

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020717\
 Data File : BF092829.D
 Acq On : 7 Feb 2017 15:16
 Operator : SJ/MA
 Sample : I1701-01RE
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Feb 07 15:46:40 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 30 14:50:05 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	143220	20.00	ng	-0.07
21) Naphthalene-d8	8.19	136	582421	20.00	ng	-0.07
38) Acenaphthene-d10	9.95	164	275978	20.00	ng	-0.06
63) Phenanthrene-d10	11.44	188	387416	20.00	ng	-0.06
75) Chrysene-d12	14.08	240	326646	20.00	ng	-0.07
86) Perylene-d12	15.53	264	247290	20.00	ng	-0.08

System Monitoring Compounds						
5) 2-Fluorophenol	5.52	112	381844	45.74	ng	-0.06
7) Phenol-d6	6.54	99	562670	52.38	ng	-0.06
23) Nitrobenzene-d5	7.47	82	676928	64.72	ng	-0.07
41) 2,4,6-Tribromophenol	10.74	330	72008	36.08	ng	-0.07
44) 2-Fluorobiphenyl	9.26	172	1067086	70.05	ng	-0.07
78) Terphenyl-d14	13.03	244	768485	55.28	ng	-0.06

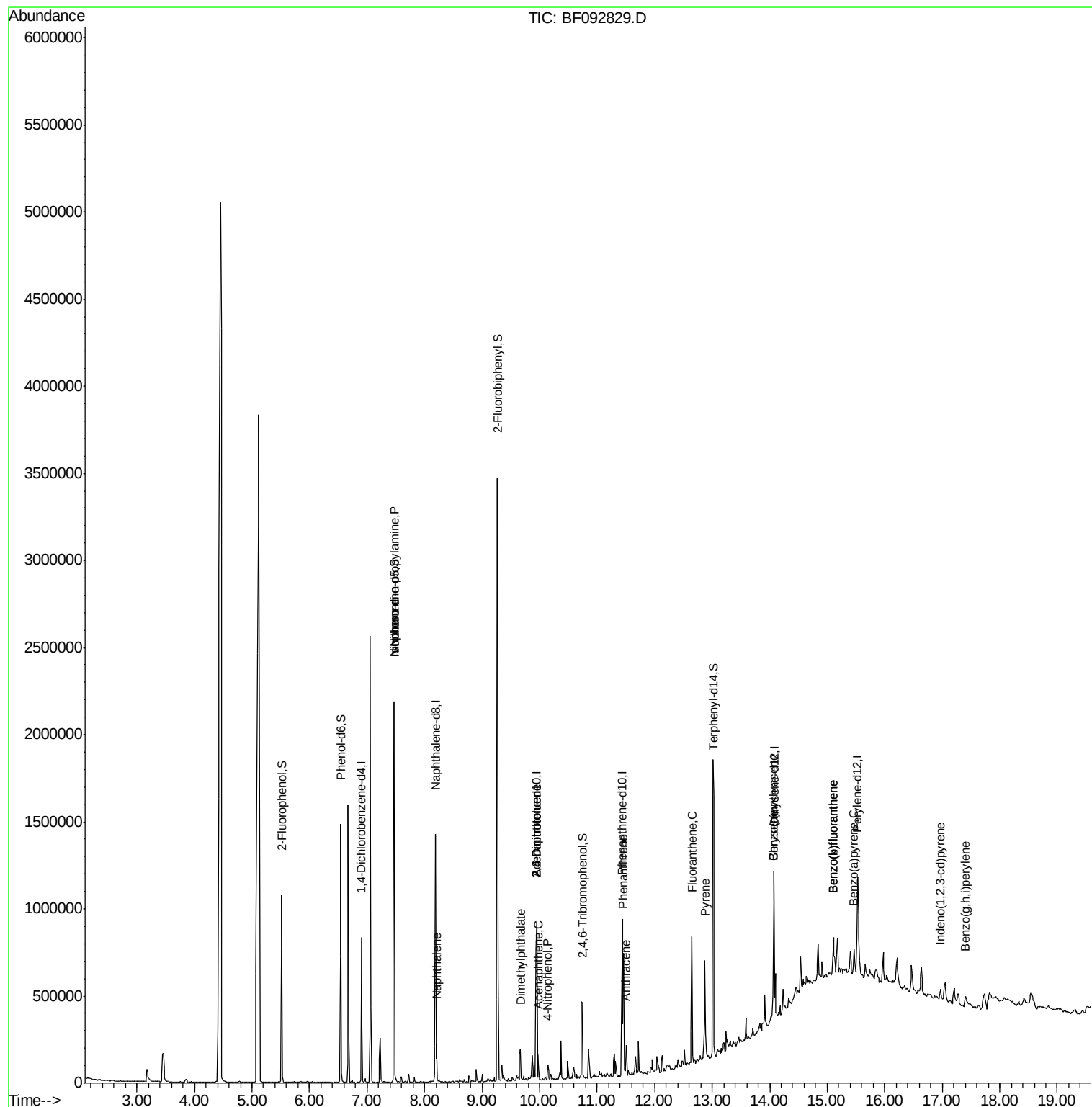
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.47	70	90625	13.25	ng	# 80
25) Isophorone	7.47	82	670553	34.41	ng	# 65
31) Naphthalene	8.21	128	86930	2.94	ng	97
49) Dimethylphthalate	9.66	163	90937	4.89	ng	100
50) 2,6-Dinitrotoluene	9.95	165	36450	9.08	ng	# 29
51) Acenaphthene	9.97	154	34156	2.12	ng	98
55) 4-Nitrophenol	10.14	139	11915	3.60	ng	# 6
56) 2,4-Dinitrotoluene	9.95	165	36787	6.88	ng	# 18
70) Phenanthrene	11.46	178	297141	13.39	ng	97
71) Anthracene	11.50	178	71197	3.19	ng	97
74) Fluoranthene	12.65	202	293281	12.81	ng	93
77) Pyrene	12.88	202	242018	9.90	ng	98
80) Benzo(a)anthracene	14.07	228	137816	6.90	ng	98
82) Chrysene	14.07	228	137816	7.37	ng	94
85) Indeno(1,2,3-cd)pyrene	16.97	276	39280	2.71	ng	# 88
87) Benzo(b)fluoranthene	15.11	252	152211	9.35	ng	# 95
88) Benzo(k)fluoranthene	15.11	252	152211	10.83	ng	# 95
89) Benzo(a)pyrene	15.46	252	79120	5.62	ng	# 86
91) Benzo(a,h,i)perylene	17.40	276	45485	3.96	ng	# 80

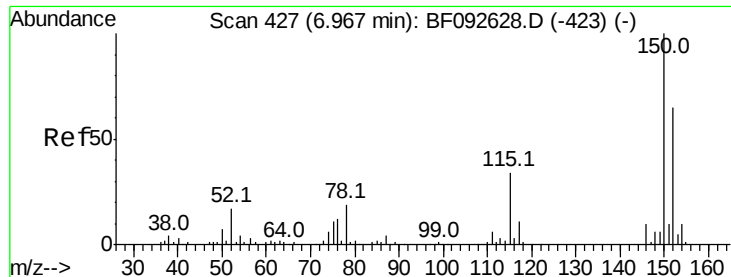
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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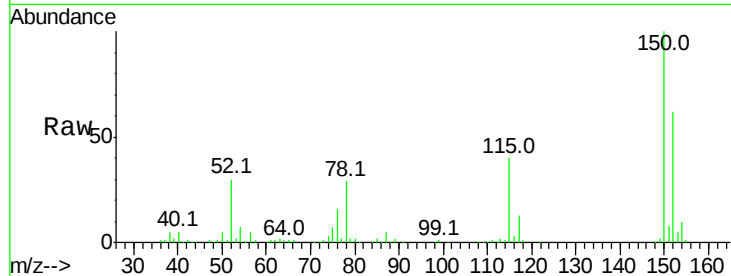


#1

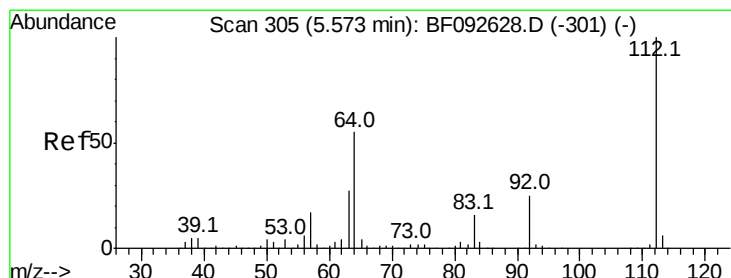
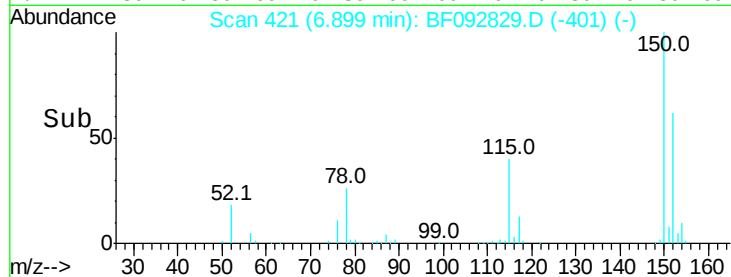
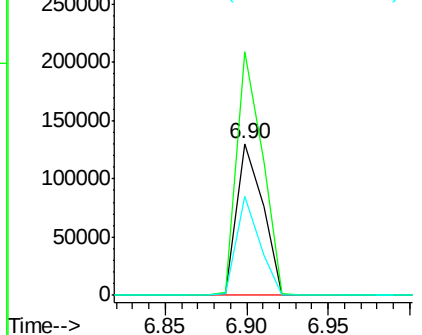
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.90 min Scan# 421
 Delta R.T. -0.07 min
 Lab File: BF092829.D
 Acq: 7 Feb 2017 15:16

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:152 Resp: 143220
 Ion Ratio Lower Upper
 152 100
 150 160.6 124.9 187.3
 115 65.0 46.0 69.0



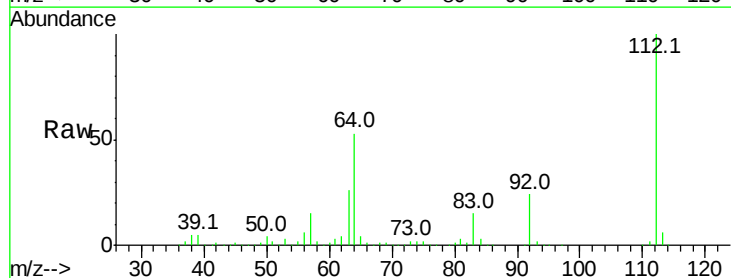
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



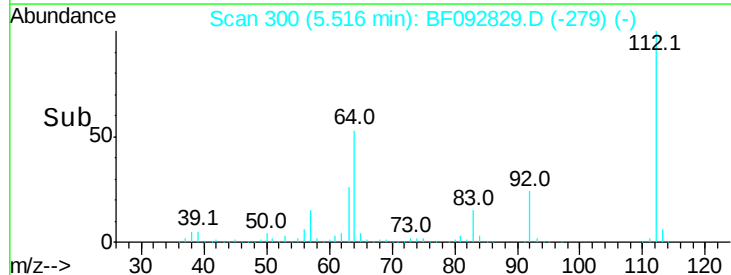
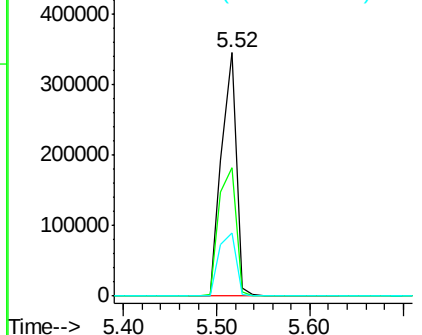
#5

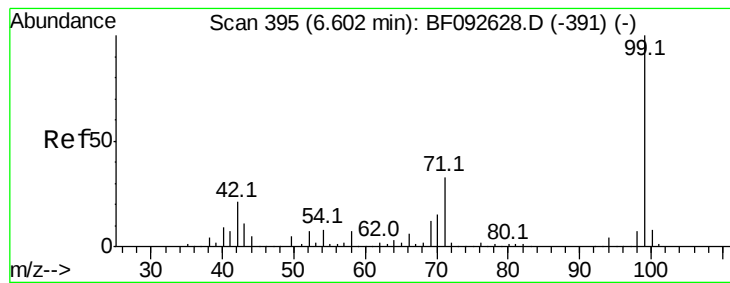
2-Fluorophenol
 Concen: 45.74 ng
 RT: 5.52 min Scan# 300
 Delta R.T. -0.06 min
 Lab File: BF092829.D
 Acq: 7 Feb 2017 15:16

Tgt Ion:112 Resp: 381844
 Ion Ratio Lower Upper
 112 100
 64 52.9 46.1 69.1
 63 26.0 23.8 35.6



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: 52.38 ng

RT: 6.54 min Scan# 390

Delta R.T. -0.06 min

Lab File: BF092829.D

Acq: 7 Feb 2017 15:16

Instrument :

BNA_F

ClientSampleId :

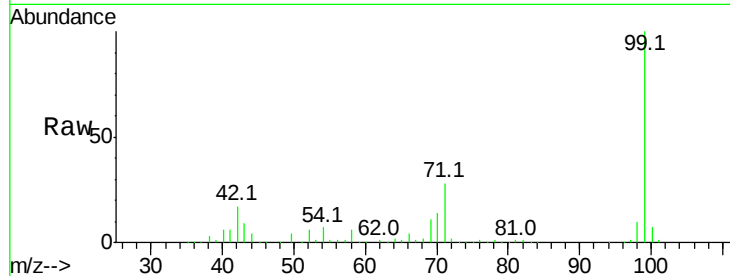
Tot Ion: 99 Resp: 562670

Ion Ratio Lower Upper

99 100

42 16.5 15.6 23.4

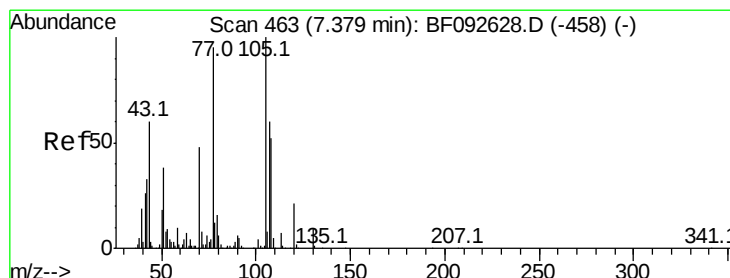
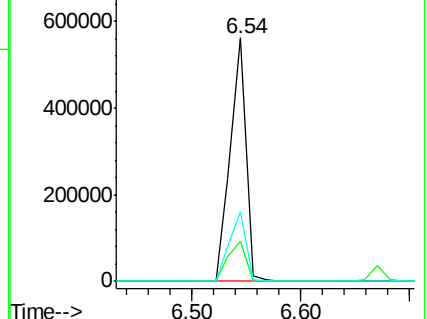
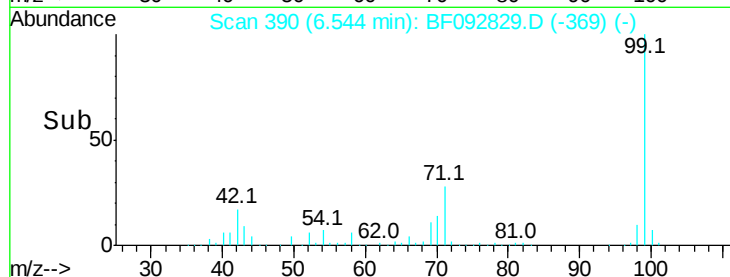
71 28.4 27.5 41.3



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



#19

n-Nitroso-di-n-propylamine

Concen: 13.25 ng

RT: 7.47 min Scan# 471

Delta R.T. 0.09 min

Lab File: BF092829.D

Acq: 7 Feb 2017 15:16

Tgt Ion: 70 Resp: 90625

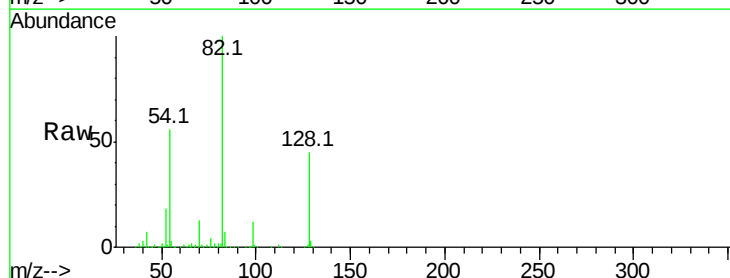
Ion Ratio Lower Upper

70 100

42 50.0 49.4 74.0

101 0.0 7.4 11.2#

130 2.3 14.2 21.4#

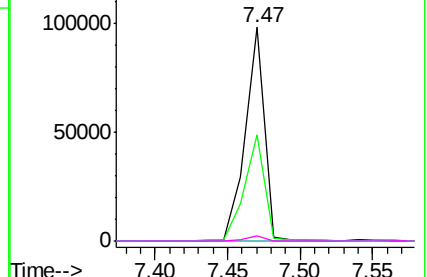
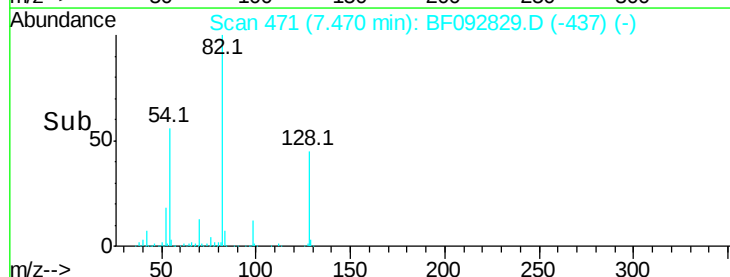


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

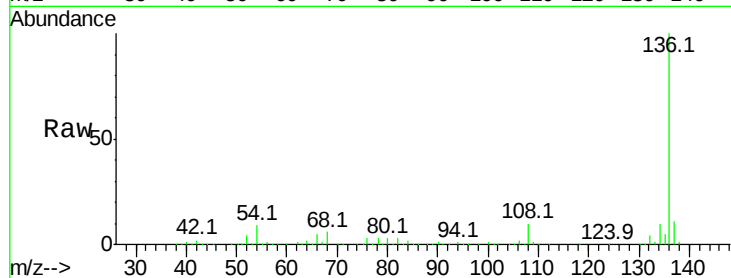




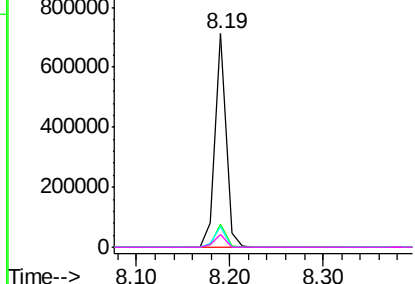
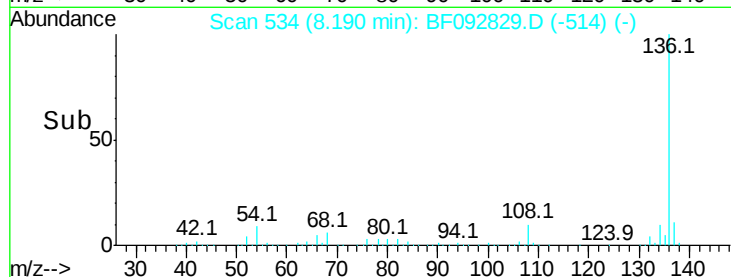
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.19 min Scan# 534
Delta R.T. -0.07 min
Lab File: BF092829.D
Acq: 7 Feb 2017 15:16

Instrument :
BNA_F
ClientSampleId :

Tot Ion:	136	Resp:	582421
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.4	12.6
54	9.4	4.5	6.7#
68	6.2	3.6	5.4#

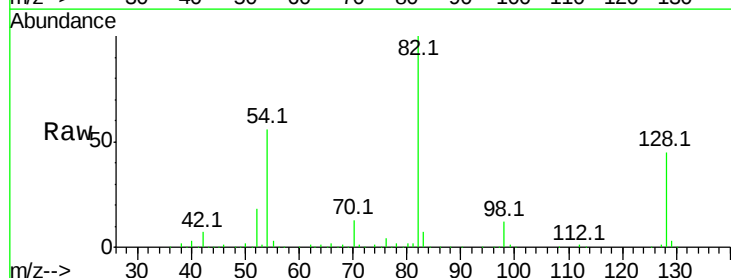


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

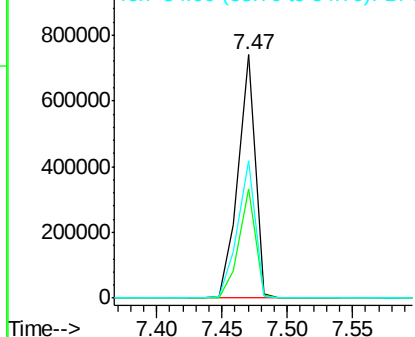
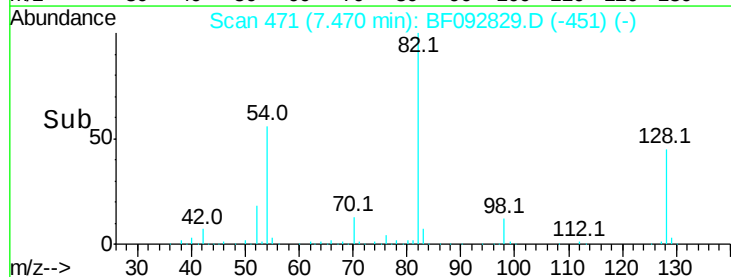


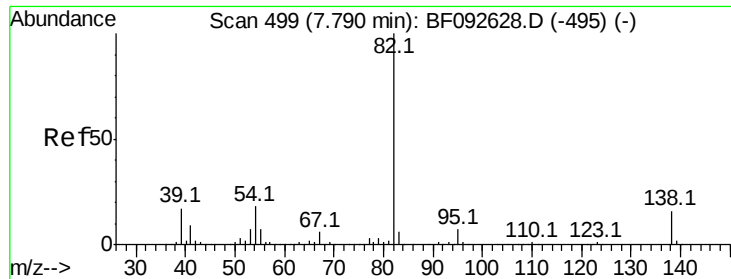
#23
Nitrobenzene-d5
Concen: 64.72 ng
RT: 7.47 min Scan# 471
Delta R.T. -0.07 min
Lab File: BF092829.D
Acq: 7 Feb 2017 15:16

Tgt Ion:	82	Resp:	676928
Ion	Ratio	Lower	Upper
82	100		
128	44.7	34.6	52.0
54	56.4	39.5	59.3



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





#25

Isophorone

Concen: 34.41 ng

RT: 7.47 min Scan# 471

Delta R.T. -0.32 min

Lab File: BF092829.D

Acq: 7 Feb 2017 15:16

Instrument :

BNA_F

ClientSampleId :

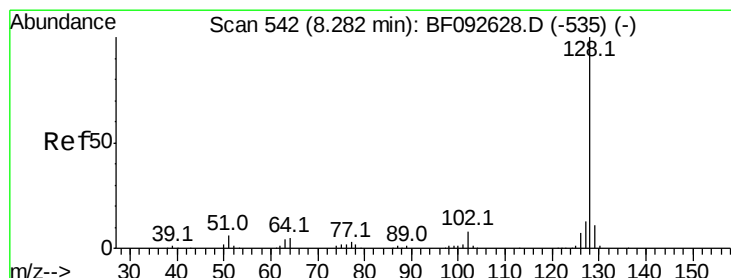
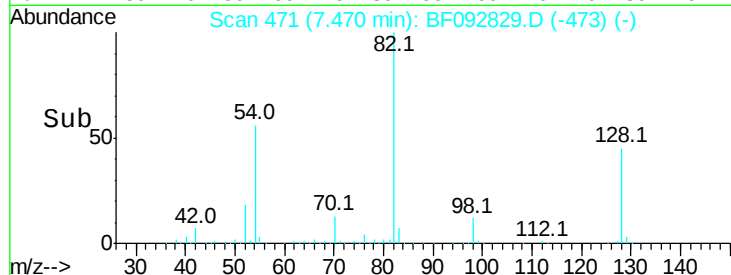
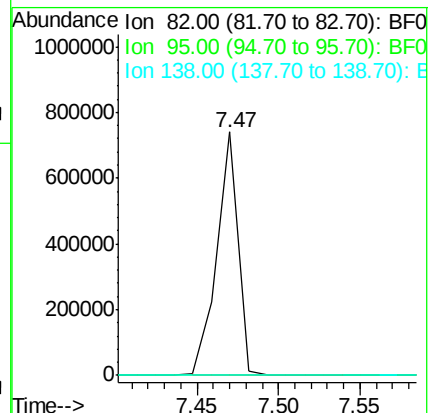
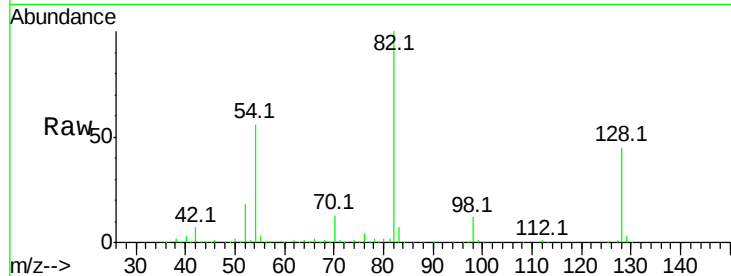
Tot Ion: 82 Resp: 670553

Ion Ratio Lower Upper

82 100

95 0.0 5.6 8.4#

138 0.0 14.6 22.0#



#31

Naphthalene

Concen: 2.94 ng

RT: 8.21 min Scan# 536

Delta R.T. -0.07 min

Lab File: BF092829.D

Acq: 7 Feb 2017 15:16

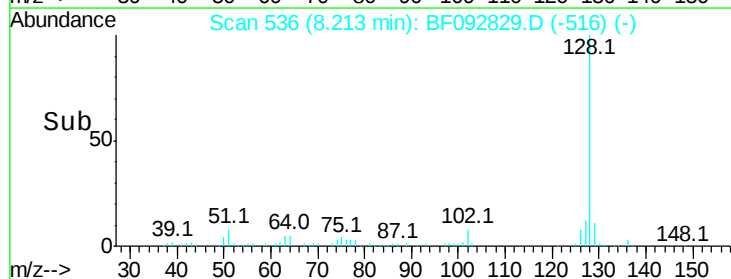
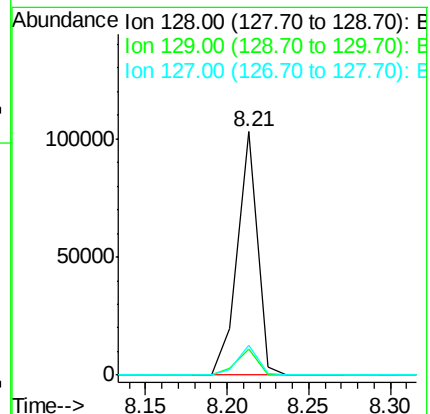
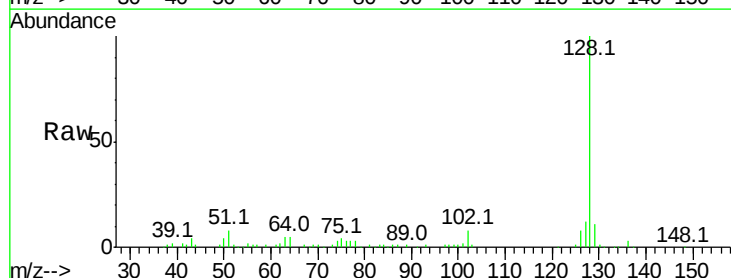
Tgt Ion:128 Resp: 86930

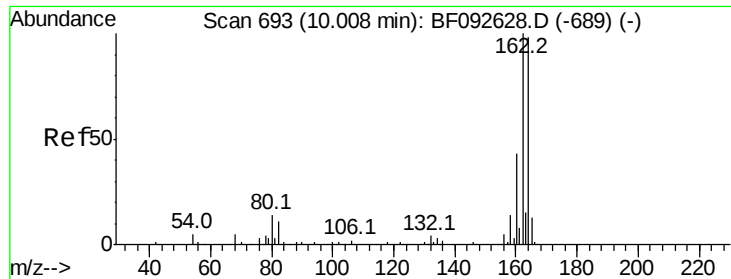
Ion Ratio Lower Upper

128 100

129 10.7 9.5 14.3

127 12.4 10.8 16.2

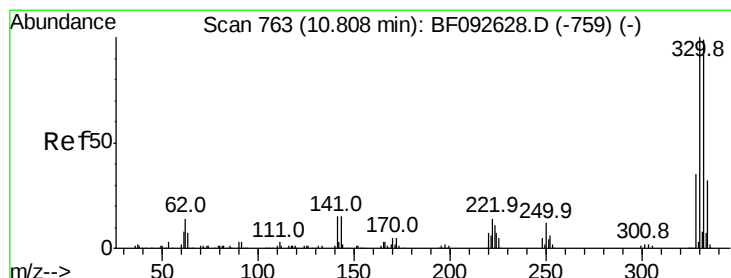
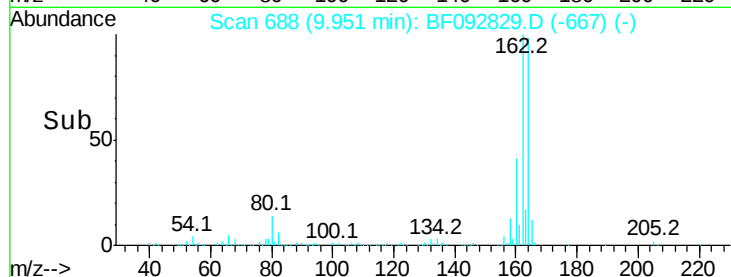
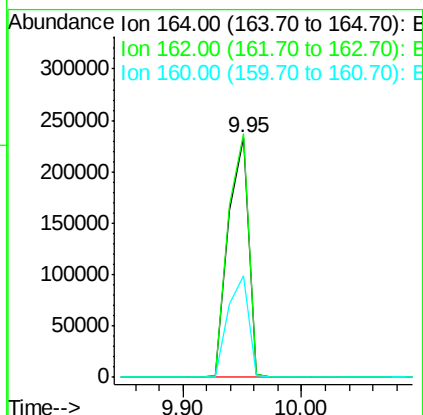
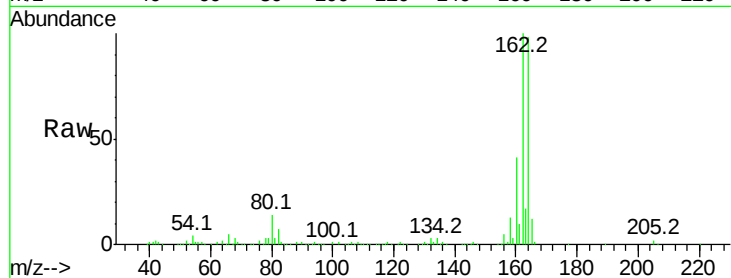




#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.95 min Scan# 688
 Delta R.T. -0.06 min
 Lab File: BF092829.D
 Acq: 7 Feb 2017 15:16

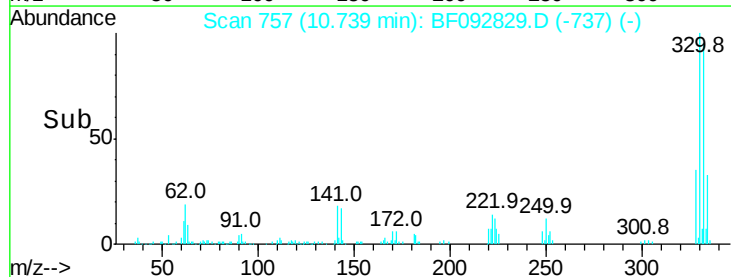
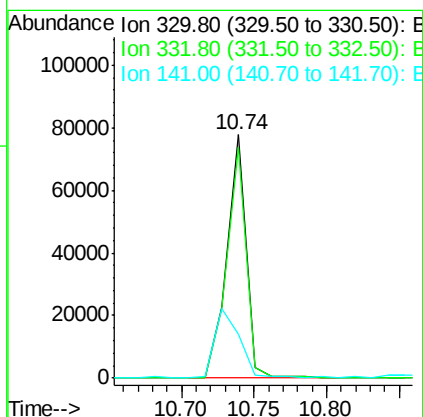
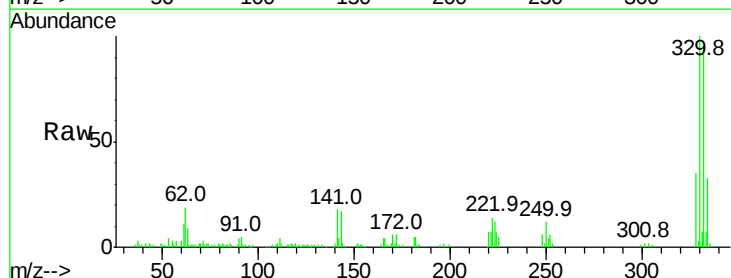
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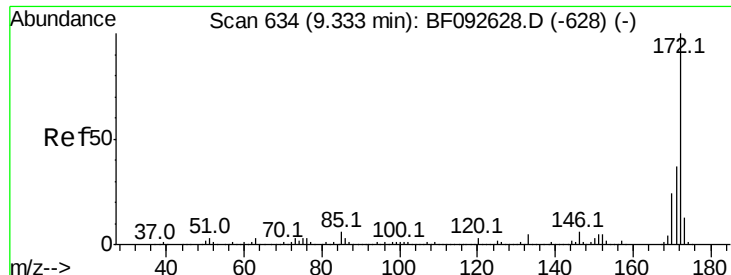
Tot Ion:164 Resp: 275978
 Ion Ratio Lower Upper
 164 100
 162 101.8 80.2 120.2
 160 42.2 36.9 55.3



#41
 2,4,6-Tribromophenol
 Concen: 36.08 ng
 RT: 10.74 min Scan# 757
 Delta R.T. -0.07 min
 Lab File: BF092829.D
 Acq: 7 Feb 2017 15:16

Tgt Ion:330 Resp: 72008
 Ion Ratio Lower Upper
 330 100
 332 96.1 77.4 116.2
 141 36.9 34.1 51.1

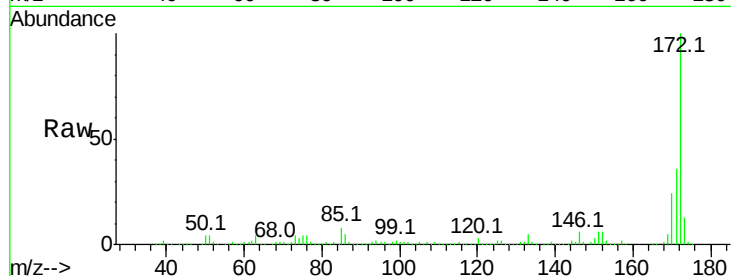




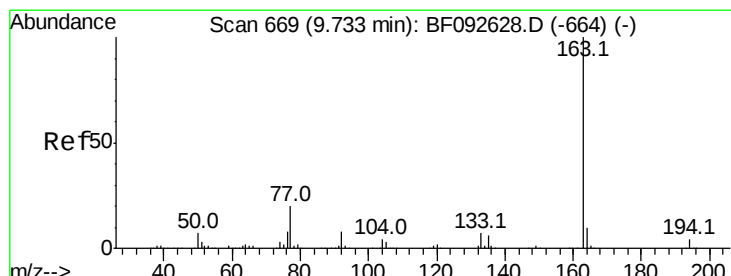
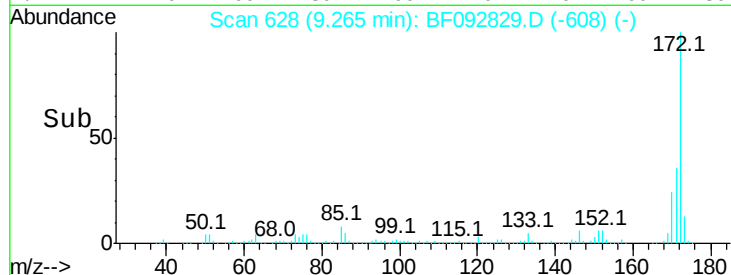
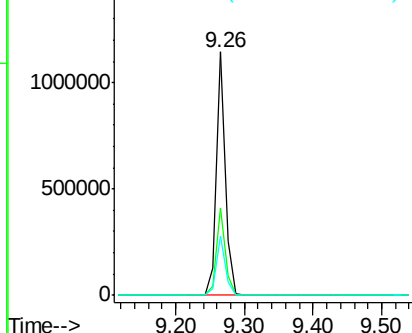
#44
2-Fluorobiphenyl
Concen: 70.05 ng
RT: 9.26 min Scan# 628
Delta R.T. -0.07 min
Lab File: BF092829.D
Acq: 7 Feb 2017 15:16

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 1067086
Ion Ratio Lower Upper
172 100
171 36.1 29.4 44.0
170 24.3 20.2 30.4

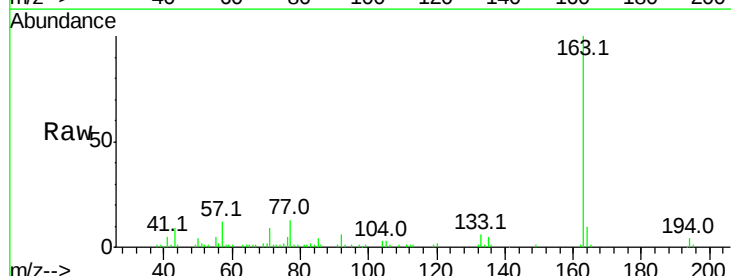


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

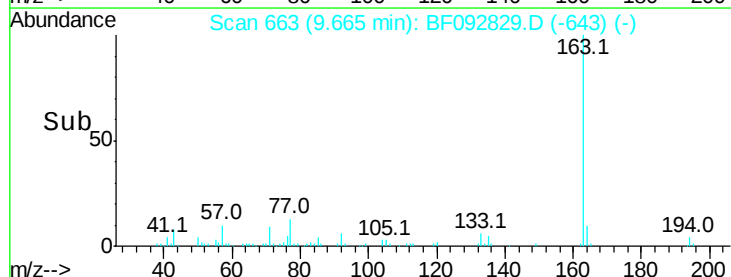
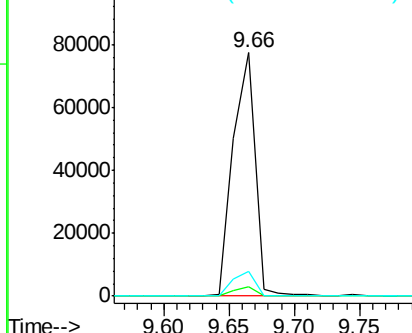


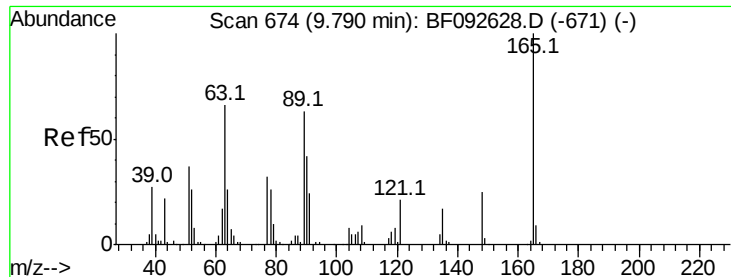
#49
Dimethylphthalate
Concen: 4.89 ng
RT: 9.66 min Scan# 663
Delta R.T. -0.07 min
Lab File: BF092829.D
Acq: 7 Feb 2017 15:16

Tgt Ion:163 Resp: 90937
Ion Ratio Lower Upper
163 100
194 4.0 3.0 4.4
164 10.0 8.0 12.0



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

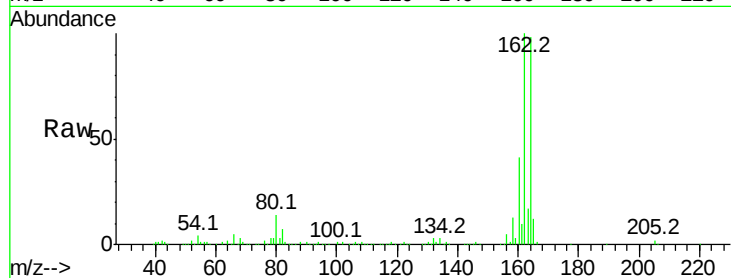




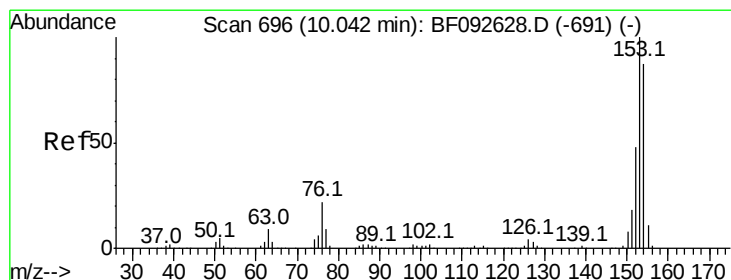
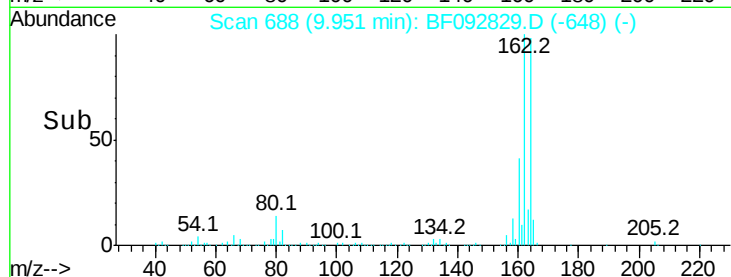
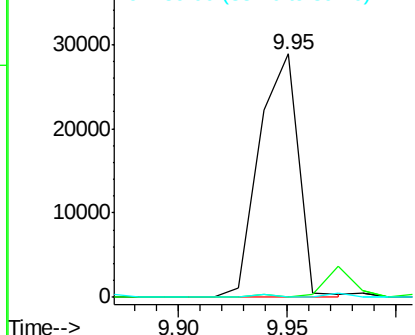
#50
 2,6-Dinitrotoluene
 Concen: 9.08 ng
 RT: 9.95 min Scan# 688
 Delta R.T. 0.16 min
 Lab File: BF092829.D
 Acq: 7 Feb 2017 15:16

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:165 Resp: 36450
 Ion Ratio Lower Upper
 165 100
 63 0.0 36.2 54.4#
 89 0.0 40.2 60.4#

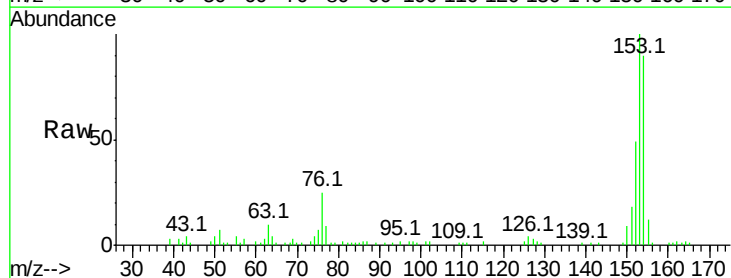


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

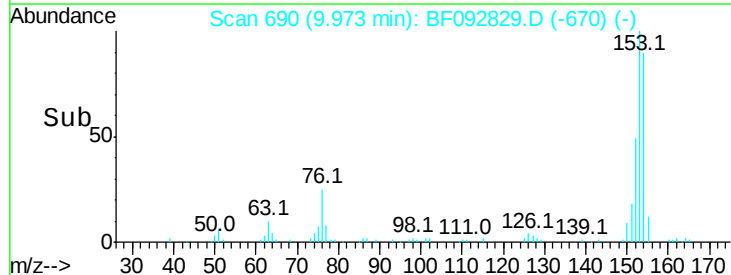
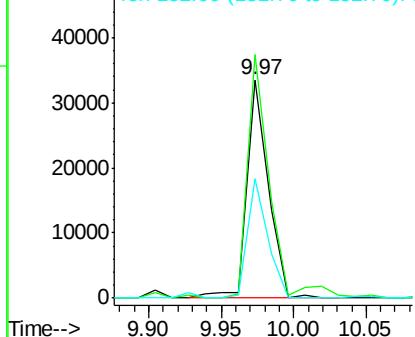


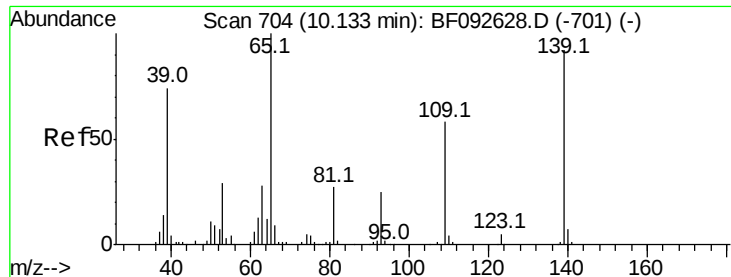
#51
 Acenaphthene
 Concen: 2.12 ng
 RT: 9.97 min Scan# 690
 Delta R.T. -0.07 min
 Lab File: BF092829.D
 Acq: 7 Feb 2017 15:16

Tgt Ion:154 Resp: 34156
 Ion Ratio Lower Upper
 154 100
 153 111.5 88.6 133.0
 152 54.4 41.6 62.4



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

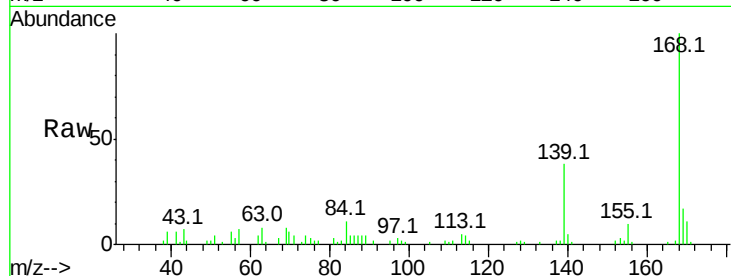




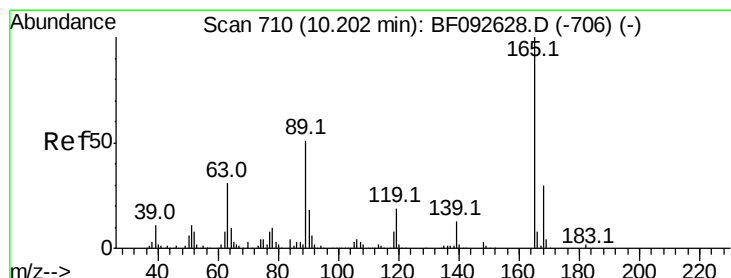
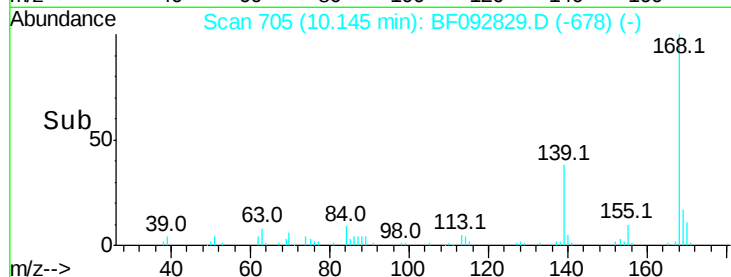
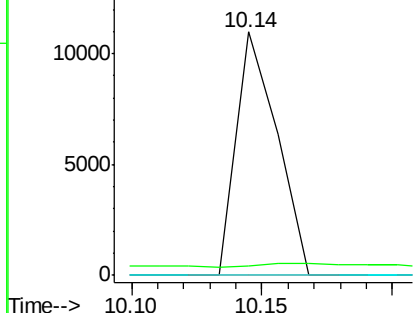
#55
4-Nitrophenol
Concen: 3.60 ng
RT: 10.14 min Scan# 705
Delta R.T. 0.01 min
Lab File: BF092829.D
Acq: 7 Feb 2017 15:16

Instrument :
BNA_F
ClientSampled :

Tot Ion:139 Resp: 11915
Ion Ratio Lower Upper
139 100
109 4.1 52.2 92.2#
65 0.0 85.8 125.8#

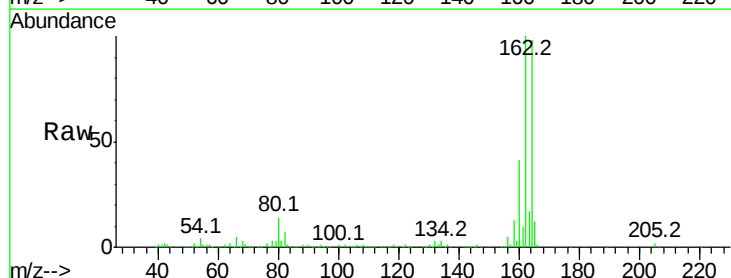


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

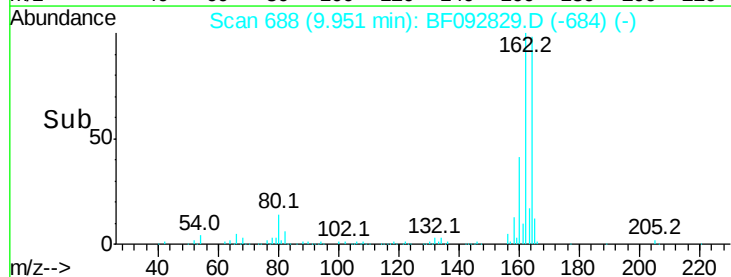
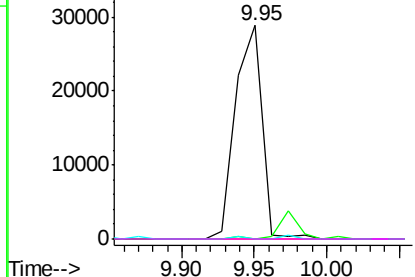


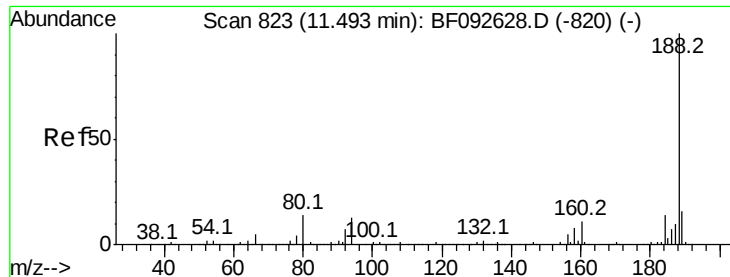
#56
2,4-Dinitrotoluene
Concen: 6.88 ng
RT: 9.95 min Scan# 688
Delta R.T. -0.25 min
Lab File: BF092829.D
Acq: 7 Feb 2017 15:16

Tgt Ion:165 Resp: 36787
Ion Ratio Lower Upper
165 100
63 0.0 40.2 60.4#
89 0.0 62.5 93.7#
182 0.0 1.8 2.8#



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

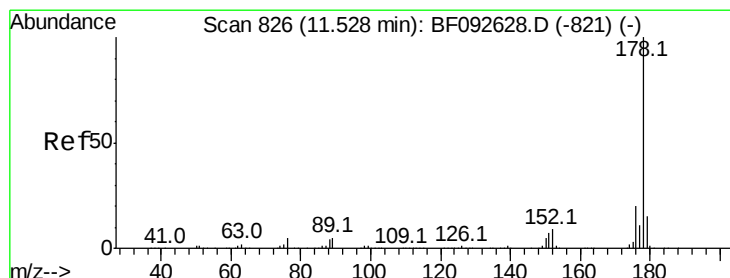
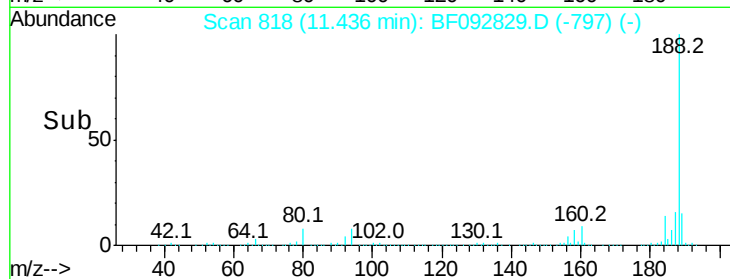
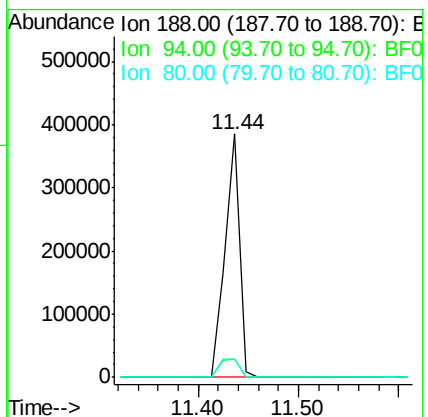
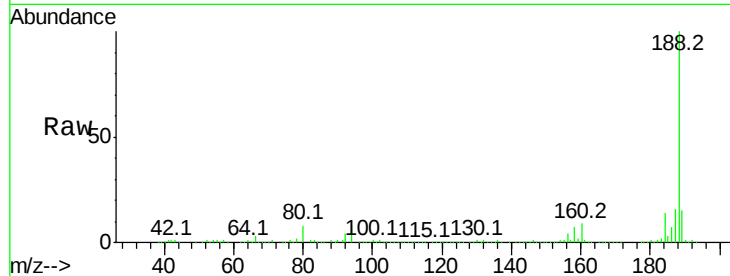




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.44 min Scan# 818
Delta R.T. -0.06 min
Lab File: BF092829.D
Acq: 7 Feb 2017 15:16

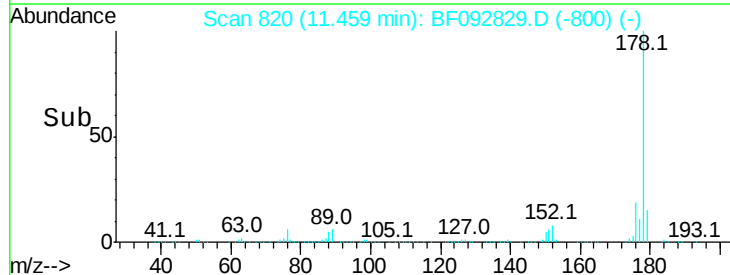
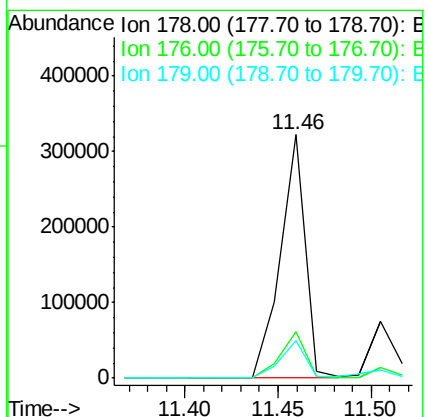
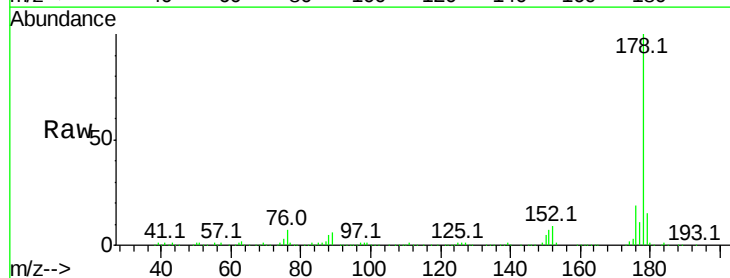
Instrument :
BNA_F
ClientSampled :

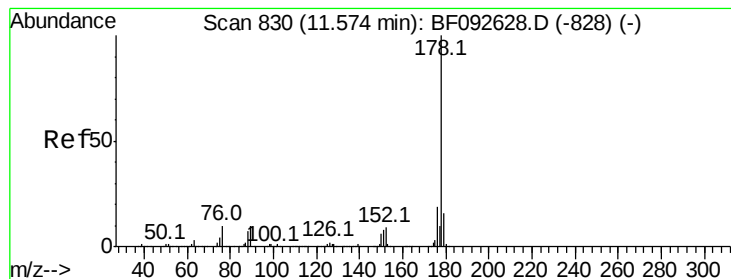
Tot Ion:188 Resp: 387416
Ion Ratio Lower Upper
188 100
94 7.5 10.0 15.0#
80 7.6 11.2 16.8#



#70
Phenanthrene
Concen: 13.39 ng
RT: 11.46 min Scan# 820
Delta R.T. -0.07 min
Lab File: BF092829.D
Acq: 7 Feb 2017 15:16

Tgt Ion:178 Resp: 297141
Ion Ratio Lower Upper
178 100
176 19.1 16.6 25.0
179 15.2 12.8 19.2





#71

Anthracene

Concen: 3.19 ng

RT: 11.50 min Scan# 824

Delta R.T. -0.07 min

Lab File: BF092829.D

Acq: 7 Feb 2017 15:16

Instrument :

BNA_F

ClientSampleId :

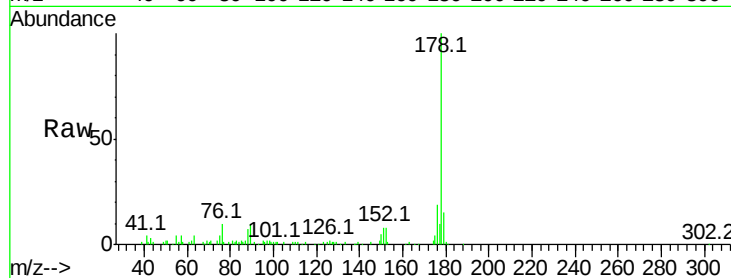
Tot Ion:178 Resp: 71197

Ion Ratio Lower Upper

178 100

176 18.7 15.9 23.9

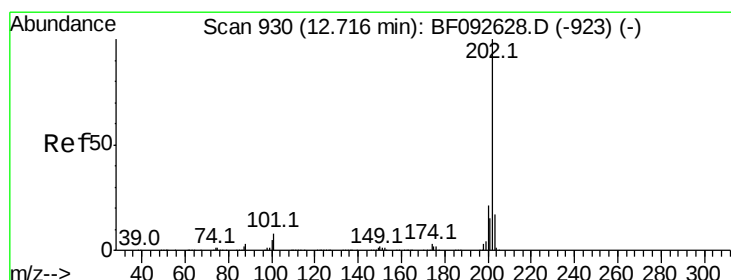
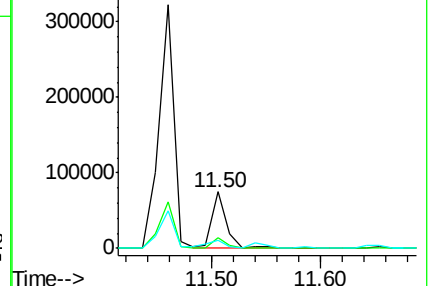
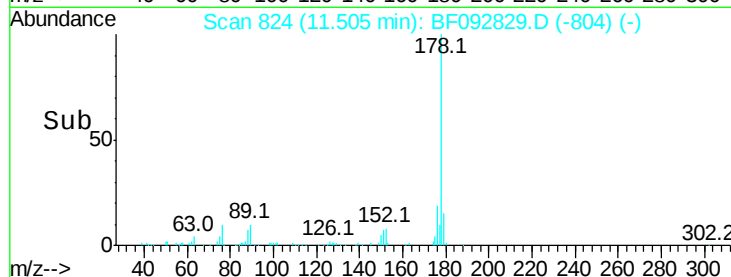
179 15.4 13.2 19.8



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



#74

Fluoranthene

Concen: 12.81 ng

RT: 12.65 min Scan# 924

Delta R.T. -0.07 min

Lab File: BF092829.D

Acq: 7 Feb 2017 15:16

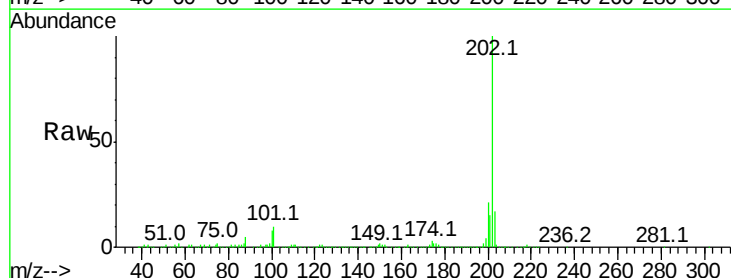
Tgt Ion:202 Resp: 293281

Ion Ratio Lower Upper

202 100

101 10.2 0.0 34.6

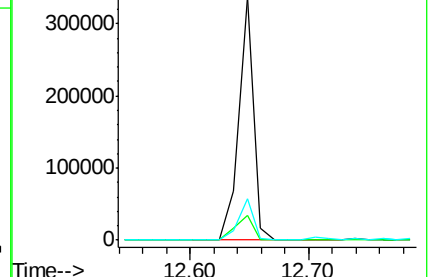
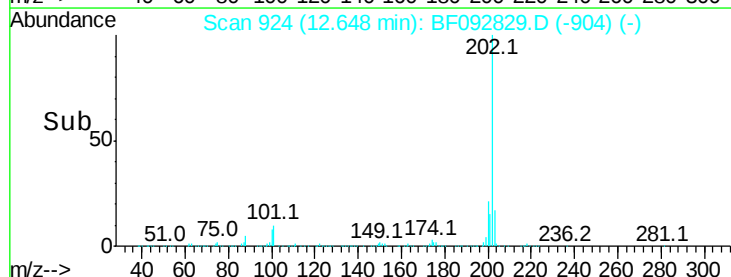
203 17.1 0.0 38.7

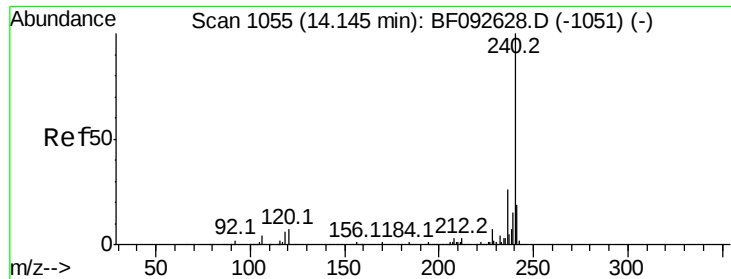


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.08 min Scan# 1049

Delta R.T. -0.07 min

Lab File: BF092829.D

Acq: 7 Feb 2017 15:16

Instrument :

BNA_F

ClientSampleId :

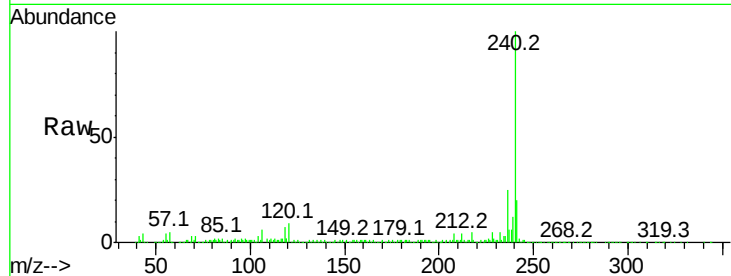
Tot Ion:240 Resp: 326646

Ion Ratio Lower Upper

240 100

120 9.3 12.9 19.3#

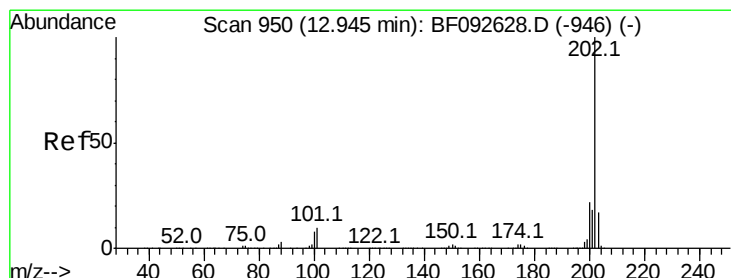
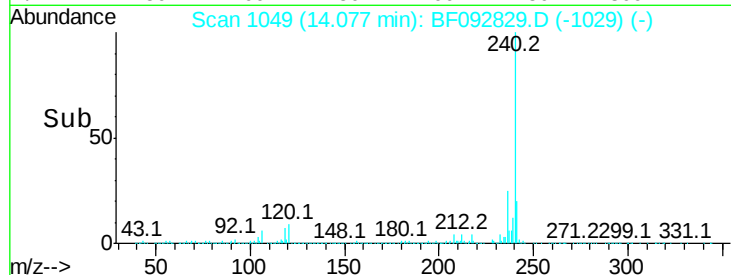
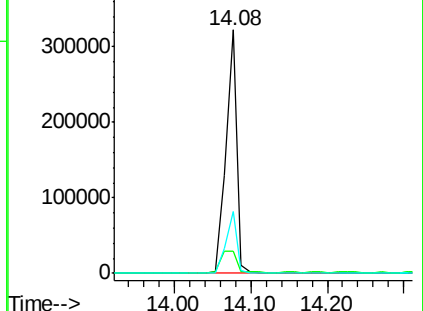
236 25.3 20.9 31.3



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: 9.90 ng

RT: 12.88 min Scan# 944

Delta R.T. -0.07 min

Lab File: BF092829.D

Acq: 7 Feb 2017 15:16

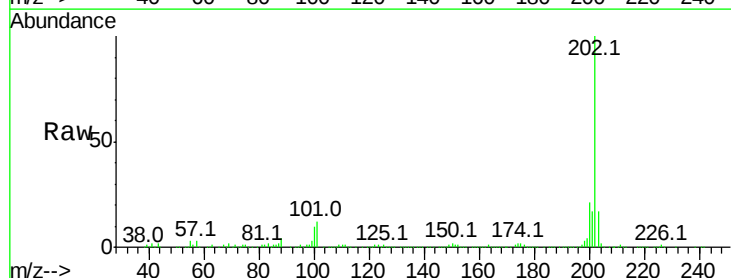
Tgt Ion:202 Resp: 242018

Ion Ratio Lower Upper

202 100

200 21.0 17.7 26.5

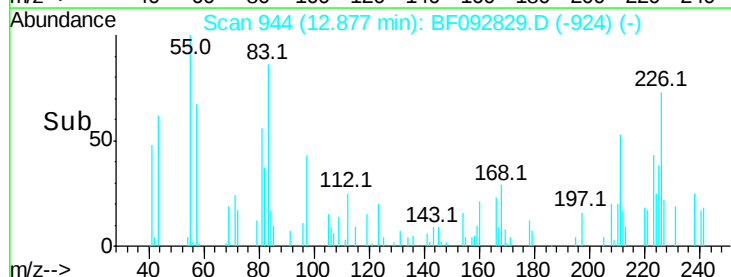
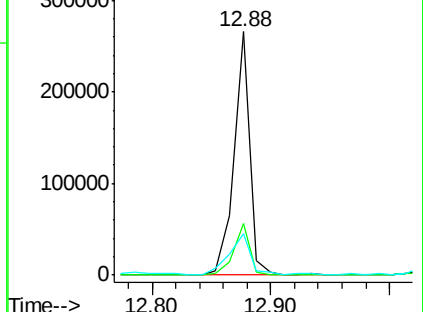
203 17.2 14.7 22.1

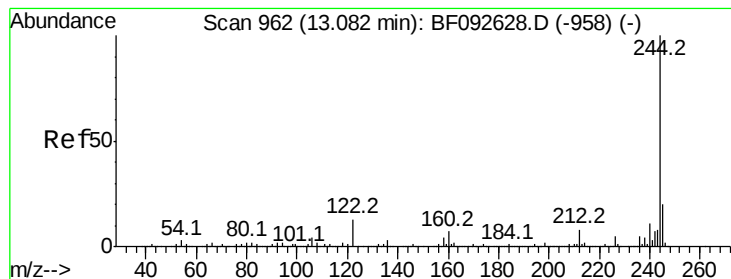


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 55.28 ng

RT: 13.03 min Scan# 957

Delta R.T. -0.06 min

Lab File: BF092829.D

Acq: 7 Feb 2017 15:16

Instrument :

BNA_F

ClientSampleId :

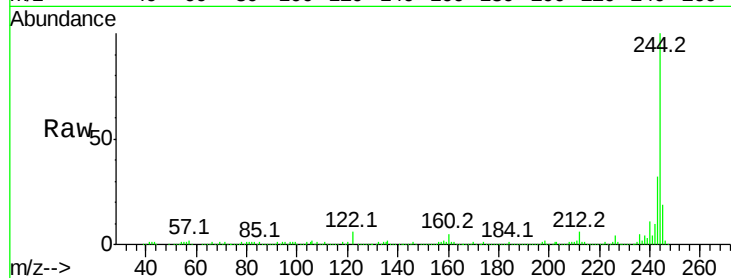
Tot Ion:244 Resp: 768485

Ion Ratio Lower Upper

244 100

212 6.2 6.2 9.2

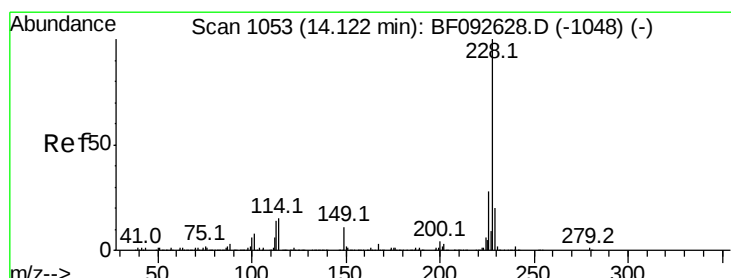
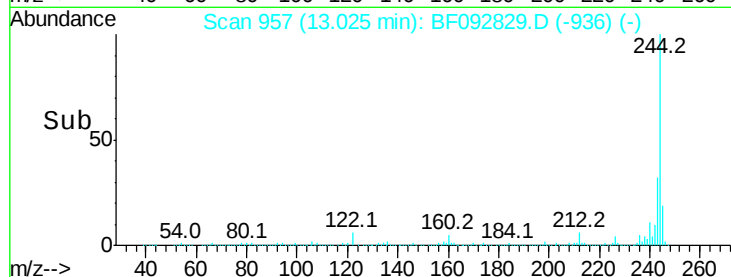
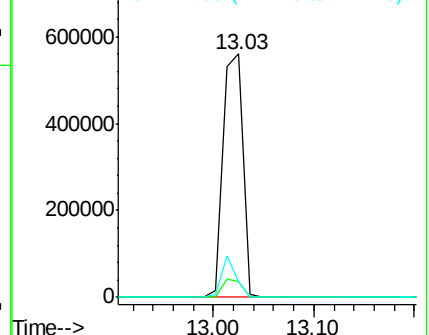
122 6.4 11.4 17.2#



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: 6.90 ng

RT: 14.07 min Scan# 1048

Delta R.T. -0.06 min

Lab File: BF092829.D

Acq: 7 Feb 2017 15:16

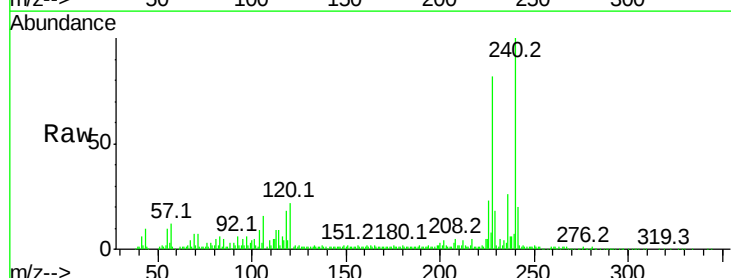
Tgt Ion:228 Resp: 137816

Ion Ratio Lower Upper

228 100

226 27.6 22.4 33.6

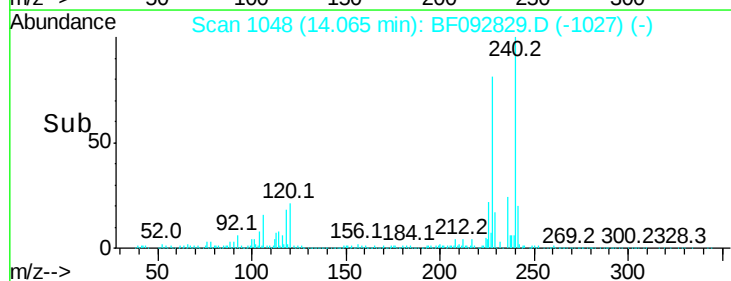
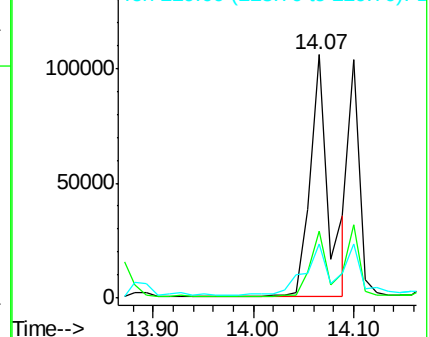
229 22.4 16.2 24.4

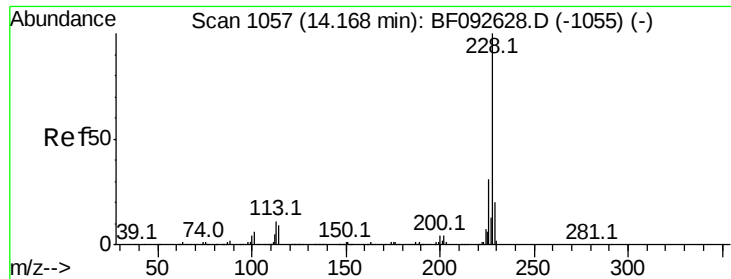


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 7.37 ng

RT: 14.07 min Scan# 1048

Delta R.T. -0.10 min

Lab File: BF092829.D

Acq: 7 Feb 2017 15:16

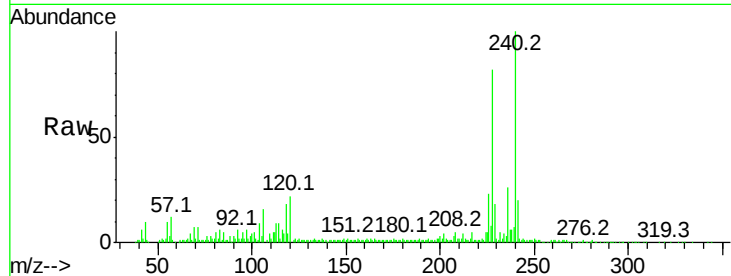
Instrument :

BNA_F

ClientSampleId :

Tot Ion:228 Resp: 137816

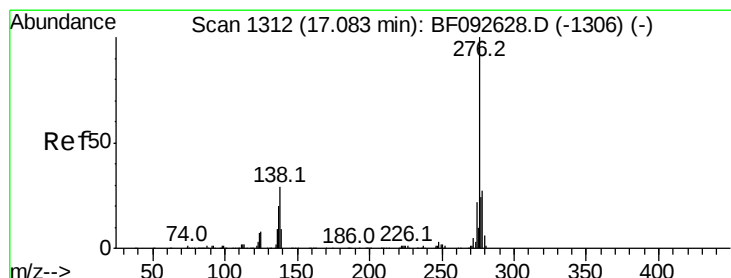
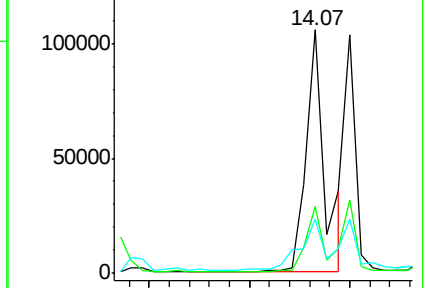
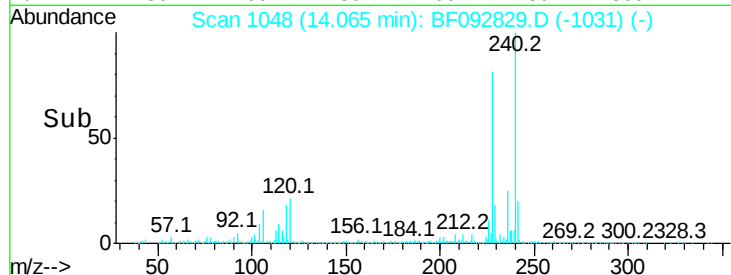
Ion	Ratio	Lower	Upper
228	100		
226	27.6	25.4	38.0
229	22.4	16.2	24.2



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 2.71 ng

RT: 16.97 min Scan# 1302

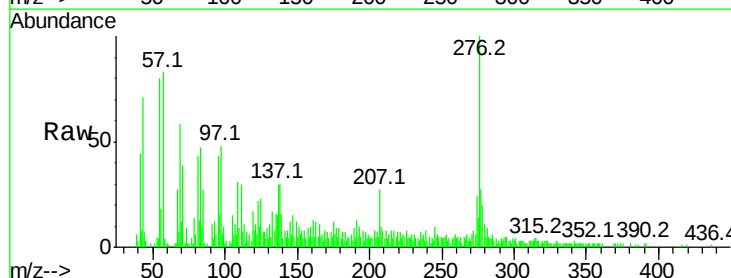
Delta R.T. -0.11 min

Lab File: BF092829.D

Acq: 7 Feb 2017 15:16

Tgt Ion:276 Resp: 39280

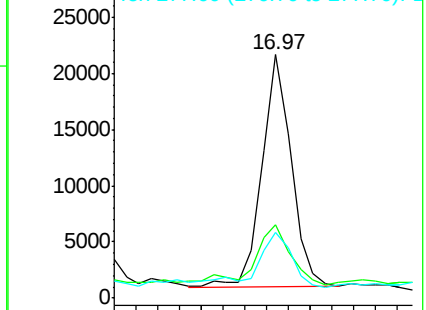
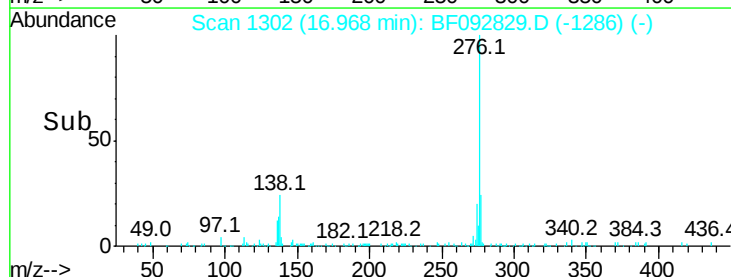
Ion	Ratio	Lower	Upper
276	100		
138	32.2	21.8	32.6
277	33.1	20.2	30.4

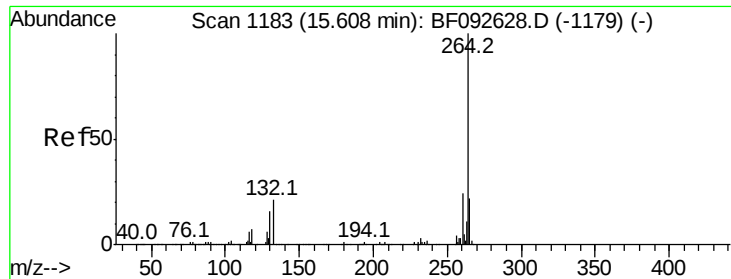


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

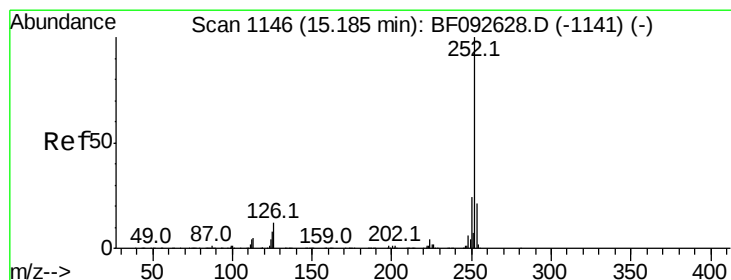
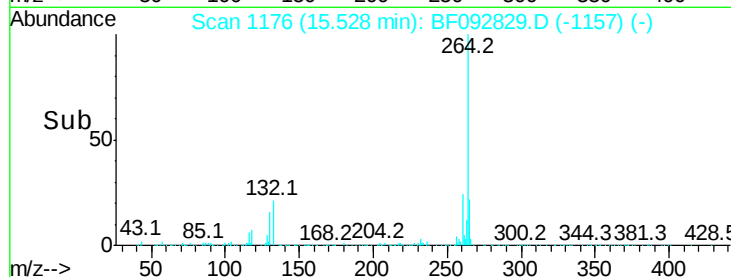
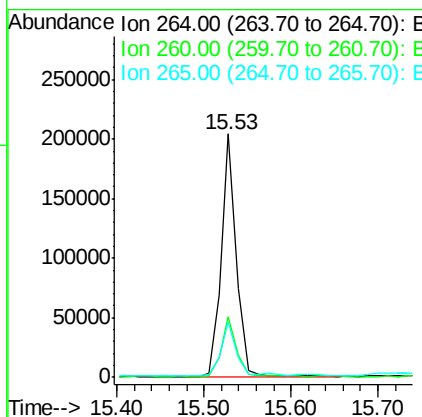
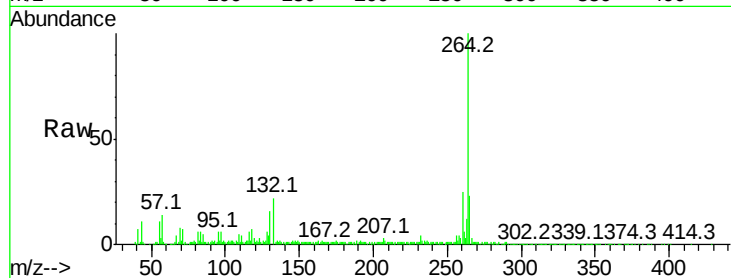




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.53 min Scan# 1176
Delta R.T. -0.08 min
Lab File: BF092829.D
Acq: 7 Feb 2017 15:16

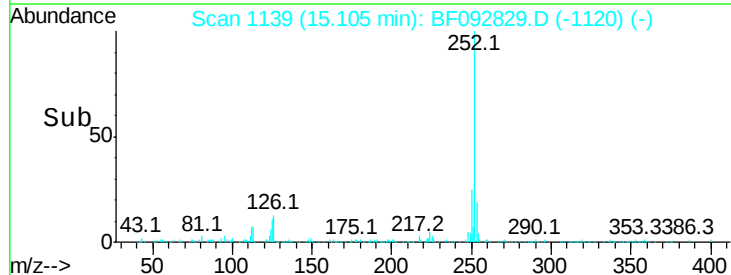
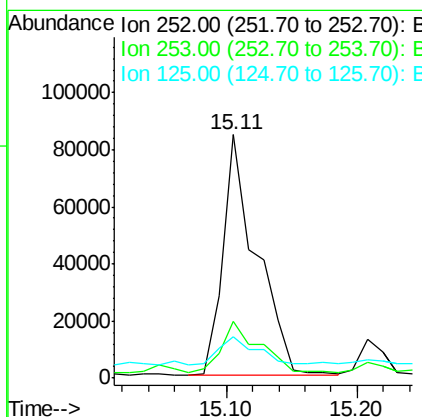
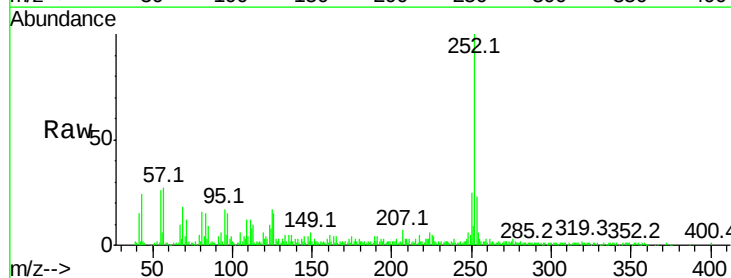
Instrument :
BNA_F
ClientSampleId :

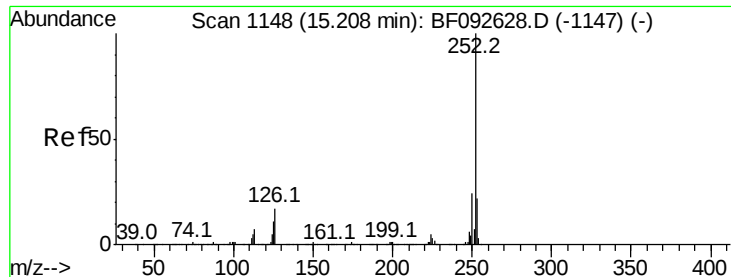
Tot Ion:264 Resp: 247290
Ion Ratio Lower Upper
264 100
260 24.8 19.2 28.8
265 22.6 17.4 26.0



#87
Benzo(b)fluoranthene
Concen: 9.35 ng
RT: 15.11 min Scan# 1139
Delta R.T. -0.08 min
Lab File: BF092829.D
Acq: 7 Feb 2017 15:16

Tgt Ion:252 Resp: 152211
Ion Ratio Lower Upper
252 100
253 23.4 18.2 27.4
125 16.7 9.8 14.6#

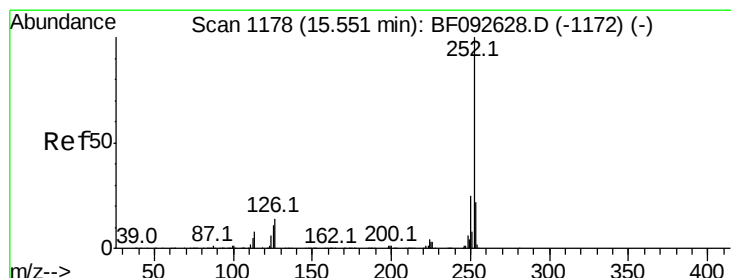
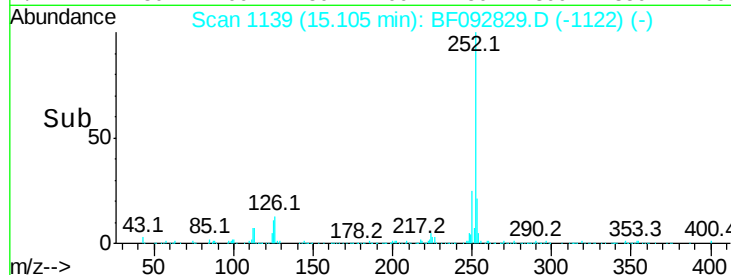
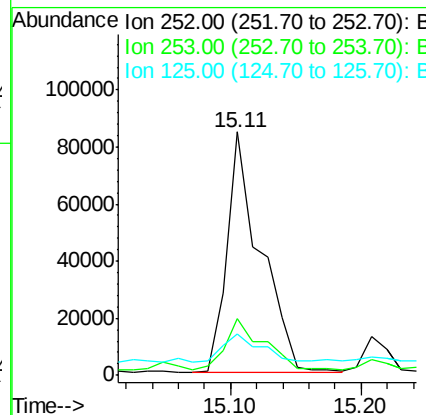
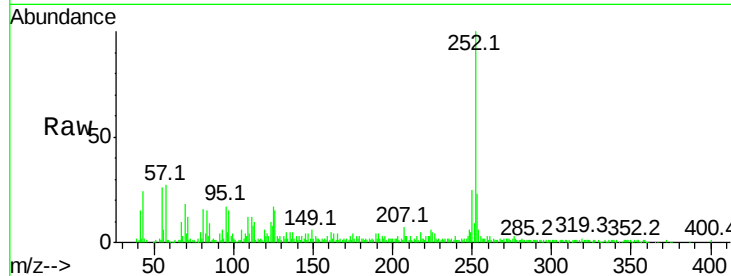




#88
Benzo(k)fluoranthene
Concen: 10.83 ng
RT: 15.11 min Scan# 1139
Delta R.T. -0.10 min
Lab File: BF092829.D
Acq: 7 Feb 2017 15:16

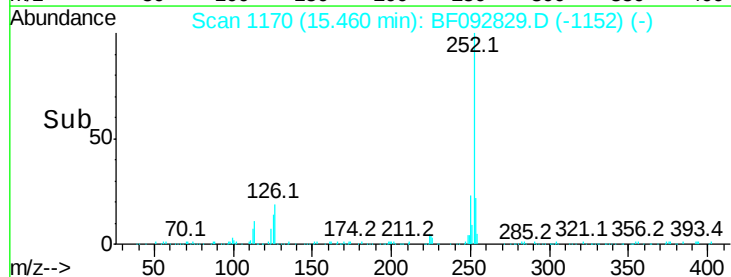
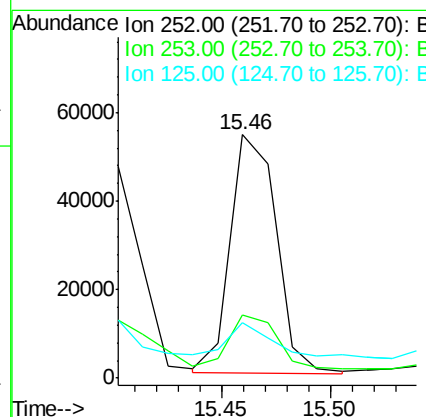
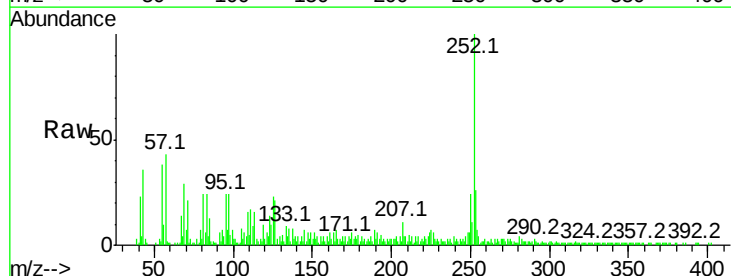
Instrument :
BNA_F
ClientSampleId :

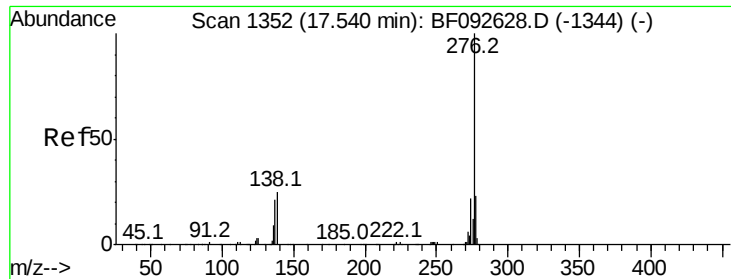
Tot Ion:252 Resp: 152211
Ion Ratio Lower Upper
252 100
253 23.4 18.5 27.7
125 16.7 8.9 13.3#



#89
Benzo(a)pyrene
Concen: 5.62 ng
RT: 15.46 min Scan# 1170
Delta R.T. -0.09 min
Lab File: BF092829.D
Acq: 7 Feb 2017 15:16

Tgt Ion:252 Resp: 79120
Ion Ratio Lower Upper
252 100
253 26.0 18.2 27.2
125 23.0 10.0 15.0#

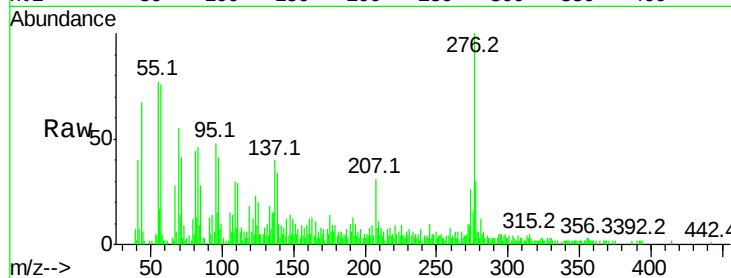




#91
 Benzo(a,h,i)perylene
 Concen: 3.96 ng
 RT: 17.40 min Scan# 1340
 Delta R.T. -0.14 min
 Lab File: BF092829.D
 Acq: 7 Feb 2017 15:16

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	30.3	19.2	28.8#
138	33.6	16.0	24.0#



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

