

Data Path : Z:\HPCHEM1\BNA E\DATA\BE120817\
 Data File : BE094958.D
 Acq On : 8 Dec 2017 20:44
 Operator : SJ/JU
 Sample : I6740-05
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Dec 09 00:28:31 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 01 13:33:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.47	152	7103	0.40	ng	-0.02
7) Naphthalene-d8	11.33	136	16187	0.40	ng	0.00
13) Acenaphthene-d10	15.06	164	9022	0.40	ng	-0.01
19) Phenanthrene-d10	17.77	188	21315	0.40	ng	0.00
27) Chrysene-d12	21.89	240	23690	0.40	ng	0.00
34) Perylene-d12	24.57	264	19368	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.95	112	2130	0.19	ng	0.00
5) Phenol-d6	7.60	99	2692	0.16	ng	0.01
8) Nitrobenzene-d5	9.66	82	5857	0.61	ng	0.00
11) 2-Methylnaphthalene-d10	12.86	152	10373	0.40	ng	0.00
14) 2,4,6-Tribromophenol	16.53	330	986	0.51	ng	0.00
15) 2-Fluorobiphenyl	13.71	172	25269	0.65	ng	0.00
25) Fluoranthene-d10	19.76	212	118447	0.41	ng	0.00
29) Terphenyl-d14	20.33	244	28603	0.65	ng	0.00

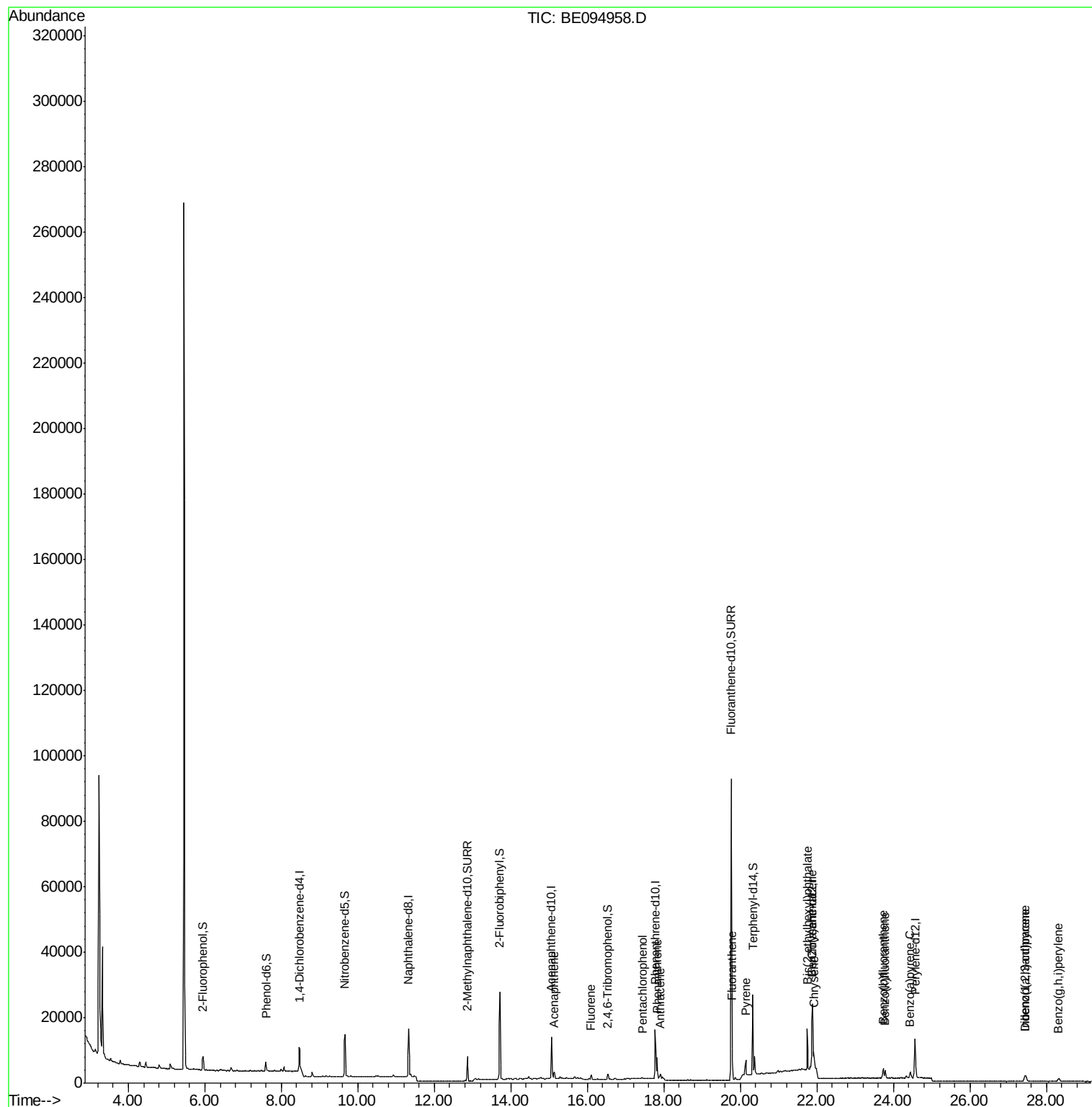
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
17) Acenaphthene	15.14	154	1243	0.038	ng	84
18) Fluorene	16.10	166	1022	0.024	ng	# 81
22) Pentachlorophenol	17.43	266	203	0.186	ng	84
23) Phenanthrene	17.82	178	6313	0.093	ng	95
24) Anthracene	17.91	178	2850	0.040	ng	# 57
26) Fluoranthene	19.79	202	7466	0.086	ng	98
28) Pyrene	20.14	202	5325	0.065	ng	96
30) Benzo(a)anthracene	21.87	228	4739	0.065	ng	# 65
31) Chrysene	21.92	228	6084	0.076	ng	# 66
32) Bis(2-ethylhexyl)phthalate	21.75	149	17522	0.146	ng	# 99
33) Indeno(1,2,3-cd)pyrene	27.43	276	3325	0.051	ng	98
35) Benzo(b)fluoranthene	23.73	252	4430	0.063	ng	# 50
36) Benzo(k)fluoranthene	23.78	252	3469	0.048	ng	# 51
37) Benzo(a)pyrene	24.44	252	3172	0.051	ng	# 51
38) Dibenzo(a,h)anthracene	27.46	278	2501	0.044	ng	# 56
39) Benzo(g,h,i)perylene	28.32	276	2771	0.048	ng	# 60

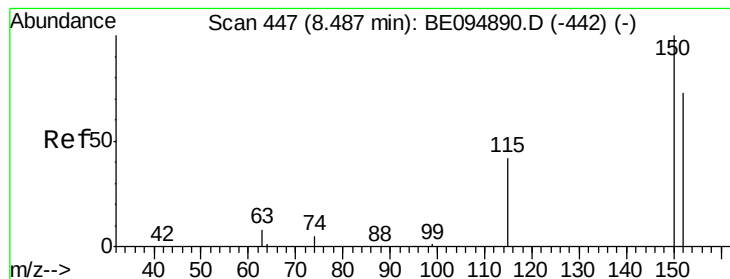
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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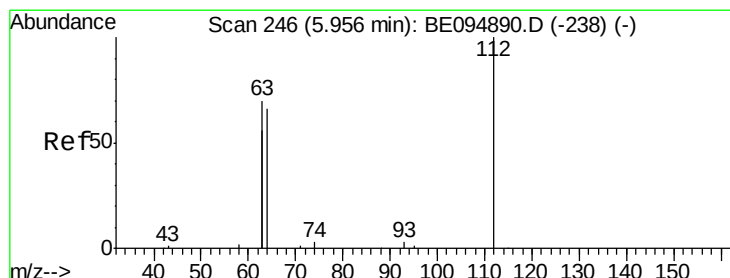
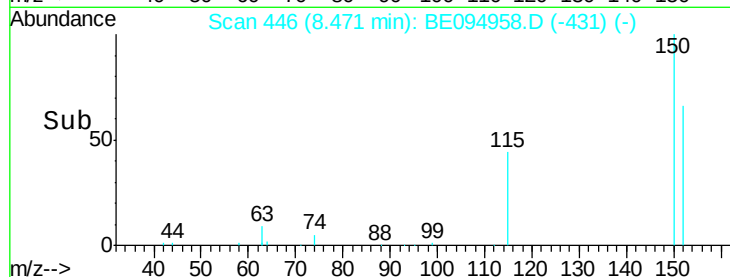
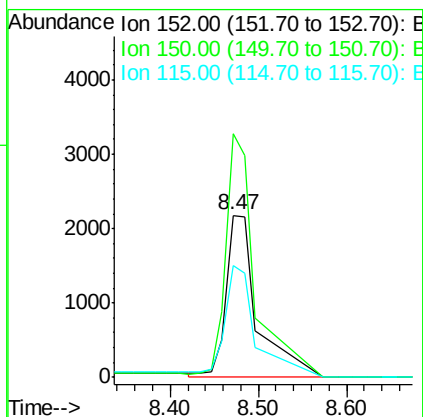
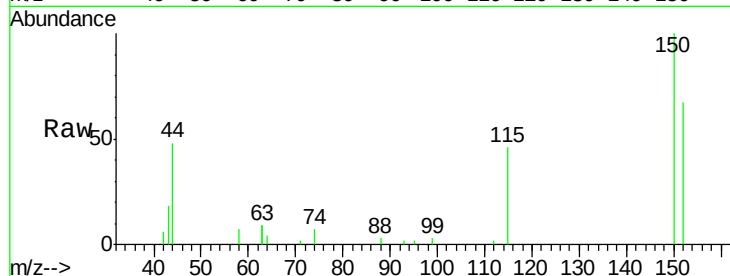


#1

1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.47 min Scan# 446
Delta R.T. -0.02 min
Lab File: BE094958.D
Acq: 8 Dec 2017 20:44

Instrument :
BNA_E
ClientSampleId :

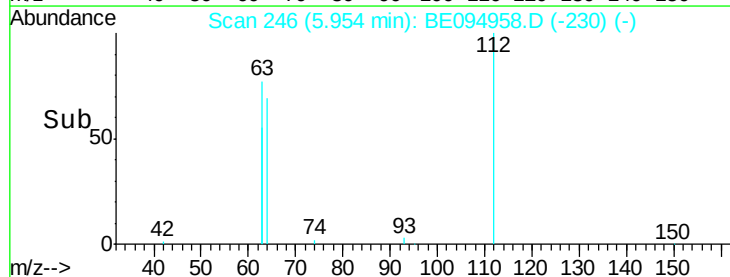
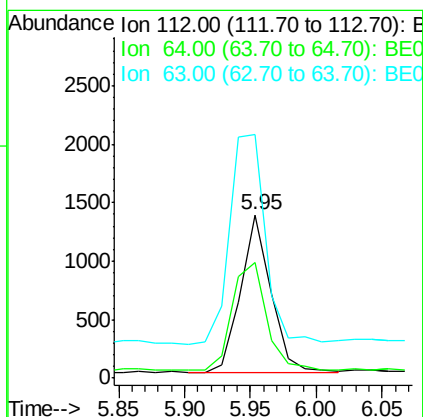
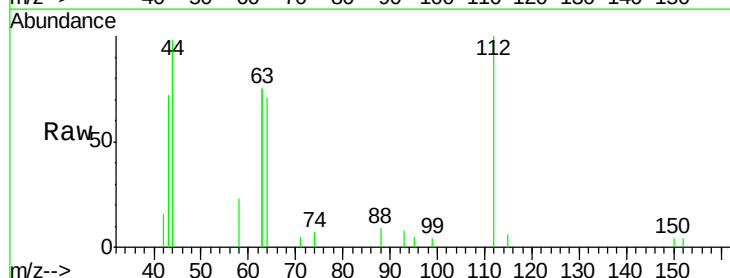
Tot Ion:152 Resp: 7103
Ion Ratio Lower Upper
152 100
150 150.3 117.2 175.8
115 69.1 57.0 85.6

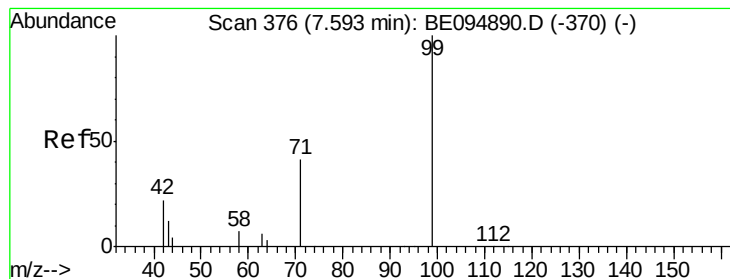


#4

2-Fluorophenol
Concen: 0.189 ng
RT: 5.95 min Scan# 246
Delta R.T. -0.00 min
Lab File: BE094958.D
Acq: 8 Dec 2017 20:44

Tgt Ion:112 Resp: 2130
Ion Ratio Lower Upper
112 100
64 79.5 60.1 90.1
63 157.9 116.8 175.2





#5

Phenol-d6

Concen: 0.162 ng

RT: 7.60 min Scan# 377

Delta R.T. 0.01 min

Lab File: BE094958.D

Acq: 8 Dec 2017 20:44

Instrument :

BNA_E

ClientSampleId :

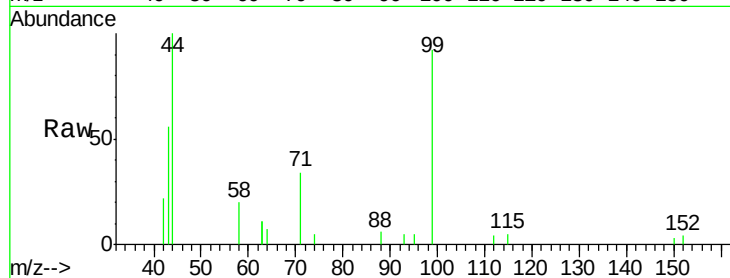
Tot Ion: 99 Resp: 2692

Ion Ratio Lower Upper

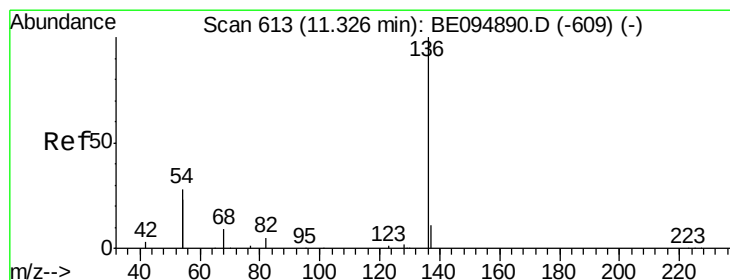
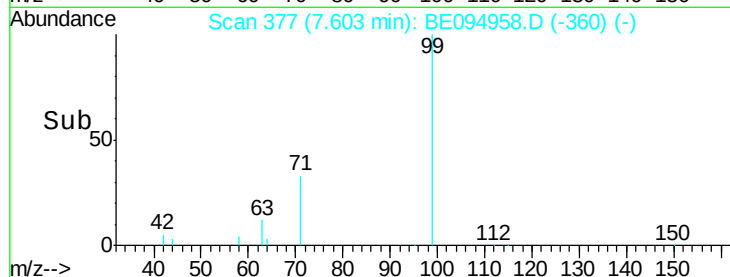
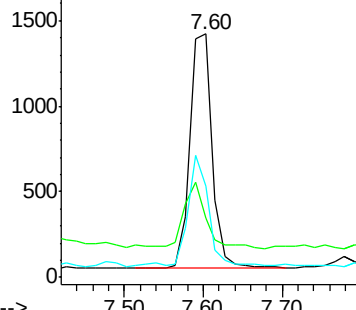
99 100

42 27.0 20.2 30.2

71 44.5 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



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.33 min Scan# 613

Delta R.T. 0.00 min

Lab File: BE094958.D

Acq: 8 Dec 2017 20:44

Tgt Ion: 136 Resp: 16187

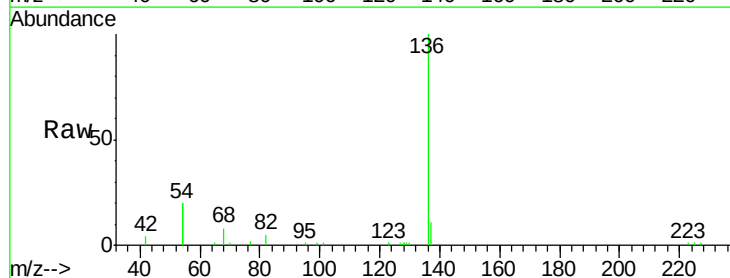
Ion Ratio Lower Upper

136 100

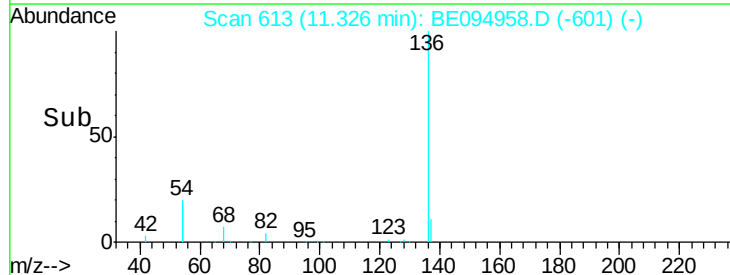
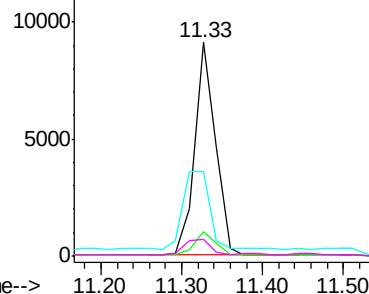
137 11.3 9.5 14.3

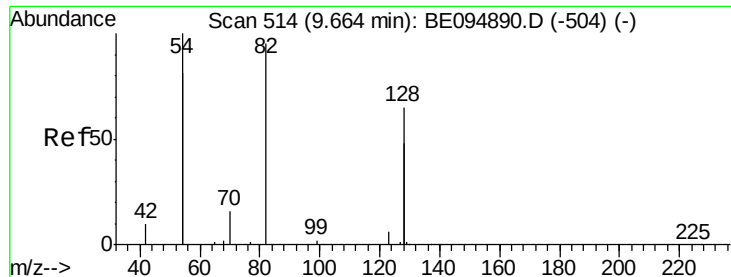
54 39.7 29.1 43.7

68 8.1 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: 0.611 ng

RT: 9.66 min Scan# 514

Delta R.T. 0.00 min

Lab File: BE094958.D

Acq: 8 Dec 2017 20:44

Instrument :

BNA_E

ClientSampleId :

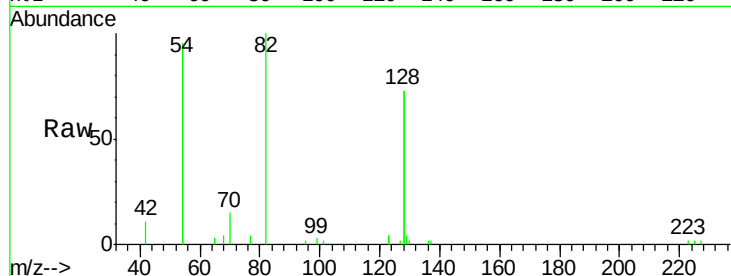
Tot Ion: 82 Resp: 5857

Ion Ratio Lower Upper

82 100

128 145.8 150.0 225.0#

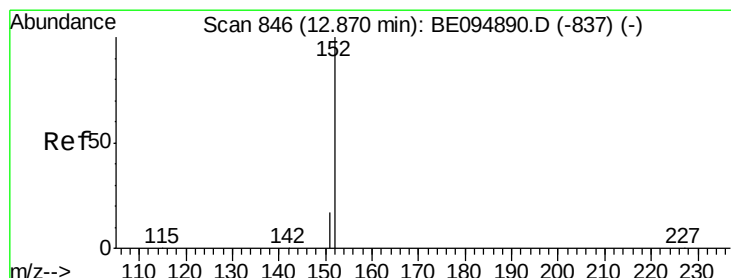
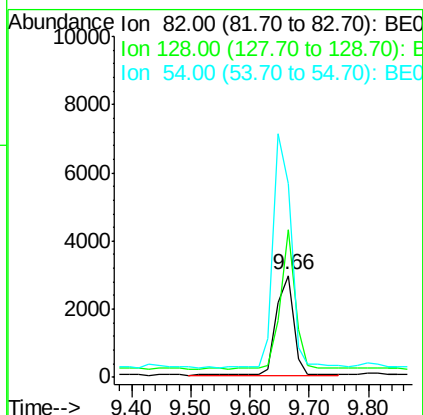
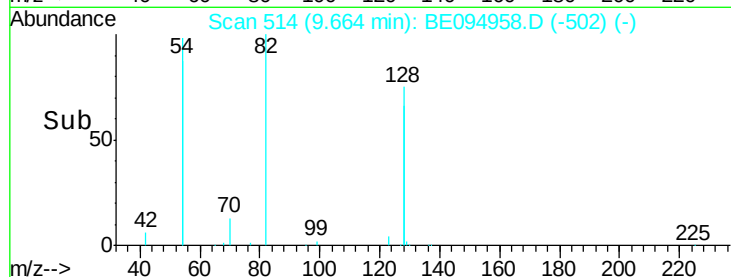
54 190.3 154.2 231.4



Abundance Ion 82.00 (81.70 to 82.70): BE094890.D (-504) (-)

Ion 128.00 (127.70 to 128.70): BE094890.D (-504) (-)

Ion 54.00 (53.70 to 54.70): BE094890.D (-504) (-)



#11

2-Methylnaphthalene-d10

Concen: 0.402 ng

RT: 12.86 min Scan# 845

Delta R.T. -0.01 min

Lab File: BE094958.D

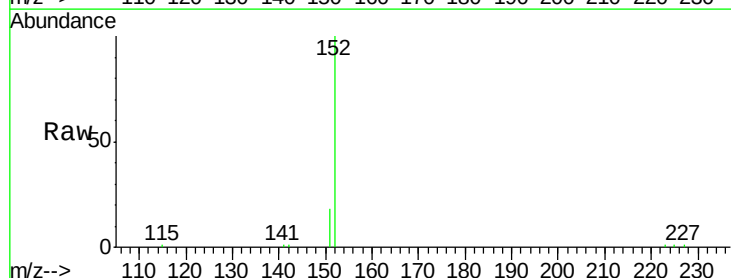
Acq: 8 Dec 2017 20:44

Tgt Ion: 152 Resp: 10373

Ion Ratio Lower Upper

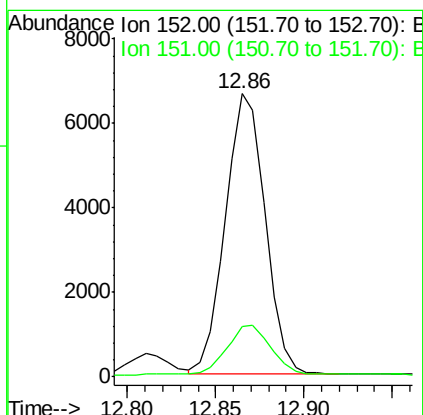
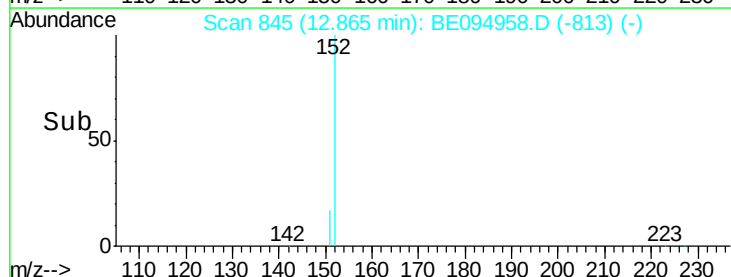
152 100

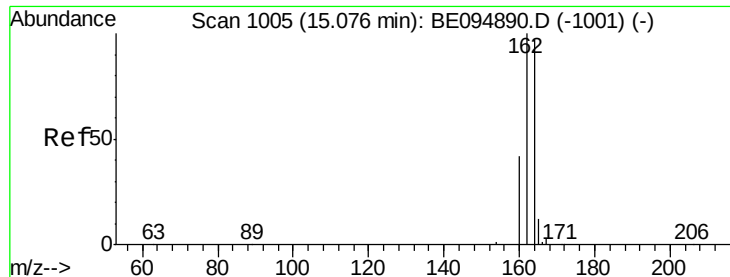
151 19.4 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): BE094890.D (-837) (-)

Ion 151.00 (150.70 to 151.70): BE094890.D (-837) (-)





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 15.06 min Scan# 1004

Delta R.T. -0.01 min

Lab File: BE094958.D

Acq: 8 Dec 2017 20:44

Instrument :

BNA_E

ClientSampleId :

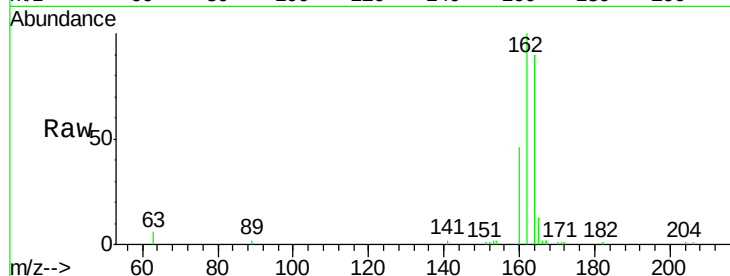
Tot Ion:164 Resp: 9022

Ion Ratio Lower Upper

164 100

162 110.6 83.1 124.7

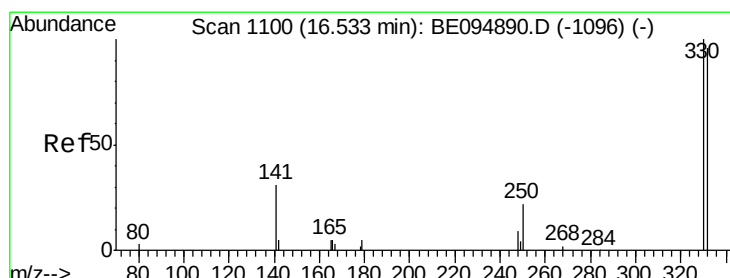
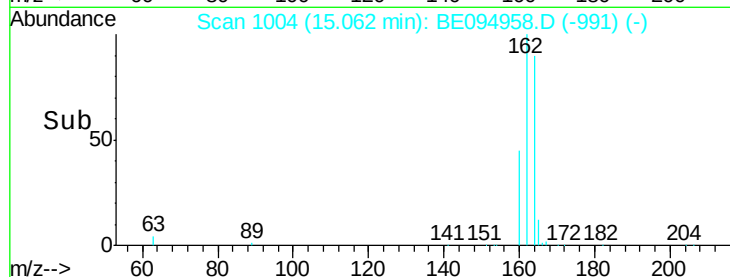
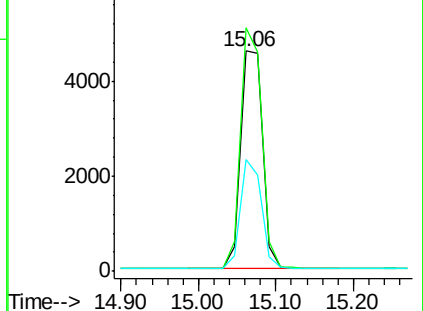
160 50.9 37.1 55.7



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: 0.507 ng

RT: 16.53 min Scan# 1100

Delta R.T. 0.00 min

Lab File: BE094958.D

Acq: 8 Dec 2017 20:44

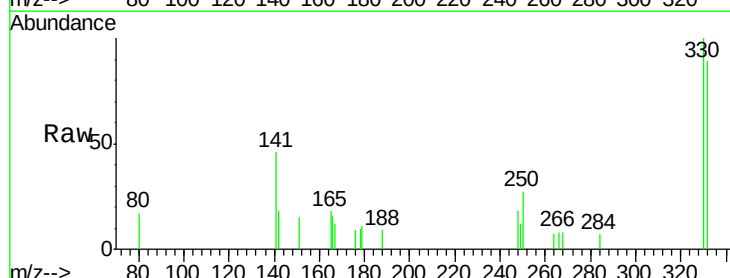
Tgt Ion:330 Resp: 986

Ion Ratio Lower Upper

330 100

332 94.7 152.7 229.1#

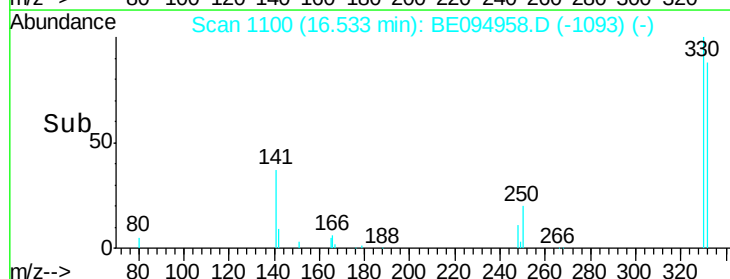
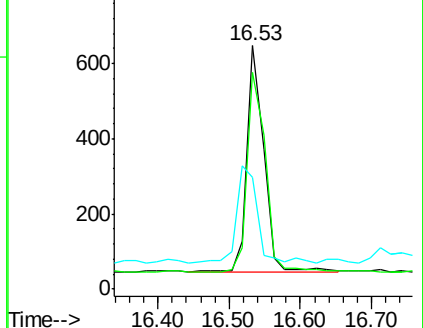
141 55.2 33.7 50.5#

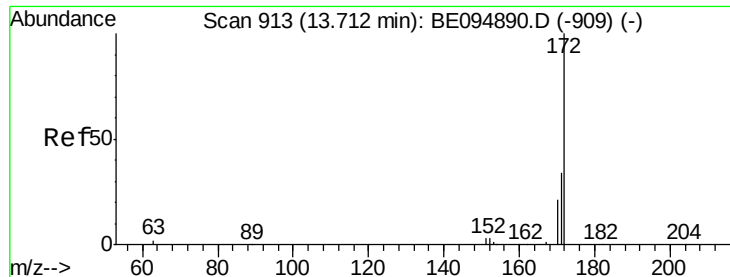


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

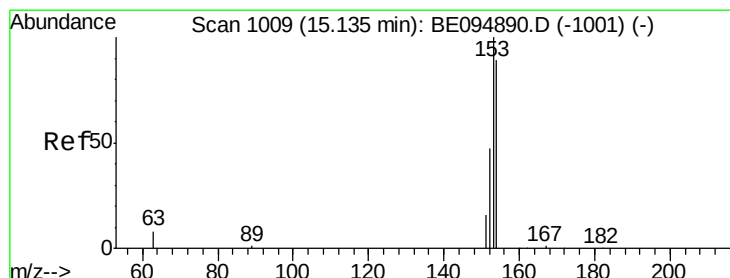
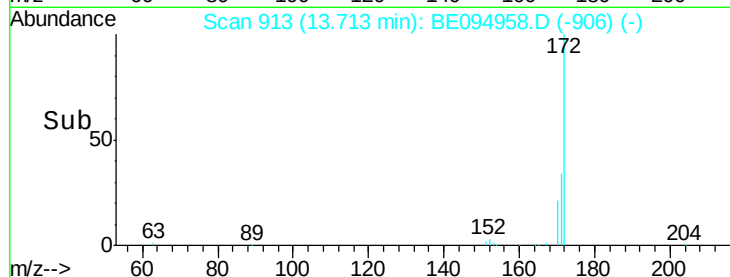
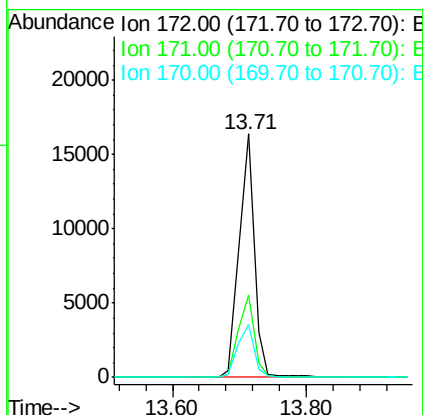
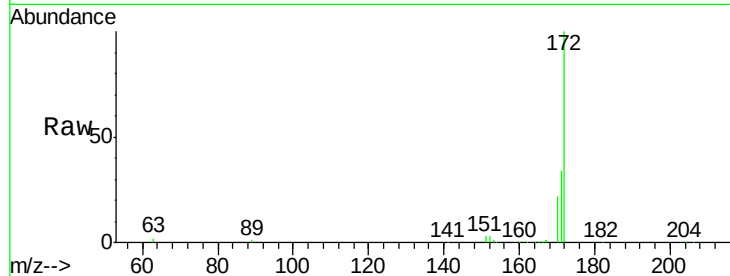




#15
2-Fluorobiphenyl
Concen: 0.654 ng
RT: 13.71 min Scan# 913
Delta R.T. 0.00 min
Lab File: BE094958.D
Acq: 8 Dec 2017 20:44

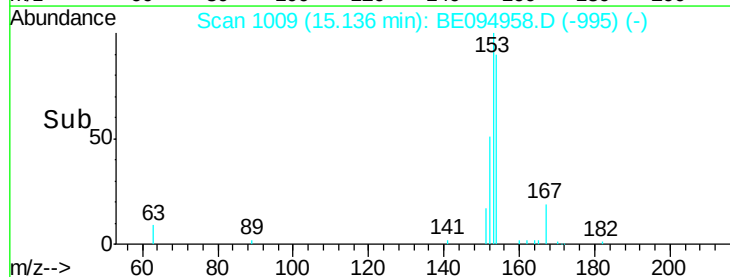
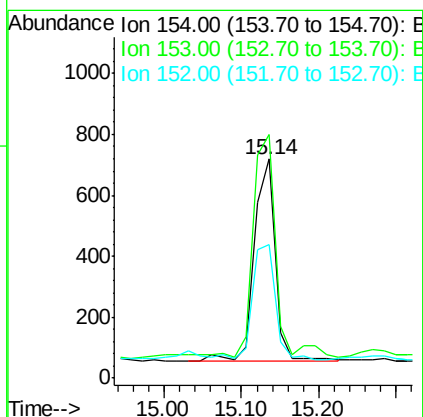
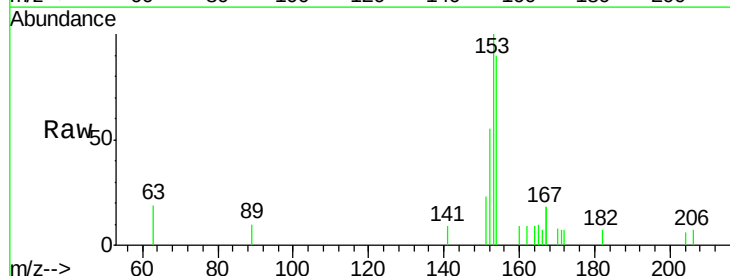
Instrument :
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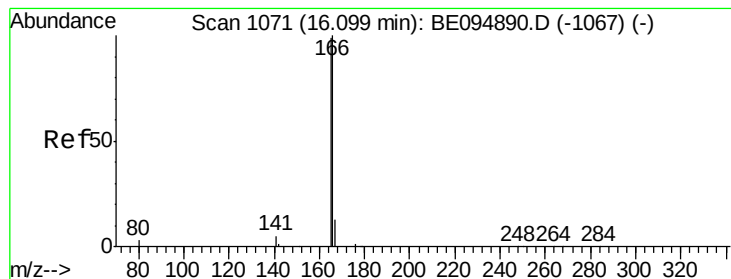
Tot Ion:172 Resp: 25269
Ion Ratio Lower Upper
172 100
171 33.8 29.9 44.9
170 21.6 21.8 32.8#



#17
Acenaphthene
Concen: 0.038 ng
RT: 15.14 min Scan# 1009
Delta R.T. 0.00 min
Lab File: BE094958.D
Acq: 8 Dec 2017 20:44

Tgt Ion:154 Resp: 1243
Ion Ratio Lower Upper
154 100
153 130.3 89.2 133.8
152 61.6 42.0 63.0





#18

Fluorene

Concen: 0.024 ng

RT: 16.10 min Scan# 1071

Delta R.T. 0.00 min

Lab File: BE094958.D

Acq: 8 Dec 2017 20:44

Instrument :

BNA_E

ClientSampleId :

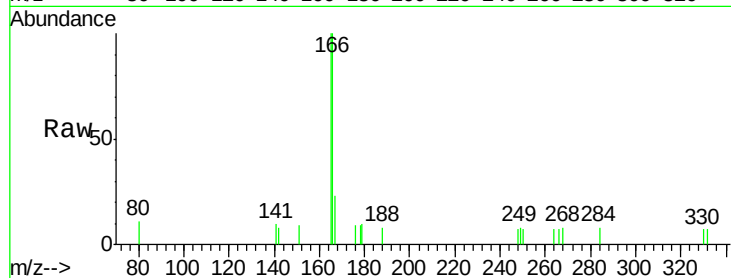
Tot Ion:166 Resp: 1022

Ion Ratio Lower Upper

166 100

165 93.8 77.8 116.6

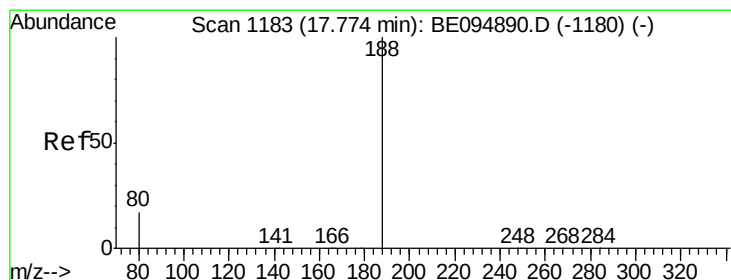
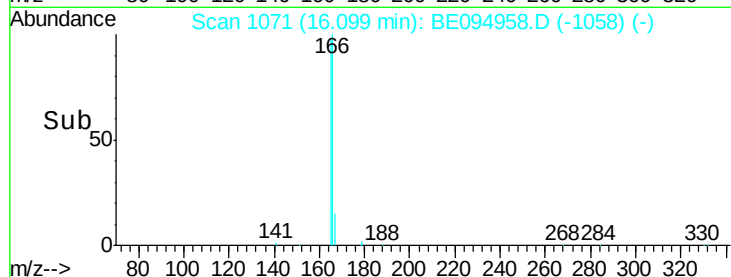
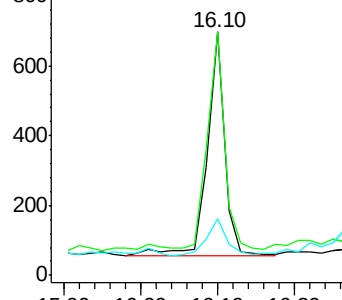
167 19.2 42.4 63.6#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.77 min Scan# 1183

Delta R.T. 0.00 min

Lab File: BE094958.D

Acq: 8 Dec 2017 20:44

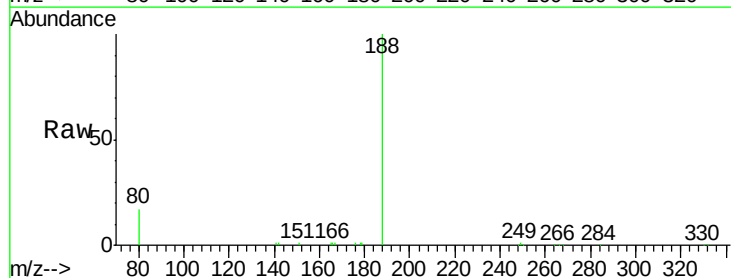
Tgt Ion:188 Resp: 21315

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

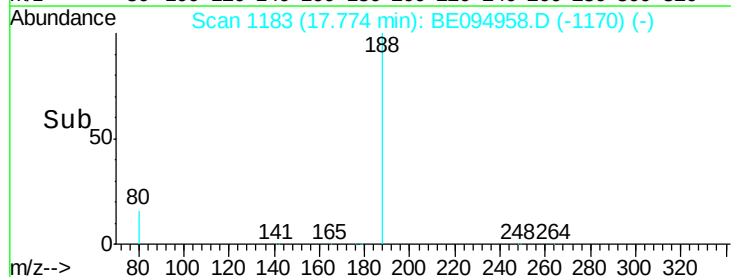
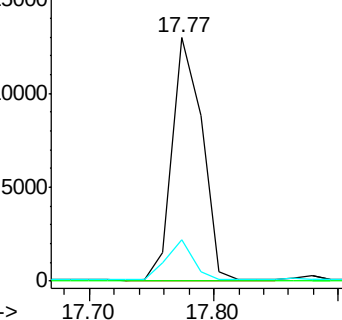
80 16.8 3.6 5.4#

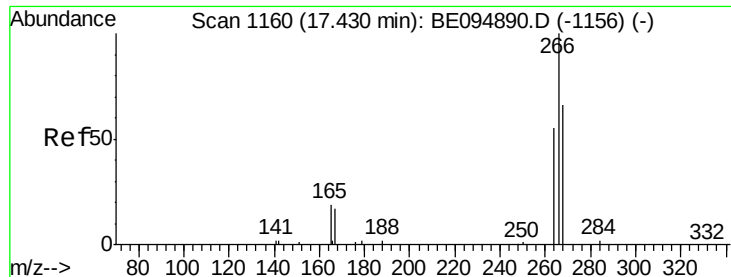


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#22

Pentachlorophenol

Concen: 0.186 ng

RT: 17.43 min Scan# 1160

Delta R.T. 0.00 min

Lab File: BE094958.D

Acq: 8 Dec 2017 20:44

Instrument :

BNA_E

ClientSampleId :

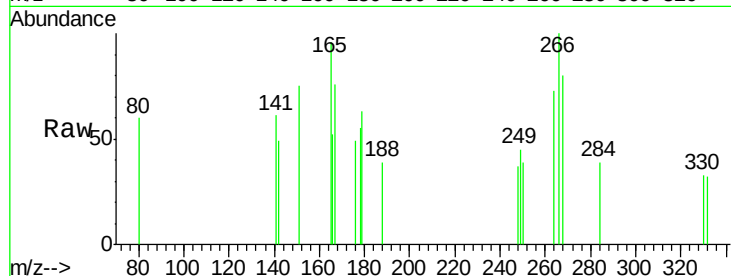
Tot Ion:266 Resp: 203

Ion Ratio Lower Upper

266 100

264 72.5 72.5 108.7

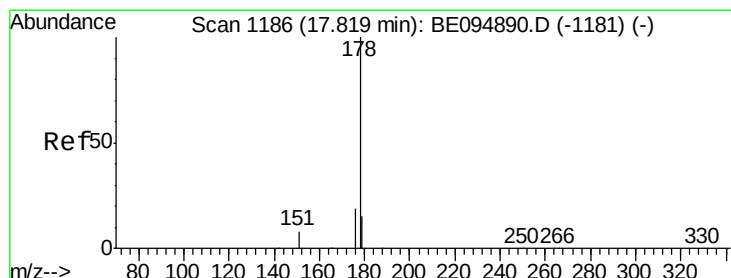
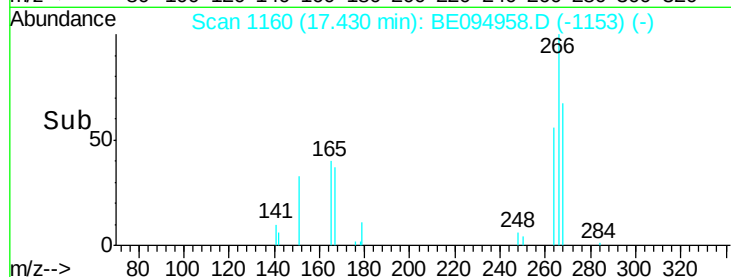
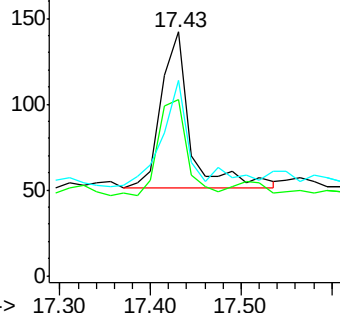
268 80.3 73.8 110.6



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: 0.093 ng

RT: 17.82 min Scan# 1186

Delta R.T. 0.00 min

Lab File: BE094958.D

Acq: 8 Dec 2017 20:44

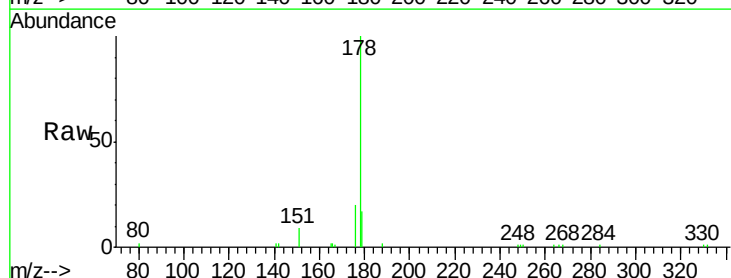
Tgt Ion:178 Resp: 6313

Ion Ratio Lower Upper

178 100

176 20.4 15.1 22.7

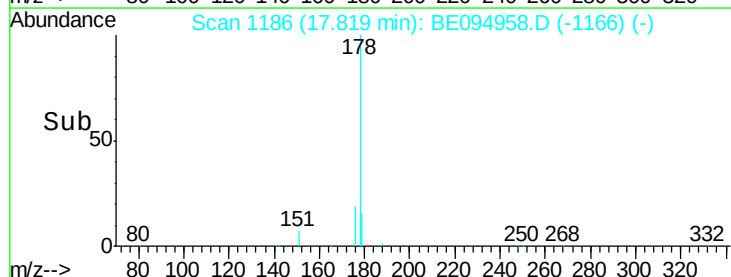
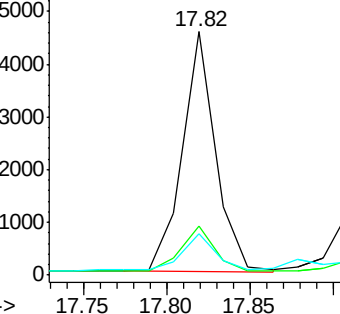
179 17.5 11.8 17.6

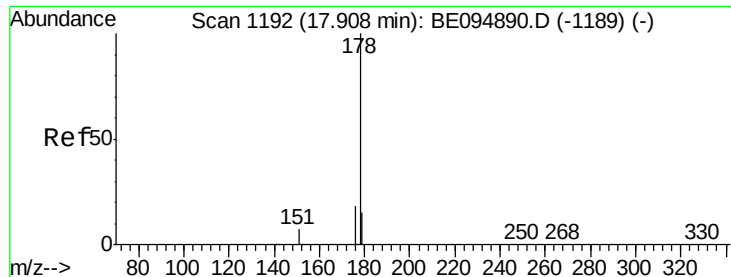


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.040 ng

RT: 17.91 min Scan# 1192

Delta R.T. 0.00 min

Lab File: BE094958.D

Acq: 8 Dec 2017 20:44

Instrument :

BNA_E

ClientSampleId :

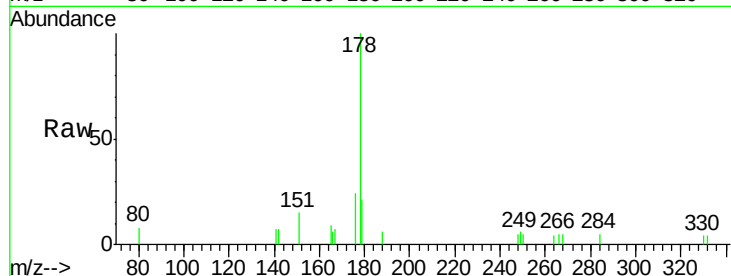
Tot Ion:178 Resp: 2850

Ion Ratio Lower Upper

178 100

176 36.0 12.8 19.2#

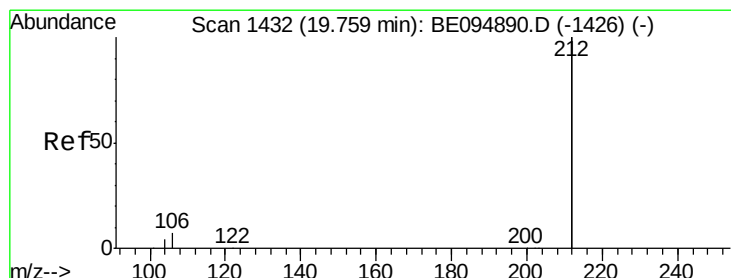
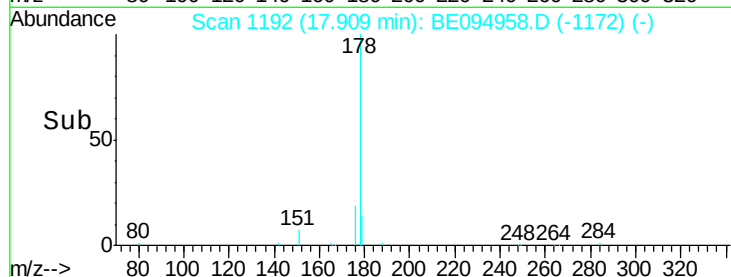
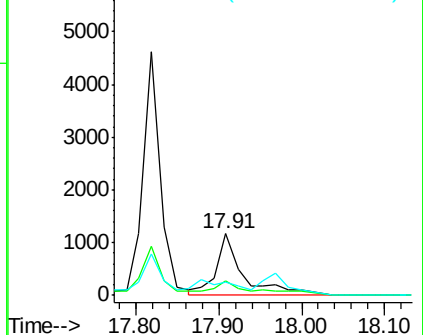
179 0.0 13.0 19.6#



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: 0.407 ng

RT: 19.76 min Scan# 1432

Delta R.T. 0.00 min

Lab File: BE094958.D

Acq: 8 Dec 2017 20:44

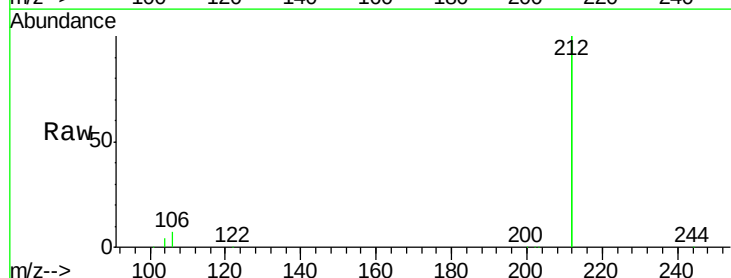
Tgt Ion:212 Resp: 118447

Ion Ratio Lower Upper

212 100

106 3.4 2.8 4.2

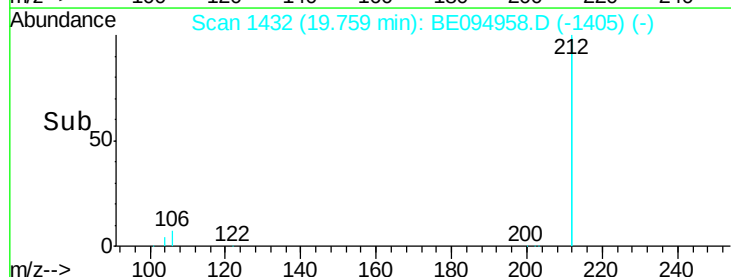
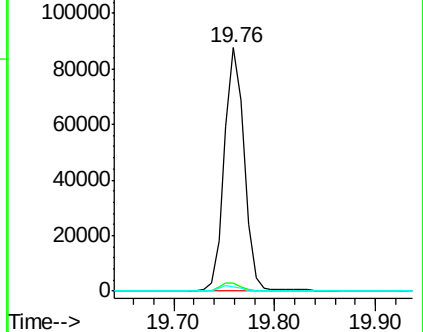
104 2.0 1.6 2.4

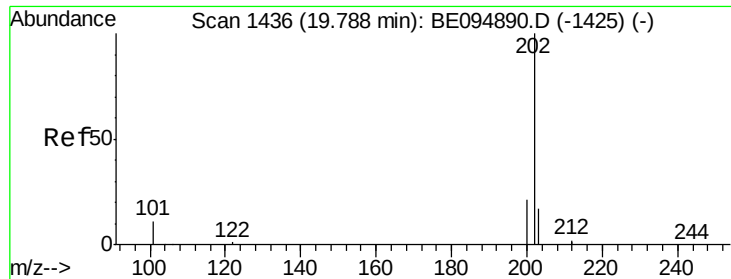


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

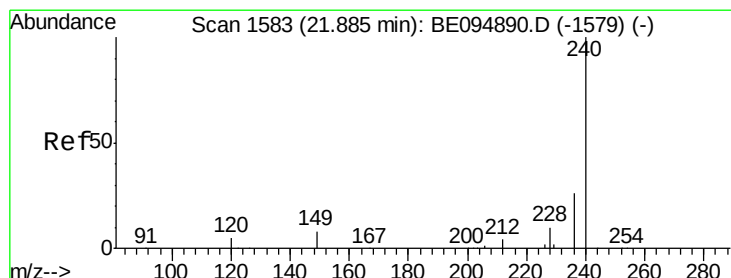
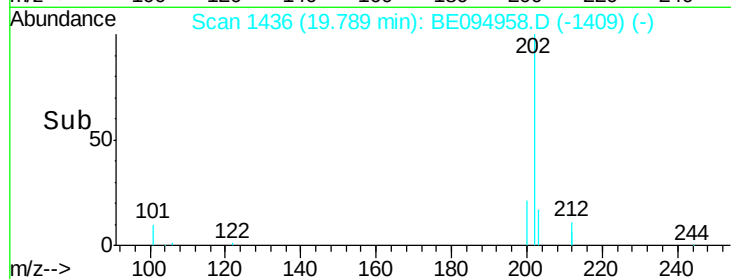
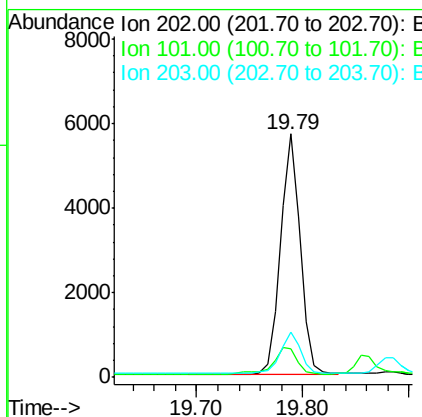
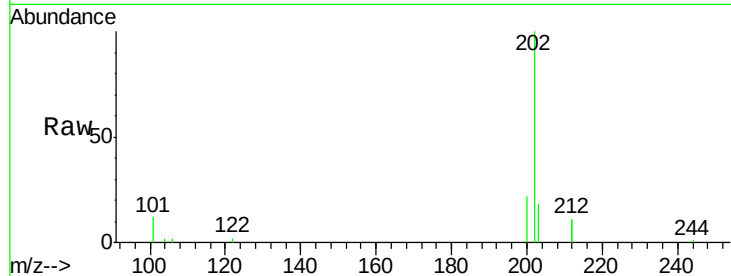




#26
 Fluoranthene
 Concen: 0.086 ng
 RT: 19.79 min Scan# 1436
 Delta R.T. 0.00 min
 Lab File: BE094958.D
 Acq: 8 Dec 2017 20:44

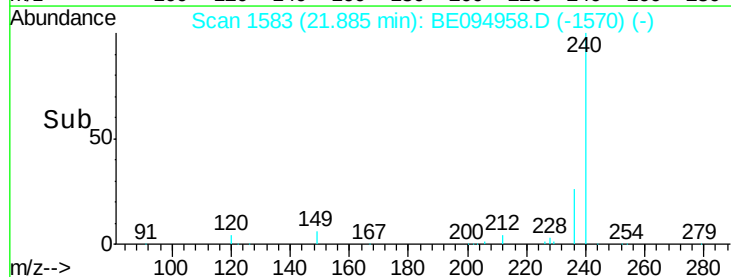
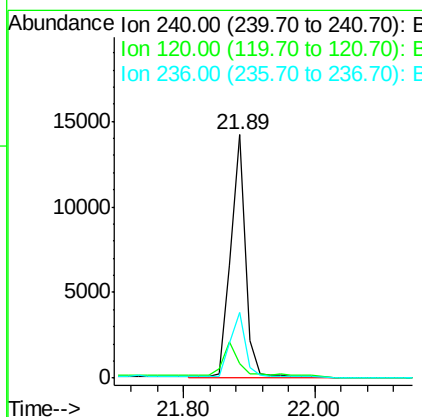
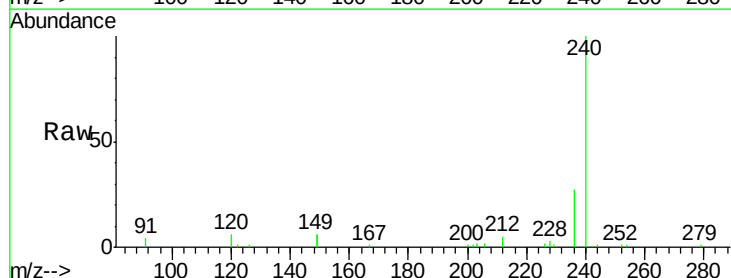
Instrument :
 BNA_E
 ClientSampleId :

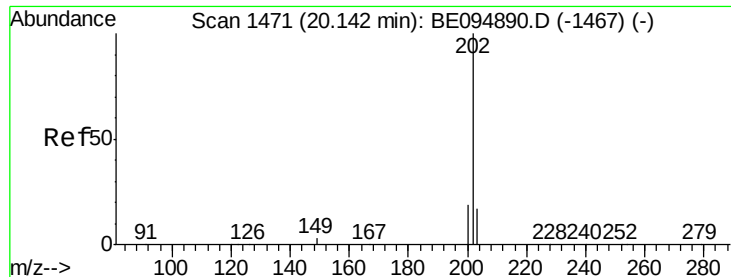
Tot Ion:202 Resp: 7466
 Ion Ratio Lower Upper
 202 100
 101 13.5 9.8 14.8
 203 16.9 13.7 20.5



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.89 min Scan# 1583
 Delta R.T. 0.00 min
 Lab File: BE094958.D
 Acq: 8 Dec 2017 20:44

Tgt Ion:240 Resp: 23690
 Ion Ratio Lower Upper
 240 100
 120 5.8 5.5 8.3
 236 26.9 20.7 31.1

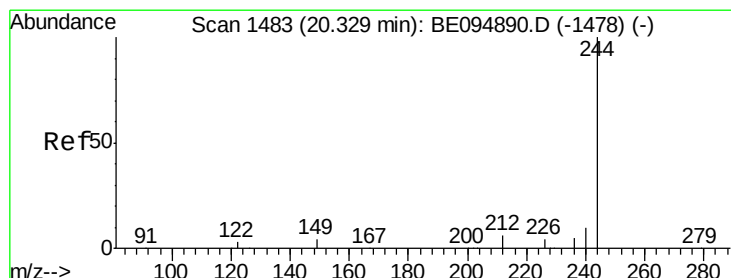
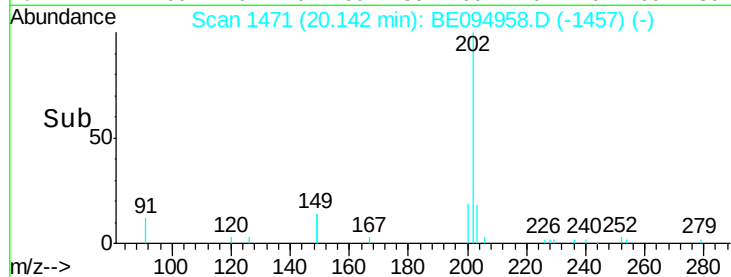
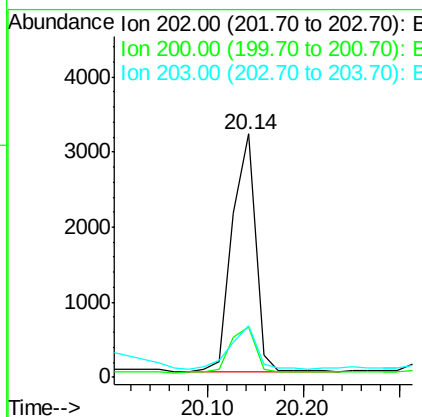
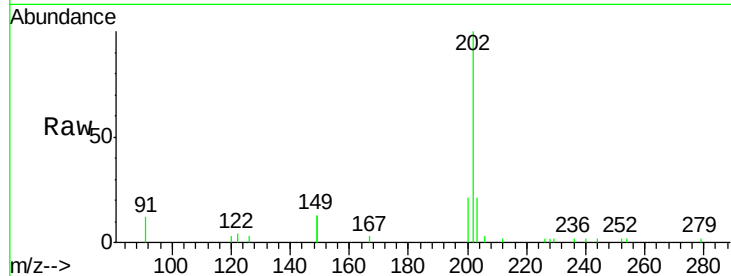




#28
 Pvrene
 Concen: 0.065 ng
 RT: 20.14 min Scan# 1471
 Delta R.T. 0.00 min
 Lab File: BE094958.D
 Acq: 8 Dec 2017 20:44

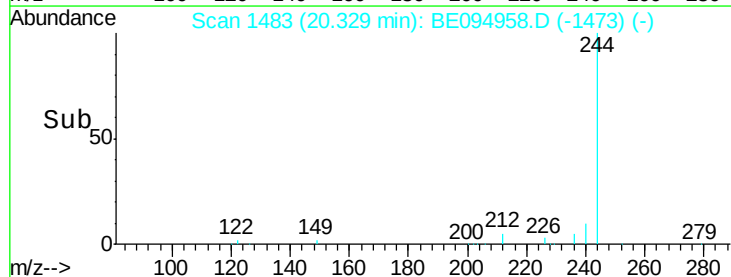
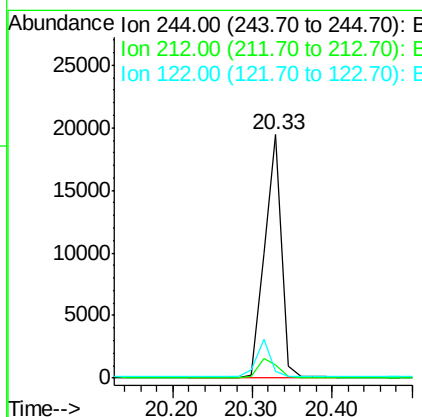
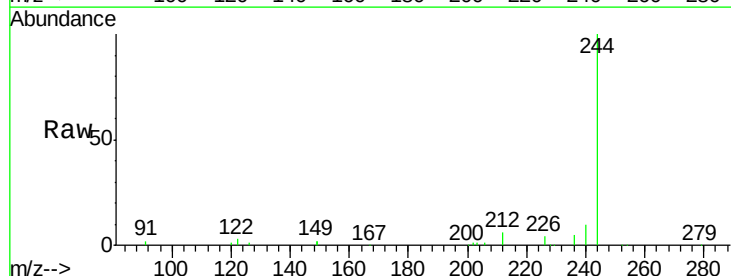
Instrument :
 BNA_E
 ClientSampleId :

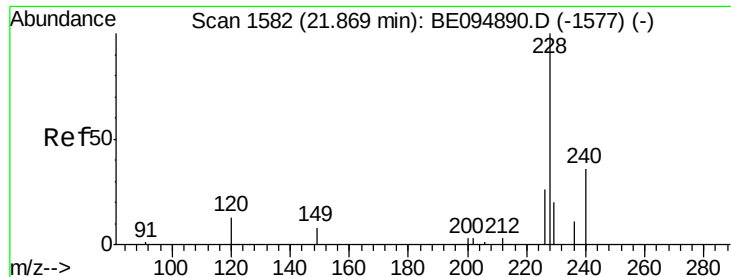
Tot Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.6	25.0
203	20.3	13.8	20.8



#29
 Terphenyl-d14
 Concen: 0.654 ng
 RT: 20.33 min Scan# 1483
 Delta R.T. 0.00 min
 Lab File: BE094958.D
 Acq: 8 Dec 2017 20:44

Tgt Ion	Ratio	Lower	Upper
244	100		
212	5.6	25.4	38.0#
122	2.8	8.1	12.1#





#30

Benzo(a)anthracene

Concen: 0.065 ng

RT: 21.87 min Scan# 1582

Delta R.T. 0.00 min

Lab File: BE094958.D

Acq: 8 Dec 2017 20:44

Instrument :

BNA_E

ClientSampleId :

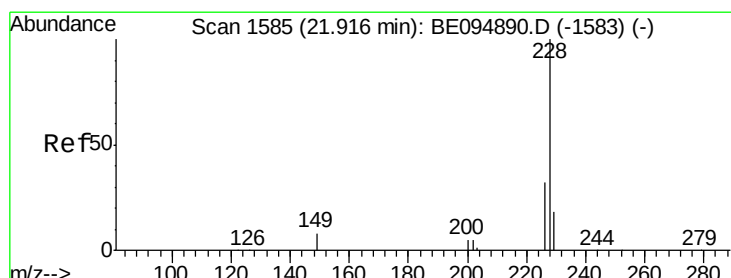
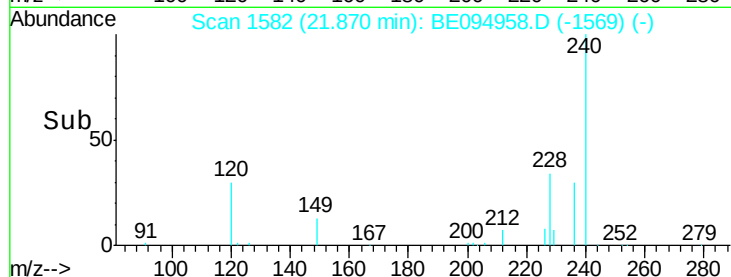
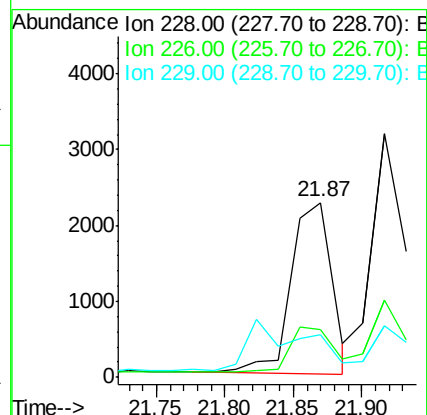
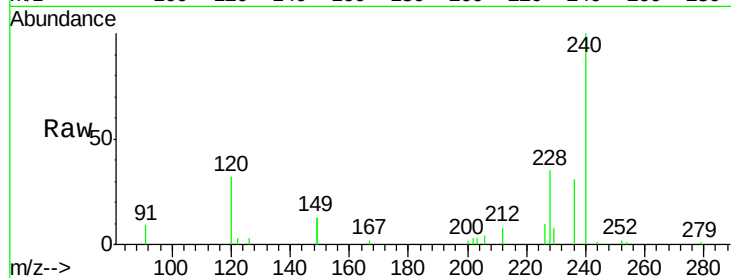
Tot Ion:228 Resp: 4739

Ion Ratio Lower Upper

228 100

226 27.6 40.0 60.0#

229 24.4 40.0 60.0#



#31

Chrysene

Concen: 0.076 ng

RT: 21.92 min Scan# 1585

Delta R.T. 0.00 min

Lab File: BE094958.D

Acq: 8 Dec 2017 20:44

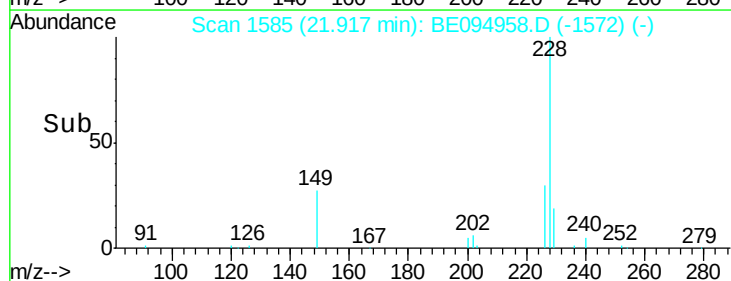
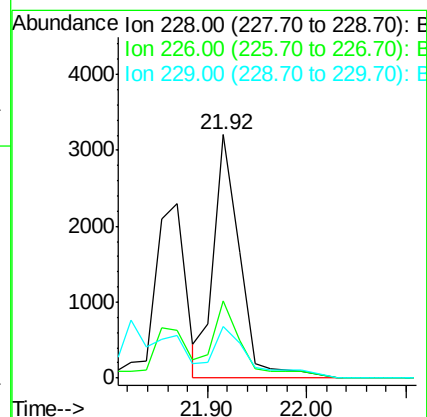
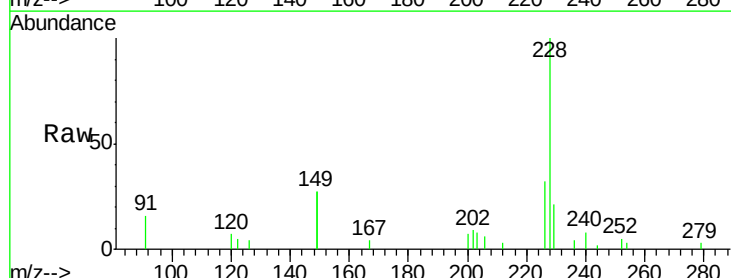
Tgt Ion:228 Resp: 6084

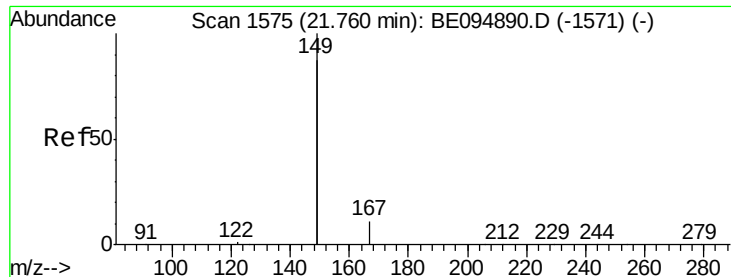
Ion Ratio Lower Upper

228 100

226 31.7 40.0 60.0#

229 21.3 40.0 60.0#

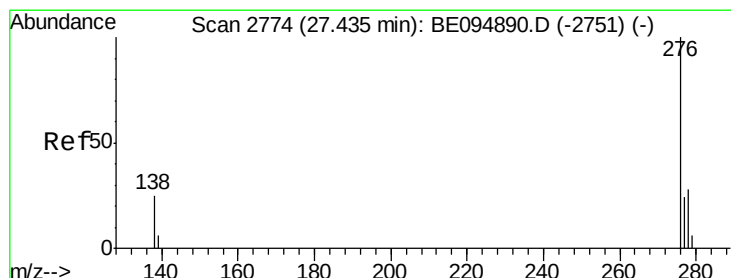
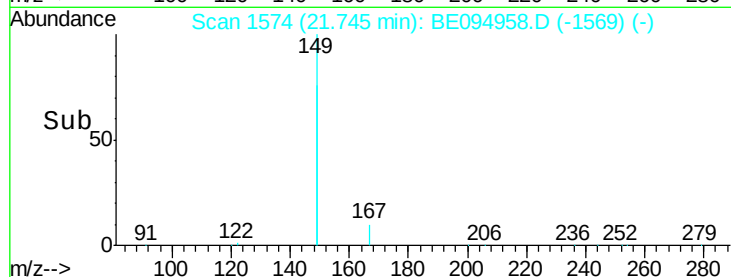
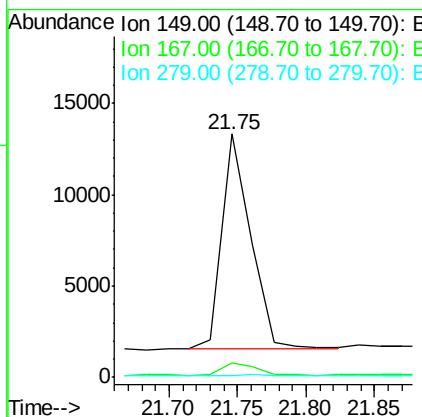
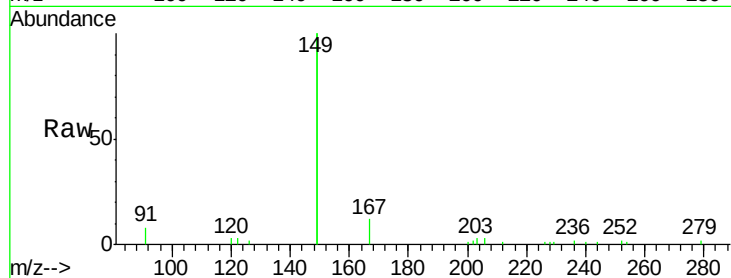




#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.146 ng
 RT: 21.75 min Scan# 1574
 Delta R.T. -0.02 min
 Lab File: BE094958.D
 Acq: 8 Dec 2017 20:44

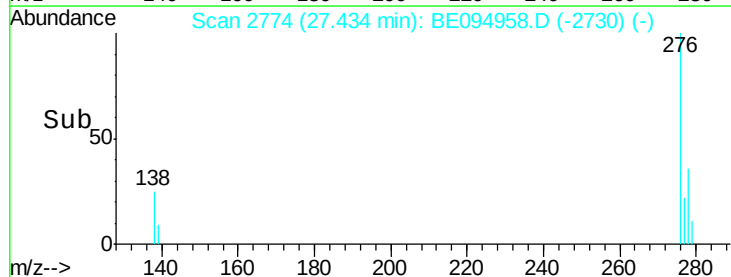
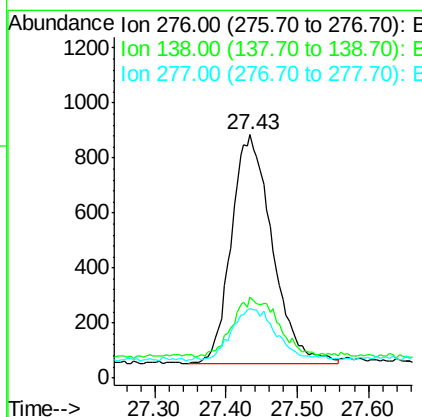
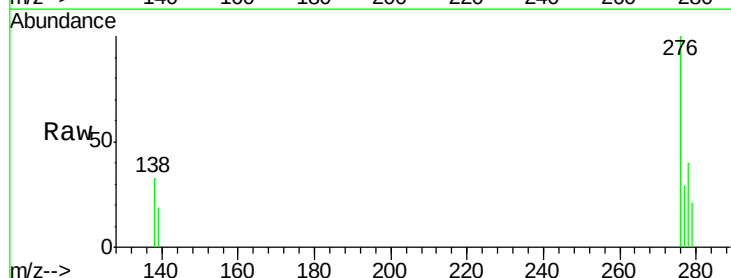
Instrument :
 BNA_E
 ClientSampleId :

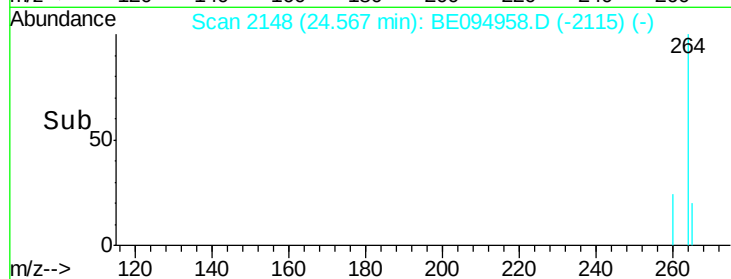
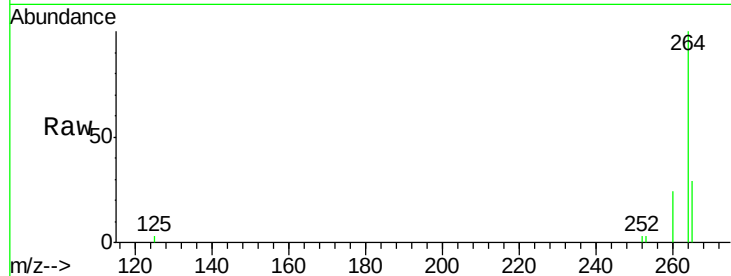
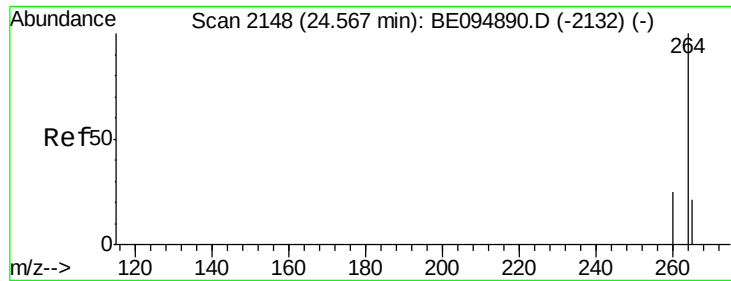
Tot Ion:149 Resp: 17522
 Ion Ratio Lower Upper
 149 100
 167 6.2 5.4 8.0
 279 1.2 0.7 1.1#



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.051 ng
 RT: 27.43 min Scan# 2774
 Delta R.T. -0.00 min
 Lab File: BE094958.D
 Acq: 8 Dec 2017 20:44

Tgt Ion:276 Resp: 3325
 Ion Ratio Lower Upper
 276 100
 138 29.3 22.5 33.7
 277 23.7 19.9 29.9

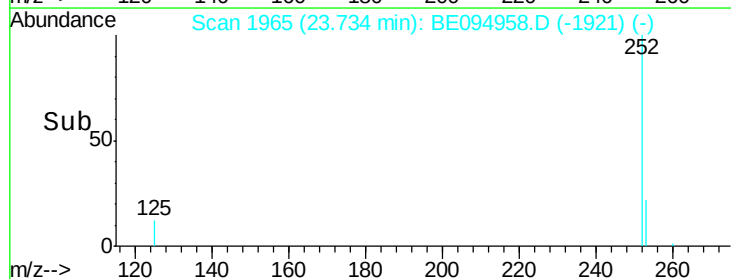
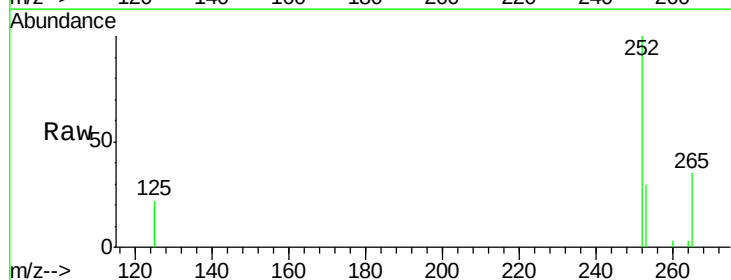
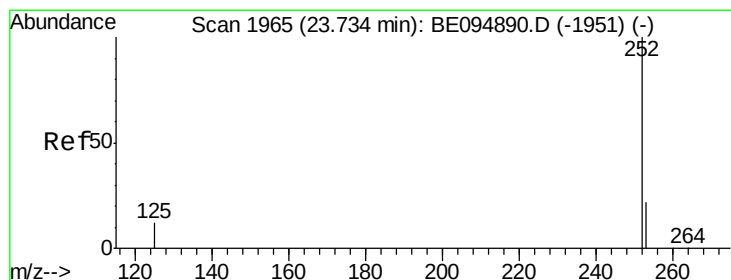
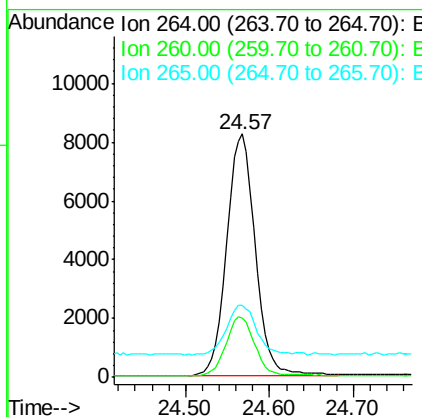




#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 24.57 min Scan# 2148
 Delta R.T. 0.00 min
 Lab File: BE094958.D
 Acq: 8 Dec 2017 20:44

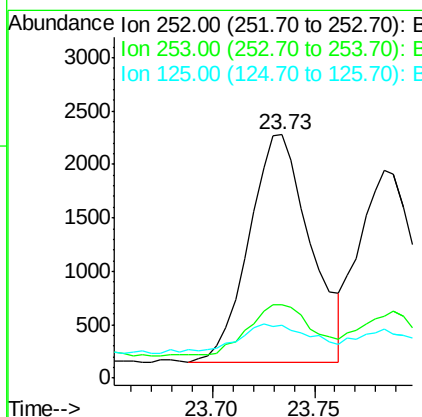
Instrument :
 BNA_E
 ClientSampleId :

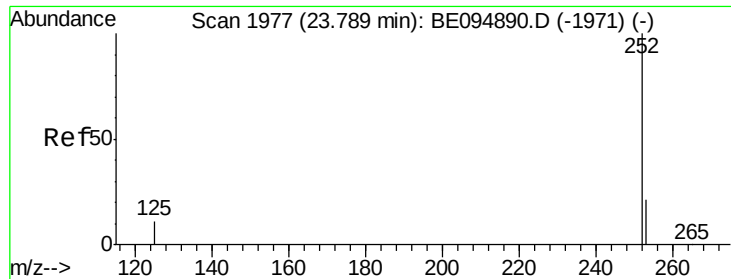
Tot Ion:264 Resp: 19368
 Ion Ratio Lower Upper
 264 100
 260 24.1 20.5 30.7
 265 29.5 22.8 34.2



#35
 Benzo(b)fluoranthene
 Concen: 0.063 ng
 RT: 23.73 min Scan# 1965
 Delta R.T. 0.00 min
 Lab File: BE094958.D
 Acq: 8 Dec 2017 20:44

Tgt Ion:252 Resp: 4430
 Ion Ratio Lower Upper
 252 100
 253 30.1 48.0 72.0#
 125 21.5 56.0 84.0#

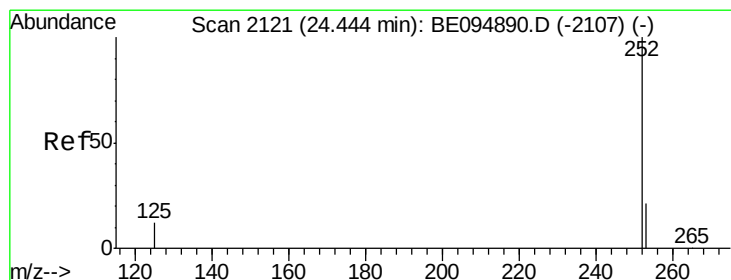
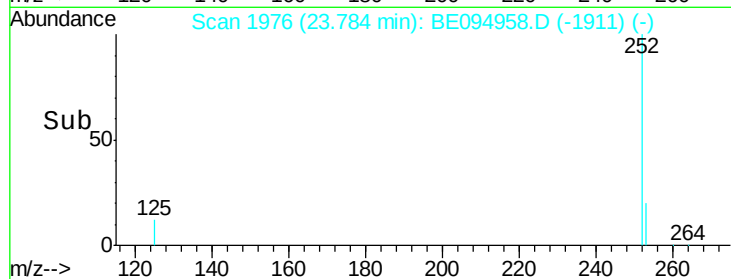
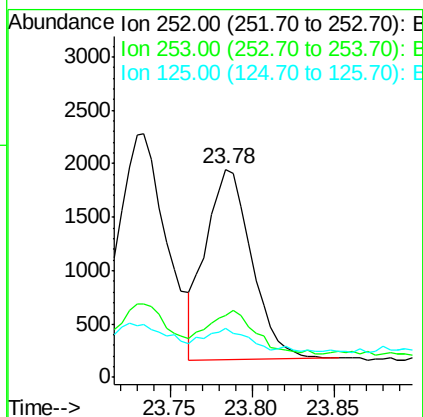
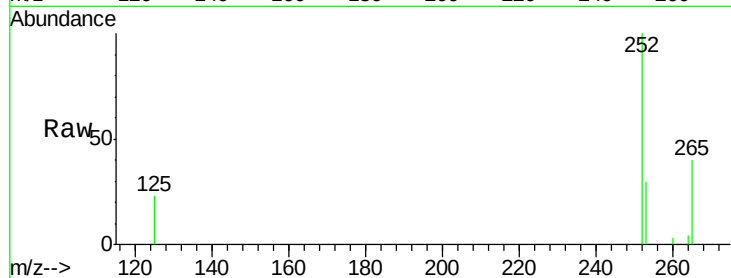




#36
Benzo(k)fluoranthene
Concen: 0.048 ng
RT: 23.78 min Scan# 1976
Delta R.T. -0.00 min
Lab File: BE094958.D
Acq: 8 Dec 2017 20:44

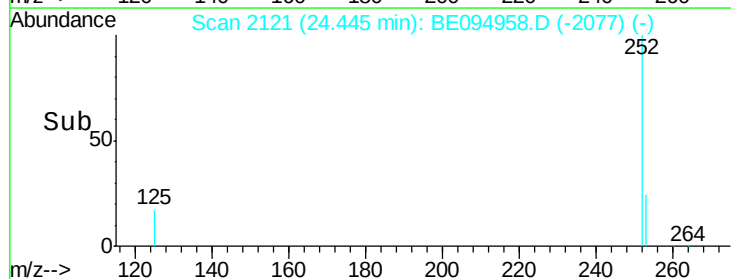
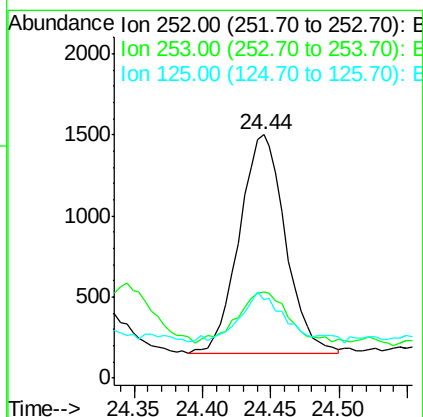
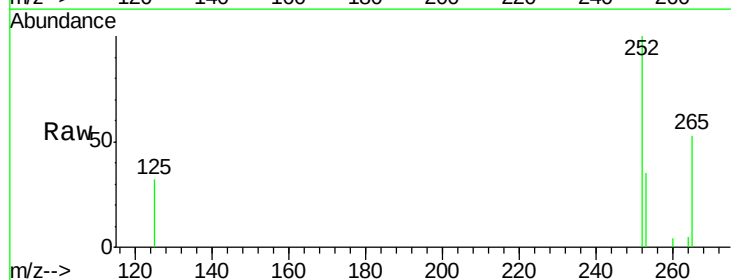
Instrument :
BNA_E
ClientSampleId :

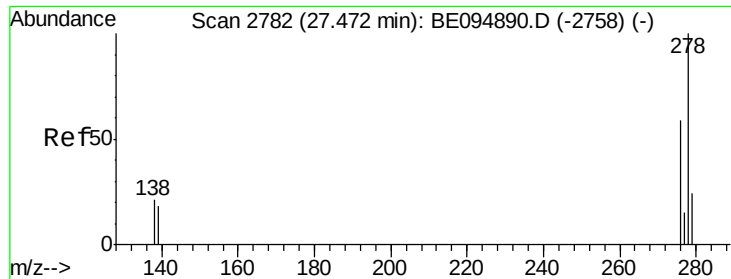
Tot Ion:252 Resp: 3469
Ion Ratio Lower Upper
252 100
253 29.6 48.0 72.0#
125 23.4 56.0 84.0#



#37
Benzo(a)pyrene
Concen: 0.051 ng
RT: 24.44 min Scan# 2121
Delta R.T. 0.00 min
Lab File: BE094958.D
Acq: 8 Dec 2017 20:44

Tgt Ion:252 Resp: 3172
Ion Ratio Lower Upper
252 100
253 35.4 52.0 78.0#
125 32.3 68.0 102.0#

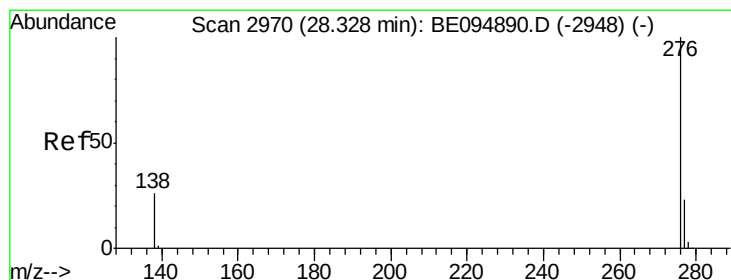
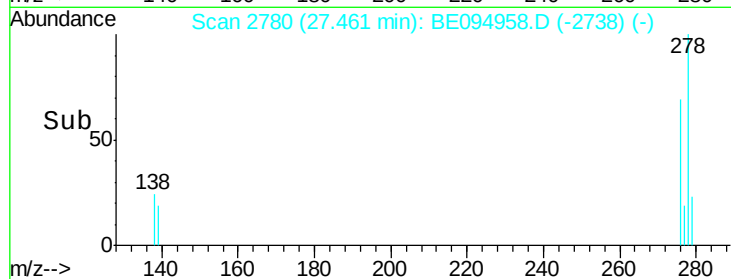
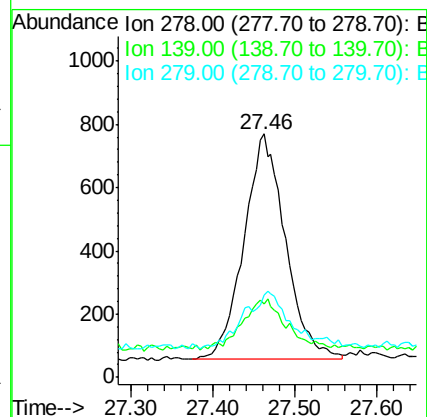
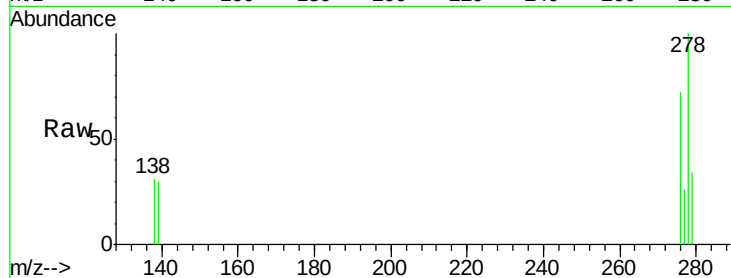




#38
Dibenzo(a,h)anthracene
Concen: 0.044 ng
RT: 27.46 min Scan# 2780
Delta R.T. -0.01 min
Lab File: BE094958.D
Acq: 8 Dec 2017 20:44

Instrument :
BNA_E
ClientSampleId :

Tot Ion:278 Resp: 2501
Ion Ratio Lower Upper
278 100
139 30.0 56.0 84.0#
279 33.8 52.0 78.0#



#39
Benzo(g,h,i)perylene
Concen: 0.048 ng
RT: 28.32 min Scan# 2968
Delta R.T. -0.01 min
Lab File: BE094958.D
Acq: 8 Dec 2017 20:44

Tgt Ion:276 Resp: 2771
Ion Ratio Lower Upper
276 100
277 31.4 52.0 78.0#
138 29.0 44.0 66.0#

