15 min Scan# 1372
Delta R.T. -0.01 min
Lab File: BE101057.D
Acq: 14 Jan 2020 18:27

Tgt Ion:202 Resp: 470821
Ion Ratio Lower Upper
202 100
101 12.9 9.6 14.4
203 17.7 13.8 20.6





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.27 min Scan# 1622

Delta R.T. -0.01 min

Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

Instrument :

BNA_E

ClientSampleId :

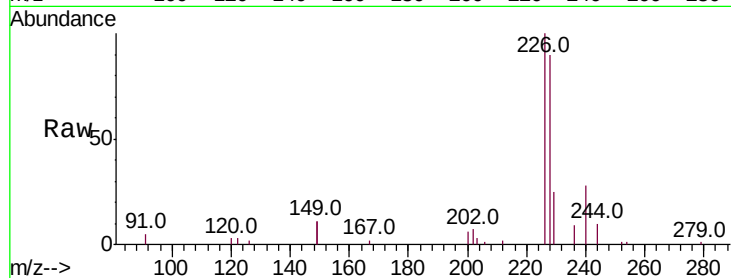
Tot Ion:240 Resp: 31018

Ion Ratio Lower Upper

240 100

120 12.2 8.6 13.0

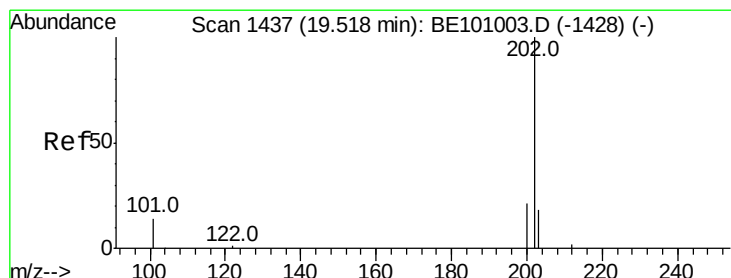
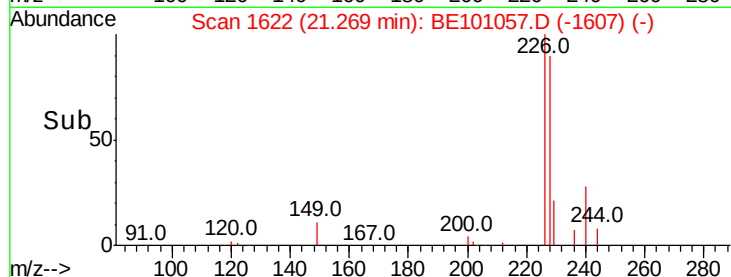
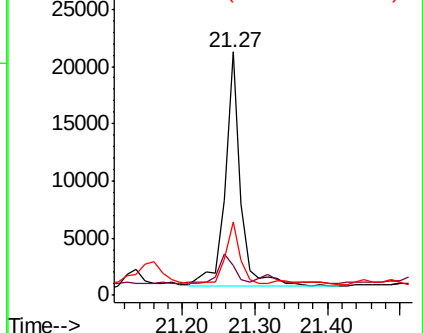
236 30.1 22.2 33.4



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: 6.619 ng

RT: 19.51 min Scan# 1435

Delta R.T. -0.01 min

Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

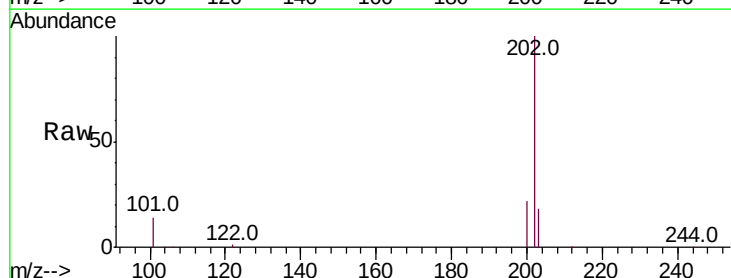
Tgt Ion:202 Resp: 764258

Ion Ratio Lower Upper

202 100

200 21.6 17.0 25.4

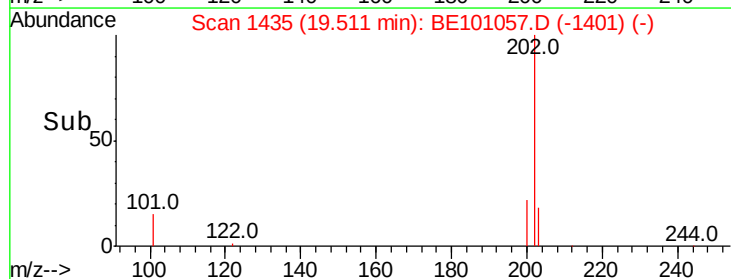
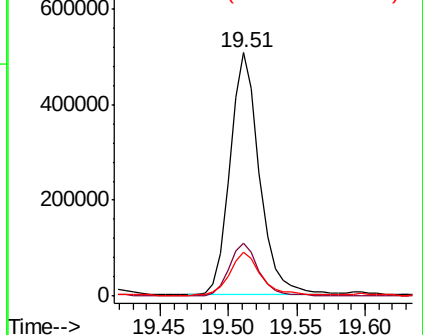
203 18.7 13.8 20.6

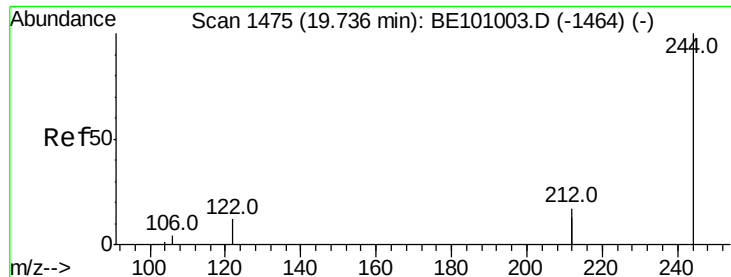


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.026 ng

RT: 19.72 min Scan# 1472

Delta R.T. -0.01 min

Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

Instrument :

BNA_E

ClientSampleId :

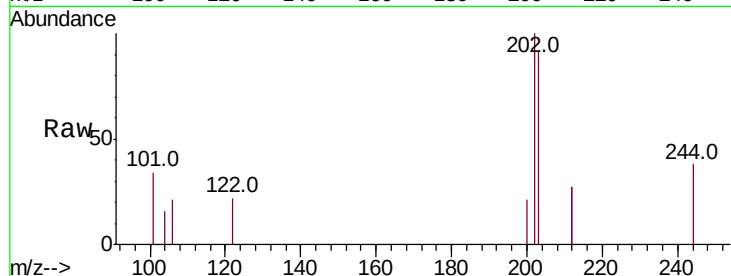
Tot Ion:244 Resp: 2000

Ion Ratio Lower Upper

244 100

212 139.6 27.2 40.8#

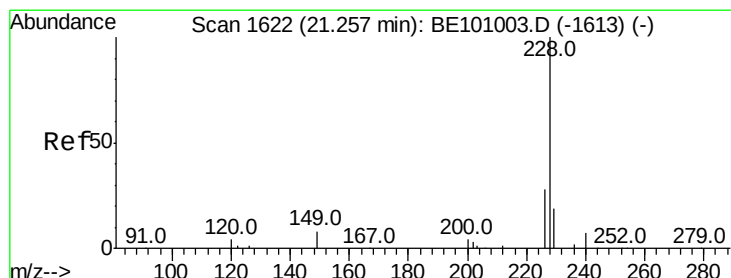
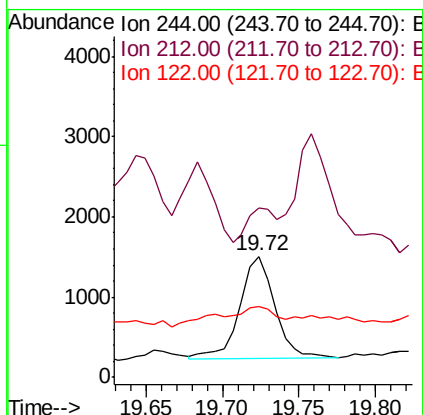
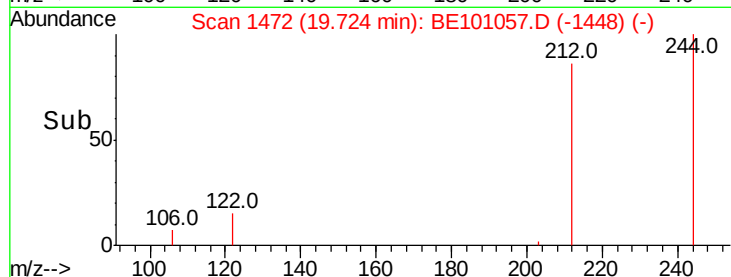
122 58.8 9.8 14.8#



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: 3.836 ng

RT: 21.31 min Scan# 1625

Delta R.T. 0.05 min

Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

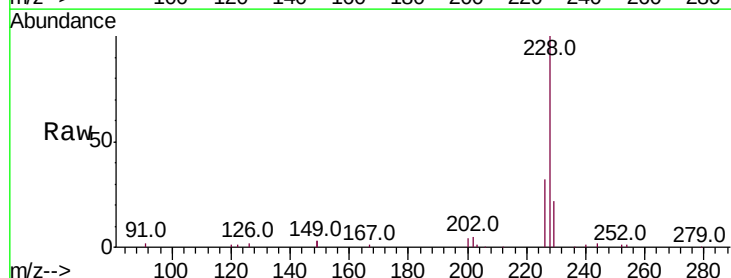
Tgt Ion:228 Resp: 339528

Ion Ratio Lower Upper

228 100

226 32.2 22.7 34.1

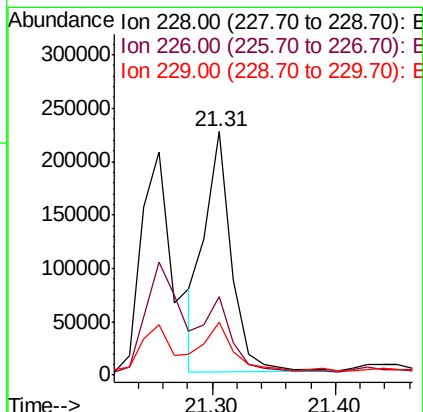
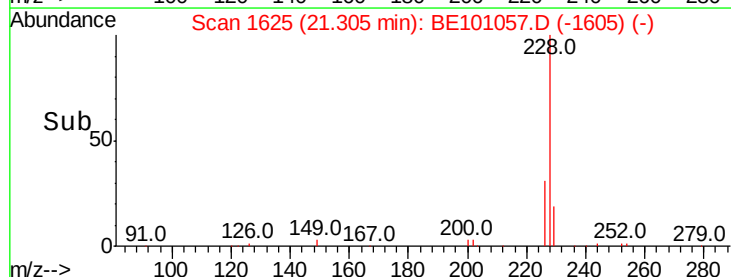
229 21.5 15.5 23.3

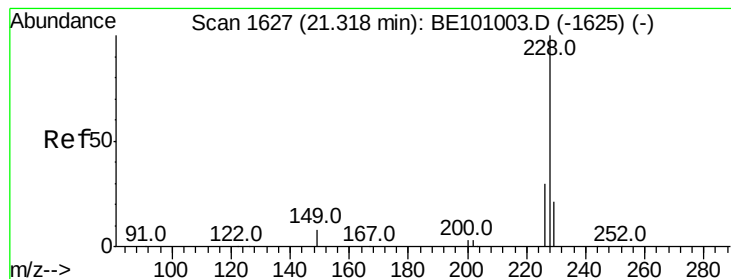


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 2.661 ng

RT: 21.31 min Scan# 1625

Delta R.T. -0.01 min

Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

Instrument :

BNA_E

ClientSampleId :

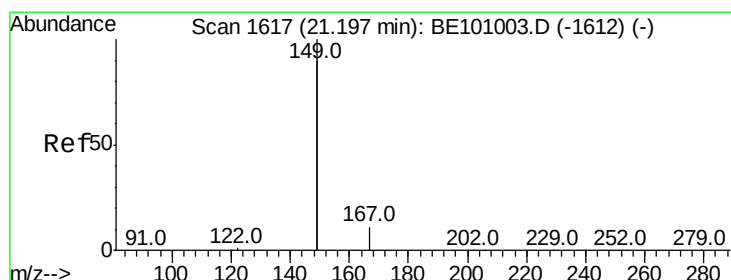
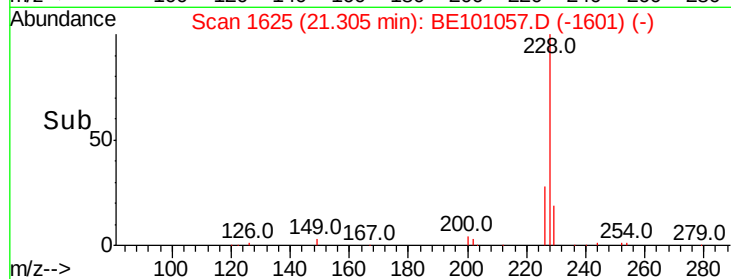
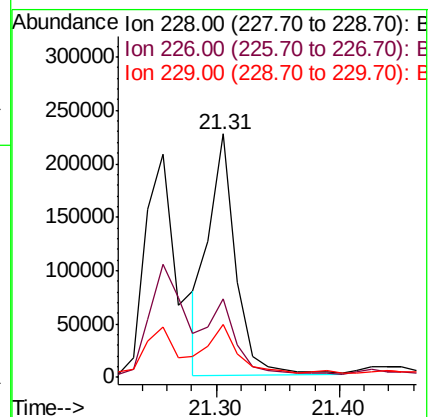
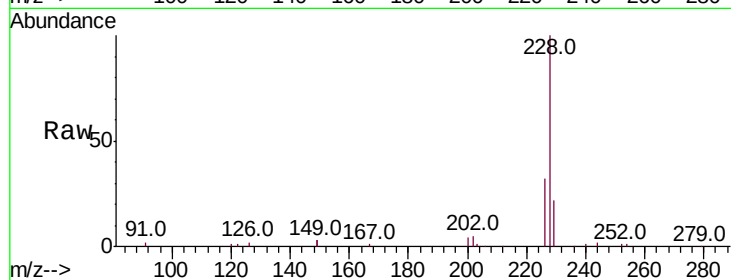
Tot Ion:228 Resp: 350025

Ion Ratio Lower Upper

228 100

226 32.2 23.5 35.3

229 21.5 16.7 25.1



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.247 ng

RT: 21.20 min Scan# 1616

Delta R.T. -0.00 min

Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

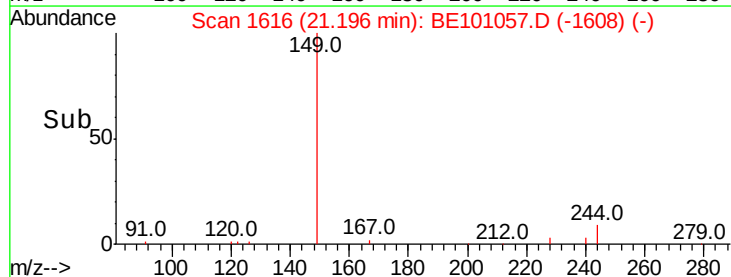
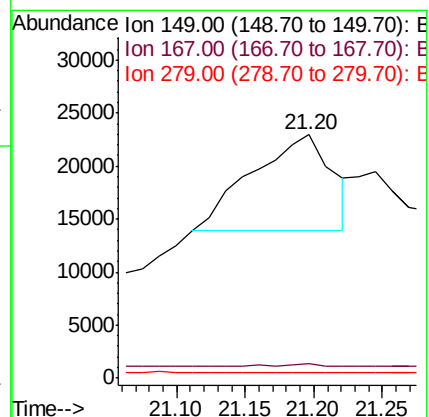
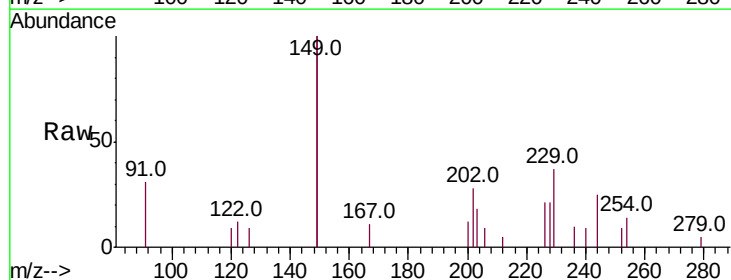
Tgt Ion:149 Resp: 36357

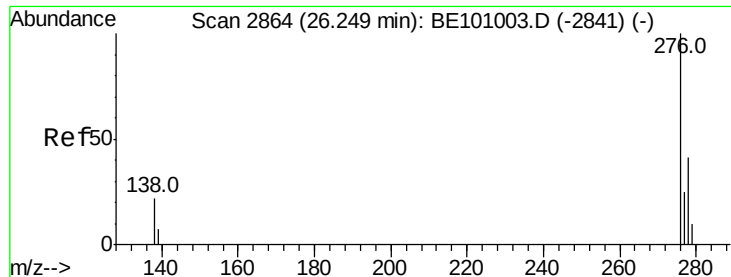
Ion Ratio Lower Upper

149 100

167 0.9 5.2 7.8#

279 0.4 0.8 1.2#





#33

Indeno(1,2,3-cd)pyrene

Concen: 3.154 ng

RT: 26.23 min Scan# 2858

Delta R.T. -0.02 min

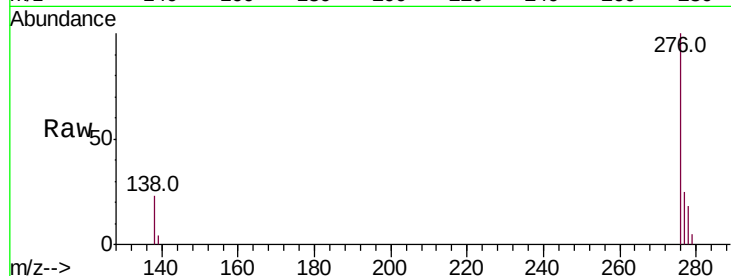
Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

Instrument :

BNA_E

ClientSampleId :



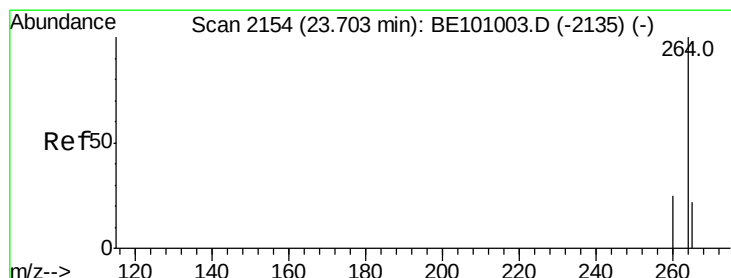
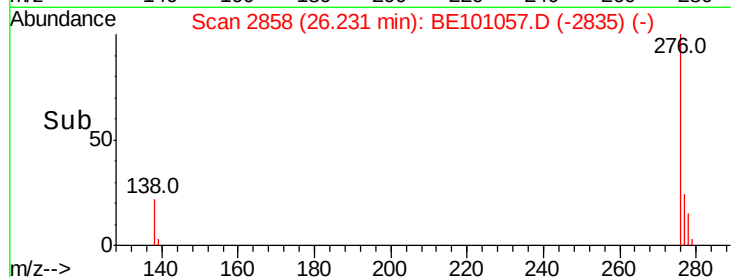
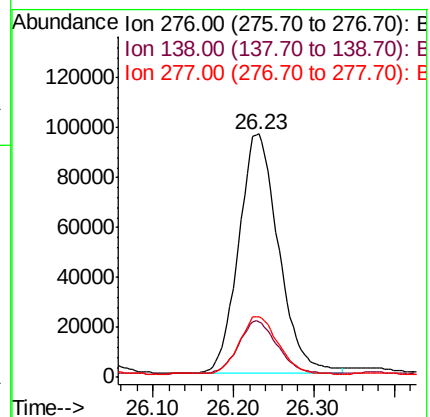
Tot Ion:276 Resp: 327811

Ion Ratio Lower Upper

276 100

138 21.8 16.1 24.1

277 23.4 18.1 27.1



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.69 min Scan# 2149

Delta R.T. -0.01 min

Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

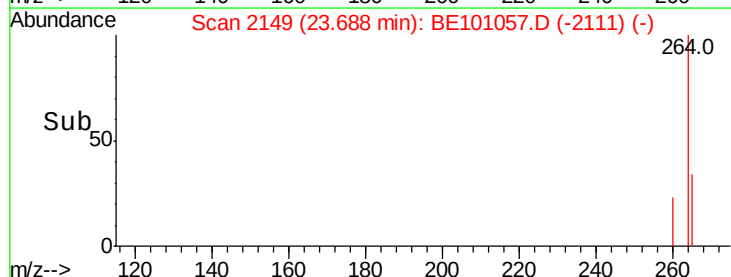
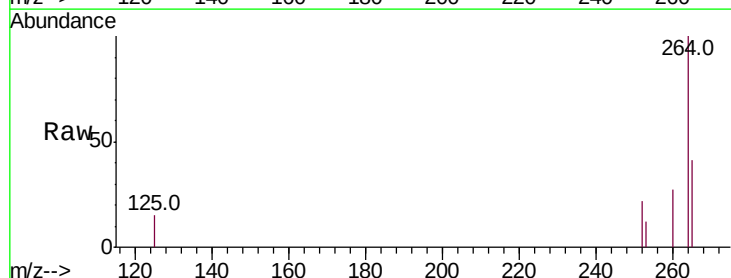
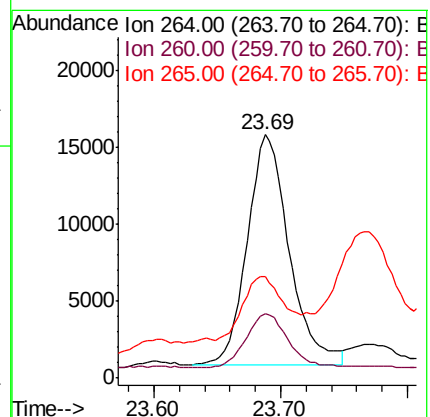
Tgt Ion:264 Resp: 34432

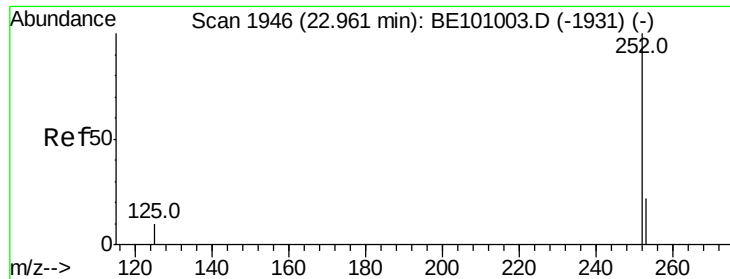
Ion Ratio Lower Upper

264 100

260 26.6 20.3 30.5

265 41.5 27.0 40.4#

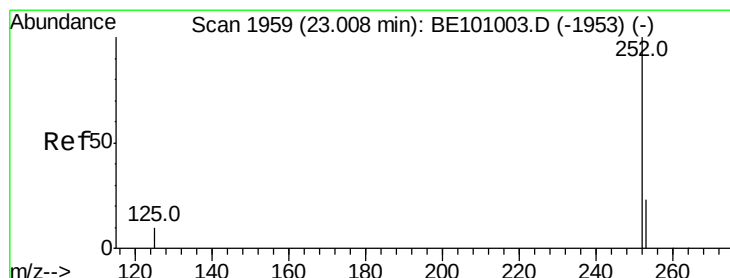
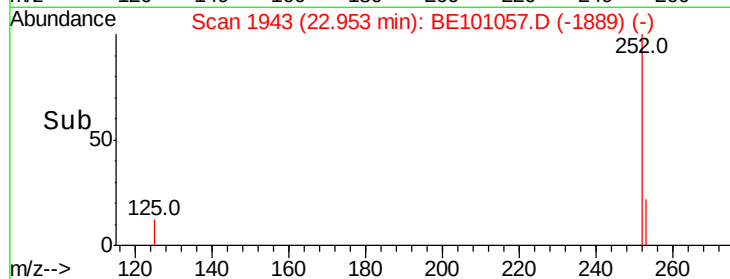
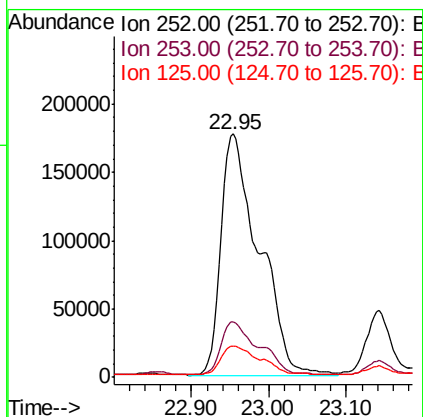
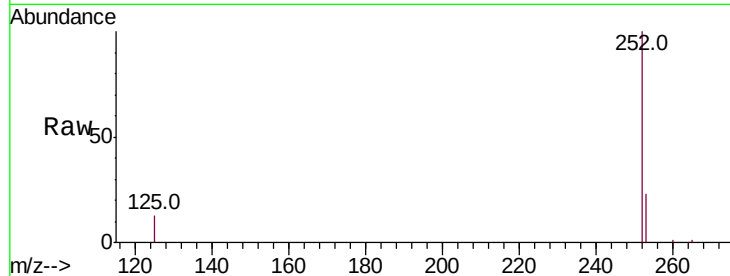




#35
Benzo(b)fluoranthene
Concen: 6.229 ng
RT: 22.95 min Scan# 1943
Delta R.T. -0.01 min
Lab File: BE101057.D
Acq: 14 Jan 2020 18:27

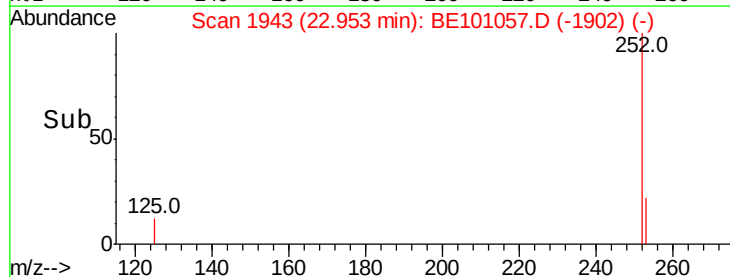
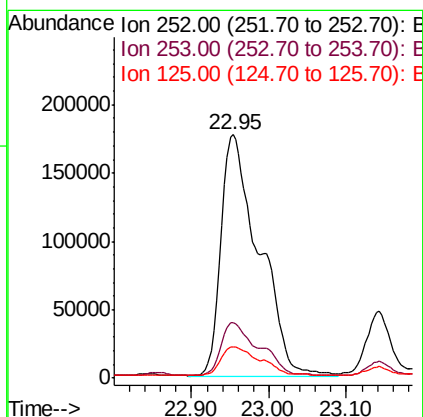
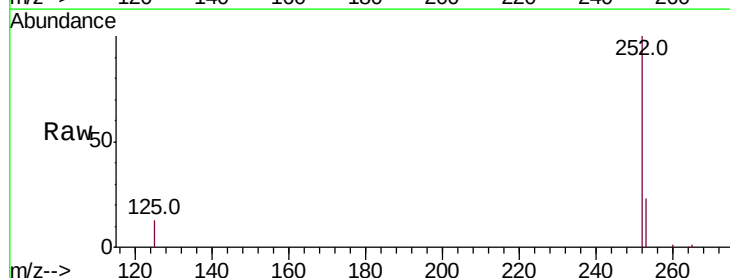
Instrument :
BNA_E
ClientSampleId :

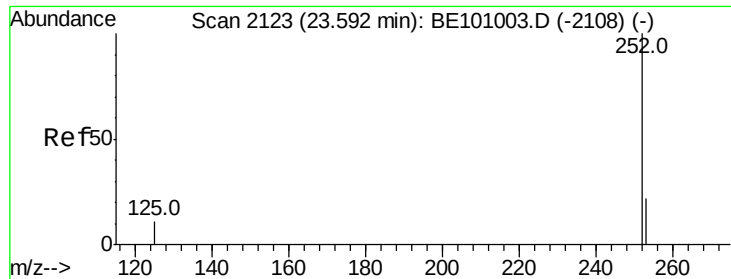
Tot Ion:252 Resp: 601533
Ion Ratio Lower Upper
252 100
253 22.9 18.5 27.7
125 12.9 9.5 14.3



#36
Benzo(k)fluoranthene
Concen: 4.299 ng
RT: 22.95 min Scan# 1943
Delta R.T. -0.05 min
Lab File: BE101057.D
Acq: 14 Jan 2020 18:27

Tgt Ion:252 Resp: 601533
Ion Ratio Lower Upper
252 100
253 22.9 18.9 28.3
125 12.9 10.1 15.1





#37

Benzo(a)pyrene

Concen: 3.784 ng

RT: 23.58 min Scan# 2119

Delta R.T. -0.01 min

Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

Instrument :

BNA_E

ClientSampleId :

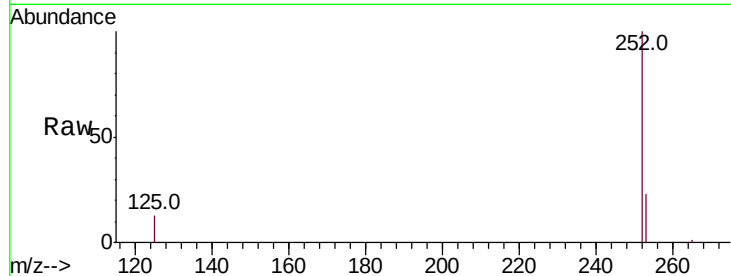
Tot Ion:252 Resp: 353448

Ion Ratio Lower Upper

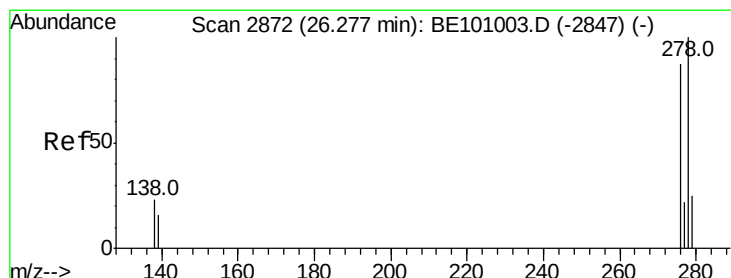
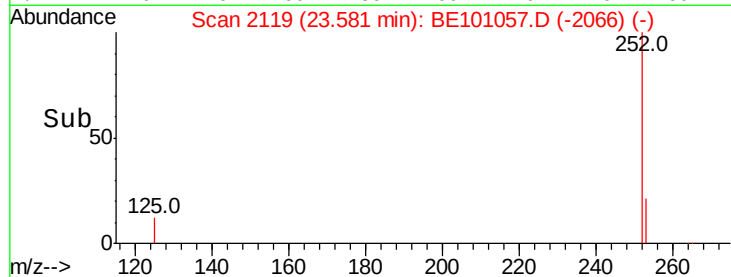
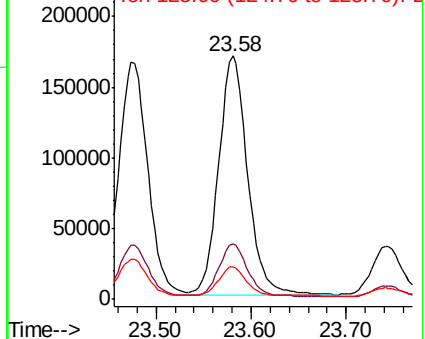
252 100

253 22.7 19.4 29.2

125 13.1 11.8 17.6



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: 0.775 ng

RT: 26.24 min Scan# 2861

Delta R.T. -0.03 min

Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

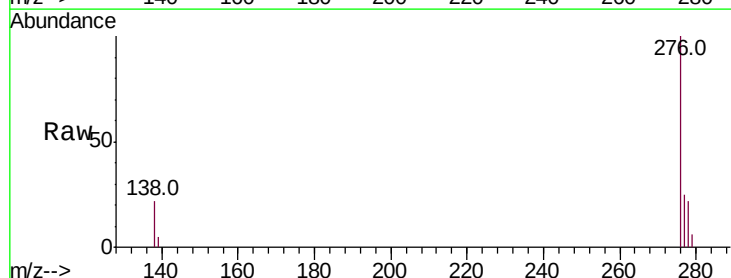
Tgt Ion:278 Resp: 66617

Ion Ratio Lower Upper

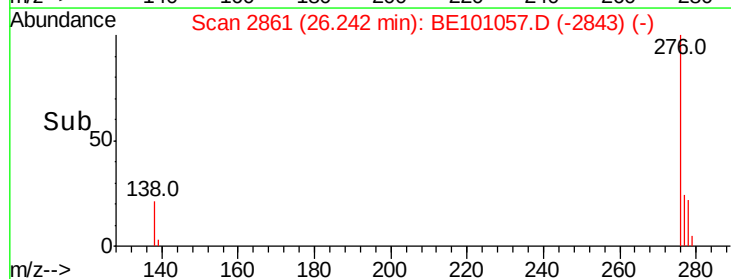
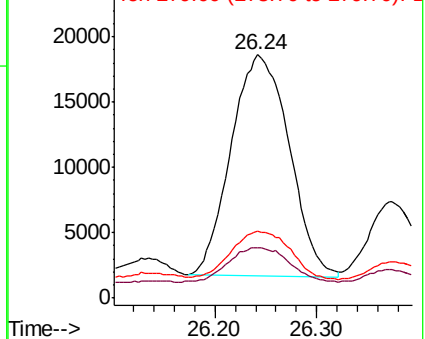
278 100

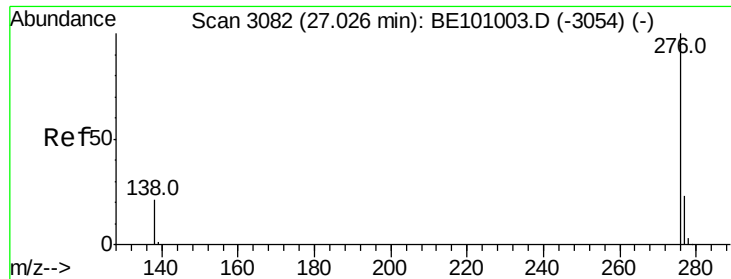
139 20.8 15.0 22.4

279 27.7 22.6 33.8



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: 3.864 ng

RT: 27.02 min Scan# 3078

Delta R.T. -0.01 min

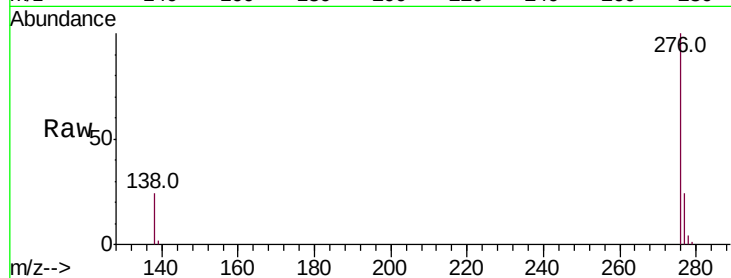
Lab File: BE101057.D

Acq: 14 Jan 2020 18:27

Instrument :

BNA_E

ClientSampleId :



Tot Ion:276 Resp: 408211

Ion Ratio Lower Upper

276 100

277 24.3 19.4 29.2

138 23.7 17.9 26.9

