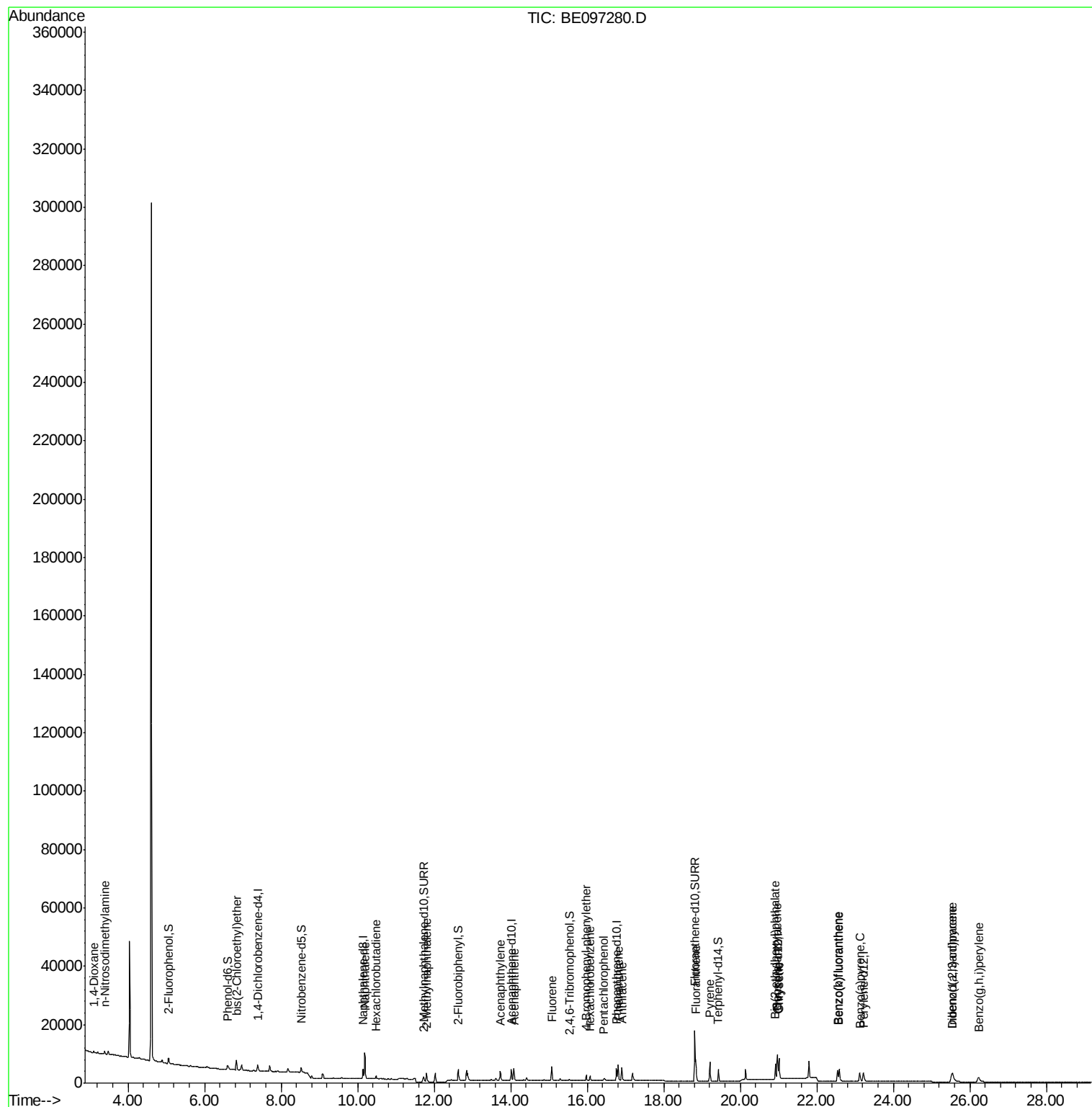
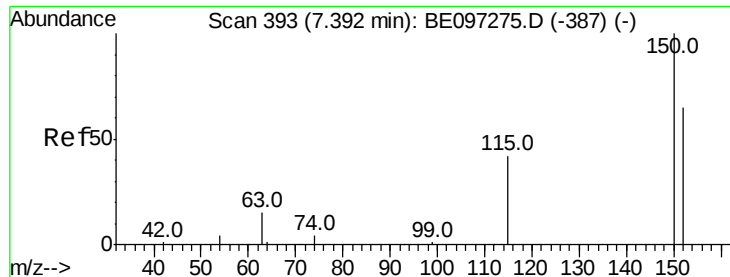


Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE081518\
Data File : BE097280.D
Acq On : 15 Aug 2018 15:52
Operator : SJ/JU
Sample : PB112028BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB112028BS

Quant Time: Aug 15 17:31:03 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE081518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 15 14:23:39 2018
Response via : Initial Calibration



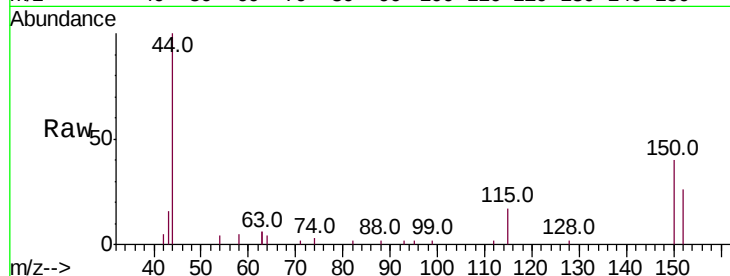


#1

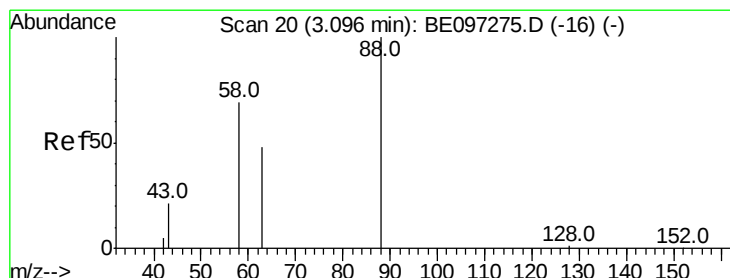
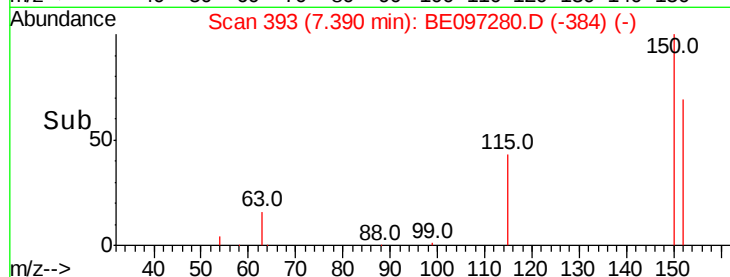
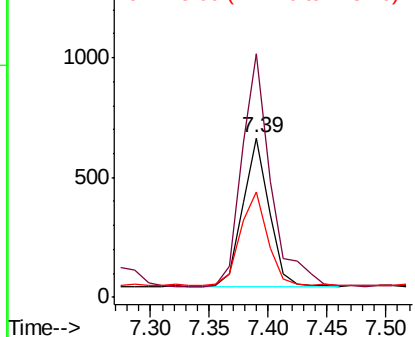
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.39 min Scan# 393
Delta R.T. -0.00 min
Lab File: BE097280.D
Acq: 15 Aug 2018 15:52

Instrument :
BNA_E
ClientSampleId :
PB112028BS

Tot Ion:152 Resp: 957
Ion Ratio Lower Upper
152 100
150 153.0 117.2 175.8
115 66.6 57.0 85.6



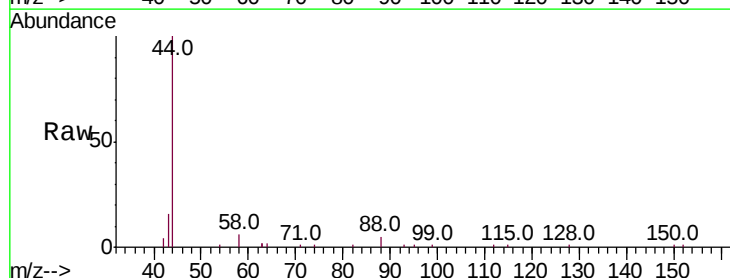
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



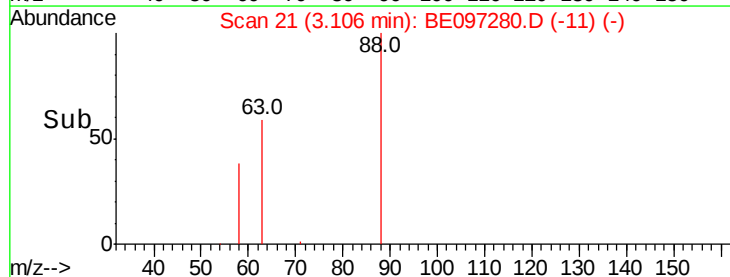
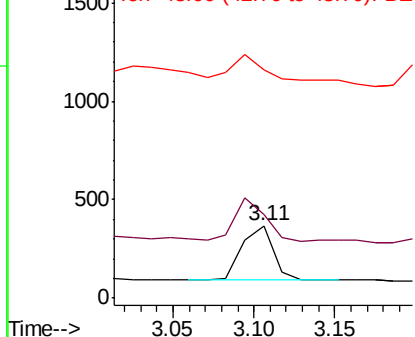
#2

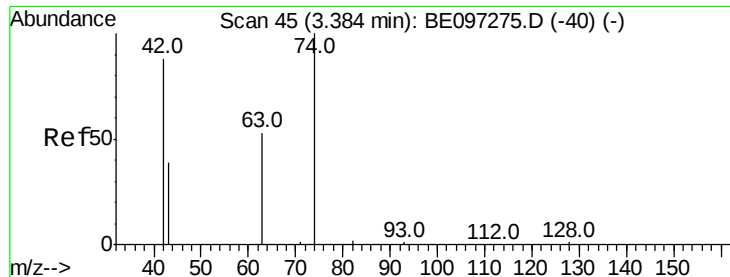
1,4-Dioxane
Concen: 0.342 ng
RT: 3.11 min Scan# 21
Delta R.T. 0.01 min
Lab File: BE097280.D
Acq: 15 Aug 2018 15:52

Tgt Ion: 88 Resp: 368
Ion Ratio Lower Upper
88 100
58 74.5 63.2 94.8
43 46.2 41.2 61.8



Abundance Ion 88.00 (87.70 to 88.70): BE0
Ion 58.00 (57.70 to 58.70): BE0
Ion 43.00 (42.70 to 43.70): BE0



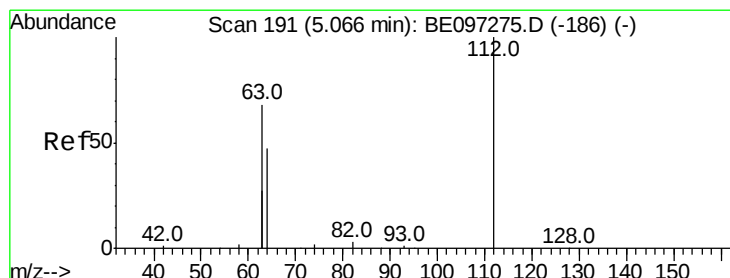
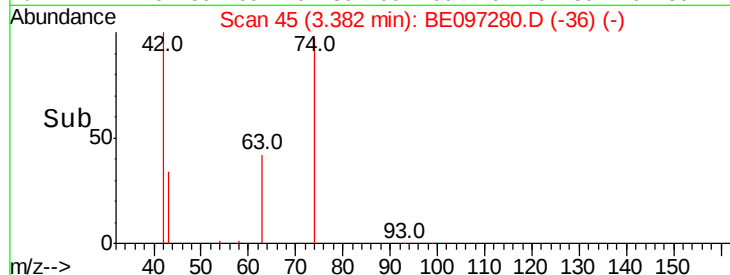
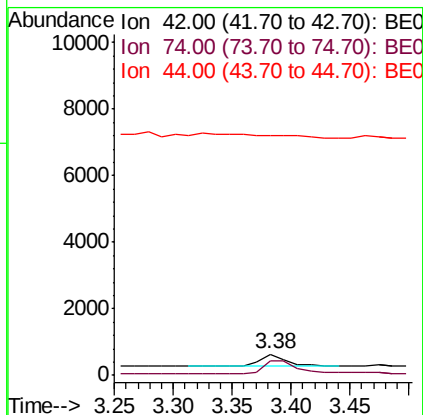
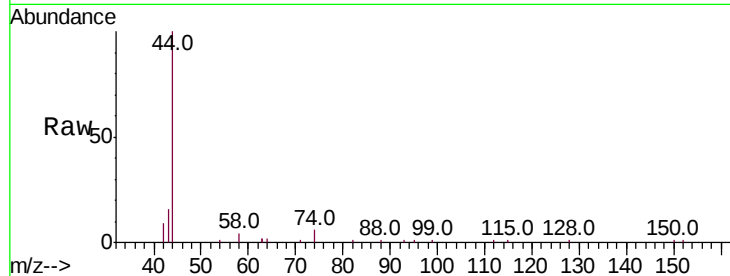


#3

n-Nitrosodimethylamine
 Concen: 0.482 ng
 RT: 3.38 min Scan# 45
 Delta R.T. -0.00 min
 Lab File: BE097280.D
 Acq: 15 Aug 2018 15:52

Instrument :
 BNA_E
 ClientSampleId :
 PB112028BS

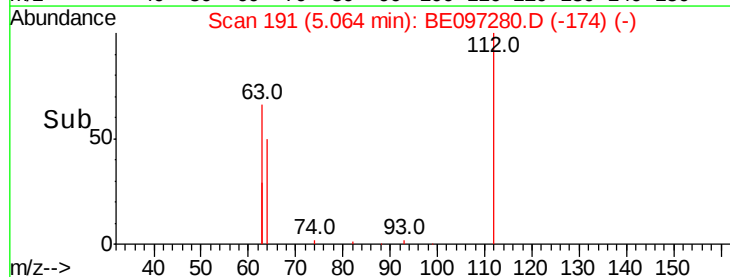
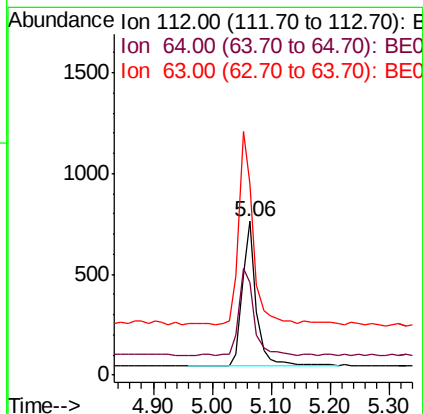
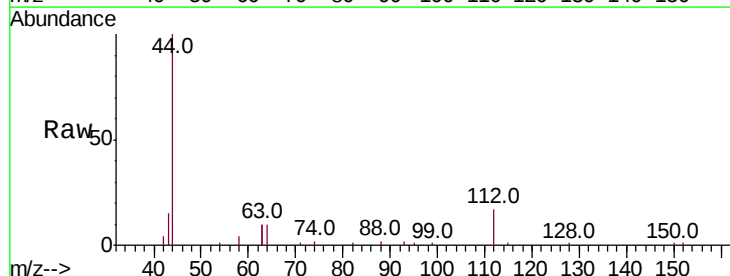
Tot Ion: 42 Resp: 601
 Ion Ratio Lower Upper
 42 100
 74 115.3 96.0 144.0
 44 0.0 12.0 18.0#

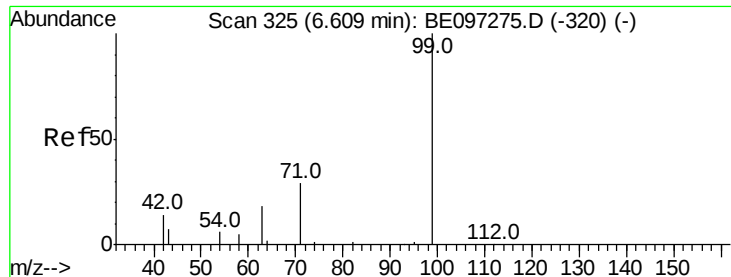


#4

2-Fluorophenol
 Concen: 0.372 ng
 RT: 5.06 min Scan# 191
 Delta R.T. -0.00 min
 Lab File: BE097280.D
 Acq: 15 Aug 2018 15:52

Tgt Ion: 112 Resp: 1171
 Ion Ratio Lower Upper
 112 100
 64 64.0 60.1 90.1
 63 134.9 116.8 175.2





#5

Phenol-d6

Concen: 0.314 ng

RT: 6.61 min Scan# 325

Delta R.T. -0.00 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB112028BS

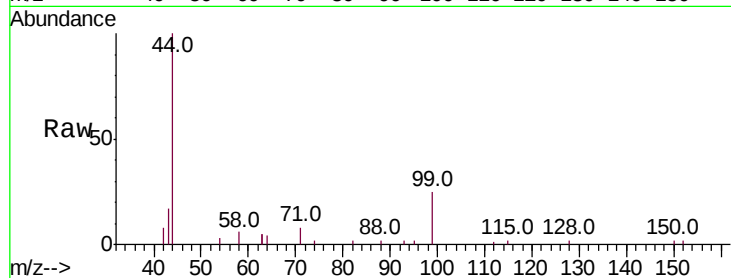
Tot Ion: 99 Resp: 1413

Ion Ratio Lower Upper

99 100

42 23.6 20.2 30.2

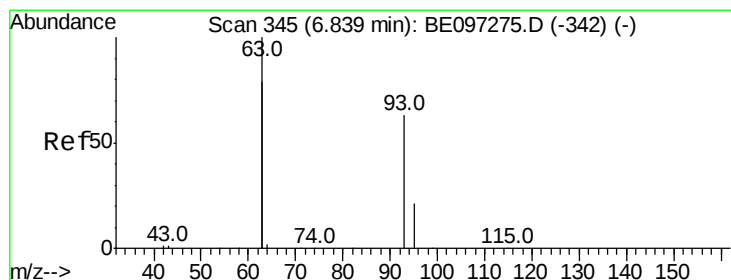
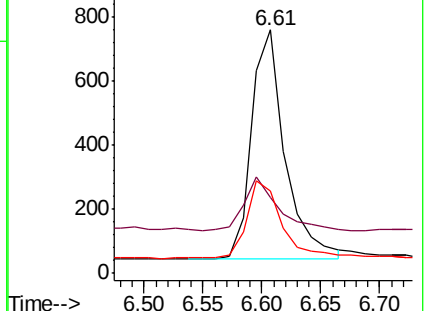
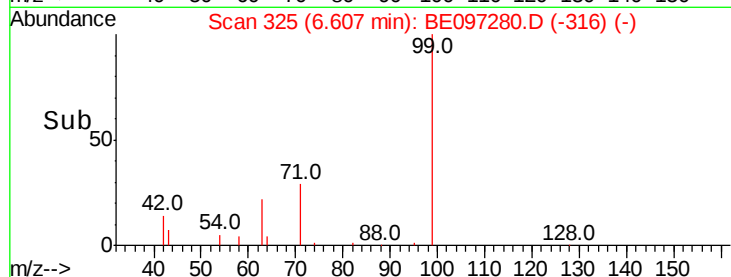
71 35.0 28.4 42.6



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



#6

bis(2-Chloroethyl)ether

Concen: 0.339 ng

RT: 6.84 min Scan# 345

Delta R.T. -0.00 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

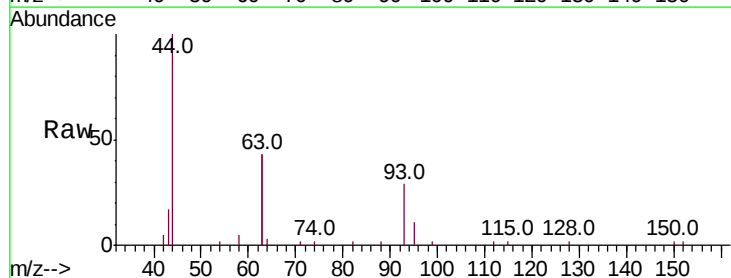
Tgt Ion: 93 Resp: 1215

Ion Ratio Lower Upper

93 100

63 342.6 275.3 412.9

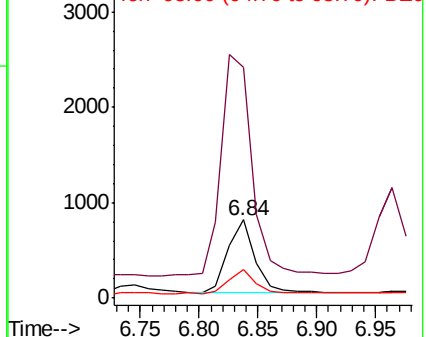
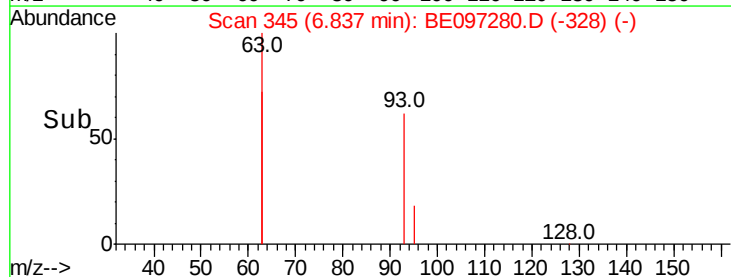
95 32.8 25.2 37.8

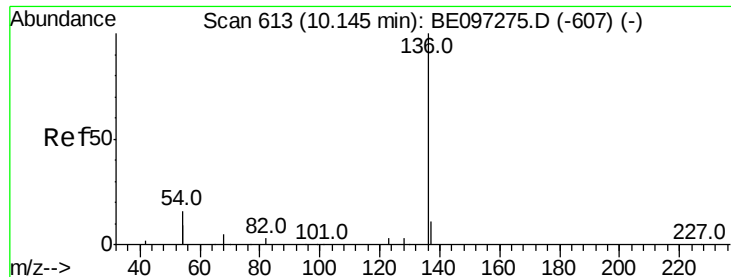


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.15 min Scan# 613

Delta R.T. 0.00 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB112028BS

Tot Ion:136 Resp: 4097

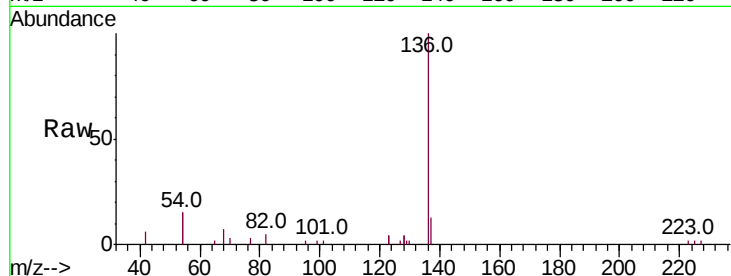
Ion Ratio Lower Upper

136 100

137 12.9 9.5 14.3

54 29.9 29.1 43.7

68 6.8 6.2 9.2

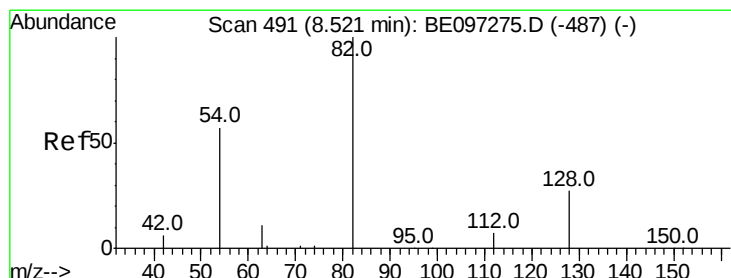
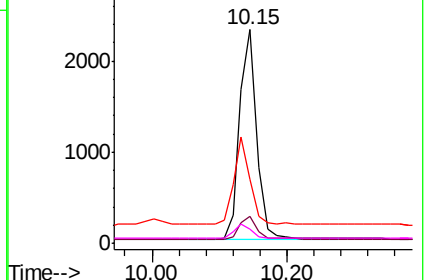
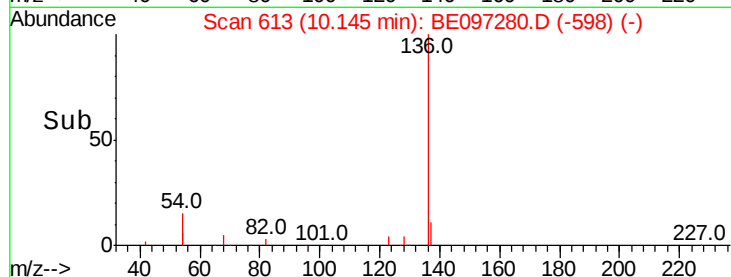


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.407 ng

RT: 8.52 min Scan# 491

Delta R.T. -0.00 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

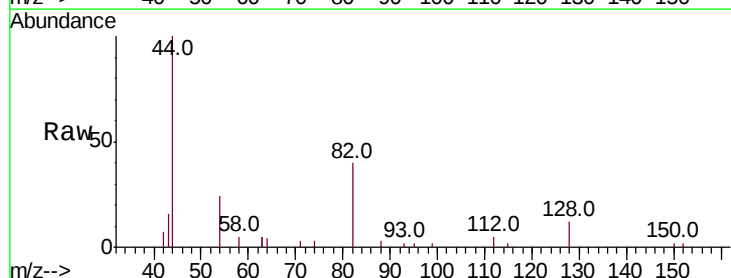
Tgt Ion: 82 Resp: 1525

Ion Ratio Lower Upper

82 100

128 30.1 24.0 36.0

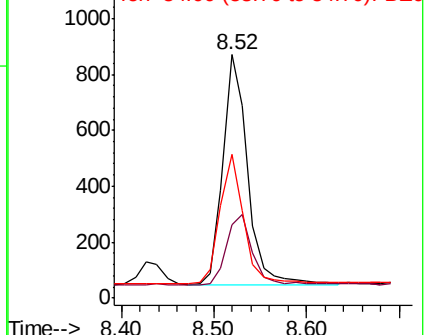
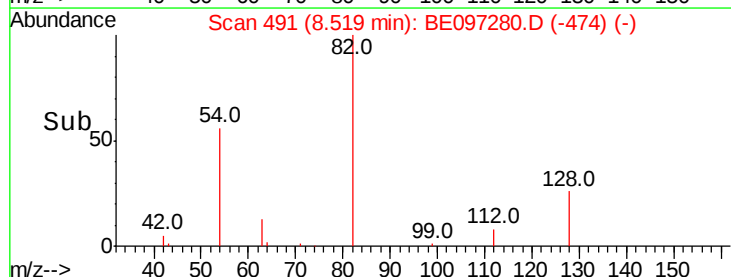
54 59.1 40.0 60.0

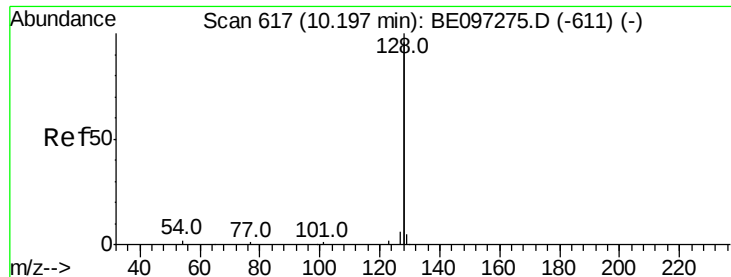


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.397 ng

RT: 10.18 min Scan# 616

Delta R.T. -0.01 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB112028BS

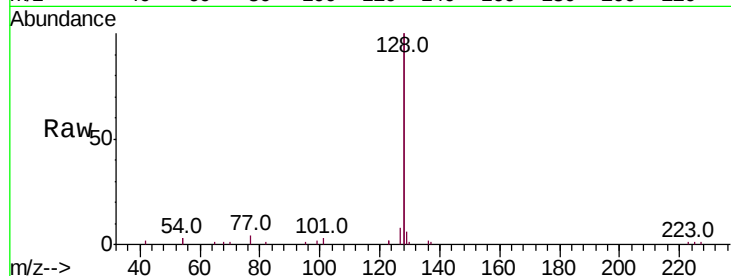
Tot Ion:128 Resp: 15204

Ion Ratio Lower Upper

128 100

129 3.2 2.6 3.8

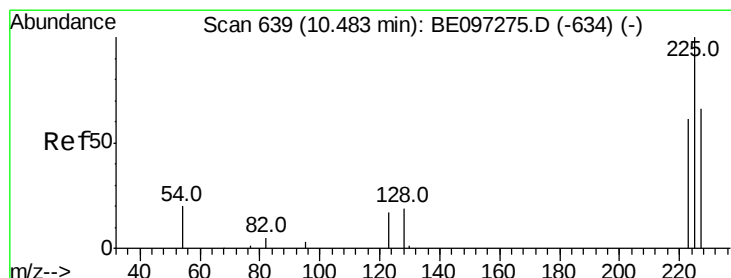
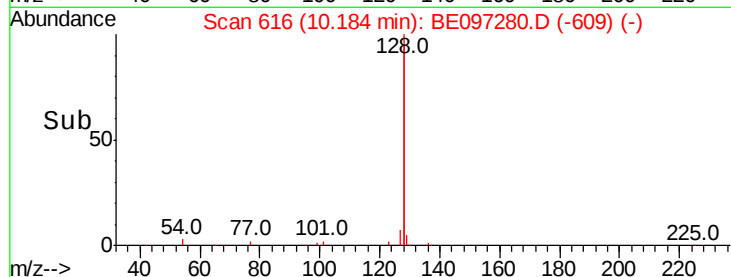
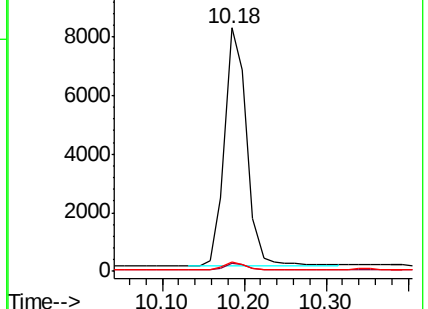
127 3.9 2.8 4.2



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



#10

Hexachlorobutadiene

Concen: 0.398 ng

RT: 10.48 min Scan# 639

Delta R.T. 0.00 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

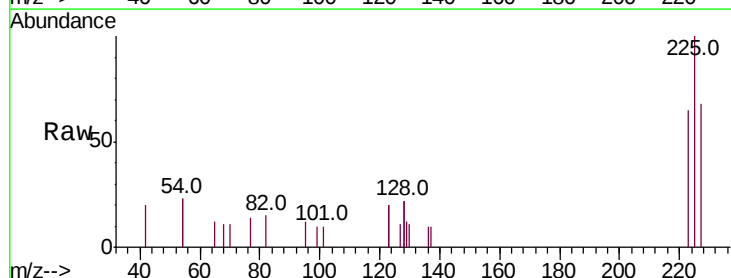
Tgt Ion:225 Resp: 689

Ion Ratio Lower Upper

225 100

223 62.1 53.0 79.6

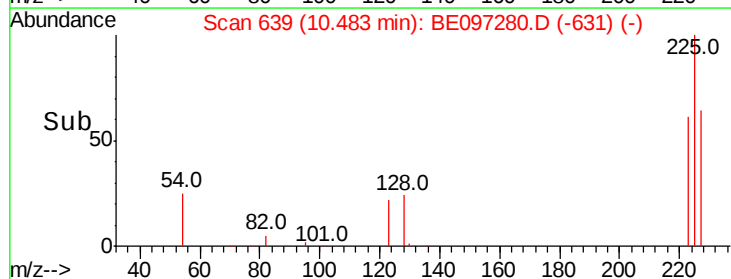
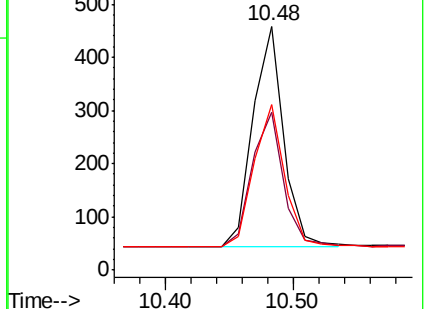
227 65.5 51.4 77.2

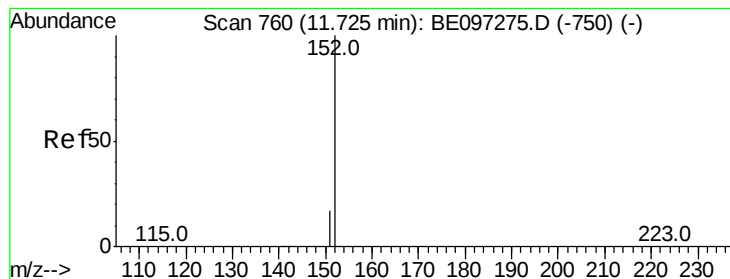


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.694 ng

RT: 11.72 min Scan# 760

Delta R.T. -0.00 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

Instrument :

BNA_E

ClientSampleId :

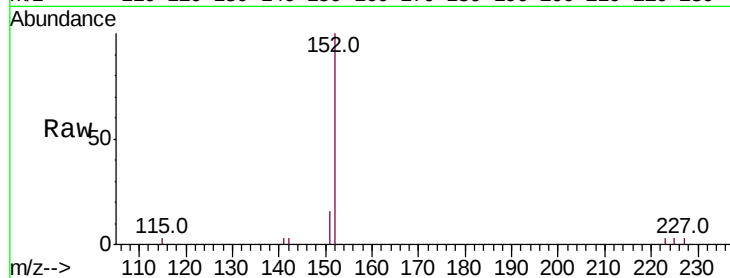
PB112028BS

Tot Ion:152 Resp: 4131

Ion Ratio Lower Upper

152 100

151 11.3 15.4 23.0#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.72

1500

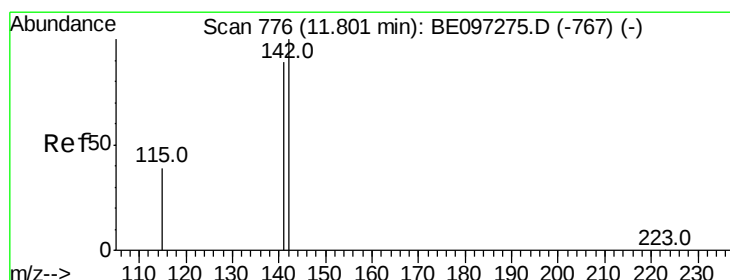
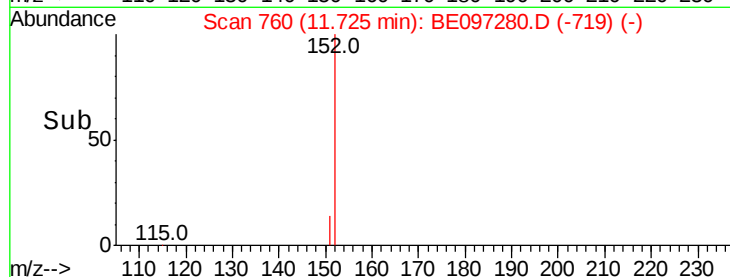
1000

500

0

Time-->

11.60 11.70 11.80



#12

2-Methylnaphthalene

Concen: 0.387 ng

RT: 11.80 min Scan# 776

Delta R.T. -0.00 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

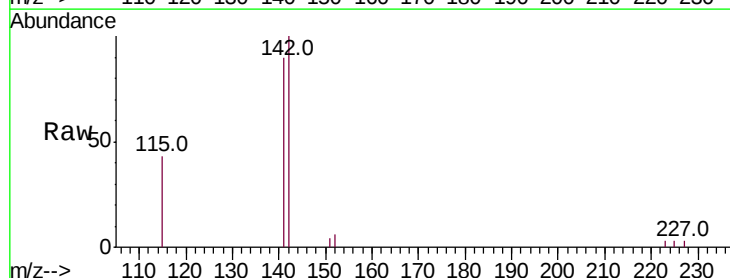
Tgt Ion:142 Resp: 2430

Ion Ratio Lower Upper

142 100

141 90.4 70.4 105.6

115 43.4 31.7 47.5



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

11.80

1500

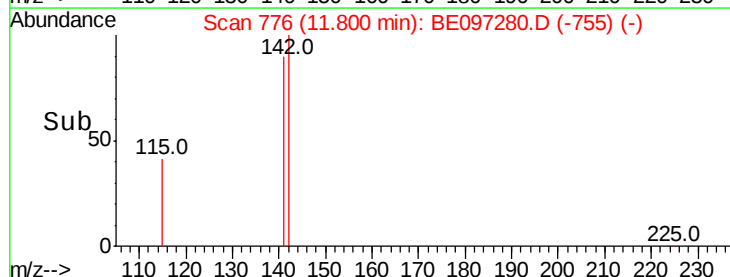
1000

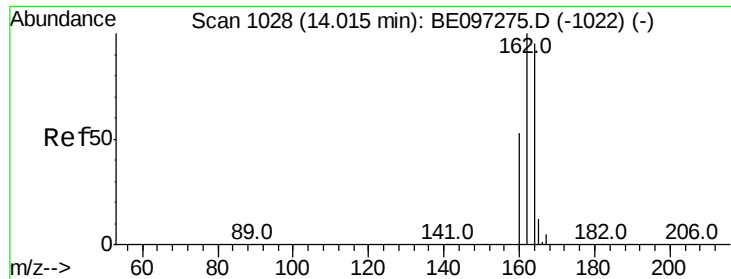
500

0

Time-->

11.70 11.80 11.90

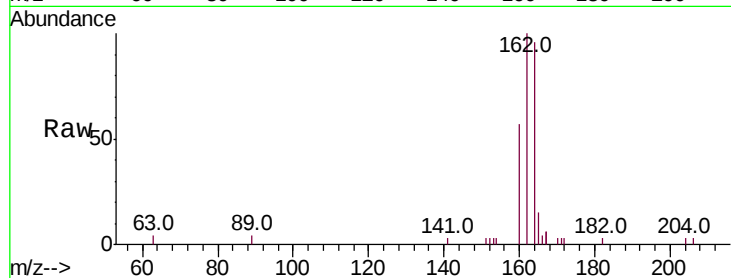




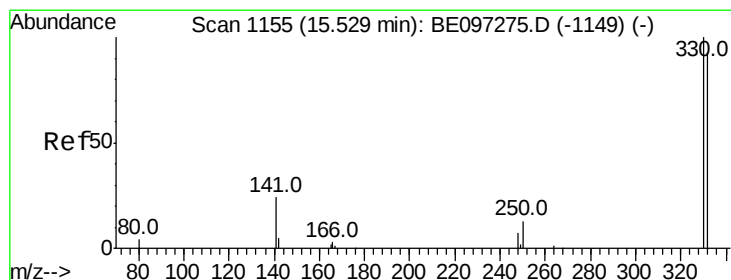
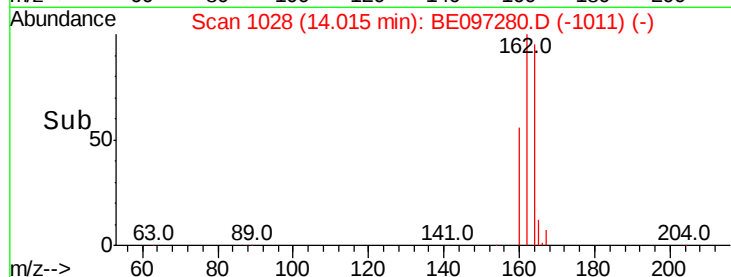
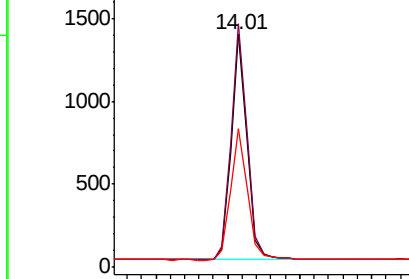
#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.01 min Scan# 1028
 Delta R.T. 0.00 min
 Lab File: BE097280.D
 Acq: 15 Aug 2018 15:52

Instrument :
 BNA_E
 ClientSampleId :
 PB112028BS

Tot Ion:164 Resp: 2066
 Ion Ratio Lower Upper
 164 100
 162 104.6 83.1 124.7
 160 59.6 37.1 55.7#

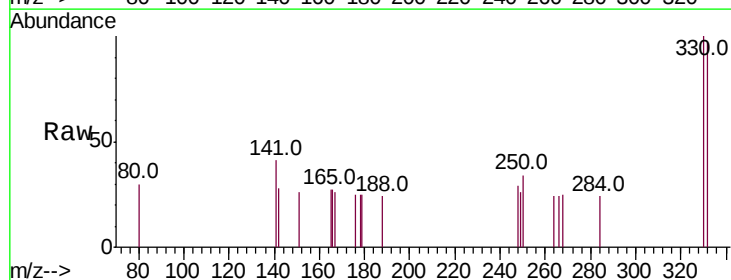


Abundance Ion 164.00 (163.70 to 164.70): E
 2000 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

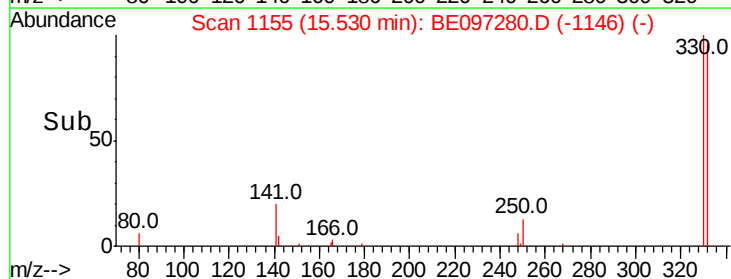
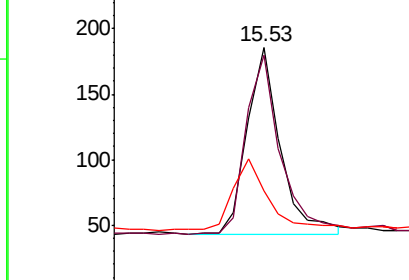


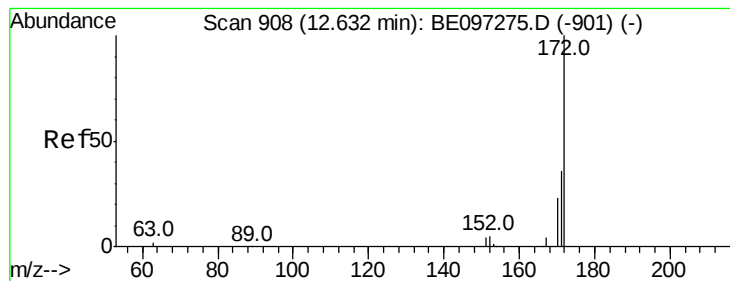
#14
 2,4,6-Tribromophenol
 Concen: 0.416 ng
 RT: 15.53 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: BE097280.D
 Acq: 15 Aug 2018 15:52

Tgt Ion:330 Resp: 262
 Ion Ratio Lower Upper
 330 100
 332 100.0 152.7 229.1#
 141 40.8 33.7 50.5



Abundance Ion 330.00 (329.70 to 330.70): E
 250 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.470 ng

RT: 12.63 min Scan# 908

Delta R.T. 0.00 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB112028BS

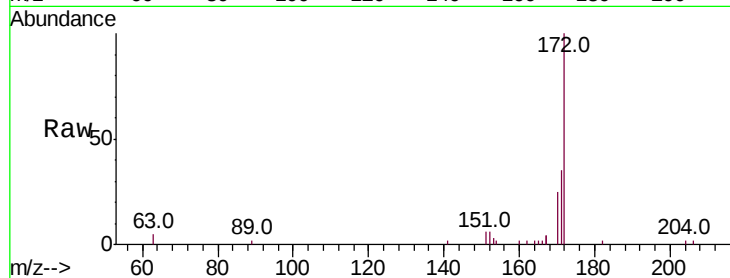
Tot Ion:172 Resp: 3648

Ion Ratio Lower Upper

172 100

171 35.5 29.9 44.9

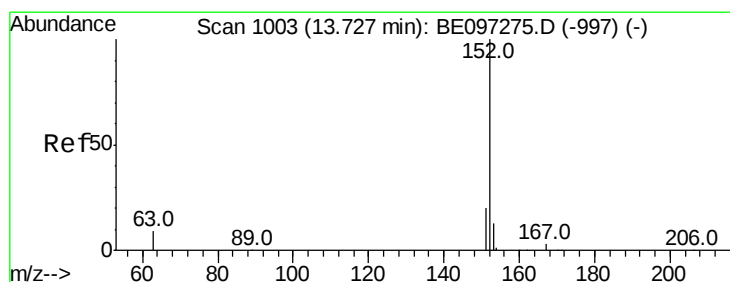
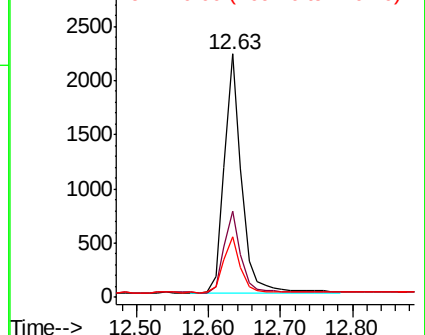
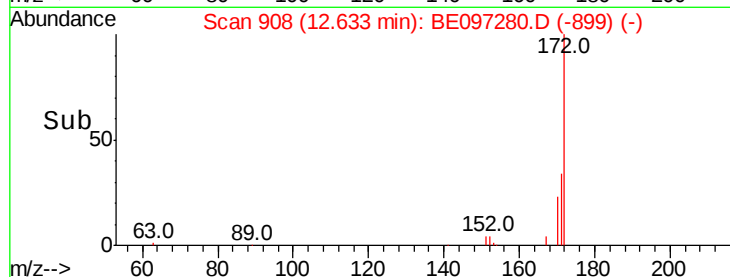
170 24.9 21.8 32.8



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: 0.400 ng

RT: 13.73 min Scan# 1003

Delta R.T. 0.00 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

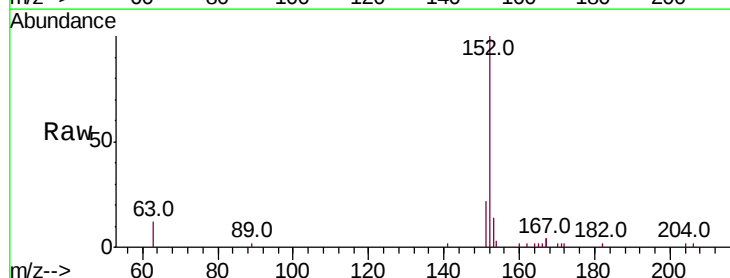
Tgt Ion:152 Resp: 3818

Ion Ratio Lower Upper

152 100

151 19.6 15.7 23.5

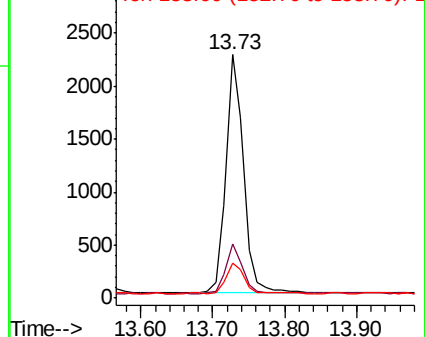
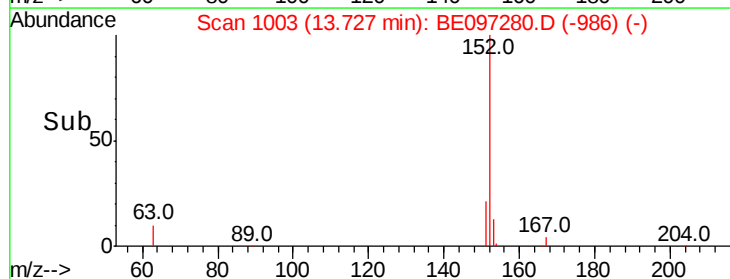
153 12.7 10.5 15.7

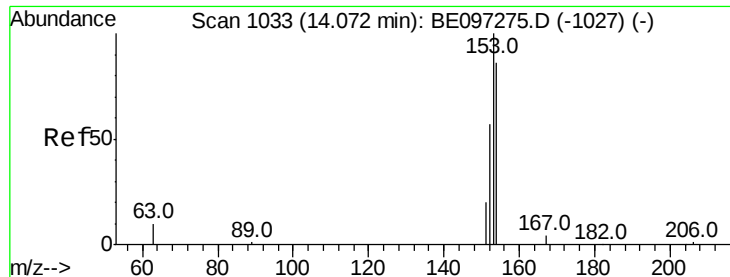


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.405 ng

RT: 14.08 min Scan# 1034

Delta R.T. 0.01 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB112028BS

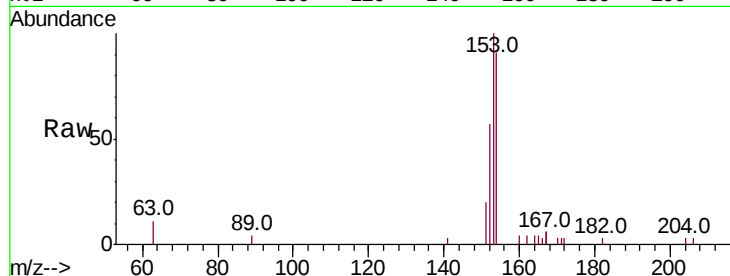
Tot Ion:154 Resp: 2222

Ion Ratio Lower Upper

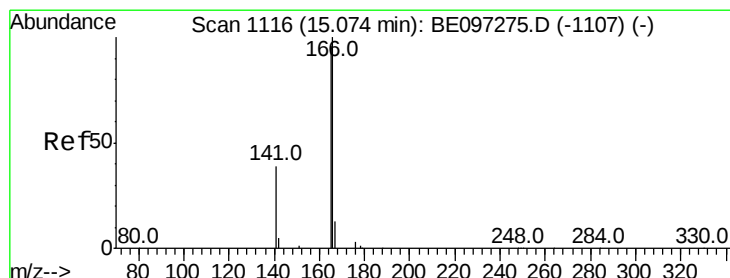
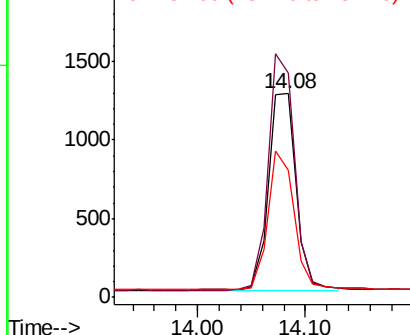
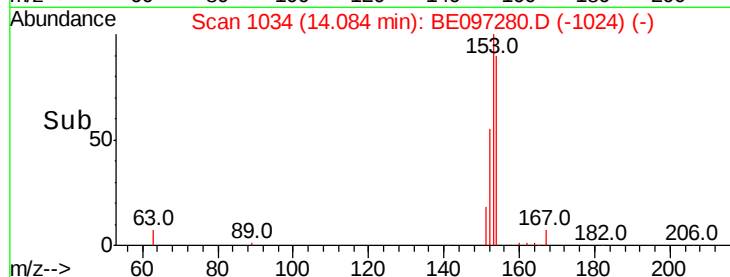
154 100

153 115.2 89.2 133.8

152 67.2 42.0 63.0#



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: 0.460 ng

RT: 15.08 min Scan# 1116

Delta R.T. 0.00 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

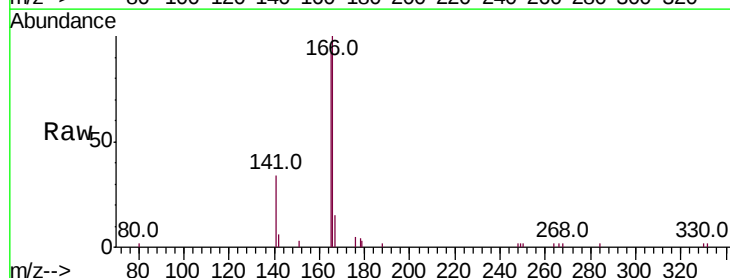
Tgt Ion:166 Resp: 3127

Ion Ratio Lower Upper

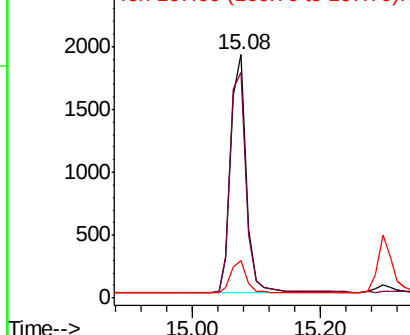
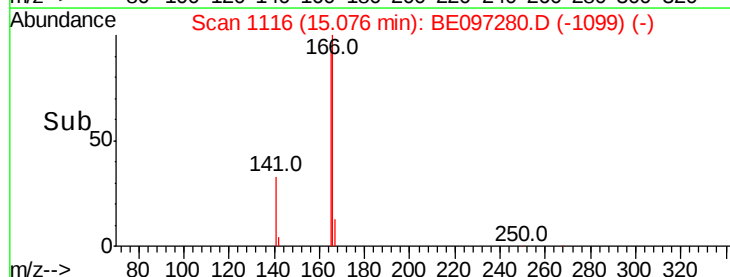
166 100

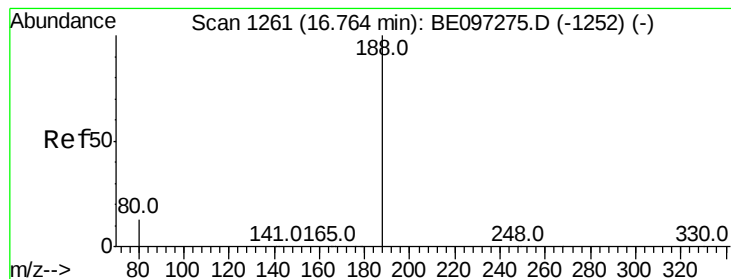
165 98.0 77.8 116.6

167 13.6 42.4 63.6#



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: 16.77 min Scan# 1261

Delta R.T. 0.00 min

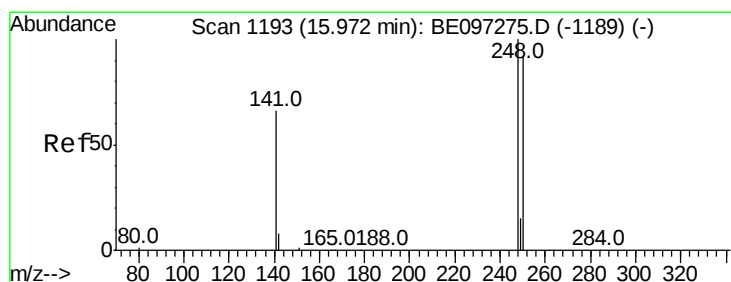
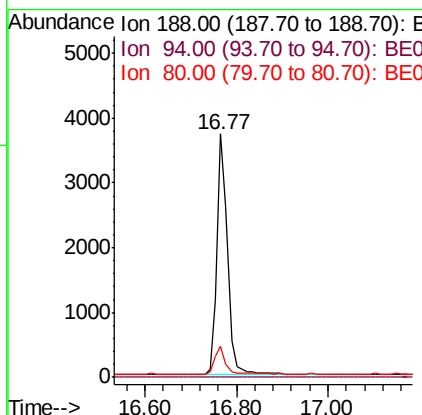
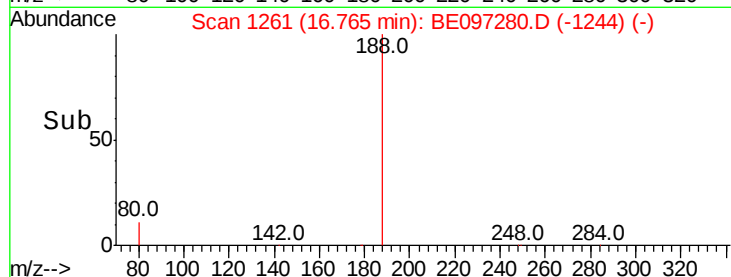
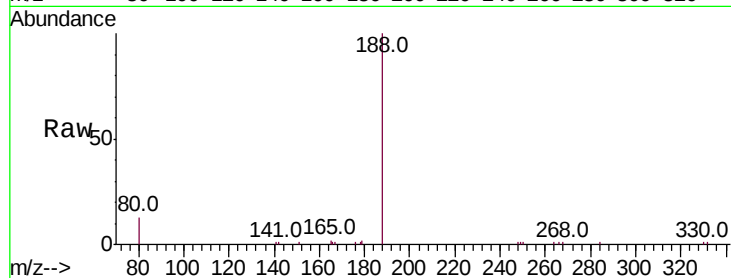
Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

Instrument :
BNA_E
ClientSampleId :
PB112028BS

Tot Ion:188 Resp: 5907

Ion	Ratio	Lower	Upper
188	100		
94	0.0	3.9	5.9#
80	12.5	3.6	5.4#



#20

4-Bromophenyl-phenylether

Concen: 0.332 ng

RT: 15.97 min Scan# 1193

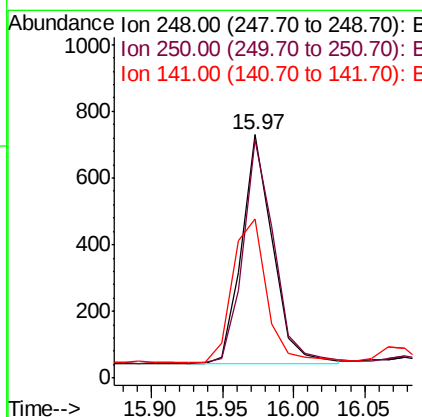
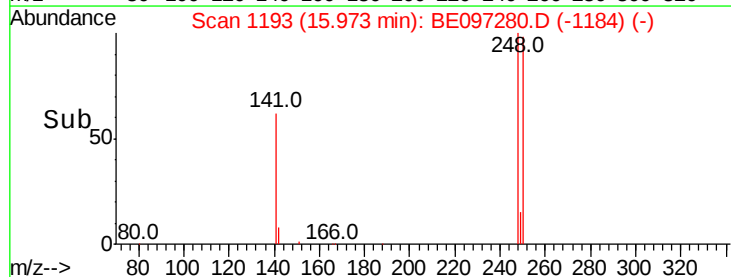
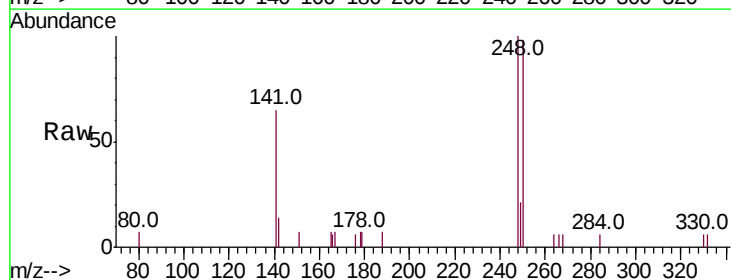
Delta R.T. 0.00 min

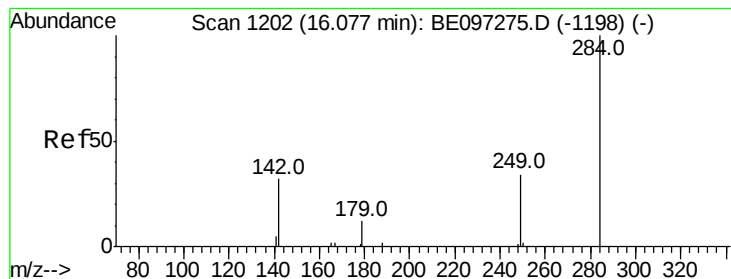
Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

Tgt Ion:248 Resp: 1026

Ion	Ratio	Lower	Upper
248	100		
250	98.1	62.7	94.1#
141	65.3	48.2	72.2





#21

Hexachlorobenzene

Concen: 0.350 ng

RT: 16.08 min Scan# 1202

Delta R.T. 0.00 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB112028BS

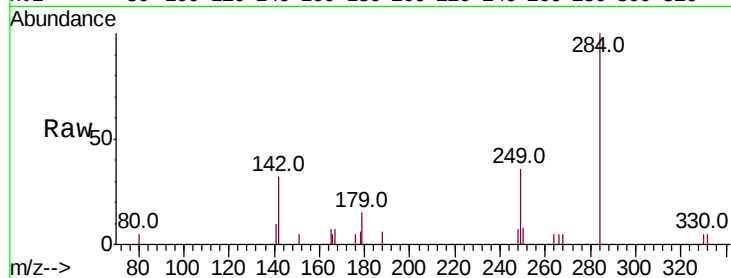
Tot Ion:284 Resp: 1225

Ion Ratio Lower Upper

284 100

142 33.9 22.1 33.1#

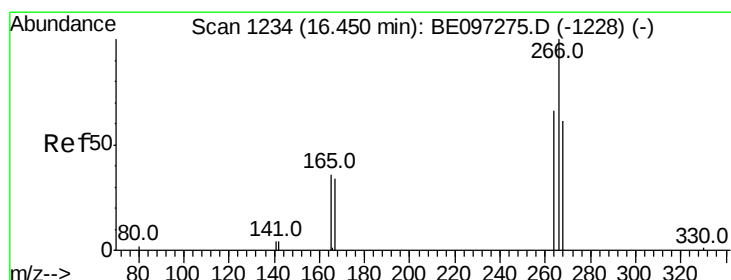
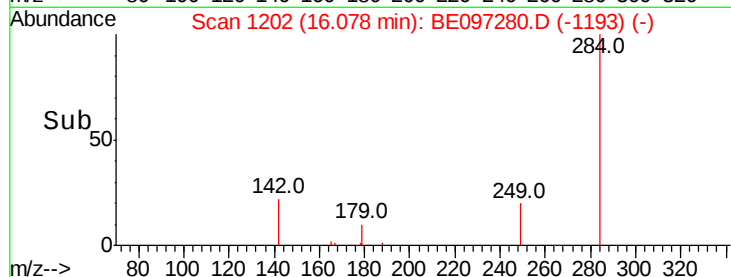
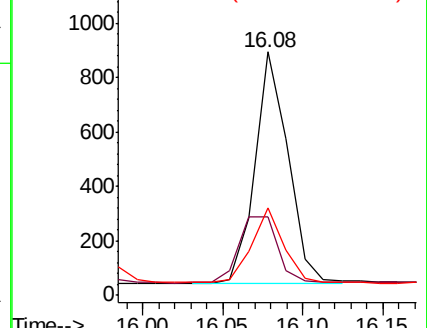
249 30.3 34.8 52.2#



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.769 ng

RT: 16.44 min Scan# 1233

Delta R.T. -0.01 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

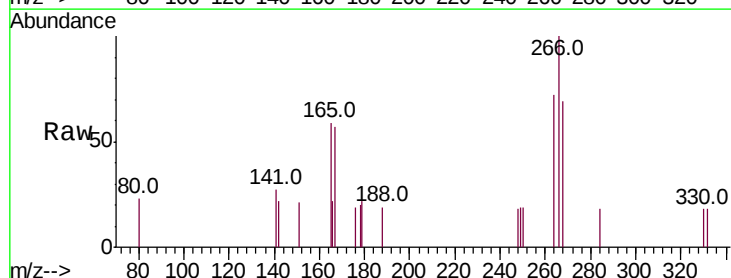
Tgt Ion:266 Resp: 536

Ion Ratio Lower Upper

266 100

264 71.8 72.5 108.7#

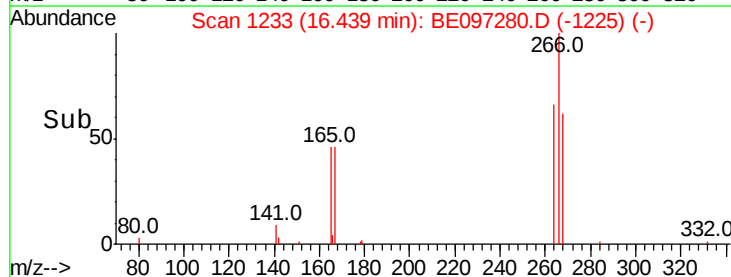
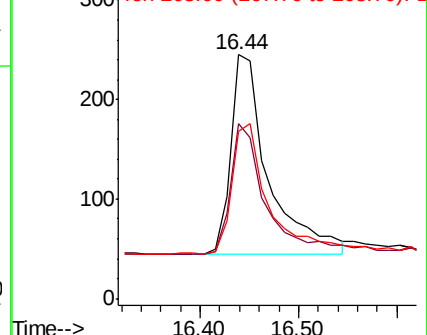
268 68.6 73.8 110.6#

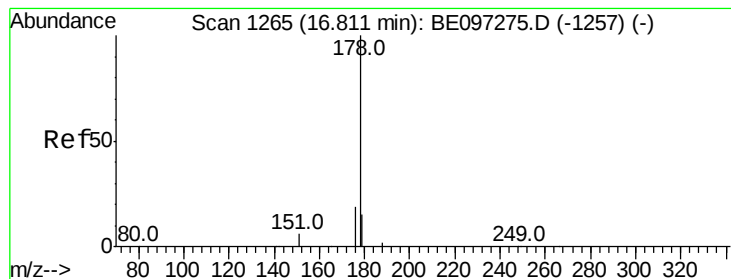


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.401 ng

RT: 16.81 min Scan# 1265

Delta R.T. 0.00 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB112028BS

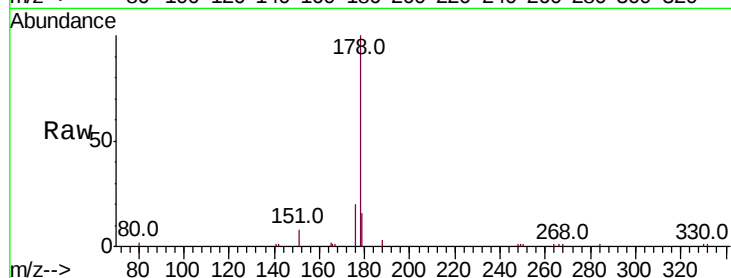
Tot Ion:178 Resp: 5720

Ion Ratio Lower Upper

178 100

176 19.7 15.1 22.7

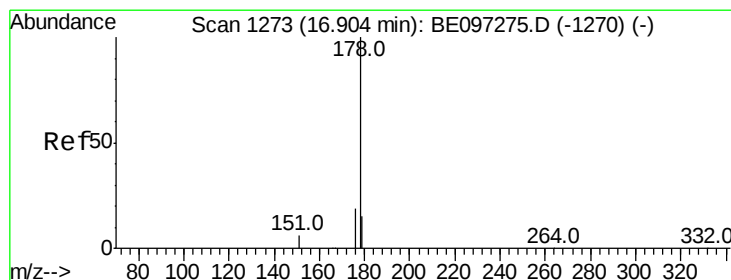
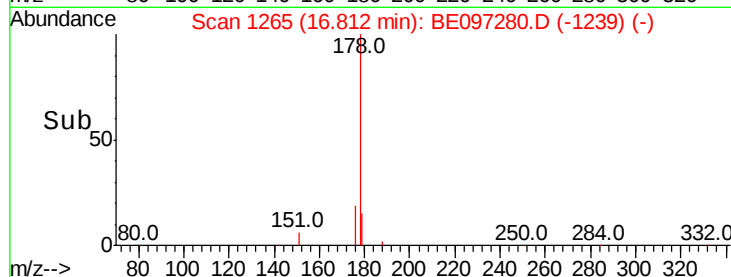
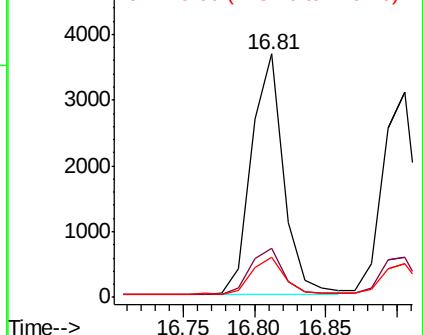
179 15.9 11.8 17.6



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



#24

Anthracene

Concen: 0.402 ng

RT: 16.91 min Scan# 1273

Delta R.T. 0.00 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

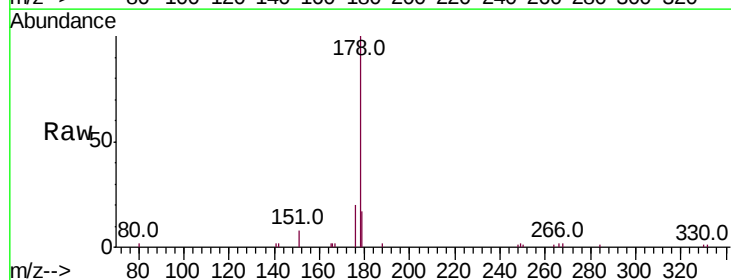
Tgt Ion:178 Resp: 5142

Ion Ratio Lower Upper

178 100

176 19.4 12.8 19.2#

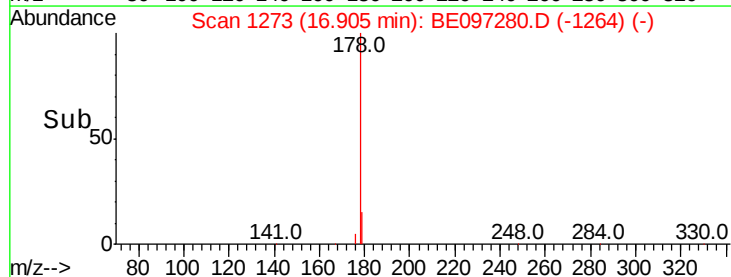
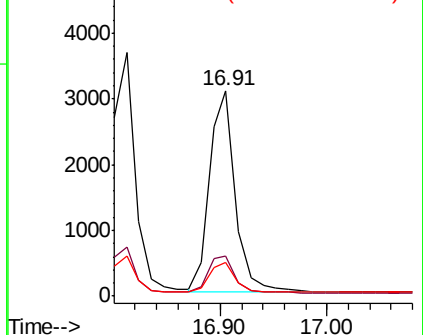
179 14.9 13.0 19.6

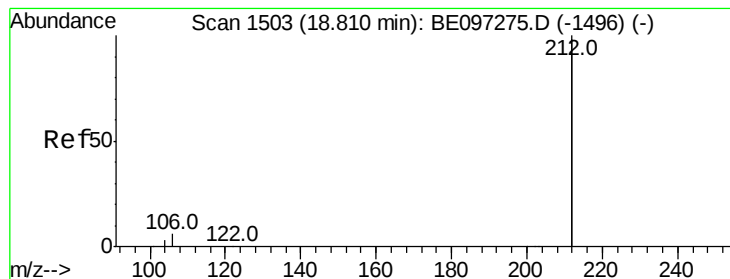


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.422 ng

RT: 18.81 min Scan# 1503

Delta R.T. 0.00 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB112028BS

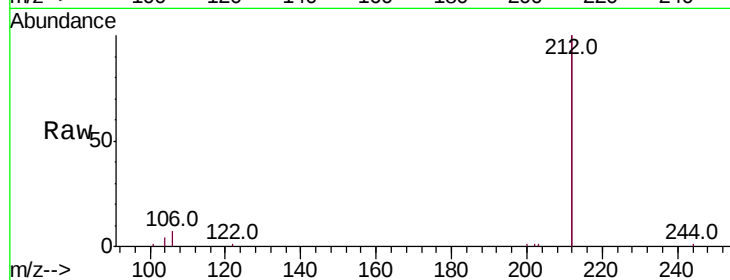
Tot Ion:212 Resp: 24891

Ion Ratio Lower Upper

212 100

106 3.0 2.8 4.2

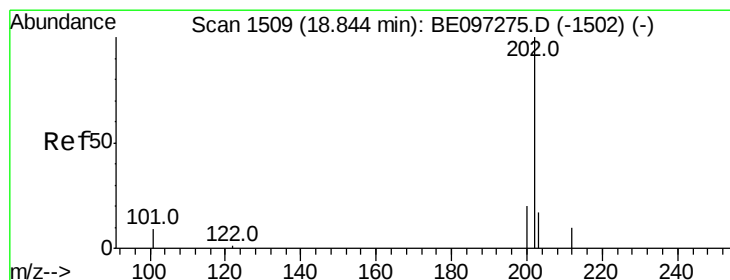
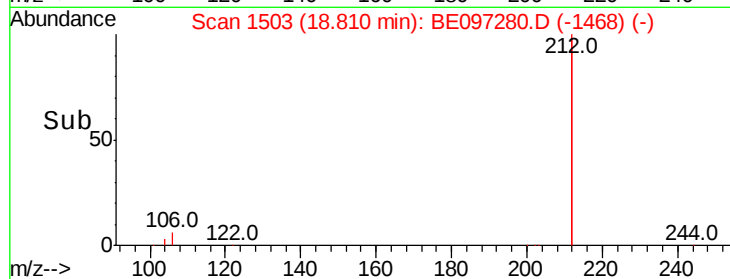
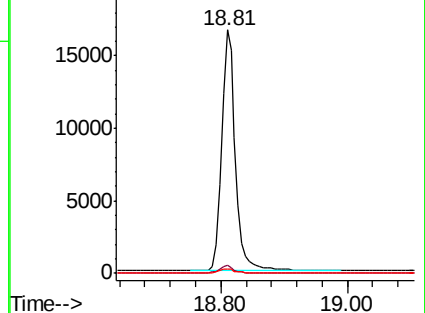
104 1.7 1.6 2.4



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: 0.424 ng

RT: 18.84 min Scan# 1508

Delta R.T. -0.01 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

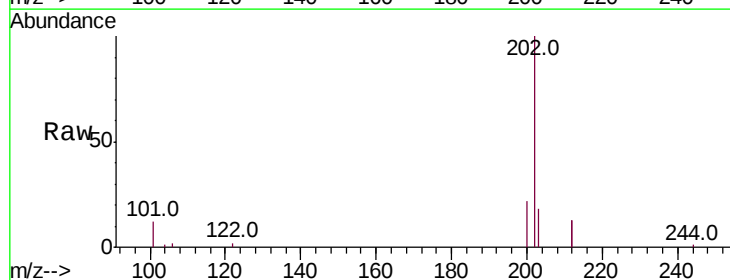
Tgt Ion:202 Resp: 6691

Ion Ratio Lower Upper

202 100

101 10.7 9.8 14.8

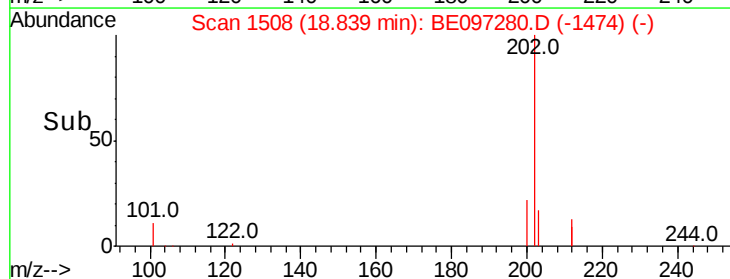
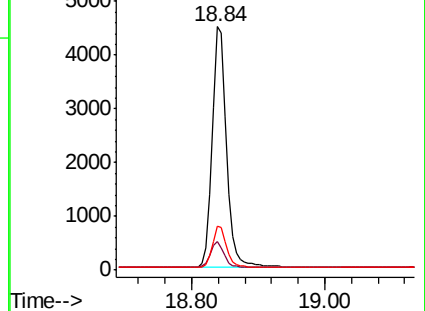
203 16.9 13.7 20.5

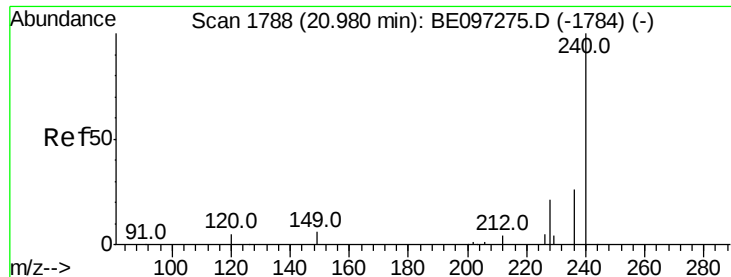


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

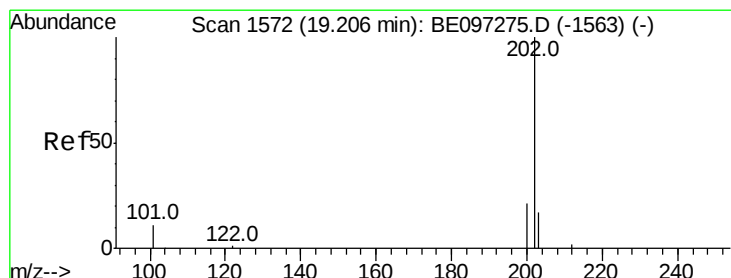
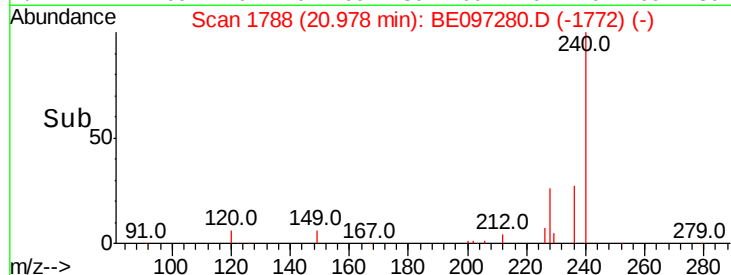
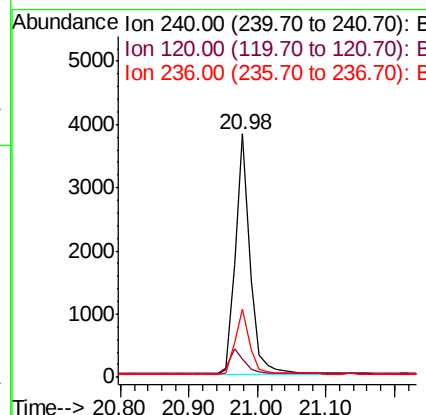
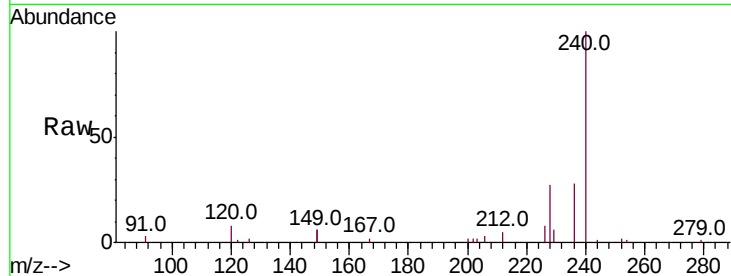




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 20.98 min Scan# 1788
 Delta R.T. -0.00 min
 Lab File: BE097280.D
 Acq: 15 Aug 2018 15:52

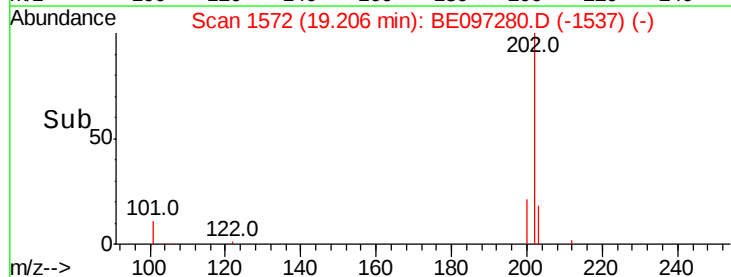
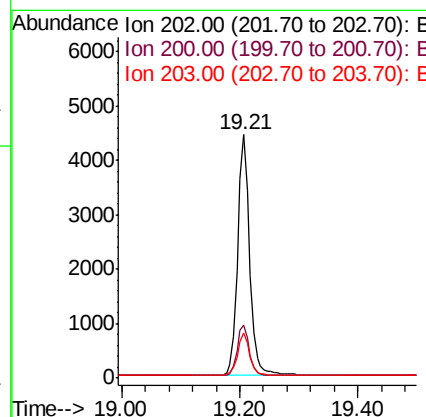
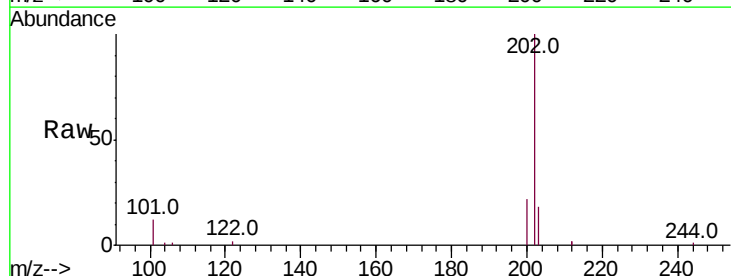
Instrument :
 BNA_E
 ClientSampleId :
 PB112028BS

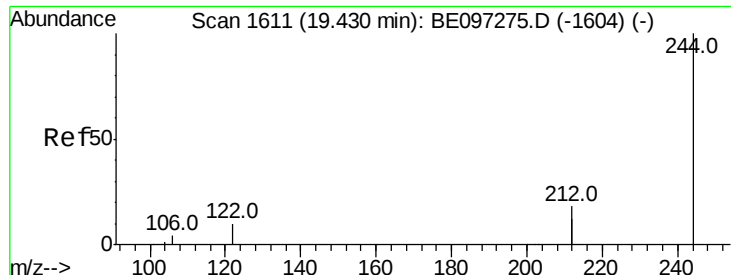
Tot Ion:240 Resp: 5699
 Ion Ratio Lower Upper
 240 100
 120 7.8 5.5 8.3
 236 28.0 20.7 31.1



#28
 Pyrene
 Concen: 0.404 ng
 RT: 19.21 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: BE097280.D
 Acq: 15 Aug 2018 15:52

Tgt Ion:202 Resp: 6208
 Ion Ratio Lower Upper
 202 100
 200 21.4 16.6 25.0
 203 17.7 13.8 20.8

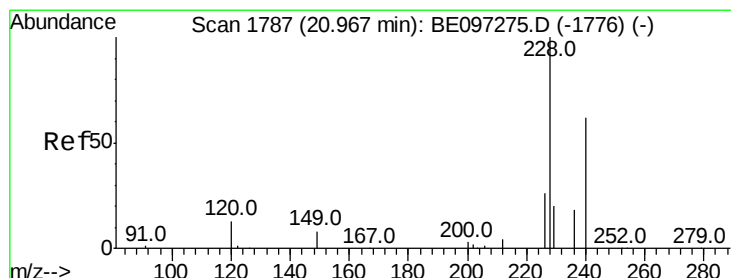
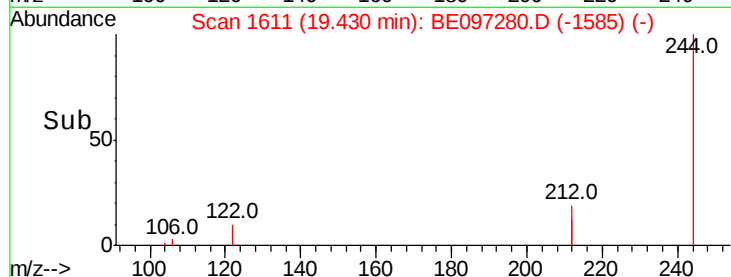
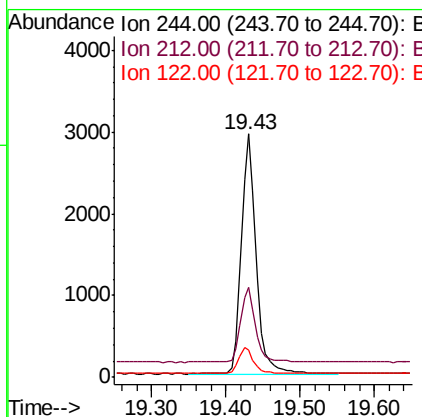
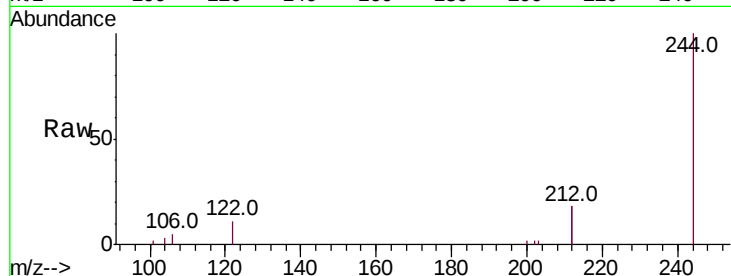




#29
 Terphenyl-d14
 Concen: 0.379 ng
 RT: 19.43 min Scan# 1611
 Delta R.T. 0.00 min
 Lab File: BE097280.D
 Acq: 15 Aug 2018 15:52

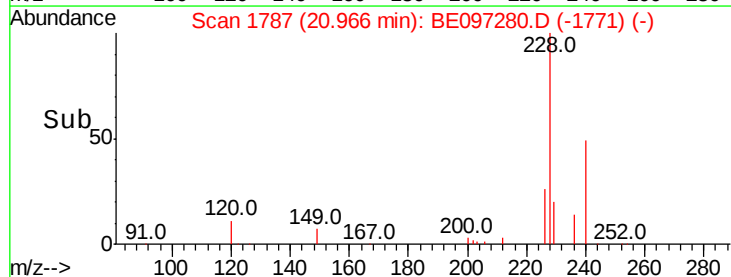
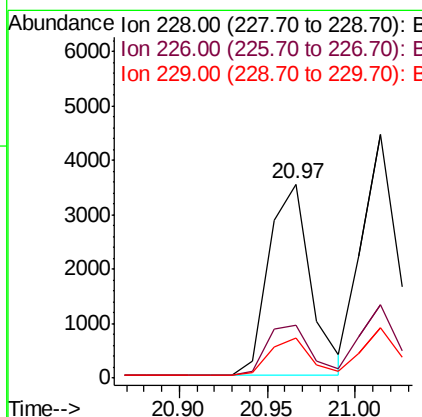
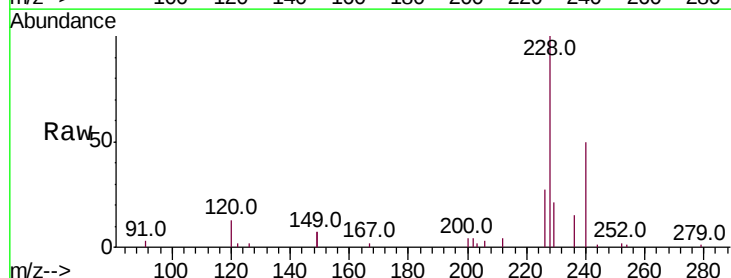
Instrument :
 BNA_E
 ClientSampleId :
 PB112028BS

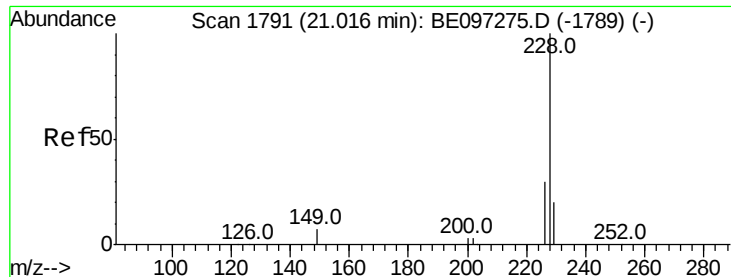
Tot Ion:244 Resp: 4063
 Ion Ratio Lower Upper
 244 100
 212 36.7 25.4 38.0
 122 11.3 8.1 12.1



#30
 Benzo(a)anthracene
 Concen: 0.408 ng
 RT: 20.97 min Scan# 1787
 Delta R.T. -0.00 min
 Lab File: BE097280.D
 Acq: 15 Aug 2018 15:52

Tgt Ion:228 Resp: 5845
 Ion Ratio Lower Upper
 228 100
 226 27.0 24.0 36.0
 229 21.0 16.0 24.0

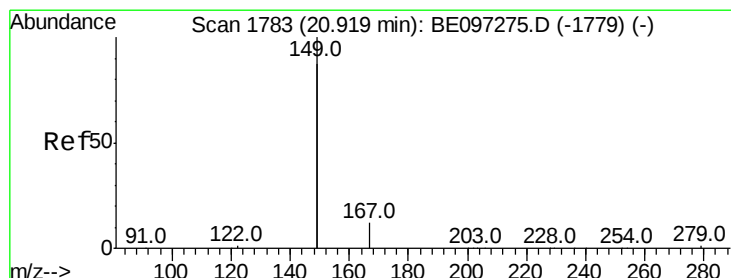
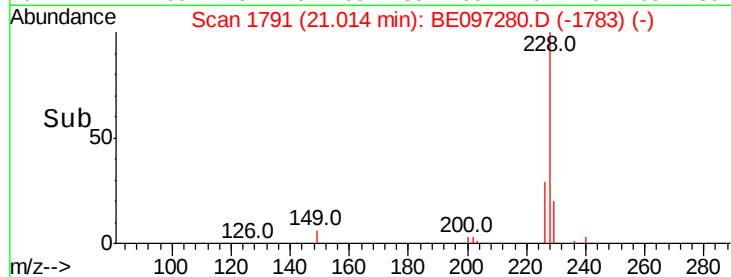
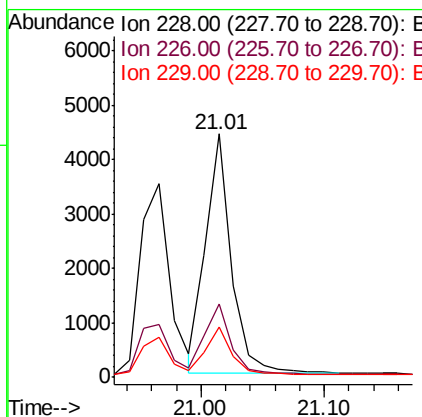
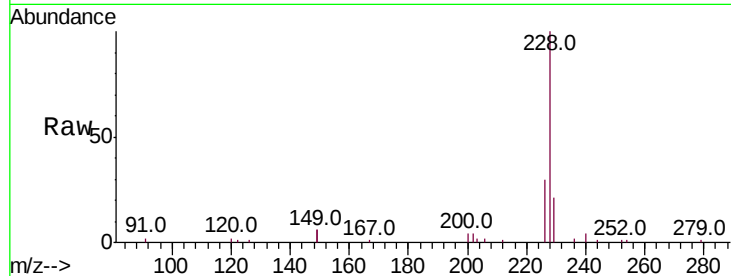




#31
Chrysene
Concen: 0.433 ng
RT: 21.01 min Scan# 1791
Delta R.T. -0.00 min
Lab File: BE097280.D
Acq: 15 Aug 2018 15:52

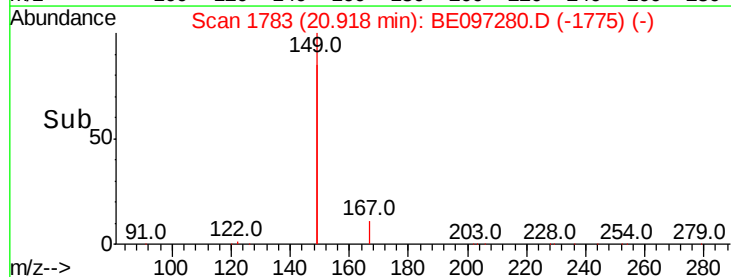
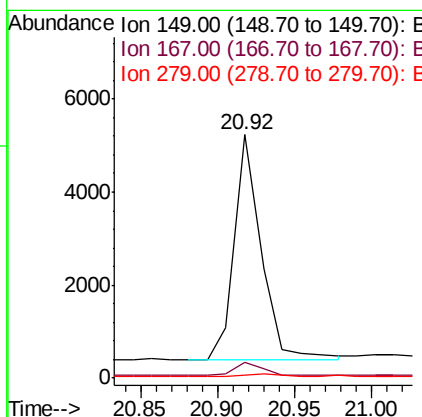
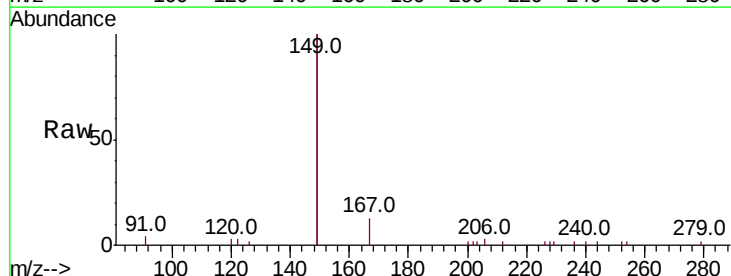
Instrument :
BNA_E
ClientSampleId :
PB112028BS

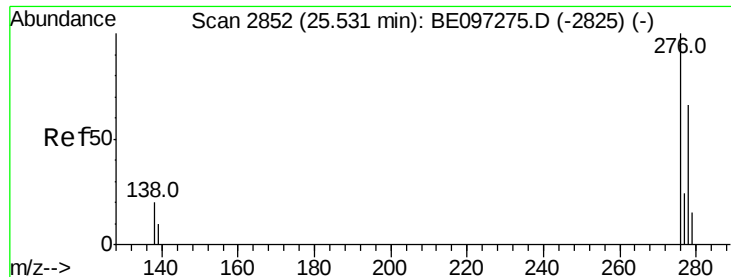
Tot Ion:228 Resp: 6356
Ion Ratio Lower Upper
228 100
226 30.0 24.0 36.0
229 20.5 16.0 24.0



#32
Bis(2-ethylhexyl)phthalate
Concen: 0.313 ng
RT: 20.92 min Scan# 1783
Delta R.T. -0.00 min
Lab File: BE097280.D
Acq: 15 Aug 2018 15:52

Tgt Ion:149 Resp: 5797
Ion Ratio Lower Upper
149 100
167 6.7 5.4 8.0
279 1.1 0.7 1.1





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.415 ng

RT: 25.52 min Scan# 2850

Delta R.T. -0.01 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB112028BS

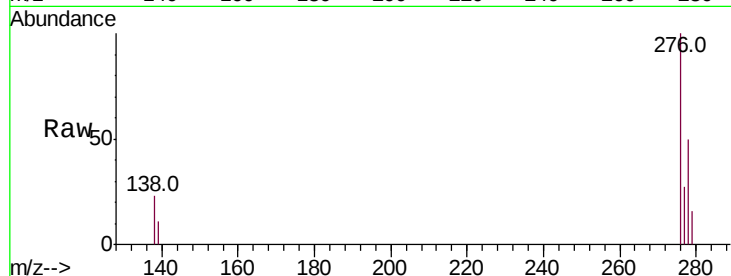
Tot Ion:276 Resp: 6560

Ion Ratio Lower Upper

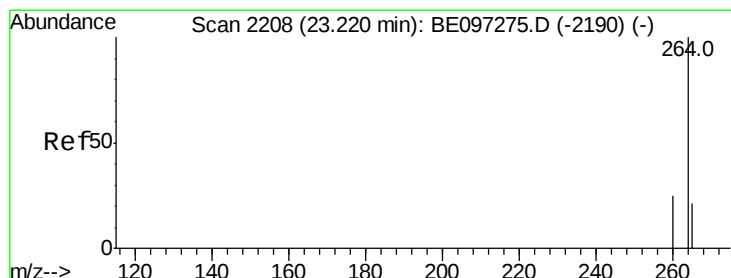
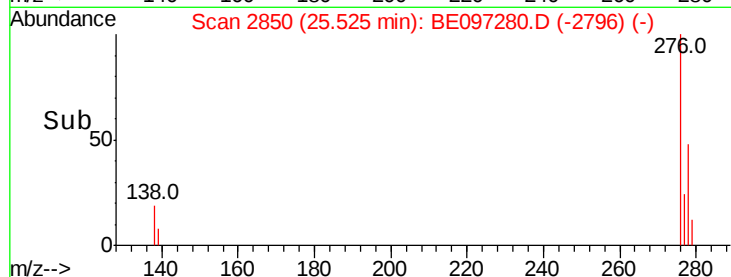
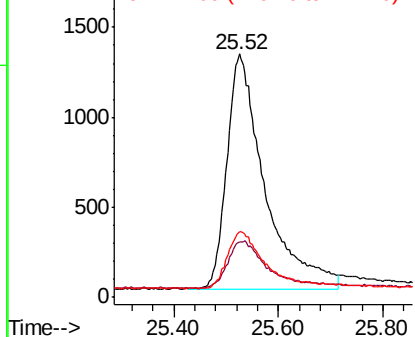
276 100

138 20.4 22.5 33.7#

277 23.4 19.9 29.9



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: 23.22 min Scan# 2207

Delta R.T. -0.00 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

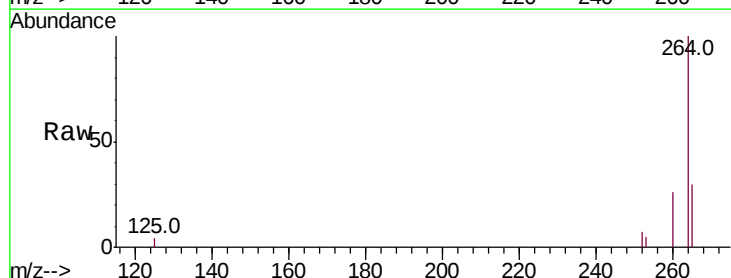
Tgt Ion:264 Resp: 5009

Ion Ratio Lower Upper

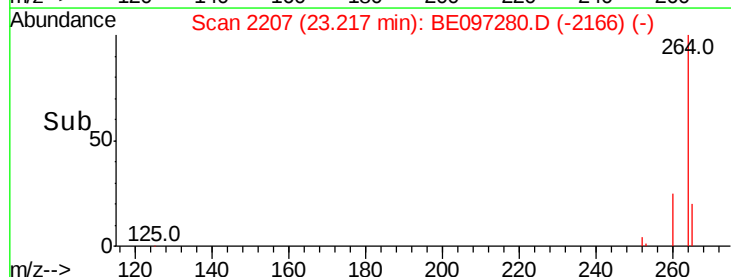
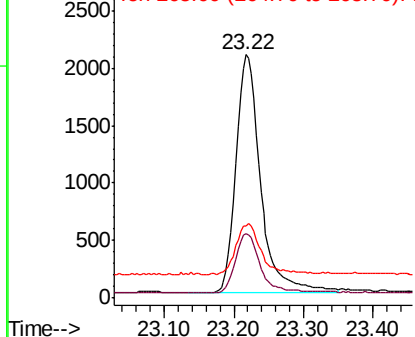
264 100

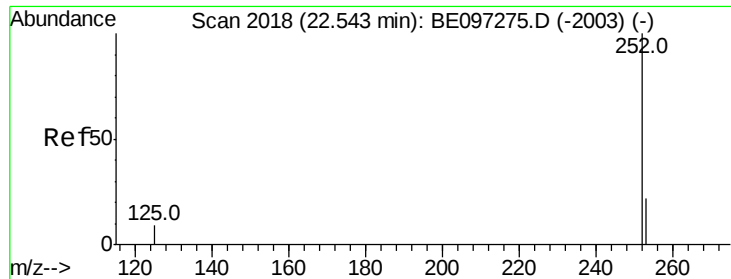
260 26.3 20.5 30.7

265 29.6 22.8 34.2



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: 0.448 ng

RT: 22.54 min Scan# 2018

Delta R.T. 0.00 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB112028BS

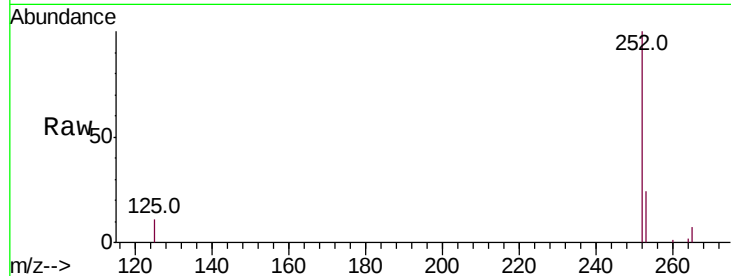
Tot Ion:252 Resp: 5580

Ion Ratio Lower Upper

252 100

253 24.0 20.0 30.0

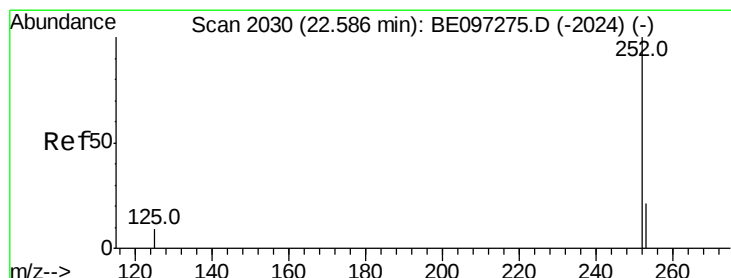
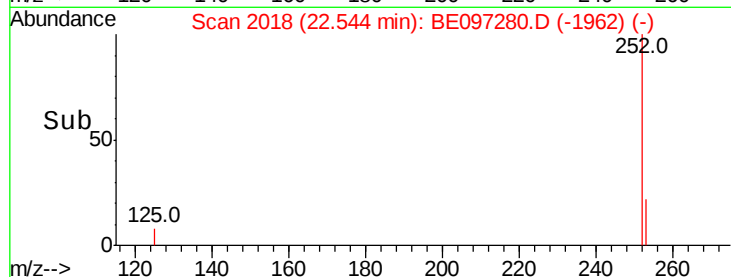
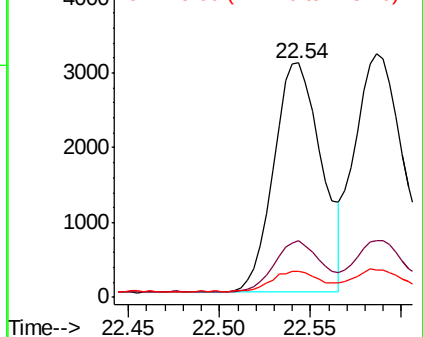
125 11.0 16.0 24.0#



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: 0.444 ng

RT: 22.59 min Scan# 2030

Delta R.T. 0.00 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

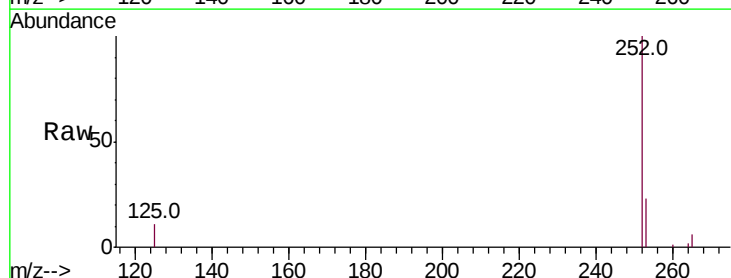
Tgt Ion:252 Resp: 6731

Ion Ratio Lower Upper

252 100

253 23.3 16.0 24.0

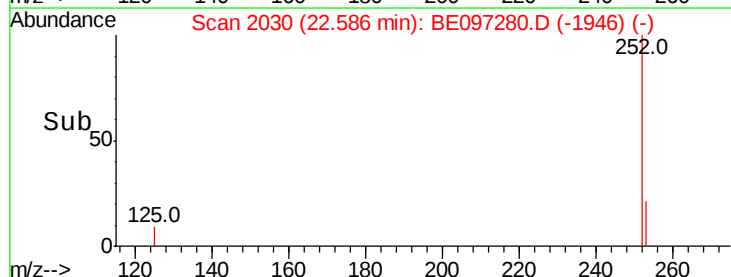
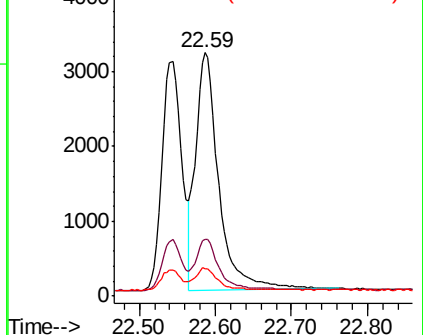
125 11.4 8.0 12.0

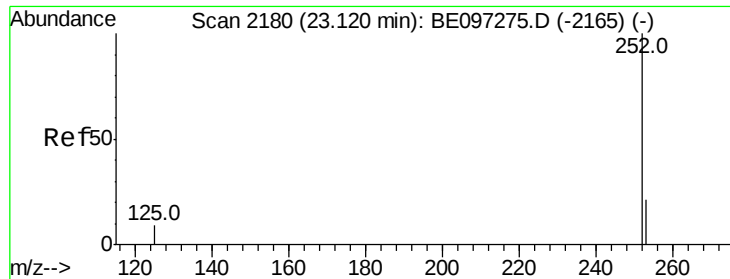


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.435 ng

RT: 23.12 min Scan# 2180

Delta R.T. 0.00 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB112028BS

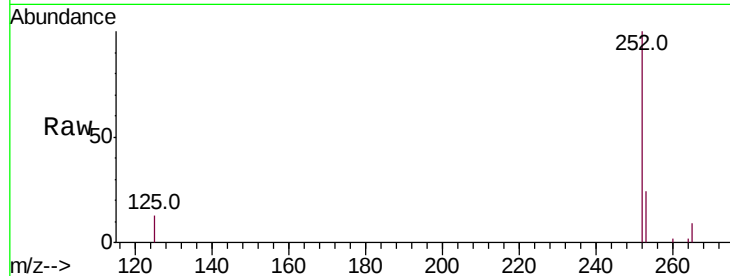
Tot Ion:252 Resp: 5438

Ion Ratio Lower Upper

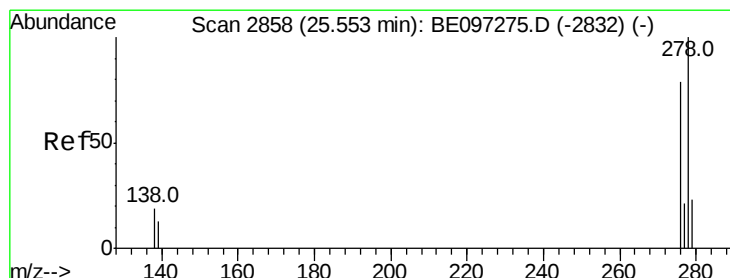
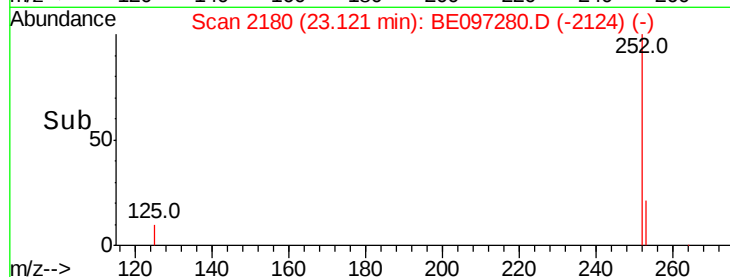
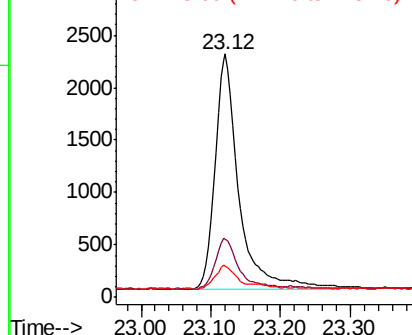
252 100

253 23.9 16.0 24.0

125 12.9 12.0 18.0



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: 0.427 ng

RT: 25.55 min Scan# 2858

Delta R.T. 0.00 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

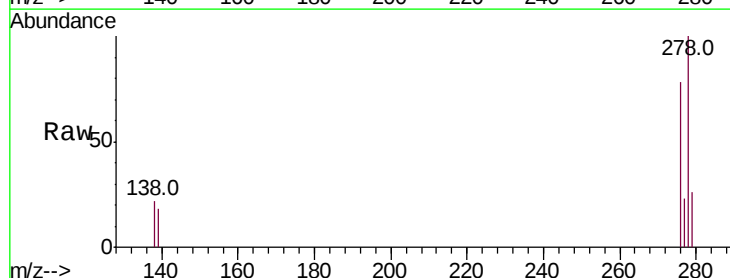
Tgt Ion:278 Resp: 5274

Ion Ratio Lower Upper

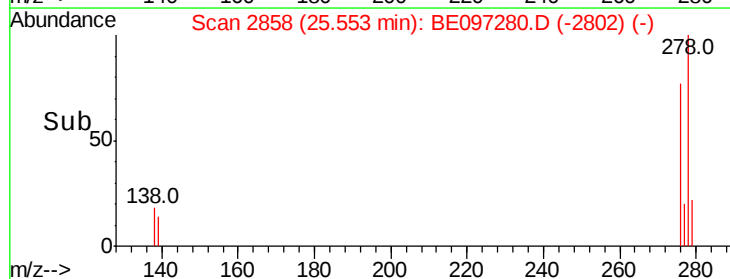
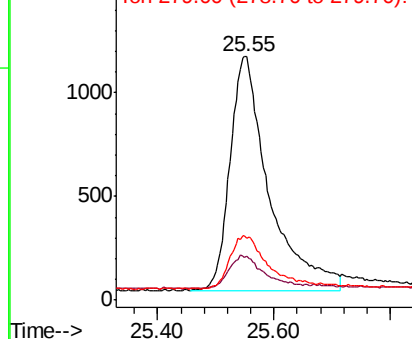
278 100

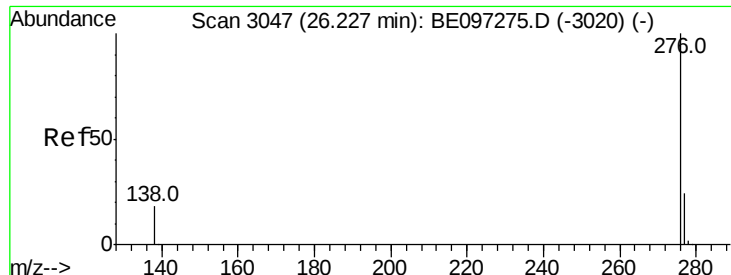
139 18.1 16.0 24.0

279 25.6 20.0 30.0



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.420 ng

RT: 26.23 min Scan# 3047

Delta R.T. 0.00 min

Lab File: BE097280.D

Acq: 15 Aug 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB112028BS

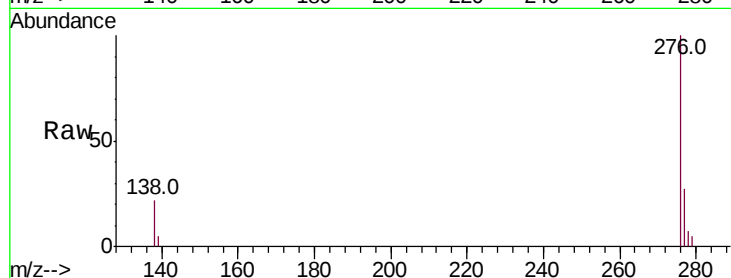
Tot Ion:276 Resp: 5231

Ion Ratio Lower Upper

276 100

277 26.7 16.0 24.0#

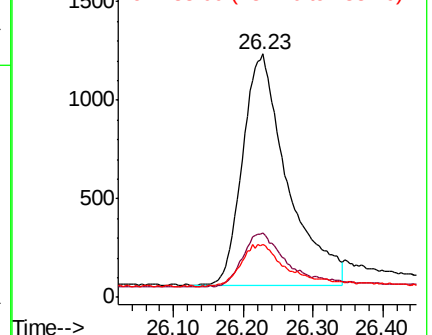
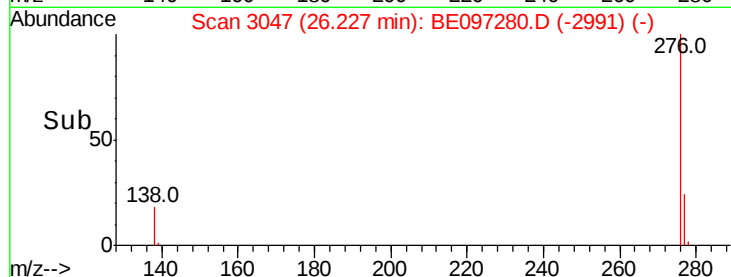
138 21.5 20.0 30.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E



Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE081518\
 Data File : BE097280.D
 Acq On : 15 Aug 2018 15:52
 Operator : SJ/JU
 Sample : PB112028BS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB112028BS

Quant Time: Aug 15 17:31:03 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE081518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 15 14:23:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.39	152	957	0.40	ng	0.00
7) Naphthalene-d8	10.15	136	4097	0.40	ng	0.00
13) Acenaphthene-d10	14.01	164	2066	0.40	ng	0.00
19) Phenanthrene-d10	16.77	188	5907	0.40	ng	0.00
27) Chrysene-d12	20.98	240	5699	0.40	ng	0.00
34) Perylene-d12	23.22	264	5009	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.06	112	1171	0.37	ng	0.00
5) Phenol-d6	6.61	99	1413	0.31	ng	0.00
8) Nitrobenzene-d5	8.52	82	1525	0.41	ng	0.00
11) 2-Methylnaphthalene-d10	11.72	152	4131	0.69	ng	0.00
14) 2,4,6-Tribromophenol	15.53	330	262	0.42	ng	0.00
15) 2-Fluorobiphenyl	12.63	172	3648	0.47	ng	0.00
25) Fluoranthene-d10	18.81	212	24891	0.42	ng	0.00
29) Terphenyl-d14	19.43	244	4063	0.38	ng	0.00

Target Compounds				Qvalue		
2) 1,4-Dioxane	3.11	88	368	0.342	ng	94
3) n-Nitrosodimethylamine	3.38	42	601	0.482	ng	# 92
6) bis(2-Chloroethyl)ether	6.84	93	1215	0.339	ng	99
9) Naphthalene	10.18	128	15204	0.397	ng	99
10) Hexachlorobutadiene	10.48	225	689	0.398	ng	97
12) 2-Methylnaphthalene	11.80	142	2430	0.387	ng	96
16) Acenaphthylene	13.73	152	3818	0.400	ng	100
17) Acenaphthene	14.08	154	2222	0.405	ng	# 91
18) Fluorene	15.08	166	3127	0.460	ng	# 80
20) 4-Bromophenyl-phenylether	15.97	248	1026	0.332	ng	# 84
21) Hexachlorobenzene	16.08	284	1225	0.350	ng	# 83
22) Pentachlorophenol	16.44	266	536	0.769	ng	# 78
23) Phenanthrene	16.81	178	5720	0.401	ng	98
24) Anthracene	16.91	178	5142	0.402	ng	# 94
26) Fluoranthene	18.84	202	6691	0.424	ng	98
28) Pyrene	19.21	202	6208	0.404	ng	99
30) Benzo(a)anthracene	20.97	228	5845	0.408	ng	96
31) Chrysene	21.01	228	6356	0.433	ng	99
32) Bis(2-ethylhexyl)phthalate	20.92	149	5797	0.313	ng	100
33) Indeno(1,2,3-cd)pyrene	25.52	276	6560	0.415	ng	# 91
35) Benzo(b)fluoranthene	22.54	252	5580	0.448	ng	# 90
36) Benzo(k)fluoranthene	22.59	252	6731	0.444	ng	94
37) Benzo(a)pyrene	23.12	252	5438	0.435	ng	93
38) Dibenzo(a,h)anthracene	25.55	278	5274	0.427	ng	97
39) Benzo(g,h,i)perylene	26.23	276	5231	0.420	ng	# 90

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