

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE122118\
 Data File : BE098553.D
 Acq On : 21 Dec 2018 15:52
 Operator : SJ/JU
 Sample : PB115910BS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB115910BS

Quant Time: Dec 22 00:57:20 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE121018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 10 14:59:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.85	152	457	0.40	ng	-0.01
7) Naphthalene-d8	10.65	136	1866	0.40	ng	-0.01
13) Acenaphthene-d10	14.51	164	1357	0.40	ng	-0.02
19) Phenanthrene-d10	17.27	188	4602	0.40	ng	-0.01
27) Chrysene-d12	21.45	240	8796	0.40	ng	-0.01
34) Perylene-d12	23.99	264	8031	0.40	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.45	112	549	0.51	ng	0.00
5) Phenol-d6	7.05	99	747	0.49	ng	0.00
8) Nitrobenzene-d5	9.03	82	620	0.37	ng	0.01
11) 2-Methylnaphthalene-d10	12.25	152	1555	0.51	ng	-0.02
14) 2,4,6-Tribromophenol	16.01	330	287	0.58	ng	-0.01
15) 2-Fluorobiphenyl	13.14	172	2066	0.36	ng	0.00
25) Fluoranthene-d10	19.30	212	31800	0.54	ng	-0.01
29) Terphenyl-d14	19.90	244	7385	0.35	ng	-0.01

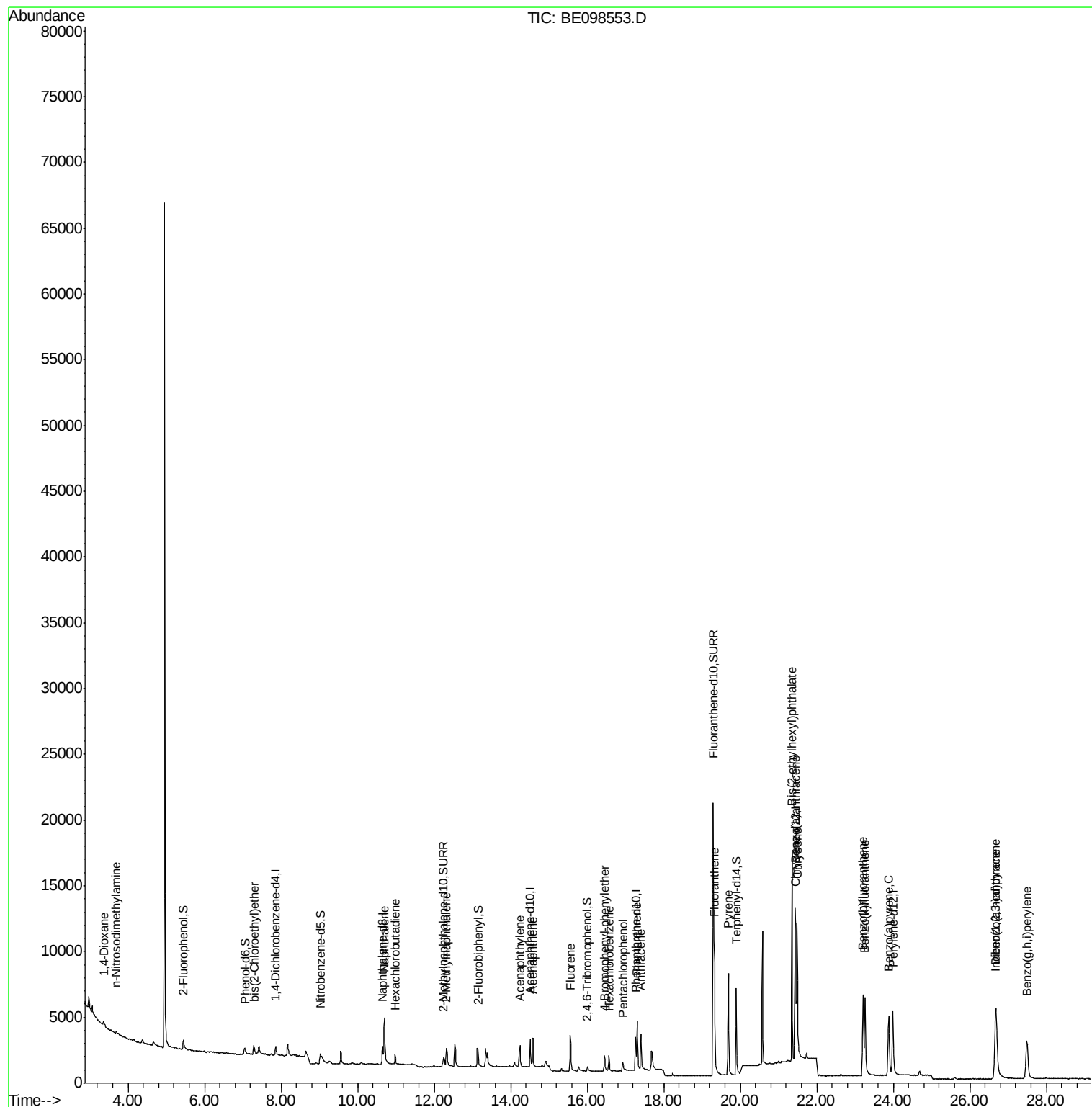
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.36	88	212	0.268	ng	# 32
3) n-Nitrosodimethylamine	3.70	42	320	0.450	ng	# 100
6) bis(2-Chloroethyl)ether	7.29	93	390	0.271	ng	81
9) Naphthalene	10.70	128	7594	0.404	ng	# 98
10) Hexachlorobutadiene	10.98	225	489	0.409	ng	99
12) 2-Methylnaphthalene	12.32	142	1241	0.407	ng	# 94
16) Acenaphthylene	14.24	152	2171	0.341	ng	97
17) Acenaphthene	14.59	154	1403	0.367	ng	99
18) Fluorene	15.55	166	2062	0.403	ng	97
20) 4-Bromophenyl-phenylether	16.45	248	714	0.288	ng	92
21) Hexachlorobenzene	16.57	284	880	0.330	ng	94
22) Pentachlorophenol	16.93	266	531	1.024	ng	94
23) Phenanthrene	17.30	178	4340	0.388	ng	99
24) Anthracene	17.40	178	3595	0.361	ng	98
26) Fluoranthene	19.33	202	7558	0.511	ng	98
28) Pyrene	19.69	202	7802	0.283	ng	99
30) Benzo(a)anthracene	21.44	228	9155	0.366	ng	99
31) Chrysene	21.49	228	9811	0.374	ng	99
32) Bis(2-ethylhexyl)phthalate	21.35	149	16890	0.332	ng	99
33) Indeno(1,2,3-cd)pyrene	26.66	276	9645	0.369	ng	97
35) Benzo(b)fluoranthene	23.21	252	9552	0.435	ng	98
36) Benzo(k)fluoranthene	23.26	252	10246	0.400	ng	98
37) Benzo(a)pyrene	23.88	252	9101	0.402	ng	97
38) Dibenzo(a,h)anthracene	26.69	278	7702	0.361	ng	98
39) Benzo(g,h,i)perylene	27.49	276	8214	0.382	ng	98

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

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.85 min Scan# 433

Delta R.T. -0.01 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB115910BS

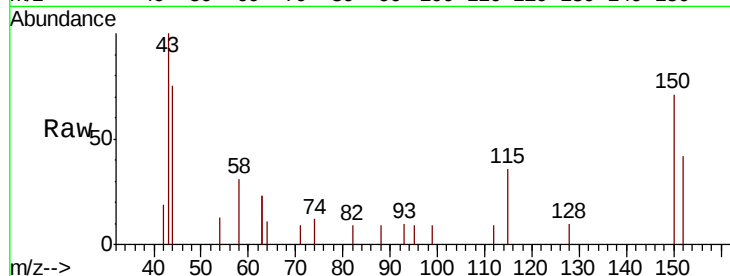
Tgt Ion:152 Resp: 457

Ion Ratio Lower Upper

152 100

150 168.3 124.2 186.4

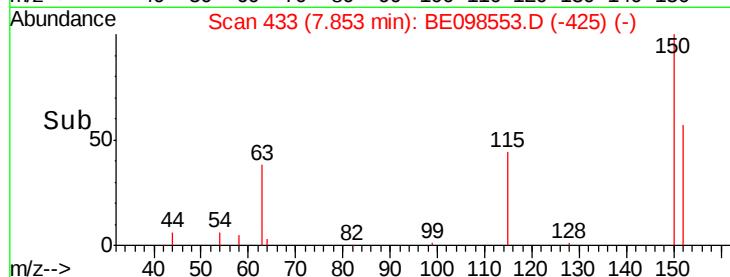
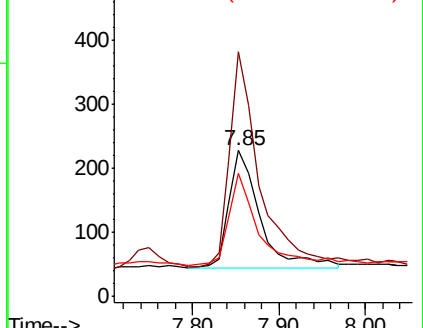
115 84.6 53.9 80.9#



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: 0.268 ng

RT: 3.36 min Scan# 43

Delta R.T. -0.01 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

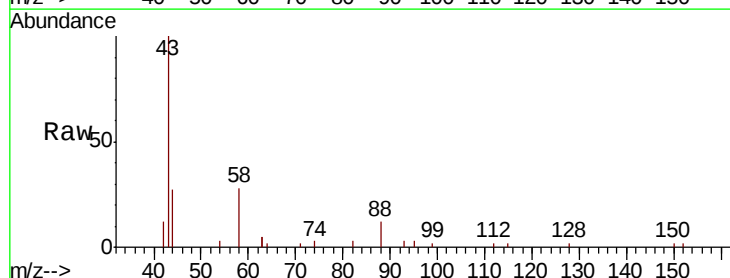
Tgt Ion: 88 Resp: 212

Ion Ratio Lower Upper

88 100

58 158.5 75.0 112.6#

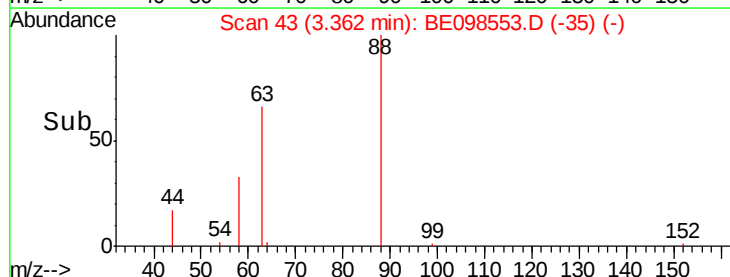
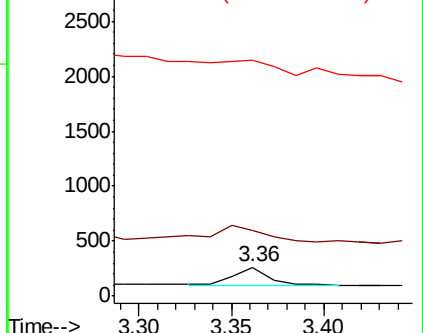
43 0.0 38.3 57.5#



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: 0.450 ng

RT: 3.70 min Scan# 72

Delta R.T. 0.00 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB115910BS

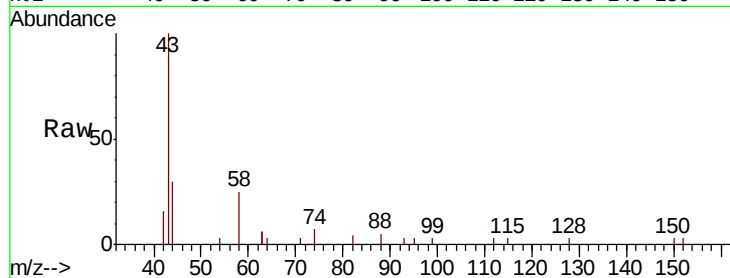
Tgt Ion: 42 Resp: 320

Ion Ratio Lower Upper

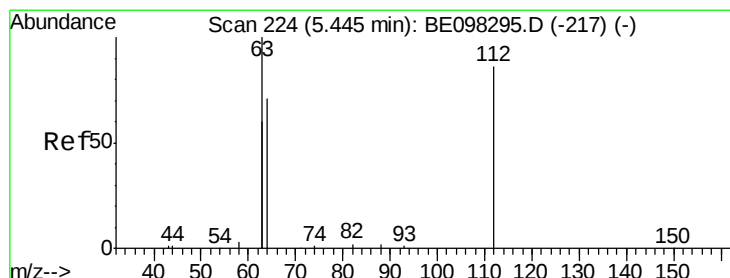
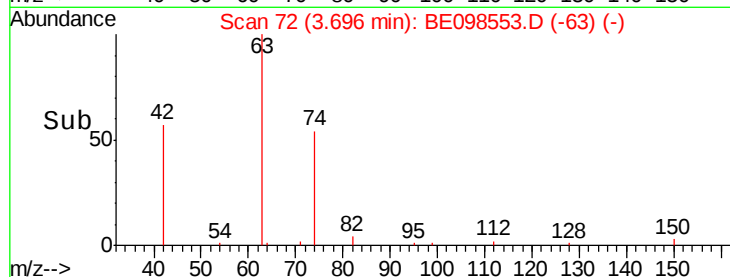
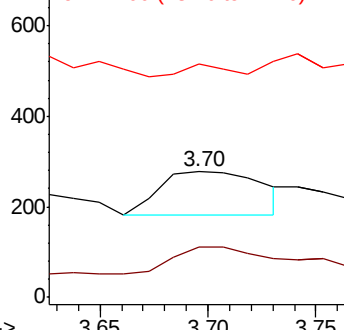
42 100

74 59.7 0.0 0.0#

44 12.2 0.0 0.0#



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: 0.513 ng

RT: 5.45 min Scan# 224

Delta R.T. 0.00 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

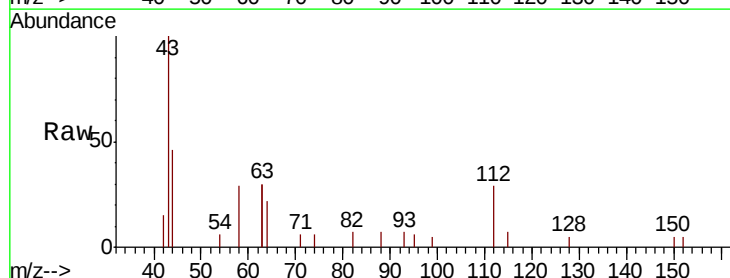
Tgt Ion: 112 Resp: 549

Ion Ratio Lower Upper

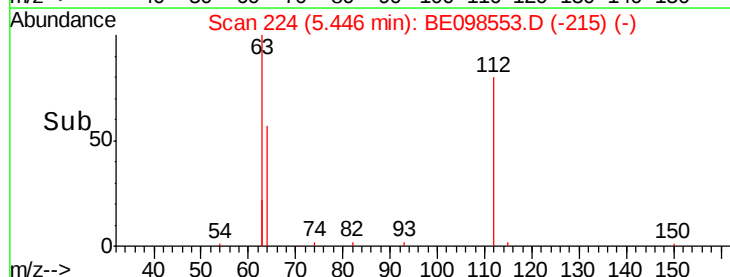
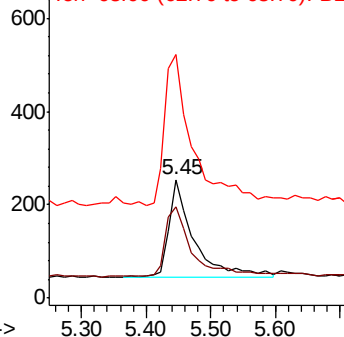
112 100

64 81.8 59.8 89.8

63 188.9 133.7 200.5



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





#5

Phenol-d6

Concen: 0.493 ng

RT: 7.05 min Scan# 363

Delta R.T. 0.00 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB115910BS

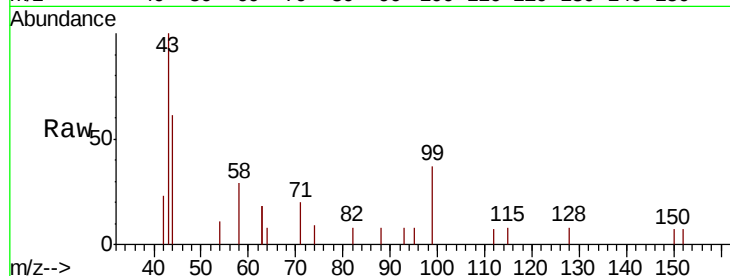
Tgt Ion: 99 Resp: 747

Ion Ratio Lower Upper

99 100

42 30.3 26.3 39.5

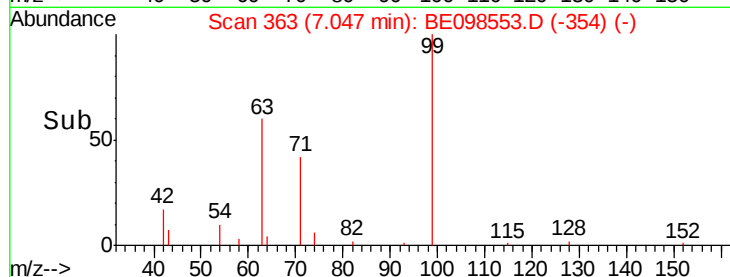
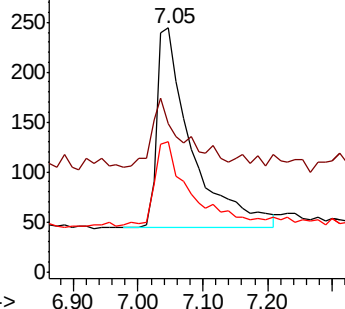
71 42.3 33.6 50.4



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: 0.271 ng

RT: 7.29 min Scan# 384

Delta R.T. 0.00 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

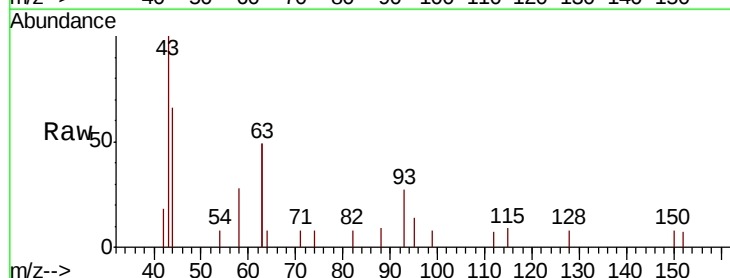
Tgt Ion: 93 Resp: 390

Ion Ratio Lower Upper

93 100

63 373.6 264.4 396.6

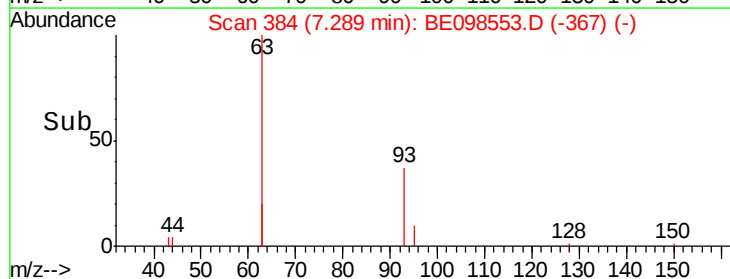
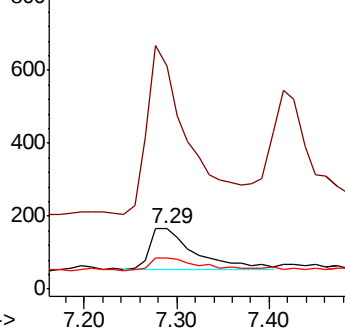
95 32.8 26.6 40.0



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: 10.65 min Scan# 653

Delta R.T. -0.01 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB115910BS

Tgt Ion: 136 Resp: 1866

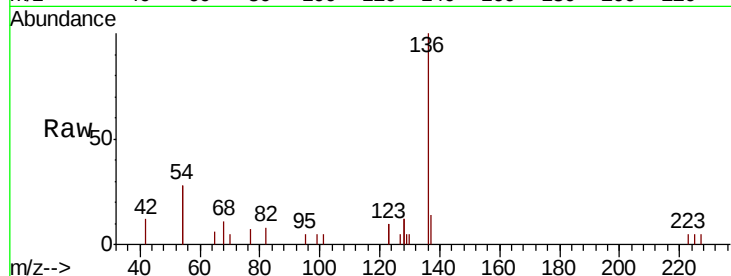
Ion Ratio Lower Upper

136 100

137 14.3 9.2 13.8#

54 56.2 28.4 42.6#

68 10.9 5.4 8.0#

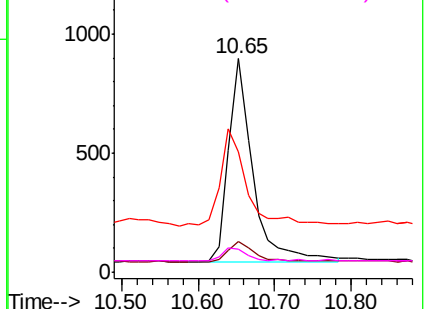
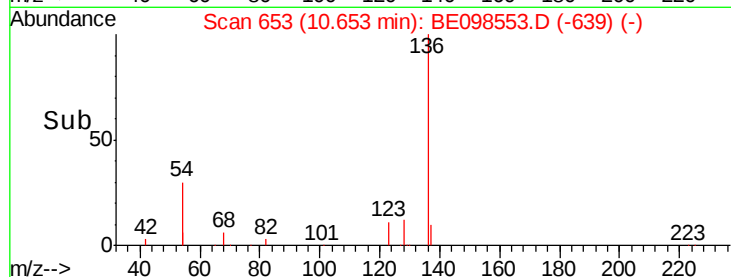


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.365 ng

RT: 9.03 min Scan# 528

Delta R.T. 0.01 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

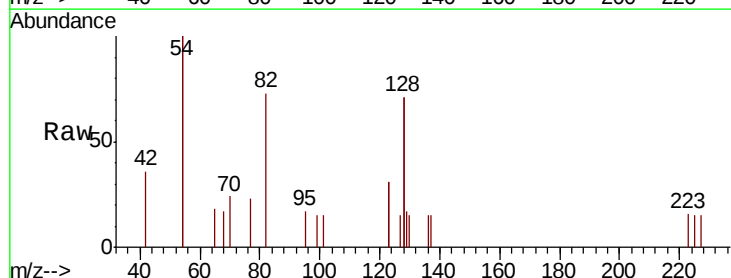
Tgt Ion: 82 Resp: 620

Ion Ratio Lower Upper

82 100

128 194.5 102.4 153.6#

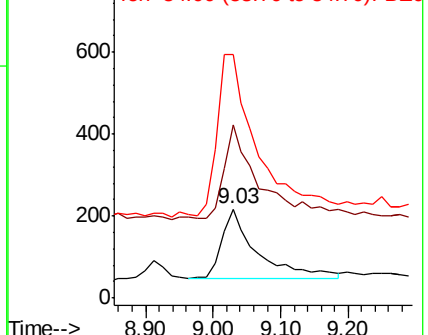
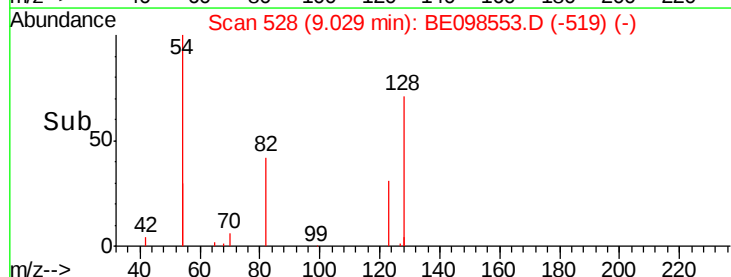
54 273.7 221.8 332.8

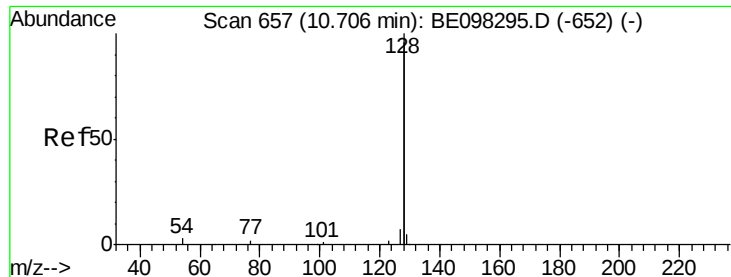


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

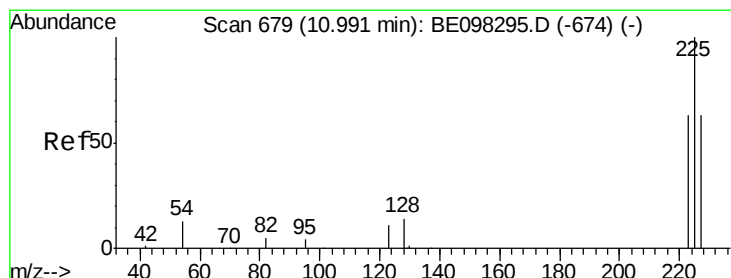
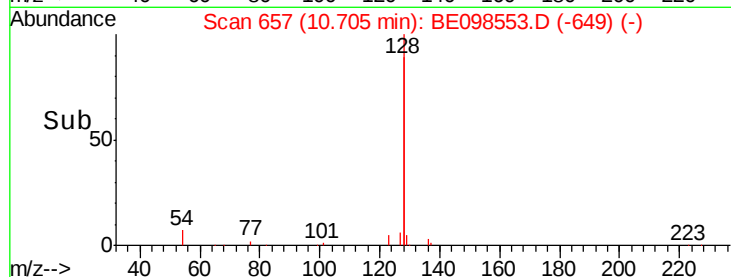
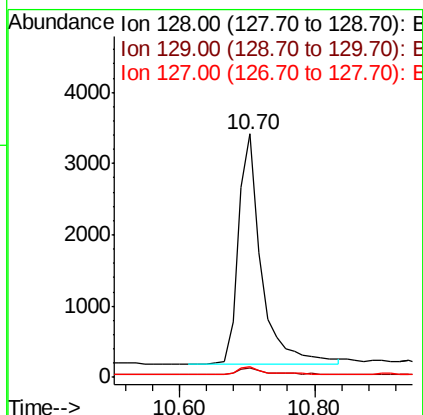
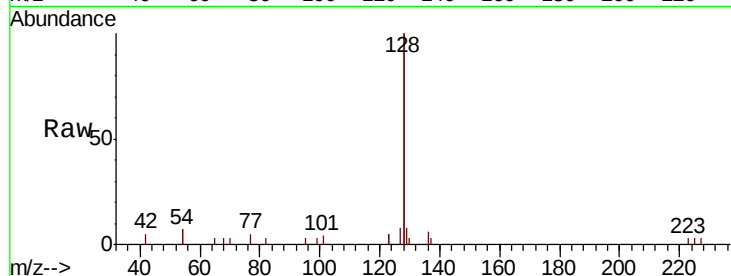




#9
Naphthalene
Concen: 0.404 ng
RT: 10.70 min Scan# 657
Delta R.T. -0.00 min
Lab File: BE098553.D
Acq: 21 Dec 2018 15:52

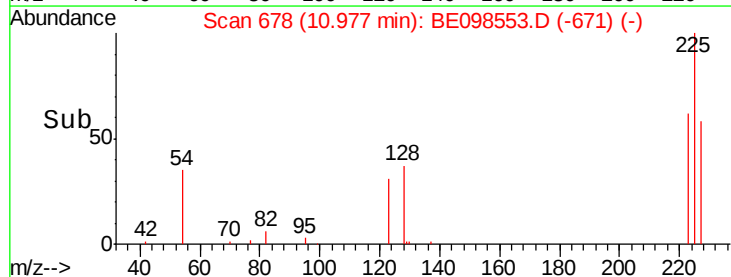
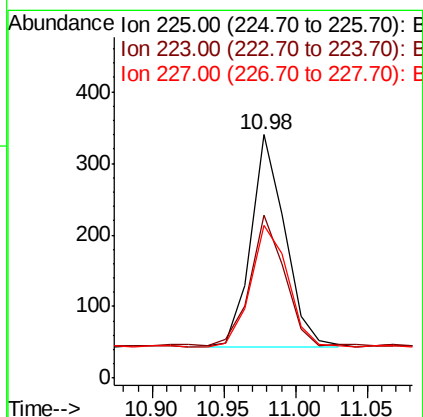
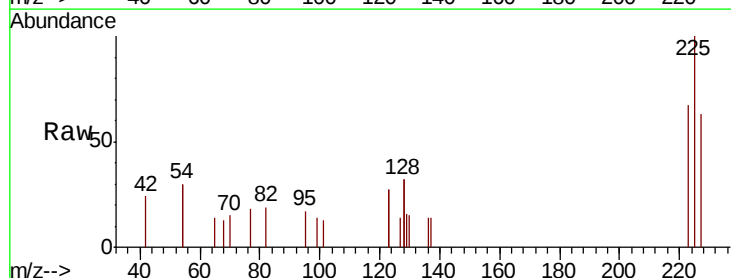
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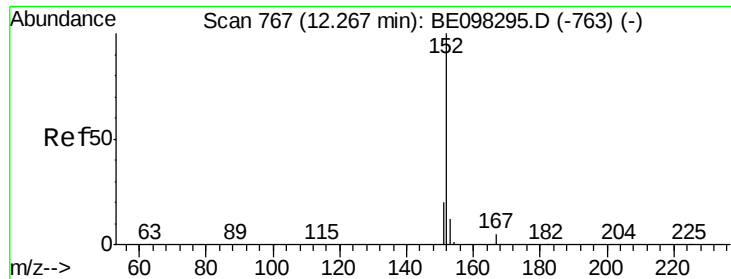
Tgt Ion:128 Resp: 7594
Ion Ratio Lower Upper
128 100
129 3.9 2.5 3.7#
127 4.2 2.7 4.1#



#10
Hexachlorobutadiene
Concen: 0.409 ng
RT: 10.98 min Scan# 678
Delta R.T. -0.01 min
Lab File: BE098553.D
Acq: 21 Dec 2018 15:52

Tgt Ion:225 Resp: 489
Ion Ratio Lower Upper
225 100
223 61.1 49.4 74.0
227 63.8 52.0 78.0

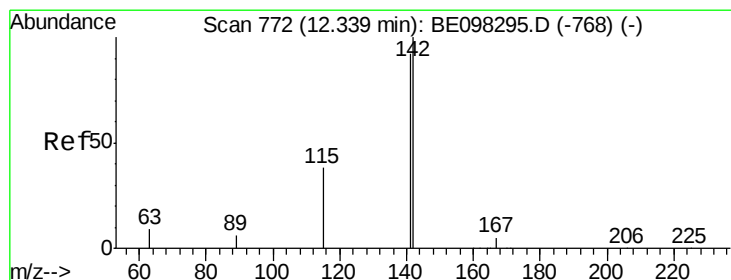
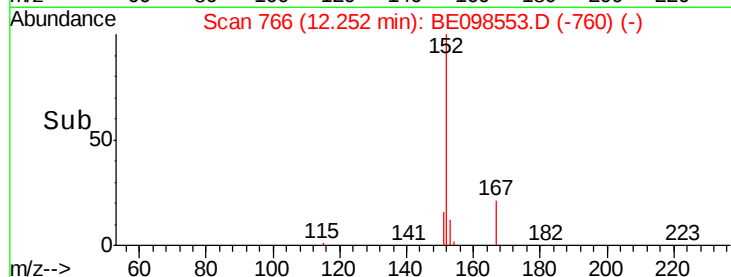
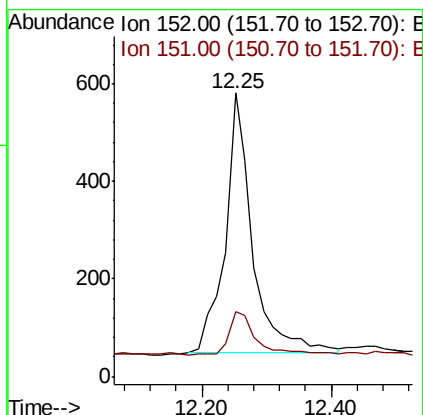
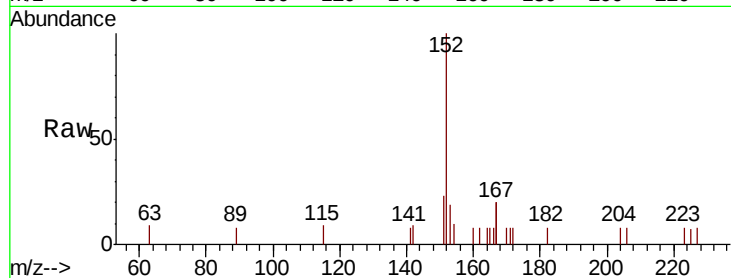




#11
 2-Methylnaphthalene-d10
 Concen: 0.512 ng
 RT: 12.25 min Scan# 766
 Delta R.T. -0.02 min
 Lab File: BE098553.D
 Acq: 21 Dec 2018 15:52

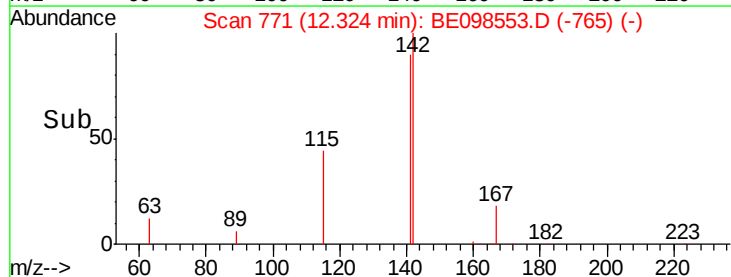
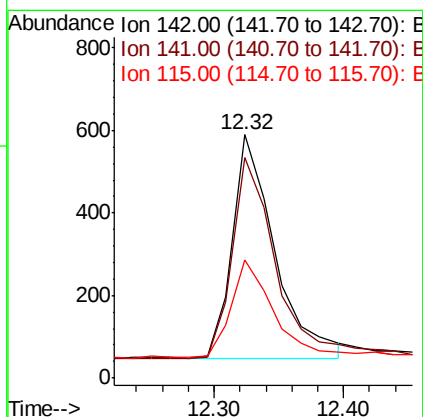
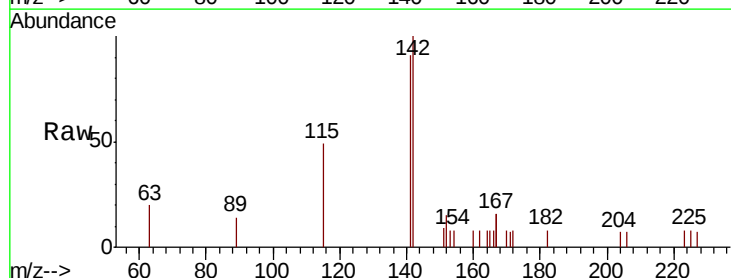
Instrument :
 BNA_E
 ClientSampleId :
 PB115910BS

Tgt Ion:152 Resp: 1555
 Ion Ratio Lower Upper
 152 100
 151 17.0 16.2 24.4



#12
 2-Methylnaphthalene
 Concen: 0.407 ng
 RT: 12.32 min Scan# 771
 Delta R.T. -0.02 min
 Lab File: BE098553.D
 Acq: 21 Dec 2018 15:52

Tgt Ion:142 Resp: 1241
 Ion Ratio Lower Upper
 142 100
 141 90.7 71.0 106.6
 115 48.6 32.2 48.2#

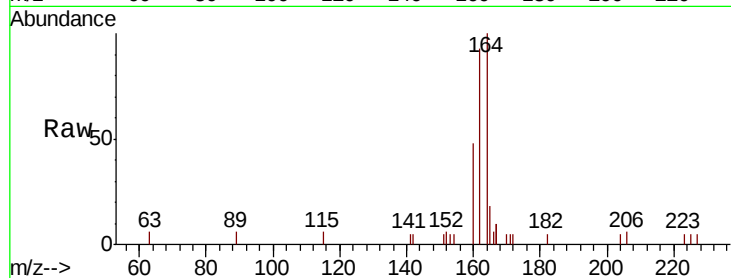




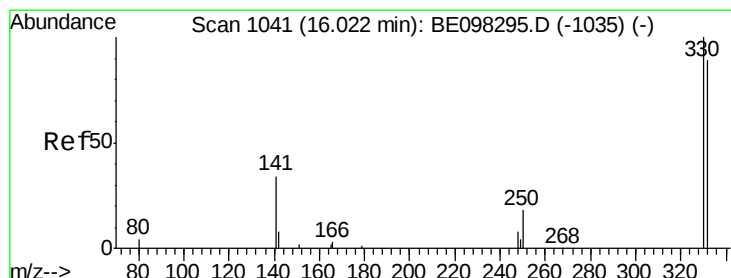
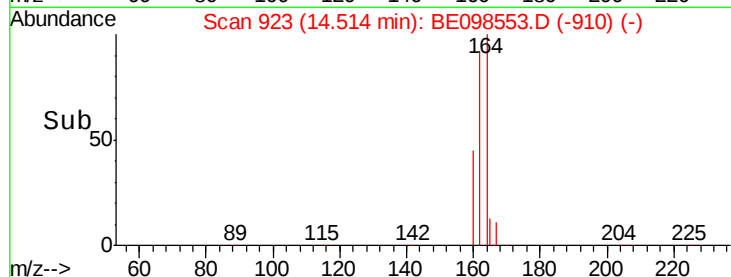
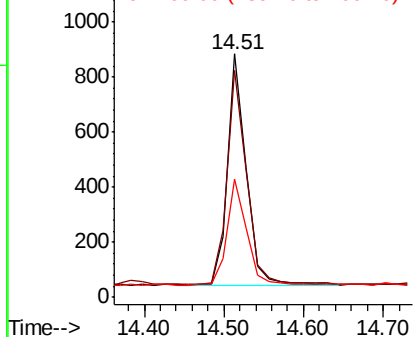
#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.51 min Scan# 923
 Delta R.T. -0.02 min
 Lab File: BE098553.D
 Acq: 21 Dec 2018 15:52

Instrument :
 BNA_E
 ClientSampleId :
 PB115910BS

Tgt Ion:164 Resp: 1357
 Ion Ratio Lower Upper
 164 100
 162 93.1 77.6 116.4
 160 48.3 36.0 54.0

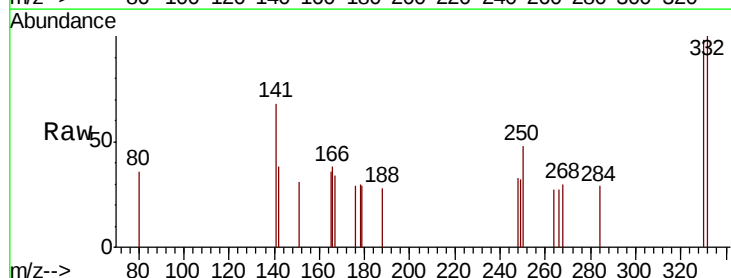


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

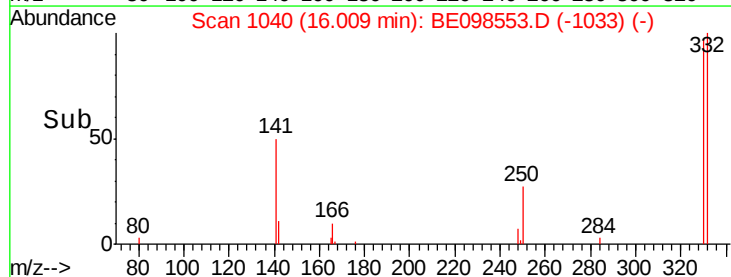
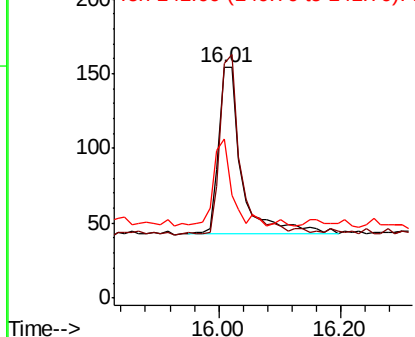


#14
 2,4,6-Tribromophenol
 Concen: 0.576 ng
 RT: 16.01 min Scan# 1040
 Delta R.T. -0.01 min
 Lab File: BE098553.D
 Acq: 21 Dec 2018 15:52

Tgt Ion:330 Resp: 287
 Ion Ratio Lower Upper
 330 100
 332 95.8 76.2 114.4
 141 41.8 39.0 58.4



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

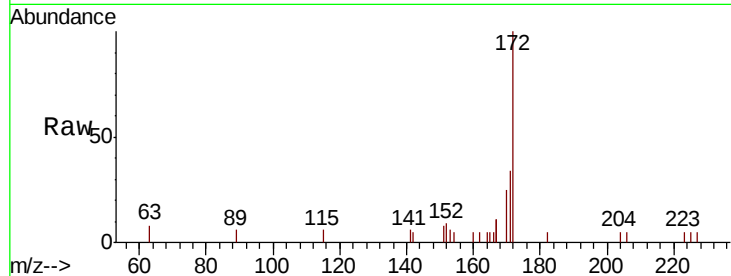




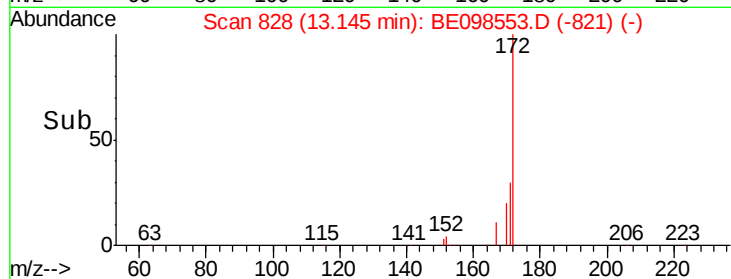
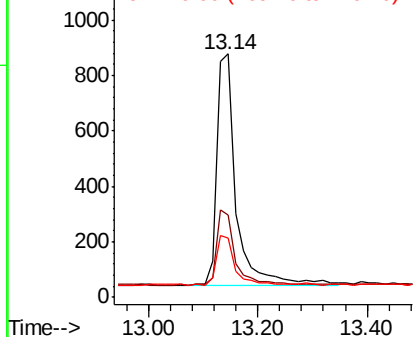
#15
2-Fluorobiphenyl
Concen: 0.361 ng
RT: 13.14 min Scan# 828
Delta R.T. -0.00 min
Lab File: BE098553.D
Acq: 21 Dec 2018 15:52

Instrument :
BNA_E
ClientSampleId :
PB115910BS

Tgt Ion:172 Resp: 2066
Ion Ratio Lower Upper
172 100
171 33.9 27.5 41.3
170 24.6 19.6 29.4

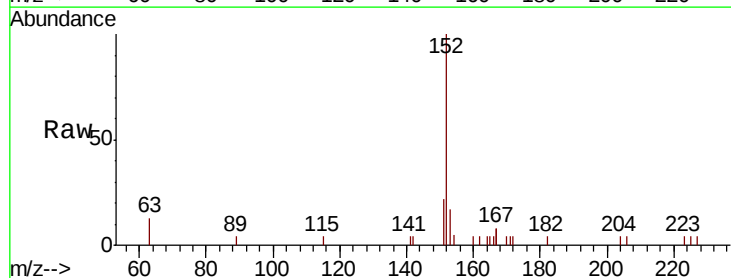


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

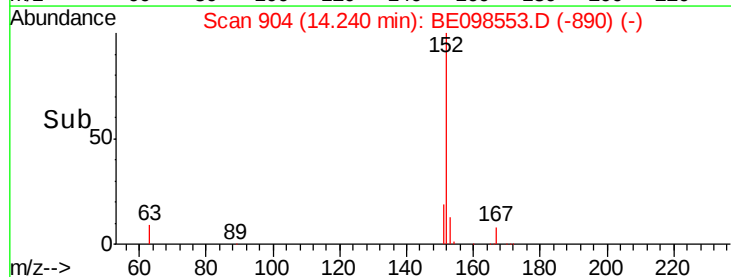
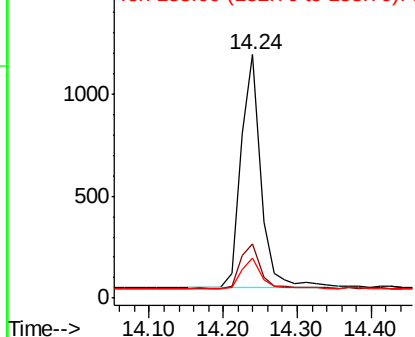


#16
Acenaphthylene
Concen: 0.341 ng
RT: 14.24 min Scan# 904
Delta R.T. -0.00 min
Lab File: BE098553.D
Acq: 21 Dec 2018 15:52

Tgt Ion:152 Resp: 2171
Ion Ratio Lower Upper
152 100
151 21.1 15.5 23.3
153 14.1 10.6 16.0



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: 0.367 ng

RT: 14.59 min Scan# 928

Delta R.T. -0.00 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB115910BS

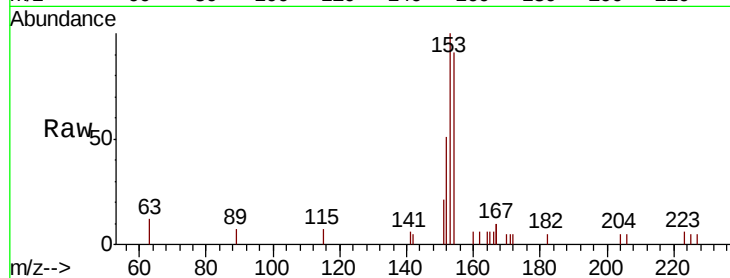
Tgt Ion:154 Resp: 1403

Ion Ratio Lower Upper

154 100

153 115.5 91.8 137.6

152 58.4 45.5 68.3

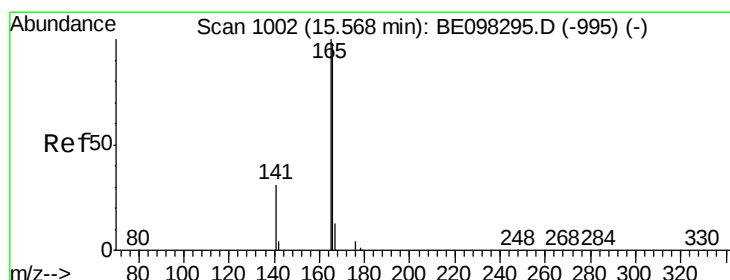
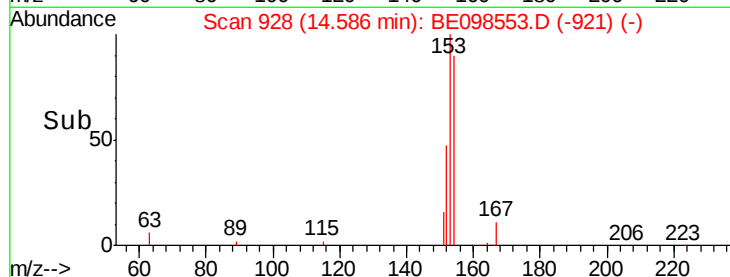
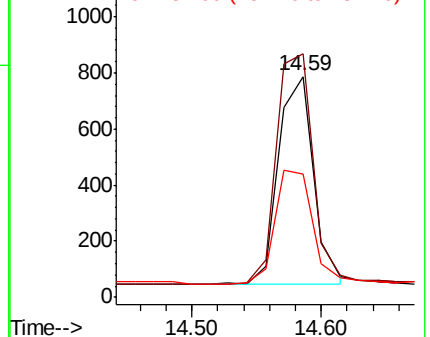


Abundance

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: 0.403 ng

RT: 15.55 min Scan# 1001

Delta R.T. -0.01 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

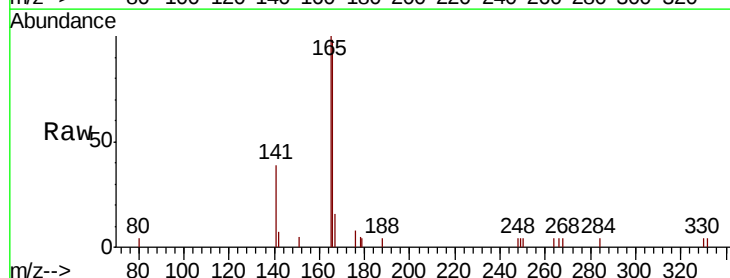
Tgt Ion:166 Resp: 2062

Ion Ratio Lower Upper

166 100

165 102.1 79.3 118.9

167 13.6 11.3 16.9

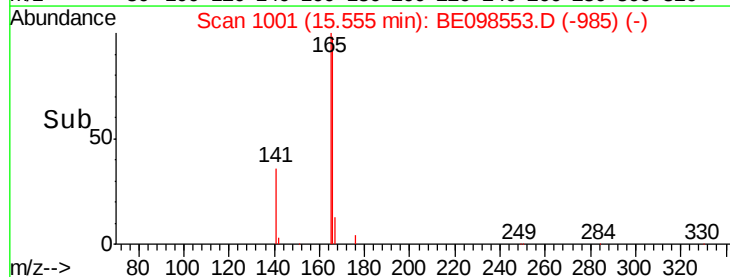
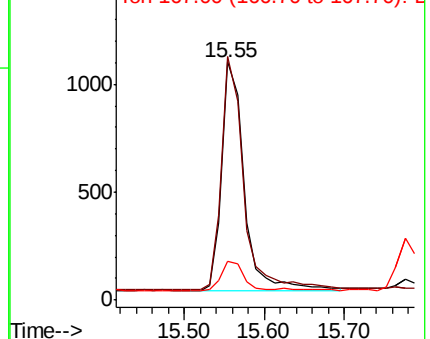


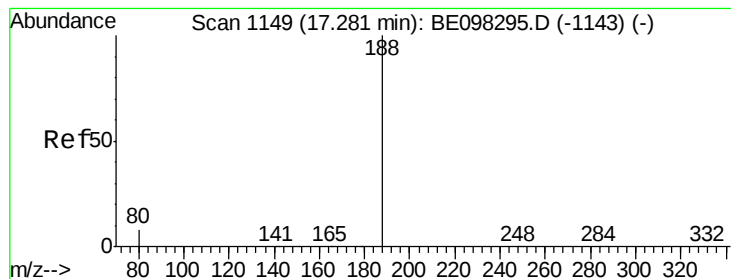
Abundance

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: 17.27 min Scan# 1148

Delta R.T. -0.01 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB115910BS

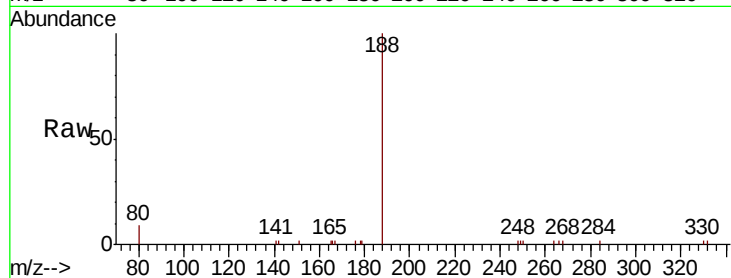
Tgt Ion:188 Resp: 4602

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

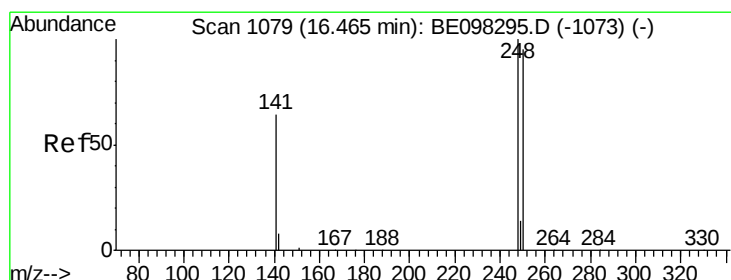
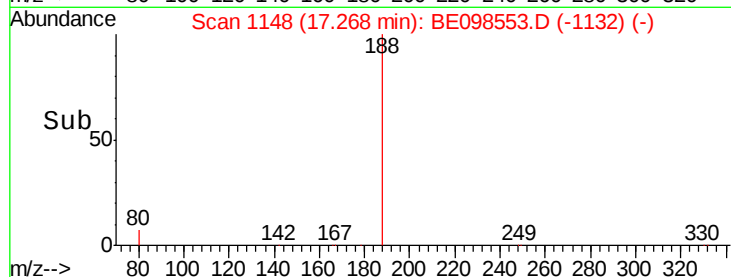
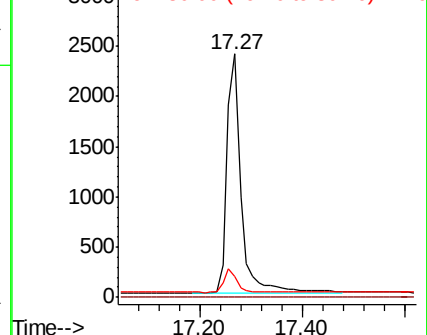
80 8.8 7.2 10.8



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: 0.288 ng

RT: 16.45 min Scan# 1078

Delta R.T. -0.01 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

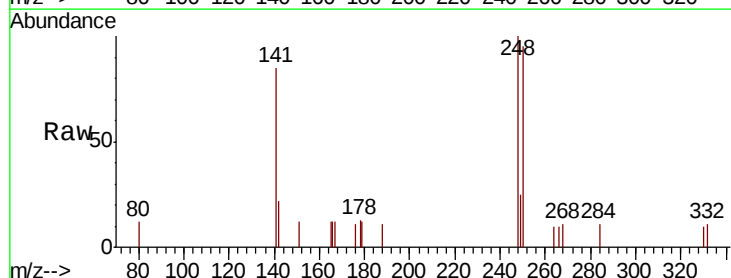
Tgt Ion:248 Resp: 714

Ion Ratio Lower Upper

248 100

250 95.2 71.0 106.6

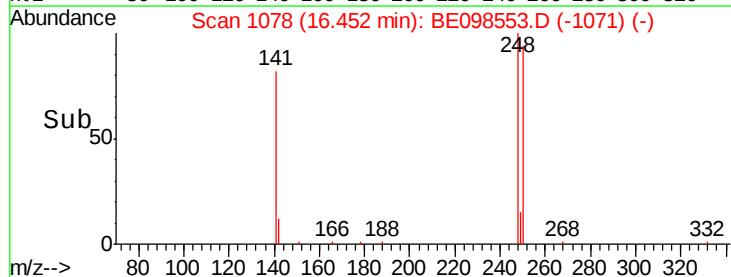
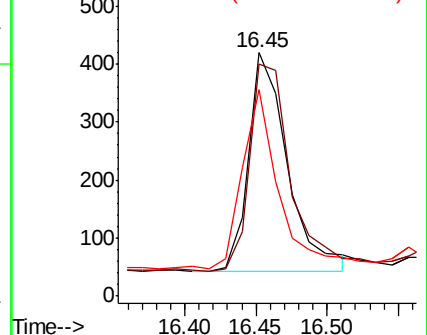
141 84.8 62.1 93.1



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: 0.330 ng

RT: 16.57 min Scan# 1088

Delta R.T. -0.01 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB115910BS

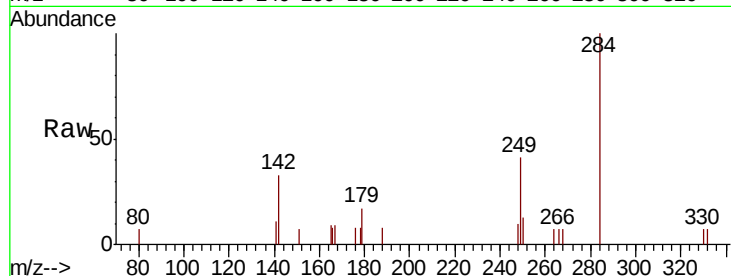
Tgt Ion:284 Resp: 880

Ion Ratio Lower Upper

284 100

142 36.4 26.3 39.5

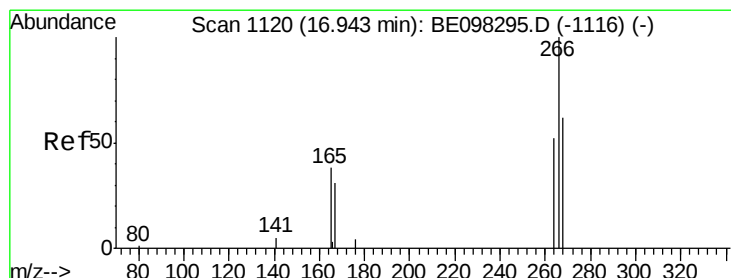
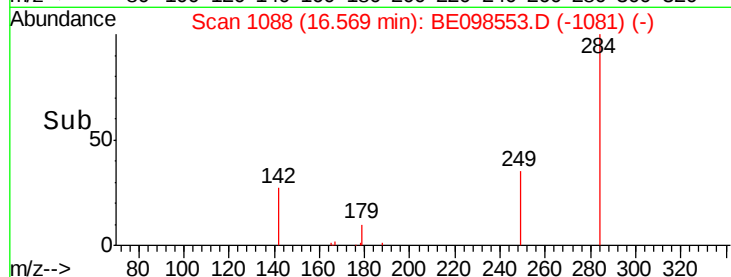
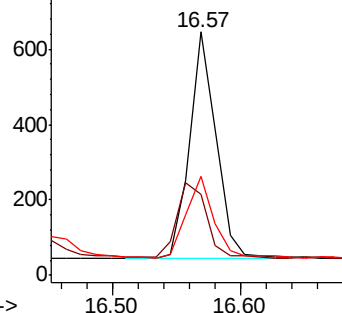
249 35.6 26.0 39.0



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: 16.93 min Scan# 1119

Delta R.T. -0.01 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

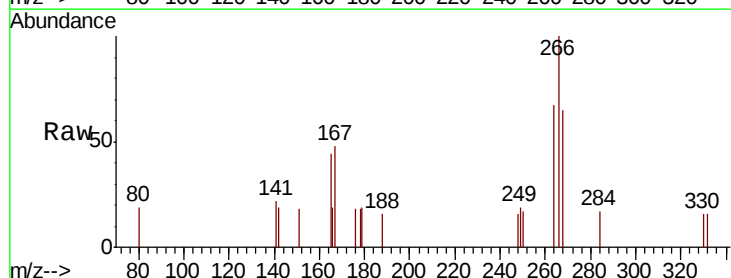
Tgt Ion:266 Resp: 531

Ion Ratio Lower Upper

266 100

264 66.8 59.0 88.4

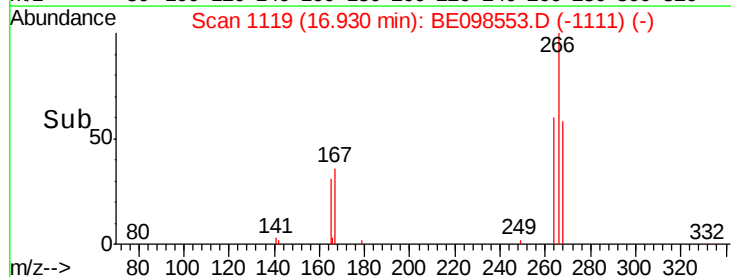
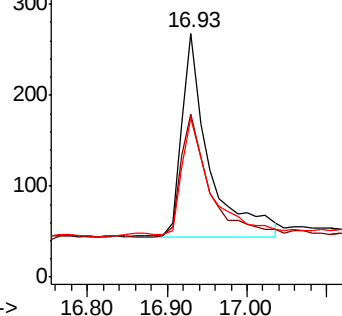
268 65.3 55.1 82.7



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: 0.388 ng

RT: 17.30 min Scan# 1151

Delta R.T. -0.01 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB115910BS

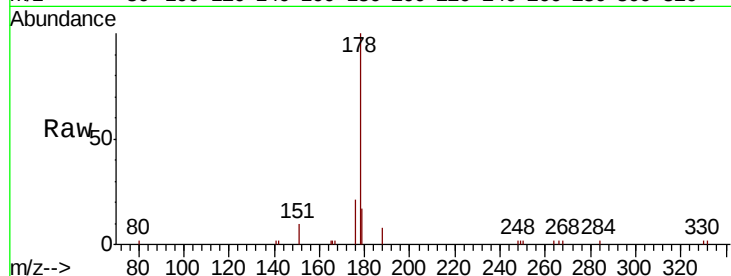
Tgt Ion:178 Resp: 4340

Ion Ratio Lower Upper

178 100

176 19.1 15.9 23.9

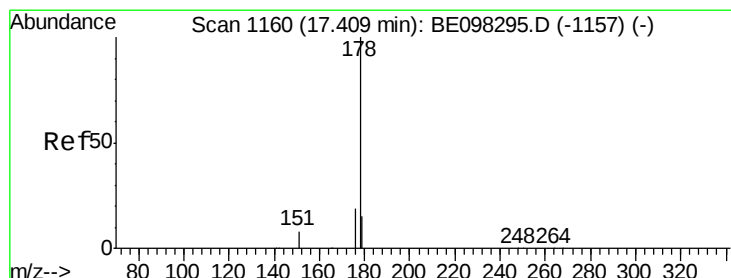
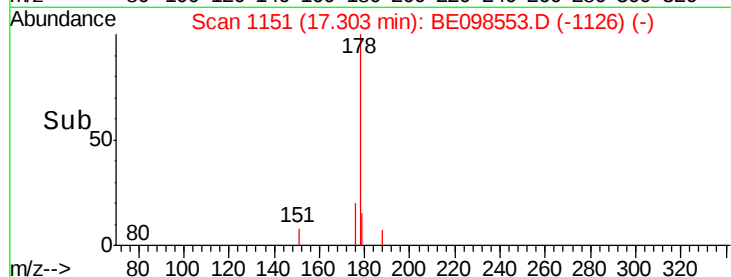
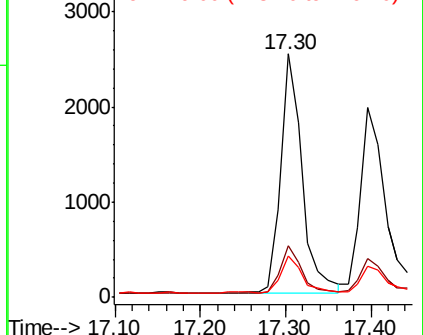
179 15.6 12.3 18.5



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: 0.361 ng

RT: 17.40 min Scan# 1159

Delta R.T. -0.01 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

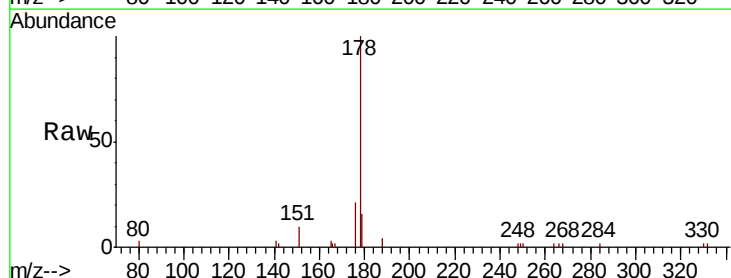
Tgt Ion:178 Resp: 3595

Ion Ratio Lower Upper

178 100

176 19.6 15.0 22.4

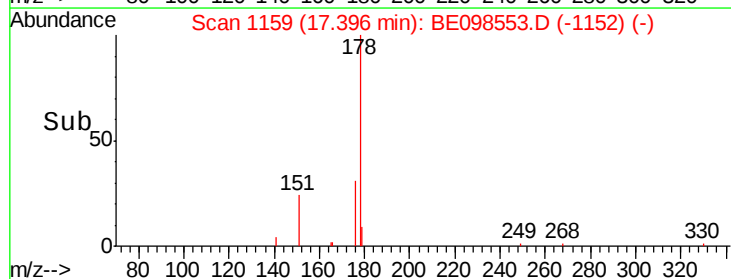
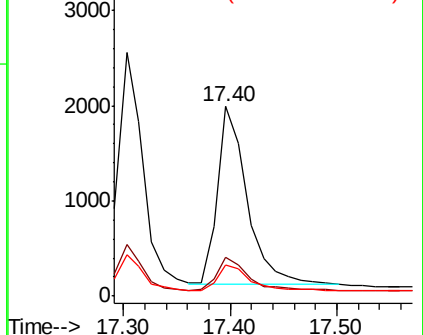
179 14.9 12.3 18.5



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: 0.539 ng

RT: 19.30 min Scan# 1431

Delta R.T. -0.01 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB115910BS

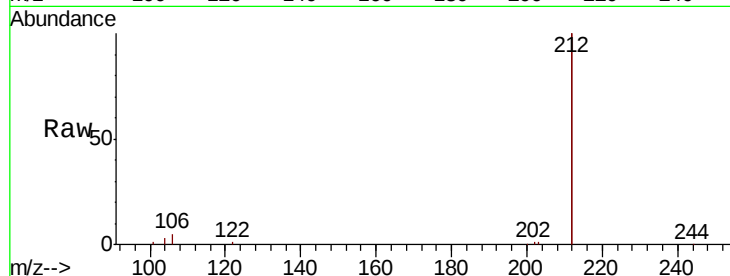
Tgt Ion:212 Resp: 31800

Ion Ratio Lower Upper

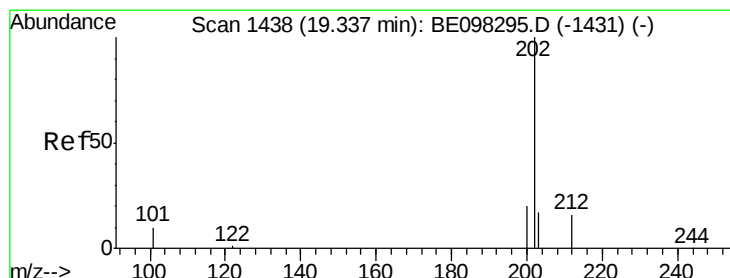
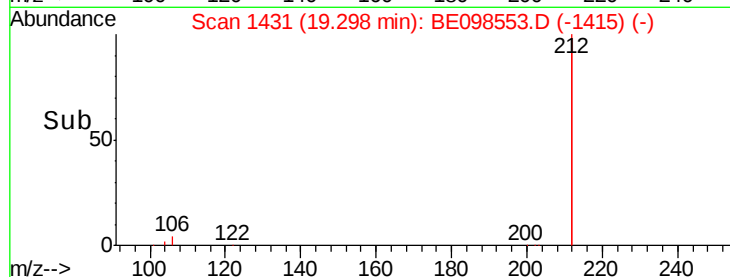
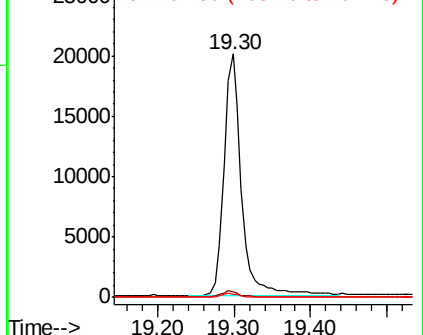
212 100

106 2.2 2.2 3.2

104 1.3 1.3 1.9



Abundance Ion 212.00 (211.70 to 212.70): E
Ion 106.00 (105.70 to 106.70): E
Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.511 ng

RT: 19.33 min Scan# 1436

Delta R.T. -0.01 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

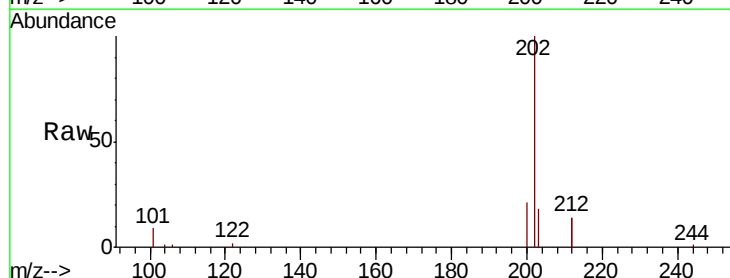
Tgt Ion:202 Resp: 7558

Ion Ratio Lower Upper

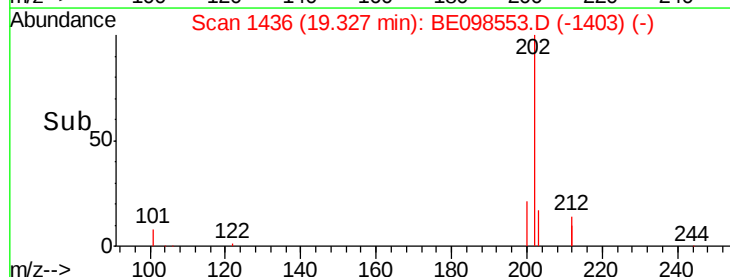
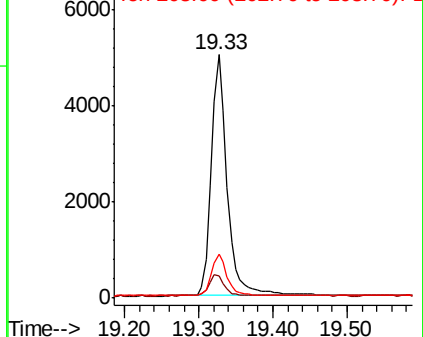
202 100

101 8.8 8.0 12.0

203 16.5 13.8 20.6



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.45 min Scan# 1670

Delta R.T. -0.01 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB115910BS

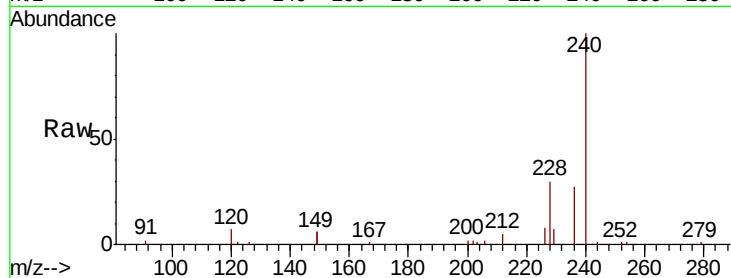
Tgt Ion:240 Resp: 8796

Ion Ratio Lower Upper

240 100

120 6.8 9.5 14.3#

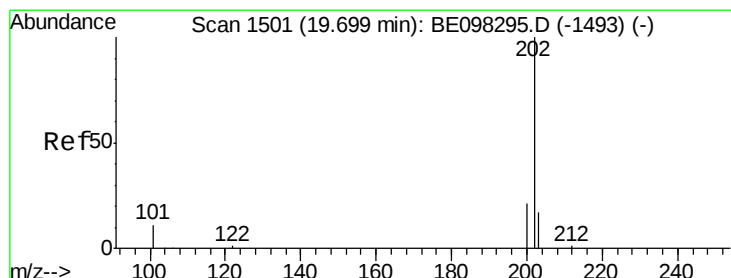
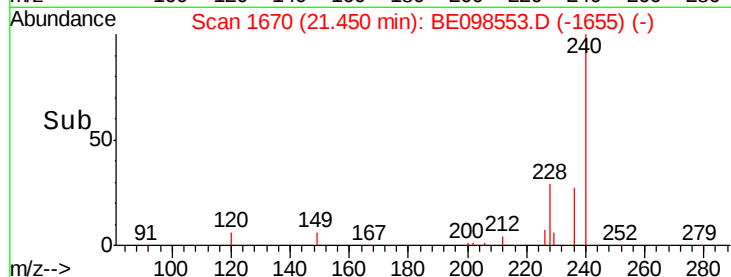
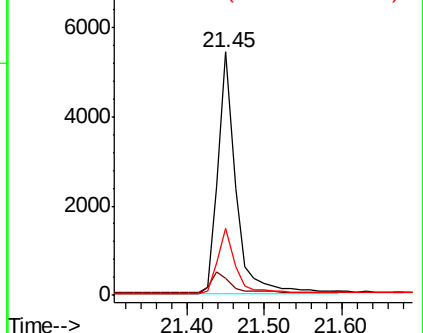
236 27.4 22.7 34.1



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: 0.283 ng

RT: 19.69 min Scan# 1499

Delta R.T. -0.01 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

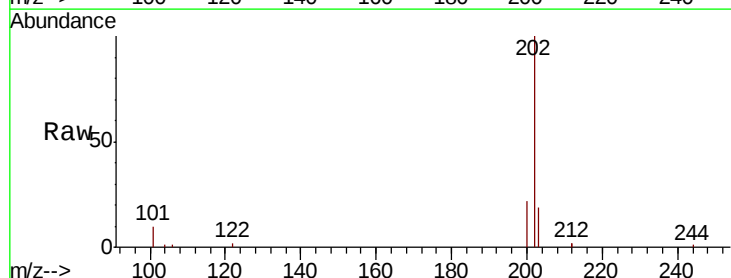
Tgt Ion:202 Resp: 7802

Ion Ratio Lower Upper

202 100

200 21.3 16.7 25.1

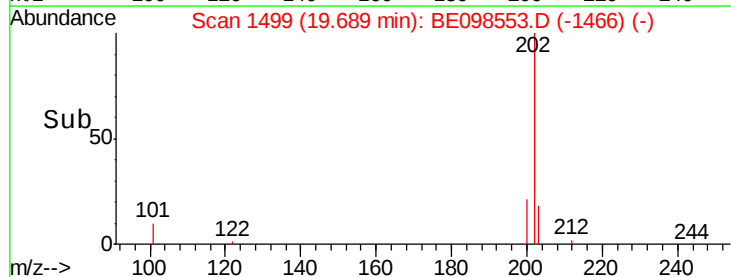
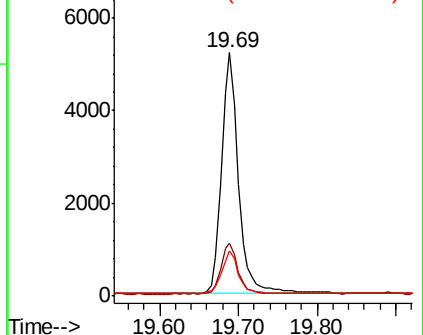
203 17.8 14.1 21.1

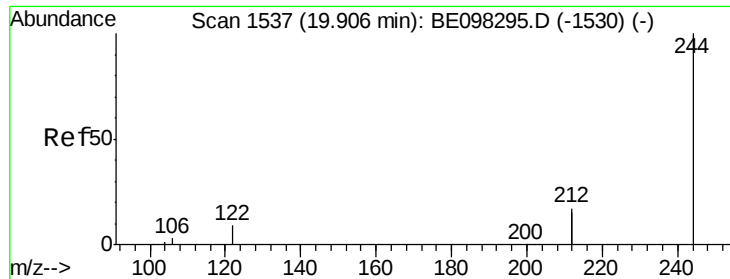


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.345 ng

RT: 19.90 min Scan# 1535

Delta R.T. -0.01 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB115910BS

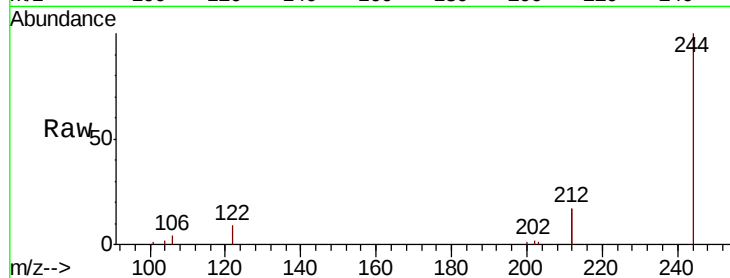
Tgt Ion:244 Resp: 7385

Ion Ratio Lower Upper

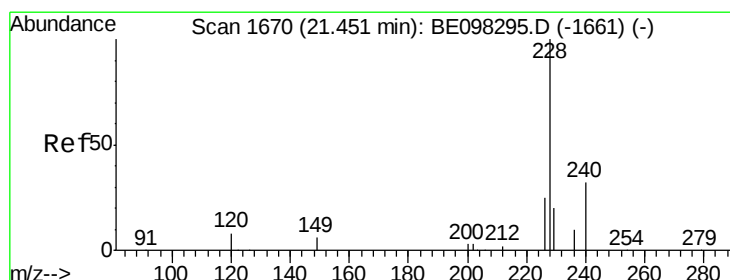
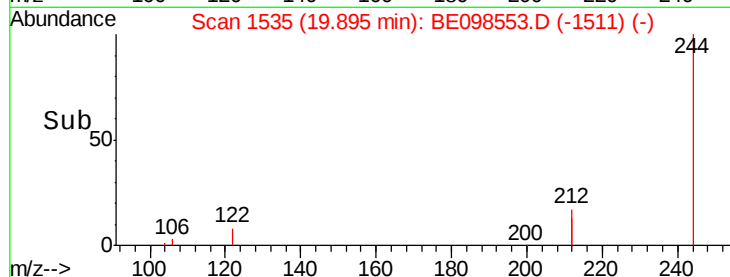
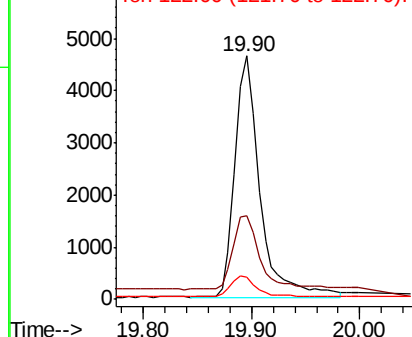
244 100

212 34.5 27.4 41.0

122 9.2 8.3 12.5



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: 0.366 ng

RT: 21.44 min Scan# 1669

Delta R.T. -0.01 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

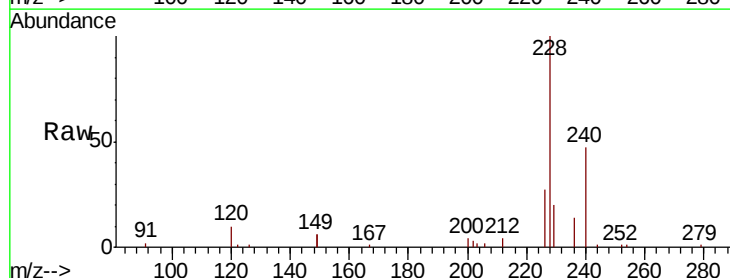
Tgt Ion:228 Resp: 9155

Ion Ratio Lower Upper

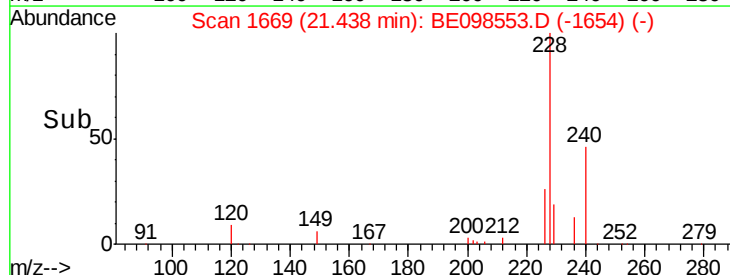
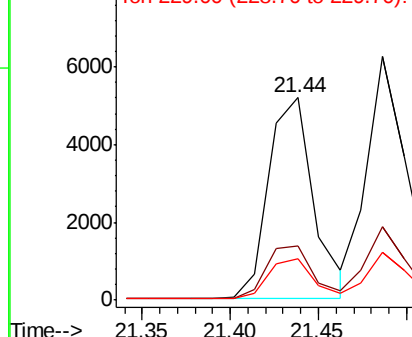
228 100

226 27.0 21.8 32.8

229 20.2 16.3 24.5



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: 0.374 ng

RT: 21.49 min Scan# 1673

Delta R.T. -0.01 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB115910BS

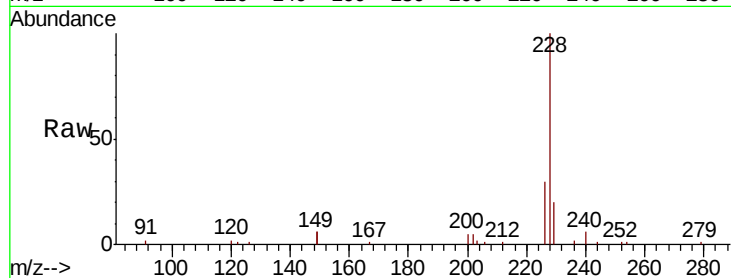
Tgt Ion:228 Resp: 9811

Ion Ratio Lower Upper

228 100

226 30.1 23.4 35.0

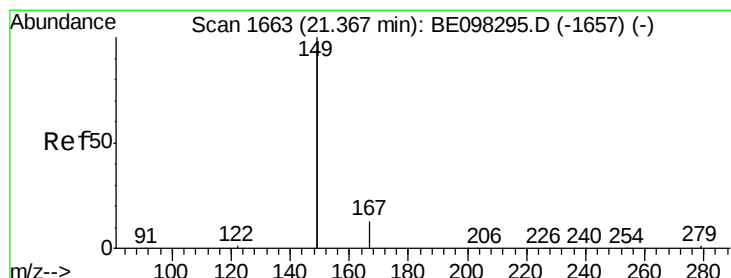
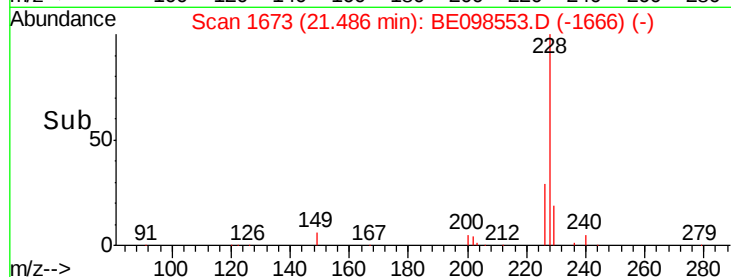
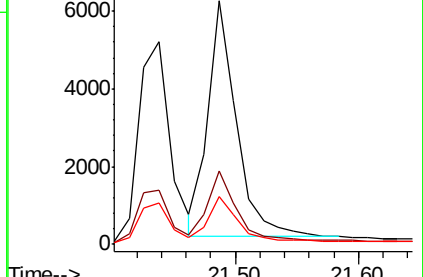
229 19.9 16.2 24.4



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: 0.332 ng

RT: 21.35 min Scan# 1662

Delta R.T. -0.01 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

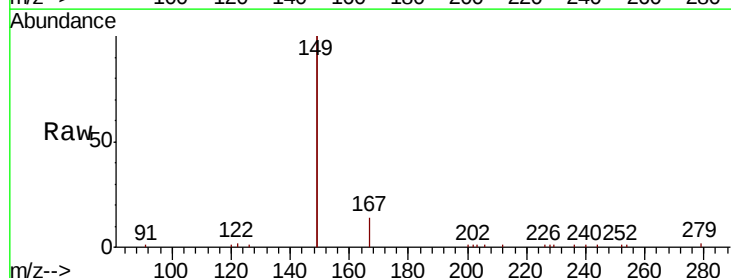
Tgt Ion:149 Resp: 16890

Ion Ratio Lower Upper

149 100

167 6.8 5.7 8.5

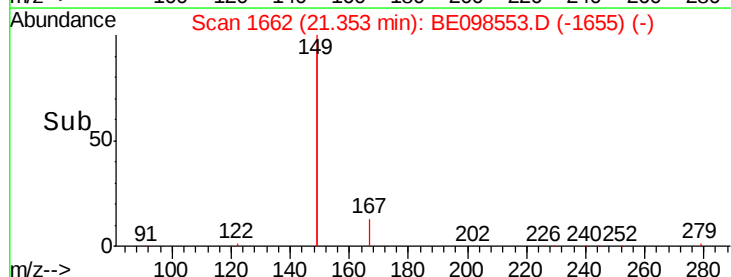
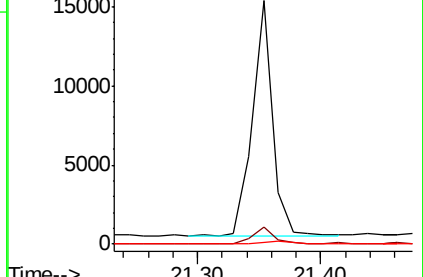
279 1.1 1.0 1.4



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: 0.369 ng

RT: 26.66 min Scan# 3012

Delta R.T. -0.04 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB115910BS

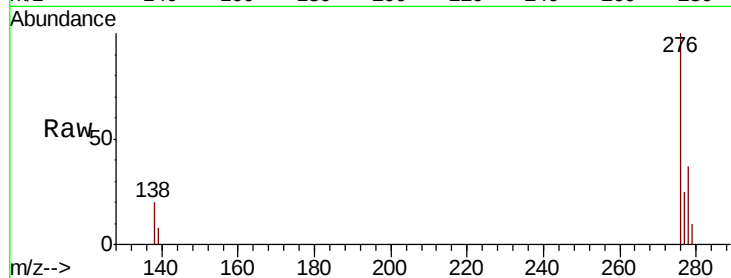
Tgt Ion:276 Resp: 9645

Ion Ratio Lower Upper

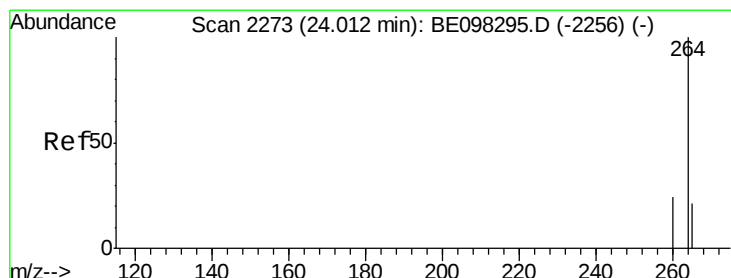
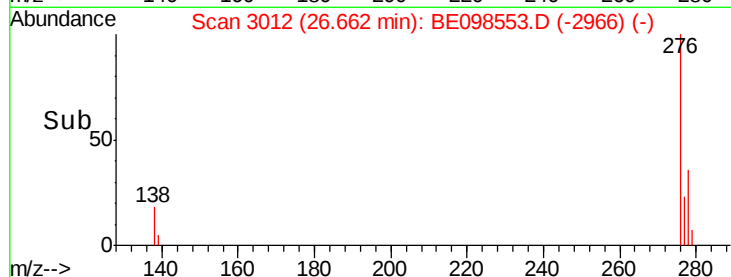
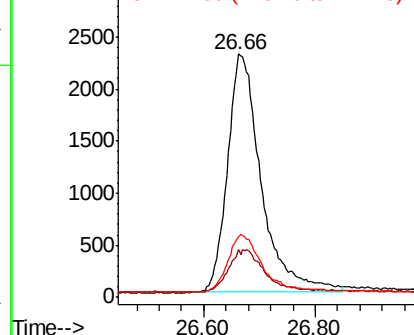
276 100

138 18.4 16.3 24.5

277 24.1 20.2 30.4



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: 23.99 min Scan# 2266

Delta R.T. -0.03 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

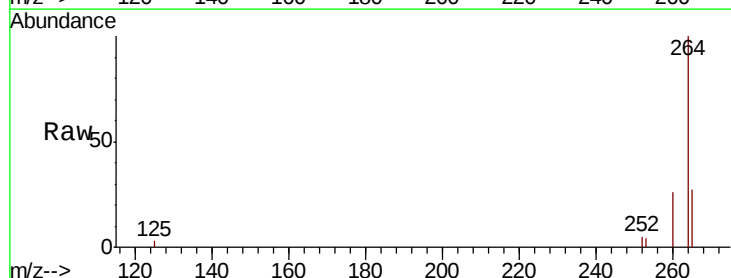
Tgt Ion:264 Resp: 8031

Ion Ratio Lower Upper

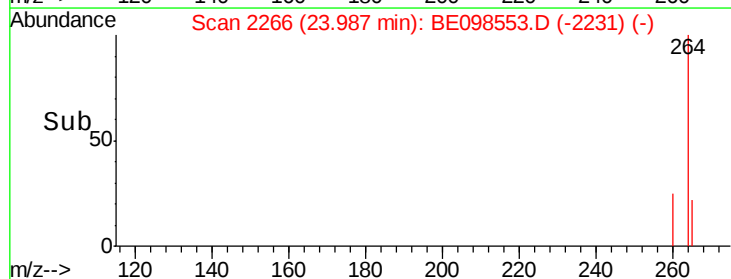
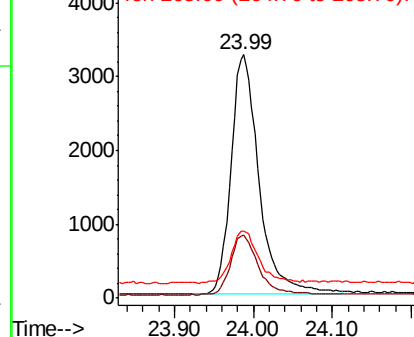
264 100

260 25.8 20.2 30.2

265 27.3 25.2 37.8



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

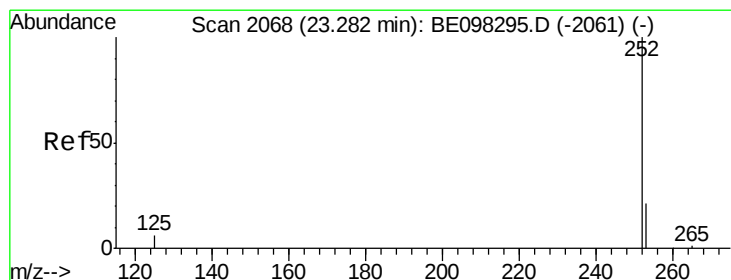
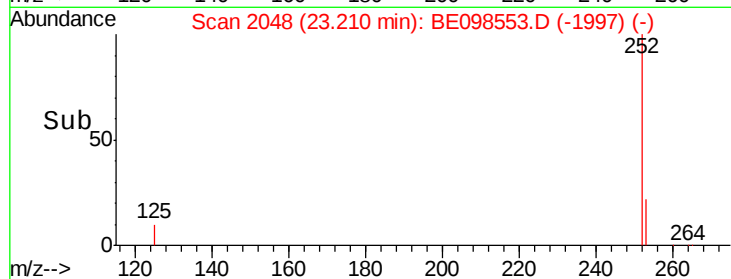
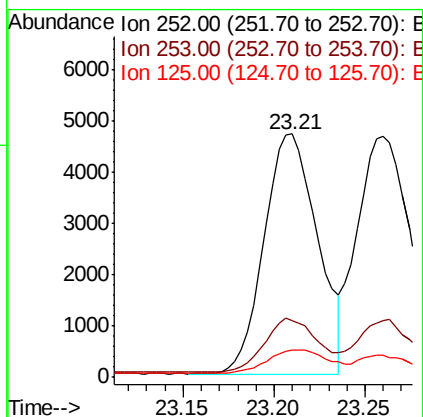
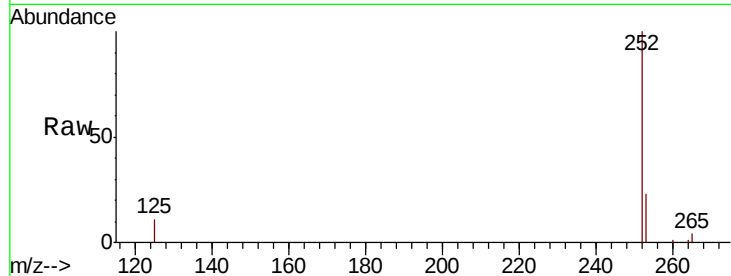




#35
Benzo(b)fluoranthene
Concen: 0.435 ng
RT: 23.21 min Scan# 2048
Delta R.T. -0.02 min
Lab File: BE098553.D
Acq: 21 Dec 2018 15:52

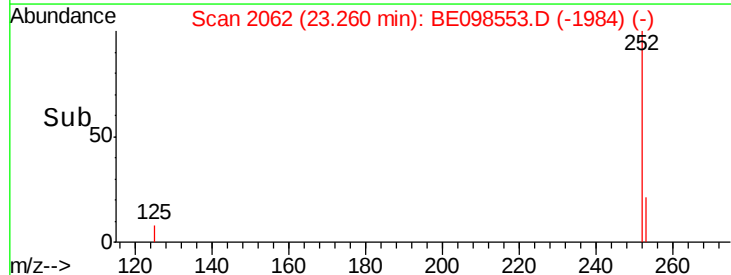
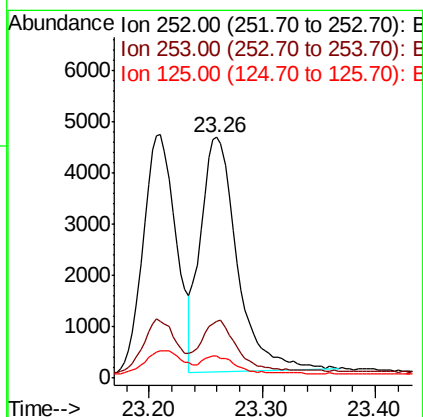
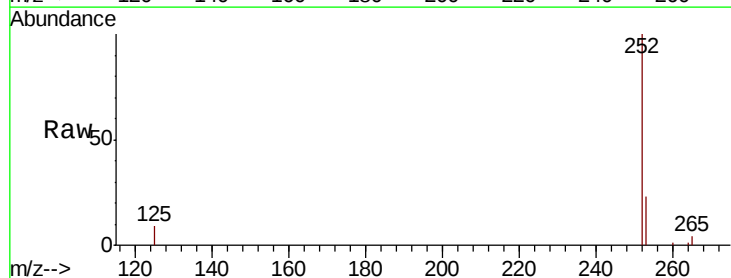
Instrument :
BNA_E
ClientSampleId :
PB115910BS

Tgt Ion: 252 Resp: 9552
Ion Ratio Lower Upper
252 100
253 23.5 20.0 30.0
125 11.5 9.6 14.4



#36
Benzo(k)fluoranthene
Concen: 0.400 ng
RT: 23.26 min Scan# 2062
Delta R.T. -0.02 min
Lab File: BE098553.D
Acq: 21 Dec 2018 15:52

Tgt Ion: 252 Resp: 10246
Ion Ratio Lower Upper
252 100
253 23.5 19.0 28.6
125 9.1 9.1 13.7





#37

Benzo(a)pyrene

Concen: 0.402 ng

RT: 23.88 min Scan# 2235

Delta R.T. -0.02 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB115910BS

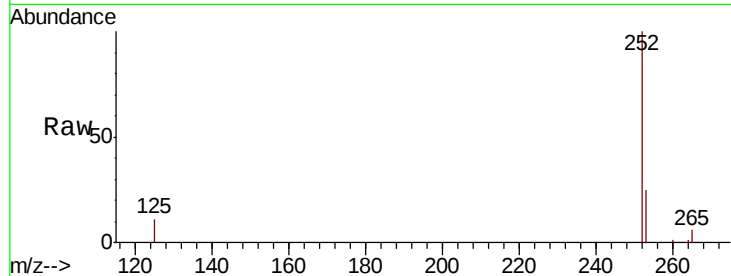
Tgt Ion:252 Resp: 9101

Ion Ratio Lower Upper

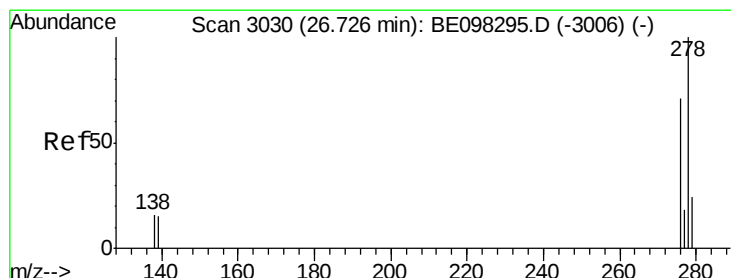
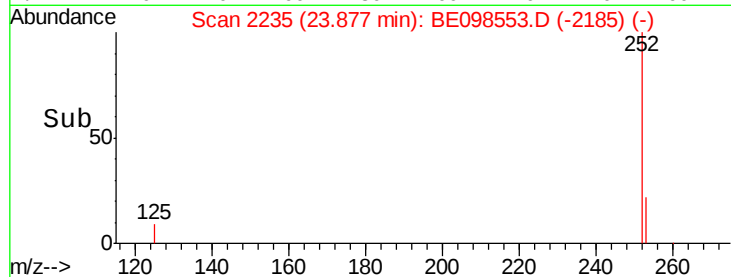
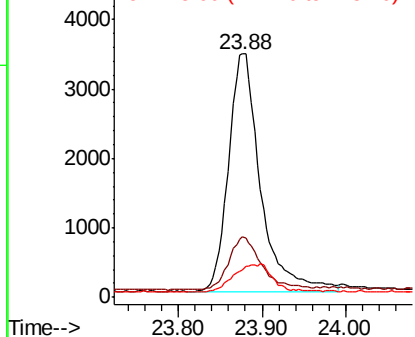
252 100

253 25.0 20.6 30.8

125 11.2 10.5 15.7



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: 0.361 ng

RT: 26.69 min Scan# 3020

Delta R.T. -0.04 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

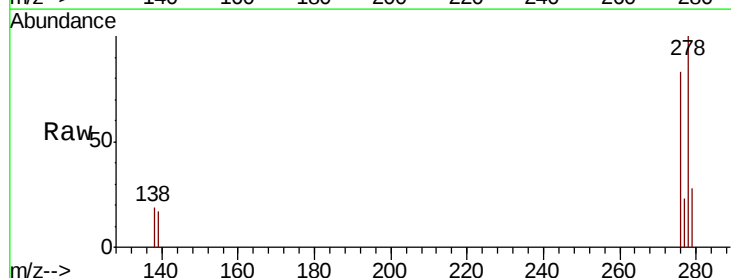
Tgt Ion:278 Resp: 7702

Ion Ratio Lower Upper

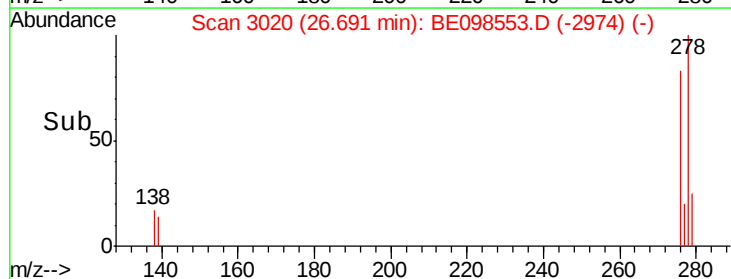
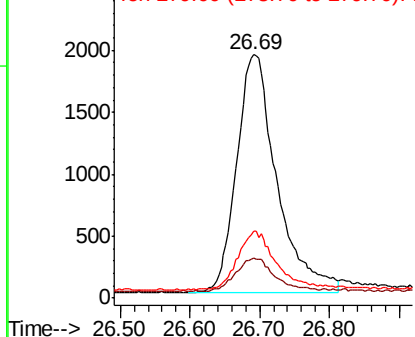
278 100

139 16.6 14.5 21.7

279 27.7 21.8 32.8



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: 0.382 ng

RT: 27.49 min Scan# 3243

Delta R.T. -0.04 min

Lab File: BE098553.D

Acq: 21 Dec 2018 15:52

Instrument :

BNA_E

ClientSampleId :

PB115910BS

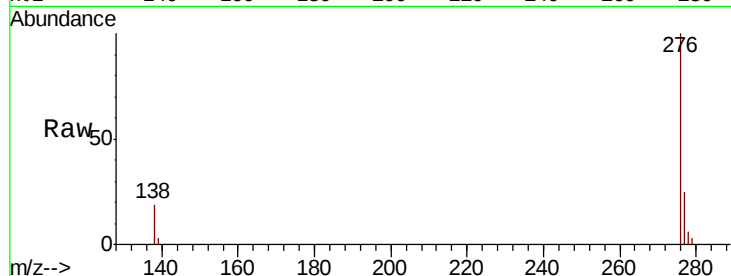
Tgt Ion: 276 Resp: 8214

Ion Ratio Lower Upper

276 100

277 25.2 20.8 31.2

138 18.6 15.8 23.6



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

