

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071015\
 Data File : BF080424.D
 Acq On : 11 Jul 2015 9:21
 Operator : TP/UM
 Sample : G2935-01 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FILLSOURCE-2

Manual Integrations
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Quant Time: Jul 13 01:52:21 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jul 11 05:35:30 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	21400	20.00	ng	-0.01
21) Naphthalene-d8	8.43	136	94810	20.00	ng	0.00
38) Acenaphthene-d10	10.19	164	48238	20.00	ng	0.00
63) Phenanthrene-d10	11.69	188	88057	20.00	ng	0.00
75) Chrysene-d12	14.60	240	89634	20.00	ng	0.07
86) Perylene-d12	16.40	264	87383	20.00	ng	0.11
System Monitoring Compounds						
5) 2-Fluorophenol	5.79	112	11211	8.98	ng	0.00
7) Phenol-d6	6.80	99	26277	15.79	ng	0.00
23) Nitrobenzene-d5	7.71	82	16166	9.72	ng	0.00
41) 2,4,6-Tribromophenol	10.99	330	494	1.05	ng	0.00
44) 2-Fluorobiphenyl	9.50	172	42709	11.92	ng	0.00
78) Terphenyl-d14	13.35	244	45703	11.07	ng	0.02
Target Compounds						Qvalue
31) Naphthalene	8.45	128	29710	5.73	ng	98
37) 2-Methylnaphthalene	9.14	142	10934m	3.20	ng	
51) Acenaphthene	10.22	154	13933	4.13	ng	98
54) Dibenzofuran	10.40	168	22524	5.04	ng	93
57) Fluorene	10.74	166	25118	6.67	ng	99
70) Phenanthrene	11.71	178	219922	41.57	ng	100
71) Anthracene	11.76	178	52383	10.69	ng	96
72) Carbazole	11.93	167	19626	4.34	ng	98
74) Fluoranthene	12.96	202	190961	34.81	ng	99
77) Pyrene	13.21	202	156154	27.19	ng	99
80) Benzo(a)anthracene	14.59	228	75611	13.39	ng	98
82) Chrysene	14.64	228	64777	12.45	ng	97
85) Indeno(1,2,3-cd)pyrene	18.07	276	33913	5.25	ng	97
87) Benzo(b)fluoranthene	15.91	252	78495m	12.93	ng	
88) Benzo(k)fluoranthene	15.94	252	27364m	5.51	ng	
89) Benzo(a)pyrene	16.33	252	56111	10.55	ng	# 95
91) Benzo(g,h,i)perylene	18.57	276	33885	6.47	ng	99

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

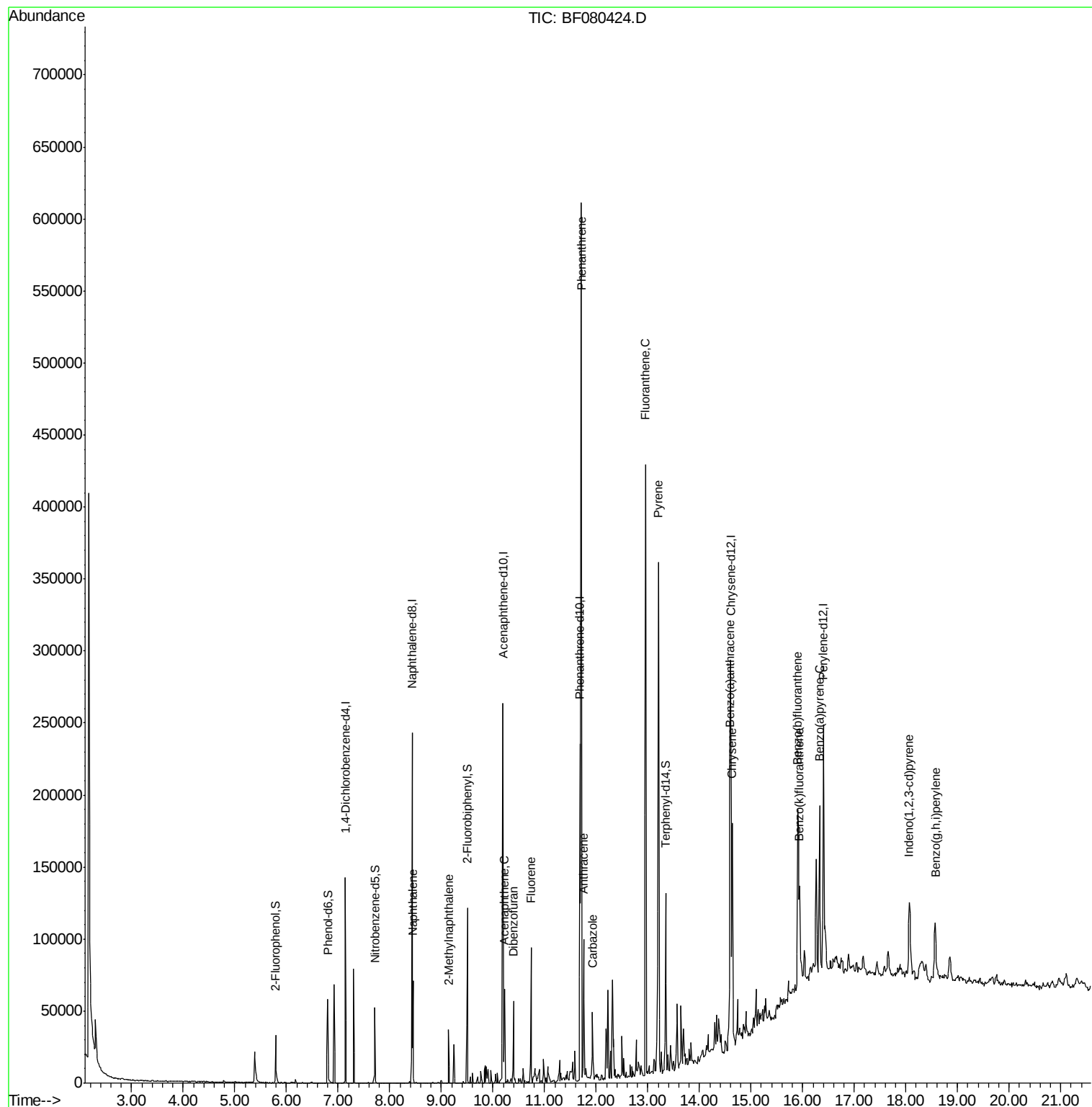
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071015\
Data File : BF080424.D
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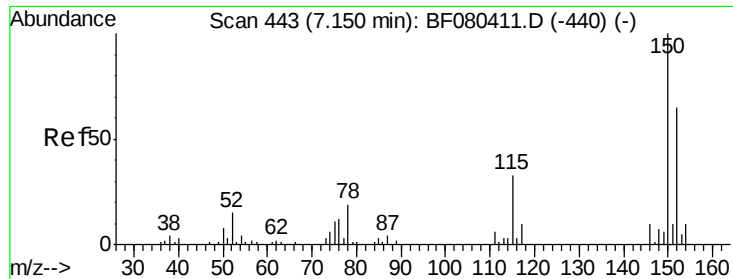
Instrument :
BNA_F
ClientSampleId :
FILLSOURCE-2

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Quant Time: Jul 13 01:52:21 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 11 05:35:30 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.14 min Scan# 442

Delta R.T. -0.01 min

Lab File: BF080424.D

Acq: 11 Jul 2015 9:21

Instrument :

BNA_F

ClientSampleId :

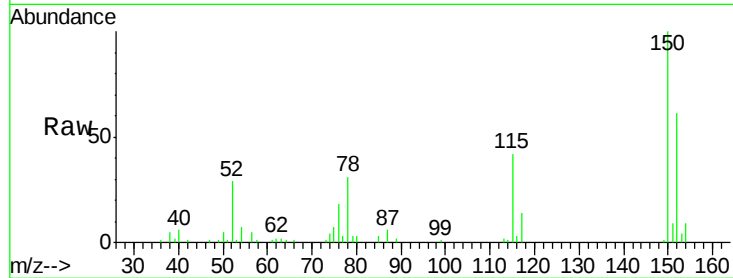
FILLSOURCE-2

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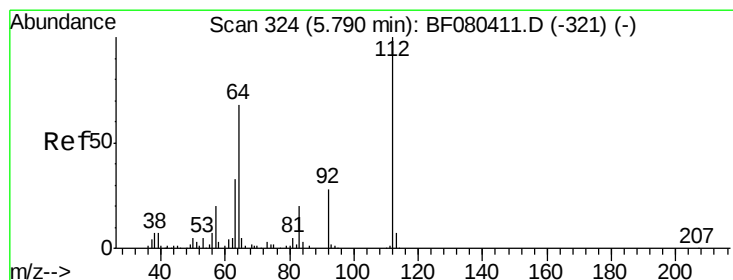
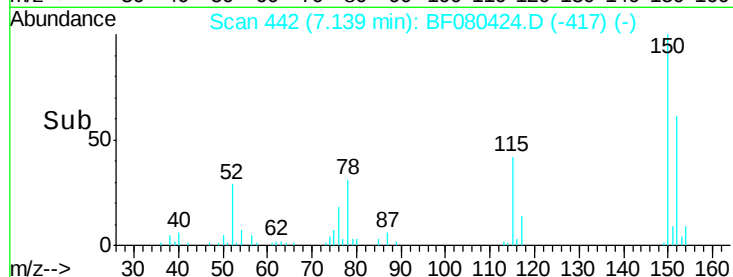
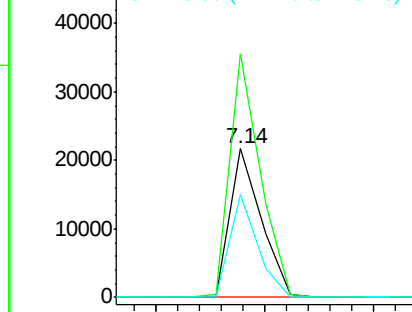
Tgt Ion	Ratio	Lower	Upper
152	100		
150	163.7	122.3	183.5
115	68.7	41.0	61.4



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: 8.98 ng

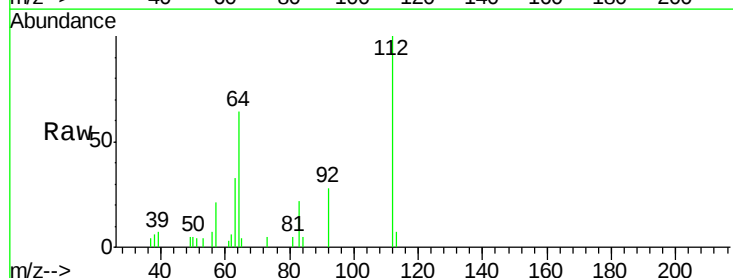
RT: 5.79 min Scan# 324

Delta R.T. 0.00 min

Lab File: BF080424.D

Acq: 11 Jul 2015 9:21

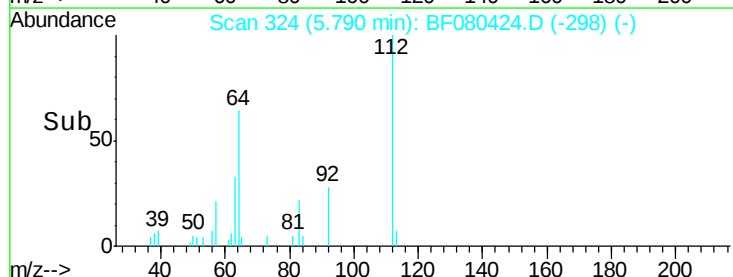
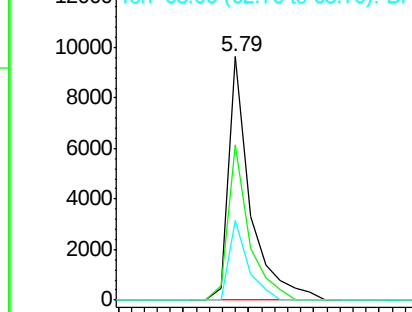
Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.9	54.3	81.5
63	32.6	26.7	40.1

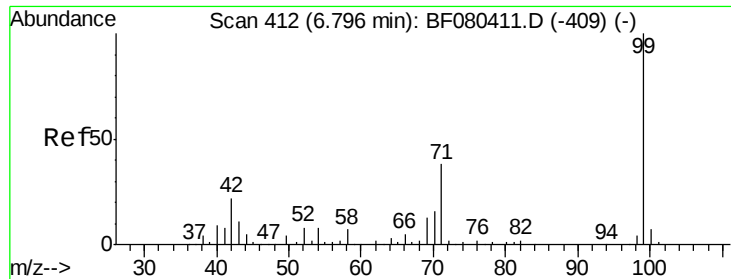


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 15.79 ng

RT: 6.80 min Scan# 412

Delta R.T. 0.00 min

Lab File: BF080424.D

Acq: 11 Jul 2015 9:21

Instrument :

BNA_F

ClientSampleId :

FILLSOURCE-2

Tgt Ion: 99 Resp: 26277

Ion Ratio Lower Upper

99 100

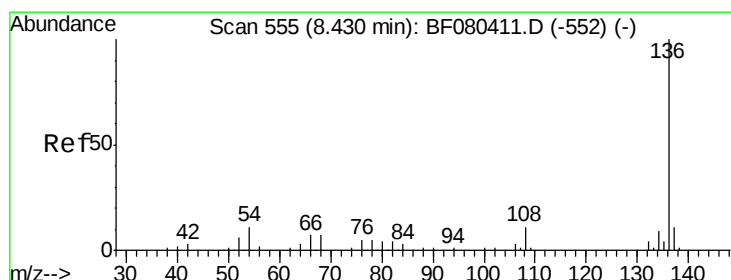
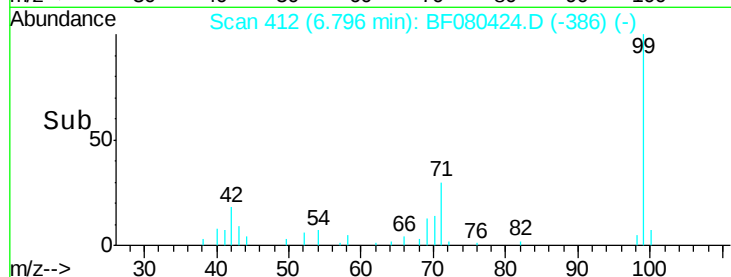
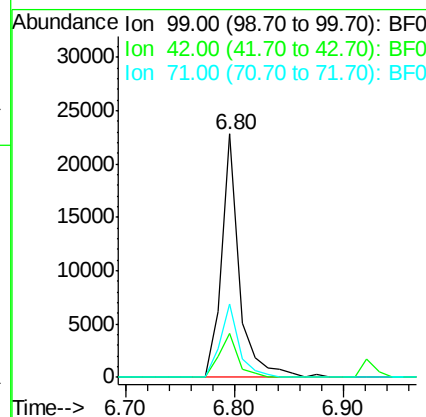
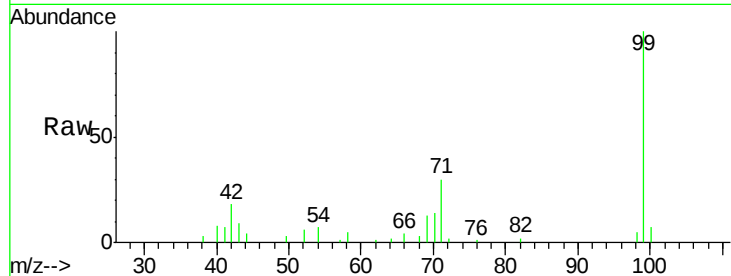
42 17.9 17.9 26.9#

71 30.1 30.1 45.1#

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.43 min Scan# 555

Delta R.T. 0.00 min

Lab File: BF080424.D

Acq: 11 Jul 2015 9:21

Tgt Ion: 136 Resp: 94810

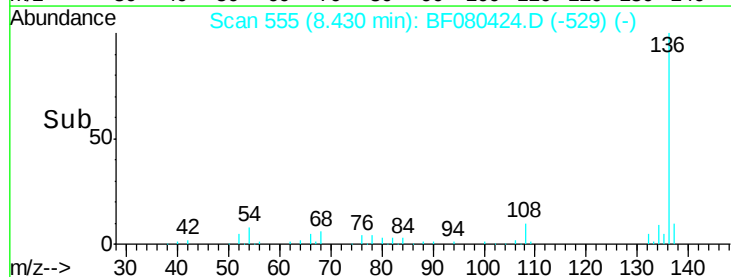
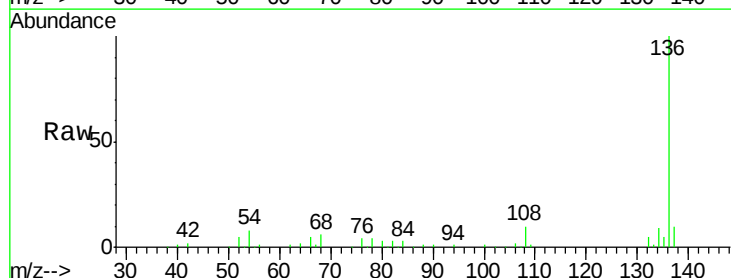
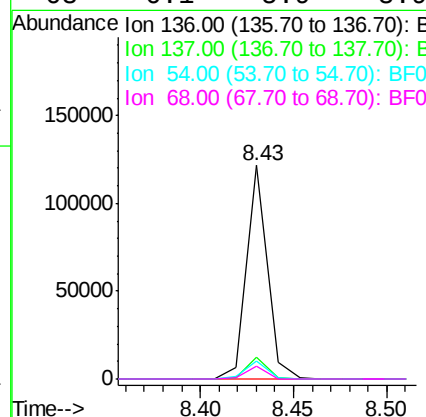
Ion Ratio Lower Upper

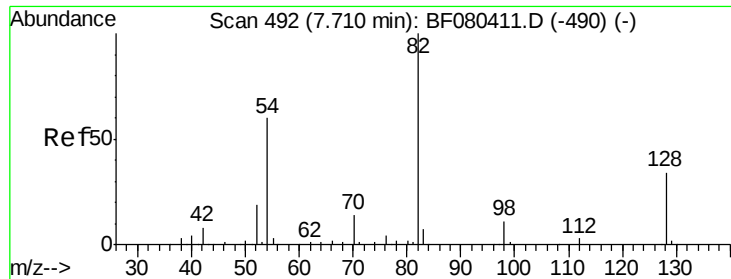
136 100

137 10.4 9.0 13.4

54 8.4 9.1 13.7#

68 6.1 5.9 8.9





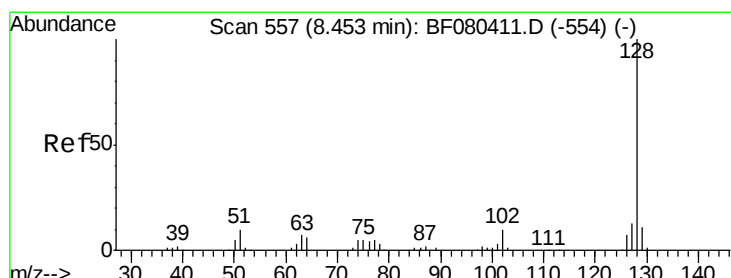
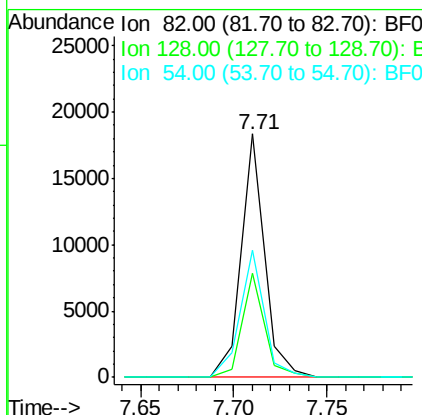
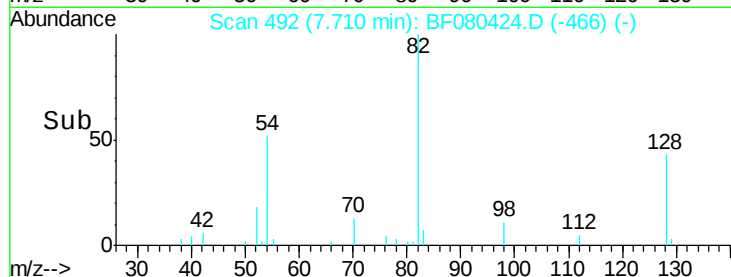
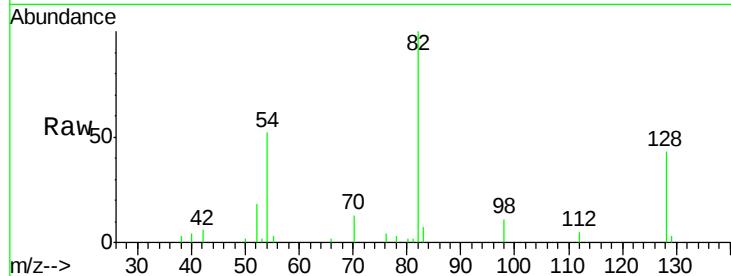
#23
 Nitrobenzene-d5
 Concen: 9.72 ng
 RT: 7.71 min Scan# 492
 Delta R.T. 0.00 min
 Lab File: BF080424.D
 Acq: 11 Jul 2015 9:21

Instrument :
 BNA_F
 ClientSampleId :
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Tgt Ion	Ratio	Resp Lower	Resp Upper
82	100		
128	42.8	26.9	40.3#
54	52.0	47.7	71.5

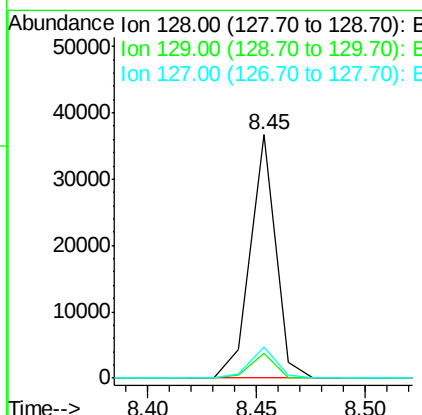
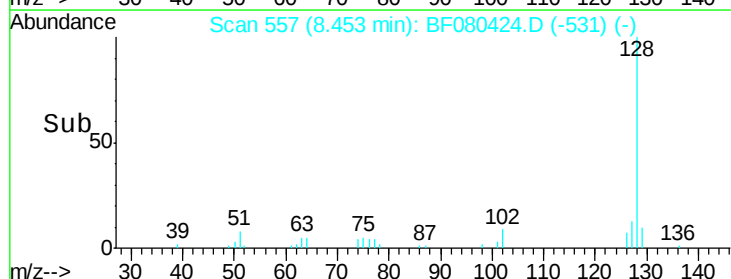
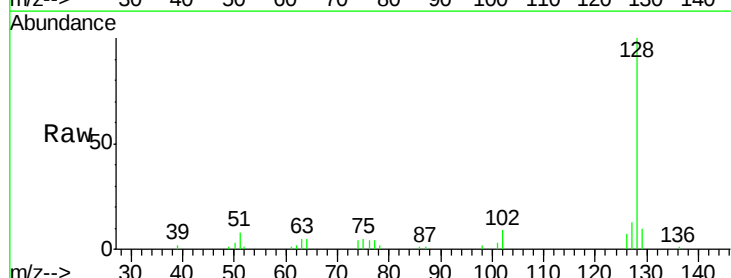
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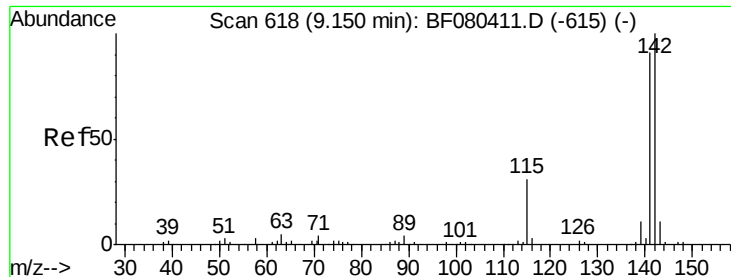
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#31
 Naphthalene
 Concen: 5.73 ng
 RT: 8.45 min Scan# 557
 Delta R.T. 0.00 min
 Lab File: BF080424.D
 Acq: 11 Jul 2015 9:21

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
129	9.9	9.1	13.7
127	13.0	10.7	16.1





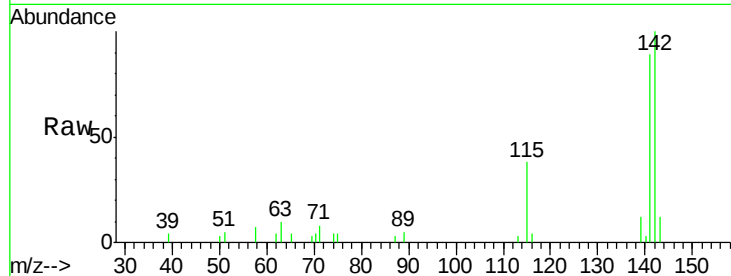
#37
2-Methylnaphthalene
Concen: 3.20 ng m
RT: 9.14 min Scan# 617
Delta R.T. -0.01 min
Lab File: BF080424.D
Acq: 11 Jul 2015 9:21

Instrument :
BNA_F
ClientSampleId :
FILLSOURCE-2

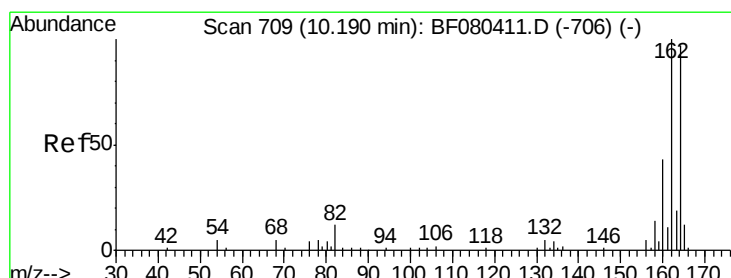
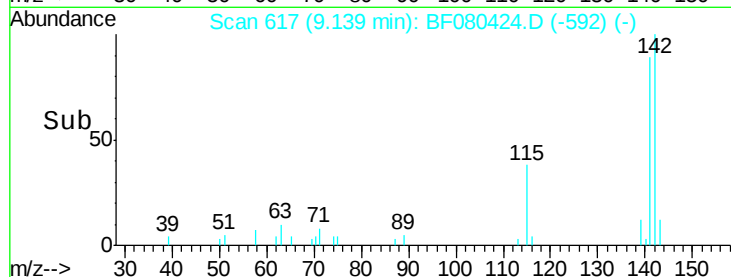
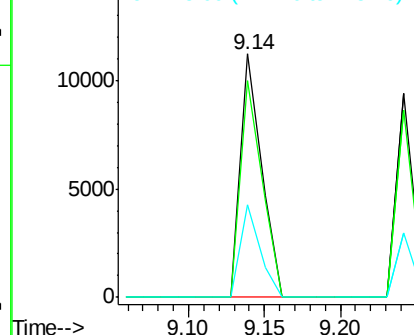
Tgt Ion	Ratio	Resp	Lower	Upper
142	100	10934		
141	88.8	73.0	109.4	
115	38.1	25.0	37.4#	

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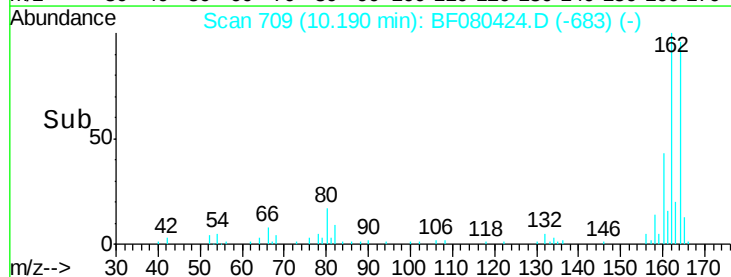
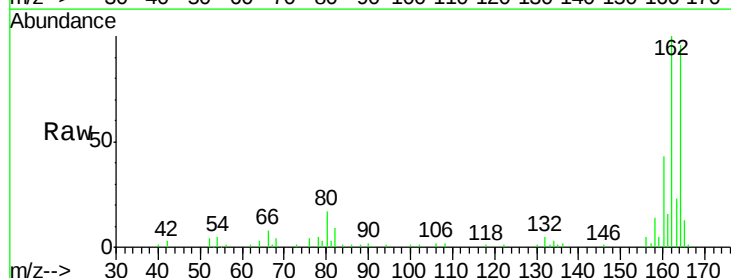
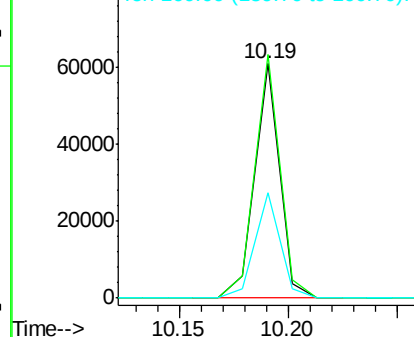
Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

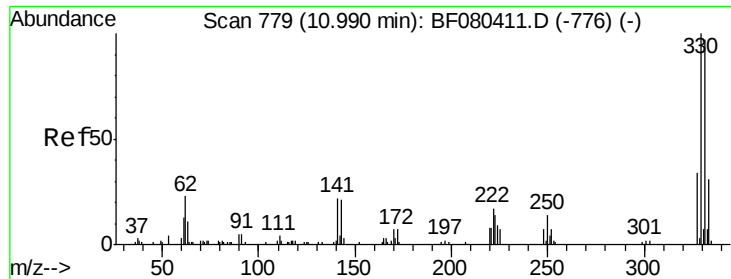


#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.19 min Scan# 709
Delta R.T. 0.00 min
Lab File: BF080424.D
Acq: 11 Jul 2015 9:21

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	48238		
162	103.9	82.7	124.1	
160	45.0	35.5	53.3	

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





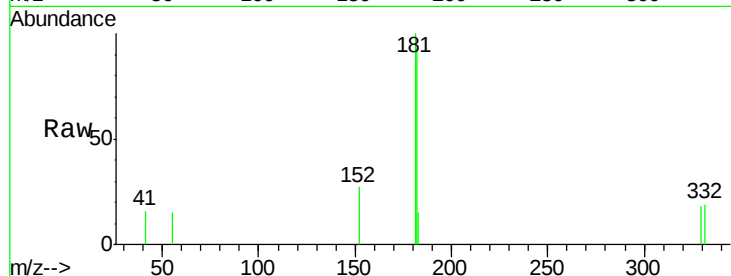
#41
 2,4,6-Tribromophenol
 Concen: 1.05 ng
 RT: 10.99 min Scan# 779
 Delta R.T. 0.00 min
 Lab File: BF080424.D
 Acq: 11 Jul 2015 9:21

Instrument :
 BNA_F
 ClientSampleId :
 FILLSOURCE-2

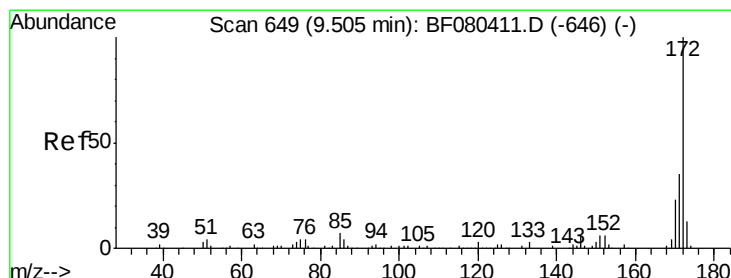
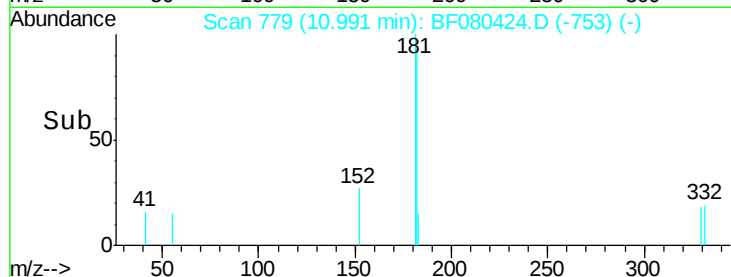
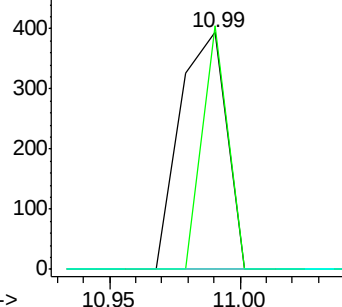
Tgt Ion	Ratio	Lower	Upper
330	100		
332	56.3	78.0	117.0#
141	0.0	28.6	43.0#

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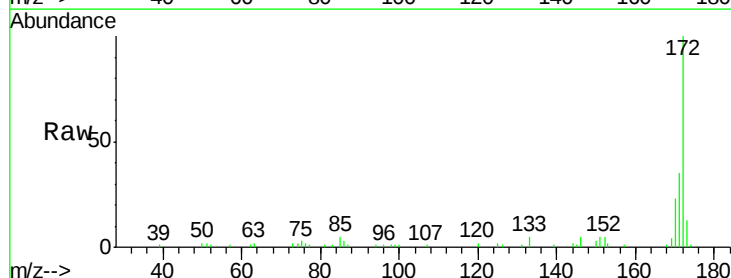


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

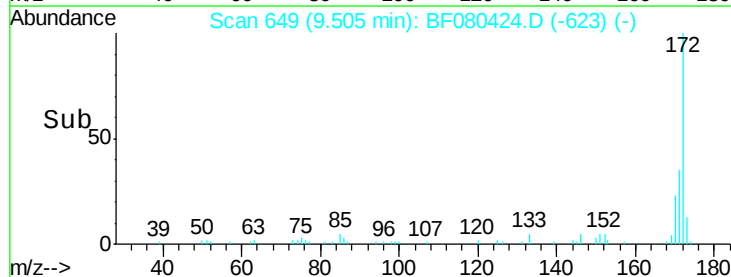
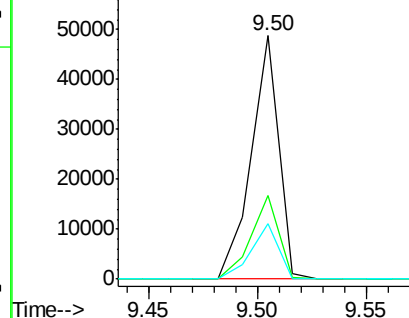


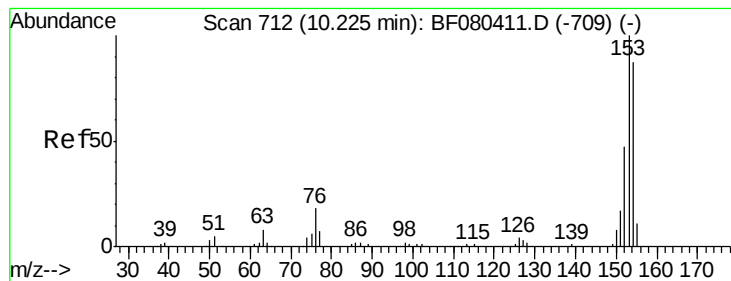
#44
 2-Fluorobiphenyl
 Concen: 11.92 ng
 RT: 9.50 min Scan# 649
 Delta R.T. 0.00 min
 Lab File: BF080424.D
 Acq: 11 Jul 2015 9:21

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.4	42.6
170	22.8	18.6	28.0



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





#51

Acenaphthene

Concen: 4.13 ng

RT: 10.22 min Scan# 712

Delta R.T. 0.00 min

Lab File: BF080424.D

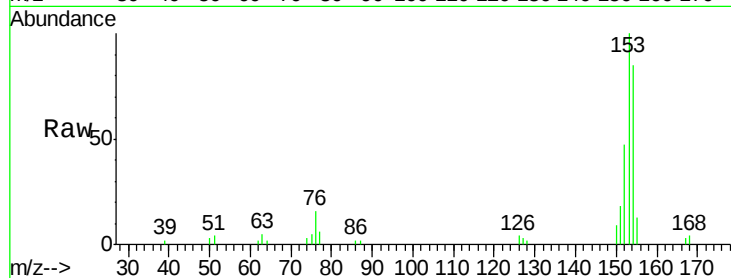
Acq: 11 Jul 2015 9:21

Instrument :

BNA_F

ClientSampleId :

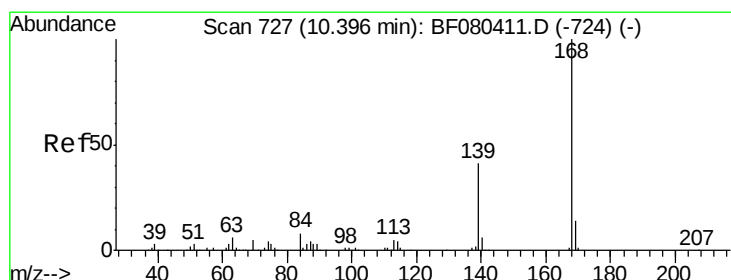
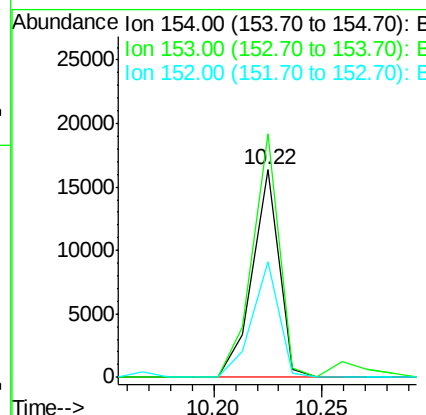
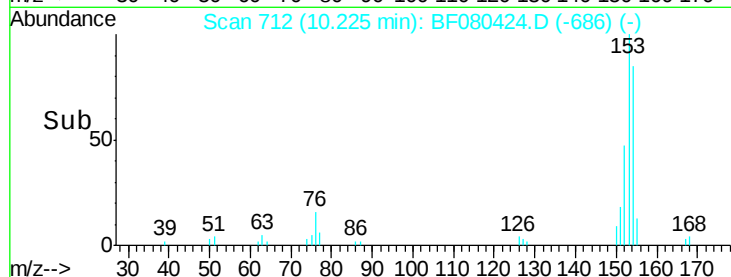
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Tgt Ion:	154	Resp:	13933
Ion Ratio	Lower	Upper	
154	100		
153	117.3	91.7	137.5
152	55.6	43.5	65.3

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#54

Dibenzofuran

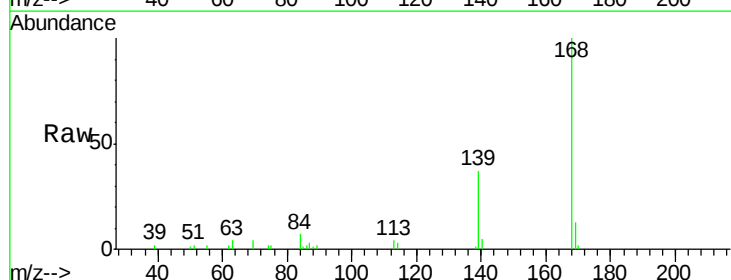
Concen: 5.04 ng

RT: 10.40 min Scan# 727

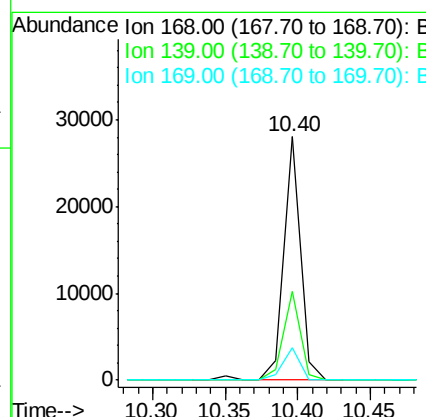
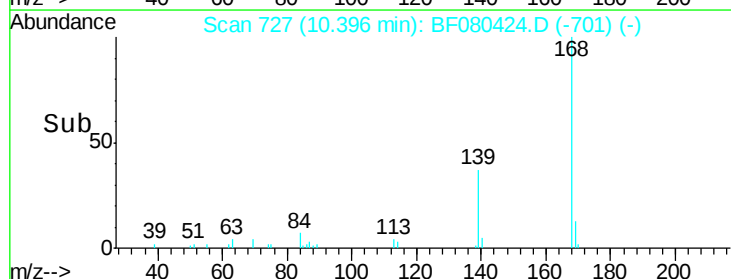
Delta R.T. 0.00 min

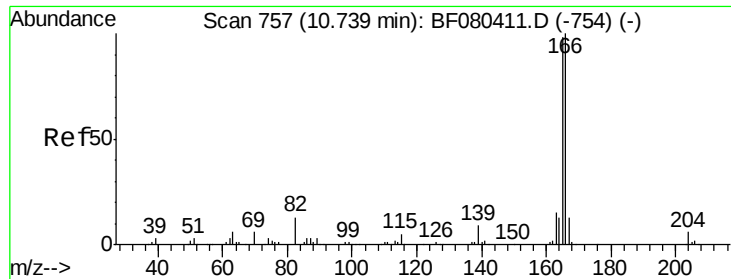
Lab File: BF080424.D

Acq: 11 Jul 2015 9:21



Tgt Ion:	168	Resp:	22524
Ion Ratio	Lower	Upper	
168	100		
139	36.6	33.4	50.2
169	13.1	11.1	16.7





#57

Fluorene

Concen: 6.67 ng

RT: 10.74 min Scan# 757

Delta R.T. 0.00 min

Lab File: BF080424.D

Acq: 11 Jul 2015 9:21

Instrument :

BNA_F

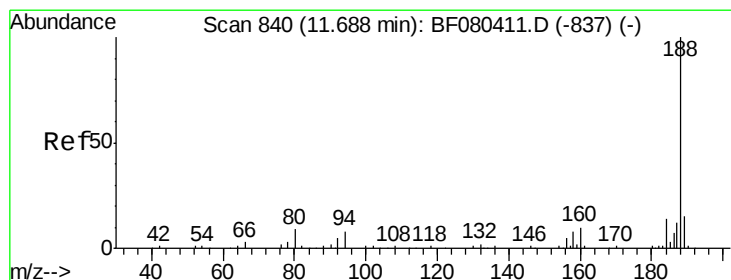
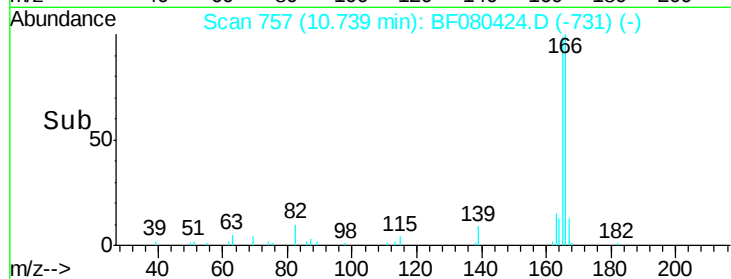
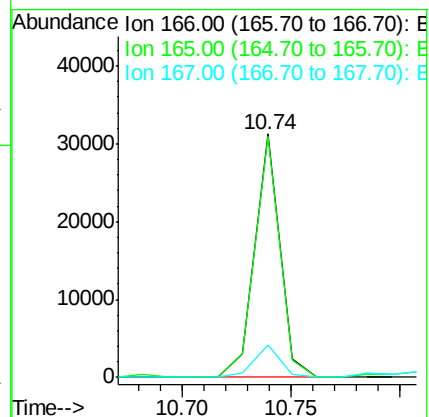
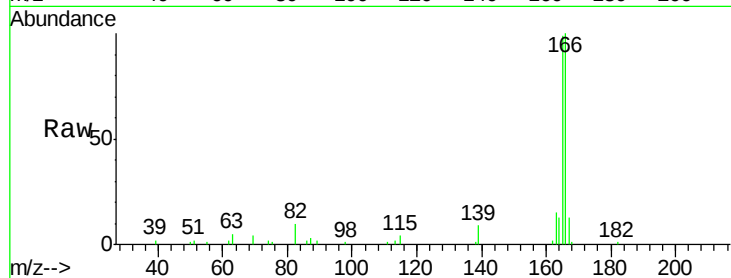
ClientSampleId :

FILLSOURCE-2

Tgt Ion:	166	Resp:	25118
Ion Ratio	Lower	Upper	
166	100		
165	98.9	78.3	117.5
167	13.3	10.6	15.8

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#63

Phenanthrene-d10

Concen: 20.00 ng

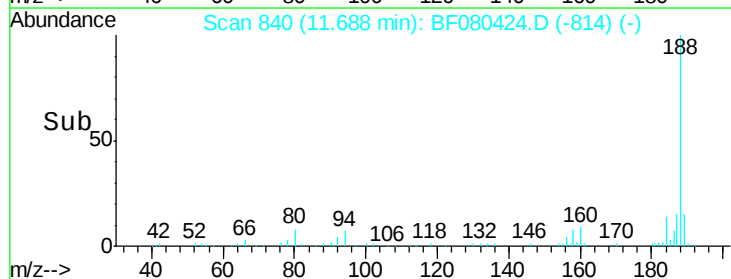
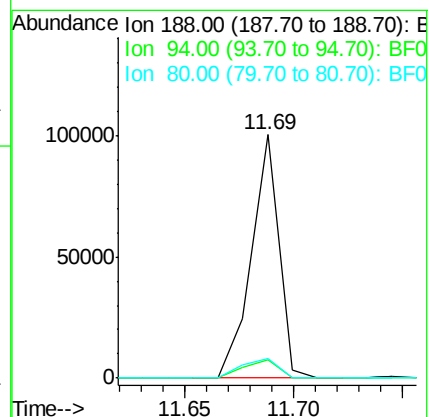
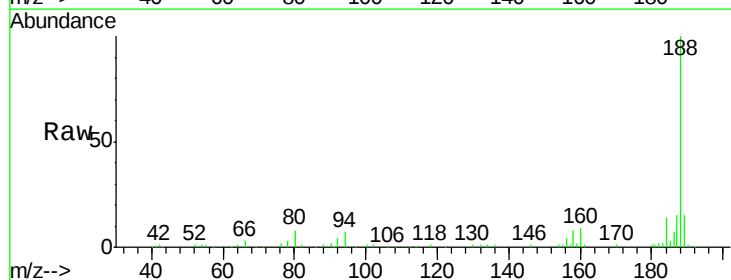
RT: 11.69 min Scan# 840

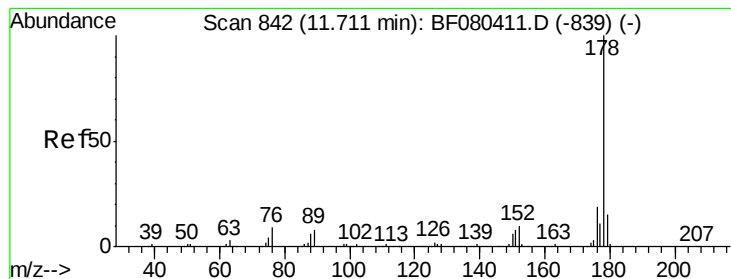
Delta R.T. 0.00 min

Lab File: BF080424.D

Acq: 11 Jul 2015 9:21

Tgt Ion:	188	Resp:	88057
Ion Ratio	Lower	Upper	
188	100		
94	7.5	6.7	10.1
80	8.2	7.5	11.3





#70

Phenanthrene

Concen: 41.57 ng

RT: 11.71 min Scan# 842

Delta R.T. 0.00 min

Lab File: BF080424.D

Acq: 11 Jul 2015 9:21

Instrument :

BNA_F

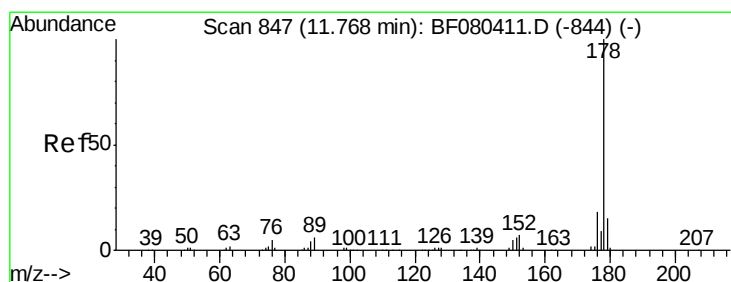
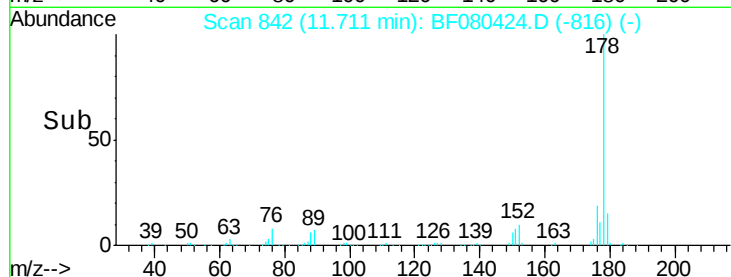
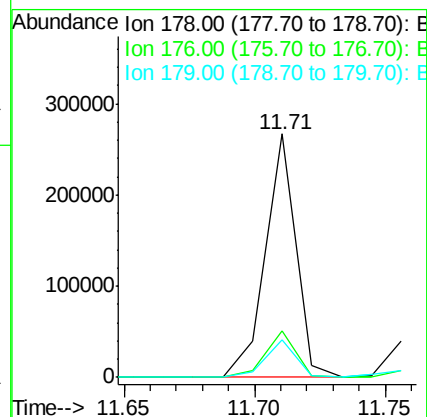
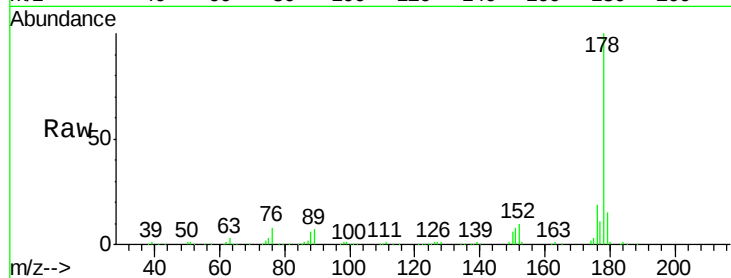
ClientSampleId :

FILLSOURCE-2

Tgt Ion:	178	Resp:	219922
Ion Ratio	Lower	Upper	
178	100		
176	19.2	15.2	22.8
179	15.3	12.4	18.6

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#71

Anthracene

Concen: 10.69 ng

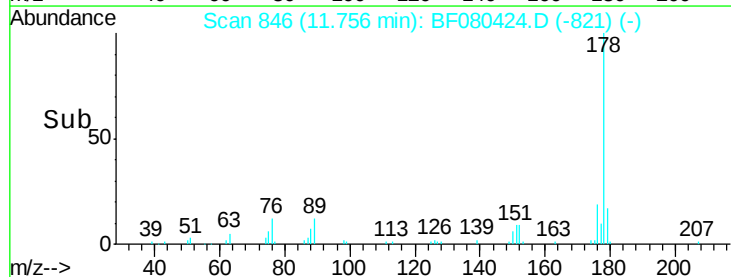
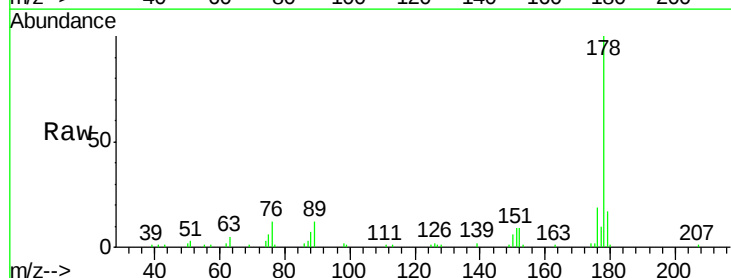
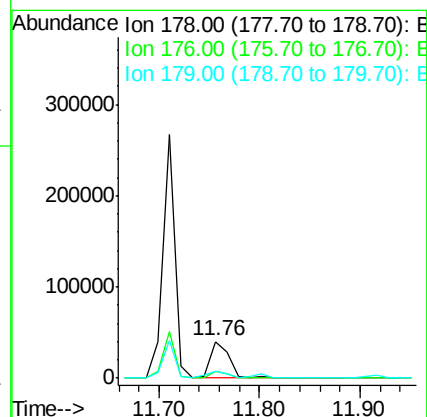
RT: 11.76 min Scan# 846

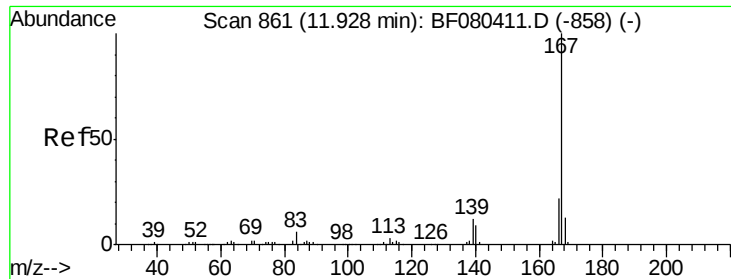
Delta R.T. -0.01 min

Lab File: BF080424.D

Acq: 11 Jul 2015 9:21

Tgt Ion:	178	Resp:	52383
Ion Ratio	Lower	Upper	
178	100		
176	18.6	14.2	21.4
179	17.1	11.6	17.4





#72

Carbazole

Concen: 4.34 ng

RT: 11.93 min Scan# 861

Delta R.T. 0.00 min

Lab File: BF080424.D

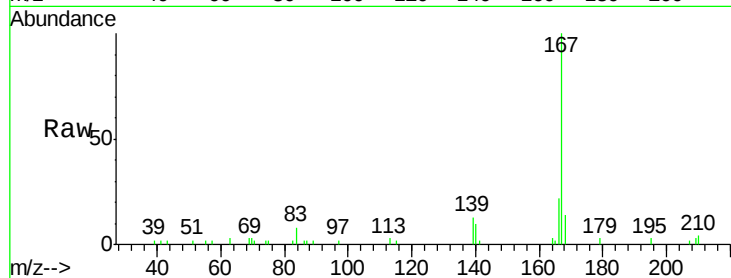
Acq: 11 Jul 2015 9:21

Instrument :

BNA_F

ClientSampleId :

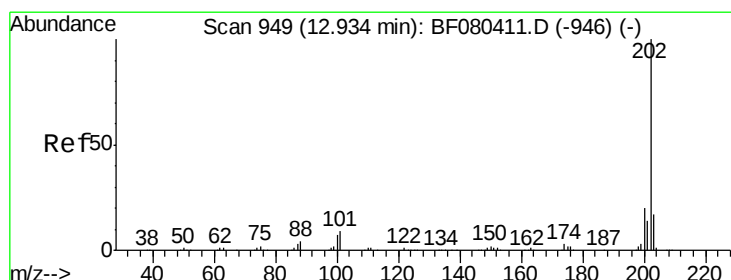
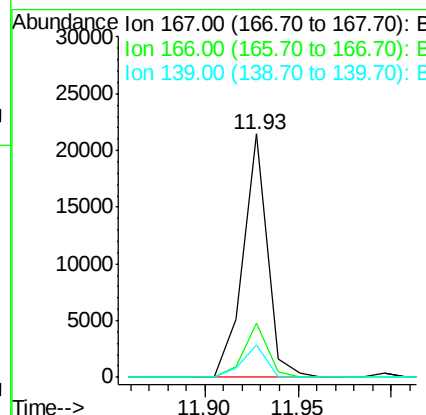
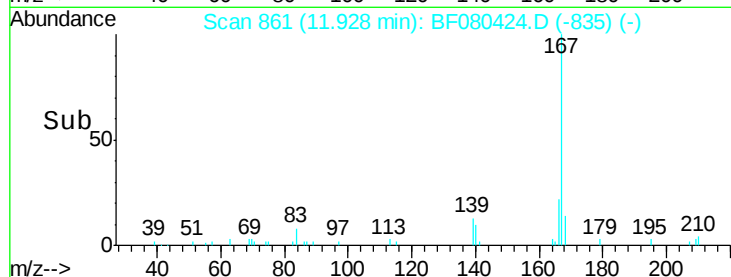
FILLSOURCE-2



Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.2	17.4	26.2
139	13.1	9.5	14.3

Manual Integrations
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#74

Fluoranthene

Concen: 34.81 ng

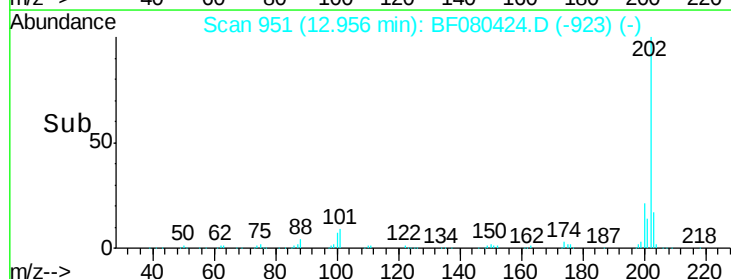
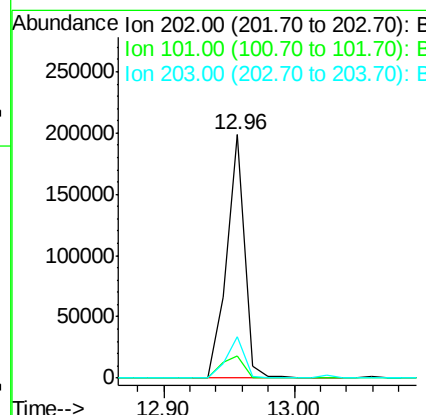
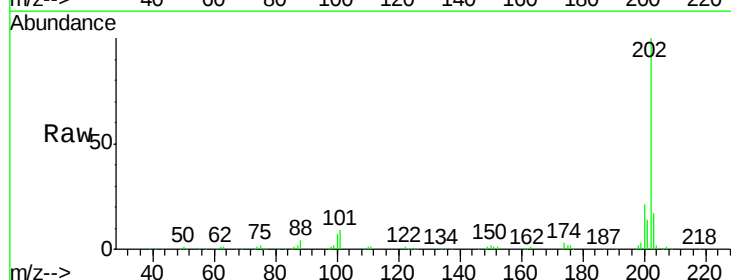
RT: 12.96 min Scan# 951

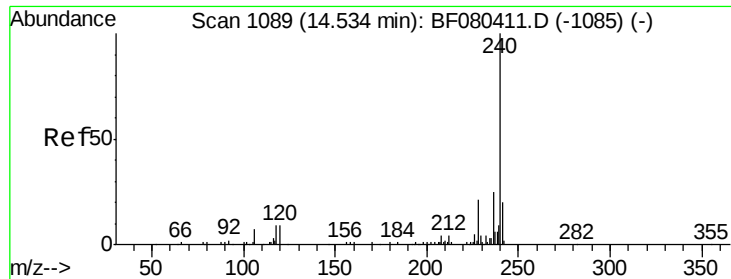
Delta R.T. 0.02 min

Lab File: BF080424.D

Acq: 11 Jul 2015 9:21

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.2	0.0	28.8
203	17.1	0.0	37.3





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.60 min Scan# 1095

Delta R.T. 0.07 min

Lab File: BF080424.D

Acq: 11 Jul 2015 9:21

Instrument :

BNA_F

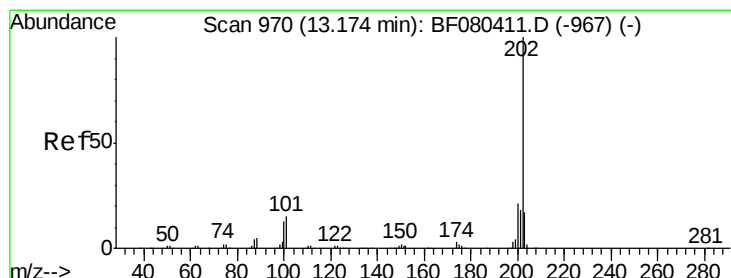
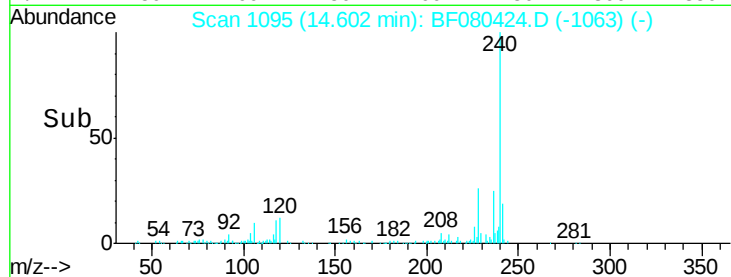
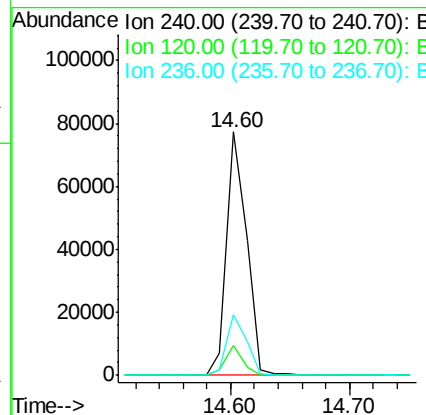
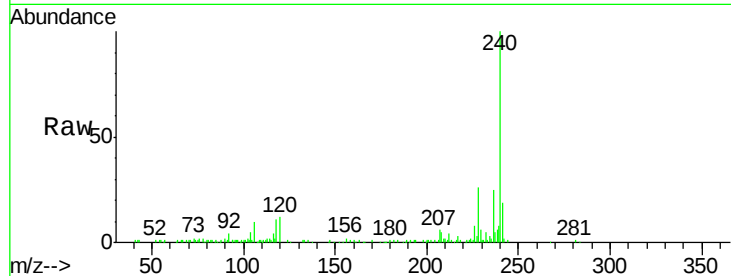
ClientSampleId :

FILLSOURCE-2

Tgt	Ion	Ratio	Resp	Lower	Upper
240	100		89634		
120	12.4	7.4	11.2#		
236	24.9	19.7	29.5		

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#77

Pyrene

Concen: 27.19 ng

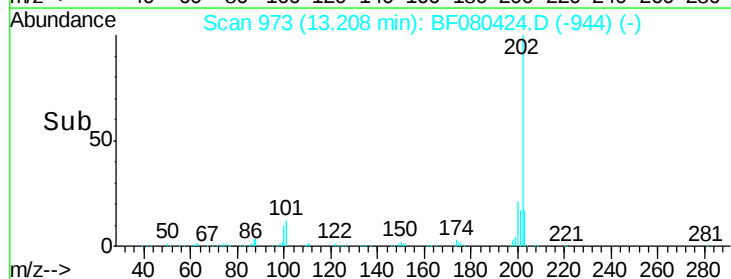
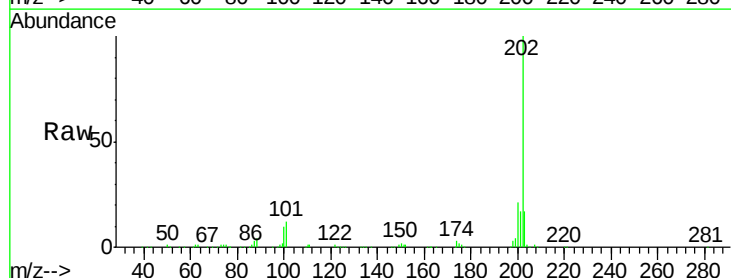
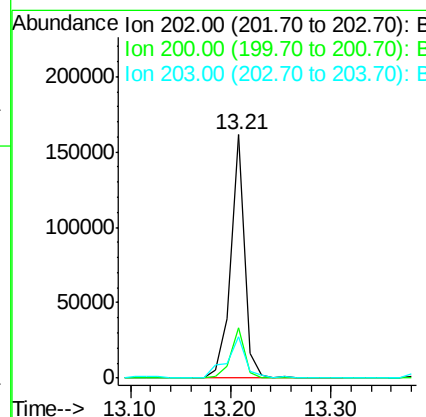
RT: 13.21 min Scan# 973

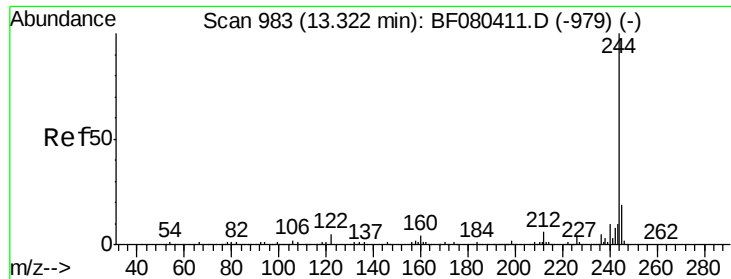
Delta R.T. 0.03 min

Lab File: BF080424.D

Acq: 11 Jul 2015 9:21

Tgt	Ion	Ratio	Resp	Lower	Upper
202	100		156154		
200	20.6	17.0	25.6		
203	17.0	13.8	20.8		





#78

Terphenyl-d14

Concen: 11.07 ng

RT: 13.35 min Scan# 985

Delta R.T. 0.02 min

Lab File: BF080424.D

Acq: 11 Jul 2015 9:21

Instrument :

BNA_F

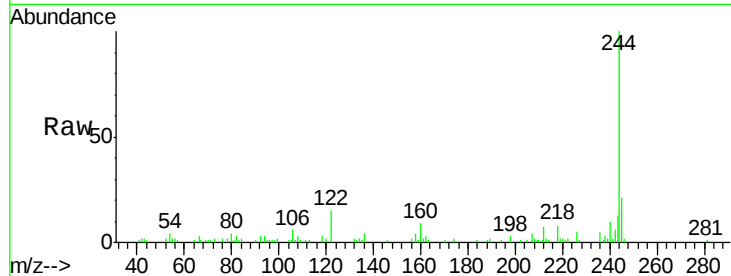
ClientSampleId :

FILLSOURCE-2

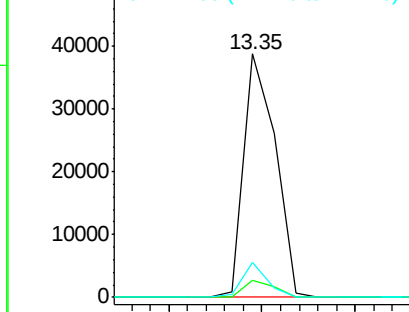
Tgt Ion:	244	Resp:	45703
Ion Ratio	Lower	Upper	
244	100		
212	7.2	4.9	7.3
122	14.5	4.1	6.1#

Manual Integrations
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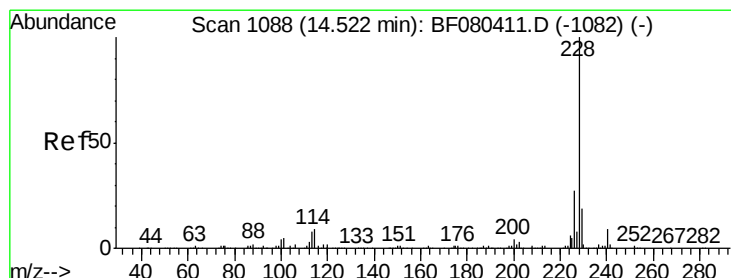
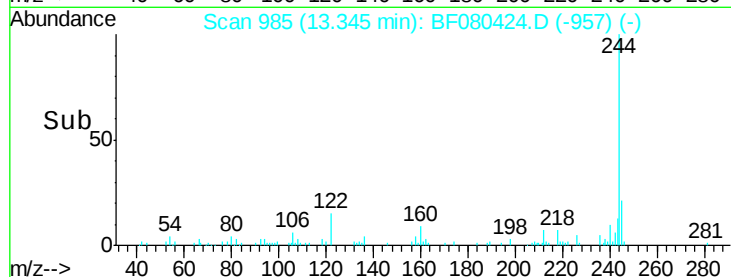
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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



Time-->



#80

Benzo(a)anthracene

Concen: 13.39 ng

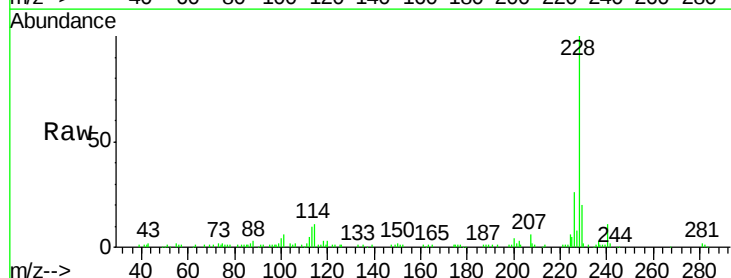
RT: 14.59 min Scan# 1094

Delta R.T. 0.07 min

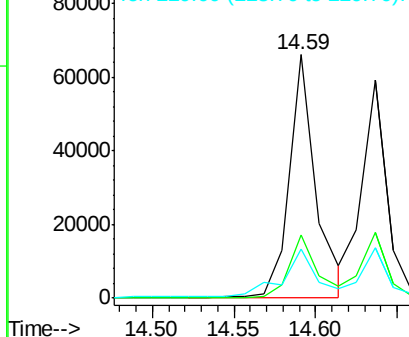
Lab File: BF080424.D

Acq: 11 Jul 2015 9:21

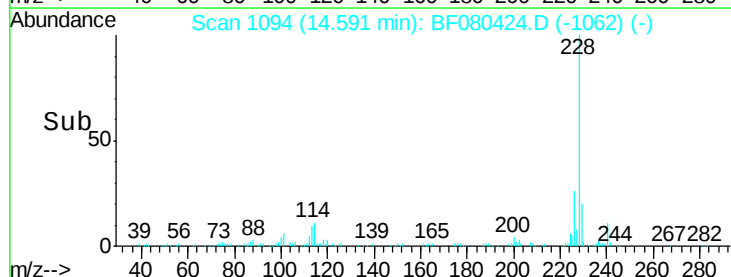
Tgt Ion:	228	Resp:	75611
Ion Ratio	Lower	Upper	
228	100		
226	26.1	21.7	32.5
229	20.1	15.5	23.3

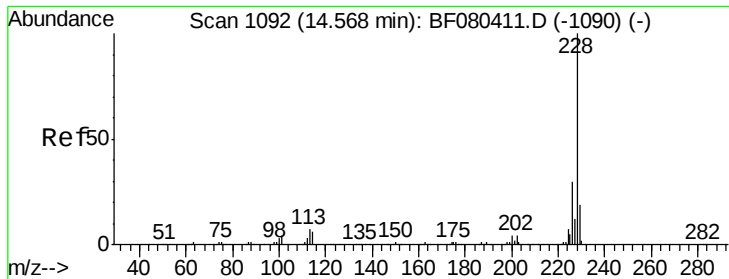


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



Time-->





#82

Chrysene

Concen: 12.45 ng

RT: 14.64 min Scan# 1098

Delta R.T. 0.07 min

Lab File: BF080424.D

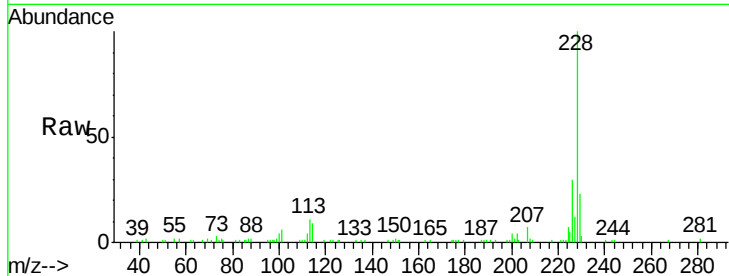
Acq: 11 Jul 2015 9:21

Instrument :

BNA_F

ClientSampleId :

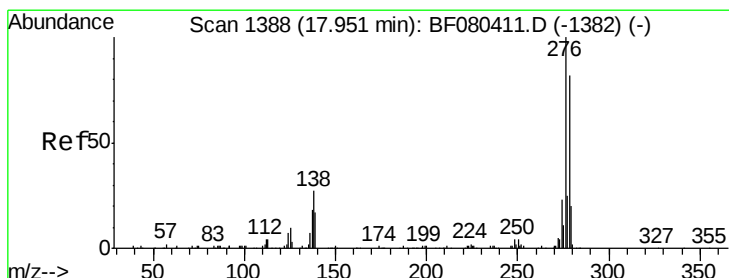
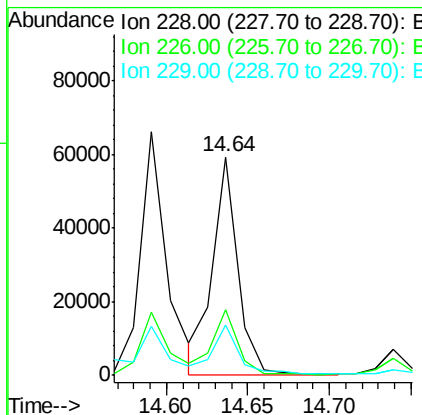
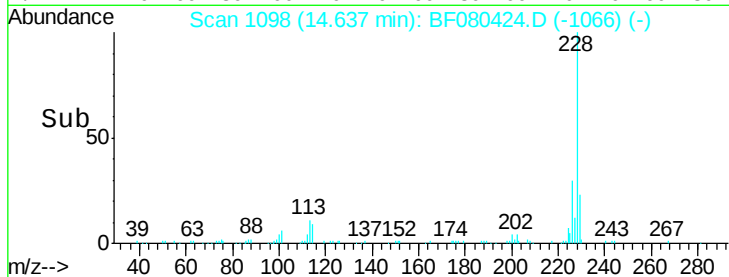
FILLSOURCE-2



Tgt Ion:	228	Resp:	64777
Ion Ratio	Lower	Upper	
228	100		
226	30.1	24.3	36.5
229	23.0	15.5	23.3

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#85

Indeno(1,2,3-cd)pyrene

Concen: 5.25 ng

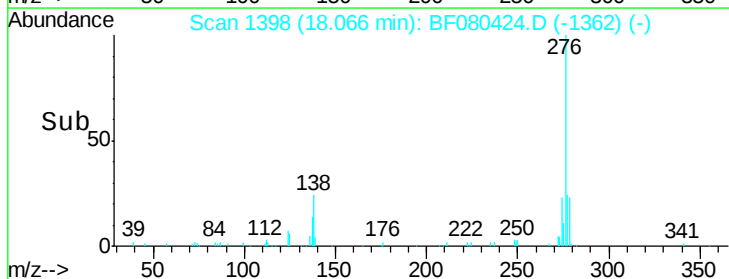
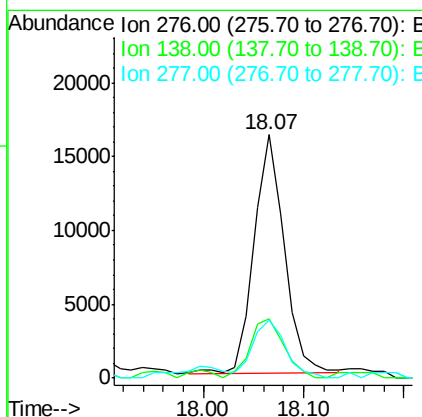
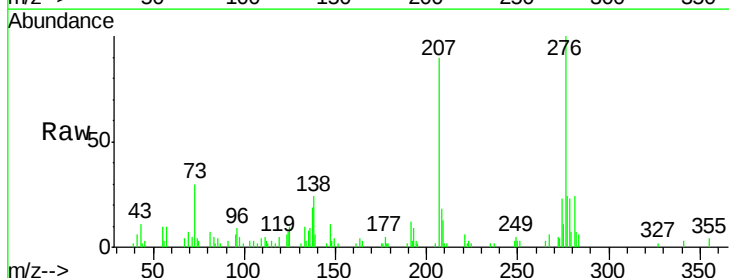
RT: 18.07 min Scan# 1398

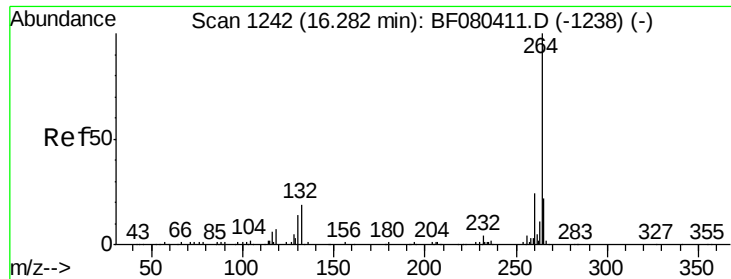
Delta R.T. 0.11 min

Lab File: BF080424.D

Acq: 11 Jul 2015 9:21

Tgt Ion:	276	Resp:	33913
Ion Ratio	Lower	Upper	
276	100		
138	27.6	21.4	32.0
277	26.4	19.5	29.3





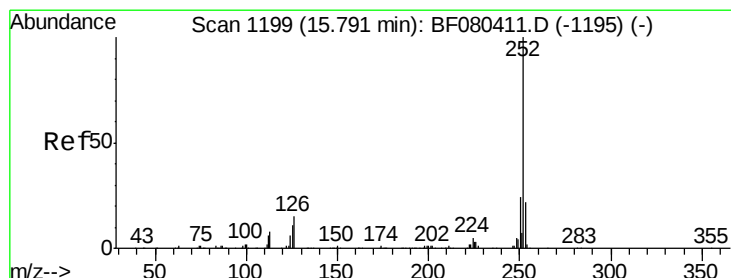
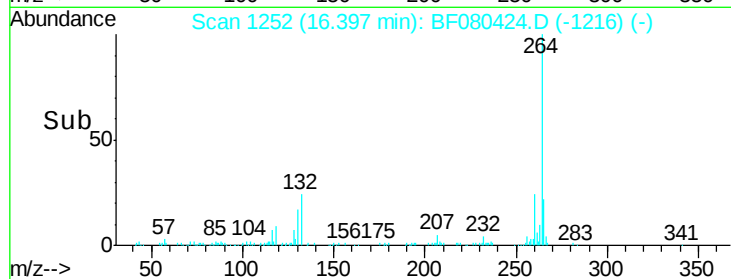
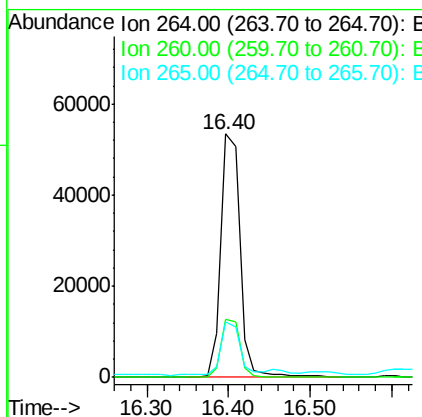
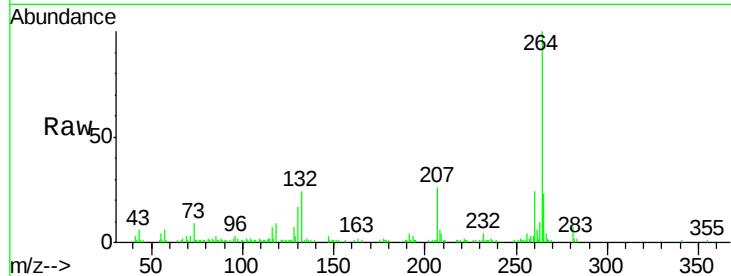
#86
Perylene-d12
Concen: 20.00 ng
RT: 16.40 min Scan# 1252
Delta R.T. 0.11 min
Lab File: BF080424.D
Acq: 11 Jul 2015 9:21

Instrument :
BNA_F
ClientSampleId :
FILLSOURCE-2

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.4	29.2
265	22.9	17.8	26.8

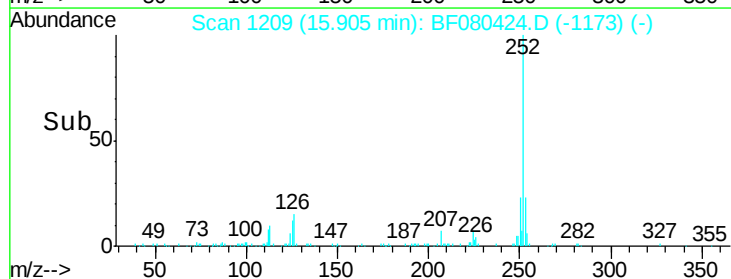
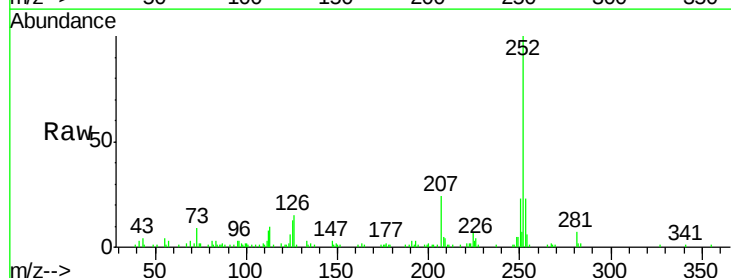
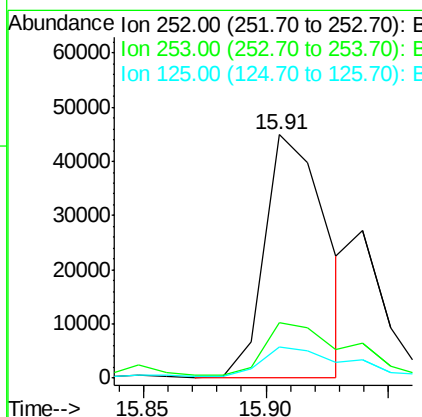
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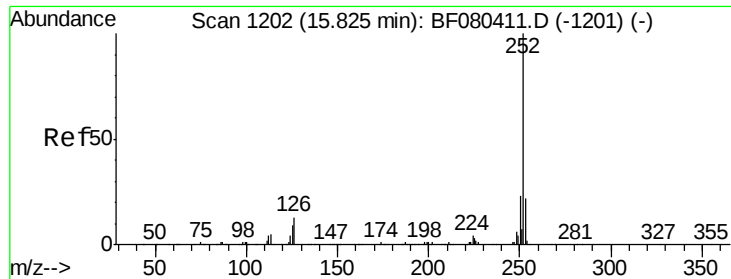
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#87
Benzo(b)fluoranthene
Concen: 12.93 ng m
RT: 15.91 min Scan# 1209
Delta R.T. 0.11 min
Lab File: BF080424.D
Acq: 11 Jul 2015 9:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.8	26.8
125	12.6	8.6	12.8





#88

Benzo(k)fluoranthene

Concen: 5.51 ng m

RT: 15.94 min Scan# 1212

Delta R.T. 0.11 min

Lab File: BF080424.D

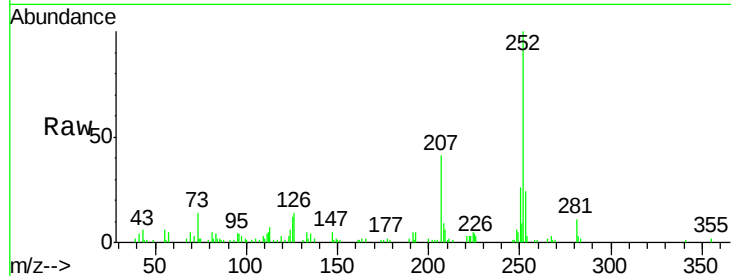
Acq: 11 Jul 2015 9:21

Instrument :

BNA_F

ClientSampleId :

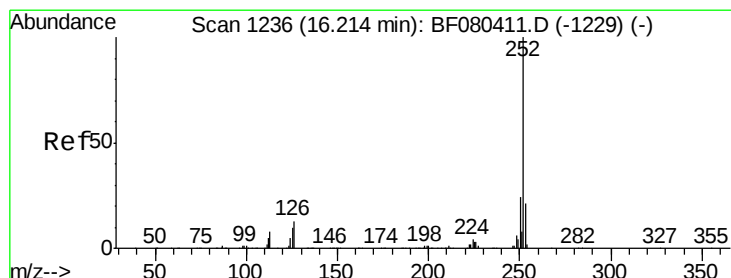
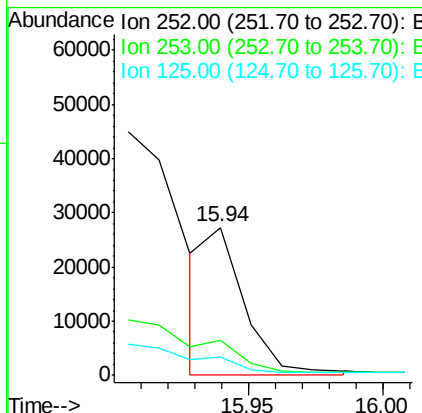
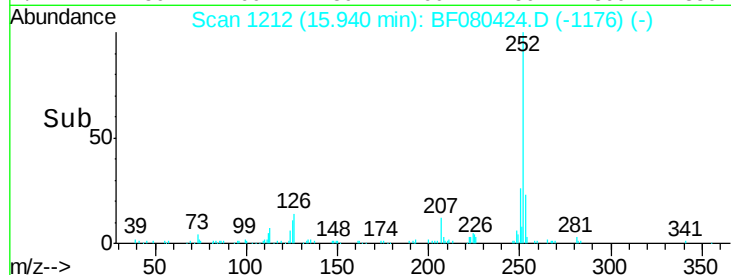
FILLSOURCE-2



Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.7	26.5
125	12.2	8.4	12.6

Manual Integrations
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#89

Benzo(a)pyrene

Concen: 10.55 ng

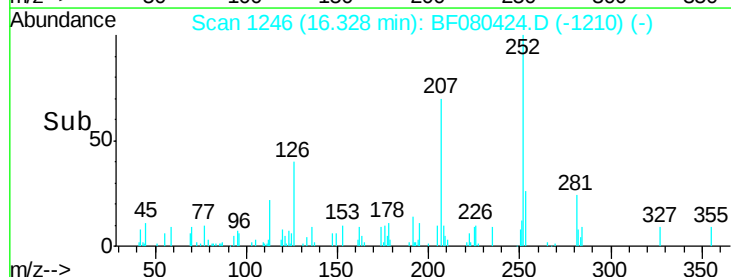
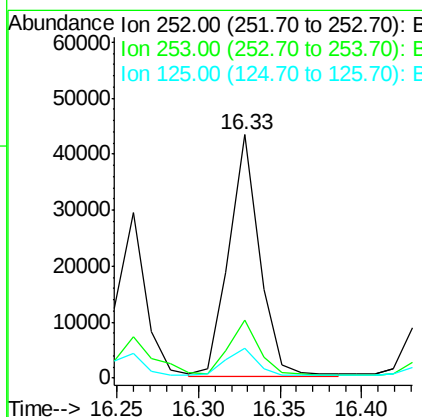
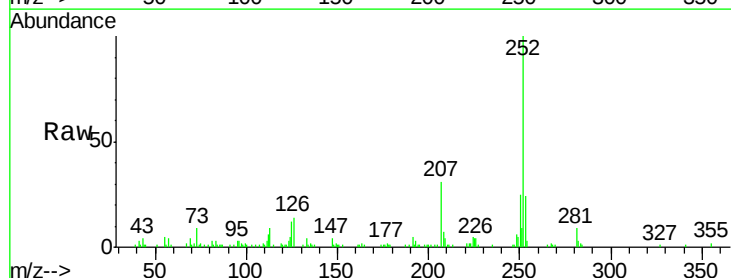
RT: 16.33 min Scan# 1246

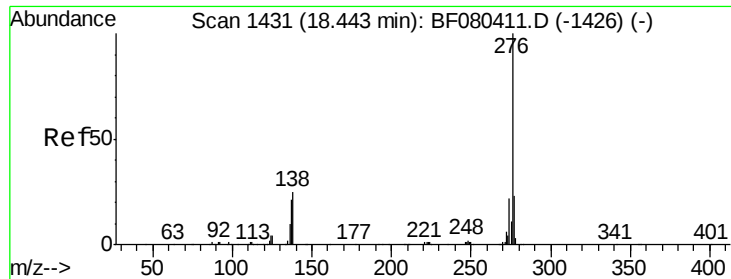
Delta R.T. 0.11 min

Lab File: BF080424.D

Acq: 11 Jul 2015 9:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.0	25.6
125	12.1	8.1	12.1#





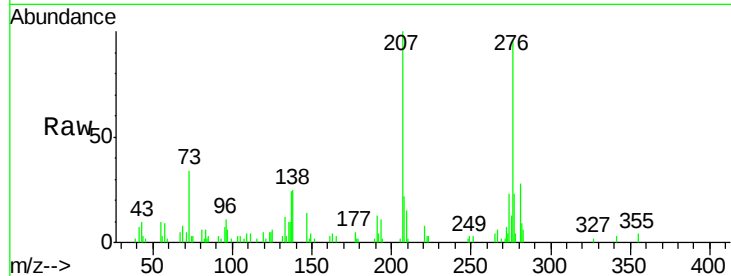
#91
 Benzo(g,h,i)perylene
 Concen: 6.47 ng
 RT: 18.57 min Scan# 1442
 Delta R.T. 0.13 min
 Lab File: BF080424.D
 Acq: 11 Jul 2015 9:21

Instrument :
 BNA_F
 ClientSampleId :
 FILLSOURCE-2

Tgt Ion:	276	Resp:	33885
Ion Ratio		Lower	Upper
276	100		
277	23.9	18.2	27.4
138	25.8	20.3	30.5

Manual Integrations
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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

