

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
 Data File : BF098569.D
 Acq On : 15 Sep 2017 15:06
 Operator : SJ/JU
 Sample : I5188-07
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RL-4-12.25-24.5

Manual Integrations
 APPROVED

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 9/18/2017 3:33:37 PM

Quant Time: Sep 15 16:04:48 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 15 13:23:10 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.64	152	140987	20.00	ng	0.00
21) Naphthalene-d8	7.93	136	562740	20.00	ng	0.00
38) Acenaphthene-d10	9.68	164	241000	20.00	ng	0.00
63) Phenanthrene-d10	11.16	188	378149	20.00	ng	0.00
75) Chrysene-d12	13.80	240	275454	20.00	ng	0.00
86) Perylene-d12	15.21	264	260752	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.25	112	781073	81.91	ng	0.00
7) Phenol-d6	6.30	99	999284	82.54	ng	0.00
23) Nitrobenzene-d5	7.22	82	601606	59.60	ng	0.00
41) 2,4,6-Tribromophenol	10.47	330	134287	83.49	ng	0.00
44) 2-Fluorobiphenyl	9.00	172	912878	64.20	ng	0.00
78) Terphenyl-d14	12.75	244	553893	43.40	ng	0.00
Target Compounds						
10) Phenol	6.32	94	28955	2.059	ng	Qvalue # 72
31) Naphthalene	7.95	128	159864	5.747	ng	98
37) 2-Methylnaphthalene	8.64	142	55224	3.277	ng	98
49) Dimethylphthalate	9.40	163	128550	6.891	ng	99
70) Phenanthrene	11.19	178	109820	5.478	ng	98
74) Fluoranthene	12.37	202	123238	6.141	ng	97
77) Pyrene	12.60	202	109267	5.028	ng	98
80) Benzo(a)anthracene	13.79	228	46681m	2.891	ng	
82) Chrysene	13.83	228	54034	3.310	ng	98
87) Benzo(b)fluoranthene	14.82	252	64822m	3.954	ng	
89) Benzo(a)pyrene	15.15	252	44604	3.054	ng	# 77
91) Benzo(g,h,i)perylene	16.95	276	22267	2.084	ng	96

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

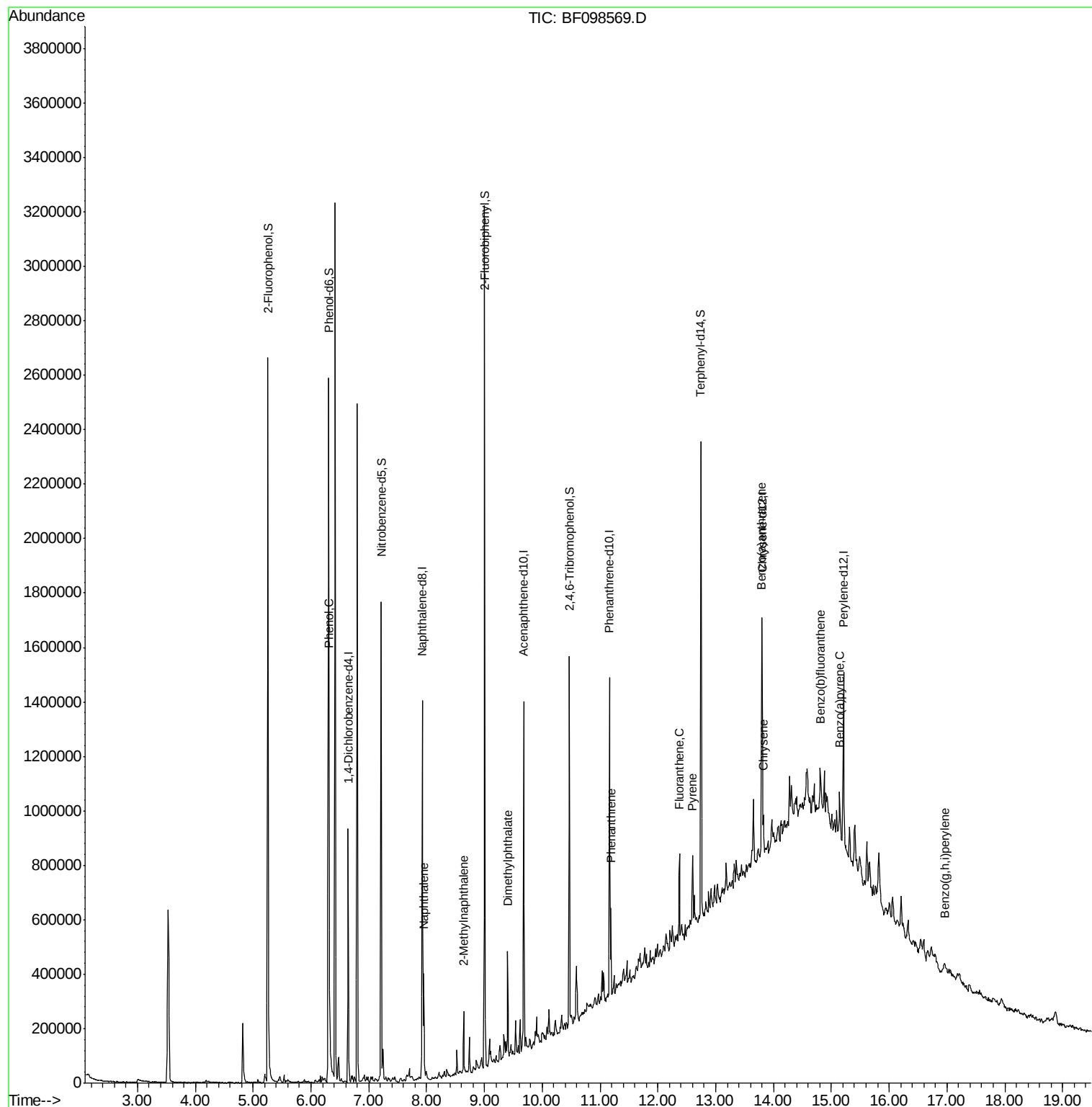
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
Data File : BF098569.D
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ALS Vial : 13 Sample Multiplier: 1

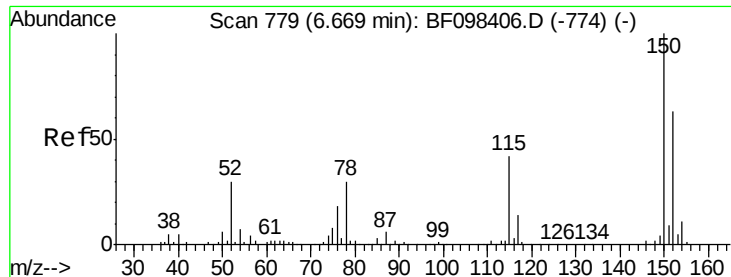
Instrument :
BNA_F
ClientSampleId :
RL-4-12.25-24.5

Manual Integrations
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Quant Time: Sep 15 16:04:48 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
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#1

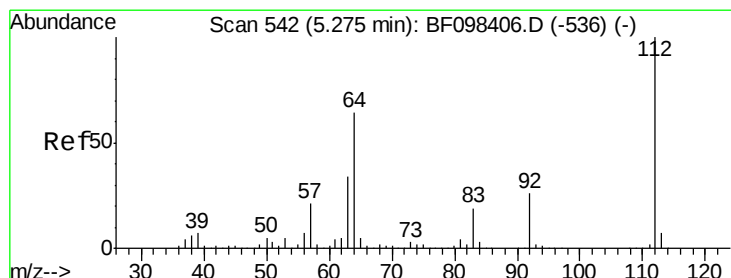
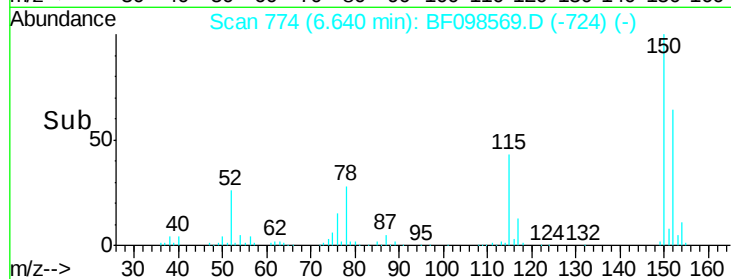
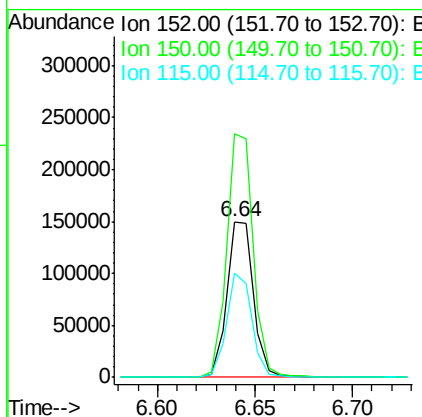
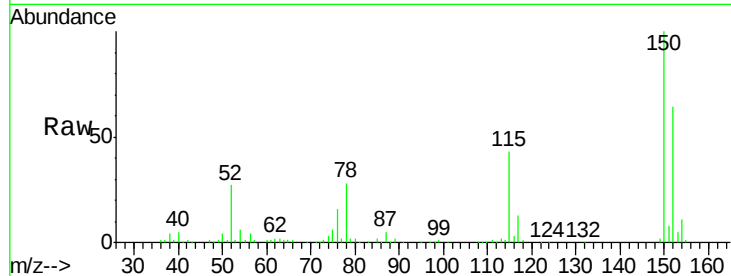
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.64 min Scan# 774
Delta R.T. -0.01 min
Lab File: BF098569.D
Acq: 15 Sep 2017 15:06

Instrument :
BNA_F
ClientSampleId :
RL-4-12.25-24.5

Tgt Ion	Ratio	Lower	Upper
152	100		
150	156.3	126.2	189.2
115	66.9	52.2	78.2

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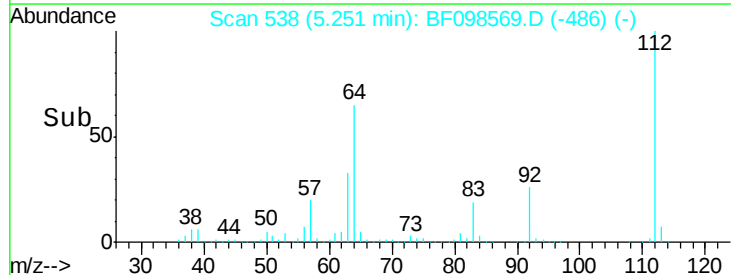
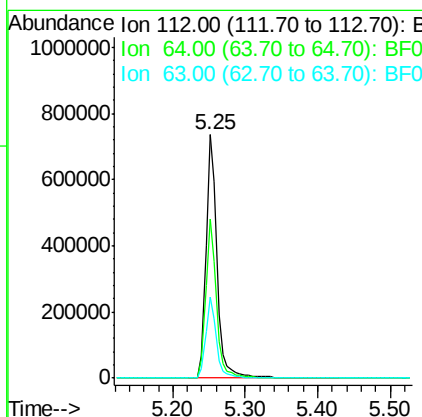
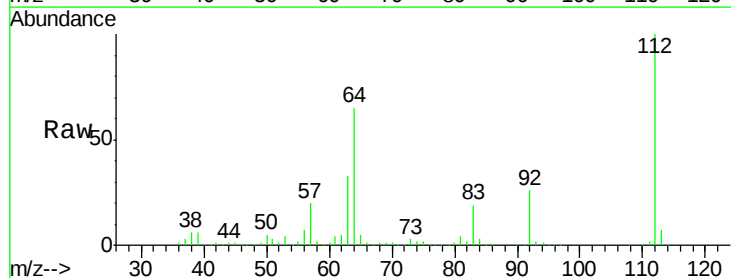
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#5

2-Fluorophenol
Concen: 81.911 ng
RT: 5.25 min Scan# 538
Delta R.T. 0.01 min
Lab File: BF098569.D
Acq: 15 Sep 2017 15:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.4	46.0	69.0
63	33.5	23.4	35.0





#7

Phenol-d6

Concen: 82.537 ng

RT: 6.30 min Scan# 717

Delta R.T. 0.01 min

Lab File: BF098569.D

Acq: 15 Sep 2017 15:06

Instrument :

BNA_F

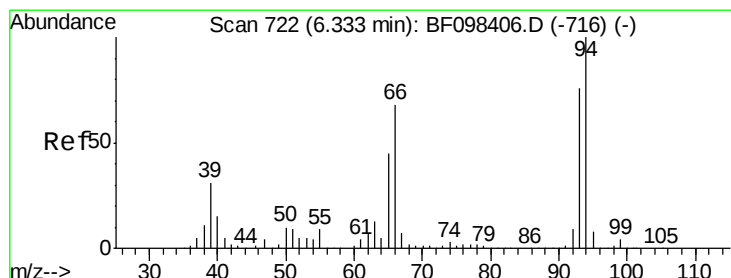
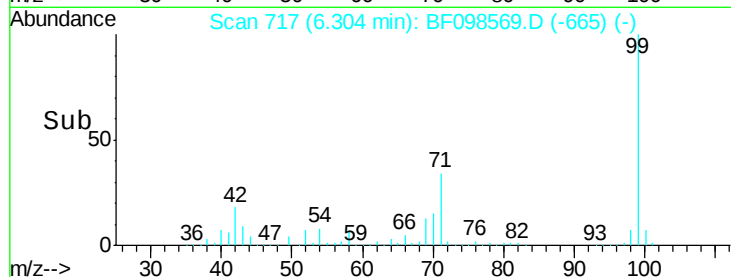
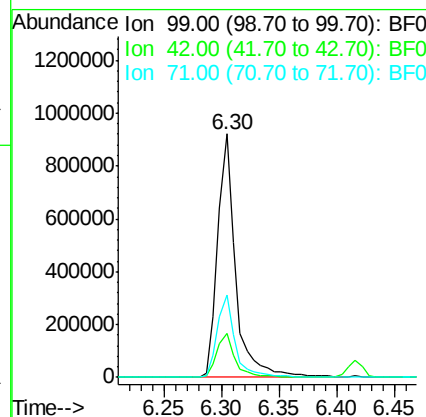
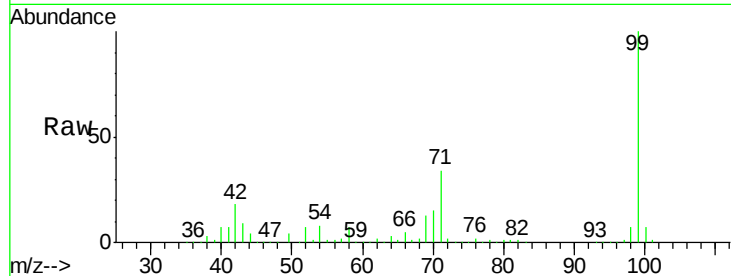
ClientSampleId :

RL-4-12.25-24.5

Tgt Ion:	99	Resp:	999284
Ion Ratio	Lower	Upper	
99	100		
42	18.1	13.5	20.3
71	34.0	24.5	36.7

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#10

Phenol

Concen: 2.059 ng

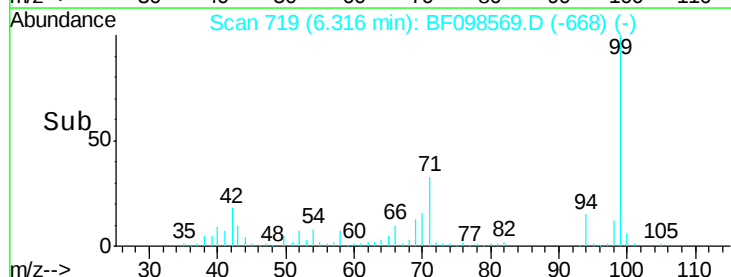
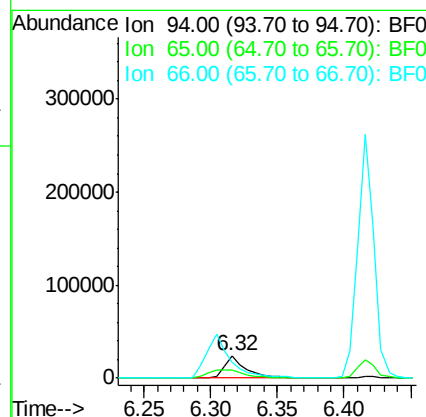
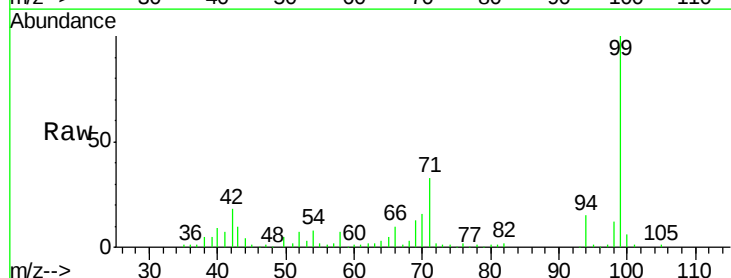
RT: 6.32 min Scan# 719

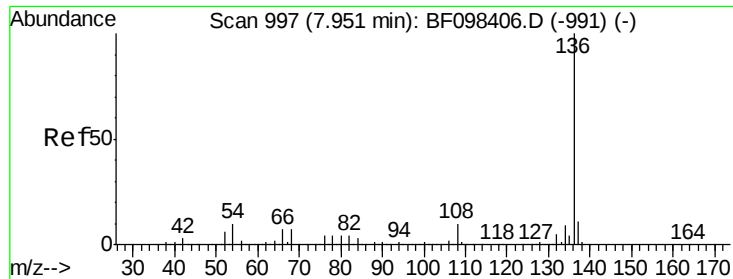
Delta R.T. 0.00 min

Lab File: BF098569.D

Acq: 15 Sep 2017 15:06

Tgt Ion:	94	Resp:	28955
Ion Ratio	Lower	Upper	
94	100		
65	36.9	9.9	49.9
66	67.9	23.1	63.1#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.93 min Scan# 993

Delta R.T. -0.01 min

Lab File: BF098569.D

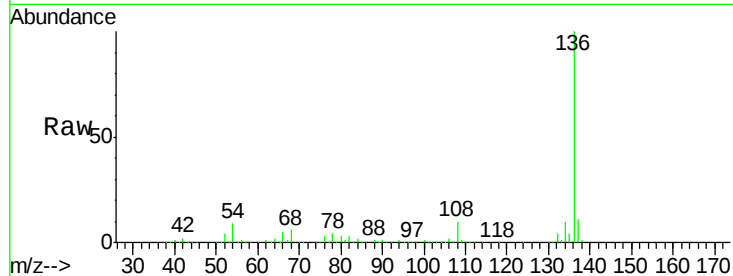
Acq: 15 Sep 2017 15:06

Instrument :

BNA_F

ClientSampleId :

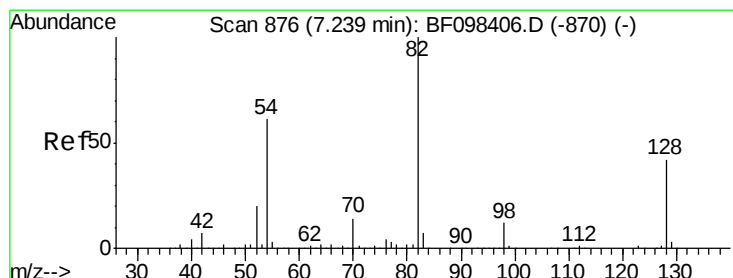
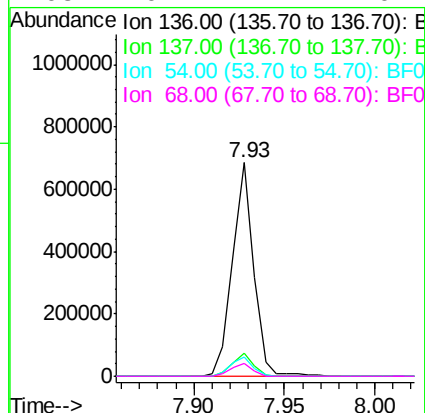
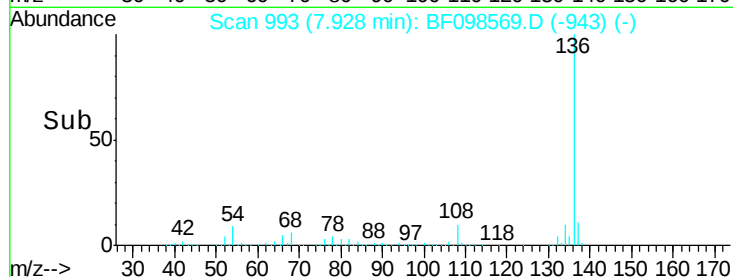
RL-4-12.25-24.5



Tgt Ion	Ratio	Resp	Lower	Upper
136	100	562740		
137	10.6	8.5	12.7	
54	8.7	4.9	7.3	
68	6.2	4.1	6.1	

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#23

Nitrobenzene-d5

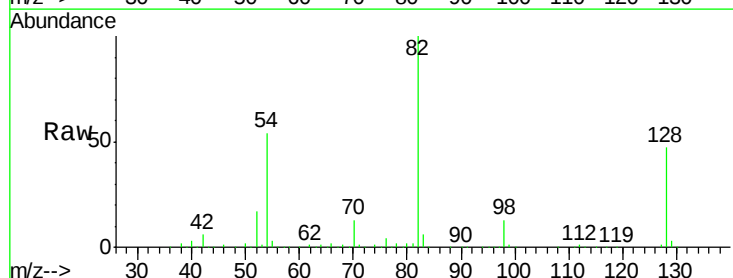
Concen: 59.600 ng

RT: 7.22 min Scan# 872

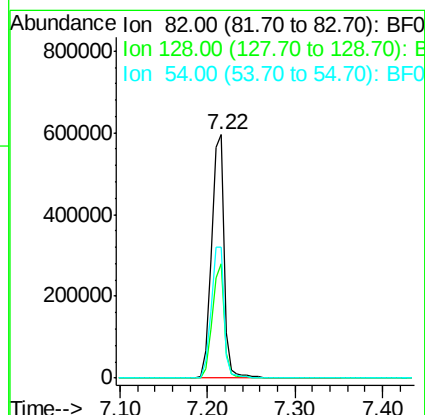
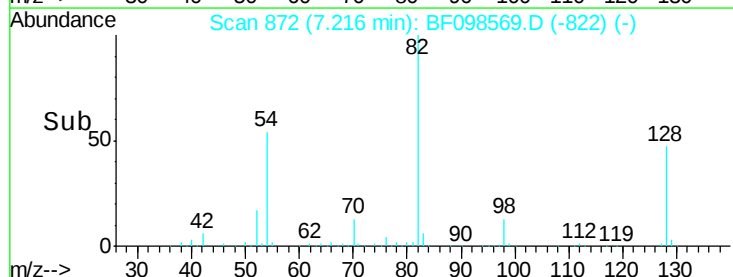
Delta R.T. -0.01 min

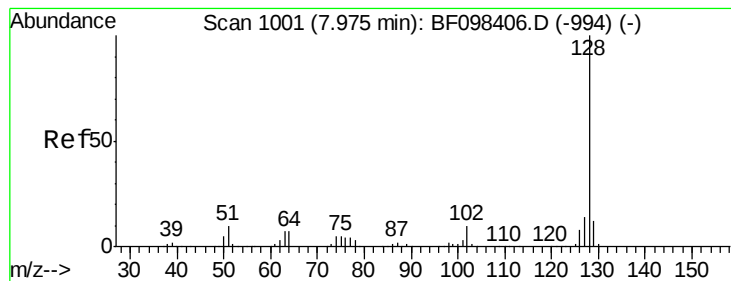
Lab File: BF098569.D

Acq: 15 Sep 2017 15:06



Tgt Ion	Ratio	Resp	Lower	Upper
82	100	601606		
128	46.7	34.0	51.0	
54	53.7	42.2	63.2	





#31

Naphthalene

Concen: 5.747 ng

RT: 7.95 min Scan# 996

Delta R.T. -0.01 min

Lab File: BF098569.D

Acq: 15 Sep 2017 15:06

Instrument :

BNA_F

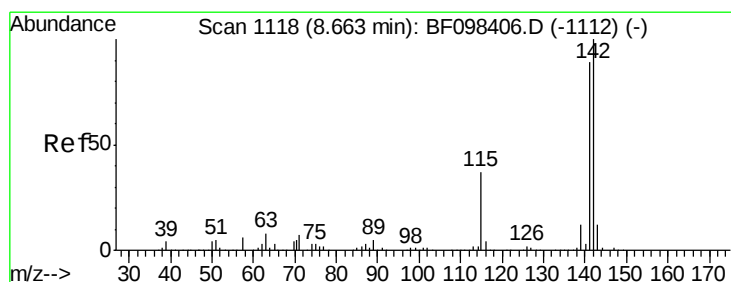
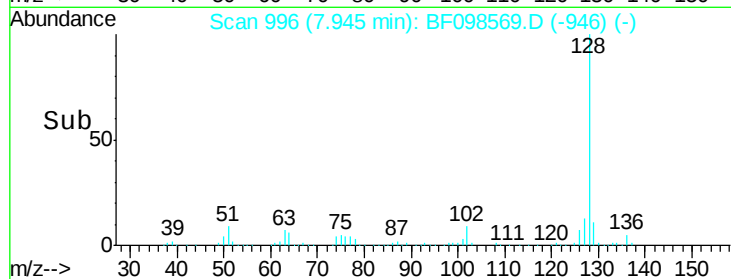
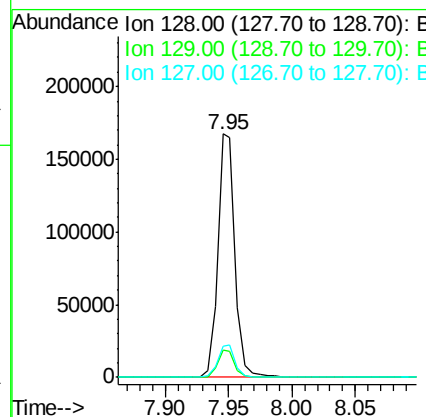
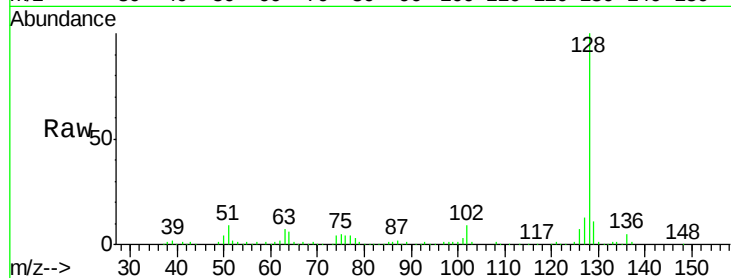
ClientSampleId :

RL-4-12.25-24.5

Tgt Ion:	128	Resp:	159864
Ion Ratio	Lower	Upper	
128	100		
129	11.0	9.0	13.6
127	12.6	10.8	16.2

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#37

2-Methylnaphthalene

Concen: 3.277 ng

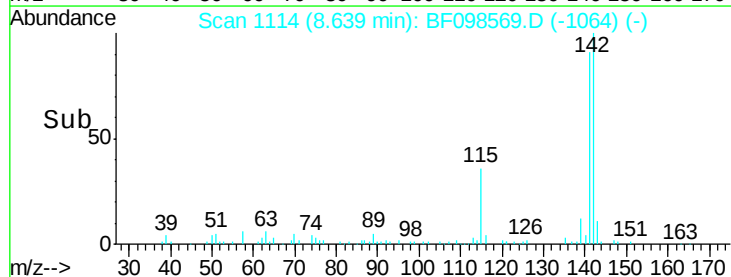
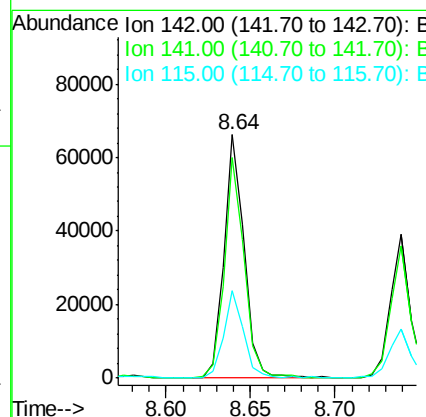
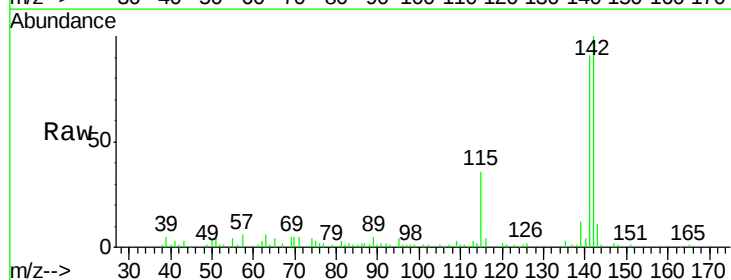
RT: 8.64 min Scan# 1114

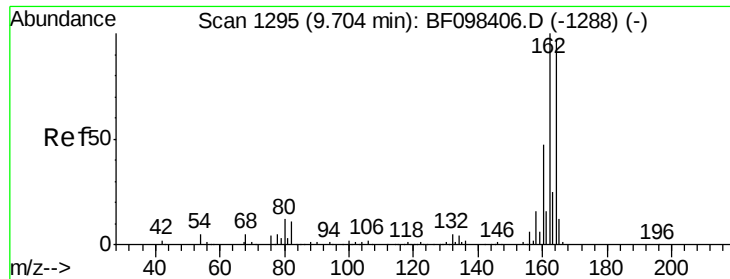
Delta R.T. -0.01 min

Lab File: BF098569.D

Acq: 15 Sep 2017 15:06

Tgt Ion:	142	Resp:	55224
Ion Ratio	Lower	Upper	
142	100		
141	90.8	71.3	106.9
115	35.8	27.1	40.7





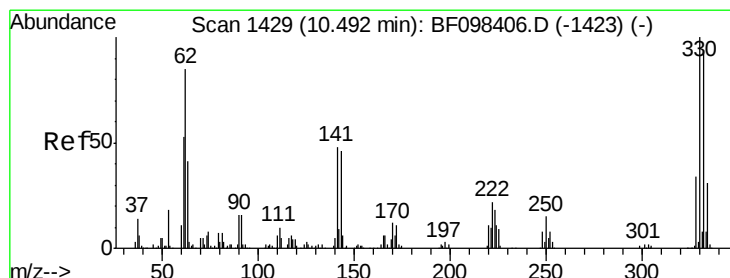
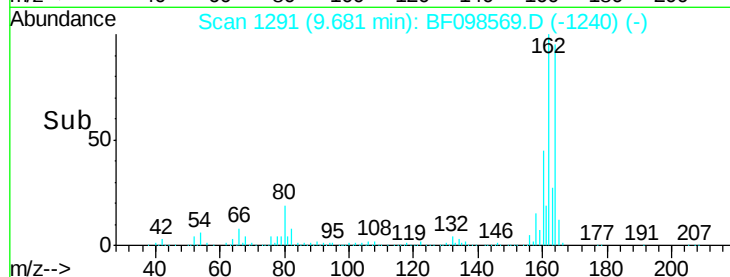
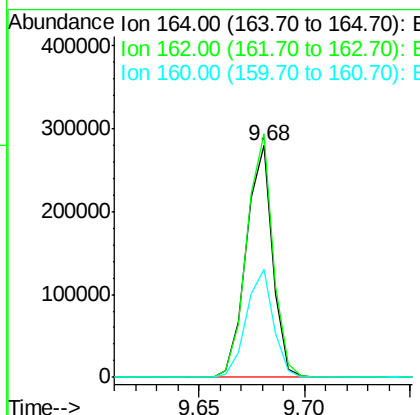
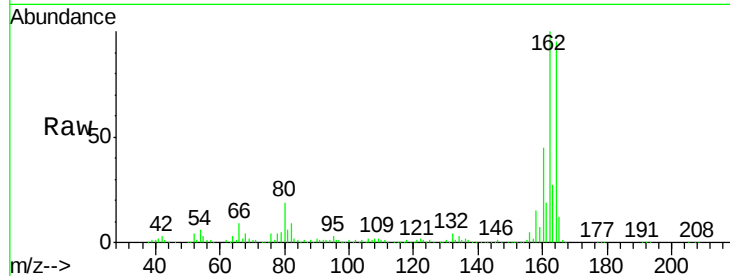
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.68 min Scan# 1291
Delta R.T. 0.00 min
Lab File: BF098569.D
Acq: 15 Sep 2017 15:06

Instrument :
BNA_F
ClientSampleId :
RL-4-12.25-24.5

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	241000		
162	105.1	82.6	123.8	
160	46.8	36.2	54.2	

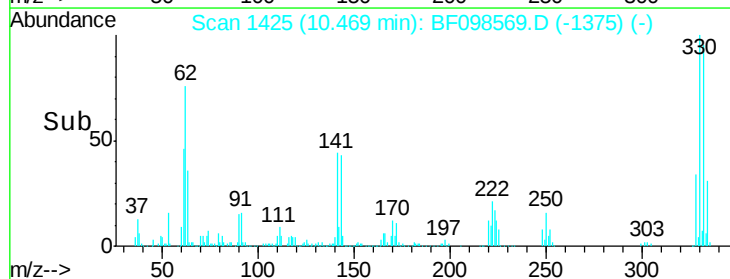
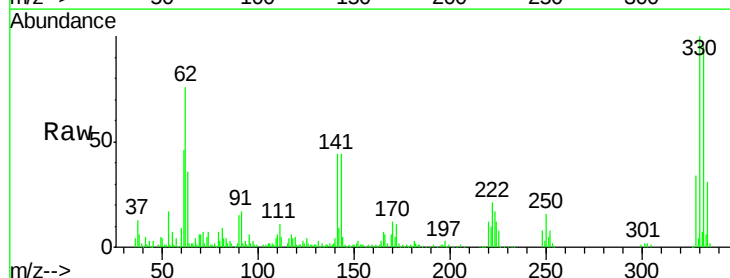
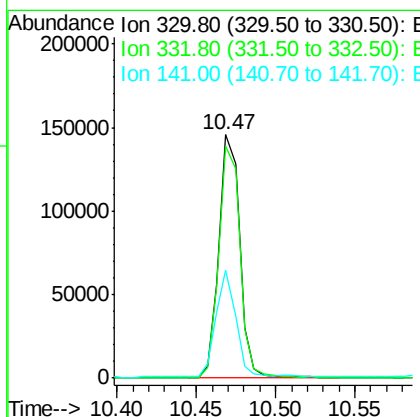
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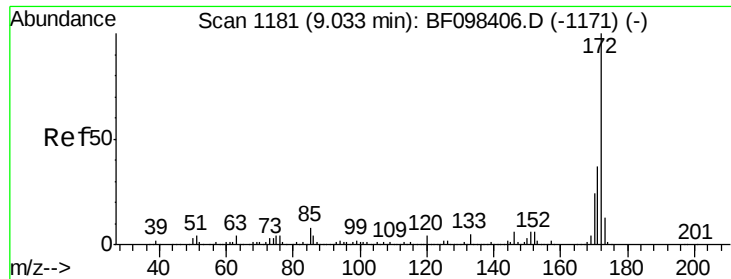
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#41
2,4,6-Tribromophenol
Concen: 83.487 ng
RT: 10.47 min Scan# 1425
Delta R.T. -0.01 min
Lab File: BF098569.D
Acq: 15 Sep 2017 15:06

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	134287		
332	97.1	76.6	115.0	
141	43.6	31.4	47.2	





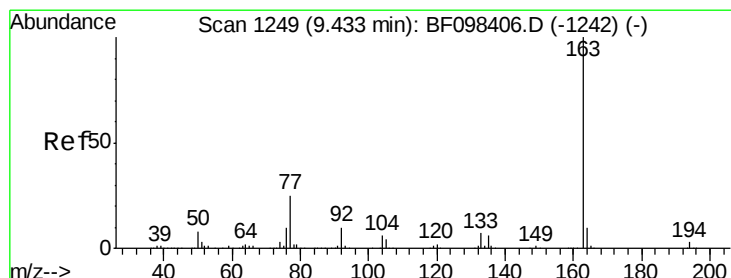
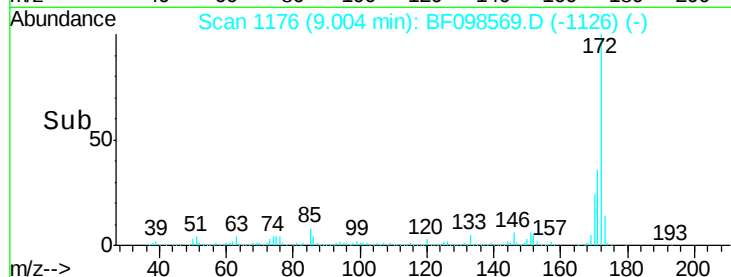
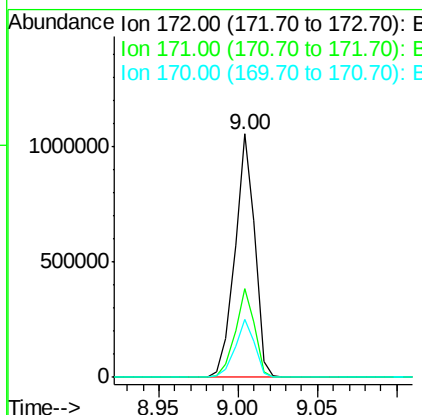
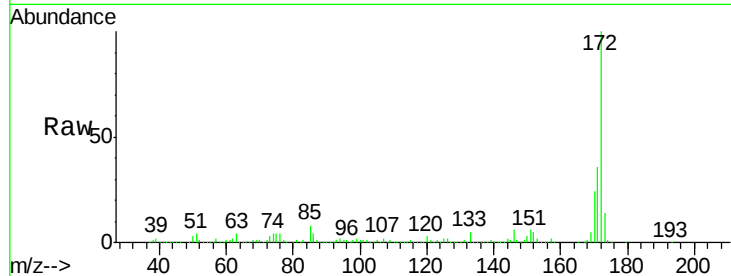
#44
2-Fluorobiphenyl
Concen: 64.201 ng
RT: 9.00 min Scan# 1176
Delta R.T. -0.01 min
Lab File: BF098569.D
Acq: 15 Sep 2017 15:06

Instrument :
BNA_F
ClientSampleId :
RL-4-12.25-24.5

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	912878		
171	36.2		29.6	44.4
170	23.6		19.8	29.8

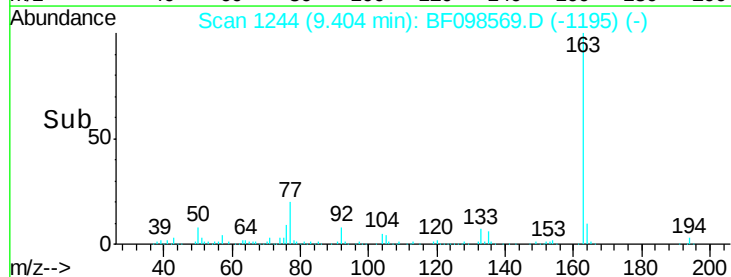
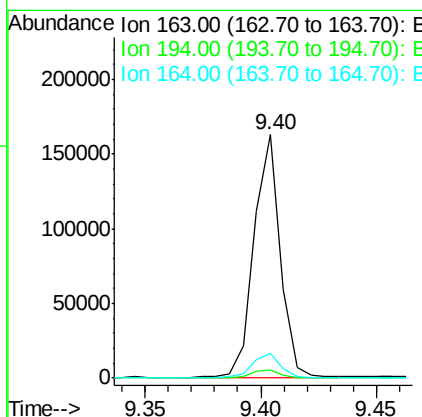
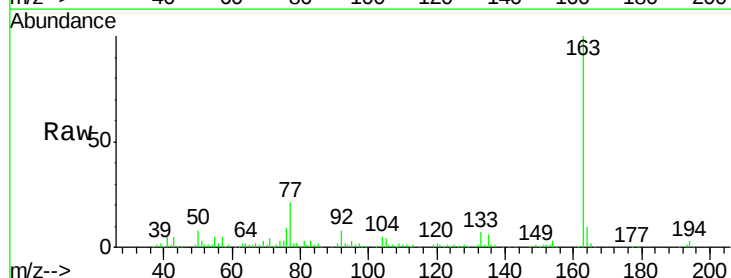
Manual Integrations
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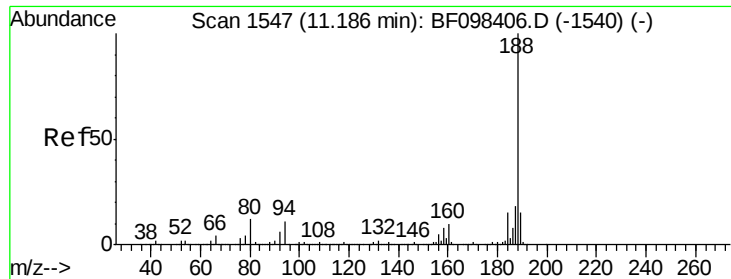
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#49
Dimethylphthalate
Concen: 6.891 ng
RT: 9.40 min Scan# 1244
Delta R.T. -0.01 min
Lab File: BF098569.D
Acq: 15 Sep 2017 15:06

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	128550		
194	3.4		2.6	4.0
164	9.9		8.4	12.6





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.16 min Scan# 1543

Delta R.T. -0.01 min

Lab File: BF098569.D

Acq: 15 Sep 2017 15:06

Instrument :

BNA_F

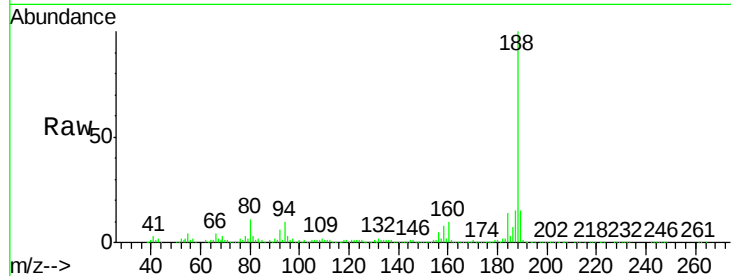
ClientSampleId :

RL-4-12.25-24.5

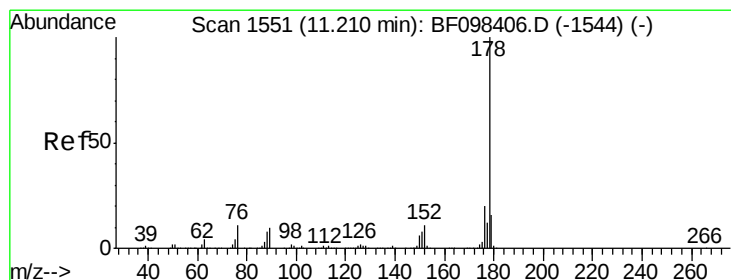
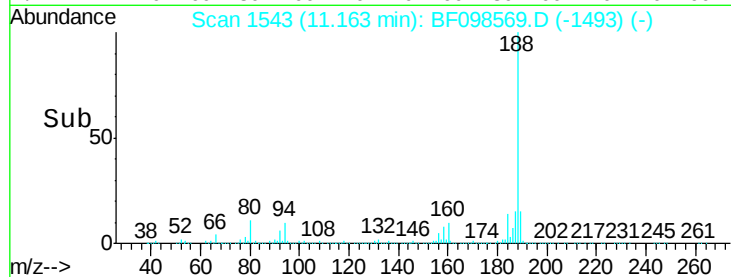
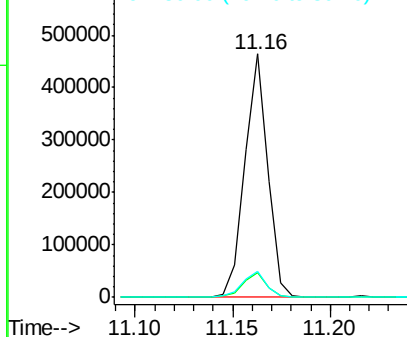
Tgt Ion:	188	Resp:	378149
Ion Ratio	Lower	Upper	
188	100		
94	10.0	9.4	14.2
80	10.8	10.2	15.2

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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: 5.478 ng

RT: 11.19 min Scan# 1547

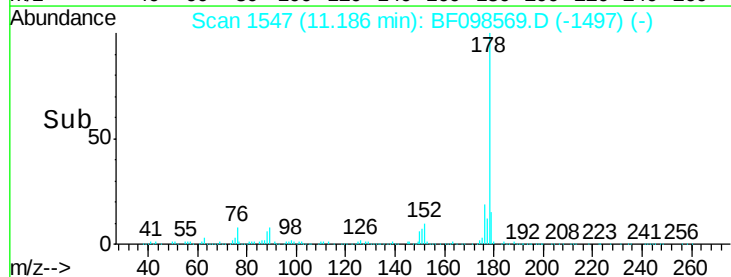
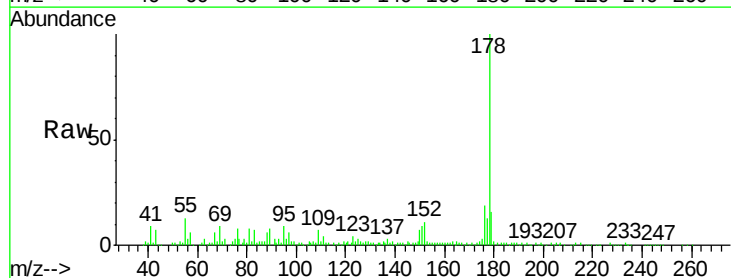
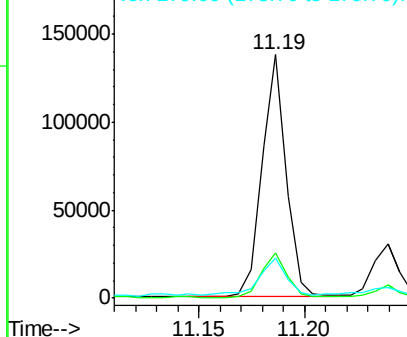
Delta R.T. -0.01 min

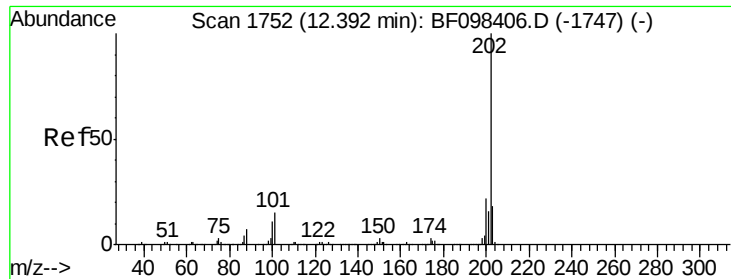
Lab File: BF098569.D

Acq: 15 Sep 2017 15:06

Tgt Ion:	178	Resp:	109820
Ion Ratio	Lower	Upper	
178	100		
176	18.8	16.2	24.4
179	16.3	12.6	19.0

Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 6.141 ng

RT: 12.37 min Scan# 1749

Delta R.T. 0.00 min

Lab File: BF098569.D

Acq: 15 Sep 2017 15:06

Instrument :

BNA_F

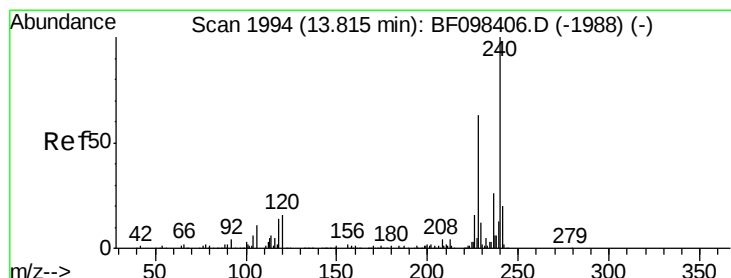
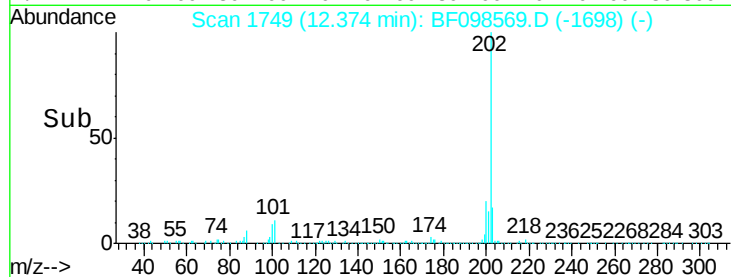
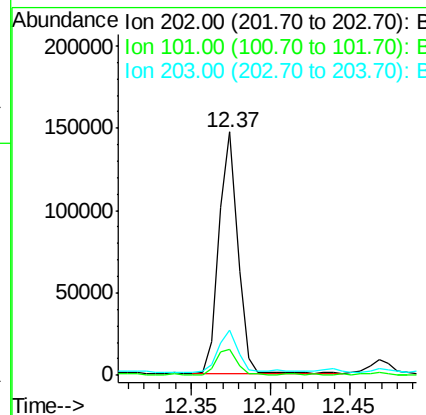
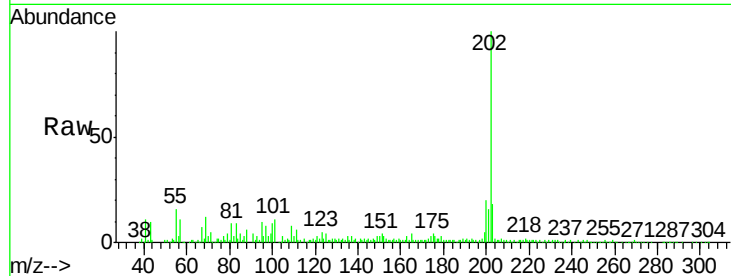
ClientSampleId :

RL-4-12.25-24.5

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	10.8	0.0	33.2
203	18.3	0.0	38.1

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#75

Chrysene-d12

Concen: 20.000 ng

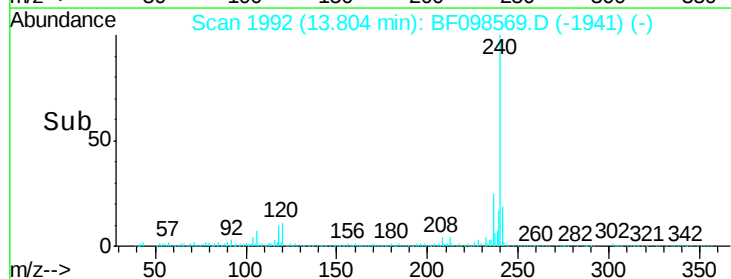
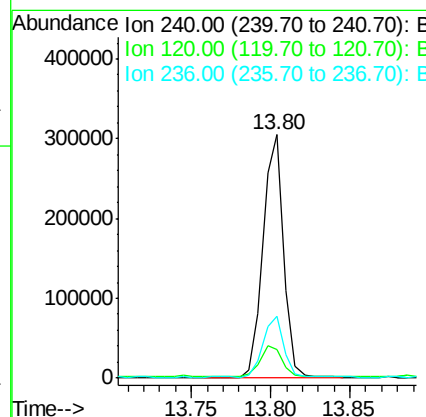
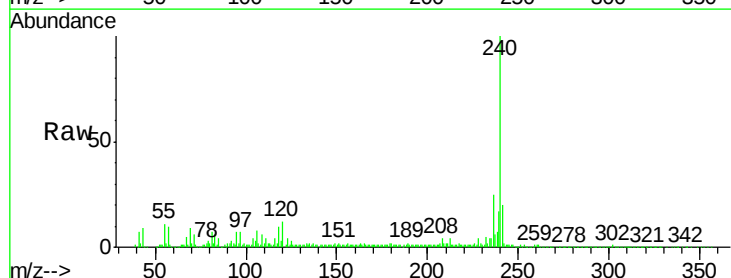
RT: 13.80 min Scan# 1992

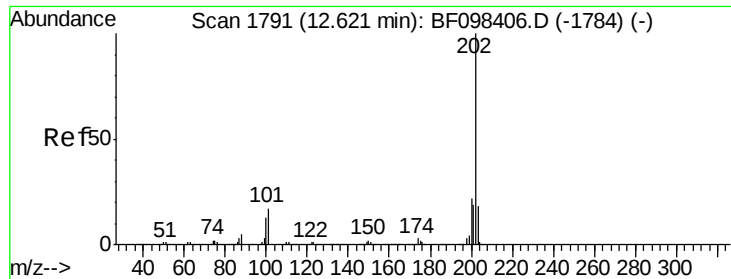
Delta R.T. 0.00 min

Lab File: BF098569.D

Acq: 15 Sep 2017 15:06

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	11.9	5.8	8.8#
236	25.5	20.5	30.7





#77

Pyrene

Concen: 5.028 ng

RT: 12.60 min Scan# 1788

Delta R.T. 0.00 min

Lab File: BF098569.D

Acq: 15 Sep 2017 15:06

Instrument :

BNA_F

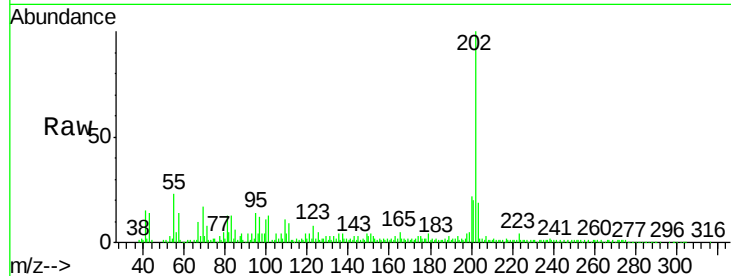
ClientSampleId :

RL-4-12.25-24.5

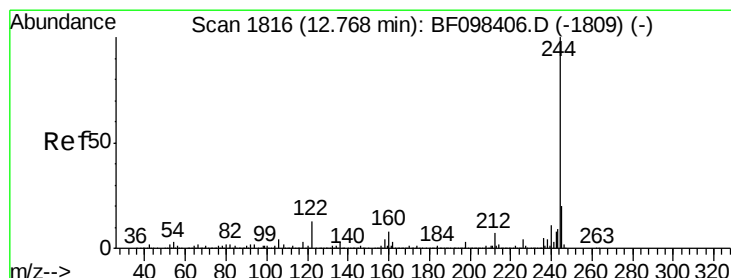
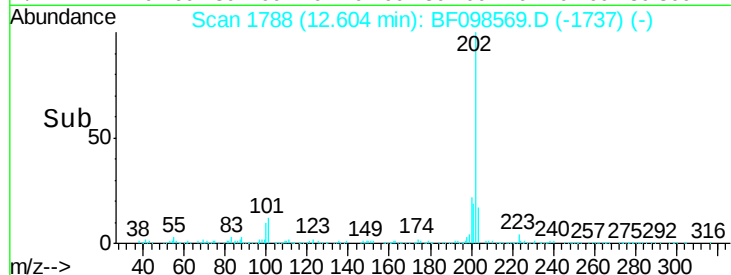
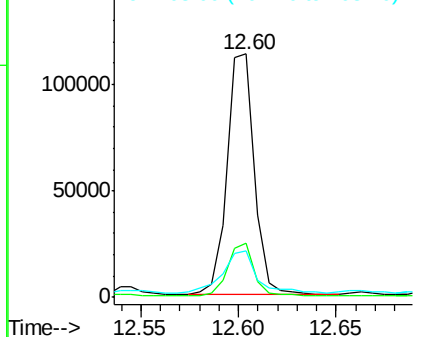
Tgt Ion:	202	Resp:	109267
Ion Ratio		Lower	Upper
202	100		
200	22.5	17.6	26.4
203	19.0	14.4	21.6

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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: 43.403 ng

RT: 12.75 min Scan# 1812

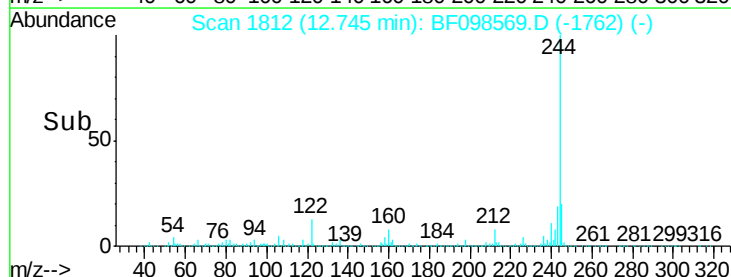
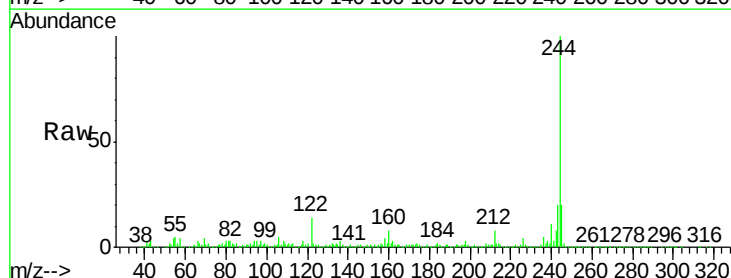
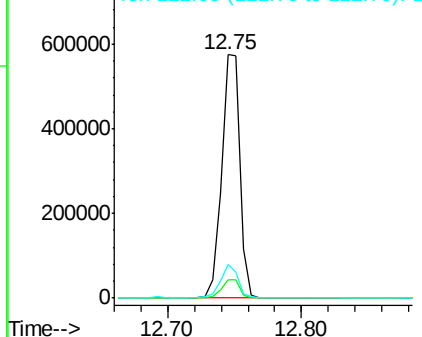
Delta R.T. -0.01 min

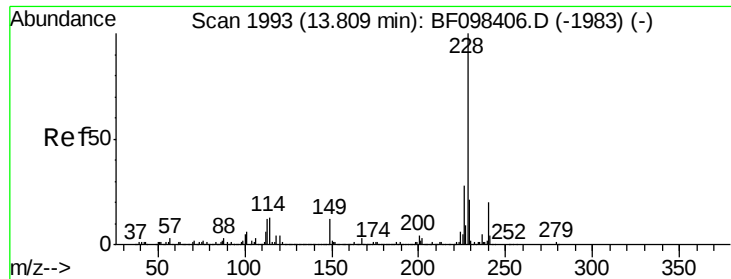
Lab File: BF098569.D

Acq: 15 Sep 2017 15:06

Tgt Ion:	244	Resp:	553893
Ion Ratio		Lower	Upper
244	100		
212	7.7	6.0	9.0
122	13.7	10.3	15.5

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





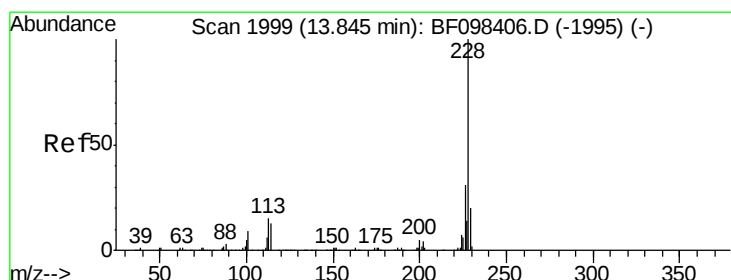
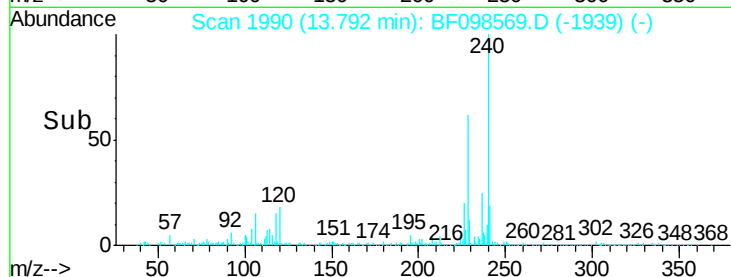
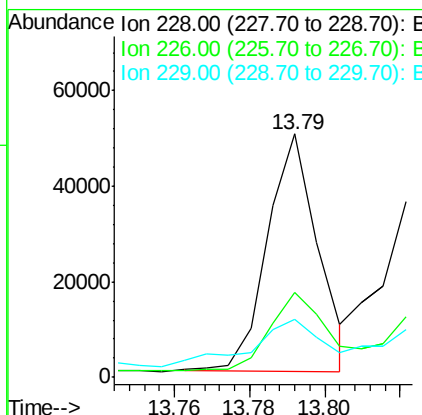
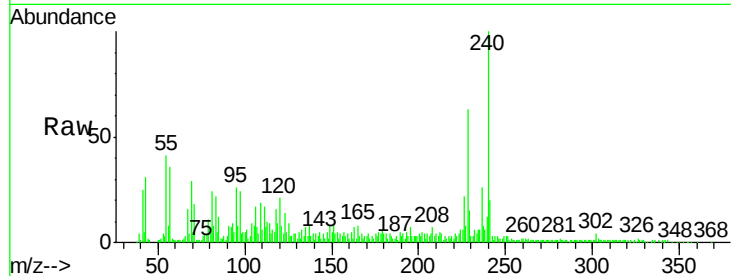
#80
Benzo(a)anthracene
Concen: 2.891 ng m
RT: 13.79 min Scan# 1990
Delta R.T. 0.00 min
Lab File: BF098569.D
Acq: 15 Sep 2017 15:06

Instrument :
BNA_F
ClientSampled :
RL-4-12.25-24.5

Tgt Ion	Ratio	Lower	Upper
228	100		
226	34.6	22.6	33.8#
229	23.6	16.3	24.5

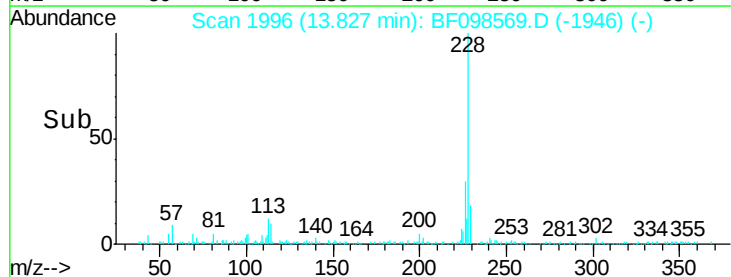
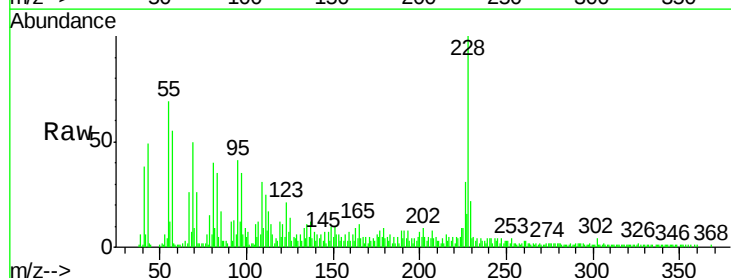
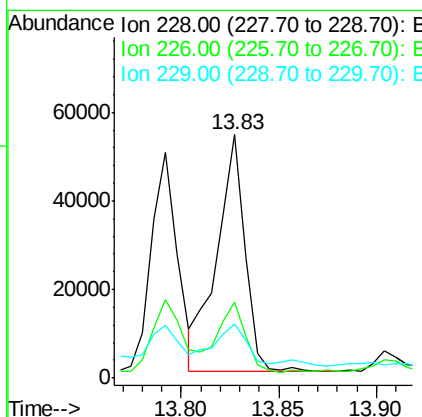
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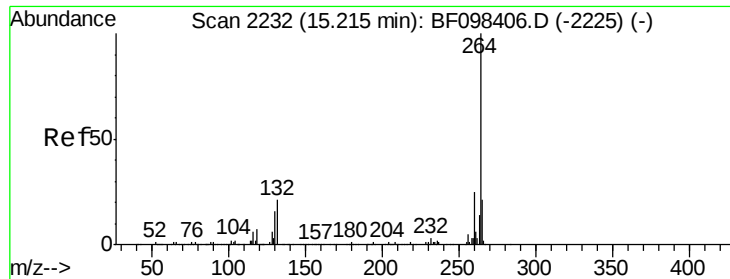
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#82
Chrysene
Concen: 3.310 ng
RT: 13.83 min Scan# 1996
Delta R.T. -0.01 min
Lab File: BF098569.D
Acq: 15 Sep 2017 15:06

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.9	37.3
229	22.3	15.8	23.6





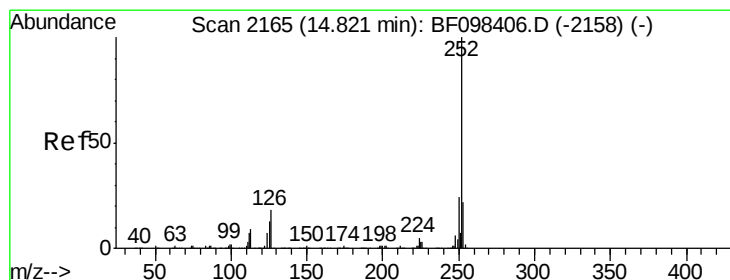
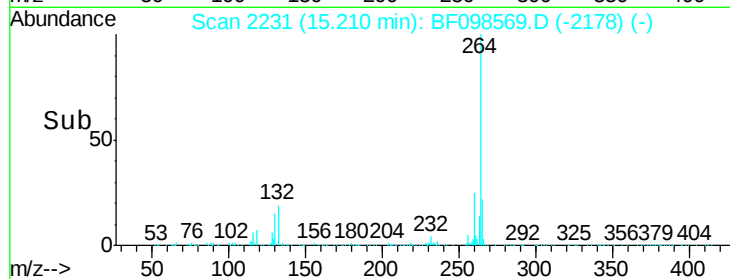
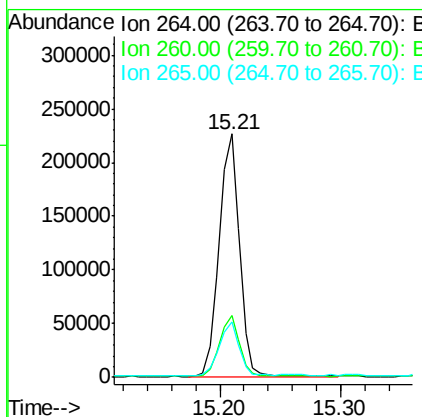
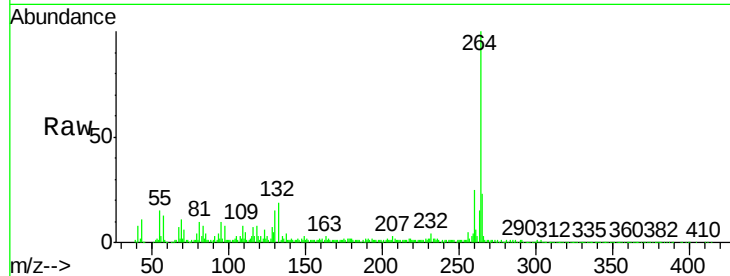
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.21 min Scan# 2231
Delta R.T. 0.01 min
Lab File: BF098569.D
Acq: 15 Sep 2017 15:06

Instrument :
BNA_F
ClientSampleId :
RL-4-12.25-24.5

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	260752		
260	25.3	19.5	29.3	
265	22.6	17.2	25.8	

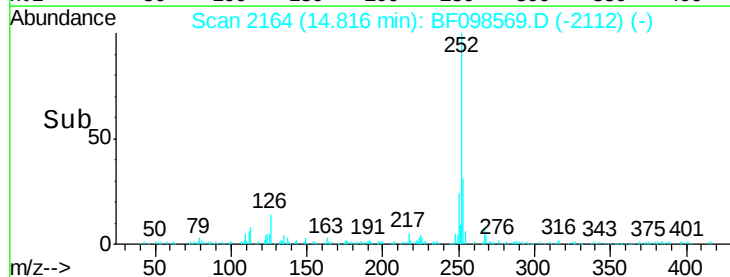
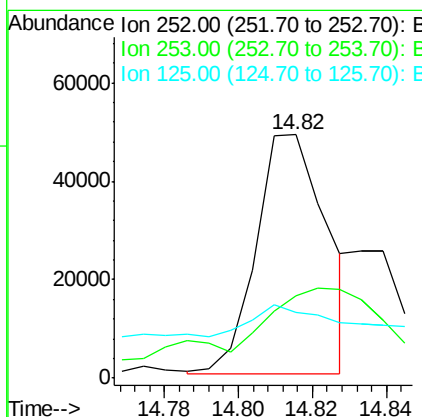
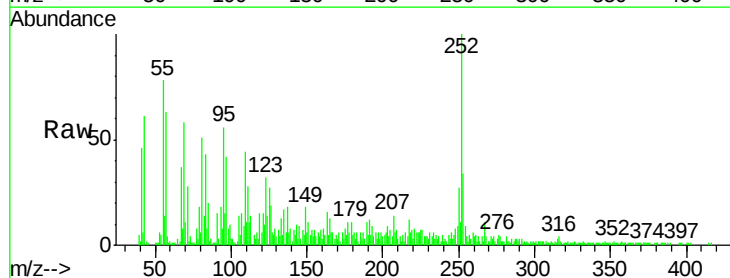
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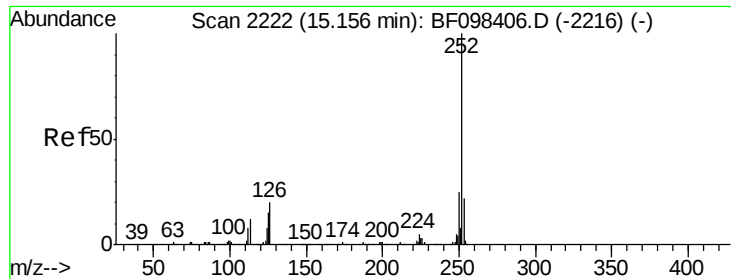
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#87
Benzo(b)fluoranthene
Concen: 3.954 ng m
RT: 14.82 min Scan# 2164
Delta R.T. 0.01 min
Lab File: BF098569.D
Acq: 15 Sep 2017 15:06

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	64822		
253	33.9	18.1	27.1#	
125	26.8	9.8	14.8#	





#89

Benzo(a)pyrene

Concen: 3.054 ng

RT: 15.15 min Scan# 2221

Delta R.T. 0.01 min

Lab File: BF098569.D

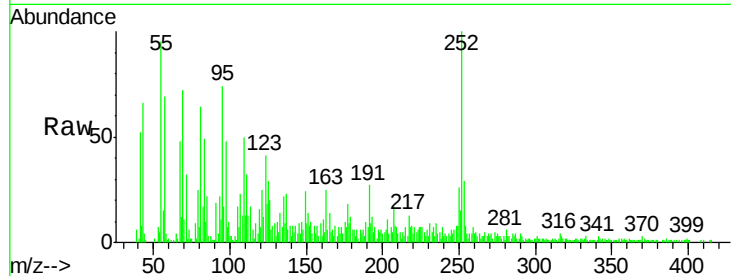
Acq: 15 Sep 2017 15:06

Instrument :

BNA_F

ClientSampled :

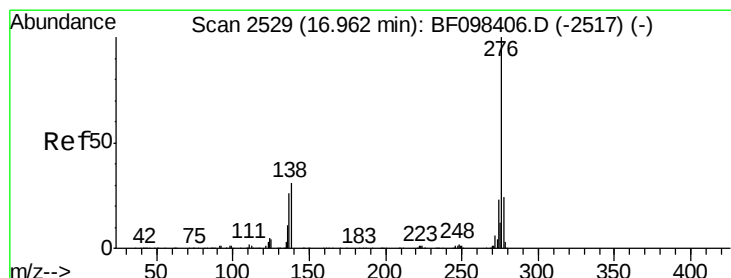
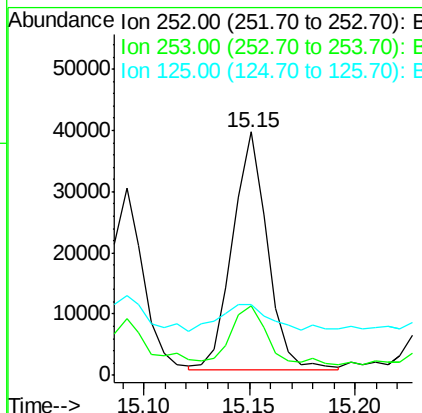
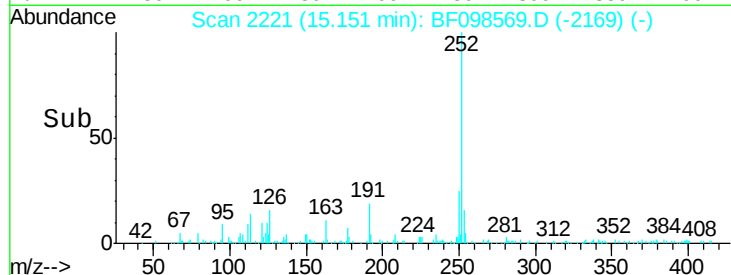
RL-4-12.25-24.5



Tgt Ion:	252	Resp:	44604
Ion Ratio	Lower	Upper	
252	100		
253	28.6	17.5	26.3#
125	29.1	11.0	16.4#

Manual Integrations
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#91

Benzo(g,h,i)perylene

Concen: 2.084 ng

RT: 16.95 min Scan# 2527

Delta R.T. 0.01 min

Lab File: BF098569.D

Acq: 15 Sep 2017 15:06

Tgt Ion:	276	Resp:	22267
Ion Ratio	Lower	Upper	
276	100		
277	26.2	18.6	28.0
138	30.3	25.4	38.0

