

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062816\
 Data File : BF088491.D
 Acq On : 28 Jun 2016 21:05
 Operator : UM/SJ
 Sample : H3663-11DL 50X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-6DL

Quant Time: Jun 29 01:29:19 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 28 05:25:55 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.51	152	92953	20.00	ng	-0.03
21) Naphthalene-d8	7.80	136	387675	20.00	ng	-0.03
38) Acenaphthene-d10	9.55	164	175361	20.00	ng	-0.03
63) Phenanthrene-d10	11.03	188	290327	20.00	ng	-0.03
75) Chrysene-d12	13.66	240	175976	20.00	ng	-0.03
86) Perylene-d12	15.02	264	158807	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.20	112	4585	0.84	ng	0.07
7) Phenol-d6	6.24	99	11535	1.75	ng	0.01
23) Nitrobenzene-d5	7.15	82	3427	0.52	ng	0.02
41) 2,4,6-Tribromophenol	10.35	330	2247	1.21	ng	-0.02
44) 2-Fluorobiphenyl	8.89	172	19577	-4.05	ng	-0.03
78) Terphenyl-d14	12.62	244	14702	1.90	ng	-0.02

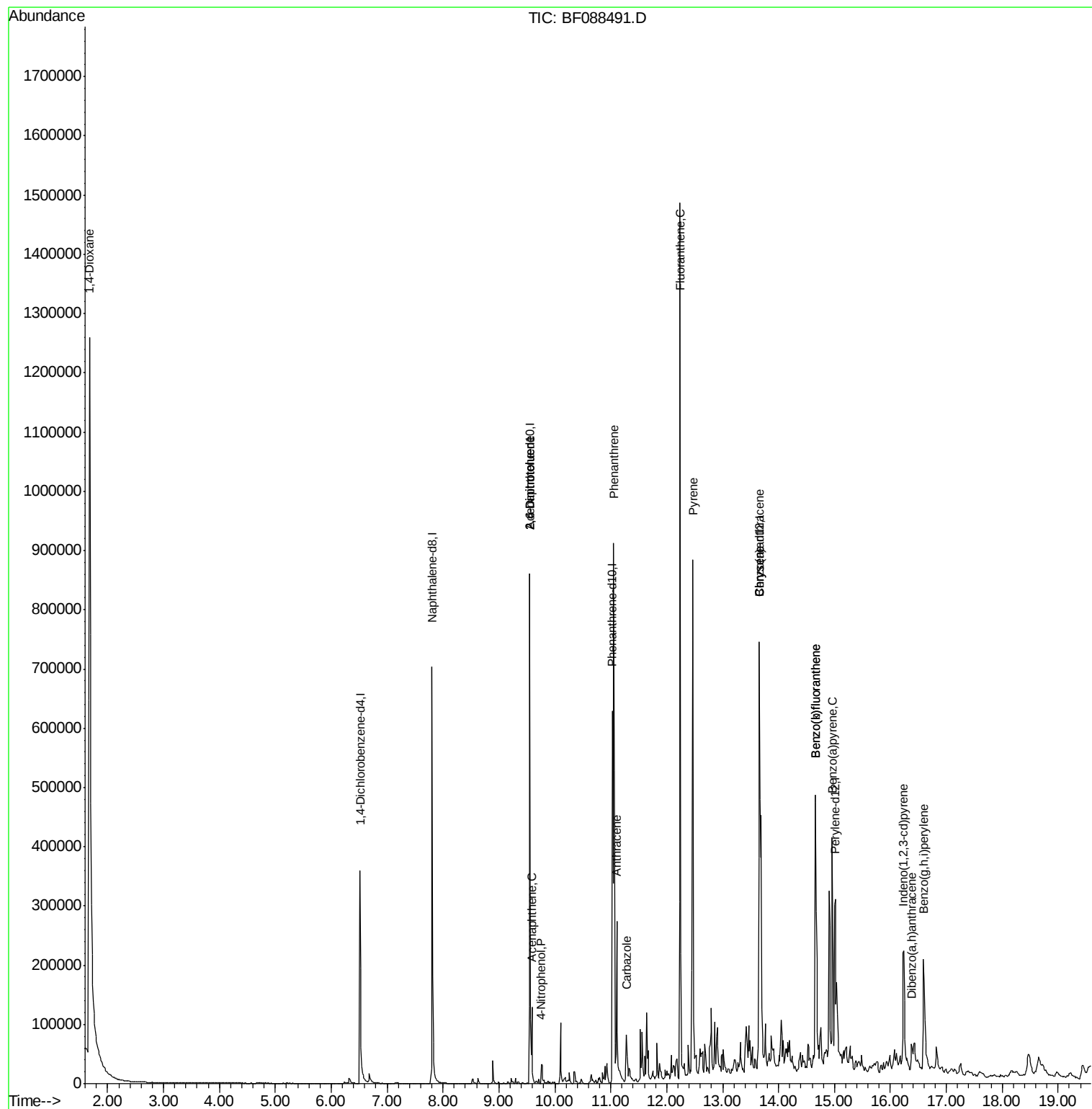
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.68	88	84851	32.12	ng	# 98
45) 1,1'-Biphenyl	8.99	154	2773	Below	Cal	90
50) 2,6-Dinitrotoluene	9.55	165	22173	7.62	ng	# 38
51) Acenaphthene	9.59	154	33474	2.97	ng	99
55) 4-Nitrophenol	9.76	139	10403	3.99	ng	# 5
56) 2,4-Dinitrotoluene	9.55	165	22173	5.93	ng	# 37
57) Fluorene	10.10	166	37589	Below	Cal	99
70) Phenanthrene	11.05	178	442635	29.05	ng	98
71) Anthracene	11.11	178	145035	9.44	ng	97
72) Carbazole	11.28	167	53741	3.74	ng	99
74) Fluoranthene	12.24	202	619037	38.50	ng	99
77) Pyrene	12.47	202	504565	38.64	ng	99
80) Benzo(a)anthracene	13.66	228	231132	23.05	ng	99
82) Chrysene	13.66	228	231132	24.50	ng	95
85) Indeno(1,2,3-cd)pyrene	16.24	276	154409	17.62	ng	# 100
87) Benzo(b)fluoranthene	14.66	252	376079	33.98	ng	# 96
88) Benzo(k)fluoranthene	14.66	252	376079	45.04	ng	98
89) Benzo(a)pyrene	14.96	252	192088	21.45	ng	99
90) Dibenzo(a,h)anthracene	16.38	278	25733	3.09	ng	93
91) Benzo(g,h,i)perylene	16.59	276	152667	17.84	ng	99

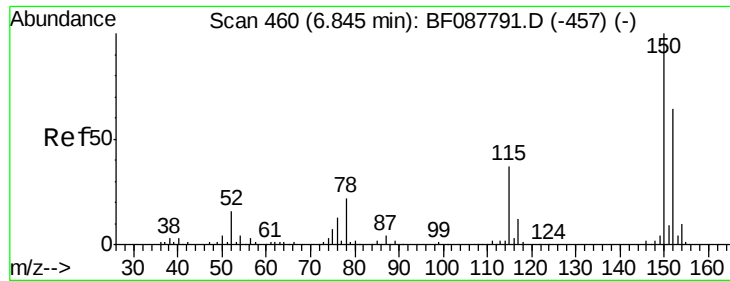
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.51 min Scan# 431

Delta R.T. -0.03 min

Lab File: BF088491.D

Acq: 28 Jun 2016 21:05

Instrument :

BNA_F

ClientSampleId :

TP-6DL

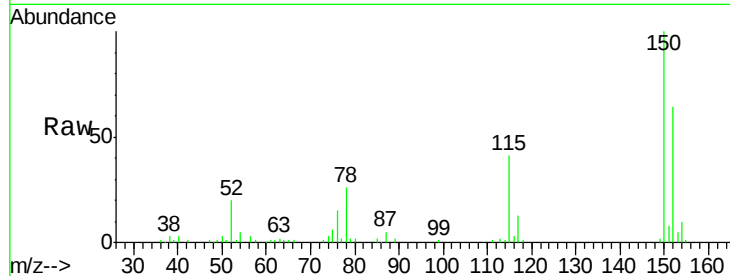
Tgt Ion:152 Resp: 92953

Ion Ratio Lower Upper

152 100

150 156.6 123.8 185.6

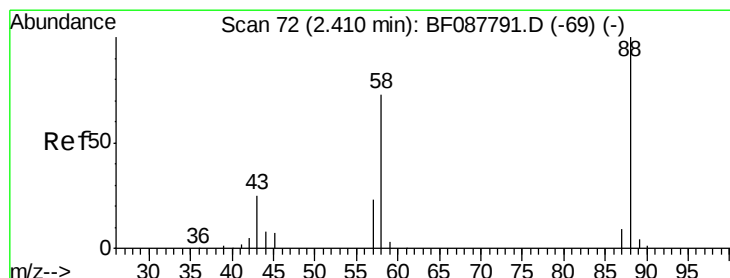
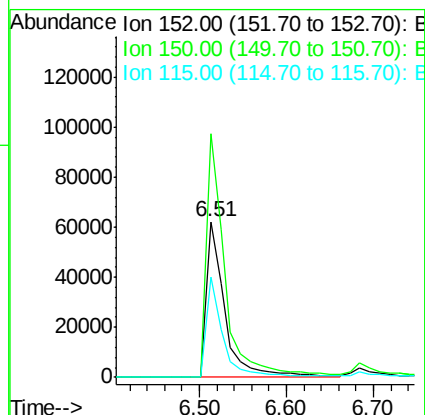
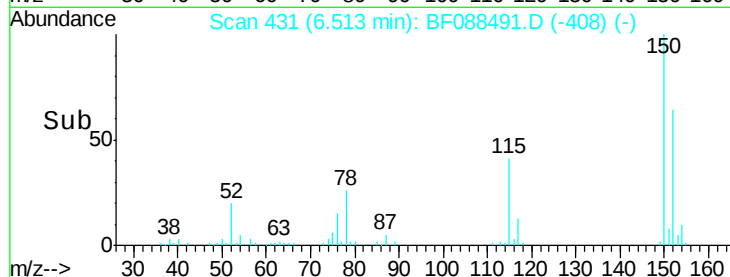
115 64.8 39.6 59.4#



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: 32.12 ng

RT: 1.68 min Scan# 8

Delta R.T. -0.26 min

Lab File: BF088491.D

Acq: 28 Jun 2016 21:05

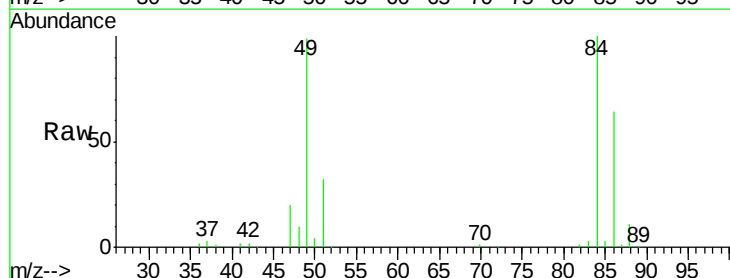
Tgt Ion: 88 Resp: 84851

Ion Ratio Lower Upper

88 100

58 0.0 0.0 0.0

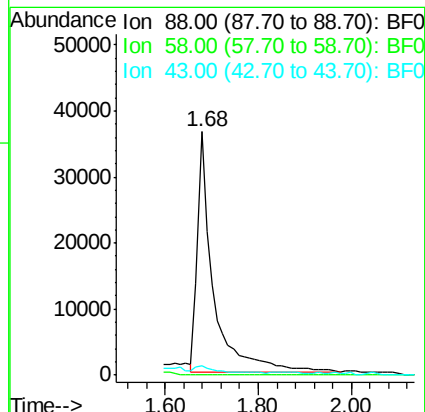
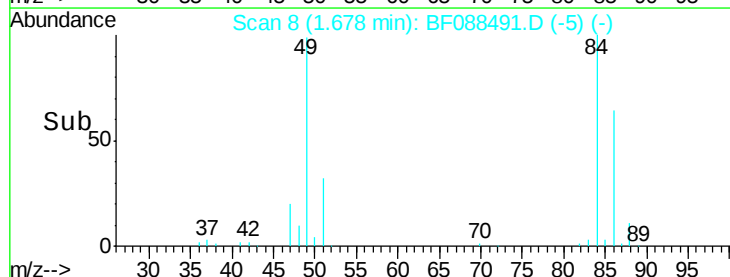
43 3.8 3.4 5.2

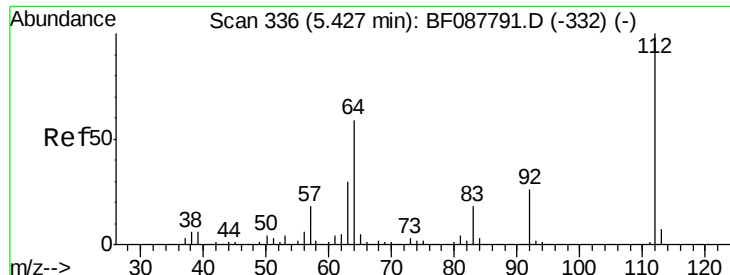


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 0.84 ng

RT: 5.20 min Scan# 316

Delta R.T. 0.07 min

Lab File: BF088491.D

Acq: 28 Jun 2016 21:05

Instrument :

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TP-6DL

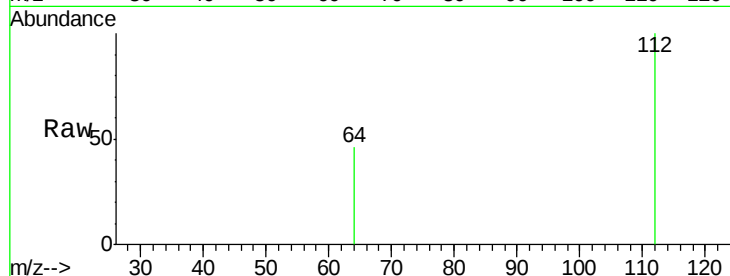
Tgt Ion: 112 Resp: 4585

Ion Ratio Lower Upper

112 100

64 45.9 42.2 63.2

63 0.0 21.8 32.8#

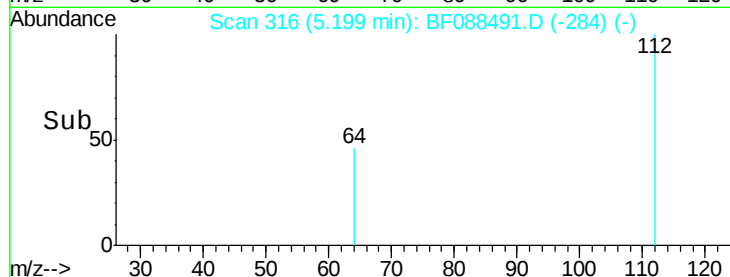


Abundance Ion 112.00 (111.70 to 112.70): E

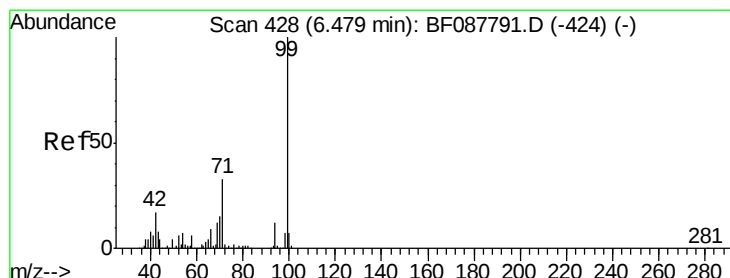
Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0

Time-->



Time-->



#7

Phenol-d6

Concen: 1.75 ng

RT: 6.24 min Scan# 407

Delta R.T. 0.01 min

Lab File: BF088491.D

Acq: 28 Jun 2016 21:05

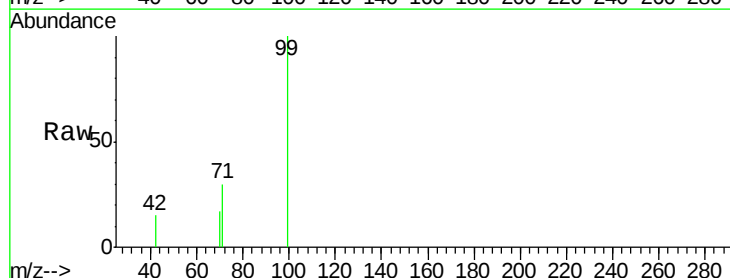
Tgt Ion: 99 Resp: 11535

Ion Ratio Lower Upper

99 100

42 15.4 12.2 18.2

71 30.1 23.4 35.0

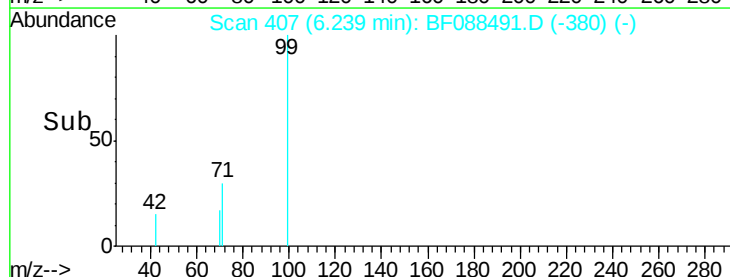


Abundance Ion 99.00 (98.70 to 99.70): BF0

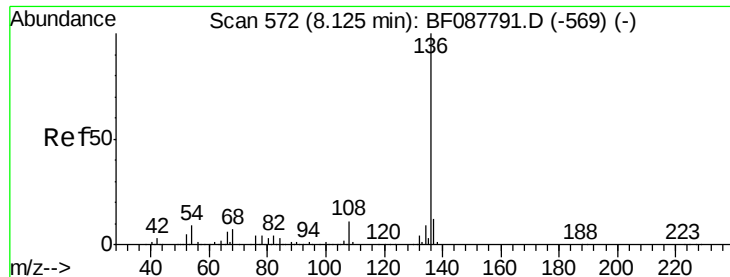
Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0

Time-->



Time-->



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.80 min Scan# 544

Delta R.T. -0.03 min

Lab File: BF088491.D

Acq: 28 Jun 2016 21:05

Instrument :

BNA_F

ClientSampleId :

TP-6DL

Tgt Ion:136 Resp: 387675

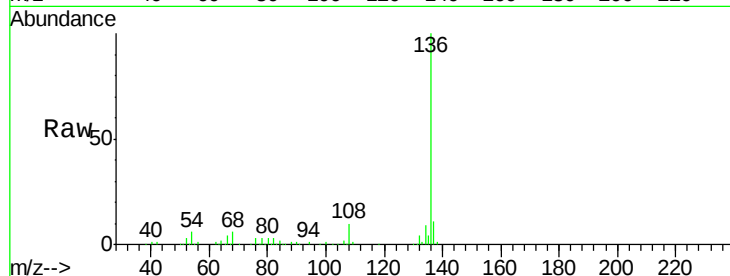
Ion Ratio Lower Upper

136 100

137 10.8 9.1 13.7

54 6.3 6.6 10.0#

68 5.5 5.1 7.7

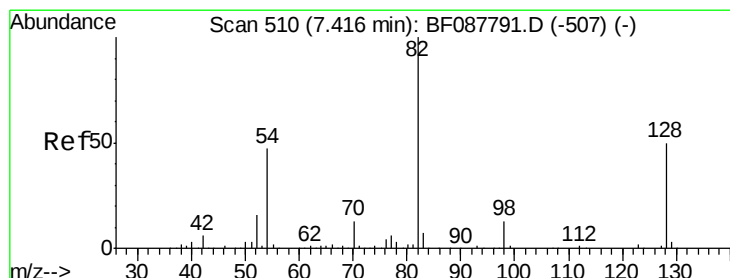
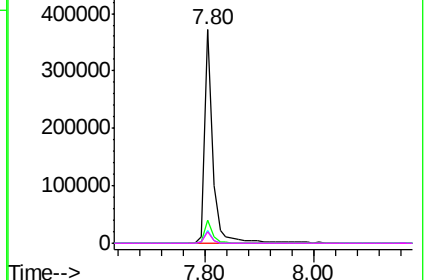
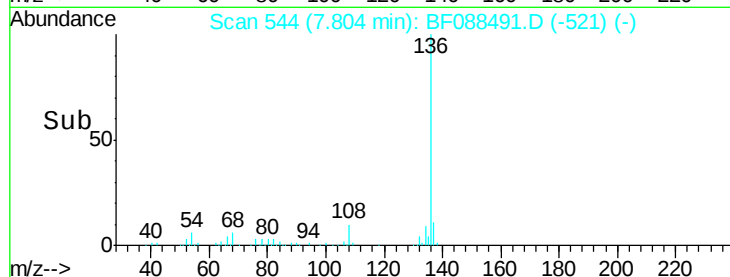


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 0.52 ng

RT: 7.15 min Scan# 487

Delta R.T. 0.02 min

Lab File: BF088491.D

Acq: 28 Jun 2016 21:05

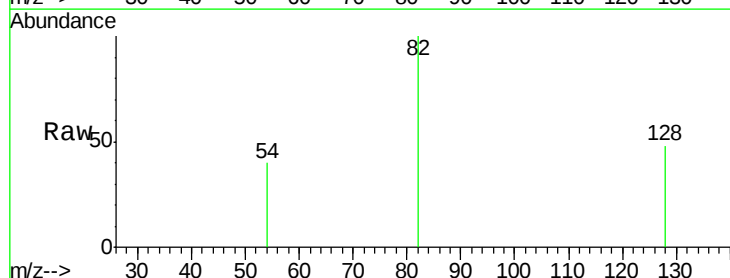
Tgt Ion: 82 Resp: 3427

Ion Ratio Lower Upper

82 100

128 47.9 35.9 53.9

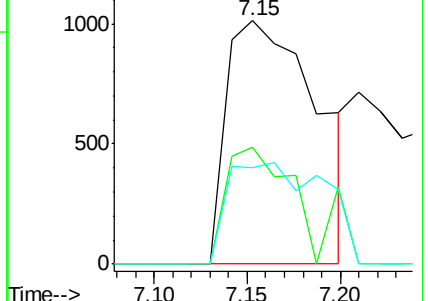
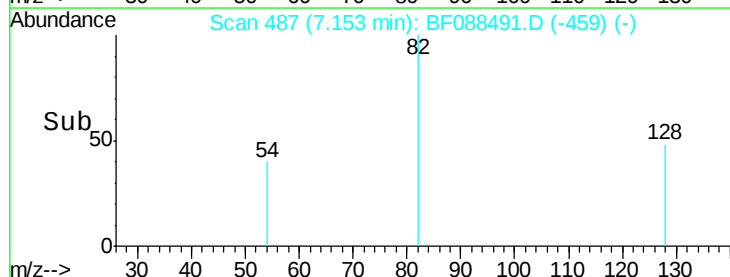
54 39.7 40.9 61.3#

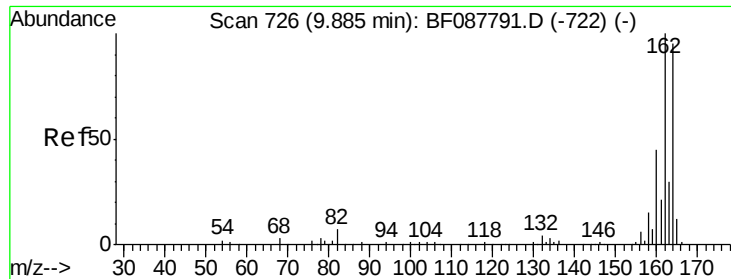


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

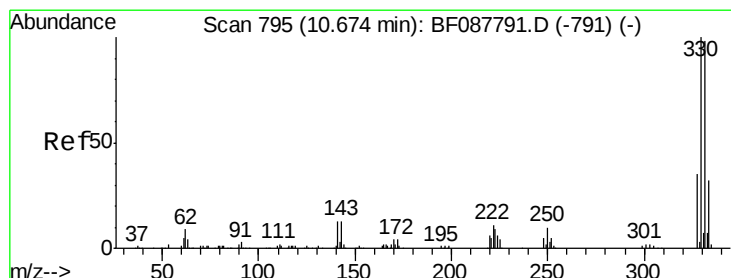
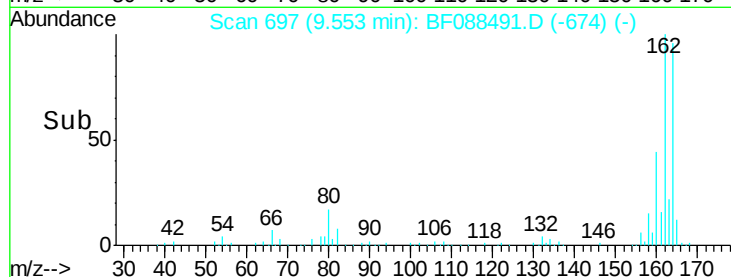
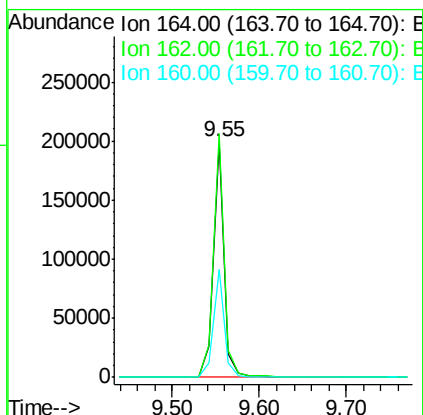
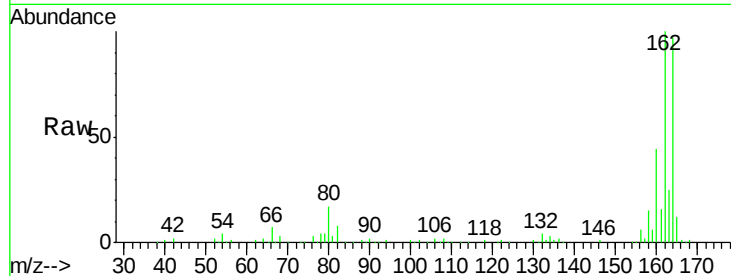




#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.55 min Scan# 697
 Delta R.T. -0.03 min
 Lab File: BF088491.D
 Acq: 28 Jun 2016 21:05

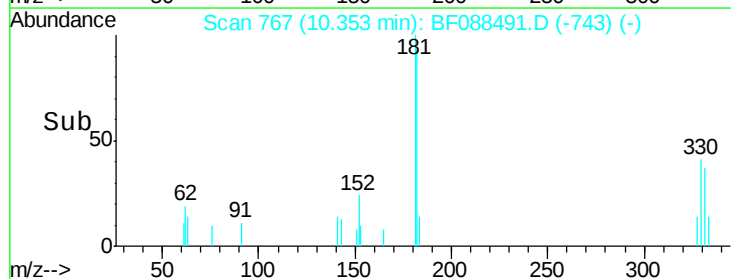
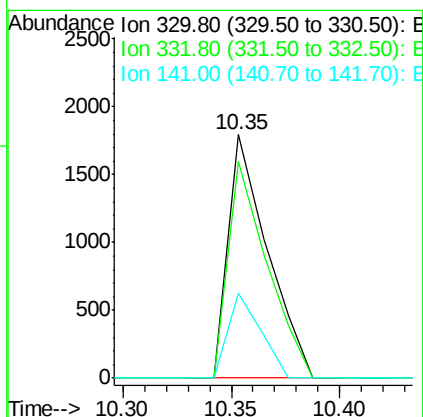
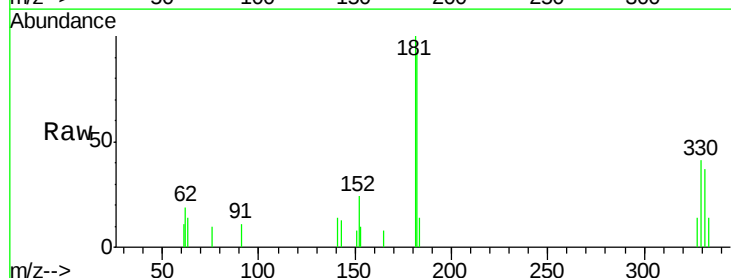
Instrument :
 BNA_F
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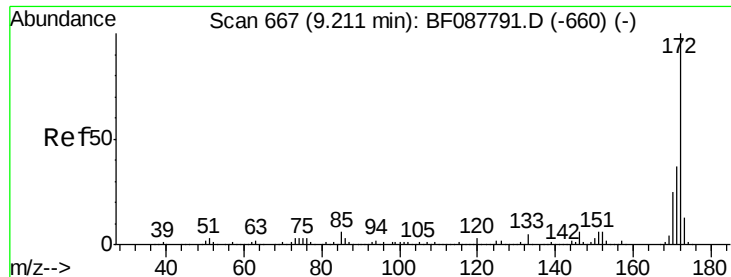
Tgt Ion:164 Resp: 175361
 Ion Ratio Lower Upper
 164 100
 162 103.6 85.4 128.2
 160 45.9 39.5 59.3



#41
 2,4,6-Tribromophenol
 Concen: 1.21 ng
 RT: 10.35 min Scan# 767
 Delta R.T. -0.02 min
 Lab File: BF088491.D
 Acq: 28 Jun 2016 21:05

Tgt Ion:330 Resp: 2247
 Ion Ratio Lower Upper
 330 100
 332 88.3 0.0 0.0#
 141 28.9 0.0 0.0#

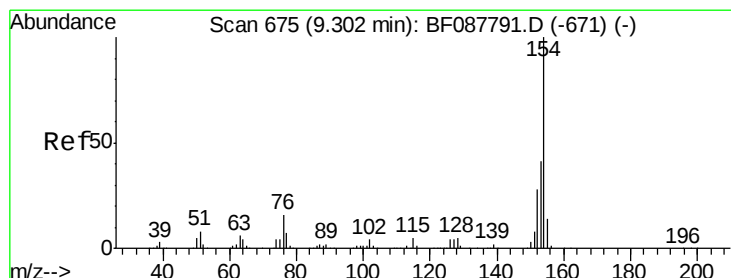
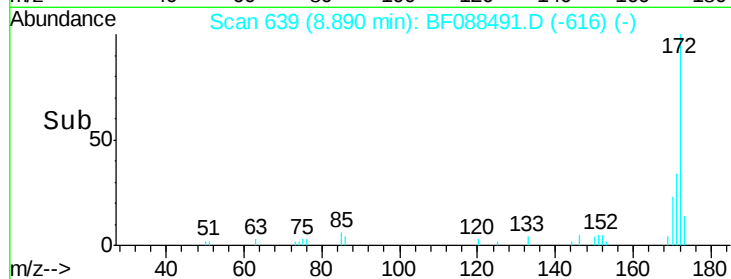
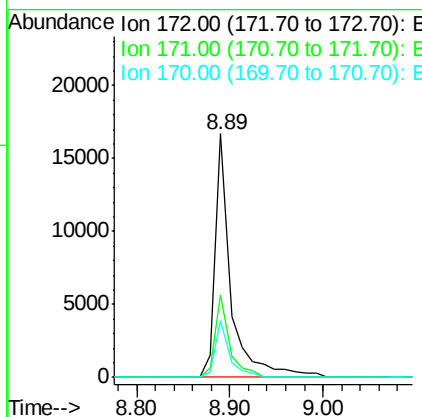
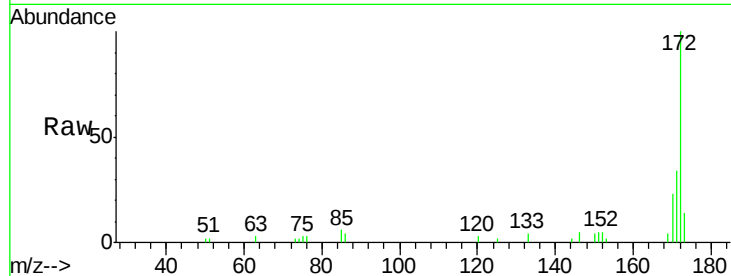




#44
 2-Fluorobiphenyl
 Concen: -4.05 ng
 RT: 8.89 min Scan# 639
 Delta R.T. -0.03 min
 Lab File: BF088491.D
 Acq: 28 Jun 2016 21:05

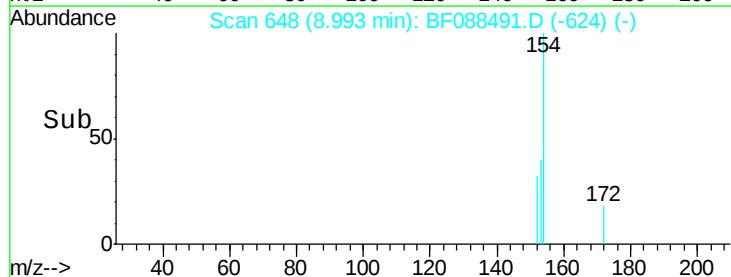
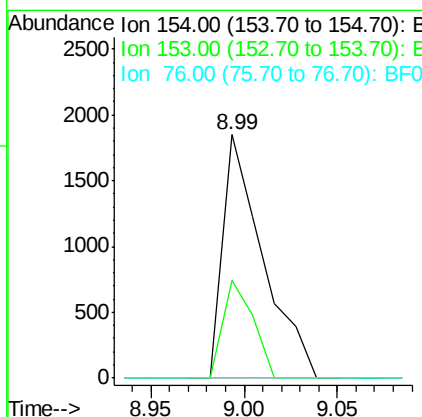
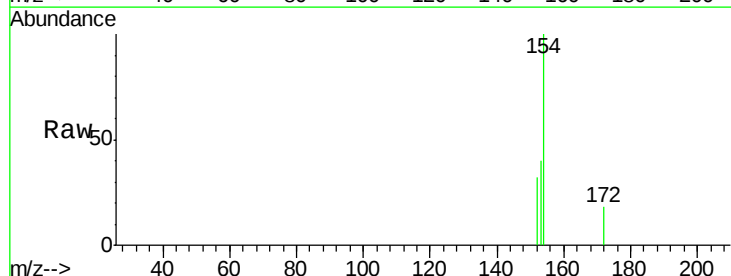
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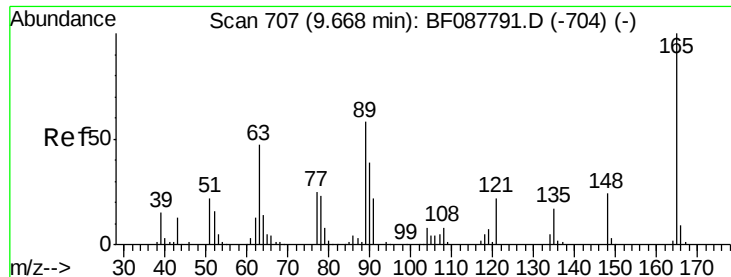
Tgt Ion:172 Resp: 19577
 Ion Ratio Lower Upper
 172 100
 171 34.1 28.6 43.0
 170 23.3 19.2 28.8



#45
 1,1'-Biphenyl
 Concen: Below Cal
 RT: 8.99 min Scan# 648
 Delta R.T. -0.02 min
 Lab File: BF088491.D
 Acq: 28 Jun 2016 21:05

Tgt Ion:154 Resp: 2773
 Ion Ratio Lower Upper
 154 100
 153 40.2 20.6 60.6
 76 0.0 0.0 35.1

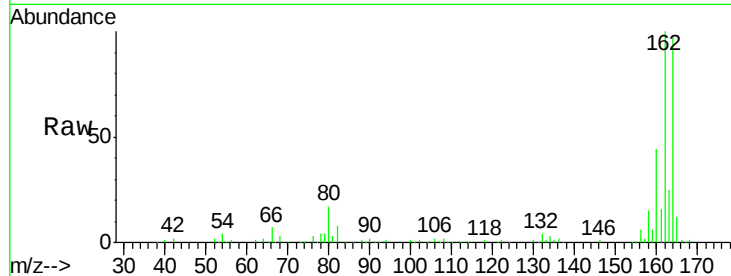




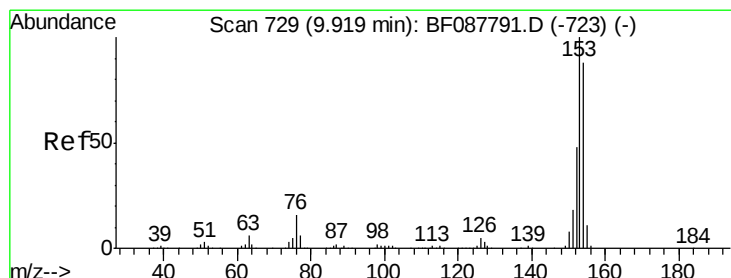
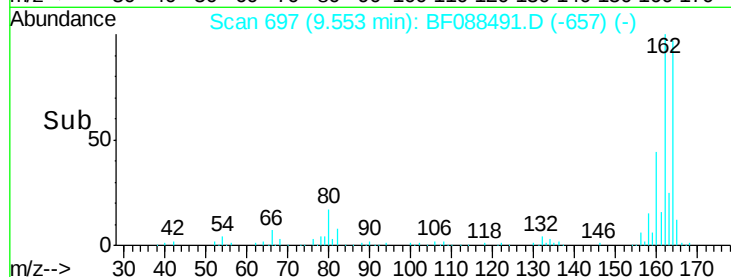
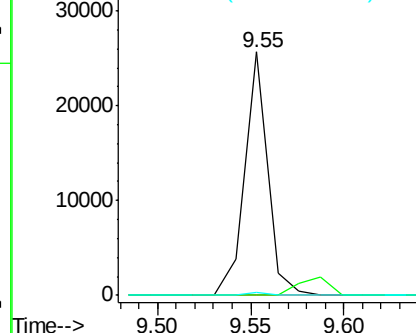
#50
2,6-Dinitrotoluene
Concen: 7.62 ng
RT: 9.55 min Scan# 697
Delta R.T. 0.16 min
Lab File: BF088491.D
Acq: 28 Jun 2016 21:05

Instrument :
BNA_F
ClientSampleId :
TP-6DL

Tgt Ion:165 Resp: 22173
Ion Ratio Lower Upper
165 100
63 0.0 28.1 42.1#
89 1.5 32.2 48.2#

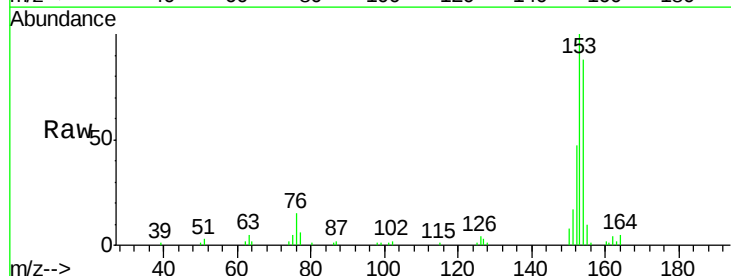


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0

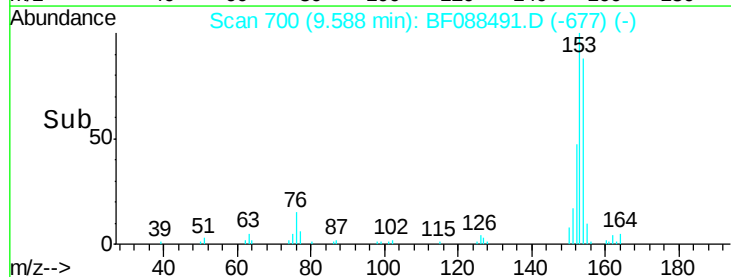
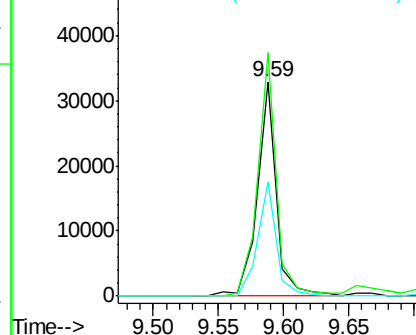


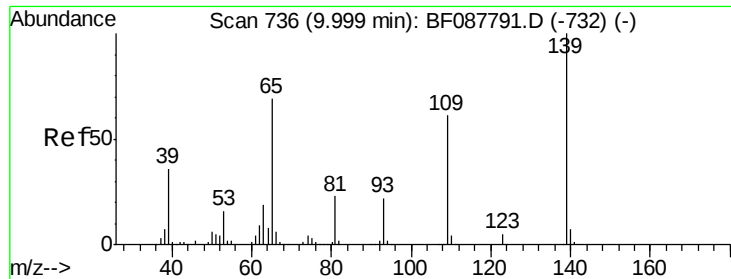
#51
Acenaphthene
Concen: 2.97 ng
RT: 9.59 min Scan# 700
Delta R.T. -0.03 min
Lab File: BF088491.D
Acq: 28 Jun 2016 21:05

Tgt Ion:154 Resp: 33474
Ion Ratio Lower Upper
154 100
153 113.6 89.5 134.3
152 53.2 42.7 64.1



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#55

4-Nitrophenol

Concen: 3.99 ng

RT: 9.76 min Scan# 715

Delta R.T. -0.02 min

Lab File: BF088491.D

Acq: 28 Jun 2016 21:05

Instrument :

BNA_F

ClientSampleId :

TP-6DL

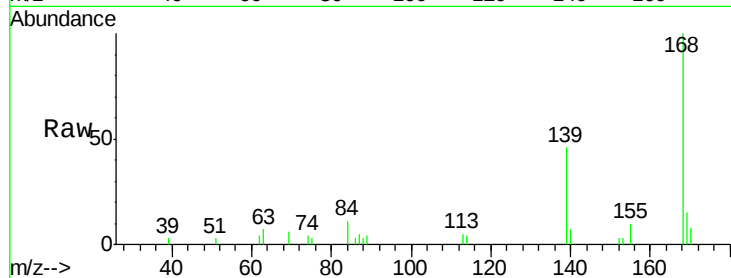
Tgt Ion:139 Resp: 10403

Ion Ratio Lower Upper

139 100

109 0.0 48.9 88.9#

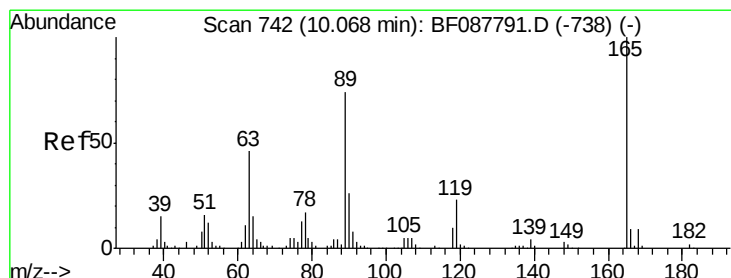
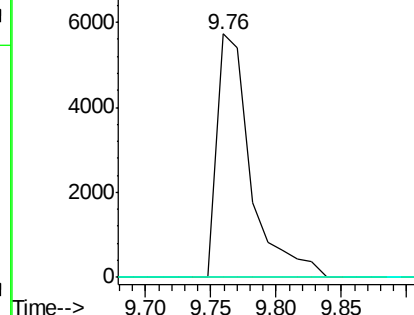
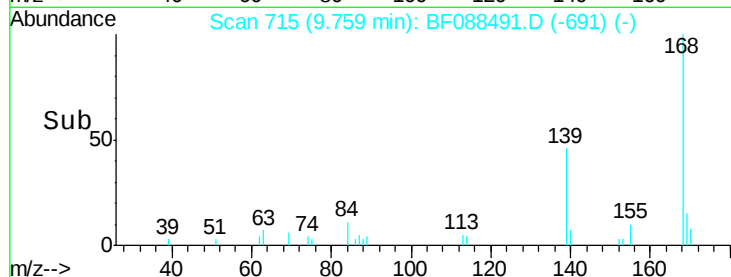
65 0.0 84.9 124.9#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



#56

2,4-Dinitrotoluene

Concen: 5.93 ng

RT: 9.55 min Scan# 697

Delta R.T. -0.25 min

Lab File: BF088491.D

Acq: 28 Jun 2016 21:05

Tgt Ion:165 Resp: 22173

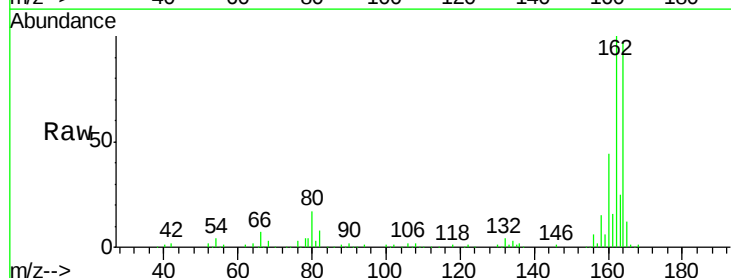
Ion Ratio Lower Upper

165 100

63 0.0 22.0 33.0#

89 1.5 41.1 61.7#

182 0.0 2.0 3.0#

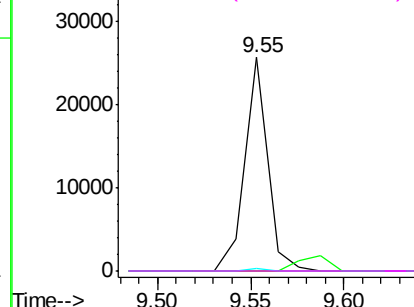
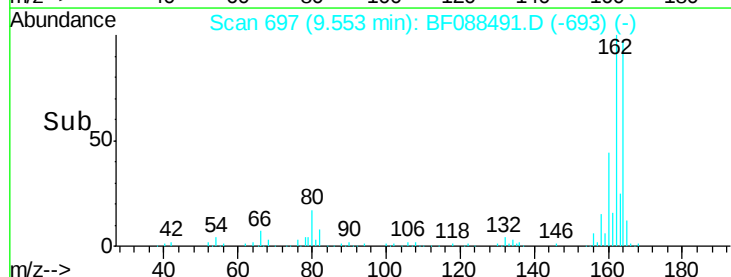


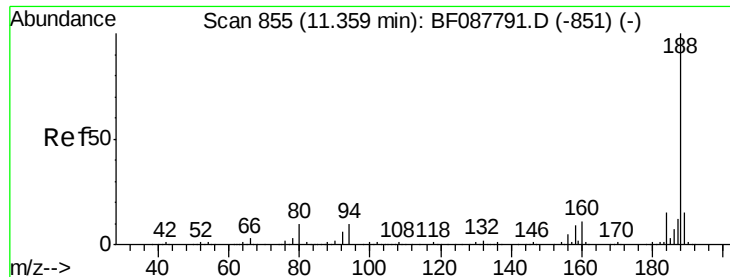
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

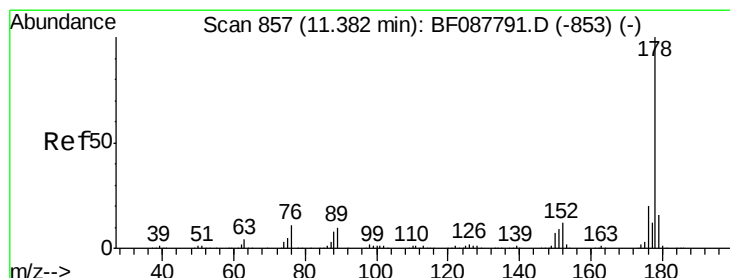
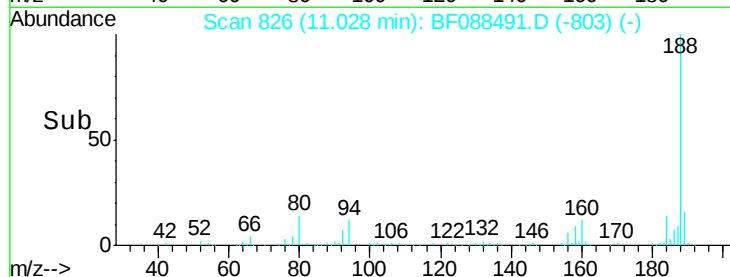
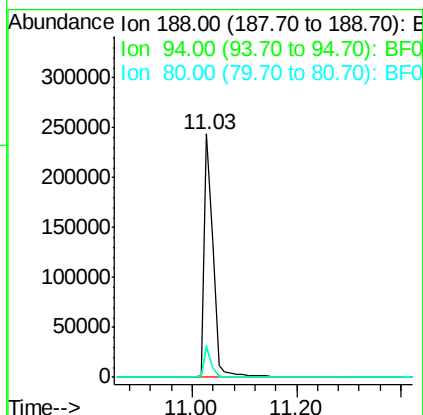
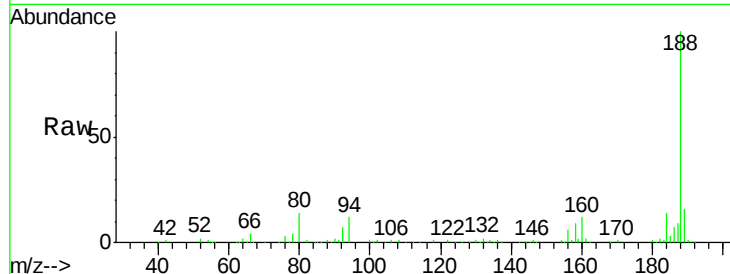




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.03 min Scan# 826
Delta R.T. -0.03 min
Lab File: BF088491.D
Acq: 28 Jun 2016 21:05

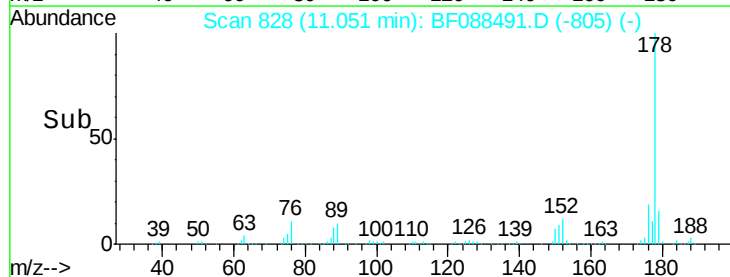
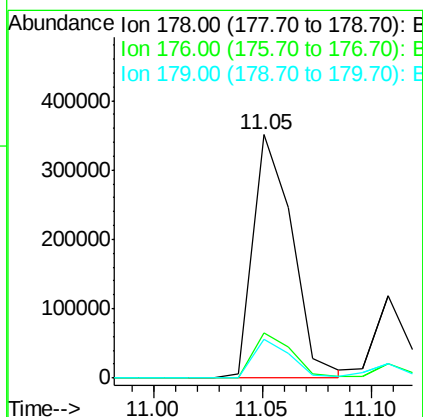
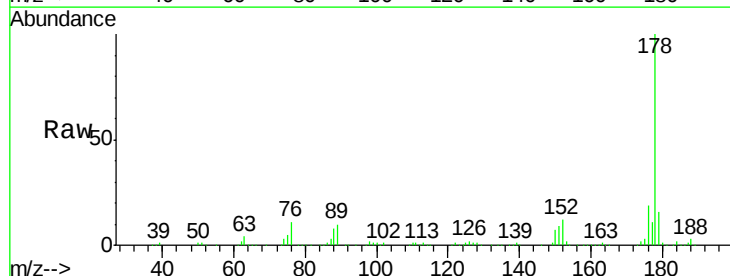
Instrument :
BNA_F
ClientSampleId :
TP-6DL

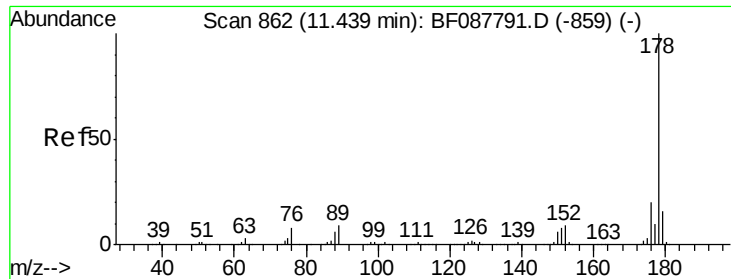
Tgt Ion:188 Resp: 290327
Ion Ratio Lower Upper
188 100
94 12.5 9.0 13.6
80 13.5 10.0 15.0



#70
Phenanthrene
Concen: 29.05 ng
RT: 11.05 min Scan# 828
Delta R.T. -0.03 min
Lab File: BF088491.D
Acq: 28 Jun 2016 21:05

Tgt Ion:178 Resp: 442635
Ion Ratio Lower Upper
178 100
176 18.7 15.8 23.6
179 15.7 13.0 19.4

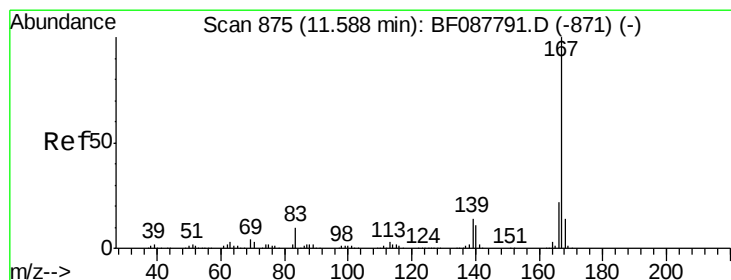
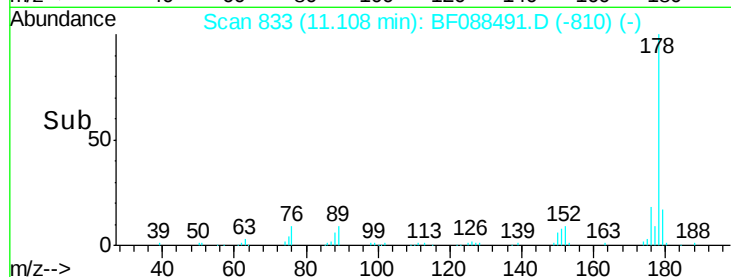
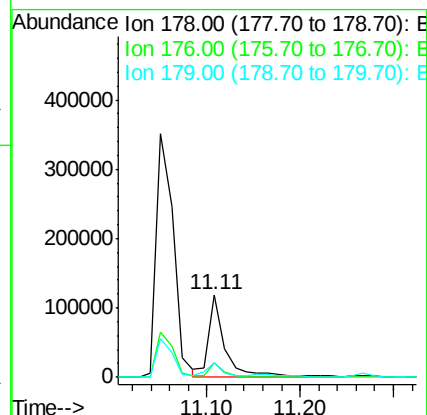
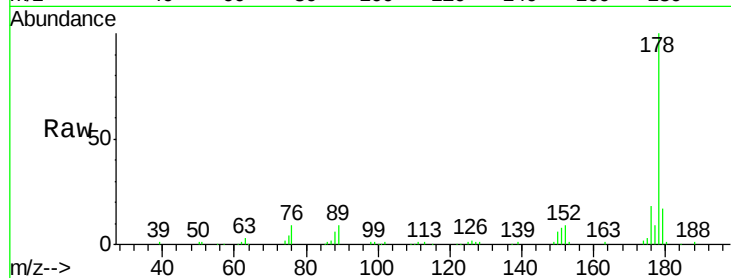




#71
 Anthracene
 Concen: 9.44 ng
 RT: 11.11 min Scan# 833
 Delta R.T. -0.03 min
 Lab File: BF088491.D
 Acq: 28 Jun 2016 21:05

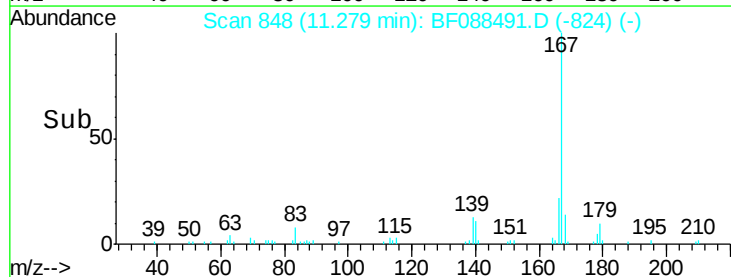
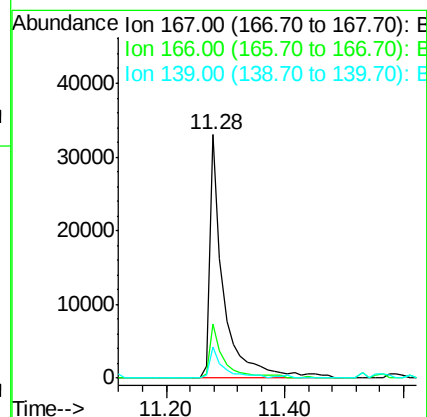
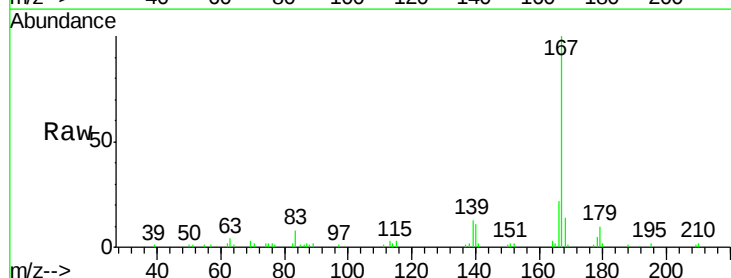
Instrument :
 BNA_F
 ClientSampleId :
 TP-6DL

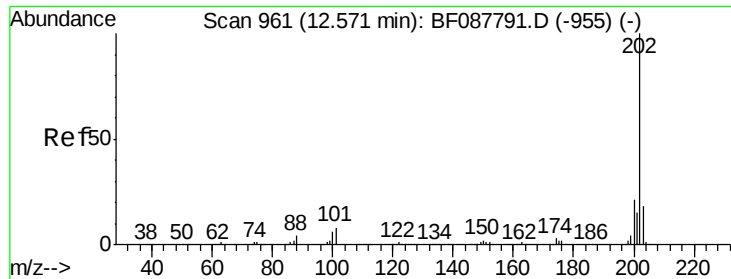
Tgt Ion:178 Resp: 145035
 Ion Ratio Lower Upper
 178 100
 176 18.2 15.6 23.4
 179 17.1 12.8 19.2



#72
 Carbazole
 Concen: 3.74 ng
 RT: 11.28 min Scan# 848
 Delta R.T. -0.02 min
 Lab File: BF088491.D
 Acq: 28 Jun 2016 21:05

Tgt Ion:167 Resp: 53741
 Ion Ratio Lower Upper
 167 100
 166 22.5 17.8 26.6
 139 13.0 11.2 16.8





#74

Fluoranthene

Concen: 38.50 ng

RT: 12.24 min Scan# 932

Delta R.T. -0.02 min

Lab File: BF088491.D

Acq: 28 Jun 2016 21:05

Instrument :

BNA_F

ClientSampleId :

TP-6DL

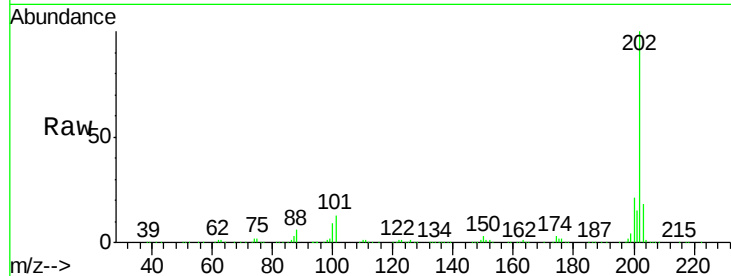
Tgt Ion:202 Resp: 619037

Ion Ratio Lower Upper

202 100

101 12.6 0.0 33.1

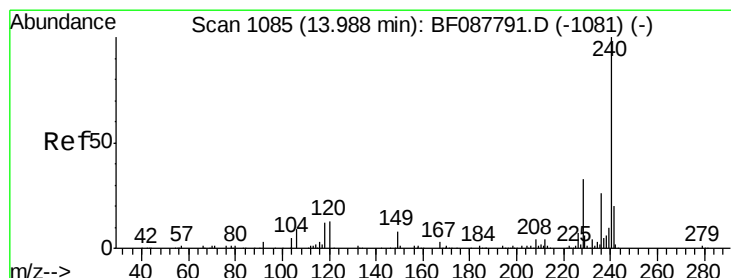
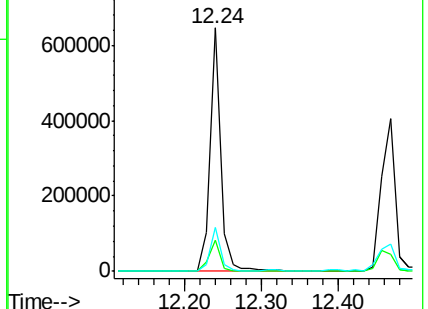
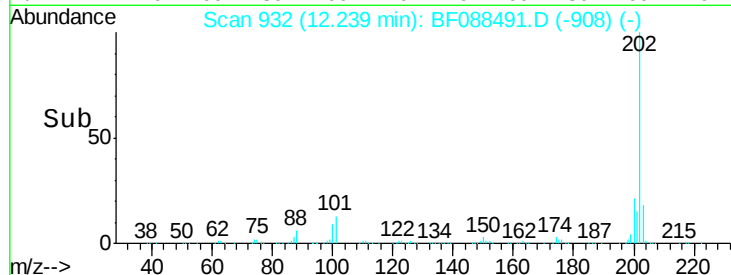
203 17.8 0.0 38.1



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.66 min Scan# 1056

Delta R.T. -0.03 min

Lab File: BF088491.D

Acq: 28 Jun 2016 21:05

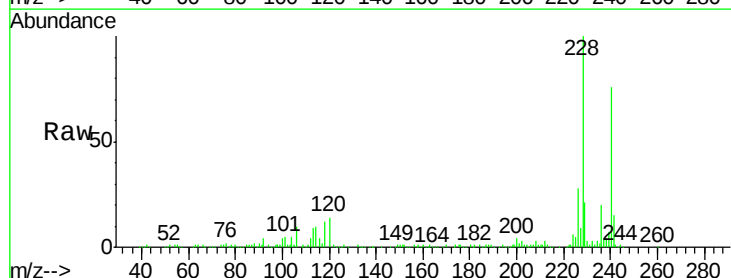
Tgt Ion:240 Resp: 175976

Ion Ratio Lower Upper

240 100

120 17.9 6.8 10.2#

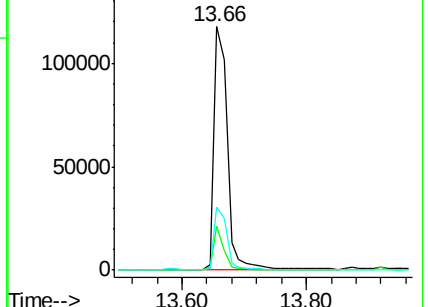
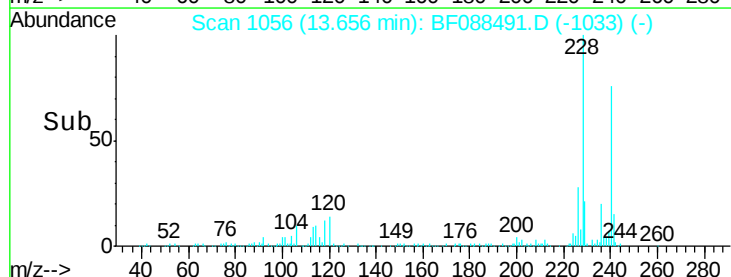
236 25.8 20.2 30.2

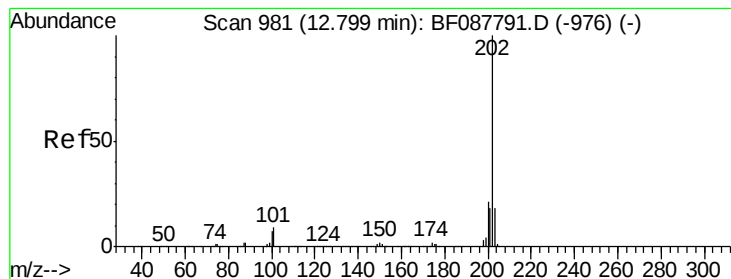


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 38.64 ng

RT: 12.47 min Scan# 952

Delta R.T. -0.02 min

Lab File: BF088491.D

Acq: 28 Jun 2016 21:05

Instrument :

BNA_F

ClientSampled :

TP-6DL

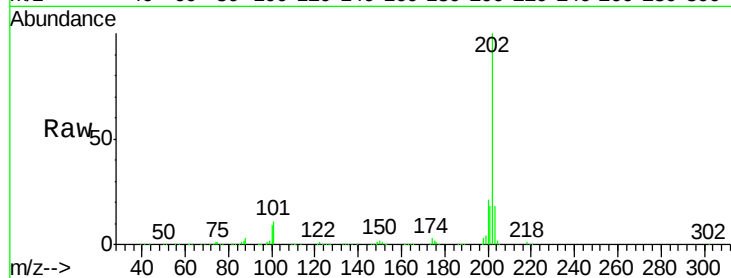
Tgt Ion:202 Resp: 504565

Ion Ratio Lower Upper

202 100

200 21.0 17.4 26.2

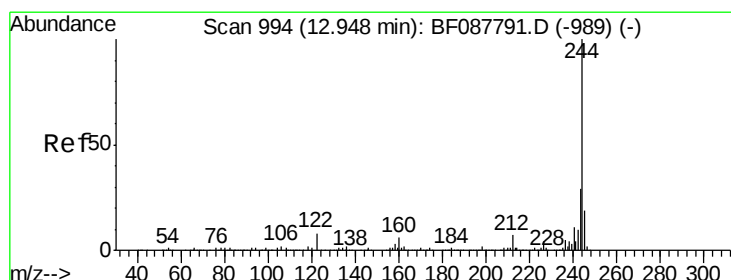
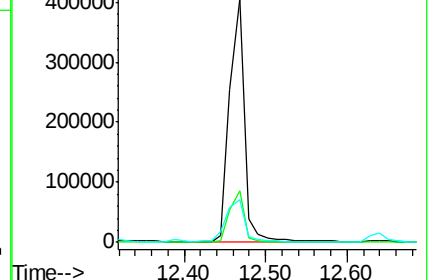
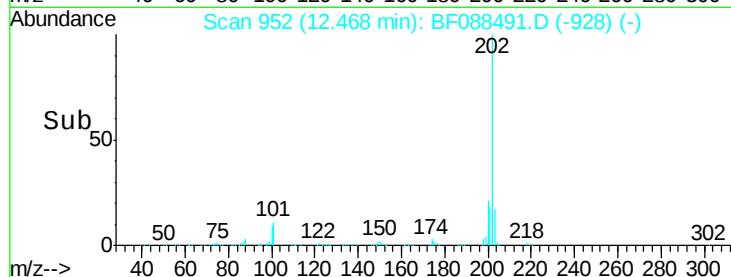
203 17.6 14.5 21.7



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



#78

Terphenyl-d14

Concen: 1.90 ng

RT: 12.62 min Scan# 965

Delta R.T. -0.02 min

Lab File: BF088491.D

Acq: 28 Jun 2016 21:05

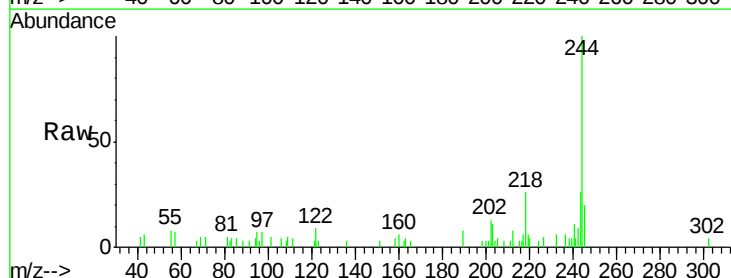
Tgt Ion:244 Resp: 14702

Ion Ratio Lower Upper

244 100

212 7.6 6.0 9.0

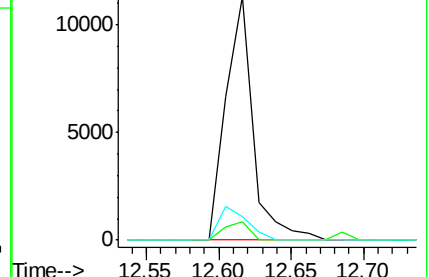
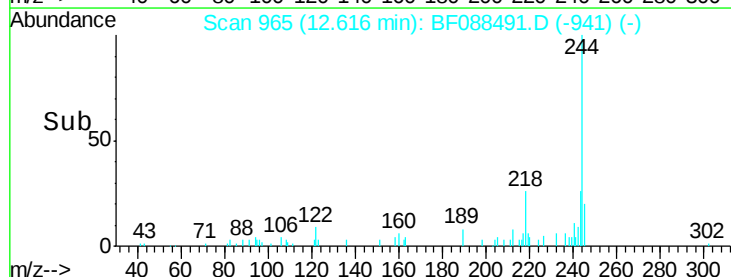
122 9.5 11.2 16.8#

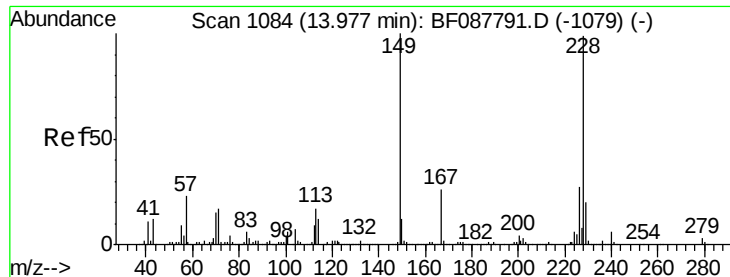


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 23.05 ng

RT: 13.66 min Scan# 1056

Delta R.T. -0.01 min

Lab File: BF088491.D

Acq: 28 Jun 2016 21:05

Instrument :

BNA_F

ClientSampleId :

TP-6DL

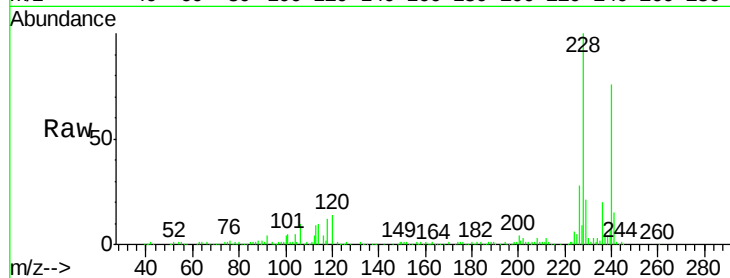
Tgt Ion:228 Resp: 231132

Ion Ratio Lower Upper

228 100

226 28.0 22.3 33.5

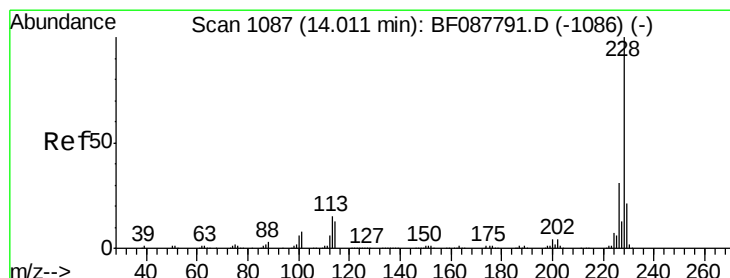
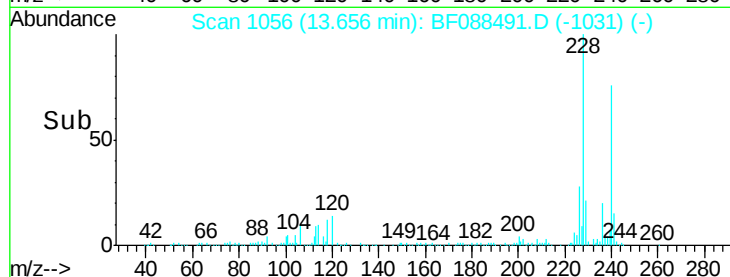
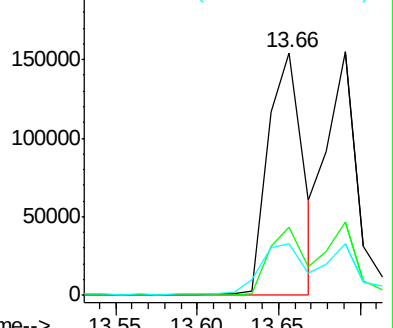
229 21.1 16.0 24.0



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



#82

Chrysene

Concen: 24.50 ng

RT: 13.66 min Scan# 1056

Delta R.T. -0.06 min

Lab File: BF088491.D

Acq: 28 Jun 2016 21:05

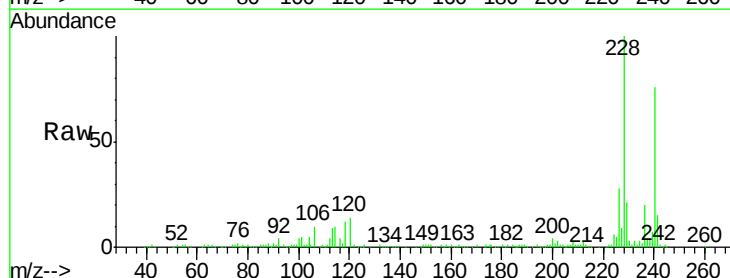
Tgt Ion:228 Resp: 231132

Ion Ratio Lower Upper

228 100

226 28.0 25.4 38.2

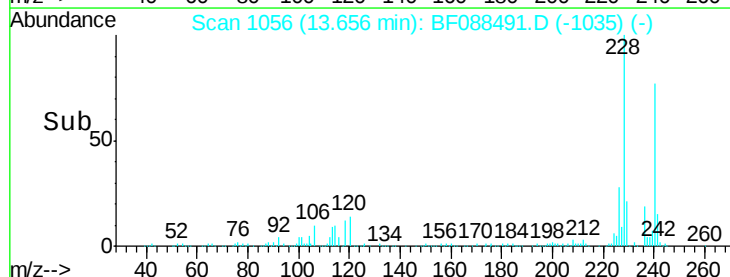
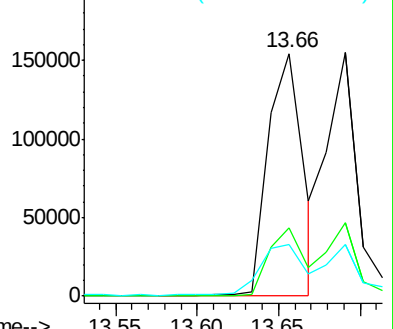
229 21.1 16.3 24.5

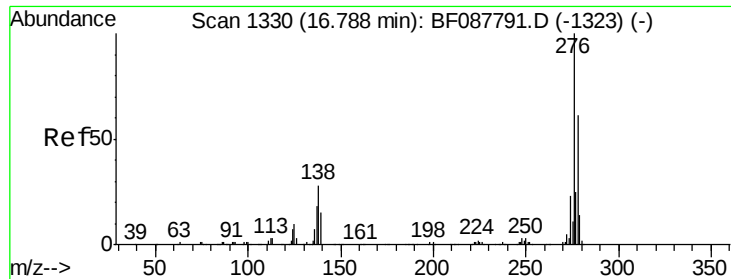


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 17.62 ng

RT: 16.24 min Scan# 1282

Delta R.T. -0.02 min

Lab File: BF088491.D

Acq: 28 Jun 2016 21:05

Instrument :

BNA_F

ClientSampleId :

TP-6DL

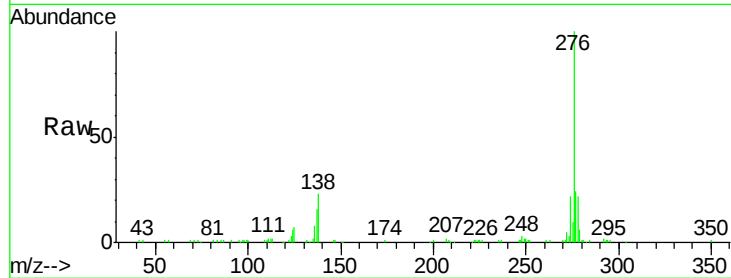
Tgt Ion: 276 Resp: 154409

Ion Ratio Lower Upper

276 100

138 28.2 0.0 0.0#

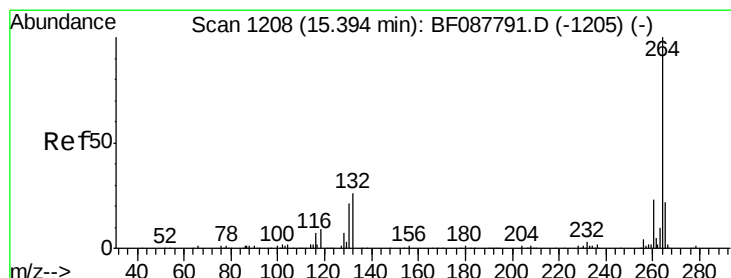
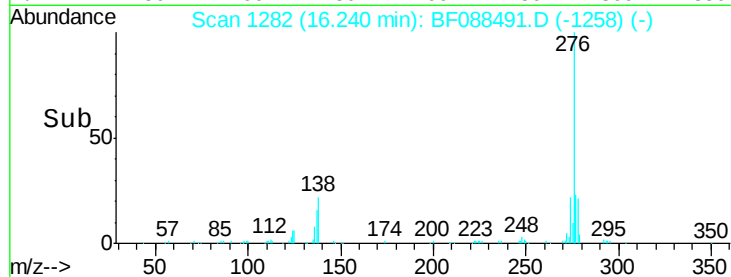
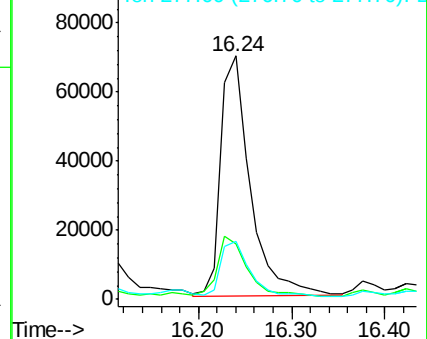
277 22.5 0.0 0.0#



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.02 min Scan# 1175

Delta R.T. -0.01 min

Lab File: BF088491.D

Acq: 28 Jun 2016 21:05

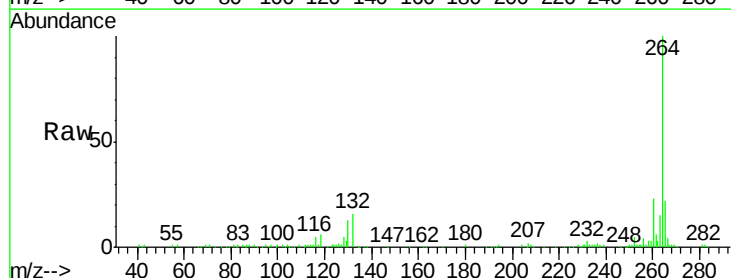
Tgt Ion: 264 Resp: 158807

Ion Ratio Lower Upper

264 100

260 23.3 19.2 28.8

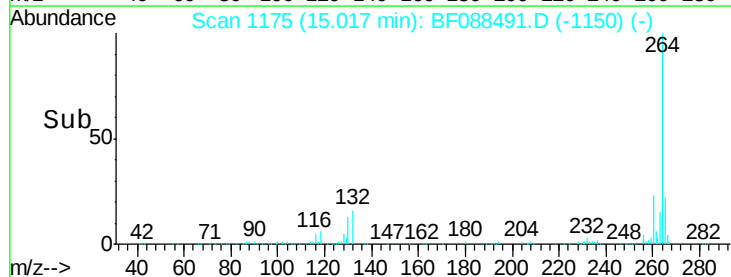
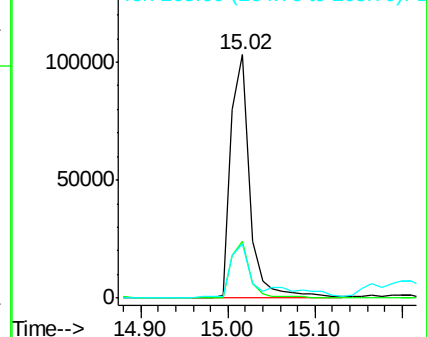
265 22.2 16.9 25.3

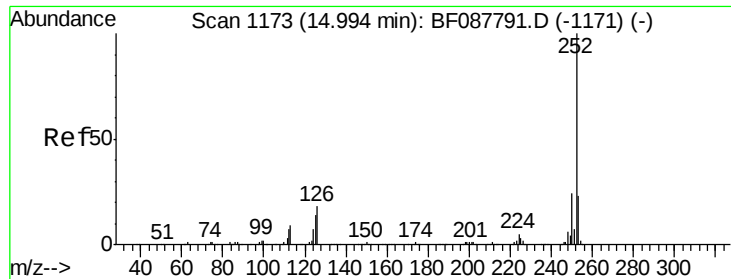


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

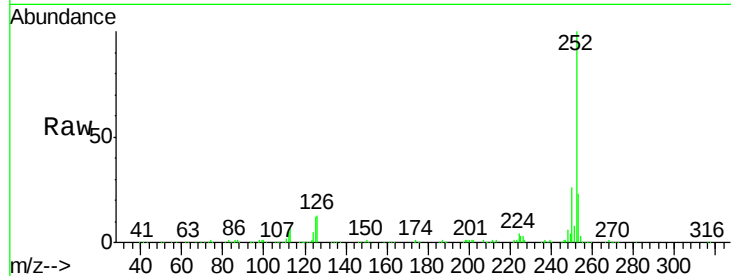




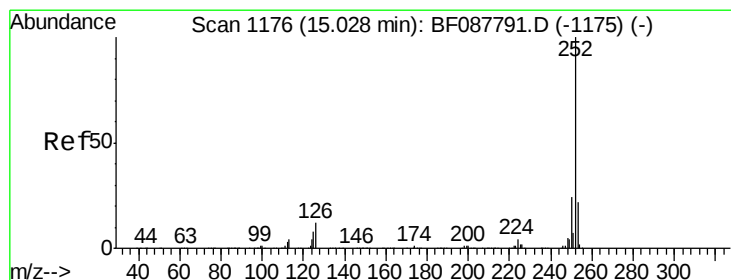
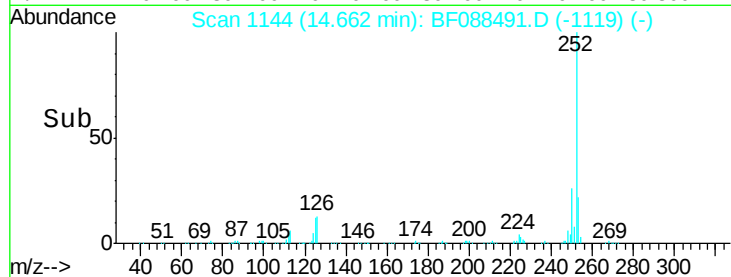
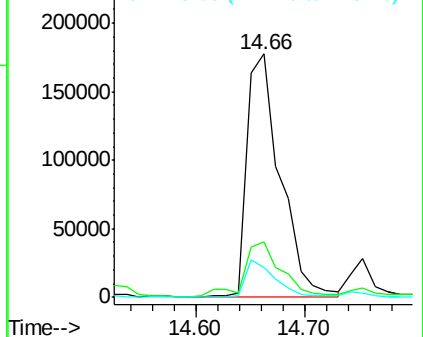
#87
Benzo(b)fluoranthene
Concen: 33.98 ng
RT: 14.66 min Scan# 1144
Delta R.T. -0.01 min
Lab File: BF088491.D
Acq: 28 Jun 2016 21:05

Instrument :
BNA_F
ClientSampleId :
TP-6DL

Tgt Ion:252 Resp: 376079
Ion Ratio Lower Upper
252 100
253 22.6 17.4 26.2
125 12.3 7.1 10.7#

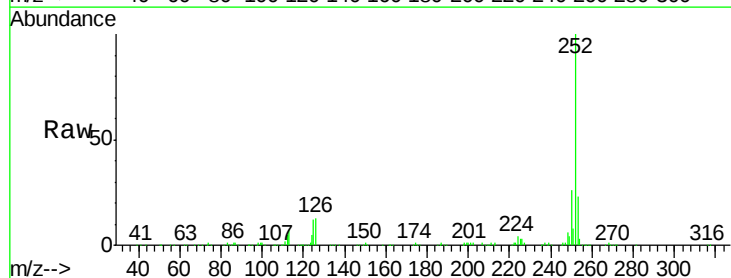


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

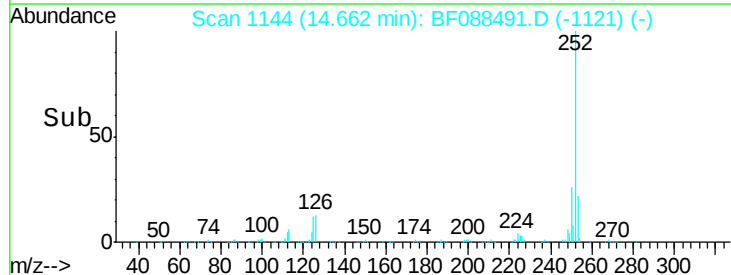
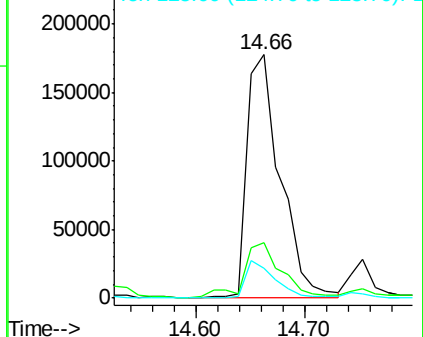


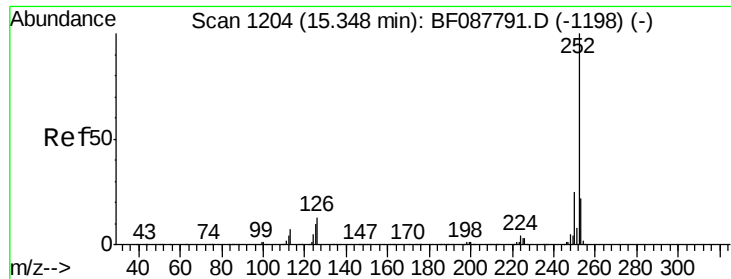
#88
Benzo(k)fluoranthene
Concen: 45.04 ng
RT: 14.66 min Scan# 1144
Delta R.T. -0.03 min
Lab File: BF088491.D
Acq: 28 Jun 2016 21:05

Tgt Ion:252 Resp: 376079
Ion Ratio Lower Upper
252 100
253 22.6 18.0 27.0
125 12.3 11.2 16.8



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





#89

Benzo(a)pyrene

Concen: 21.45 ng

RT: 14.96 min Scan# 1170

Delta R.T. -0.02 min

Lab File: BF088491.D

Acq: 28 Jun 2016 21:05

Instrument :

BNA_F

ClientSampleId :

TP-6DL

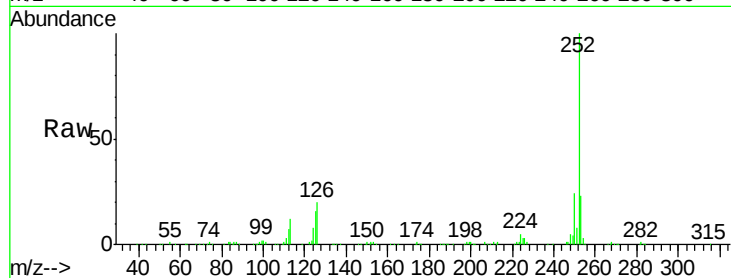
Tgt Ion:252 Resp: 192088

Ion Ratio Lower Upper

252 100

253 23.3 17.9 26.9

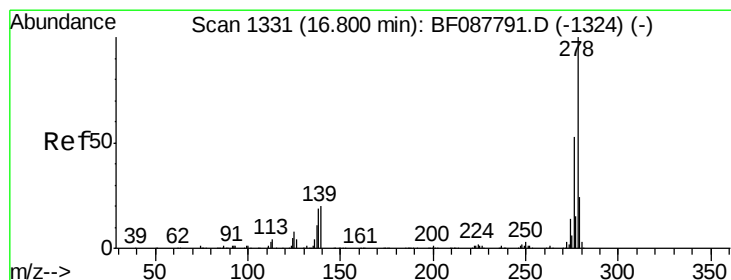
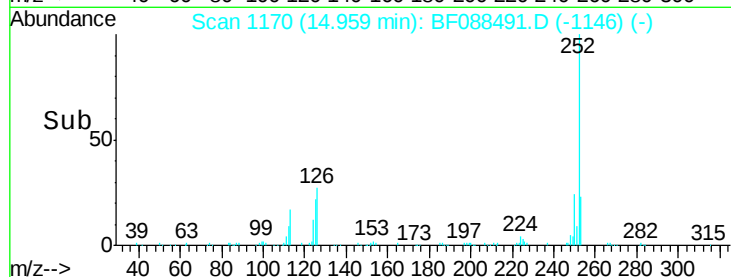
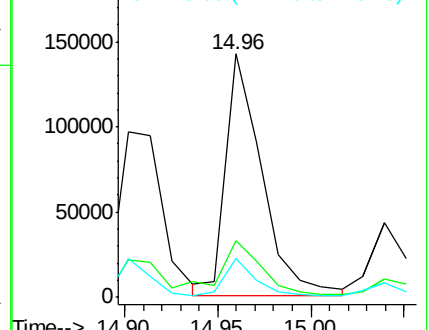
125 15.8 12.5 18.7



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 3.09 ng

RT: 16.38 min Scan# 1294

Delta R.T. 0.11 min

Lab File: BF088491.D

Acq: 28 Jun 2016 21:05

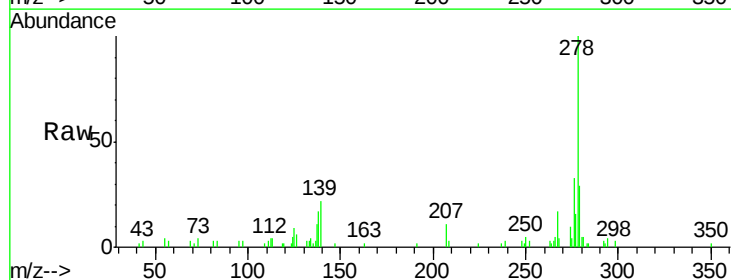
Tgt Ion:278 Resp: 25733

Ion Ratio Lower Upper

278 100

139 21.9 15.7 23.5

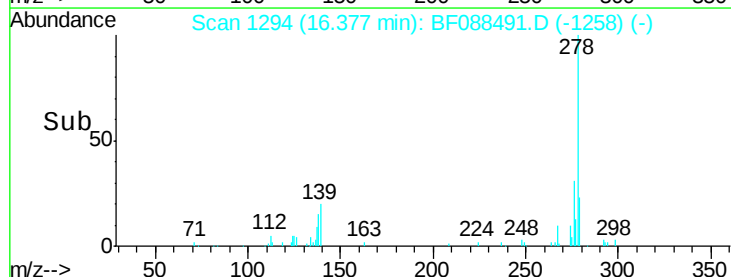
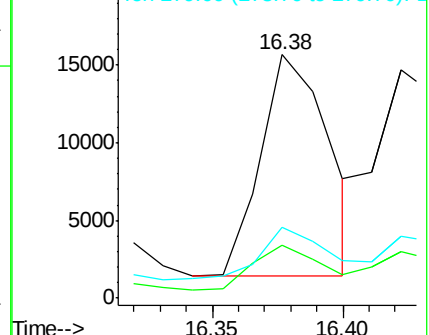
279 28.9 19.4 29.2

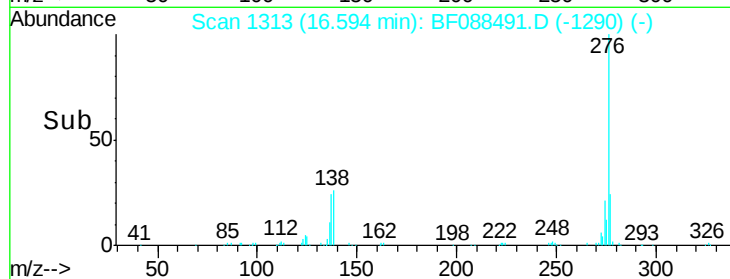
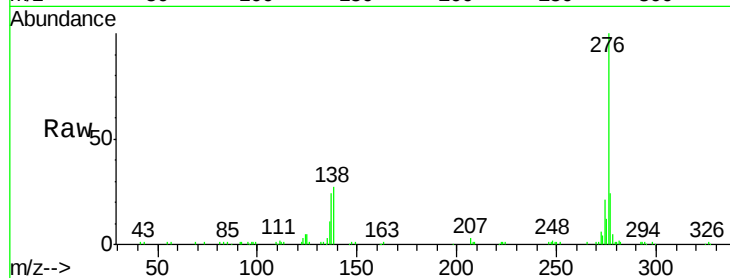
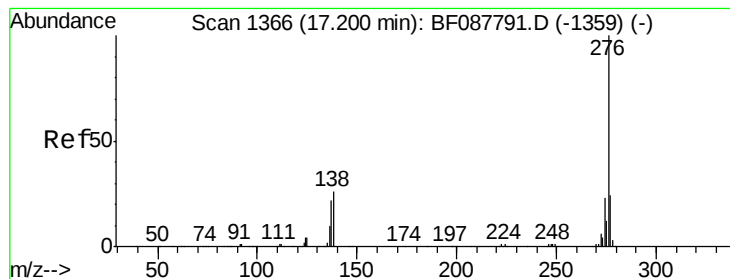


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 17.84 ng

RT: 16.59 min Scan# 1313

Delta R.T. -0.03 min

Lab File: BF088491.D

Acq: 28 Jun 2016 21:05

Instrument :

BNA_F

ClientSampleId :

TP-6DL

Tgt Ion: 276 Resp: 152667

Ion Ratio Lower Upper

276 100

277 24.3 18.9 28.3

138 26.9 21.4 32.2

