

Data Path : Z:\HPCHEM1\BNA E\DATA\BE120817\
 Data File : BE094959.D
 Acq On : 8 Dec 2017 21:19
 Operator : SJ/JU
 Sample : I6740-06
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 FT-PZ-456I-20171204

Quant Time: Dec 09 00:28:52 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	7768	0.40	ng	0.00
7) Naphthalene-d8	11.33	136	16677	0.40	ng	0.00
13) Acenaphthene-d10	15.07	164	9610	0.40	ng	0.00
19) Phenanthrene-d10	17.79	188	23426	0.40	ng	0.01
27) Chrysene-d12	21.89	240	24316	0.40	ng	0.00
34) Perylene-d12	24.57	264	19770	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.95	112	1916	0.16	ng	0.00
5) Phenol-d6	7.60	99	2129	0.12	ng	0.01
8) Nitrobenzene-d5	9.66	82	5609	0.57	ng	0.00
11) 2-Methylnaphthalene-d10	12.87	152	10006	0.38	ng	0.00
14) 2,4,6-Tribromophenol	16.53	330	995	0.49	ng	0.00
15) 2-Fluorobiphenyl	13.71	172	24614	0.60	ng	0.00
25) Fluoranthene-d10	19.76	212	117226	0.37	ng	0.00
29) Terphenyl-d14	20.33	244	27220	0.61	ng	0.00

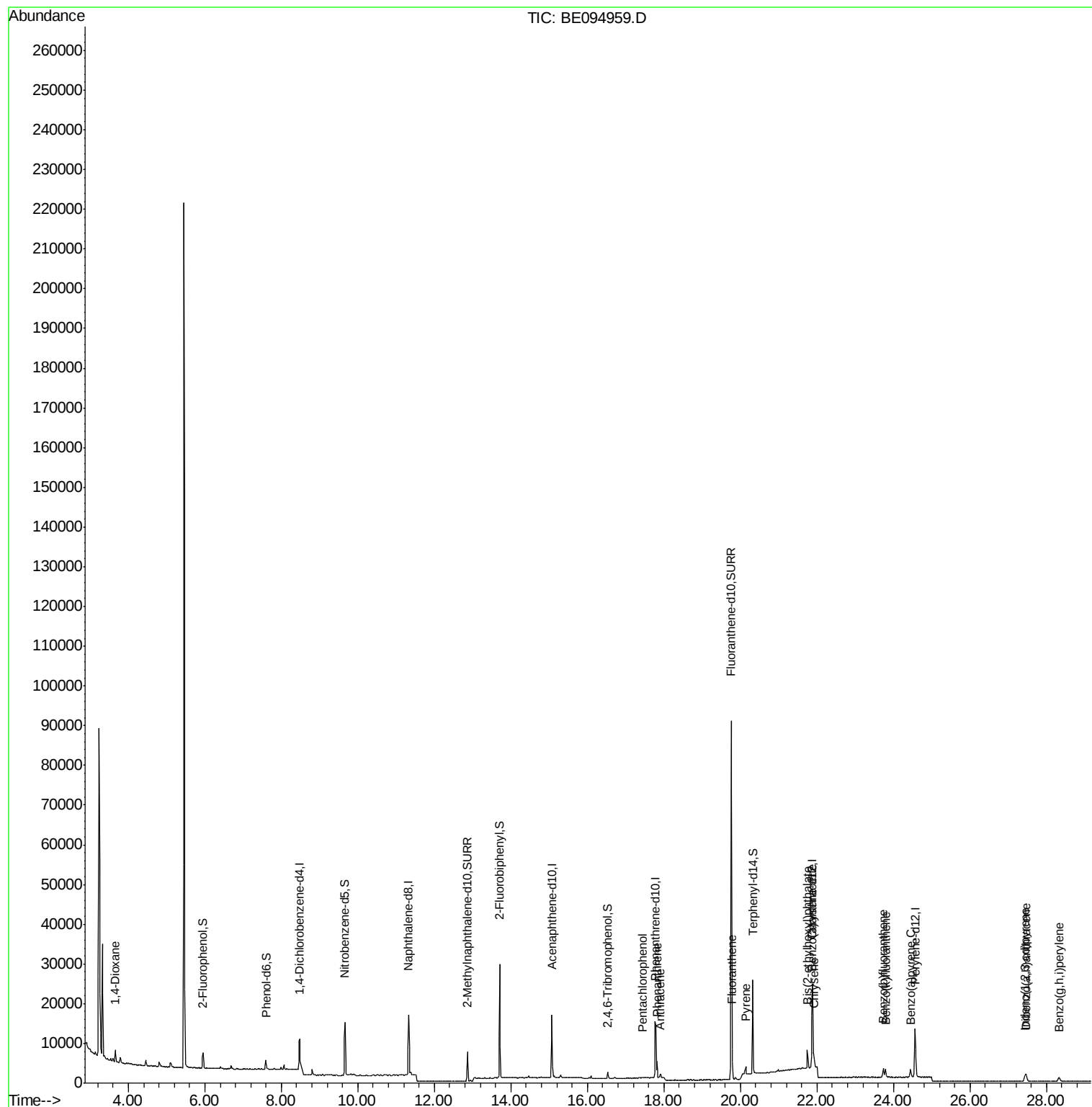
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.66	88	2314	0.285	ng	90
22) Pentachlorophenol	17.43	266	117	0.161	ng	95
23) Phenanthrene	17.82	178	4284	0.057	ng	95
24) Anthracene	17.91	178	1988	0.025	ng	# 61
26) Fluoranthene	19.79	202	3117	0.032	ng	# 95
28) Pyrene	20.14	202	2232	0.027	ng	# 93
30) Benzo(a)anthracene	21.87	228	3380	0.045	ng	# 65
31) Chrysene	21.92	228	4196	0.051	ng	# 68
32) Bis(2-ethylhexyl)phthalate	21.75	149	6887	0.056	ng	# 100
33) Indeno(1,2,3-cd)pyrene	27.43	276	3007	0.045	ng	# 85
35) Benzo(b)fluoranthene	23.74	252	3387	0.047	ng	# 53
36) Benzo(k)fluoranthene	23.79	252	3021	0.041	ng	# 54
37) Benzo(a)pyrene	24.44	252	2829	0.045	ng	# 56
38) Dibenzo(a,h)anthracene	27.47	278	2402	0.041	ng	# 62
39) Benzo(a,h,i)perylene	28.33	276	2603	0.045	ng	# 61

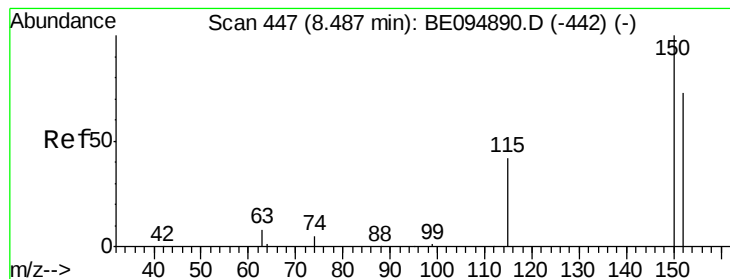
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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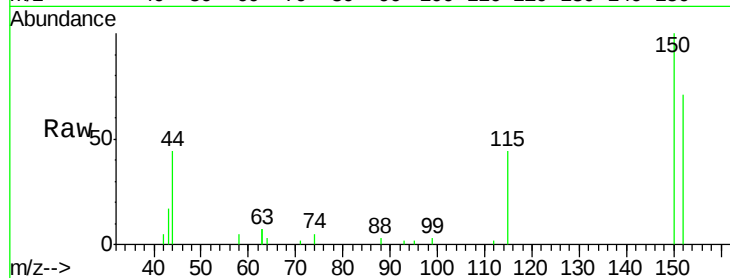


#1

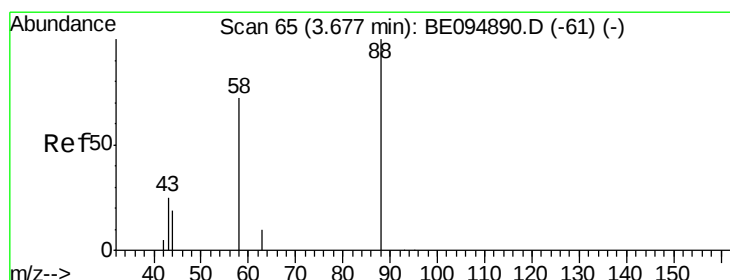
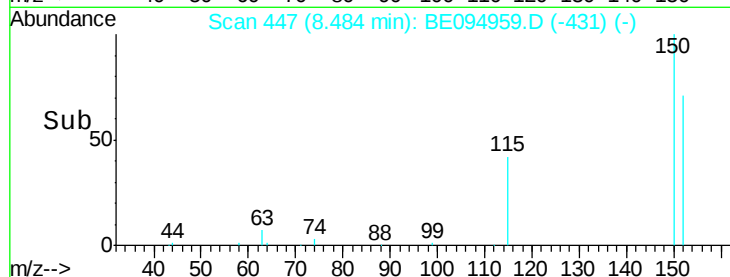
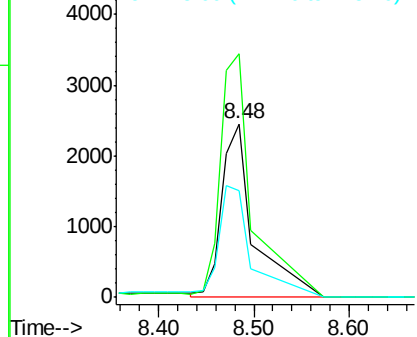
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.48 min Scan# 447
Delta R.T. -0.00 min
Lab File: BE094959.D
Acq: 8 Dec 2017 21:19

Instrument :
BNA_E
ClientSampleId :
FT-PZ-456I-20171204

Tot Ion:152 Resp: 7768
Ion Ratio Lower Upper
152 100
150 140.1 117.2 175.8
115 61.4 57.0 85.6



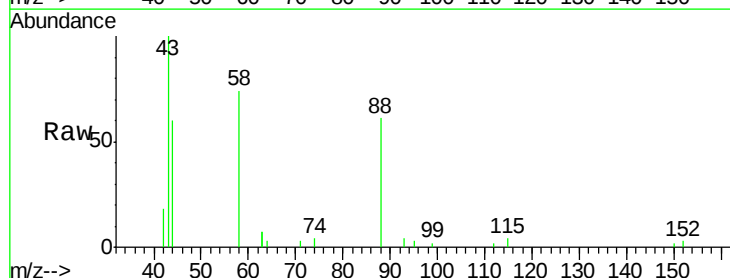
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



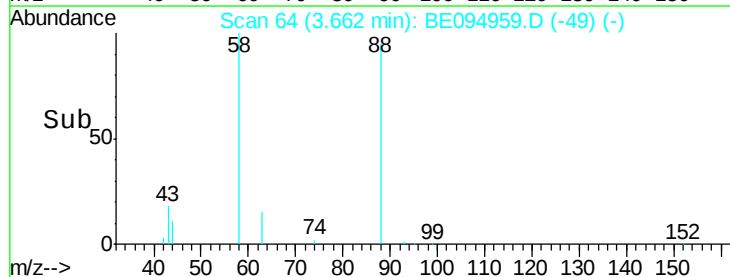
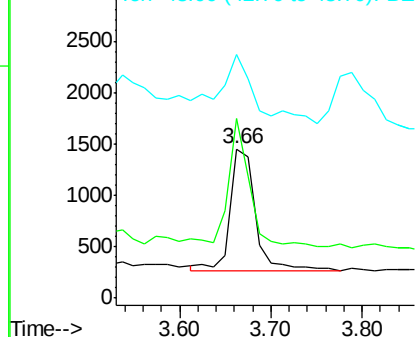
#2

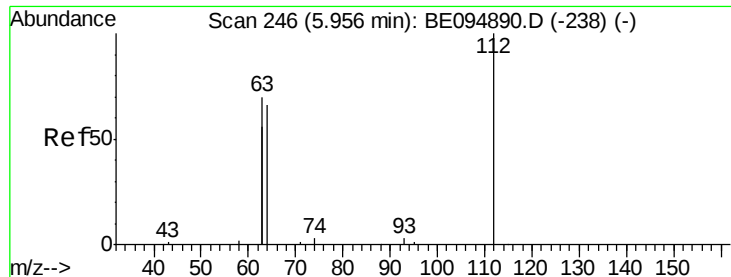
1,4-Dioxane
Concen: 0.285 ng
RT: 3.66 min Scan# 64
Delta R.T. -0.01 min
Lab File: BE094959.D
Acq: 8 Dec 2017 21:19

Tgt Ion: 88 Resp: 2314
Ion Ratio Lower Upper
88 100
58 85.6 63.2 94.8
43 42.4 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: 0.156 ng

RT: 5.95 min Scan# 246

Delta R.T. -0.00 min

Lab File: BE094959.D

Acq: 8 Dec 2017 21:19

Instrument :

BNA_E

ClientSampleId :

FT-PZ-456I-20171204

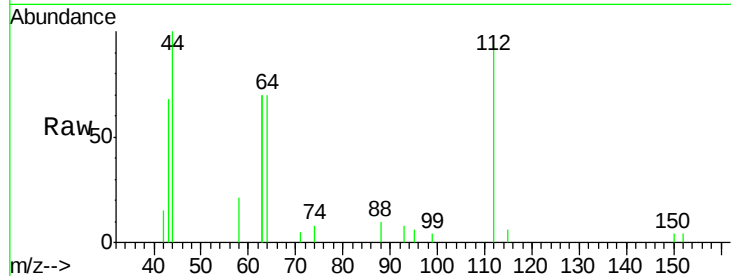
Tot Ion: 112 Resp: 1916

Ion Ratio Lower Upper

112 100

64 78.0 60.1 90.1

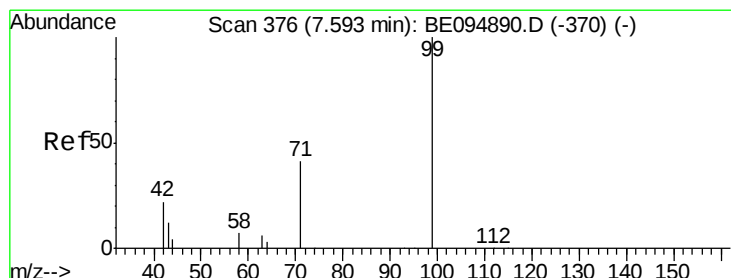
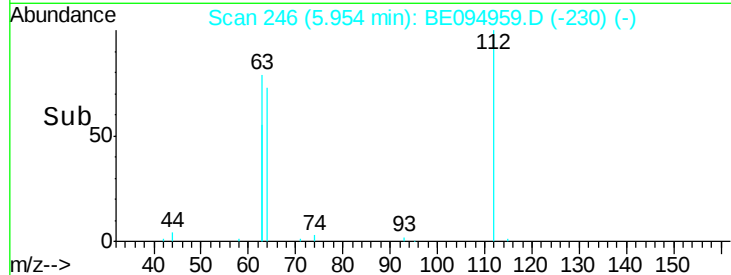
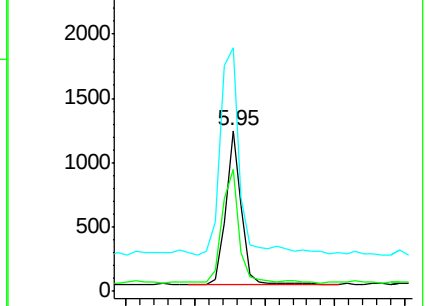
63 155.9 116.8 175.2



Abundance Ion 112.00 (111.70 to 112.70): BE094890.D (-238) (-)

Ion 64.00 (63.70 to 64.70): BE094890.D (-238) (-)

Ion 63.00 (62.70 to 63.70): BE094890.D (-238) (-)



#5

Phenol-d6

Concen: 0.117 ng

RT: 7.60 min Scan# 377

Delta R.T. 0.01 min

Lab File: BE094959.D

Acq: 8 Dec 2017 21:19

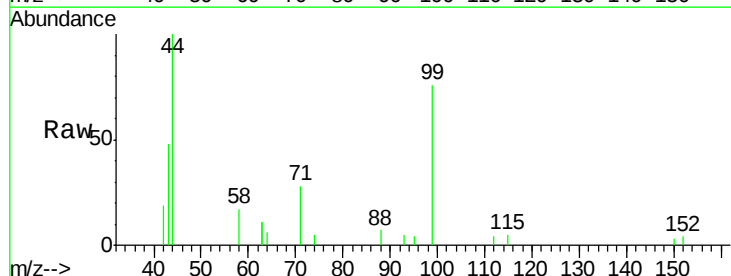
Tgt Ion: 99 Resp: 2129

Ion Ratio Lower Upper

99 100

42 31.0 20.2 30.2#

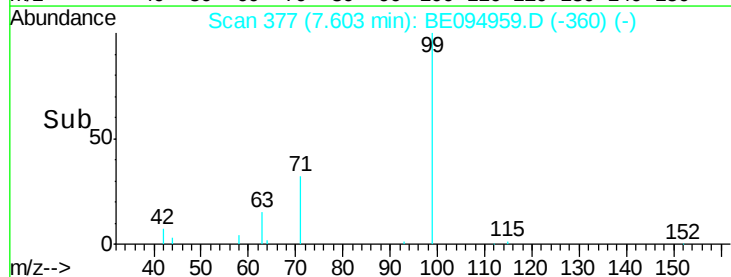
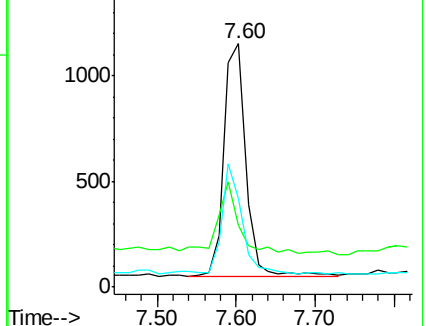
71 40.9 28.4 42.6

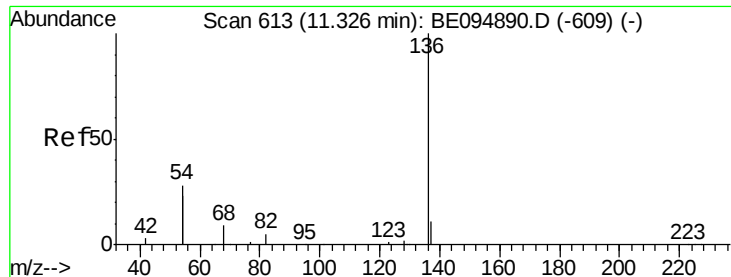


Abundance Ion 99.00 (98.70 to 99.70): BE094890.D (-370) (-)

Ion 42.00 (41.70 to 42.70): BE094890.D (-370) (-)

Ion 71.00 (70.70 to 71.70): BE094890.D (-370) (-)





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.33 min Scan# 613

Delta R.T. 0.00 min

Lab File: BE094959.D

Acq: 8 Dec 2017 21:19

Instrument :

BNA_E

ClientSampleId :

FT-PZ-456I-20171204

Tot Ion:136 Resp: 16677

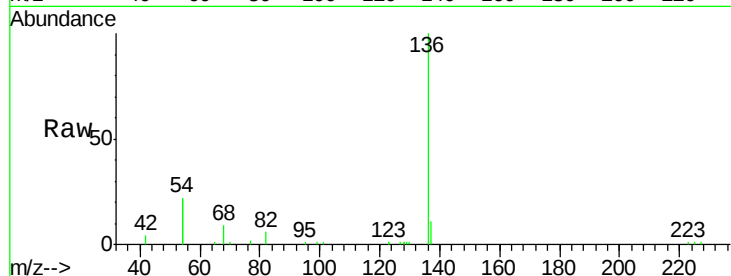
Ion Ratio Lower Upper

136 100

137 11.4 9.5 14.3

54 43.8 29.1 43.7#

68 9.2 6.2 9.2

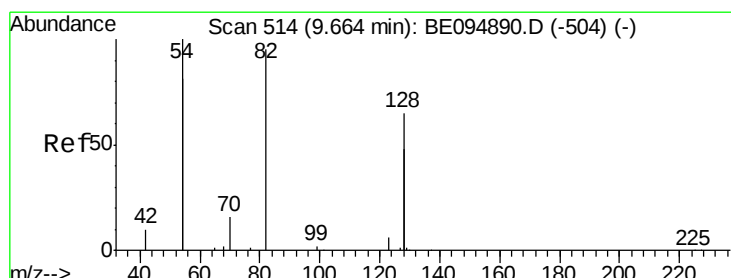
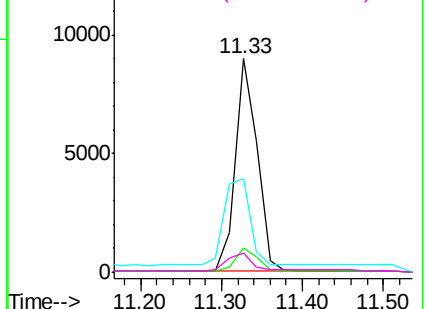
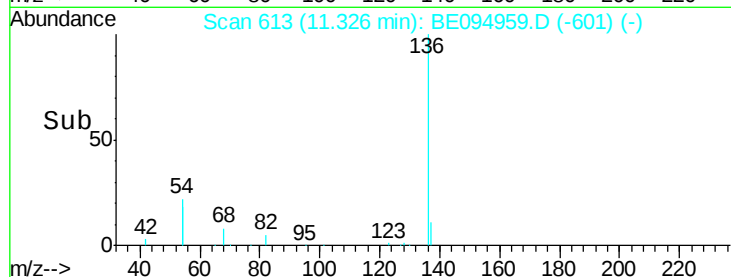


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.568 ng

RT: 9.66 min Scan# 514

Delta R.T. 0.00 min

Lab File: BE094959.D

Acq: 8 Dec 2017 21:19

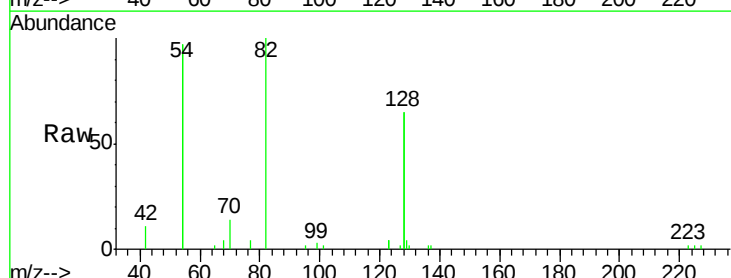
Tgt Ion: 82 Resp: 5609

Ion Ratio Lower Upper

82 100

128 129.9 150.0 225.0#

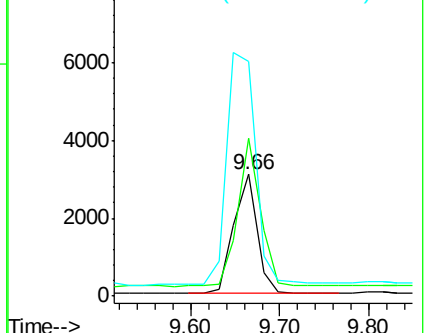
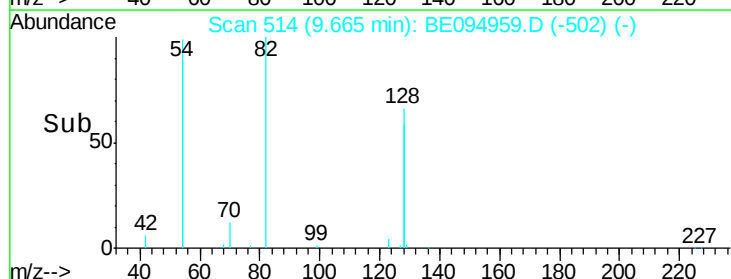
54 193.3 154.2 231.4

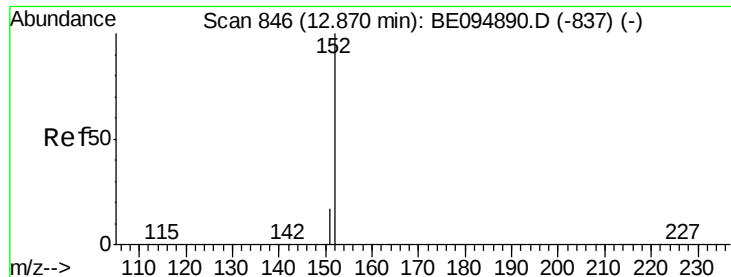


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

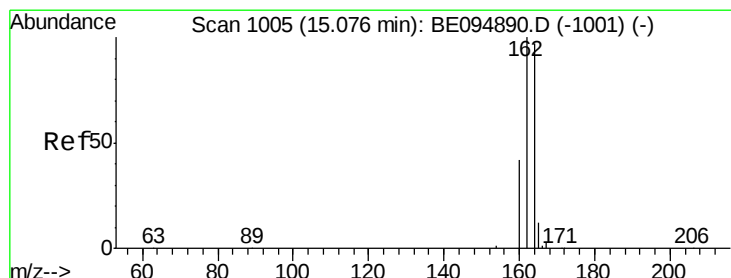
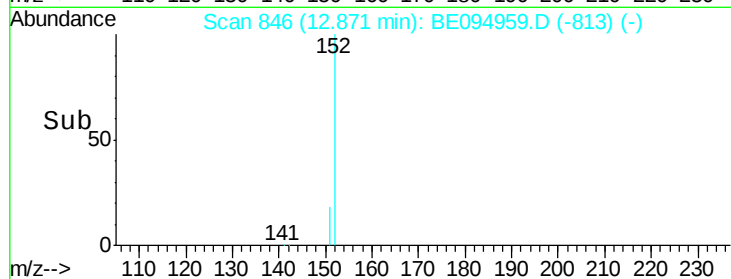
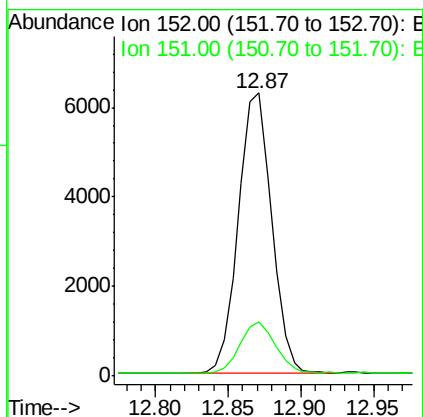
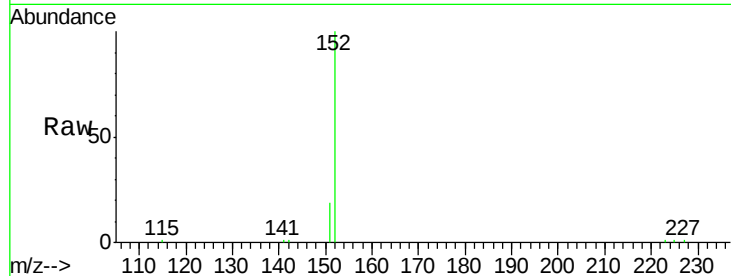




#11
 2-Methylnaphthalene-d10
 Concen: 0.376 ng
 RT: 12.87 min Scan# 846
 Delta R.T. 0.00 min
 Lab File: BE094959.D
 Acq: 8 Dec 2017 21:19

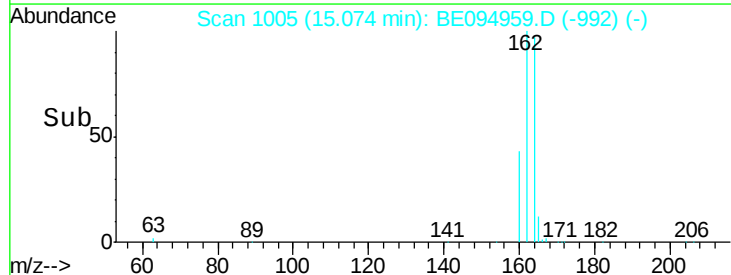
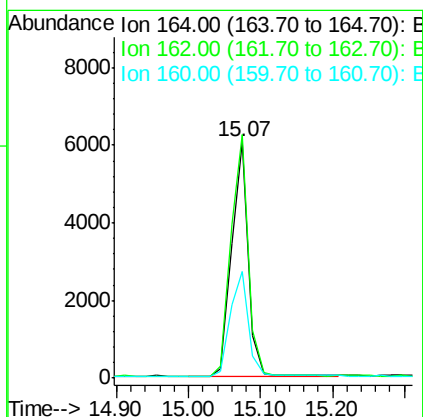
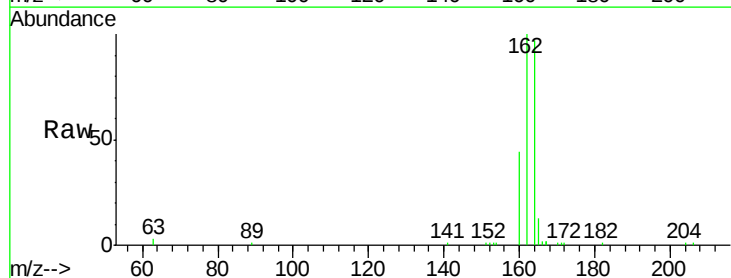
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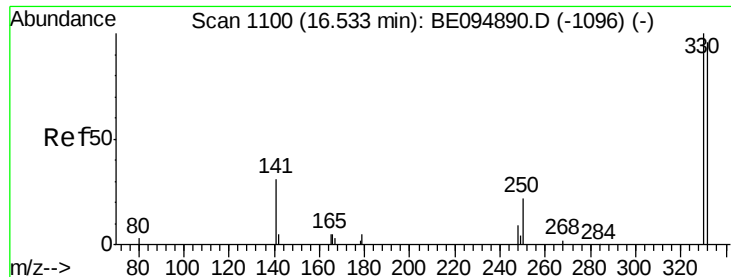
Tot Ion:152 Resp: 10006
 Ion Ratio Lower Upper
 152 100
 151 19.3 15.4 23.0



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 15.07 min Scan# 1005
 Delta R.T. -0.00 min
 Lab File: BE094959.D
 Acq: 8 Dec 2017 21:19

Tgt Ion:164 Resp: 9610
 Ion Ratio Lower Upper
 164 100
 162 102.9 83.1 124.7
 160 45.0 37.1 55.7





#14

2,4,6-Tribromophenol

Concen: 0.486 ng

RT: 16.53 min Scan# 1100

Delta R.T. -0.00 min

Lab File: BE094959.D

Acq: 8 Dec 2017 21:19

Instrument :

BNA_E

ClientSampleId :

FT-PZ-456I-20171204

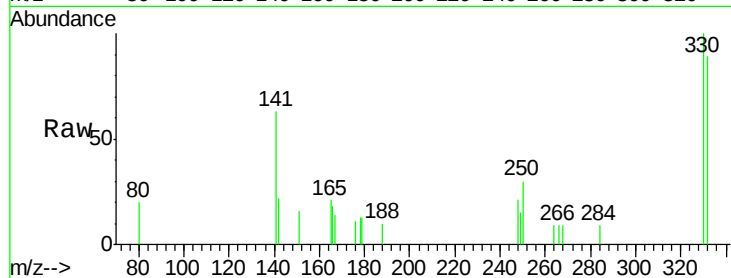
Tot Ion:330 Resp: 995

Ion Ratio Lower Upper

330 100

332 96.3 152.7 229.1#

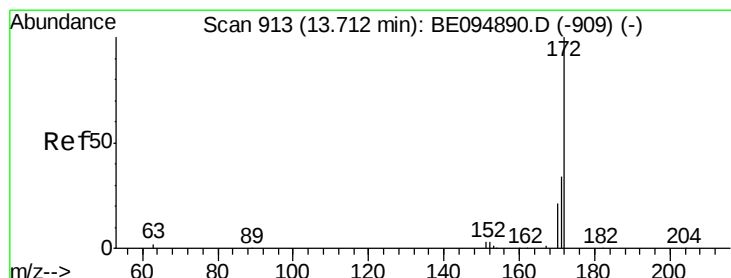
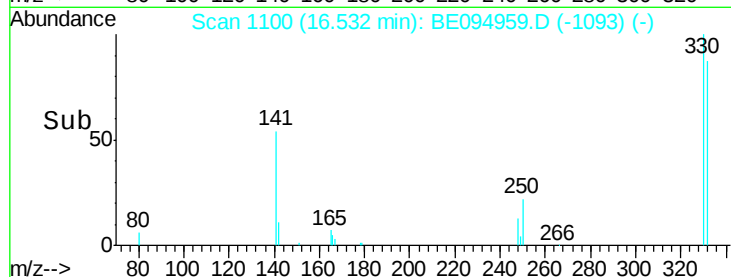
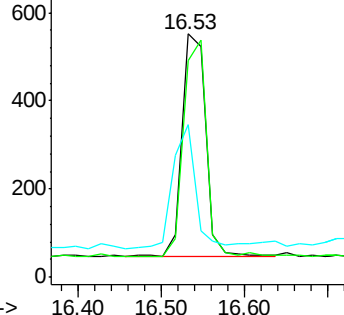
141 53.0 33.7 50.5#



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: 0.598 ng

RT: 13.71 min Scan# 913

Delta R.T. -0.00 min

Lab File: BE094959.D

Acq: 8 Dec 2017 21:19

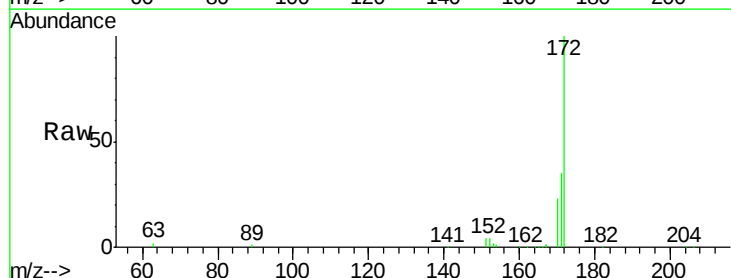
Tgt Ion:172 Resp: 24614

Ion Ratio Lower Upper

172 100

171 34.9 29.9 44.9

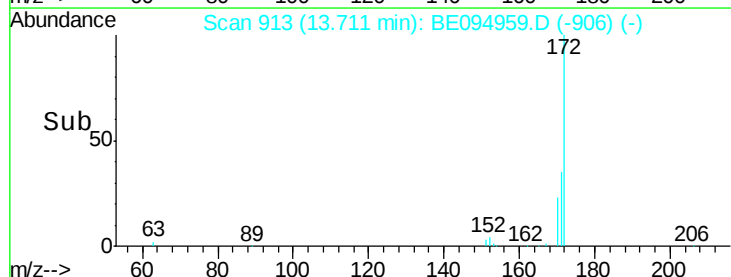
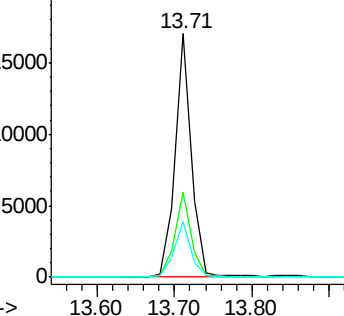
170 22.8 21.8 32.8

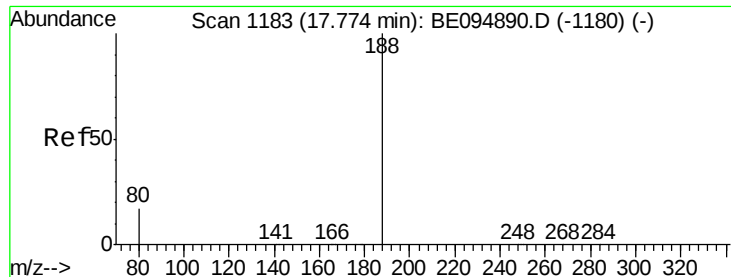


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.79 min Scan# 1184

Delta R.T. 0.01 min

Lab File: BE094959.D

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Instrument :

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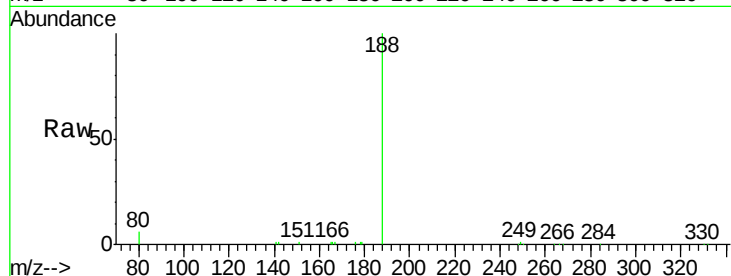
Tot Ion:188 Resp: 23426

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

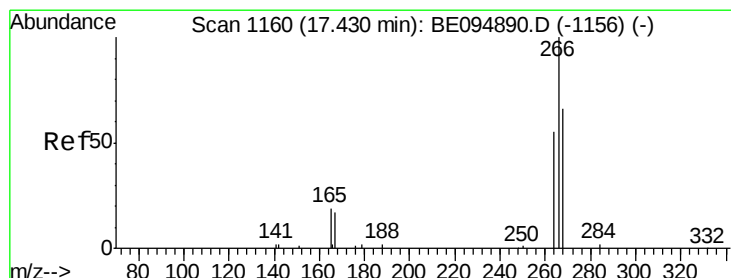
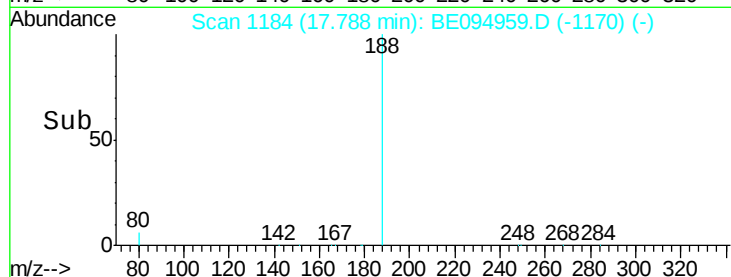
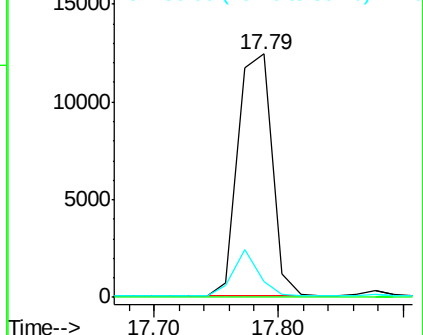
80 6.4 3.6 5.4#



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: 0.161 ng

RT: 17.43 min Scan# 1160

Delta R.T. -0.00 min

Lab File: BE094959.D

Acq: 8 Dec 2017 21:19

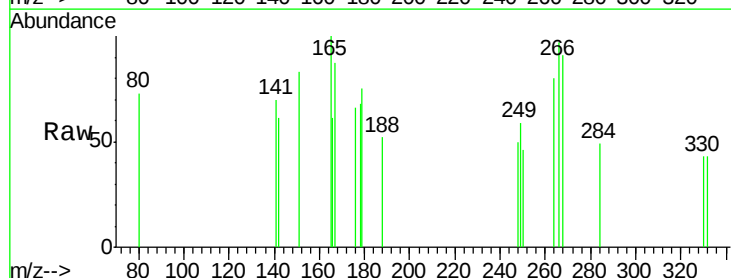
Tgt Ion:266 Resp: 117

Ion Ratio Lower Upper

266 100

264 82.1 72.5 108.7

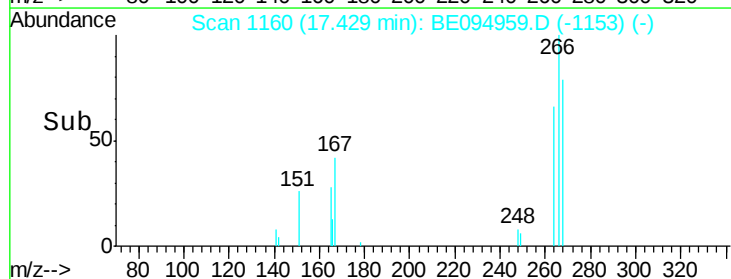
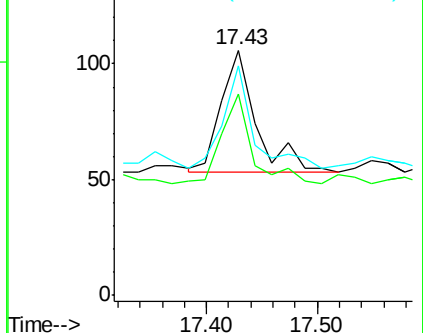
268 93.4 73.8 110.6

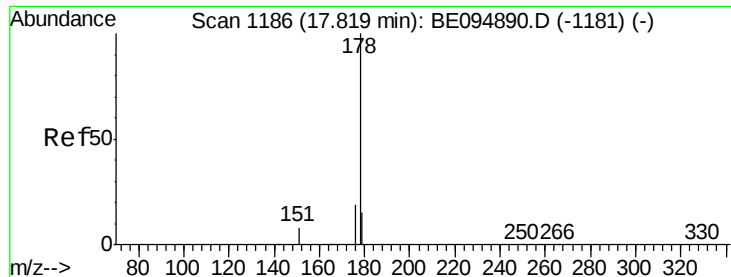


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.057 ng

RT: 17.82 min Scan# 1186

Delta R.T. -0.00 min

Lab File: BE094959.D

Acq: 8 Dec 2017 21:19

Instrument :

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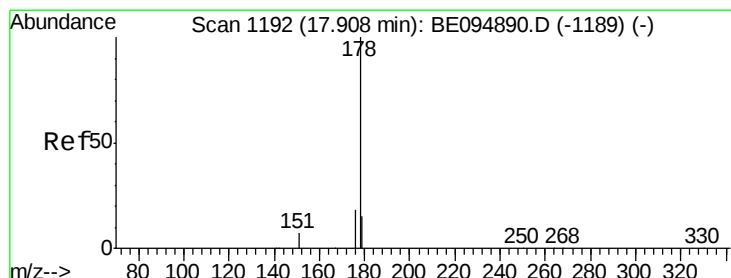
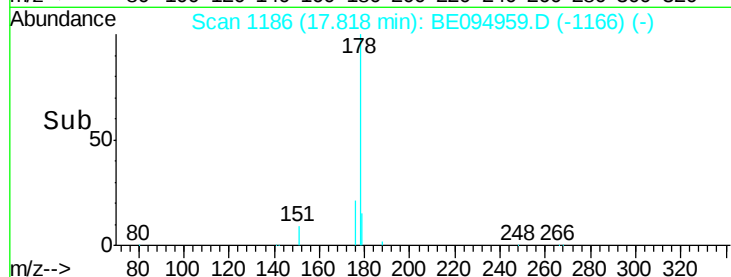
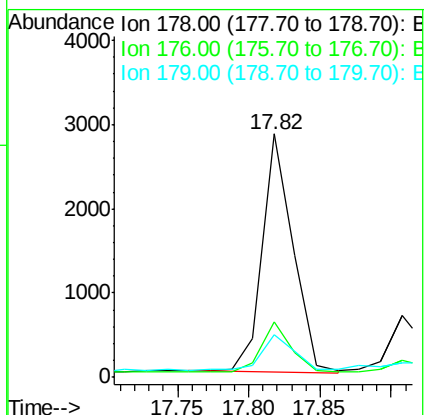
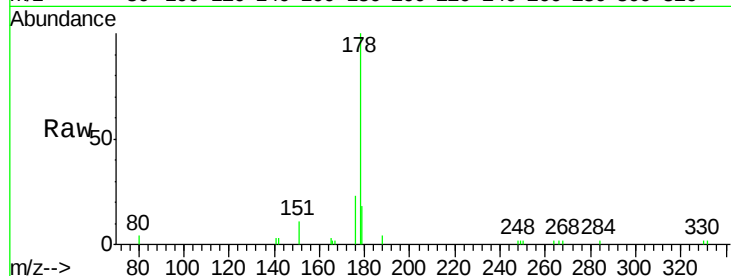
Tot Ion:178 Resp: 4284

Ion Ratio Lower Upper

178 100

176 22.0 15.1 22.7

179 15.5 11.8 17.6



#24

Anthracene

Concen: 0.025 ng

RT: 17.91 min Scan# 1192

Delta R.T. -0.00 min

Lab File: BE094959.D

Acq: 8 Dec 2017 21:19

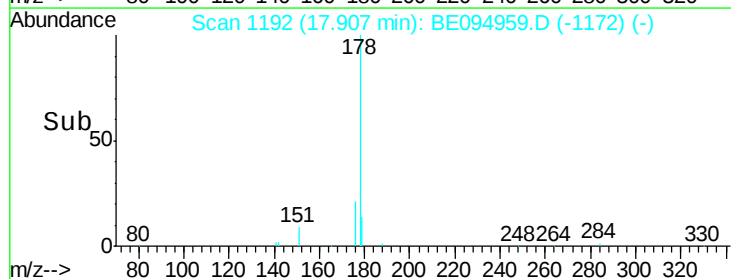
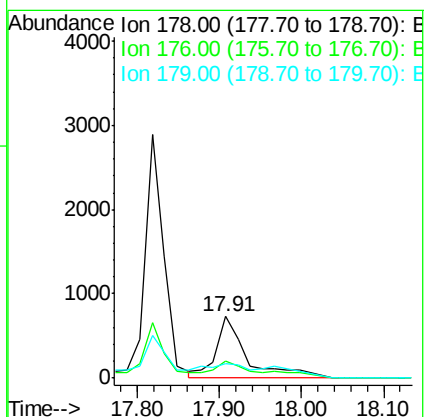
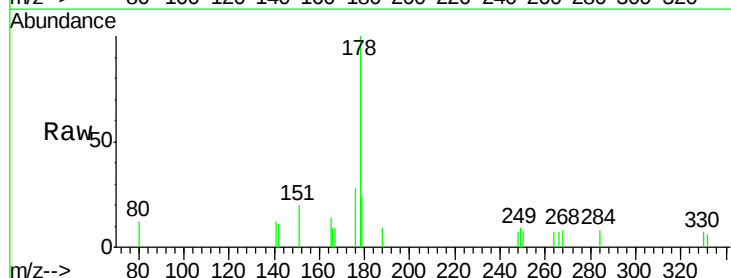
Tgt Ion:178 Resp: 1988

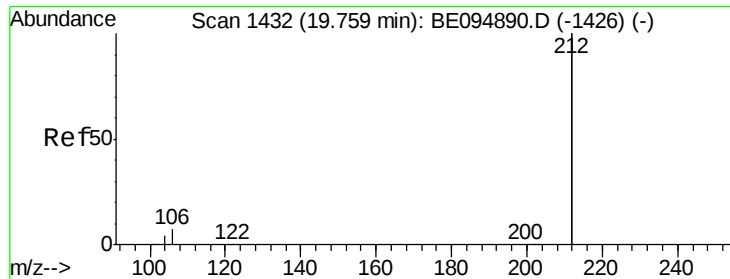
Ion Ratio Lower Upper

178 100

176 43.5 12.8 19.2#

179 10.5 13.0 19.6#

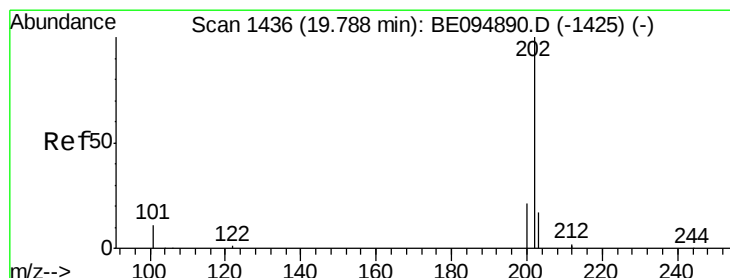
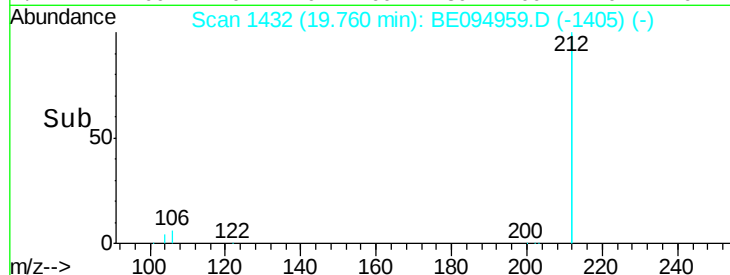
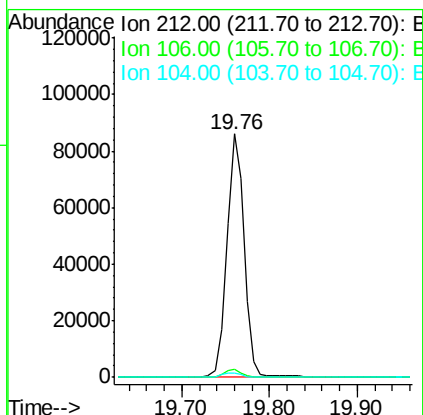
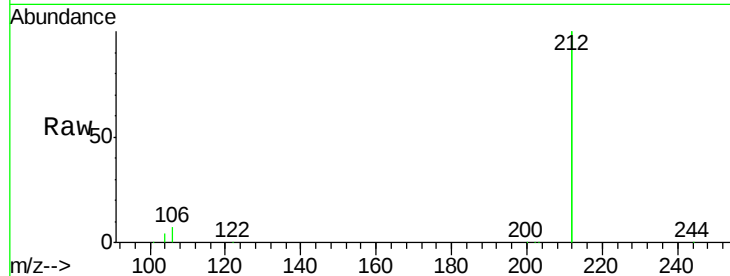




#25
 Fluoranthene-d10
 Concen: 0.366 ng
 RT: 19.76 min Scan# 1432
 Delta R.T. 0.00 min
 Lab File: BE094959.D
 Acq: 8 Dec 2017 21:19

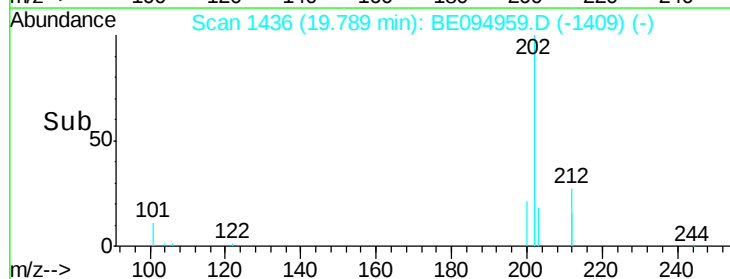
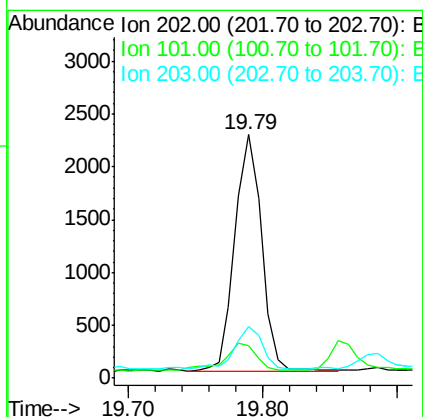
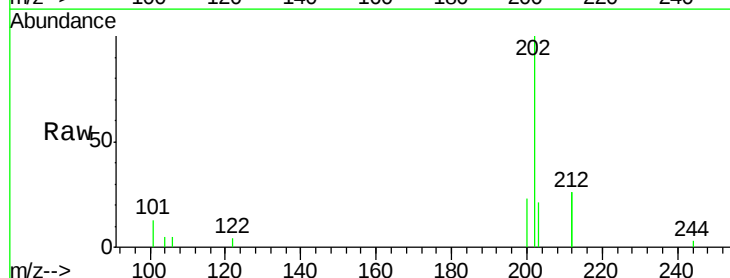
Instrument :
 BNA_E
 ClientSampleId :
 FT-PZ-456I-20171204

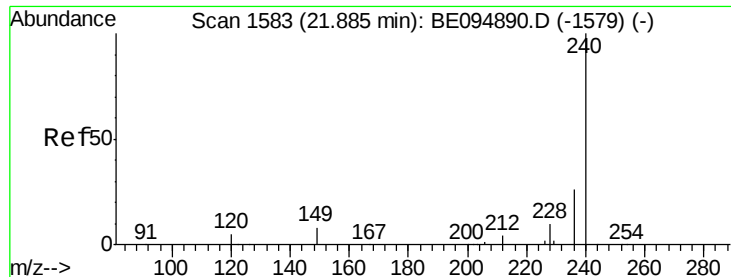
Tot Ion:212 Resp: 117226
 Ion Ratio Lower Upper
 212 100
 106 3.4 2.8 4.2
 104 2.0 1.6 2.4



#26
 Fluoranthene
 Concen: 0.032 ng
 RT: 19.79 min Scan# 1436
 Delta R.T. 0.00 min
 Lab File: BE094959.D
 Acq: 8 Dec 2017 21:19

Tgt Ion:202 Resp: 3117
 Ion Ratio Lower Upper
 202 100
 101 14.8 9.8 14.8#
 203 18.7 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: BE094959.D

Acq: 8 Dec 2017 21:19

Instrument :

BNA_E

ClientSampleId :

FT-PZ-456I-20171204

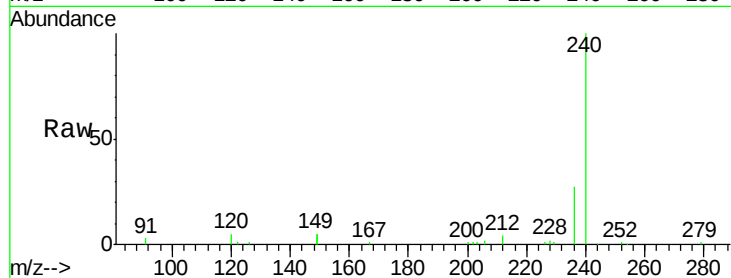
Tot Ion:240 Resp: 24316

Ion Ratio Lower Upper

240 100

120 5.4 5.5 8.3#

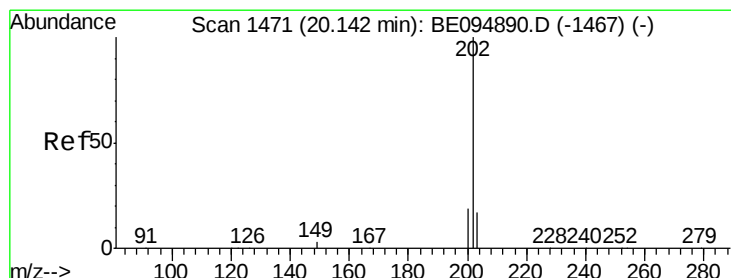
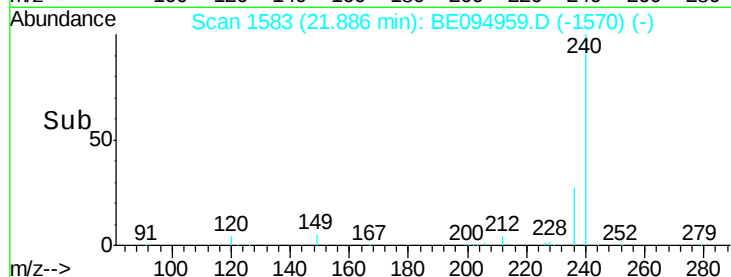
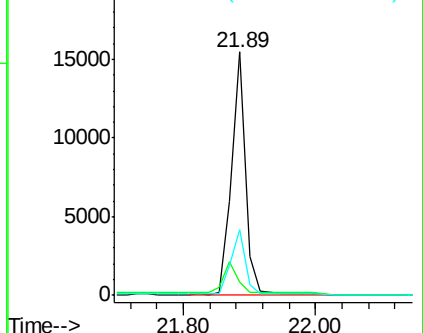
236 26.9 20.7 31.1



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: 0.027 ng

RT: 20.14 min Scan# 1471

Delta R.T. 0.00 min

Lab File: BE094959.D

Acq: 8 Dec 2017 21:19

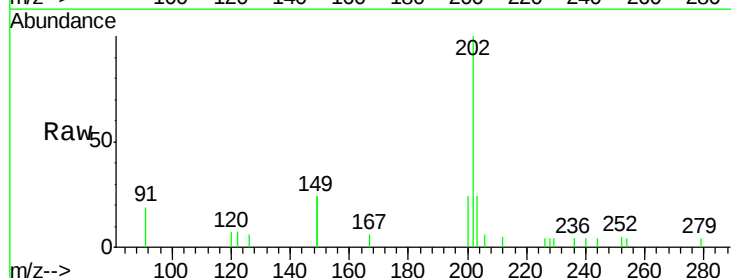
Tgt Ion:202 Resp: 2232

Ion Ratio Lower Upper

202 100

200 22.4 16.6 25.0

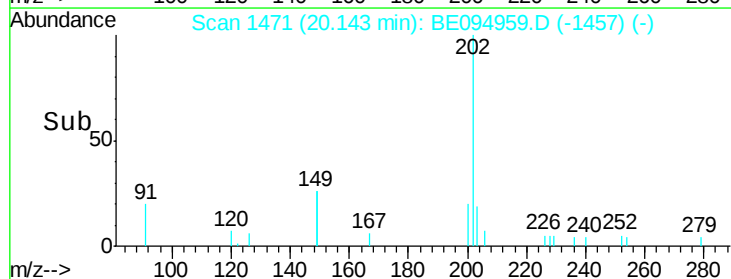
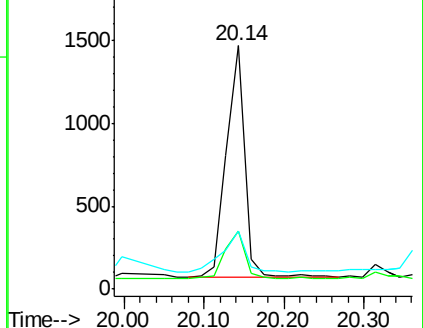
203 22.4 13.8 20.8#

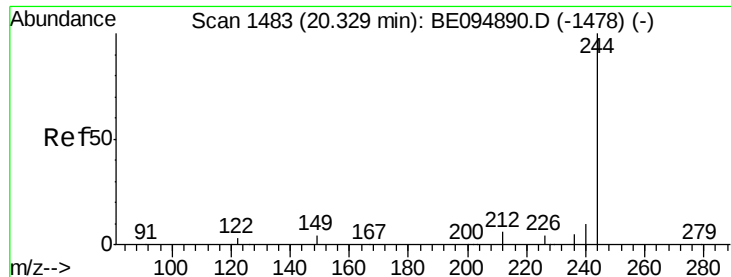


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.606 ng

RT: 20.33 min Scan# 1483

Delta R.T. 0.00 min

Lab File: BE094959.D

Acq: 8 Dec 2017 21:19

Instrument :

BNA_E

ClientSampleId :

FT-PZ-456I-20171204

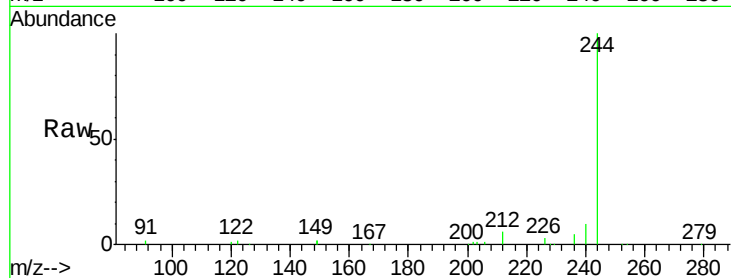
Tot Ion:244 Resp: 27220

Ion Ratio Lower Upper

244 100

212 5.5 25.4 38.0#

122 2.4 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

25000

20000

15000

10000

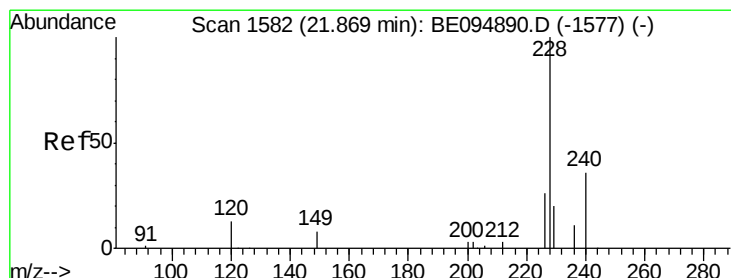
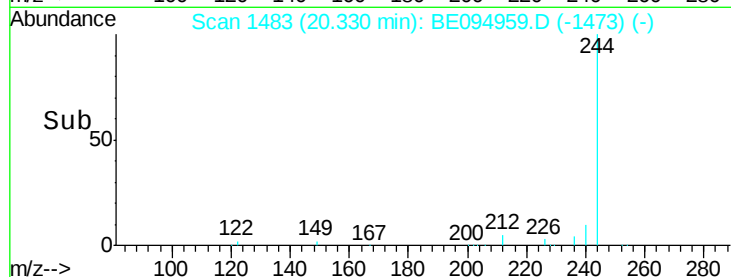
5000

0

20.33

20.20 20.30 20.40

Time-->



#30

Benzo(a)anthracene

Concen: 0.045 ng

RT: 21.87 min Scan# 1582

Delta R.T. 0.00 min

Lab File: BE094959.D

Acq: 8 Dec 2017 21:19

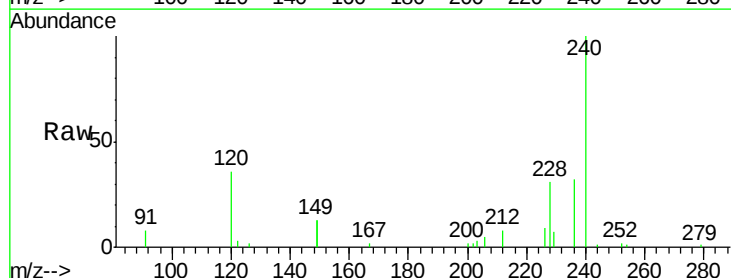
Tgt Ion:228 Resp: 3380

Ion Ratio Lower Upper

228 100

226 28.0 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

3000

2500

2000

1500

1000

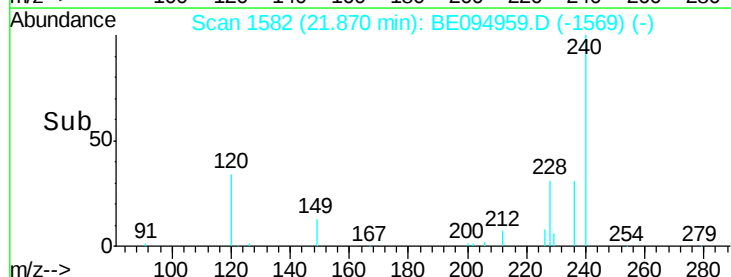
500

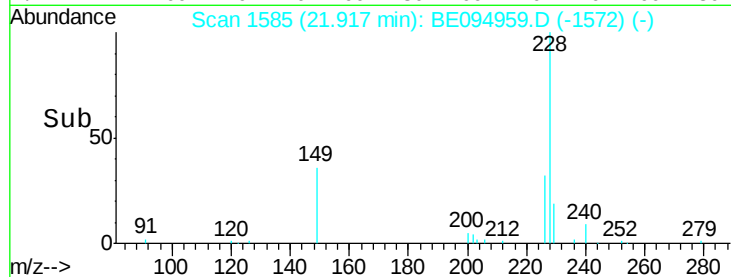
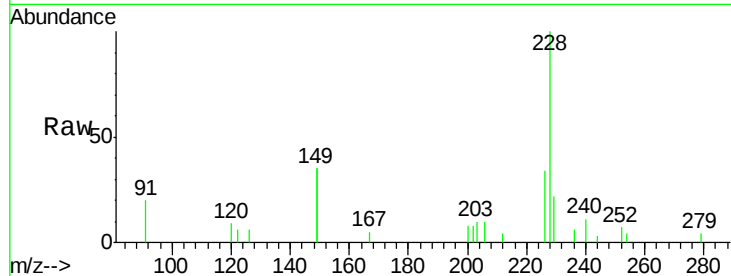
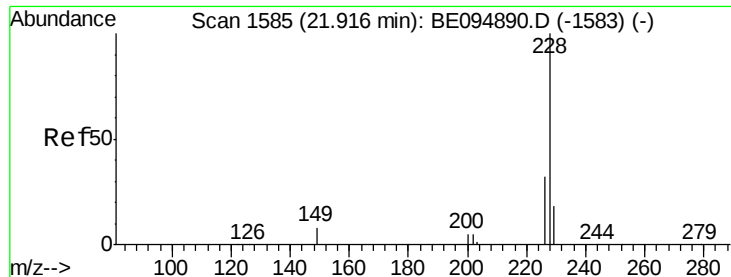
0

21.87

21.75 21.80 21.85 21.90

Time-->





#31

Chrysene

Concen: 0.051 ng

RT: 21.92 min Scan# 1585

Delta R.T. 0.00 min

Lab File: BE094959.D

Acq: 8 Dec 2017 21:19

Instrument :

BNA_E

ClientSampleId :

FT-PZ-456I-20171204

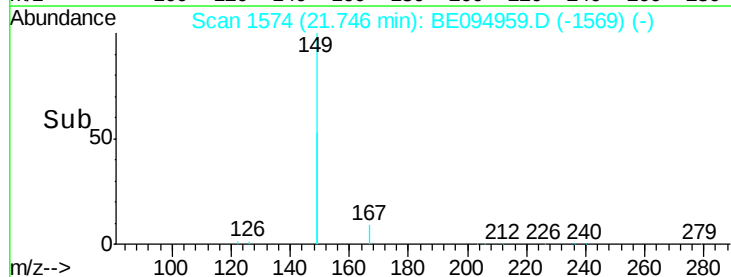
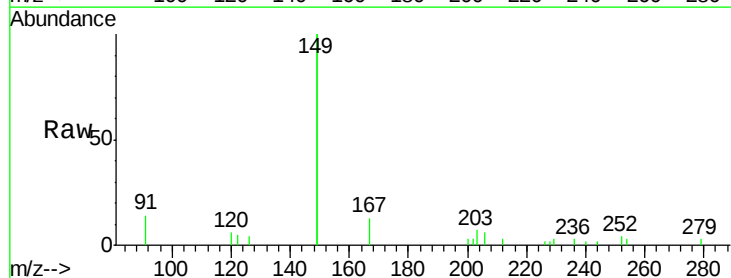
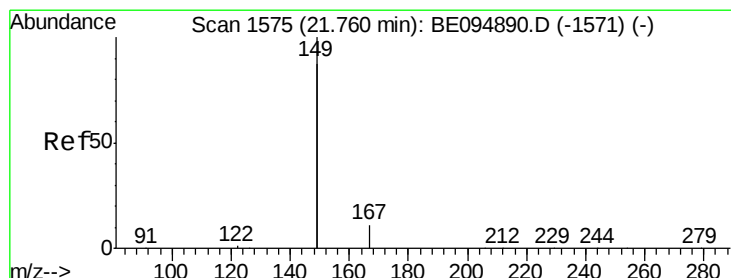
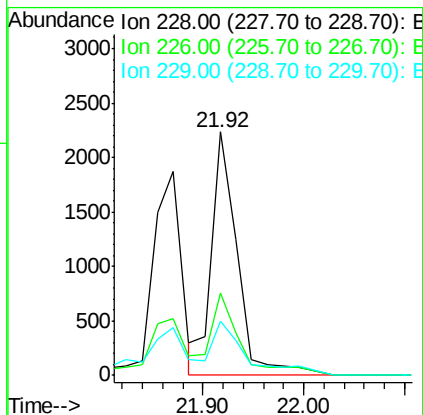
Tot Ion:228 Resp: 4196

Ion Ratio Lower Upper

228 100

226 33.6 40.0 60.0#

229 22.4 40.0 60.0#



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.056 ng

RT: 21.75 min Scan# 1574

Delta R.T. -0.01 min

Lab File: BE094959.D

Acq: 8 Dec 2017 21:19

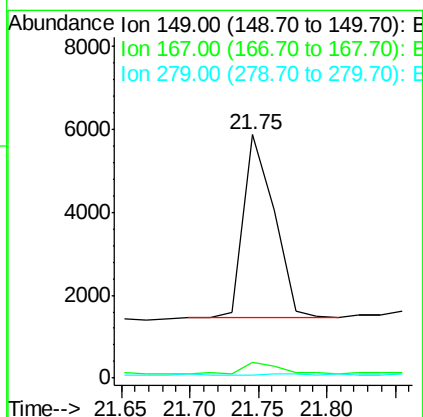
Tgt Ion:149 Resp: 6887

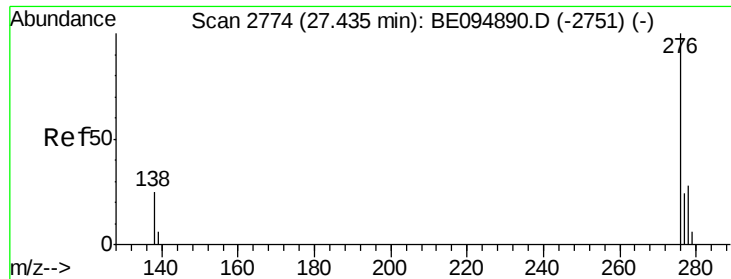
Ion Ratio Lower Upper

149 100

167 6.7 5.4 8.0

279 1.2 0.7 1.1#





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.045 ng

RT: 27.43 min Scan# 2774

Delta R.T. -0.00 min

Lab File: BE094959.D

Acq: 8 Dec 2017 21:19

Instrument :

BNA_E

ClientSampleId :

FT-PZ-456I-20171204

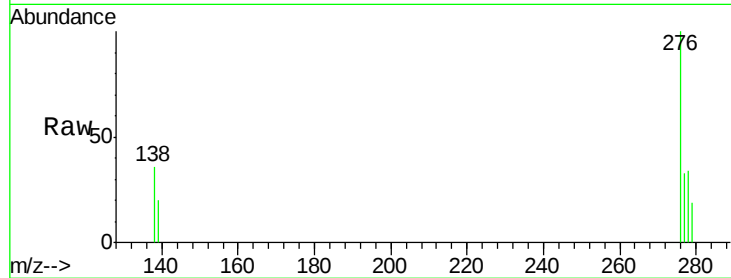
Tot Ion:276 Resp: 3007

Ion Ratio Lower Upper

276 100

138 13.0 22.5 33.7#

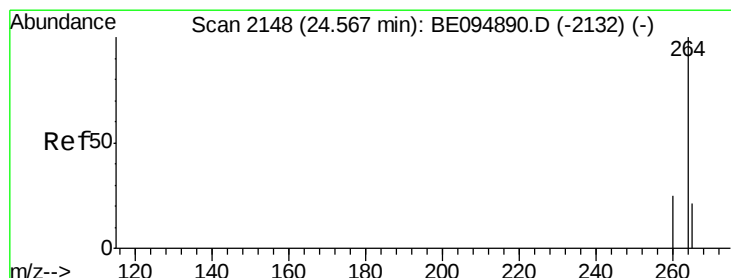
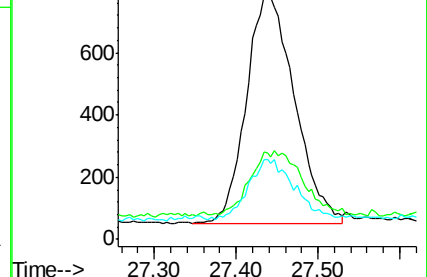
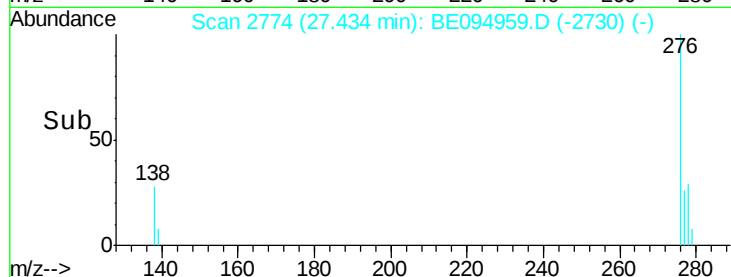
277 24.7 19.9 29.9



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: BE094959.D

Acq: 8 Dec 2017 21:19

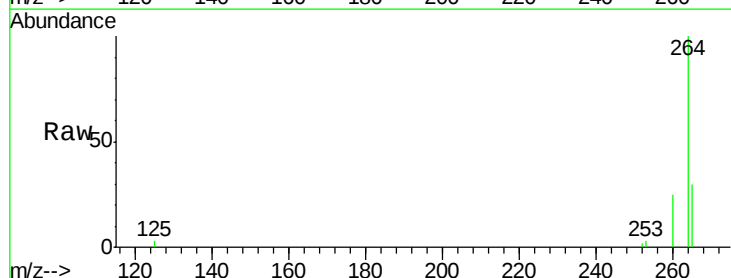
Tgt Ion:264 Resp: 19770

Ion Ratio Lower Upper

264 100

260 25.0 20.5 30.7

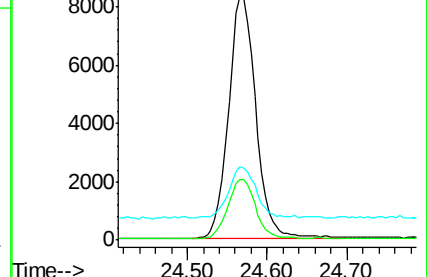
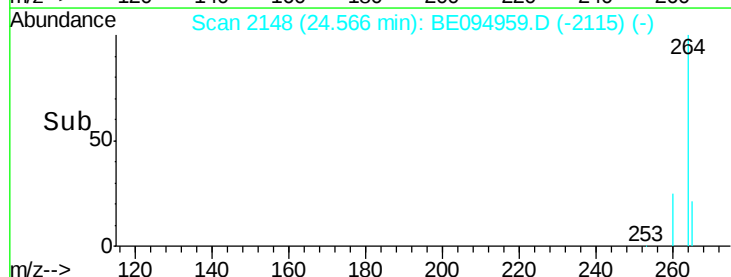
265 30.0 22.8 34.2

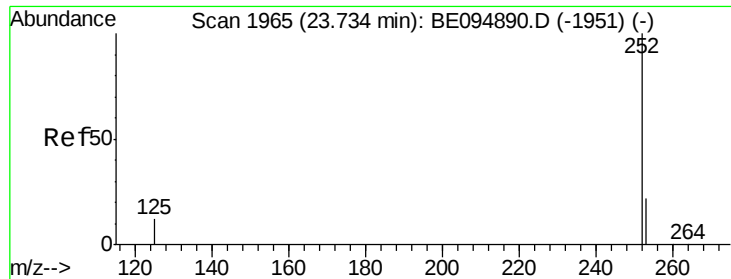


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

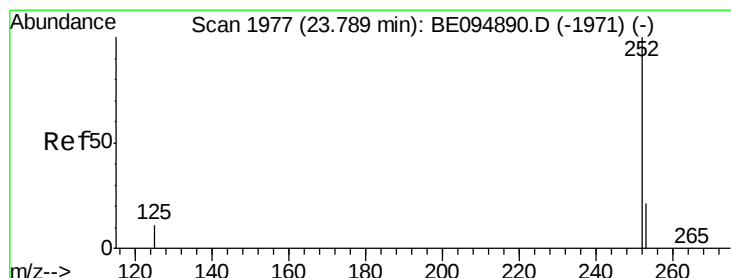
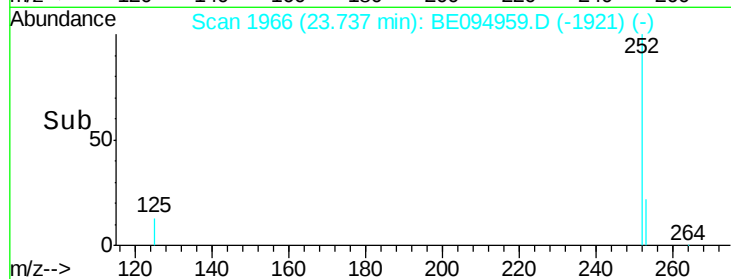
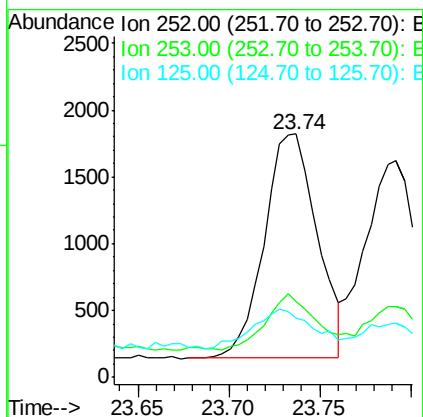
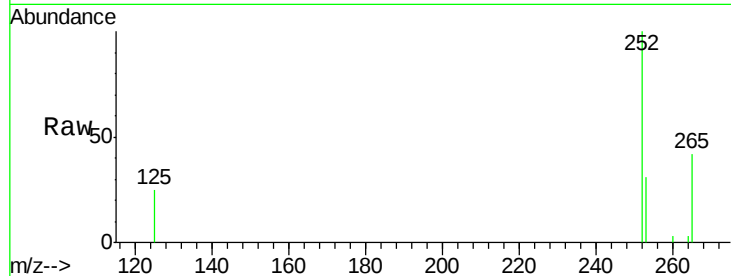




#35
Benzo(b)fluoranthene
Concen: 0.047 ng
RT: 23.74 min Scan# 1966
Delta R.T. 0.00 min
Lab File: BE094959.D
Acq: 8 Dec 2017 21:19

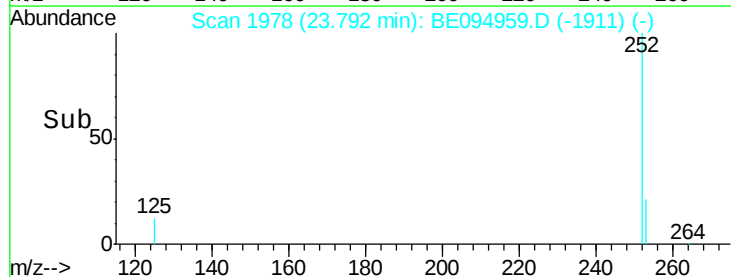
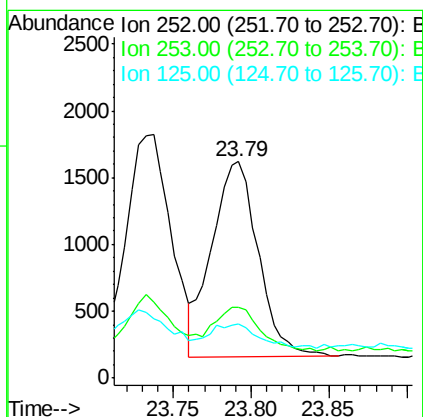
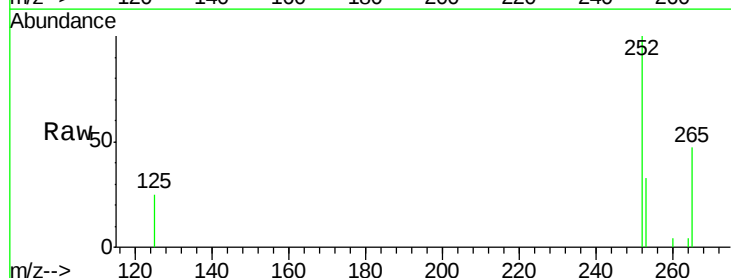
Instrument :
BNA_E
ClientSampleId :
FT-PZ-456I-20171204

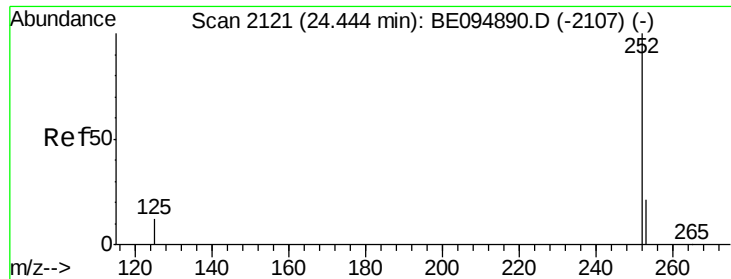
Tot Ion:252 Resp: 3387
Ion Ratio Lower Upper
252 100
253 31.4 48.0 72.0#
125 24.6 56.0 84.0#



#36
Benzo(k)fluoranthene
Concen: 0.041 ng
RT: 23.79 min Scan# 1978
Delta R.T. 0.00 min
Lab File: BE094959.D
Acq: 8 Dec 2017 21:19

Tgt Ion:252 Resp: 3021
Ion Ratio Lower Upper
252 100
253 32.7 48.0 72.0#
125 25.3 56.0 84.0#





#37

Benzo(a)pyrene

Concen: 0.045 ng

RT: 24.44 min Scan# 2121

Delta R.T. -0.00 min

Lab File: BE094959.D

Acq: 8 Dec 2017 21:19

Instrument :

BNA_E

ClientSampleId :

FT-PZ-456I-20171204

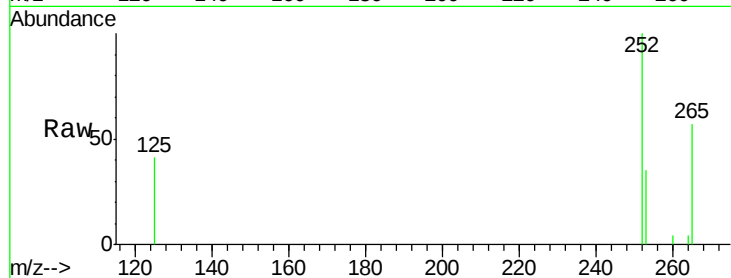
Tot Ion:252 Resp: 2829

Ion Ratio Lower Upper

252 100

253 34.9 52.0 78.0#

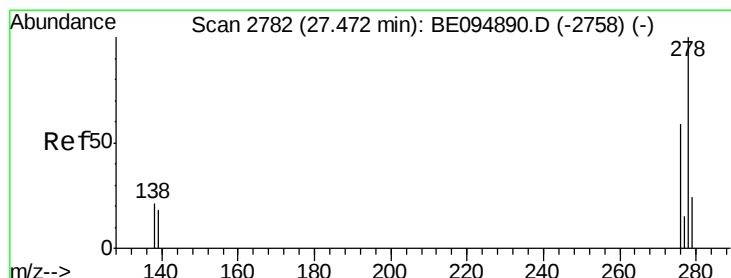
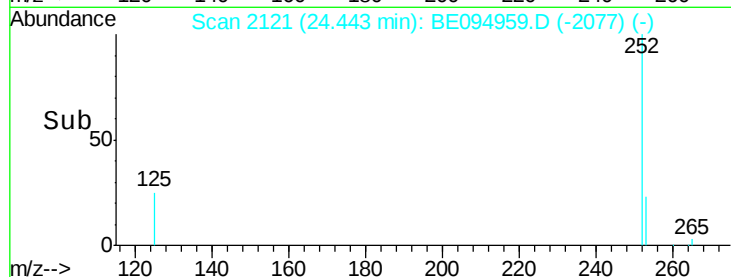
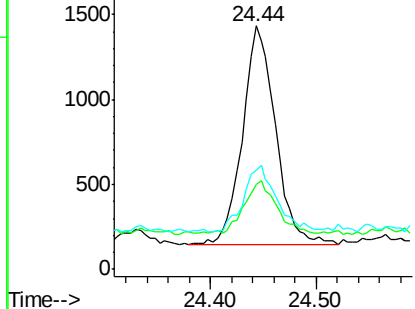
125 40.7 68.0 102.0#



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: 0.041 ng

RT: 27.47 min Scan# 2782

Delta R.T. -0.00 min

Lab File: BE094959.D

Acq: 8 Dec 2017 21:19

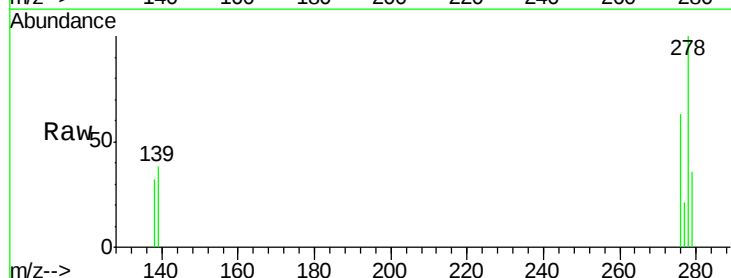
Tgt Ion:278 Resp: 2402

Ion Ratio Lower Upper

278 100

139 37.6 56.0 84.0#

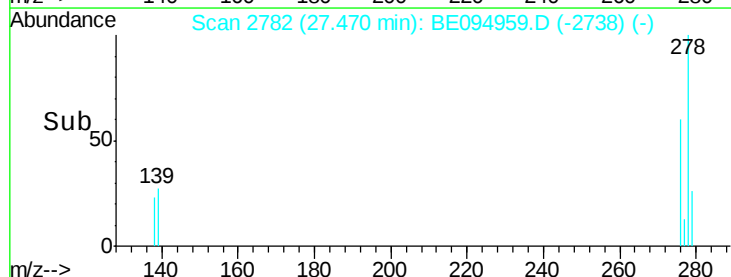
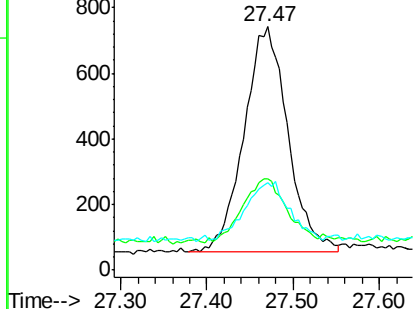
279 35.7 52.0 78.0#

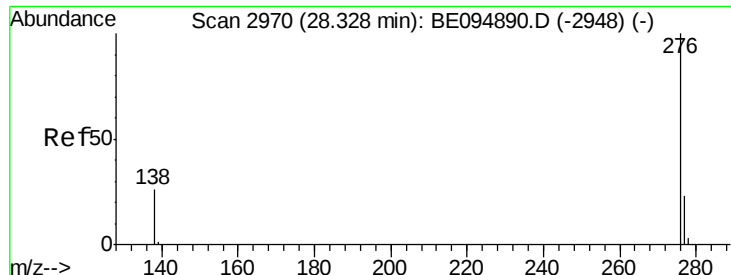


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.045 ng

RT: 28.33 min Scan# 2970

Delta R.T. -0.00 min

Lab File: BE094959.D

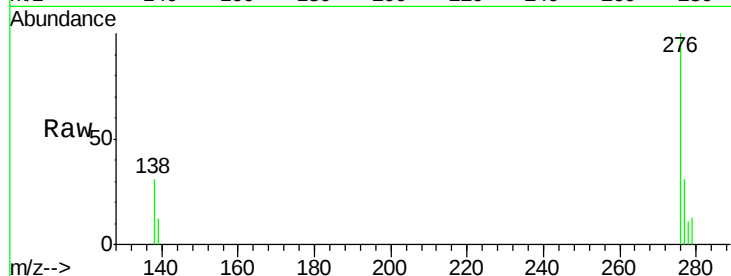
Acq: 8 Dec 2017 21:19

Instrument :

BNA_E

ClientSampleId :

FT-PZ-456I-20171204



Tot Ion: 276 Resp: 2603

Ion Ratio Lower Upper

276 100

277 31.0 52.0 78.0#

138 30.7 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

