

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE082018\
 Data File : BE097339.D
 Acq On : 20 Aug 2018 19:29
 Operator : SJ/JU
 Sample : PB112113BSD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB112113BSD

Quant Time: Aug 21 05:05:36 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE082018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 20 18:32:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.39	152	1033	0.40	ng	0.00
7) Naphthalene-d8	10.13	136	4261	0.40	ng	0.00
13) Acenaphthene-d10	14.01	164	1962	0.40	ng	0.00
19) Phenanthrene-d10	16.77	188	5783	0.40	ng	0.00
27) Chrysene-d12	20.98	240	5526	0.40	ng	0.00
34) Perylene-d12	23.22	264	4216	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.06	112	1265	0.53	ng	0.01
5) Phenol-d6	6.60	99	1469	0.42	ng	0.00
8) Nitrobenzene-d5	8.52	82	1014	0.56	ng	0.00
11) 2-Methylnaphthalene-d10	11.72	152	3446	0.60	ng	0.00
14) 2,4,6-Tribromophenol	15.53	330	194	0.52	ng	0.00
15) 2-Fluorobiphenyl	12.63	172	3747	0.47	ng	0.00
25) Fluoranthene-d10	18.81	212	28700	0.56	ng	0.00
29) Terphenyl-d14	19.43	244	4630	0.42	ng	0.00

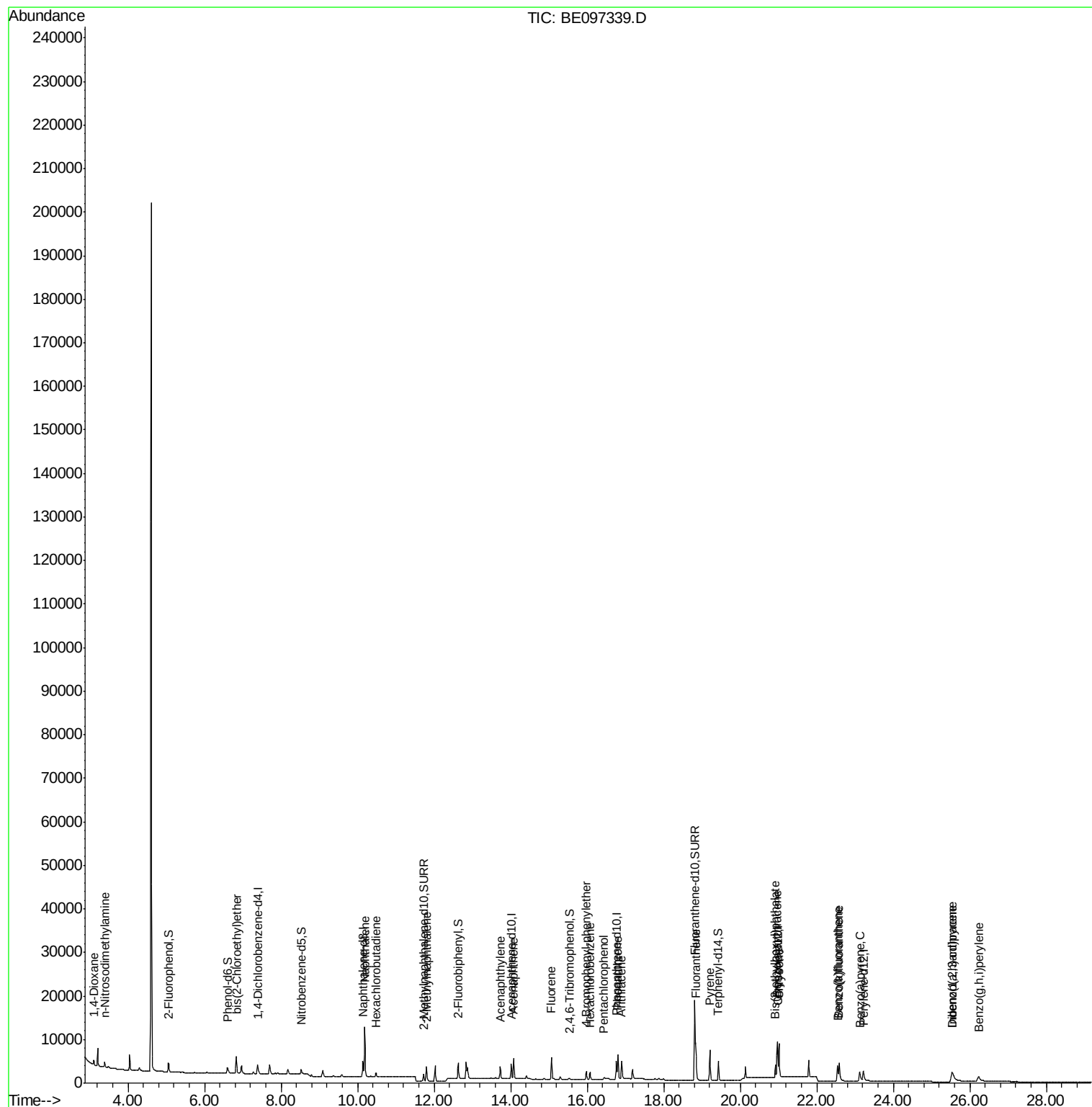
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.11	88	649	0.422	ng	# 83
3) n-Nitrosodimethylamine	3.38	42	853	0.597	ng	# 80
6) bis(2-Chloroethyl)ether	6.84	93	1464	0.419	ng	97
9) Naphthalene	10.18	128	18826	0.482	ng	100
10) Hexachlorobutadiene	10.47	225	776	0.452	ng	97
12) 2-Methylnaphthalene	11.80	142	2791	0.475	ng	99
16) Acenaphthylene	13.73	152	3297	0.442	ng	99
17) Acenaphthene	14.07	154	2440	0.462	ng	94
18) Fluorene	15.06	166	3308	0.513	ng	# 80
20) 4-Bromophenyl-phenylether	15.97	248	1072	0.411	ng	# 88
21) Hexachlorobenzene	16.08	284	1334	0.381	ng	# 82
22) Pentachlorophenol	16.44	266	334	1.024	ng	85
23) Phenanthrene	16.80	178	6775	0.480	ng	98
24) Anthracene	16.89	178	5457	0.523	ng	96
26) Fluoranthene	18.84	202	7740	0.570	ng	98
28) Pyrene	19.20	202	7260	0.489	ng	99
30) Benzo(a)anthracene	20.97	228	6074	0.511	ng	96
31) Chrysene	21.02	228	7421	0.477	ng	99
32) Bis(2-ethylhexyl)phthalate	20.92	149	3436	0.518	ng	99
33) Indeno(1,2,3-cd)pyrene	25.53	276	5277	0.533	ng	# 88
35) Benzo(b)fluoranthene	22.54	252	5447	0.490	ng	# 89
36) Benzo(k)fluoranthene	22.59	252	7483	0.480	ng	94
37) Benzo(a)pyrene	23.12	252	4804	0.475	ng	# 93
38) Dibenzo(a,h)anthracene	25.55	278	4010	0.463	ng	96
39) Benzo(g,h,i)perylene	26.23	276	4386	0.503	ng	# 91

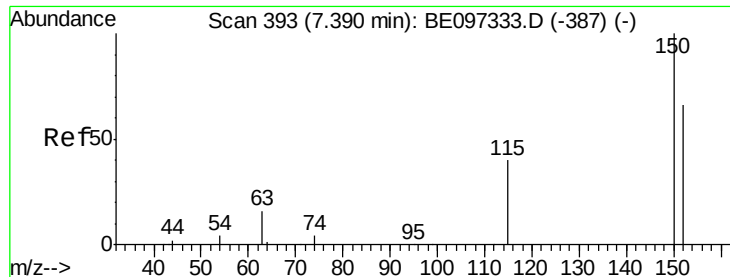
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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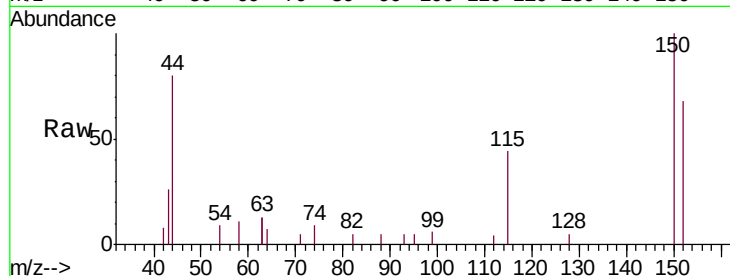


#1

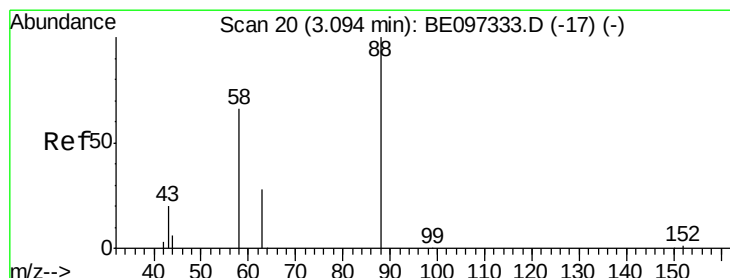
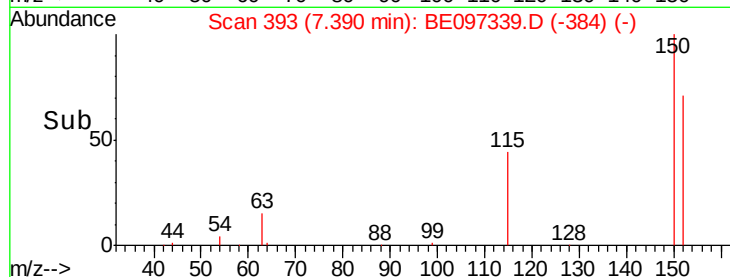
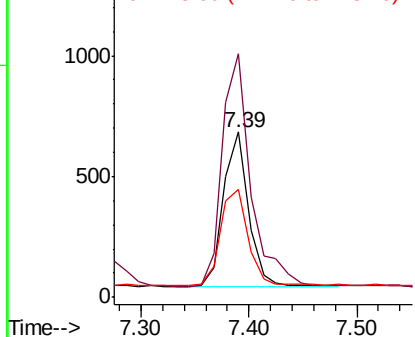
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.39 min Scan# 393
Delta R.T. 0.00 min
Lab File: BE097339.D
Acq: 20 Aug 2018 19:29

Instrument :
BNA_E
ClientSampleId :
PB112113BSD

Tgt Ion:152 Resp: 1033
Ion Ratio Lower Upper
152 100
150 147.2 117.2 175.8
115 65.4 57.0 85.6



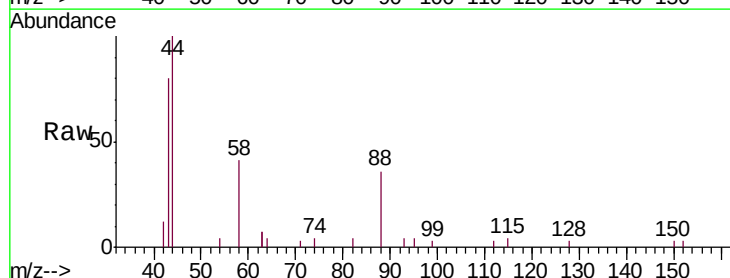
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



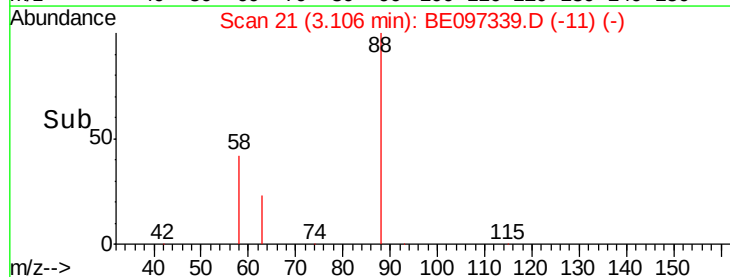
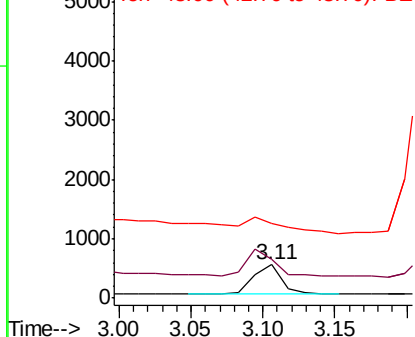
#2

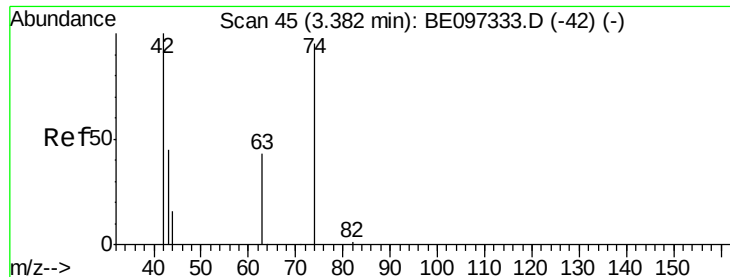
1,4-Dioxane
Concen: 0.422 ng
RT: 3.11 min Scan# 21
Delta R.T. 0.01 min
Lab File: BE097339.D
Acq: 20 Aug 2018 19:29

Tgt Ion: 88 Resp: 649
Ion Ratio Lower Upper
88 100
58 89.2 63.2 94.8
43 69.0 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: 0.597 ng

RT: 3.38 min Scan# 45

Delta R.T. 0.00 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

Instrument :

BNA_E

ClientSampleId :

PB112113BSD

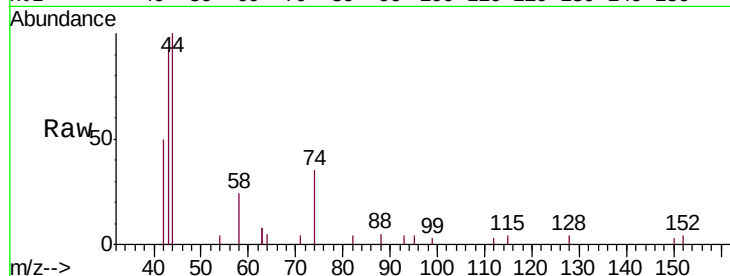
Tgt Ion: 42 Resp: 853

Ion Ratio Lower Upper

42 100

74 99.5 96.0 144.0

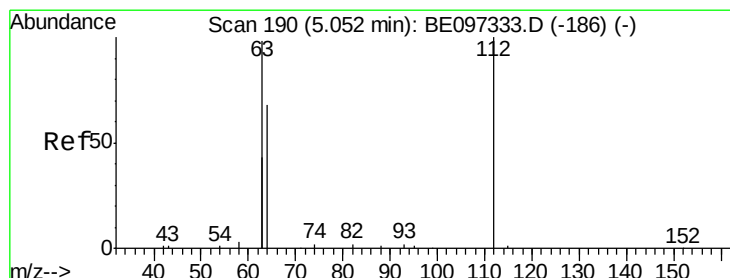
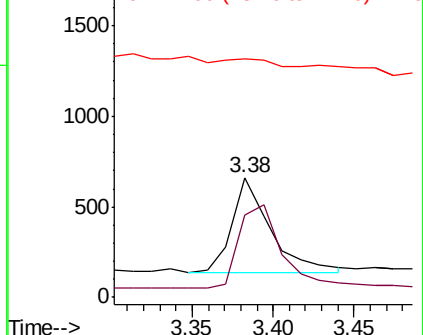
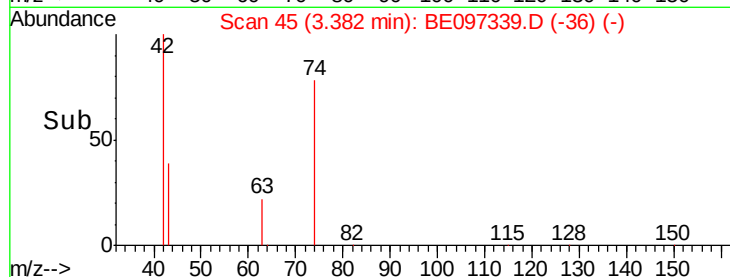
44 0.0 12.0 18.0#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 0.534 ng

RT: 5.06 min Scan# 191

Delta R.T. 0.01 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

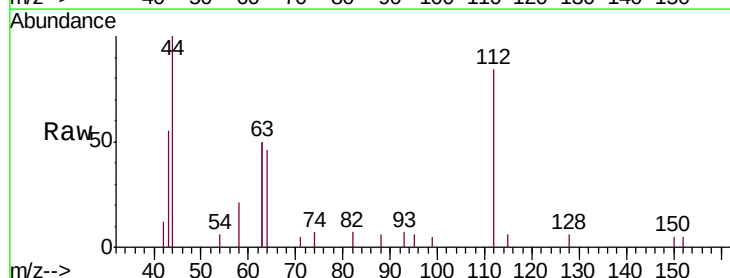
Tgt Ion: 112 Resp: 1265

Ion Ratio Lower Upper

112 100

64 67.7 60.1 90.1

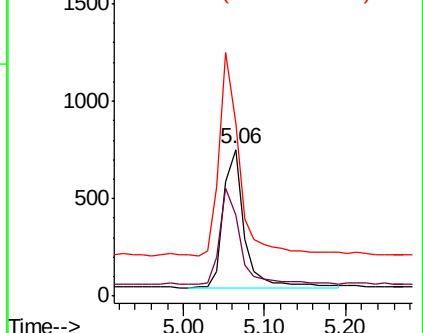
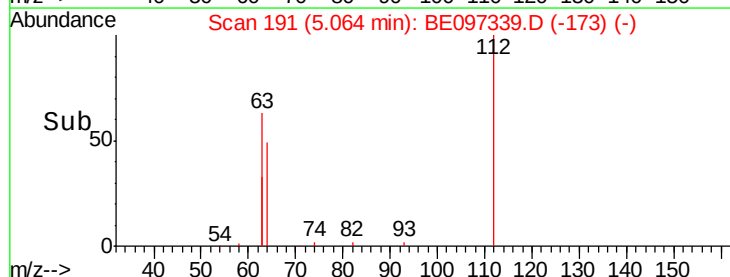
63 143.2 116.8 175.2

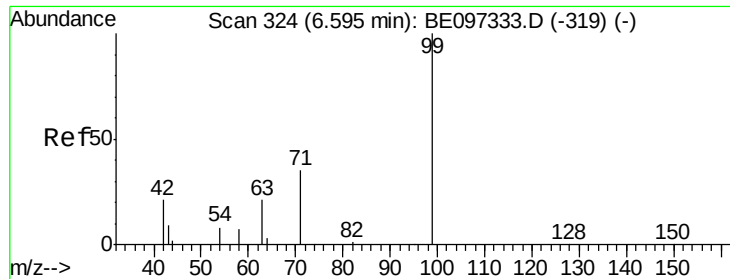


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.418 ng

RT: 6.60 min Scan# 324

Delta R.T. 0.00 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

Instrument :

BNA_E

ClientSampleId :

PB112113BSD

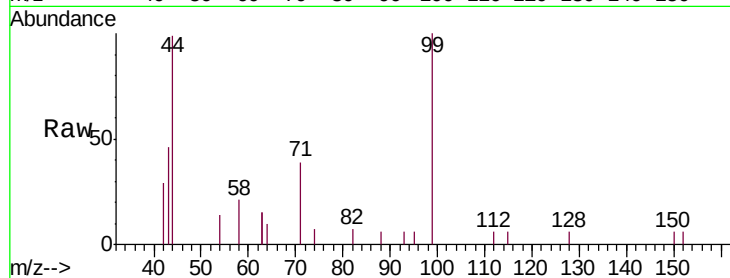
Tgt Ion: 99 Resp: 1469

Ion Ratio Lower Upper

99 100

42 22.6 20.2 30.2

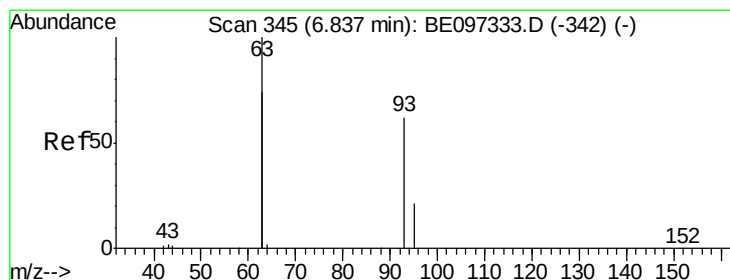
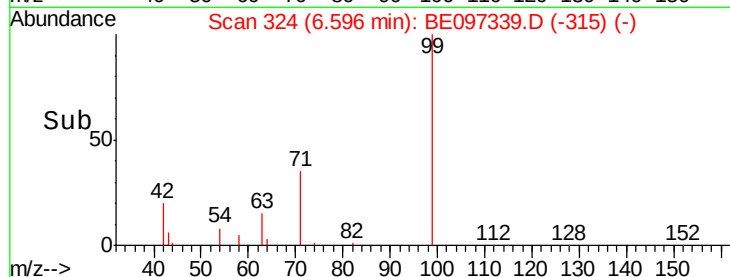
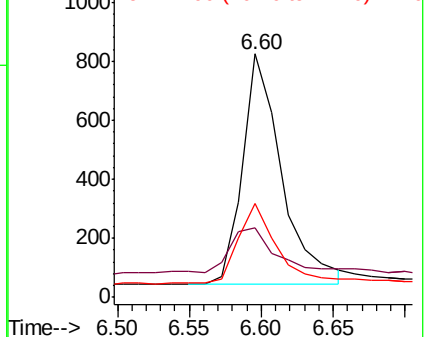
71 34.8 28.4 42.6



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: 0.419 ng

RT: 6.84 min Scan# 345

Delta R.T. 0.00 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

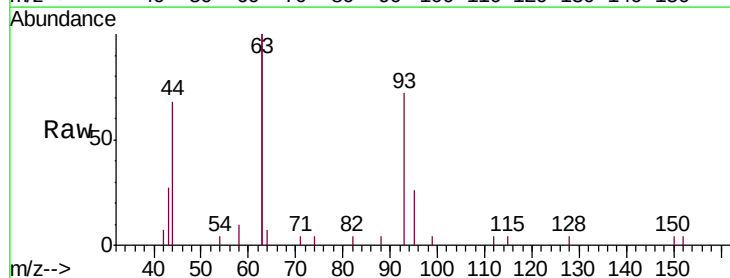
Tgt Ion: 93 Resp: 1464

Ion Ratio Lower Upper

93 100

63 338.6 275.3 412.9

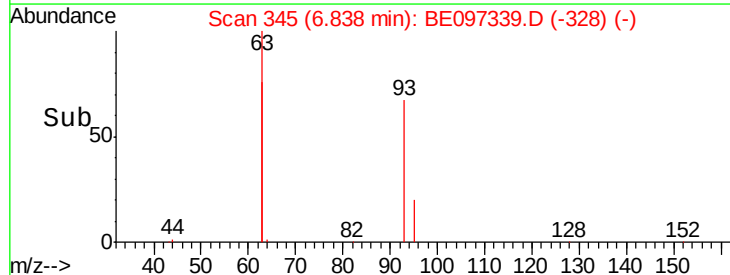
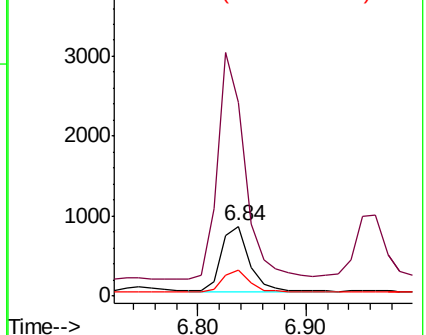
95 35.0 25.2 37.8

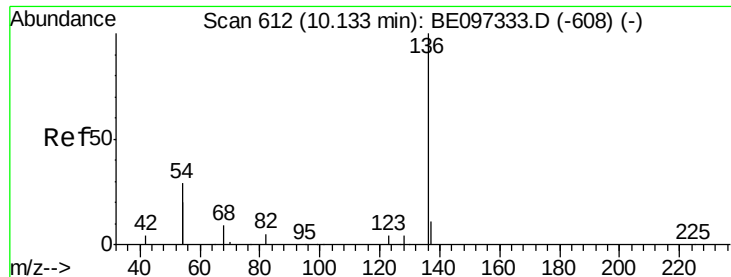


Abundance Ion 93.00 (92.70 to 93.70): BE0

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: 10.13 min Scan# 612

Delta R.T. -0.00 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

Instrument :

BNA_E

ClientSampleId :

PB112113BSD

Tgt Ion:136 Resp: 4261

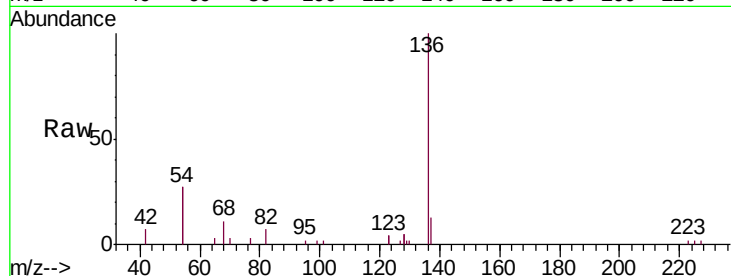
Ion Ratio Lower Upper

136 100

137 12.9 9.5 14.3

54 54.8 29.1 43.7#

68 10.6 6.2 9.2#



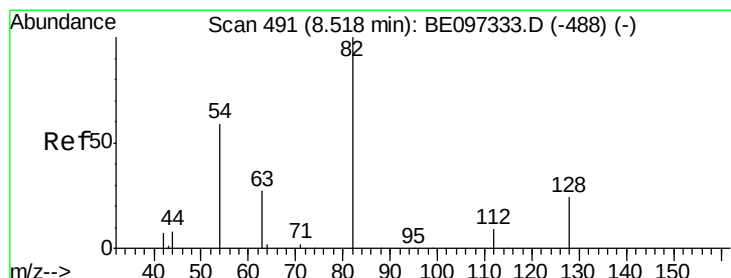
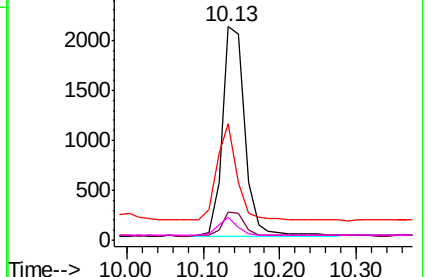
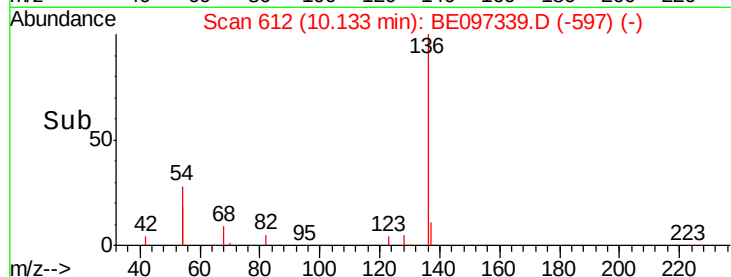
Abundance

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: 0.556 ng

RT: 8.52 min Scan# 491

Delta R.T. 0.00 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

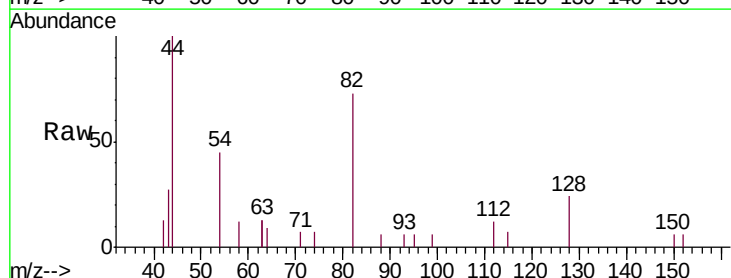
Tgt Ion: 82 Resp: 1014

Ion Ratio Lower Upper

82 100

128 32.1 24.0 36.0

54 60.9 40.0 60.0#

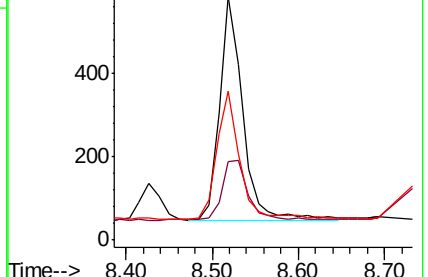
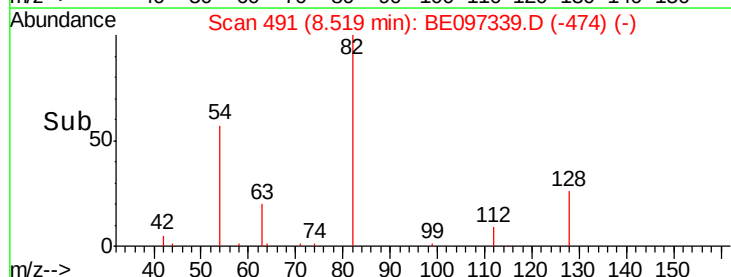


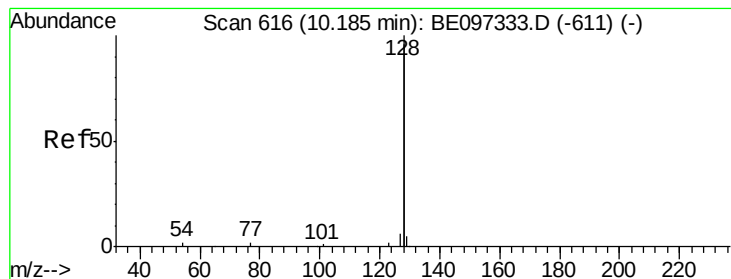
Abundance

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: 0.482 ng

RT: 10.18 min Scan# 616

Delta R.T. -0.00 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

Instrument :

BNA_E

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PB112113BSD

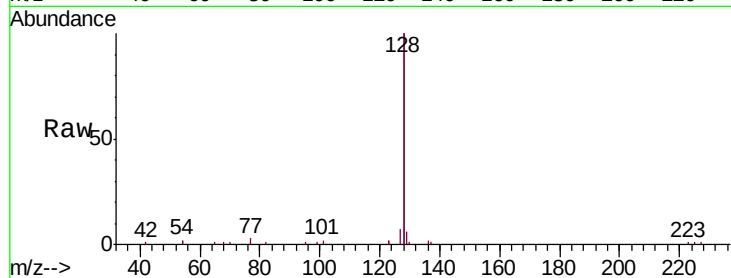
Tgt Ion:128 Resp: 18826

Ion Ratio Lower Upper

128 100

129 3.1 2.6 3.8

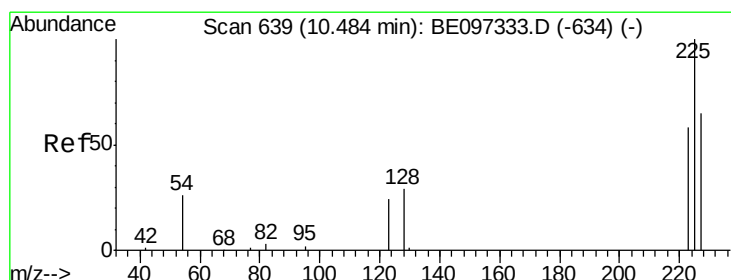
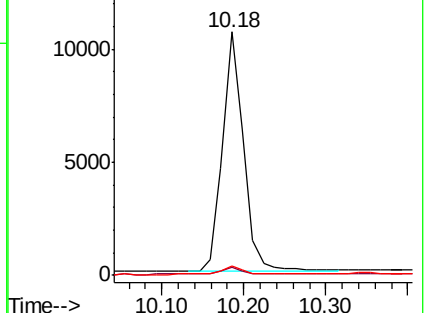
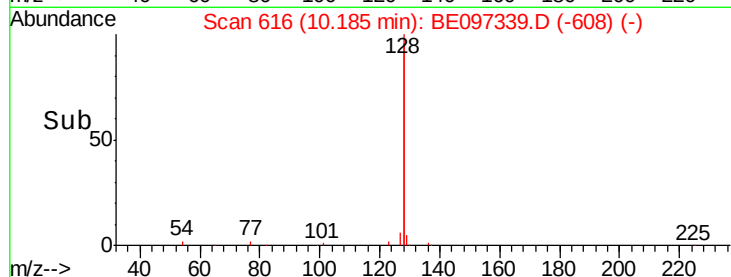
127 3.6 2.8 4.2



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: 0.452 ng

RT: 10.47 min Scan# 638

Delta R.T. -0.01 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

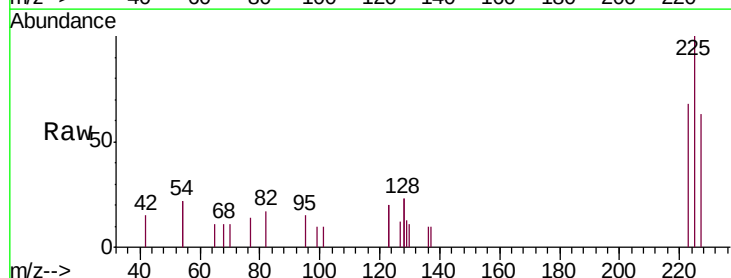
Tgt Ion:225 Resp: 776

Ion Ratio Lower Upper

225 100

223 63.0 53.0 79.6

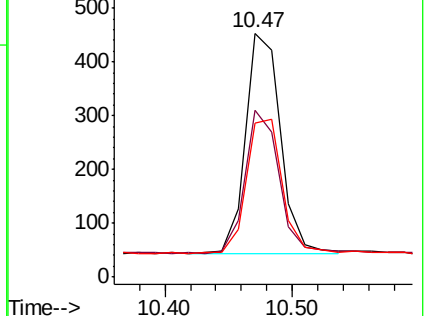
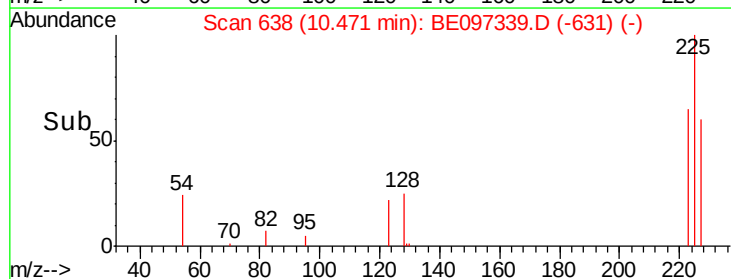
227 62.1 51.4 77.2

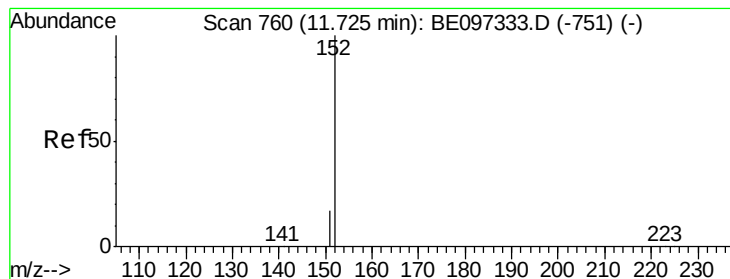


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.598 ng

RT: 11.72 min Scan# 760

Delta R.T. 0.00 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

Instrument :

BNA_E

ClientSampleId :

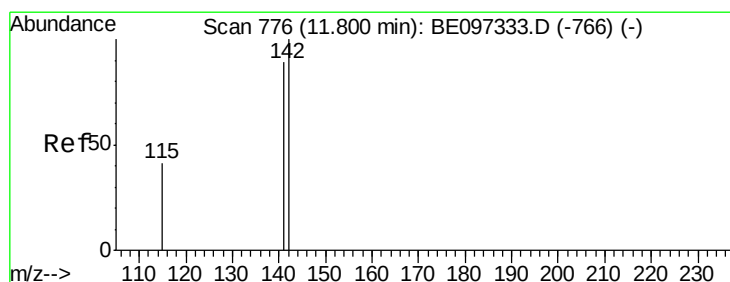
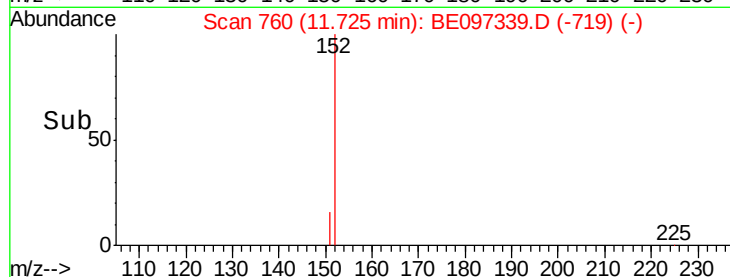
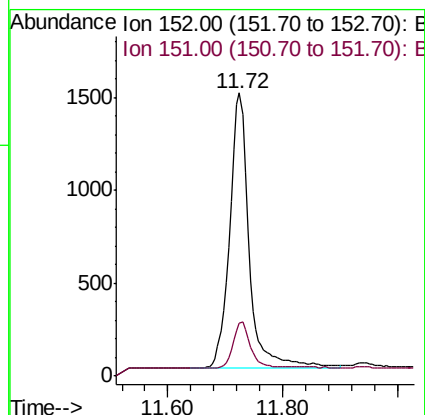
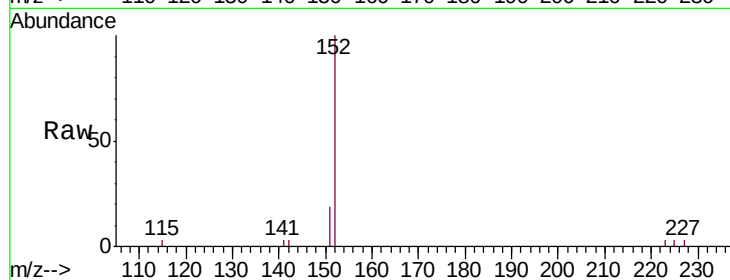
PB112113BSD

Tgt Ion:152 Resp: 3446

Ion Ratio Lower Upper

152 100

151 14.8 15.4 23.0#



#12

2-Methylnaphthalene

Concen: 0.475 ng

RT: 11.80 min Scan# 776

Delta R.T. 0.00 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

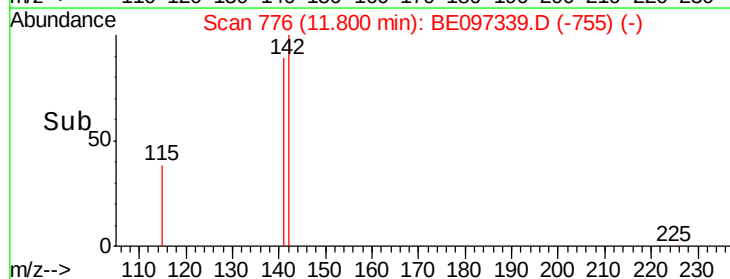
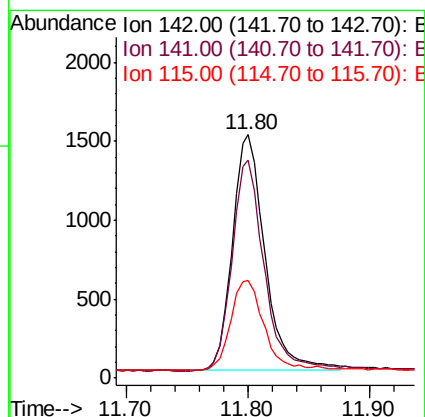
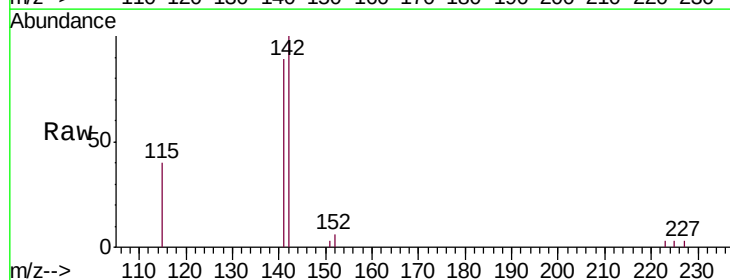
Tgt Ion:142 Resp: 2791

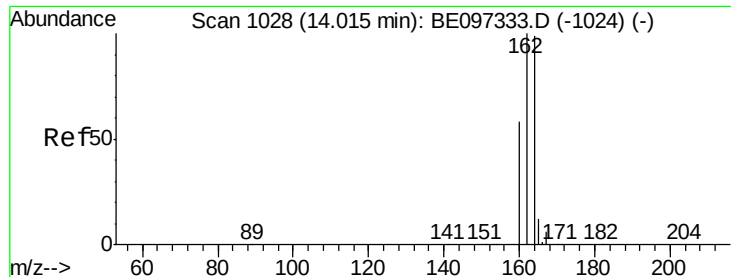
Ion Ratio Lower Upper

142 100

141 89.4 70.4 105.6

115 40.3 31.7 47.5

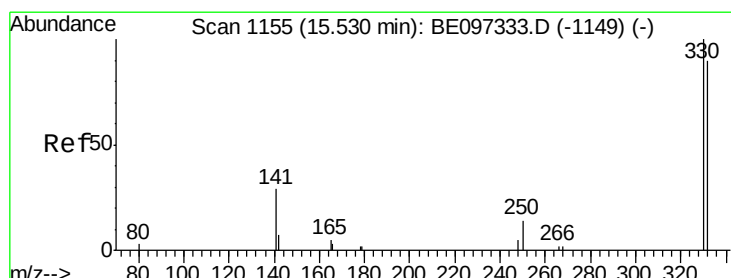
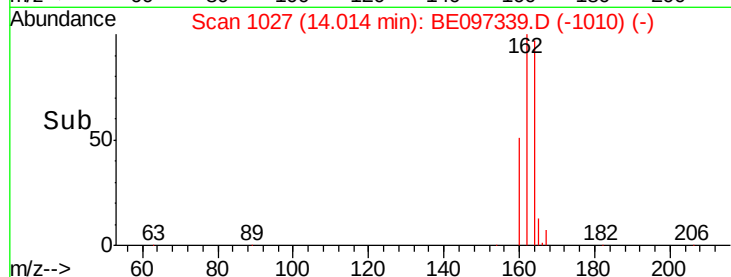
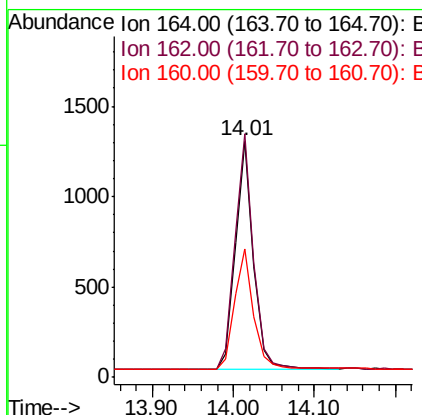
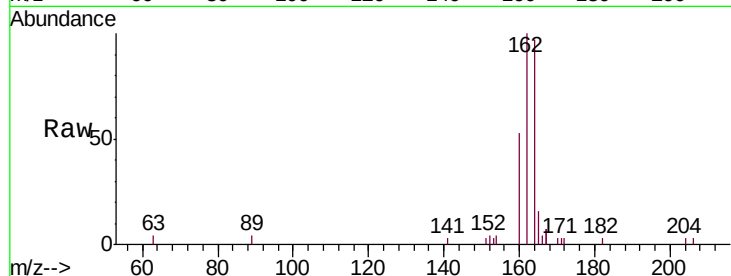




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.01 min Scan# 1027
 Delta R.T. -0.00 min
 Lab File: BE097339.D
 Acq: 20 Aug 2018 19:29

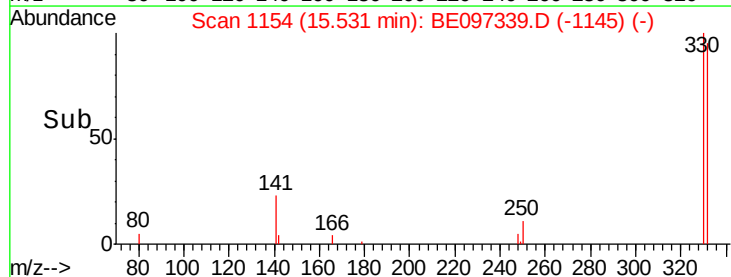
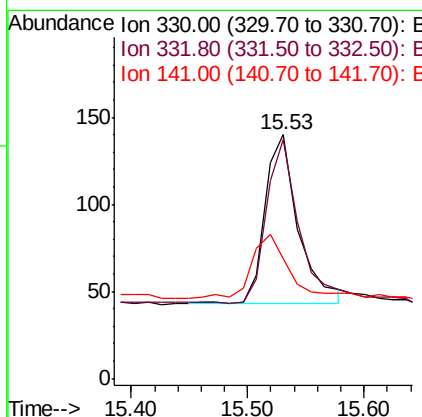
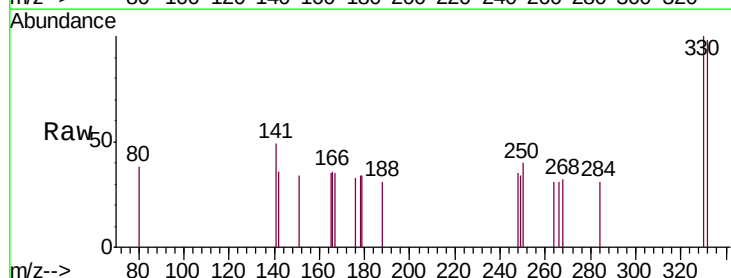
Instrument :
 BNA_E
 ClientSampleId :
 PB112113BSD

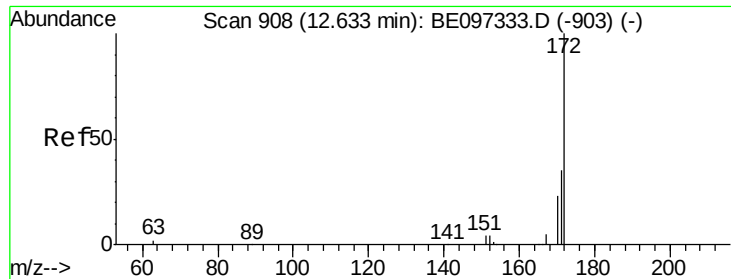
Tgt Ion:164 Resp: 1962
 Ion Ratio Lower Upper
 164 100
 162 102.9 83.1 124.7
 160 54.3 37.1 55.7



#14
 2,4,6-Tribromophenol
 Concen: 0.520 ng
 RT: 15.53 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: BE097339.D
 Acq: 20 Aug 2018 19:29

Tgt Ion:330 Resp: 194
 Ion Ratio Lower Upper
 330 100
 332 95.4 152.7 229.1#
 141 41.2 33.7 50.5

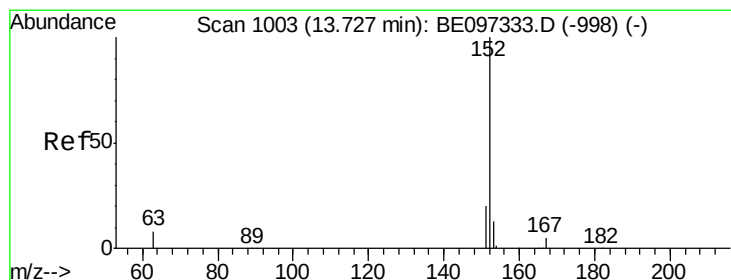
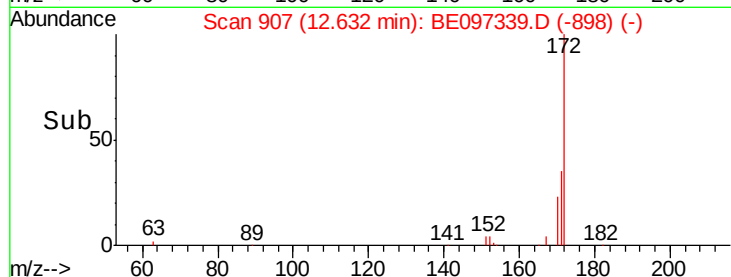
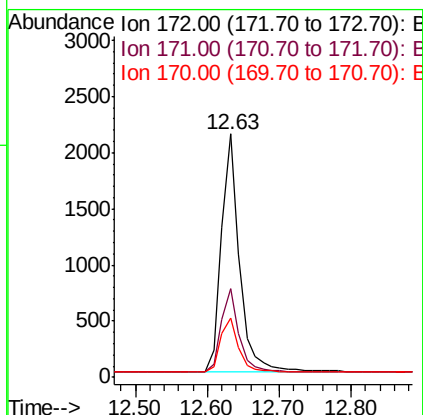
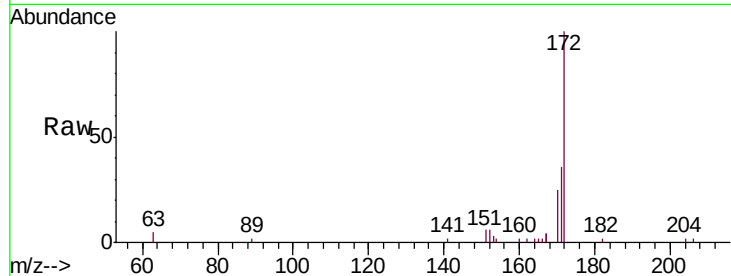




#15
2-Fluorobiphenyl
Concen: 0.466 ng
RT: 12.63 min Scan# 907
Delta R.T. -0.00 min
Lab File: BE097339.D
Acq: 20 Aug 2018 19:29

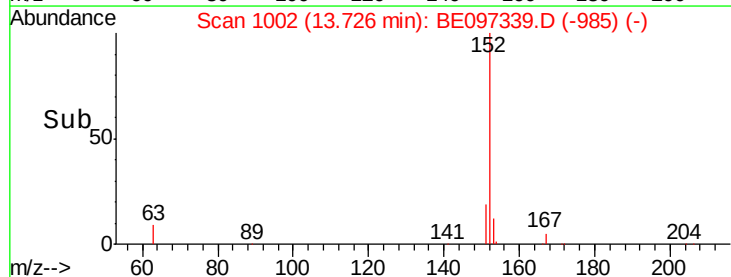
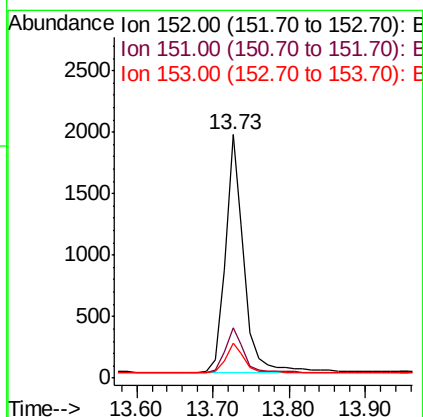
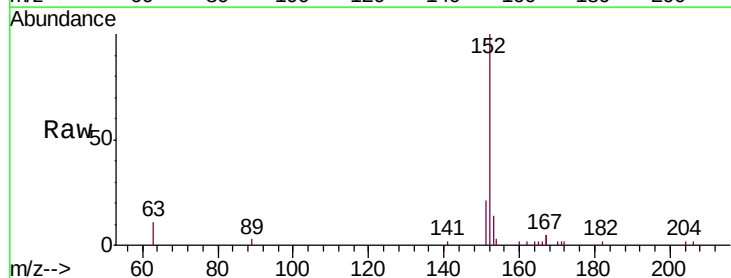
Instrument :
BNA_E
ClientSampleId :
PB112113BSD

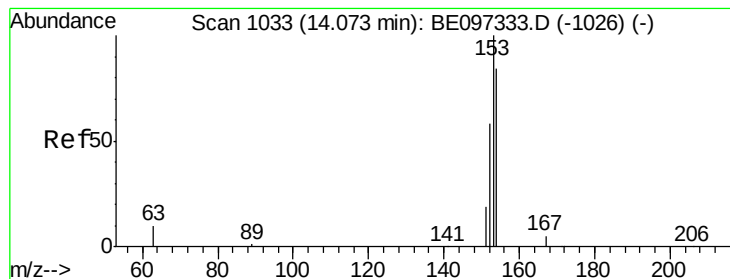
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.9	44.9
170	24.5	21.8	32.8



#16
Acenaphthylene
Concen: 0.442 ng
RT: 13.73 min Scan# 1002
Delta R.T. -0.00 min
Lab File: BE097339.D
Acq: 20 Aug 2018 19:29

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.0	15.7	23.5
153	12.6	10.5	15.7





#17

Acenaphthene

Concen: 0.462 ng

RT: 14.07 min Scan# 1032

Delta R.T. -0.00 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

Instrument :

BNA_E

ClientSampleId :

PB112113BSD

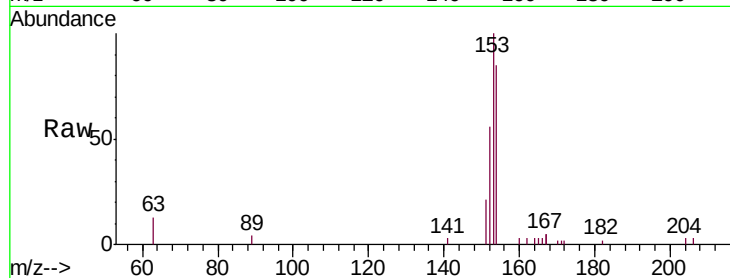
Tgt Ion:154 Resp: 2440

Ion Ratio Lower Upper

154 100

153 113.5 89.2 133.8

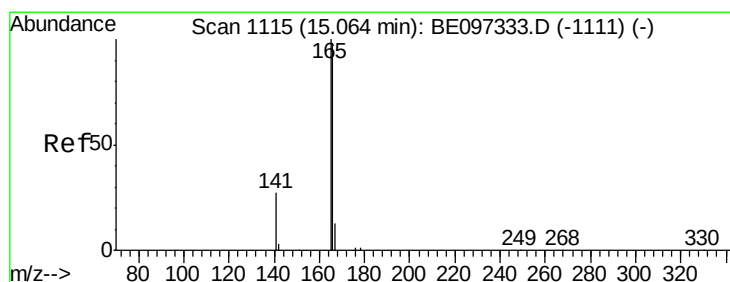
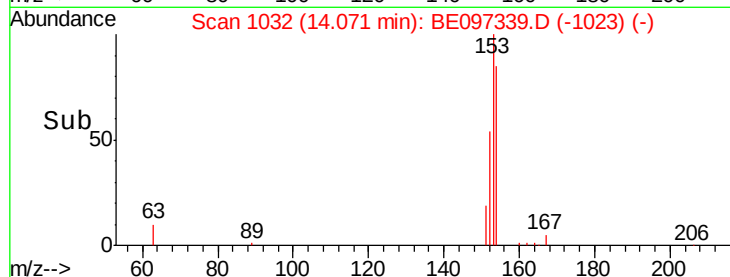
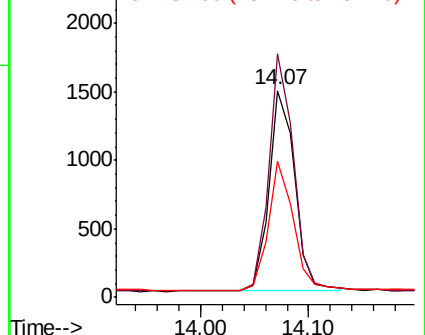
152 62.0 42.0 63.0



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: 0.513 ng

RT: 15.06 min Scan# 1114

Delta R.T. 0.00 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

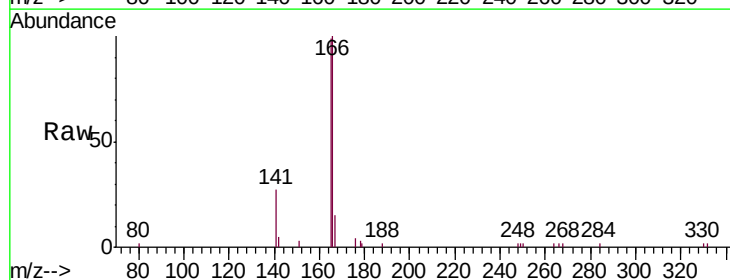
Tgt Ion:166 Resp: 3308

Ion Ratio Lower Upper

166 100

165 97.9 77.8 116.6

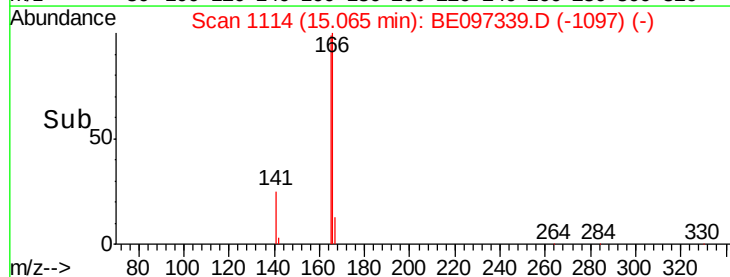
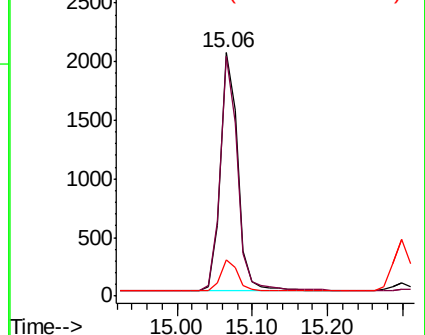
167 13.2 42.4 63.6#

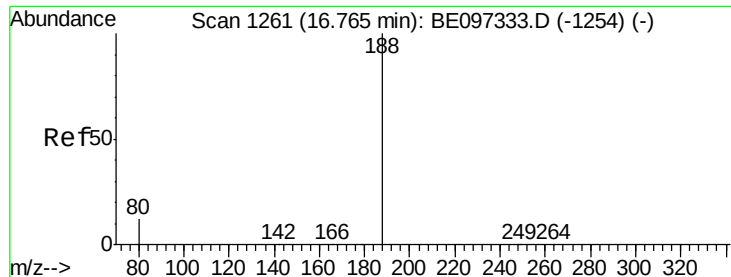


Abundance Ion 166.00 (165.70 to 166.70): E

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# 1260

Delta R.T. 0.00 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

Instrument :

BNA_E

ClientSampleId :

PB112113BSD

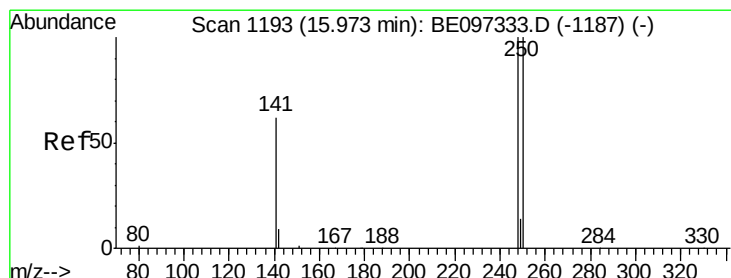
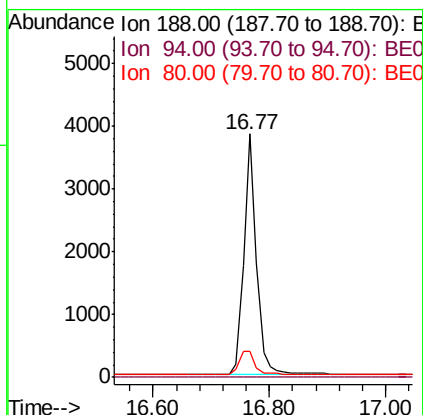
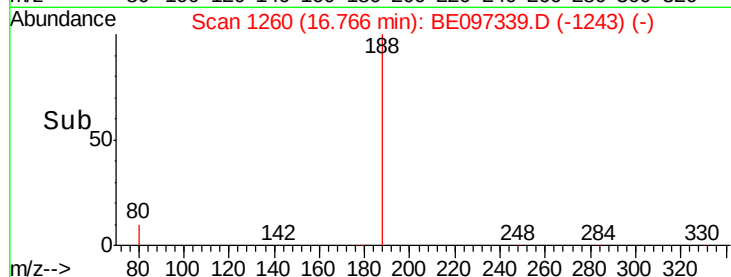
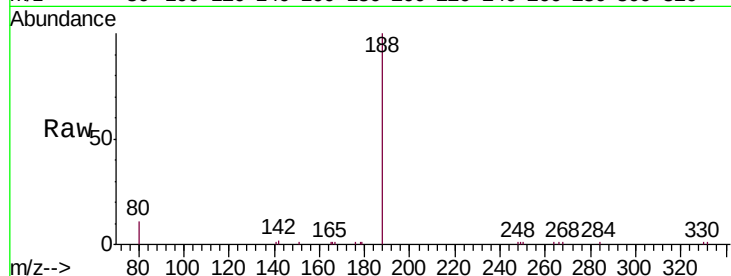
Tgt Ion:188 Resp: 5783

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

80 10.8 3.6 5.4#



#20

4-Bromophenyl-phenylether

Concen: 0.411 ng

RT: 15.97 min Scan# 1192

Delta R.T. 0.00 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

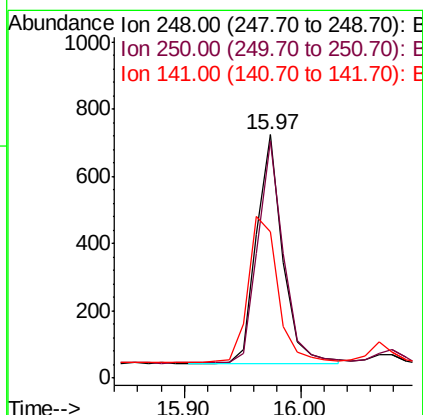
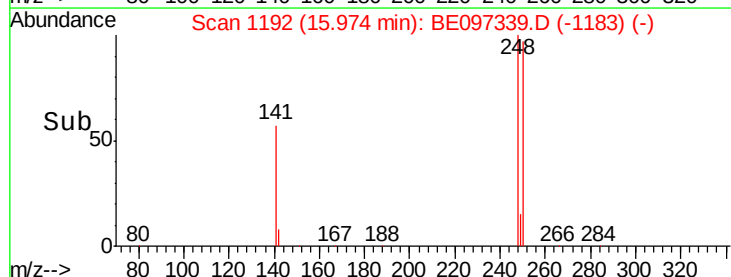
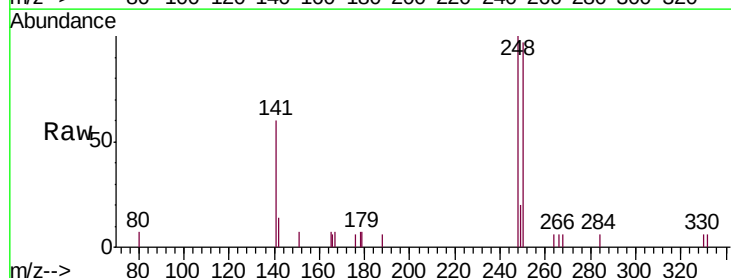
Tgt Ion:248 Resp: 1072

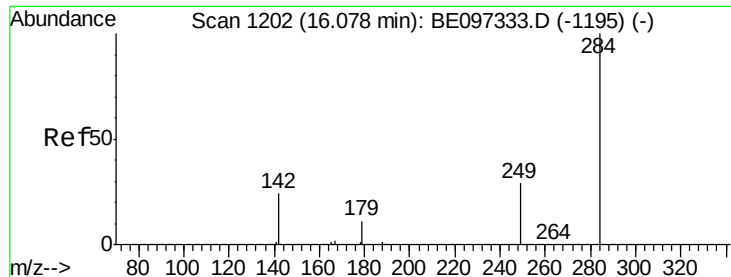
Ion Ratio Lower Upper

248 100

250 97.2 62.7 94.1#

141 60.1 48.2 72.2

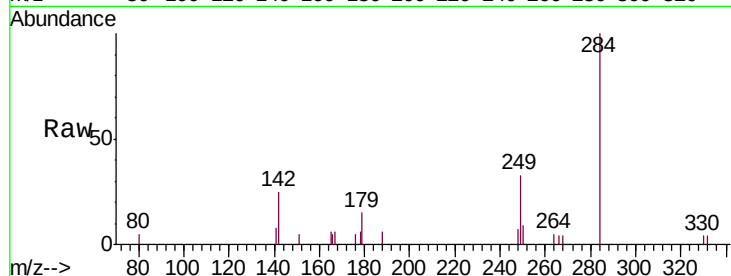




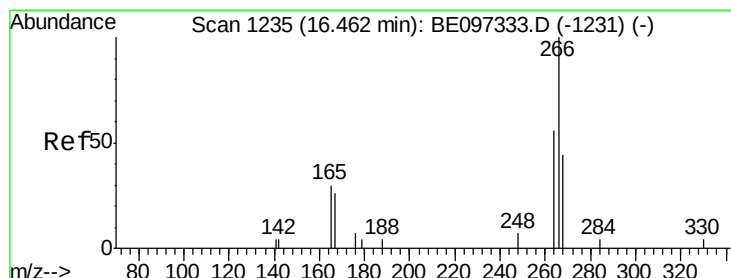
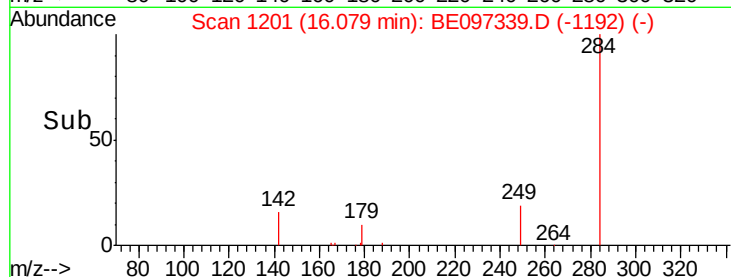
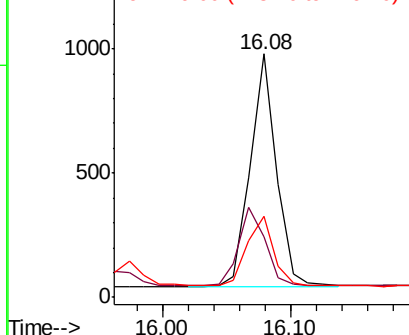
#21
Hexachlorobenzene
Concen: 0.381 ng
RT: 16.08 min Scan# 1201
Delta R.T. 0.00 min
Lab File: BE097339.D
Acq: 20 Aug 2018 19:29

Instrument :
BNA_E
ClientSampleId :
PB112113BSD

Tgt Ion: 284 Resp: 1334
Ion Ratio Lower Upper
284 100
142 34.1 22.1 33.1#
249 30.1 34.8 52.2#

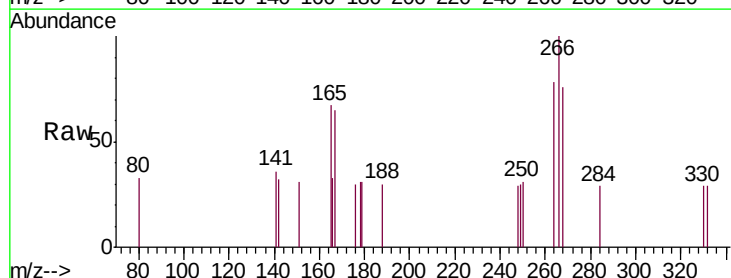


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

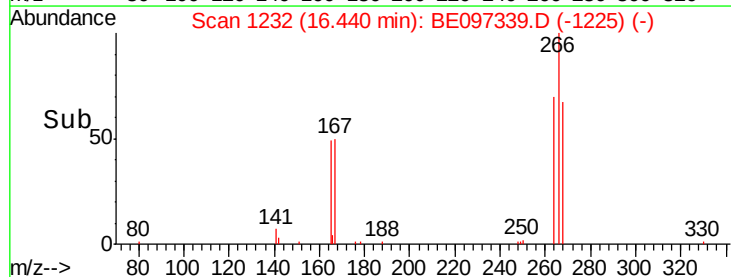
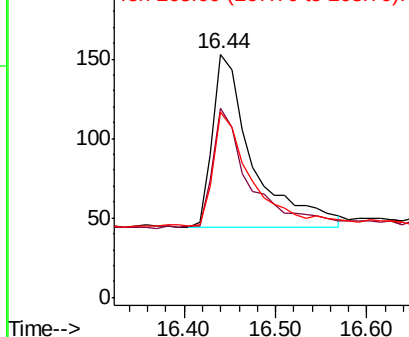


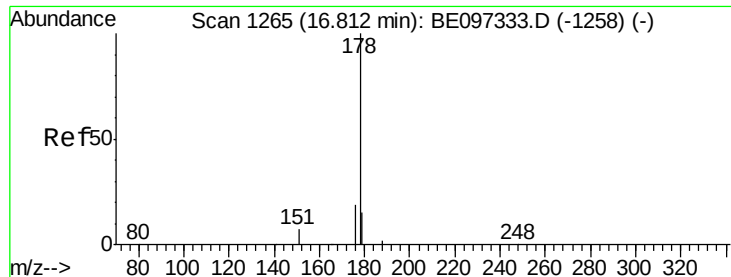
#22
Pentachlorophenol
Concen: 1.024 ng
RT: 16.44 min Scan# 1232
Delta R.T. -0.02 min
Lab File: BE097339.D
Acq: 20 Aug 2018 19:29

Tgt Ion: 266 Resp: 334
Ion Ratio Lower Upper
266 100
264 77.8 72.5 108.7
268 76.5 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

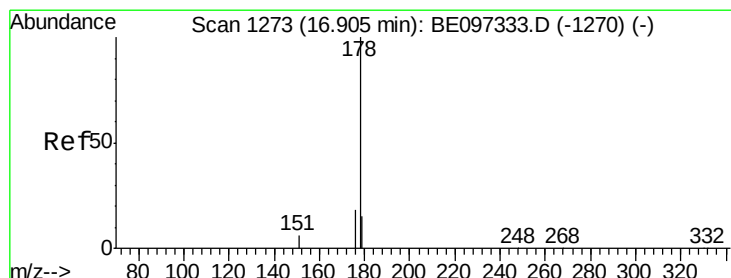
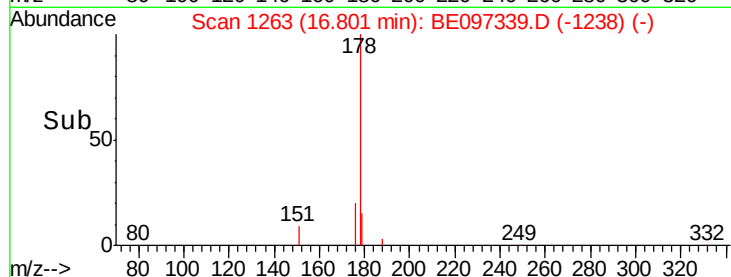
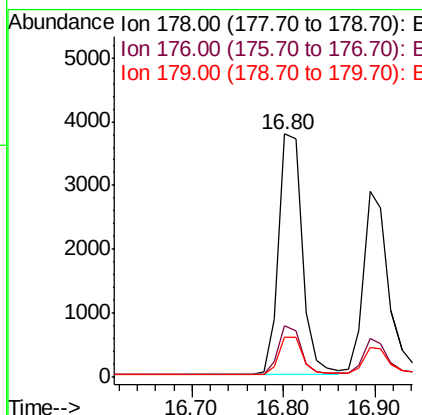
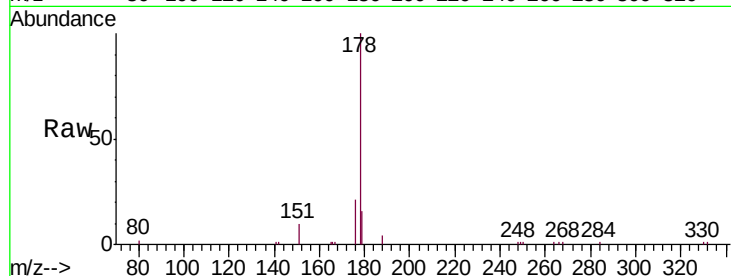




#23
Phenanthrene
Concen: 0.480 ng
RT: 16.80 min Scan# 1263
Delta R.T. -0.01 min
Lab File: BE097339.D
Acq: 20 Aug 2018 19:29

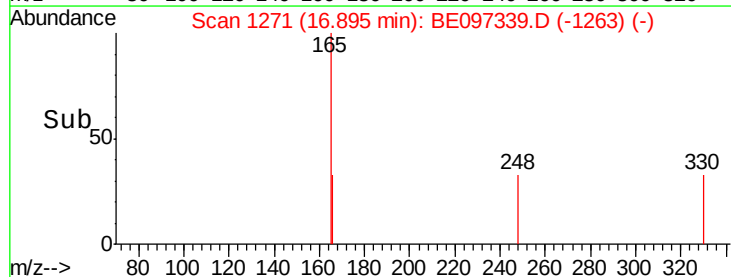
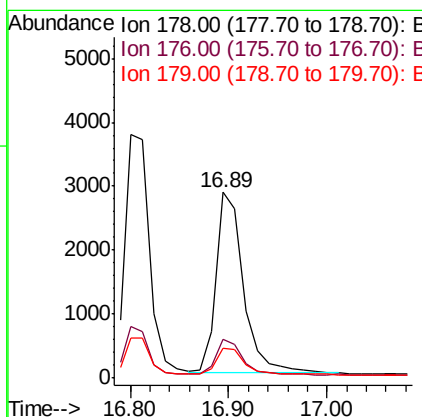
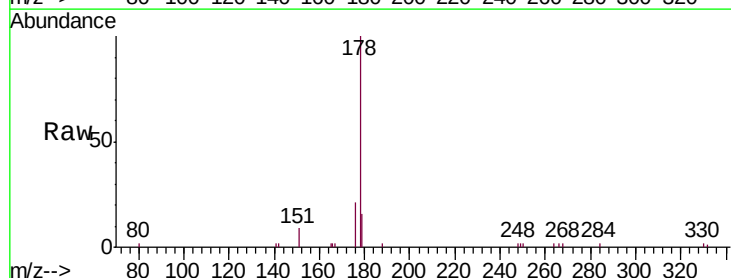
Instrument :
BNA_E
ClientSampleId :
PB112113BSD

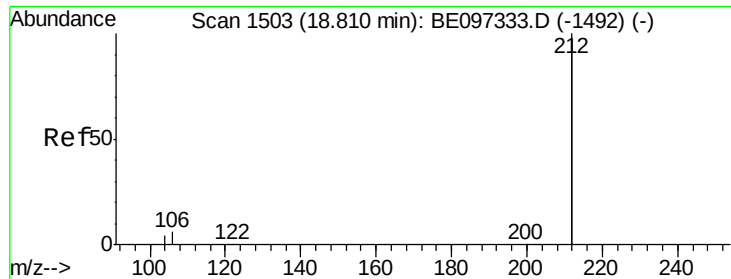
Tgt Ion:178 Resp: 6775
Ion Ratio Lower Upper
178 100
176 19.5 15.1 22.7
179 15.6 11.8 17.6



#24
Anthracene
Concen: 0.523 ng
RT: 16.89 min Scan# 1271
Delta R.T. -0.01 min
Lab File: BE097339.D
Acq: 20 Aug 2018 19:29

Tgt Ion:178 Resp: 5457
Ion Ratio Lower Upper
178 100
176 18.4 12.8 19.2
179 15.2 13.0 19.6





#25

Fluoranthene-d10

Concen: 0.556 ng

RT: 18.81 min Scan# 1501

Delta R.T. -0.00 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

Instrument :

BNA_E

ClientSampleId :

PB112113BSD

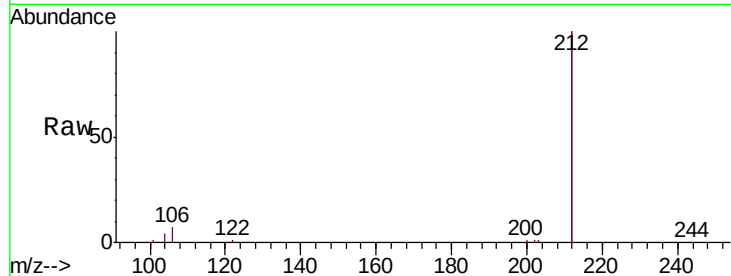
Tgt Ion:212 Resp: 28700

Ion Ratio Lower Upper

212 100

106 3.1 2.8 4.2

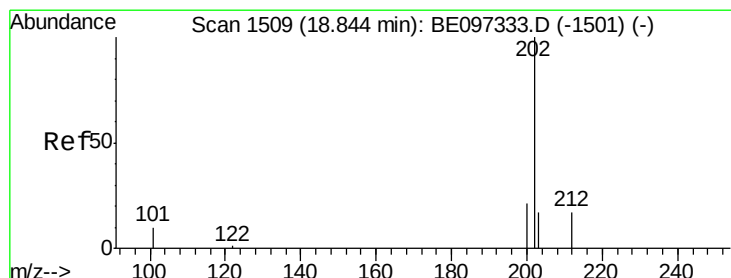
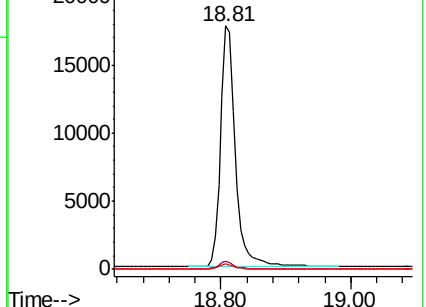
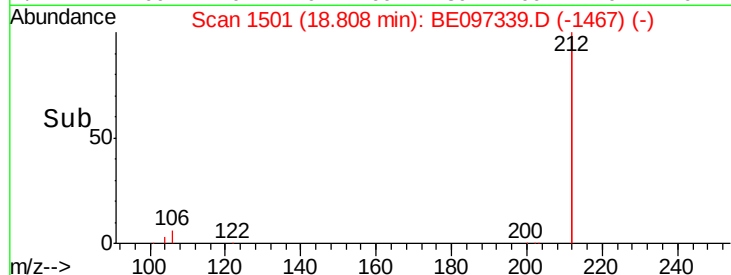
104 1.7 1.6 2.4



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: 0.570 ng

RT: 18.84 min Scan# 1506

Delta R.T. -0.01 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

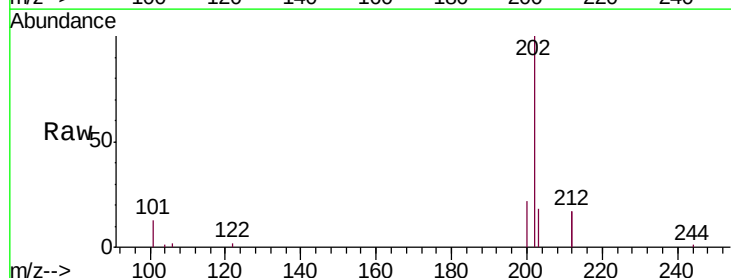
Tgt Ion:202 Resp: 7740

Ion Ratio Lower Upper

202 100

101 10.7 9.8 14.8

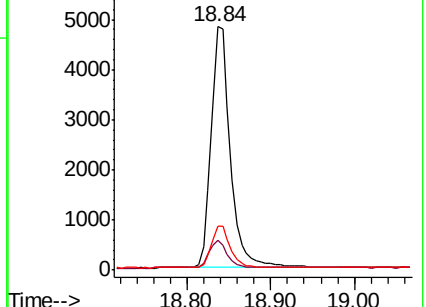
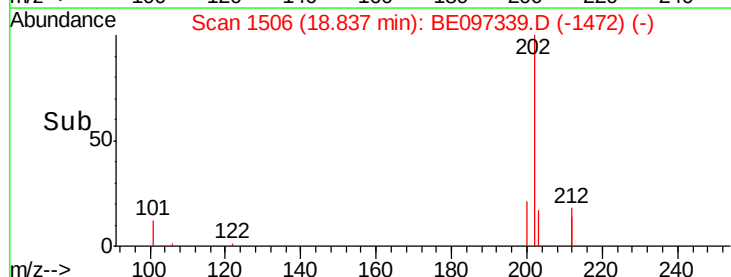
203 17.2 13.7 20.5

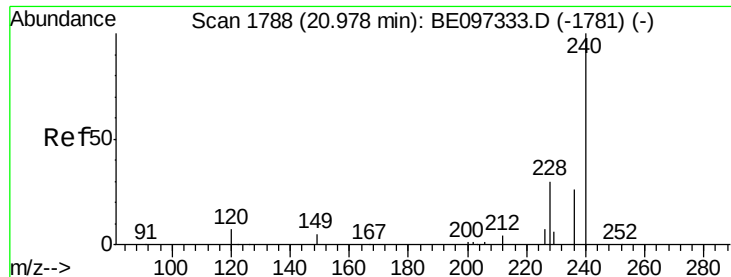


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

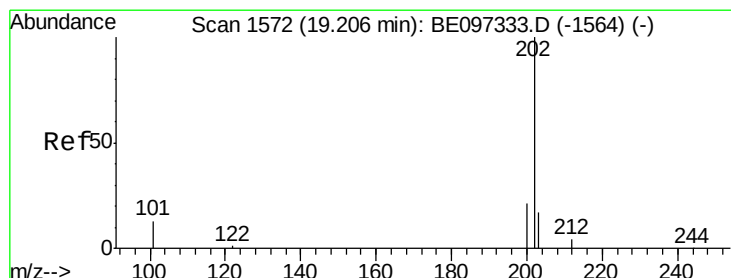
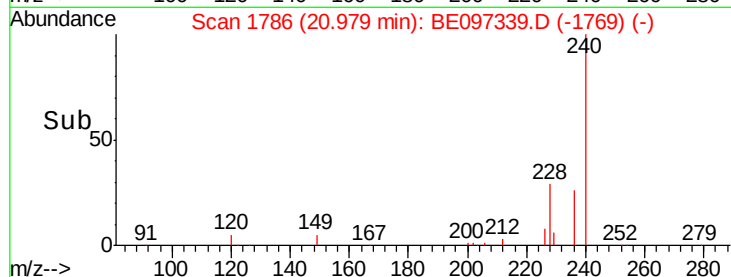
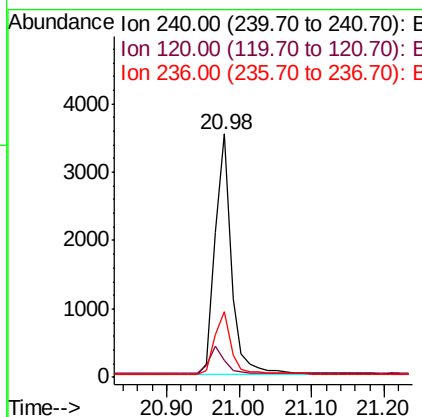
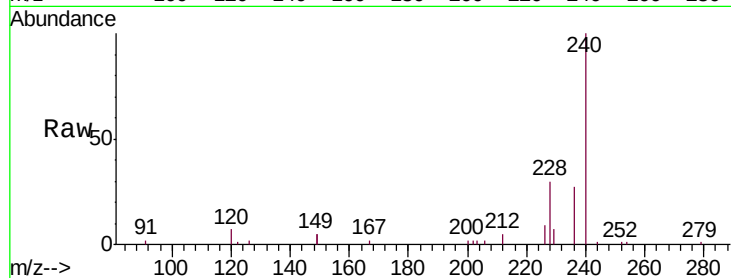




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 20.98 min Scan# 1786
 Delta R.T. 0.00 min
 Lab File: BE097339.D
 Acq: 20 Aug 2018 19:29

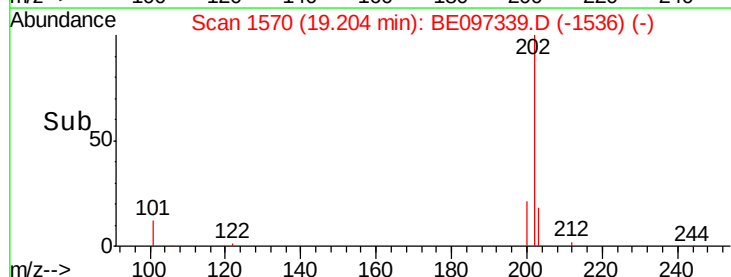
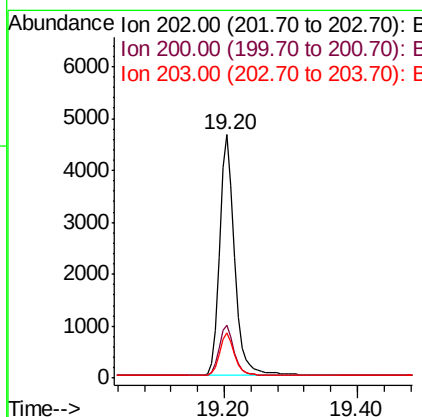
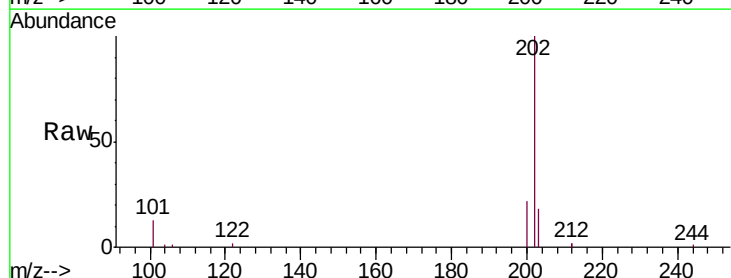
Instrument :
 BNA_E
 ClientSampleId :
 PB112113BSD

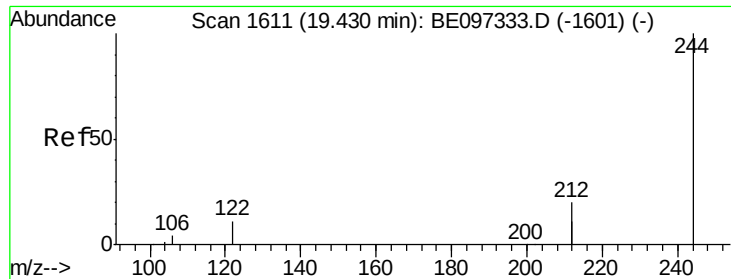
Tgt Ion:240 Resp: 5526
 Ion Ratio Lower Upper
 240 100
 120 7.0 5.5 8.3
 236 27.0 20.7 31.1



#28
 Pyrene
 Concen: 0.489 ng
 RT: 19.20 min Scan# 1570
 Delta R.T. -0.00 min
 Lab File: BE097339.D
 Acq: 20 Aug 2018 19:29

Tgt Ion:202 Resp: 7260
 Ion Ratio Lower Upper
 202 100
 200 21.2 16.6 25.0
 203 17.9 13.8 20.8





#29

Terphenyl-d14

Concen: 0.419 ng

RT: 19.43 min Scan# 1609

Delta R.T. -0.00 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

Instrument :

BNA_E

ClientSampleId :

PB112113BSD

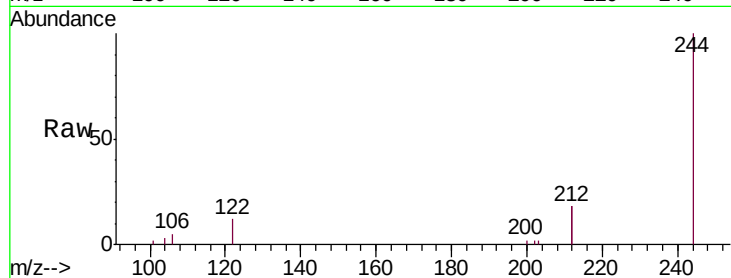
Tgt Ion:244 Resp: 4630

Ion Ratio Lower Upper

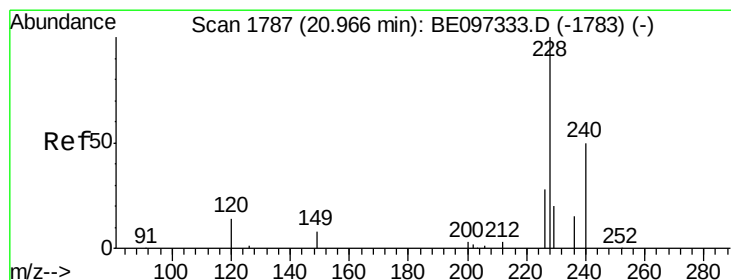
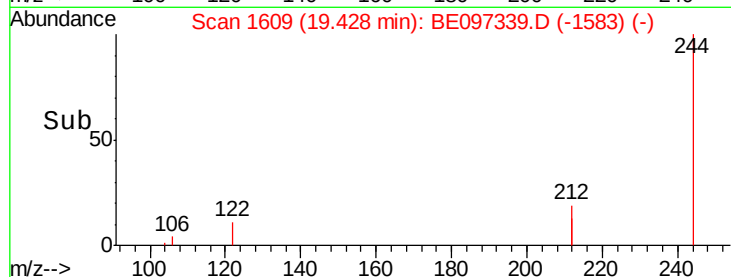
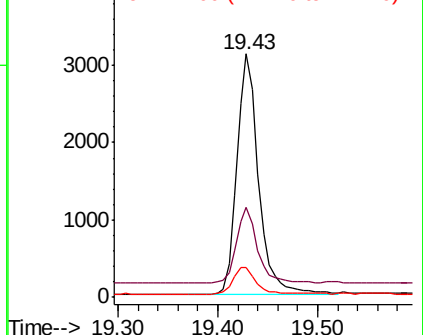
244 100

212 36.8 25.4 38.0

122 12.4 8.1 12.1#



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.511 ng

RT: 20.97 min Scan# 1785

Delta R.T. 0.00 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

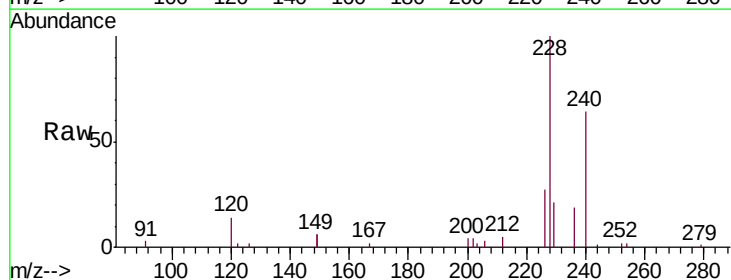
Tgt Ion:228 Resp: 6074

Ion Ratio Lower Upper

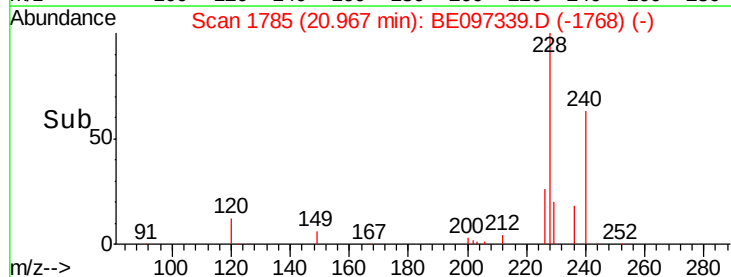
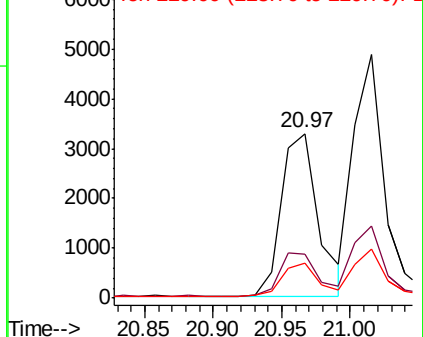
228 100

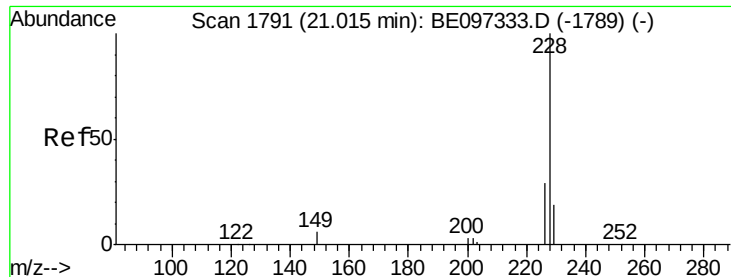
226 26.7 24.0 36.0

229 21.0 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.477 ng

RT: 21.02 min Scan# 1789

Delta R.T. 0.00 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

Instrument :

BNA_E

ClientSampleId :

PB112113BSD

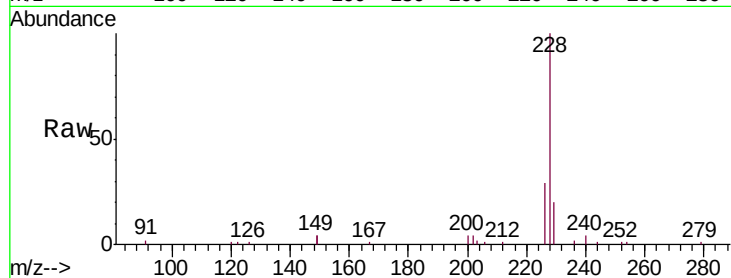
Tgt Ion:228 Resp: 7421

Ion Ratio Lower Upper

228 100

226 29.4 24.0 36.0

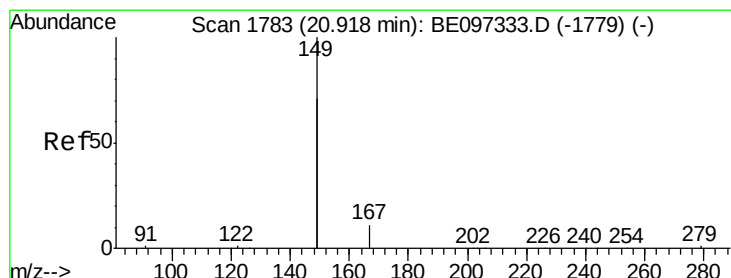
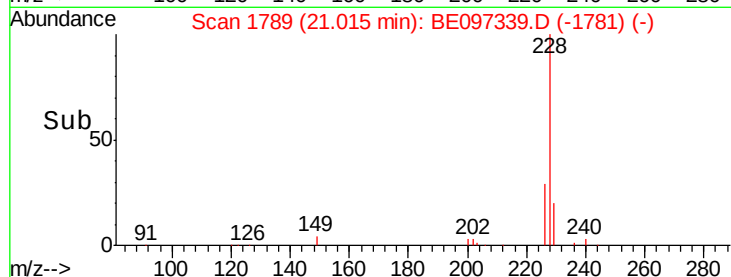
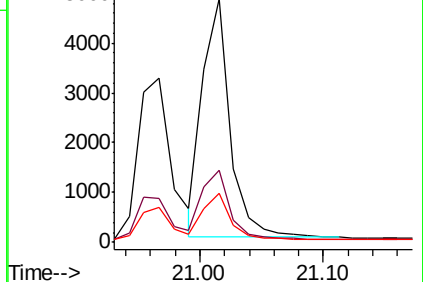
229 20.4 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.518 ng

RT: 20.92 min Scan# 1781

Delta R.T. 0.00 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

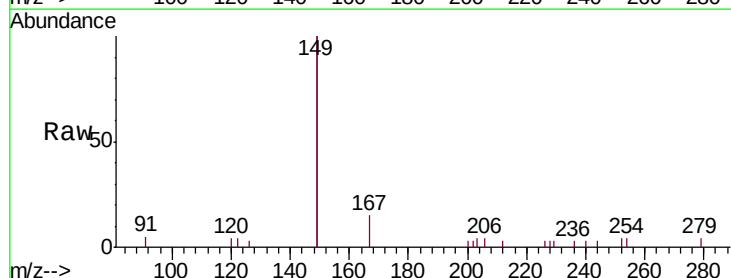
Tgt Ion:149 Resp: 3436

Ion Ratio Lower Upper

149 100

167 6.1 5.4 8.0

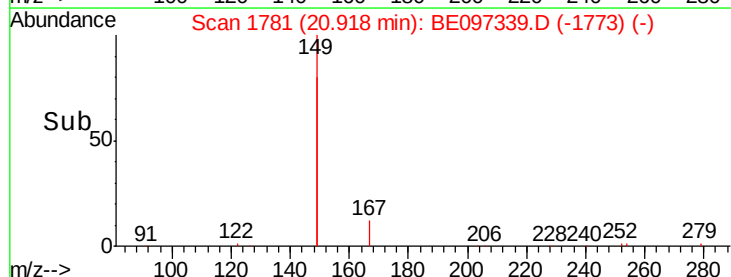
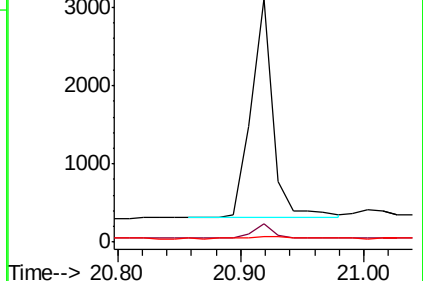
279 1.1 0.7 1.1

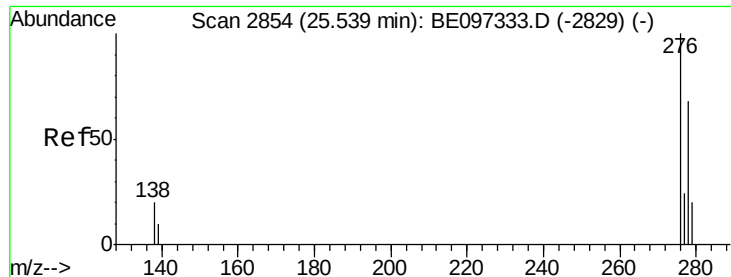


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.533 ng

RT: 25.53 min Scan# 2850

Delta R.T. -0.01 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

Instrument :

BNA_E

ClientSampleId :

PB112113BSD

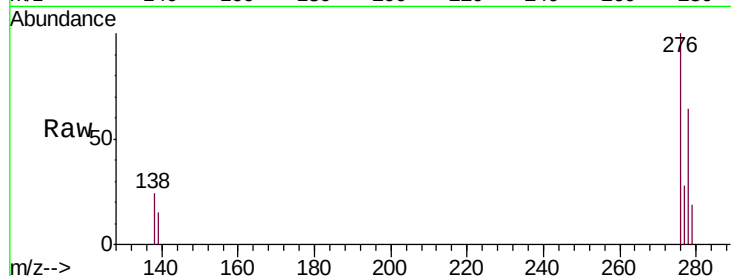
Tgt Ion:276 Resp: 5277

Ion Ratio Lower Upper

276 100

138 20.0 22.5 33.7#

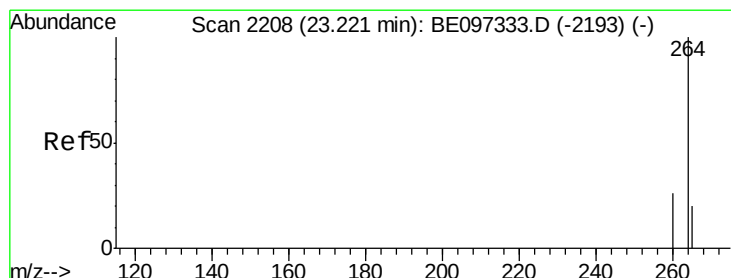
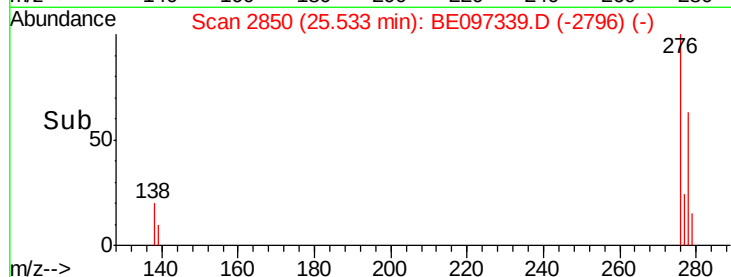
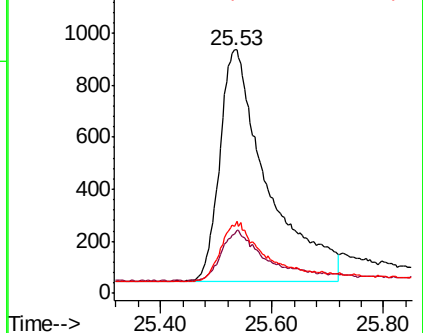
277 21.3 19.9 29.9



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# 2206

Delta R.T. 0.00 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

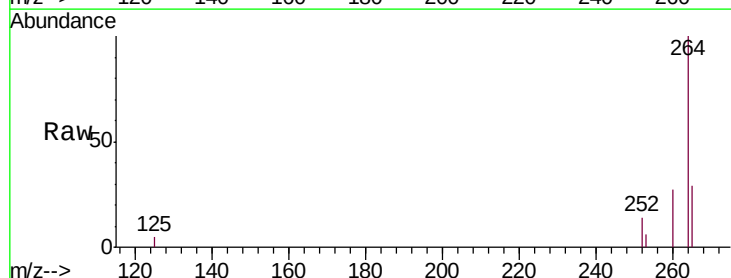
Tgt Ion:264 Resp: 4216

Ion Ratio Lower Upper

264 100

260 26.8 20.5 30.7

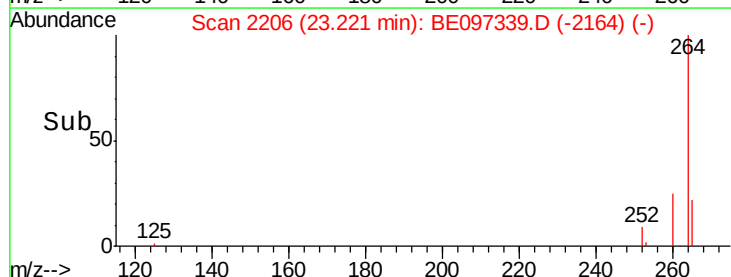
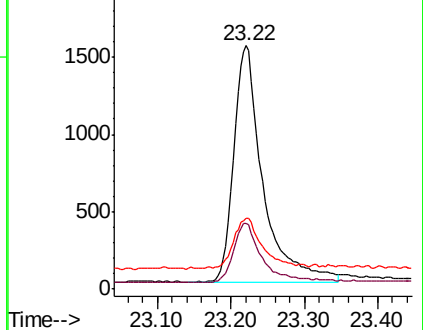
265 29.3 22.8 34.2

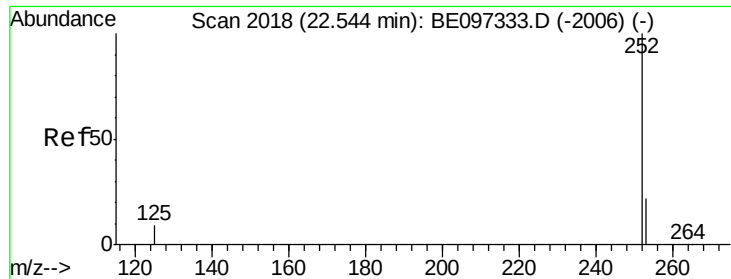


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.490 ng

RT: 22.54 min Scan# 2016

Delta R.T. 0.00 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

Instrument :

BNA_E

ClientSampleId :

PB112113BSD

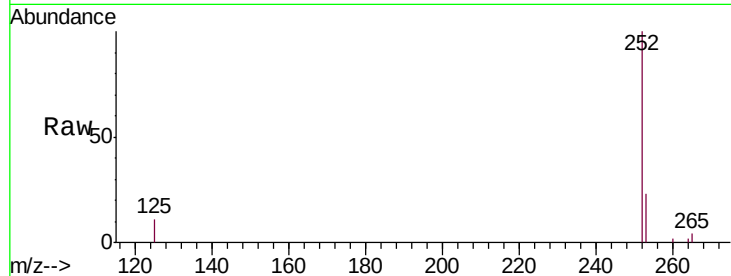
Tgt Ion:252 Resp: 5447

Ion Ratio Lower Upper

252 100

253 23.0 20.0 30.0

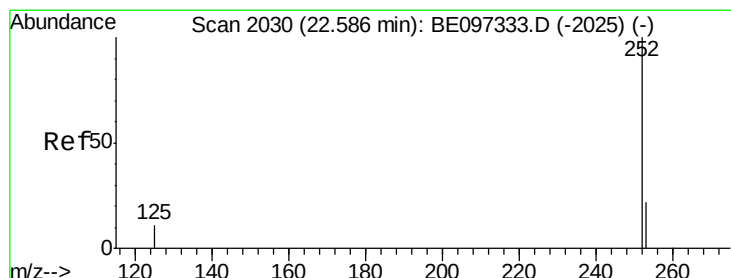
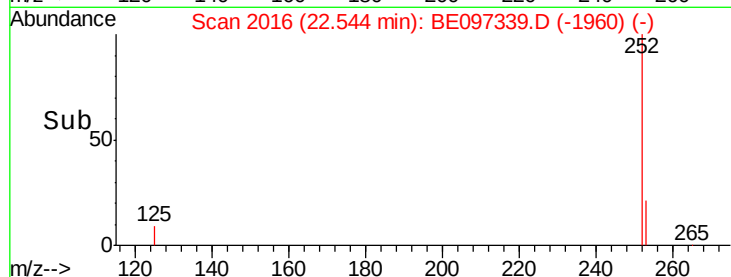
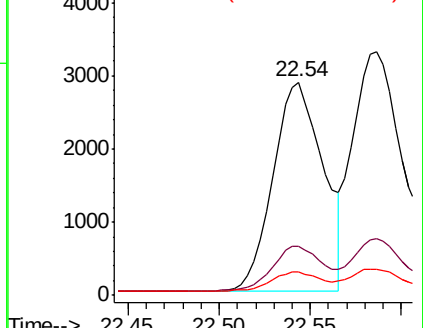
125 10.7 16.0 24.0#



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: 0.480 ng

RT: 22.59 min Scan# 2028

Delta R.T. 0.00 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

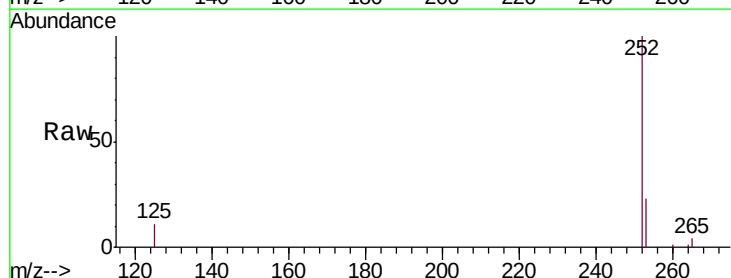
Tgt Ion:252 Resp: 7483

Ion Ratio Lower Upper

252 100

253 23.3 16.0 24.0

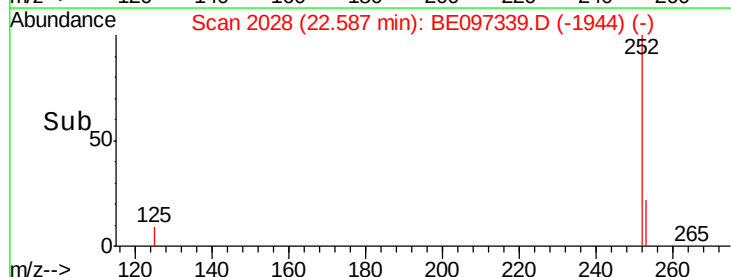
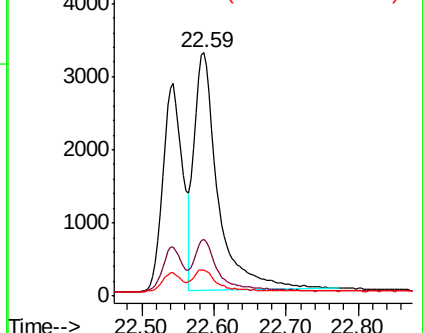
125 10.9 8.0 12.0

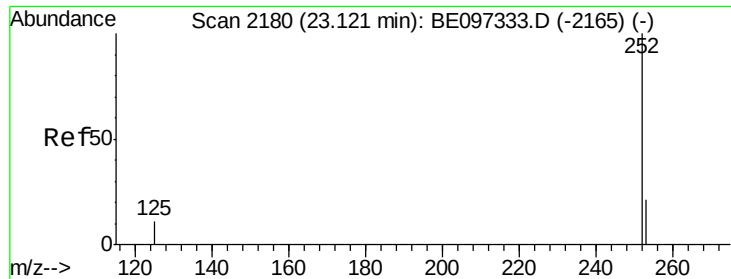


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.475 ng

RT: 23.12 min Scan# 2178

Delta R.T. 0.00 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

Instrument :

BNA_E

ClientSampleId :

PB112113BSD

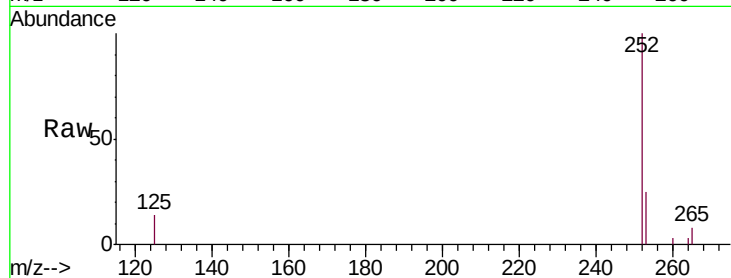
Tgt Ion: 252 Resp: 4804

Ion Ratio Lower Upper

252 100

253 24.8 16.0 24.0#

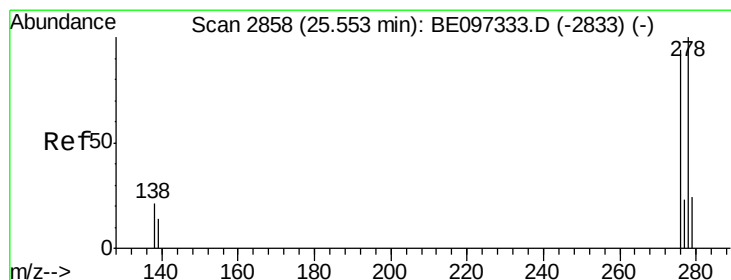
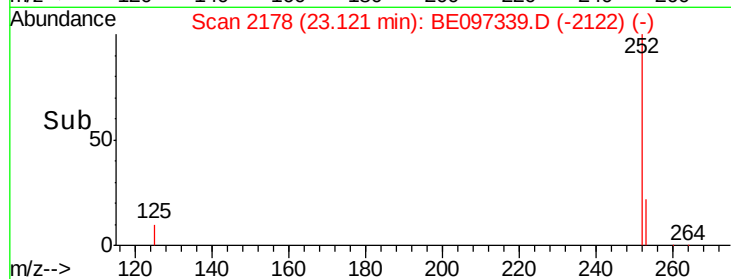
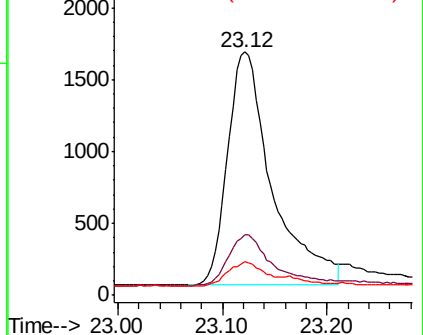
125 13.7 12.0 18.0



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: 0.463 ng

RT: 25.55 min Scan# 2854

Delta R.T. -0.01 min

Lab File: BE097339.D

Acq: 20 Aug 2018 19:29

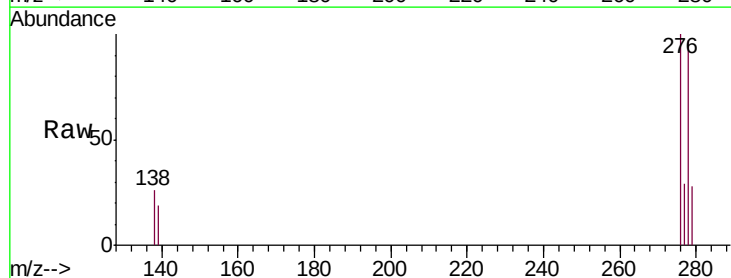
Tgt Ion: 278 Resp: 4010

Ion Ratio Lower Upper

278 100

139 19.6 16.0 24.0

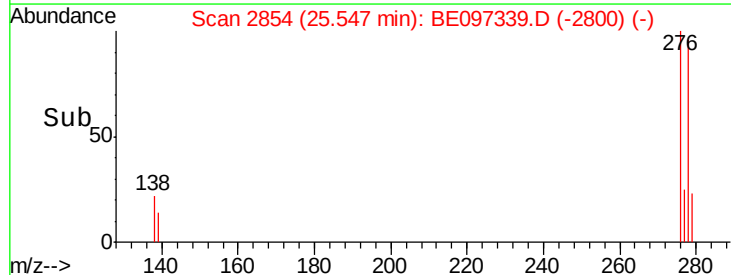
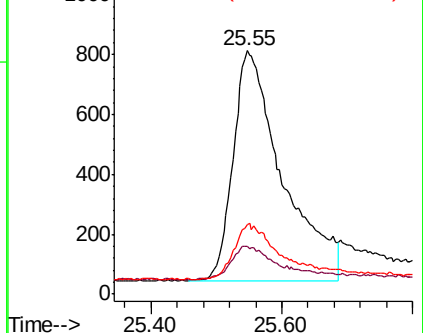
279 28.4 20.0 30.0

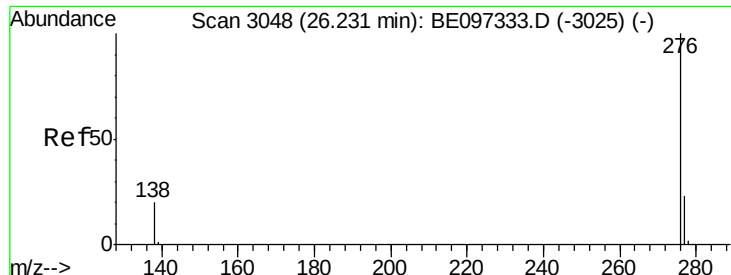


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(g,h,i)perylene

Concen: 0.503 ng

RT: 26.23 min Scan# 3046

Delta R.T. 0.00 min

Lab File: BE097339.D

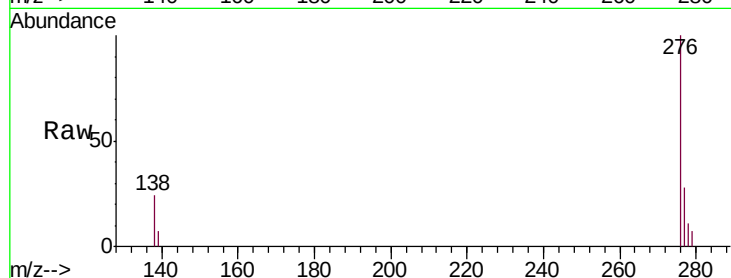
Acq: 20 Aug 2018 19:29

Instrument :

BNA_E

ClientSampleId :

PB112113BSD



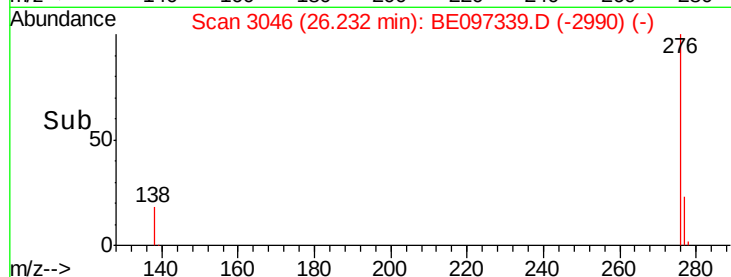
Tgt Ion: 276 Resp: 4386

Ion Ratio Lower Upper

276 100

277 27.9 16.0 24.0#

138 23.6 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

