

Data Path : Z:\HPCHEM1\BNA E\DATA\BE120817\
 Data File : BE094961.D
 Acq On : 8 Dec 2017 22:31
 Operator : SJ/JU
 Sample : I6740-08
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 FT-PZ-461I-20171204

Quant Time: Dec 09 00:29:34 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	8.49	152	7862	0.40	ng	0.00
7) Naphthalene-d8	11.33	136	18120	0.40	ng	0.00
13) Acenaphthene-d10	15.08	164	10558	0.40	ng	0.00
19) Phenanthrene-d10	17.79	188	25647	0.40	ng	0.01
27) Chrysene-d12	21.88	240	28030	0.40	ng	0.00
34) Perylene-d12	24.57	264	22470	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.95	112	2149	0.17	ng	0.00
5) Phenol-d6	7.60	99	2315	0.13	ng	0.01
8) Nitrobenzene-d5	9.67	82	6329	0.59	ng	0.00
11) 2-Methylnaphthalene-d10	12.87	152	10735	0.37	ng	0.00
14) 2,4,6-Tribromophenol	16.55	330	1257	0.54	ng	0.01
15) 2-Fluorobiphenyl	13.71	172	28064	0.62	ng	0.00
25) Fluoranthene-d10	19.76	212	131486	0.38	ng	0.00
29) Terphenyl-d14	20.33	244	31133	0.60	ng	0.00

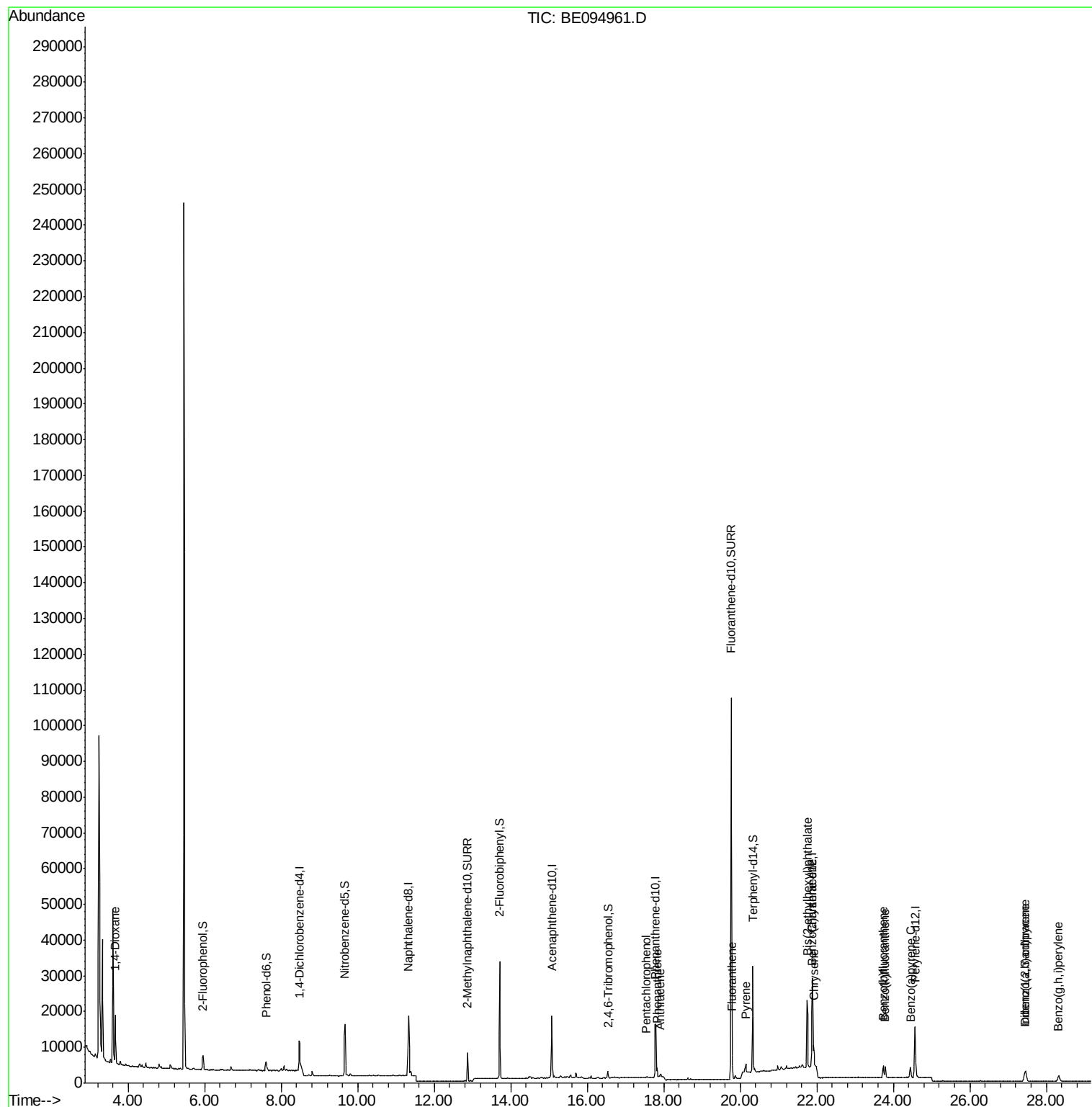
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.66	88	8453	1.028	ng	90
22) Pentachlorophenol	17.53	266	39	0.142	ng	92
23) Phenanthrene	17.82	178	2937	0.036	ng	# 82
24) Anthracene	17.91	178	2171	0.025	ng	# 55
26) Fluoranthene	19.79	202	2777	0.026	ng	# 93
28) Pyrene	20.14	202	2437	0.025	ng	# 79
30) Benzo(a)anthracene	21.87	228	5077	0.059	ng	# 65
31) Chrysene	21.92	228	6366	0.067	ng	# 67
32) Bis(2-ethylhexyl)phthalate	21.74	149	30405	0.213	ng	100
33) Indeno(1,2,3-cd)pyrene	27.43	276	4647	0.060	ng	# 90
35) Benzo(b)fluoranthene	23.73	252	5106	0.062	ng	# 50
36) Benzo(k)fluoranthene	23.79	252	4394	0.053	ng	# 48
37) Benzo(a)pyrene	24.44	252	4311	0.060	ng	# 54
38) Dibenzo(a,h)anthracene	27.46	278	3780	0.057	ng	# 58
39) Benzo(a,h,i)perylene	28.32	276	3961	0.060	ng	# 56

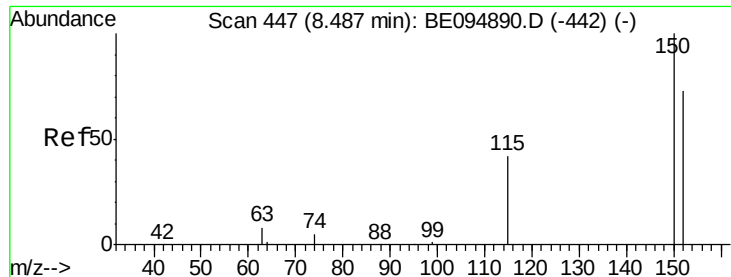
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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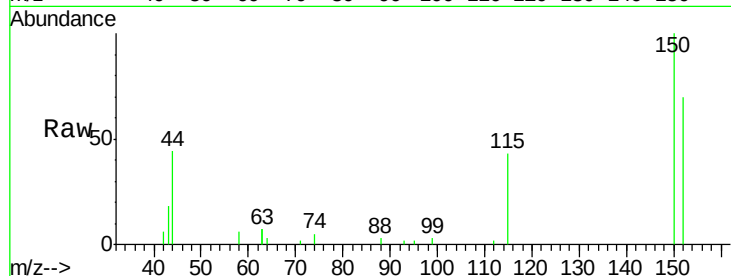


#1

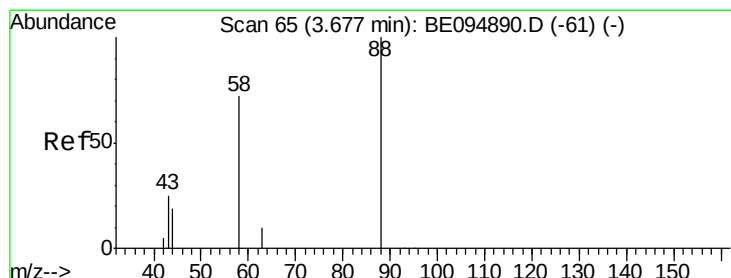
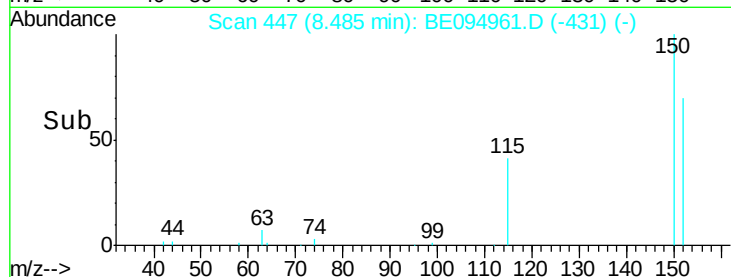
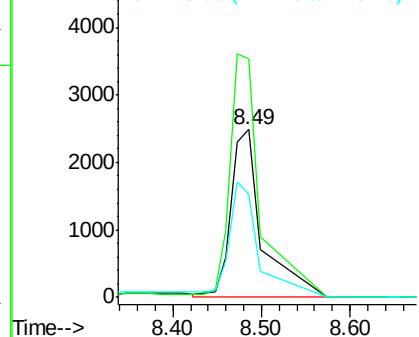
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.49 min Scan# 447
Delta R.T. -0.00 min
Lab File: BE094961.D
Acq: 8 Dec 2017 22:31

Instrument :
BNA_E
ClientSampleId :
FT-PZ-461I-20171204

Tot Ion:152 Resp: 7862
Ion Ratio Lower Upper
152 100
150 142.3 117.2 175.8
115 61.2 57.0 85.6



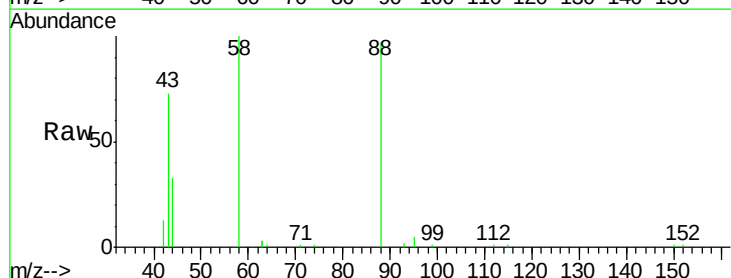
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



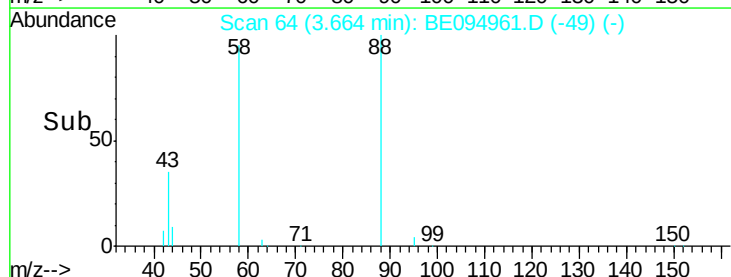
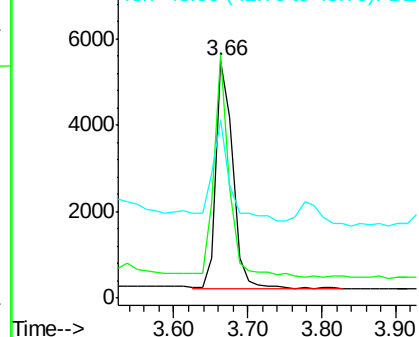
#2

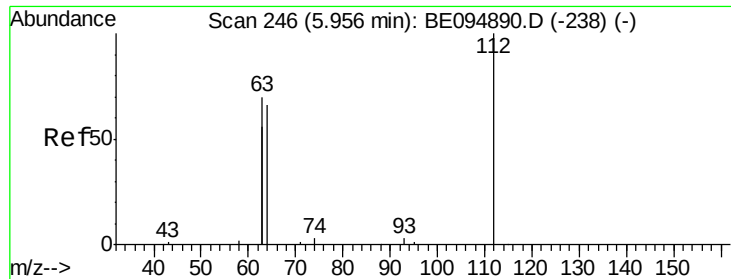
1,4-Dioxane
Concen: 1.028 ng
RT: 3.66 min Scan# 64
Delta R.T. -0.01 min
Lab File: BE094961.D
Acq: 8 Dec 2017 22:31

Tgt Ion: 88 Resp: 8453
Ion Ratio Lower Upper
88 100
58 87.9 63.2 94.8
43 44.5 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: 0.173 ng

RT: 5.95 min Scan# 246

Delta R.T. -0.00 min

Lab File: BE094961.D

Acq: 8 Dec 2017 22:31

Instrument :

BNA_E

ClientSampleId :

FT-PZ-461I-20171204

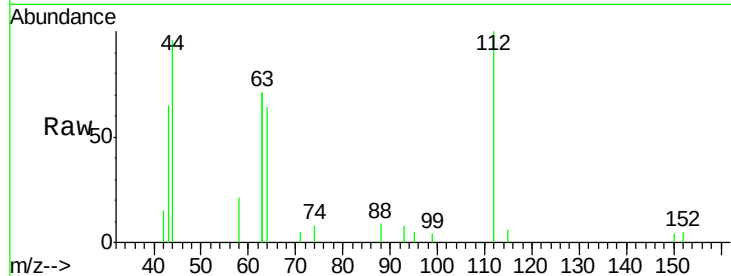
Tot Ion: 112 Resp: 2149

Ion Ratio Lower Upper

112 100

64 73.5 60.1 90.1

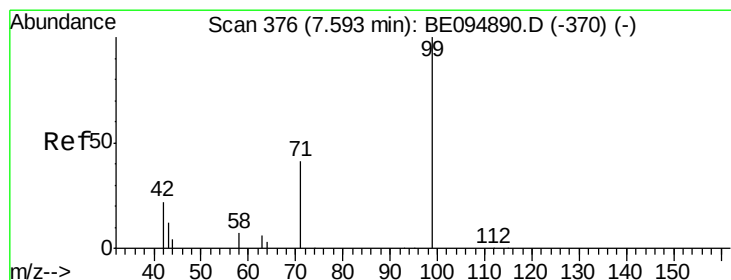
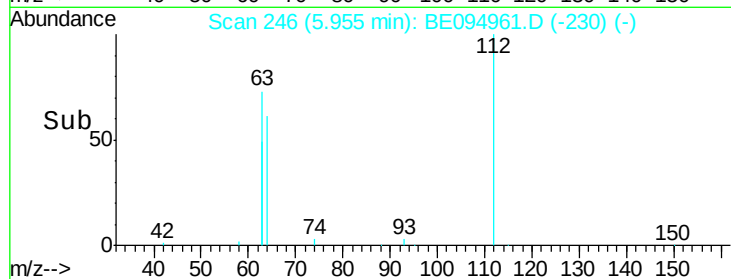
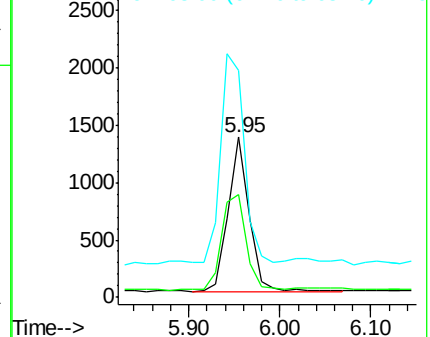
63 157.2 116.8 175.2



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: 0.126 ng

RT: 7.60 min Scan# 377

Delta R.T. 0.01 min

Lab File: BE094961.D

Acq: 8 Dec 2017 22:31

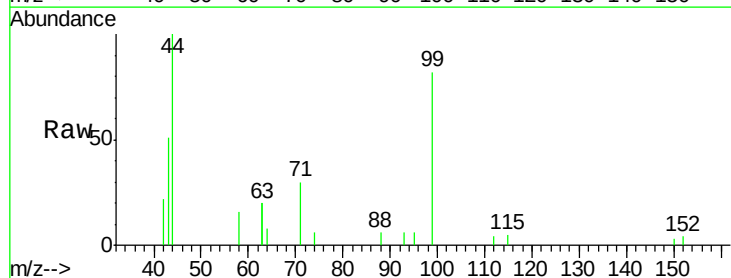
Tgt Ion: 99 Resp: 2315

Ion Ratio Lower Upper

99 100

42 34.4 20.2 30.2#

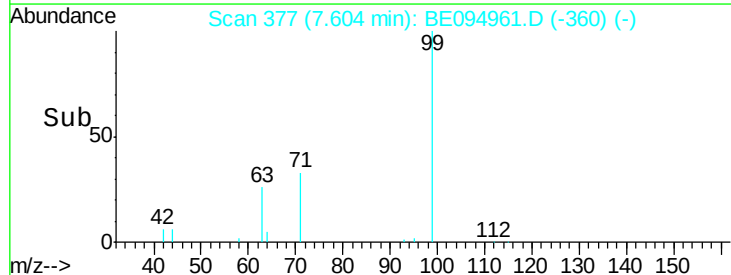
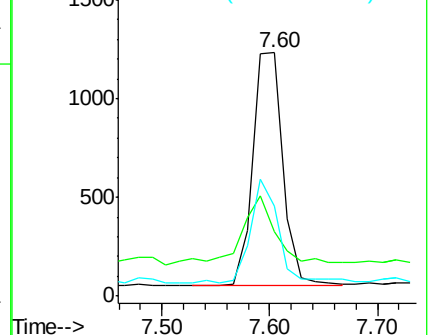
71 43.0 28.4 42.6#

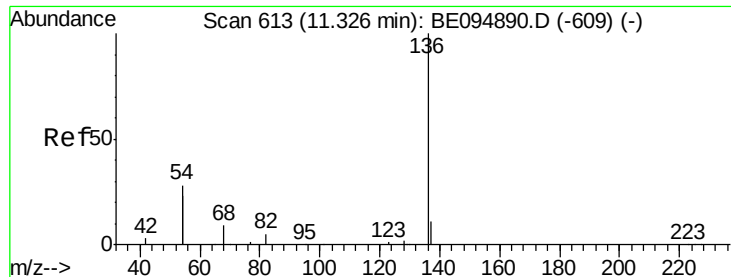


Abundance Ion 99.00 (98.70 to 99.70): BE0

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: BE094961.D

Acq: 8 Dec 2017 22:31

Instrument :

BNA_E

ClientSampleId :

FT-PZ-461I-20171204

Tot Ion:136 Resp: 18120

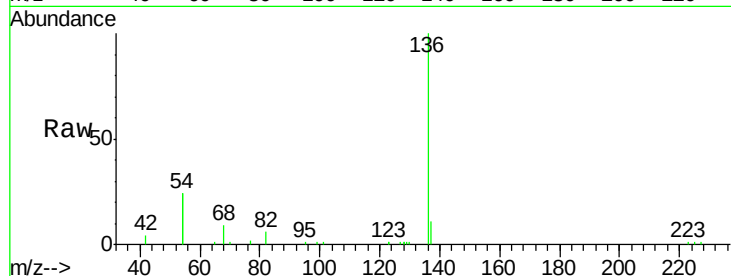
Ion Ratio Lower Upper

136 100

137 11.0 9.5 14.3

54 47.7 29.1 43.7#

68 9.3 6.2 9.2#

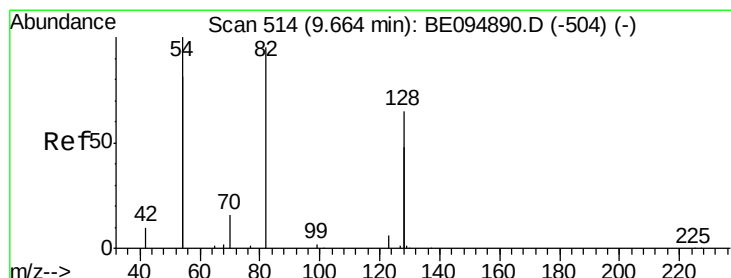
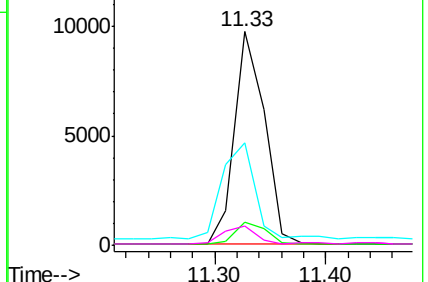
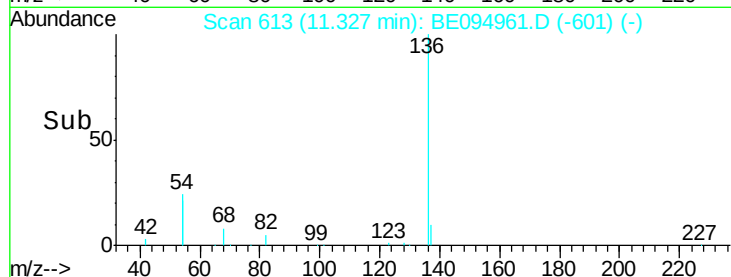


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.590 ng

RT: 9.67 min Scan# 514

Delta R.T. 0.00 min

Lab File: BE094961.D

Acq: 8 Dec 2017 22:31

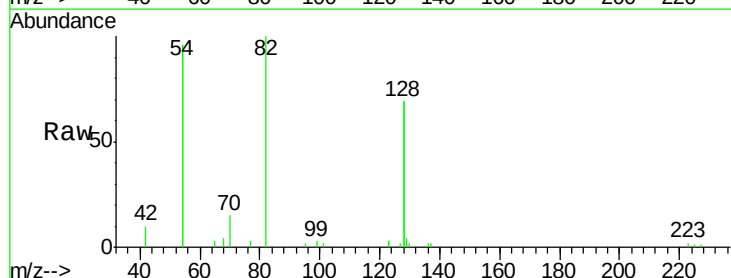
Tgt Ion: 82 Resp: 6329

Ion Ratio Lower Upper

82 100

128 137.8 150.0 225.0#

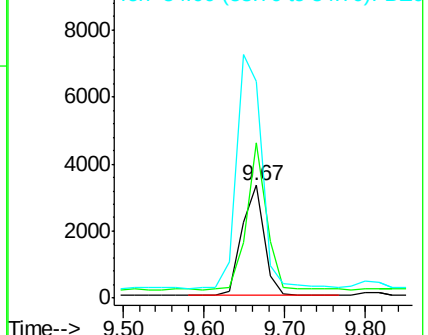
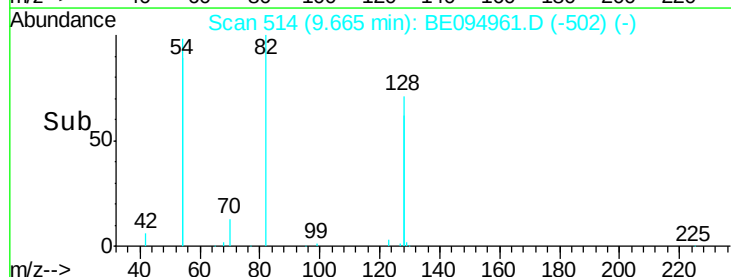
54 192.2 154.2 231.4

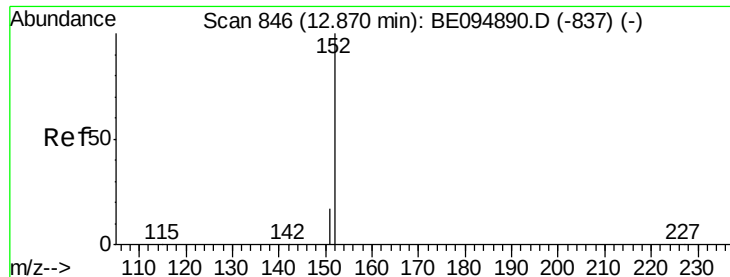


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

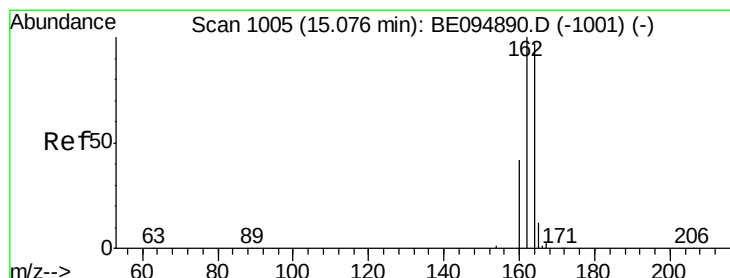
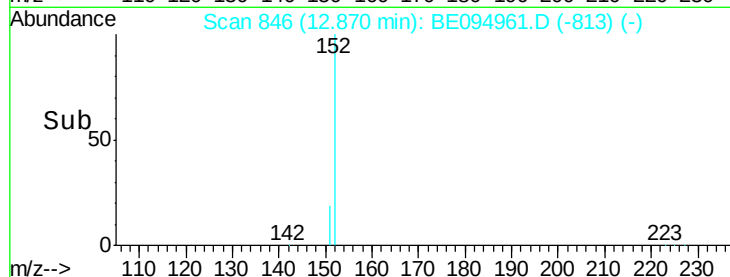
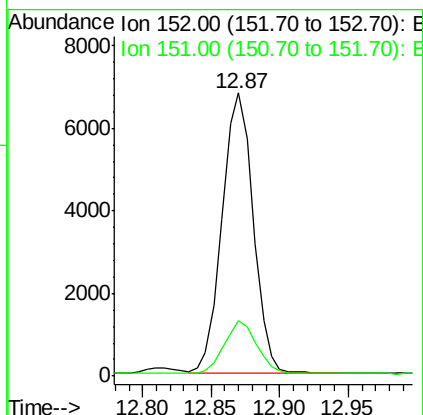
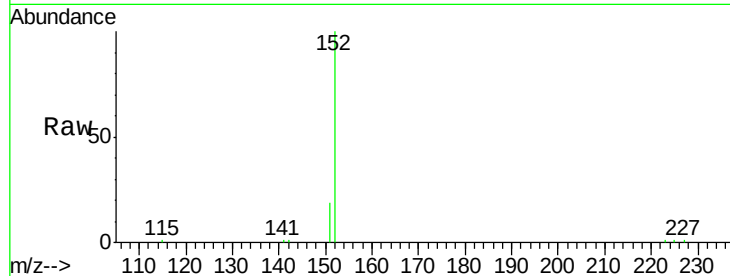




#11
 2-Methylnaphthalene-d10
 Concen: 0.371 ng
 RT: 12.87 min Scan# 846
 Delta R.T. -0.00 min
 Lab File: BE094961.D
 Acq: 8 Dec 2017 22:31

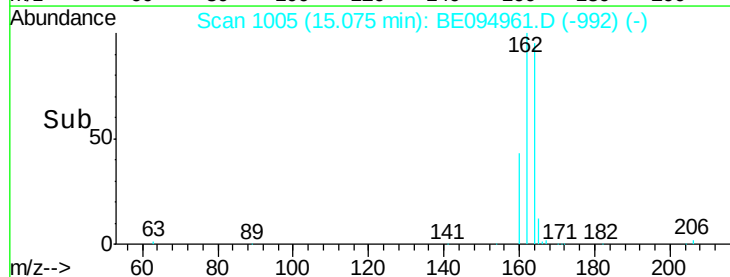
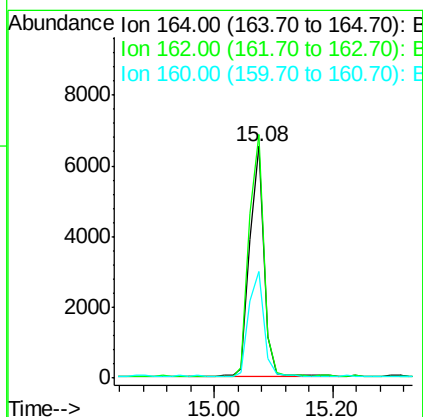
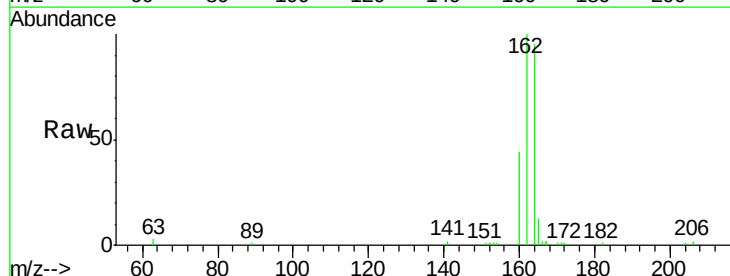
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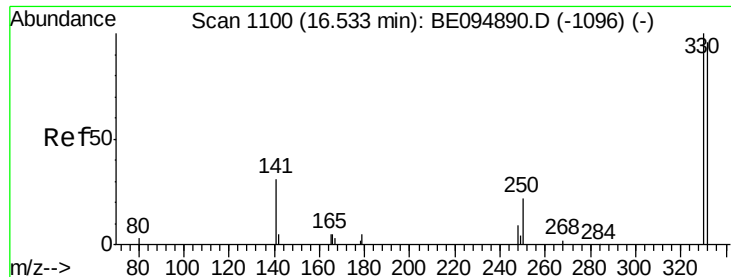
Tot Ion:152 Resp: 10735
 Ion Ratio Lower Upper
 152 100
 151 19.6 15.4 23.0



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 15.08 min Scan# 1005
 Delta R.T. -0.00 min
 Lab File: BE094961.D
 Acq: 8 Dec 2017 22:31

Tgt Ion:164 Resp: 10558
 Ion Ratio Lower Upper
 164 100
 162 105.0 83.1 124.7
 160 45.8 37.1 55.7

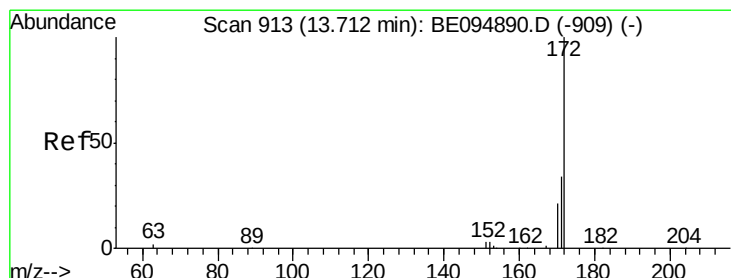
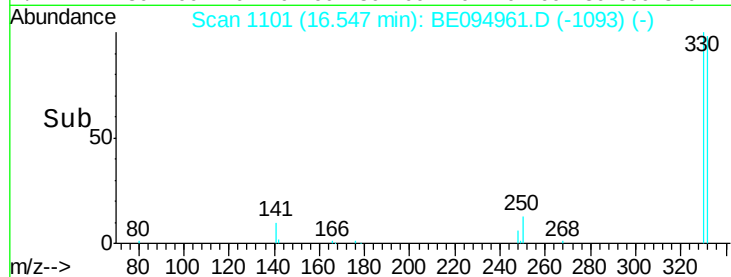
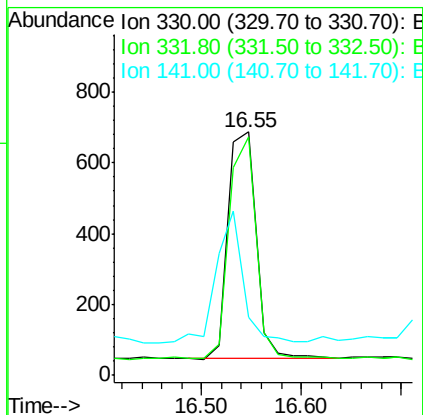
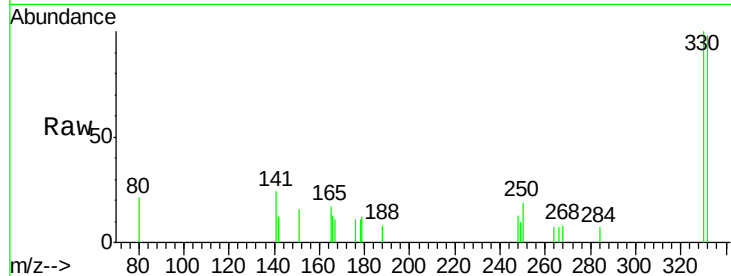




#14
 2,4,6-Tribromophenol
 Concen: 0.542 ng
 RT: 16.55 min Scan# 1101
 Delta R.T. 0.01 min
 Lab File: BE094961.D
 Acq: 8 Dec 2017 22:31

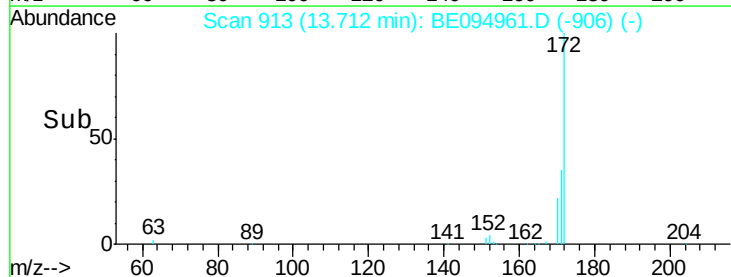
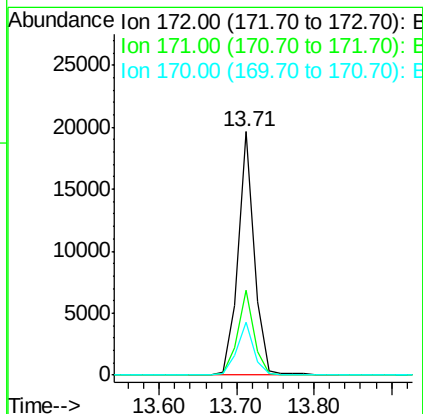
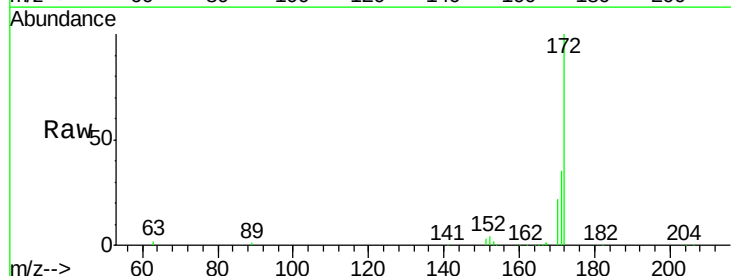
Instrument :
 BNA_E
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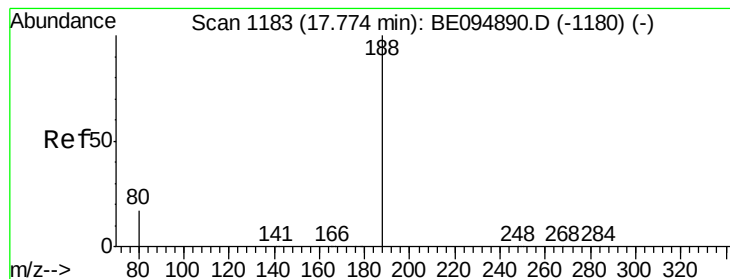
Tot Ion:330 Resp: 1257
 Ion Ratio Lower Upper
 330 100
 332 93.9 152.7 229.1#
 141 55.0 33.7 50.5#



#15
 2-Fluorobiphenyl
 Concen: 0.621 ng
 RT: 13.71 min Scan# 913
 Delta R.T. -0.00 min
 Lab File: BE094961.D
 Acq: 8 Dec 2017 22:31

Tgt Ion:172 Resp: 28064
 Ion Ratio Lower Upper
 172 100
 171 35.1 29.9 44.9
 170 21.8 21.8 32.8#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.79 min Scan# 1184

Delta R.T. 0.01 min

Lab File: BE094961.D

Acq: 8 Dec 2017 22:31

Instrument :

BNA_E

ClientSampleId :

FT-PZ-461I-20171204

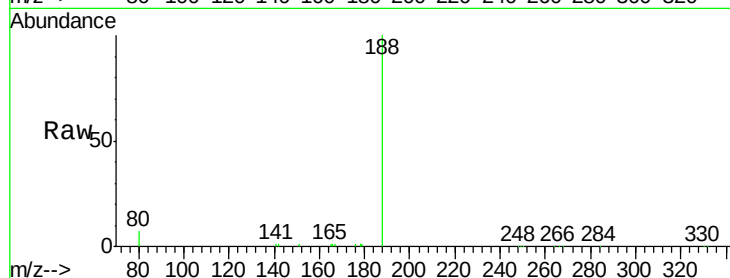
Tot Ion:188 Resp: 25647

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

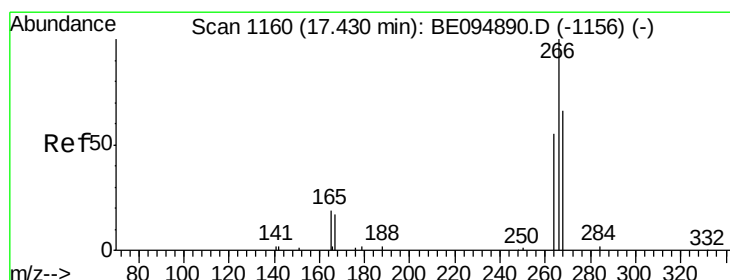
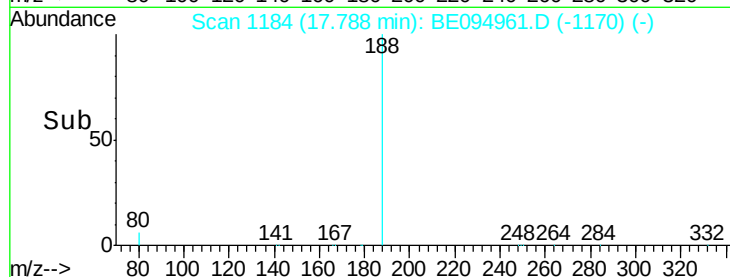
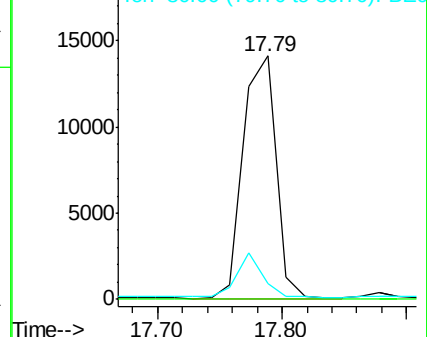
80 6.5 3.6 5.4#



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: 0.142 ng

RT: 17.53 min Scan# 1167

Delta R.T. 0.10 min

Lab File: BE094961.D

Acq: 8 Dec 2017 22:31

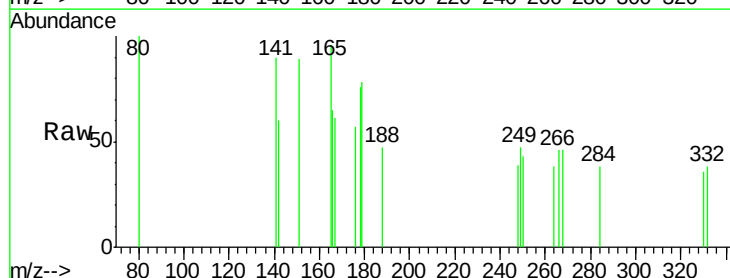
Tgt Ion:266 Resp: 39

Ion Ratio Lower Upper

266 100

264 83.9 72.5 108.7

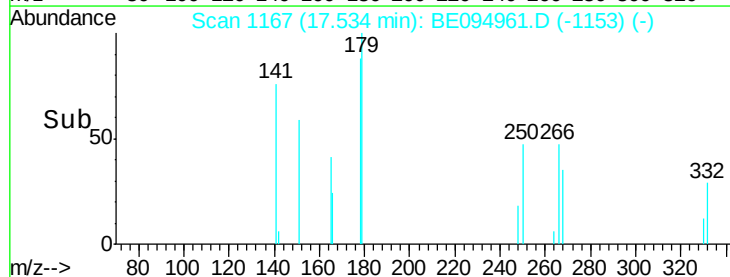
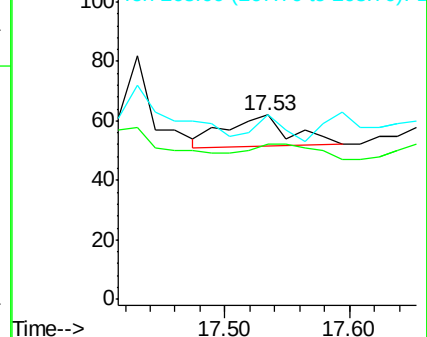
268 100.0 73.8 110.6

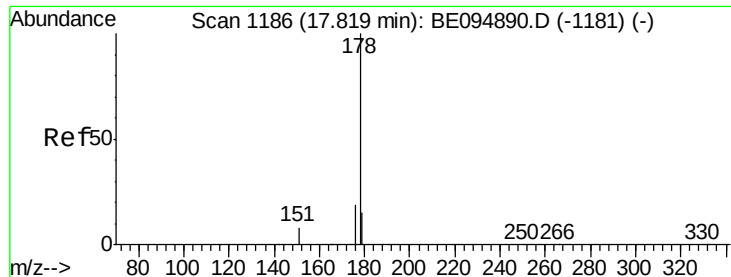


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.036 ng

RT: 17.82 min Scan# 1186

Delta R.T. -0.00 min

Lab File: BE094961.D

Acq: 8 Dec 2017 22:31

Instrument :

BNA_E

ClientSampleId :

FT-PZ-461I-20171204

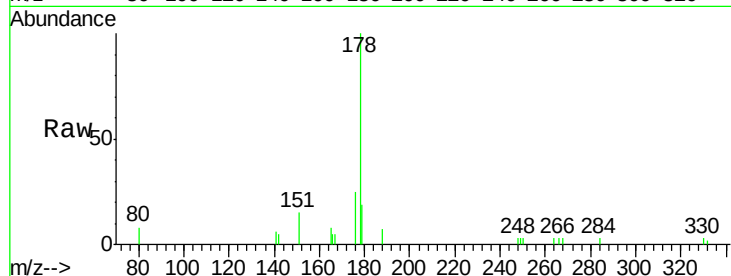
Tot Ion:178 Resp: 2937

Ion Ratio Lower Upper

178 100

176 24.3 15.1 22.7#

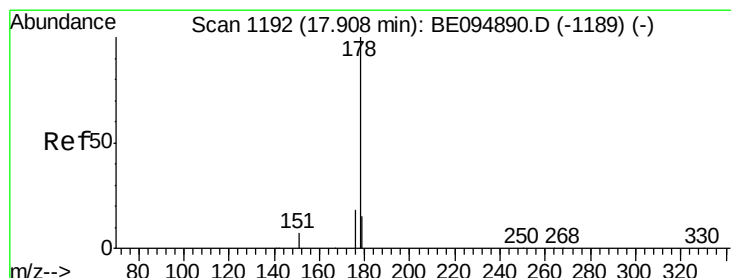
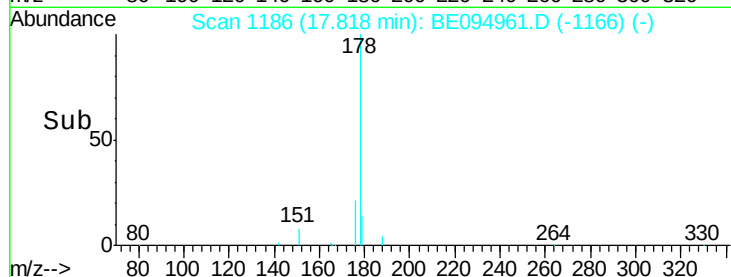
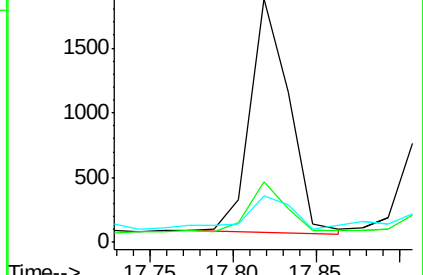
179 25.2 11.8 17.6#



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: 0.025 ng

RT: 17.91 min Scan# 1192

Delta R.T. -0.00 min

Lab File: BE094961.D

Acq: 8 Dec 2017 22:31

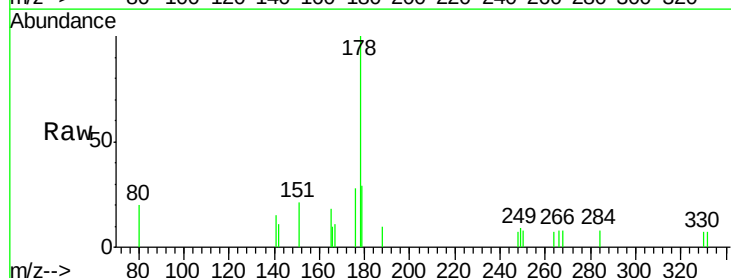
Tgt Ion:178 Resp: 2171

Ion Ratio Lower Upper

178 100

176 44.2 12.8 19.2#

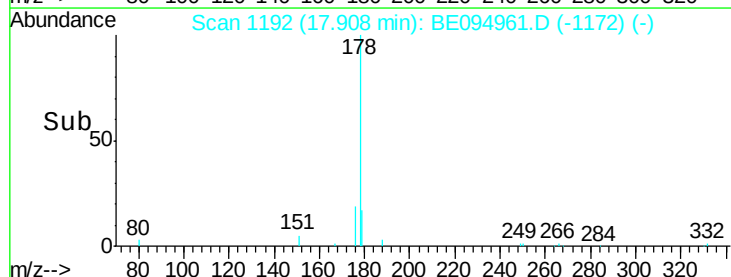
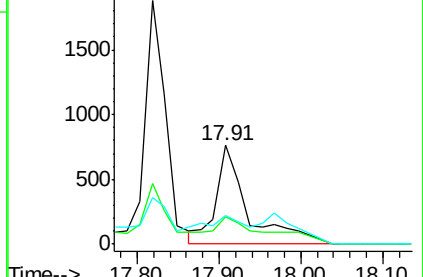
179 26.3 13.0 19.6#

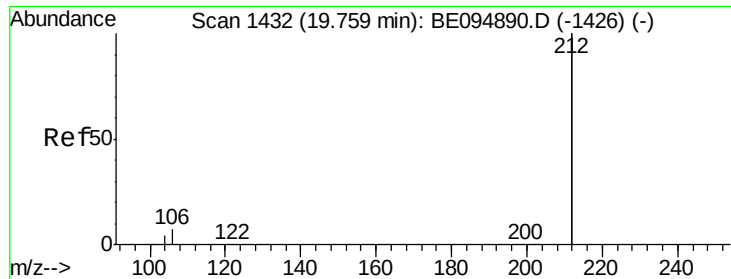


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

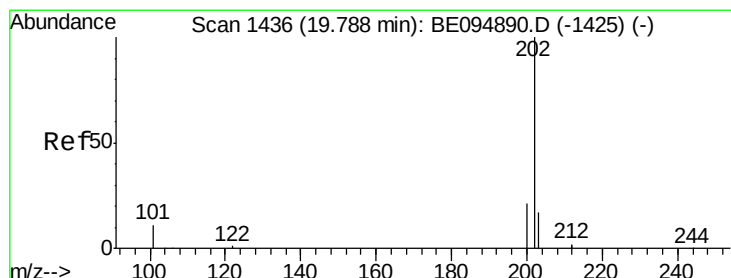
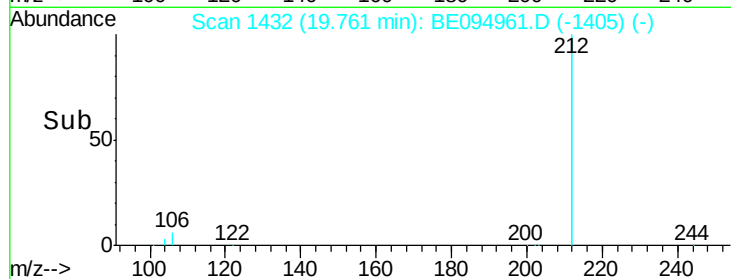
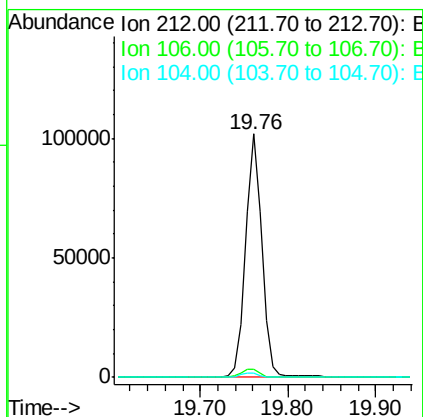
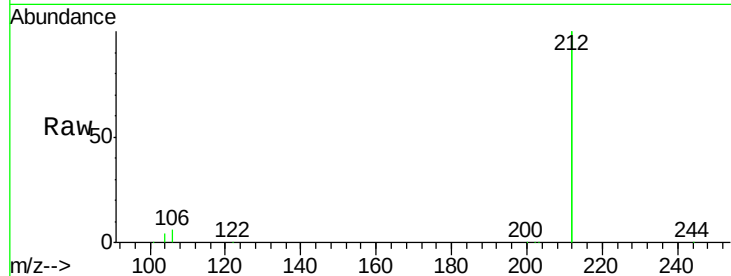




#25
 Fluoranthene-d10
 Concen: 0.375 ng
 RT: 19.76 min Scan# 1432
 Delta R.T. 0.00 min
 Lab File: BE094961.D
 Acq: 8 Dec 2017 22:31

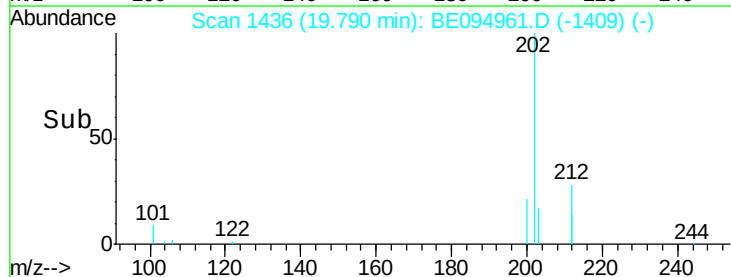
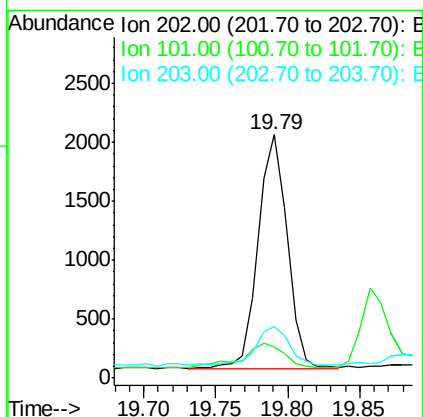
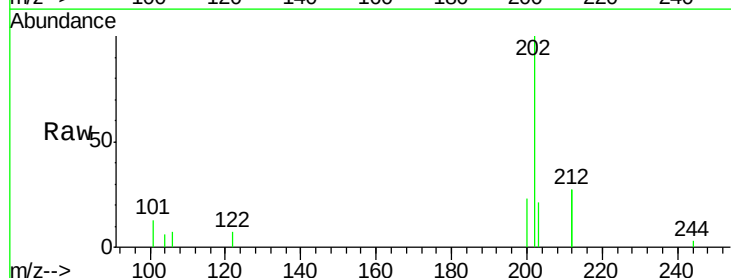
Instrument :
 BNA_E
 ClientSampleId :
 FT-PZ-461I-20171204

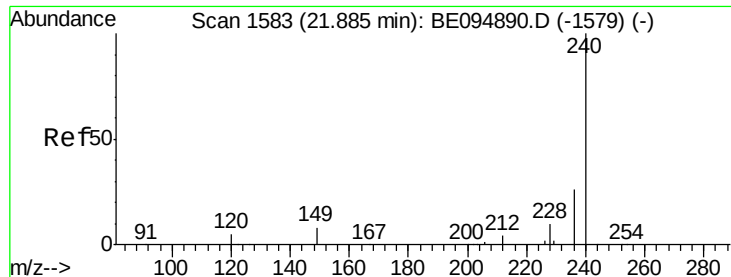
Tot Ion:212 Resp: 131486
 Ion Ratio Lower Upper
 212 100
 106 3.4 2.8 4.2
 104 2.0 1.6 2.4



#26
 Fluoranthene
 Concen: 0.026 ng
 RT: 19.79 min Scan# 1436
 Delta R.T. 0.00 min
 Lab File: BE094961.D
 Acq: 8 Dec 2017 22:31

Tgt Ion:202 Resp: 2777
 Ion Ratio Lower Upper
 202 100
 101 16.1 9.8 14.8#
 203 19.2 13.7 20.5





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.88 min Scan# 1583

Delta R.T. -0.00 min

Lab File: BE094961.D

Acq: 8 Dec 2017 22:31

Instrument :

BNA_E

ClientSampleId :

FT-PZ-461I-20171204

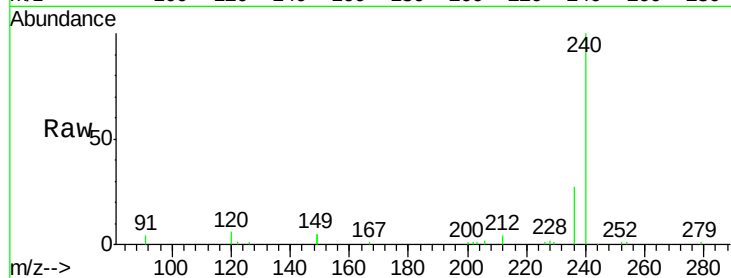
Tot Ion:240 Resp: 28030

Ion Ratio Lower Upper

240 100

120 5.7 5.5 8.3

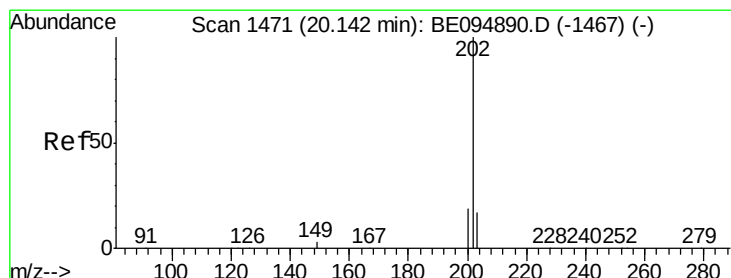
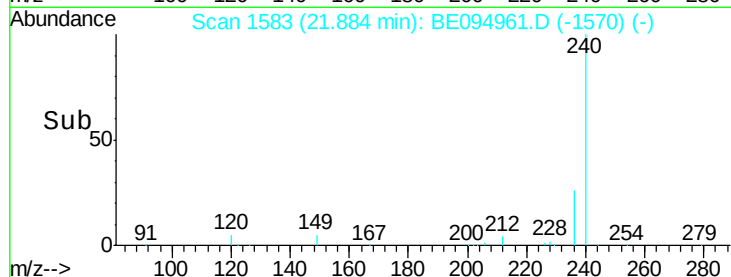
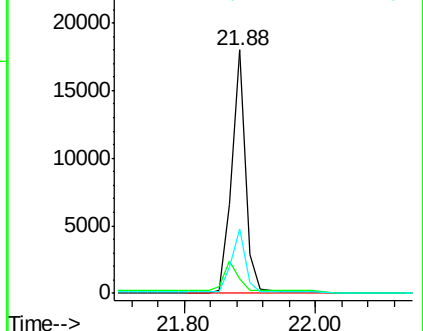
236 26.6 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 0.025 ng

RT: 20.14 min Scan# 1471

Delta R.T. -0.00 min

Lab File: BE094961.D

Acq: 8 Dec 2017 22:31

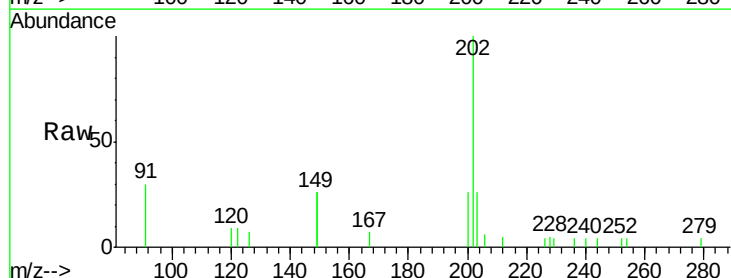
Tgt Ion:202 Resp: 2437

Ion Ratio Lower Upper

202 100

200 29.9 16.6 25.0#

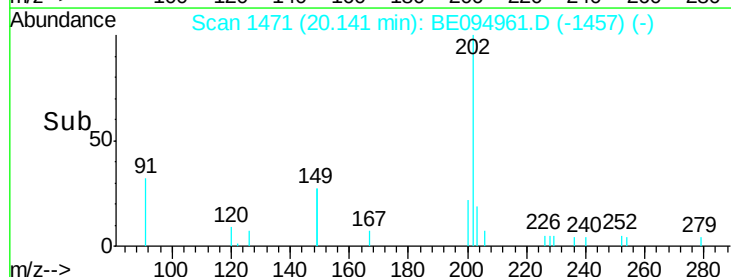
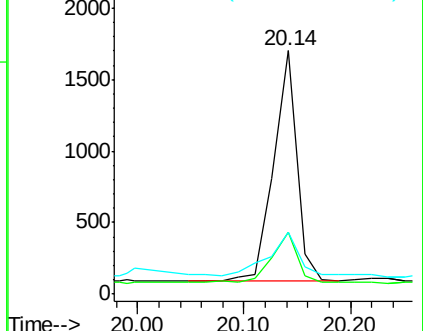
203 27.5 13.8 20.8#

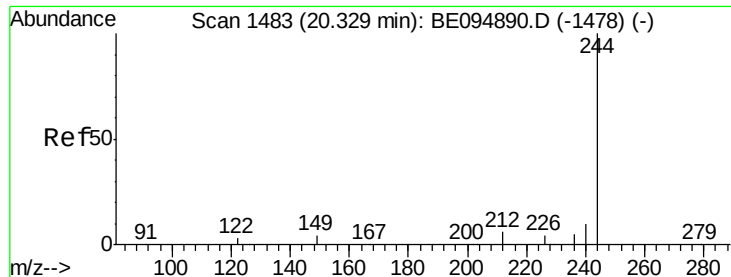


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.601 ng

RT: 20.33 min Scan# 1483

Delta R.T. -0.00 min

Lab File: BE094961.D

Acq: 8 Dec 2017 22:31

Instrument :

BNA_E

ClientSampleId :

FT-PZ-461I-20171204

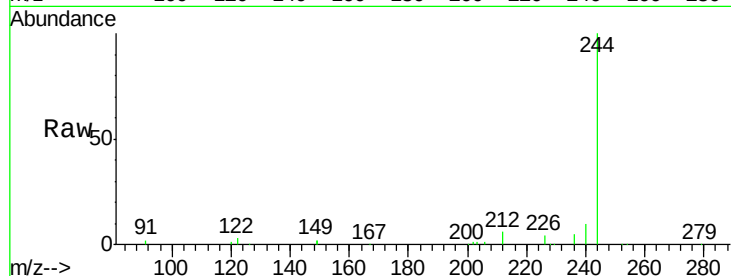
Tot Ion:244 Resp: 31133

Ion Ratio Lower Upper

244 100

212 6.0 25.4 38.0#

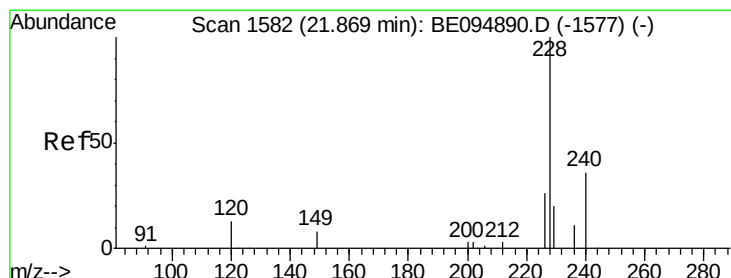
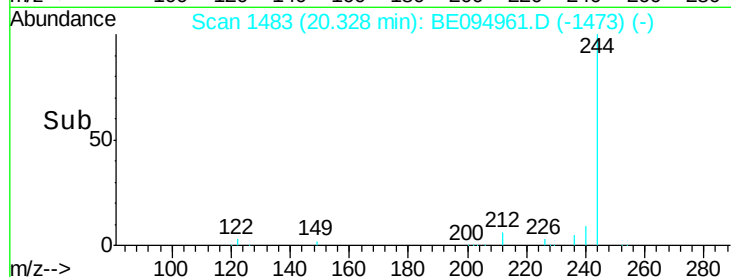
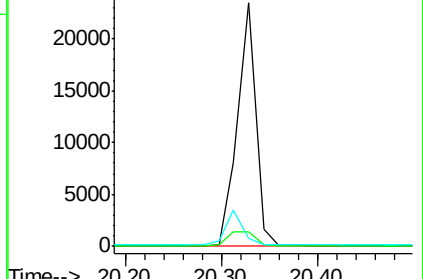
122 3.5 8.1 12.1#



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: 0.059 ng

RT: 21.87 min Scan# 1582

Delta R.T. -0.00 min

Lab File: BE094961.D

Acq: 8 Dec 2017 22:31

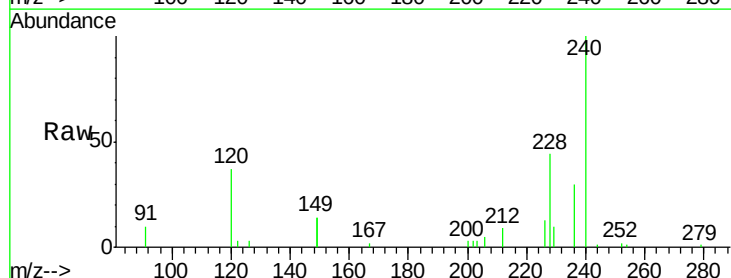
Tgt Ion:228 Resp: 5077

Ion Ratio Lower Upper

228 100

226 29.0 40.0 60.0#

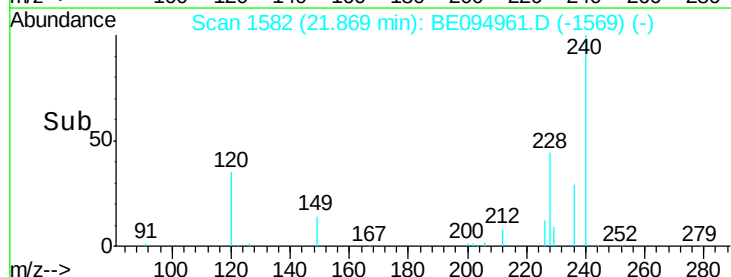
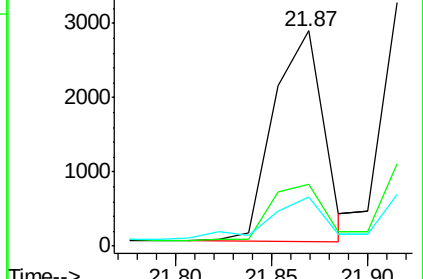
229 22.6 40.0 60.0#

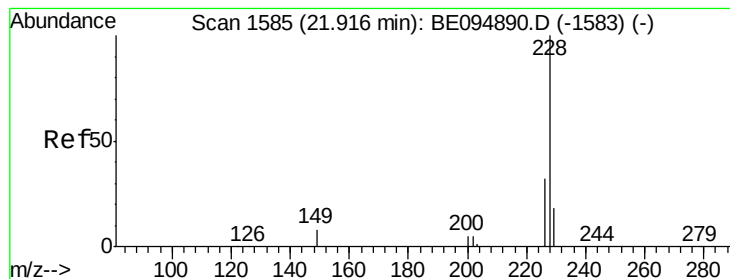


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.067 ng

RT: 21.92 min Scan# 1585

Delta R.T. -0.00 min

Lab File: BE094961.D

Acq: 8 Dec 2017 22:31

Instrument :

BNA_E

ClientSampleId :

FT-PZ-461I-20171204

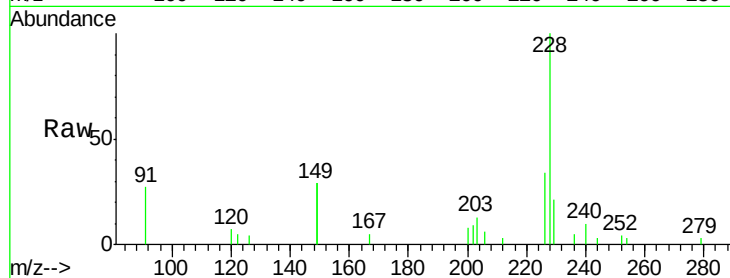
Tot Ion:228 Resp: 6366

Ion Ratio Lower Upper

228 100

226 33.8 40.0 60.0#

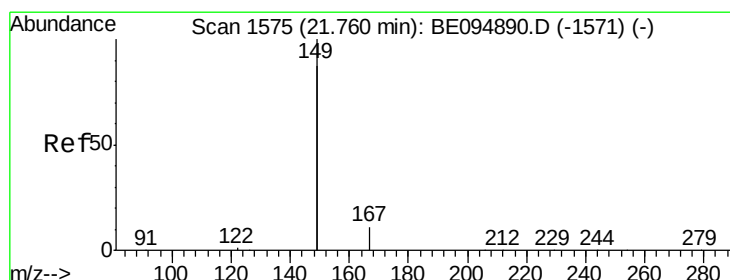
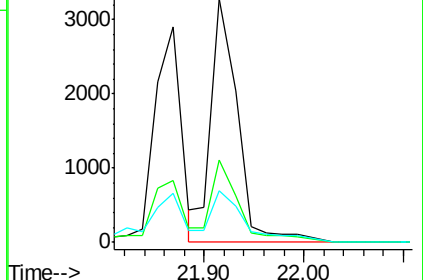
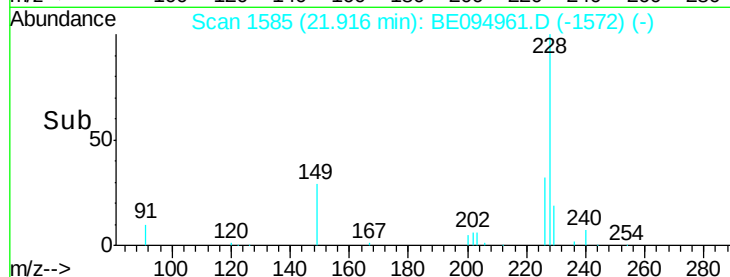
229 21.4 40.0 60.0#



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.213 ng

RT: 21.74 min Scan# 1574

Delta R.T. -0.02 min

Lab File: BE094961.D

Acq: 8 Dec 2017 22:31

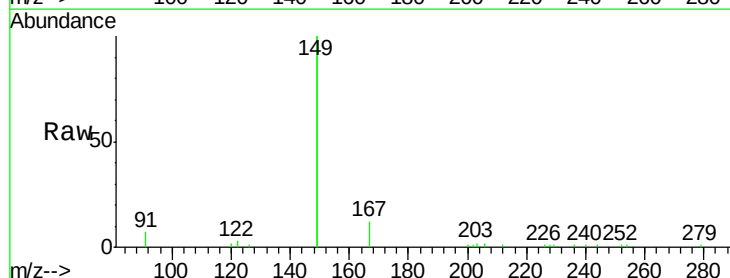
Tgt Ion:149 Resp: 30405

Ion Ratio Lower Upper

149 100

167 6.6 5.4 8.0

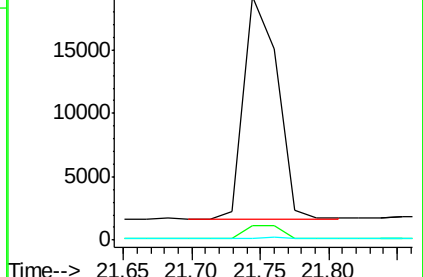
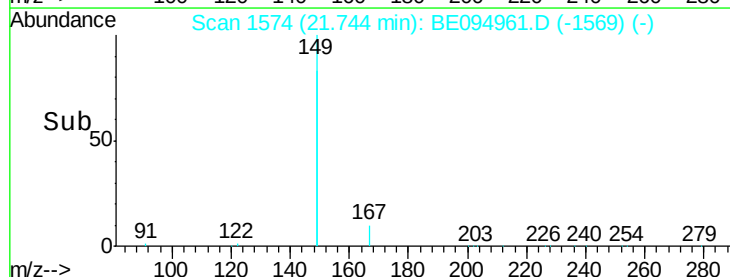
279 0.8 0.7 1.1

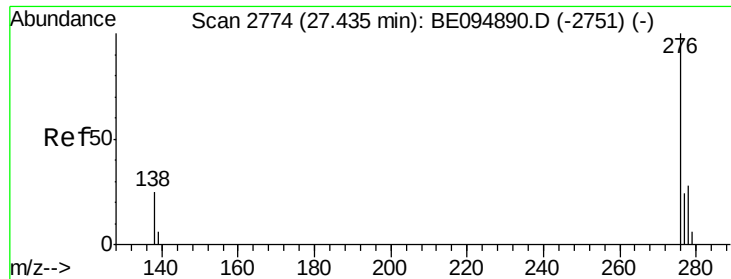


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.060 ng

RT: 27.43 min Scan# 2773

Delta R.T. -0.01 min

Lab File: BE094961.D

Acq: 8 Dec 2017 22:31

Instrument :

BNA_E

ClientSampleId :

FT-PZ-461I-20171204

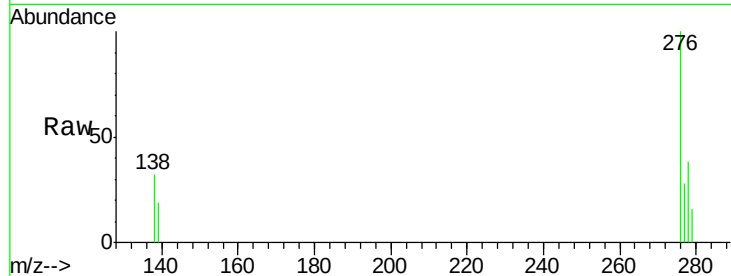
Tot Ion:276 Resp: 4647

Ion Ratio Lower Upper

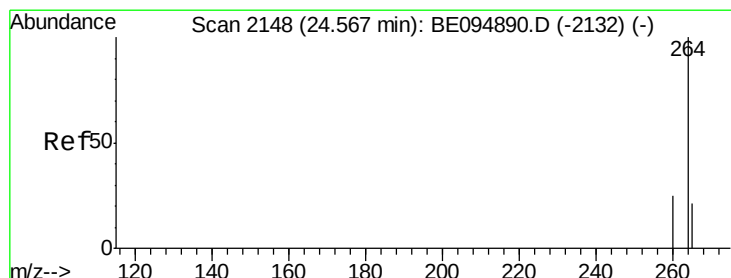
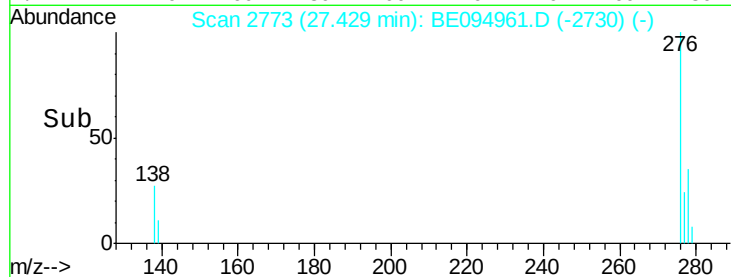
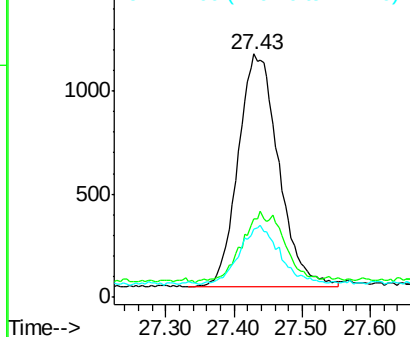
276 100

138 18.7 22.5 33.7#

277 24.4 19.9 29.9



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



#34

Perylene-d12

Concen: 0.400 ng

RT: 24.57 min Scan# 2148

Delta R.T. -0.00 min

Lab File: BE094961.D

Acq: 8 Dec 2017 22:31

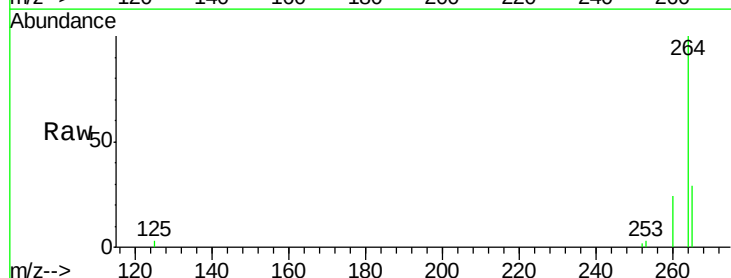
Tgt Ion:264 Resp: 22470

Ion Ratio Lower Upper

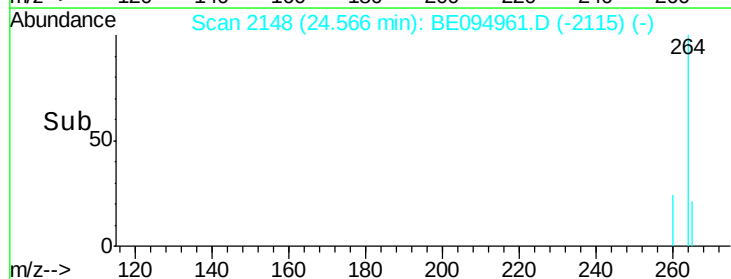
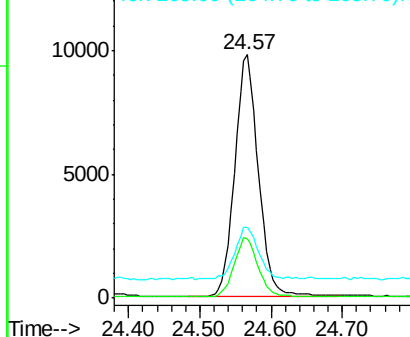
264 100

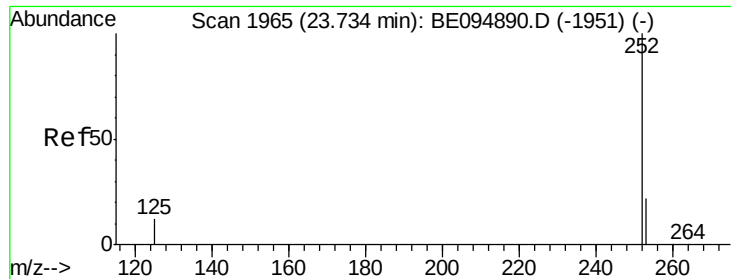
260 24.3 20.5 30.7

265 28.9 22.8 34.2



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





#35

Benzo(b)fluoranthene

Concen: 0.062 ng

RT: 23.73 min Scan# 1965

Delta R.T. -0.00 min

Lab File: BE094961.D

Acq: 8 Dec 2017 22:31

Instrument :

BNA_E

ClientSampleId :

FT-PZ-461I-20171204

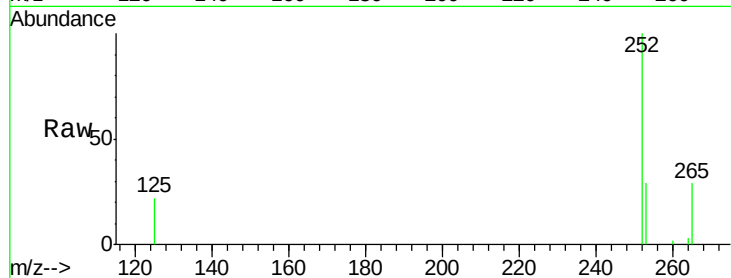
Tot Ion:252 Resp: 5106

Ion Ratio Lower Upper

252 100

253 29.3 48.0 72.0#

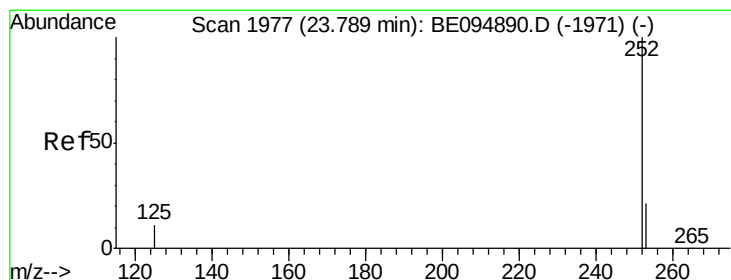
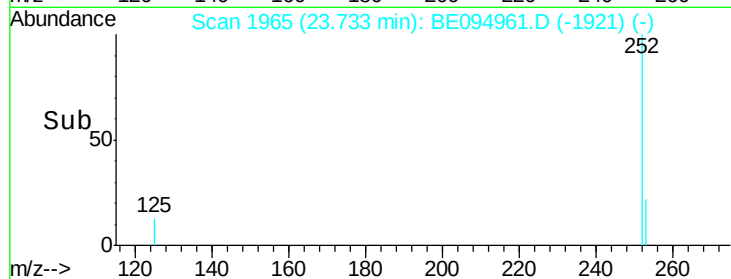
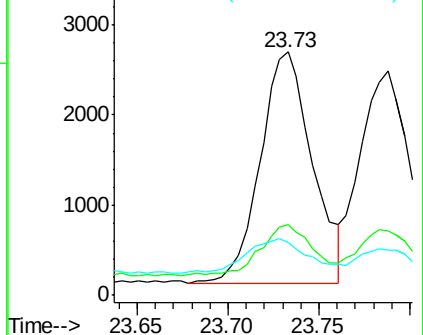
125 21.8 56.0 84.0#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#36

Benzo(k)fluoranthene

Concen: 0.053 ng

RT: 23.79 min Scan# 1977

Delta R.T. -0.00 min

Lab File: BE094961.D

Acq: 8 Dec 2017 22:31

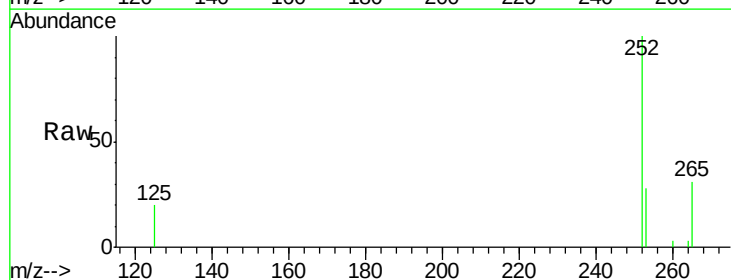
Tgt Ion:252 Resp: 4394

Ion Ratio Lower Upper

252 100

253 28.5 48.0 72.0#

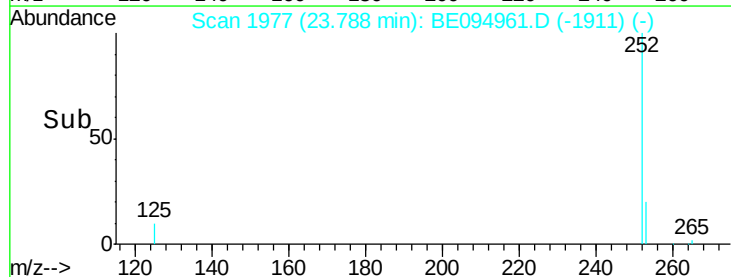
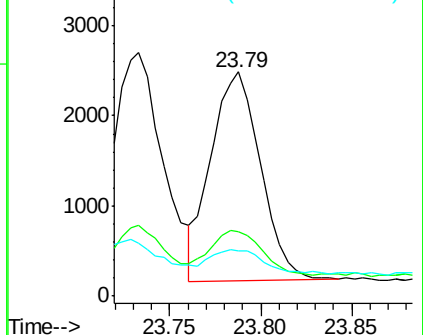
125 20.0 56.0 84.0#

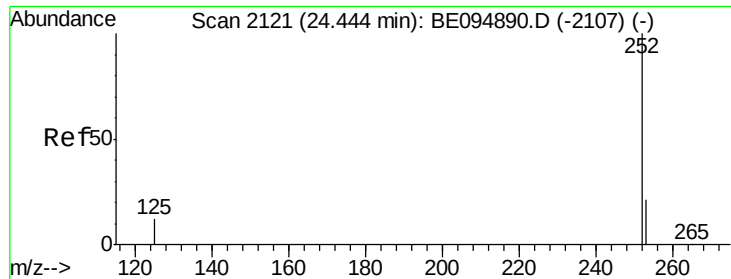


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.060 ng

RT: 24.44 min Scan# 2121

Delta R.T. -0.00 min

Lab File: BE094961.D

Acq: 8 Dec 2017 22:31

Instrument :

BNA_E

ClientSampleId :

FT-PZ-461I-20171204

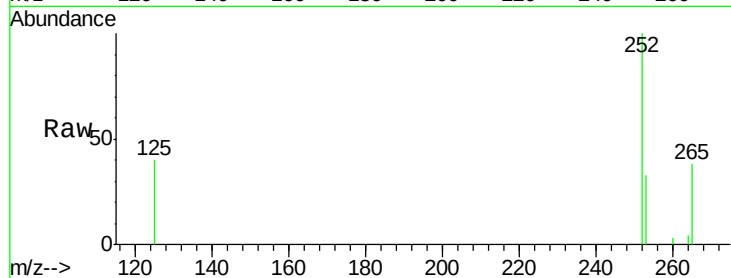
Tot Ion:252 Resp: 4311

Ion Ratio Lower Upper

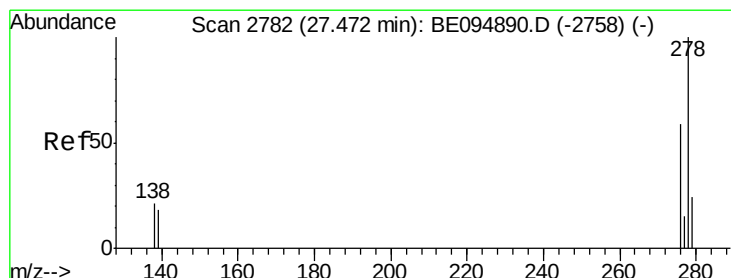
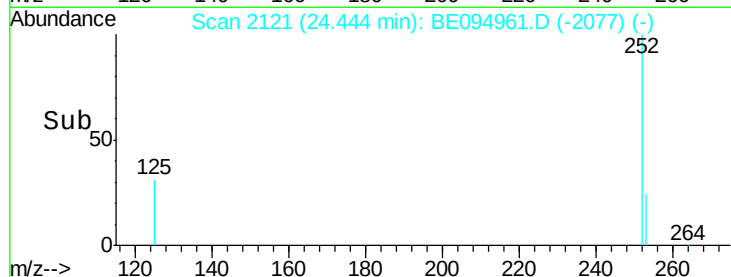
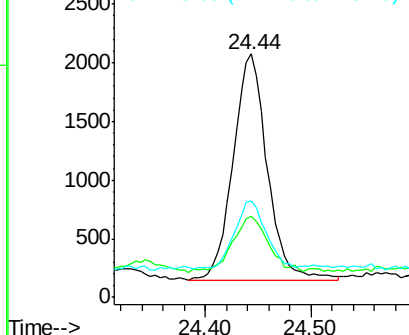
252 100

253 33.0 52.0 78.0#

125 39.6 68.0 102.0#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#38

Dibenzo(a,h)anthracene

Concen: 0.057 ng

RT: 27.46 min Scan# 2780

Delta R.T. -0.01 min

Lab File: BE094961.D

Acq: 8 Dec 2017 22:31

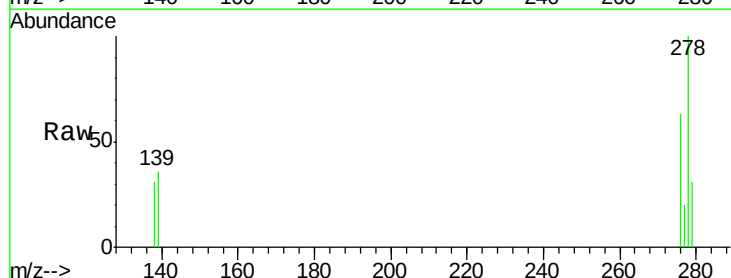
Tgt Ion:278 Resp: 3780

Ion Ratio Lower Upper

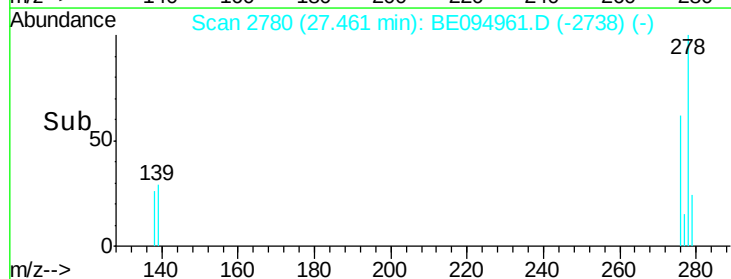
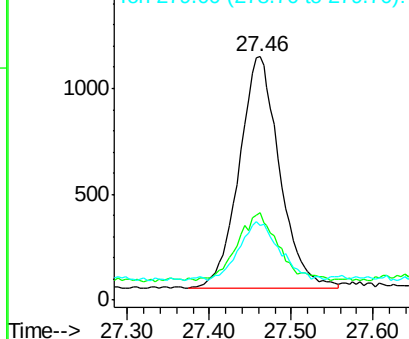
278 100

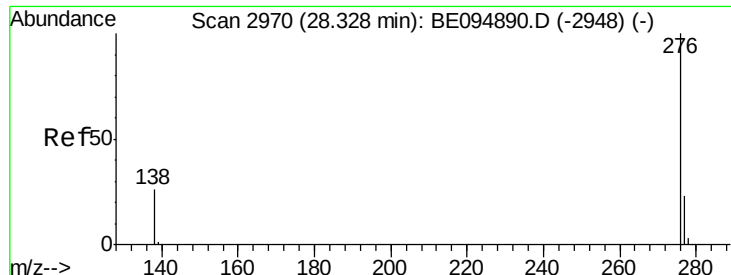
139 36.1 56.0 84.0#

279 30.8 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(a,h,i)perylene

Concen: 0.060 ng

RT: 28.32 min Scan# 2968

Delta R.T. -0.01 min

Lab File: BE094961.D

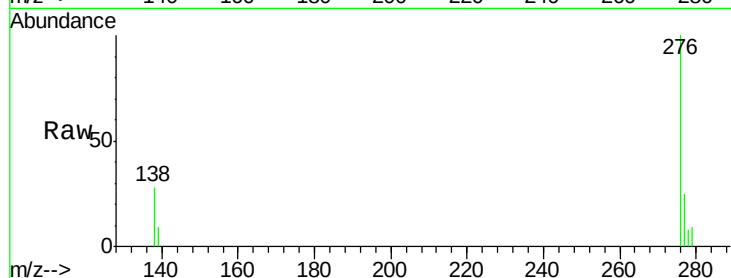
Acq: 8 Dec 2017 22:31

Instrument :

BNA_E

ClientSampleId :

FT-PZ-461I-20171204



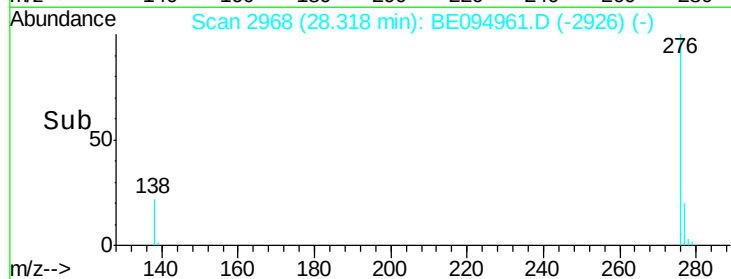
Tot Ion: 276 Resp: 3961

Ion Ratio Lower Upper

276 100

277 25.5 52.0 78.0#

138 28.4 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

