

Data Path : Z:\HPCHEM1\BNA E\DATA\BE120817\
 Data File : BE094965.D
 Acq On : 9 Dec 2017 1:00
 Operator : SJ/JU
 Sample : I6740-11
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 FT-DUP06-20171204

Quant Time: Dec 09 02:58:54 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	8.48	152	7615	0.40	ng	0.00
7) Naphthalene-d8	11.33	136	16455	0.40	ng	0.00
13) Acenaphthene-d10	15.08	164	9350	0.40	ng	0.00
19) Phenanthrene-d10	17.79	188	23107	0.40	ng	0.01
27) Chrysene-d12	21.88	240	23821	0.40	ng	0.00
34) Perylene-d12	24.56	264	19043	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.95	112	1949	0.16	ng	0.00
5) Phenol-d6	7.60	99	2157	0.12	ng	0.01
8) Nitrobenzene-d5	9.67	82	5766	0.59	ng	0.00
11) 2-Methylnaphthalene-d10	12.87	152	9647	0.37	ng	0.00
14) 2,4,6-Tribromophenol	16.55	330	1201	0.58	ng	0.02
15) 2-Fluorobiphenyl	13.71	172	26209	0.65	ng	0.00
25) Fluoranthene-d10	19.76	212	116039	0.37	ng	0.00
29) Terphenyl-d14	20.33	244	26849	0.61	ng	0.00

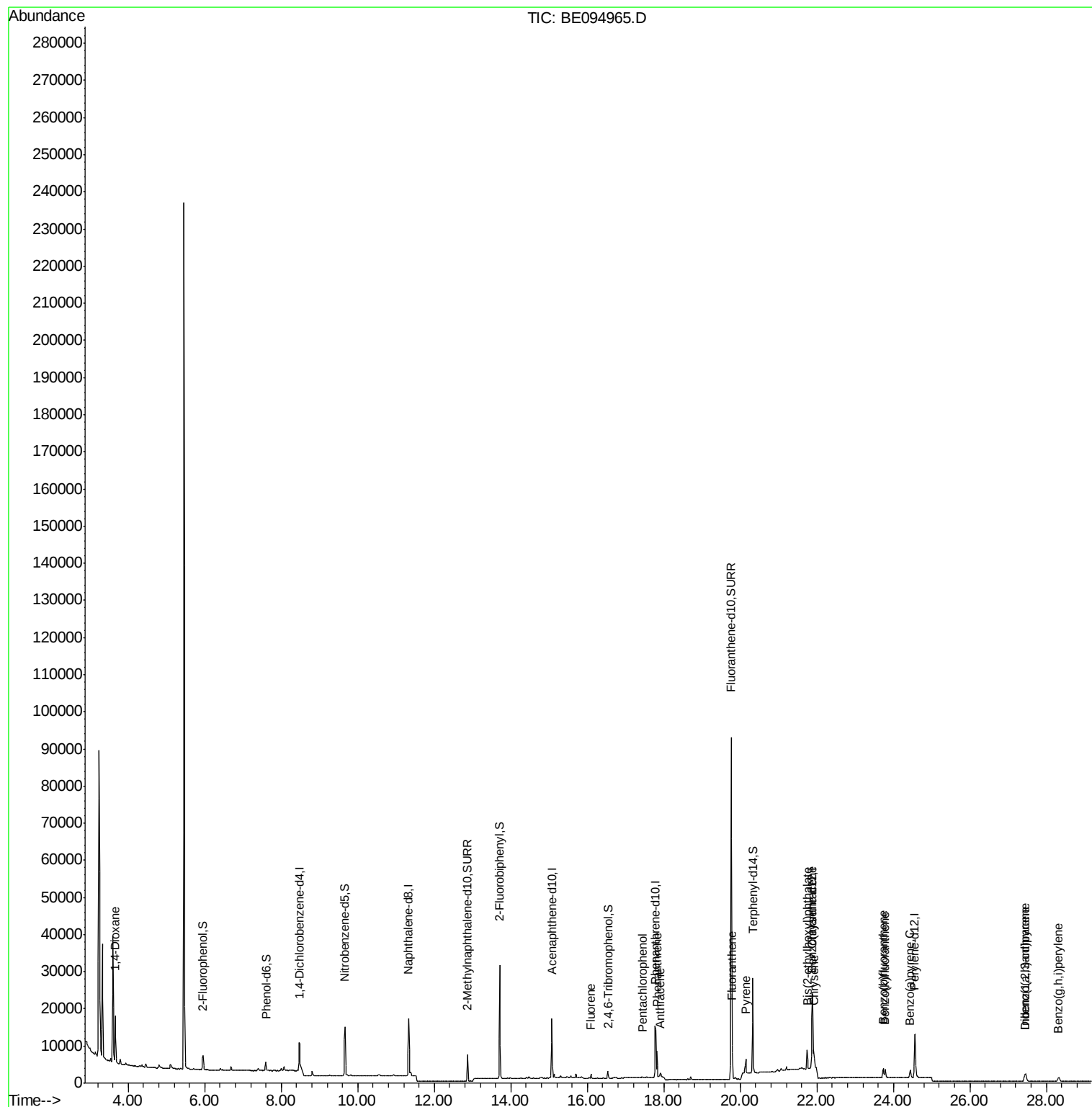
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.66	88	7973	1.001	ng	93
18) Fluorene	16.10	166	905	0.021	ng	# 82
22) Pentachlorophenol	17.43	266	132	0.165	ng	88
23) Phenanthrene	17.82	178	7252	0.098	ng	97
24) Anthracene	17.91	178	2196	0.028	ng	# 57
26) Fluoranthene	19.79	202	5700	0.060	ng	96
28) Pyrene	20.14	202	4375	0.053	ng	# 90
30) Benzo(a)anthracene	21.87	228	4183	0.057	ng	# 64
31) Chrysene	21.92	228	5043	0.062	ng	# 66
32) Bis(2-ethylhexyl)phthalate	21.74	149	7157	0.059	ng	100
33) Indeno(1,2,3-cd)pyrene	27.43	276	3268	0.049	ng	99
35) Benzo(b)fluoranthene	23.73	252	3889	0.056	ng	# 50
36) Benzo(k)fluoranthene	23.78	252	3353	0.047	ng	# 50
37) Benzo(a)pyrene	24.44	252	3228	0.053	ng	# 54
38) Dibenzo(a,h)anthracene	27.46	278	2679	0.048	ng	# 54
39) Benzo(g,h,i)perylene	28.32	276	2977	0.053	ng	# 61

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

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 8.48 min Scan# 447

Delta R.T. -0.00 min

Lab File: BE094965.D

Acq: 9 Dec 2017 1:00

Instrument :

BNA_E

ClientSampleId :

FT-DUP06-20171204

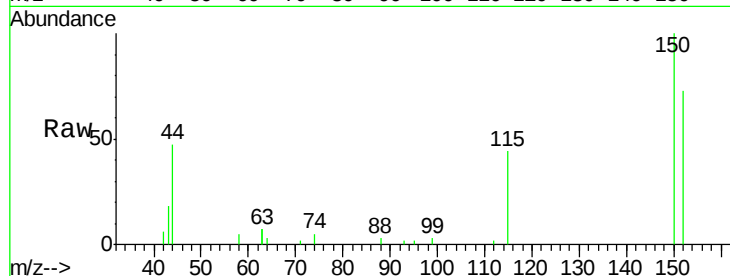
Tot Ion:152 Resp: 7615

Ion Ratio Lower Upper

152 100

150 136.6 117.2 175.8

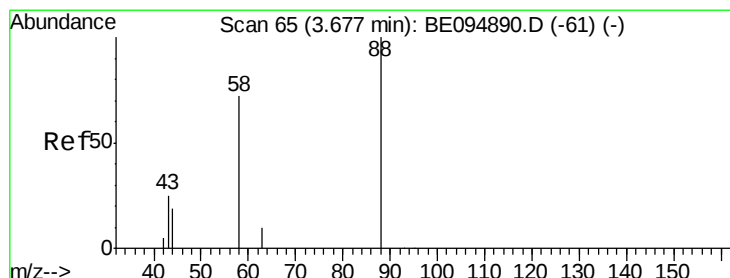
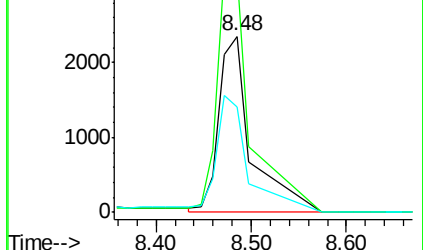
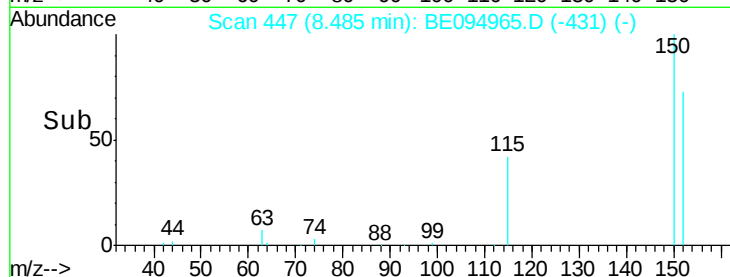
115 59.5 57.0 85.6



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: 1.001 ng

RT: 3.66 min Scan# 64

Delta R.T. -0.01 min

Lab File: BE094965.D

Acq: 9 Dec 2017 1:00

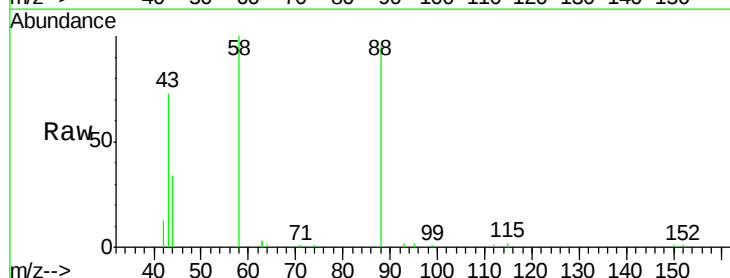
Tgt Ion: 88 Resp: 7973

Ion Ratio Lower Upper

88 100

58 86.0 63.2 94.8

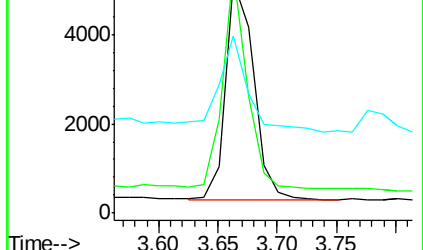
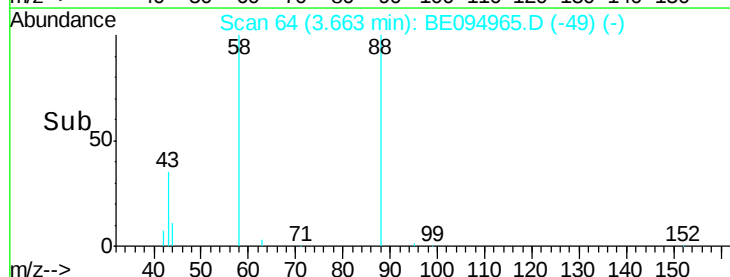
43 47.9 41.2 61.8

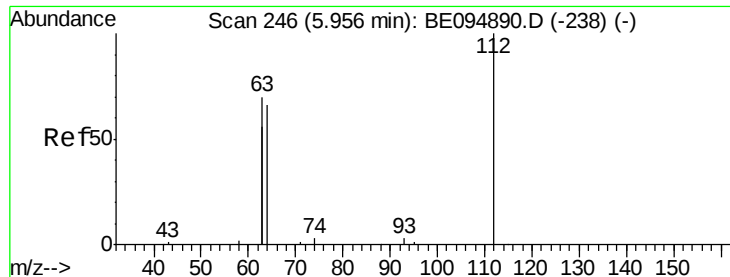


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 0.162 ng

RT: 5.95 min Scan# 246

Delta R.T. -0.00 min

Lab File: BE094965.D

Acq: 9 Dec 2017 1:00

Instrument :

BNA_E

ClientSampleId :

FT-DUP06-20171204

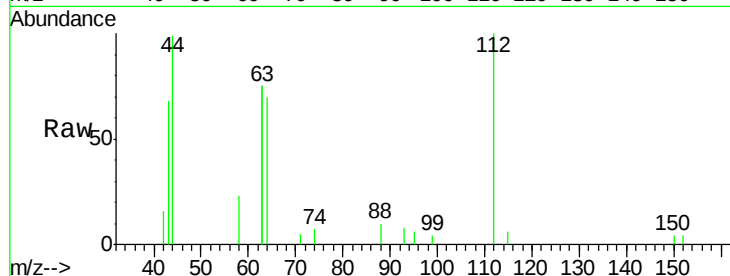
Tot Ion:112 Resp: 1949

Ion Ratio Lower Upper

112 100

64 78.3 60.1 90.1

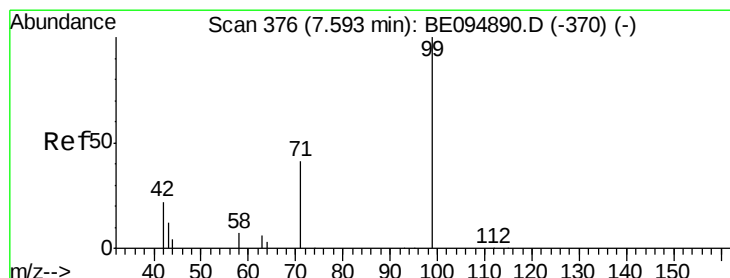
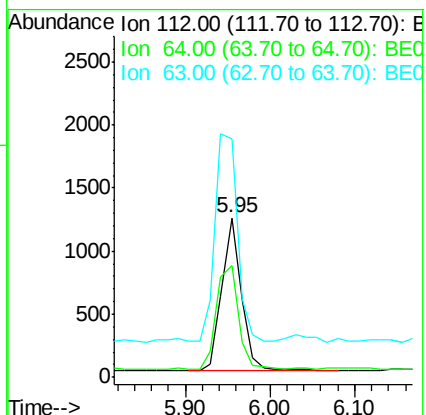
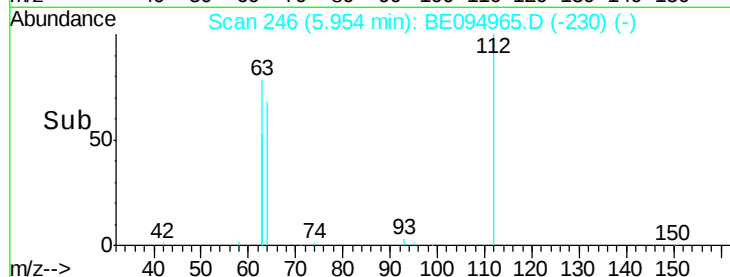
63 156.3 116.8 175.2



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 0.121 ng

RT: 7.60 min Scan# 377

Delta R.T. 0.01 min

Lab File: BE094965.D

Acq: 9 Dec 2017 1:00

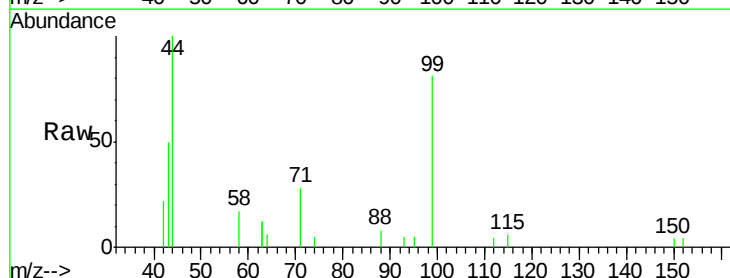
Tgt Ion: 99 Resp: 2157

Ion Ratio Lower Upper

99 100

42 29.9 20.2 30.2

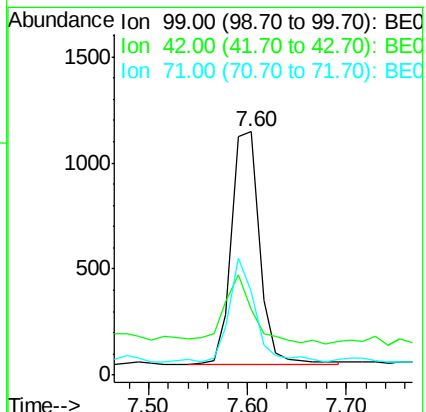
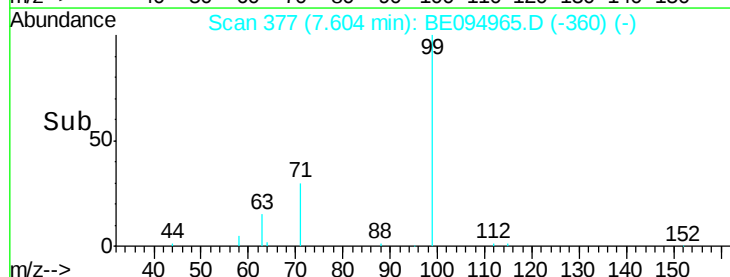
71 42.3 28.4 42.6

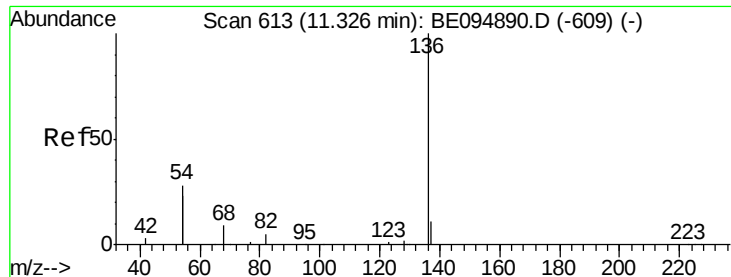


Abundance Ion 99.00 (98.70 to 99.70): BE0

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: BE094965.D

Acq: 9 Dec 2017 1:00

Instrument :

BNA_E

ClientSampleId :

FT-DUP06-20171204

Tot Ion:136 Resp: 16455

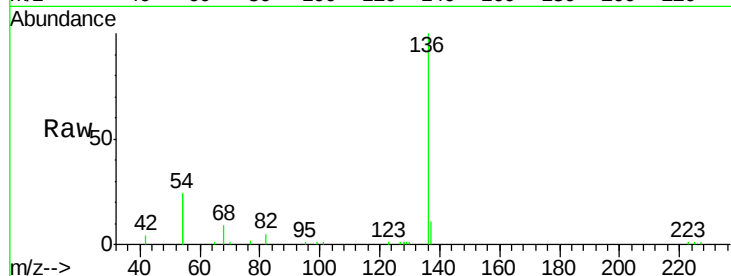
Ion Ratio Lower Upper

136 100

137 10.6 9.5 14.3

54 48.9 29.1 43.7#

68 9.1 6.2 9.2

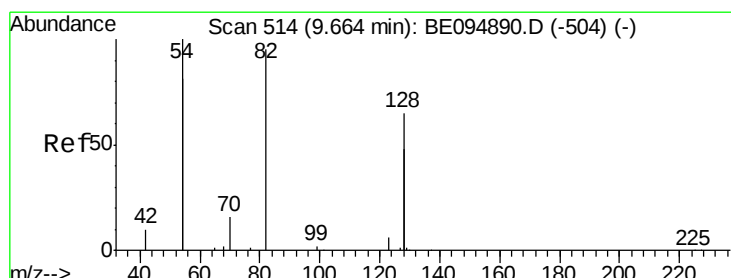
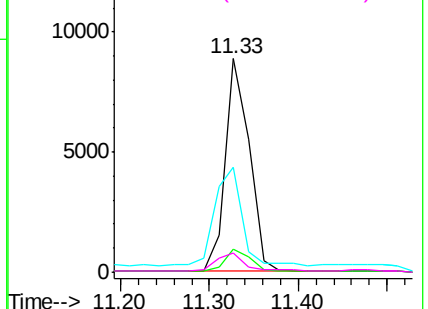
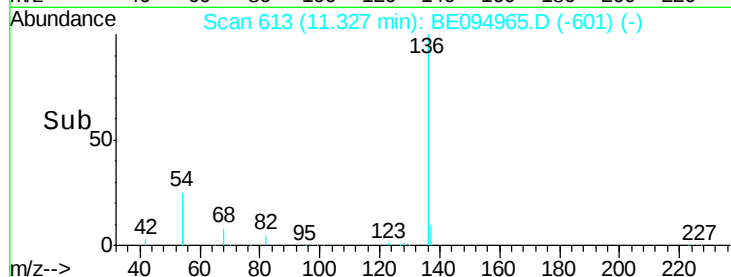


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.592 ng

RT: 9.67 min Scan# 514

Delta R.T. 0.00 min

Lab File: BE094965.D

Acq: 9 Dec 2017 1:00

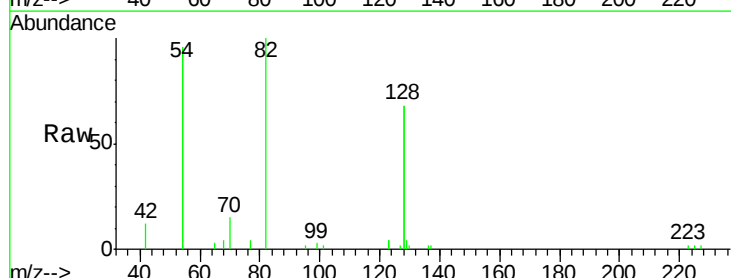
Tgt Ion: 82 Resp: 5766

Ion Ratio Lower Upper

82 100

128 136.9 150.0 225.0#

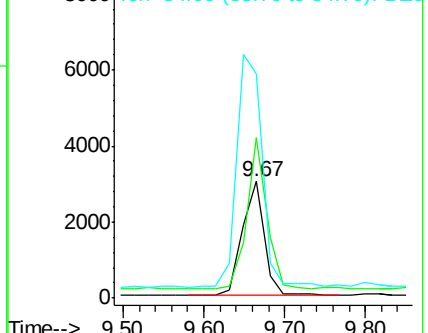
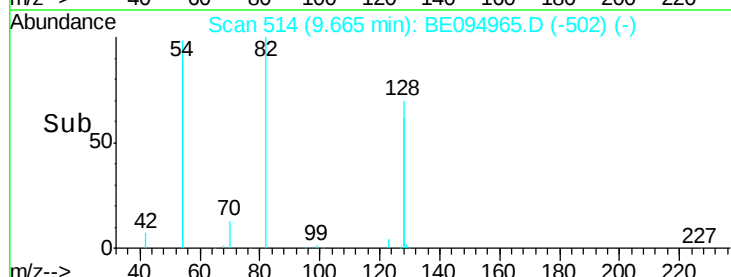
54 192.1 154.2 231.4

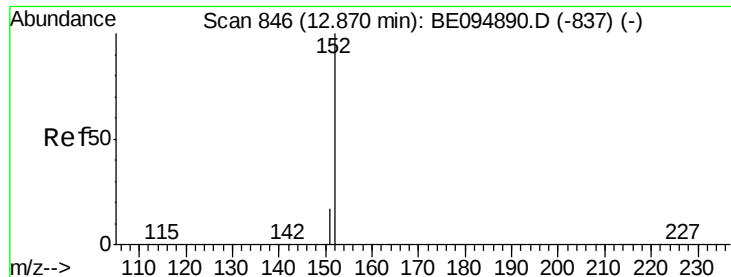


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

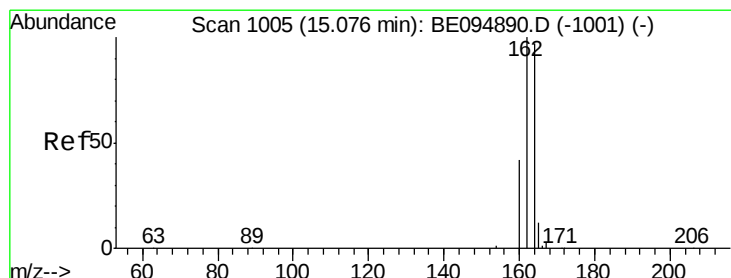
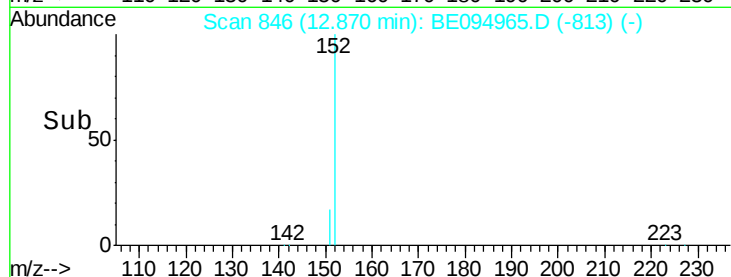
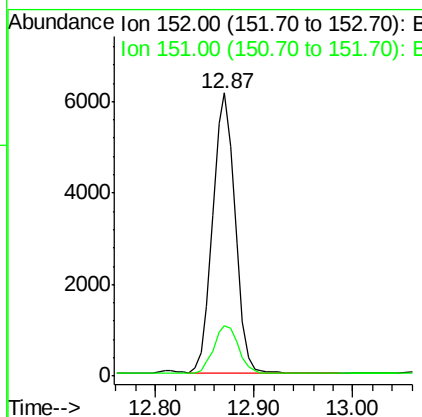
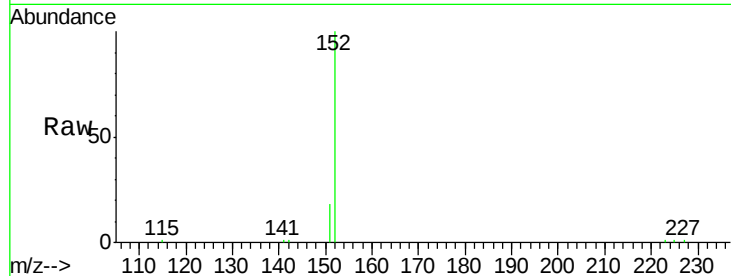




#11
 2-Methylnaphthalene-d10
 Concen: 0.367 ng
 RT: 12.87 min Scan# 846
 Delta R.T. -0.00 min
 Lab File: BE094965.D
 Acq: 9 Dec 2017 1:00

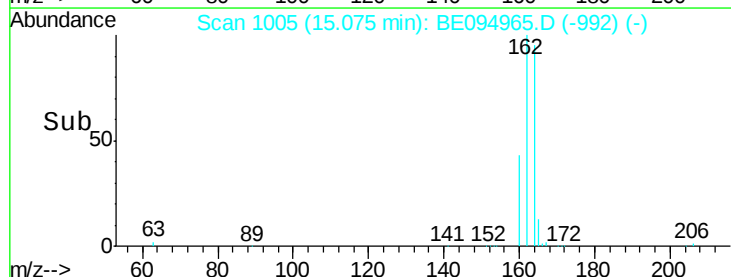
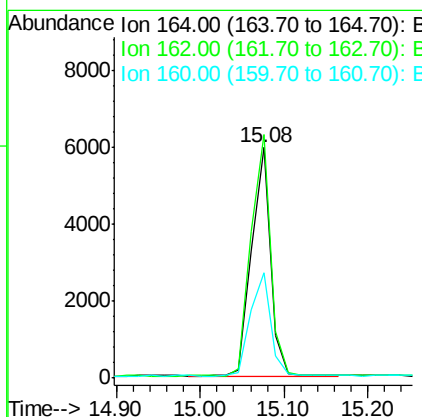
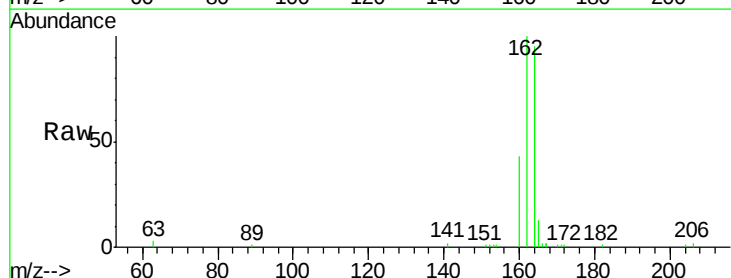
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 FT-DUP06-20171204

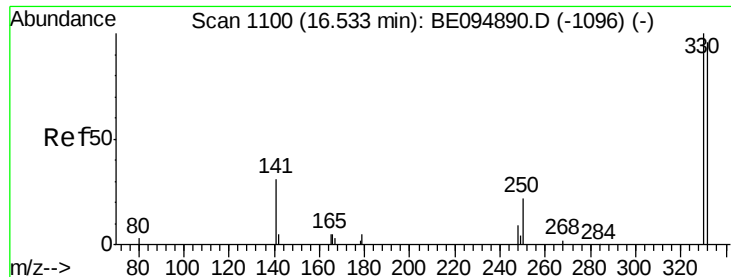
Tot Ion:152 Resp: 9647
 Ion Ratio Lower Upper
 152 100
 151 18.9 15.4 23.0



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 15.08 min Scan# 1005
 Delta R.T. -0.00 min
 Lab File: BE094965.D
 Acq: 9 Dec 2017 1:00

Tgt Ion:164 Resp: 9350
 Ion Ratio Lower Upper
 164 100
 162 105.6 83.1 124.7
 160 45.7 37.1 55.7

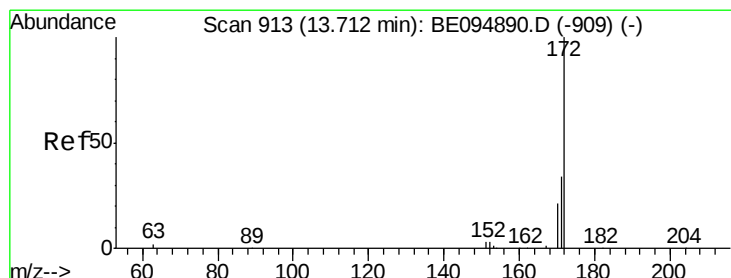
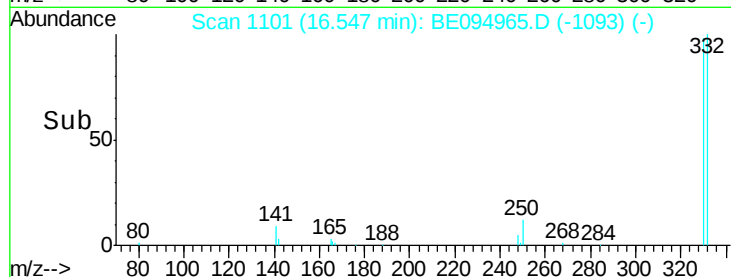
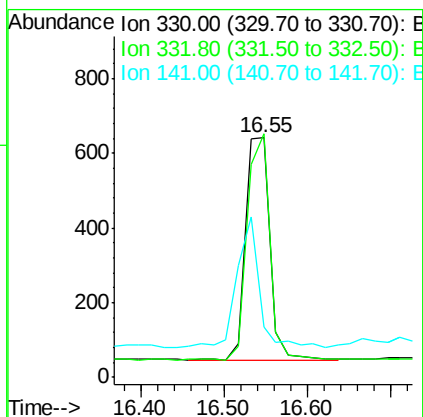
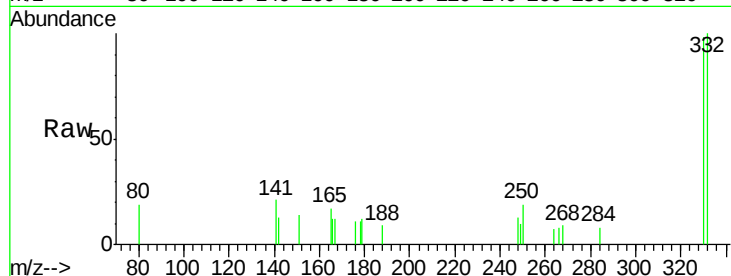




#14
 2,4,6-Tribromophenol
 Concen: 0.576 ng
 RT: 16.55 min Scan# 1101
 Delta R.T. 0.02 min
 Lab File: BE094965.D
 Acq: 9 Dec 2017 1:00

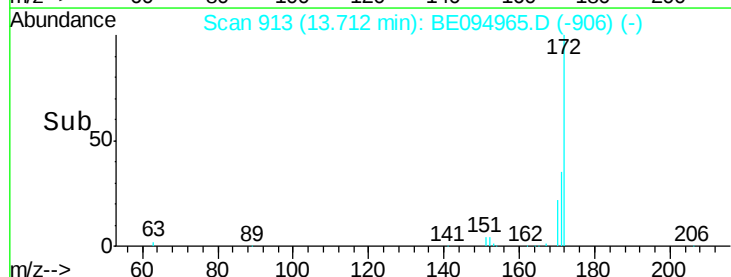
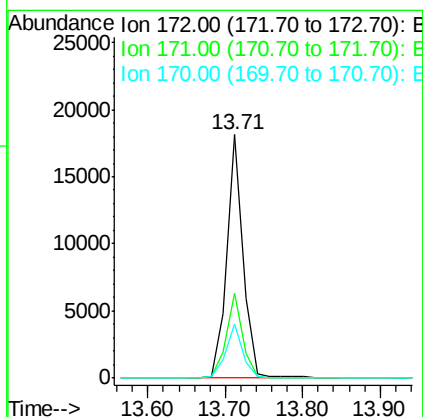
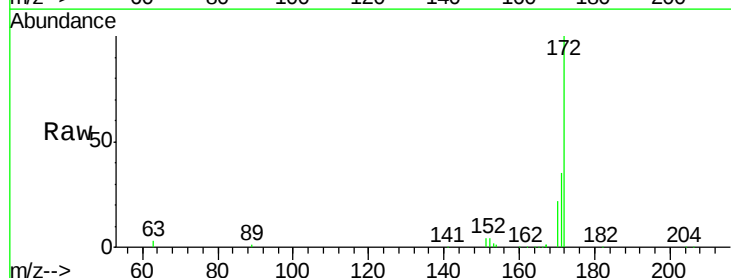
Instrument :
 BNA_E
 ClientSampleId :
 FT-DUP06-20171204

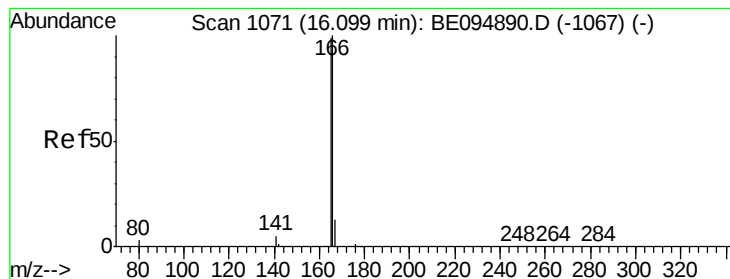
Tot Ion:330 Resp: 1201
 Ion Ratio Lower Upper
 330 100
 332 95.3 152.7 229.1#
 141 52.3 33.7 50.5#



#15
 2-Fluorobiphenyl
 Concen: 0.655 ng
 RT: 13.71 min Scan# 913
 Delta R.T. -0.00 min
 Lab File: BE094965.D
 Acq: 9 Dec 2017 1:00

Tgt Ion:172 Resp: 26209
 Ion Ratio Lower Upper
 172 100
 171 35.1 29.9 44.9
 170 22.1 21.8 32.8





#18

Fluorene

Concen: 0.021 ng

RT: 16.10 min Scan# 1071

Delta R.T. -0.00 min

Lab File: BE094965.D

Acq: 9 Dec 2017 1:00

Instrument :

BNA_E

ClientSampleId :

FT-DUP06-20171204

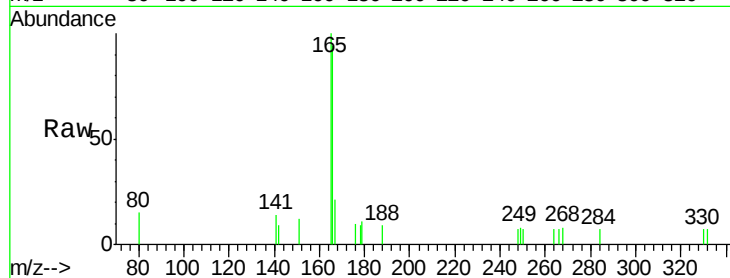
Tot Ion:166 Resp: 905

Ion Ratio Lower Upper

166 100

165 95.9 77.8 116.6

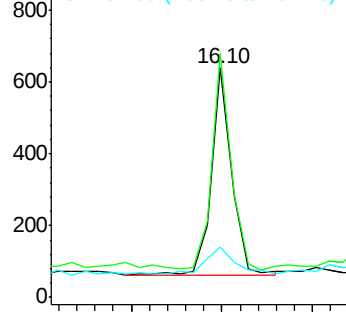
167 18.6 42.4 63.6#



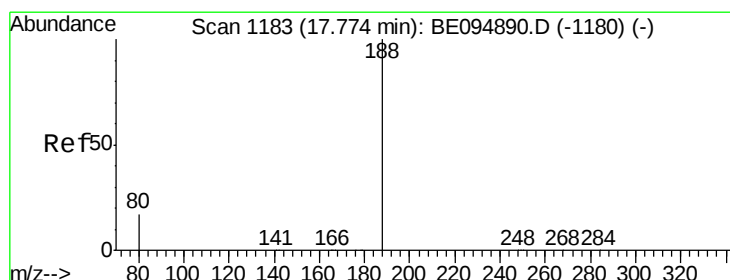
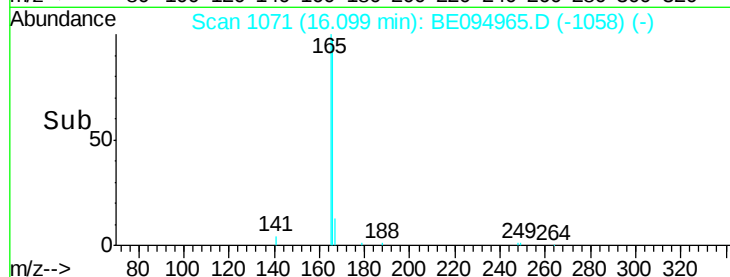
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.79 min Scan# 1184

Delta R.T. 0.01 min

Lab File: BE094965.D

Acq: 9 Dec 2017 1:00

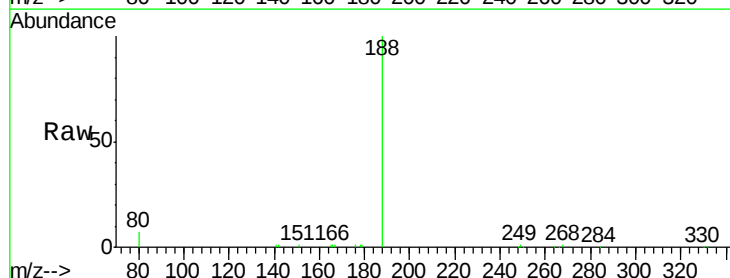
Tgt Ion:188 Resp: 23107

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

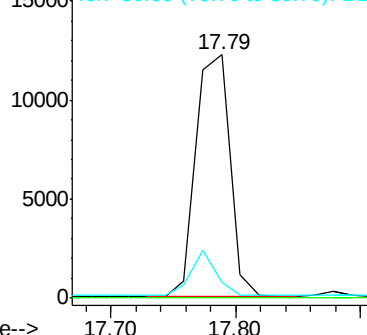
80 6.7 3.6 5.4#



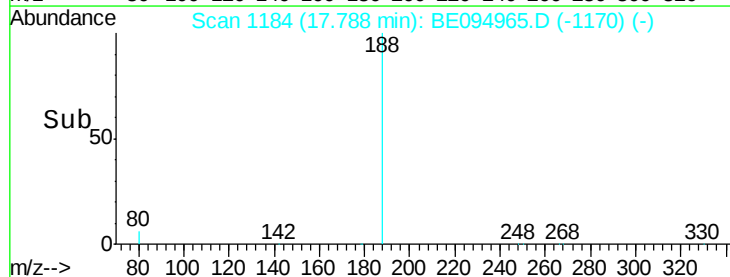
Abundance Ion 188.00 (187.70 to 188.70): E

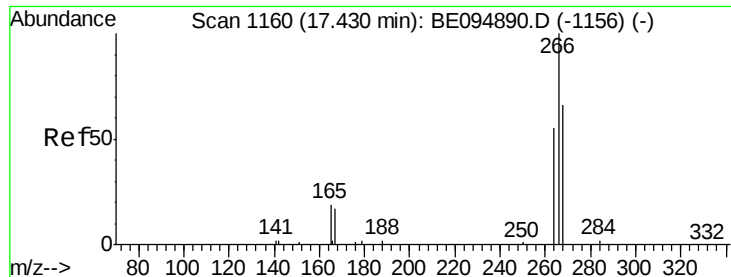
Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



Time-->

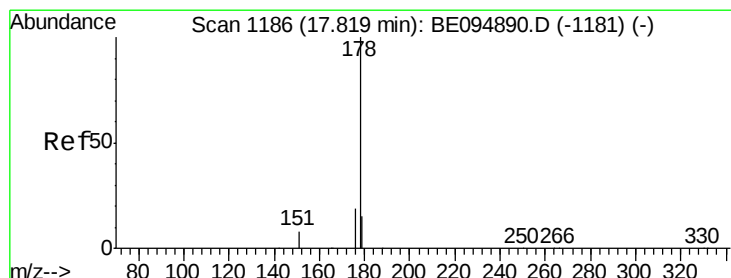
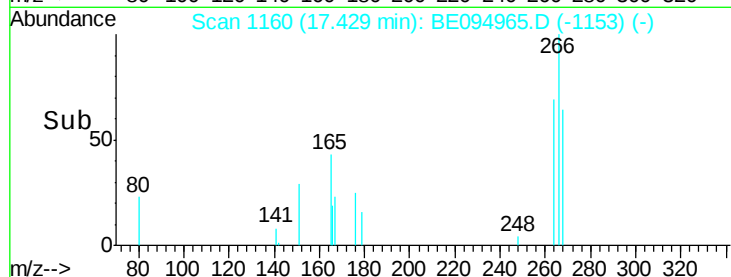
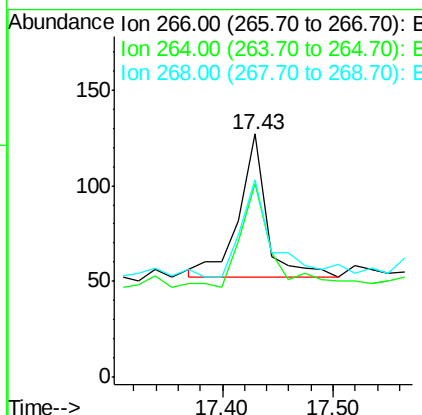
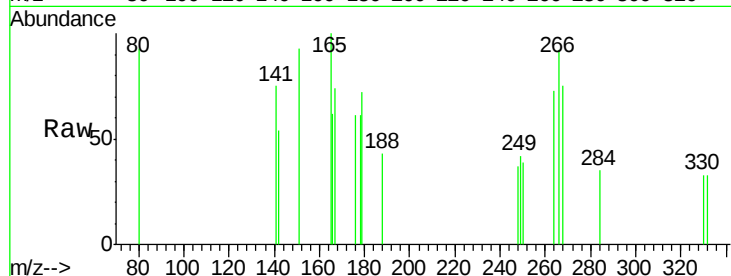




#22
 Pentachlorophenol
 Concen: 0.165 ng
 RT: 17.43 min Scan# 1160
 Delta R.T. 0.00 min
 Lab File: BE094965.D
 Acq: 9 Dec 2017 1:00

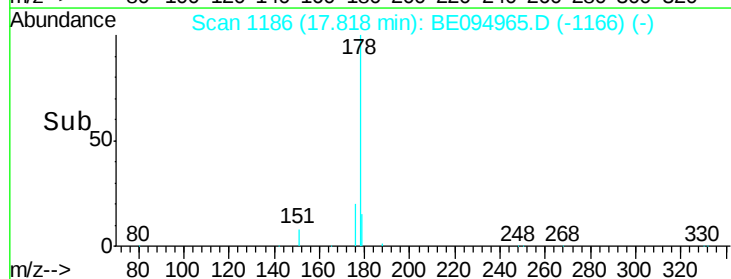
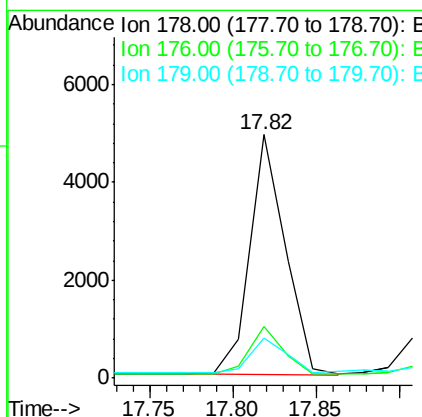
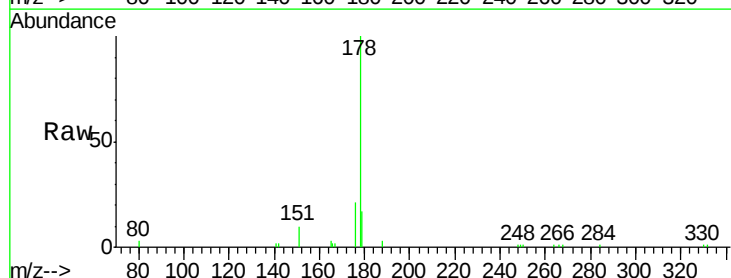
Instrument :
 BNA_E
 ClientSampleId :
 FT-DUP06-20171204

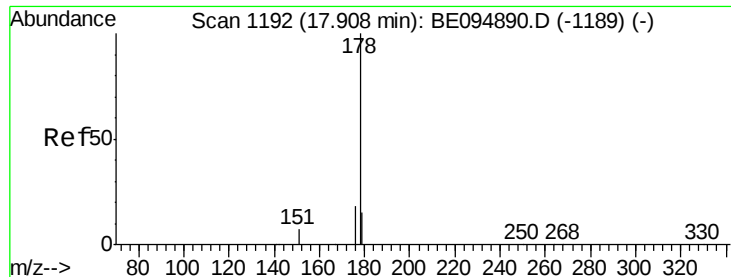
Tot Ion:266 Resp: 132
 Ion Ratio Lower Upper
 266 100
 264 79.5 72.5 108.7
 268 81.1 73.8 110.6



#23
 Phenanthrene
 Concen: 0.098 ng
 RT: 17.82 min Scan# 1186
 Delta R.T. -0.00 min
 Lab File: BE094965.D
 Acq: 9 Dec 2017 1:00

Tgt Ion:178 Resp: 7252
 Ion Ratio Lower Upper
 178 100
 176 20.5 15.1 22.7
 179 15.7 11.8 17.6





#24

Anthracene

Concen: 0.028 ng

RT: 17.91 min Scan# 1192

Delta R.T. -0.00 min

Lab File: BE094965.D

Acq: 9 Dec 2017 1:00

Instrument :

BNA_E

ClientSampleId :

FT-DUP06-20171204

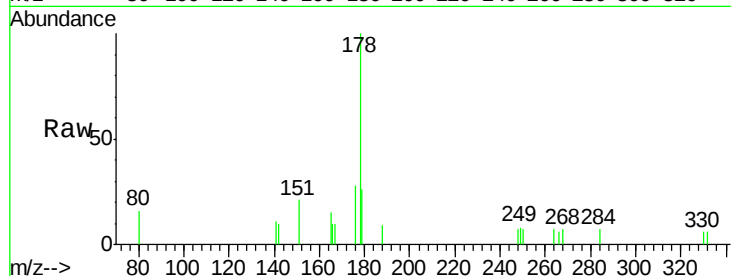
Tot Ion:178 Resp: 2196

Ion Ratio Lower Upper

178 100

176 47.2 12.8 19.2#

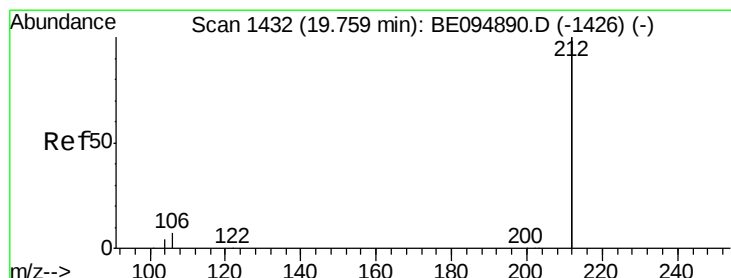
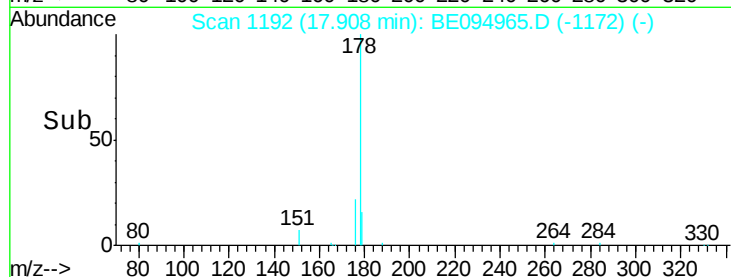
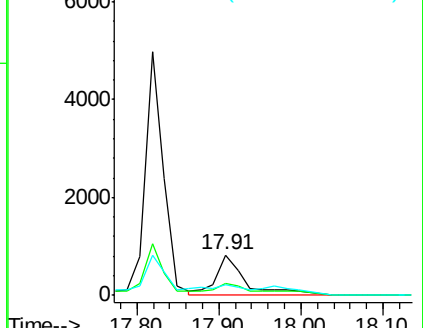
179 10.7 13.0 19.6#



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: 0.367 ng

RT: 19.76 min Scan# 1432

Delta R.T. 0.00 min

Lab File: BE094965.D

Acq: 9 Dec 2017 1:00

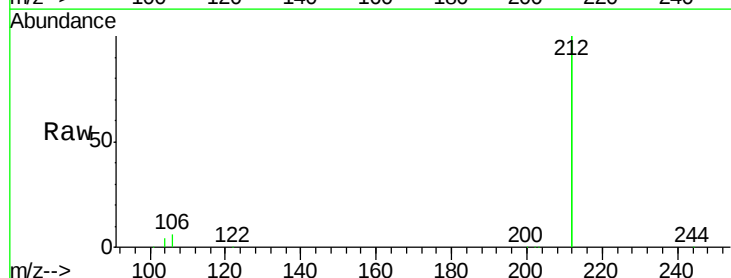
Tgt Ion:212 Resp: 116039

Ion Ratio Lower Upper

212 100

106 3.4 2.8 4.2

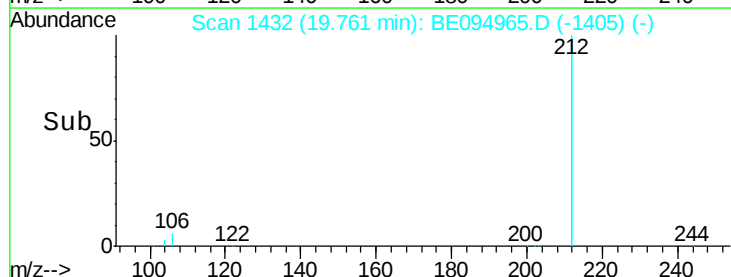
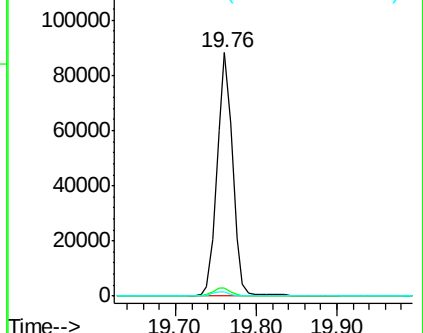
104 2.0 1.6 2.4

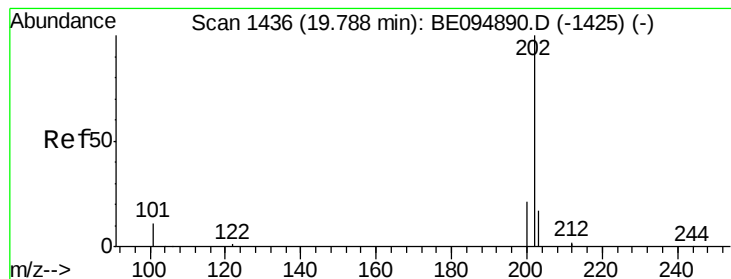


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#26

Fluoranthene

Concen: 0.060 ng

RT: 19.79 min Scan# 1436

Delta R.T. 0.00 min

Lab File: BE094965.D

Acq: 9 Dec 2017 1:00

Instrument :

BNA_E

ClientSampleId :

FT-DUP06-20171204

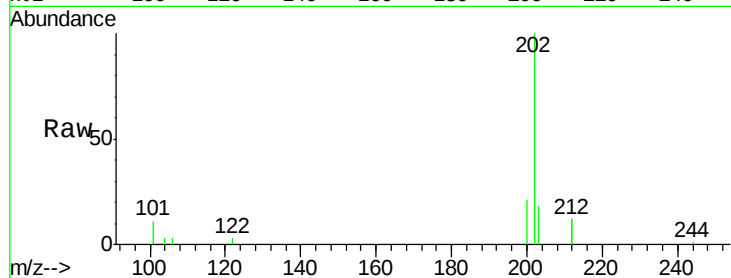
Tot Ion:202 Resp: 5700

Ion Ratio Lower Upper

202 100

101 13.3 9.8 14.8

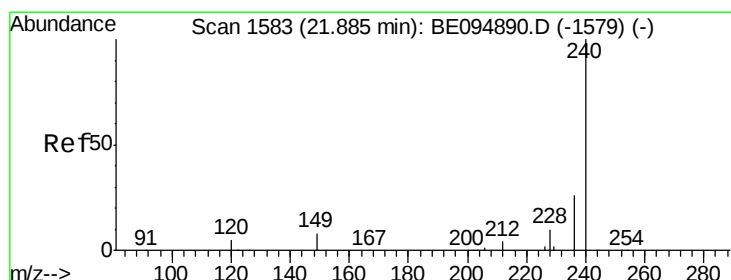
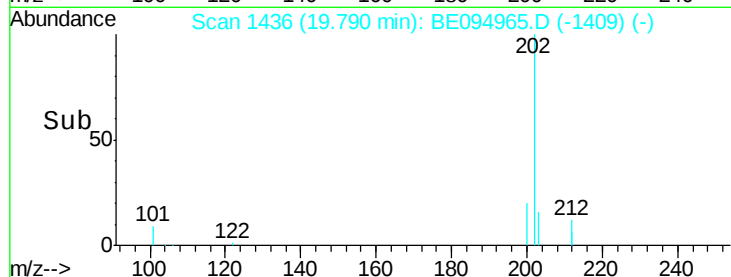
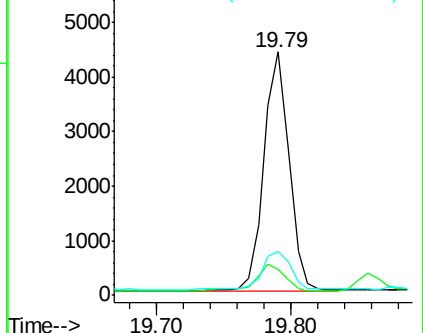
203 19.0 13.7 20.5



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: 21.88 min Scan# 1583

Delta R.T. -0.00 min

Lab File: BE094965.D

Acq: 9 Dec 2017 1:00

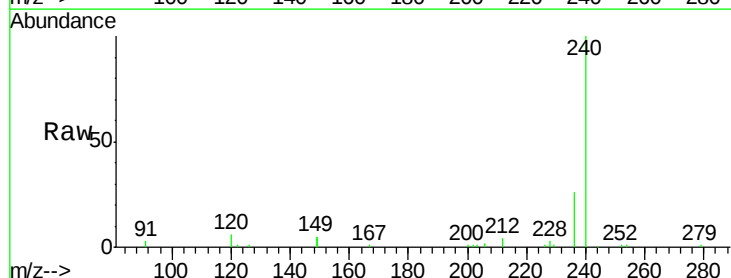
Tgt Ion:240 Resp: 23821

Ion Ratio Lower Upper

240 100

120 6.1 5.5 8.3

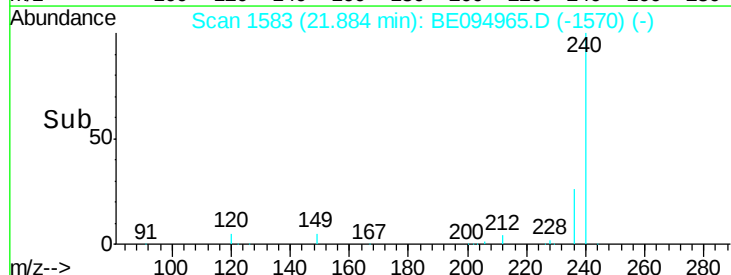
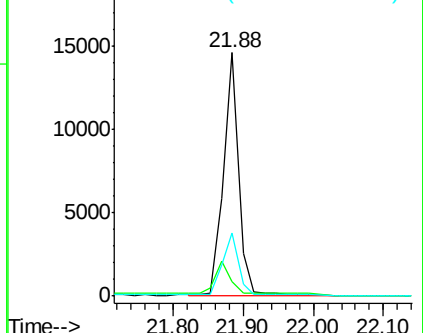
236 26.2 20.7 31.1

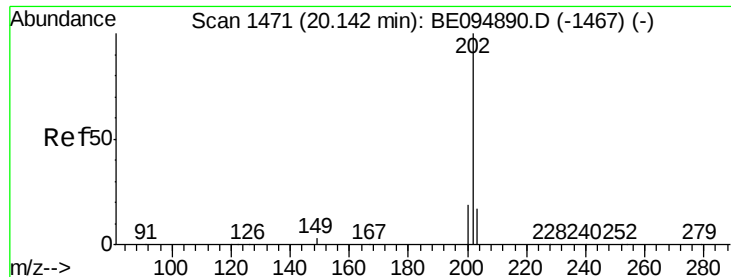


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

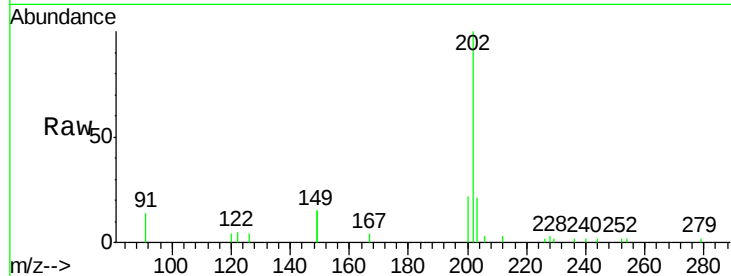




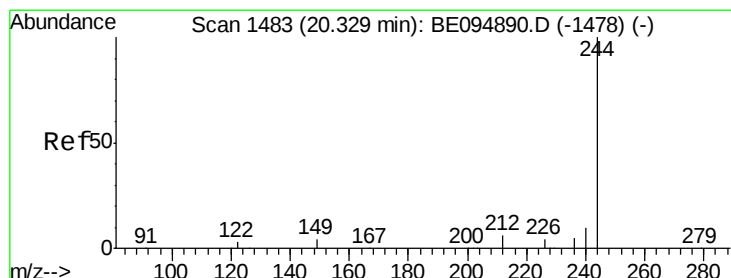
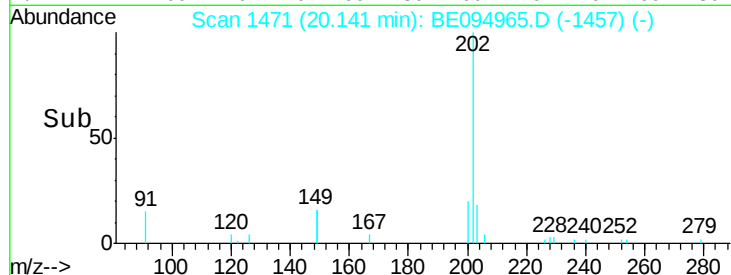
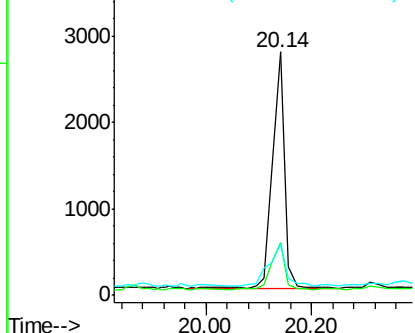
#28
Pvrene
Concen: 0.053 ng
RT: 20.14 min Scan# 1471
Delta R.T. -0.00 min
Lab File: BE094965.D
Acq: 9 Dec 2017 1:00

Instrument :
BNA_E
ClientSampleId :
FT-DUP06-20171204

Tot Ion:202 Resp: 4375
Ion Ratio Lower Upper
202 100
200 21.7 16.6 25.0
203 26.1 13.8 20.8#

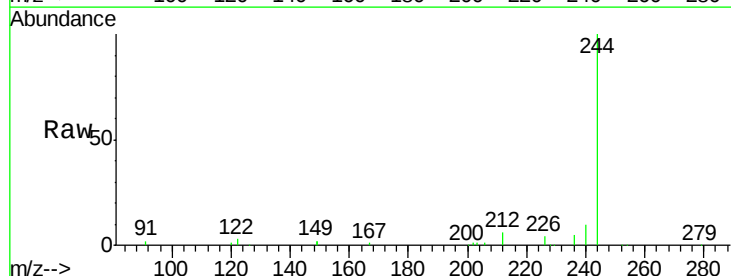


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

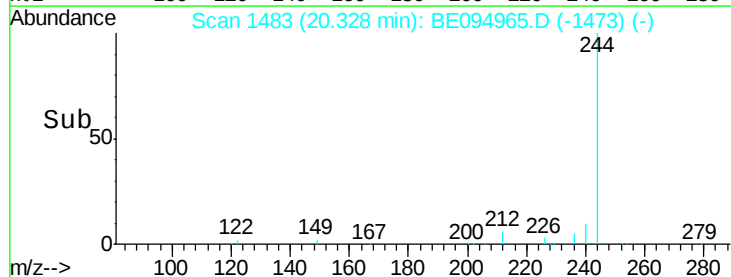
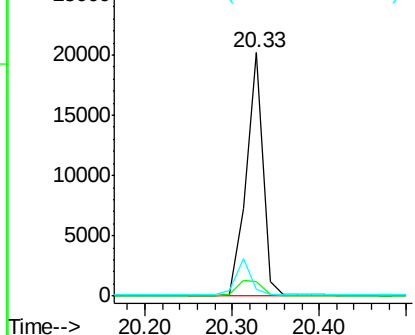


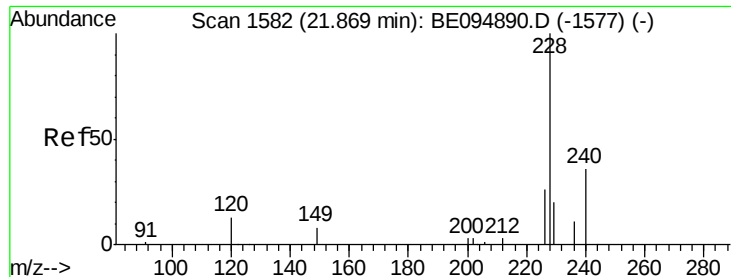
#29
Terphenyl-d14
Concen: 0.610 ng
RT: 20.33 min Scan# 1483
Delta R.T. -0.00 min
Lab File: BE094965.D
Acq: 9 Dec 2017 1:00

Tgt Ion:244 Resp: 26849
Ion Ratio Lower Upper
244 100
212 6.2 25.4 38.0#
122 3.0 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: 0.057 ng

RT: 21.87 min Scan# 1582

Delta R.T. -0.00 min

Lab File: BE094965.D

Acq: 9 Dec 2017 1:00

Instrument :

BNA_E

ClientSampleId :

FT-DUP06-20171204

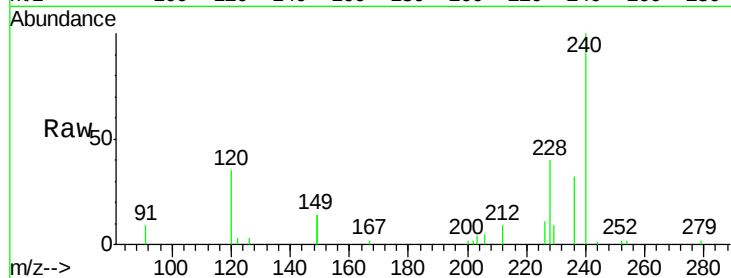
Tot Ion:228 Resp: 4183

Ion Ratio Lower Upper

228 100

226 26.7 40.0 60.0#

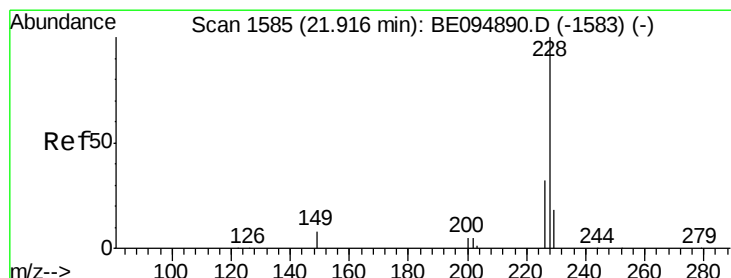
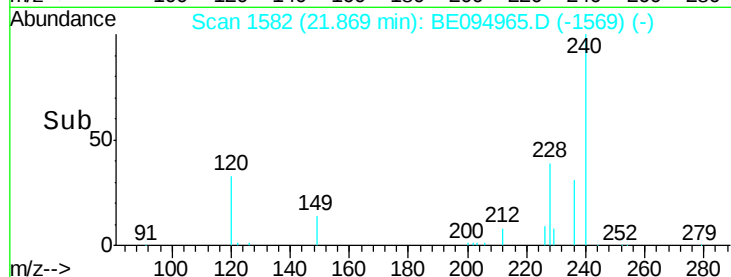
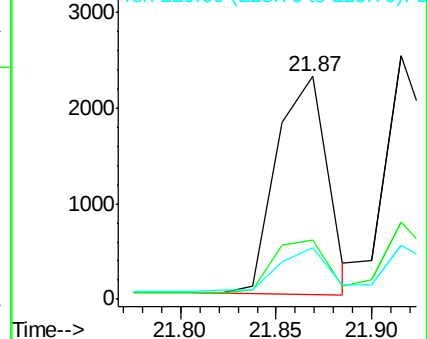
229 23.4 40.0 60.0#



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: 0.062 ng

RT: 21.92 min Scan# 1585

Delta R.T. -0.00 min

Lab File: BE094965.D

Acq: 9 Dec 2017 1:00

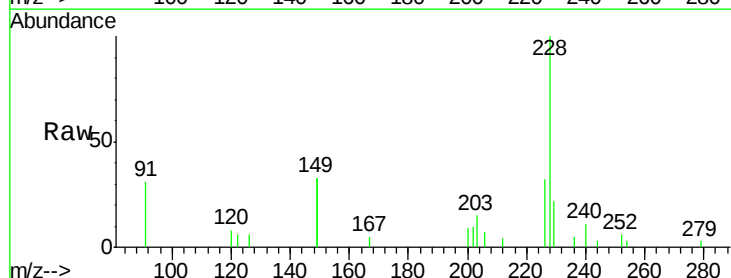
Tgt Ion:228 Resp: 5043

Ion Ratio Lower Upper

228 100

226 31.5 40.0 60.0#

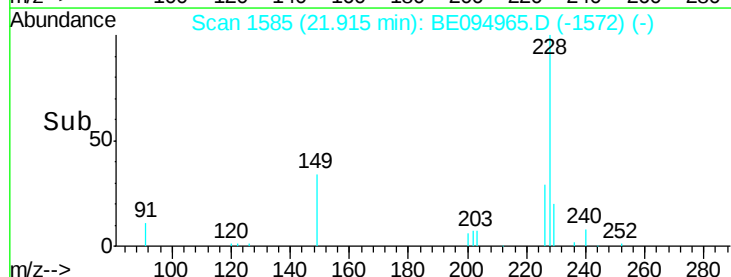
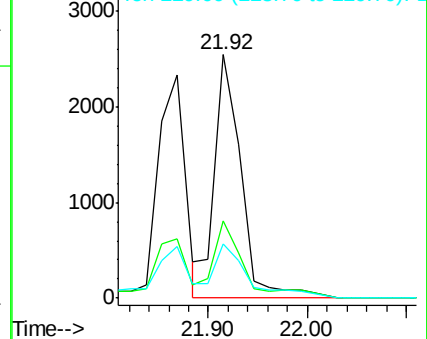
229 22.2 40.0 60.0#

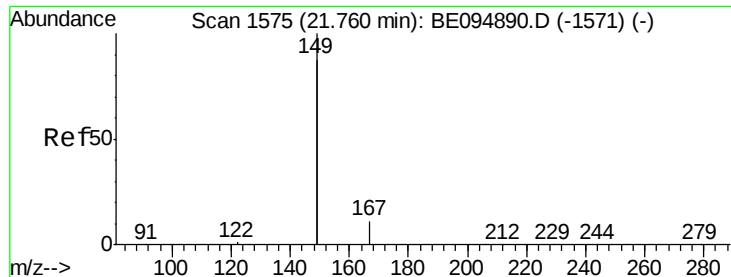


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.059 ng

RT: 21.74 min Scan# 1574

Delta R.T. -0.02 min

Lab File: BE094965.D

Acq: 9 Dec 2017 1:00

Instrument :

BNA_E

ClientSampleId :

FT-DUP06-20171204

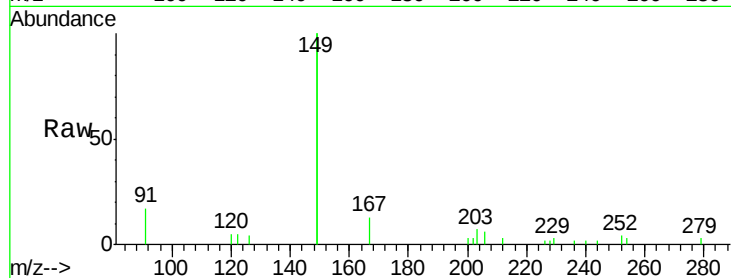
Tot Ion:149 Resp: 7157

Ion Ratio Lower Upper

149 100

167 6.9 5.4 8.0

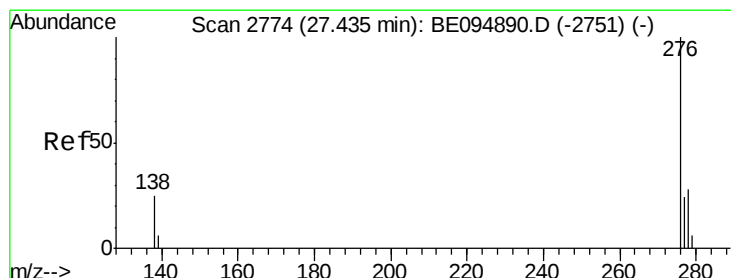
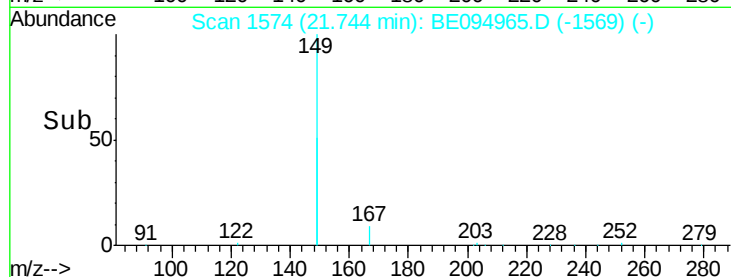
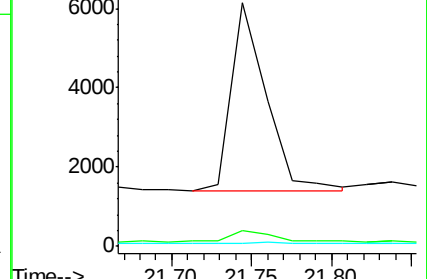
279 0.9 0.7 1.1



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.049 ng

RT: 27.43 min Scan# 2774

Delta R.T. -0.00 min

Lab File: BE094965.D

Acq: 9 Dec 2017 1:00

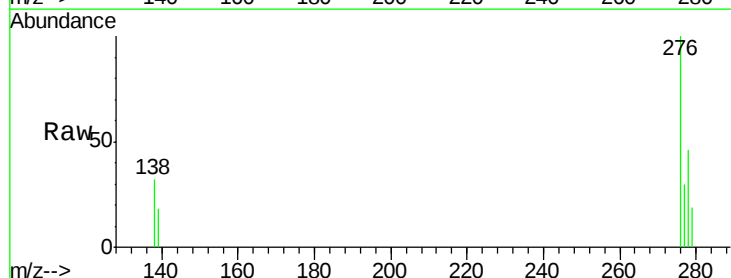
Tgt Ion:276 Resp: 3268

Ion Ratio Lower Upper

276 100

138 29.0 22.5 33.7

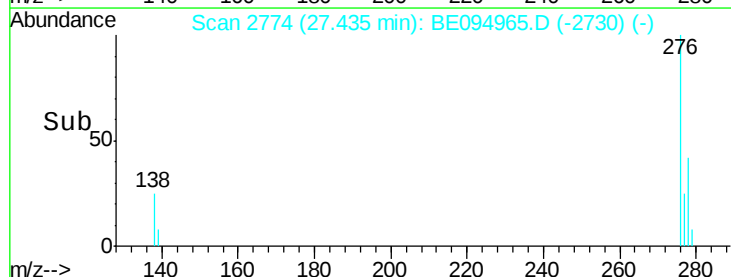
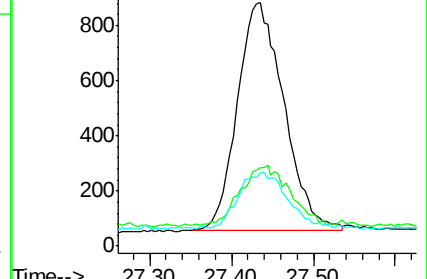
277 25.0 19.9 29.9

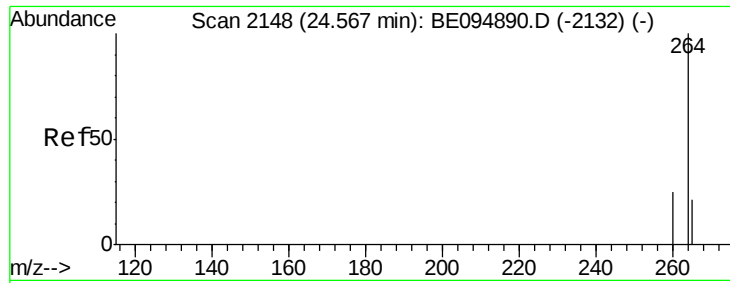


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

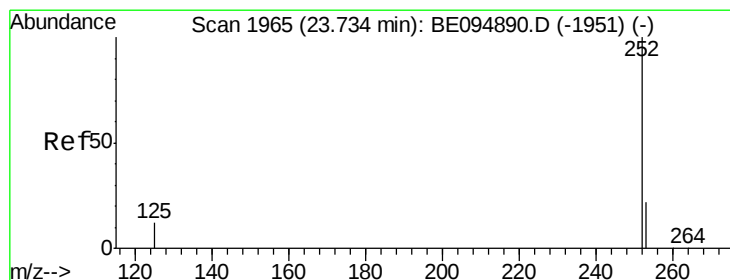
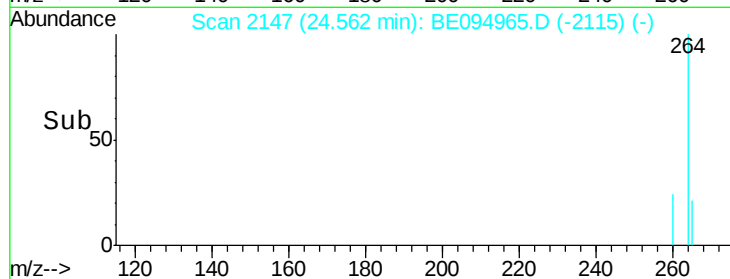
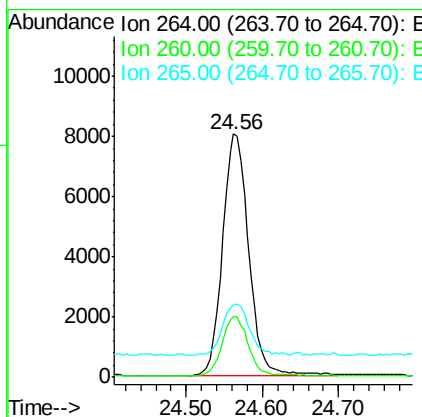
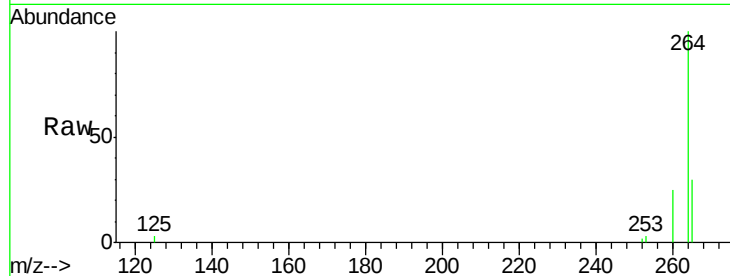




#34
Pervlene-d12
Concen: 0.400 ng
RT: 24.56 min Scan# 2147
Delta R.T. -0.00 min
Lab File: BE094965.D
Acq: 9 Dec 2017 1:00

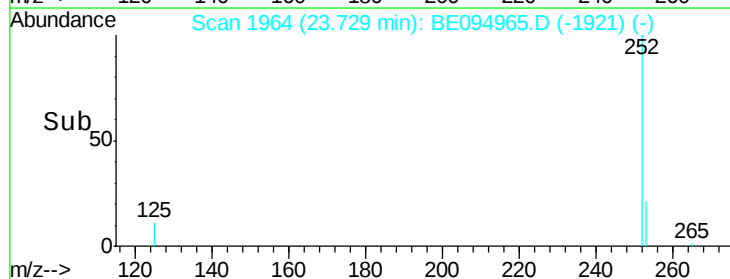
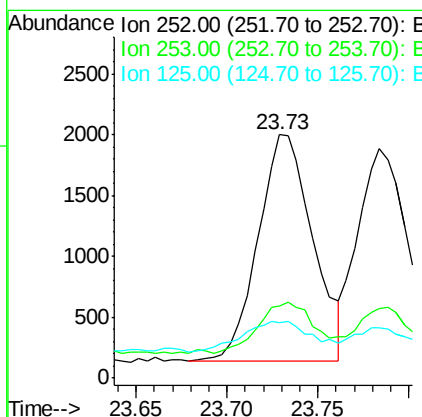
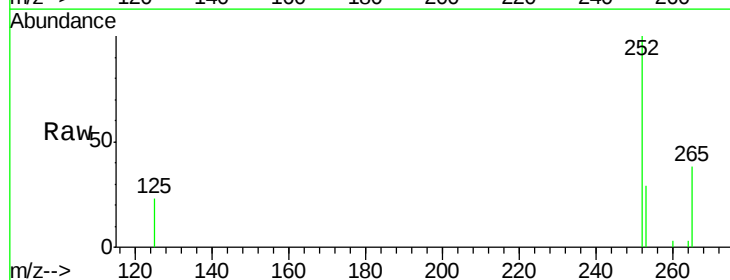
Instrument :
BNA_E
ClientSampleId :
FT-DUP06-20171204

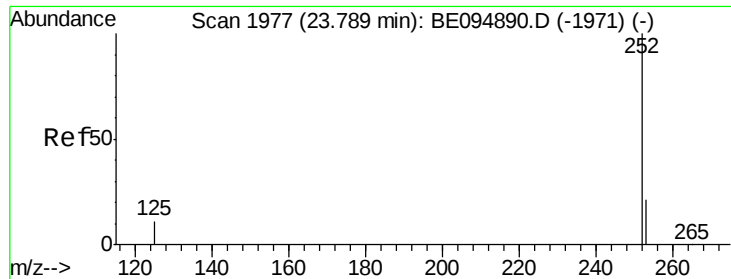
Tot Ion:264 Resp: 19043
Ion Ratio Lower Upper
264 100
260 24.8 20.5 30.7
265 29.9 22.8 34.2



#35
Benzo(b)fluoranthene
Concen: 0.056 ng
RT: 23.73 min Scan# 1964
Delta R.T. -0.00 min
Lab File: BE094965.D
Acq: 9 Dec 2017 1:00

Tgt Ion:252 Resp: 3889
Ion Ratio Lower Upper
252 100
253 29.5 48.0 72.0#
125 22.8 56.0 84.0#

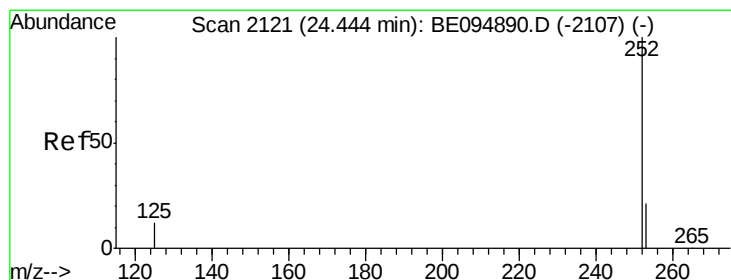
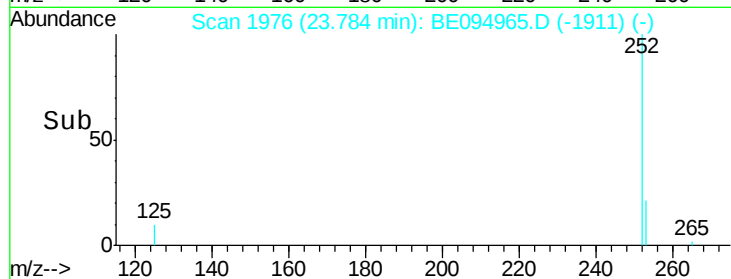
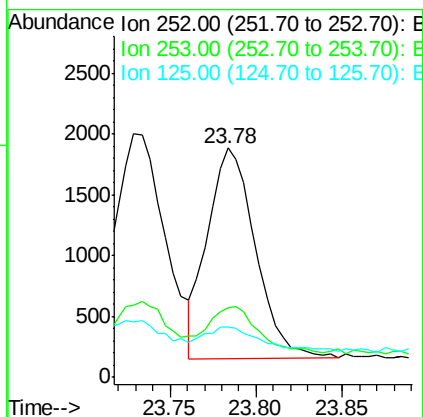
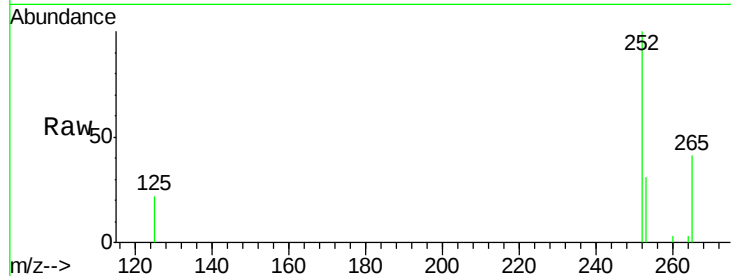




#36
Benzo(k)fluoranthene
Concen: 0.047 ng
RT: 23.78 min Scan# 1976
Delta R.T. -0.00 min
Lab File: BE094965.D
Acq: 9 Dec 2017 1:00

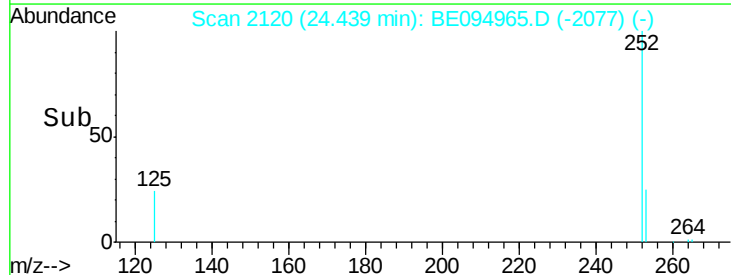
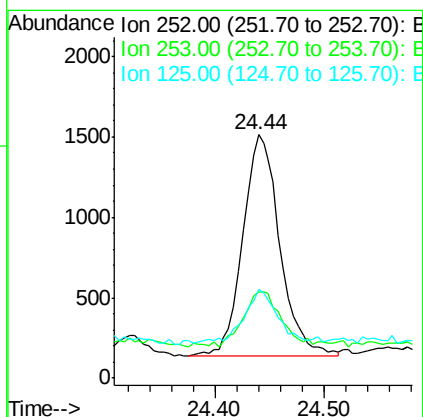
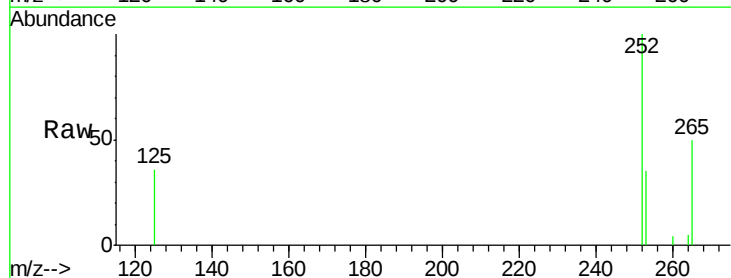
Instrument :
BNA_E
ClientSampleId :
FT-DUP06-20171204

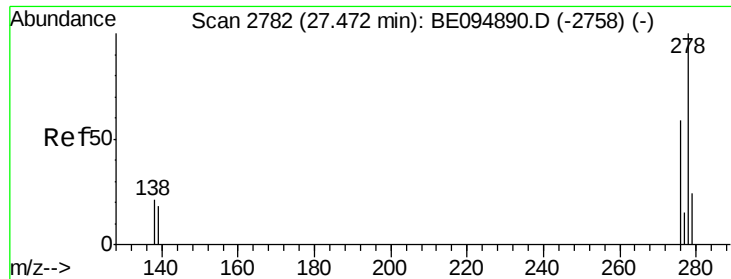
Tot Ion:252 Resp: 3353
Ion Ratio Lower Upper
252 100
253 30.6 48.0 72.0#
125 21.7 56.0 84.0#



#37
Benzo(a)pyrene
Concen: 0.053 ng
RT: 24.44 min Scan# 2120
Delta R.T. -0.00 min
Lab File: BE094965.D
Acq: 9 Dec 2017 1:00

Tgt Ion:252 Resp: 3228
Ion Ratio Lower Upper
252 100
253 35.5 52.0 78.0#
125 36.5 68.0 102.0#





#38

Dibenzo(a,h)anthracene

Concen: 0.048 ng

RT: 27.46 min Scan# 2780

Delta R.T. -0.01 min

Lab File: BE094965.D

Acq: 9 Dec 2017 1:00

Instrument :

BNA_E

ClientSampleId :

FT-DUP06-20171204

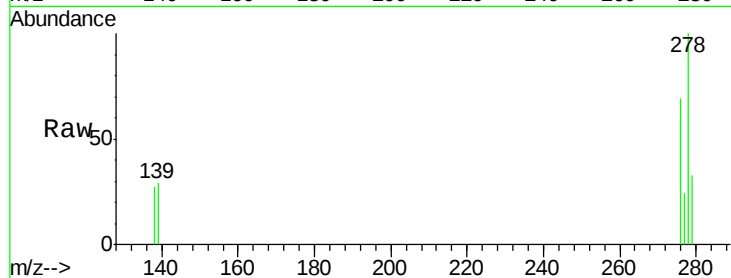
Tot Ion:278 Resp: 2679

Ion Ratio Lower Upper

278 100

139 29.3 56.0 84.0#

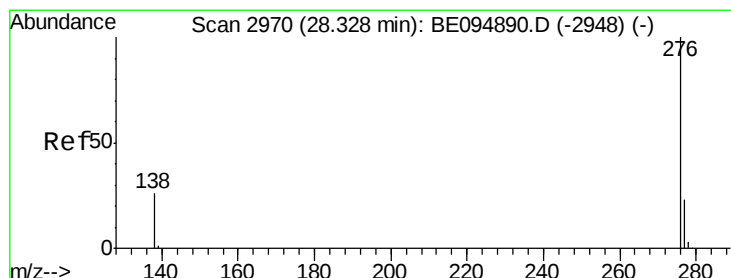
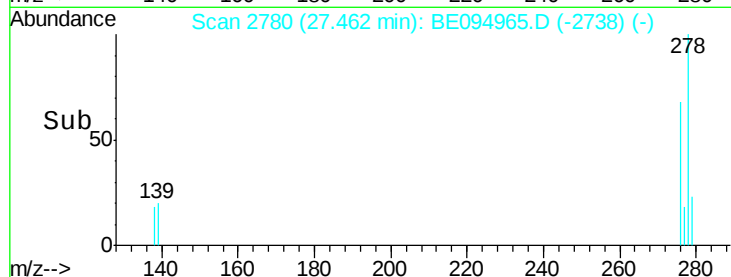
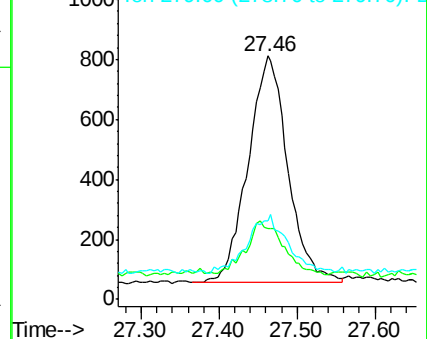
279 32.5 52.0 78.0#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#39

Benzo(g,h,i)perylene

Concen: 0.053 ng

RT: 28.32 min Scan# 2968

Delta R.T. -0.01 min

Lab File: BE094965.D

Acq: 9 Dec 2017 1:00

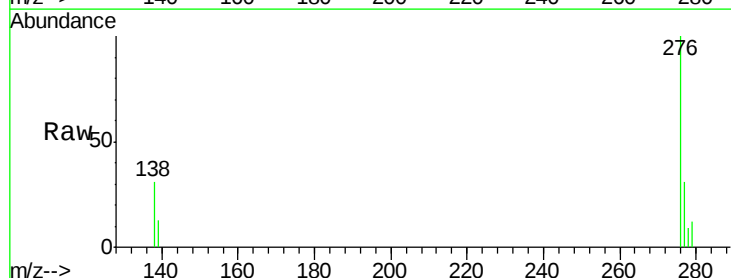
Tgt Ion:276 Resp: 2977

Ion Ratio Lower Upper

276 100

277 30.9 52.0 78.0#

138 30.5 44.0 66.0#



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

