

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE071918\
 Data File : BE097011.D
 Acq On : 19 Jul 2018 18:55
 Operator : SJ/JU
 Sample : J4014-09MSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 RE104D3-071318MSD

Quant Time: Jul 20 04:33:08 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE071618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 17 15:02:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.40	152	1526	0.40	ng	0.00
7) Naphthalene-d8	10.15	136	6566	0.40	ng	0.00
13) Acenaphthene-d10	14.01	164	3481	0.40	ng	-0.01
19) Phenanthrene-d10	16.77	188	10700	0.40	ng	-0.01
27) Chrysene-d12	20.98	240	12907	0.40	ng	0.00
34) Perylene-d12	23.21	264	11218	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.06	112	683	0.19	ng	0.01
5) Phenol-d6	6.60	99	579	0.10	ng	0.00
8) Nitrobenzene-d5	8.53	82	2390	0.50	ng	0.00
11) 2-Methylnaphthalene-d10	11.73	152	4361	0.46	ng	0.00
14) 2,4,6-Tribromophenol	15.52	330	465	0.57	ng	0.00
15) 2-Fluorobiphenyl	12.63	172	7376	0.57	ng	-0.01
25) Fluoranthene-d10	18.81	212	55824	0.60	ng	0.00
29) Terphenyl-d14	19.43	244	12120	0.49	ng	0.00

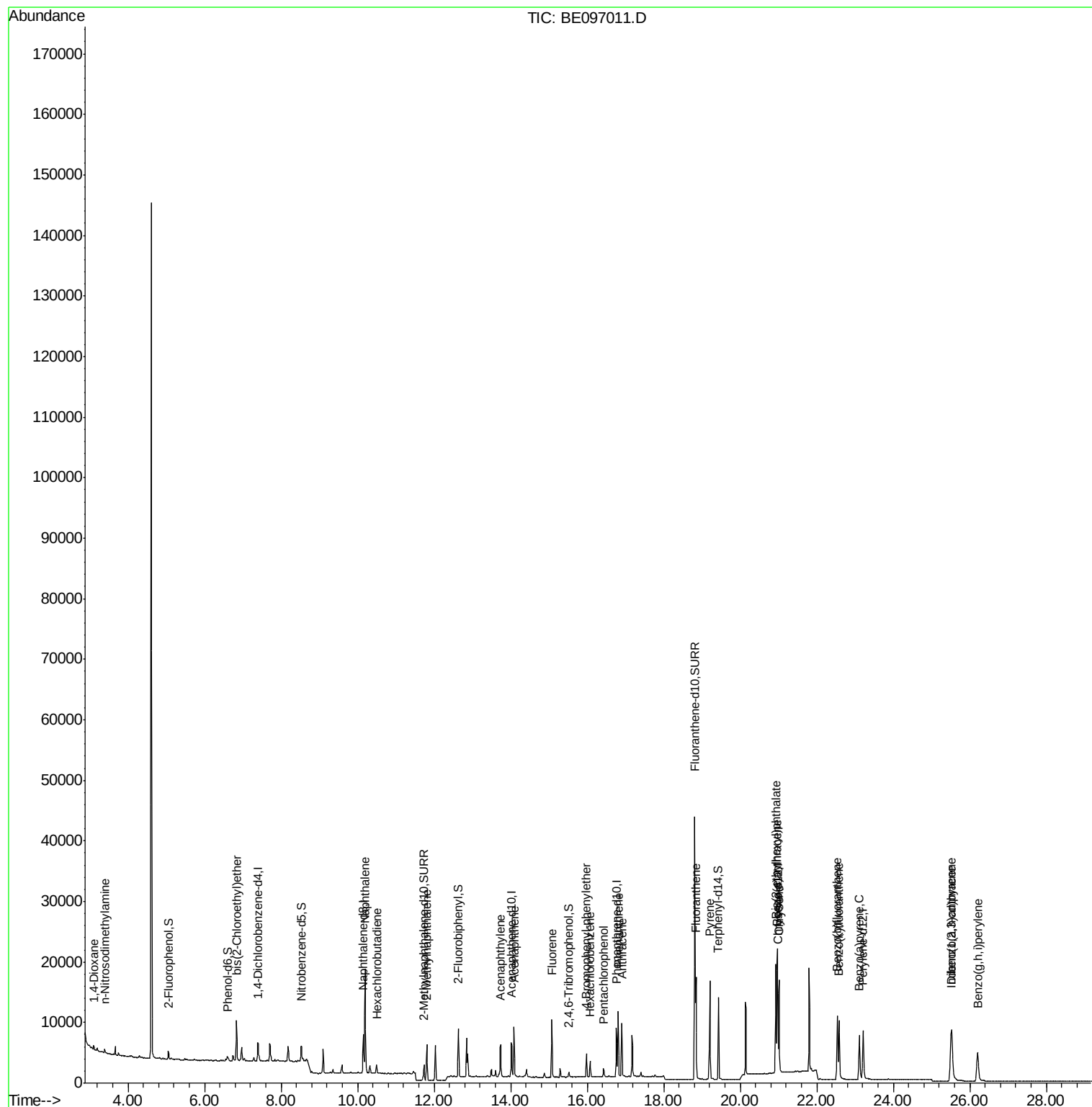
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.11	88	321	0.147	ng	# 53
3) n-Nitrosodimethylamine	3.38	42	431	0.175	ng	# 89
6) bis(2-Chloroethyl)ether	6.84	93	2076	0.380	ng	96
9) Naphthalene	10.20	128	26120	0.444	ng	99
10) Hexachlorobutadiene	10.50	225	1058	0.445	ng	98
12) 2-Methylnaphthalene	11.80	142	4236	0.425	ng	99
16) Acenaphthylene	13.74	152	6490	0.408	ng	99
17) Acenaphthene	14.08	154	3850	0.390	ng	93
18) Fluorene	15.08	166	5551	0.500	ng	# 80
20) 4-Bromophenyl-phenylether	15.97	248	1989	0.393	ng	# 84
21) Hexachlorobenzene	16.08	284	1955	0.348	ng	# 83
22) Pentachlorophenol	16.43	266	775	0.804	ng	# 74
23) Phenanthrene	16.81	178	11390	0.444	ng	99
24) Anthracene	16.91	178	10140	0.455	ng	95
26) Fluoranthene	18.84	202	14701	0.544	ng	98
28) Pyrene	19.21	202	15092	0.396	ng	99
30) Benzo(a)anthracene	20.95	228	15057	0.490	ng	98
31) Chrysene	21.01	228	14144	0.410	ng	99
32) Bis(2-ethylhexyl)phthalate	20.93	149	20306	0.662	ng	100
33) Indeno(1,2,3-cd)pyrene	25.50	276	13997	0.557	ng	# 92
35) Benzo(b)fluoranthene	22.54	252	13085	0.457	ng	# 87
36) Benzo(k)fluoranthene	22.58	252	14253	0.419	ng	96
37) Benzo(a)pyrene	23.11	252	11401	0.451	ng	# 92
38) Dibenzo(a,h)anthracene	25.53	278	11501	0.529	ng	96
39) Benzo(g,h,i)perylene	26.20	276	11416	0.490	ng	# 90

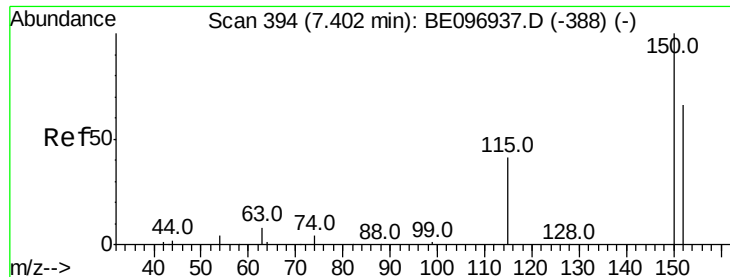
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.40 min Scan# 394

Delta R.T. -0.00 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

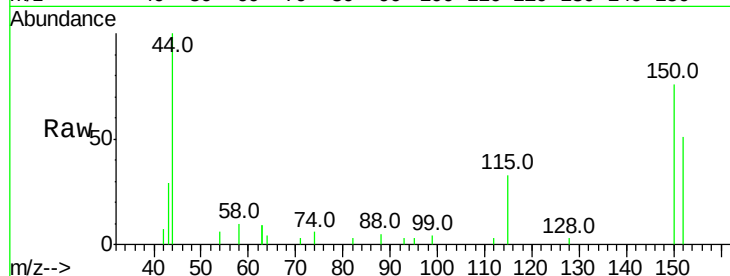
Tot Ion:152 Resp: 1526

Ion Ratio Lower Upper

152 100

150 148.1 117.2 175.8

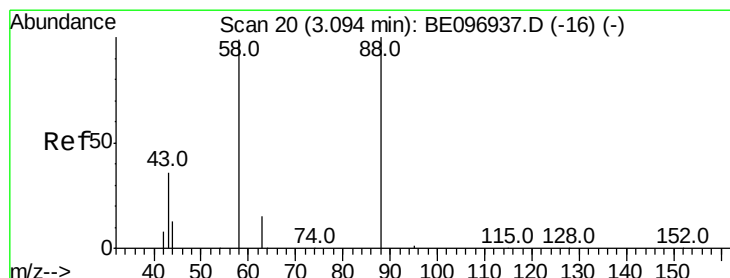
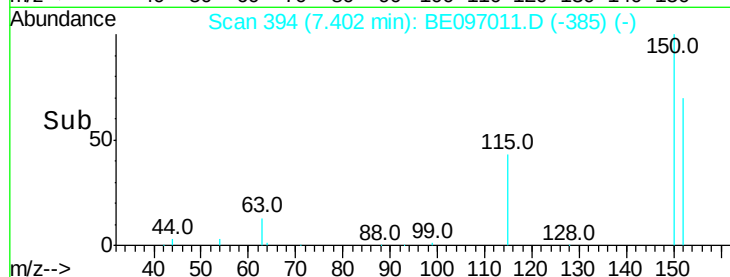
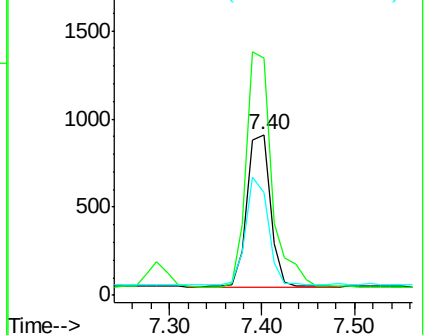
115 64.0 57.0 85.6



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: 0.147 ng

RT: 3.11 min Scan# 21

Delta R.T. 0.01 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

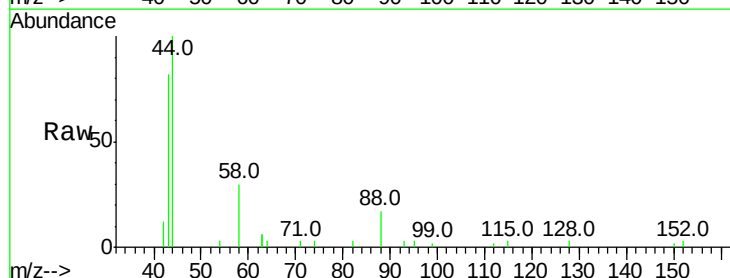
Tgt Ion: 88 Resp: 321

Ion Ratio Lower Upper

88 100

58 105.0 63.2 94.8#

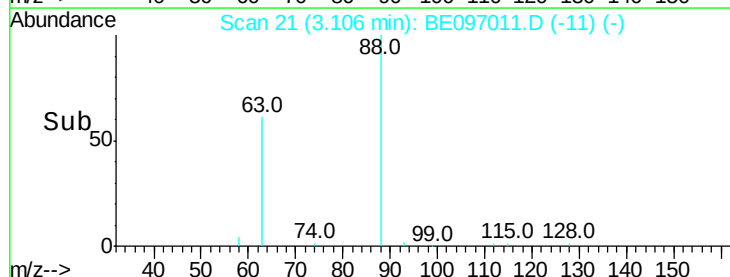
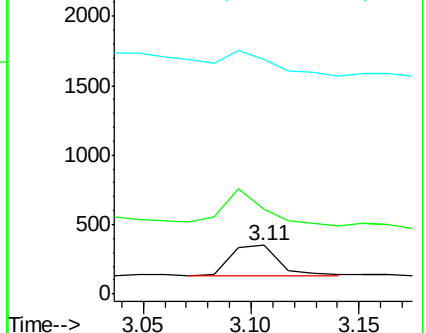
43 0.0 41.2 61.8#

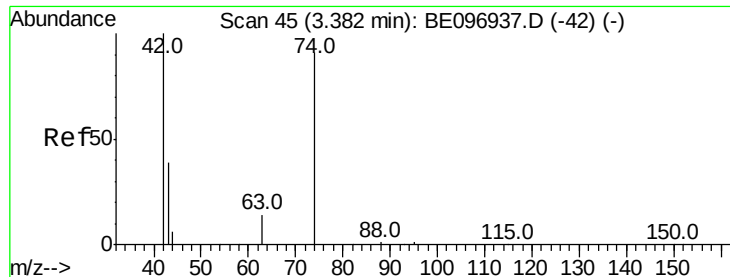


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.175 ng

RT: 3.38 min Scan# 45

Delta R.T. -0.00 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

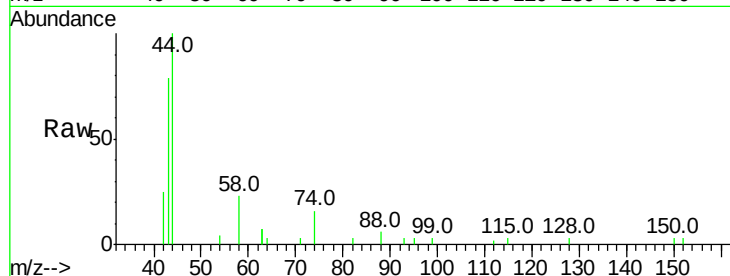
Tot Ion: 42 Resp: 431

Ion Ratio Lower Upper

42 100

74 111.1 96.0 144.0

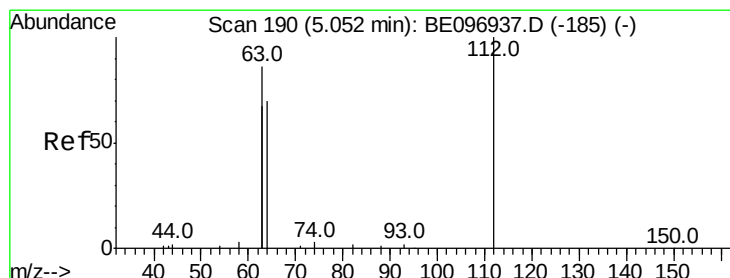
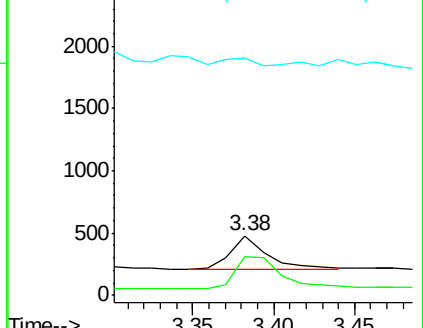
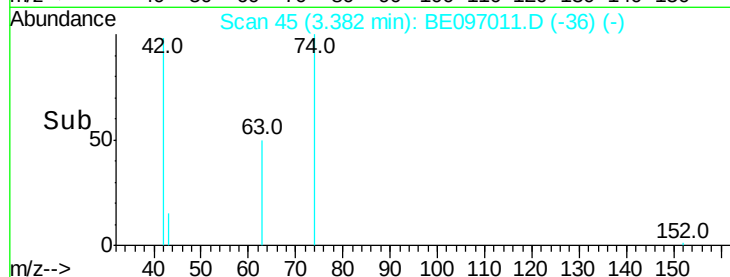
44 0.0 12.0 18.0#



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: 0.187 ng

RT: 5.06 min Scan# 191

Delta R.T. 0.01 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

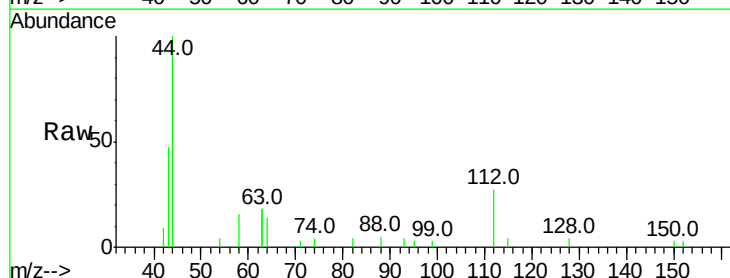
Tgt Ion: 112 Resp: 683

Ion Ratio Lower Upper

112 100

64 70.6 60.1 90.1

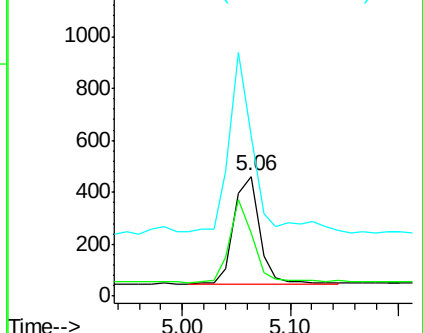
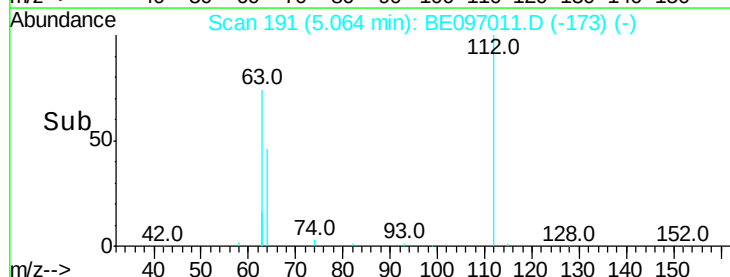
63 149.8 116.8 175.2

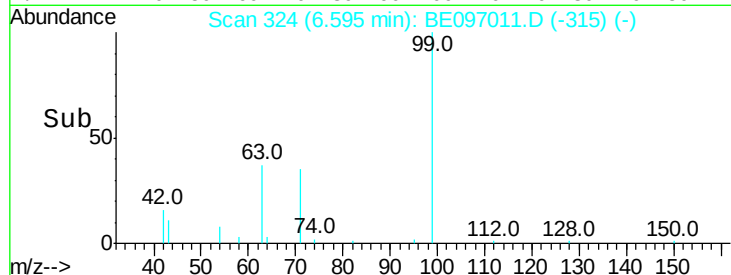
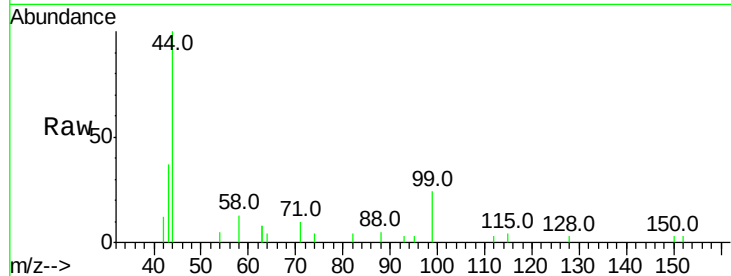
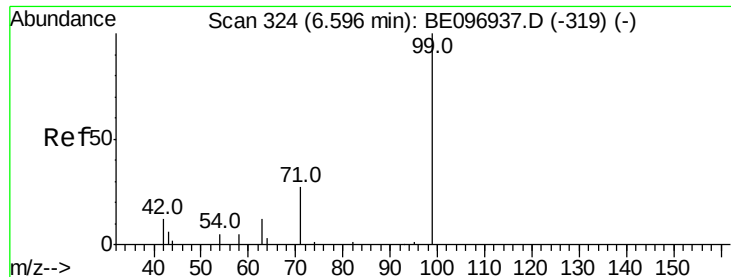


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.104 ng

RT: 6.60 min Scan# 324

Delta R.T. -0.00 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

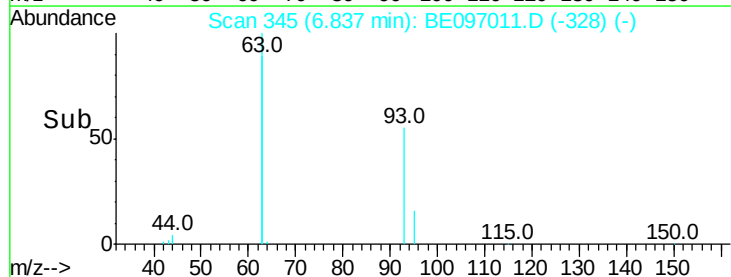
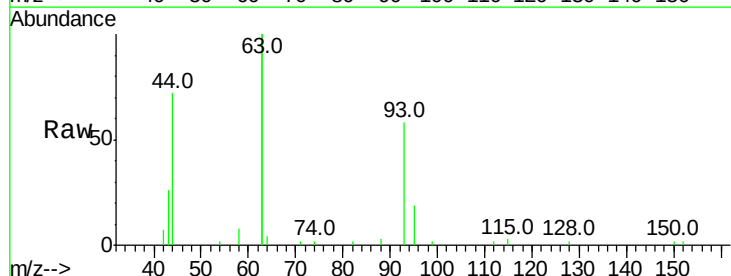
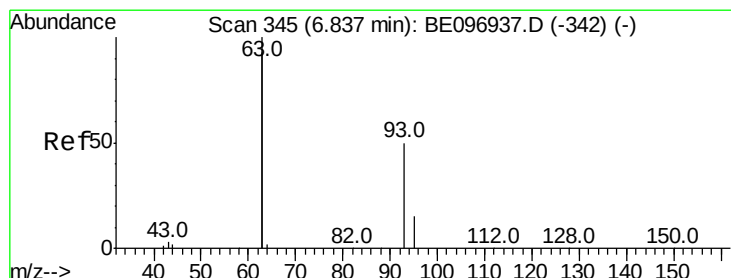
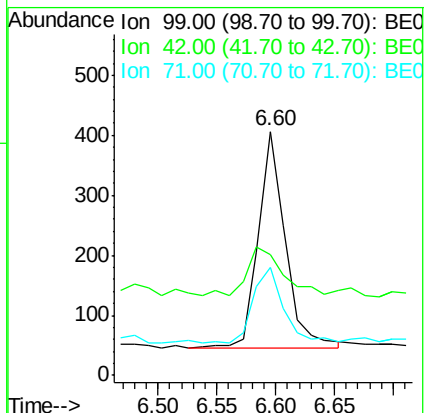
Tot Ion: 99 Resp: 579

Ion Ratio Lower Upper

99 100

42 29.0 20.2 30.2

71 39.6 28.4 42.6



#6

bis(2-Chloroethyl)ether

Concen: 0.380 ng

RT: 6.84 min Scan# 345

Delta R.T. -0.00 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

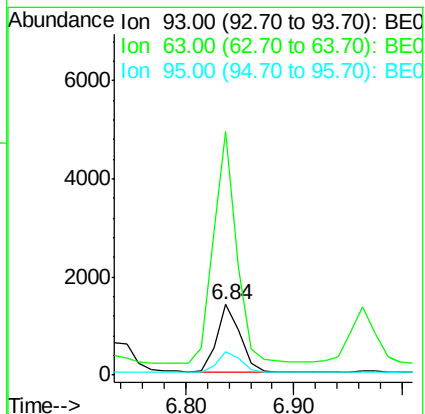
Tgt Ion: 93 Resp: 2076

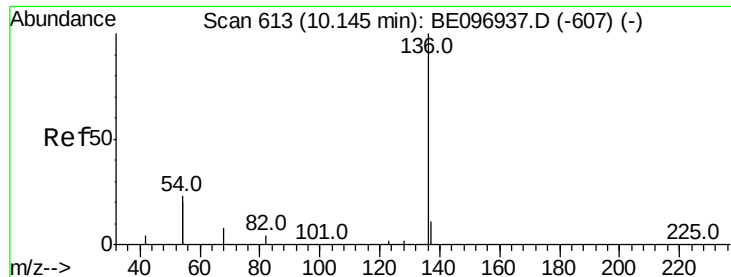
Ion Ratio Lower Upper

93 100

63 335.1 275.3 412.9

95 31.5 25.2 37.8





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.15 min Scan# 613

Delta R.T. 0.00 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

Tot Ion:136 Resp: 6566

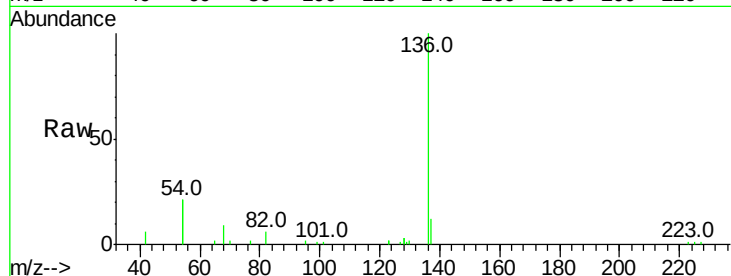
Ion Ratio Lower Upper

136 100

137 11.8 9.5 14.3

54 41.7 29.1 43.7

68 8.7 6.2 9.2

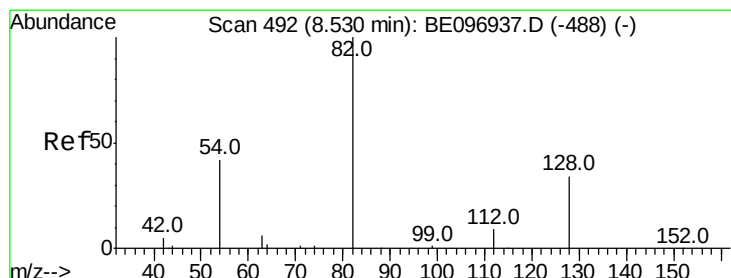
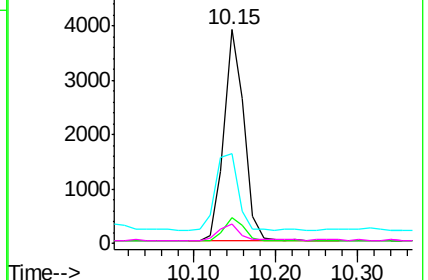
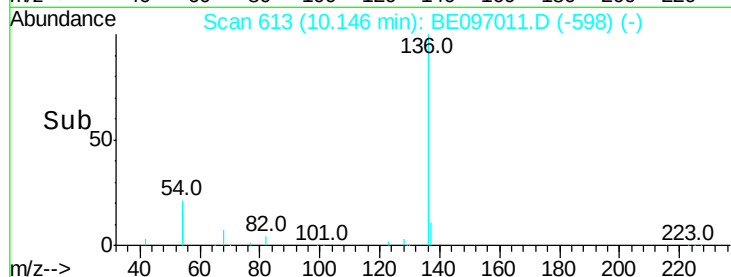


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.499 ng

RT: 8.53 min Scan# 492

Delta R.T. -0.00 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

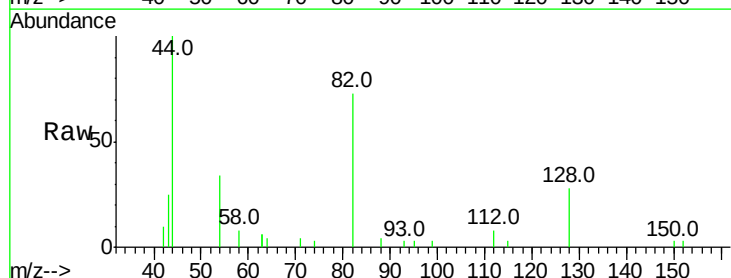
Tgt Ion: 82 Resp: 2390

Ion Ratio Lower Upper

82 100

128 38.3 24.0 36.0#

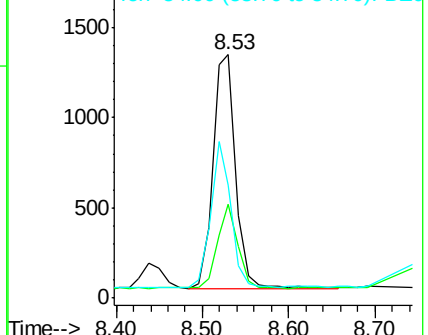
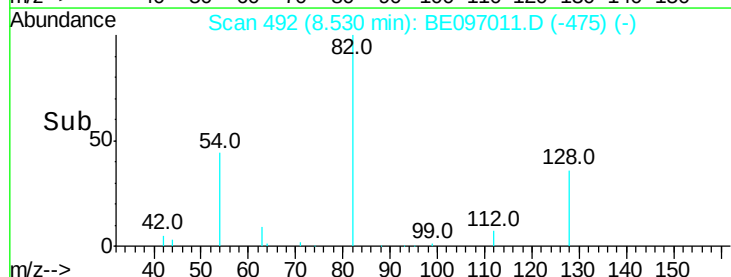
54 46.5 40.0 60.0

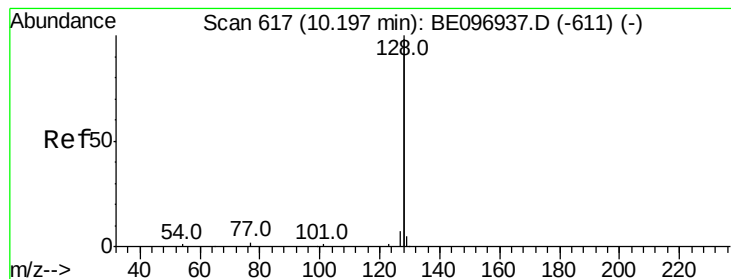


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.444 ng

RT: 10.20 min Scan# 617

Delta R.T. 0.00 min

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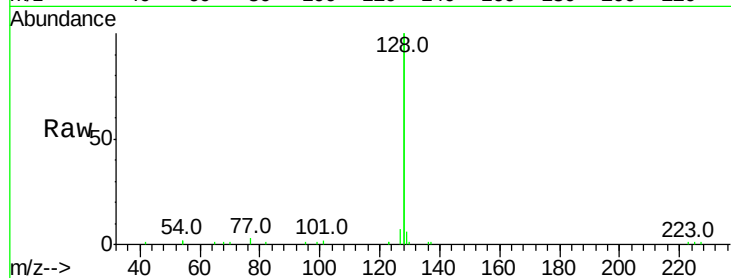
Tot Ion:128 Resp: 26120

Ion Ratio Lower Upper

128 100

129 3.0 2.6 3.8

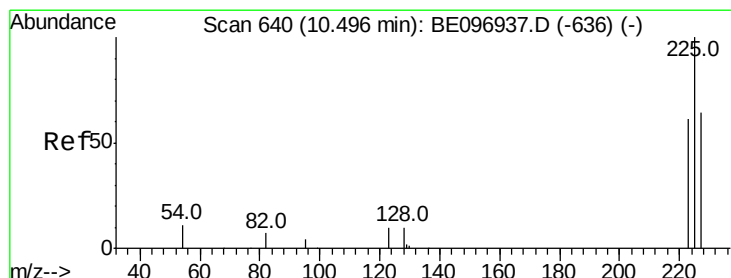
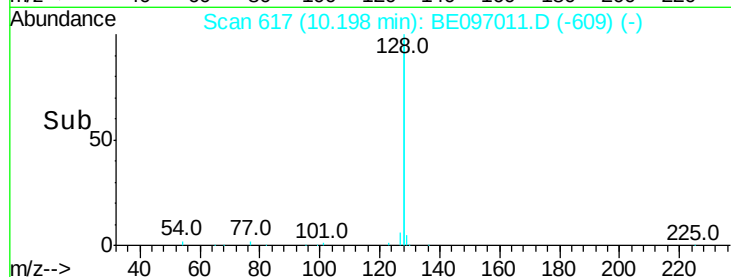
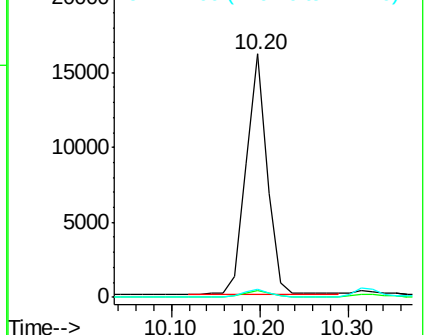
127 3.4 2.8 4.2



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: 0.445 ng

RT: 10.50 min Scan# 640

Delta R.T. 0.00 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

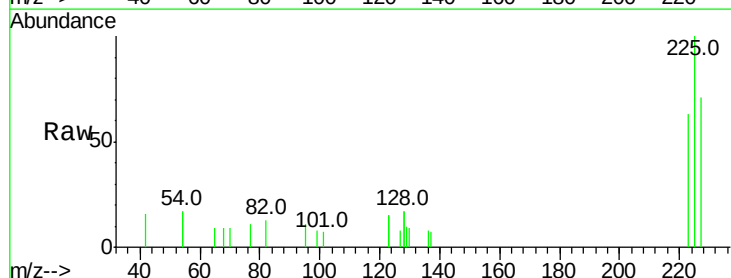
Tgt Ion:225 Resp: 1058

Ion Ratio Lower Upper

225 100

223 63.2 53.0 79.6

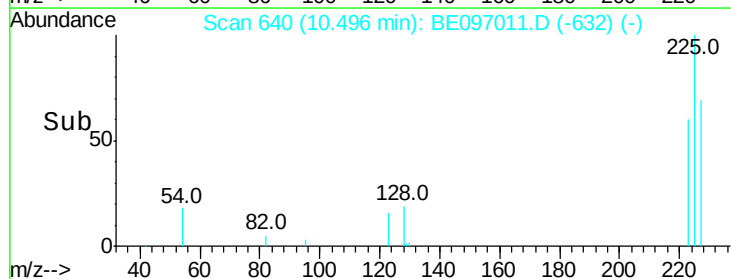
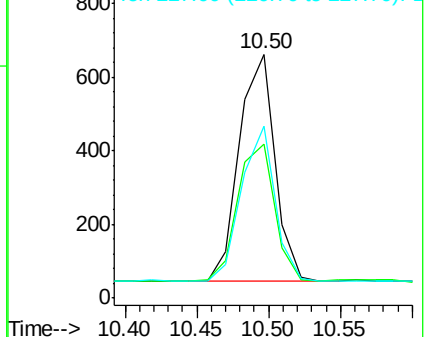
227 65.0 51.4 77.2

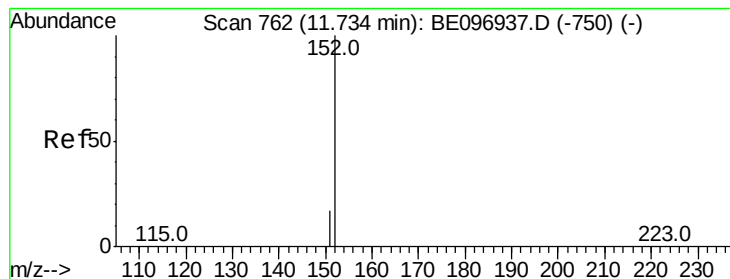


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.456 ng

RT: 11.73 min Scan# 762

Delta R.T. -0.00 min

Lab File: BE097011.D

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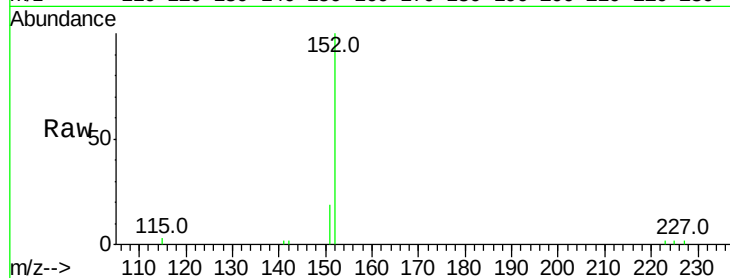
RE104D3-071318MSD

Tot Ion:152 Resp: 4361

Ion Ratio Lower Upper

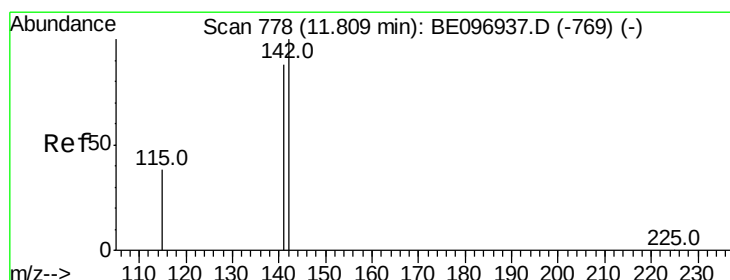
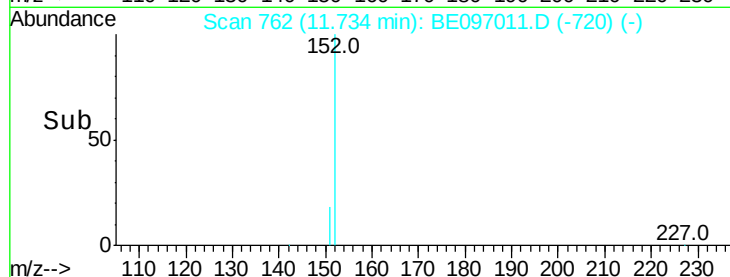
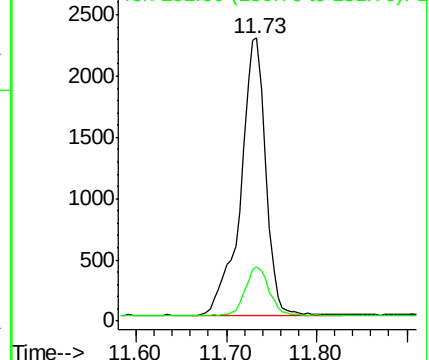
152 100

151 16.5 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.425 ng

RT: 11.80 min Scan# 777

Delta R.T. -0.00 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

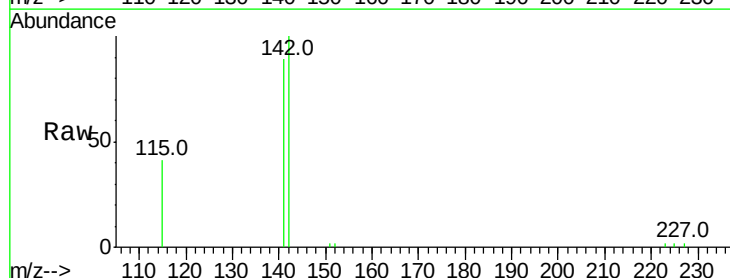
Tgt Ion:142 Resp: 4236

Ion Ratio Lower Upper

142 100

141 89.1 70.4 105.6

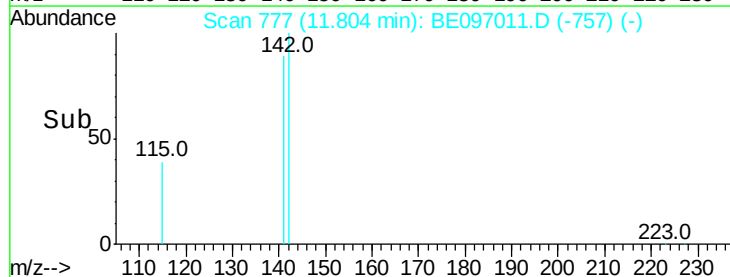
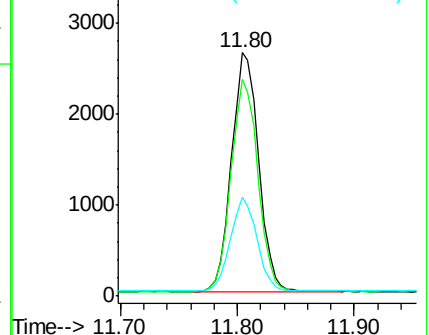
115 40.8 31.7 47.5

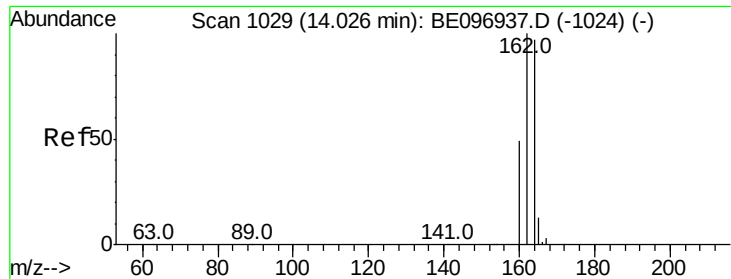


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

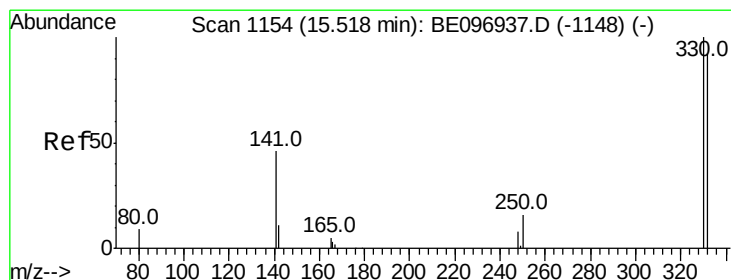
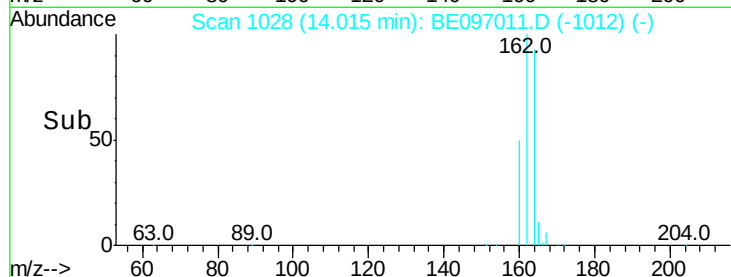
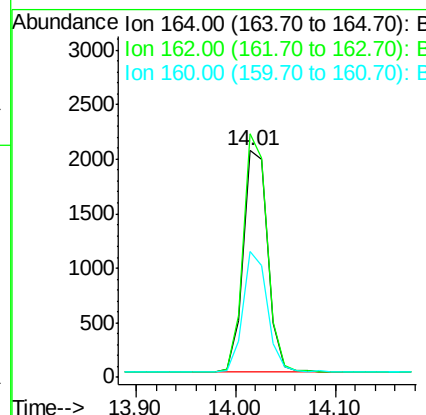
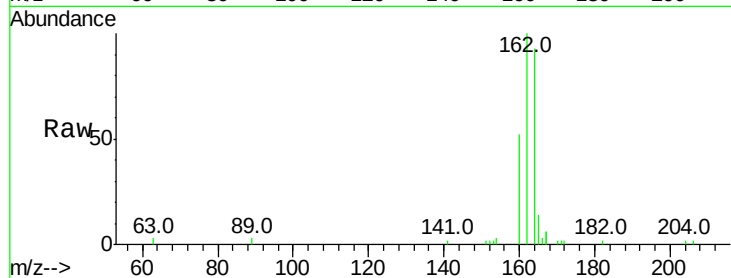




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.01 min Scan# 1028
 Delta R.T. -0.01 min
 Lab File: BE097011.D
 Acq: 19 Jul 2018 18:55

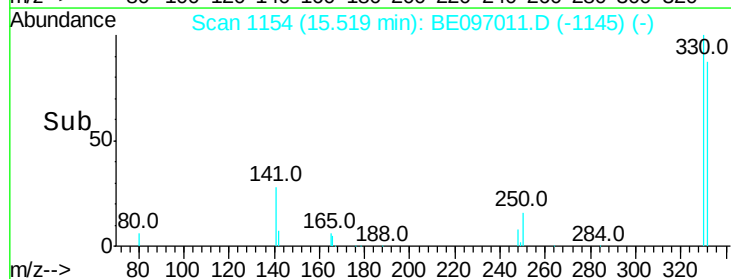
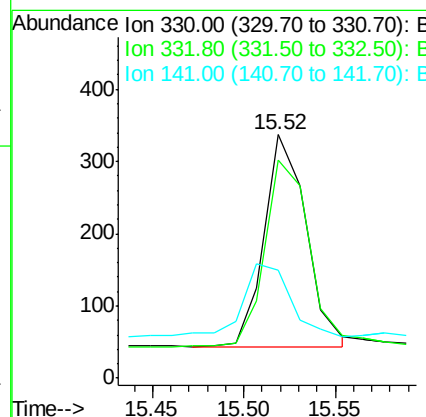
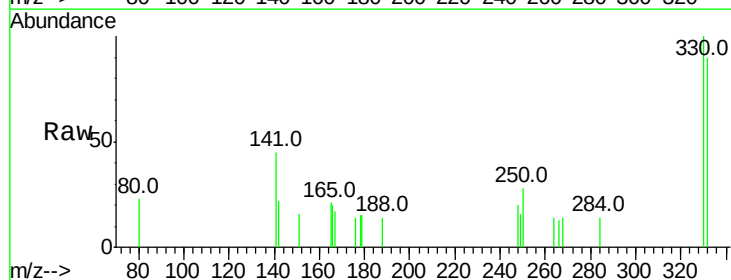
Instrument :
 BNA_E
 ClientSampleId :
 RE104D3-071318MSD

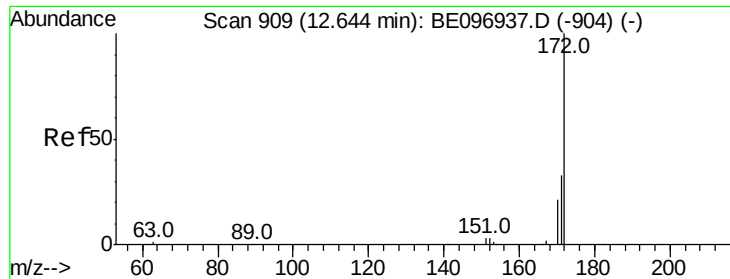
Tot Ion:164 Resp: 3481
 Ion Ratio Lower Upper
 164 100
 162 107.5 83.1 124.7
 160 55.4 37.1 55.7



#14
 2,4,6-Tribromophenol
 Concen: 0.572 ng
 RT: 15.52 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: BE097011.D
 Acq: 19 Jul 2018 18:55

Tgt Ion:330 Resp: 465
 Ion Ratio Lower Upper
 330 100
 332 93.3 152.7 229.1#
 141 38.3 33.7 50.5

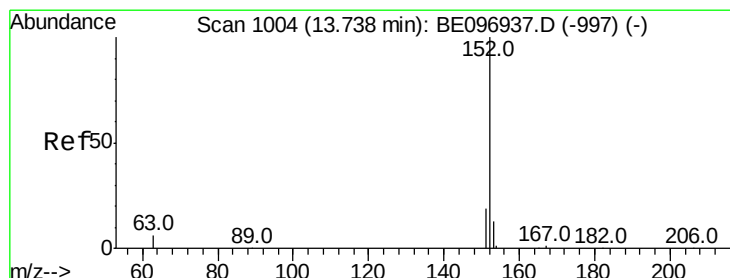
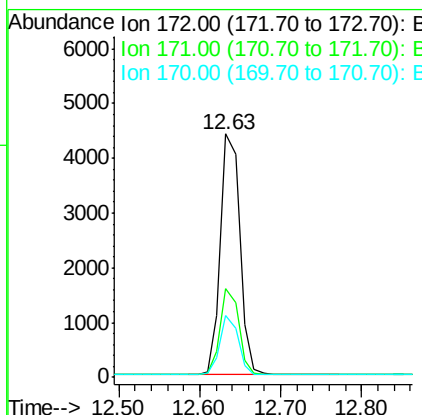
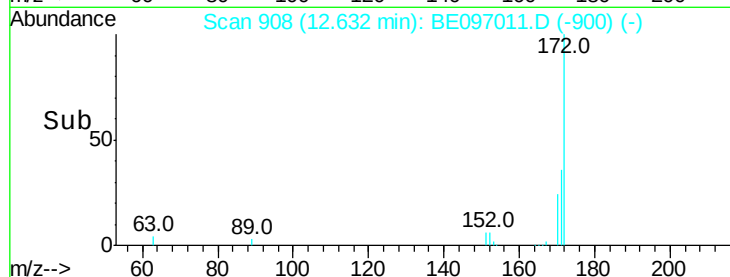
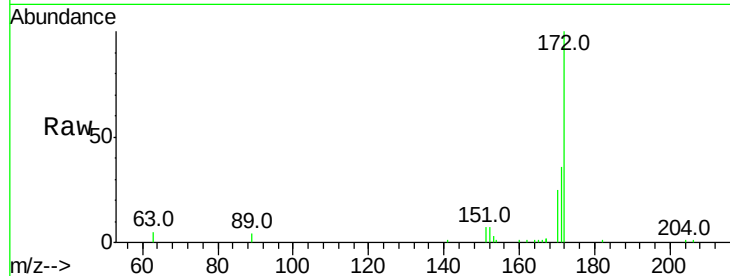




#15
2-Fluorobiphenyl
Concen: 0.570 ng
RT: 12.63 min Scan# 908
Delta R.T. -0.01 min
Lab File: BE097011.D
Acq: 19 Jul 2018 18:55

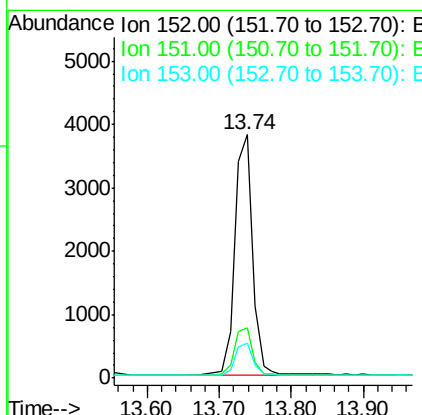
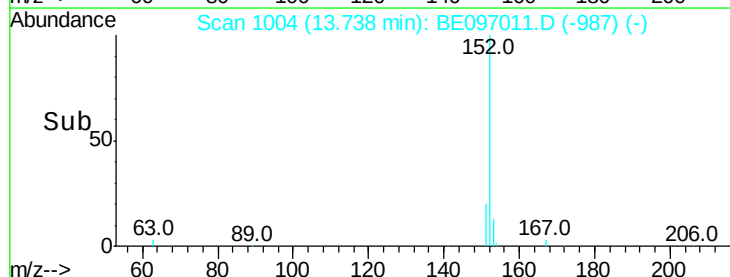
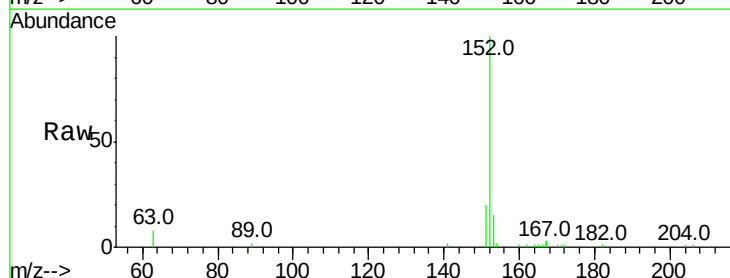
Instrument :
BNA_E
ClientSampleId :
RE104D3-071318MSD

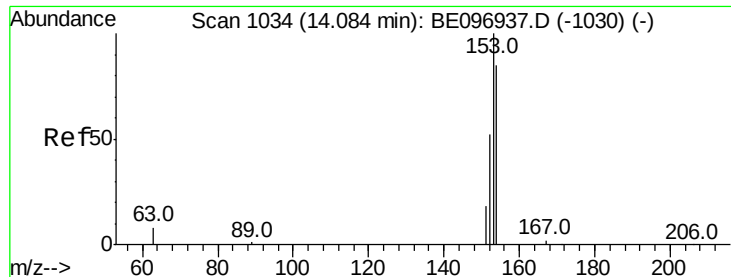
Tot Ion:172 Resp: 7376
Ion Ratio Lower Upper
172 100
171 36.4 29.9 44.9
170 25.3 21.8 32.8



#16
Acenaphthylene
Concen: 0.408 ng
RT: 13.74 min Scan# 1004
Delta R.T. -0.00 min
Lab File: BE097011.D
Acq: 19 Jul 2018 18:55

Tgt Ion:152 Resp: 6490
Ion Ratio Lower Upper
152 100
151 19.5 15.7 23.5
153 13.5 10.5 15.7





#17

Acenaphthene

Concen: 0.390 ng

RT: 14.08 min Scan# 1034

Delta R.T. -0.00 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

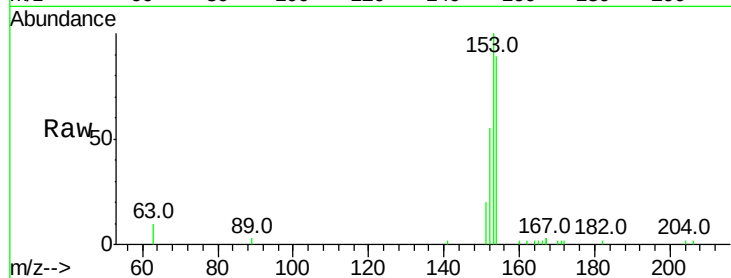
Tot Ion:154 Resp: 3850

Ion Ratio Lower Upper

154 100

153 115.5 89.2 133.8

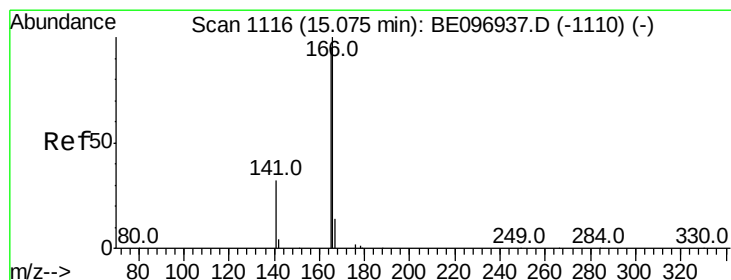
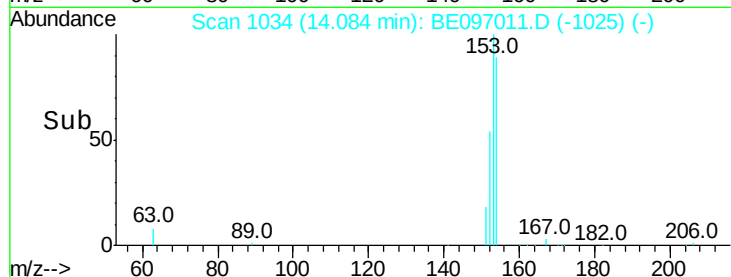
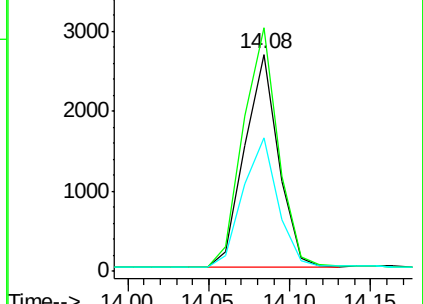
152 62.4 42.0 63.0



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: 0.500 ng

RT: 15.08 min Scan# 1116

Delta R.T. 0.00 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

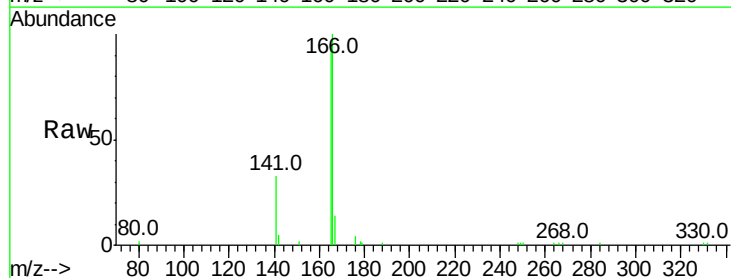
Tgt Ion:166 Resp: 5551

Ion Ratio Lower Upper

166 100

165 97.6 77.8 116.6

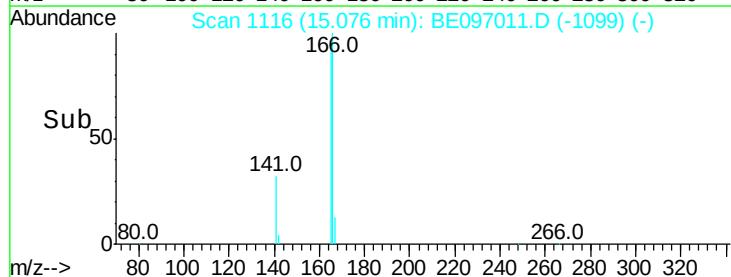
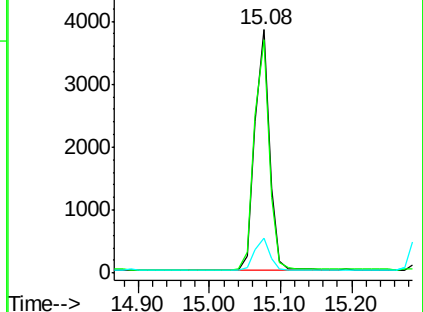
167 13.8 42.4 63.6#

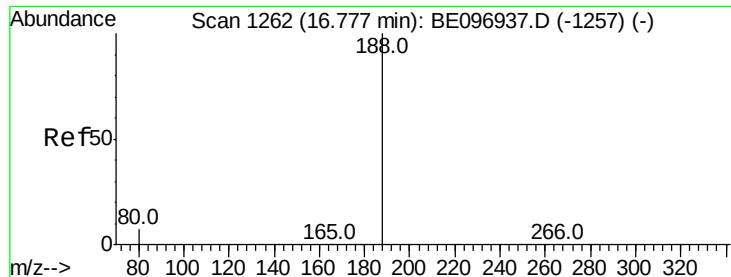


Abundance Ion 166.00 (165.70 to 166.70): E

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. -0.01 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

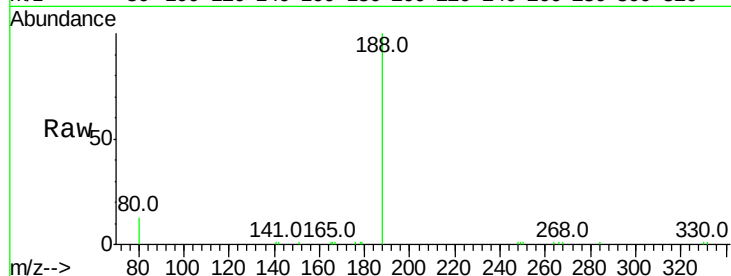
Tot Ion:188 Resp: 10700

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

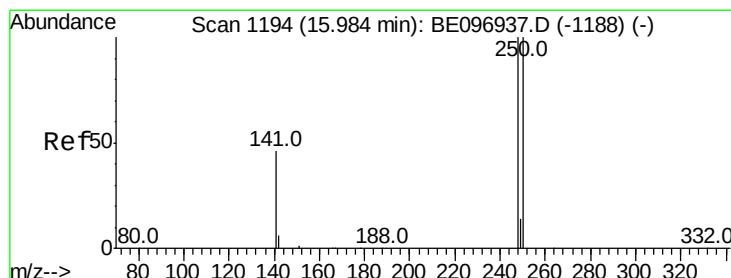
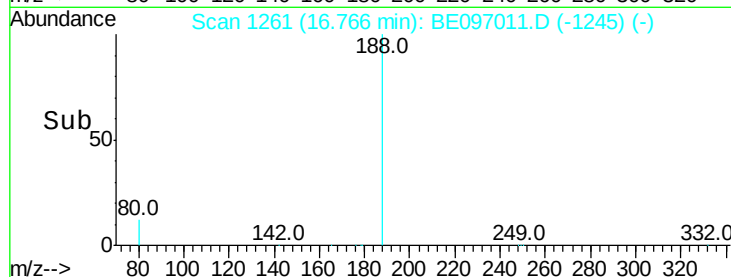
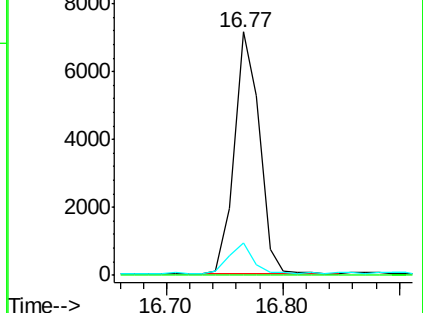
80 13.1 3.6 5.4#



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



#20

4-Bromophenyl-phenylether

Concen: 0.393 ng

RT: 15.97 min Scan# 1193

Delta R.T. -0.01 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

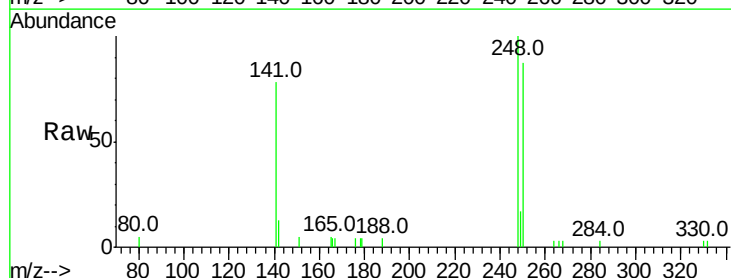
Tgt Ion:248 Resp: 1989

Ion Ratio Lower Upper

248 100

250 87.0 62.7 94.1

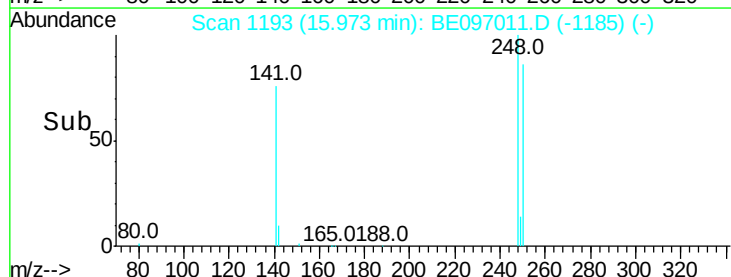
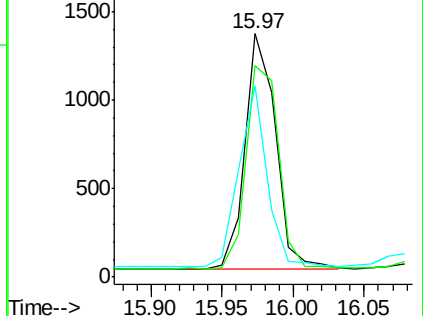
141 78.4 48.2 72.2#

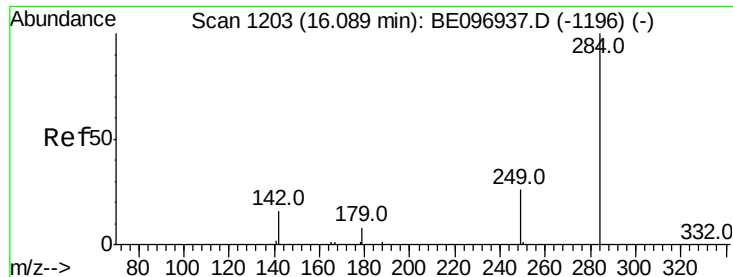


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.348 ng

RT: 16.08 min Scan# 1202

Delta R.T. -0.01 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

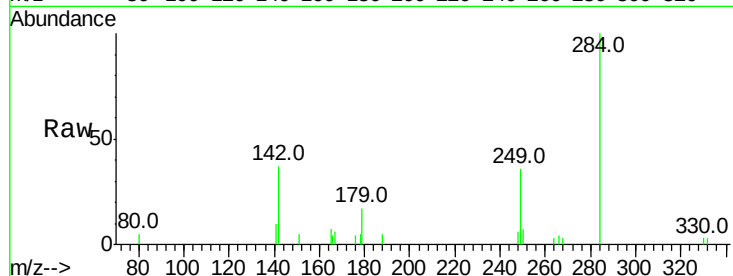
Tot Ion:284 Resp: 1955

Ion Ratio Lower Upper

284 100

142 34.6 22.1 33.1#

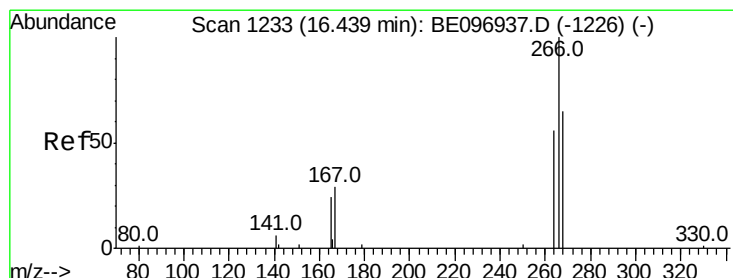
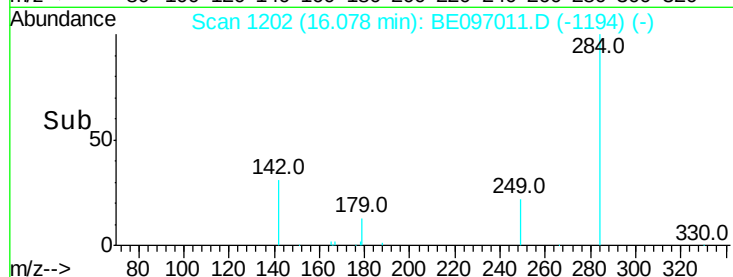
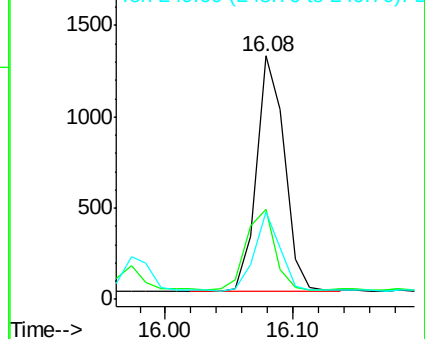
249 30.9 34.8 52.2#



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: 0.804 ng

RT: 16.43 min Scan# 1232

Delta R.T. -0.01 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

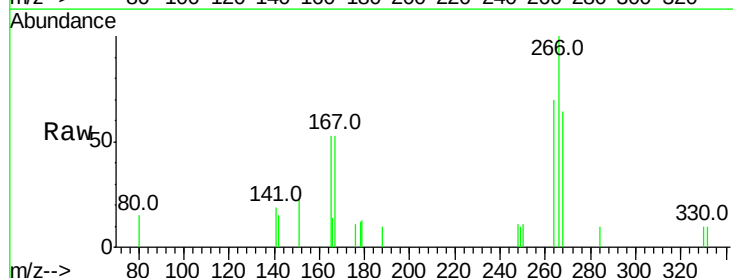
Tgt Ion:266 Resp: 775

Ion Ratio Lower Upper

266 100

264 69.7 72.5 108.7#

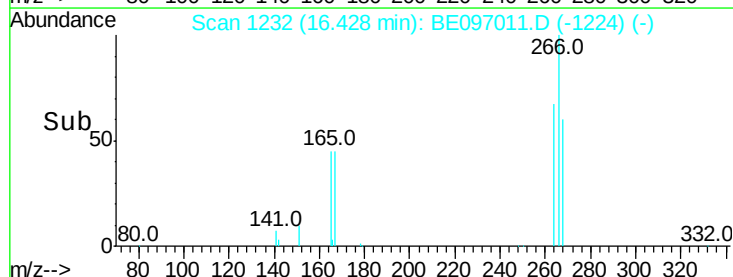
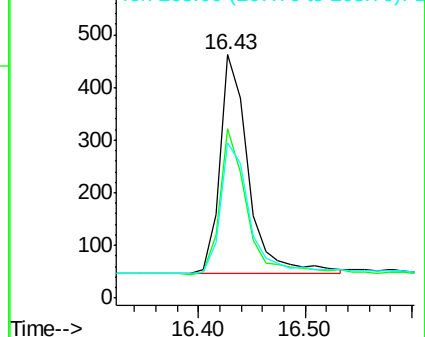
268 63.6 73.8 110.6#

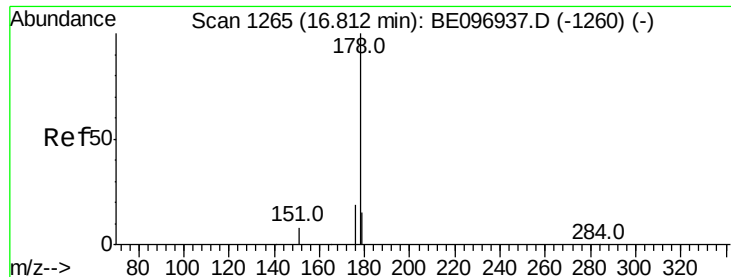


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.444 ng

RT: 16.81 min Scan# 1265

Delta R.T. 0.00 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

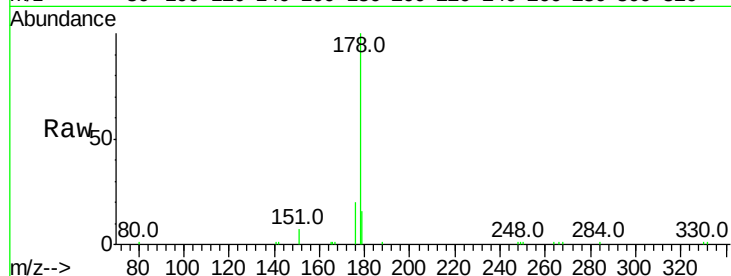
Tot Ion:178 Resp: 11390

Ion Ratio Lower Upper

178 100

176 19.4 15.1 22.7

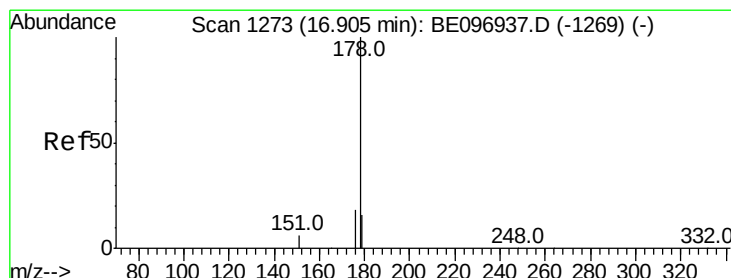
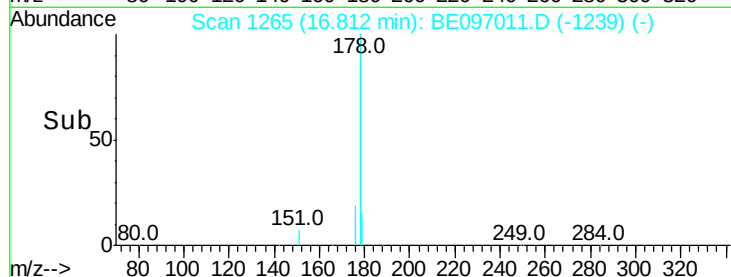
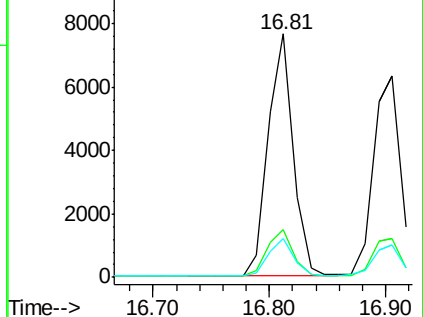
179 15.3 11.8 17.6



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: 0.455 ng

RT: 16.91 min Scan# 1273

Delta R.T. 0.00 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

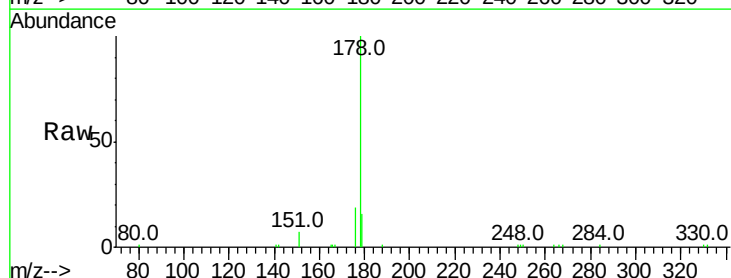
Tgt Ion:178 Resp: 10140

Ion Ratio Lower Upper

178 100

176 19.0 12.8 19.2

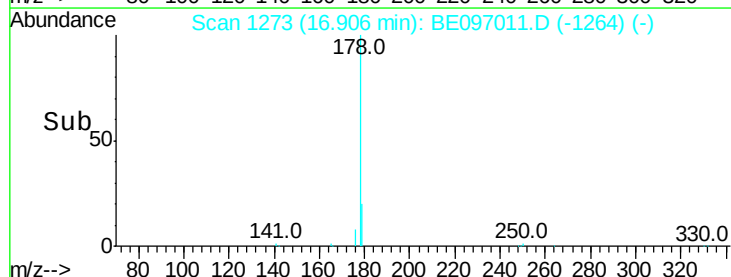
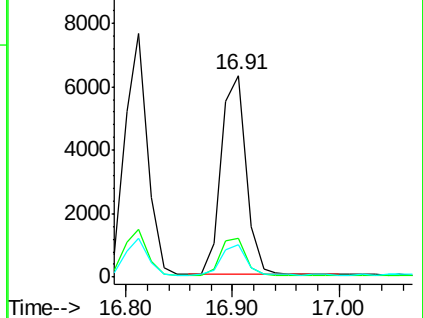
179 15.2 13.0 19.6

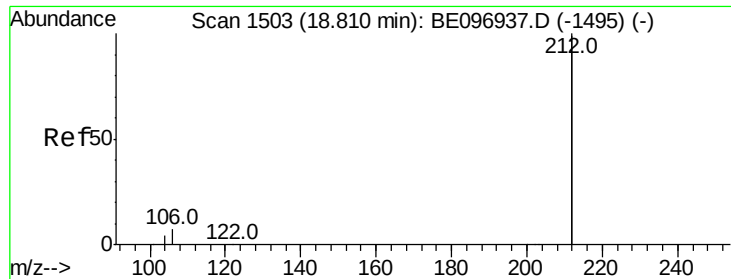


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.600 ng

RT: 18.81 min Scan# 1503

Delta R.T. 0.00 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

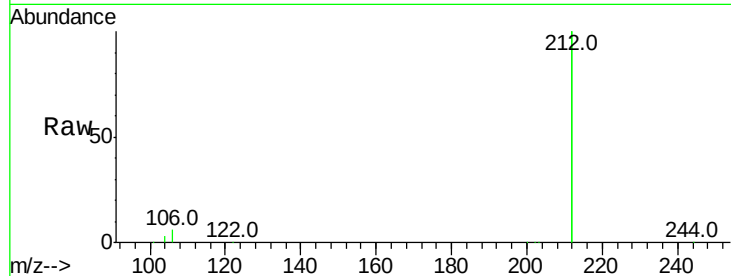
Tot Ion:212 Resp: 55824

Ion Ratio Lower Upper

212 100

106 3.1 2.8 4.2

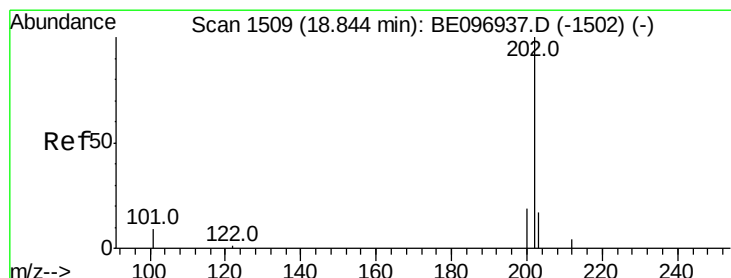
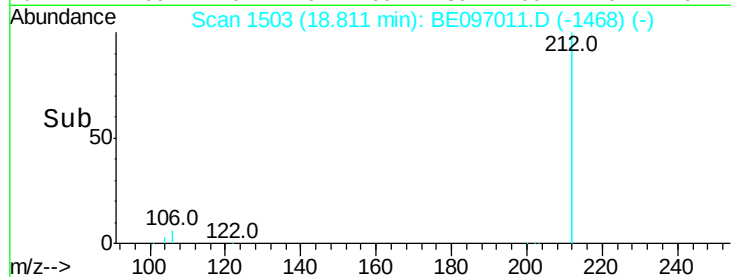
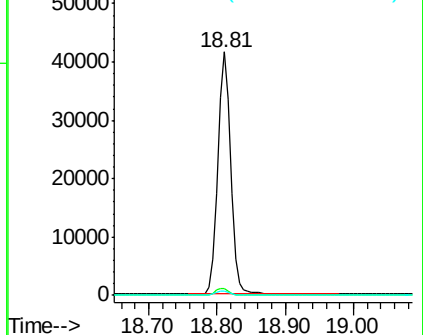
104 1.6 1.6 2.4



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: 0.544 ng

RT: 18.84 min Scan# 1508

Delta R.T. -0.00 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

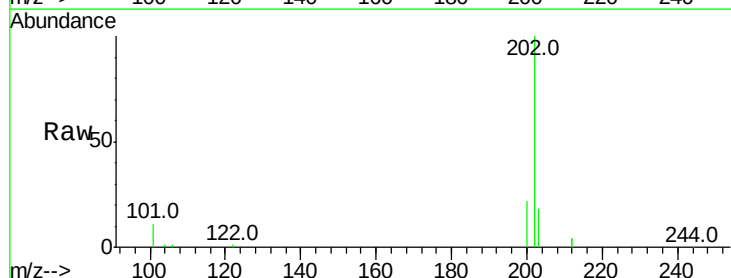
Tgt Ion:202 Resp: 14701

Ion Ratio Lower Upper

202 100

101 10.9 9.8 14.8

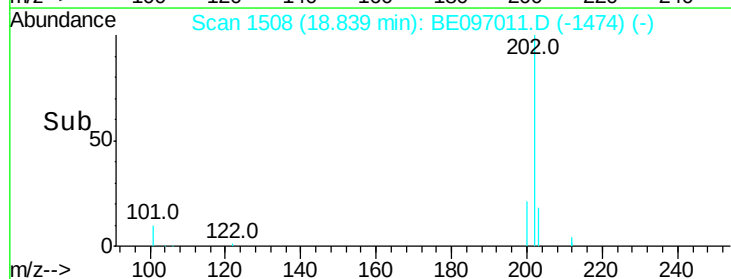
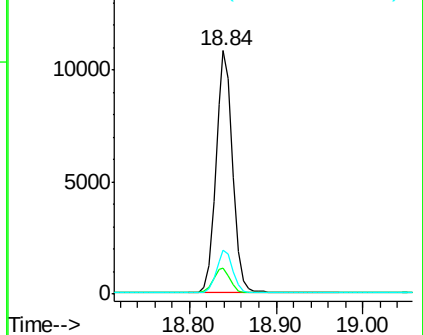
203 17.3 13.7 20.5

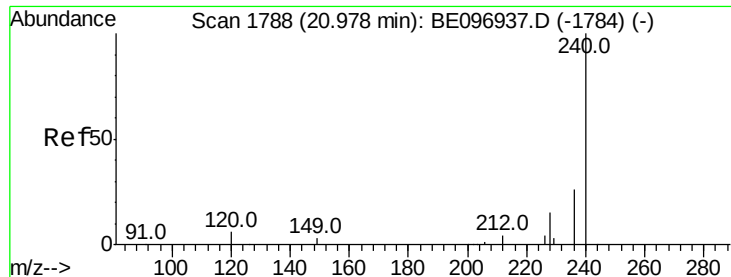


Abundance Ion 202.00 (201.70 to 202.70): E

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: BE097011.D

Acq: 19 Jul 2018 18:55

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

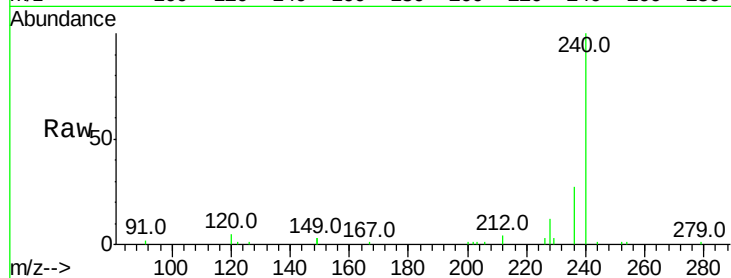
Tot Ion:240 Resp: 12907

Ion Ratio Lower Upper

240 100

120 4.6 5.5 8.3#

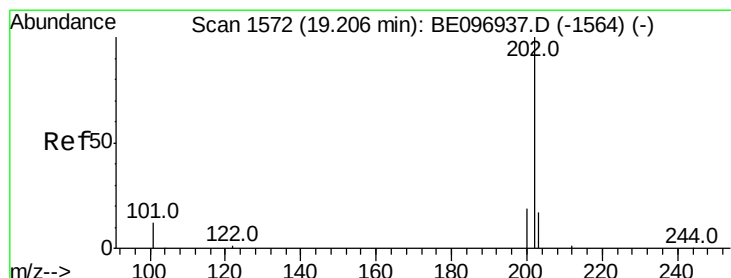
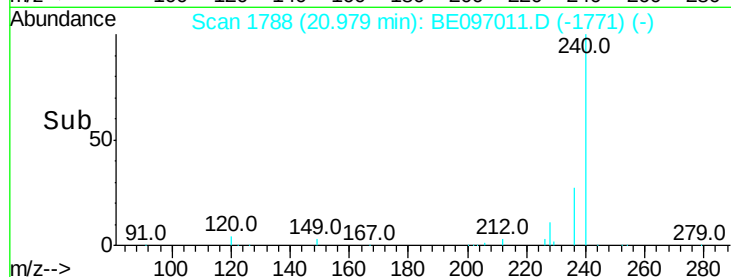
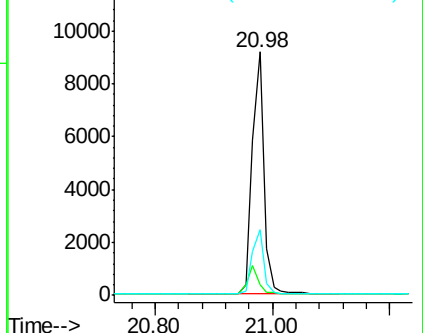
236 27.1 20.7 31.1



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: 0.396 ng

RT: 19.21 min Scan# 1572

Delta R.T. 0.00 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

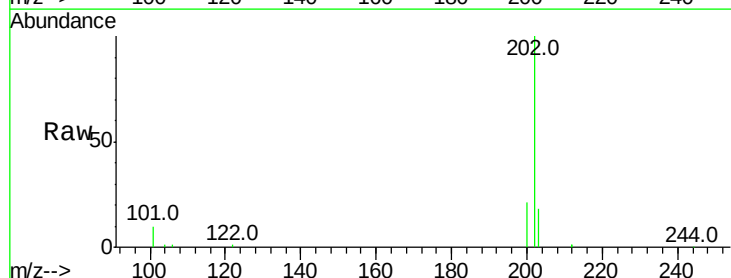
Tgt Ion:202 Resp: 15092

Ion Ratio Lower Upper

202 100

200 21.2 16.6 25.0

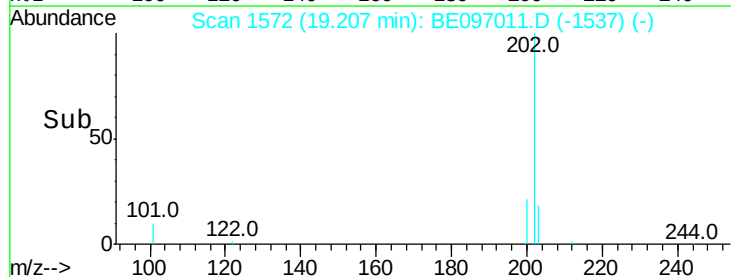
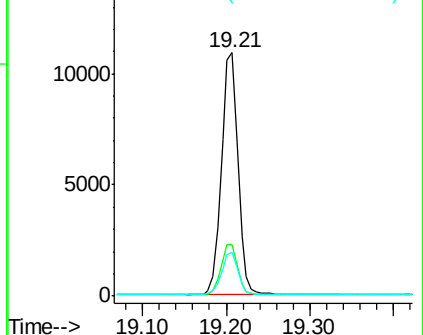
203 17.7 13.8 20.8

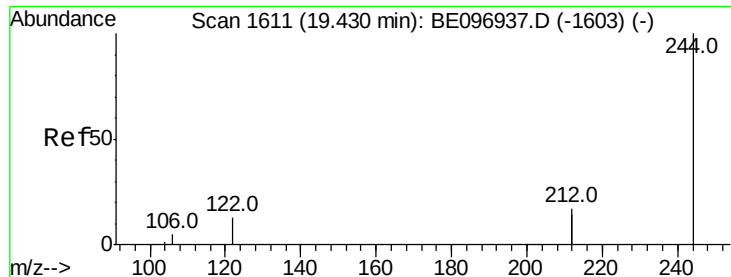


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.487 ng

RT: 19.43 min Scan# 1611

Delta R.T. 0.00 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

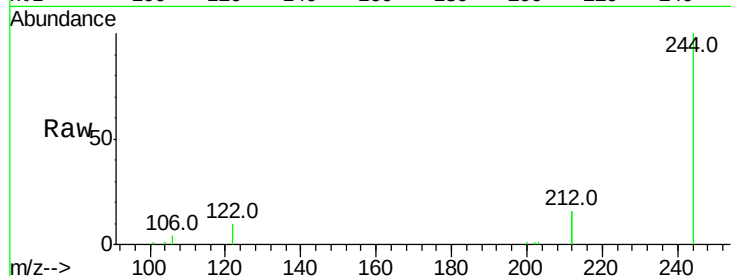
Tot Ion:244 Resp: 12120

Ion Ratio Lower Upper

244 100

212 32.0 25.4 38.0

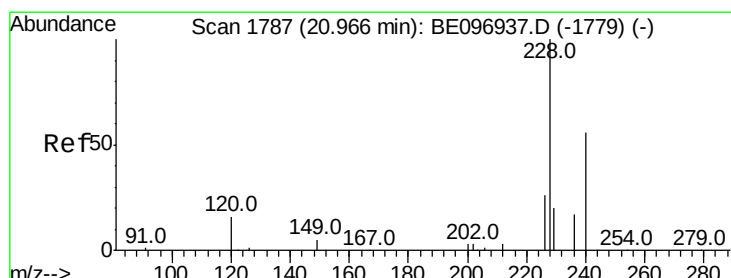
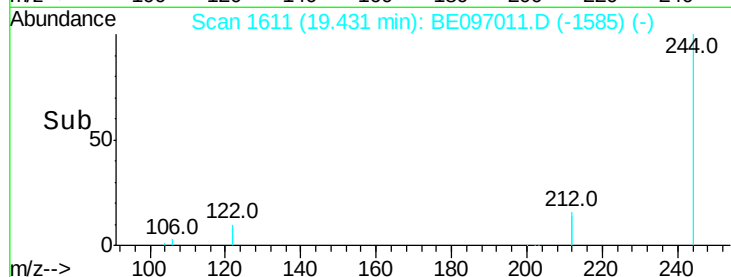
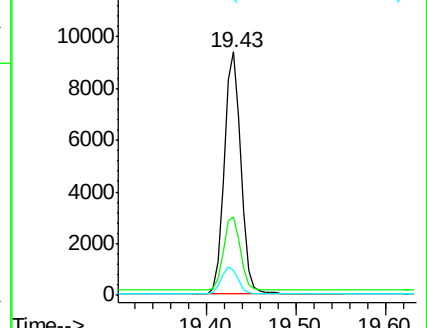
122 10.2 8.1 12.1



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: 0.490 ng

RT: 20.95 min Scan# 1786

Delta R.T. -0.01 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

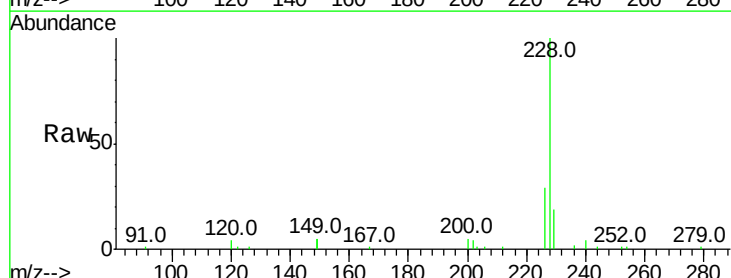
Tgt Ion:228 Resp: 15057

Ion Ratio Lower Upper

228 100

226 29.0 24.0 36.0

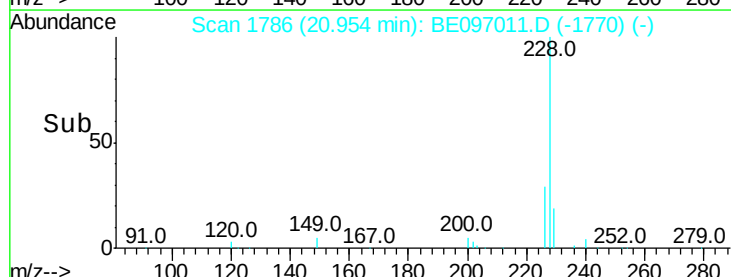
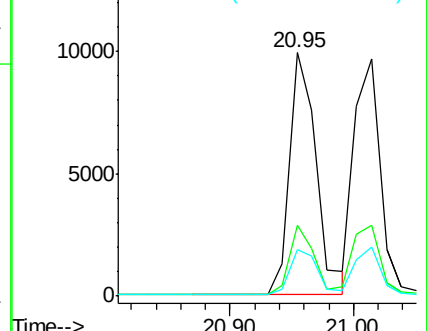
229 19.3 16.0 24.0

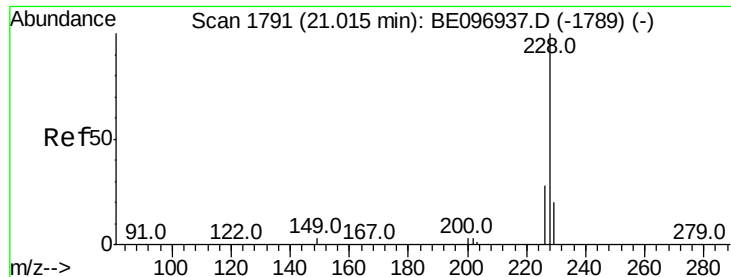


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.410 ng

RT: 21.01 min Scan# 1791

Delta R.T. 0.00 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

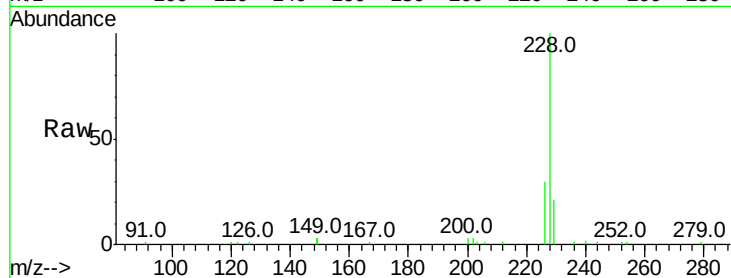
Tot Ion:228 Resp: 14144

Ion Ratio Lower Upper

228 100

226 29.6 24.0 36.0

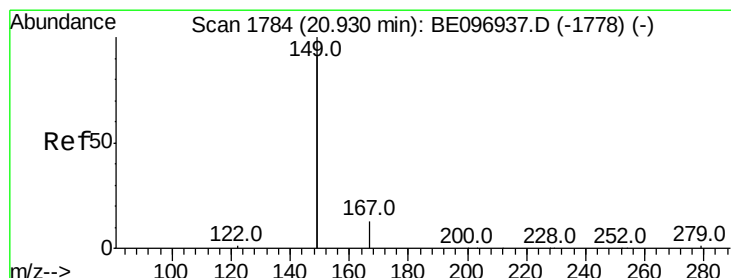
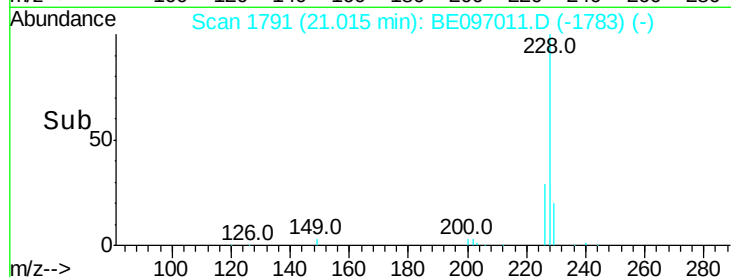
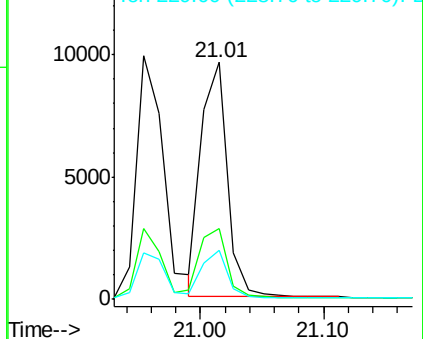
229 20.7 16.0 24.0



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: 0.662 ng

RT: 20.93 min Scan# 1784

Delta R.T. 0.00 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

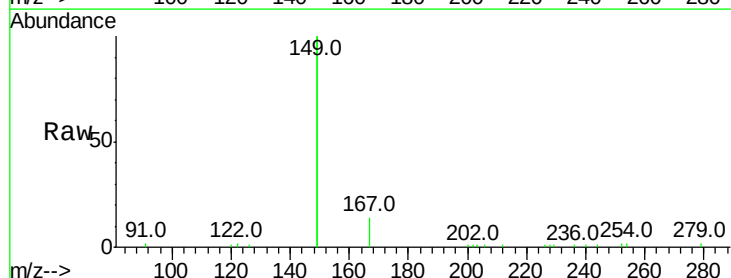
Tgt Ion:149 Resp: 20306

Ion Ratio Lower Upper

149 100

167 6.5 5.4 8.0

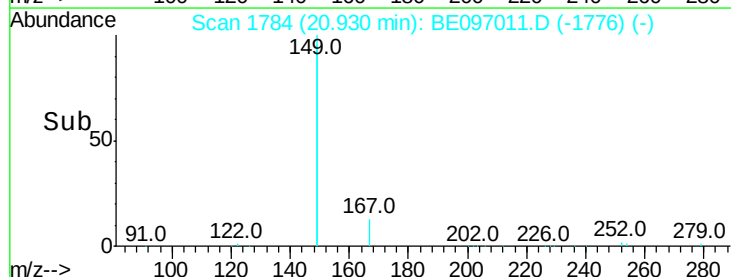
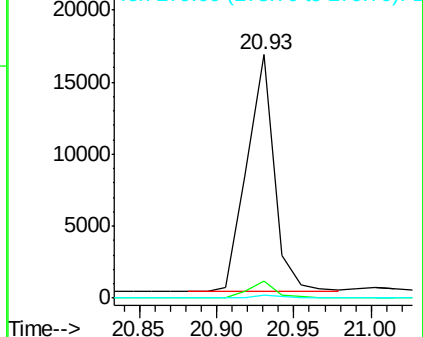
279 0.9 0.7 1.1

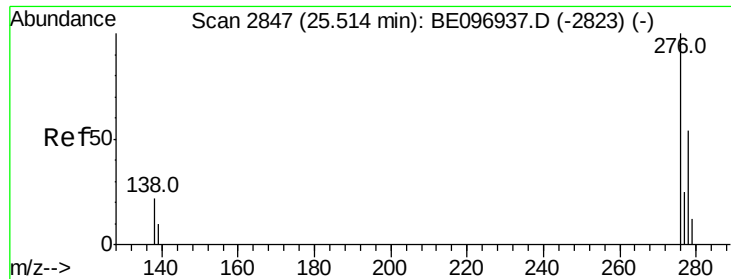


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.557 ng

RT: 25.50 min Scan# 2844

Delta R.T. -0.01 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

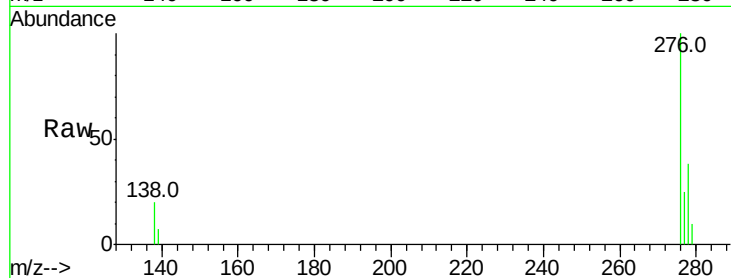
Tot Ion:276 Resp: 13997

Ion Ratio Lower Upper

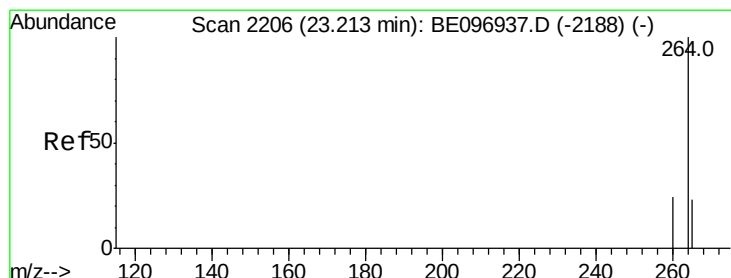
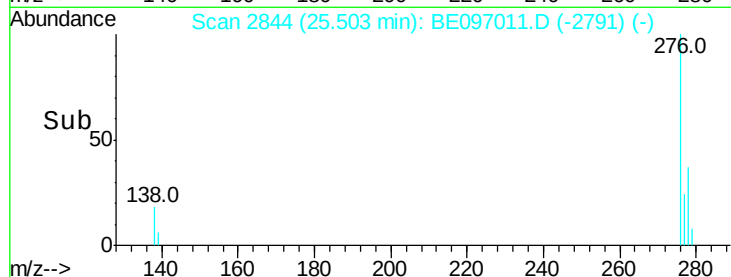
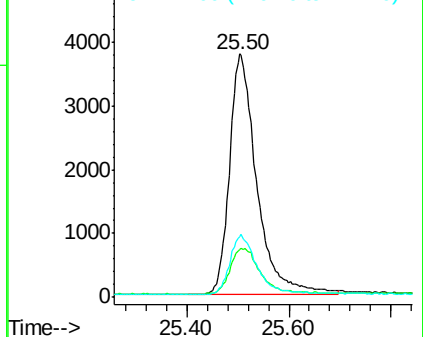
276 100

138 20.7 22.5 33.7#

277 24.2 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: 23.21 min Scan# 2205

Delta R.T. -0.00 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

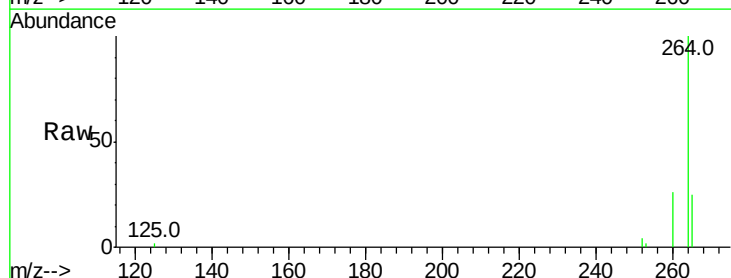
Tgt Ion:264 Resp: 11218

Ion Ratio Lower Upper

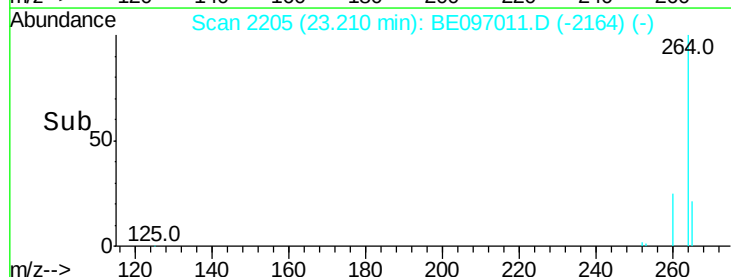
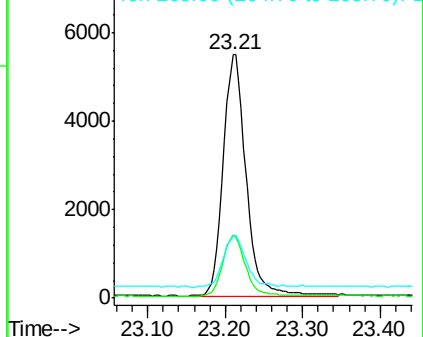
264 100

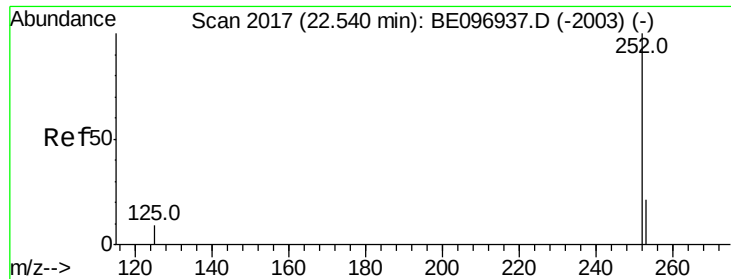
260 25.7 20.5 30.7

265 25.3 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: 0.457 ng

RT: 22.54 min Scan# 2016

Delta R.T. -0.00 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

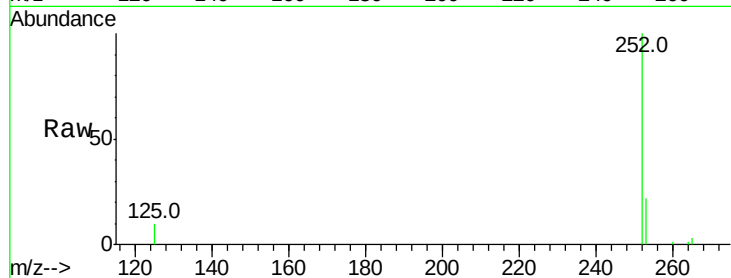
Tot Ion:252 Resp: 13085

Ion Ratio Lower Upper

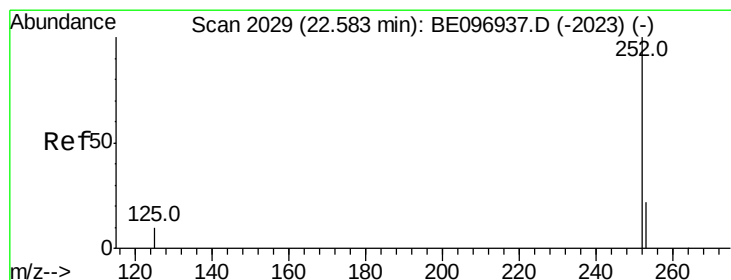
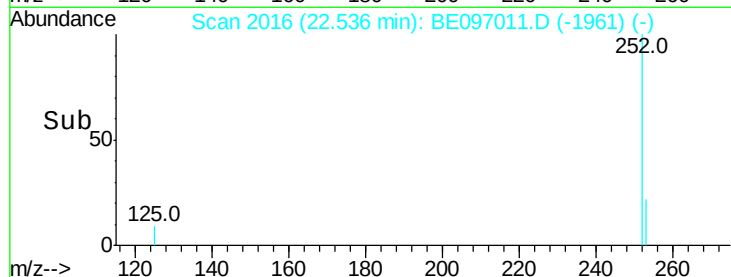
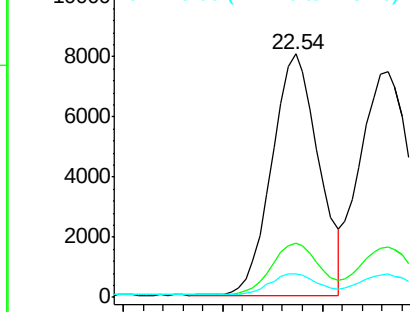
252 100

253 22.4 20.0 30.0

125 9.8 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: 0.419 ng

RT: 22.58 min Scan# 2029

Delta R.T. 0.00 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

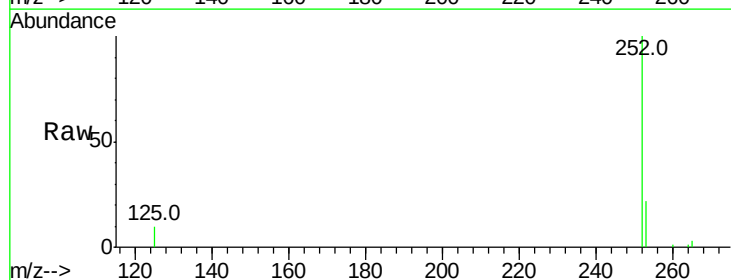
Tgt Ion:252 Resp: 14253

Ion Ratio Lower Upper

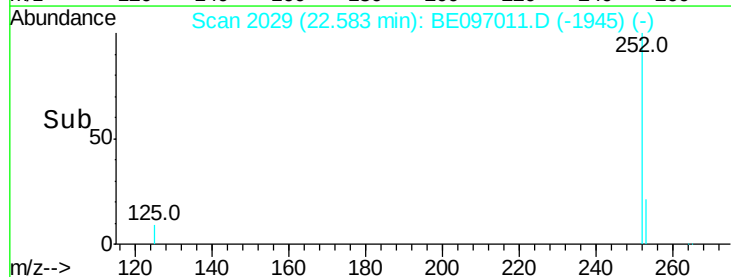
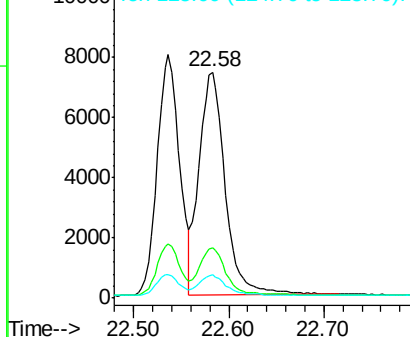
252 100

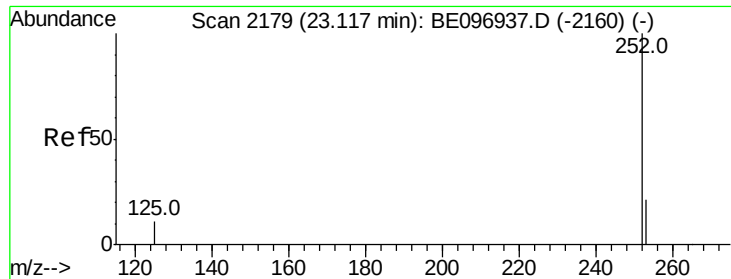
253 22.3 16.0 24.0

125 10.4 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: 0.451 ng

RT: 23.11 min Scan# 2177

Delta R.T. -0.01 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

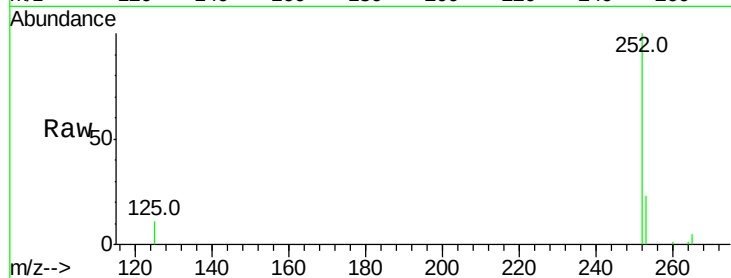
Tot Ion:252 Resp: 11401

Ion Ratio Lower Upper

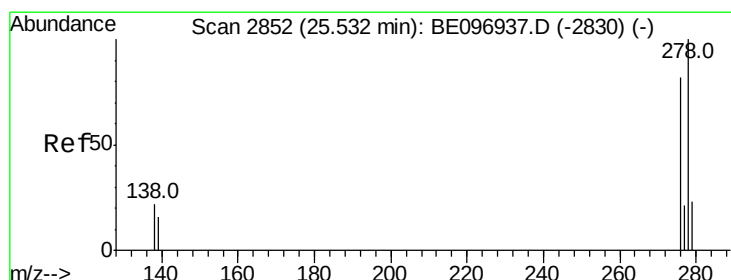
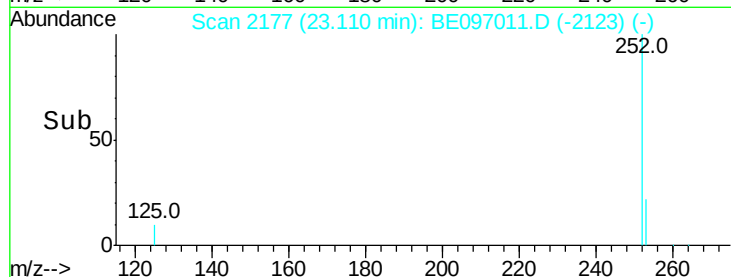
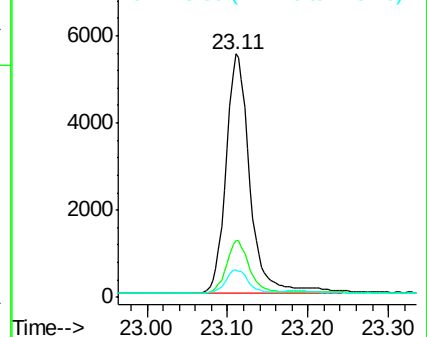
252 100

253 23.5 16.0 24.0

125 11.4 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: 0.529 ng

RT: 25.53 min Scan# 2851

Delta R.T. -0.00 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

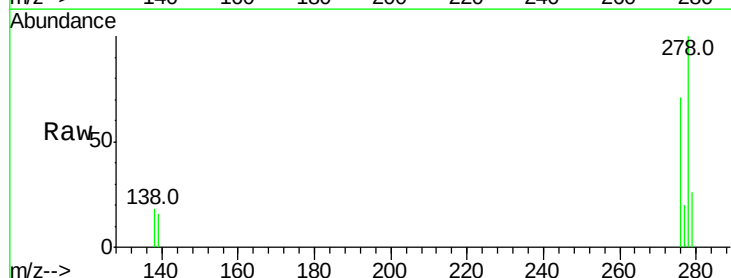
Tgt Ion:278 Resp: 11501

Ion Ratio Lower Upper

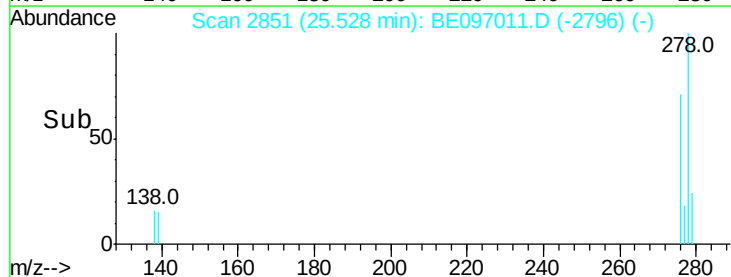
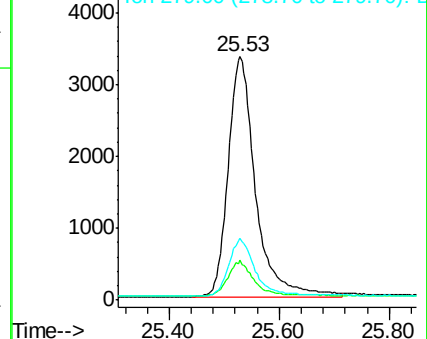
278 100

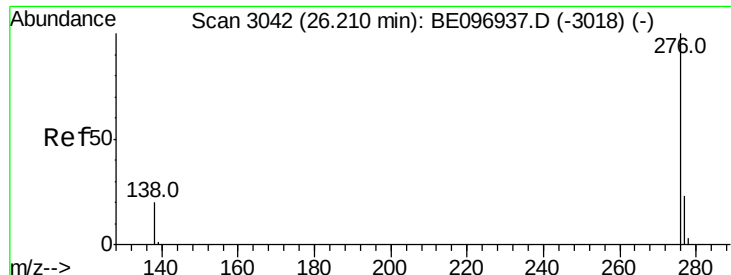
139 16.3 16.0 24.0

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: 0.490 ng

RT: 26.20 min Scan# 3040

Delta R.T. -0.01 min

Lab File: BE097011.D

Acq: 19 Jul 2018 18:55

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

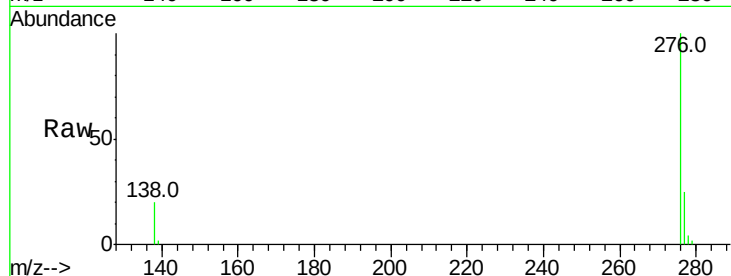
Tot Ion:276 Resp: 11416

Ion Ratio Lower Upper

276 100

277 24.5 16.0 24.0#

138 20.0 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

