

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101918\
 Data File : BE097999.D
 Acq On : 19 Oct 2018 19:42
 Operator : SJ/JU
 Sample : J5521-13DL2 50X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Oct 19 23:30:42 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE101618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 16 15:36:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.88	152	2144	0.40	ng	-0.01
7) Naphthalene-d8	10.68	136	11224	0.40	ng	-0.01
13) Acenaphthene-d10	14.54	164	9828	0.40	ng	-0.01
19) Phenanthrene-d10	17.29	188	19004	0.40	ng	-0.01
27) Chrysene-d12	21.48	240	21760	0.40	ng	-0.01
34) Perylene-d12	24.03	264	21521	0.40	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.46	112	38	0.01	ng	-0.01
5) Phenol-d6	7.05	99	75	0.01	ng	-0.01
8) Nitrobenzene-d5	9.02	82	1147	0.11	ng	-0.03
11) 2-Methylnaphthalene-d10	12.28	152	611	0.03	ng	-0.01
14) 2,4,6-Tribromophenol	16.03	330	43	0.01	ng	-0.01
15) 2-Fluorobiphenyl	13.16	172	358	0.01	ng	-0.01
25) Fluoranthene-d10	19.32	212	2475	0.01	ng	-0.01
29) Terphenyl-d14	19.92	244	762	0.02	ng	-0.01

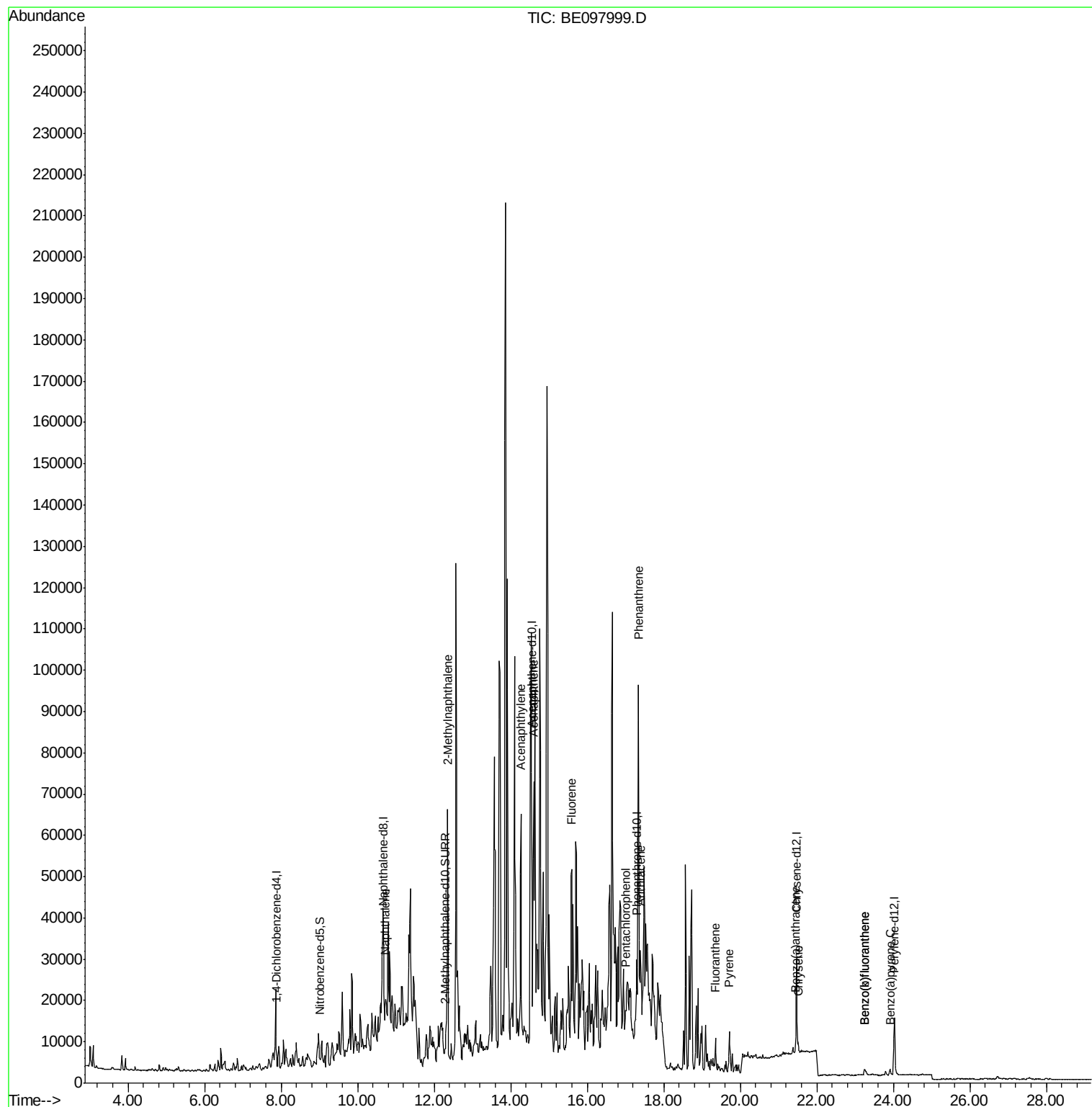
Target Compounds				Qvalue		
9) Naphthalene	10.73	128	11495	0.103	ng	# 59
12) 2-Methylnaphthalene	12.35	142	38163	1.993	ng	# 96
16) Acenaphthylene	14.27	152	7605	0.167	ng	# 1
17) Acenaphthene	14.60	154	11104	0.400	ng	# 43
18) Fluorene	15.59	166	34115	0.894	ng	# 72
22) Pentachlorophenol	17.01	266	164	0.097	ng	# 72
23) Phenanthrene	17.34	178	96814	2.005	ng	# 95
24) Anthracene	17.38	178	3040	0.067	ng	# 1
26) Fluoranthene	19.35	202	7337	0.116	ng	# 94
28) Pvrene	19.71	202	11147	0.178	ng	# 80
30) Benzo(a)anthracene	21.45	228	3427	0.051	ng	# 79
31) Chrysene	21.51	228	2249	0.036	ng	# 80
32) Bis(2-ethylhexyl)phthalate	21.38	149	2231	Below Cal	#	92
33) Indeno(1,2,3-cd)pyrene	26.71	276	1288	Below Cal	#	88
35) Benzo(b)fluoranthene	23.24	252	2928	0.047	ng	# 54
36) Benzo(k)fluoranthene	23.24	252	2928	0.045	ng	# 53
37) Benzo(a)pyrene	23.92	252	2112	0.035	ng	# 46

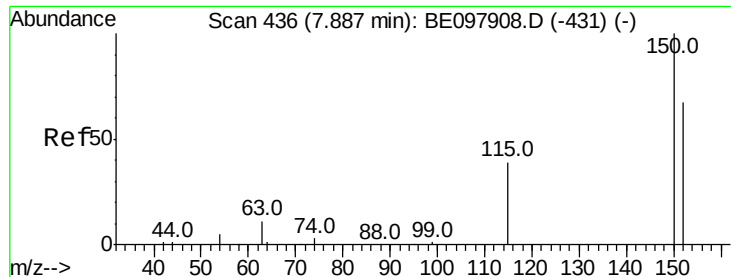
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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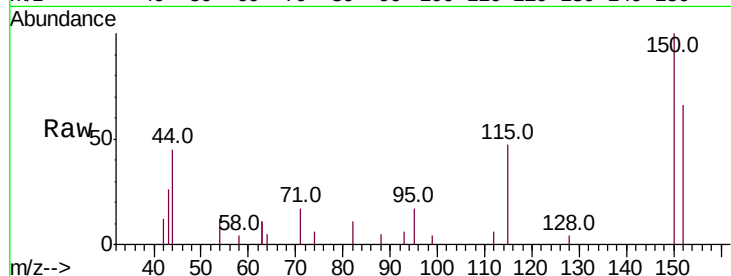


#1

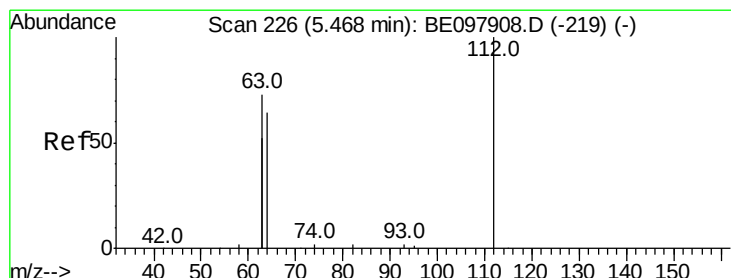
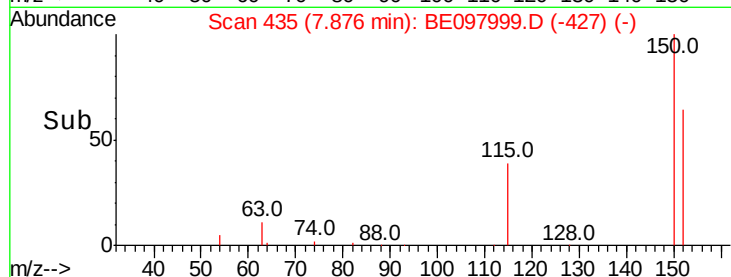
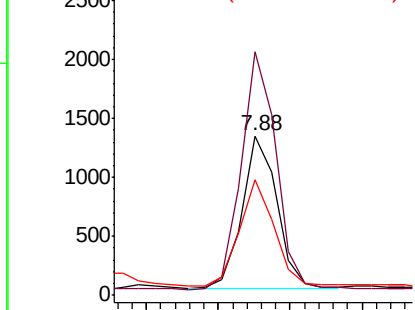
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.88 min Scan# 435
Delta R.T. -0.01 min
Lab File: BE097999.D
Acq: 19 Oct 2018 19:42

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 2144
Ion Ratio Lower Upper
152 100
150 152.5 118.2 177.4
115 72.1 50.9 76.3



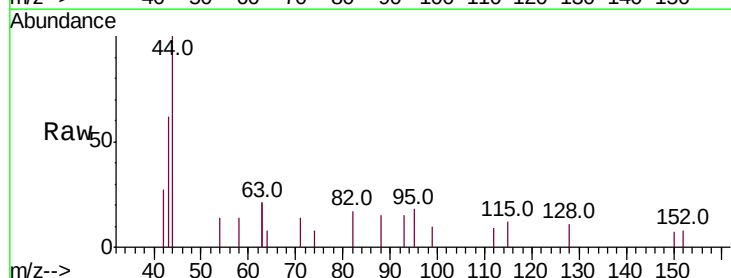
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



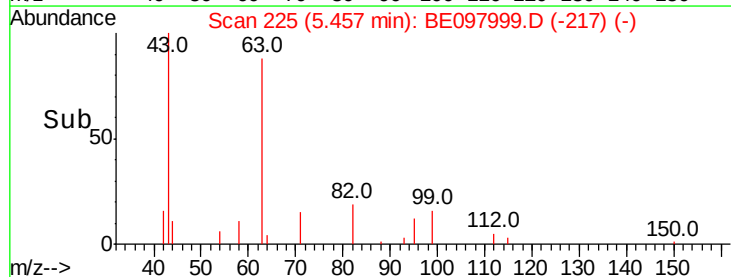
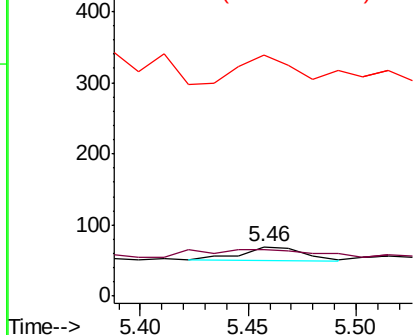
#4

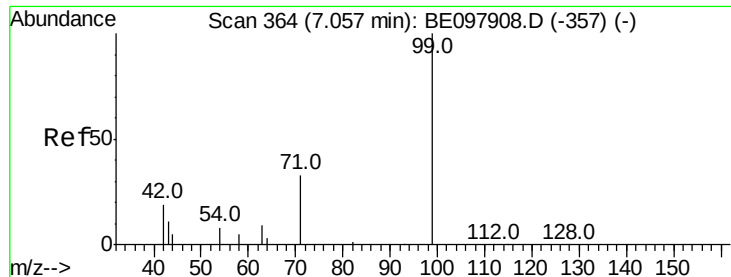
2-Fluorophenol
Concen: 0.006 ng
RT: 5.46 min Scan# 225
Delta R.T. -0.01 min
Lab File: BE097999.D
Acq: 19 Oct 2018 19:42

Tgt Ion:112 Resp: 38
Ion Ratio Lower Upper
112 100
64 0.0 58.9 88.3#
63 178.9 120.3 180.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.008 ng

RT: 7.05 min Scan# 363

Delta R.T. -0.01 min

Lab File: BE097999.D

Acq: 19 Oct 2018 19:42

Instrument :

BNA_E

ClientSampleId :

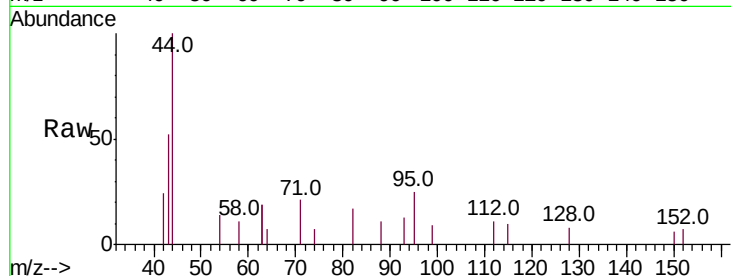
Tot Ion: 99 Resp: 75

Ion Ratio Lower Upper

99 100

42 0.0 19.9 29.9#

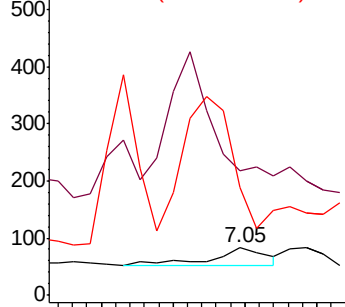
71 0.0 27.8 41.8#



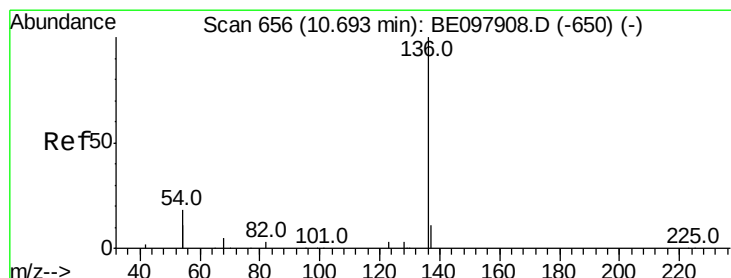
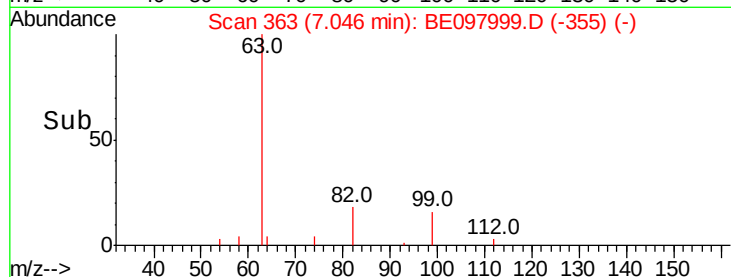
Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



Time-->



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.68 min Scan# 655

Delta R.T. -0.01 min

Lab File: BE097999.D

Acq: 19 Oct 2018 19:42

Tgt Ion: 136 Resp: 11224

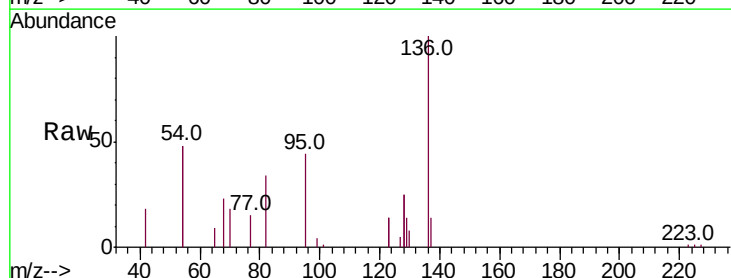
Ion Ratio Lower Upper

136 100

137 14.5 9.6 14.4#

54 96.5 27.7 41.5#

68 23.0 5.3 7.9#

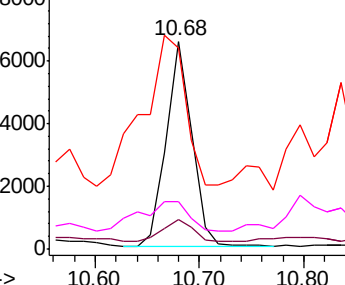


Abundance Ion 136.00 (135.70 to 136.70): E

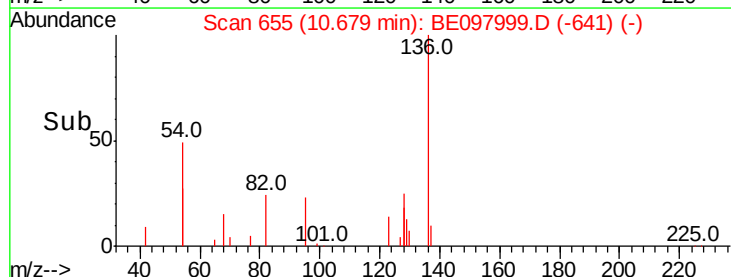
Ion 137.00 (136.70 to 137.70): E

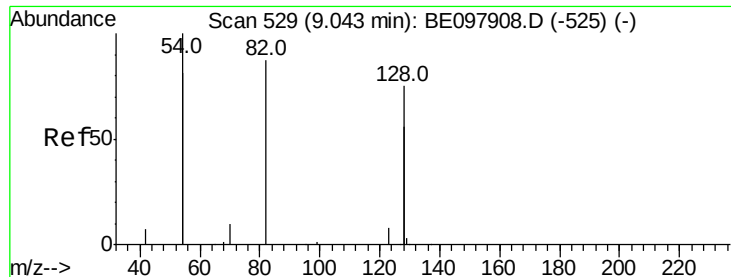
Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



Time-->

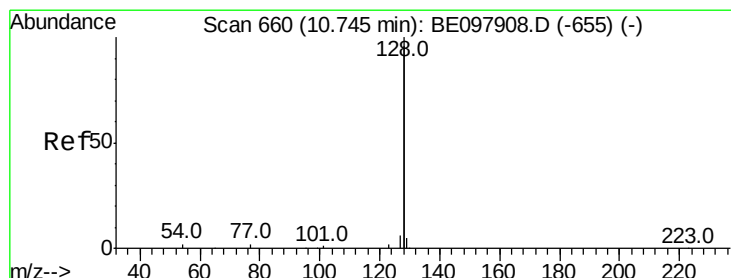
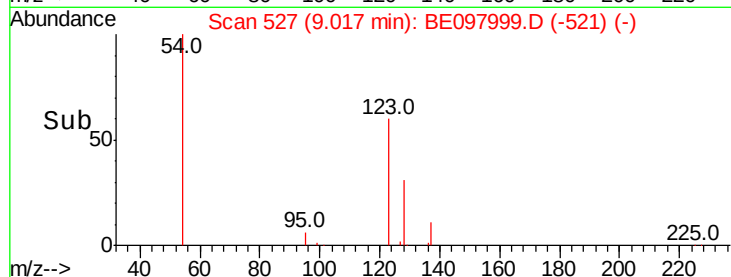
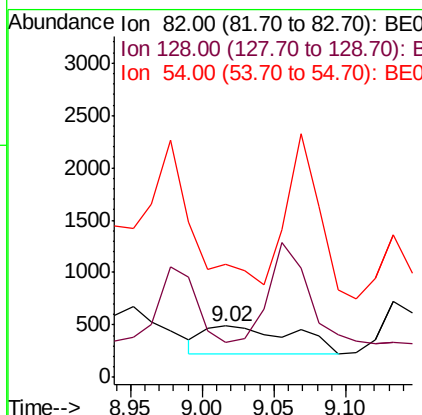
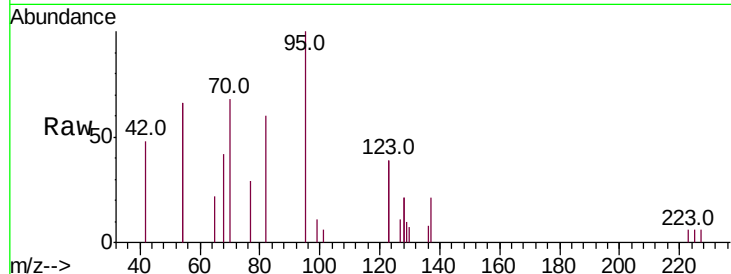




#8
 Nitrobenzene-d5
 Concen: 0.108 ng
 RT: 9.02 min Scan# 527
 Delta R.T. -0.03 min
 Lab File: BE097999.D
 Acq: 19 Oct 2018 19:42

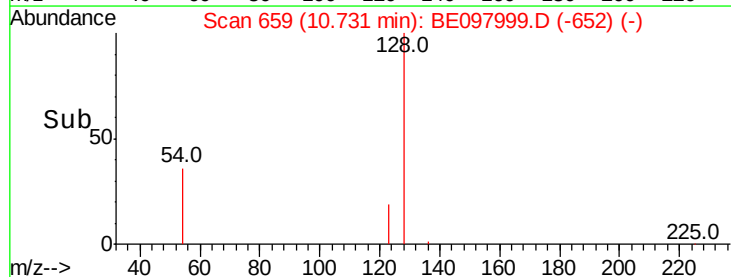
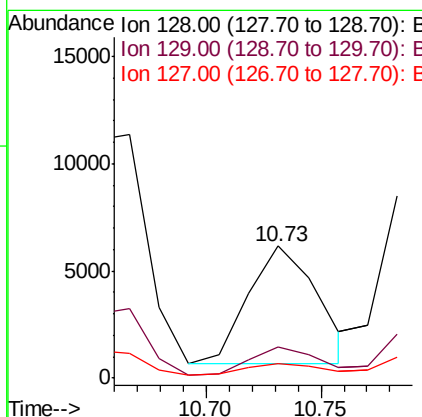
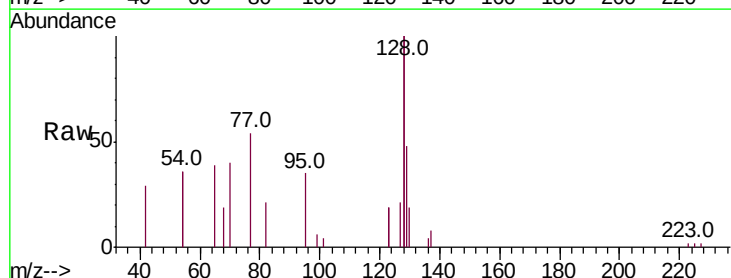
Instrument :
 BNA_E
 ClientSampleId :

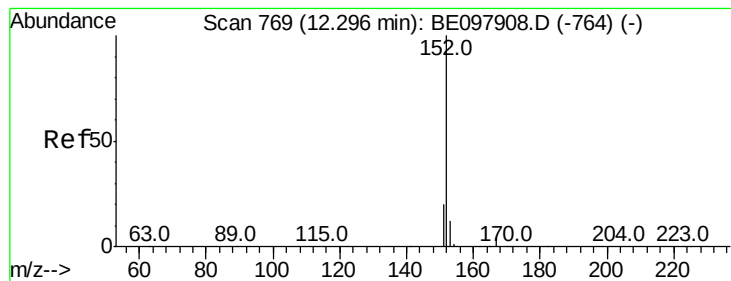
Tot Ion: 82 Resp: 1147
 Ion Ratio Lower Upper
 82 100
 128 68.7 129.9 194.9#
 54 219.5 174.0 261.0



#9
 Naphthalene
 Concen: 0.103 ng
 RT: 10.73 min Scan# 659
 Delta R.T. -0.01 min
 Lab File: BE097999.D
 Acq: 19 Oct 2018 19:42

Tgt Ion: 128 Resp: 11495
 Ion Ratio Lower Upper
 128 100
 129 23.8 2.5 3.7#
 127 10.7 2.8 4.2#





#11

2-Methylnaphthalene-d10

Concen: 0.033 ng

RT: 12.28 min Scan# 768

Delta R.T. -0.01 min

Lab File: BE097999.D

Acq: 19 Oct 2018 19:42

Instrument :

BNA_E

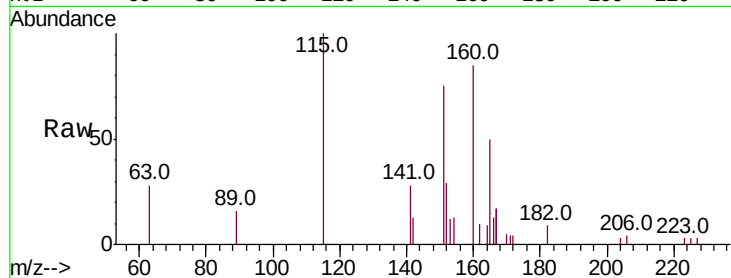
ClientSampleId :

Tot Ion:152 Resp: 611

Ion Ratio Lower Upper

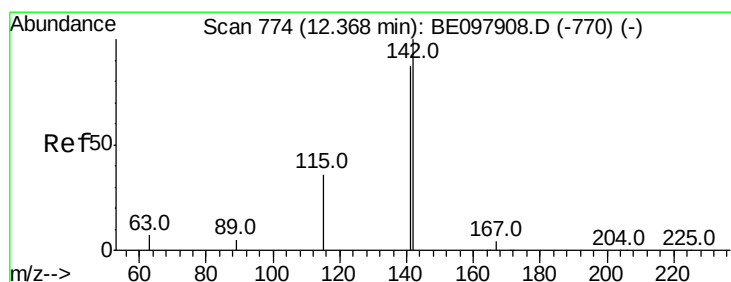
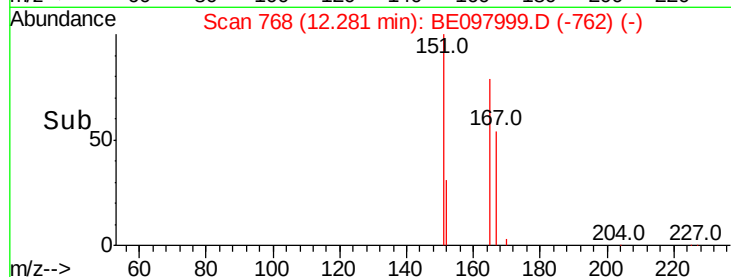
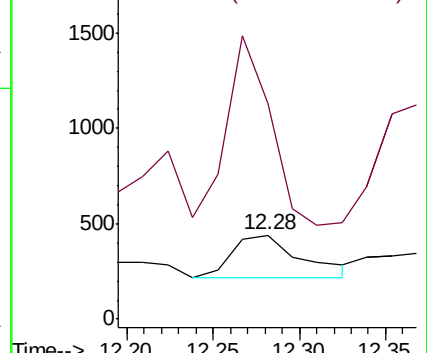
152 100

151 281.7 16.2 24.4#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 1.993 ng

RT: 12.35 min Scan# 773

Delta R.T. -0.01 min

Lab File: BE097999.D

Acq: 19 Oct 2018 19:42

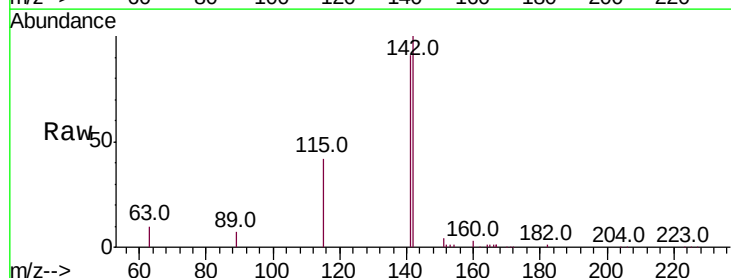
Tgt Ion:142 Resp: 38163

Ion Ratio Lower Upper

142 100

141 90.6 69.8 104.6

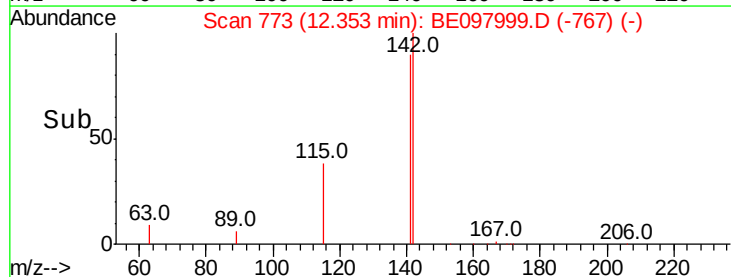
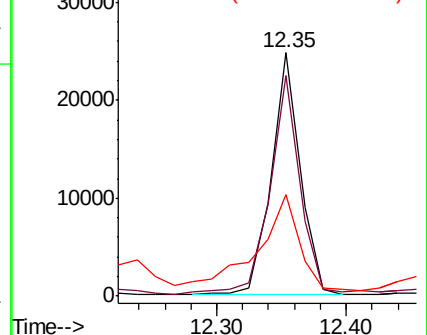
115 41.9 30.5 45.7

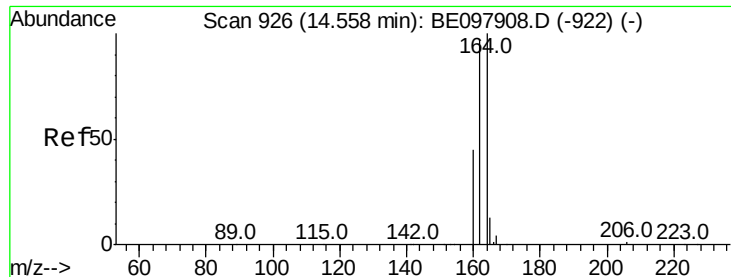


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

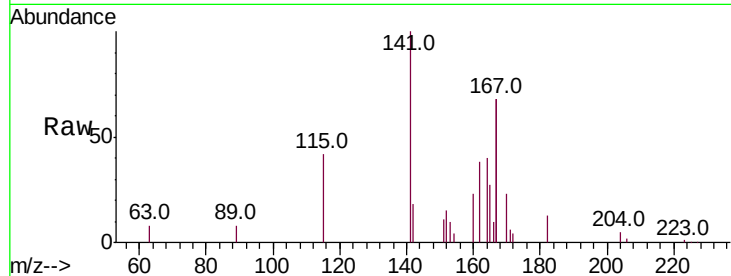




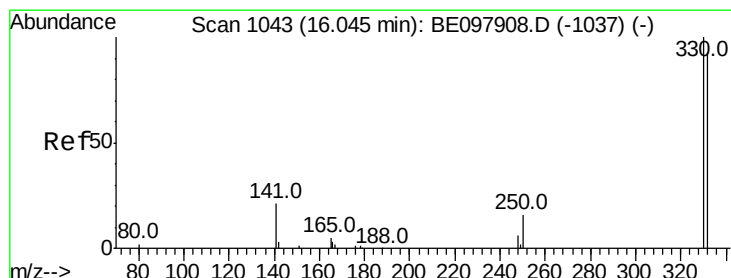
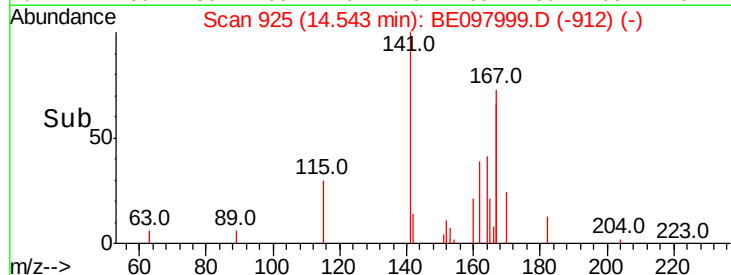
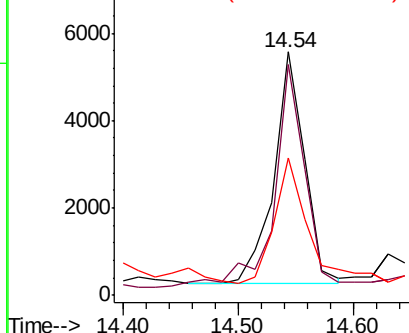
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.54 min Scan# 925
Delta R.T. -0.01 min
Lab File: BE097999.D
Acq: 19 Oct 2018 19:42

Instrument :
BNA_E
ClientSampleId :

Tot Ion:164 Resp: 9828
Ion Ratio Lower Upper
164 100
162 94.6 77.4 116.2
160 56.7 36.5 54.7#

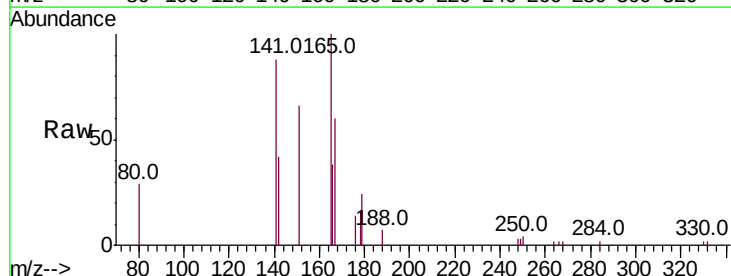


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

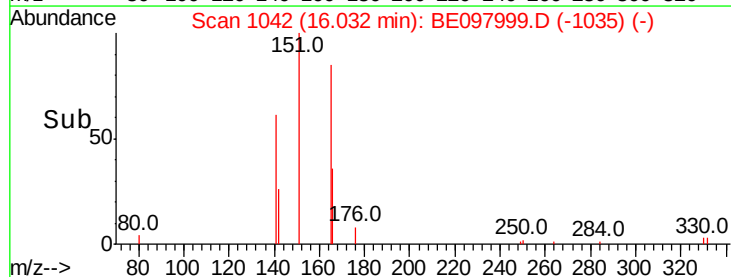
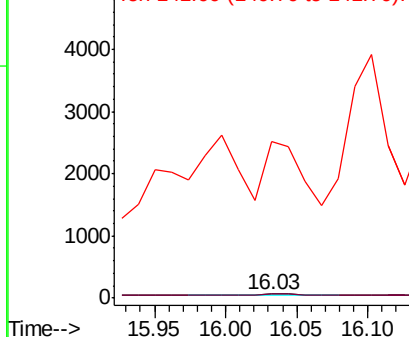


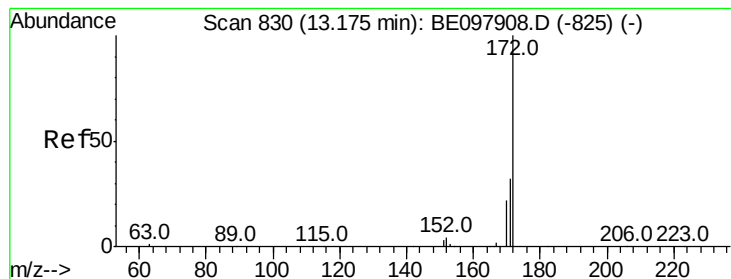
#14
2,4,6-Tribromophenol
Concen: 0.008 ng
RT: 16.03 min Scan# 1042
Delta R.T. -0.01 min
Lab File: BE097999.D
Acq: 19 Oct 2018 19:42

Tgt Ion:330 Resp: 43
Ion Ratio Lower Upper
330 100
332 111.6 76.5 114.7
141 3893.0 31.8 47.6#



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

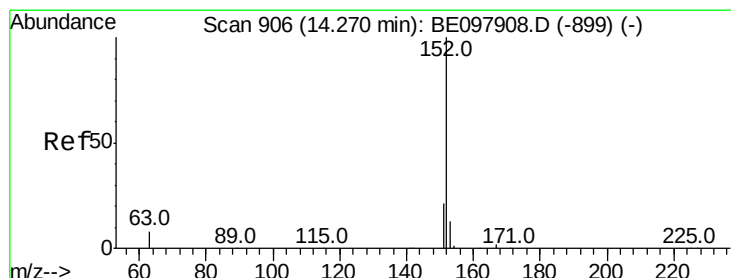
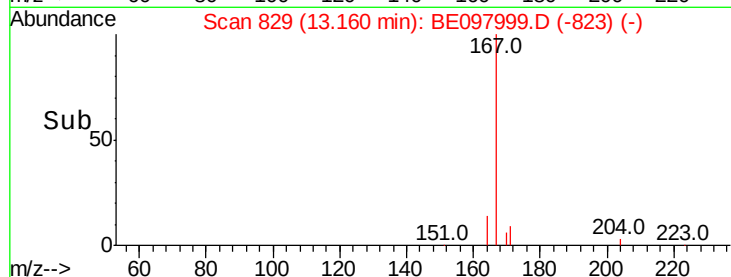
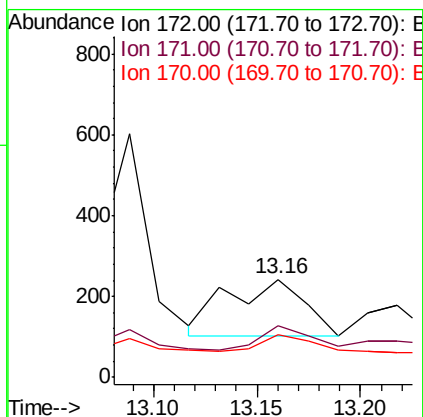
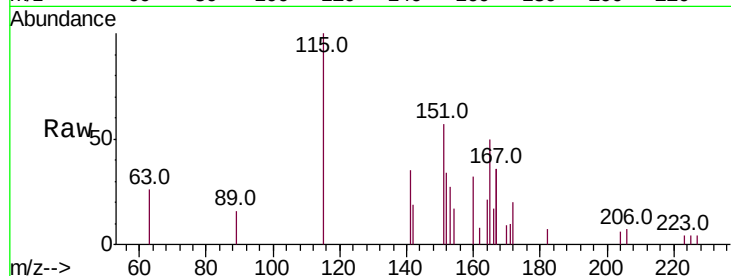




#15
2-Fluorobiphenyl
Concen: 0.009 ng
RT: 13.16 min Scan# 829
Delta R.T. -0.01 min
Lab File: BE097999.D
Acq: 19 Oct 2018 19:42

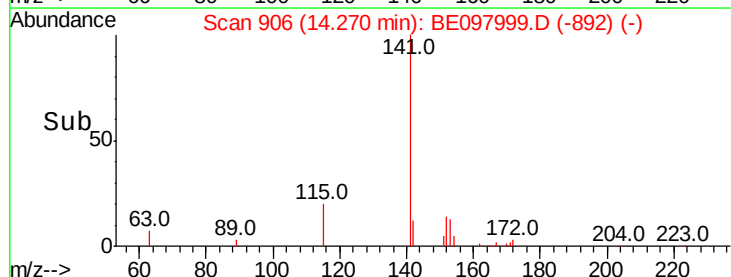
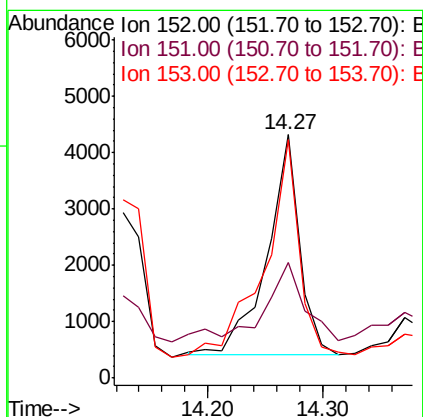
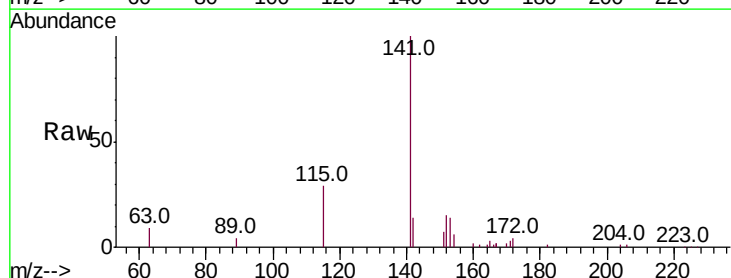
Instrument :
BNA_E
ClientSampleId :

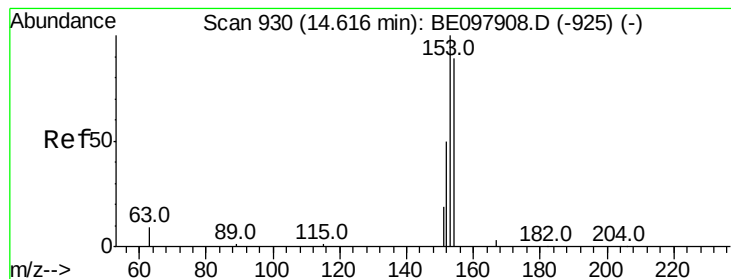
Tot Ion:172 Resp: 358
Ion Ratio Lower Upper
172 100
171 52.5 26.0 39.0#
170 43.0 18.0 27.0#



#16
Acenaphthylene
Concen: 0.167 ng
RT: 14.27 min Scan# 906
Delta R.T. -0.00 min
Lab File: BE097999.D
Acq: 19 Oct 2018 19:42

Tgt Ion:152 Resp: 7605
Ion Ratio Lower Upper
152 100
151 47.0 16.1 24.1#
153 107.7 10.9 16.3#





#17

Acenaphthene

Concen: 0.400 ng

RT: 14.60 min Scan# 929

Delta R.T. -0.01 min

Lab File: BE097999.D

Acq: 19 Oct 2018 19:42

Instrument :

BNA_E

ClientSampled :

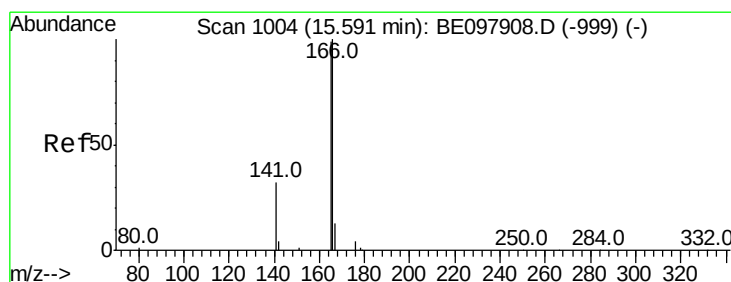
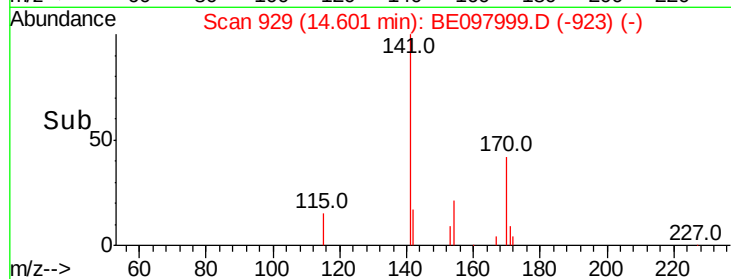
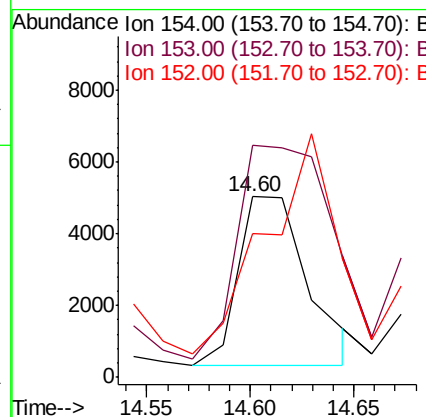
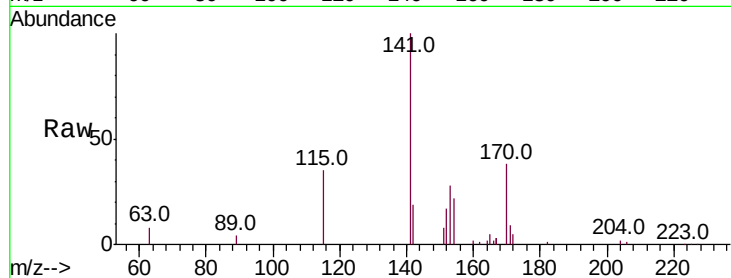
Tot Ion:154 Resp: 11104

Ion Ratio Lower Upper

154 100

153 167.1 92.6 139.0#

152 0.0 45.5 68.3#



#18

Fluorene

Concen: 0.894 ng

RT: 15.59 min Scan# 1004

Delta R.T. -0.00 min

Lab File: BE097999.D

Acq: 19 Oct 2018 19:42

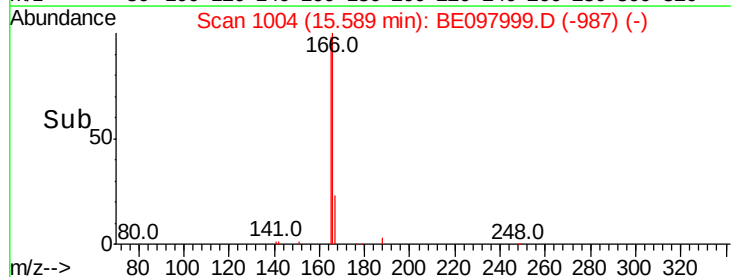
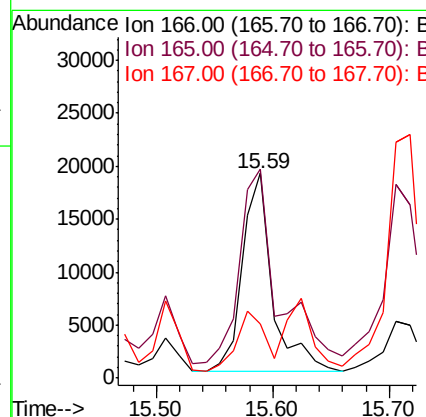
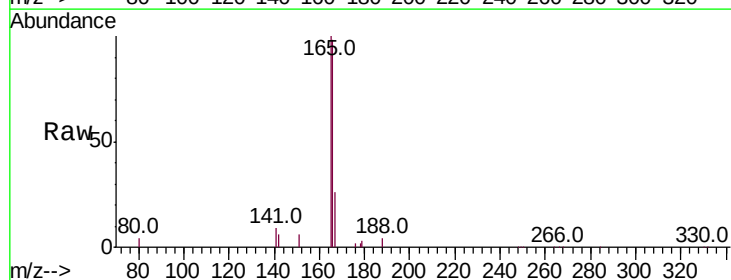
Tgt Ion:166 Resp: 34115

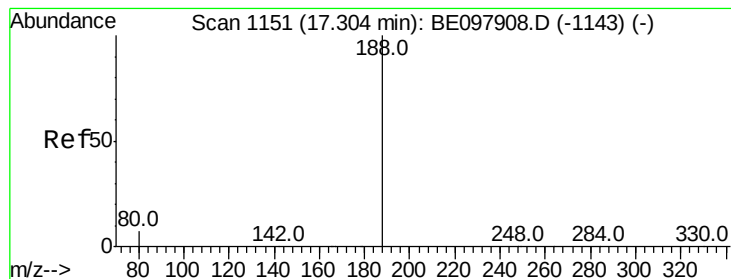
Ion Ratio Lower Upper

166 100

165 123.7 78.2 117.4#

167 29.0 11.0 16.6#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.29 min Scan# 1150

Delta R.T. -0.01 min

Lab File: BE097999.D

Acq: 19 Oct 2018 19:42

Instrument :

BNA_E

ClientSampleId :

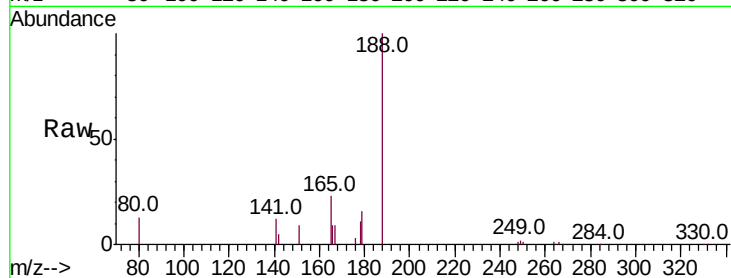
Tot Ion:188 Resp: 19004

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

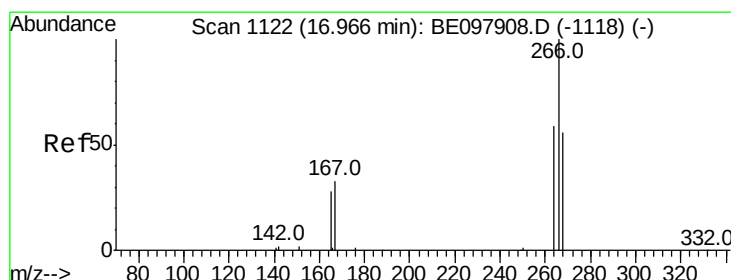
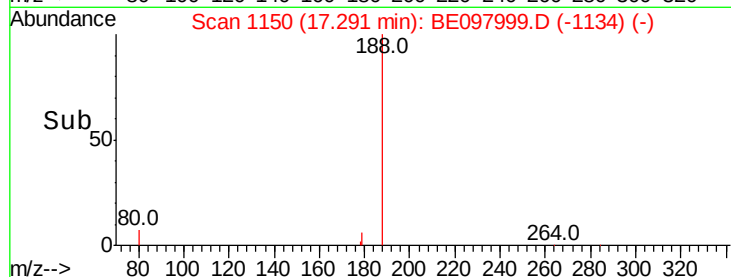
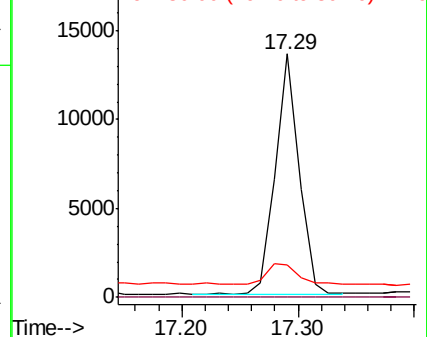
80 13.4 6.3 9.5#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#22

Pentachlorophenol

Concen: 0.097 ng

RT: 17.01 min Scan# 1126

Delta R.T. 0.05 min

Lab File: BE097999.D

Acq: 19 Oct 2018 19:42

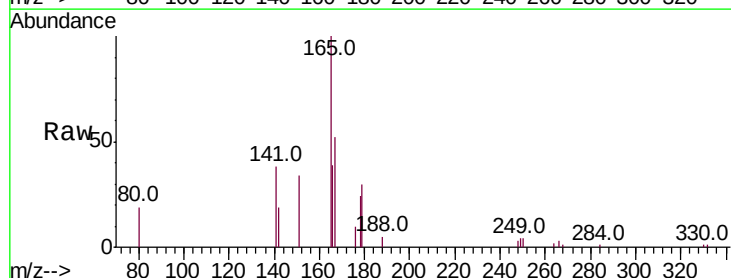
Tgt Ion:266 Resp: 164

Ion Ratio Lower Upper

266 100

264 94.8 51.3 76.9#

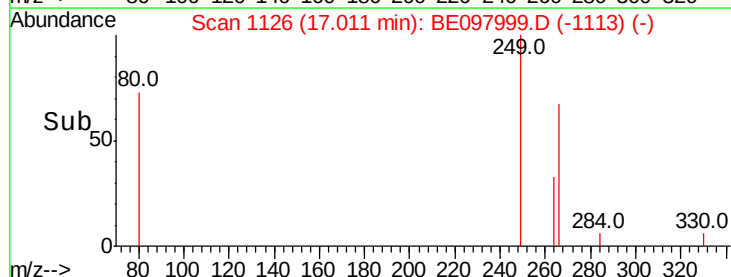
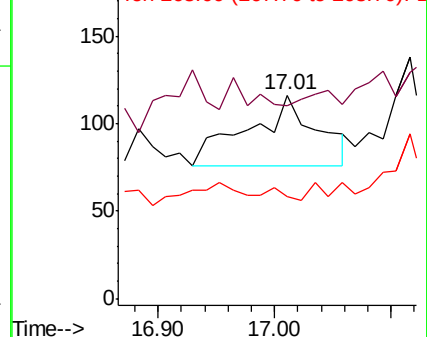
268 50.0 50.1 75.1#

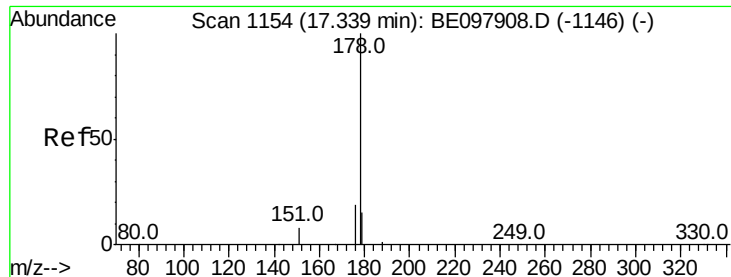


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 2.005 ng

RT: 17.34 min Scan# 1154

Delta R.T. -0.00 min

Lab File: BE097999.D

Acq: 19 Oct 2018 19:42

Instrument :

BNA_E

ClientSampleId :

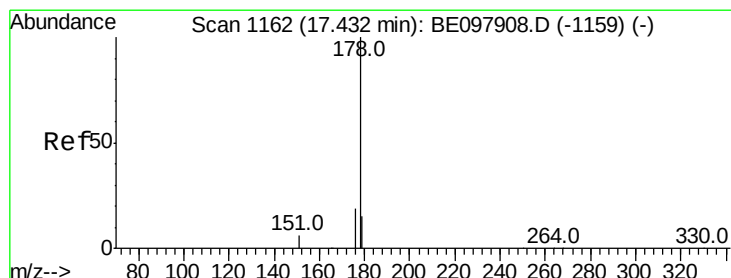
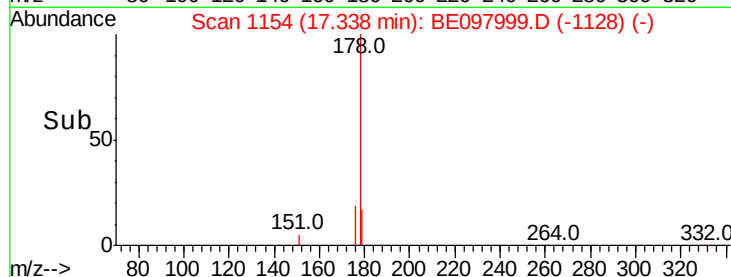
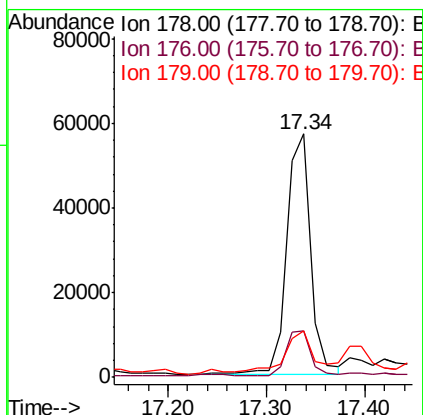
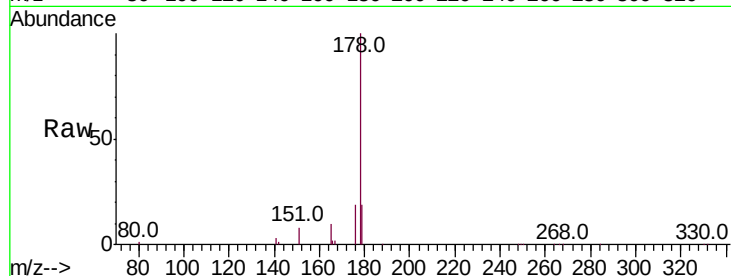
Tot Ion:178 Resp: 96814

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.5	23.3
179	18.6	12.2	18.4

178 100

176 18.5 15.5 23.3

179 18.6 12.2 18.4#



#24

Anthracene

Concen: 0.067 ng

RT: 17.38 min Scan# 1158

Delta R.T. -0.05 min

Lab File: BE097999.D

Acq: 19 Oct 2018 19:42

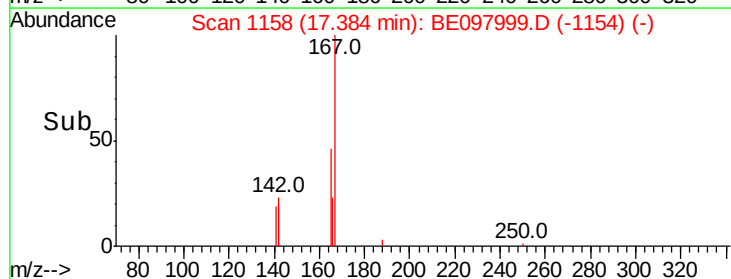
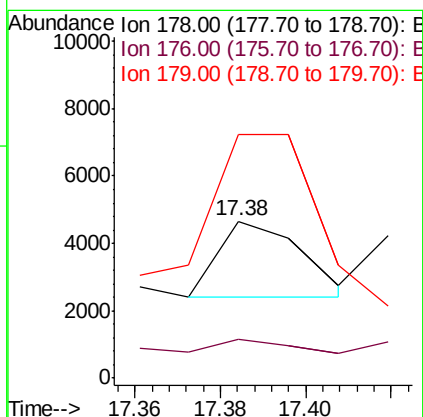
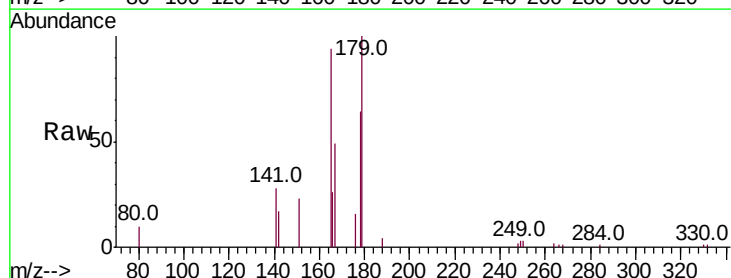
Tgt Ion:178 Resp: 3040

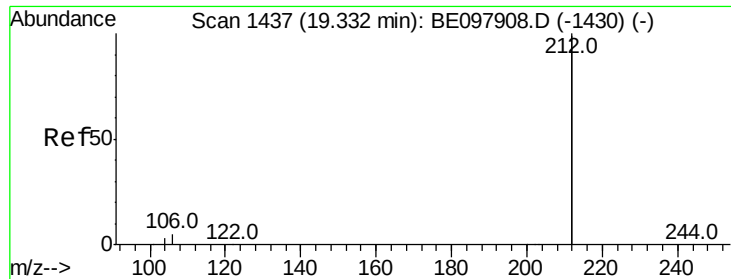
Ion	Ratio	Lower	Upper
178	100		
176	14.9	14.9	22.3#
179	327.0	11.9	17.9#

178 100

176 14.9 14.9 22.3#

179 327.0 11.9 17.9#





#25

Fluoranthene-d10

Concen: 0.010 ng

RT: 19.32 min Scan# 1435

Delta R.T. -0.01 min

Lab File: BE097999.D

Acq: 19 Oct 2018 19:42

Instrument :

BNA_E

ClientSampleId :

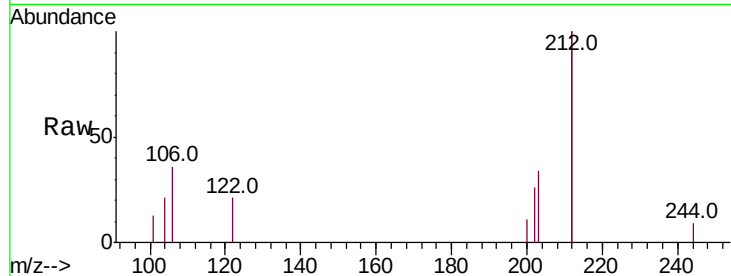
Tot Ion:212 Resp: 2475

Ion Ratio Lower Upper

212 100

106 8.8 2.3 3.5#

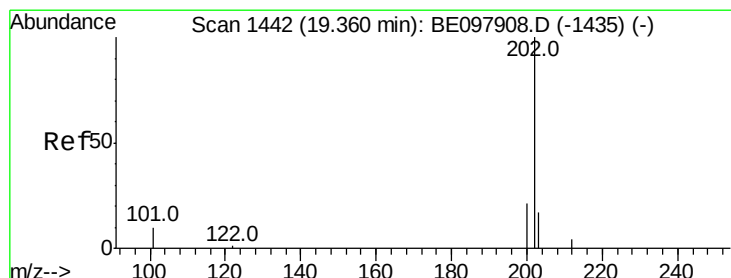
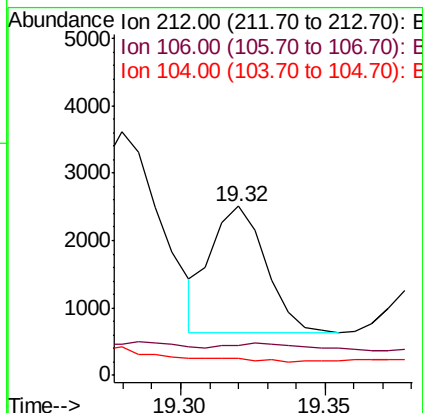
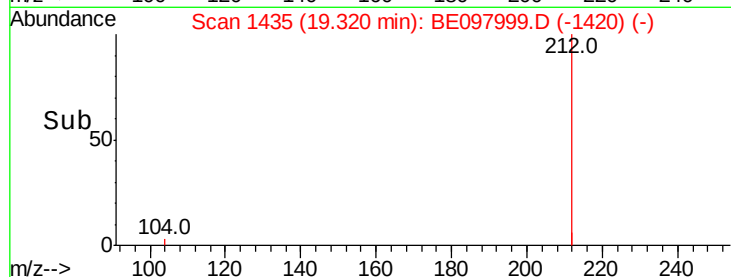
104 0.0 1.3 1.9#



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: 0.116 ng

RT: 19.35 min Scan# 1440

Delta R.T. -0.01 min

Lab File: BE097999.D

Acq: 19 Oct 2018 19:42

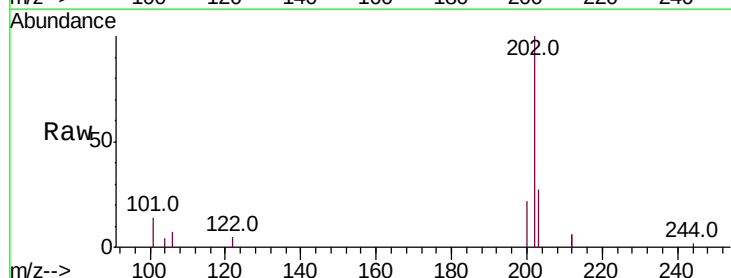
Tgt Ion:202 Resp: 7337

Ion Ratio Lower Upper

202 100

101 12.5 8.2 12.2#

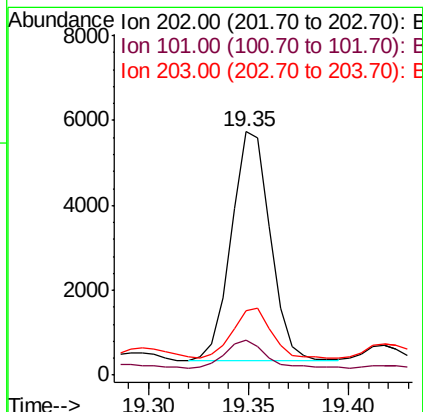
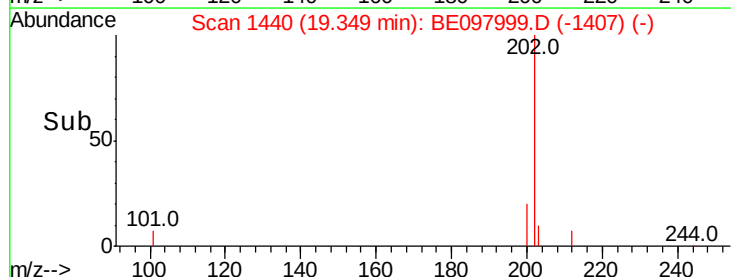
203 21.1 15.0 22.4

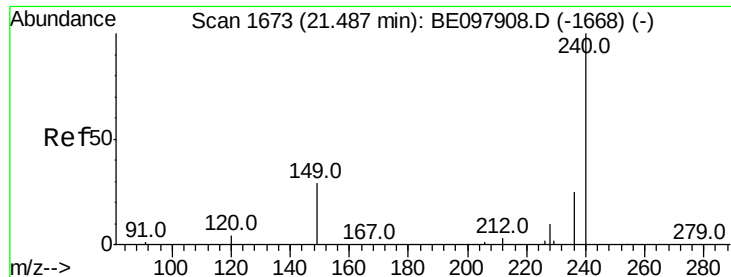


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.48 min Scan# 1672

Delta R.T. -0.01 min

Lab File: BE097999.D

Acq: 19 Oct 2018 19:42

Instrument :

BNA_E

ClientSampleId :

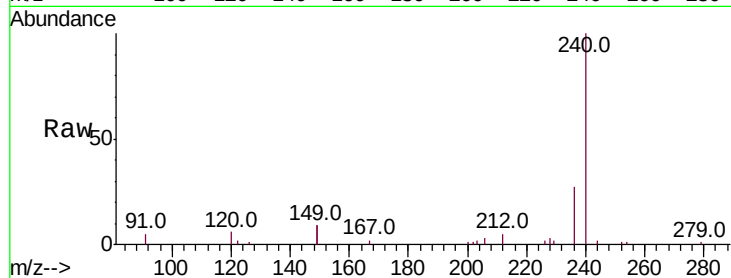
Tot Ion:240 Resp: 21760

Ion Ratio Lower Upper

240 100

120 6.5 7.1 10.7#

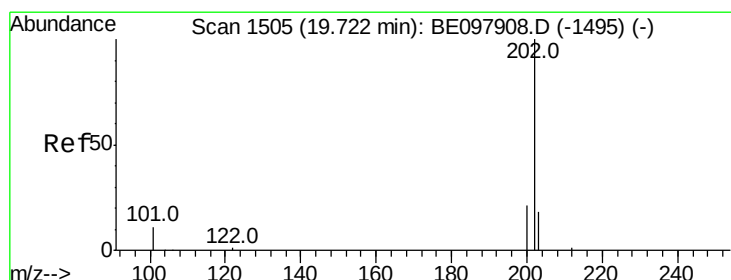
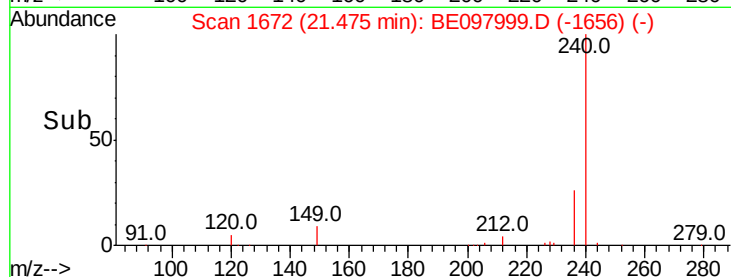
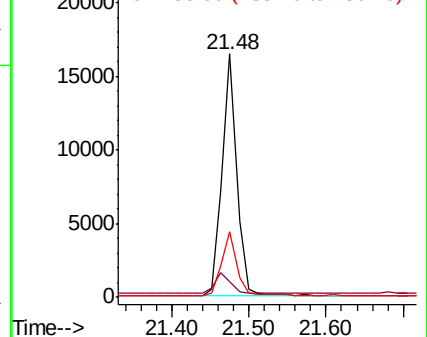
236 27.1 21.3 31.9



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: 0.178 ng

RT: 19.71 min Scan# 1503

Delta R.T. -0.01 min

Lab File: BE097999.D

Acq: 19 Oct 2018 19:42

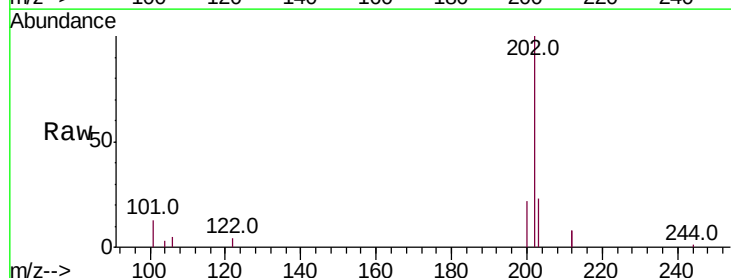
Tgt Ion:202 Resp: 11147

Ion Ratio Lower Upper

202 100

200 20.0 17.0 25.4

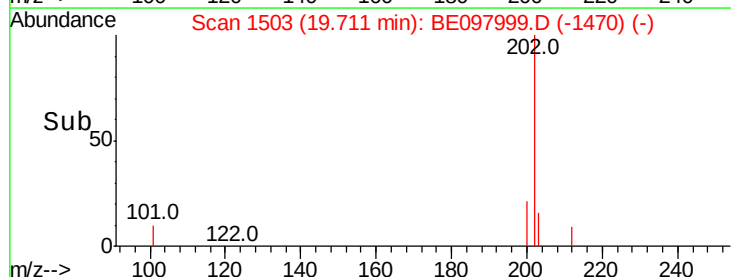
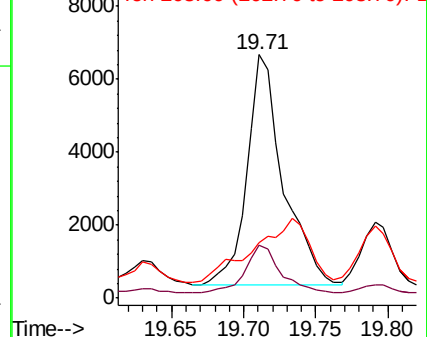
203 0.0 14.2 21.4#

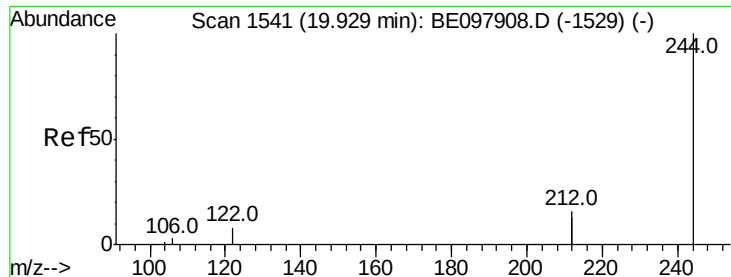


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.015 ng

RT: 19.92 min Scan# 1539

Delta R.T. -0.01 min

Lab File: BE097999.D

Acq: 19 Oct 2018 19:42

Instrument :

BNA_E

ClientSampleId :

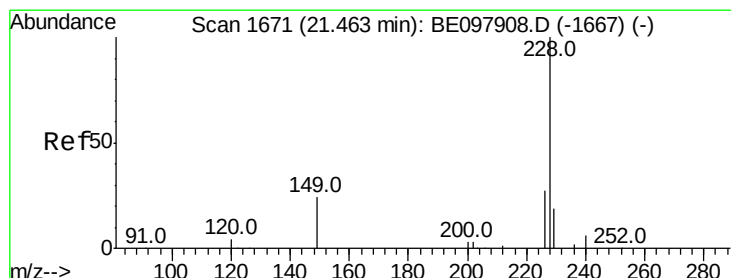
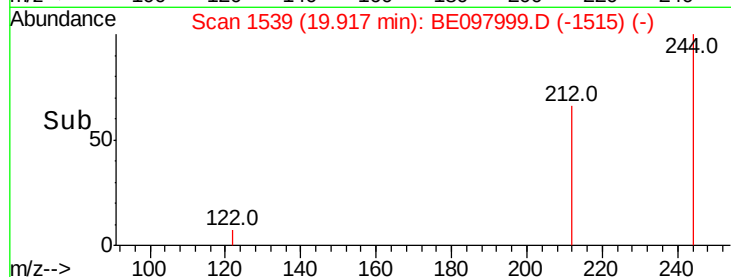
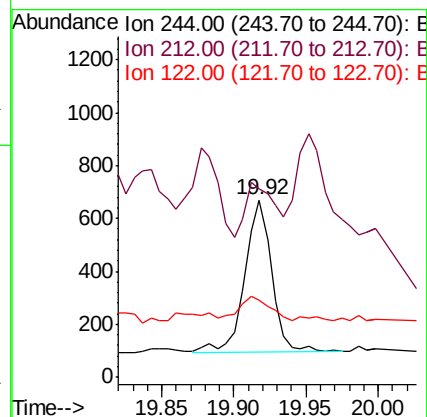
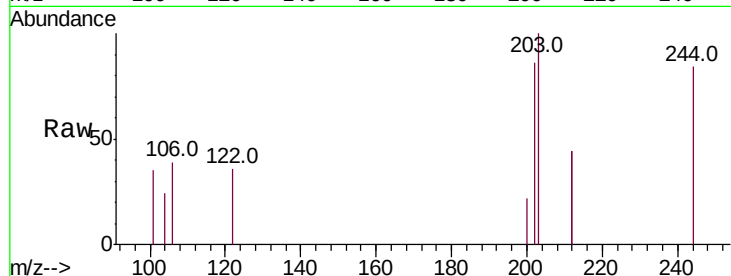
Tot Ion:244 Resp: 762

Ion Ratio Lower Upper

244 100

212 106.1 26.2 39.2#

122 43.2 7.7 11.5#



#30

Benzo(a)anthracene

Concen: 0.051 ng

RT: 21.45 min Scan# 1670

Delta R.T. -0.01 min

Lab File: BE097999.D

Acq: 19 Oct 2018 19:42

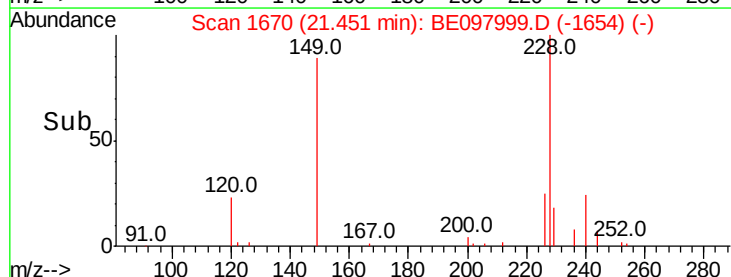
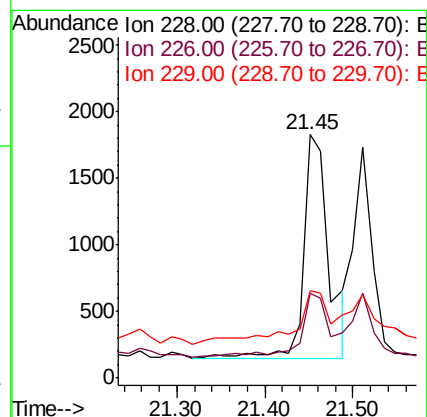
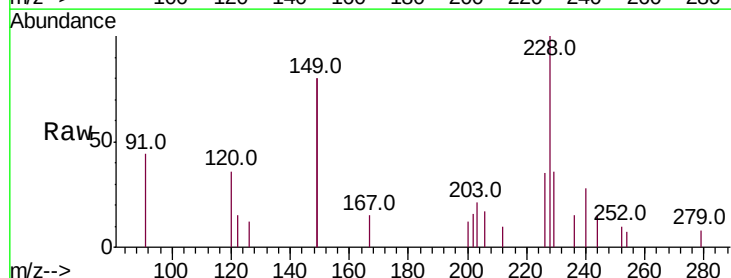
Tgt Ion:228 Resp: 3427

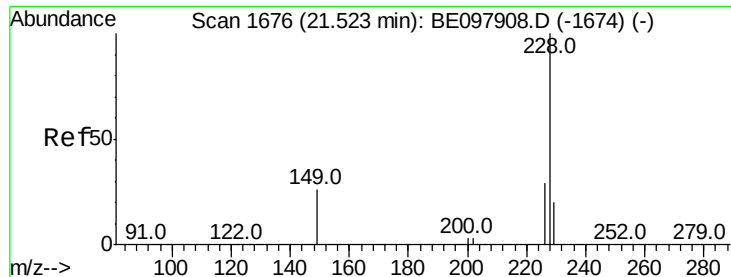
Ion Ratio Lower Upper

228 100

226 34.9 22.6 33.8#

229 35.8 16.9 25.3#





#31

Chrysene

Concen: 0.036 ng

RT: 21.51 min Scan# 1675

Delta R.T. -0.01 min

Lab File: BE097999.D

Acq: 19 Oct 2018 19:42

Instrument :

BNA_E

ClientSampled :

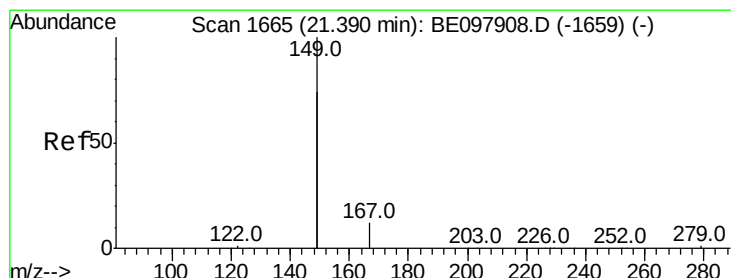
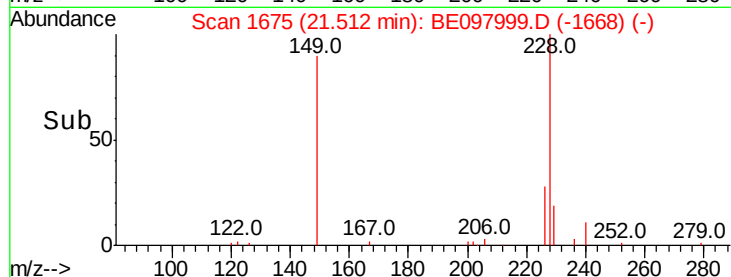
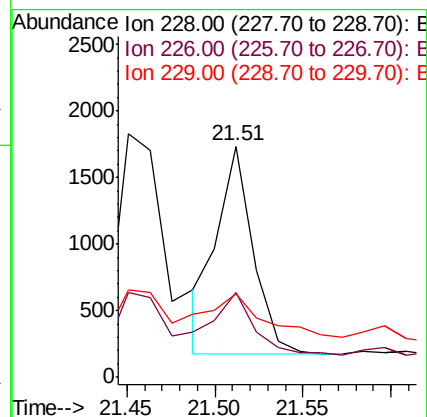
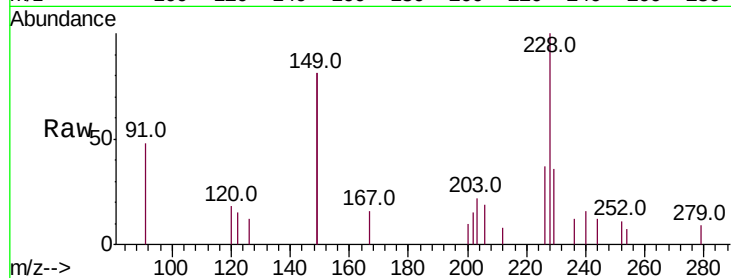
Tot Ion:228 Resp: 2249

Ion Ratio Lower Upper

228 100

226 36.9 24.3 36.5#

229 36.4 17.3 25.9#



#32

Bis(2-ethylhexyl)phthalate

Concen: Below Cal

RT: 21.38 min Scan# 1664

Delta R.T. -0.01 min

Lab File: BE097999.D

Acq: 19 Oct 2018 19:42

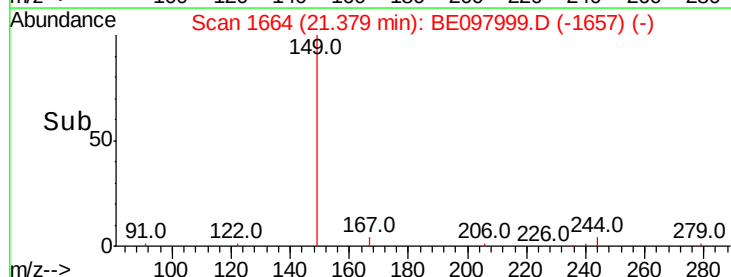
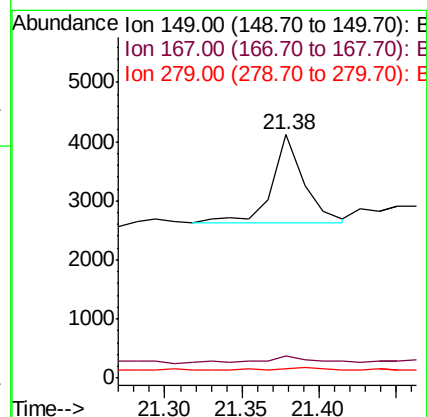
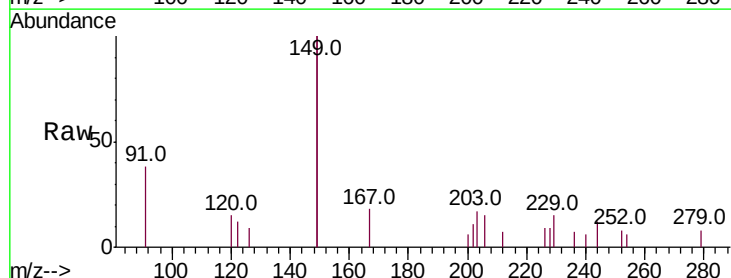
Tgt Ion:149 Resp: 2231

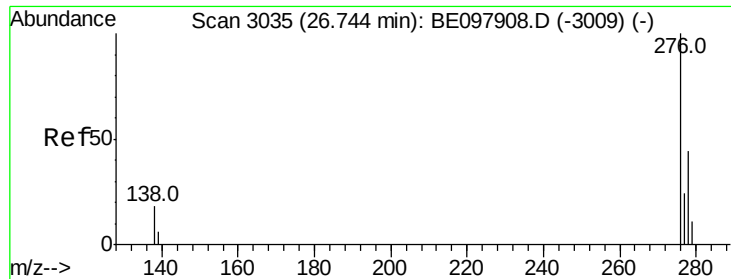
Ion Ratio Lower Upper

149 100

167 10.0 5.6 8.4#

279 2.7 0.9 1.3#





#33

Indeno(1,2,3-cd)pyrene

Concen: Below Cal

RT: 26.71 min Scan# 3026

Delta R.T. -0.03 min

Lab File: BE097999.D

Acq: 19 Oct 2018 19:42

Instrument :

BNA_E

ClientSampleId :

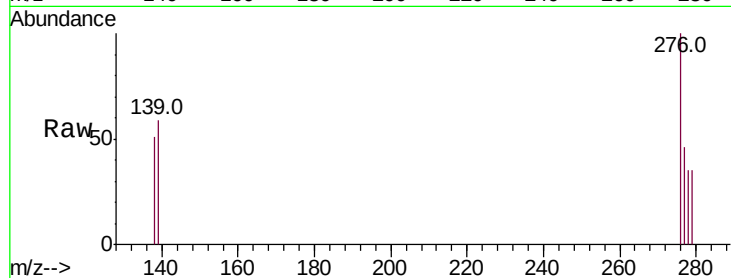
Tot Ion:276 Resp: 1288

Ion Ratio Lower Upper

276 100

138 12.5 17.0 25.6#

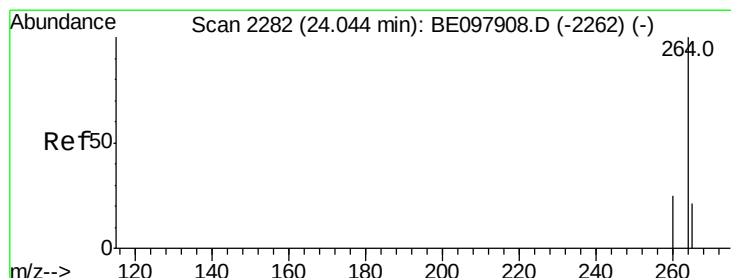
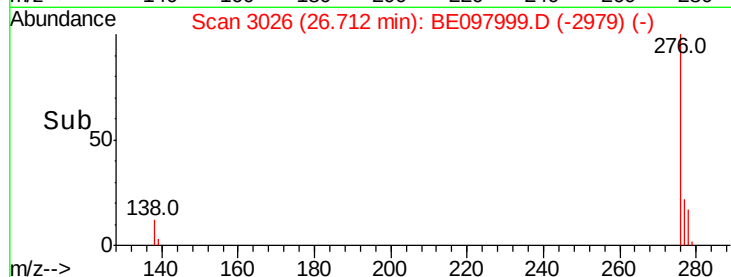
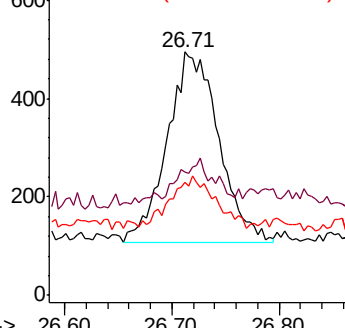
277 22.5 20.5 30.7



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: 24.03 min Scan# 2278

Delta R.T. -0.01 min

Lab File: BE097999.D

Acq: 19 Oct 2018 19:42

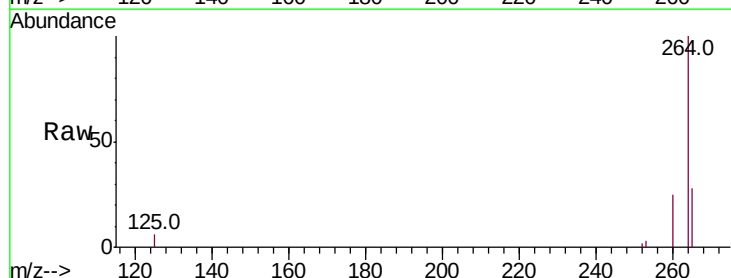
Tgt Ion:264 Resp: 21521

Ion Ratio Lower Upper

264 100

260 25.4 21.1 31.7

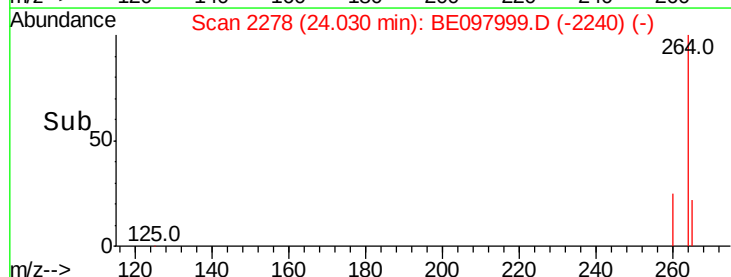
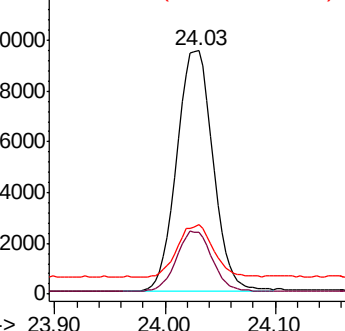
265 28.4 29.2 43.8#

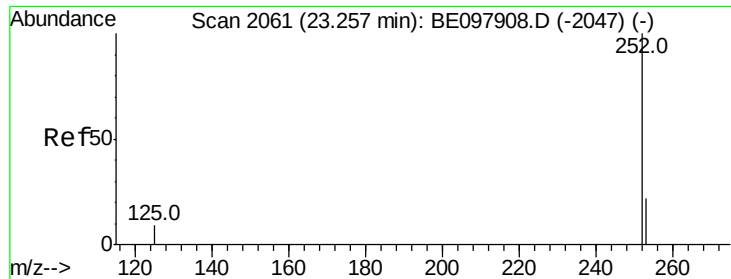


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.047 ng

RT: 23.24 min Scan# 2057

Delta R.T. -0.01 min

Lab File: BE097999.D

Acq: 19 Oct 2018 19:42

Instrument :

BNA_E

ClientSampleId :

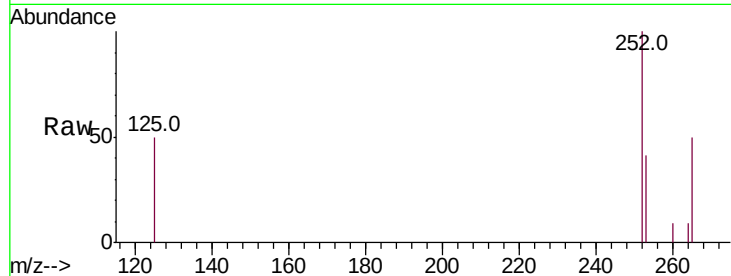
Tot Ion:252 Resp: 2928

Ion Ratio Lower Upper

252 100

253 40.5 20.6 31.0#

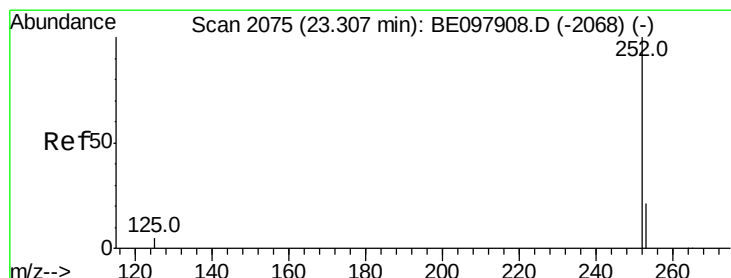
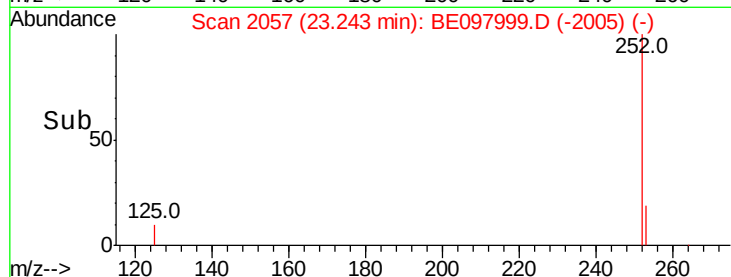
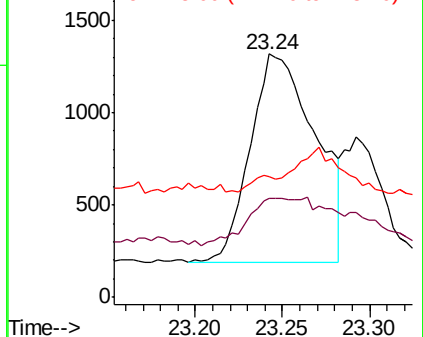
125 49.5 14.3 21.5#



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



#36

Benzo(k)fluoranthene

Concen: 0.045 ng

RT: 23.24 min Scan# 2057

Delta R.T. -0.06 min

Lab File: BE097999.D

Acq: 19 Oct 2018 19:42

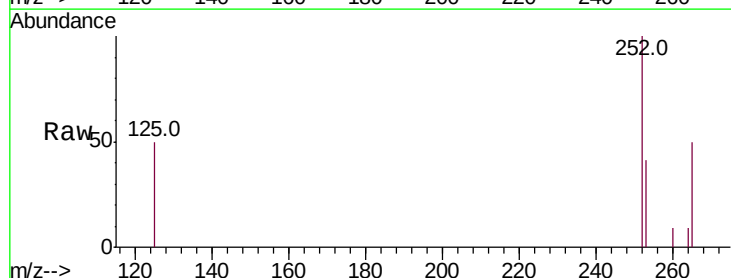
Tgt Ion:252 Resp: 2928

Ion Ratio Lower Upper

252 100

253 40.5 20.4 30.6#

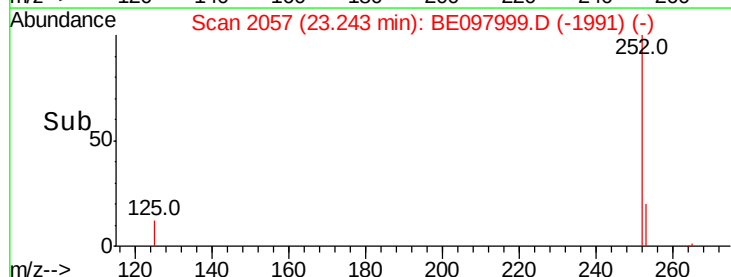
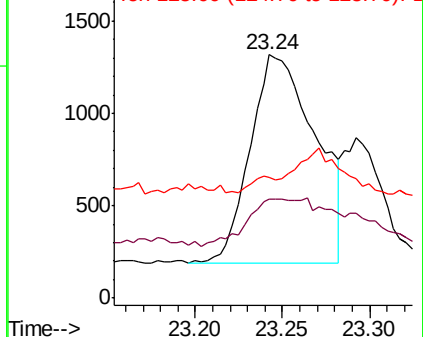
125 49.5 14.6 21.8#

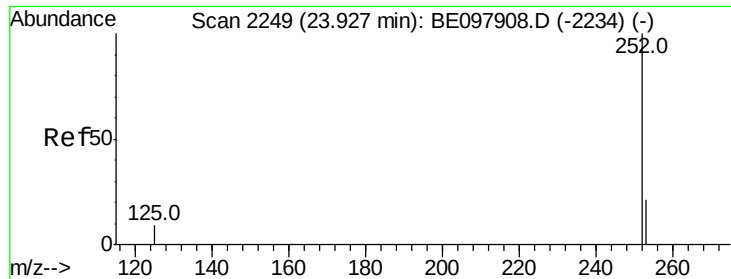


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.035 ng

RT: 23.92 min Scan# 2246

Delta R.T. -0.01 min

Lab File: BE097999.D

Acq: 19 Oct 2018 19:42

Instrument :

BNA_E

ClientSampleId :

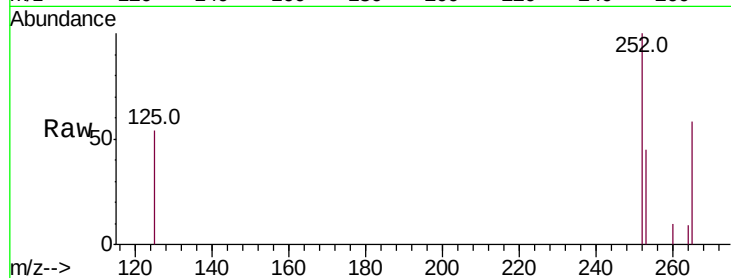
Tot Ion: 252 Resp: 2112

Ion Ratio Lower Upper

252 100

253 44.9 20.6 31.0#

125 54.0 15.6 23.4#



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

