

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE092118\
 Data File : BE097619.D
 Acq On : 21 Sep 2018 19:43
 Operator : SJ/JU
 Sample : PB112884BSD
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Sep 22 04:09:04 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE091918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 20 10:54:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.38	152	1135	0.40	ng	0.00
7) Naphthalene-d8	10.13	136	4751	0.40	ng	0.00
13) Acenaphthene-d10	14.00	164	2287	0.40	ng	0.00
19) Phenanthrene-d10	16.77	188	5319	0.40	ng	0.01
27) Chrysene-d12	20.97	240	7016	0.40	ng	0.00
34) Perylene-d12	23.21	264	7596	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.06	112	1166	0.34	ng	0.01
5) Phenol-d6	6.62	99	1337	0.31	ng	0.01
8) Nitrobenzene-d5	8.53	82	1361	0.37	ng	0.00
11) 2-Methylnaphthalene-d10	11.72	152	3294	0.50	ng	0.00
14) 2,4,6-Tribromophenol	15.53	330	191	0.27	ng	0.01
15) 2-Fluorobiphenyl	12.62	172	3738	0.46	ng	0.00
25) Fluoranthene-d10	18.80	212	24273	0.36	ng	0.00
29) Terphenyl-d14	19.42	244	4230	0.33	ng	0.00

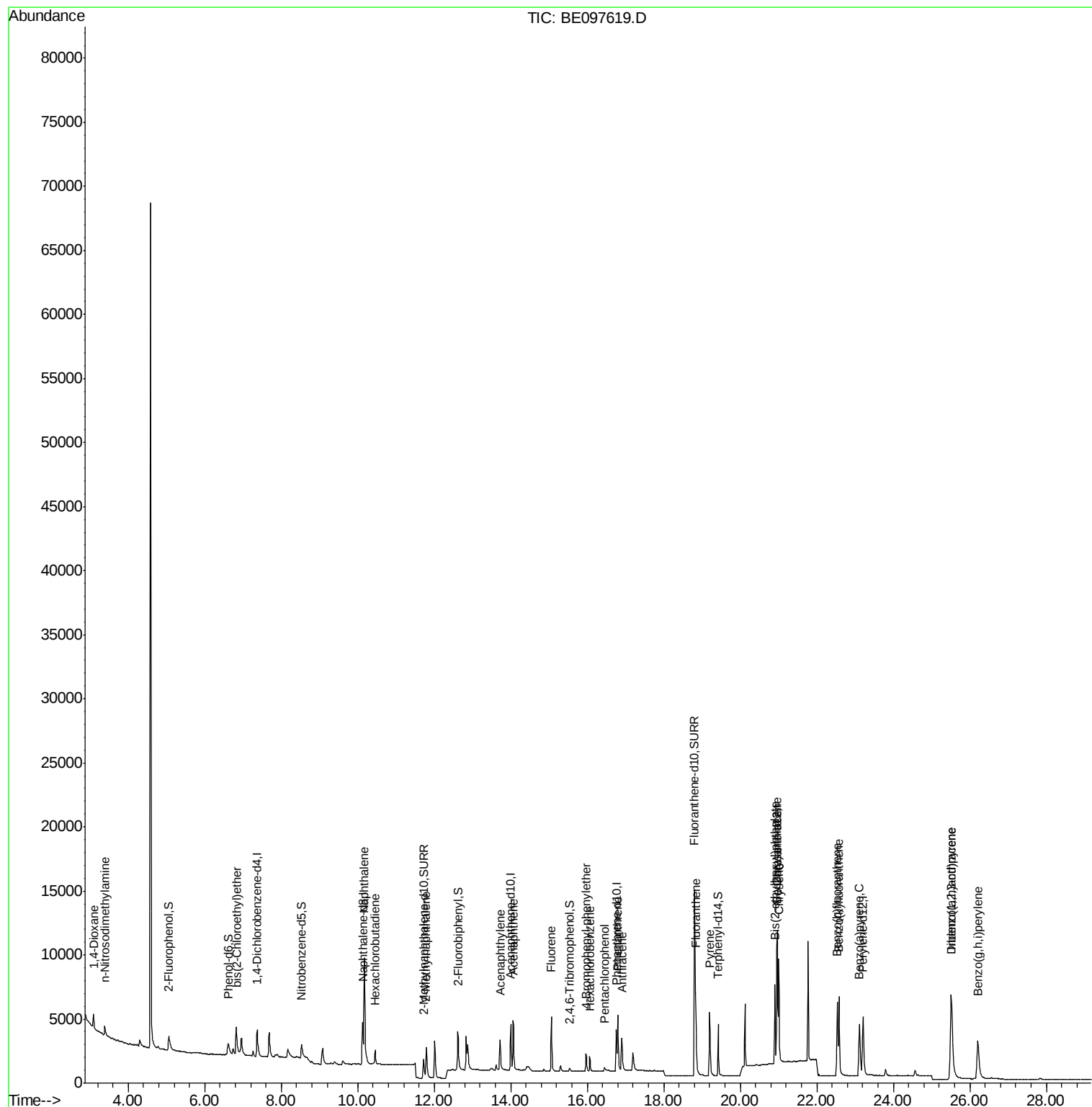
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.09	88	635	0.319	ng	# 71
3) n-Nitrosodimethylamine	3.38	42	624	0.379	ng	# 95
6) bis(2-Chloroethyl)ether	6.84	93	1272	0.315	ng	# 83
9) Naphthalene	10.17	128	17544	0.410	ng	# 100
10) Hexachlorobutadiene	10.46	225	750	0.380	ng	# 95
12) 2-Methylnaphthalene	11.80	142	2608	0.391	ng	# 99
16) Acenaphthylene	13.73	152	3390	0.375	ng	# 99
17) Acenaphthene	14.06	154	2312	0.381	ng	# 96
18) Fluorene	15.06	166	2967	0.375	ng	# 80
20) 4-Bromophenyl-phenylether	15.96	248	896	0.374	ng	# 81
21) Hexachlorobenzene	16.07	284	1080	0.410	ng	# 85
22) Pentachlorophenol	16.45	266	281	0.367	ng	# 81
23) Phenanthrene	16.80	178	4936	0.391	ng	# 99
24) Anthracene	16.91	178	4161	0.373	ng	# 96
26) Fluoranthene	18.84	202	5912	0.337	ng	# 98
28) Pyrene	19.20	202	5966	0.374	ng	# 100
30) Benzo(a)anthracene	20.95	228	6649	0.376	ng	# 96
31) Chrysene	21.00	228	7924	0.418	ng	# 99
32) Bis(2-ethylhexyl)phthalate	20.91	149	6842	0.241	ng	# 100
33) Indeno(1,2,3-cd)pyrene	25.51	276	10687	0.468	ng	# 94
35) Benzo(b)fluoranthene	22.53	252	7861	0.404	ng	# 89
36) Benzo(k)fluoranthene	22.58	252	9442	0.425	ng	# 94
37) Benzo(a)pyrene	23.11	252	8073	0.427	ng	# 92
38) Dibenzo(a,h)anthracene	25.53	278	8782	0.430	ng	# 95
39) Benzo(g,h,i)perylene	26.21	276	8638	0.435	ng	# 90

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

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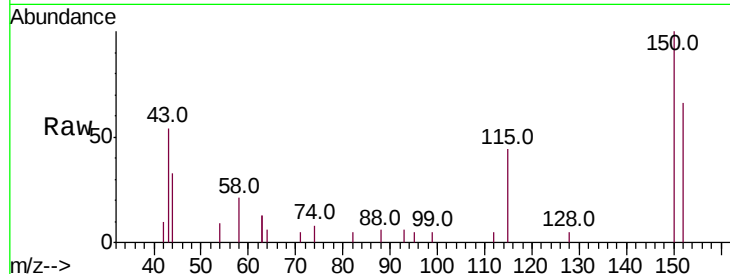


#1

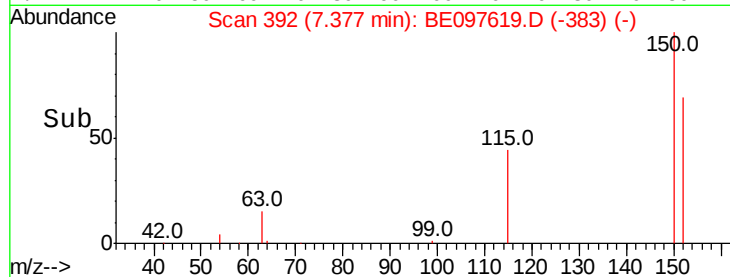
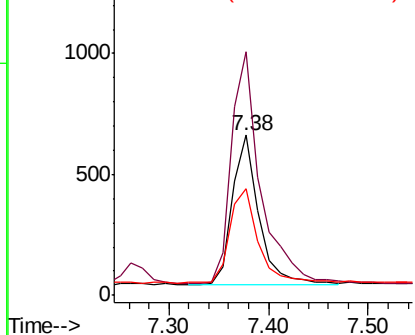
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.38 min Scan# 392
Delta R.T. -0.00 min
Lab File: BE097619.D
Acq: 21 Sep 2018 19:43

Instrument :
BNA_E
ClientSampled :

Tot Ion:152 Resp: 1135
Ion Ratio Lower Upper
152 100
150 152.1 117.2 175.8
115 66.9 57.0 85.6



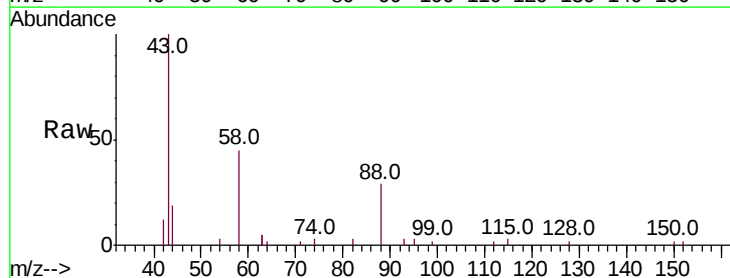
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



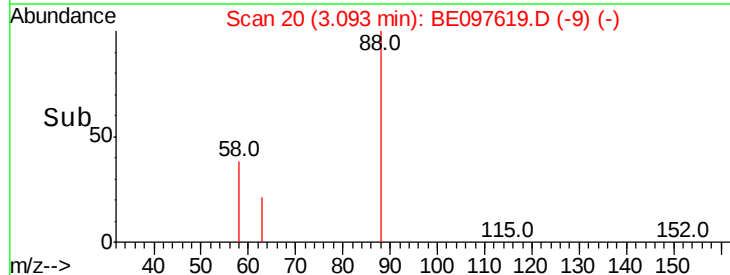
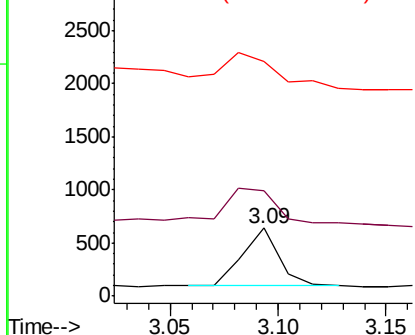
#2

1,4-Dioxane
Concen: 0.319 ng
RT: 3.09 min Scan# 20
Delta R.T. 0.02 min
Lab File: BE097619.D
Acq: 21 Sep 2018 19:43

Tgt Ion: 88 Resp: 635
Ion Ratio Lower Upper
88 100
58 85.7 63.2 94.8
43 95.1 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

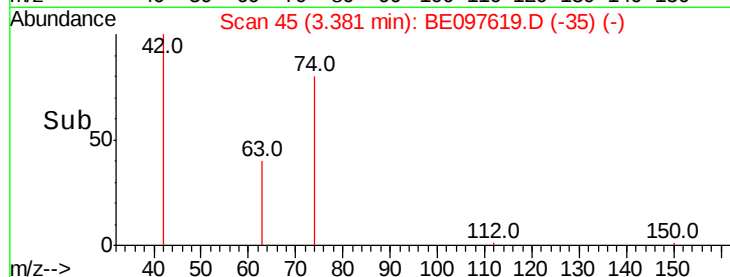
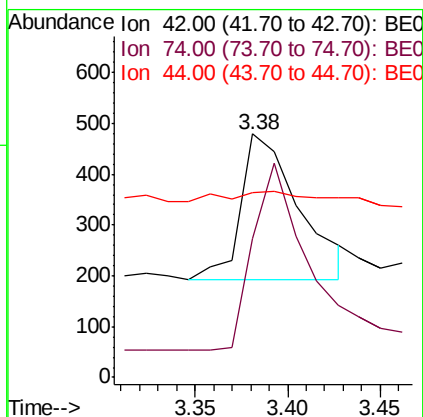
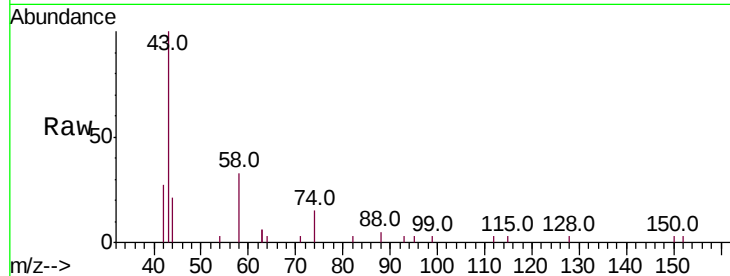




#3
n-Nitrosodimethylamine
Concen: 0.379 ng
RT: 3.38 min Scan# 45
Delta R.T. 0.01 min
Lab File: BE097619.D
Acq: 21 Sep 2018 19:43

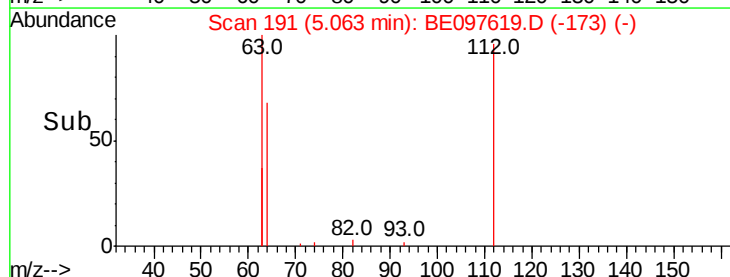
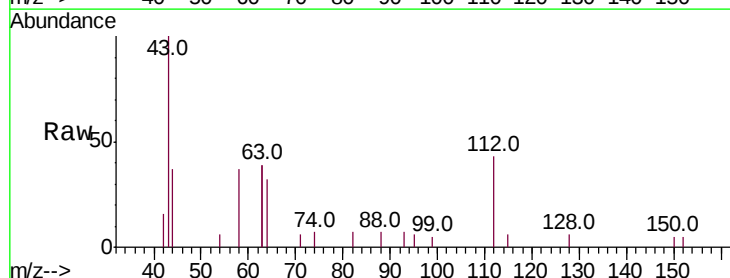
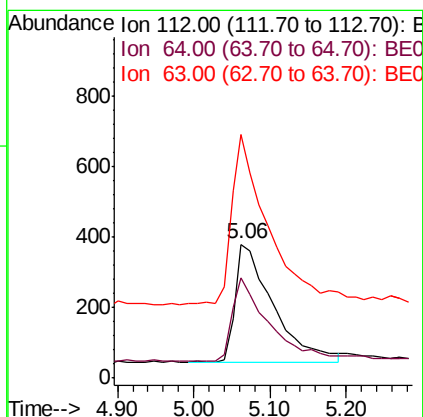
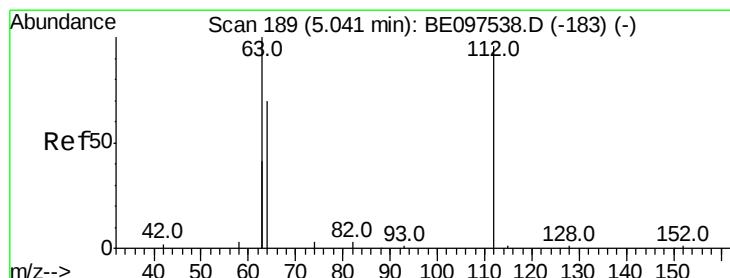
Instrument :
BNA_E
ClientSampleId :

Tot Ion: 42 Resp: 624
Ion Ratio Lower Upper
42 100
74 116.2 96.0 144.0
44 9.5 12.0 18.0#



#4
2-Fluorophenol
Concen: 0.343 ng
RT: 5.06 min Scan# 191
Delta R.T. 0.01 min
Lab File: BE097619.D
Acq: 21 Sep 2018 19:43

Tgt Ion: 112 Resp: 1166
Ion Ratio Lower Upper
112 100
64 67.5 60.1 90.1
63 140.1 116.8 175.2





#5

Phenol-d6

Concen: 0.307 ng

RT: 6.62 min Scan# 326

Delta R.T. 0.01 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

Instrument :

BNA_E

ClientSampleId :

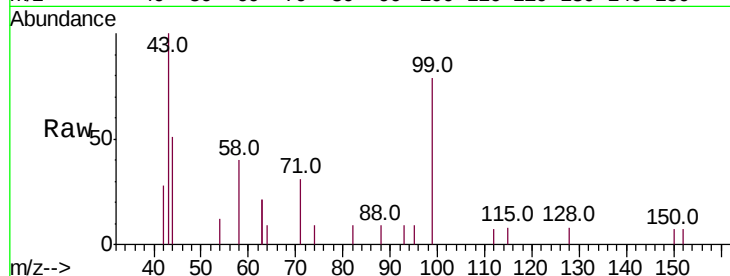
Tot Ion: 99 Resp: 1337

Ion Ratio Lower Upper

99 100

42 20.3 20.2 30.2

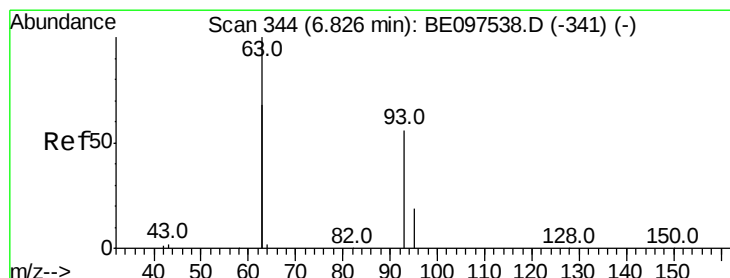
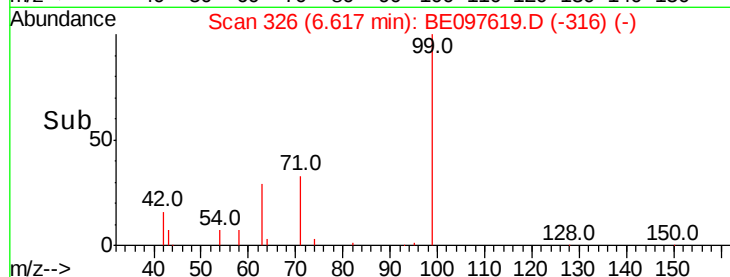
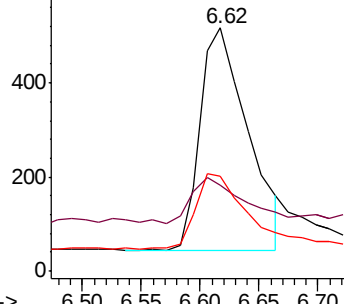
71 34.7 28.4 42.6



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: 0.315 ng

RT: 6.84 min Scan# 345

Delta R.T. 0.01 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

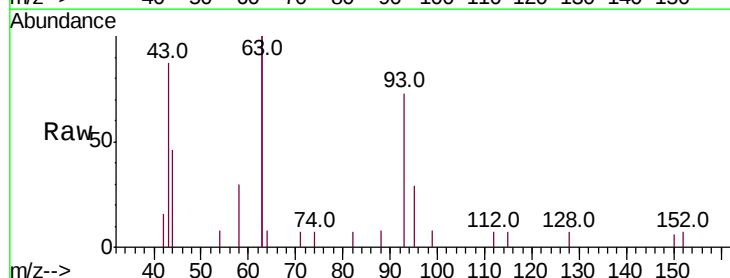
Tgt Ion: 93 Resp: 1272

Ion Ratio Lower Upper

93 100

63 305.6 275.3 412.9

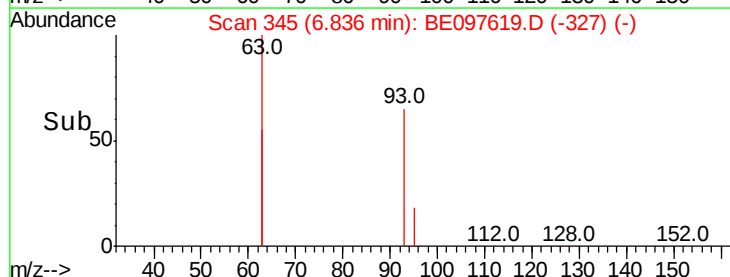
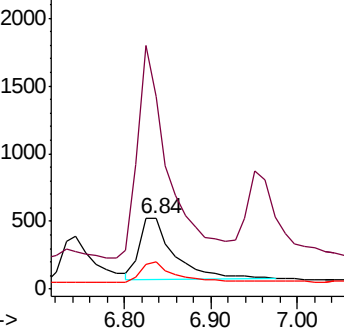
95 34.0 25.2 37.8



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: BE097619.D

Acq: 21 Sep 2018 19:43

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 4751

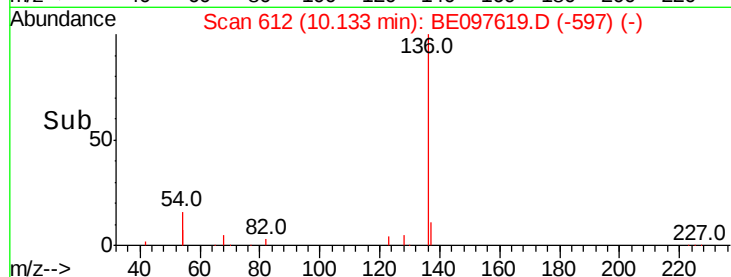
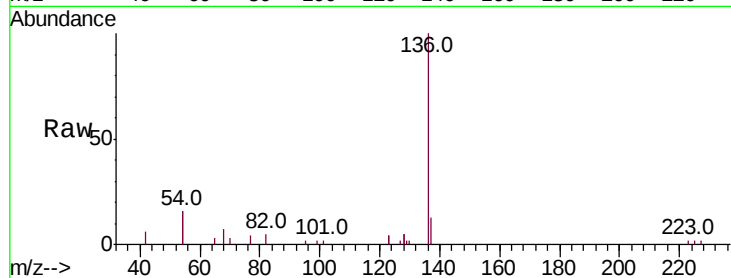
Ion Ratio Lower Upper

136 100

137 13.0 9.5 14.3

54 31.7 29.1 43.7

68 7.3 6.2 9.2

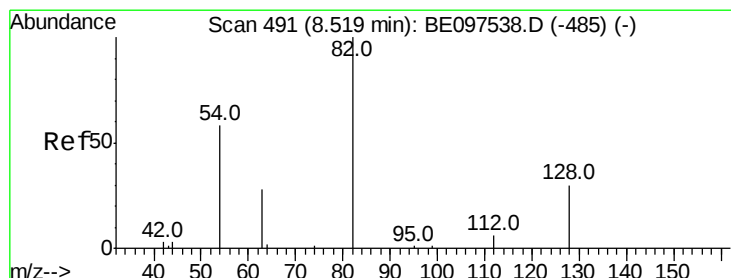
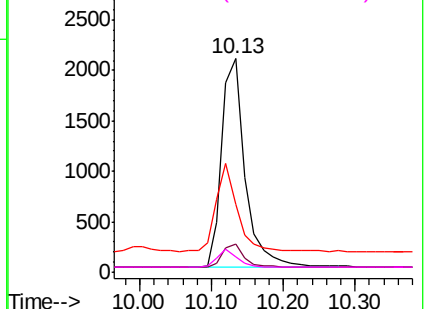


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.371 ng

RT: 8.53 min Scan# 492

Delta R.T. -0.00 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

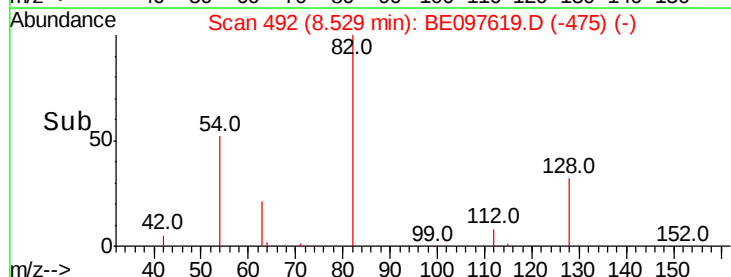
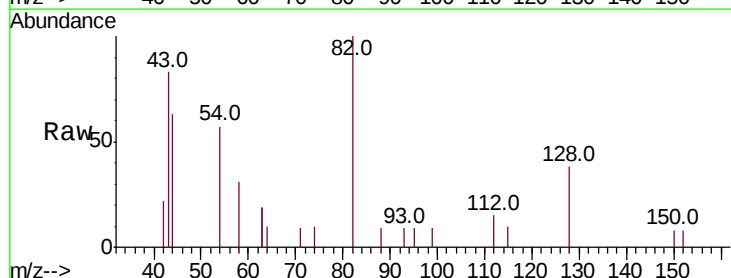
Tgt Ion: 82 Resp: 1361

Ion Ratio Lower Upper

82 100

128 37.8 24.0 36.0#

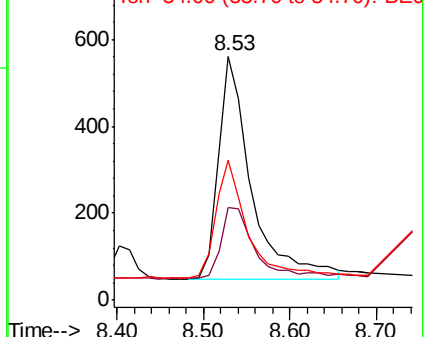
54 57.2 40.0 60.0



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: 0.410 ng

RT: 10.17 min Scan# 615

Delta R.T. -0.00 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

Instrument :

BNA_E

ClientSampleId :

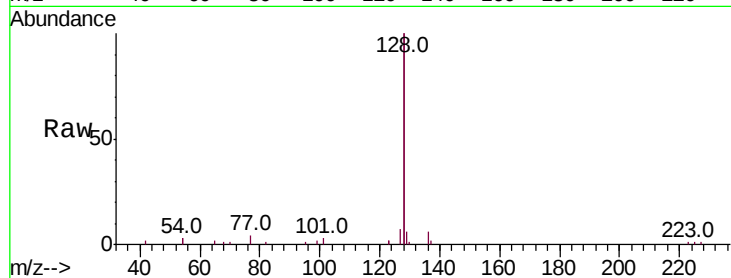
Tot Ion:128 Resp: 17544

Ion Ratio Lower Upper

128 100

129 3.2 2.6 3.8

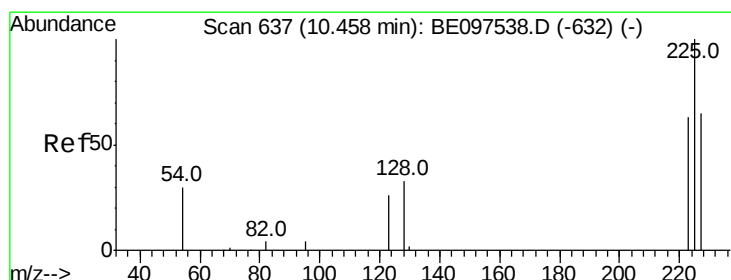
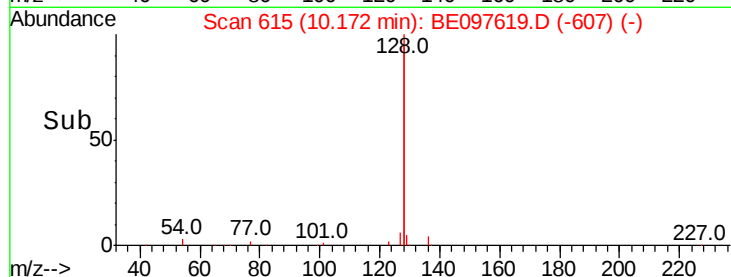
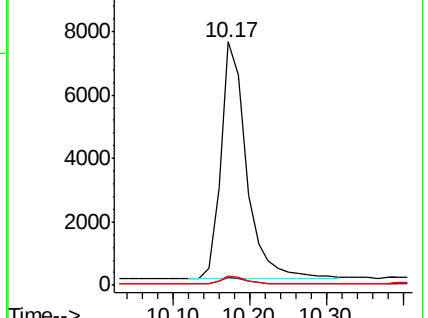
127 3.7 2.8 4.2



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: 0.380 ng

RT: 10.46 min Scan# 637

Delta R.T. -0.00 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

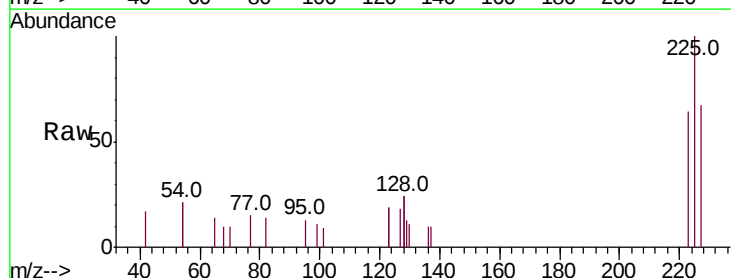
Tgt Ion:225 Resp: 750

Ion Ratio Lower Upper

225 100

223 61.5 53.0 79.6

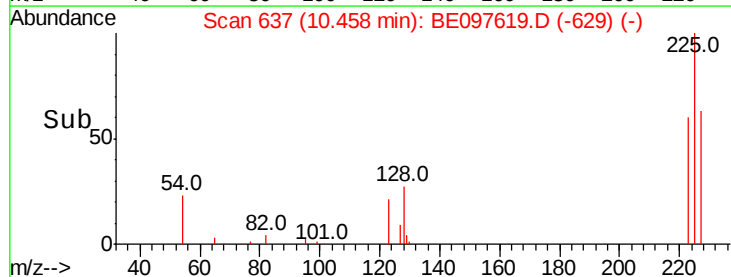
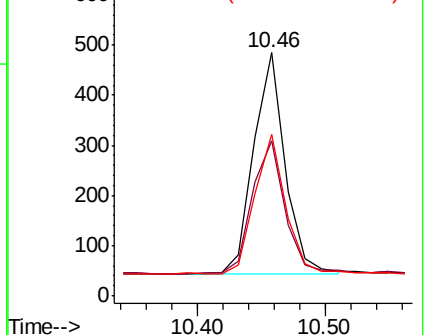
227 61.5 51.4 77.2



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

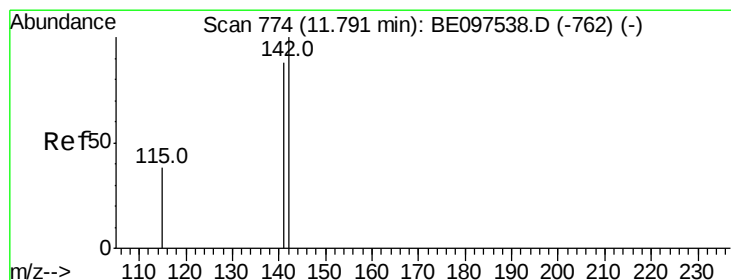
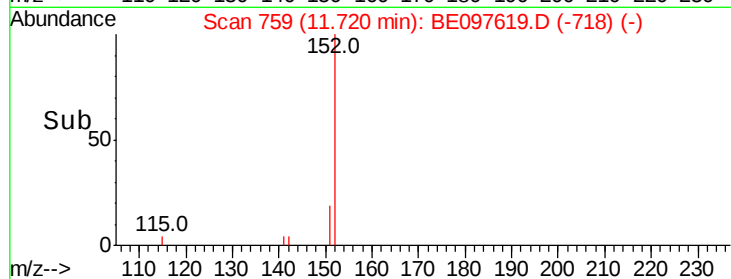
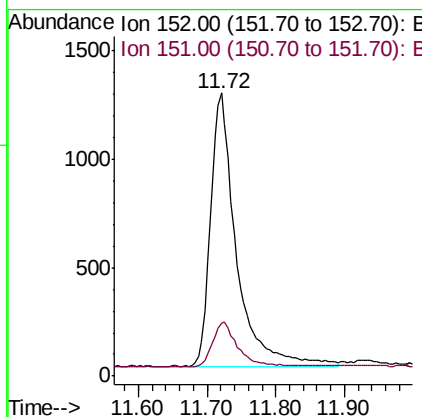
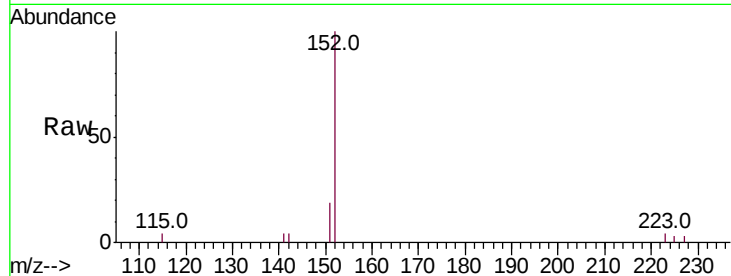




#11
 2-Methylnaphthalene-d10
 Concen: 0.503 ng
 RT: 11.72 min Scan# 759
 Delta R.T. 0.00 min
 Lab File: BE097619.D
 Acq: 21 Sep 2018 19:43

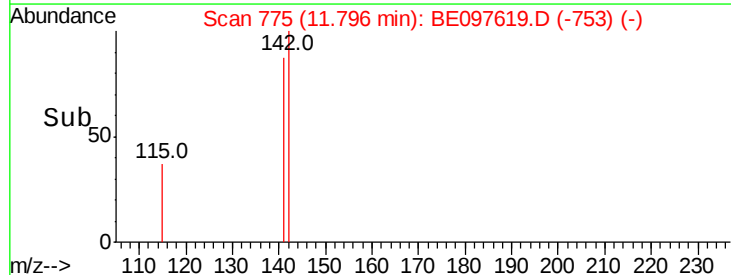
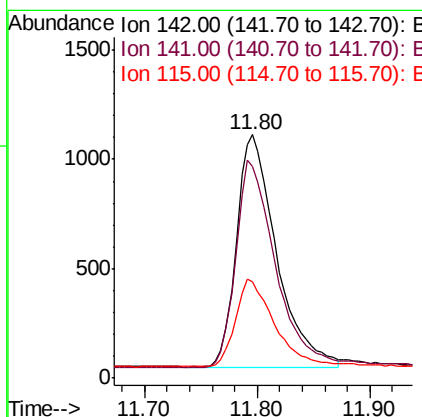
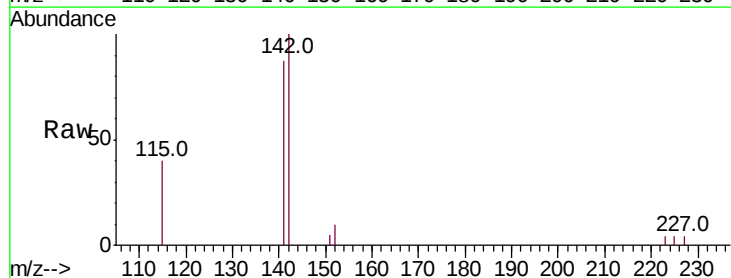
Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:152 Resp: 3294
 Ion Ratio Lower Upper
 152 100
 151 15.4 15.4 23.0



#12
 2-Methylnaphthalene
 Concen: 0.391 ng
 RT: 11.80 min Scan# 775
 Delta R.T. 0.00 min
 Lab File: BE097619.D
 Acq: 21 Sep 2018 19:43

Tgt Ion:142 Resp: 2608
 Ion Ratio Lower Upper
 142 100
 141 87.2 70.4 105.6
 115 39.7 31.7 47.5

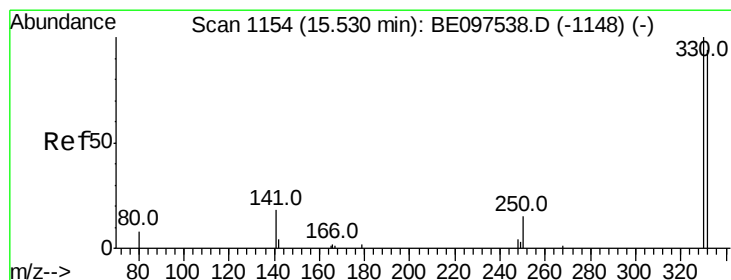
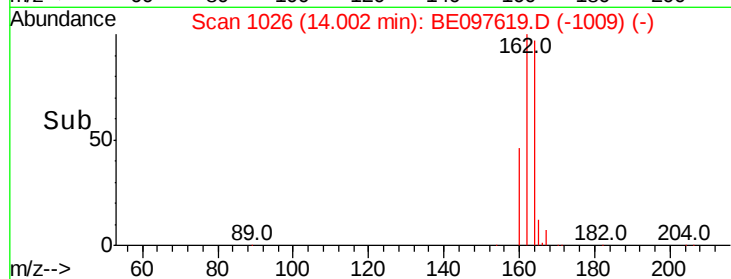
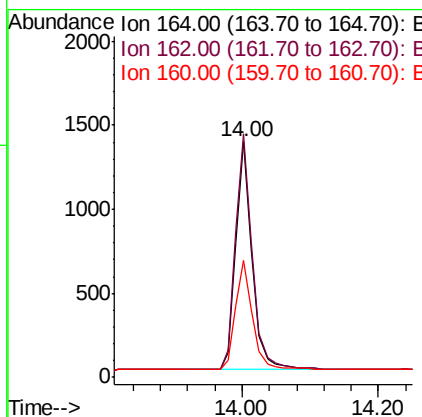
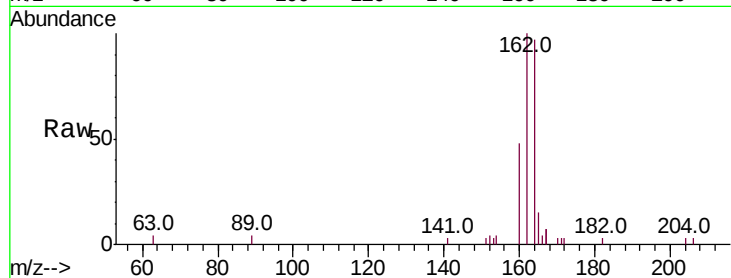




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.00 min Scan# 1026
 Delta R.T. -0.00 min
 Lab File: BE097619.D
 Acq: 21 Sep 2018 19:43

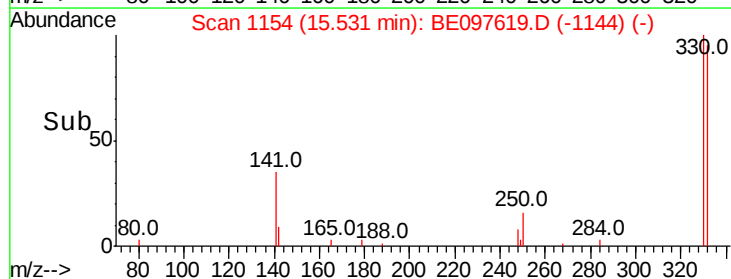
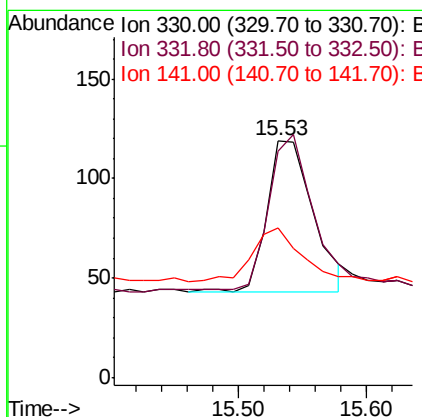
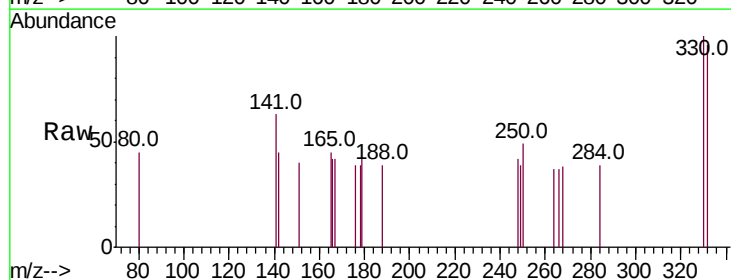
Instrument :
 BNA_E
 ClientSampleId :

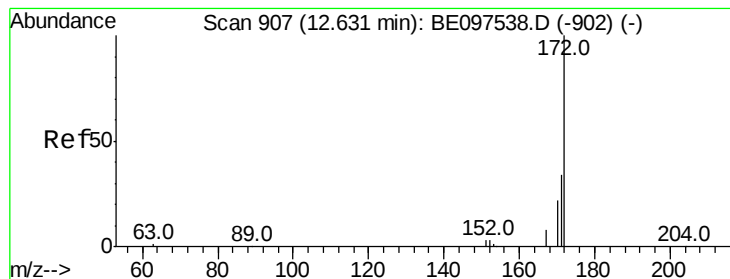
Tot Ion:164 Resp: 2287
 Ion Ratio Lower Upper
 164 100
 162 103.4 83.1 124.7
 160 49.8 37.1 55.7



#14
 2,4,6-Tribromophenol
 Concen: 0.269 ng
 RT: 15.53 min Scan# 1154
 Delta R.T. 0.01 min
 Lab File: BE097619.D
 Acq: 21 Sep 2018 19:43

Tgt Ion:330 Resp: 191
 Ion Ratio Lower Upper
 330 100
 332 97.4 152.7 229.1#
 141 38.2 33.7 50.5





#15

2-Fluorobiphenyl

Concen: 0.463 ng

RT: 12.62 min Scan# 906

Delta R.T. -0.00 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

Instrument :

BNA_E

ClientSampleId :

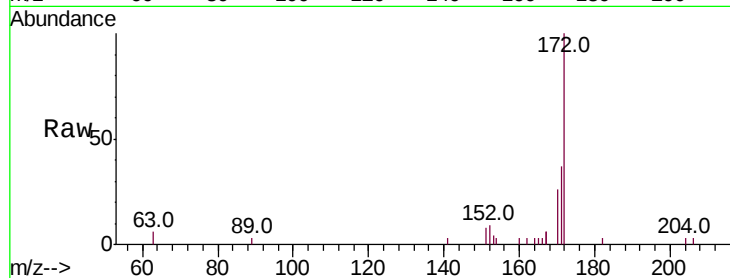
Tot Ion:172 Resp: 3738

Ion Ratio Lower Upper

172 100

171 37.1 29.9 44.9

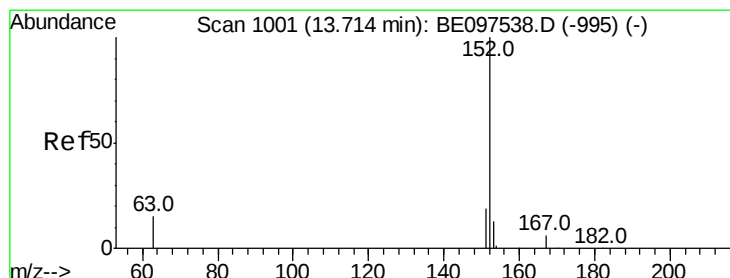
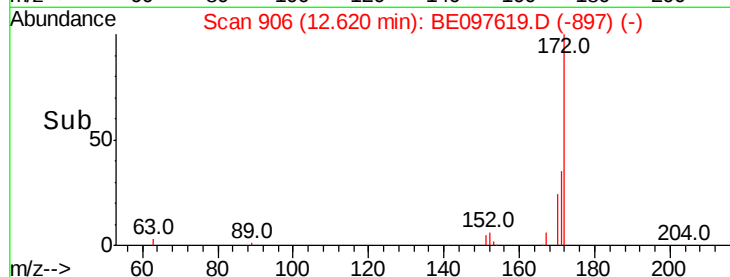
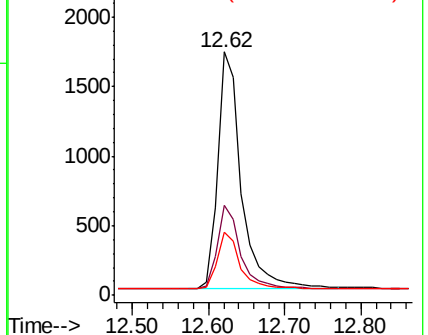
170 26.1 21.8 32.8



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: 0.375 ng

RT: 13.73 min Scan# 1002

Delta R.T. 0.01 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

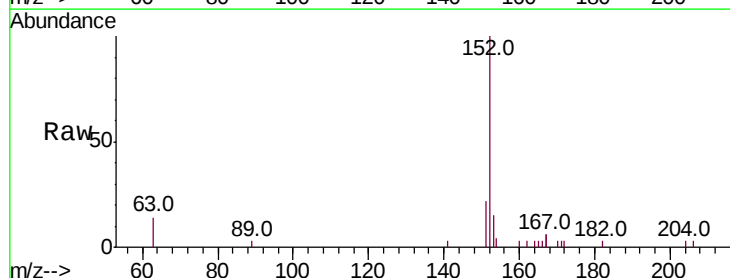
Tgt Ion:152 Resp: 3390

Ion Ratio Lower Upper

152 100

151 19.9 15.7 23.5

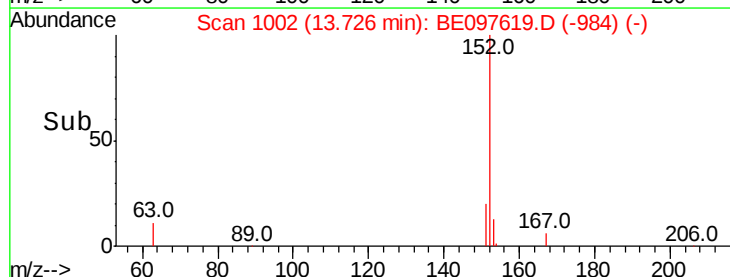
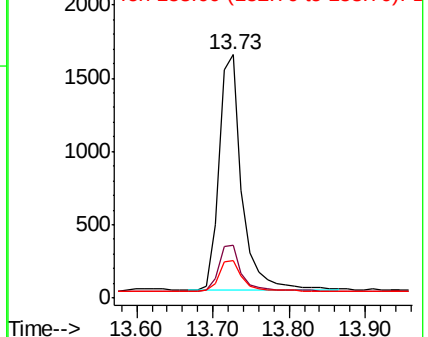
153 12.9 10.5 15.7



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: 0.381 ng

RT: 14.06 min Scan# 1031

Delta R.T. -0.00 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

Instrument :

BNA_E

ClientSampleId :

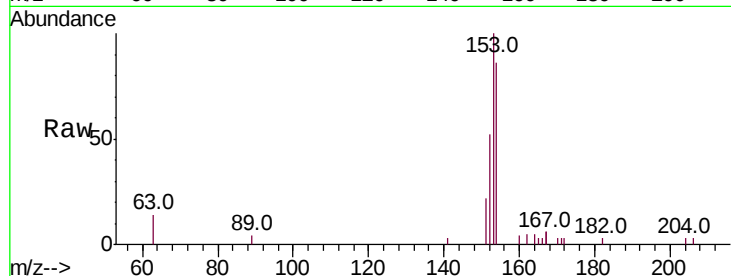
Tot Ion:154 Resp: 2312

Ion Ratio Lower Upper

154 100

153 114.5 89.2 133.8

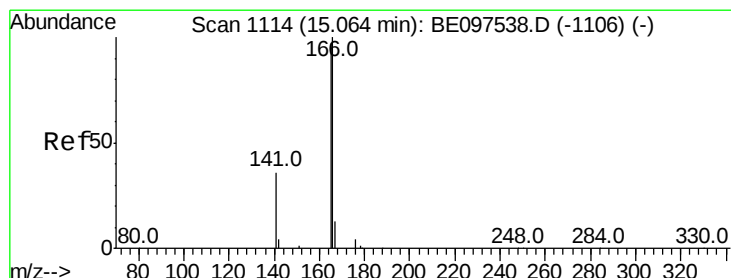
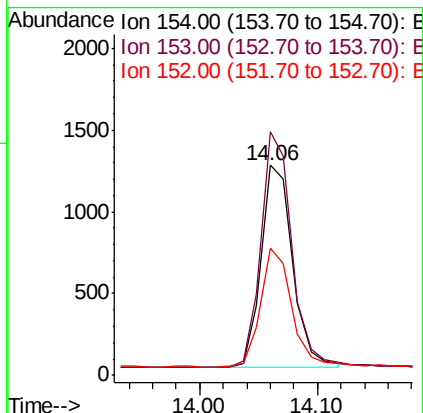
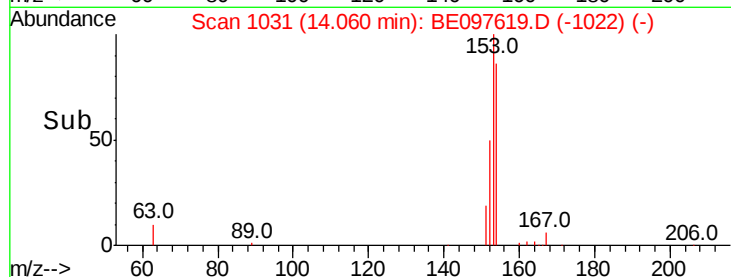
152 57.3 42.0 63.0



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: 0.375 ng

RT: 15.06 min Scan# 1114

Delta R.T. -0.00 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

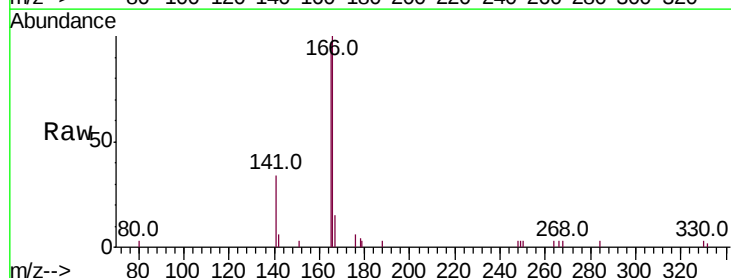
Tgt Ion:166 Resp: 2967

Ion Ratio Lower Upper

166 100

165 97.3 77.8 116.6

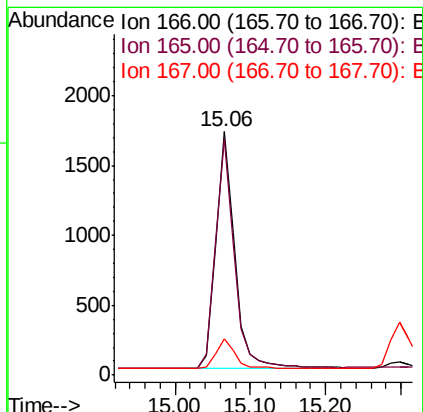
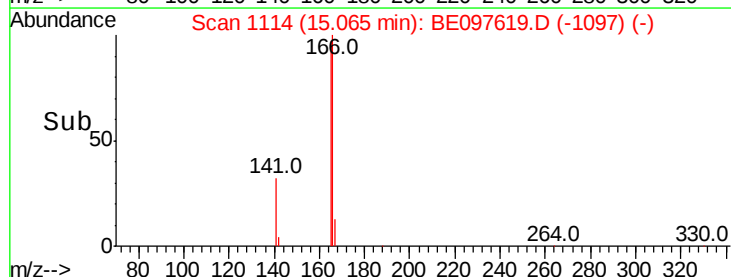
167 13.5 42.4 63.6#



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. 0.01 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

Instrument :

BNA_E

ClientSampleId :

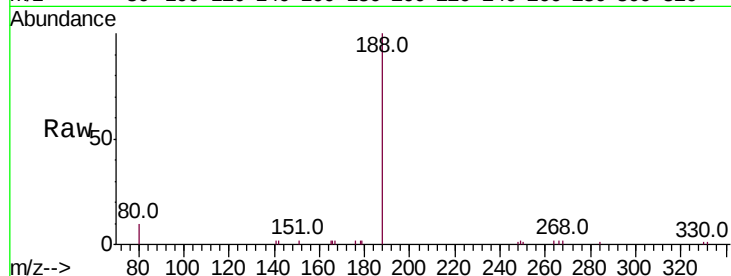
Tot Ion:188 Resp: 5319

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

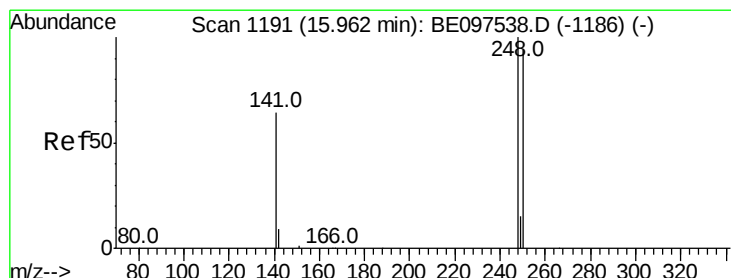
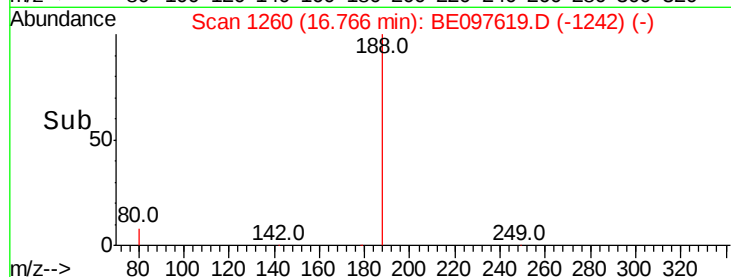
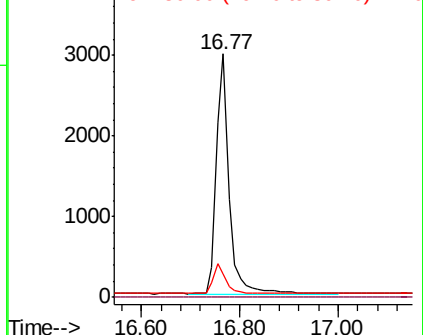
80 9.8 3.6 5.4#



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: 0.374 ng

RT: 15.96 min Scan# 1191

Delta R.T. -0.00 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

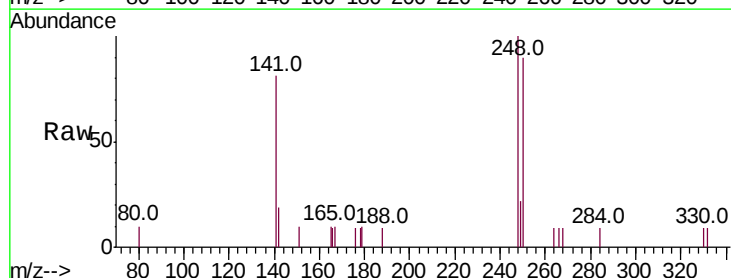
Tgt Ion:248 Resp: 896

Ion Ratio Lower Upper

248 100

250 90.4 62.7 94.1

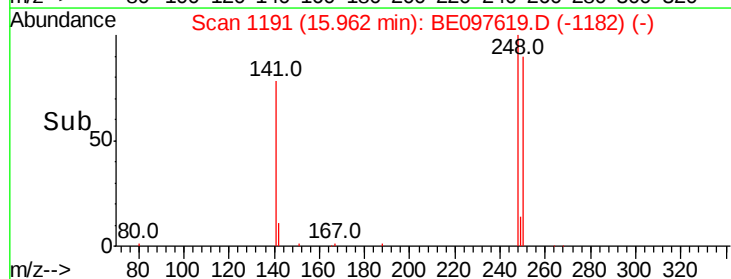
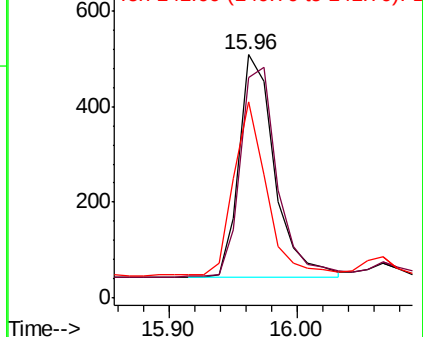
141 80.5 48.2 72.2#



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

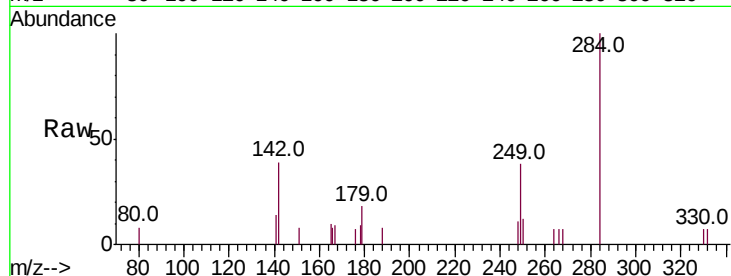




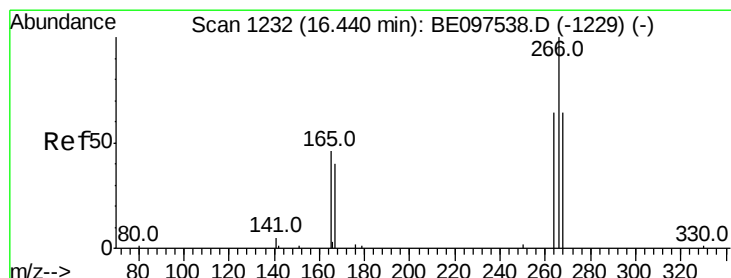
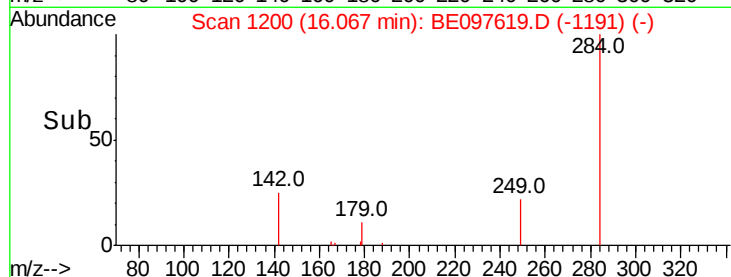
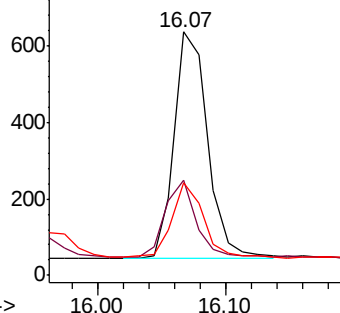
#21
Hexachlorobenzene
Concen: 0.410 ng
RT: 16.07 min Scan# 1200
Delta R.T. -0.00 min
Lab File: BE097619.D
Acq: 21 Sep 2018 19:43

Instrument :
BNA_E
ClientSampleId :

Tot Ion:284 Resp: 1080
Ion Ratio Lower Upper
284 100
142 30.9 22.1 33.1
249 30.2 34.8 52.2#

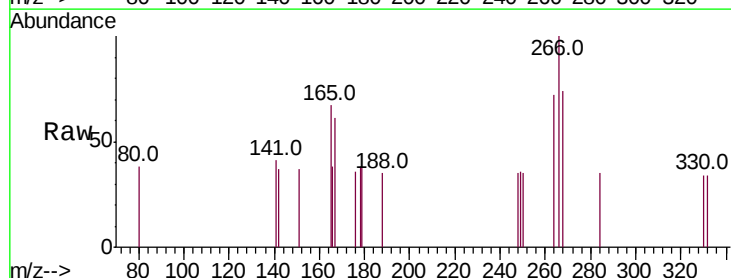


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

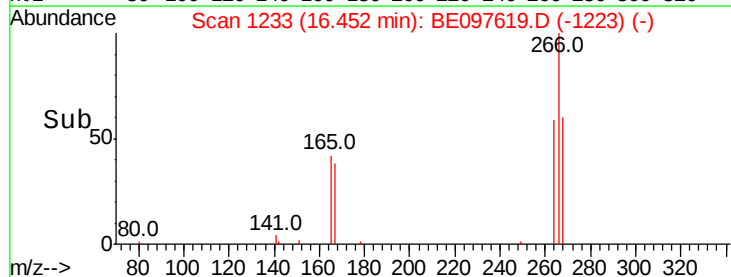
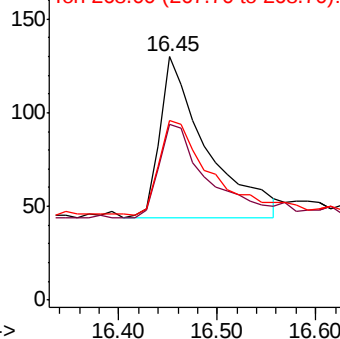


#22
Pentachlorophenol
Concen: 0.367 ng
RT: 16.45 min Scan# 1233
Delta R.T. 0.01 min
Lab File: BE097619.D
Acq: 21 Sep 2018 19:43

Tgt Ion:266 Resp: 281
Ion Ratio Lower Upper
266 100
264 72.3 72.5 108.7#
268 73.8 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: 0.391 ng

RT: 16.80 min Scan# 1263

Delta R.T. -0.00 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

Instrument :

BNA_E

ClientSampleId :

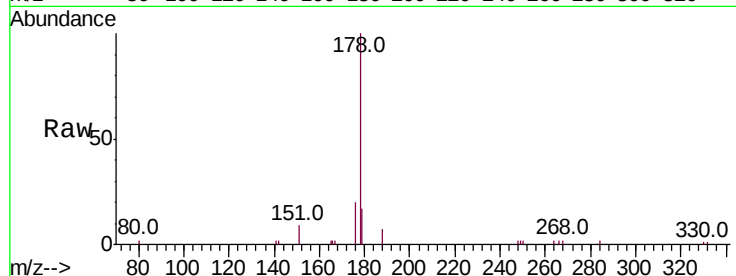
Tot Ion:178 Resp: 4936

Ion Ratio Lower Upper

178 100

176 19.0 15.1 22.7

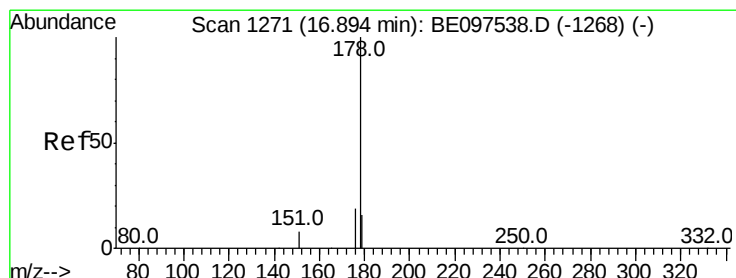
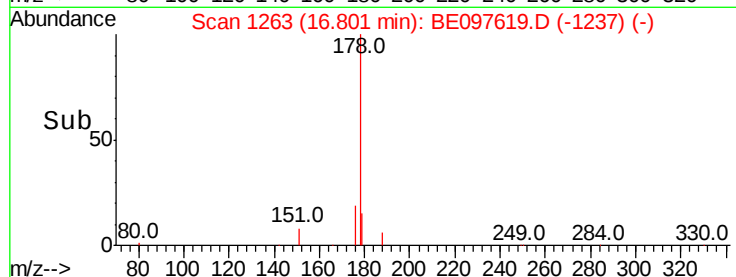
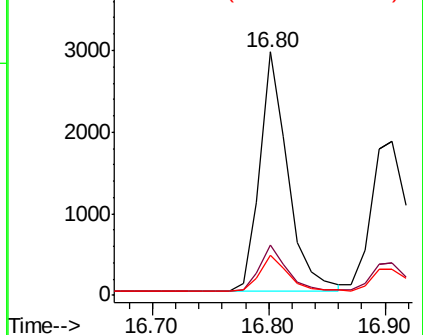
179 15.5 11.8 17.6



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: 0.373 ng

RT: 16.91 min Scan# 1272

Delta R.T. 0.01 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

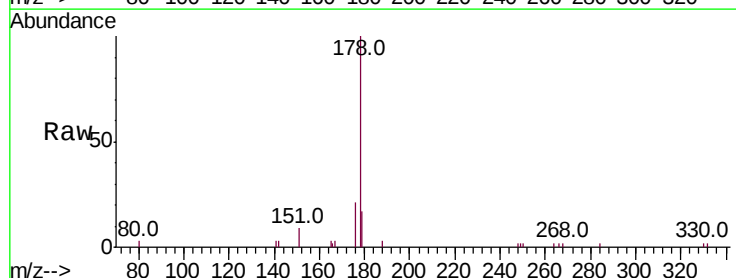
Tgt Ion:178 Resp: 4161

Ion Ratio Lower Upper

178 100

176 18.4 12.8 19.2

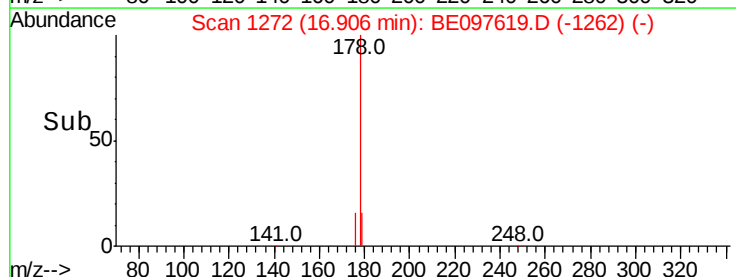
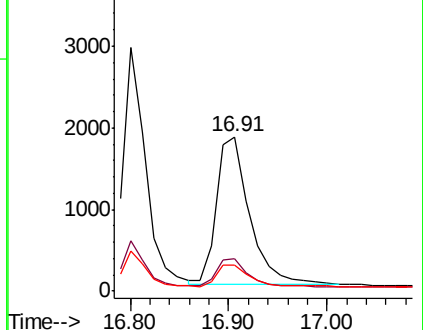
179 14.9 13.0 19.6



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: 0.356 ng

RT: 18.80 min Scan# 1500

Delta R.T. -0.00 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

Instrument :

BNA_E

ClientSampleId :

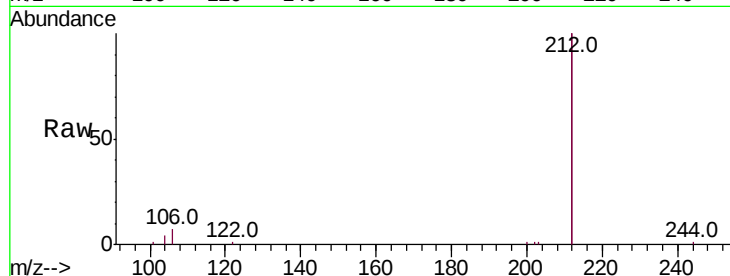
Tot Ion:212 Resp: 24273

Ion Ratio Lower Upper

212 100

106 3.2 2.8 4.2

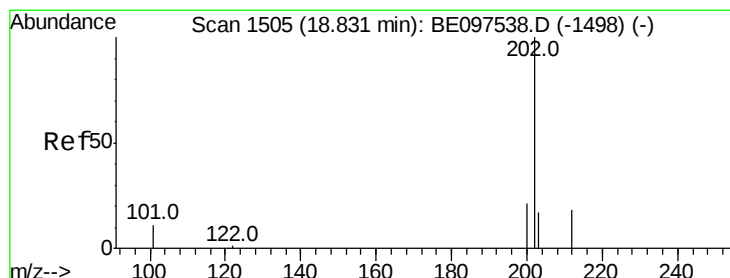
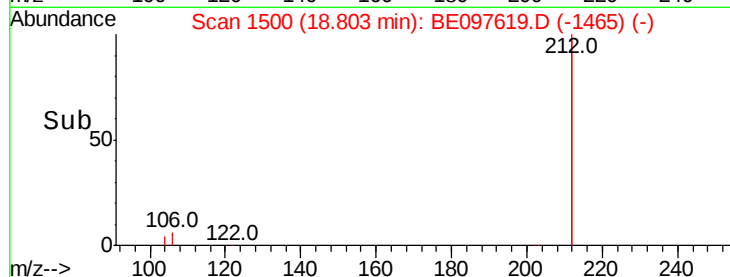
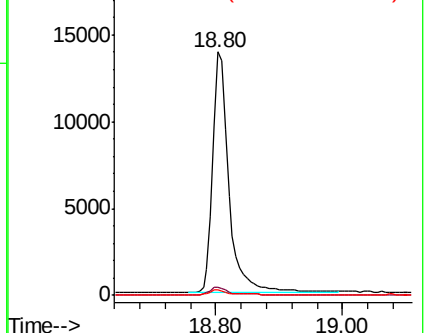
104 1.8 1.6 2.4



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: 0.337 ng

RT: 18.84 min Scan# 1506

Delta R.T. 0.01 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

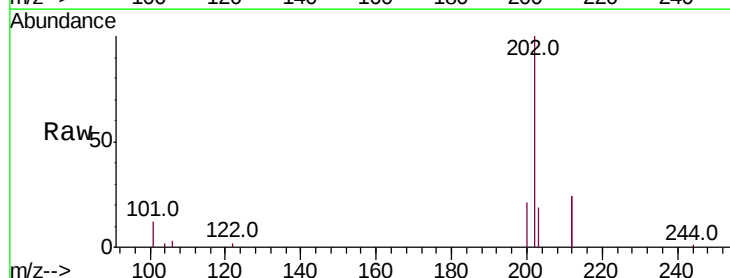
Tgt Ion:202 Resp: 5912

Ion Ratio Lower Upper

202 100

101 11.2 9.8 14.8

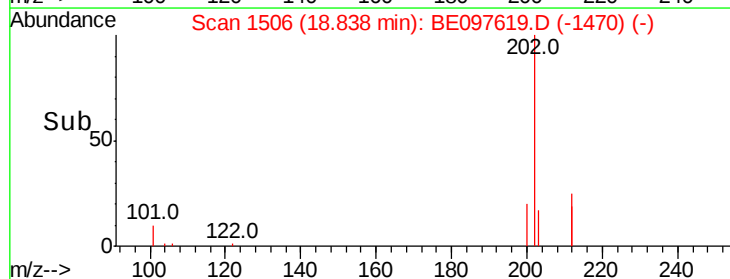
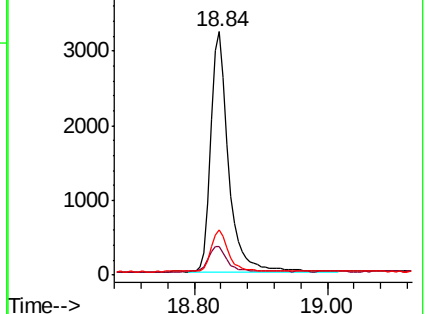
203 16.8 13.7 20.5



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

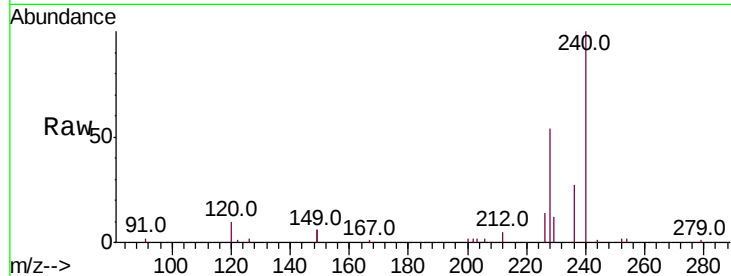




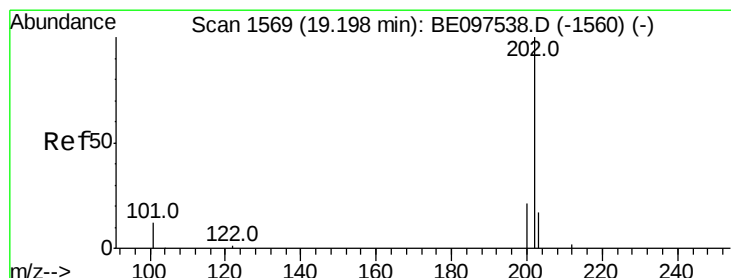
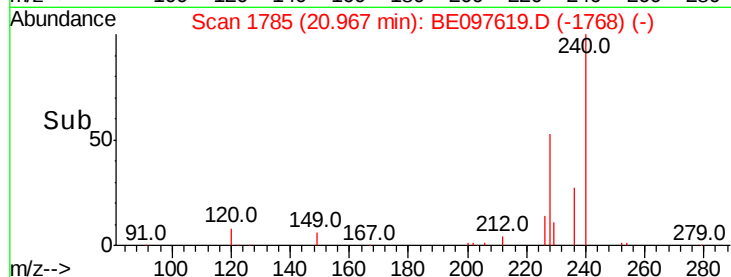
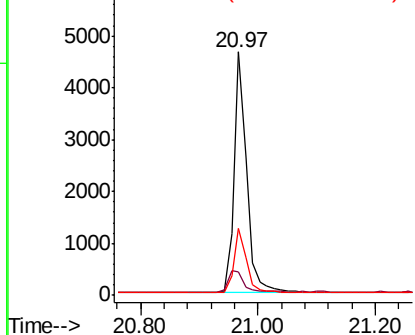
#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 20.97 min Scan# 1785
 Delta R.T. -0.00 min
 Lab File: BE097619.D
 Acq: 21 Sep 2018 19:43

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:240 Resp: 7016
 Ion Ratio Lower Upper
 240 100
 120 9.6 5.5 8.3#
 236 27.4 20.7 31.1

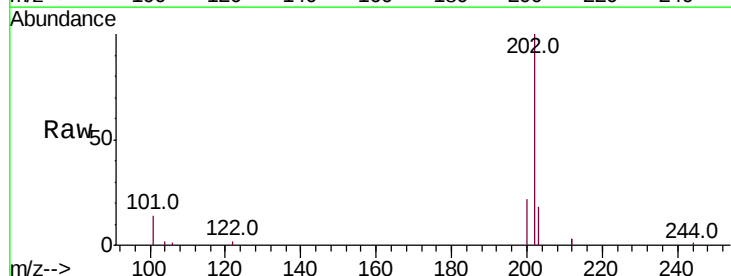


Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E

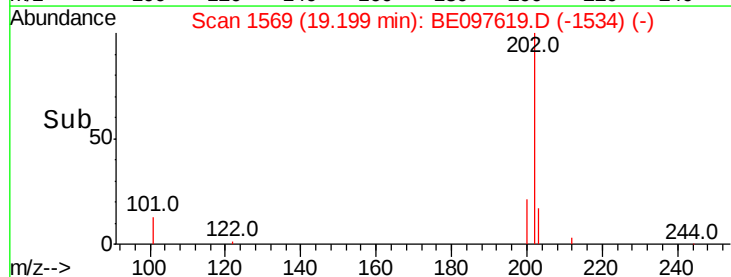
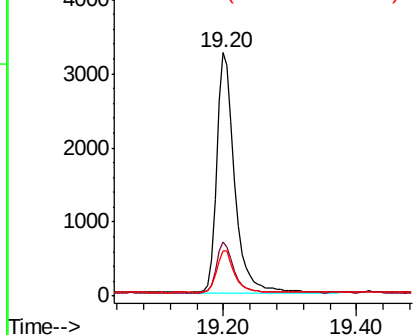


#28
 Pyrene
 Concen: 0.374 ng
 RT: 19.20 min Scan# 1569
 Delta R.T. -0.00 min
 Lab File: BE097619.D
 Acq: 21 Sep 2018 19:43

Tgt Ion:202 Resp: 5966
 Ion Ratio Lower Upper
 202 100
 200 20.7 16.6 25.0
 203 17.5 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: 0.329 ng

RT: 19.42 min Scan# 1608

Delta R.T. 0.01 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

Instrument :

BNA_E

ClientSampled :

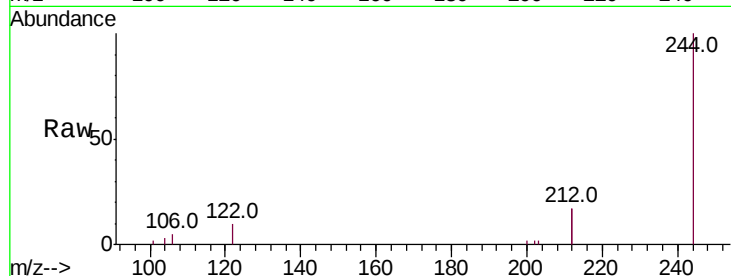
Tot Ion:244 Resp: 4230

Ion Ratio Lower Upper

244 100

212 33.1 25.4 38.0

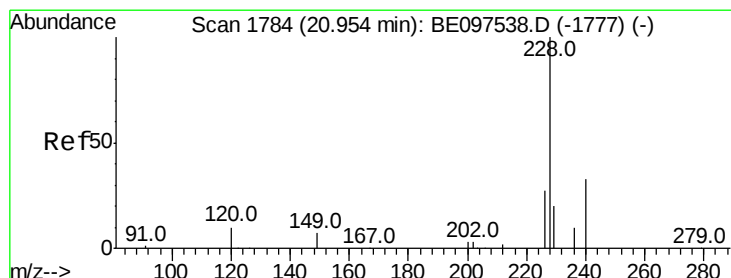
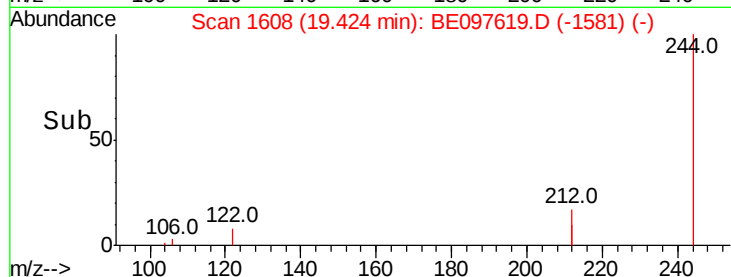
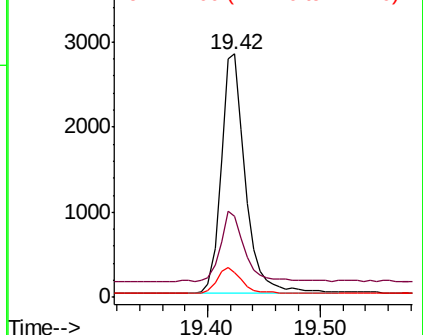
122 10.1 8.1 12.1



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: 0.376 ng

RT: 20.95 min Scan# 1784

Delta R.T. -0.00 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

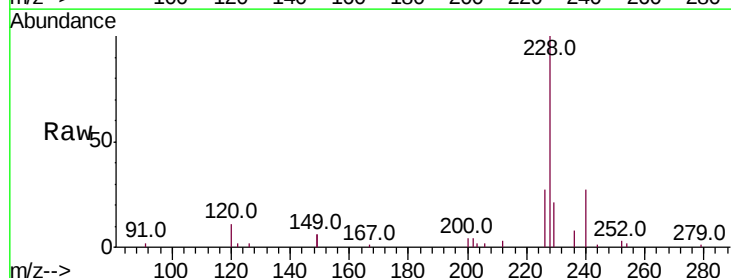
Tgt Ion:228 Resp: 6649

Ion Ratio Lower Upper

228 100

226 27.3 24.0 36.0

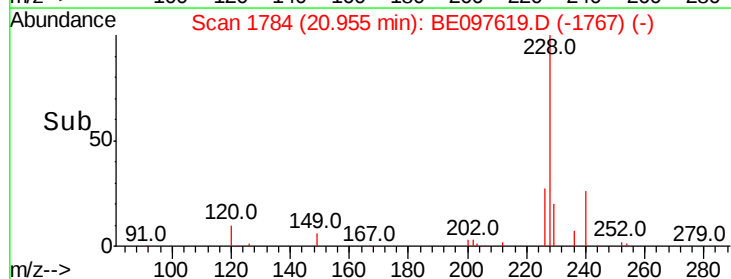
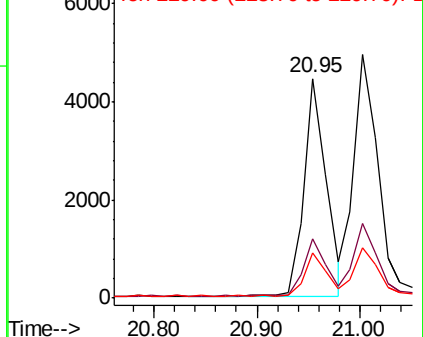
229 20.7 16.0 24.0



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





#31

Chrysene

Concen: 0.418 ng

RT: 21.00 min Scan# 1788

Delta R.T. -0.00 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

Instrument :

BNA_E

ClientSampleId :

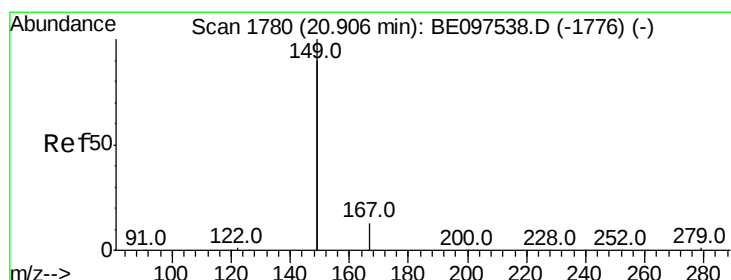
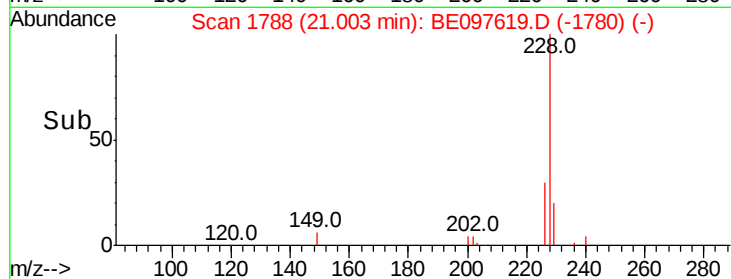
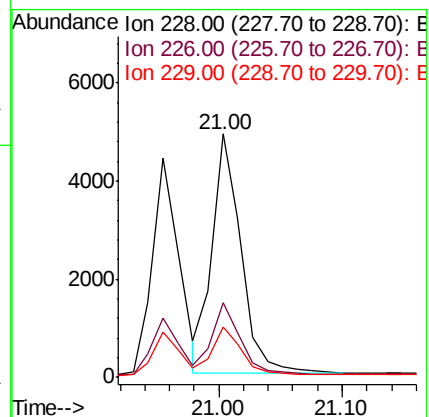
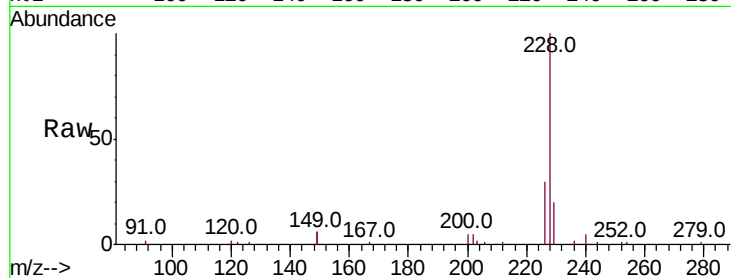
Tot Ion:228 Resp: 7924

Ion Ratio Lower Upper

228 100

226 30.5 24.0 36.0

229 20.5 16.0 24.0



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.241 ng

RT: 20.91 min Scan# 1780

Delta R.T. -0.00 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

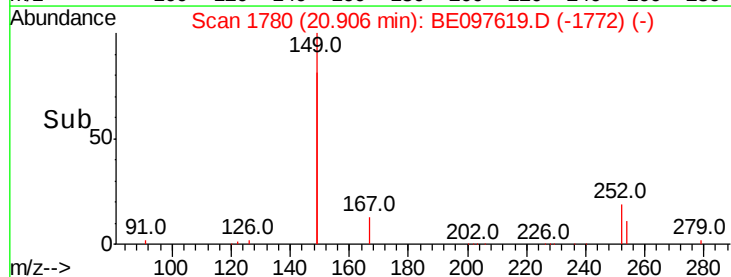
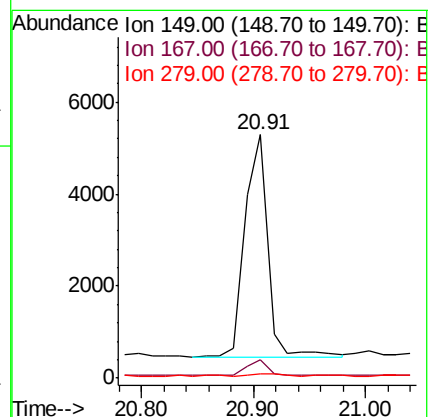
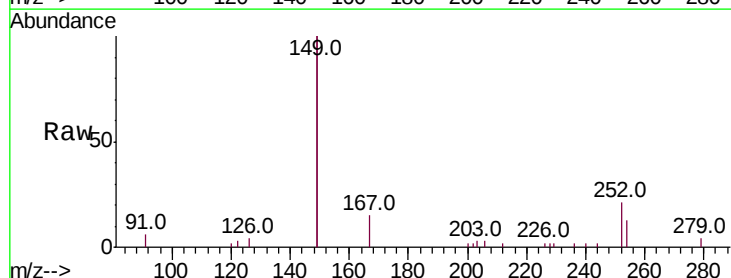
Tgt Ion:149 Resp: 6842

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: 0.468 ng

RT: 25.51 min Scan# 2844

Delta R.T. 0.01 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

Instrument :

BNA_E

ClientSampleId :

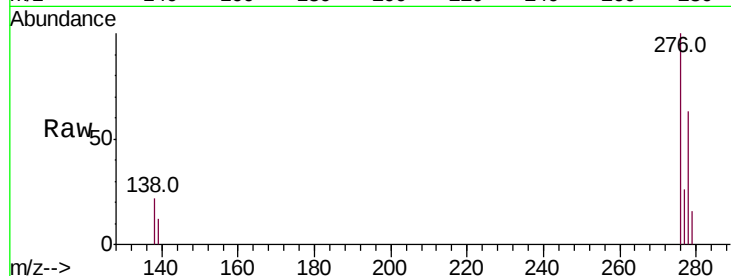
Tot Ion:276 Resp: 10687

Ion Ratio Lower Upper

276 100

138 22.0 22.5 33.7#

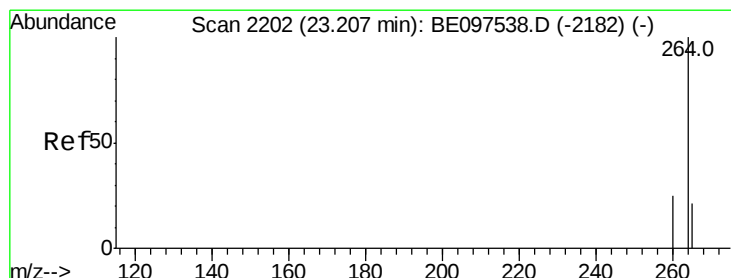
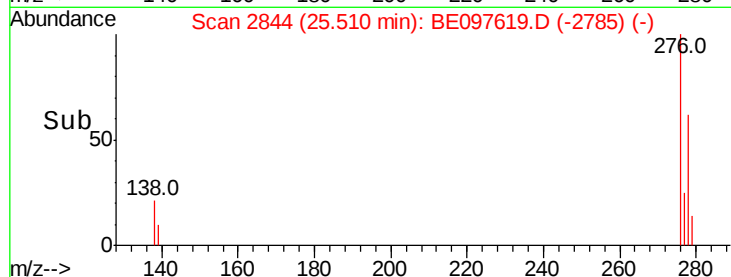
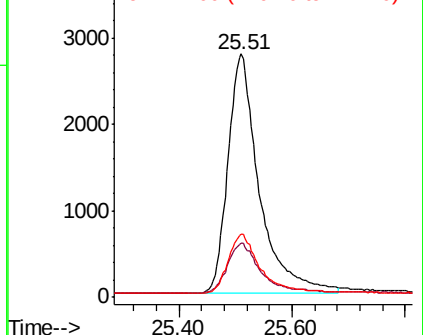
277 25.2 19.9 29.9



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# 2202

Delta R.T. 0.00 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

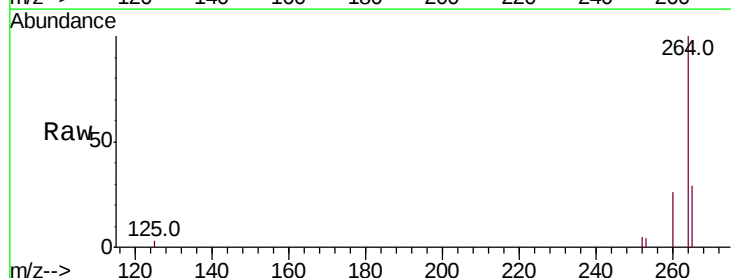
Tgt Ion:264 Resp: 7596

Ion Ratio Lower Upper

264 100

260 25.9 20.5 30.7

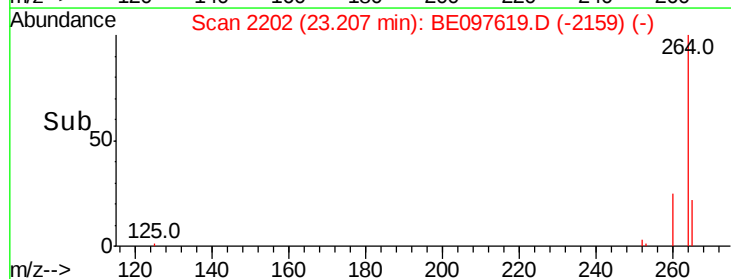
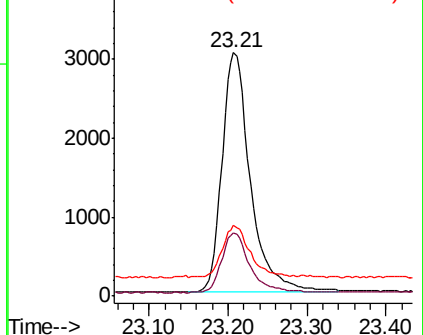
265 29.3 22.8 34.2

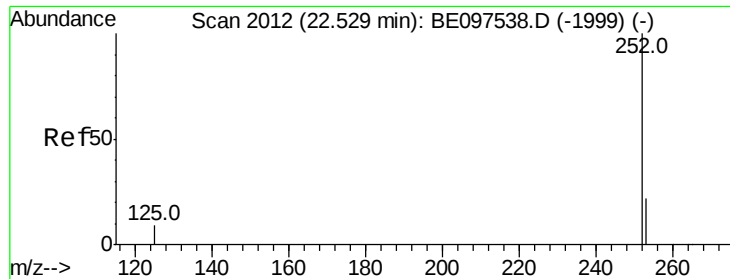


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.404 ng

RT: 22.53 min Scan# 2013

Delta R.T. 0.00 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

Instrument :

BNA_E

ClientSampleId :

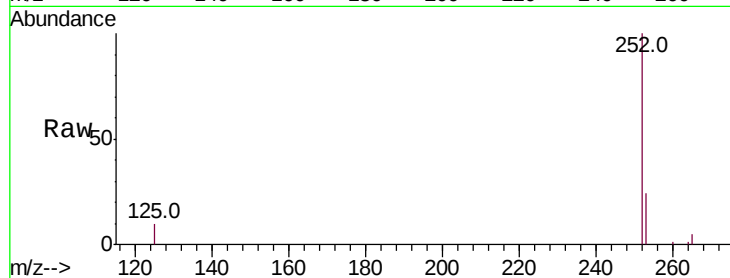
Tot Ion:252 Resp: 7861

Ion Ratio Lower Upper

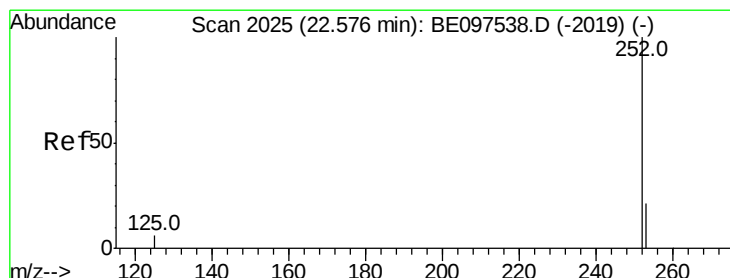
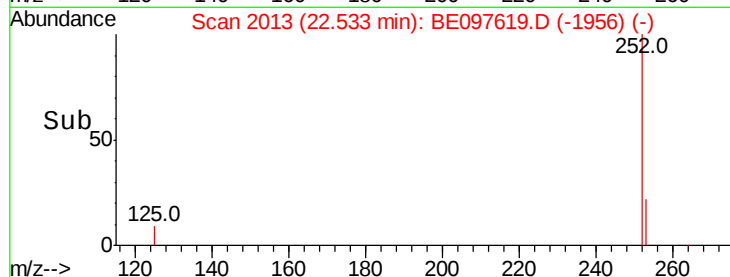
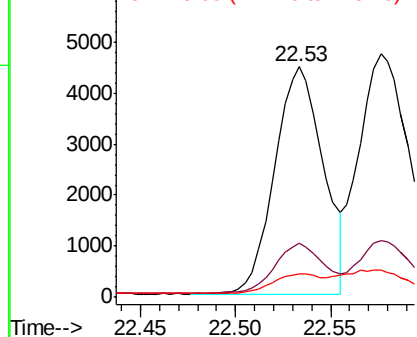
252 100

253 23.5 20.0 30.0

125 10.3 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: 0.425 ng

RT: 22.58 min Scan# 2025

Delta R.T. 0.00 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

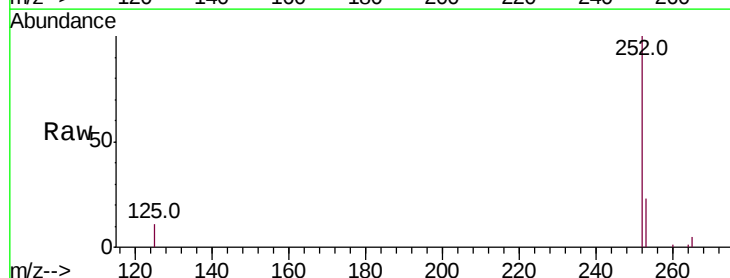
Tgt Ion:252 Resp: 9442

Ion Ratio Lower Upper

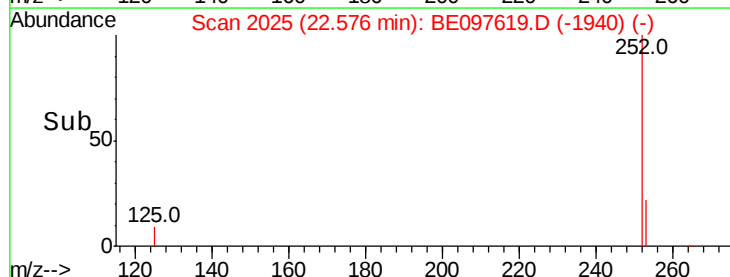
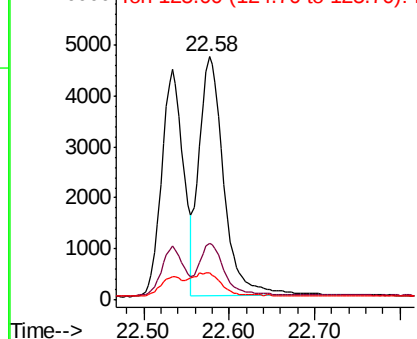
252 100

253 23.4 16.0 24.0

125 11.0 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: 0.427 ng

RT: 23.11 min Scan# 2175

Delta R.T. 0.00 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

Instrument :

BNA_E

ClientSampleId :

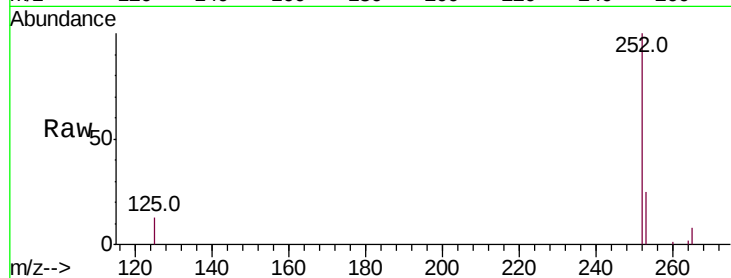
Tot Ion:252 Resp: 8073

Ion Ratio Lower Upper

252 100

253 24.8 16.0 24.0#

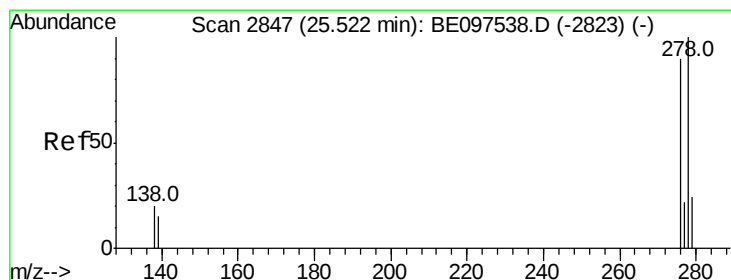
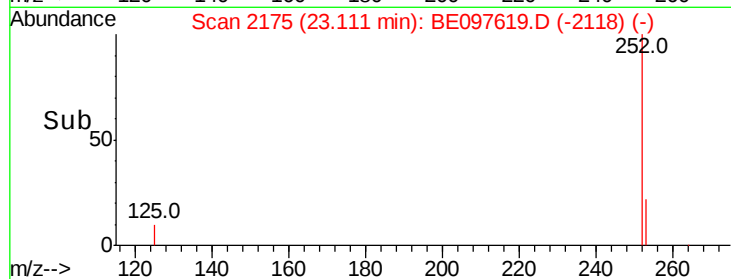
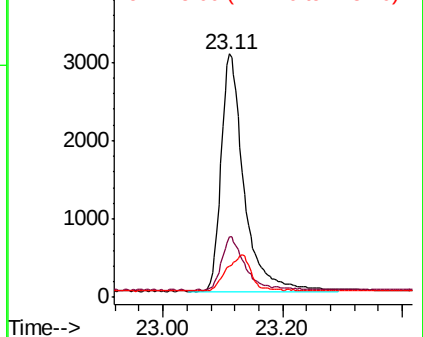
125 12.9 12.0 18.0



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: 0.430 ng

RT: 25.53 min Scan# 2849

Delta R.T. 0.01 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

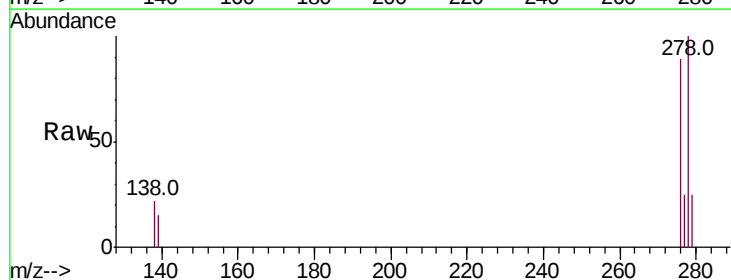
Tgt Ion:278 Resp: 8782

Ion Ratio Lower Upper

278 100

139 15.2 16.0 24.0#

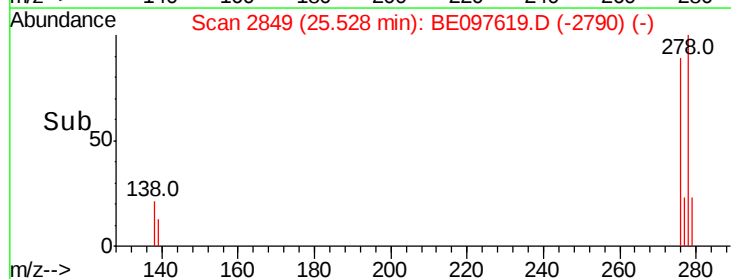
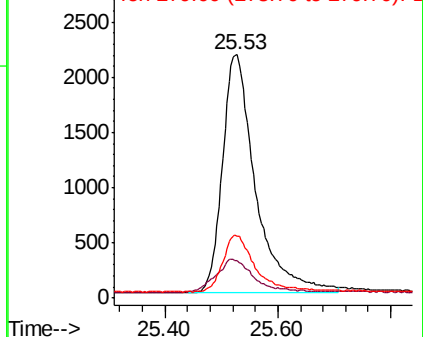
279 25.2 20.0 30.0



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: 0.435 ng

RT: 26.21 min Scan# 3039

Delta R.T. 0.01 min

Lab File: BE097619.D

Acq: 21 Sep 2018 19:43

Instrument :

BNA_E

ClientSampleId :

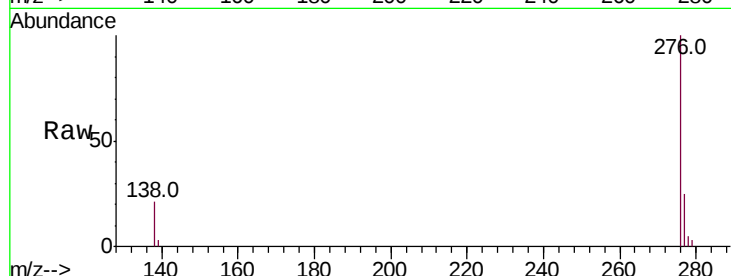
Tot Ion:276 Resp: 8638

Ion Ratio Lower Upper

276 100

277 25.1 16.0 24.0#

138 20.5 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

