

Data Path : U:\HPCHEM1\BNA F\DATA\BF101915\
 Data File : BF082393.D
 Acq On : 20 Oct 2015 10:17
 Operator : UM/IZ
 Sample : G4046-04DL2 500X
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MANAHAWKEN112DL2

Manual Integrations
 APPROVED

MMdadoda
 10/20/2015 6:26:14 PM

Quant Time: Oct 20 13:41:16 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						
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						
51) Acenaphthene	9.89	154	34017	3.60	ng	99
54) Dibenzofuran	10.06	168	56812	4.37	ng	94
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	41367m	3.59	ng	
82) Chrysene	14.06	228	45920m	3.78	ng	

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

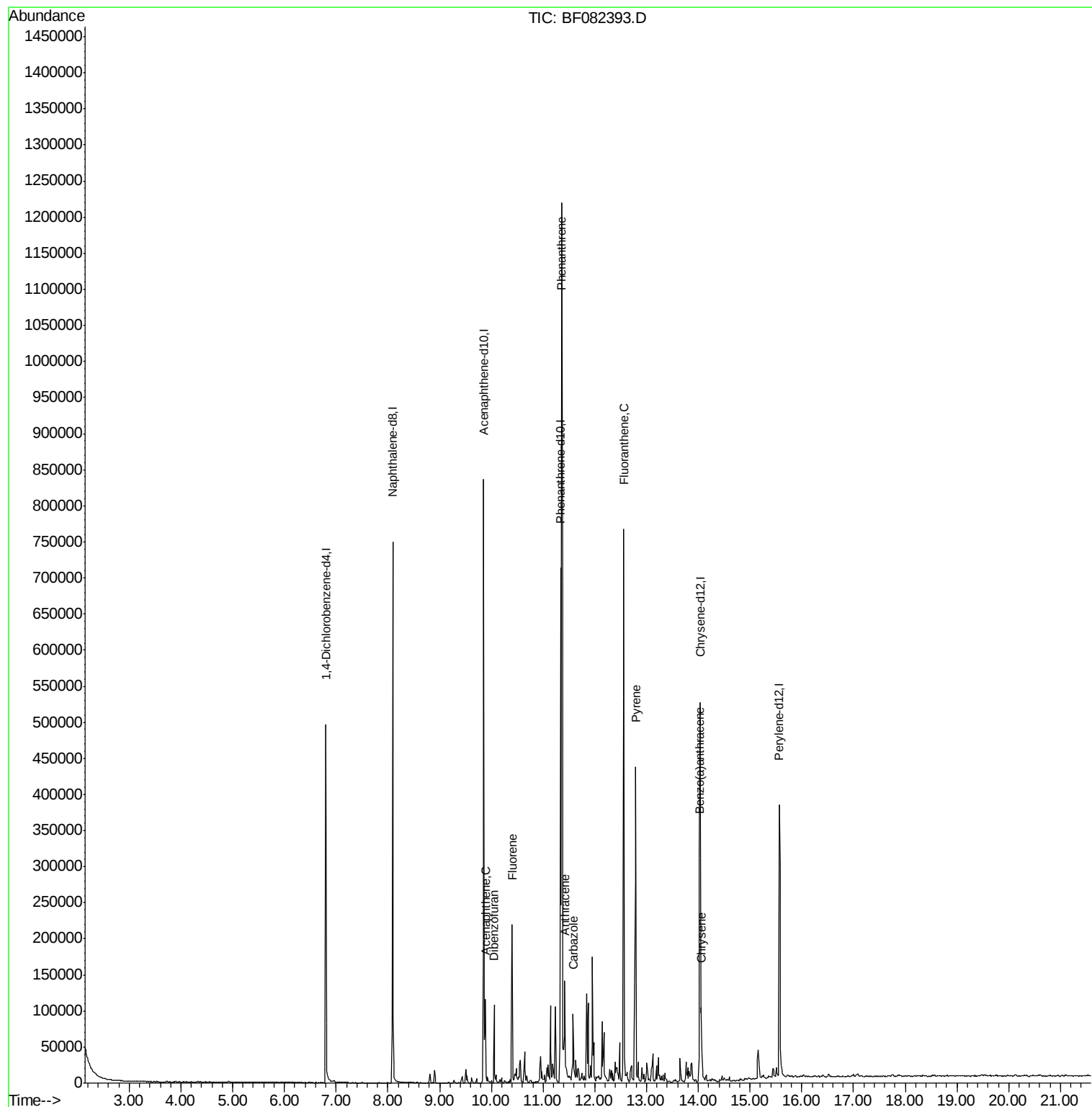
Data Path : U:\HPCHEM1\BNA F\DATA\BF101915\
Data File : BF082393.D
Acq On : 20 Oct 2015 10:17
Operator : UM/IZ
Sample : G4046-04DL2 500X
Misc :
ALS Vial : 40 Sample Multiplier: 1

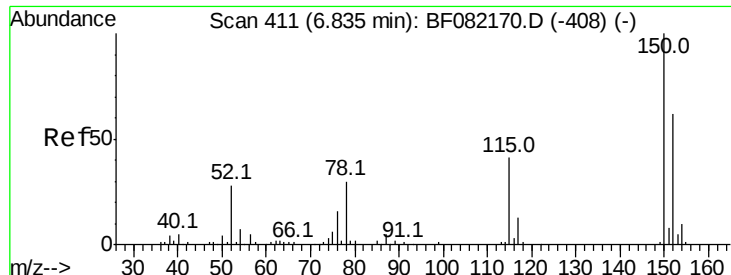
Instrument :
BNA_F
ClientSampleId :
MANAHAWKEN112DL2

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Quant Time: Oct 20 13:41:16 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





#1

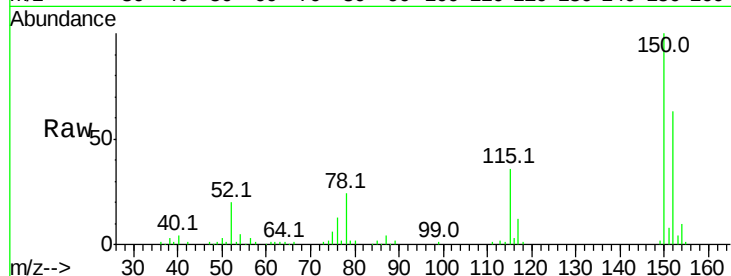
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.80 min Scan# 408
 Delta R.T. -0.03 min
 Lab File: BF082393.D
 Acq: 20 Oct 2015 10:17

Instrument :
 BNA_F
 ClientSampleId :
 MANAHAWKEN112DL2

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

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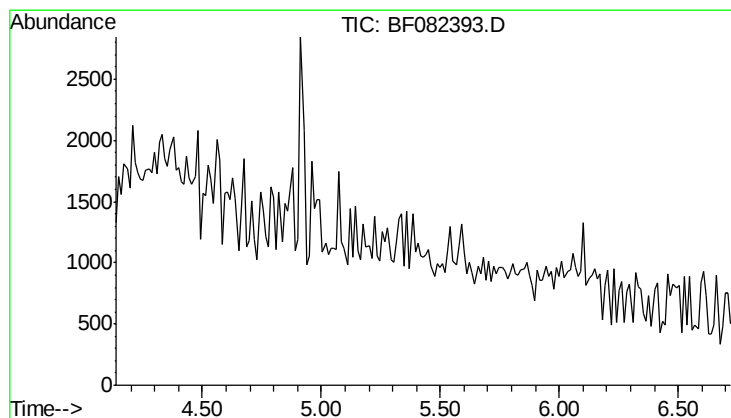
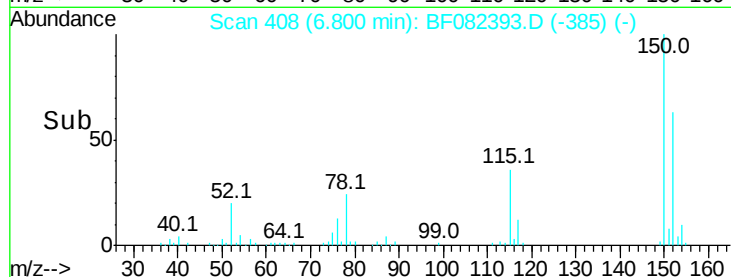
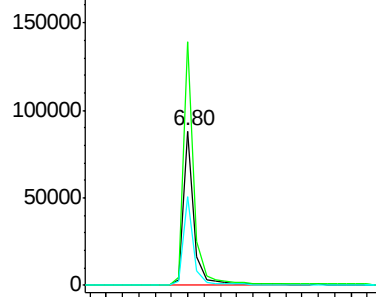


Abundance

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

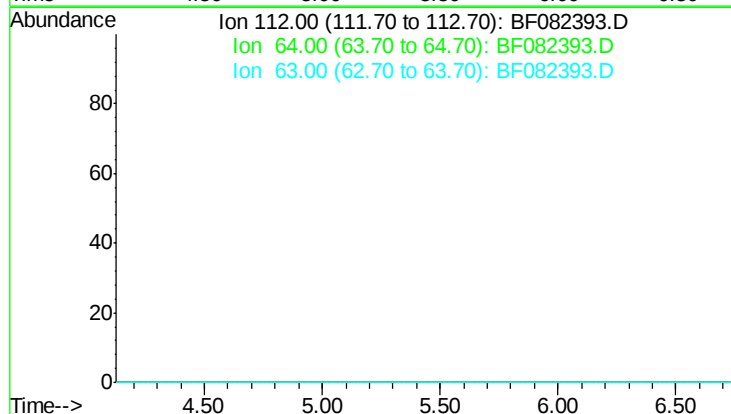


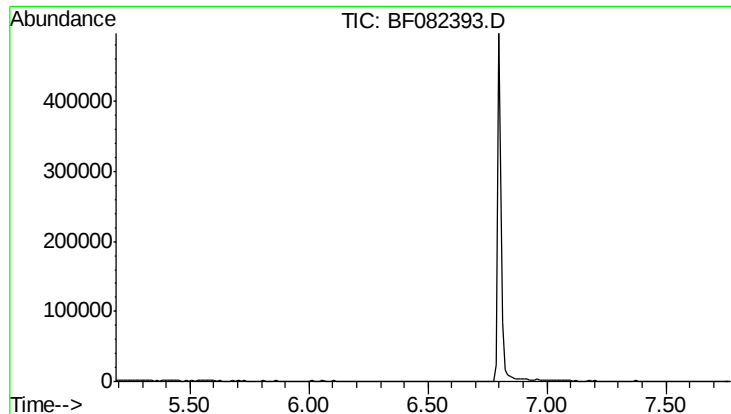
#5

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

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

Tgt Ion	Sig	Exp Ratio
112	100	
64	60.8	
63	31.4	





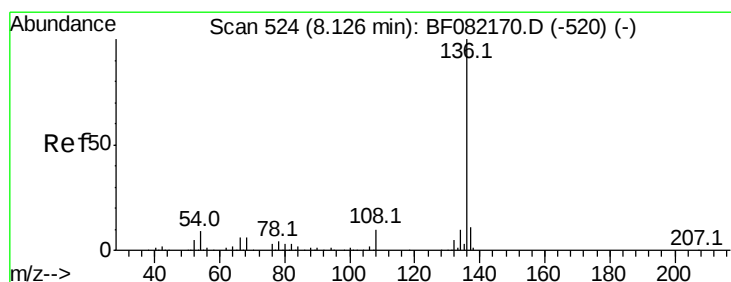
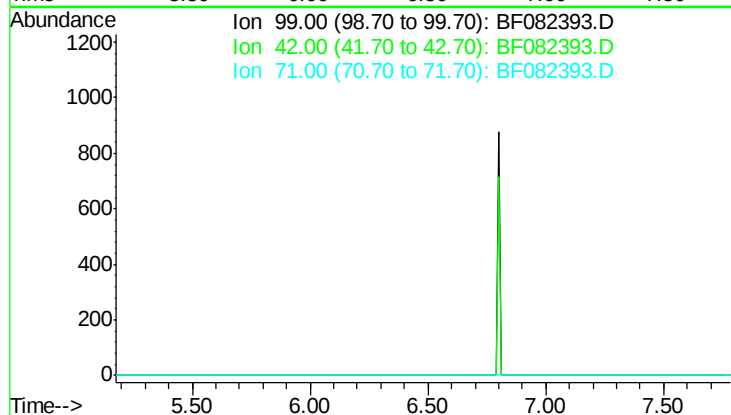
#7
 Phenol-d6
 Concen: 0.00 ng
 Expected RT: 6.48 min
 Lab File: BF082393.D
 Acq: 20 Oct 2015 10:17

Instrument :
 BNA_F
 ClientSampleId :
 MANAHAWKEN112DL2

Manual Integrations
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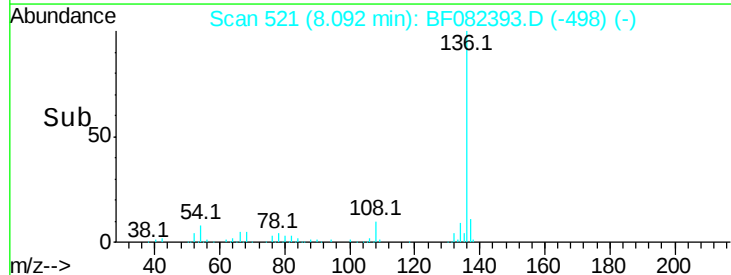
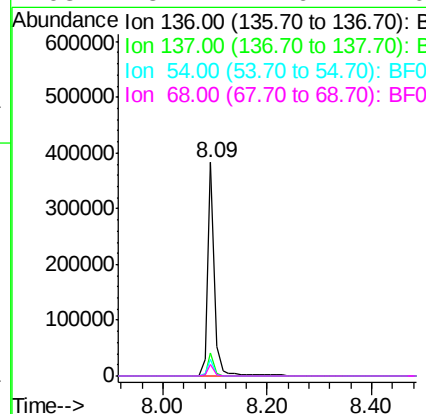
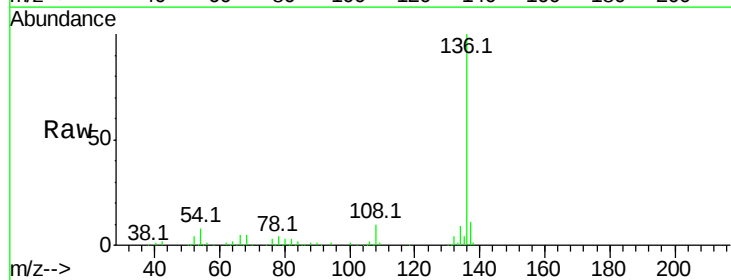
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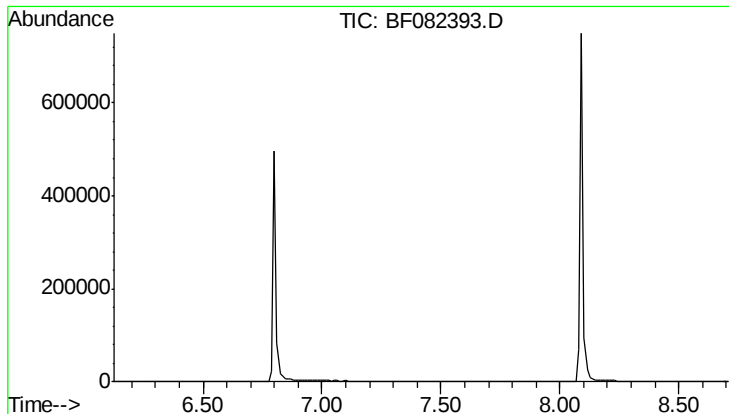
Tot Ion	Exp Ratio
99	100
42	16.5
71	32.0



#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



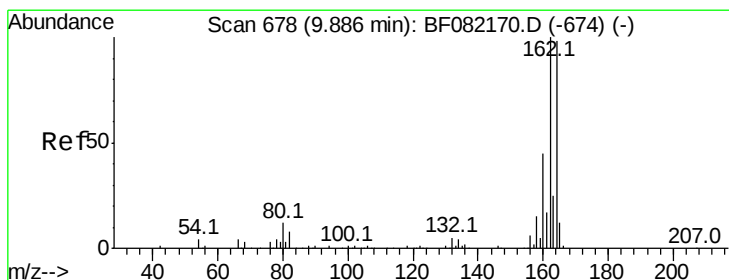
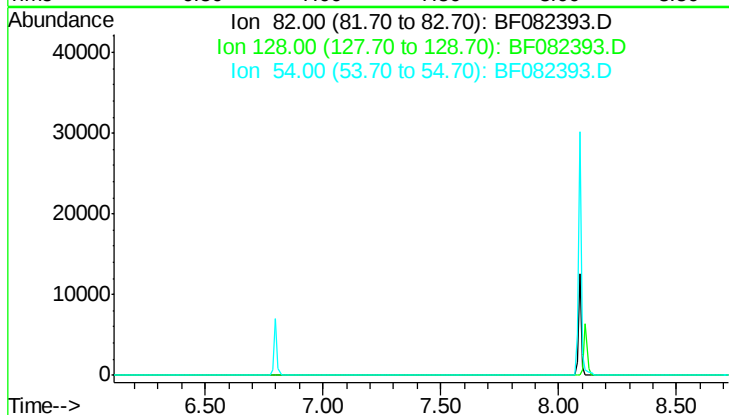


#23
 Nitrobenzene-d5
 Concen: 0.00 ng
 Expected RT: 7.42 min
 Lab File: BF082393.D
 Acq: 20 Oct 2015 10:17

Instrument :
 BNA_F
 ClientSampleId :
 MANAHAWKEN112DL2

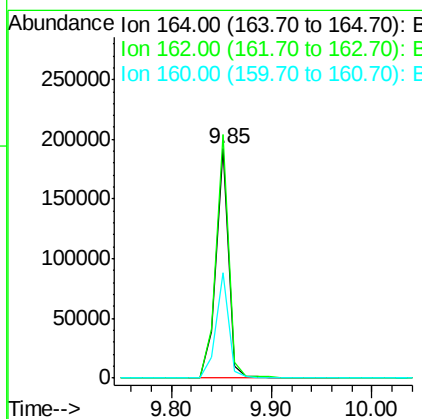
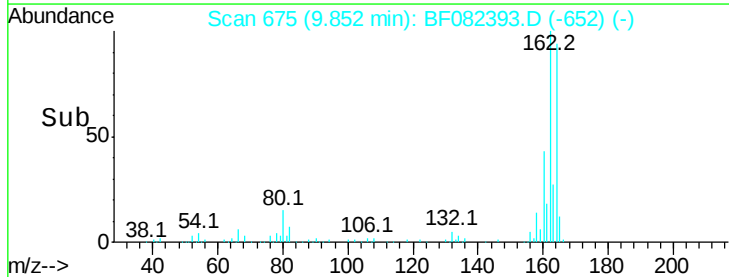
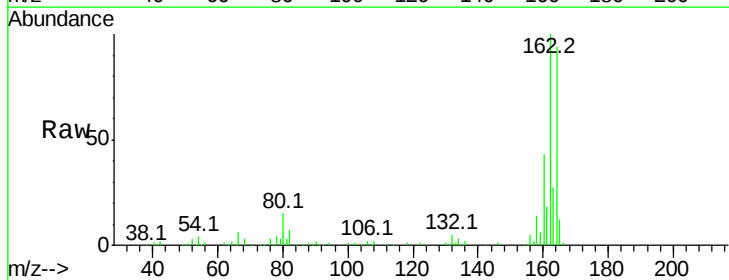
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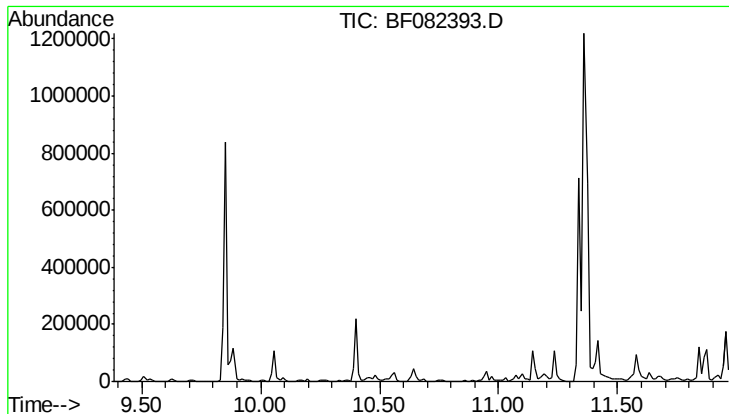
Tot Ion:	82
Sig	Exp Ratio
82	100
128	48.4
54	50.1



#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





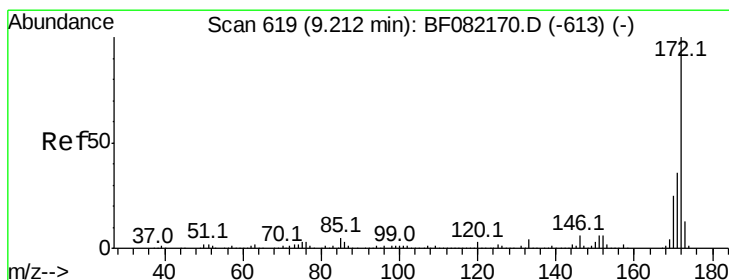
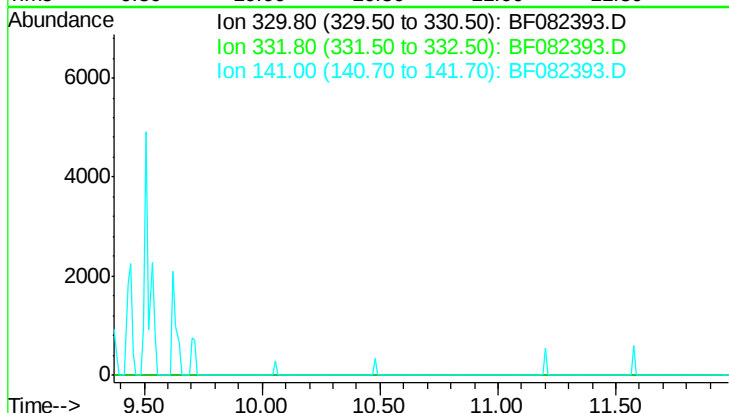
#41
 2,4,6-Tribromophenol
 Concen: 0.00 ng
 Expected RT: 10.67 min
 Lab File: BF082393.D
 Acq: 20 Oct 2015 10:17

Instrument :
 BNA_F
 ClientSampleId :
 MANAHAWKEN112DL2

Tot Ion	330	332	141
Exp Ratio	100	96.4	37.3

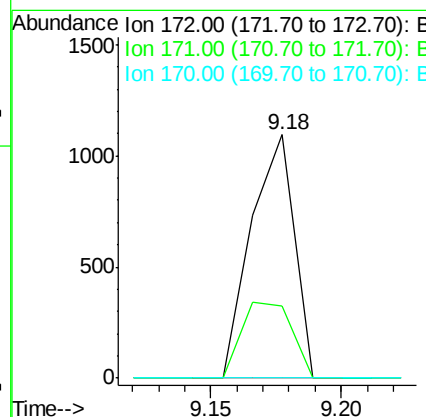
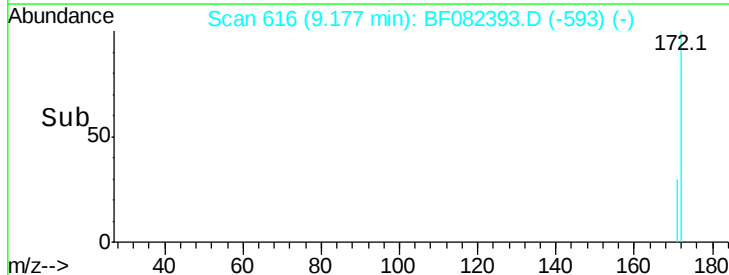
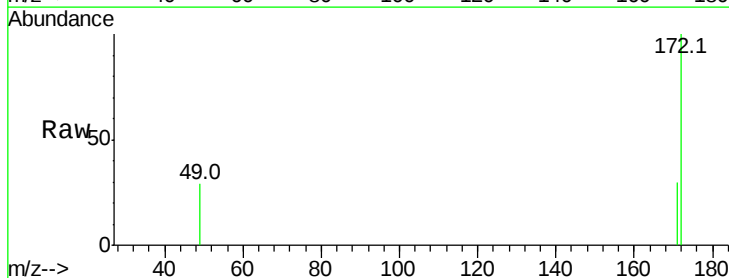
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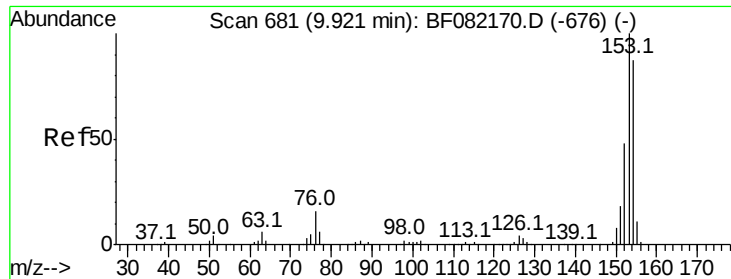
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#44
 2-Fluorobiphenyl
 Concen: 0.12 ng
 RT: 9.18 min Scan# 616
 Delta R.T. -0.03 min
 Lab File: BF082393.D
 Acq: 20 Oct 2015 10:17

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





#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

Instrument :

BNA_F

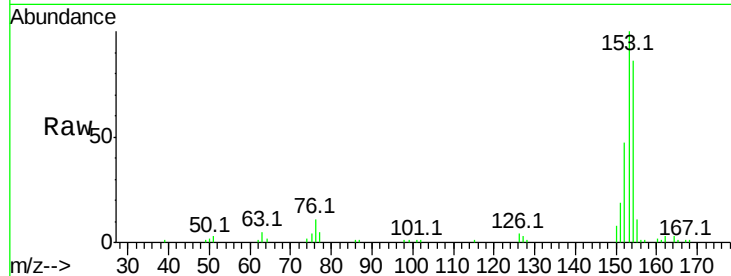
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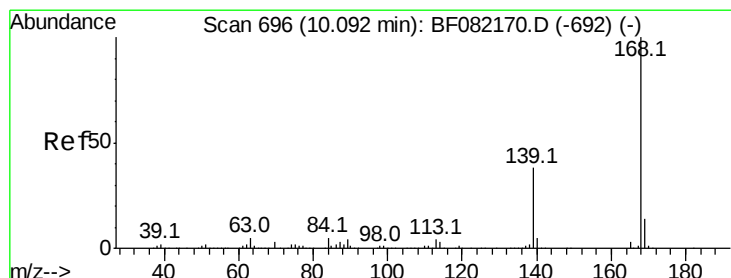
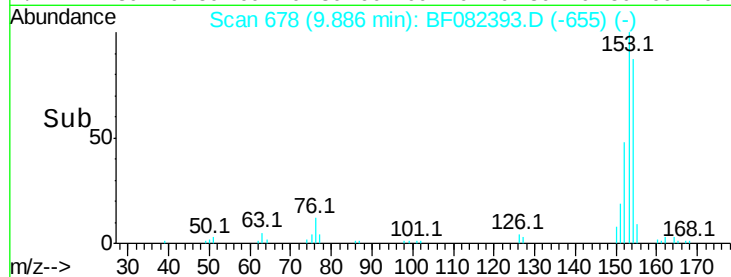
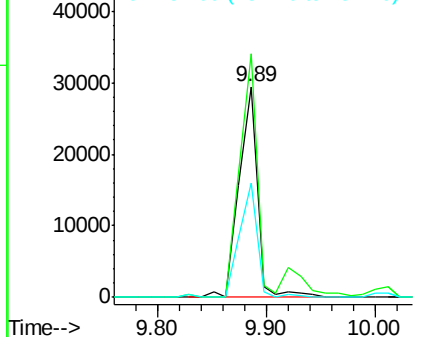
Tot Ion:	154	Resp:	34017
Ion Ratio	Lower	Upper	
154	100		
153	115.8	91.4	137.2
152	54.6	44.3	66.5

Manual Integrations
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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

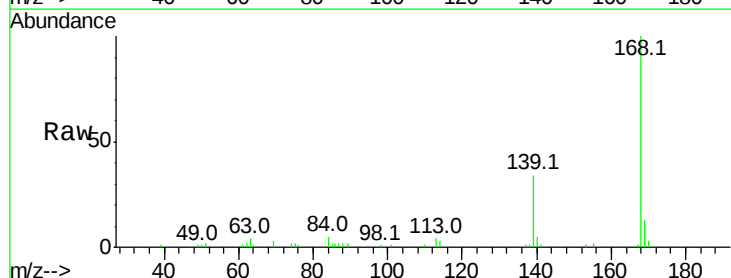
RT: 10.06 min Scan# 693

Delta R.T. -0.03 min

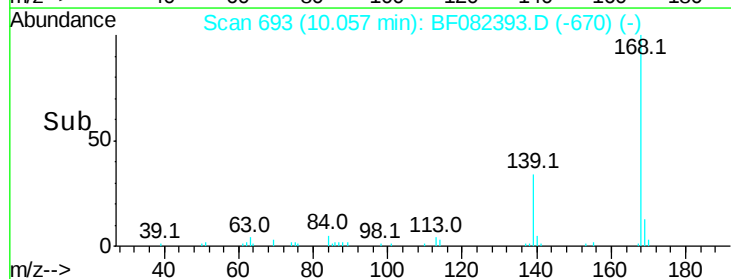
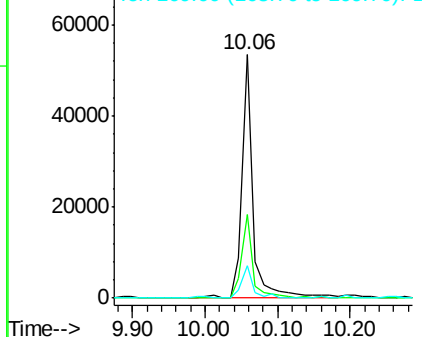
Lab File: BF082393.D

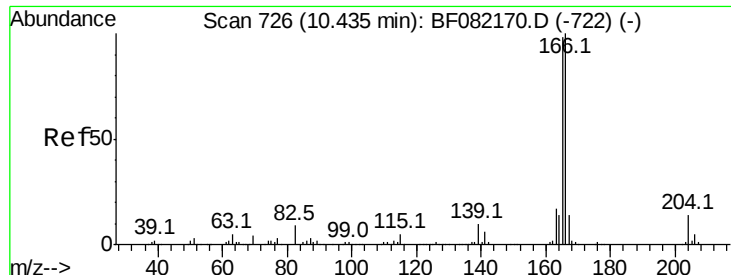
Acq: 20 Oct 2015 10:17

Tgt 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





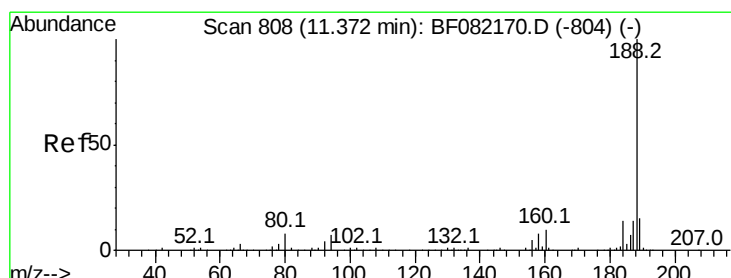
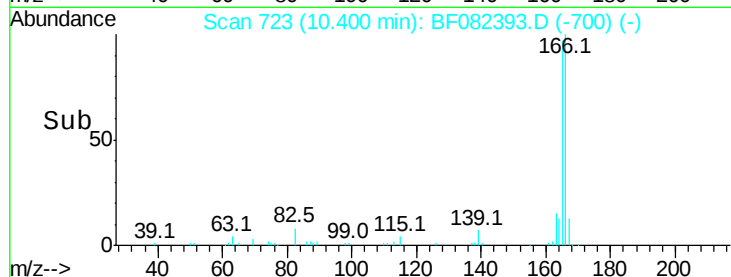
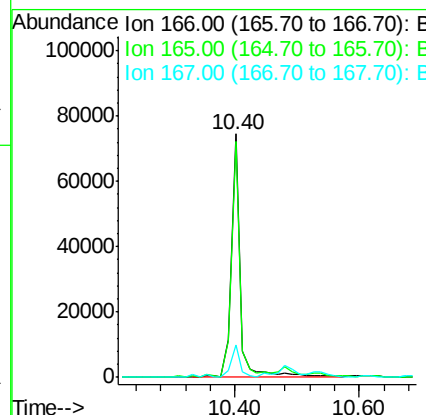
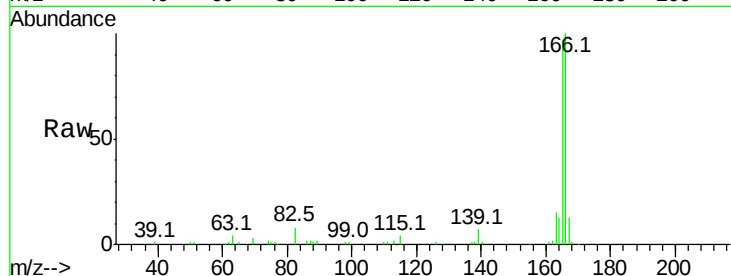
#57
Fluorene
 Concen: 7.01 ng
 RT: 10.40 min Scan# 723
 Delta R.T. -0.03 min
 Lab File: BF082393.D
 Acq: 20 Oct 2015 10:17

Instrument :
 BNA_F
 ClientSampleId :
 MANAHAWKEN112DL2

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.2	78.3	117.5
167	13.3	10.8	16.2

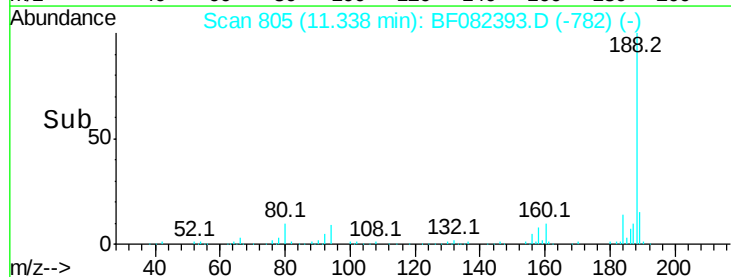
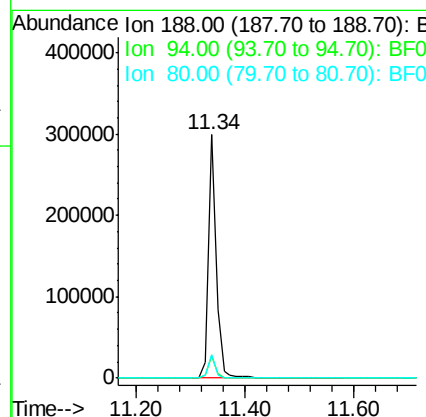
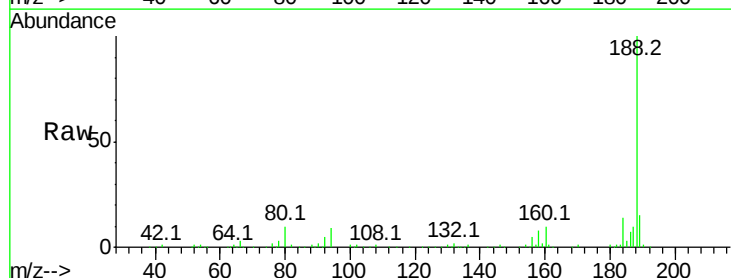
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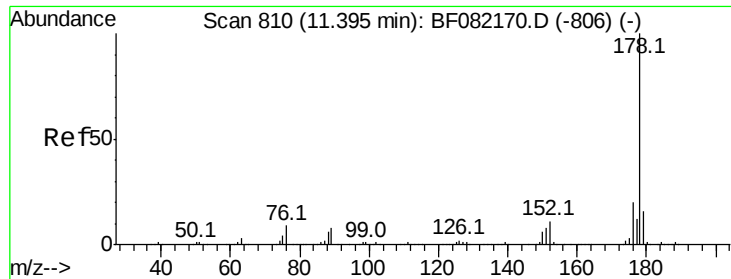
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#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.34 min Scan# 805
 Delta R.T. -0.03 min
 Lab File: BF082393.D
 Acq: 20 Oct 2015 10:17

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.1	5.8	8.6#
80	9.5	6.4	9.6





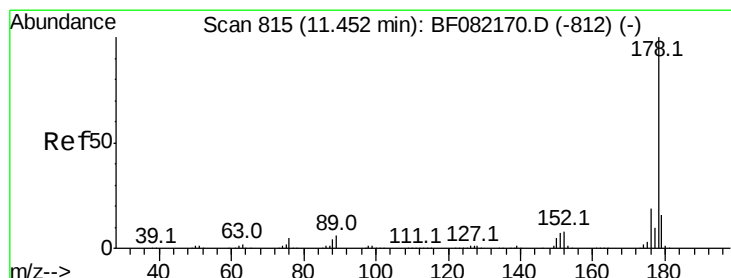
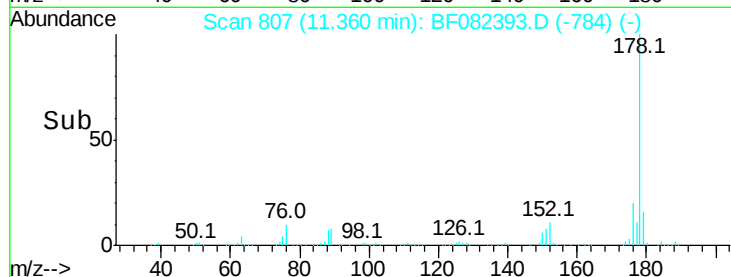
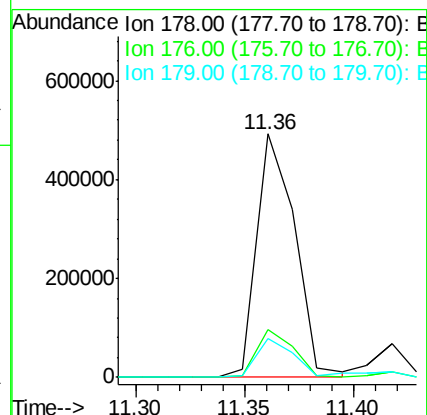
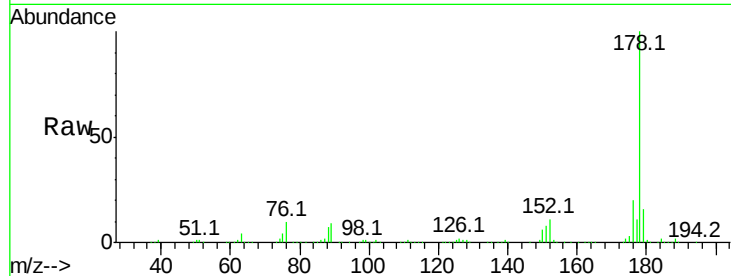
#70
Phenanthrene
Concen: 41.85 ng
RT: 11.36 min Scan# 807
Delta R.T. -0.03 min
Lab File: BF082393.D
Acq: 20 Oct 2015 10:17

Instrument :
BNA_F
ClientSampleId :
MANAHAWKEN112DL2

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	16.0	24.0
179	15.9	12.6	19.0

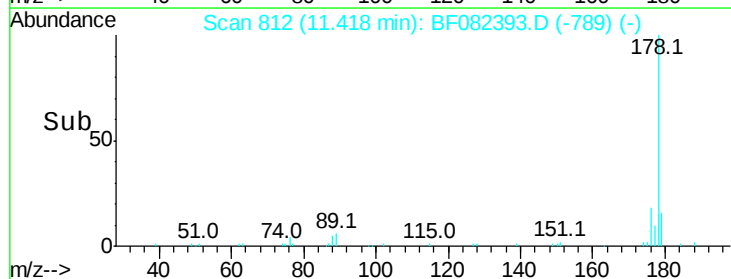
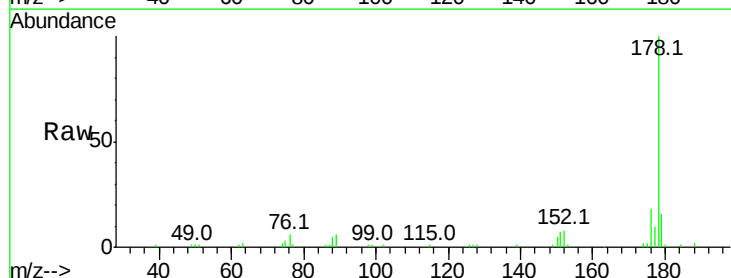
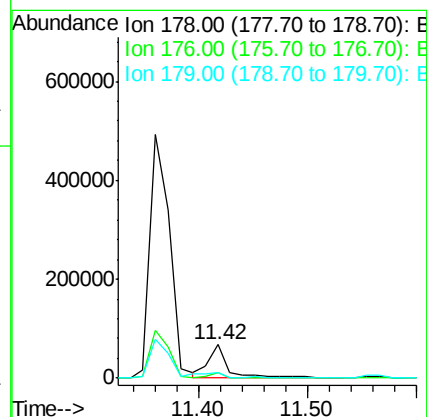
Manual Integrations
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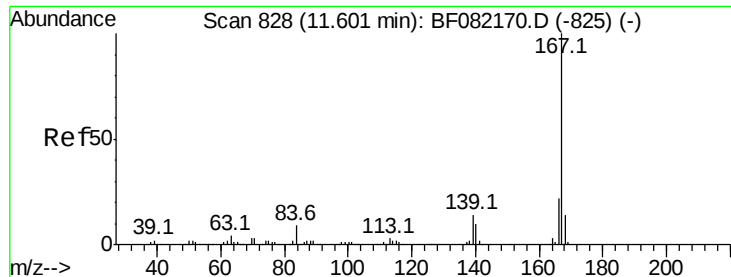
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#71
Anthracene
Concen: 5.45 ng
RT: 11.42 min Scan# 812
Delta R.T. -0.03 min
Lab File: BF082393.D
Acq: 20 Oct 2015 10:17

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.8	15.4	23.0
179	16.0	12.5	18.7





#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

Instrument :

BNA_F

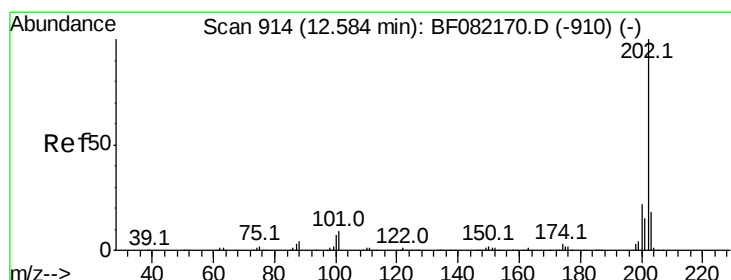
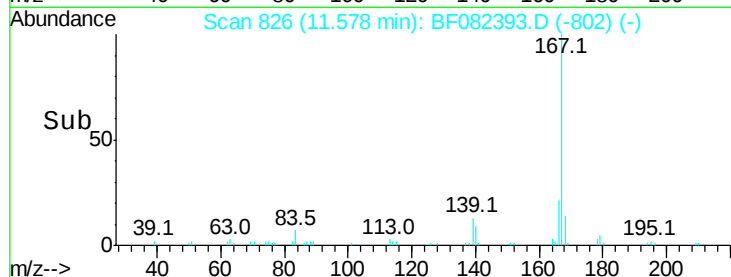
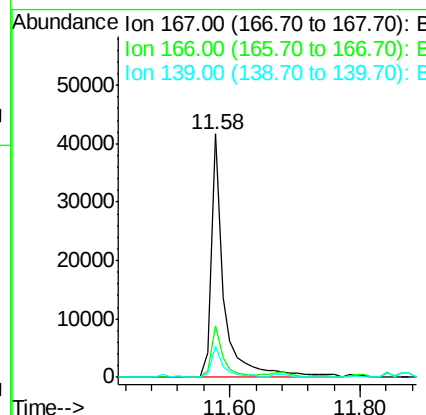
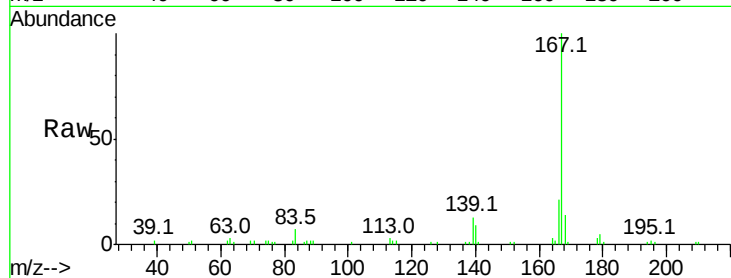
ClientSampleId :

MANAHAWKEN112DL2

Manual Integrations
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Tot Ion:	167	Resp:	55985
Ion Ratio	Lower	Upper	
167	100		
166	21.4	17.3	25.9
139	12.7	11.2	16.8



#74

Fluoranthene

Concen: 27.77 ng

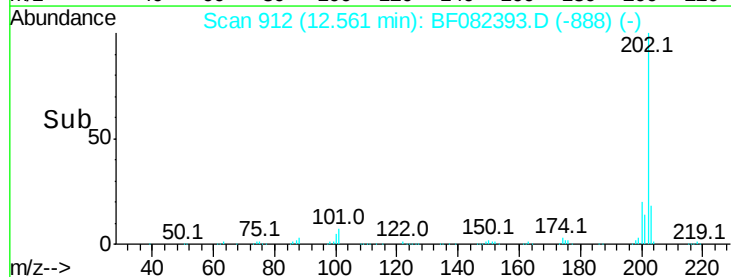
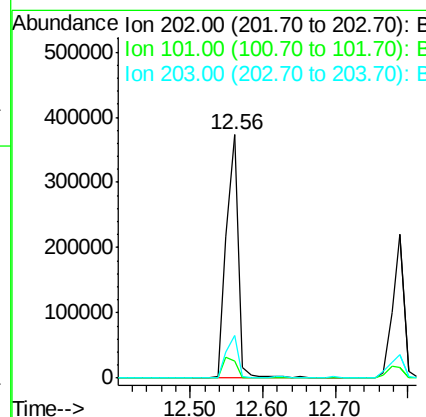
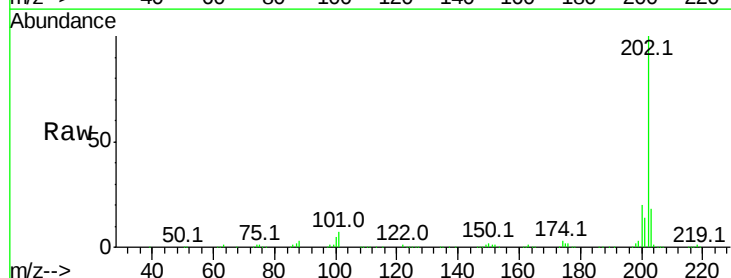
RT: 12.56 min Scan# 912

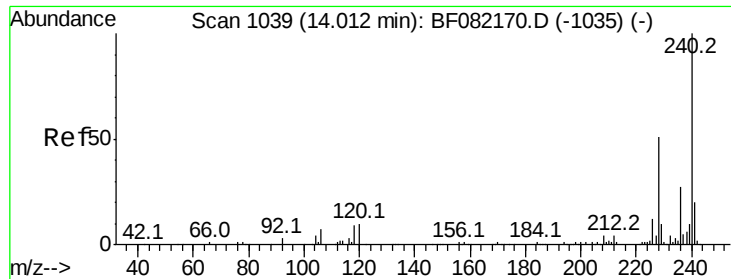
Delta R.T. -0.02 min

Lab File: BF082393.D

Acq: 20 Oct 2015 10:17

Tgt Ion:	202	Resp:	430728
Ion Ratio	Lower	Upper	
202	100		
101	6.9	0.0	29.3
203	17.6	0.0	37.8





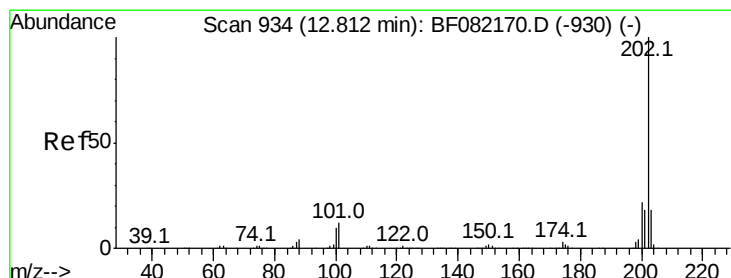
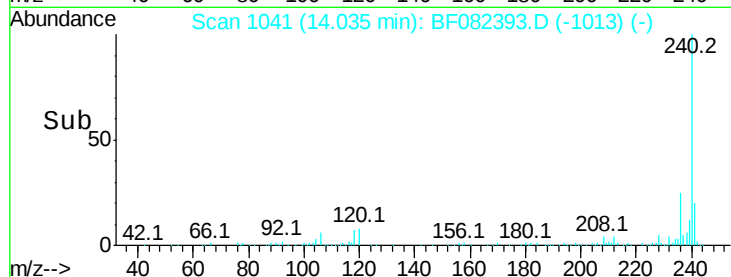
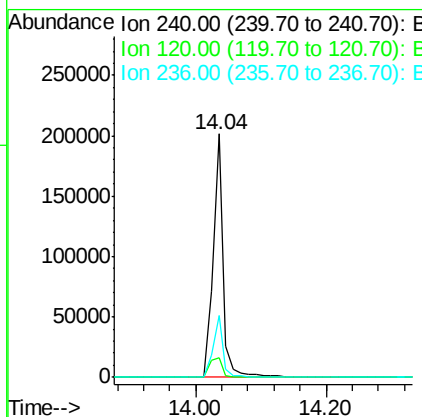
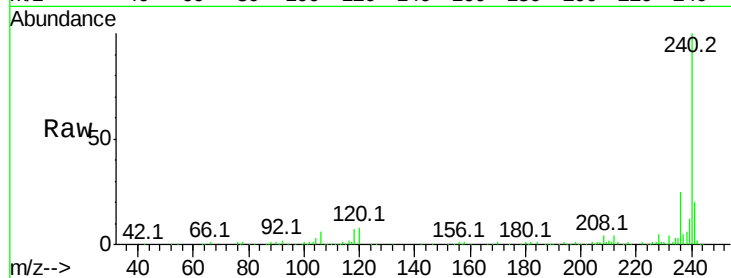
#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.04 min Scan# 1041
Delta R.T. 0.02 min
Lab File: BF082393.D
Acq: 20 Oct 2015 10:17

Instrument :
BNA_F
ClientSampleId :
MANAHAWKEN112DL2

Tot Ion	Ratio	Resp	Lower	Upper
240	100	221500		
120	8.2		8.1	12.1
236	25.3		21.3	31.9

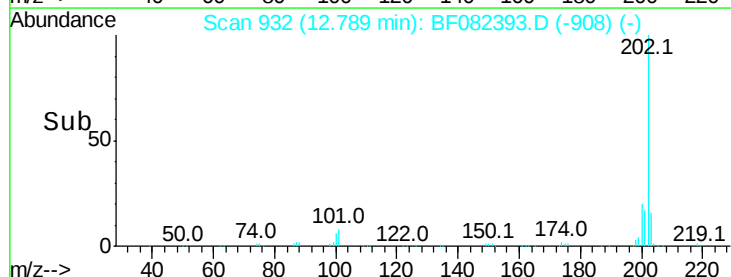
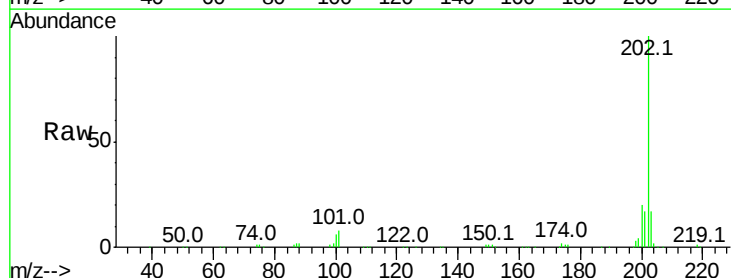
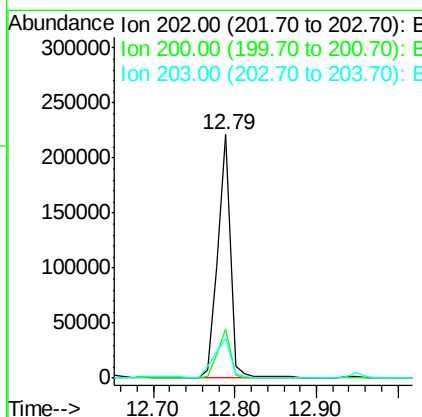
Manual Integrations
APPROVED

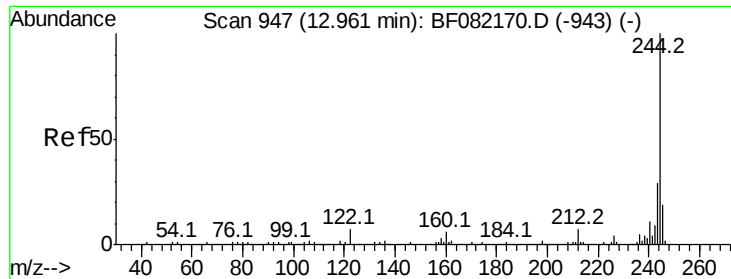
MMdadoda
10/20/2015 6:26:14 PM



#77
Pyrene
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

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	237435		
200	20.0		17.9	26.9
203	16.7		14.5	21.7





#78

Terphenyl-d14

Concen: 0.14 ng

RT: 12.93 min Scan# 944

Delta R.T. -0.03 min

Lab File: BF082393.D

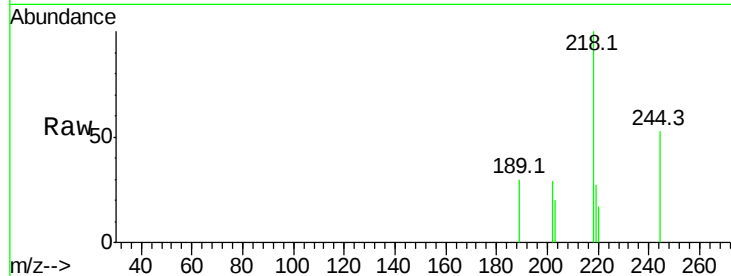
Acq: 20 Oct 2015 10:17

Instrument :

BNA_F

ClientSampleId :

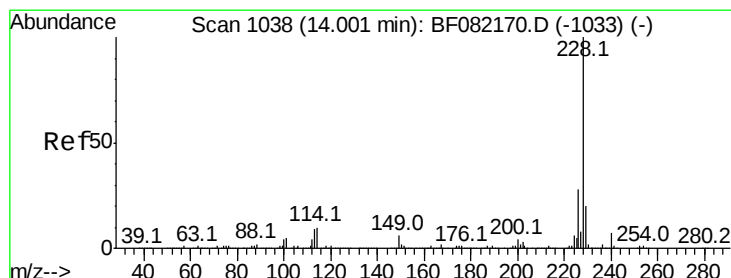
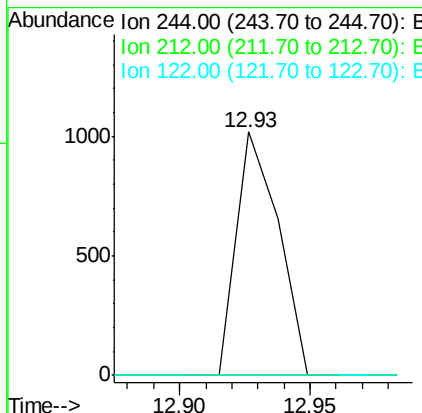
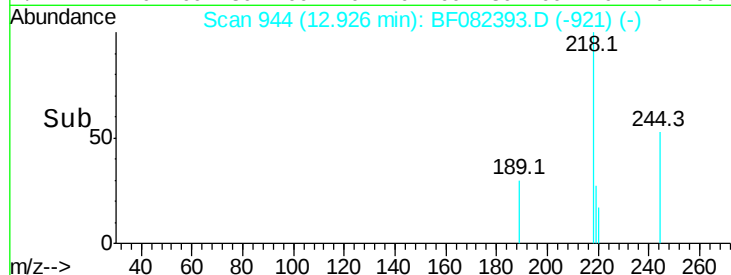
MANAHAWKEN112DL2



Tot Ion	Ratio	Lower	Upper
244	100		
212	0.0	5.8	8.6#
122	0.0	5.9	8.9#

Manual Integrations
APPROVED

MMdadoda
10/20/2015 6:26:14 PM



#80

Benzo(a)anthracene

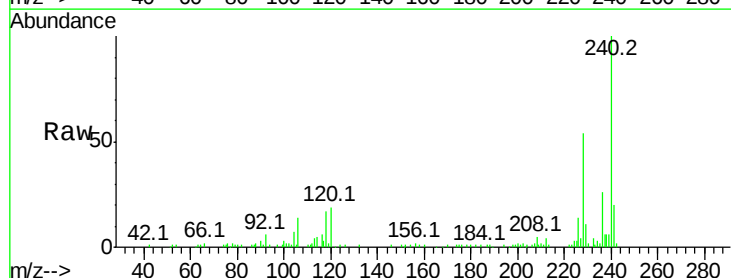
Concen: 3.59 ng m

RT: 14.02 min Scan# 1040

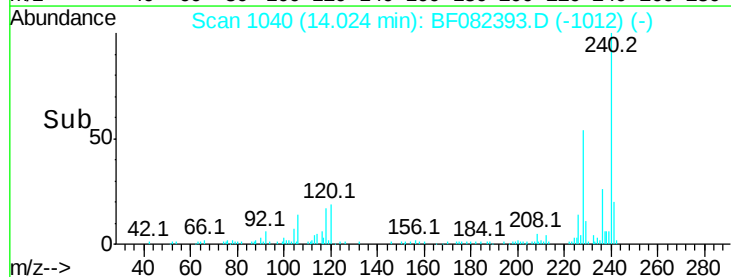
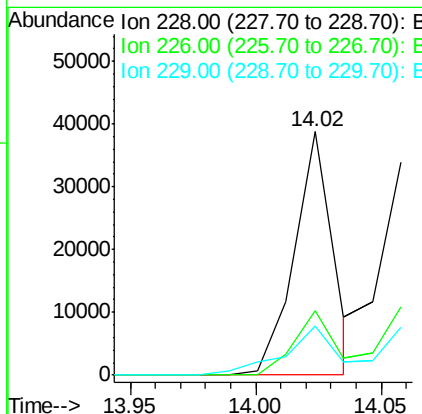
Delta R.T. 0.02 min

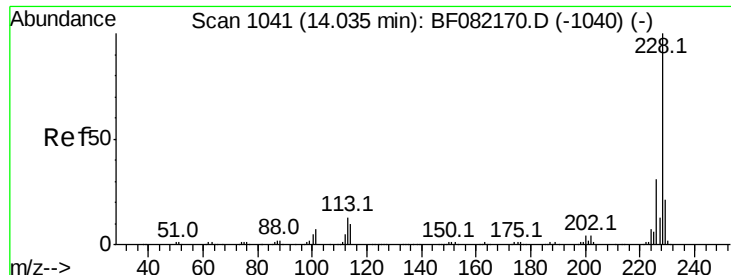
Lab File: BF082393.D

Acq: 20 Oct 2015 10:17



Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.3	22.3	33.5
229	20.1	16.2	24.2





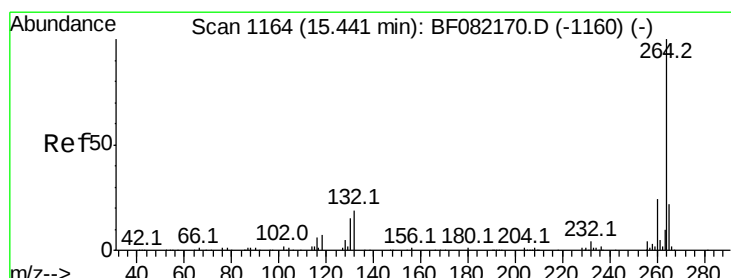
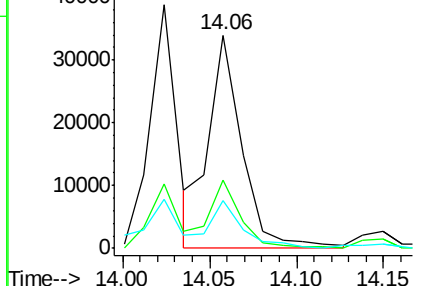
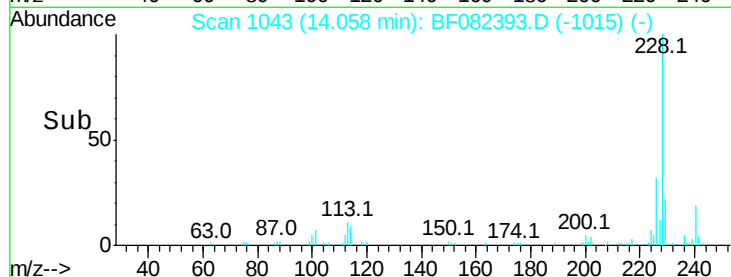
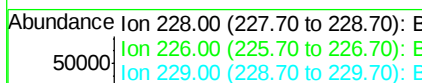
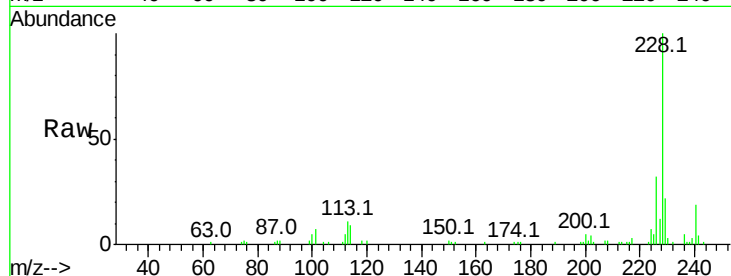
#82
Chrysene
Concen: 3.78 ng/mL
RT: 14.06 min Scan# 1043
Delta R.T. 0.02 min
Lab File: BF082393.D
Acq: 20 Oct 2015 10:17

Instrument :
BNA_F
ClientSampleID :
MANAHAWKEN112DL2

Tot Ion:	228	Resp:	45920
Ion Ratio	Lower	Upper	
228	100		
226	32.2	24.4	36.6
229	22.1	16.3	24.5

Manual Integrations
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MMdadoda
10/20/2015 6:26:14 PM



#86
Perylene-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

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

