

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090817\
 Data File : BF098366.D
 Acq On : 8 Sep 2017 22:30
 Operator : SJ/JU
 Sample : I5113-05 10X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RL-3-0-11.75

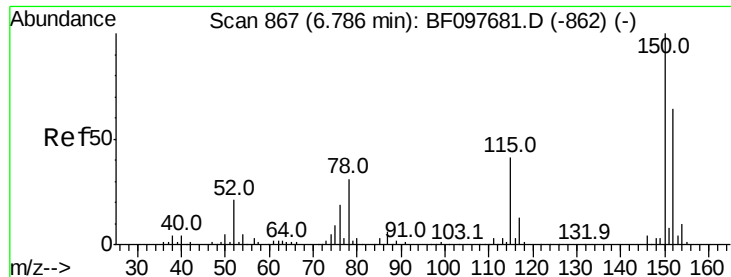
Quant Time: Sep 09 00:01:55 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 05 17:28:20 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	94610	20.00	ng	-0.02
21) Naphthalene-d8	7.96	136	326364	20.00	ng	-0.02
38) Acenaphthene-d10	9.72	164	119724	20.00	ng	-0.02
63) Phenanthrene-d10	11.20	188	201543	20.00	ng	-0.02
75) Chrysene-d12	13.84	240	221825	20.00	ng	-0.02
86) Perylene-d12	15.24	264	161100	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.29	112	55395	8.91	ng	-0.02
7) Phenol-d6	6.33	99	78337	9.27	ng	-0.02
23) Nitrobenzene-d5	7.25	82	41408	6.89	ng	-0.03
41) 2,4,6-Tribromophenol	10.50	330	8034	7.73	ng	-0.03
44) 2-Fluorobiphenyl	9.04	172	69730	8.56	ng	-0.03
78) Terphenyl-d14	12.78	244	52248	4.91	ng	-0.03

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
25) Isophorone	7.25	82	41407	3.315	ng	# 67
50) 2,6-Dinitrotoluene	9.72	165	15654	8.961	ng	# 31
51) Acenaphthene	9.75	154	30198	3.780	ng	93
55) 4-Nitrophenol	9.92	139	7950	4.422	ng	# 25
56) 2,4-Dinitrotoluene	9.72	165	15654	7.141	ng	# 31
57) Fluorene	10.26	166	32881	3.972	ng	93
70) Phenanthrene	11.23	178	404788	37.691	ng	98
71) Anthracene	11.27	178	110499	10.144	ng	98
72) Carbazole	11.43	167	55540	5.372	ng	94
74) Fluoranthene	12.42	202	519592	46.352	ng	99
77) Pyrene	12.64	202	459193	25.310	ng	98
80) Benzo(a)anthracene	13.83	228	200372	15.071	ng	98
82) Chrysene	13.86	228	168940	12.774	ng	98
85) Indeno(1,2,3-cd)pyrene	16.60	276	55102	5.664	ng	# 91
87) Benzo(b)fluoranthene	14.84	252	240963	23.729	ng	98
88) Benzo(k)fluoranthene	14.84	252	240963	25.257	ng	96
89) Benzo(a)pyrene	15.19	252	124609	13.861	ng	98
91) Benzo(g,h,i)perylene	17.00	276	54800	7.176	ng	93

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

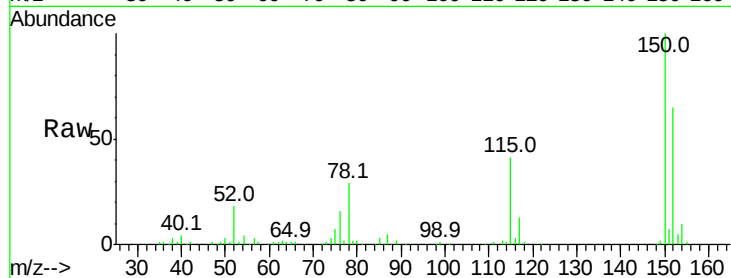


#1

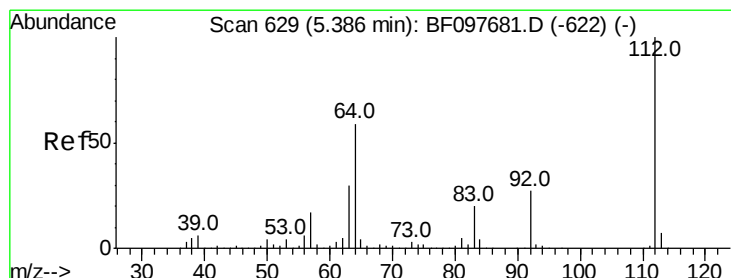
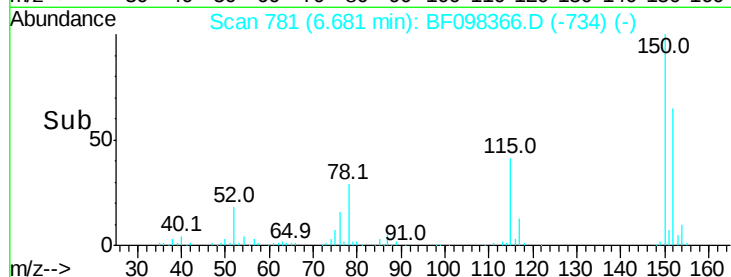
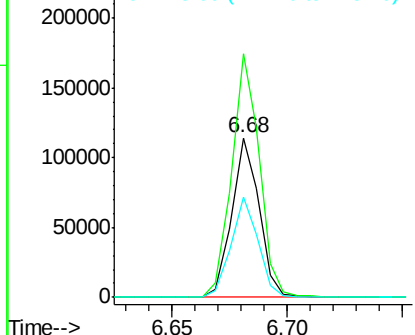
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.68 min Scan# 781
Delta R.T. -0.02 min
Lab File: BF098366.D
Acq: 8 Sep 2017 22:30

Instrument :
BNA_F
ClientSampleId :
RL-3-0-11.75

Tot Ion:152 Resp: 94610
Ion Ratio Lower Upper
152 100
150 153.0 126.2 189.2
115 63.4 52.2 78.2



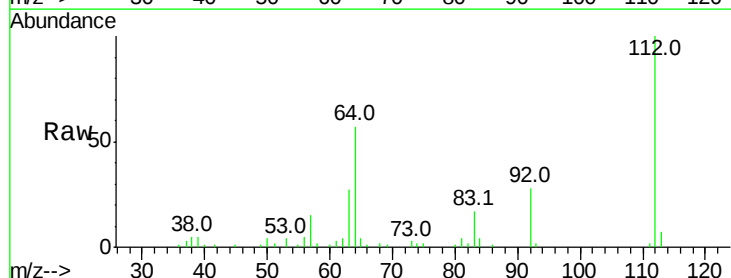
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



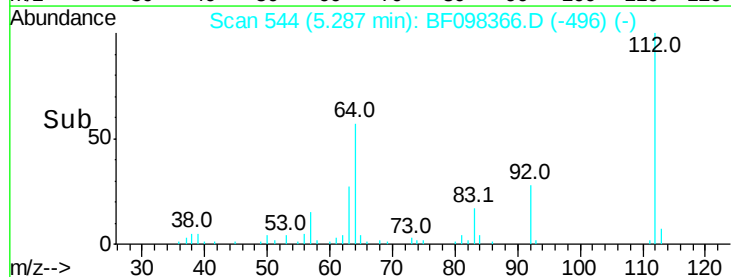
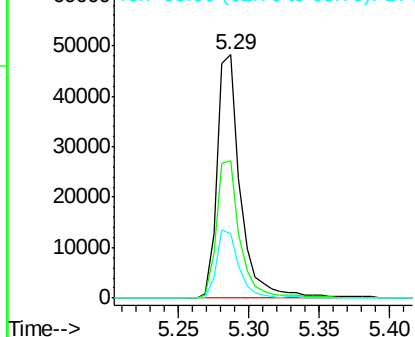
#5

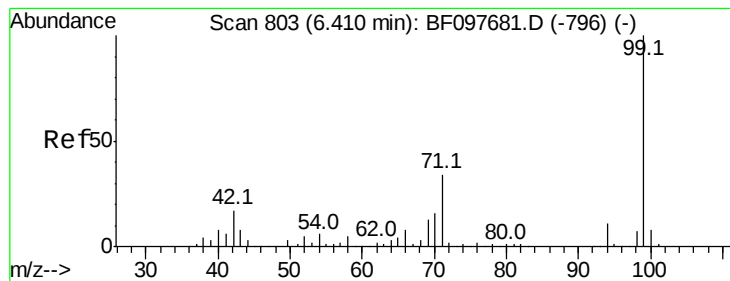
2-Fluorophenol
Concen: 8.906 ng
RT: 5.29 min Scan# 544
Delta R.T. -0.02 min
Lab File: BF098366.D
Acq: 8 Sep 2017 22:30

Tgt Ion:112 Resp: 55395
Ion Ratio Lower Upper
112 100
64 56.6 46.0 69.0
63 26.6 23.4 35.0



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: 9.269 ng

RT: 6.33 min Scan# 721

Delta R.T. -0.02 min

Lab File: BF098366.D

Acq: 8 Sep 2017 22:30

Instrument :

BNA_F

ClientSampleId :

RL-3-0-11.75

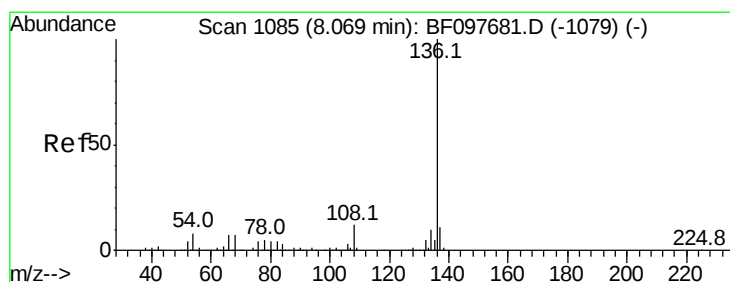
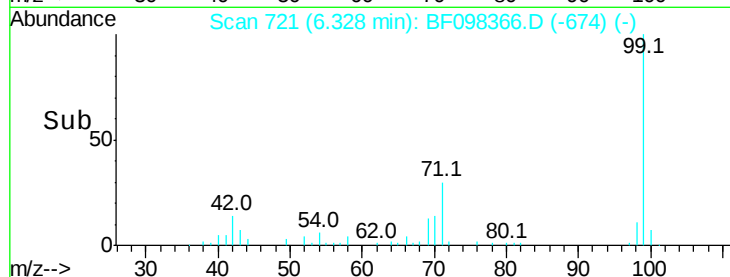
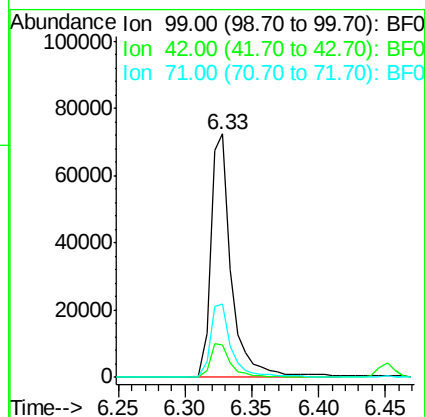
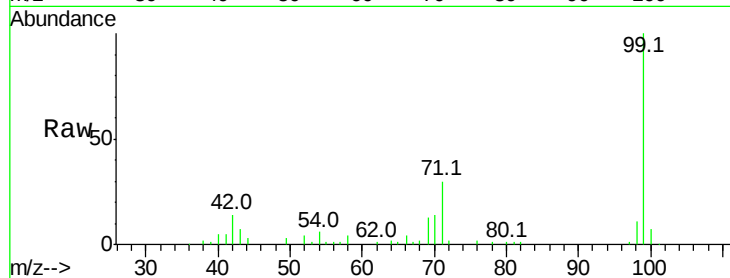
Tot Ion: 99 Resp: 78337

Ion Ratio Lower Upper

99 100

42 13.5 13.5 20.3#

71 30.3 24.5 36.7



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.96 min Scan# 999

Delta R.T. -0.02 min

Lab File: BF098366.D

Acq: 8 Sep 2017 22:30

Tgt Ion: 136 Resp: 326364

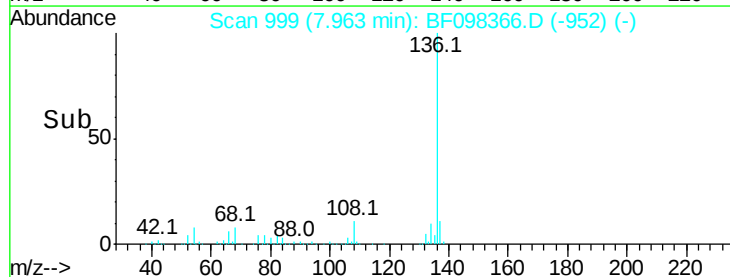
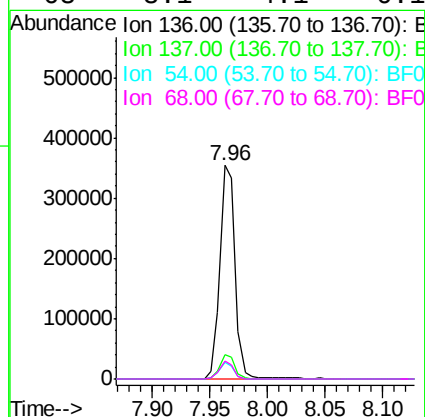
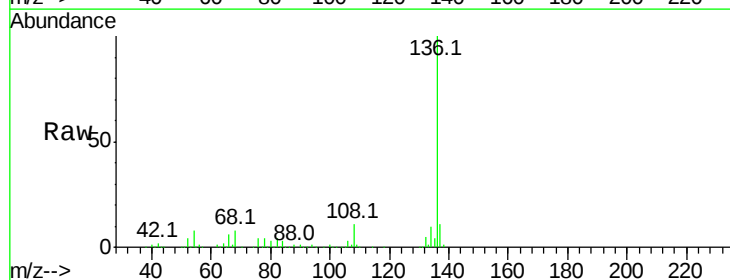
Ion Ratio Lower Upper

136 100

137 11.1 8.5 12.7

54 8.0 4.9 7.3#

68 8.1 4.1 6.1#

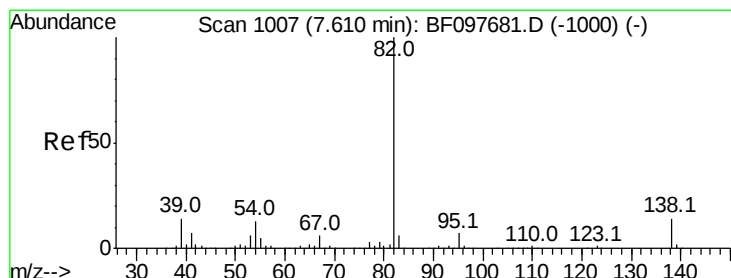
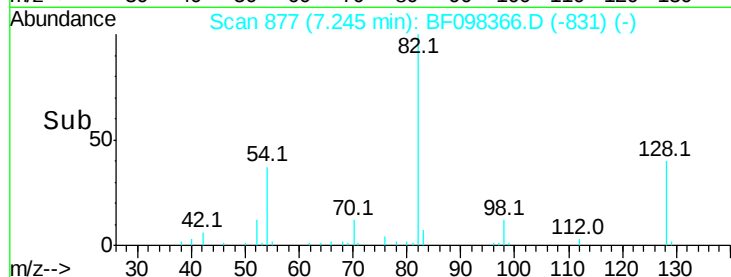
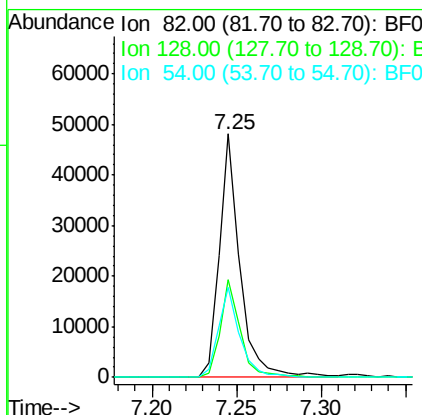
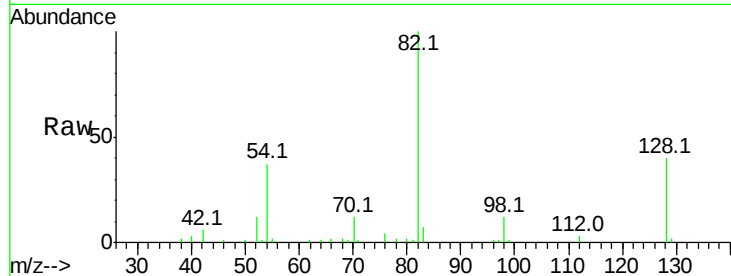




#23
 Nitrobenzene-d5
 Concen: 6.893 ng
 RT: 7.25 min Scan# 877
 Delta R.T. -0.03 min
 Lab File: BF098366.D
 Acq: 8 Sep 2017 22:30

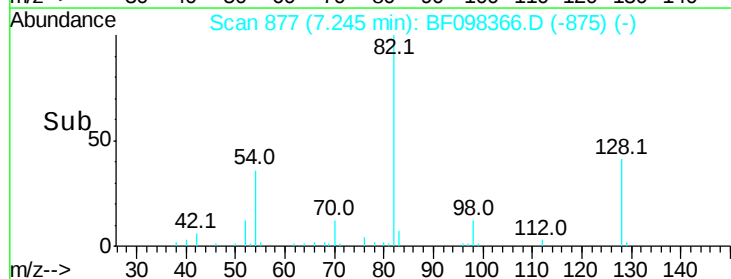
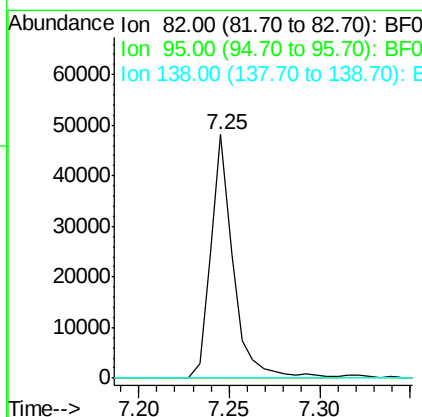
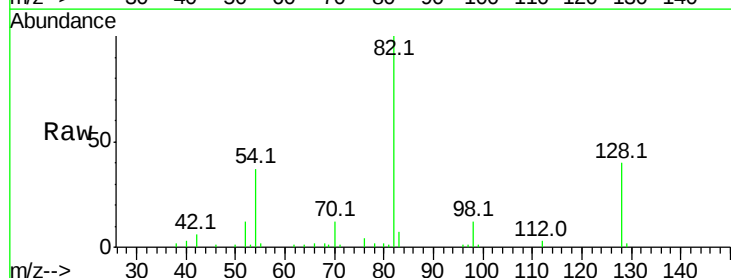
Instrument :
 BNA_F
 ClientSampleId :
 RL-3-0-11.75

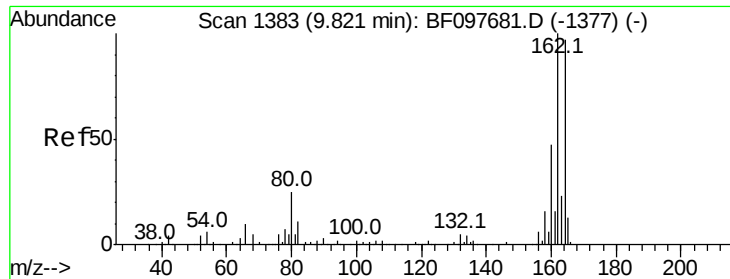
Tot Ion: 82 Resp: 41408
 Ion Ratio Lower Upper
 82 100
 128 40.4 34.0 51.0
 54 37.2 42.2 63.2#



#25
 Isophorone
 Concen: 3.315 ng
 RT: 7.25 min Scan# 877
 Delta R.T. -0.29 min
 Lab File: BF098366.D
 Acq: 8 Sep 2017 22:30

Tgt Ion: 82 Resp: 41407
 Ion Ratio Lower Upper
 82 100
 95 0.0 5.3 7.9#
 138 0.0 13.1 19.7#





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.72 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BF098366.D

Acq: 8 Sep 2017 22:30

Instrument :

BNA_F

ClientSampleId :

RL-3-0-11.75

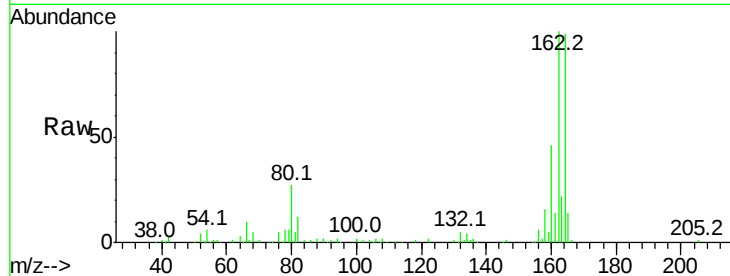
Tot Ion:164 Resp: 119724

Ion Ratio Lower Upper

164 100

162 101.1 82.6 123.8

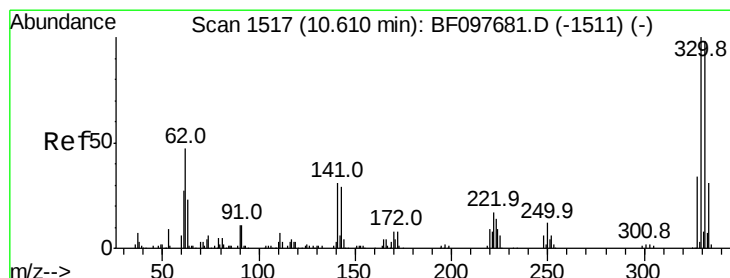
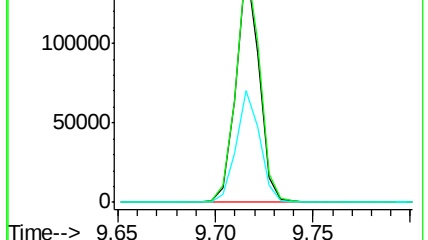
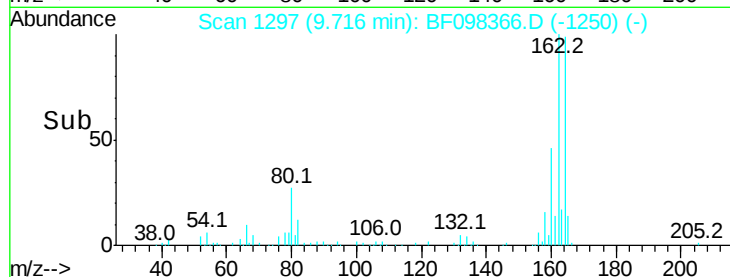
160 46.2 36.2 54.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 7.734 ng

RT: 10.50 min Scan# 1431

Delta R.T. -0.03 min

Lab File: BF098366.D

Acq: 8 Sep 2017 22:30

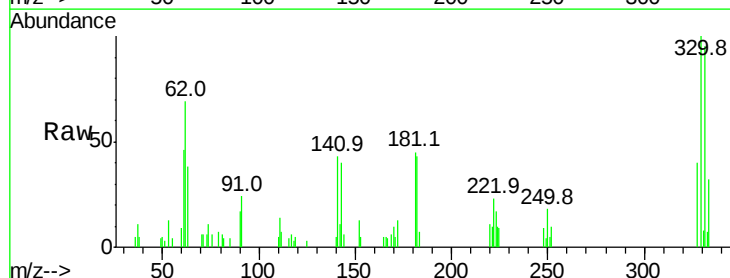
Tgt Ion:330 Resp: 8034

Ion Ratio Lower Upper

330 100

332 94.5 76.6 115.0

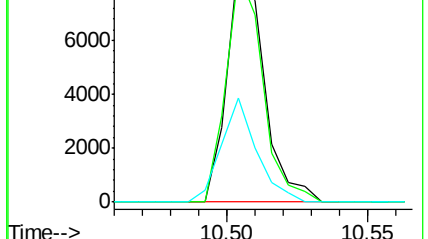
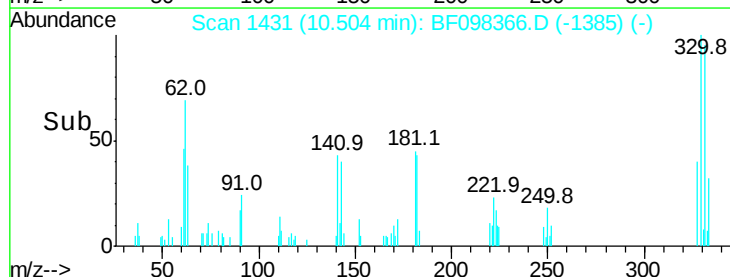
141 41.6 31.4 47.2



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

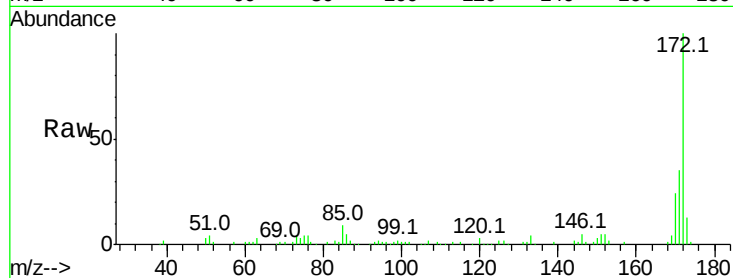




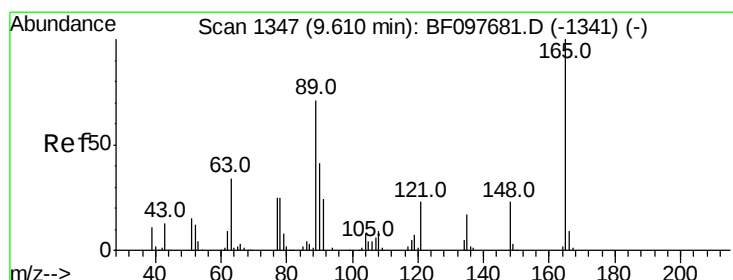
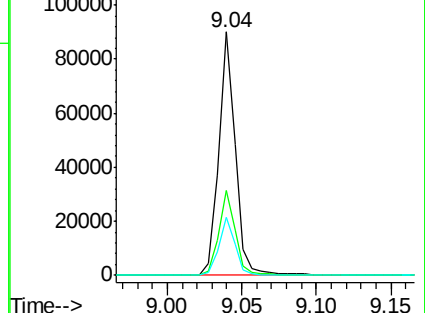
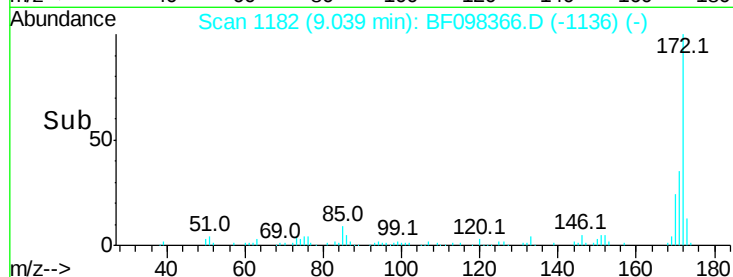
#44
 2-Fluorobiphenyl
 Concen: 8.557 ng
 RT: 9.04 min Scan# 1182
 Delta R.T. -0.03 min
 Lab File: BF098366.D
 Acq: 8 Sep 2017 22:30

Instrument :
 BNA_F
 ClientSampleId :
 RL-3-0-11.75

Tot Ion:172 Resp: 69730
 Ion Ratio Lower Upper
 172 100
 171 34.6 29.6 44.4
 170 23.6 19.8 29.8

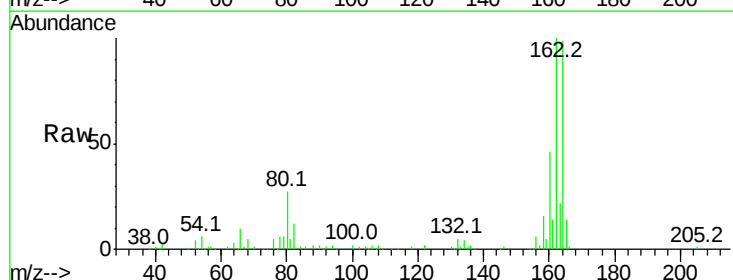


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

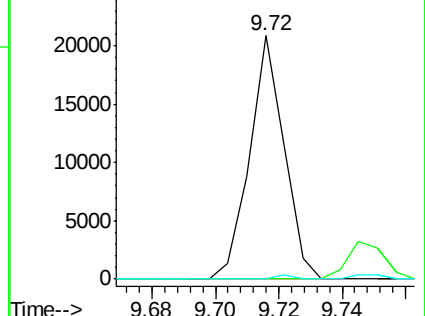
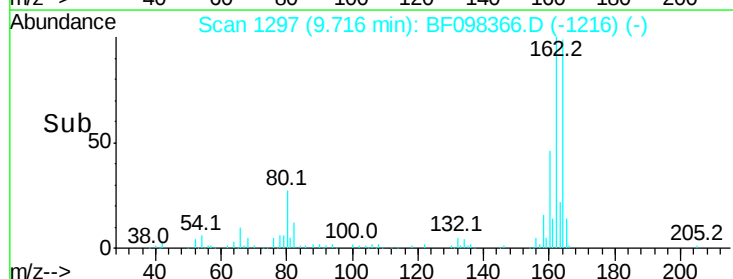


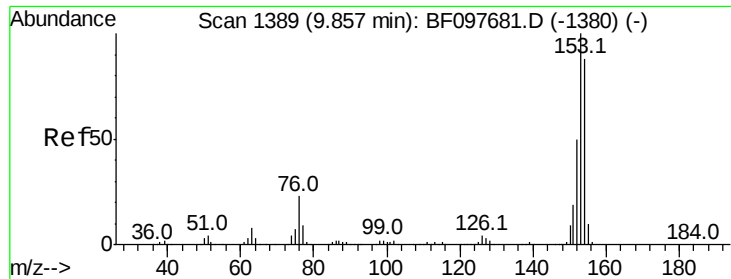
#50
 2,6-Dinitrotoluene
 Concen: 8.961 ng
 RT: 9.72 min Scan# 1297
 Delta R.T. 0.18 min
 Lab File: BF098366.D
 Acq: 8 Sep 2017 22:30

Tgt Ion:165 Resp: 15654
 Ion Ratio Lower Upper
 165 100
 63 0.0 34.3 51.5#
 89 0.0 37.1 55.7#



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: 3.780 ng

RT: 9.75 min Scan# 1303

Delta R.T. -0.02 min

Lab File: BF098366.D

Acq: 8 Sep 2017 22:30

Instrument :

BNA_F

ClientSampleId :

RL-3-0-11.75

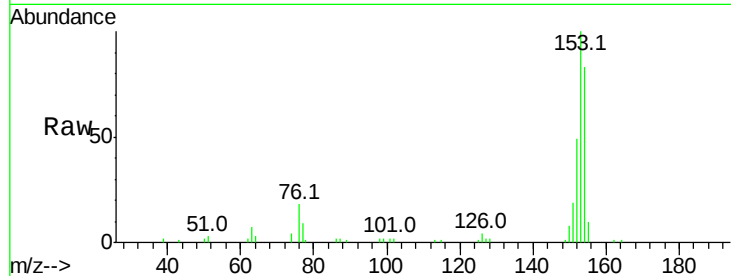
Tot Ion:154 Resp: 30198

Ion Ratio Lower Upper

154 100

153 120.7 90.5 135.7

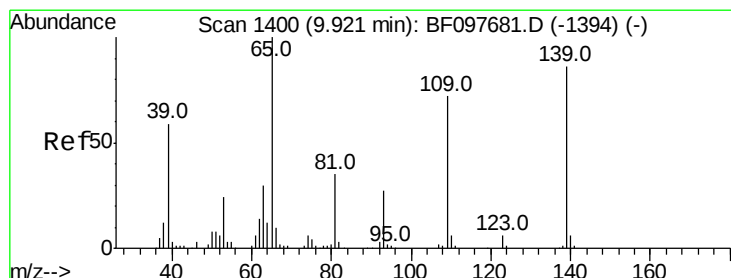
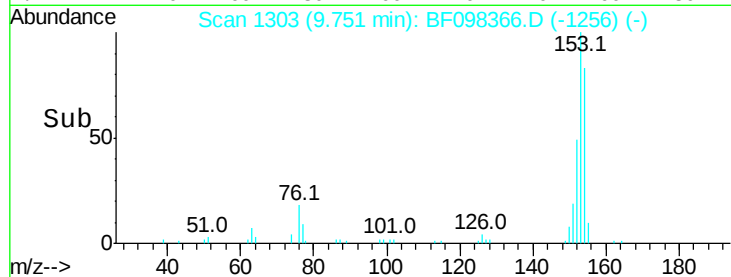
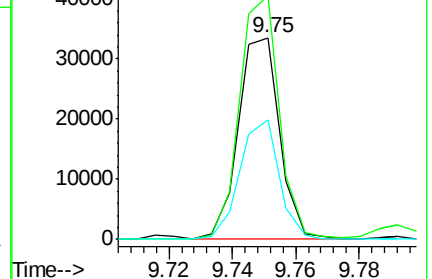
152 59.4 43.6 65.4



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: 4.422 ng

RT: 9.92 min Scan# 1332

Delta R.T. 0.05 min

Lab File: BF098366.D

Acq: 8 Sep 2017 22:30

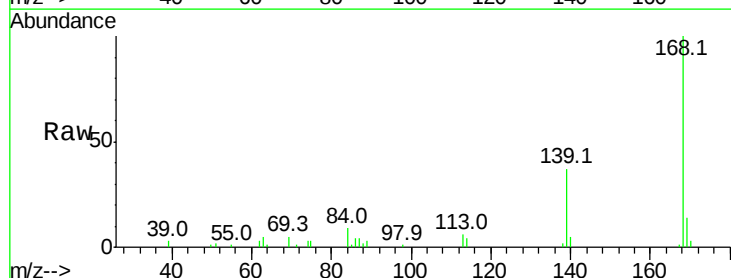
Tgt Ion:139 Resp: 7950

Ion Ratio Lower Upper

139 100

109 0.0 34.1 74.1#

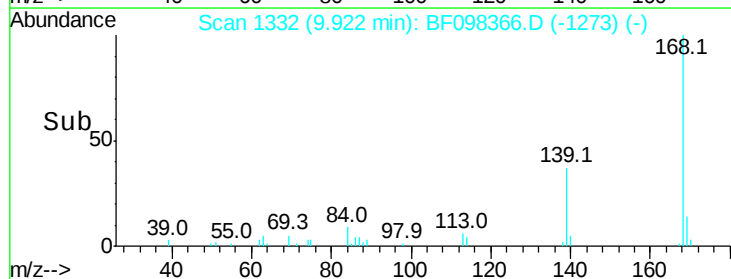
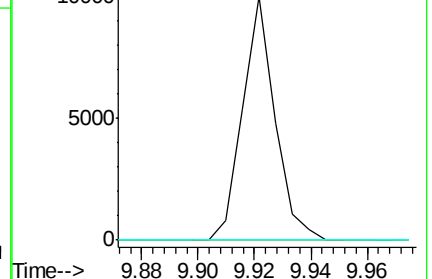
65 0.0 31.4 71.4#

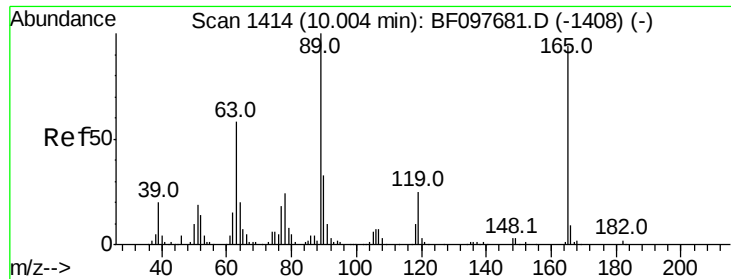


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

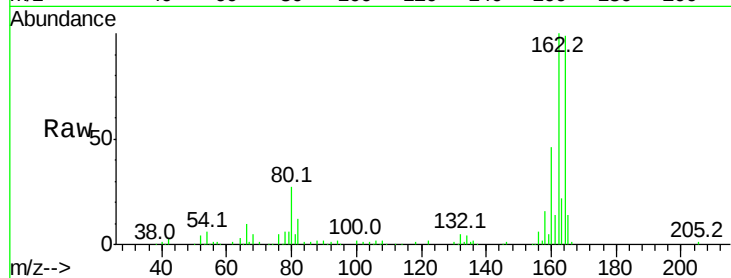




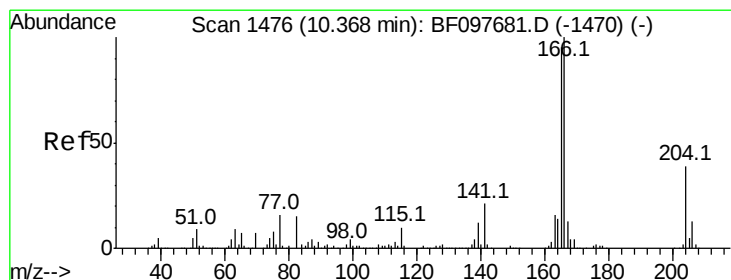
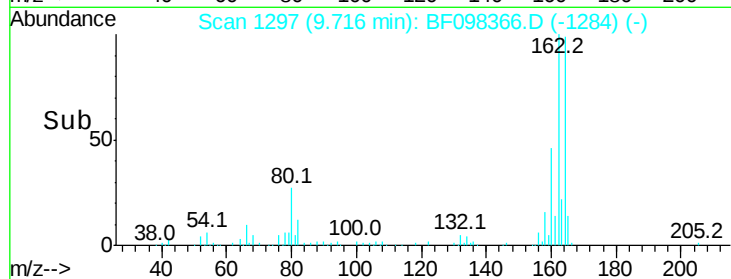
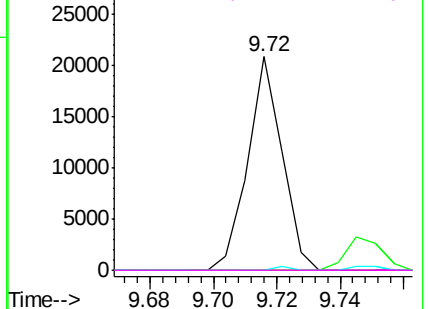
#56
 2,4-Dinitrotoluene
 Concen: 7.141 ng
 RT: 9.72 min Scan# 1297
 Delta R.T. -0.22 min
 Lab File: BF098366.D
 Acq: 8 Sep 2017 22:30

Instrument :
 BNA_F
 ClientSampleId :
 RL-3-0-11.75

Tot Ion:165 Resp: 15654
 Ion Ratio Lower Upper
 165 100
 63 0.0 25.4 38.0#
 89 0.0 46.4 69.6#
 182 0.0 1.8 2.6#

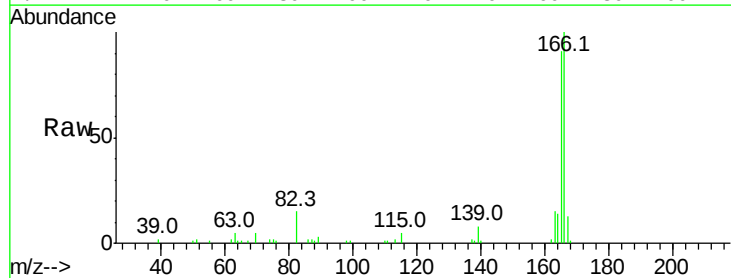


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0
 Ion 182.00 (181.70 to 182.70): E

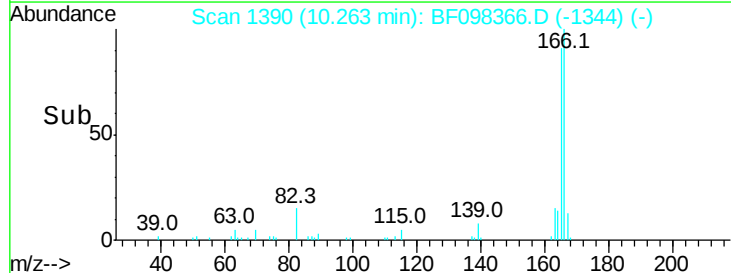
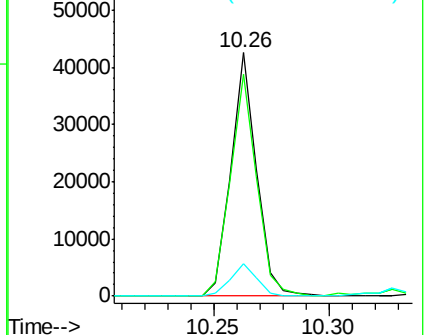


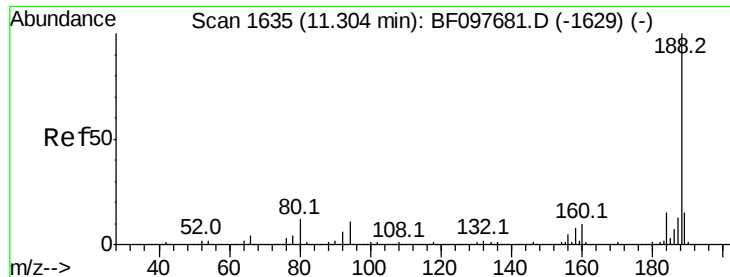
#57
 Fluorene
 Concen: 3.972 ng
 RT: 10.26 min Scan# 1390
 Delta R.T. -0.03 min
 Lab File: BF098366.D
 Acq: 8 Sep 2017 22:30

Tgt Ion:166 Resp: 32881
 Ion Ratio Lower Upper
 166 100
 165 90.9 78.8 118.2
 167 13.1 10.6 16.0



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

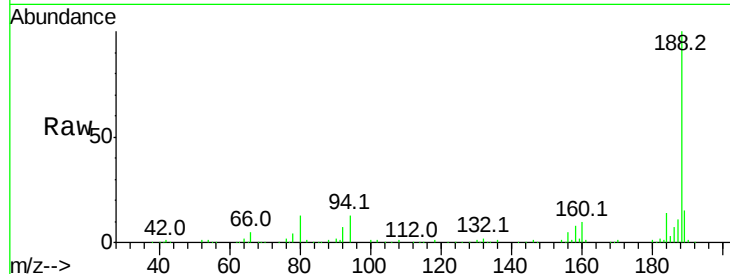




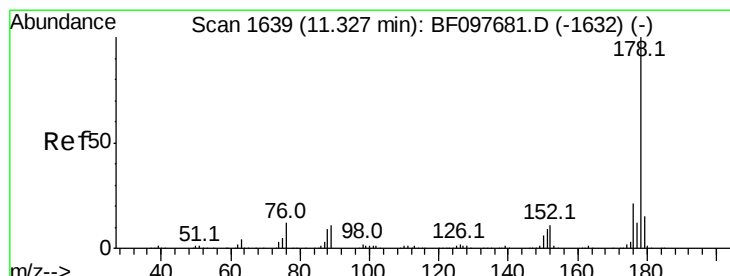
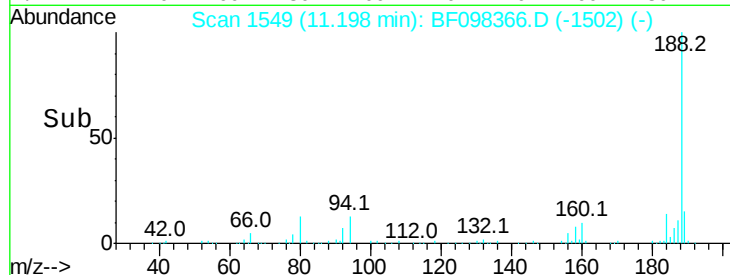
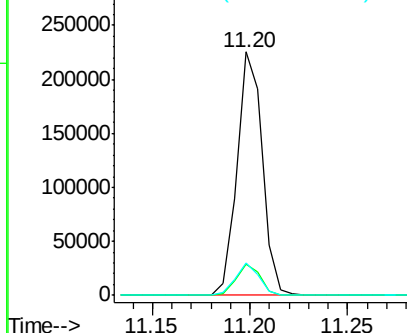
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.20 min Scan# 1549
Delta R.T. -0.02 min
Lab File: BF098366.D
Acq: 8 Sep 2017 22:30

Instrument :
BNA_F
ClientSampleId :
RL-3-0-11.75

Tot Ion:188 Resp: 201543
Ion Ratio Lower Upper
188 100
94 12.8 9.4 14.2
80 13.5 10.2 15.2

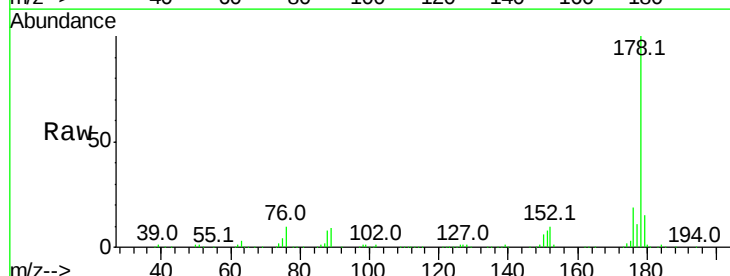


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

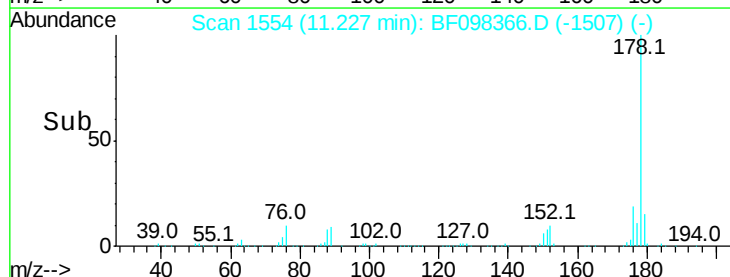
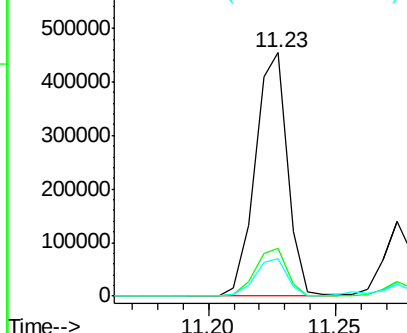


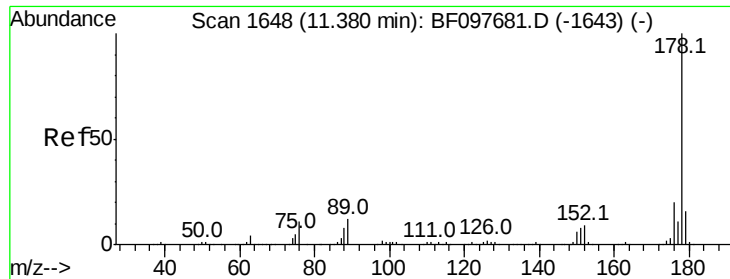
#70
Phenanthrene
Concen: 37.691 ng
RT: 11.23 min Scan# 1554
Delta R.T. -0.02 min
Lab File: BF098366.D
Acq: 8 Sep 2017 22:30

Tgt Ion:178 Resp: 404788
Ion Ratio Lower Upper
178 100
176 19.4 16.2 24.4
179 15.3 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





#71

Anthracene

Concen: 10.144 ng

RT: 11.27 min Scan# 1562

Delta R.T. -0.03 min

Lab File: BF098366.D

Acq: 8 Sep 2017 22:30

Instrument :

BNA_F

ClientSampleId :

RL-3-0-11.75

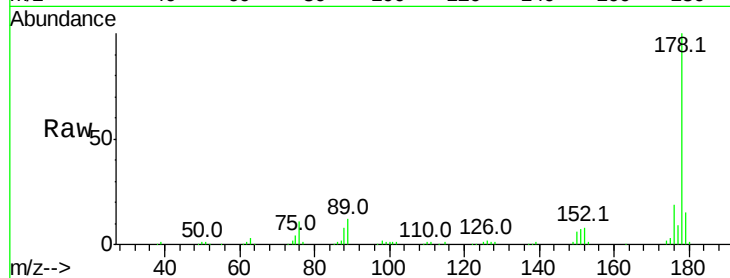
Tot Ion:178 Resp: 110499

Ion Ratio Lower Upper

178 100

176 18.8 15.8 23.8

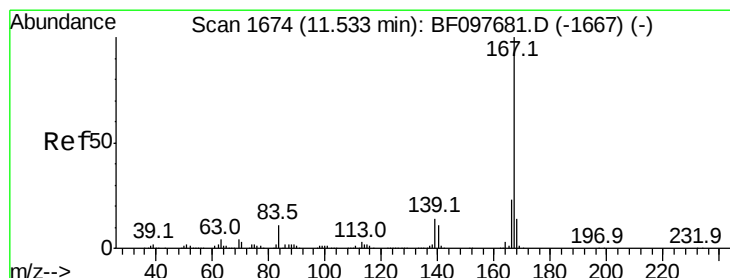
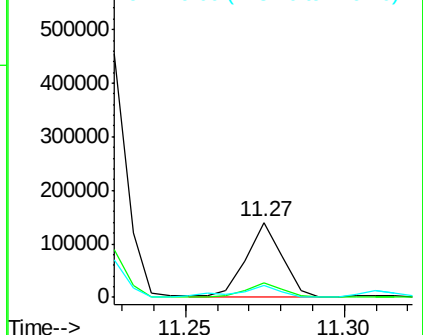
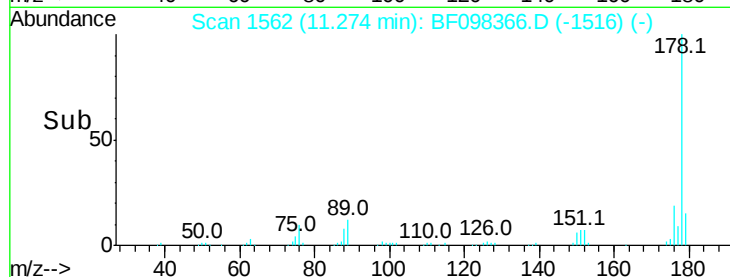
179 15.1 12.7 19.1



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: 5.372 ng

RT: 11.43 min Scan# 1589

Delta R.T. -0.02 min

Lab File: BF098366.D

Acq: 8 Sep 2017 22:30

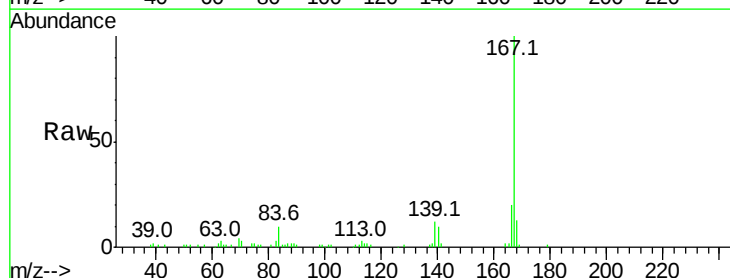
Tgt Ion:167 Resp: 55540

Ion Ratio Lower Upper

167 100

166 19.8 18.1 27.1

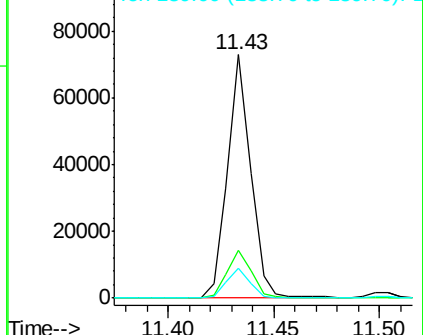
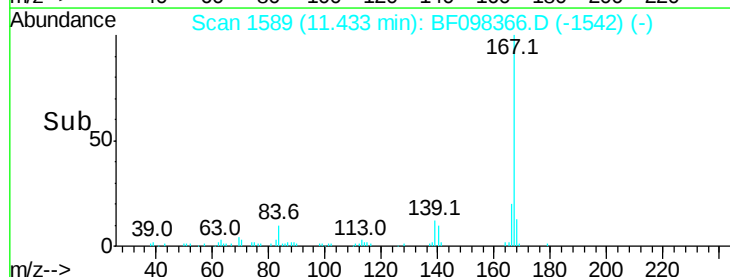
139 12.5 11.7 17.5

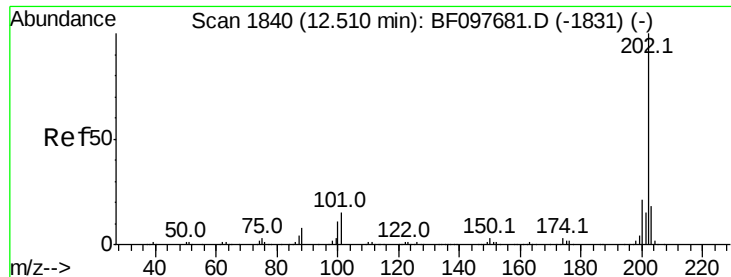


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 46.352 ng

RT: 12.42 min Scan# 1756

Delta R.T. -0.02 min

Lab File: BF098366.D

Acq: 8 Sep 2017 22:30

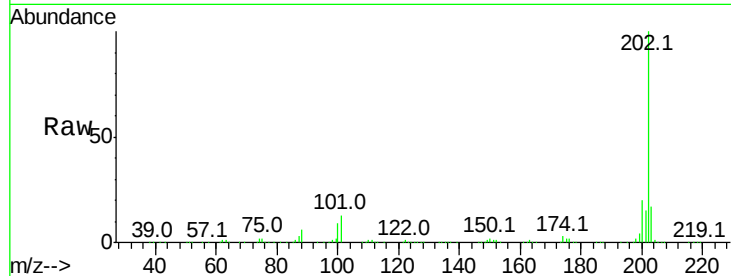
Instrument :

BNA_F

ClientSampleId :

RL-3-0-11.75

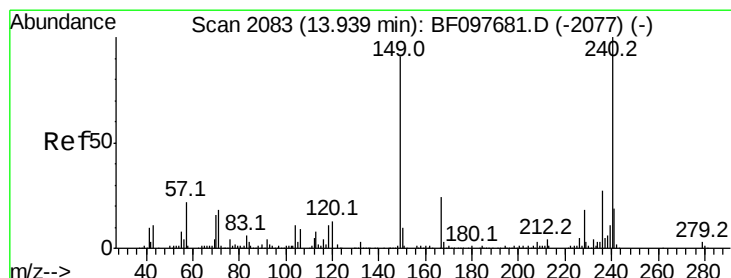
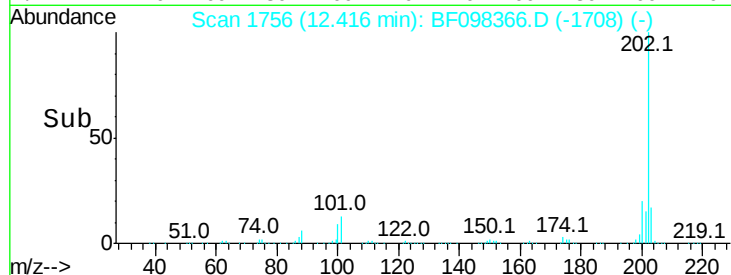
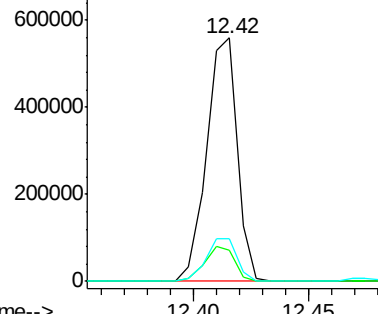
Tot Ion:	202	Resp:	519592
Ion Ratio	Lower	Upper	
202	100		
101	12.6	0.0	33.2
203	17.4	0.0	38.1



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: 20.000 ng

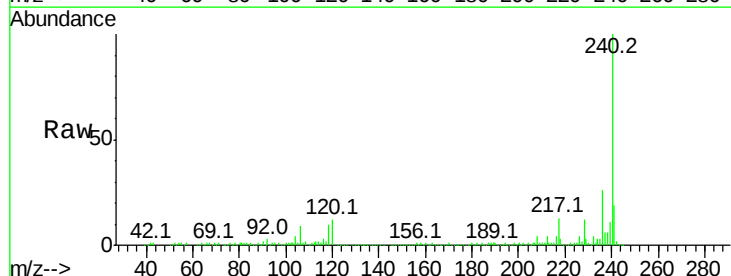
RT: 13.84 min Scan# 1998

Delta R.T. -0.02 min

Lab File: BF098366.D

Acq: 8 Sep 2017 22:30

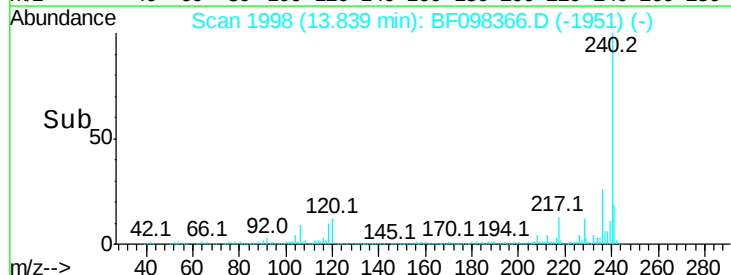
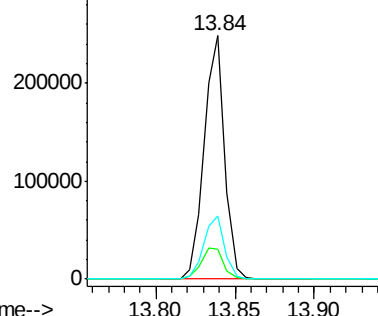
Tgt Ion:	240	Resp:	221825
Ion Ratio	Lower	Upper	
240	100		
120	12.1	5.8	8.8#
236	26.2	20.5	30.7

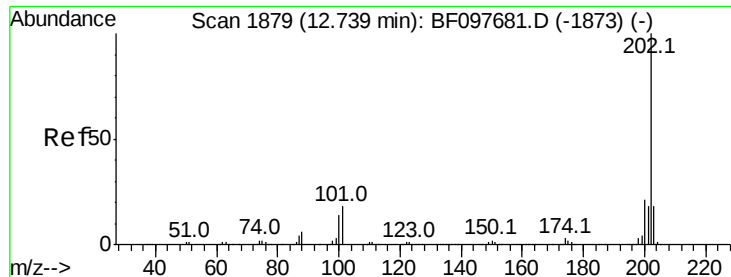


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 25.310 ng

RT: 12.64 min Scan# 1794

Delta R.T. -0.02 min

Lab File: BF098366.D

Acq: 8 Sep 2017 22:30

Instrument :

BNA_F

ClientSampleId :

RL-3-0-11.75

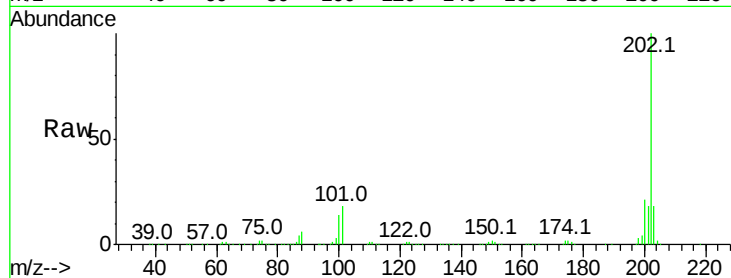
Tot Ion:202 Resp: 459193

Ion Ratio Lower Upper

202 100

200 20.7 17.6 26.4

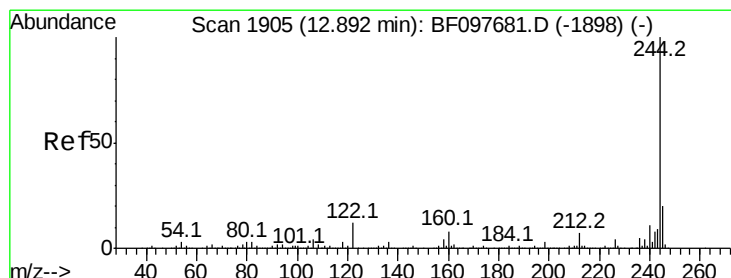
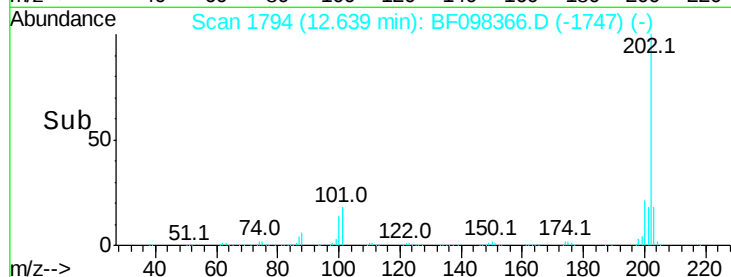
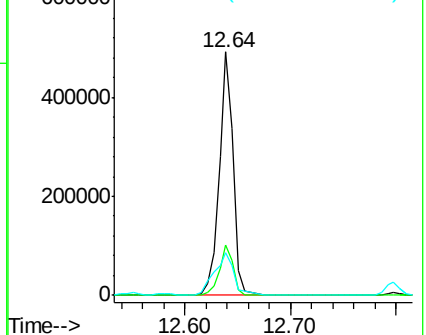
203 17.8 14.4 21.6



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: 4.912 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.03 min

Lab File: BF098366.D

Acq: 8 Sep 2017 22:30

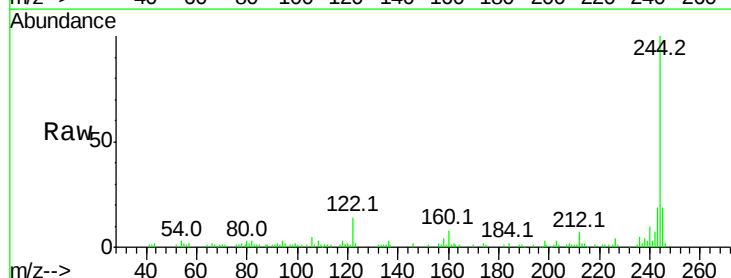
Tgt Ion:244 Resp: 52248

Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

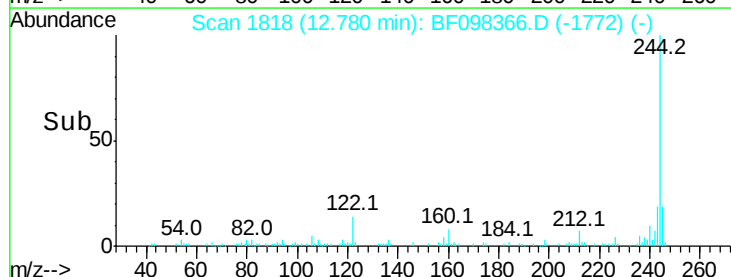
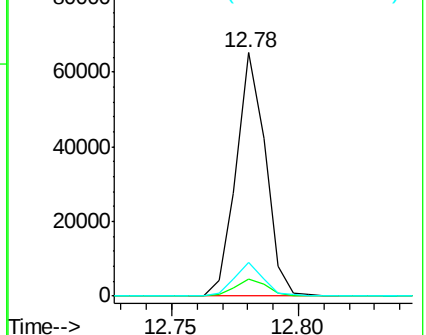
122 13.8 10.3 15.5

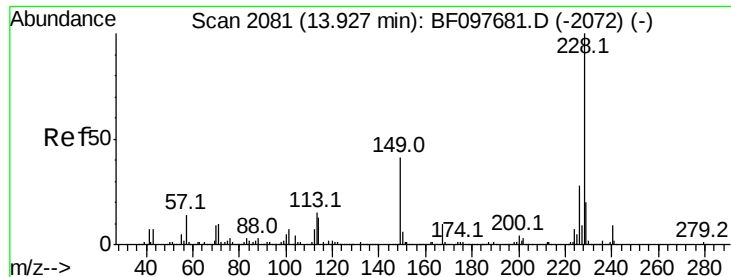


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

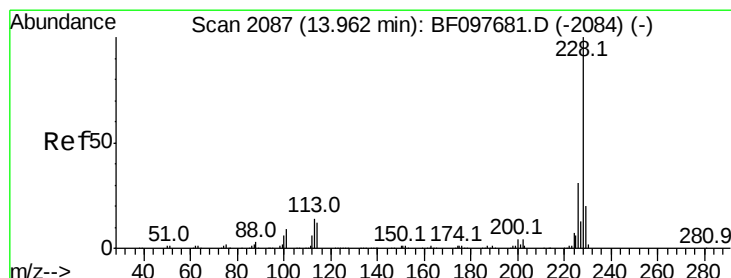
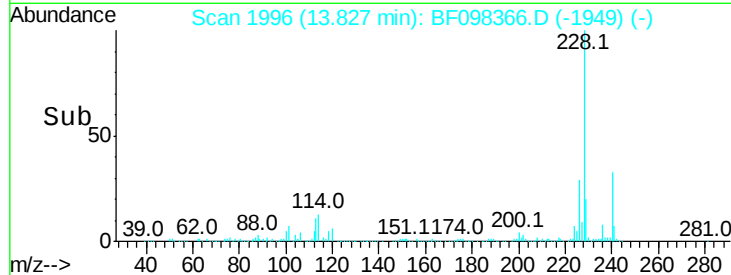
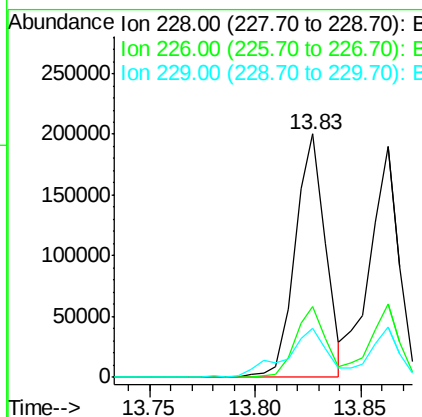
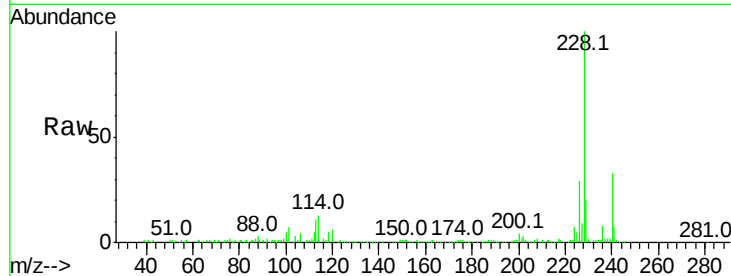




#80
Benzo(a)anthracene
Concen: 15.071 ng
RT: 13.83 min Scan# 1996
Delta R.T. -0.02 min
Lab File: BF098366.D
Acq: 8 Sep 2017 22:30

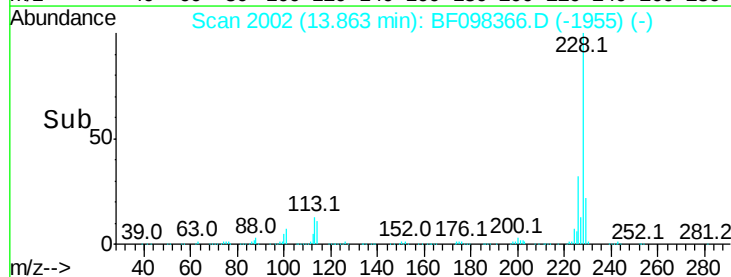
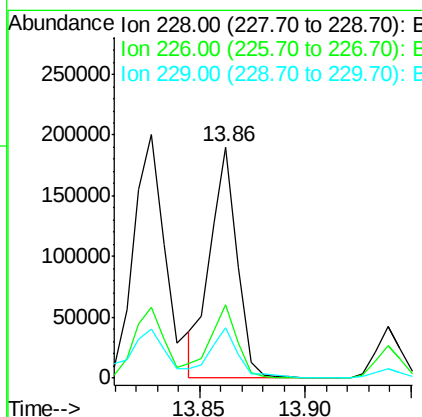
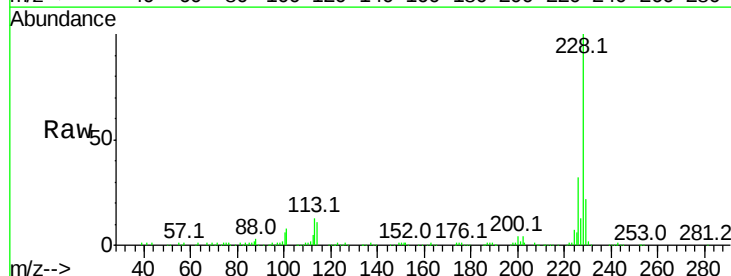
Instrument :
BNA_F
ClientSampleId :
RL-3-0-11.75

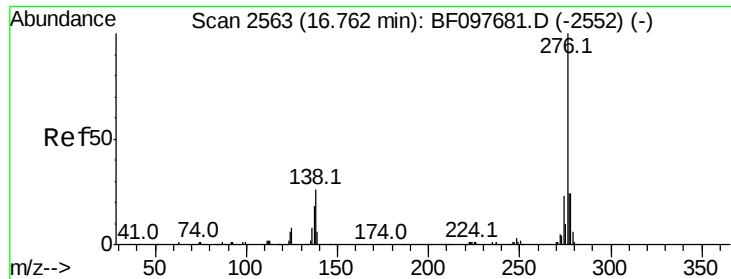
Tot Ion:228 Resp: 200372
Ion Ratio Lower Upper
228 100
226 29.3 22.6 33.8
229 19.9 16.3 24.5



#82
Chrysene
Concen: 12.774 ng
RT: 13.86 min Scan# 2002
Delta R.T. -0.02 min
Lab File: BF098366.D
Acq: 8 Sep 2017 22:30

Tgt Ion:228 Resp: 168940
Ion Ratio Lower Upper
228 100
226 31.6 24.9 37.3
229 21.9 15.8 23.6

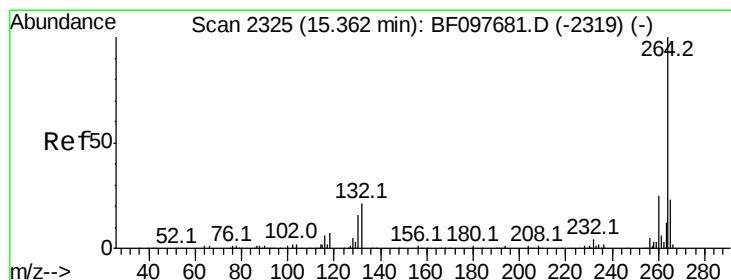
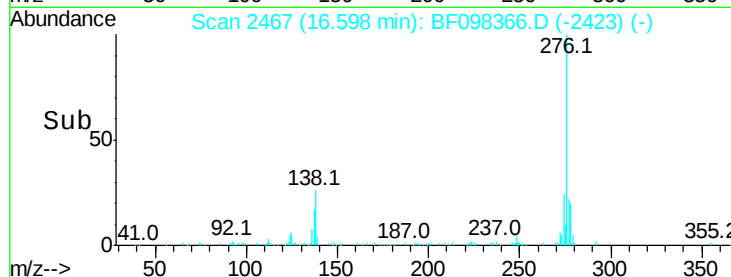
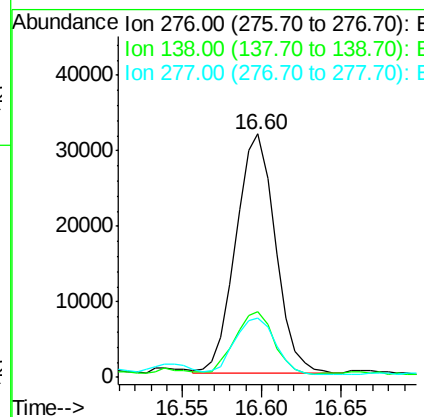
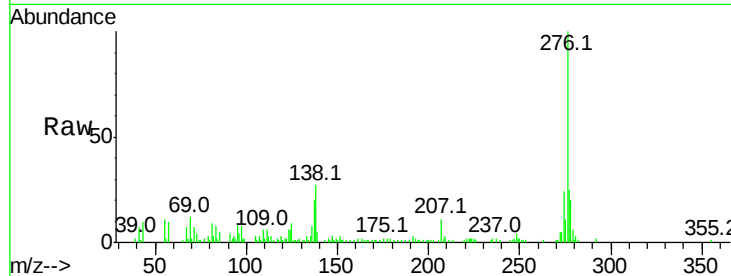




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.664 ng
 RT: 16.60 min Scan# 2467
 Delta R.T. -0.04 min
 Lab File: BF098366.D
 Acq: 8 Sep 2017 22:30

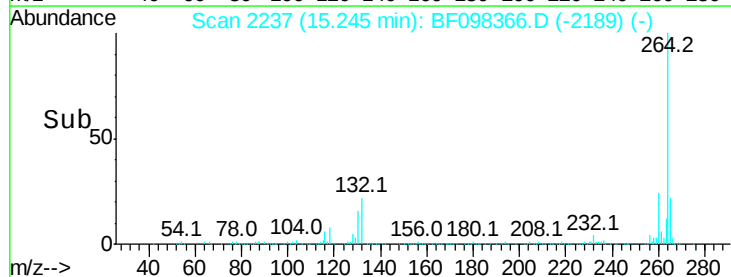
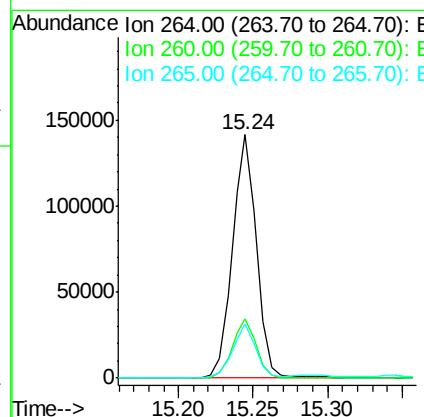
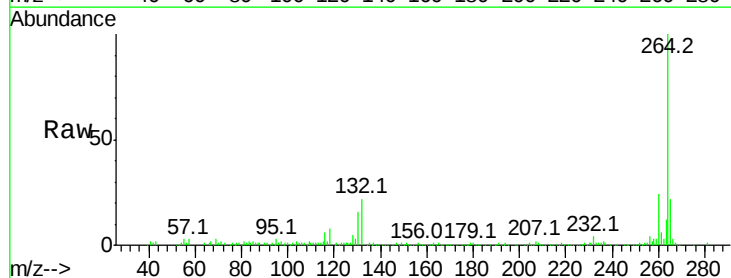
Instrument :
 BNA_F
 ClientSampleId :
 RL-3-0-11.75

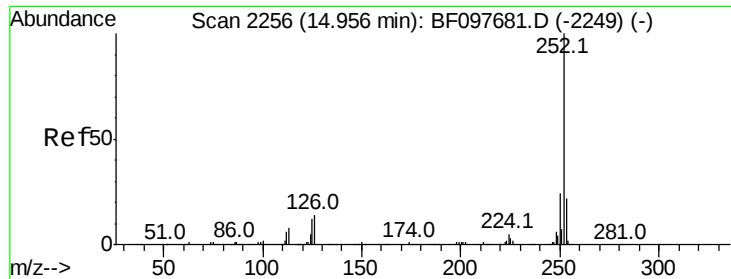
Tot Ion:276 Resp: 55102
 Ion Ratio Lower Upper
 276 100
 138 26.3 27.8 41.6#
 277 24.6 20.2 30.4



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.24 min Scan# 2237
 Delta R.T. -0.02 min
 Lab File: BF098366.D
 Acq: 8 Sep 2017 22:30

Tgt Ion:264 Resp: 161100
 Ion Ratio Lower Upper
 264 100
 260 24.3 19.5 29.3
 265 22.1 17.2 25.8

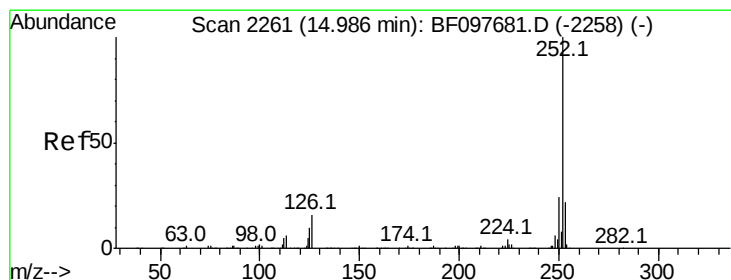
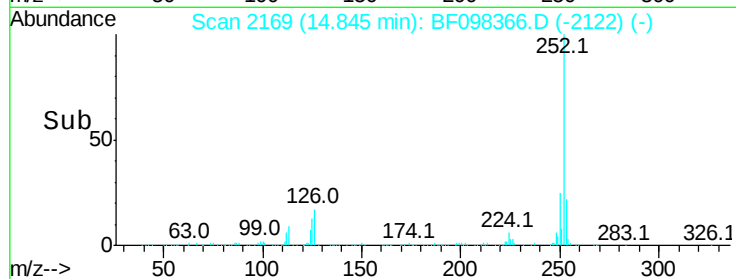
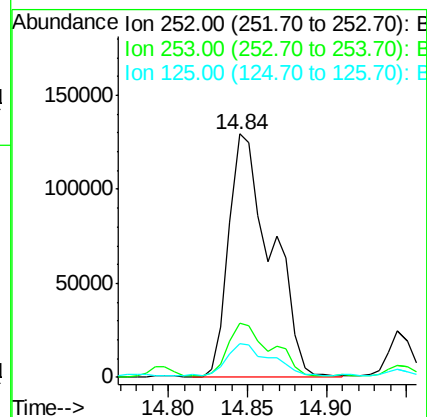
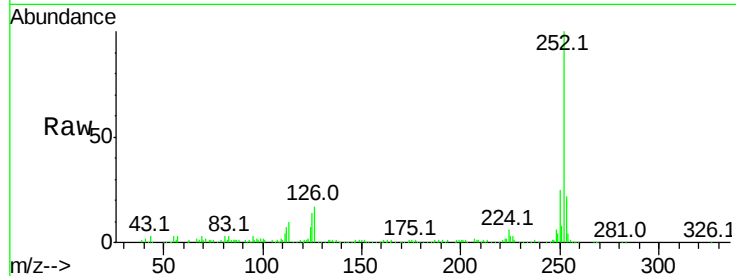




#87
Benzo(b)fluoranthene
Concen: 23.729 ng
RT: 14.84 min Scan# 2169
Delta R.T. -0.02 min
Lab File: BF098366.D
Acq: 8 Sep 2017 22:30

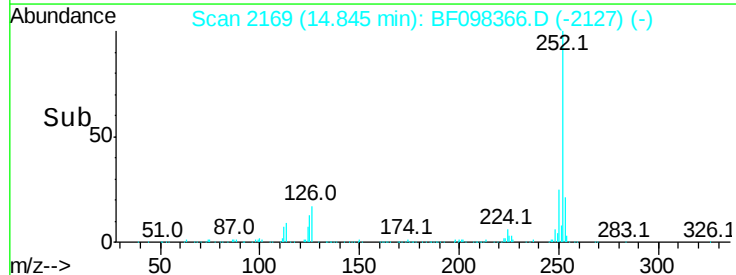
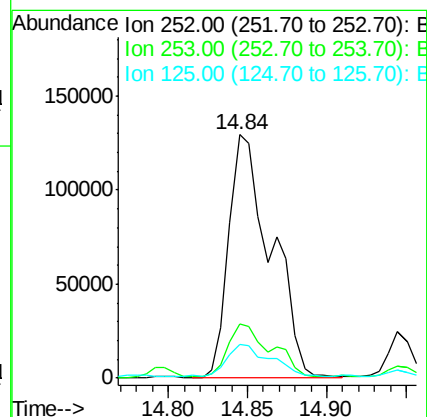
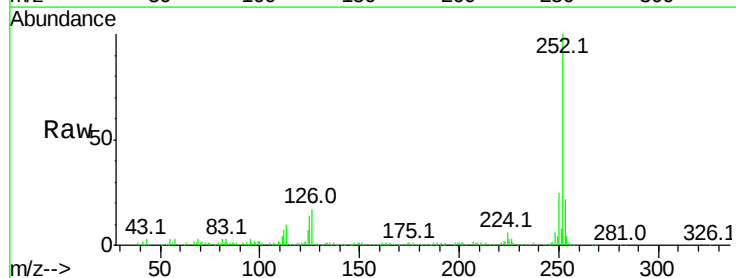
Instrument :
BNA_F
ClientSampleId :
RL-3-0-11.75

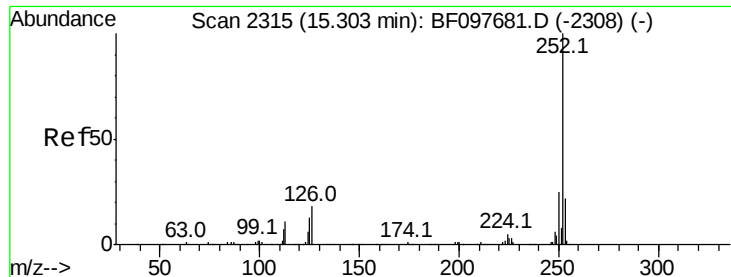
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.1	27.1
125	13.8	9.8	14.8



#88
Benzo(k)fluoranthene
Concen: 25.257 ng
RT: 14.84 min Scan# 2169
Delta R.T. -0.05 min
Lab File: BF098366.D
Acq: 8 Sep 2017 22:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.4	27.6
125	13.8	13.1	19.7

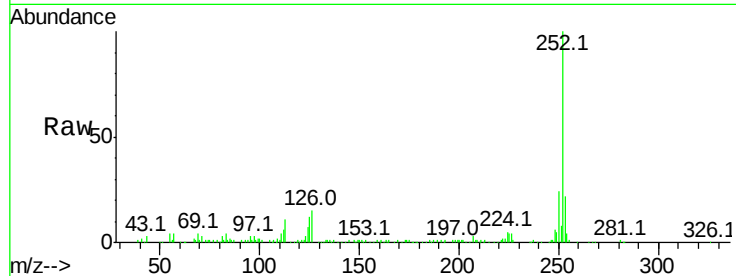




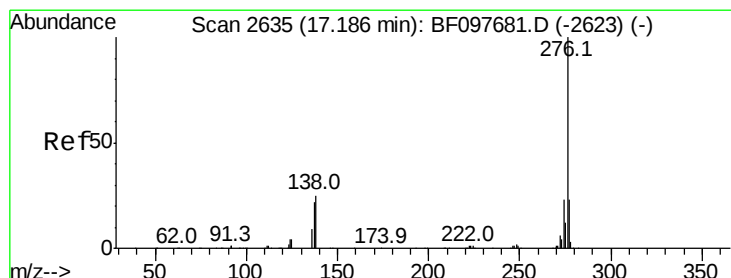
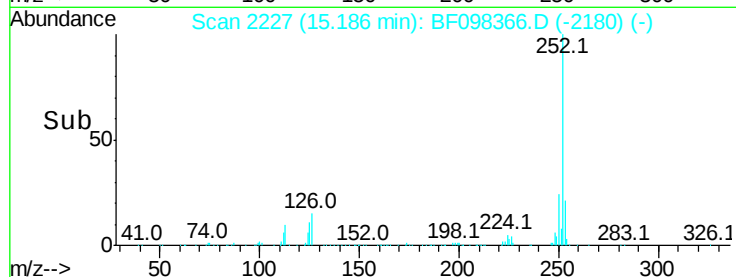
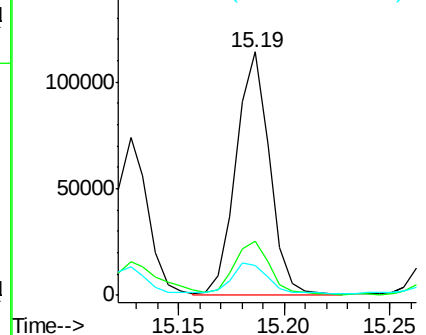
#89
Benzo(a)pyrene
Concen: 13.861 ng
RT: 15.19 min Scan# 2227
Delta R.T. -0.02 min
Lab File: BF098366.D
Acq: 8 Sep 2017 22:30

Instrument :
BNA_F
ClientSampleId :
RL-3-0-11.75

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.5	26.3
125	12.1	11.0	16.4

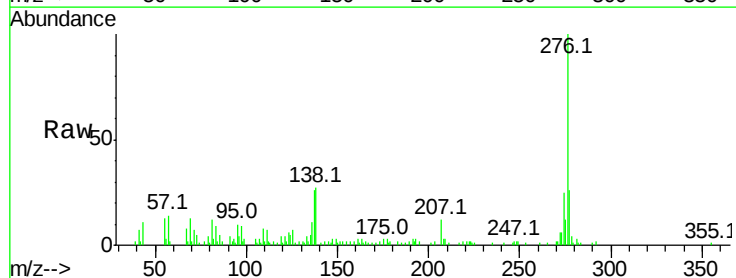


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91
Benzo(g,h,i)perylene
Concen: 7.176 ng
RT: 17.00 min Scan# 2536
Delta R.T. -0.05 min
Lab File: BF098366.D
Acq: 8 Sep 2017 22:30

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.6	18.6	28.0
138	26.6	25.4	38.0



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

