

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092816\
 Data File : BF090276.D
 Acq On : 28 Sep 2016 12:49
 Operator : UM/SJ
 Sample : H4949-05DL 50X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S-3-1-LOC-3(0-5)DL

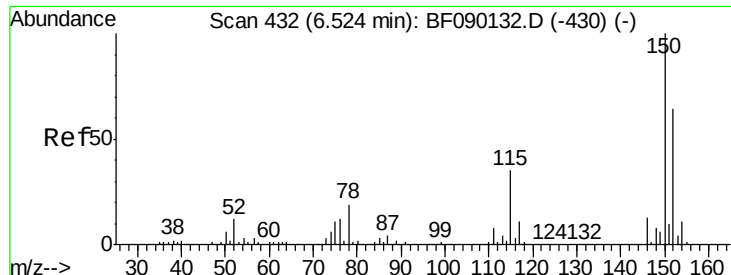
Quant Time: Sep 29 11:16:08 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 26 15:58:38 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.47	152	128781	20.00	ng	-0.01
21) Naphthalene-d8	7.76	136	530978	20.00	ng	-0.01
38) Acenaphthene-d10	9.50	164	282379	20.00	ng	-0.01
63) Phenanthrene-d10	10.97	188	458618	20.00	ng	-0.01
75) Chrysene-d12	13.58	240	282332	20.00	ng	-0.02
86) Perylene-d12	14.90	264	280885	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.03	112	8430	1.07	ng	0.00
7) Phenol-d6	6.14	99	14184	1.45	ng	0.00
23) Nitrobenzene-d5	7.05	82	9068	0.99	ng	-0.01
41) 2,4,6-Tribromophenol	10.28	330	3468	1.43	ng	-0.01
44) 2-Fluorobiphenyl	8.83	172	20960	1.46	ng	-0.02
78) Terphenyl-d14	12.55	244	18099	1.63	ng	-0.01

Target Compounds				Qvalue		
31) Naphthalene	7.78	128	62046	2.45	ng	98
48) Acenaphthylene	9.36	152	63365	2.62	ng	98
57) Fluorene	10.04	166	41735	2.93	ng	98
70) Phenanthrene	10.99	178	476819	22.23	ng	99
71) Anthracene	11.04	178	114552	5.09	ng	98
72) Carbazole	11.21	167	67908	2.86	ng	98
74) Fluoranthene	12.17	202	589278	25.60	ng	94
77) Pyrene	12.39	202	434496	22.49	ng	98
80) Benzo(a)anthracene	13.57	228	219239	14.43	ng	# 92
82) Chrysene	13.60	228	179827m	12.15	ng	
85) Indeno(1,2,3-cd)pyrene	16.03	276	125258	10.47	ng	# 90
87) Benzo(b)fluoranthene	14.56	252	235452m	15.14	ng	
88) Benzo(k)fluoranthene	14.57	252	105514m	7.23	ng	
89) Benzo(a)pyrene	14.85	252	175592	12.00	ng	# 91
90) Dibenzo(a,h)anthracene	16.05	278	36204m	3.17	ng	
91) Benzo(g,h,i)perylene	16.38	276	108121	9.68	ng	96

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.47 min Scan# 427

Delta R.T. -0.01 min

Lab File: BF090276.D

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S-3-1-LOC-3(0-5)DL

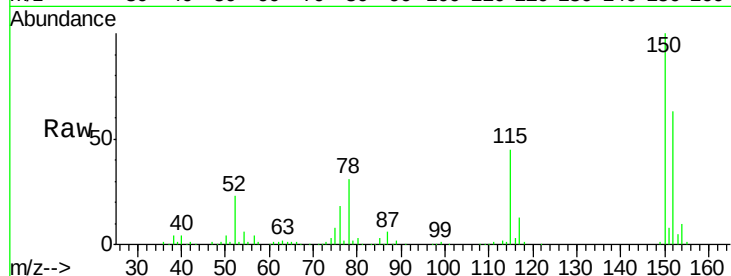
Tot Ion:152 Resp: 128781

Ion Ratio Lower Upper

152 100

150 158.6 128.9 193.3

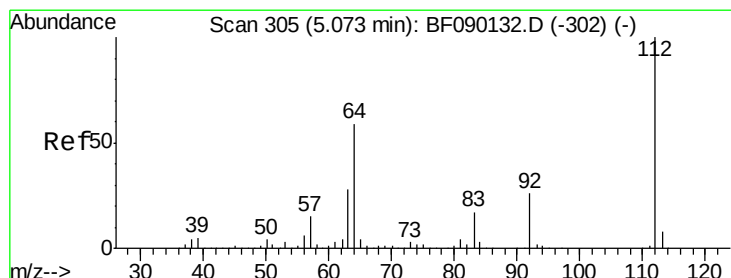
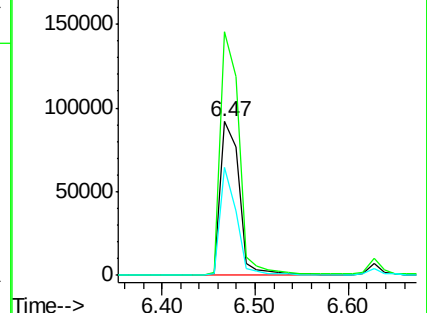
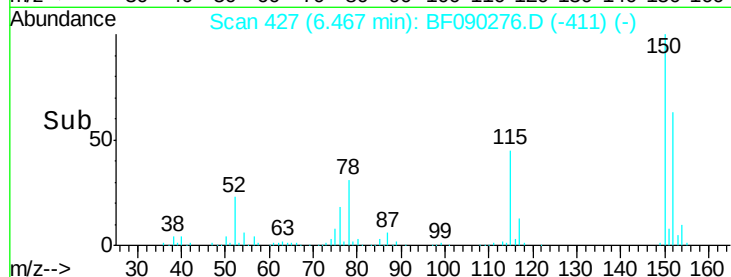
115 70.7 55.5 83.3



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



#5

2-Fluorophenol

Concen: 1.07 ng

RT: 5.03 min Scan# 301

Delta R.T. -0.00 min

Lab File: BF090276.D

Acq: 28 Sep 2016 12:49

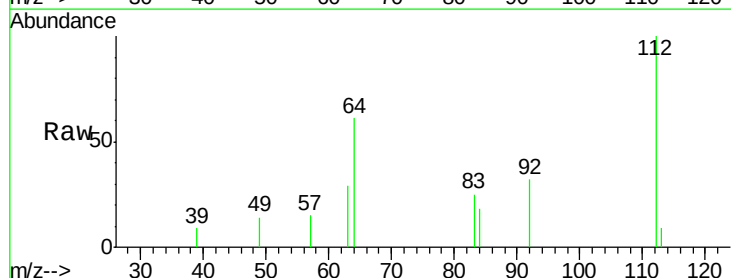
Tgt Ion:112 Resp: 8430

Ion Ratio Lower Upper

112 100

64 61.3 39.8 59.6#

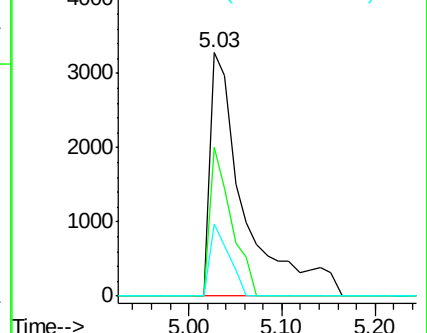
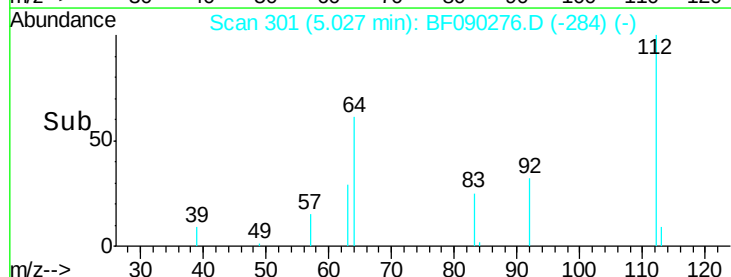
63 29.4 18.9 28.3#

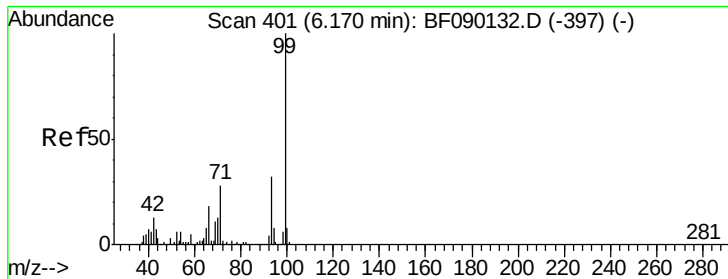


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 1.45 ng

RT: 6.14 min Scan# 398

Delta R.T. -0.00 min

Lab File: BF090276.D

Acq: 28 Sep 2016 12:49

Instrument :

BNA_F

ClientSampleId :

S-3-1-LOC-3(0-5)DL

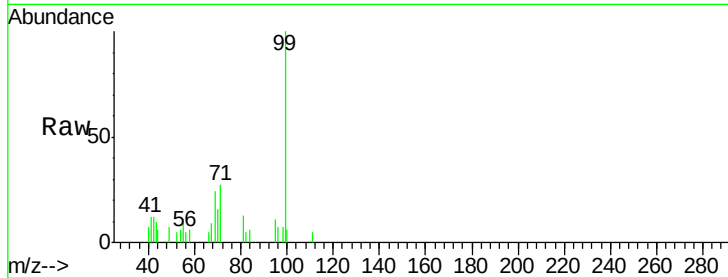
Tot Ion: 99 Resp: 14184

Ion Ratio Lower Upper

99 100

42 12.5 10.6 15.8

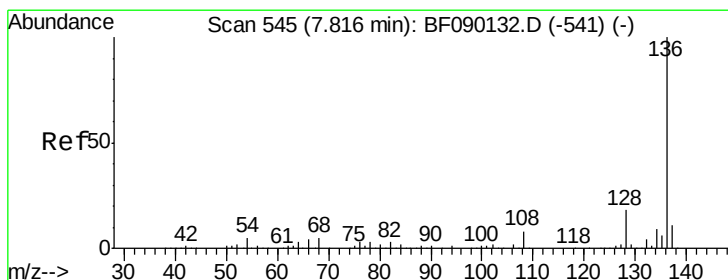
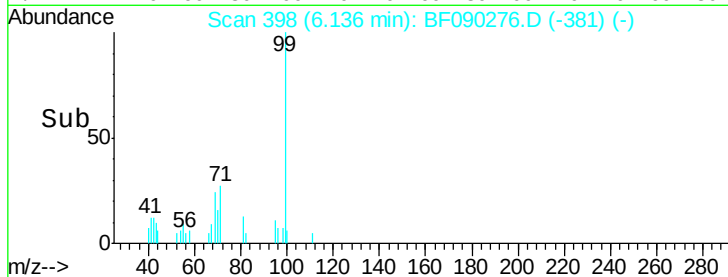
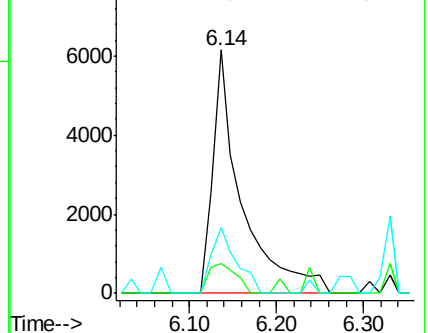
71 27.2 23.0 34.6



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.76 min Scan# 540

Delta R.T. -0.01 min

Lab File: BF090276.D

Acq: 28 Sep 2016 12:49

Tgt Ion: 136 Resp: 530978

Ion Ratio Lower Upper

136 100

137 11.3 9.0 13.4

54 8.6 6.4 9.6

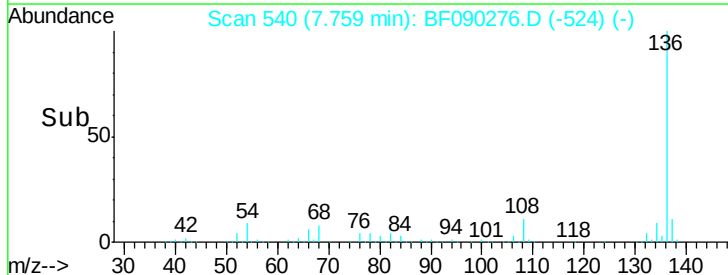
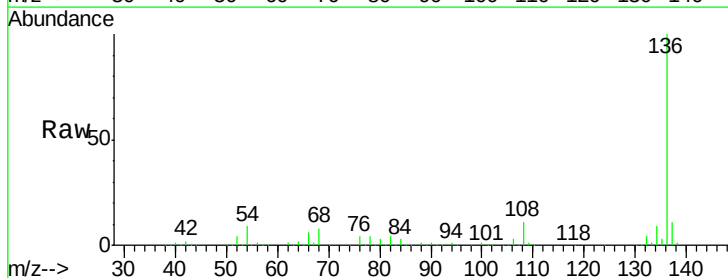
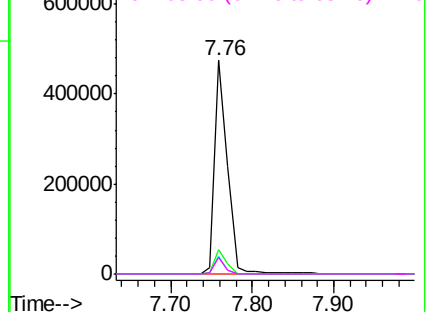
68 8.0 6.3 9.5

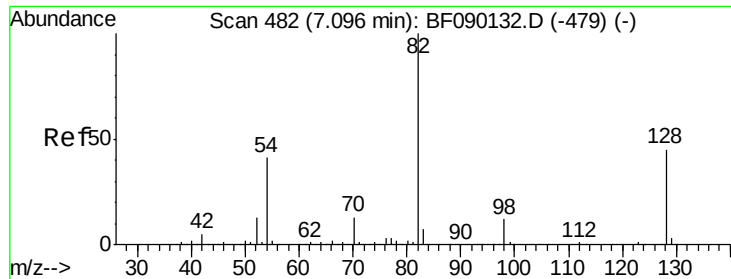
Abundance Ion 136.00 (135.70 to 136.70): E

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

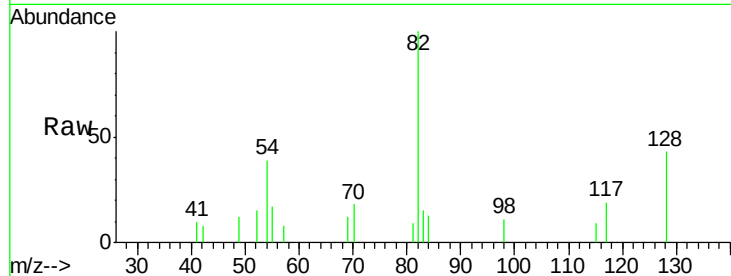




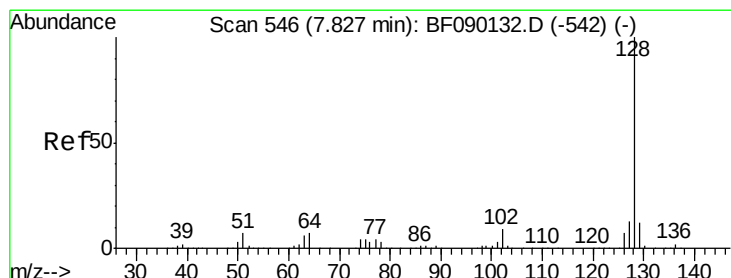
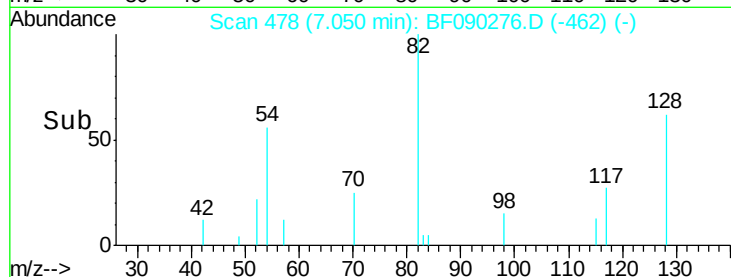
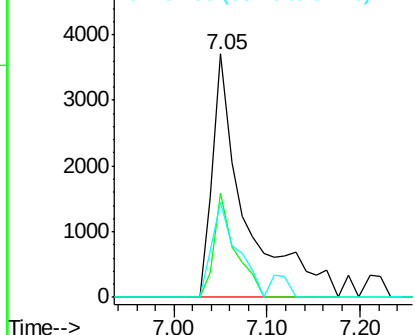
#23
 Nitrobenzene-d5
 Concen: 0.99 ng
 RT: 7.05 min Scan# 478
 Delta R.T. -0.01 min
 Lab File: BF090276.D
 Acq: 28 Sep 2016 12:49

Instrument :
 BNA_F
 ClientSampleId :
 S-3-1-LOC-3(0-5)DL

Tot Ion	82	Resp	9068
Ion Ratio	Lower	Upper	
82	100		
128	42.9	37.5	56.3
54	39.3	31.9	47.9

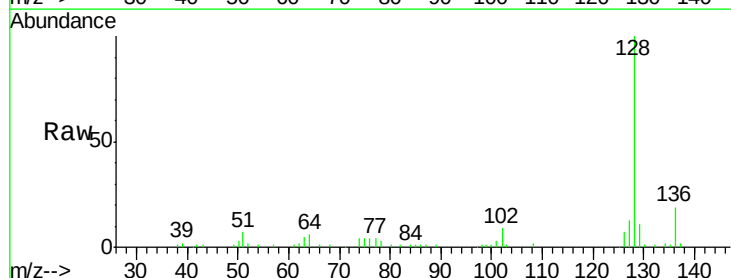


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

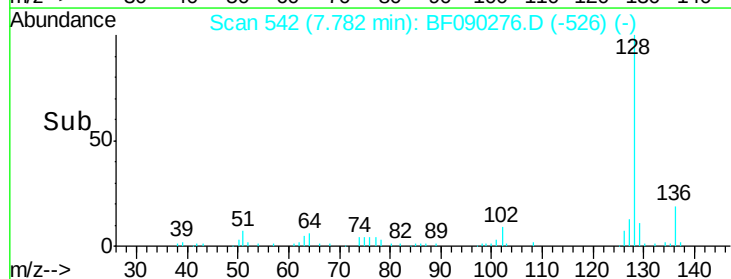
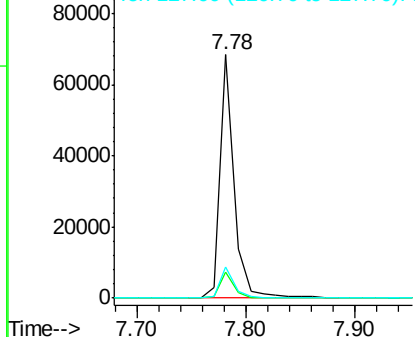


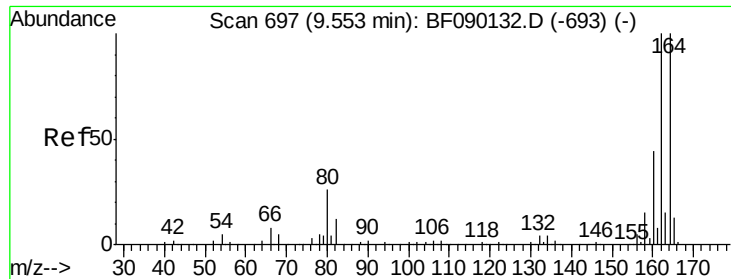
#31
 Naphthalene
 Concen: 2.45 ng
 RT: 7.78 min Scan# 542
 Delta R.T. -0.01 min
 Lab File: BF090276.D
 Acq: 28 Sep 2016 12:49

Tgt Ion	128	Resp	62046
Ion Ratio	Lower	Upper	
128	100		
129	10.8	9.3	13.9
127	12.8	10.8	16.2



Abundance Ion 128.00 (127.70 to 128.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 127.00 (126.70 to 127.70): E

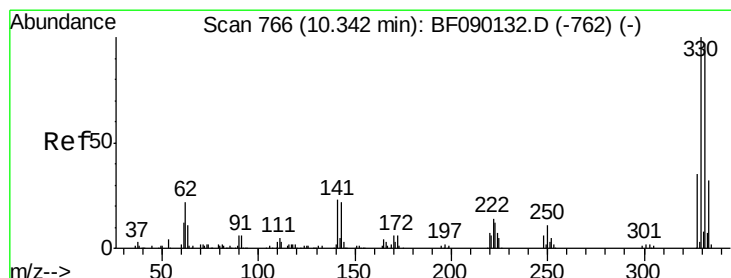
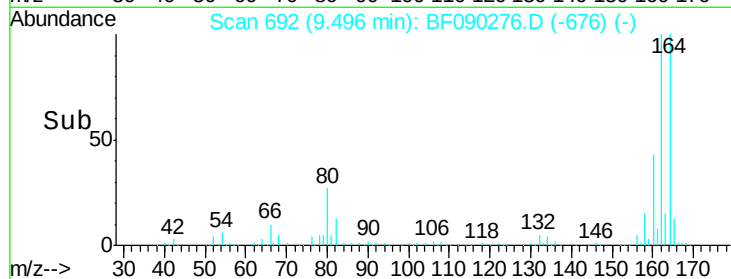
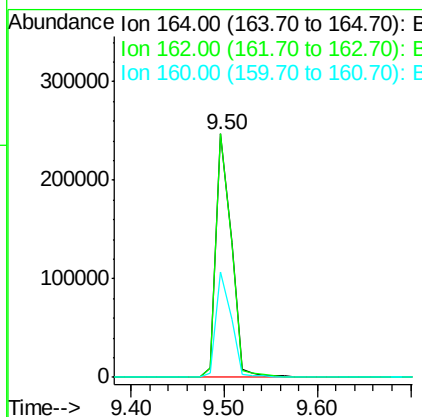
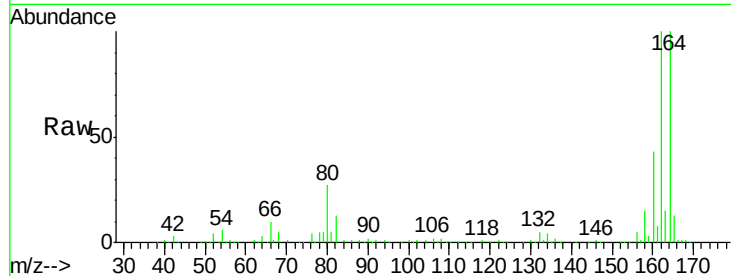




#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.50 min Scan# 692
 Delta R.T. -0.01 min
 Lab File: BF090276.D
 Acq: 28 Sep 2016 12:49

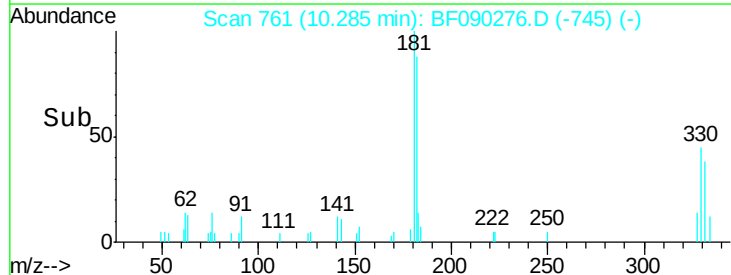
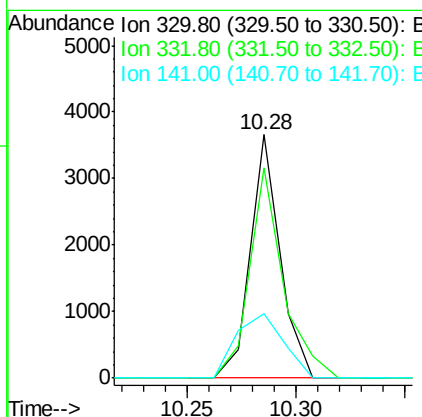
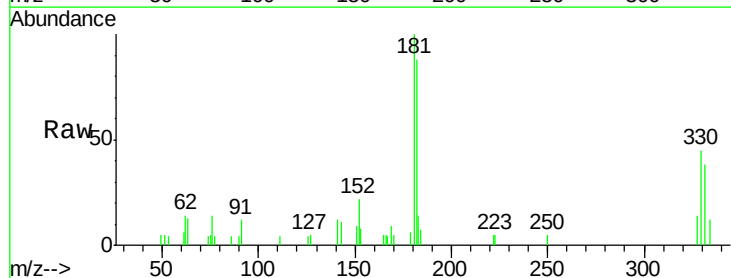
Instrument :
 BNA_F
 ClientSampleId :
 S-3-1-LOC-3(0-5)DL

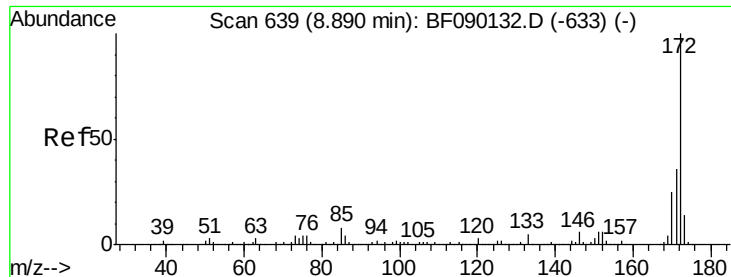
Tot Ion:164 Resp: 282379
 Ion Ratio Lower Upper
 164 100
 162 100.2 81.4 122.2
 160 43.4 36.6 54.8



#41
 2,4,6-Tribromophenol
 Concen: 1.43 ng
 RT: 10.28 min Scan# 761
 Delta R.T. -0.01 min
 Lab File: BF090276.D
 Acq: 28 Sep 2016 12:49

Tgt Ion:330 Resp: 3468
 Ion Ratio Lower Upper
 330 100
 332 97.6 78.1 117.1
 141 42.4 23.9 35.9#

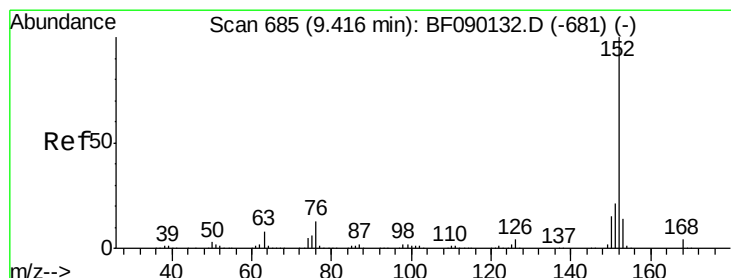
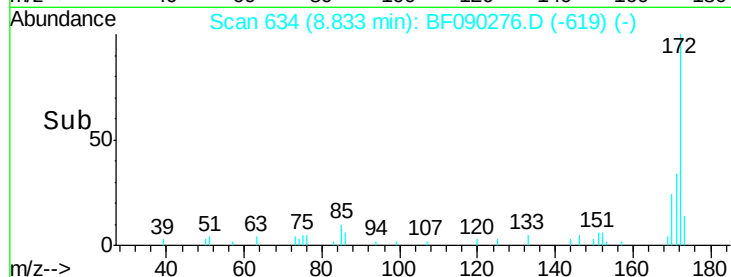
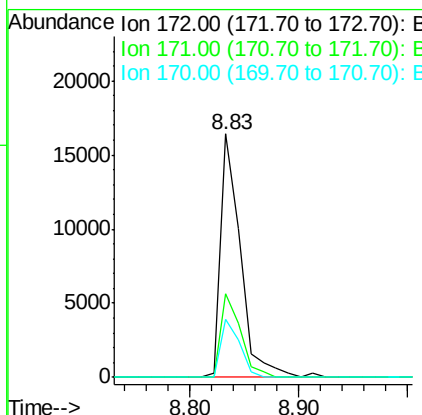
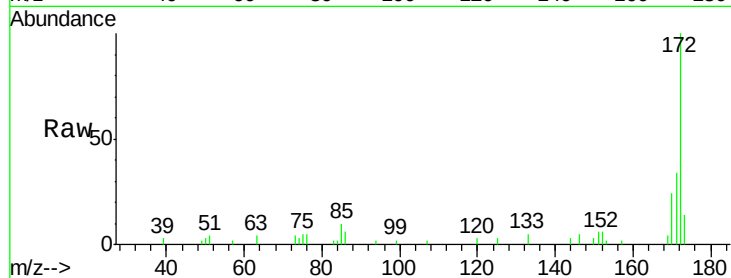




#44
2-Fluorobiphenyl
Concen: 1.46 ng
RT: 8.83 min Scan# 634
Delta R.T. -0.02 min
Lab File: BF090276.D
Acq: 28 Sep 2016 12:49

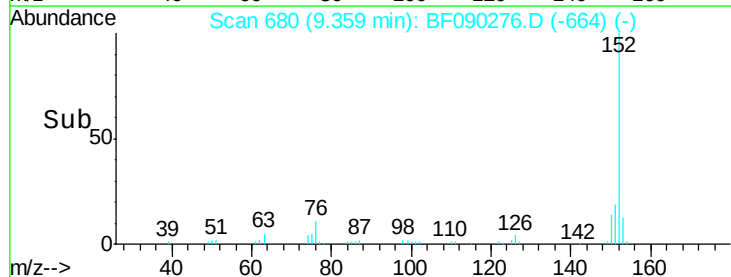
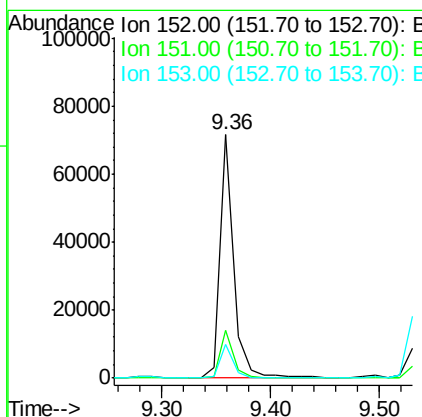
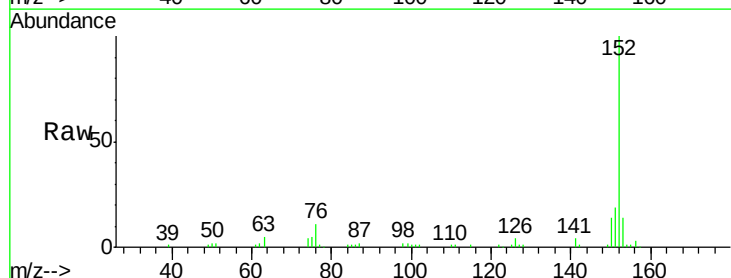
Instrument :
BNA_F
ClientSampleId :
S-3-1-LOC-3(0-5)DL

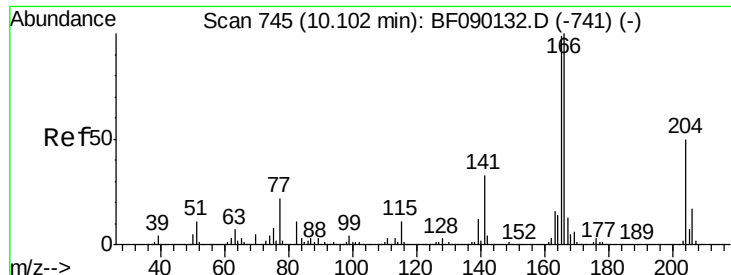
Tot Ion:172 Resp: 20960
Ion Ratio Lower Upper
172 100
171 34.1 29.2 43.8
170 23.6 19.8 29.8



#48
Acenaphthylene
Concen: 2.62 ng
RT: 9.36 min Scan# 680
Delta R.T. -0.01 min
Lab File: BF090276.D
Acq: 28 Sep 2016 12:49

Tgt Ion:152 Resp: 63365
Ion Ratio Lower Upper
152 100
151 19.4 16.5 24.7
153 13.8 10.6 15.8

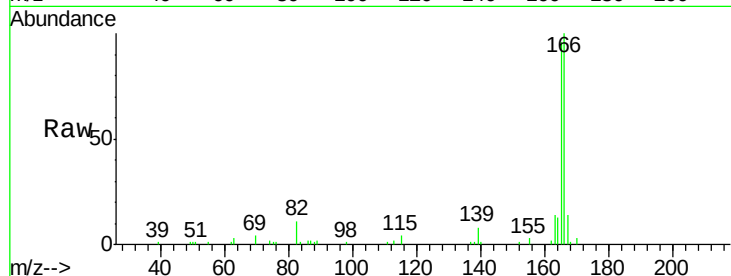




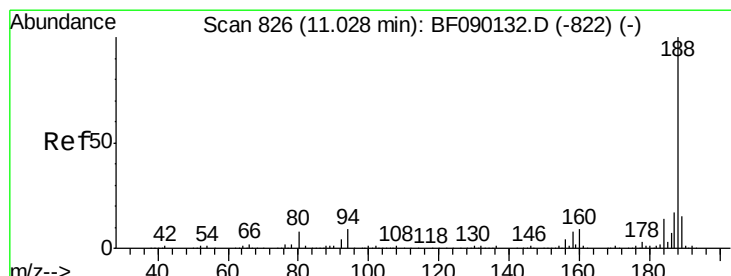
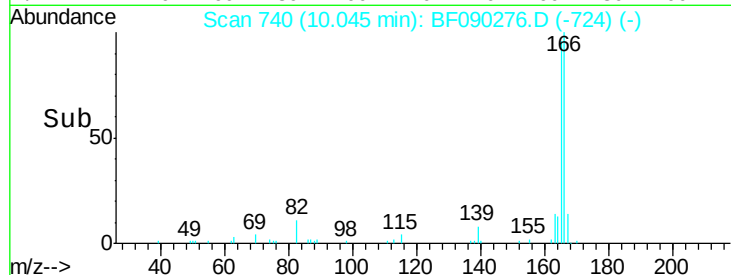
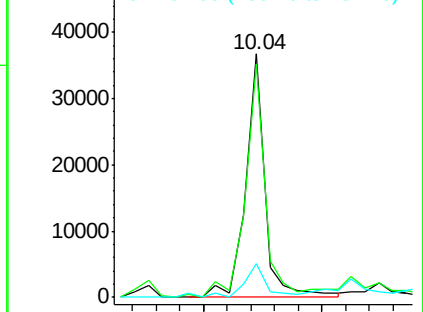
#57
Fluorene
 Concen: 2.93 ng
 RT: 10.04 min Scan# 740
 Delta R.T. -0.01 min
 Lab File: BF090276.D
 Acq: 28 Sep 2016 12:49

Instrument :
 BNA_F
 ClientSampleId :
 S-3-1-LOC-3(0-5)DL

Tot Ion:166 Resp: 41735
 Ion Ratio Lower Upper
 166 100
 165 95.7 78.5 117.7
 167 13.6 11.2 16.8

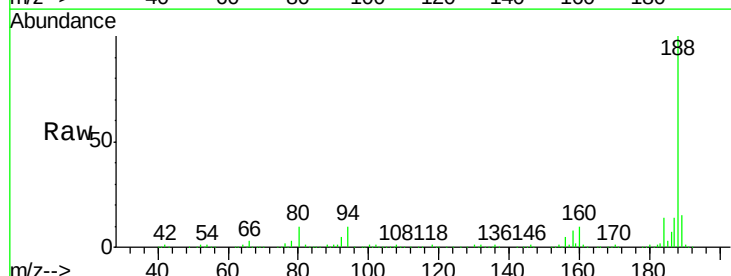


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

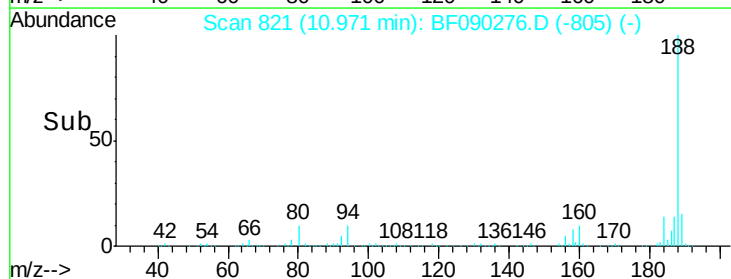
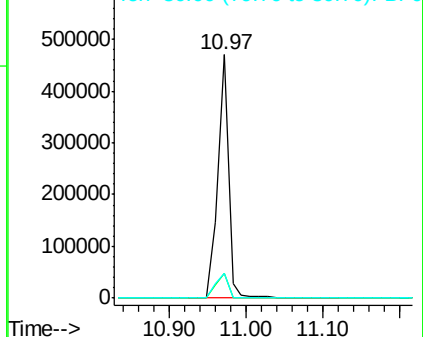


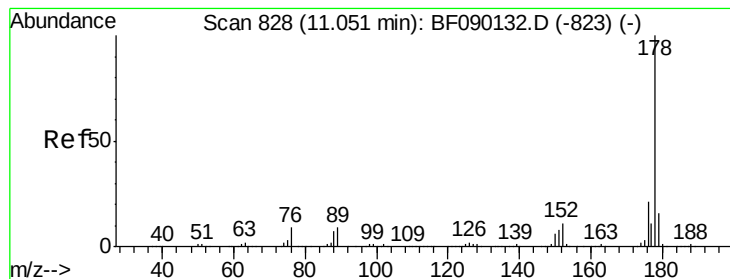
#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 10.97 min Scan# 821
 Delta R.T. -0.01 min
 Lab File: BF090276.D
 Acq: 28 Sep 2016 12:49

Tgt Ion:188 Resp: 458618
 Ion Ratio Lower Upper
 188 100
 94 9.9 10.5 15.7#
 80 9.9 11.2 16.8#



Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 22.23 ng

RT: 10.99 min Scan# 823

Delta R.T. -0.01 min

Lab File: BF090276.D

Acq: 28 Sep 2016 12:49

Instrument :

BNA_F

ClientSampleId :

S-3-1-LOC-3(0-5)DL

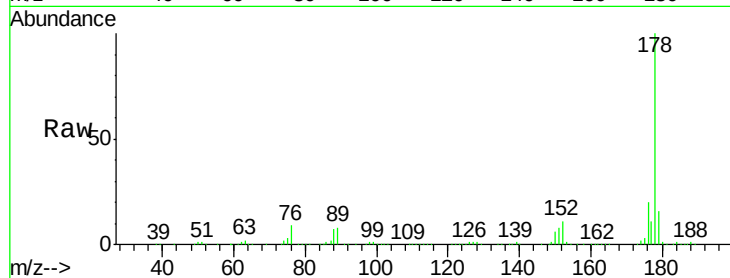
Tot Ion:178 Resp: 476819

Ion Ratio Lower Upper

178 100

176 19.8 15.9 23.9

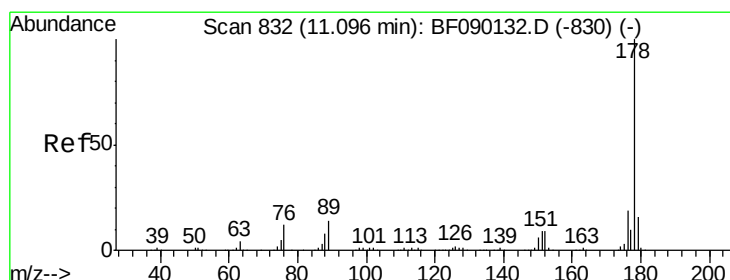
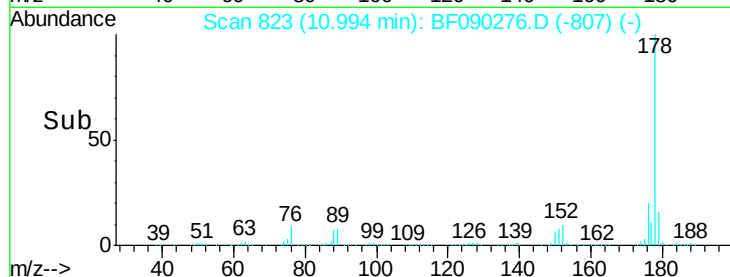
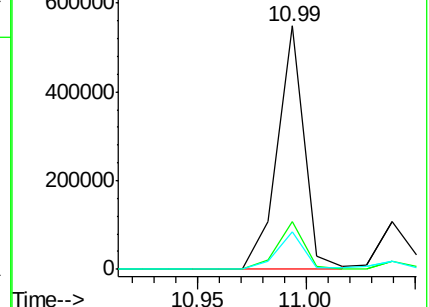
179 15.7 12.9 19.3



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



#71

Anthracene

Concen: 5.09 ng

RT: 11.04 min Scan# 827

Delta R.T. -0.02 min

Lab File: BF090276.D

Acq: 28 Sep 2016 12:49

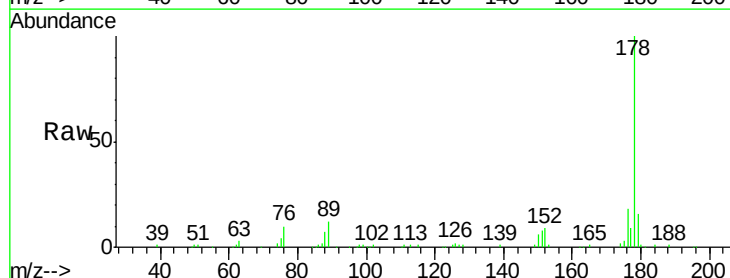
Tgt Ion:178 Resp: 114552

Ion Ratio Lower Upper

178 100

176 18.3 15.8 23.6

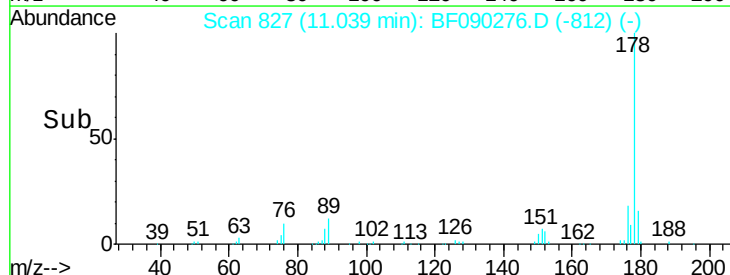
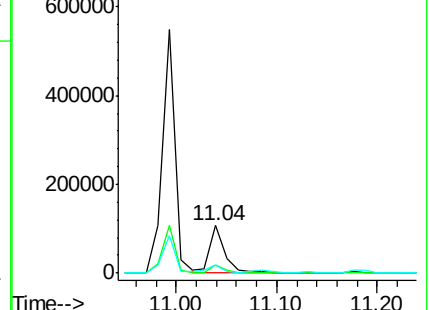
179 15.8 12.6 19.0

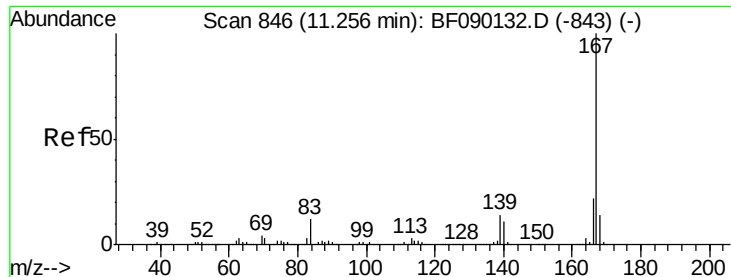


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.86 ng

RT: 11.21 min Scan# 842

Delta R.T. -0.01 min

Lab File: BF090276.D

Acq: 28 Sep 2016 12:49

Instrument :

BNA_F

ClientSampleId :

S-3-1-LOC-3(0-5)DL

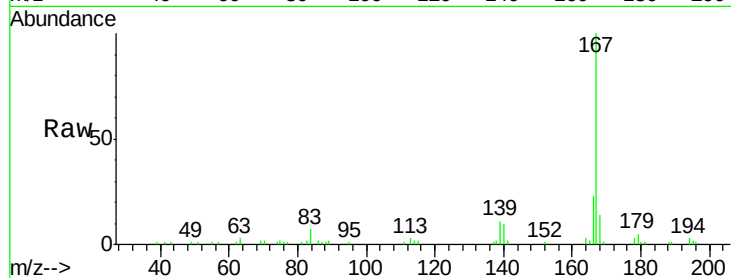
Tot Ion:167 Resp: 67908

Ion Ratio Lower Upper

167 100

166 22.8 18.0 27.0

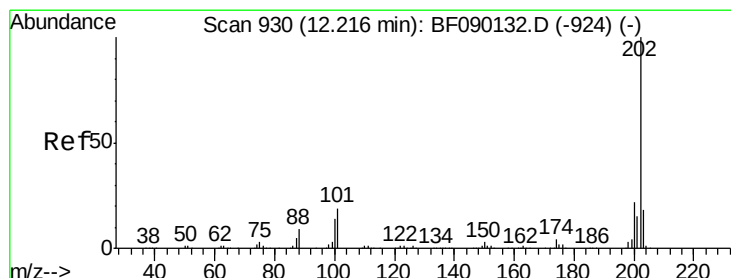
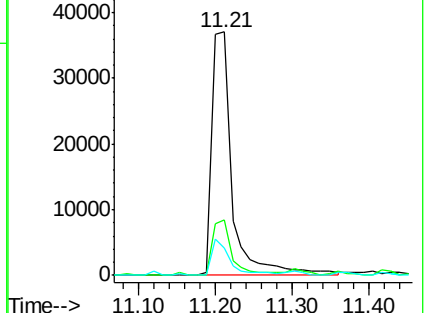
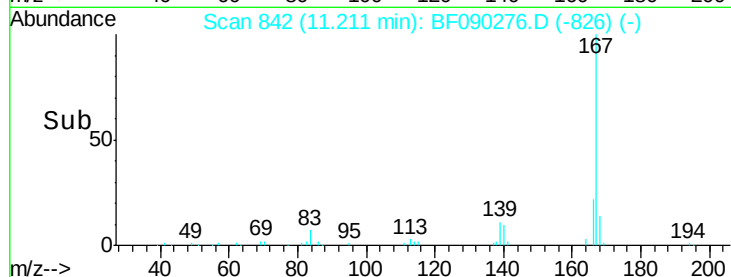
139 11.4 10.4 15.6



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 25.60 ng

RT: 12.17 min Scan# 926

Delta R.T. -0.01 min

Lab File: BF090276.D

Acq: 28 Sep 2016 12:49

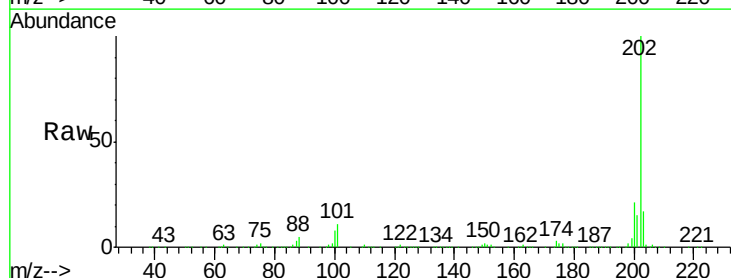
Tgt Ion:202 Resp: 589278

Ion Ratio Lower Upper

202 100

101 11.2 0.0 36.1

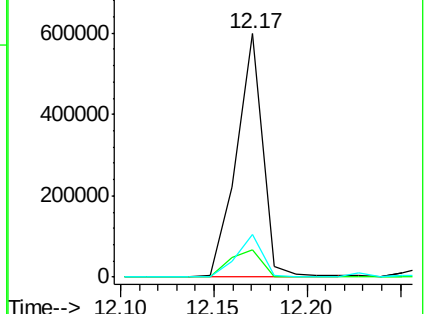
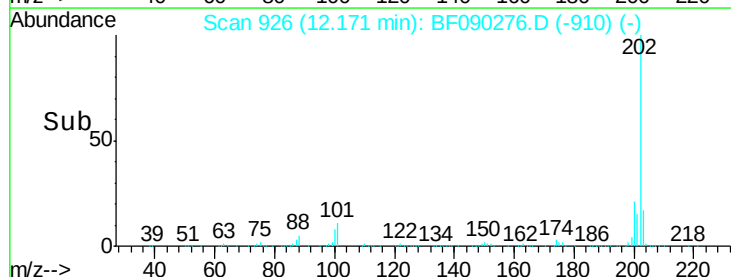
203 17.3 0.0 38.2

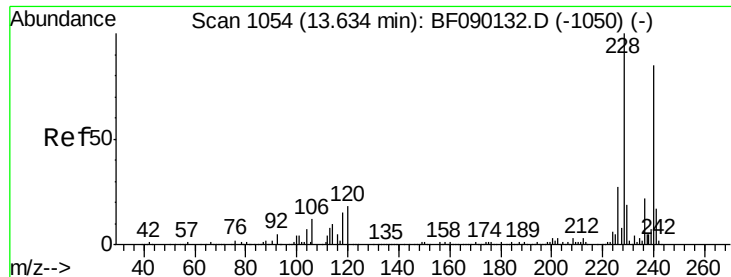


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.58 min Scan# 1049

Delta R.T. -0.02 min

Lab File: BF090276.D

Acq: 28 Sep 2016 12:49

Instrument :

BNA_F

ClientSampleId :

S-3-1-LOC-3(0-5)DL

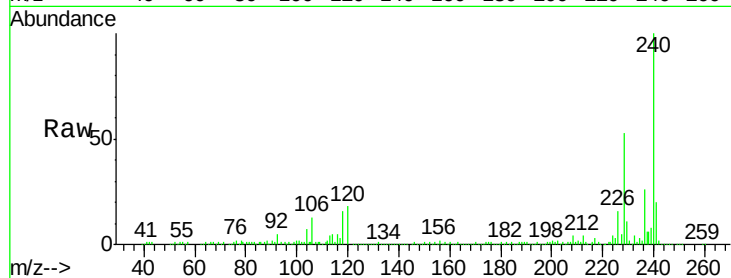
Tot Ion:240 Resp: 282332

Ion Ratio Lower Upper

240 100

120 18.1 10.6 16.0#

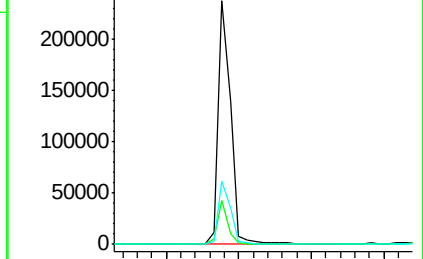
236 26.0 21.6 32.4



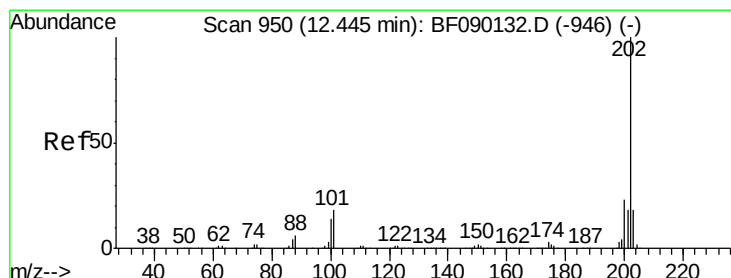
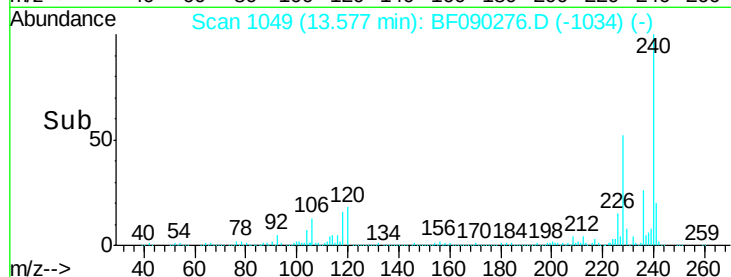
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time-->



#77

Pyrene

Concen: 22.49 ng

RT: 12.39 min Scan# 945

Delta R.T. -0.01 min

Lab File: BF090276.D

Acq: 28 Sep 2016 12:49

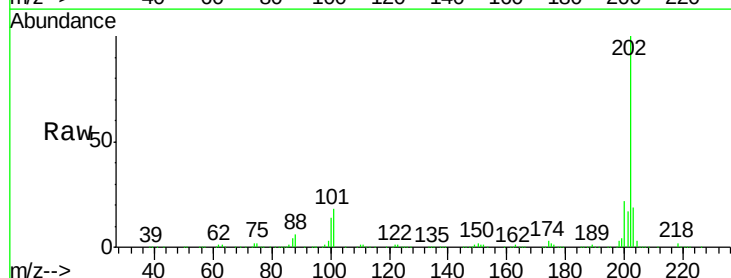
Tgt Ion:202 Resp: 434496

Ion Ratio Lower Upper

202 100

200 21.7 17.9 26.9

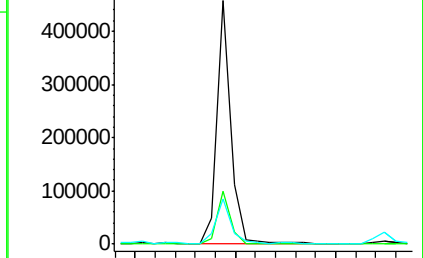
203 18.7 14.2 21.4



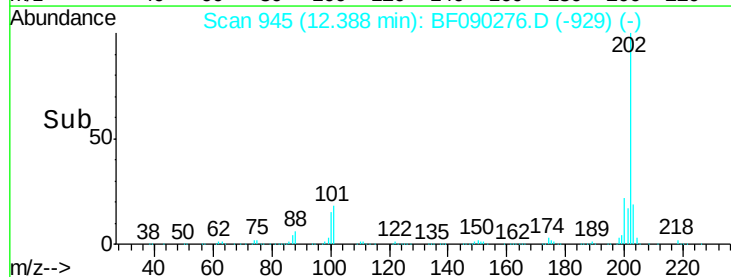
Abundance Ion 202.00 (201.70 to 202.70): E

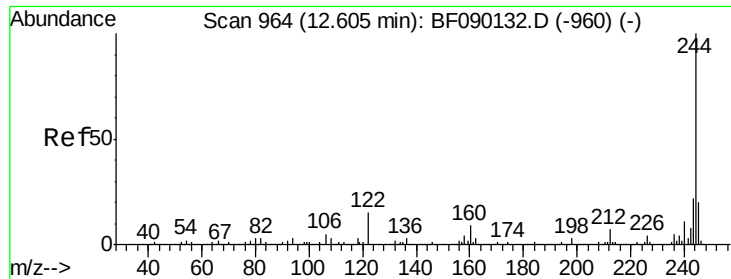
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->





#78

Terphenyl-d14

Concen: 1.63 ng

RT: 12.55 min Scan# 959

Delta R.T. -0.01 min

Lab File: BF090276.D

Acq: 28 Sep 2016 12:49

Instrument :

BNA_F

ClientSampleId :

S-3-1-LOC-3(0-5)DL

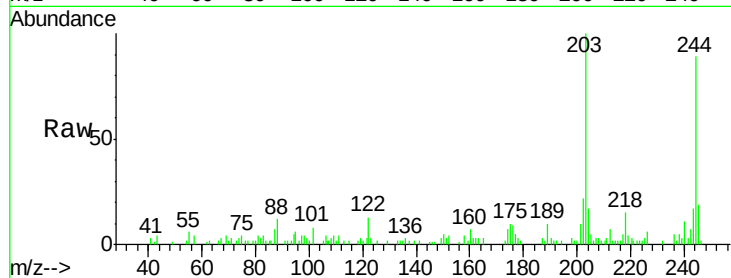
Tot Ion:244 Resp: 18099

Ion Ratio Lower Upper

244 100

212 7.3 5.8 8.8

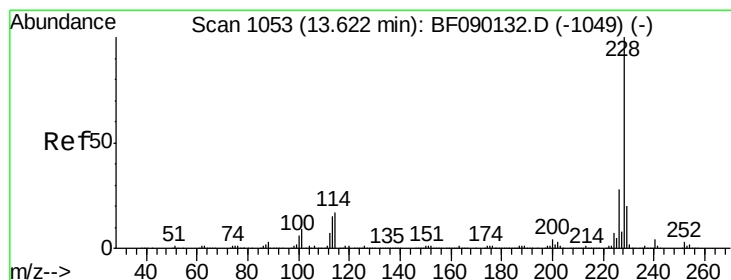
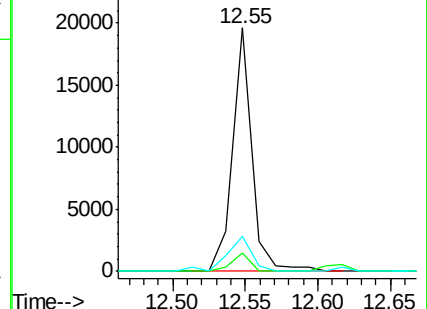
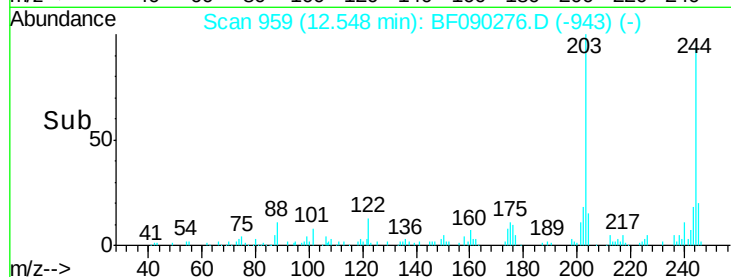
122 14.2 9.4 14.0#



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: 14.43 ng

RT: 13.57 min Scan# 1048

Delta R.T. -0.02 min

Lab File: BF090276.D

Acq: 28 Sep 2016 12:49

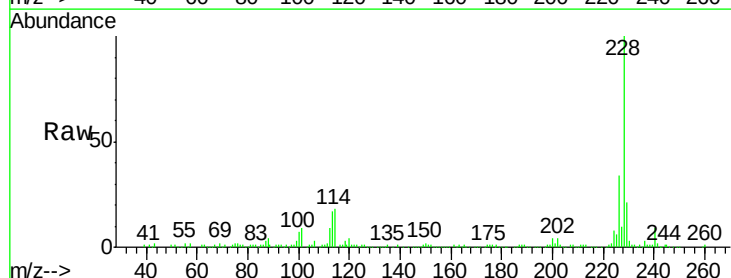
Tgt Ion:228 Resp: 219239

Ion Ratio Lower Upper

228 100

226 33.6 22.0 33.0#

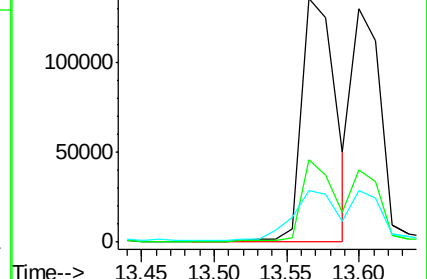
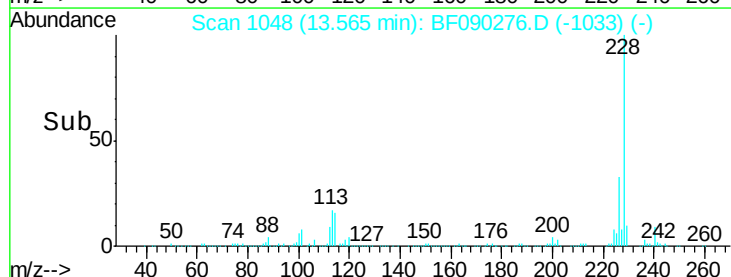
229 21.2 16.2 24.2

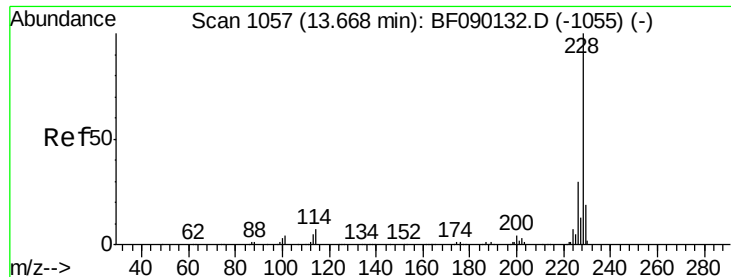


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 12.15 ng/mL

RT: 13.60 min Scan# 1051

Delta R.T. -0.02 min

Lab File: BF090276.D

Acq: 28 Sep 2016 12:49

Instrument :

BNA_F

ClientSampleId :

S-3-1-LOC-3(0-5)DL

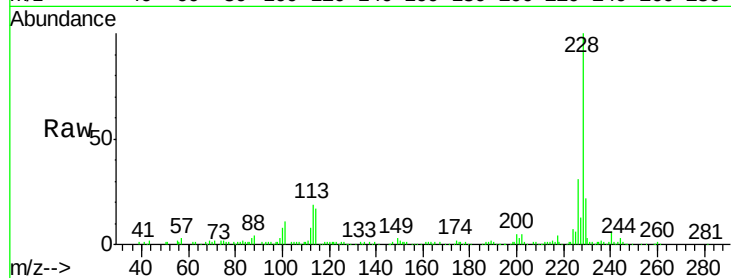
Tot Ion:228 Resp: 179827

Ion Ratio Lower Upper

228 100

226 30.6 24.6 37.0

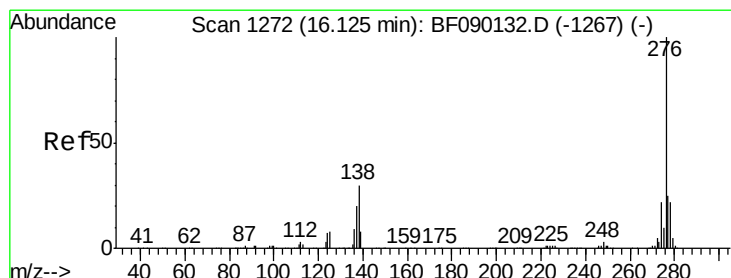
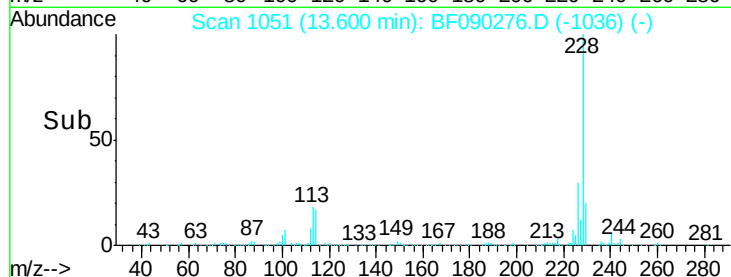
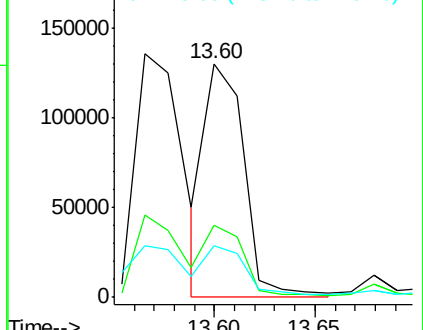
229 21.9 16.2 24.4



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: 10.47 ng/mL

RT: 16.03 min Scan# 1264

Delta R.T. -0.02 min

Lab File: BF090276.D

Acq: 28 Sep 2016 12:49

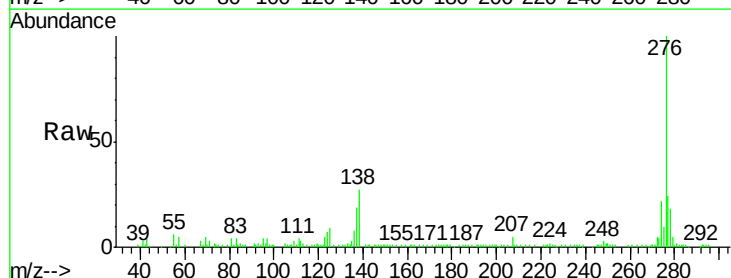
Tgt Ion:276 Resp: 125258

Ion Ratio Lower Upper

276 100

138 23.7 25.9 38.9#

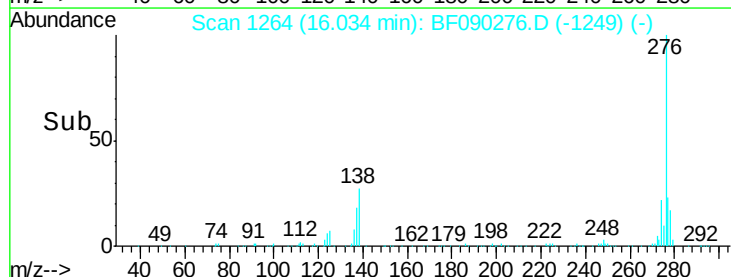
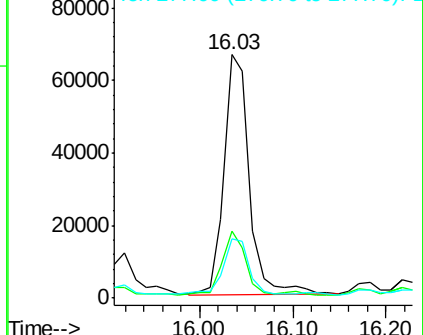
277 22.9 19.9 29.9

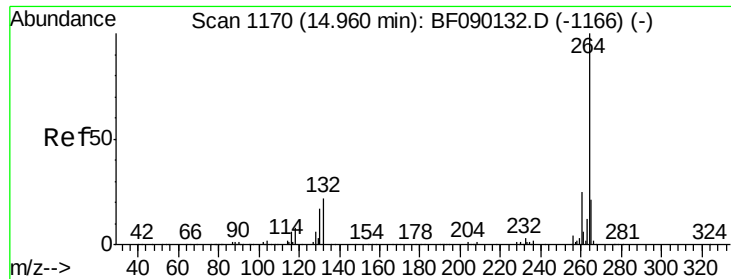


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

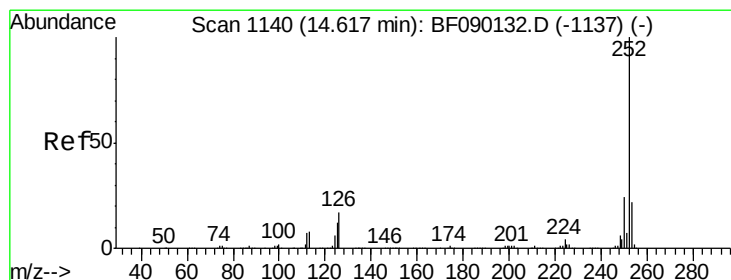
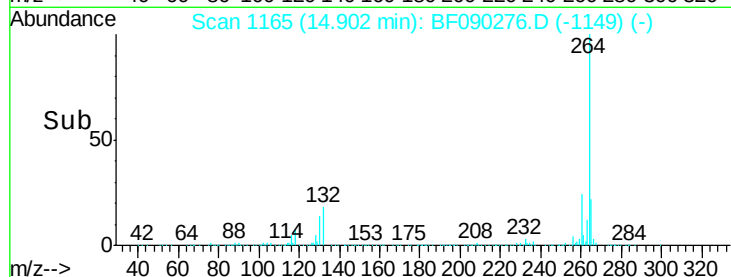
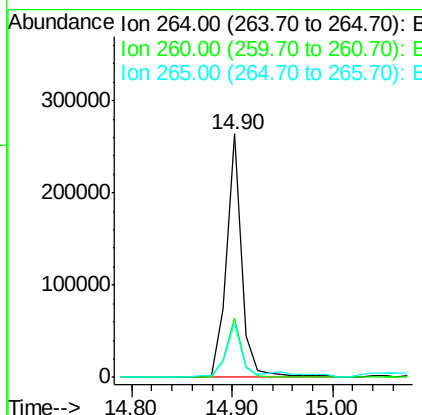
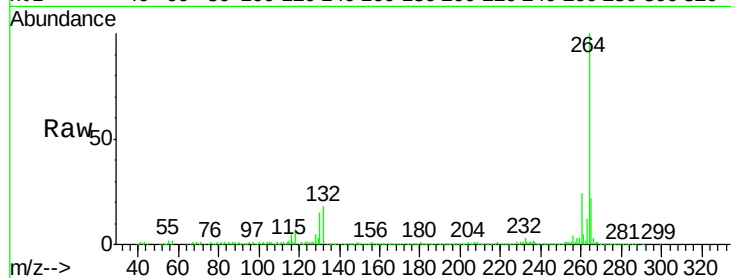




#86
Pervlene-d12
Concen: 20.00 ng
RT: 14.90 min Scan# 1165
Delta R.T. -0.01 min
Lab File: BF090276.D
Acq: 28 Sep 2016 12:49

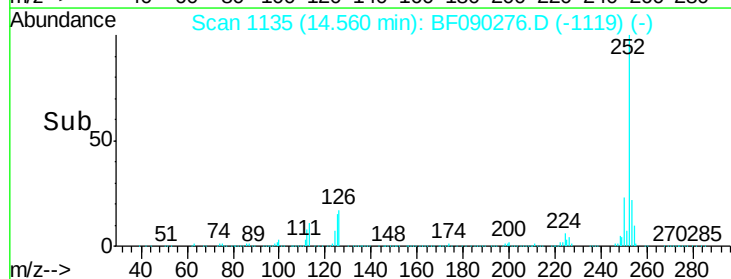
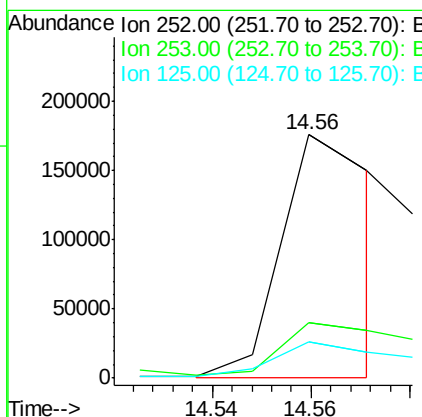
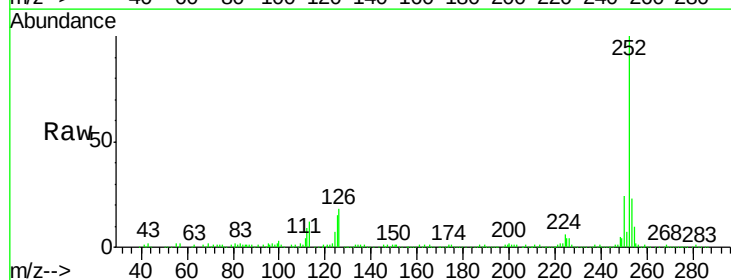
Instrument :
BNA_F
ClientSampleId :
S-3-1-LOC-3(0-5)DL

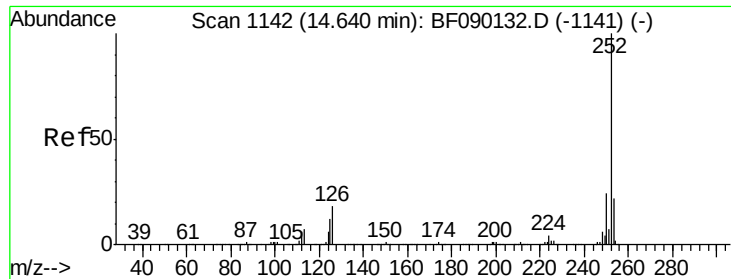
Tot Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.5	29.3
265	22.2	17.0	25.4



#87
Benzo(b)fluoranthene
Concen: 15.14 ng m
RT: 14.56 min Scan# 1135
Delta R.T. -0.01 min
Lab File: BF090276.D
Acq: 28 Sep 2016 12:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.9	26.9
125	15.1	12.7	19.1





#88

Benzo(k)fluoranthene

Concen: 7.23 ng

RT: 14.57 min Scan# 1136

Delta R.T. -0.02 min

Lab File: BF090276.D

Acq: 28 Sep 2016 12:49

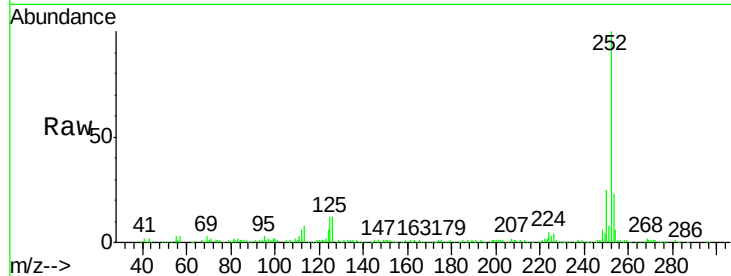
Instrument :

BNA_F

ClientSampleId :

S-3-1-LOC-3(0-5)DL

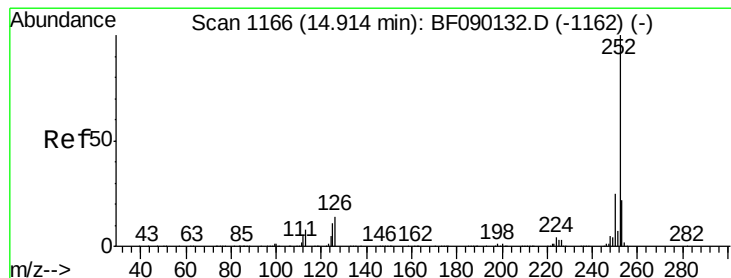
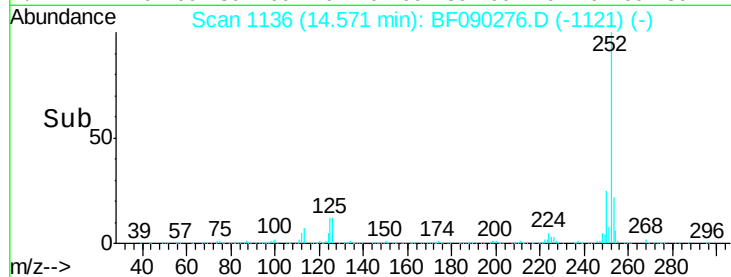
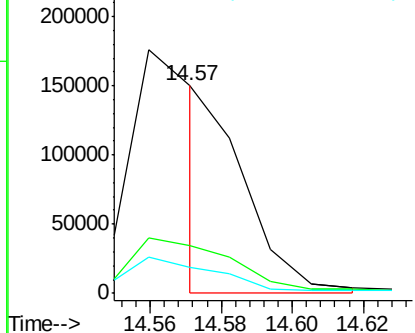
Tot Ion:252	Resp:	105514
Ion Ratio	Lower	Upper
252	100	
253	23.0	17.8 26.8
125	12.5	7.8 11.6#



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: 12.00 ng

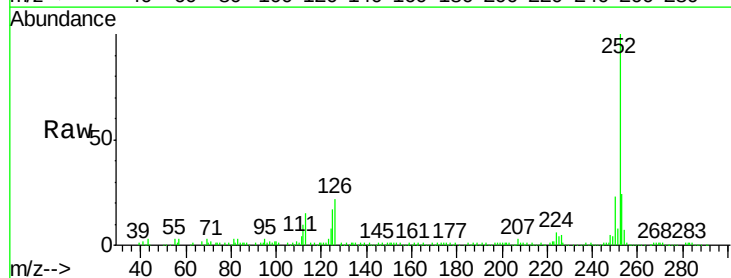
RT: 14.85 min Scan# 1160

Delta R.T. -0.02 min

Lab File: BF090276.D

Acq: 28 Sep 2016 12:49

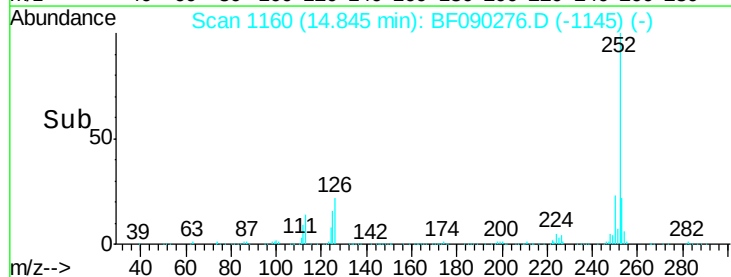
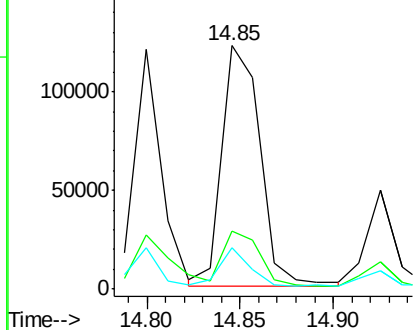
Tgt Ion:252	Resp:	175592
Ion Ratio	Lower	Upper
252	100	
253	23.6	17.4 26.0
125	16.9	7.7 11.5#

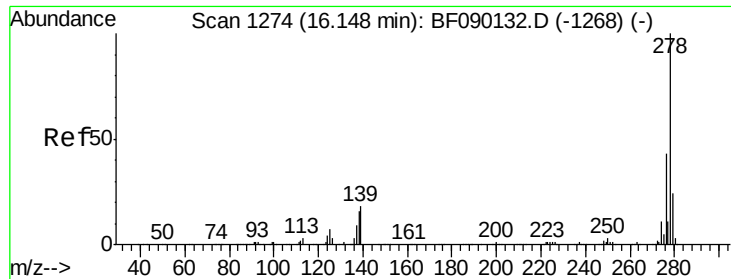


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 3.17 ng/mL

RT: 16.05 min Scan# 1265

Delta R.T. -0.03 min

Lab File: BF090276.D

Acq: 28 Sep 2016 12:49

Instrument :

BNA_F

ClientSampleId :

S-3-1-LOC-3(0-5)DL

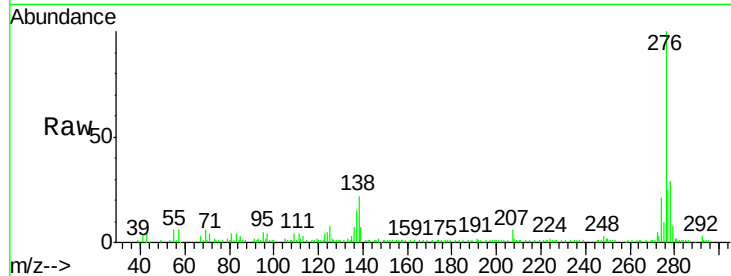
Tot Ion:278 Resp: 36204

Ion Ratio Lower Upper

278 100

139 23.5 14.6 21.8#

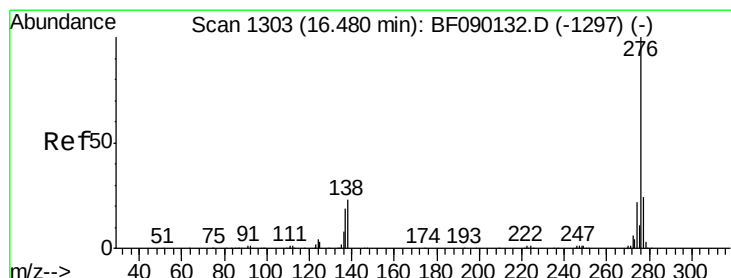
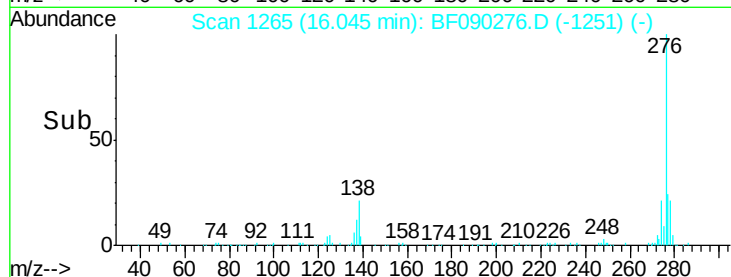
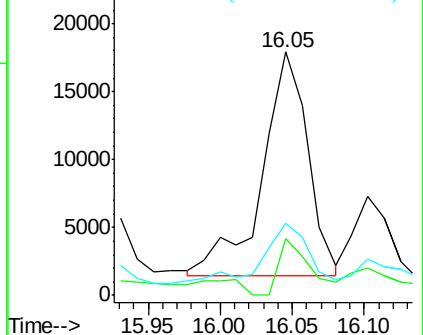
279 29.5 18.8 28.2#



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: 9.68 ng/mL

RT: 16.38 min Scan# 1294

Delta R.T. -0.02 min

Lab File: BF090276.D

Acq: 28 Sep 2016 12:49

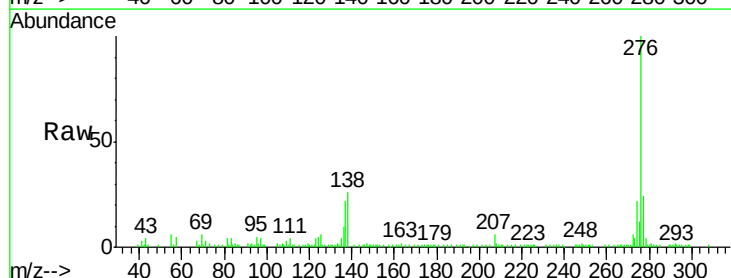
Tgt Ion:276 Resp: 108121

Ion Ratio Lower Upper

276 100

277 23.9 18.9 28.3

138 25.6 23.3 34.9



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

