

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101915\
 Data File : BF082393.D
 Acq On : 20 Oct 2015 10:17
 Operator : UM/IZ
 Sample : G4046-04DL 500X
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MANAHAWKEN112DL2

Quant Time: Oct 20 11:30:46 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 12 01:46:21 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	83201	20.00	ng	-0.03
21) Naphthalene-d8	8.09	136	346298	20.00	ng	-0.03
38) Acenaphthene-d10	9.85	164	168528	20.00	ng	-0.03
63) Phenanthrene-d10	11.34	188	294591	20.00	ng	-0.03
75) Chrysene-d12	14.04	240	221500	20.00	ng	0.02
86) Perylene-d12	15.57	264	210304	20.00	ng	0.13

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	0.00	99	0	0.00	ng	
23) Nitrobenzene-d5	0.00	82	0	0.00	ng	
41) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
44) 2-Fluorobiphenyl	9.18	172	1255	0.12	ng	-0.03
78) Terphenyl-d14	12.93	244	1149	0.14	ng	-0.03

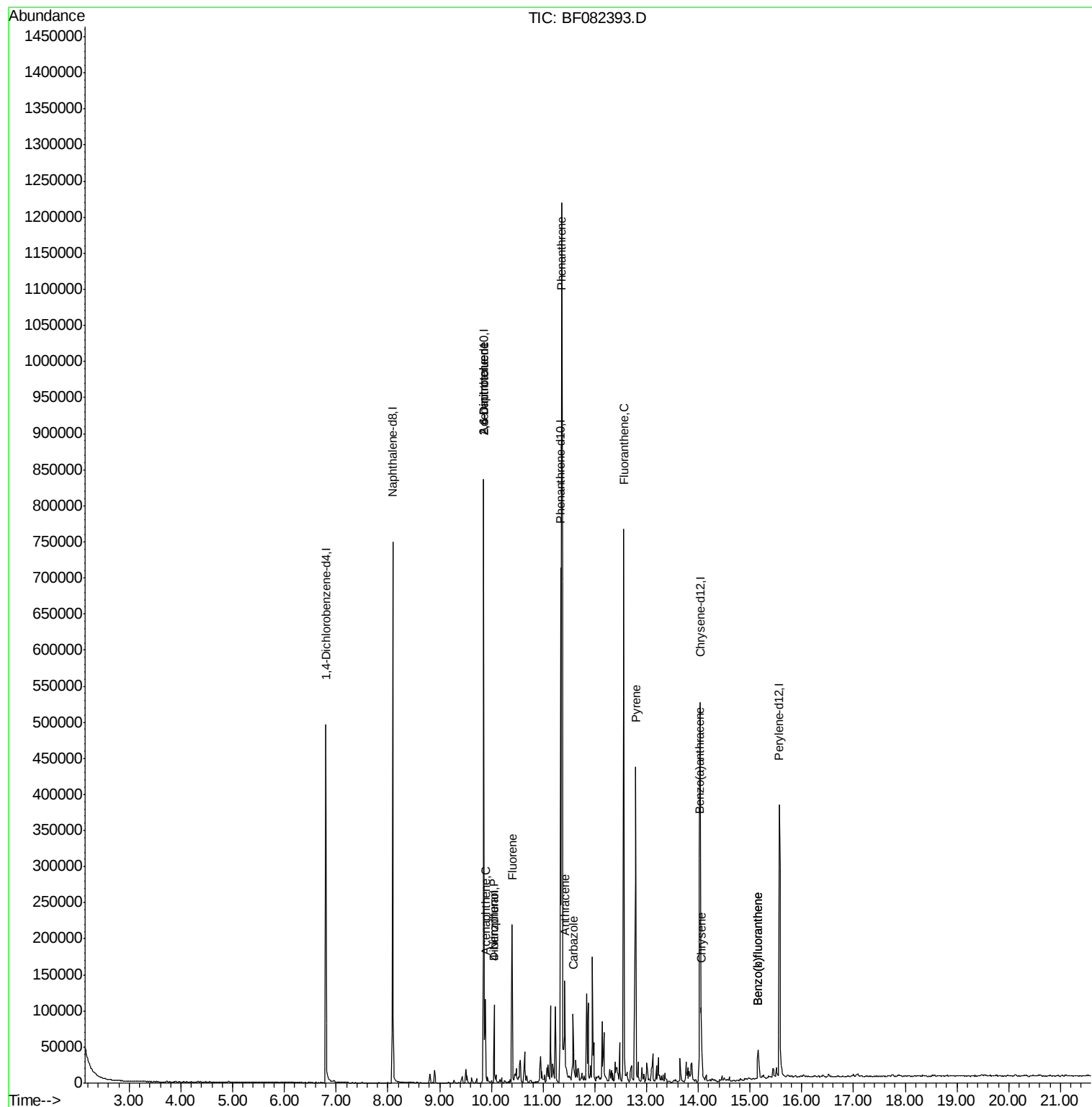
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
50) 2,6-Dinitrotoluene	9.85	165	21720	8.67	ng	# 32
51) Acenaphthene	9.89	154	34017	3.60	ng	99
54) Dibenzofuran	10.06	168	56812	4.37	ng	94
55) 4-Nitrophenol	10.06	139	19501	14.04	ng	# 11
56) 2,4-Dinitrotoluene	9.85	165	21721	6.94	ng	# 23
57) Fluorene	10.40	166	74807	7.01	ng	99
70) Phenanthrene	11.36	178	604288	41.85	ng	99
71) Anthracene	11.42	178	81038	5.45	ng	98
72) Carbazole	11.58	167	55985	4.12	ng	98
74) Fluoranthene	12.56	202	430728	27.77	ng	98
77) Pyrene	12.79	202	237435	18.06	ng	96
80) Benzo(a)anthracene	14.02	228	49443	4.29	ng	98
82) Chrysene	14.06	228	37845	3.12	ng	97
87) Benzo(b)fluoranthene	15.16	252	33547	2.62	ng	98
88) Benzo(k)fluoranthene	15.16	252	33547	3.12	ng	97

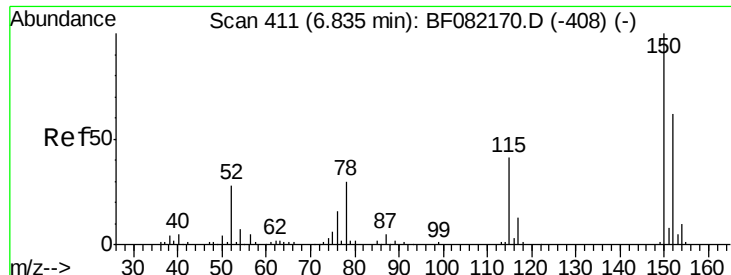
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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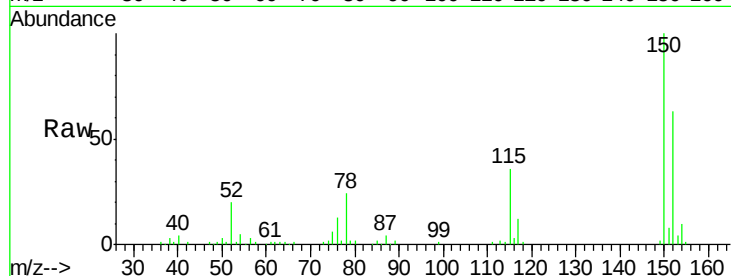


#1

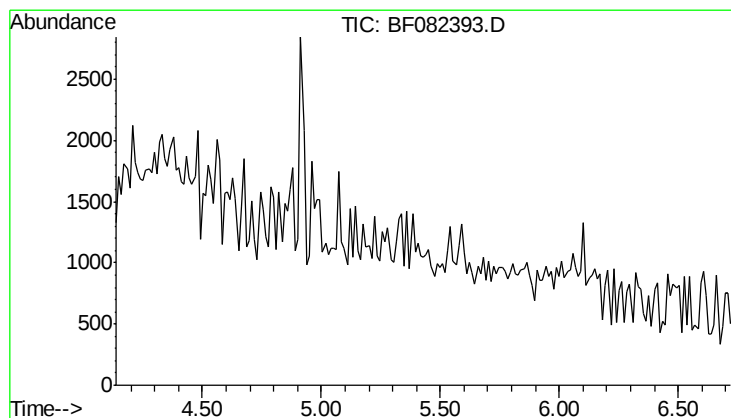
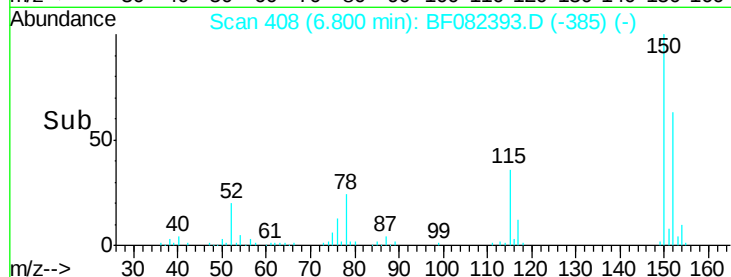
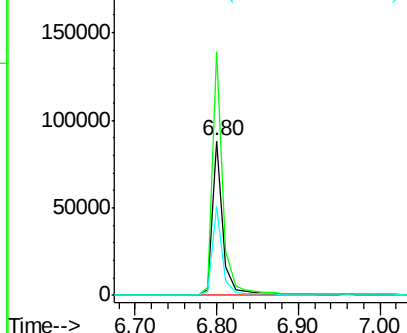
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.80 min Scan# 408
Delta R.T. -0.03 min
Lab File: BF082393.D
Acq: 20 Oct 2015 10:17

Instrument :
BNA_F
ClientSampleId :
MANAHAWKEN112DL2

Tot Ion:152 Resp: 83201
Ion Ratio Lower Upper
152 100
150 158.1 129.0 193.4
115 57.5 52.1 78.1



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

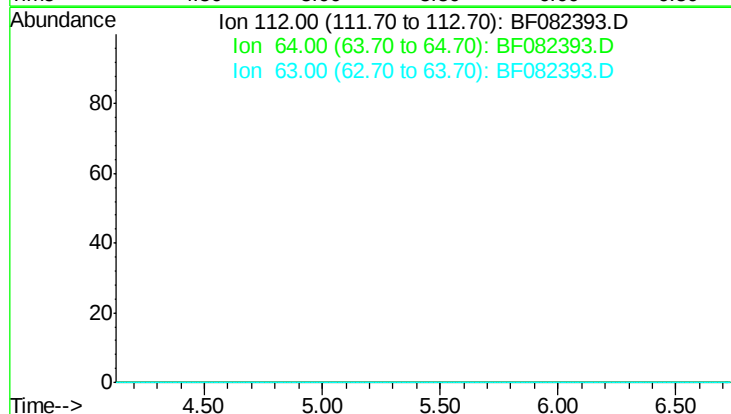


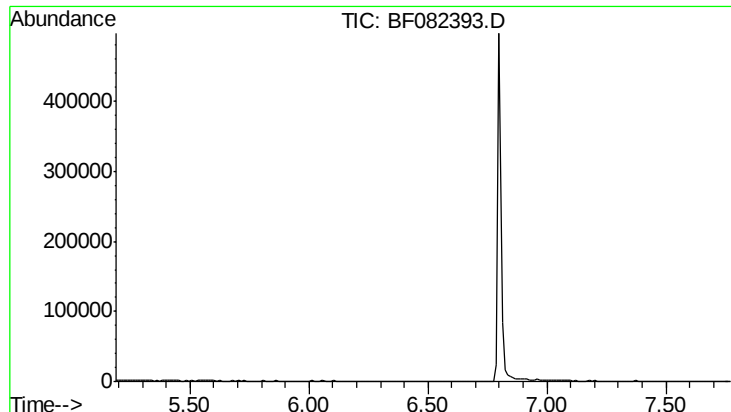
#5

2-Fluorophenol
Concen: 0.00 ng
Expected RT: 5.43 min

Lab File: BF082393.D
Acq: 20 Oct 2015 10:17

Tgt Ion: 112
Sig Exp Ratio
112 100
64 60.8
63 31.4

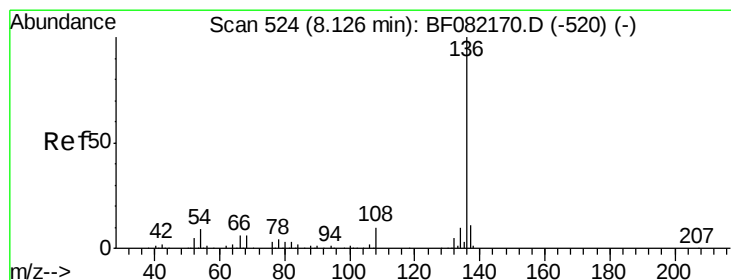
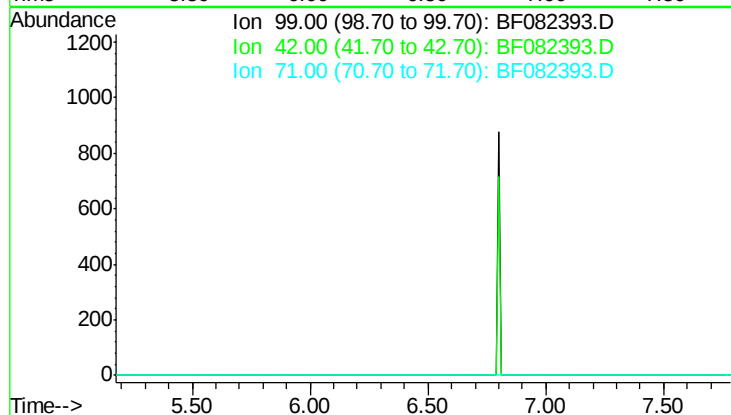




#7
 Phenol-d6
 Concen: 0.00 ng
 Expected RT: 6.48 min
 Lab File: BF082393.D
 Acq: 20 Oct 2015 10:17

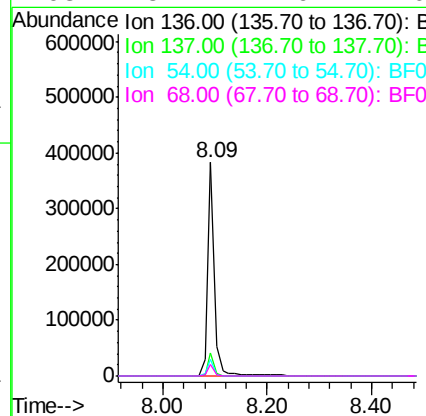
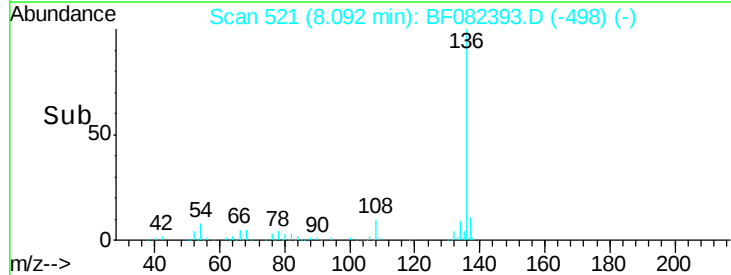
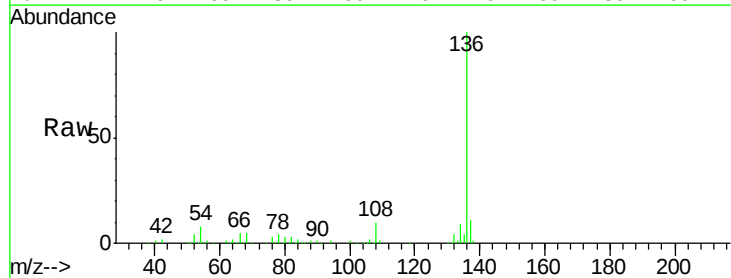
Instrument :
 BNA_F
 ClientSampleId :
 MANAHAWKEN112DL2

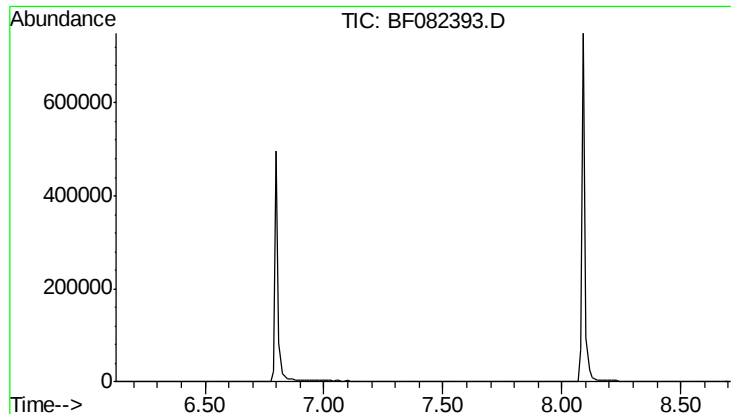
Tot Ion	Exp Ratio
99	100
42	16.5
71	32.0



#21
 Naphthalene-d8
 Concen: 20.00 ng
 RT: 8.09 min Scan# 521
 Delta R.T. -0.03 min
 Lab File: BF082393.D
 Acq: 20 Oct 2015 10:17

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	346298		
137	11.1		9.0	13.6
54	7.9		7.5	11.3
68	5.2		4.6	7.0

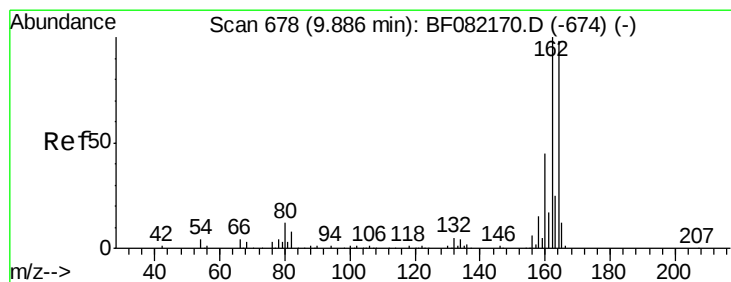
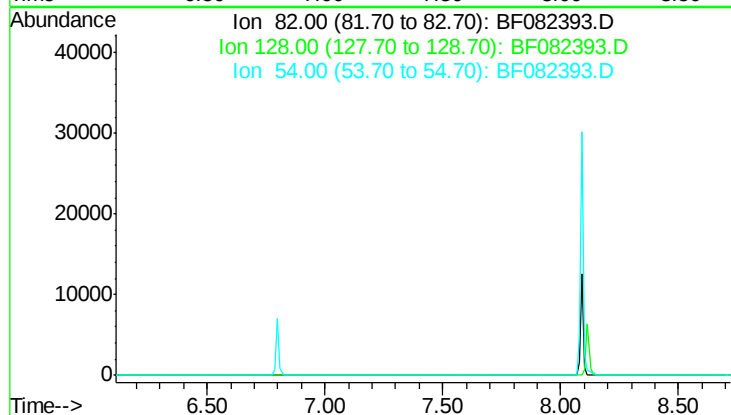




#23
 Nitrobenzene-d5
 Concen: 0.00 ng
 Expected RT: 7.42 min
 Lab File: BF082393.D
 Acq: 20 Oct 2015 10:17

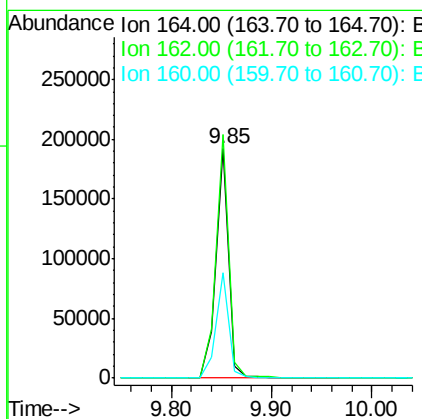
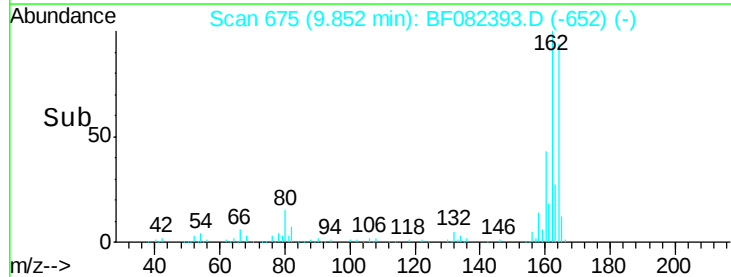
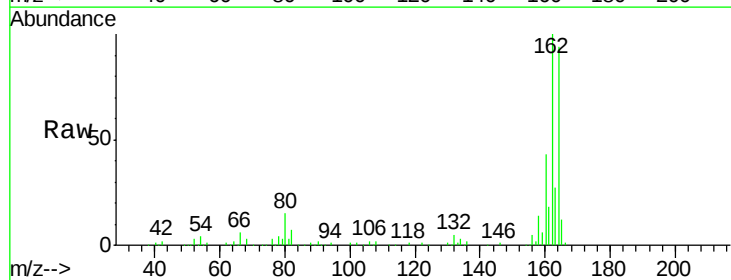
Instrument :
 BNA_F
 ClientSampleId :
 MANAHAWKEN112DL2

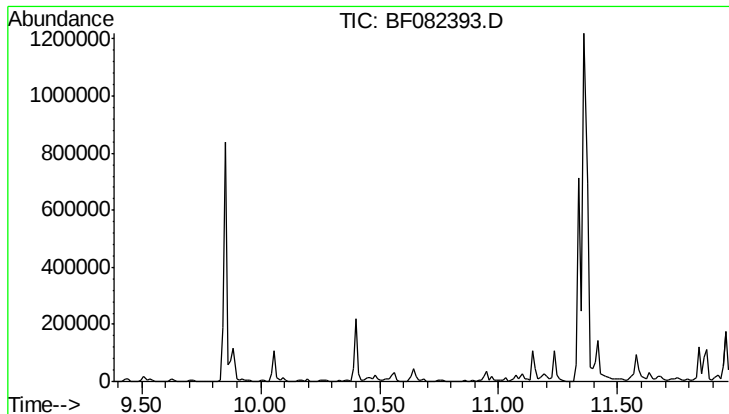
Tot Ion	82
Sig	Exp Ratio
82	100
128	48.4
54	50.1



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.85 min Scan# 675
 Delta R.T. -0.03 min
 Lab File: BF082393.D
 Acq: 20 Oct 2015 10:17

Tgt Ion	164	Resp	168528
Ion Ratio	Lower	Upper	
164	100		
162	106.3	81.6	122.4
160	46.1	36.4	54.6

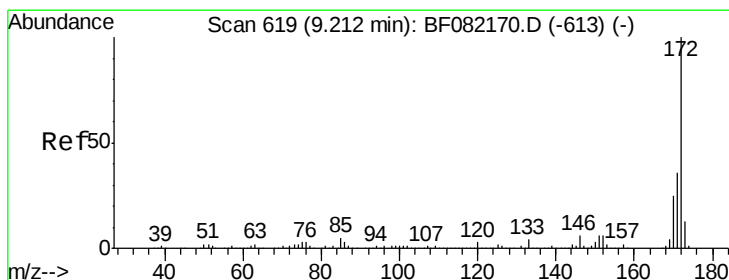
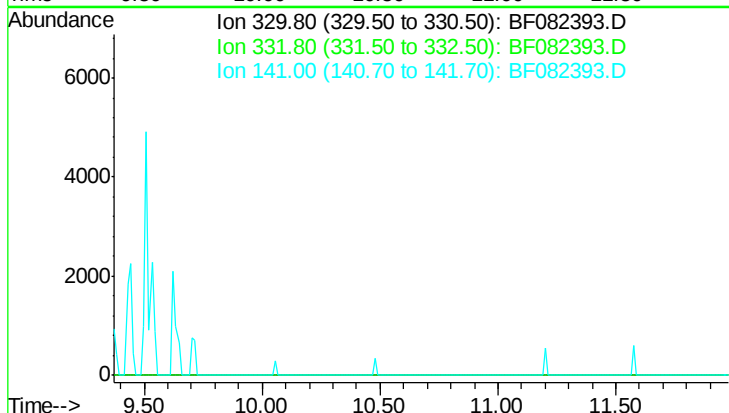




#41
 2,4,6-Tribromophenol
 Concen: 0.00 ng
 Expected RT: 10.67 min
 Lab File: BF082393.D
 Acq: 20 Oct 2015 10:17

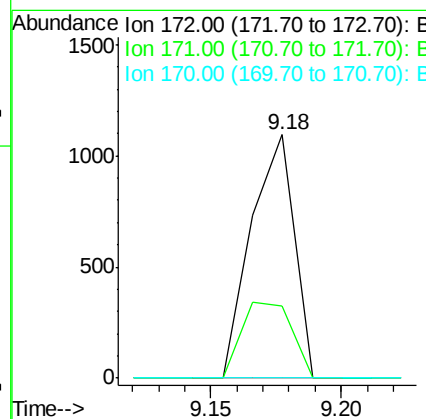
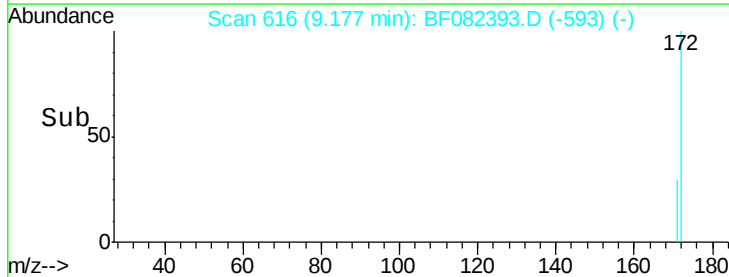
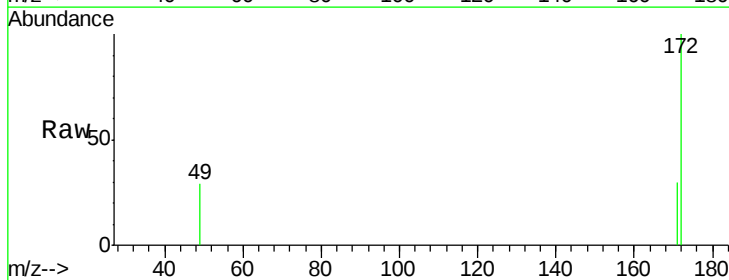
Instrument :
 BNA_F
 ClientSampleId :
 MANAHAWKEN112DL2

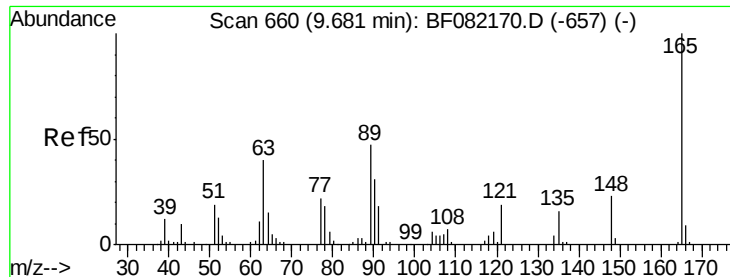
Tot Ion: 330
 Sig Exp Ratio
 330 100
 332 96.4
 141 37.3



#44
 2-Fluorobiphenyl
 Concen: 0.12 ng
 RT: 9.18 min Scan# 616
 Delta R.T. -0.03 min
 Lab File: BF082393.D
 Acq: 20 Oct 2015 10:17

Tgt Ion: 172 Resp: 1255
 Ion Ratio Lower Upper
 172 100
 171 29.7 28.6 42.8
 170 0.0 19.7 29.5#

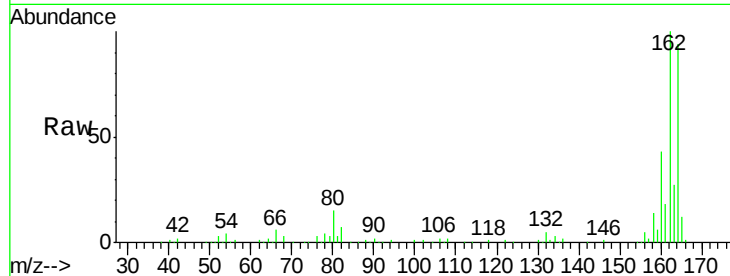




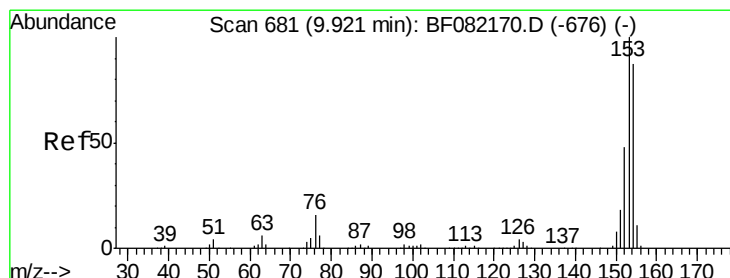
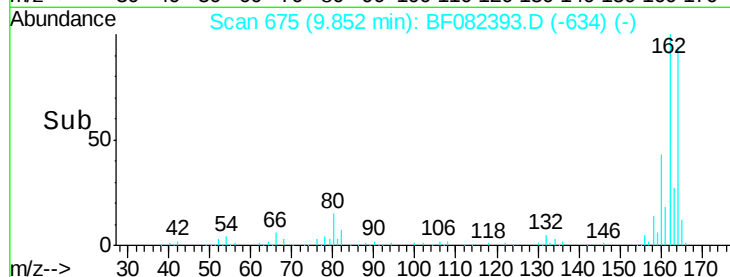
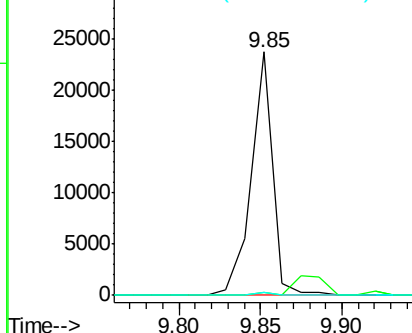
#50
2,6-Dinitrotoluene
Concen: 8.67 ng
RT: 9.85 min Scan# 675
Delta R.T. 0.17 min
Lab File: BF082393.D
Acq: 20 Oct 2015 10:17

Instrument :
BNA_F
ClientSampleId :
MANAHAWKEN112DL2

Tot Ion:165 Resp: 21720
Ion Ratio Lower Upper
165 100
63 1.4 36.7 55.1#
89 1.5 37.8 56.6#

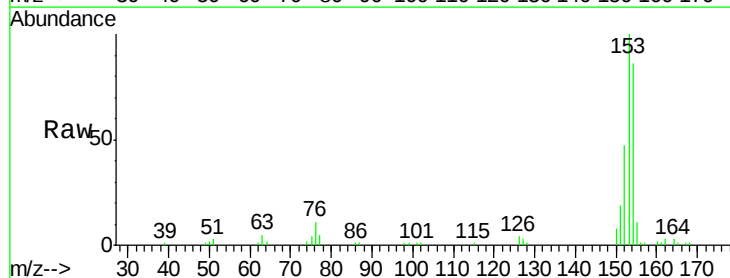


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0

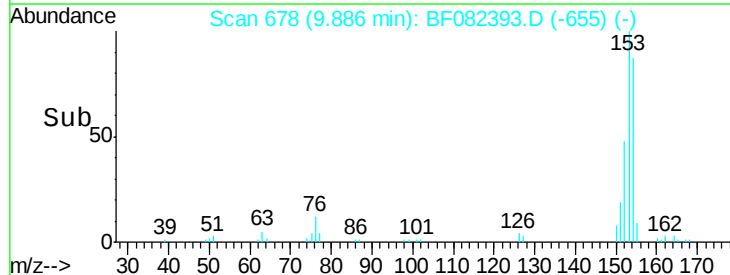
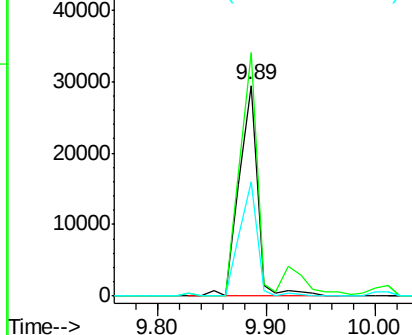


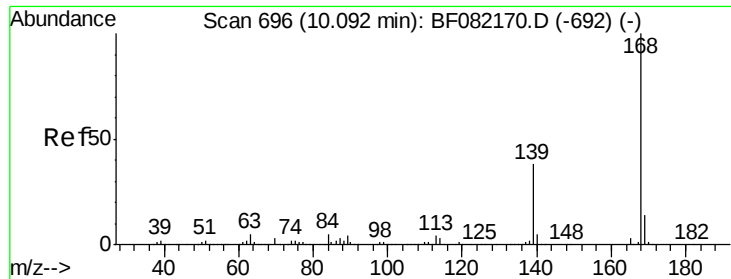
#51
Acenaphthene
Concen: 3.60 ng
RT: 9.89 min Scan# 678
Delta R.T. -0.03 min
Lab File: BF082393.D
Acq: 20 Oct 2015 10:17

Tgt Ion:154 Resp: 34017
Ion Ratio Lower Upper
154 100
153 115.8 91.4 137.2
152 54.6 44.3 66.5



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





#54

Dibenzofuran

Concen: 4.37 ng

RT: 10.06 min Scan# 693

Delta R.T. -0.03 min

Lab File: BF082393.D

Acq: 20 Oct 2015 10:17

Instrument :

BNA_F

ClientSampleId :

MANAHAWKEN112DL2

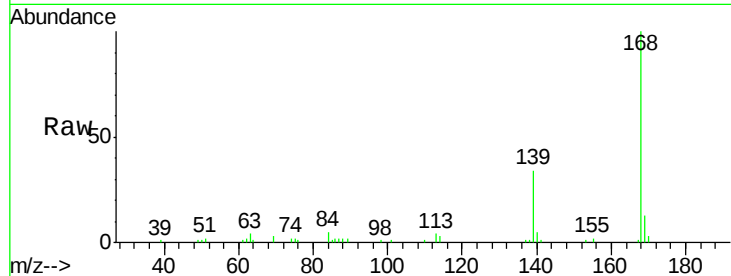
Tot Ion:168 Resp: 56812

Ion Ratio Lower Upper

168 100

139 34.3 31.0 46.6

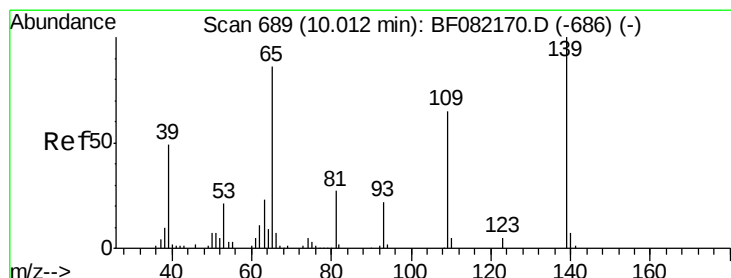
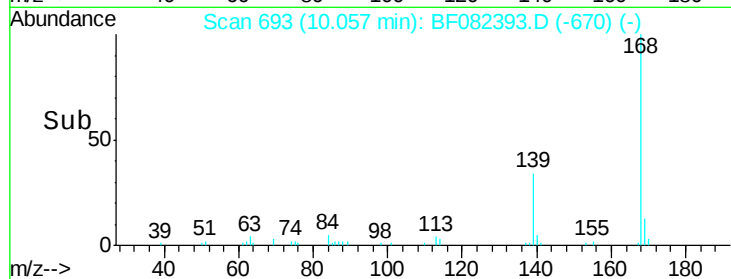
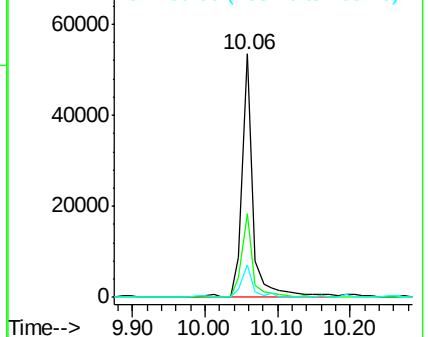
169 13.5 10.9 16.3



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 14.04 ng

RT: 10.06 min Scan# 693

Delta R.T. 0.05 min

Lab File: BF082393.D

Acq: 20 Oct 2015 10:17

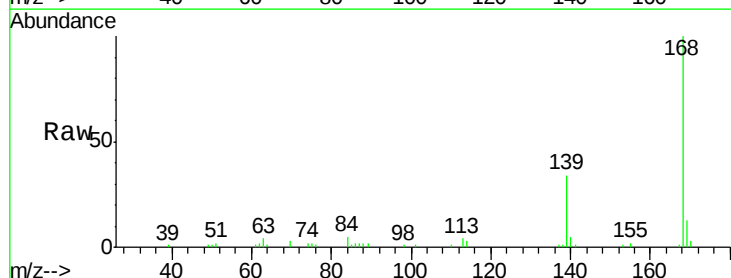
Tgt Ion:139 Resp: 19501

Ion Ratio Lower Upper

139 100

109 0.0 44.8 84.8#

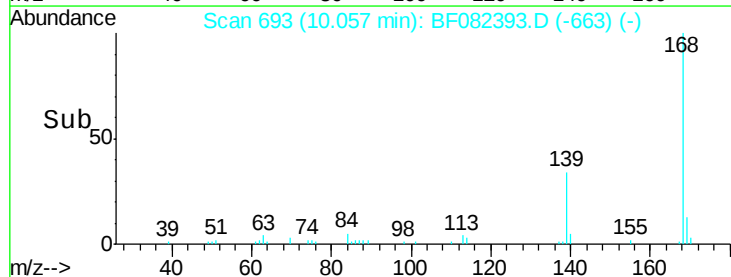
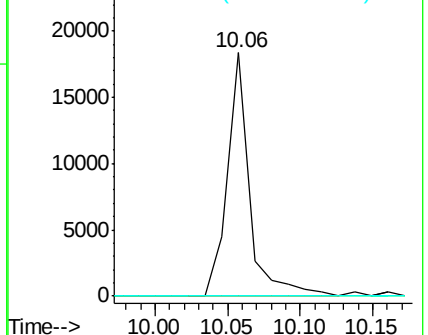
65 0.0 67.7 107.7#

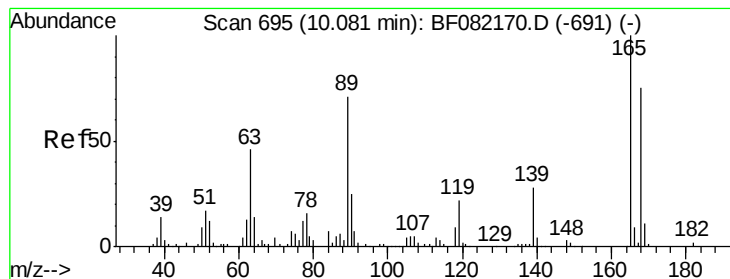


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0





#56

2,4-Dinitrotoluene

Concen: 6.94 ng

RT: 9.85 min Scan# 675

Delta R.T. -0.23 min

Lab File: BF082393.D

Acq: 20 Oct 2015 10:17

Instrument :

BNA_F

ClientSampleId :

MANAHAWKEN112DL2

Tot Ion:165 Resp: 21721

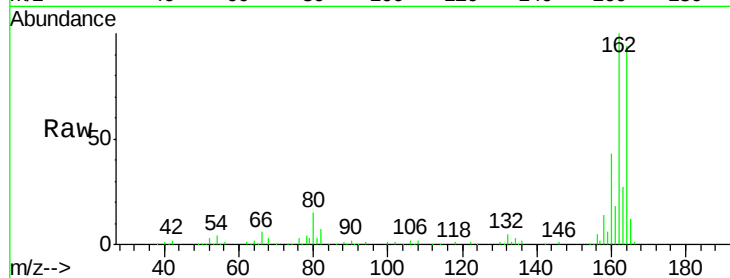
Ion Ratio Lower Upper

165 100

63 1.4 38.6 58.0#

89 1.5 57.0 85.6#

182 0.0 1.8 2.6#

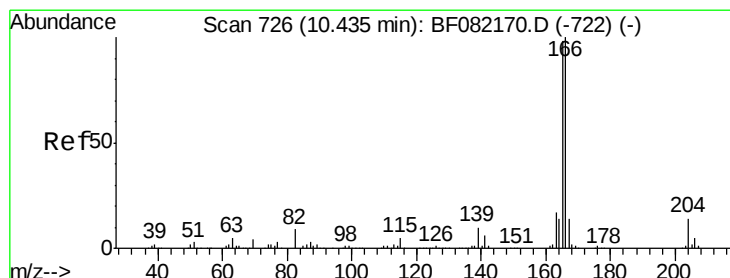
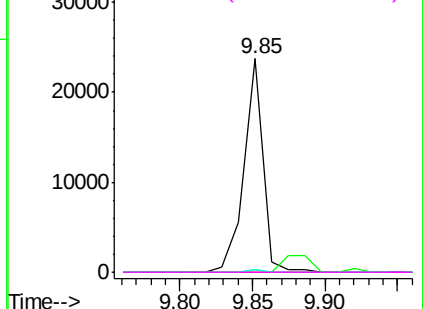
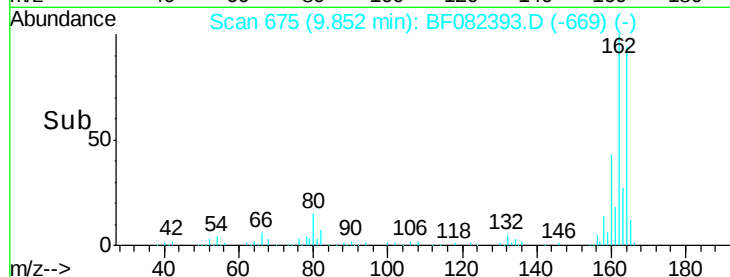


Abundance Ion 165.00 (164.70 to 165.70): E

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: 7.01 ng

RT: 10.40 min Scan# 723

Delta R.T. -0.03 min

Lab File: BF082393.D

Acq: 20 Oct 2015 10:17

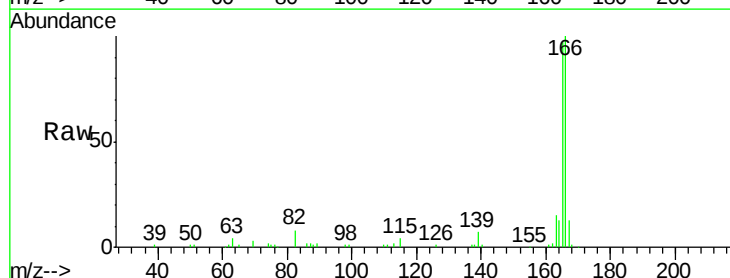
Tgt Ion:166 Resp: 74807

Ion Ratio Lower Upper

166 100

165 97.2 78.3 117.5

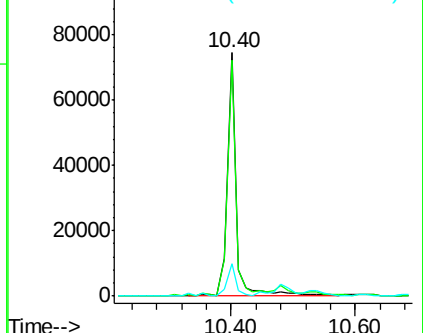
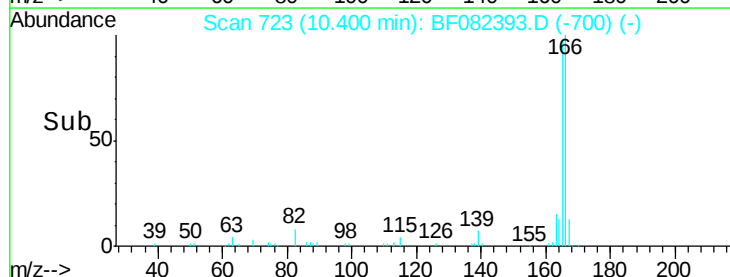
167 13.3 10.8 16.2

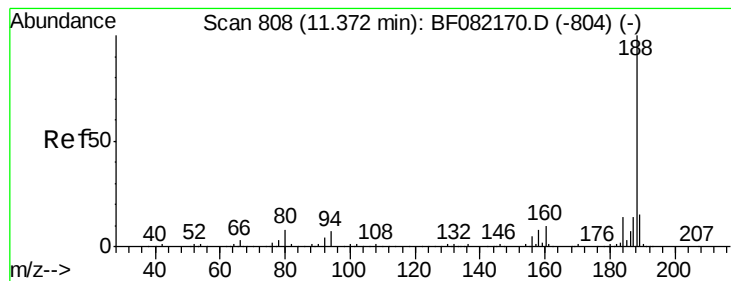


Abundance Ion 166.00 (165.70 to 166.70): E

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: 11.34 min Scan# 805

Delta R.T. -0.03 min

Lab File: BF082393.D

Acq: 20 Oct 2015 10:17

Instrument :

BNA_F

ClientSampleId :

MANAHAWKEN112DL2

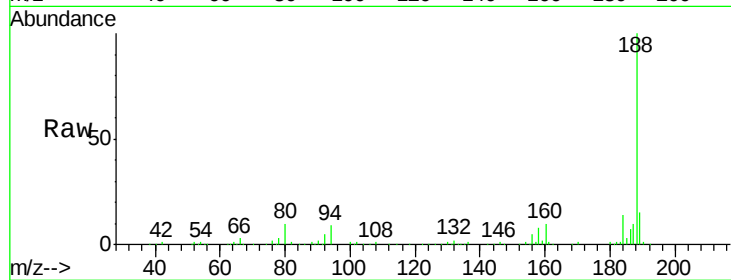
Tot Ion:188 Resp: 294591

Ion Ratio Lower Upper

188 100

94 9.1 5.8 8.6#

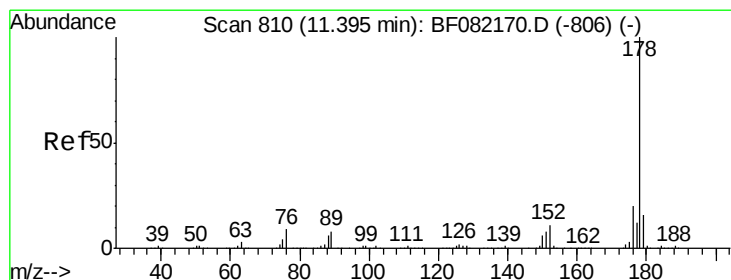
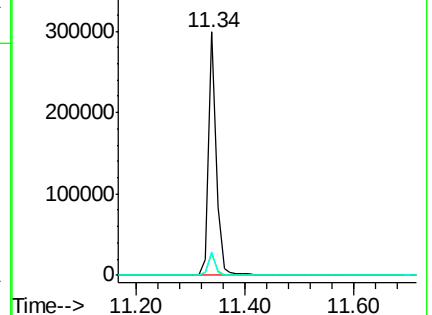
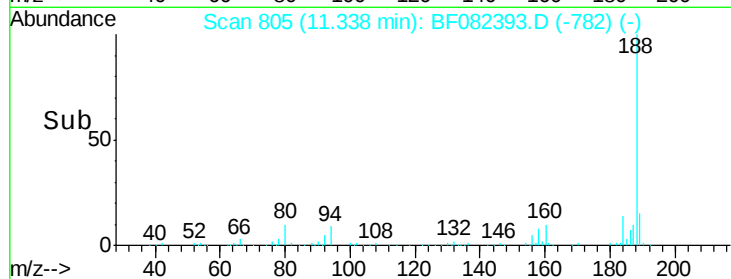
80 9.5 6.4 9.6



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: 41.85 ng

RT: 11.36 min Scan# 807

Delta R.T. -0.03 min

Lab File: BF082393.D

Acq: 20 Oct 2015 10:17

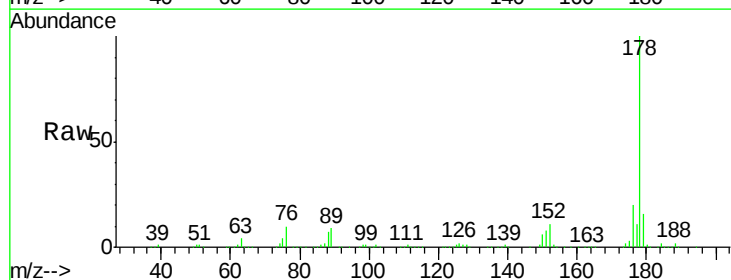
Tgt Ion:178 Resp: 604288

Ion Ratio Lower Upper

178 100

176 19.6 16.0 24.0

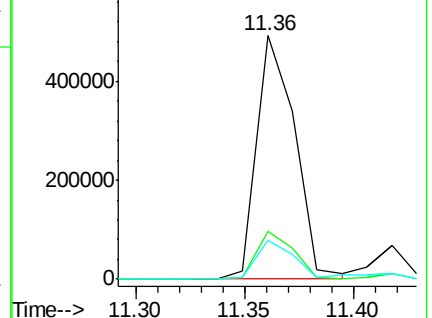
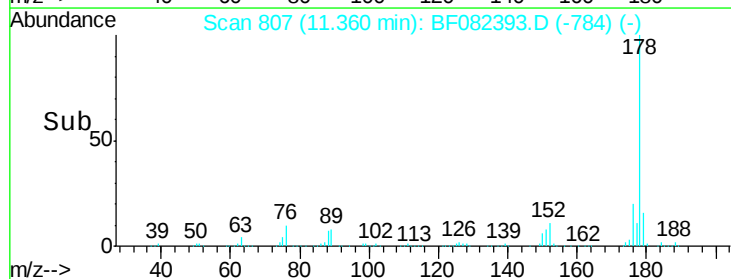
179 15.9 12.6 19.0

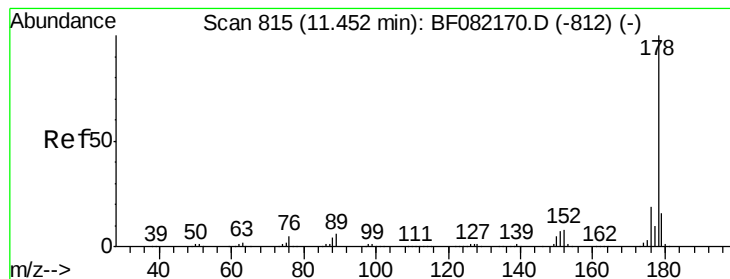


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 5.45 ng

RT: 11.42 min Scan# 812

Delta R.T. -0.03 min

Lab File: BF082393.D

Acq: 20 Oct 2015 10:17

Instrument :

BNA_F

ClientSampleId :

MANAHAWKEN112DL2

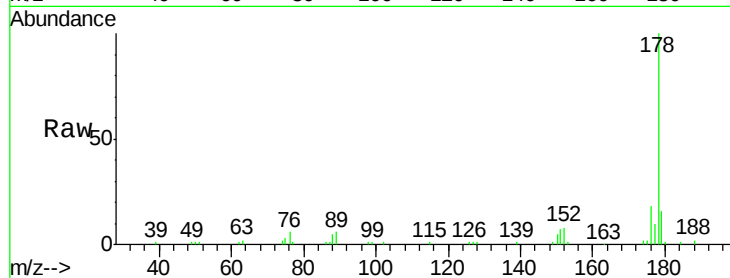
Tot Ion:178 Resp: 81038

Ion Ratio Lower Upper

178 100

176 17.8 15.4 23.0

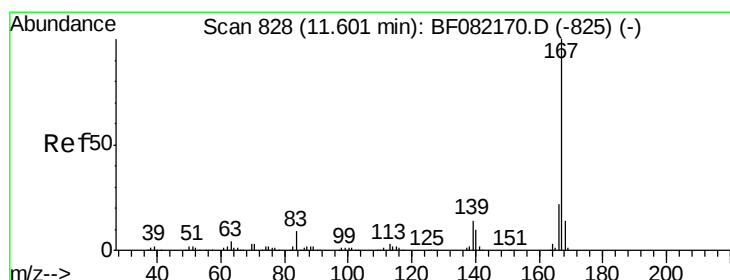
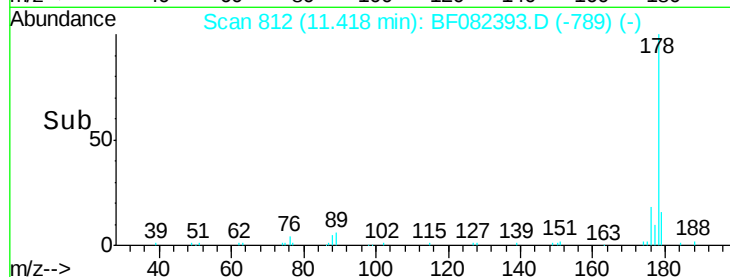
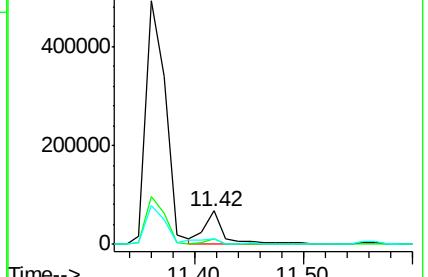
179 16.0 12.5 18.7



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: 4.12 ng

RT: 11.58 min Scan# 826

Delta R.T. -0.02 min

Lab File: BF082393.D

Acq: 20 Oct 2015 10:17

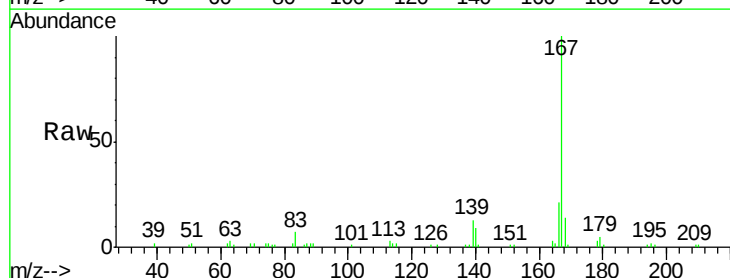
Tgt Ion:167 Resp: 55985

Ion Ratio Lower Upper

167 100

166 21.4 17.3 25.9

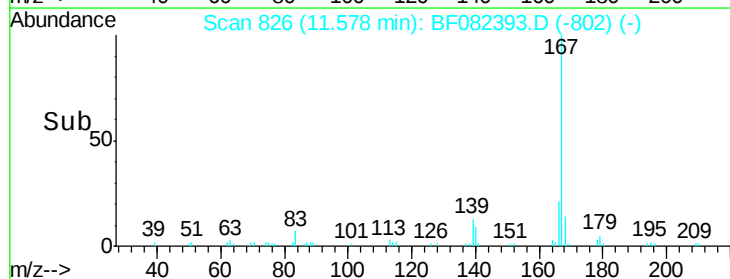
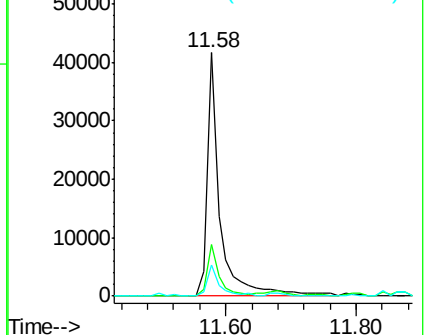
139 12.7 11.2 16.8

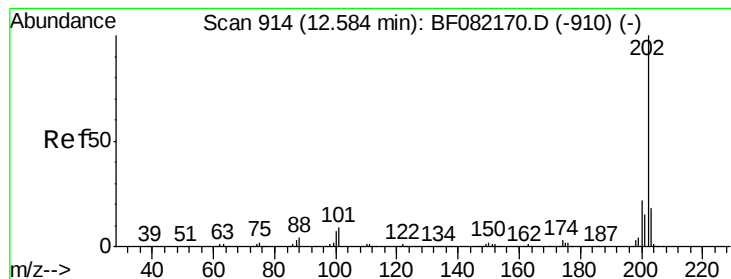


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 27.77 ng

RT: 12.56 min Scan# 912

Delta R.T. -0.02 min

Lab File: BF082393.D

Acq: 20 Oct 2015 10:17

Instrument :

BNA_F

ClientSampleId :

MANAHAWKEN112DL2

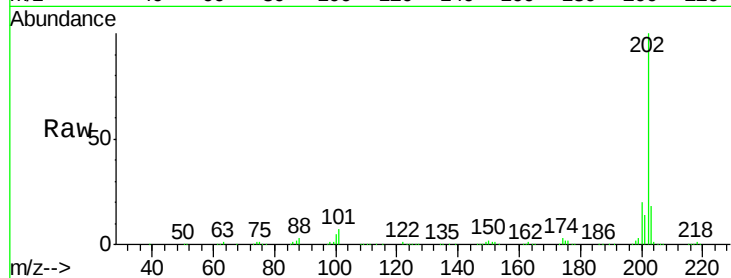
Tot Ion:202 Resp: 430728

Ion Ratio Lower Upper

202 100

101 6.9 0.0 29.3

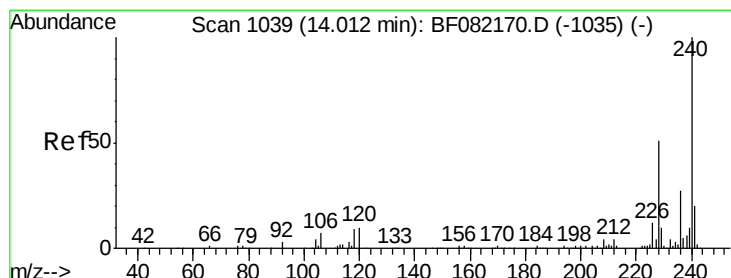
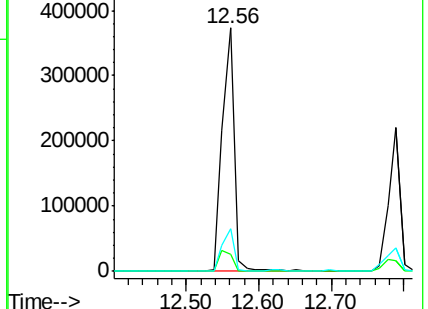
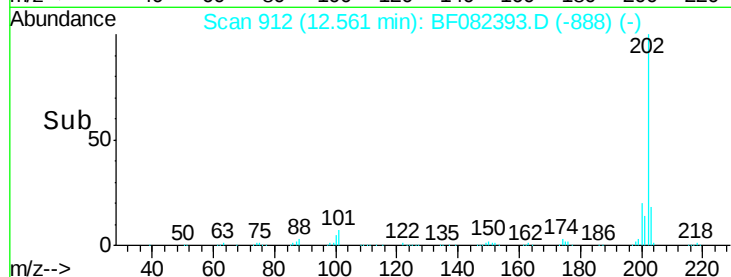
203 17.6 0.0 37.8



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: 14.04 min Scan# 1041

Delta R.T. 0.02 min

Lab File: BF082393.D

Acq: 20 Oct 2015 10:17

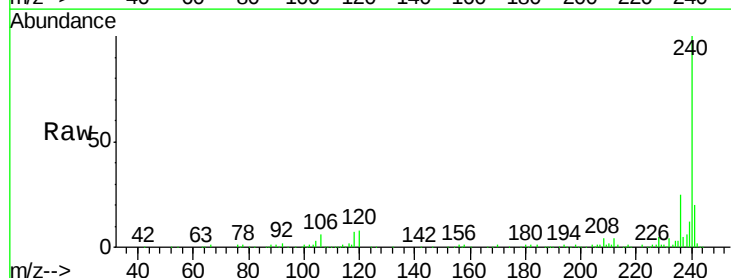
Tgt Ion:240 Resp: 221500

Ion Ratio Lower Upper

240 100

120 8.2 8.1 12.1

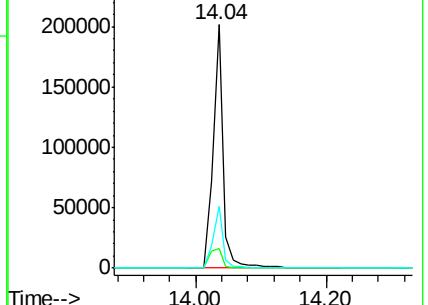
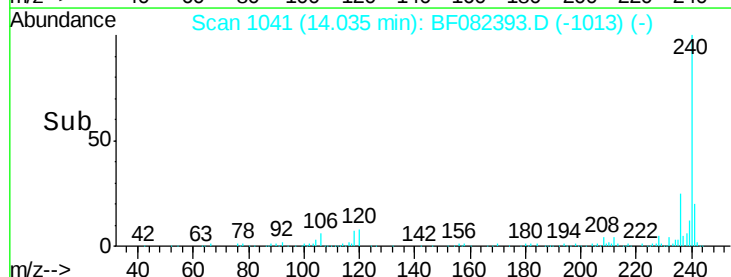
236 25.3 21.3 31.9

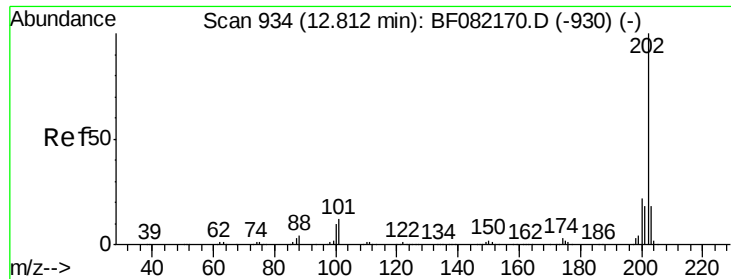


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 18.06 ng

RT: 12.79 min Scan# 932

Delta R.T. -0.02 min

Lab File: BF082393.D

Acq: 20 Oct 2015 10:17

Instrument :

BNA_F

ClientSampleId :

MANAHAWKEN112DL2

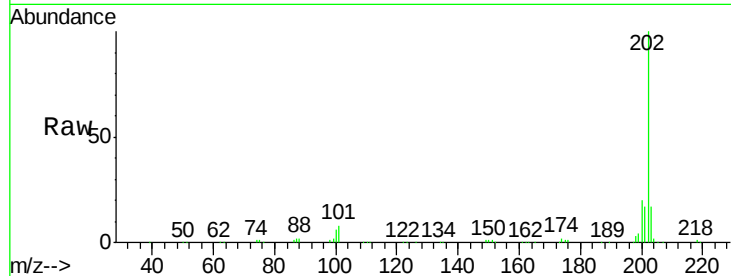
Tot Ion:202 Resp: 237435

Ion Ratio Lower Upper

202 100

200 20.0 17.9 26.9

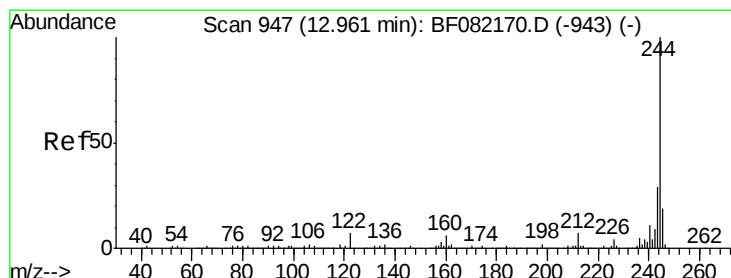
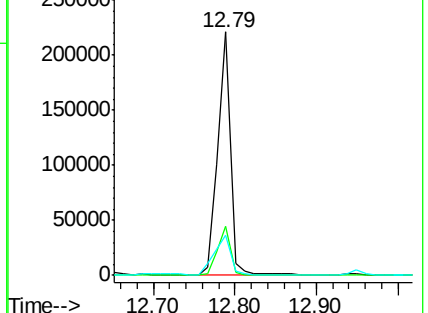
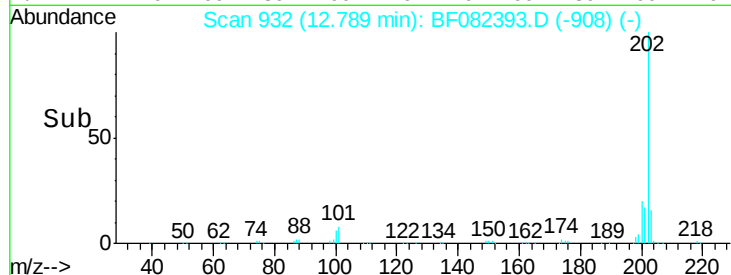
203 16.7 14.5 21.7



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 0.14 ng

RT: 12.93 min Scan# 944

Delta R.T. -0.03 min

Lab File: BF082393.D

Acq: 20 Oct 2015 10:17

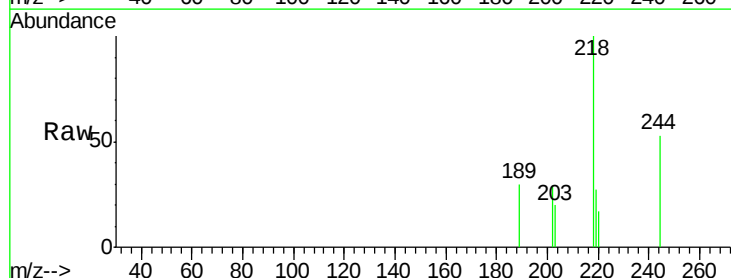
Tgt Ion:244 Resp: 1149

Ion Ratio Lower Upper

244 100

212 0.0 5.8 8.6#

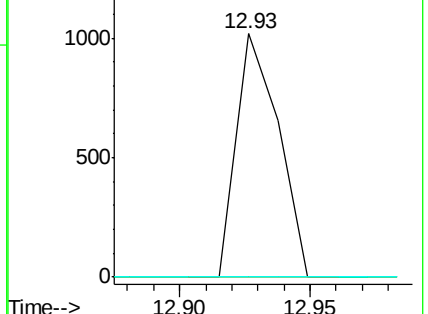
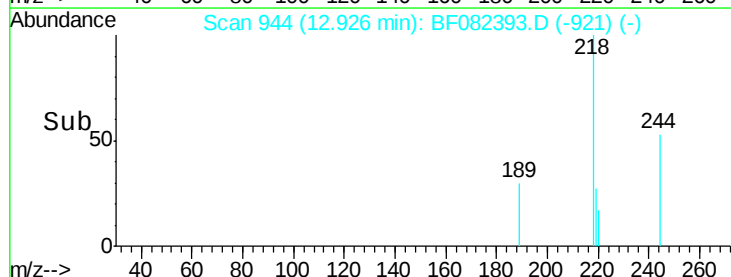
122 0.0 5.9 8.9#

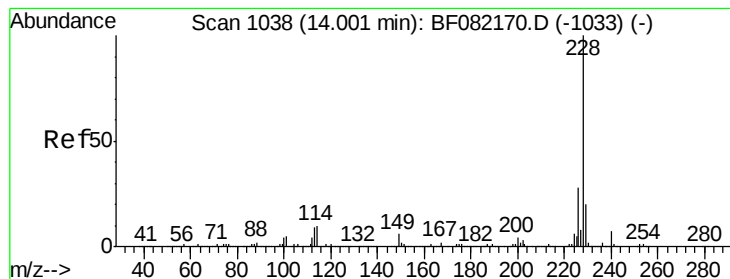


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

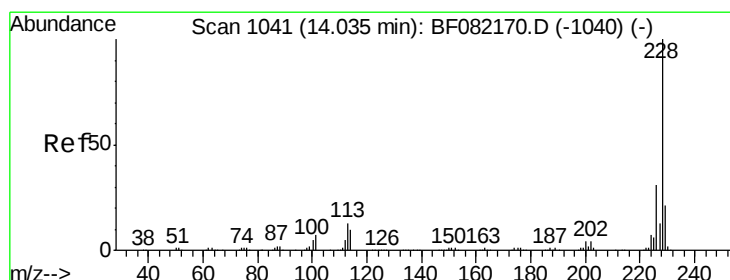
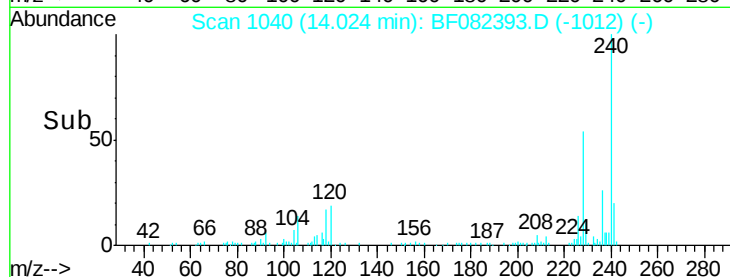
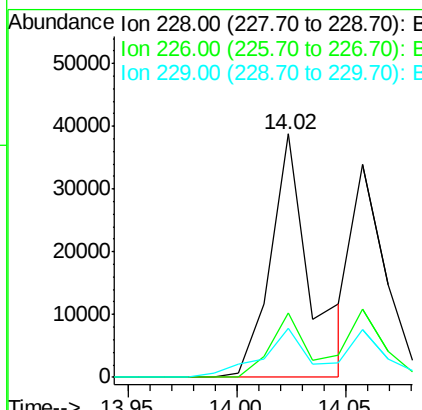
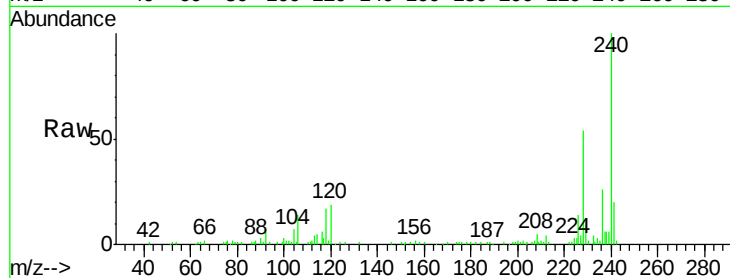




#80
Benzo(a)anthracene
Concen: 4.29 ng
RT: 14.02 min Scan# 1040
Delta R.T. 0.02 min
Lab File: BF082393.D
Acq: 20 Oct 2015 10:17

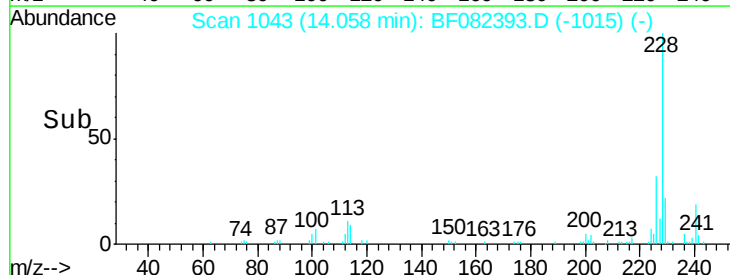
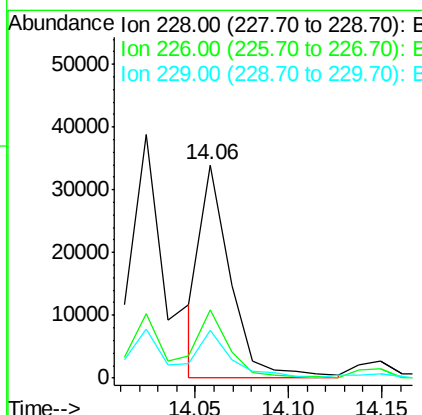
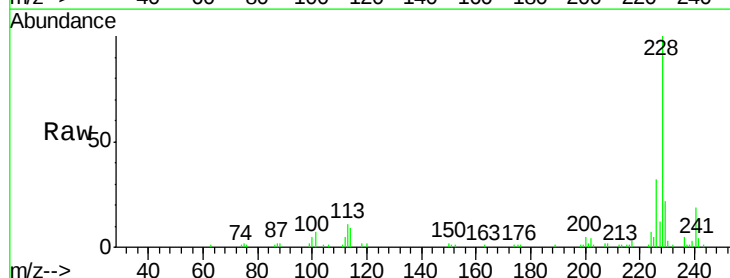
Instrument :
BNA_F
ClientSampleId :
MANAHAWKEN112DL2

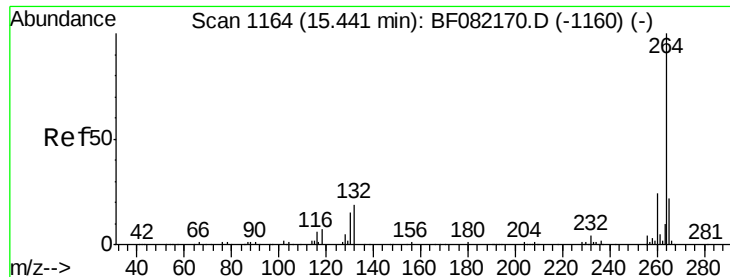
Tot Ion:228 Resp: 49443
Ion Ratio Lower Upper
228 100
226 26.3 22.3 33.5
229 20.1 16.2 24.2



#82
Chrysene
Concen: 3.12 ng
RT: 14.06 min Scan# 1043
Delta R.T. 0.02 min
Lab File: BF082393.D
Acq: 20 Oct 2015 10:17

Tgt Ion:228 Resp: 37845
Ion Ratio Lower Upper
228 100
226 32.2 24.4 36.6
229 22.1 16.3 24.5

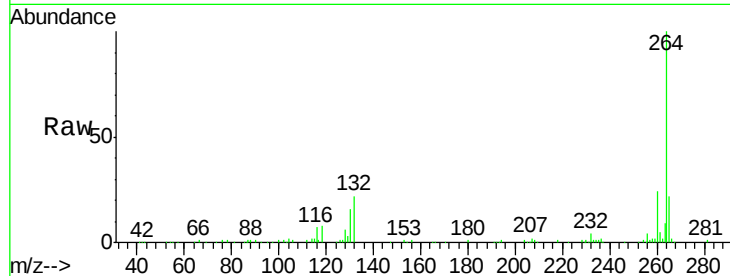




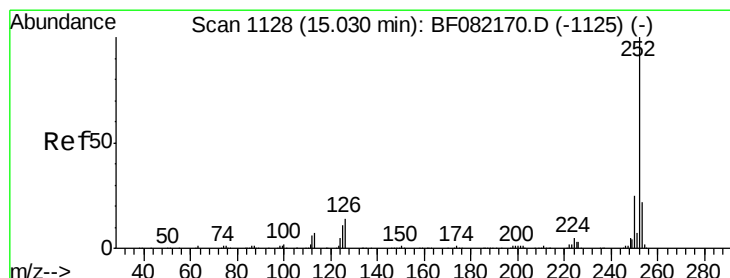
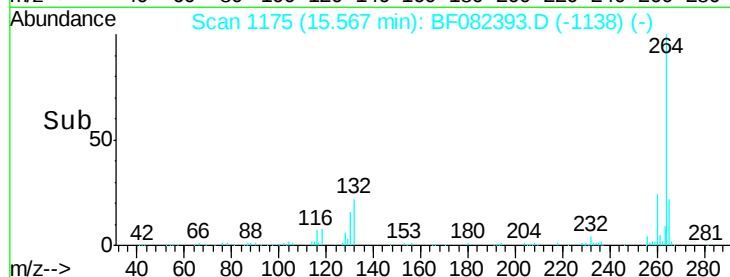
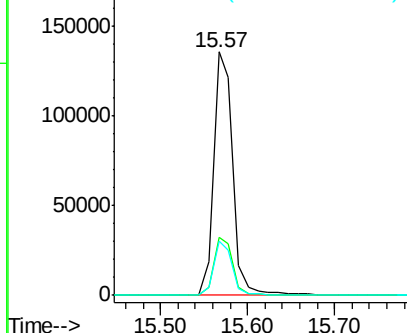
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.57 min Scan# 1175
Delta R.T. 0.13 min
Lab File: BF082393.D
Acq: 20 Oct 2015 10:17

Instrument :
BNA_F
ClientSampleId :
MANAHAWKEN112DL2

Tot Ion:264 Resp: 210304
Ion Ratio Lower Upper
264 100
260 23.6 19.0 28.6
265 22.4 17.3 25.9

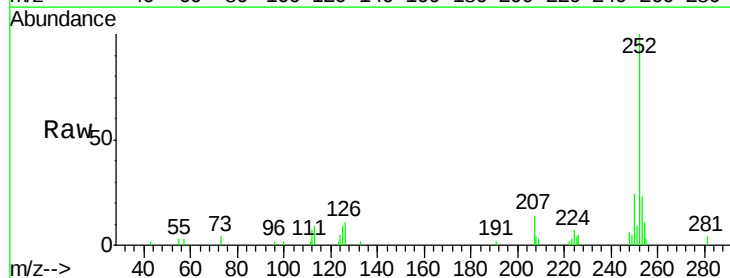


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

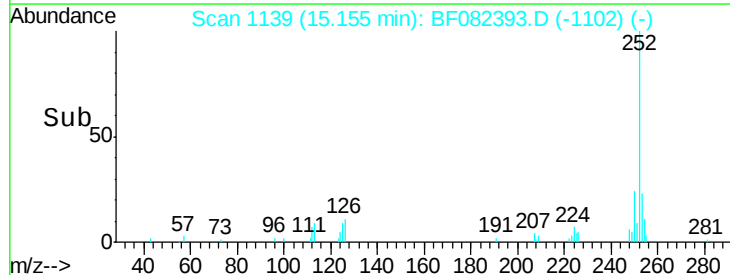
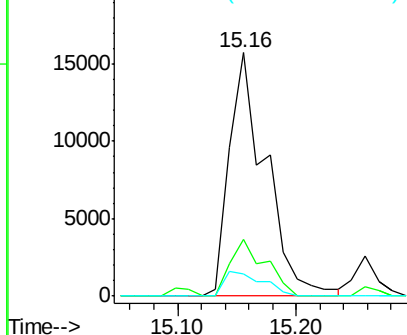


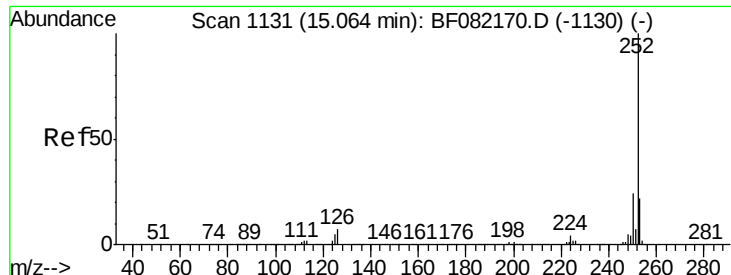
#87
Benzo(b)fluoranthene
Concen: 2.62 ng
RT: 15.16 min Scan# 1139
Delta R.T. 0.13 min
Lab File: BF082393.D
Acq: 20 Oct 2015 10:17

Tgt Ion:252 Resp: 33547
Ion Ratio Lower Upper
252 100
253 23.4 18.0 27.0
125 9.4 8.6 12.8



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





#88
 Benzo(k)fluoranthene
 Concen: 3.12 ng
 RT: 15.16 min Scan# 1139
 Delta R.T. 0.09 min
 Lab File: BF082393.D
 Acq: 20 Oct 2015 10:17

Instrument :
 BNA_F
 ClientSampleId :
 MANAHAWKEN112DL2

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.8	26.6
125	9.4	6.7	10.1

