

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM050415\
 Data File : BM001191.D
 Acq On : 04 May 2015 19:36
 Operator : TP/IZ
 Sample : PB83178BS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PB83178BS

Manual Integrations
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Quant Time: May 05 04:09:22 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIMPAH-BM050115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 05 03:49:45 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.53	152	16199	5.00	ng	0.00
6) Naphthalene-d8	10.31	136	68122	5.00	ng	0.00
12) Acenaphthene-d10	14.20	164	39871	5.00	ng	0.00
18) Phenanthrene-d10	16.94	188	102198	5.00	ng	0.00
24) Chrysene-d12	21.15	240	89765	5.00	ng	0.00
30) Perylene-d12	23.29	264	73813	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.11	112	37834	12.01	ng	0.00
5) Phenol-d6	6.71	99	53409	13.76	ng	0.00
7) Nitrobenzene-d5	8.68	82	35263	9.14	ng	-0.01
13) 2,4,6-Tribromophenol	15.69	330	27714	14.11	ng	0.00
14) 2-Fluorobiphenyl	12.80	172	106404	8.07	ng	0.00
26) Terphenyl-d14	19.59	244	103421	8.36	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.01	88	9982	7.43	ng	# 77
3) n-Nitrosodimethylamine	3.32	42	16125	8.13	ng	# 98
8) Nitrobenzene	8.72	77	39242	7.72	ng	93
9) Naphthalene	10.36	128	114811	7.67	ng	99
10) Hexachlorobutadiene	10.65	225	21532	7.46	ng	100
11) 2-Methylnaphthalene	11.98	142	82910	8.07	ng	92
15) Acenaphthylene	13.89	152	150527	8.64	ng	# 100
16) Acenaphthene	14.24	154	106311	8.83	ng	89
17) Fluorene	15.24	166	128653	9.21	ng	98
19) Hexachlorobenzene	16.26	284	44912	8.16	ng	# 95
20) Pentachlorophenol	16.61	266	49196	20.04	ng	93
21) Phenanthrene	16.98	178	211109	8.02	ng	99
22) Anthracene	17.06	178	187842m	8.64	ng	
23) Fluoranthene	19.01	202	231542	8.69	ng	100
25) Pyrene	19.38	202	246097	8.77	ng	99
27) Benzo(a)anthracene	21.13	228	218092	8.62	ng	98
28) Chrysene	21.18	228	205188	8.26	ng	99
29) Indeno(1,2,3-cd)pyrene	25.43	276	169616	7.49	ng	99
31) Benzo(b)fluoranthene	22.65	252	191693	8.43	ng	94
32) Benzo(k)fluoranthene	22.69	252	194834	9.15	ng	94
33) Benzo(a)pyrene	23.20	252	178313	9.30	ng	99
34) Dibenzo(a,h)anthracene	25.45	278	136070	8.09	ng	98
35) Benzo(g,h,i)perylene	26.09	276	137475	7.75	ng	99

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

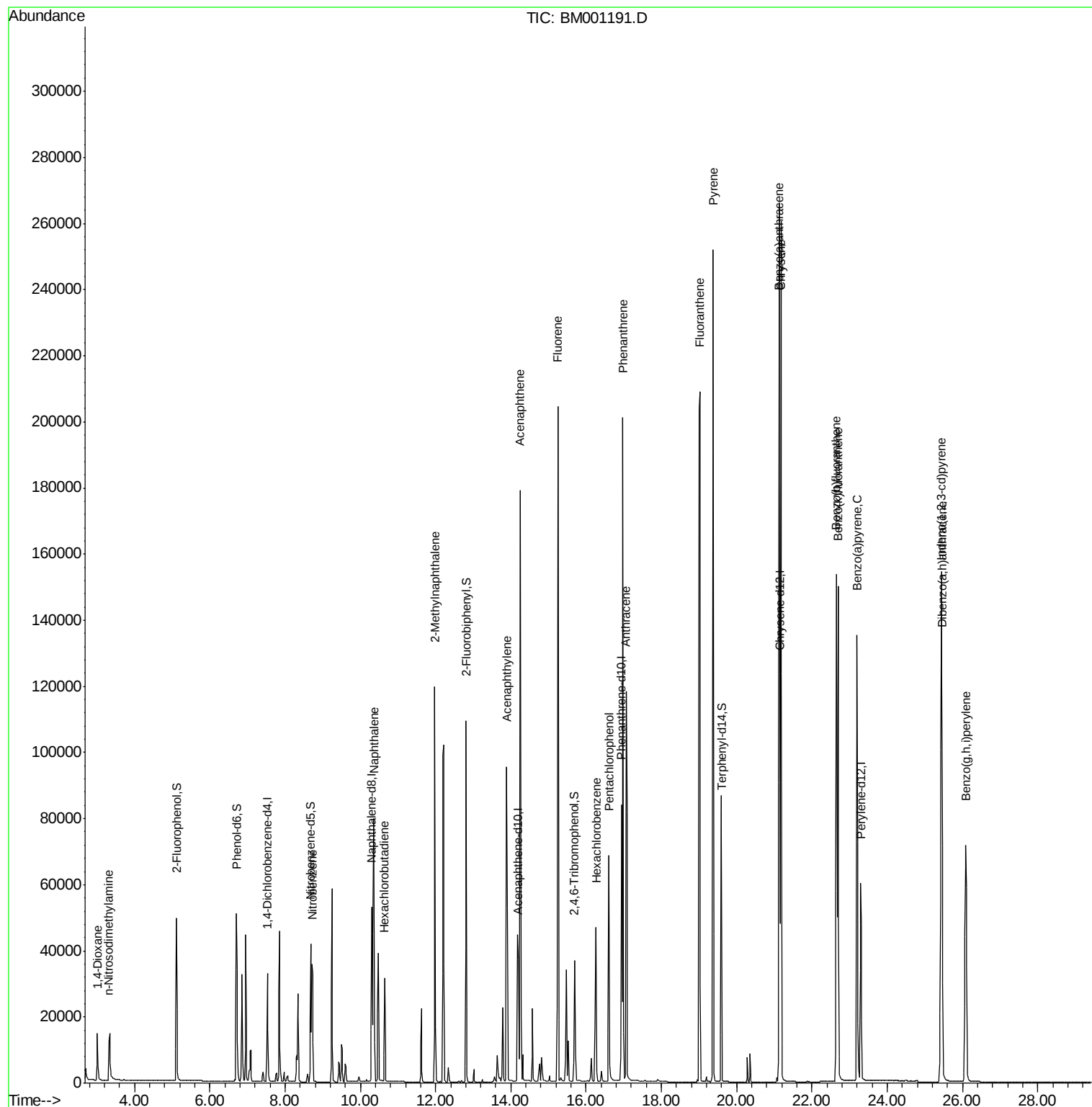
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM050415\
Data File : BM001191.D
Acq On : 04 May 2015 19:36
Operator : TP/IZ
Sample : PB83178BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

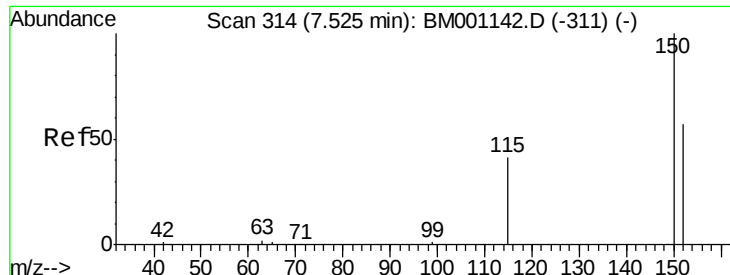
Instrument :
BNA_M
ClientSampleId :
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Quant Time: May 05 04:09:22 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIMPAH-BM050115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 05 03:49:45 2015
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.53 min Scan# 314

Delta R.T. 0.00 min

Lab File: BM001191.D

Acq: 04 May 2015 19:36

Instrument :

BNA_M

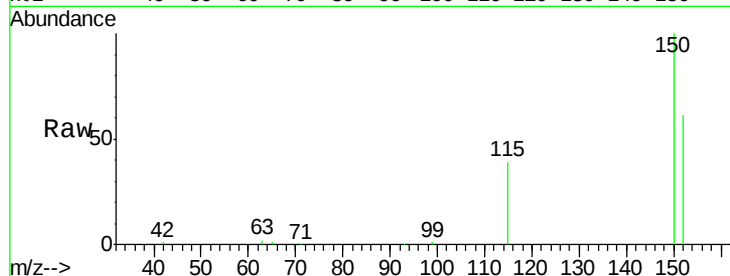
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PB83178BS

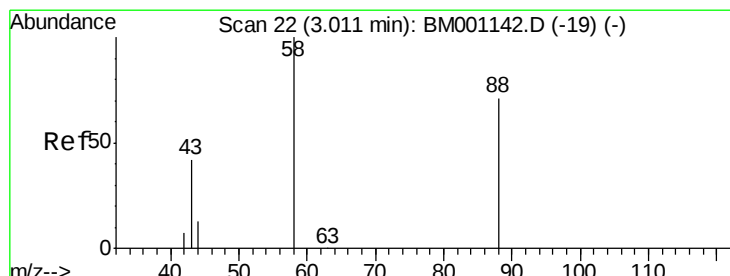
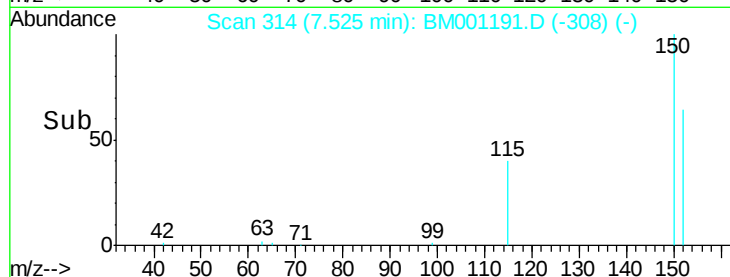
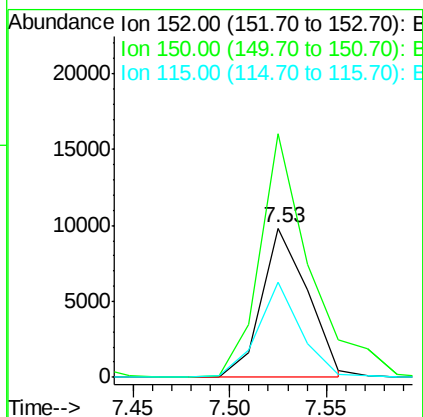
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Tgt Ion:	152	Resp:	16199
Ion Ratio	Lower	Upper	
152	100		
150	163.5	140.1	210.1
115	63.7	57.8	86.6



#2

1,4-Dioxane

Concen: 7.43 ng

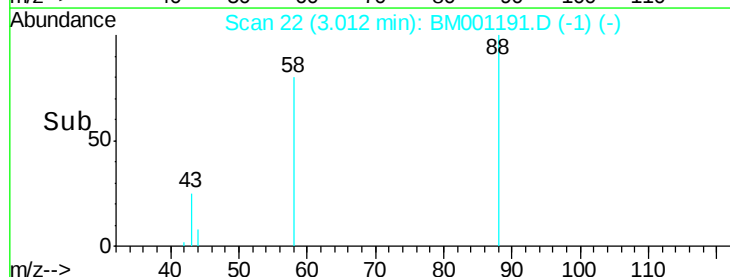
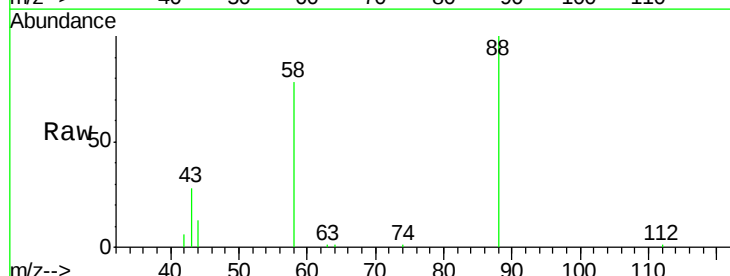
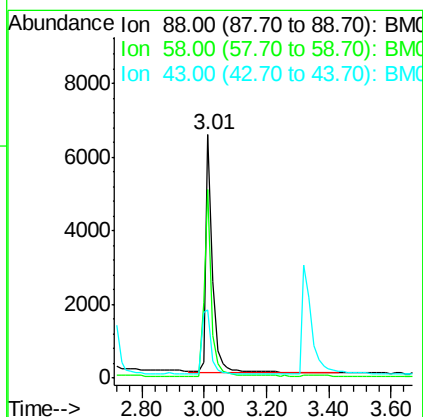
RT: 3.01 min Scan# 22

Delta R.T. 0.00 min

Lab File: BM001191.D

Acq: 04 May 2015 19:36

Tgt Ion:	88	Resp:	9982
Ion Ratio	Lower	Upper	
88	100		
58	82.1	48.2	72.2#
43	38.1	24.8	37.2#





#3

n-Nitrosodimethylamine

Concen: 8.13 ng

RT: 3.32 min Scan# 42

Delta R.T. -0.02 min

Lab File: BM001191.D

Acq: 04 May 2015 19:36

Instrument :

BNA_M

ClientSampleId :

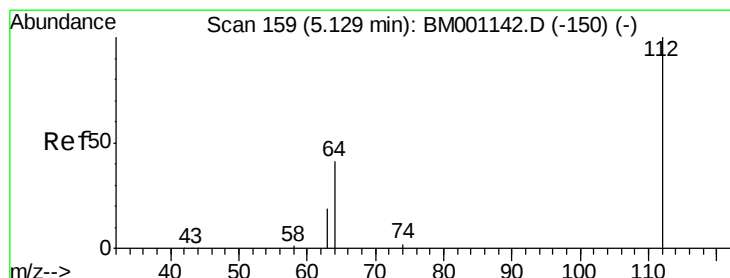
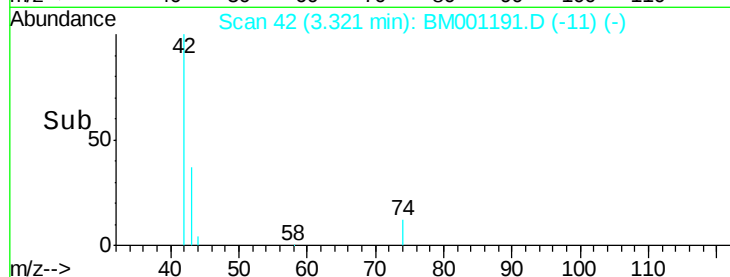
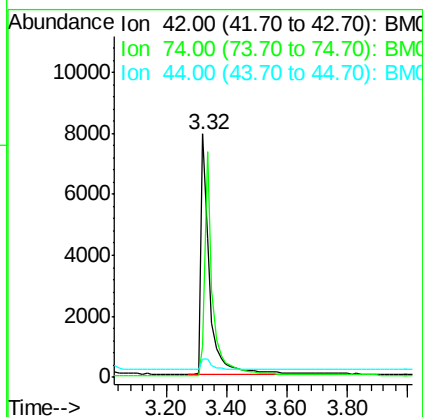
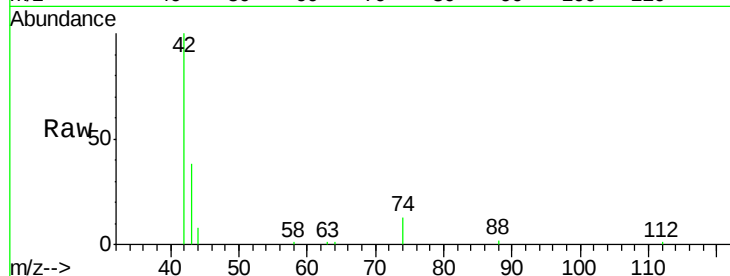
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Tgt Ion	Ratio	Lower	Upper
42	100		
74	87.8	72.0	108.0
44	6.0	3.7	5.5#



#4

2-Fluorophenol

Concen: 12.01 ng

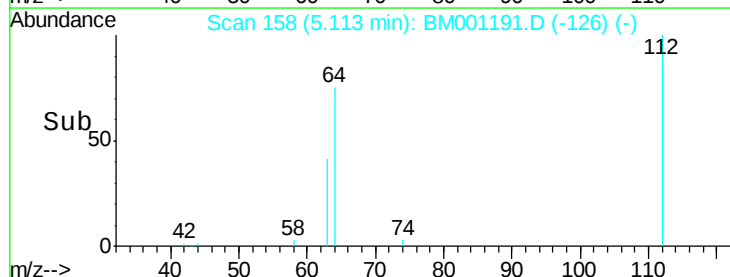
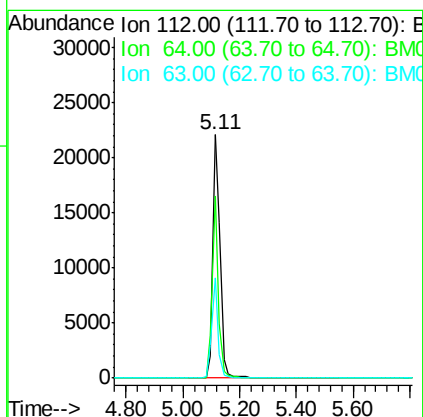
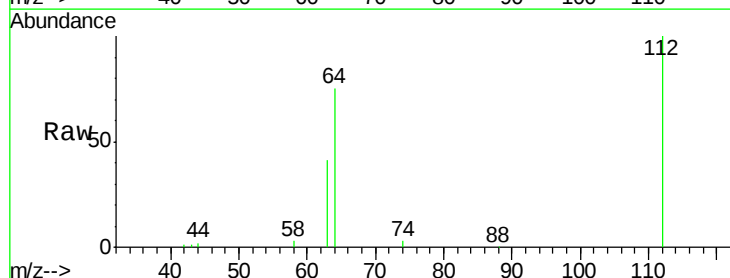
RT: 5.11 min Scan# 158

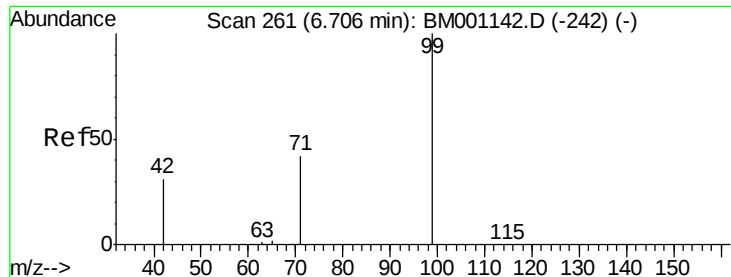
Delta R.T. 0.00 min

Lab File: BM001191.D

Acq: 04 May 2015 19:36

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.8	52.6	79.0
63	36.1	29.5	44.3





#5

Phenol-d6

Concen: 13.76 ng

RT: 6.71 min Scan# 261

Delta R.T. 0.00 min

Lab File: BM001191.D

Acq: 04 May 2015 19:36

Instrument :

BNA_M

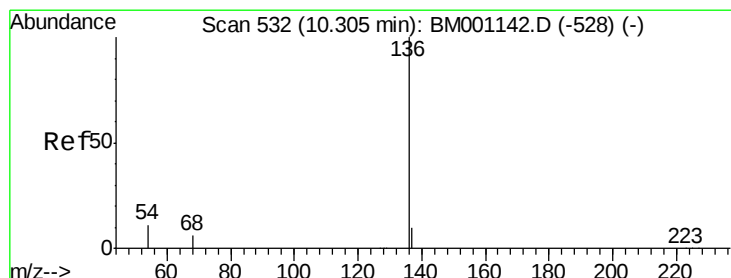
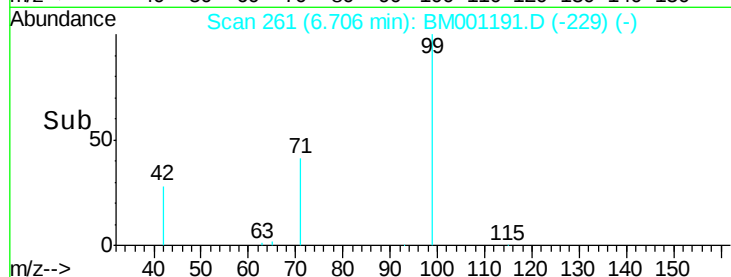
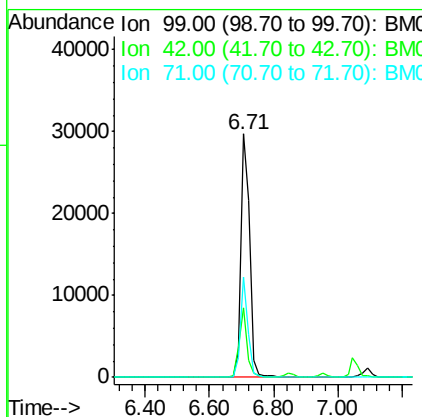
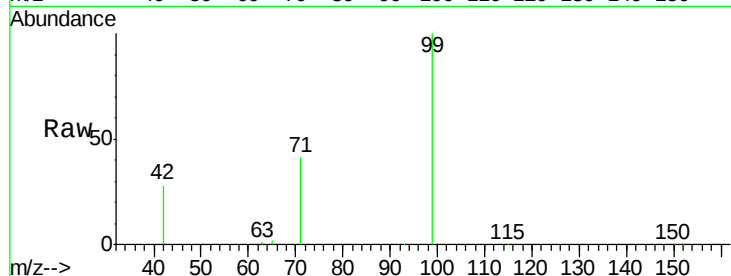
ClientSampleId :

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Tgt Ion:	99	Resp:	53409
Ion Ratio	Lower	Upper	
99	100		
42	25.3	20.9	31.3
71	35.5	28.5	42.7

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#6

Naphthalene-d8

Concen: 5.00 ng

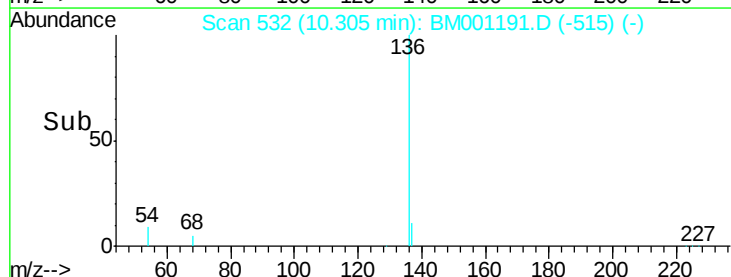
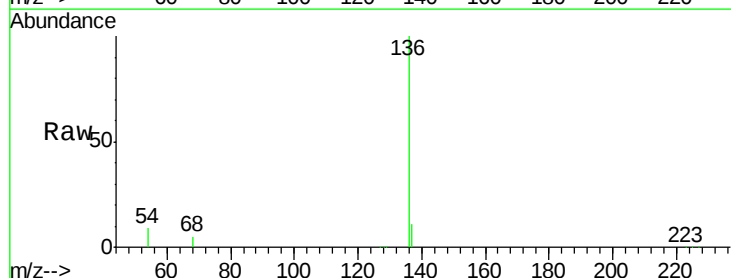
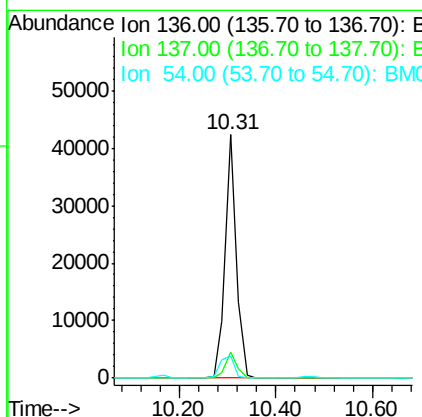
RT: 10.31 min Scan# 532

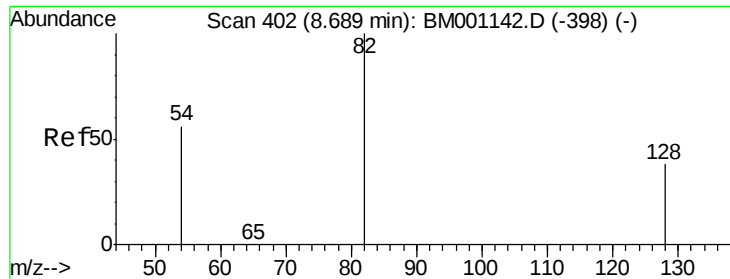
Delta R.T. 0.00 min

Lab File: BM001191.D

Acq: 04 May 2015 19:36

Tgt Ion:	136	Resp:	68122
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.2	12.4
54	8.9	9.0	13.4#





#7

Nitrobenzene-d5

Concen: 9.14 ng

RT: 8.68 min Scan# 401

Delta R.T. -0.01 min

Lab File: BM001191.D

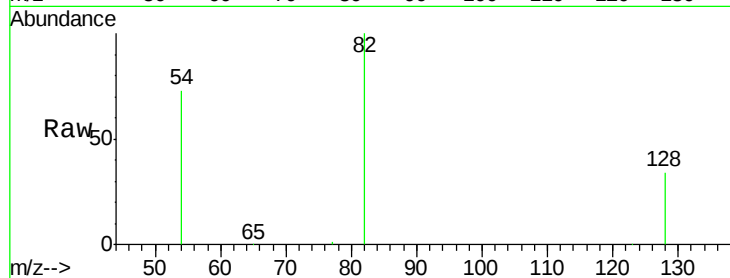
Acq: 04 May 2015 19:36

Instrument :

BNA_M

ClientSampleId :

PB83178BS



Tgt Ion: 82 Resp: 35263

Ion Ratio Lower Upper

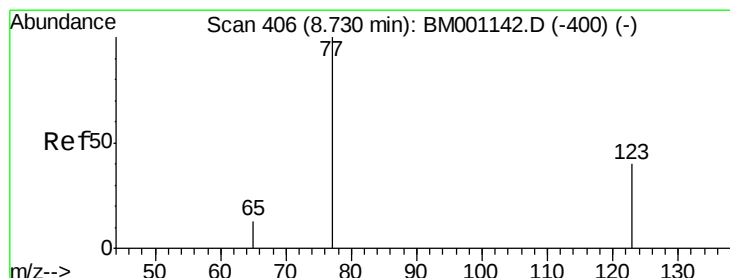
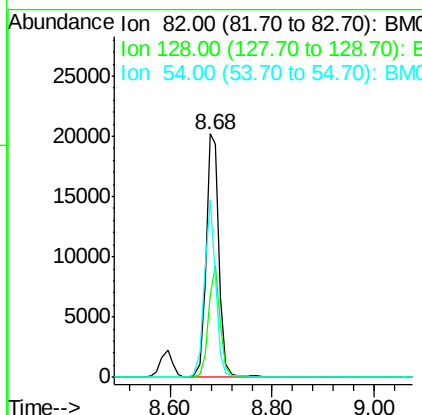
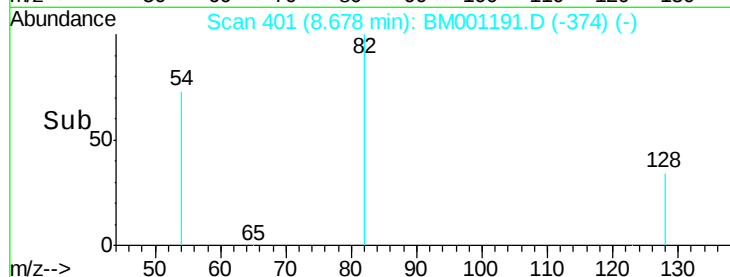
82 100

128 33.9 31.9 47.9

54 72.7 46.2 69.2#

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#8

Nitrobenzene

Concen: 7.72 ng

RT: 8.72 min Scan# 405

Delta R.T. 0.00 min

Lab File: BM001191.D

Acq: 04 May 2015 19:36

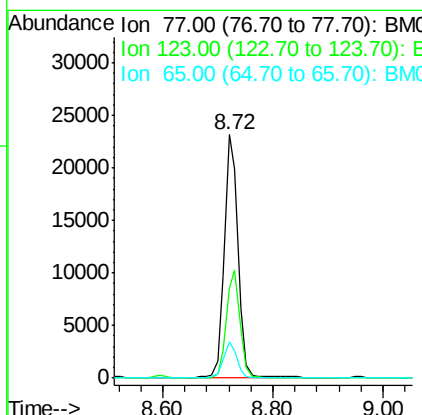
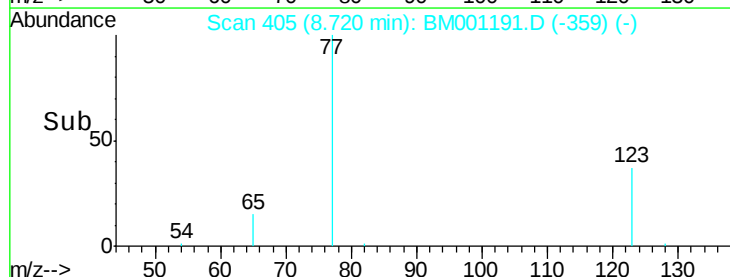
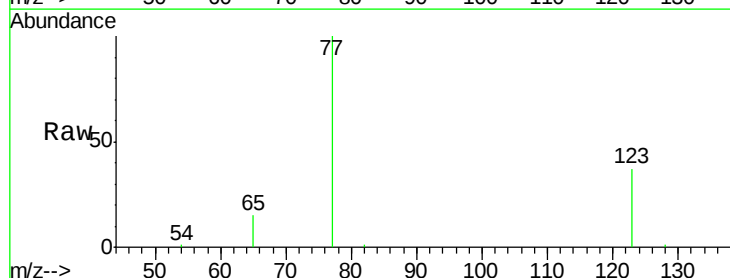
Tgt Ion: 77 Resp: 39242

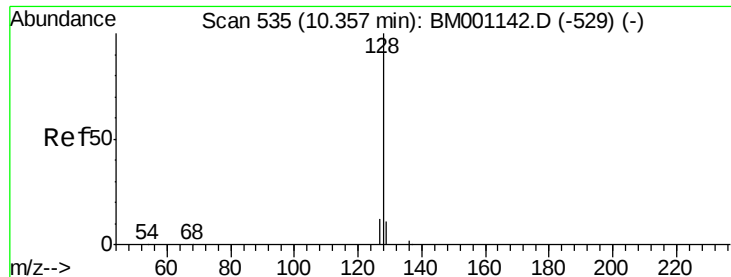
Ion Ratio Lower Upper

77 100

123 43.7 31.0 46.6

65 14.5 10.6 15.8





#9

Naphthalene

Concen: 7.67 ng

RT: 10.36 min Scan# 535

Delta R.T. 0.00 min

Lab File: BM001191.D

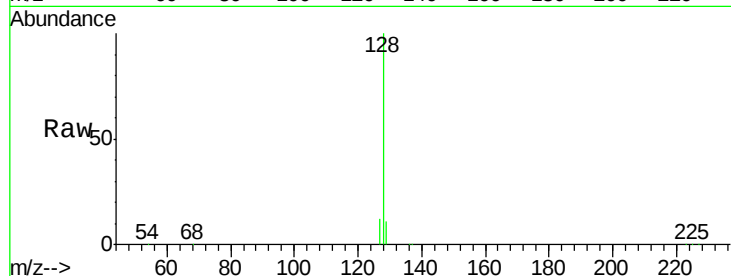
Acq: 04 May 2015 19:36

Instrument :

BNA_M

ClientSampleId :

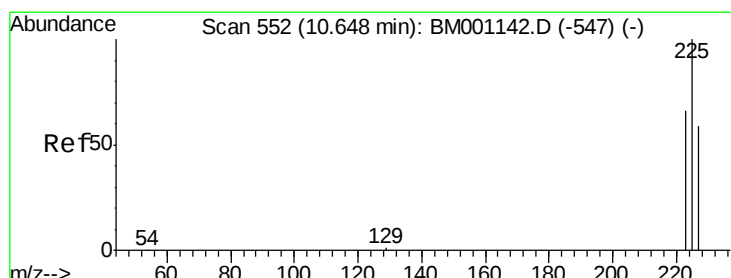
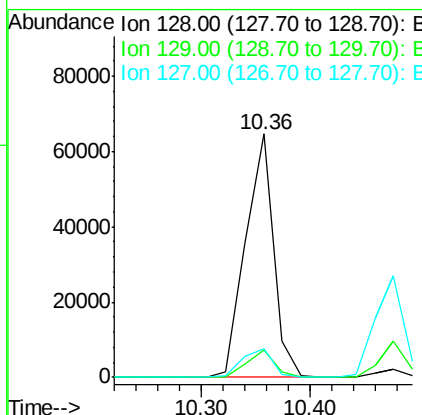
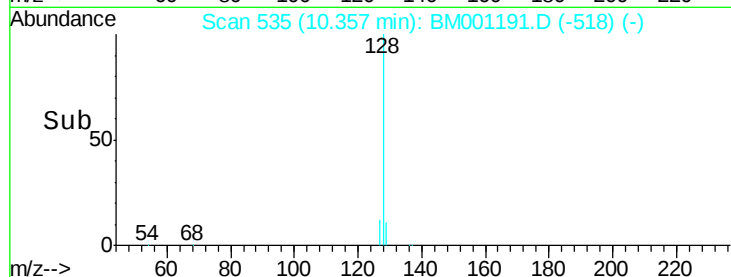
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Tgt Ion	Ratio	Resp	Lower	Upper
128	100	114811		
129	11.4	9.0	13.6	
127	11.8	10.0	15.0	

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#10

Hexachlorobutadiene

Concen: 7.46 ng

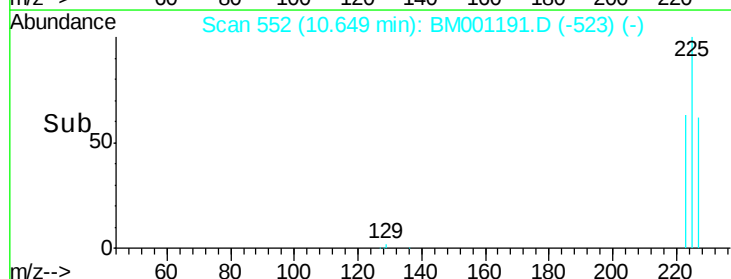
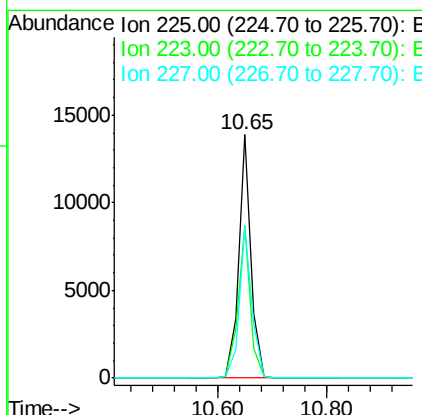
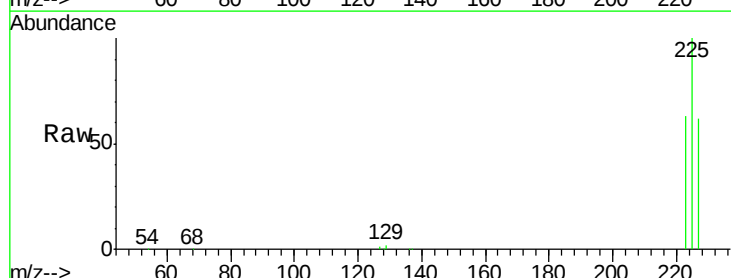
RT: 10.65 min Scan# 552

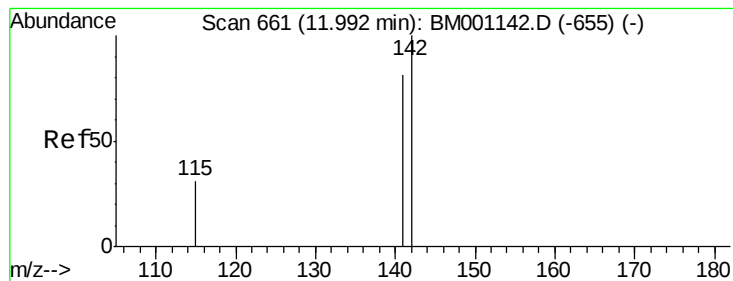
Delta R.T. 0.00 min

Lab File: BM001191.D

Acq: 04 May 2015 19:36

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	21532		
223	63.2	50.8	76.2	
227	63.4	51.0	76.4	





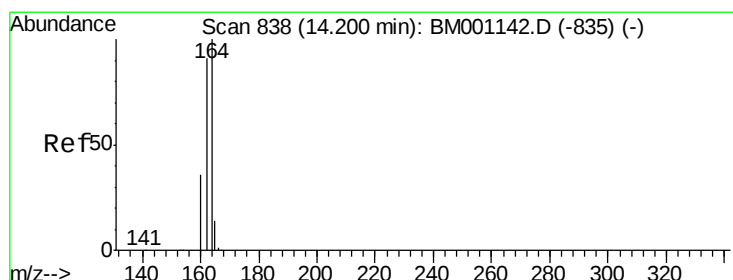
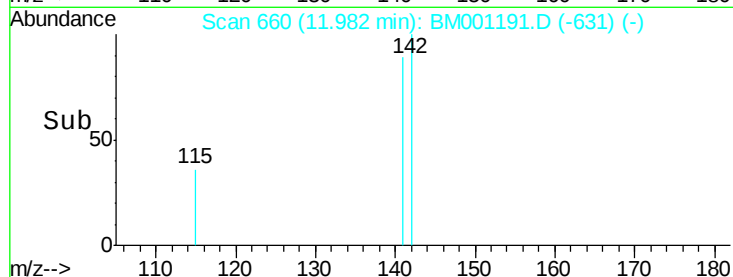
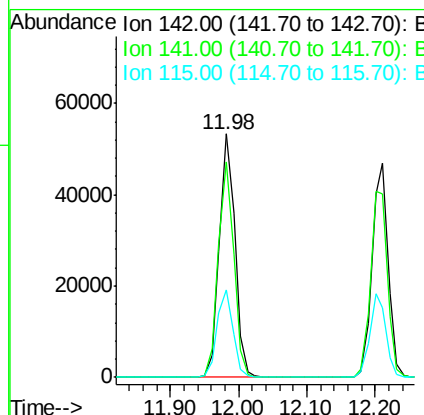
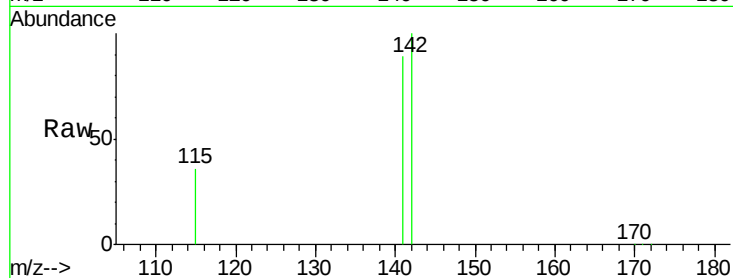
#11
2-Methylnaphthalene
Concen: 8.07 ng
RT: 11.98 min Scan# 660
Delta R.T. 0.00 min
Lab File: BM001191.D
Acq: 04 May 2015 19:36

Instrument :
BNA_M
ClientSampleId :
PB83178BS

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.5	65.1	97.7
115	35.9	25.1	37.7

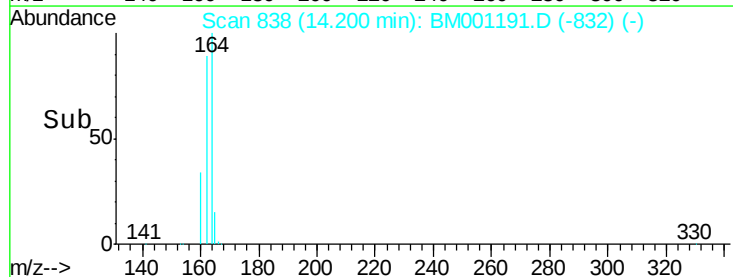
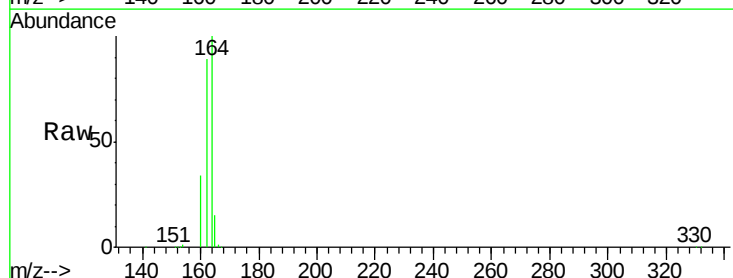
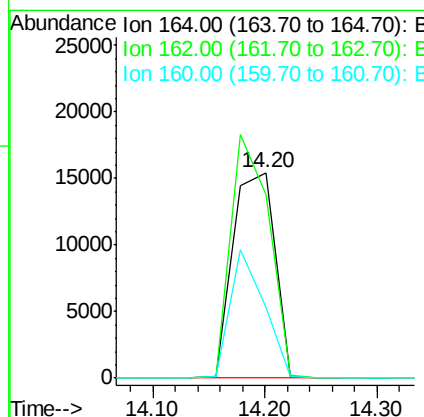
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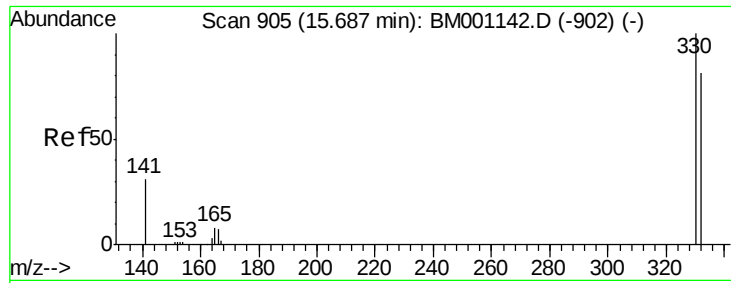
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.20 min Scan# 838
Delta R.T. 0.00 min
Lab File: BM001191.D
Acq: 04 May 2015 19:36

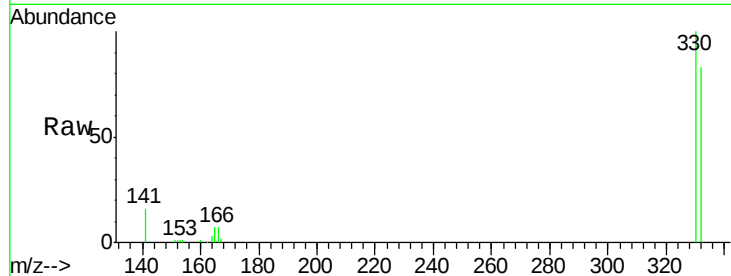
Tgt Ion	Ratio	Lower	Upper
164	100		
162	89.2	72.7	109.1
160	34.3	28.7	43.1





#13
 2,4,6-Tribromophenol
 Concen: 14.11 ng
 RT: 15.69 min Scan# 905
 Delta R.T. 0.00 min
 Lab File: BM001191.D
 Acq: 04 May 2015 19:36

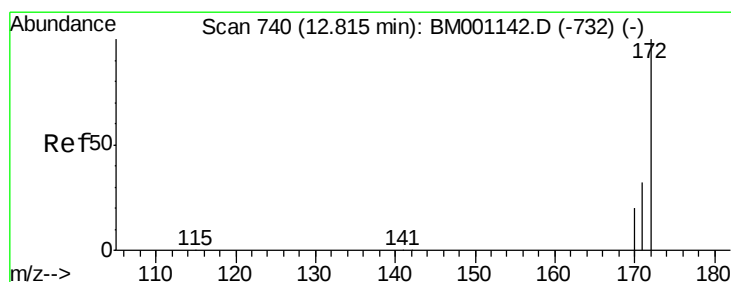
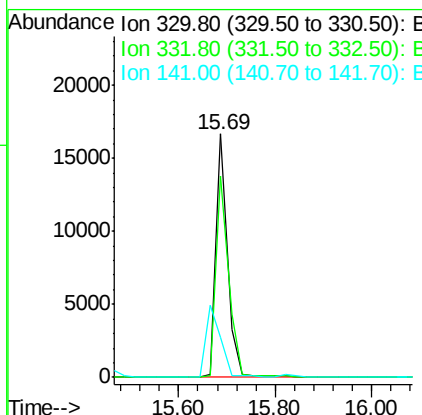
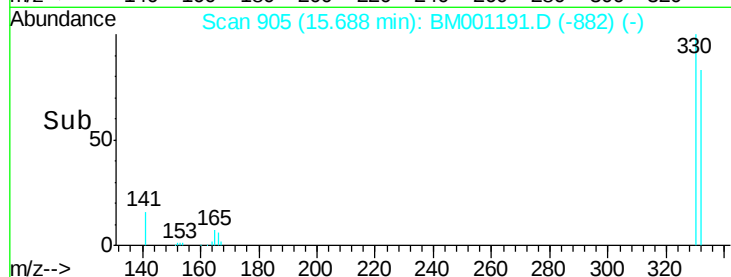
Instrument :
 BNA_M
 ClientSampleId :
 PB83178BS



Tgt Ion:330 Resp: 27714
 Ion Ratio Lower Upper
 330 100
 332 91.2 74.5 111.7
 141 0.0 21.0 31.4#

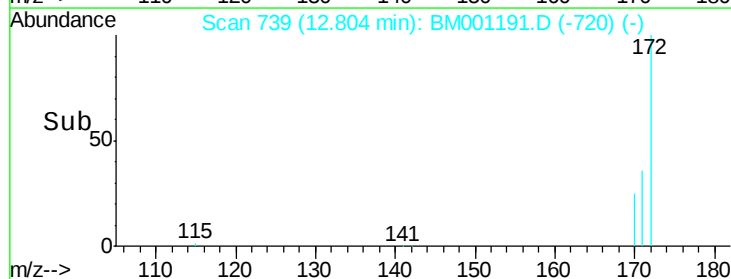
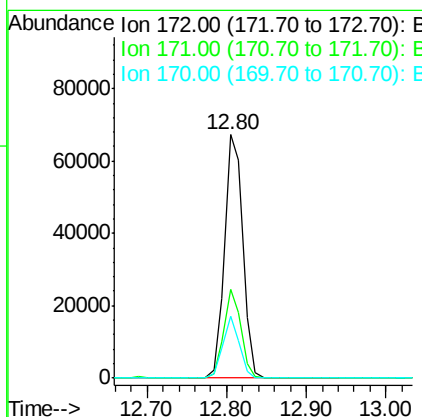
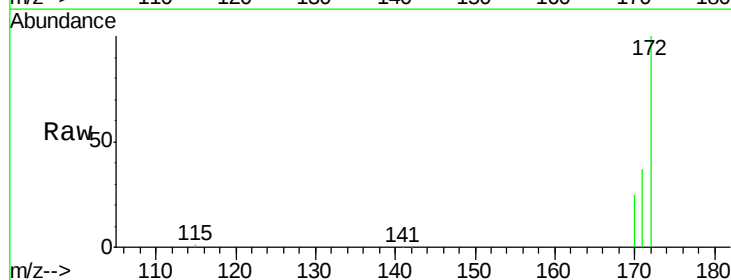
Manual Integrations
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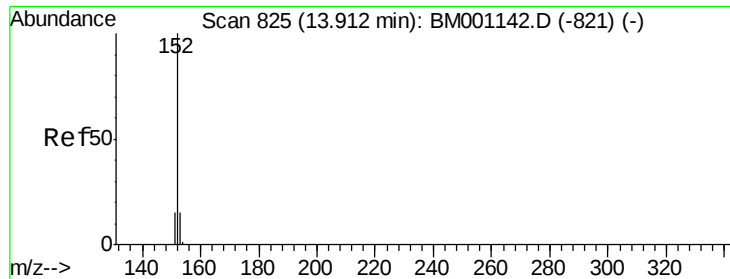
apatel
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#14
 2-Fluorobiphenyl
 Concen: 8.07 ng
 RT: 12.80 min Scan# 739
 Delta R.T. 0.00 min
 Lab File: BM001191.D
 Acq: 04 May 2015 19:36

Tgt Ion:172 Resp: 106404
 Ion Ratio Lower Upper
 172 100
 171 36.6 25.8 38.6
 170 25.4 16.1 24.1#





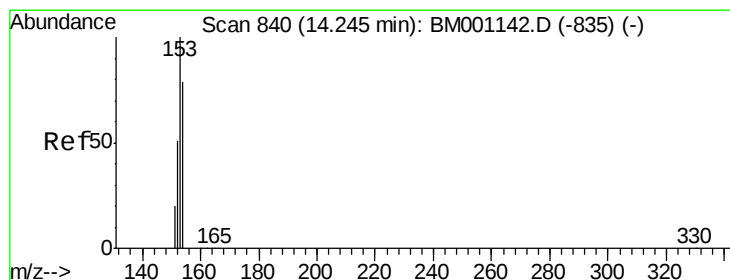
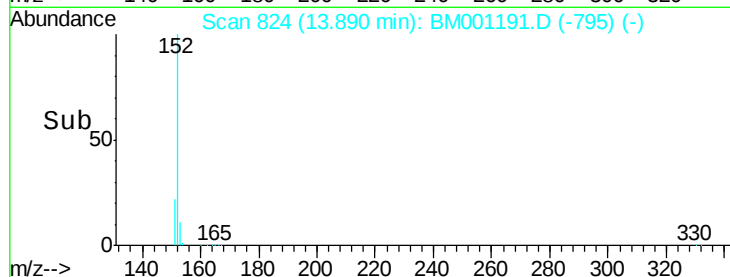
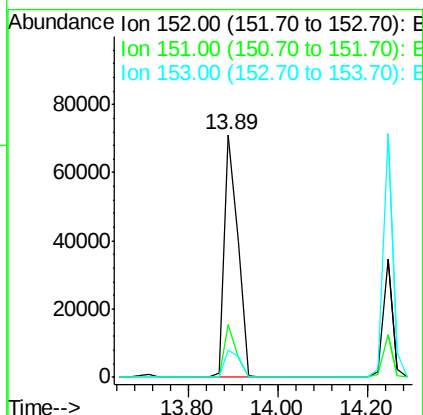
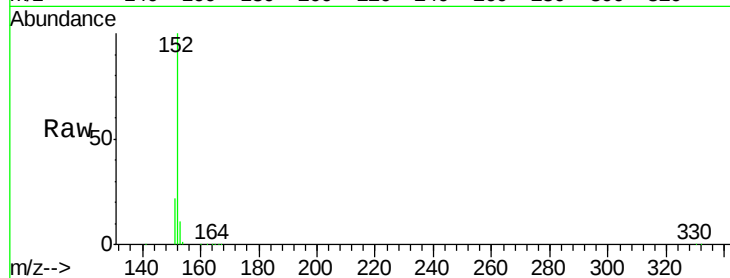
#15
Acenaphthylene
Concen: 8.64 ng
RT: 13.89 min Scan# 824
Delta R.T. 0.00 min
Lab File: BM001191.D
Acq: 04 May 2015 19:36

Instrument :
BNA_M
ClientSampleId :
PB83178BS

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	150527		
151	19.3	0.0	0.0	0.0
153	12.8	10.3	15.5	

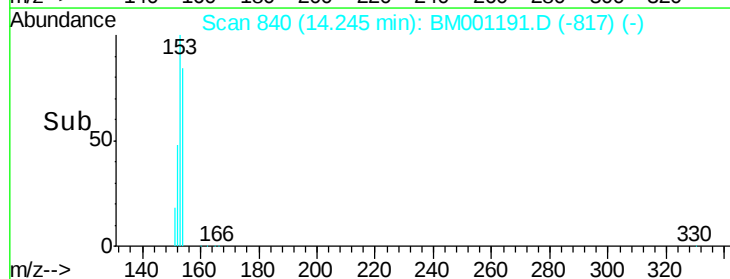
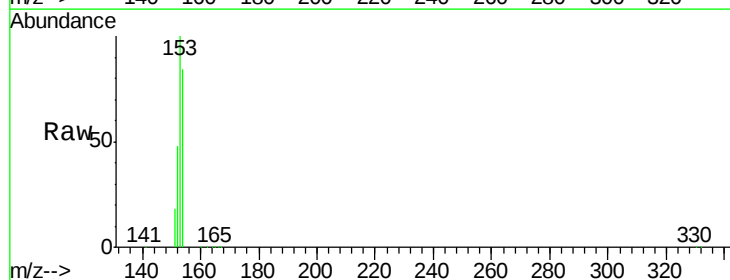
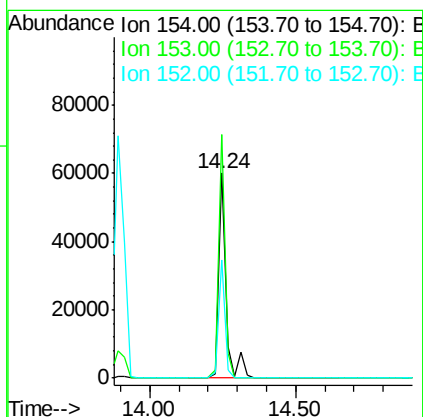
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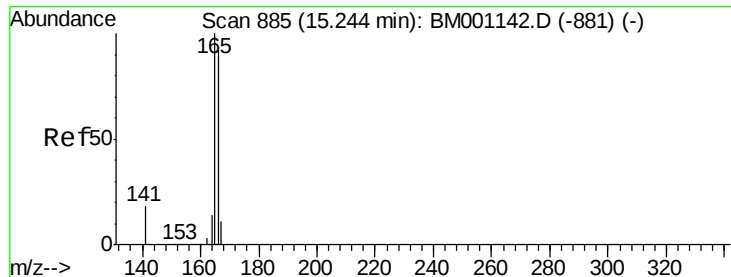
apatel
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#16
Acenaphthene
Concen: 8.83 ng
RT: 14.24 min Scan# 840
Delta R.T. 0.00 min
Lab File: BM001191.D
Acq: 04 May 2015 19:36

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	106311		
153	101.3	90.6	136.0	
152	48.7	45.0	67.4	





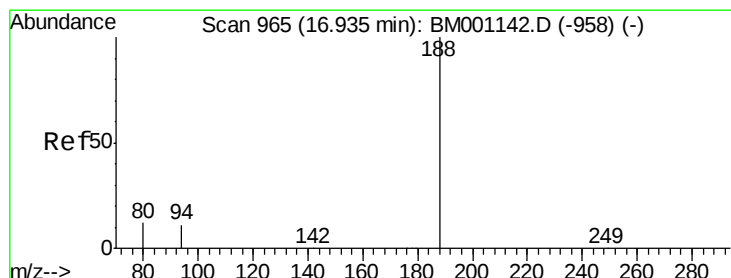
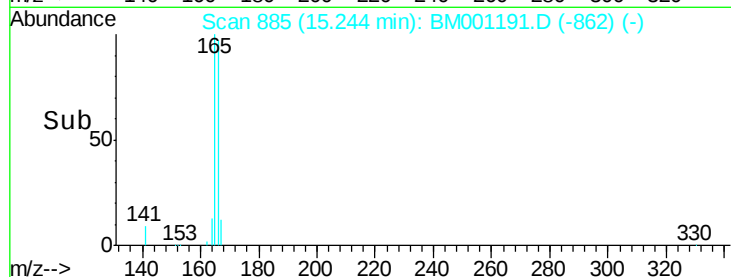
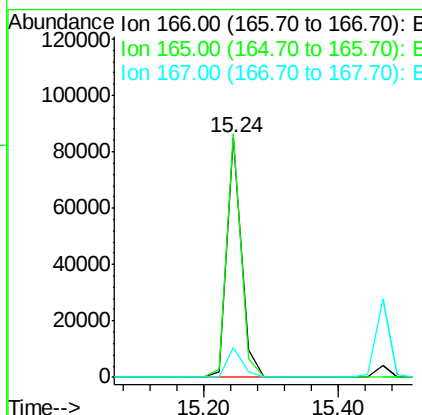
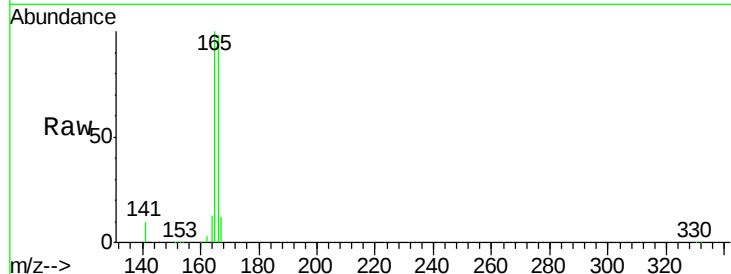
#17
Fluorene
 Concen: 9.21 ng
 RT: 15.24 min Scan# 885
 Delta R.T. 0.00 min
 Lab File: BM001191.D
 Acq: 04 May 2015 19:36

Instrument :
 BNA_M
 ClientSampleId :
 PB83178BS

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	128653		
165	99.1	81.0	121.6	
167	13.0	10.4	15.6	

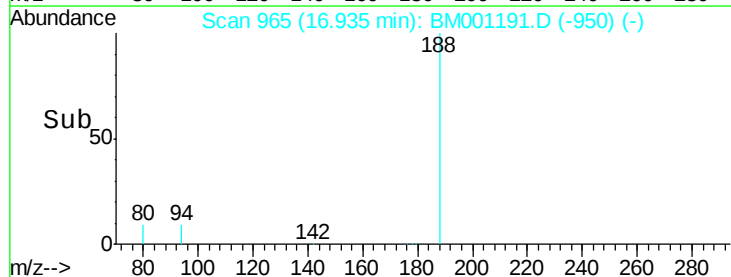
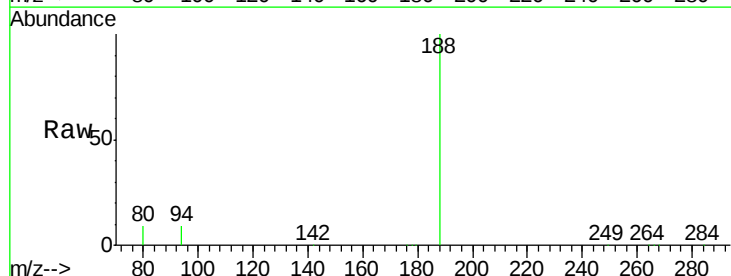
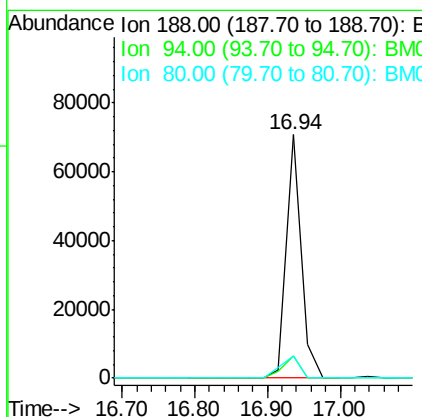
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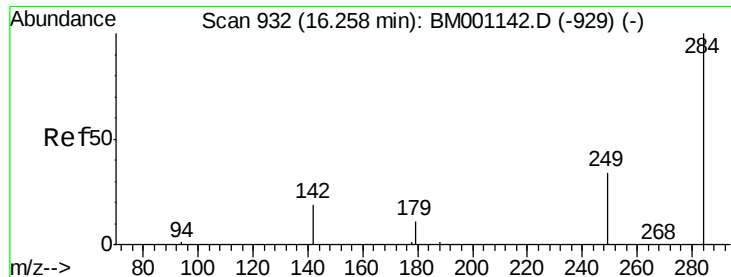
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#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 16.94 min Scan# 965
 Delta R.T. 0.00 min
 Lab File: BM001191.D
 Acq: 04 May 2015 19:36

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	102198		
94	9.0	9.3	13.9#	
80	9.0	9.8	14.6#	





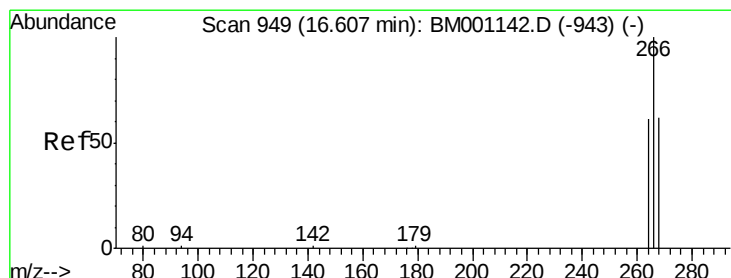
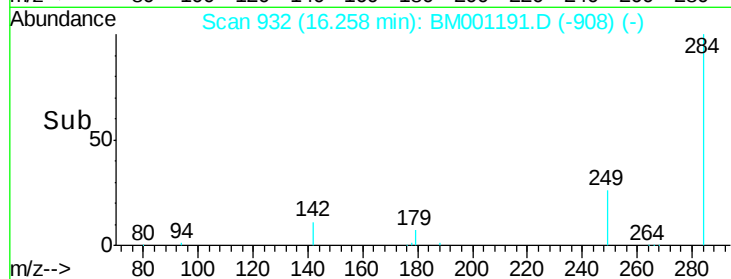
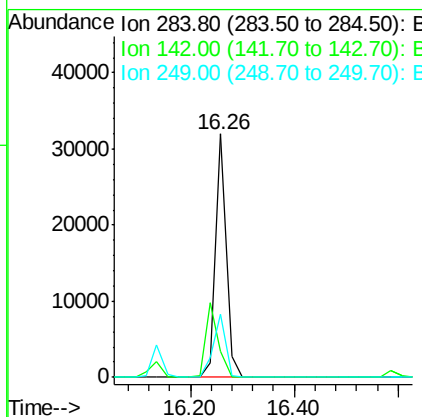
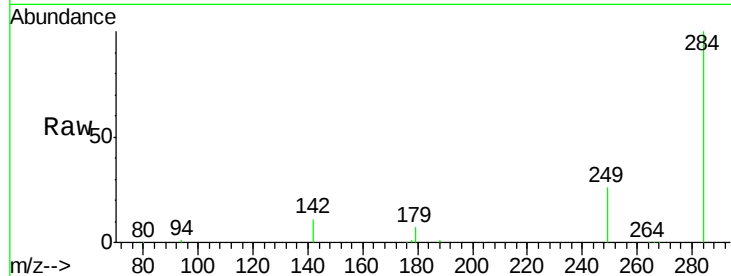
#19
Hexachlorobenzene
Concen: 8.16 ng
RT: 16.26 min Scan# 932
Delta R.T. 0.00 min
Lab File: BM001191.D
Acq: 04 May 2015 19:36

Instrument :
BNA_M
ClientSampleId :
PB83178BS

Tgt Ion	Ratio	Resp	Lower	Upper
284	100	44912		
142	0.0	0.0	0.0	0.0
249	30.0	26.5	39.7	

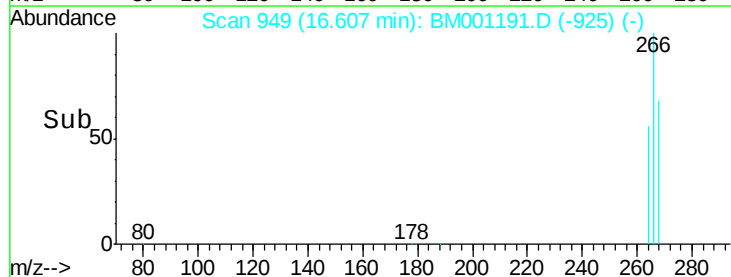
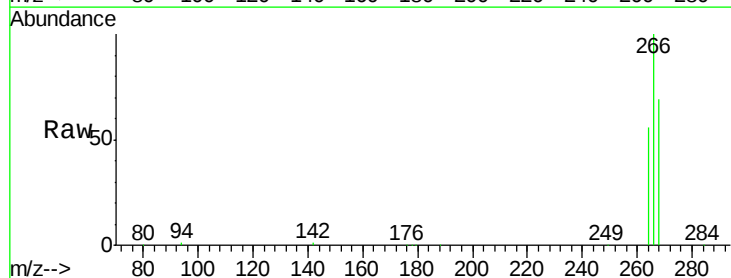
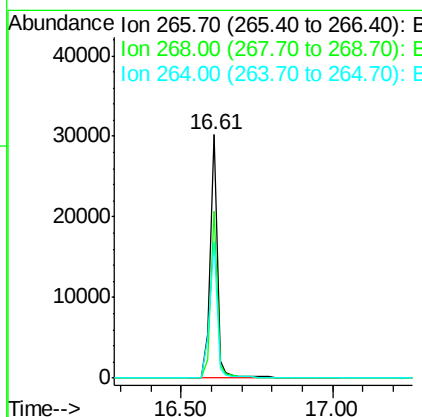
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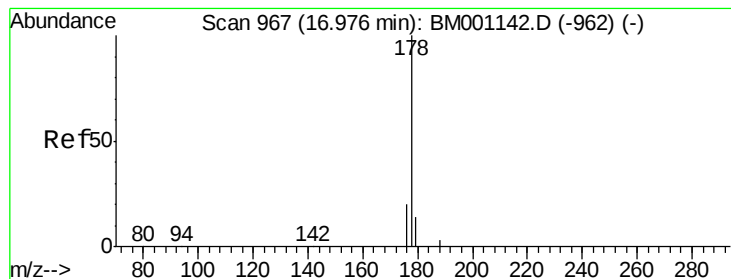
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#20
Pentachlorophenol
Concen: 20.04 ng
RT: 16.61 min Scan# 949
Delta R.T. 0.00 min
Lab File: BM001191.D
Acq: 04 May 2015 19:36

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	49196		
268	68.5	52.6	79.0	
264	56.1	51.0	76.4	





#21

Phenanthrene

Concen: 8.02 ng

RT: 16.98 min Scan# 967

Delta R.T. 0.00 min

Lab File: BM001191.D

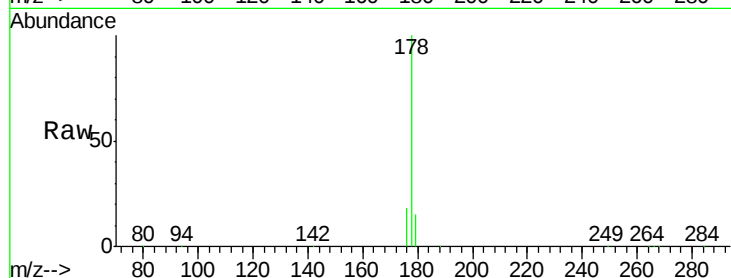
Acq: 04 May 2015 19:36

Instrument :

BNA_M

ClientSampleId :

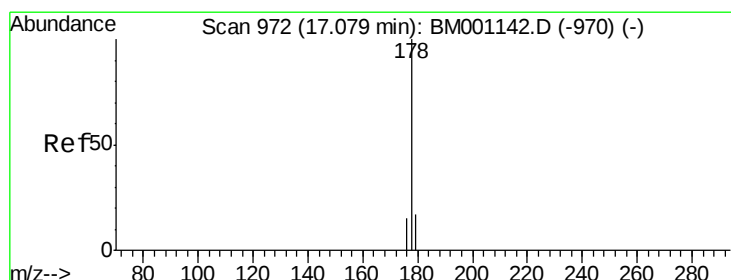
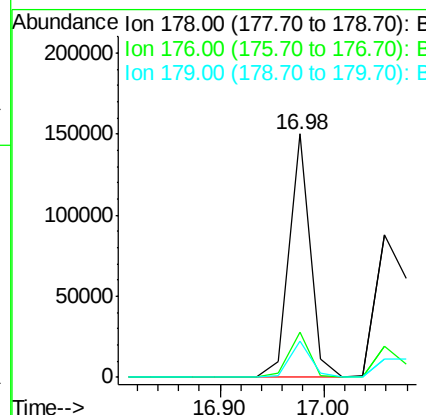
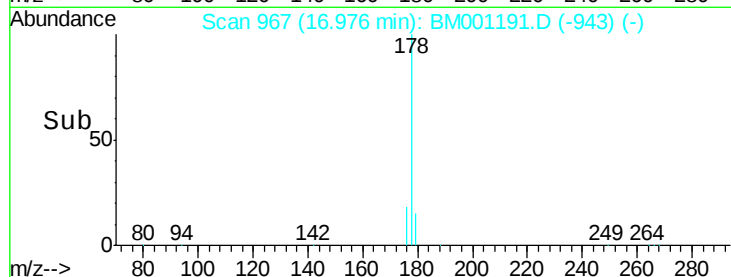
PB83178BS



Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.5	23.3
179	15.2	12.0	18.0

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#22

Anthracene

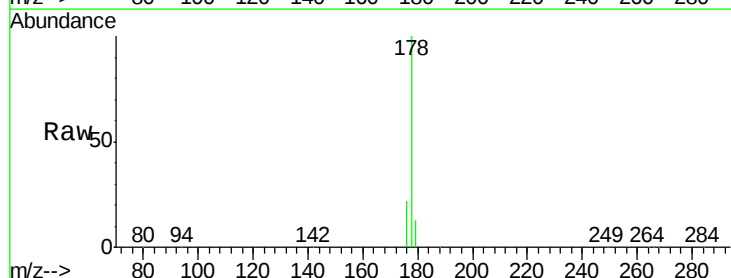
Concen: 8.64 ng m

RT: 17.06 min Scan# 971

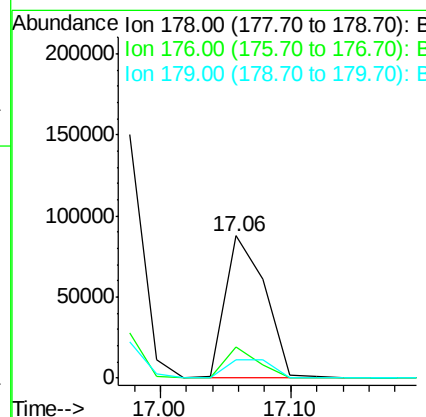
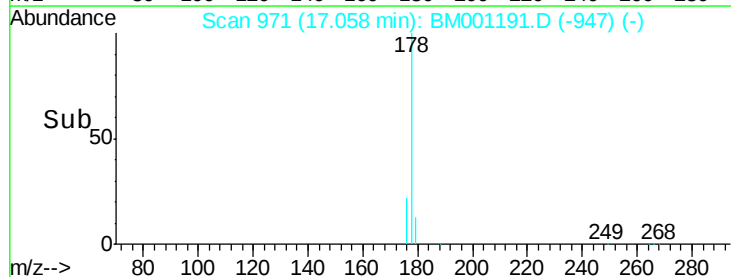
Delta R.T. 0.00 min

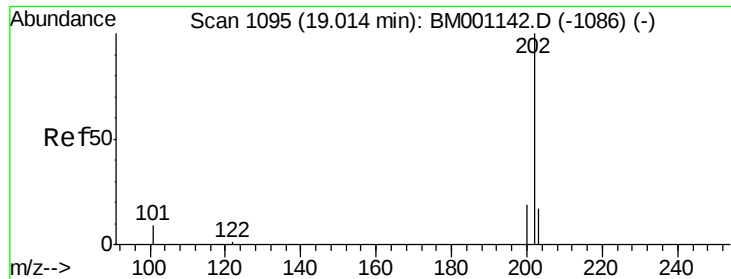
Lab File: BM001191.D

Acq: 04 May 2015 19:36



Tgt Ion	Ratio	Lower	Upper
178	100		
176	21.0	14.3	21.5
179	17.0	12.2	18.2





#23

Fluoranthene

Concen: 8.69 ng

RT: 19.01 min Scan# 1095

Delta R.T. 0.00 min

Lab File: BM001191.D

Acq: 04 May 2015 19:36

Instrument :

BNA_M

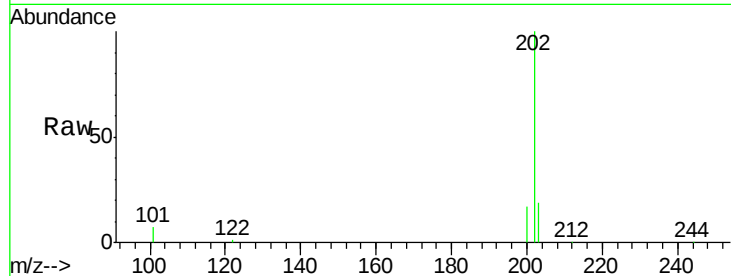
ClientSampleId :

PB83178BS

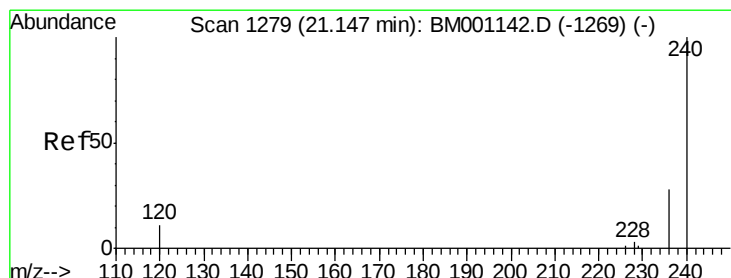
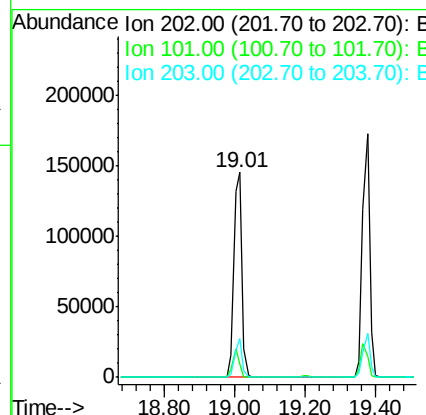
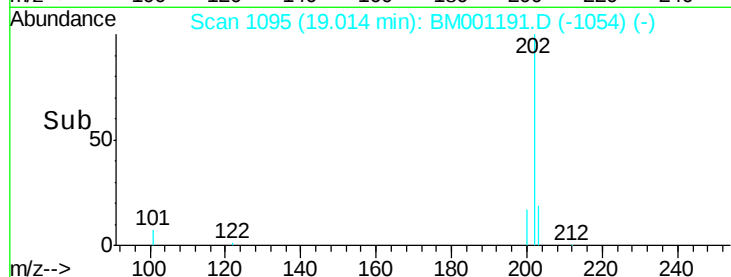
Tgt	Ion	202	Resp:	231542
Ion	Ratio	Lower	Upper	
202	100			
101	11.6	9.3	13.9	
203	17.3	13.7	20.5	

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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



#24

Chrysene-d12

Concen: 5.00 ng

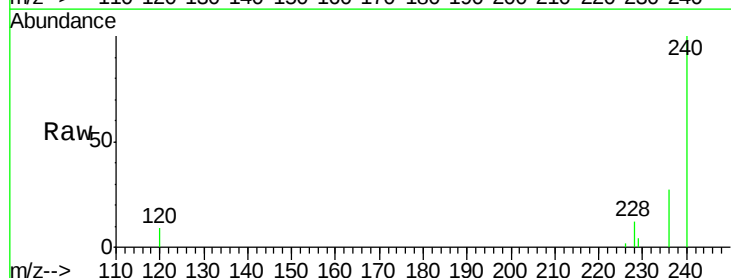
RT: 21.15 min Scan# 1279

Delta R.T. 0.00 min

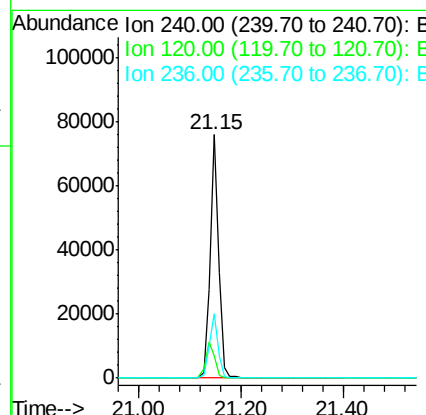
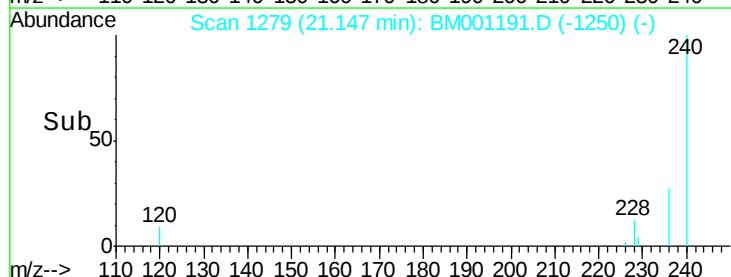
Lab File: BM001191.D

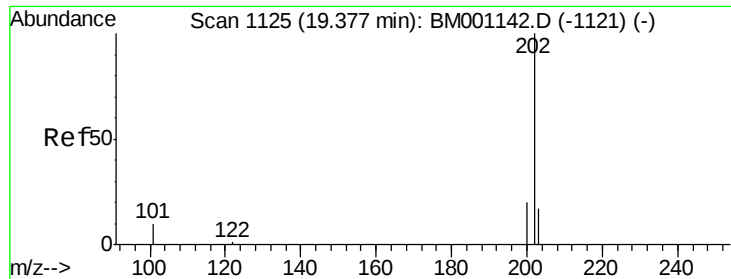
Acq: 04 May 2015 19:36

Tgt	Ion	240	Resp:	89765
Ion	Ratio	Lower	Upper	
240	100			
120	9.3	9.2	13.8	
236	26.7	22.4	33.6	



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





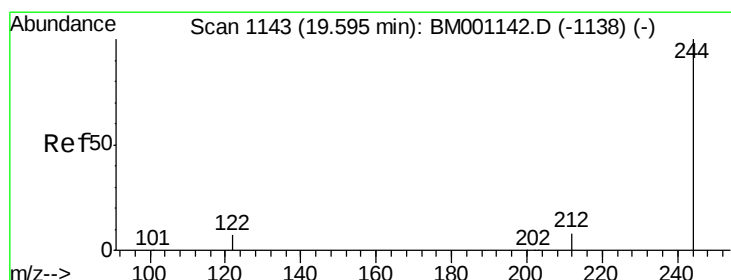
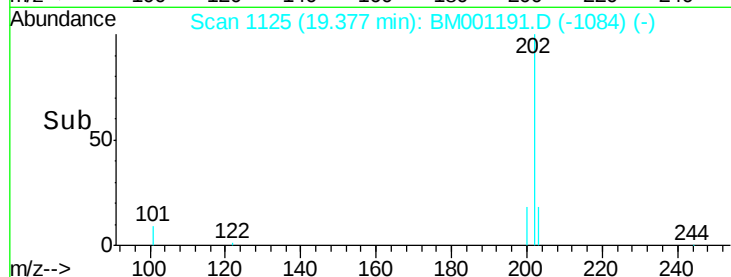
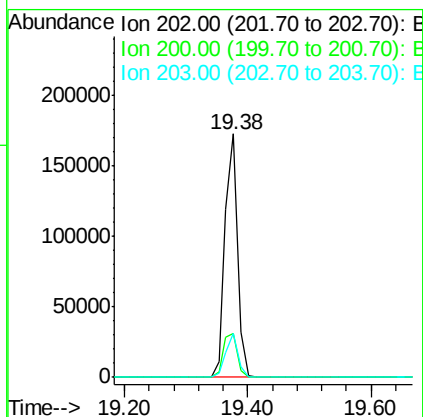
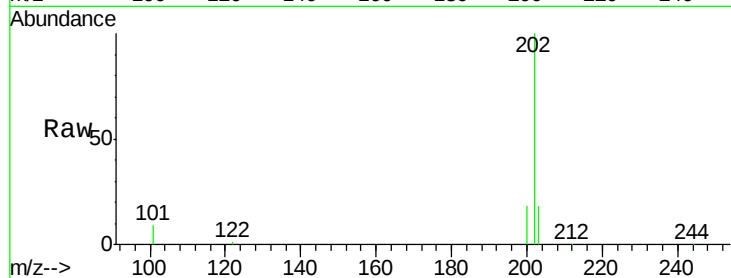
#25
 Pyrene
 Concen: 8.77 ng
 RT: 19.38 min Scan# 1125
 Delta R.T. 0.00 min
 Lab File: BM001191.D
 Acq: 04 May 2015 19:36

Instrument :
 BNA_M
 ClientSampleId :
 PB83178BS

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	20.3	16.4	24.6
203	17.7	13.8	20.6

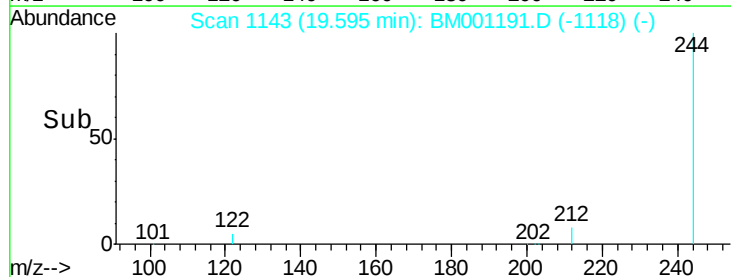
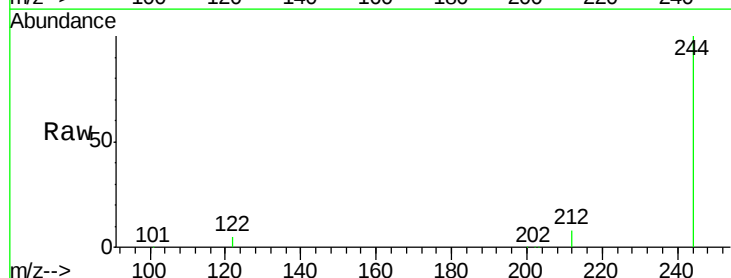
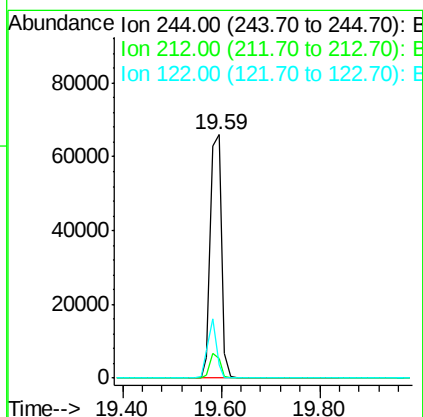
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#26
 Terphenyl-d14
 Concen: 8.36 ng
 RT: 19.59 min Scan# 1143
 Delta R.T. 0.00 min
 Lab File: BM001191.D
 Acq: 04 May 2015 19:36

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	8.1	7.1	10.7
122	5.2	6.2	9.4





#27

Benzo(a)anthracene

Concen: 8.62 ng

RT: 21.13 min Scan# 1277

Delta R.T. 0.00 min

Lab File: BM001191.D

Acq: 04 May 2015 19:36

Instrument :

BNA_M

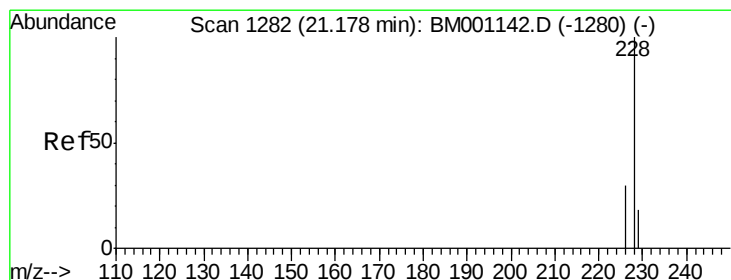
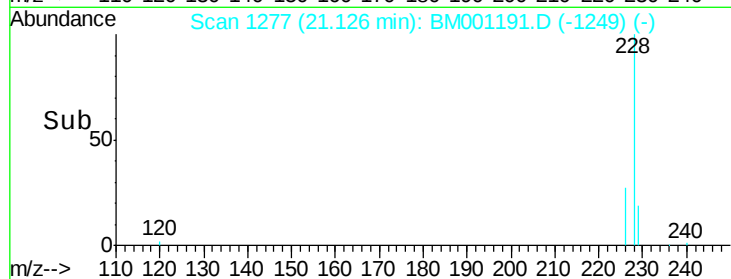
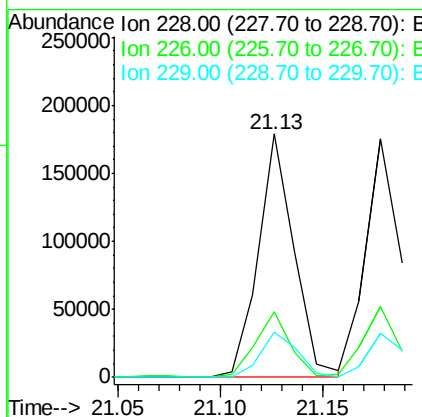
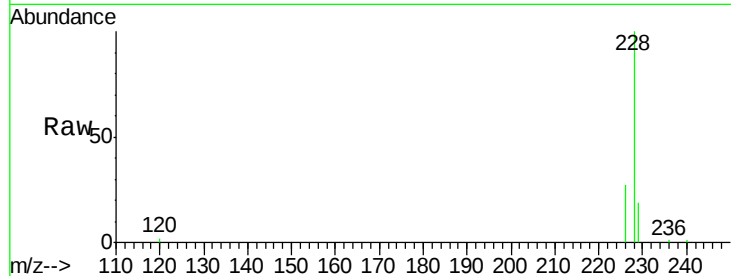
ClientSampleId :

PB83178BS

Tgt Ion:	228	Resp:	218092
Ion Ratio		Lower	Upper
228	100		
226	26.9	22.8	34.2
229	18.6	14.4	21.6

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#28

Chrysene

Concen: 8.26 ng

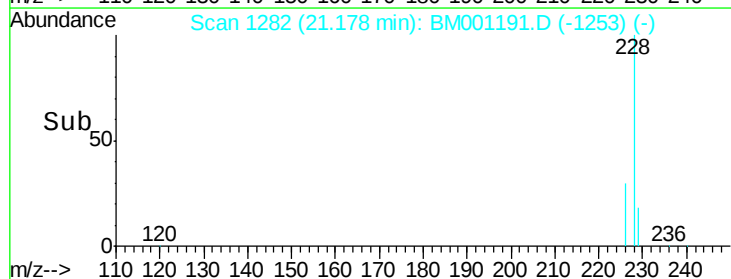
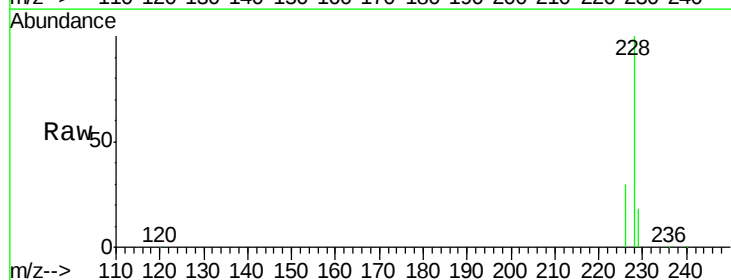
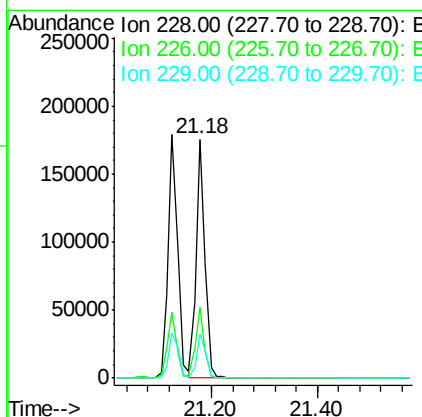
RT: 21.18 min Scan# 1282

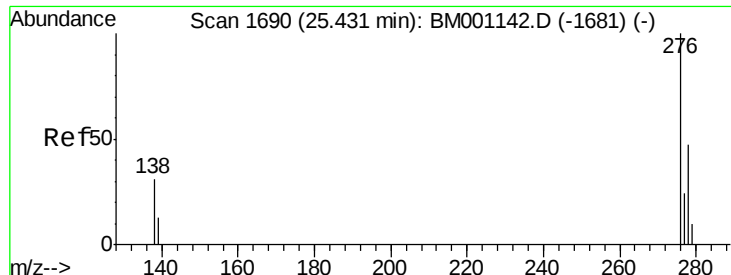
Delta R.T. 0.00 min

Lab File: BM001191.D

Acq: 04 May 2015 19:36

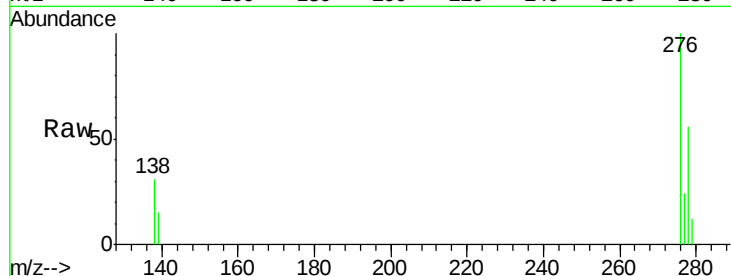
Tgt Ion:	228	Resp:	205188
Ion Ratio		Lower	Upper
228	100		
226	29.7	24.4	36.6
229	18.4	14.3	21.5





#29
Indeno(1,2,3-cd)pyrene
Concen: 7.49 ng
RT: 25.43 min Scan# 1690
Delta R.T. 0.00 min
Lab File: BM001191.D
Acq: 04 May 2015 19:36

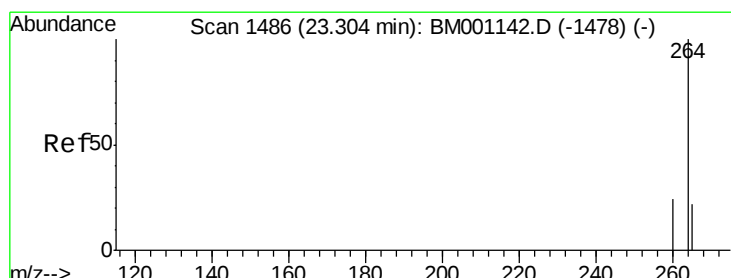
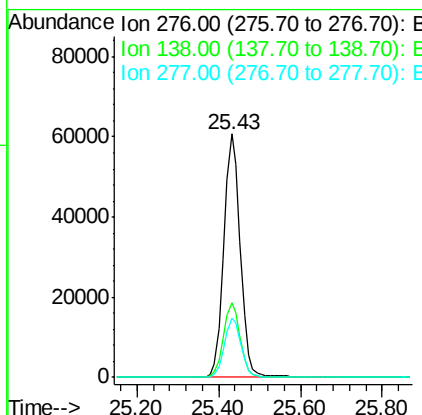
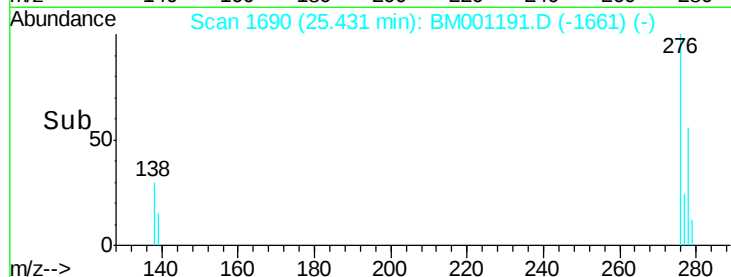
Instrument :
BNA_M
ClientSampleId :
PB83178BS



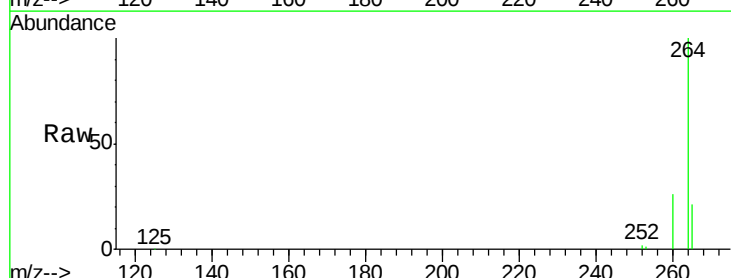
Tgt Ion	Ratio	Resp	Lower	Upper
276	100	169616		
138	31.1	24.2	36.4	
277	24.5	19.8	29.6	

Manual Integrations
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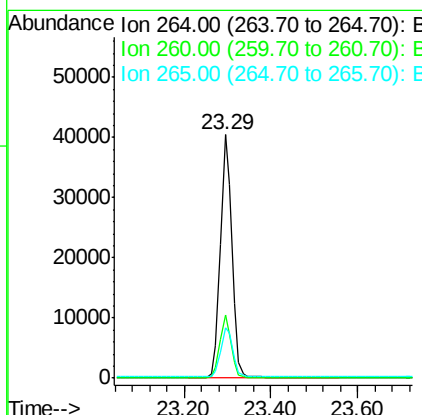
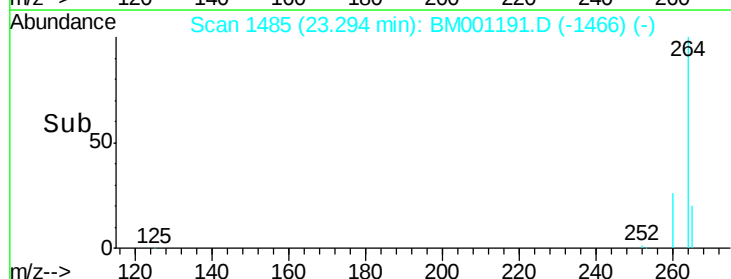
apatel
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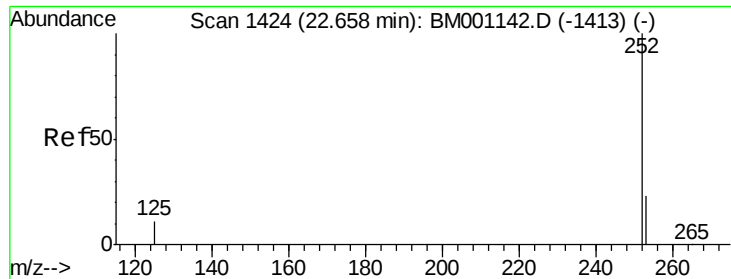


#30
Perylene-d12
Concen: 5.00 ng
RT: 23.29 min Scan# 1485
Delta R.T. 0.00 min
Lab File: BM001191.D
Acq: 04 May 2015 19:36



Tgt Ion	Ratio	Resp	Lower	Upper
264	100	73813		
260	25.7	18.9	28.3	
265	20.9	18.1	27.1	





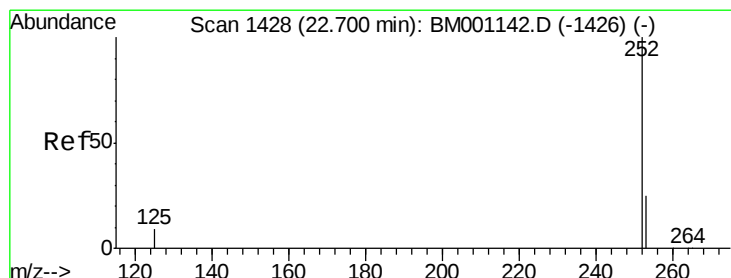
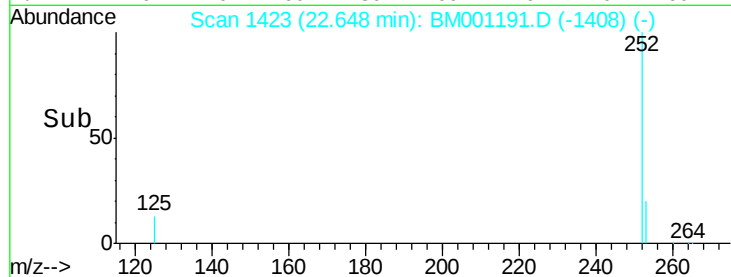
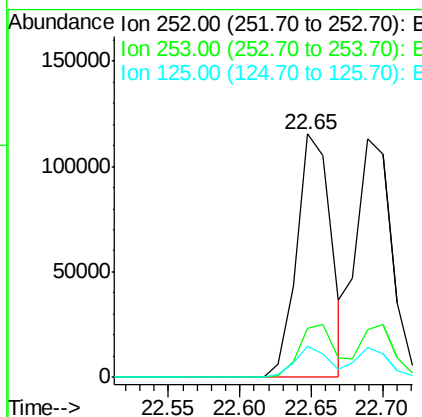
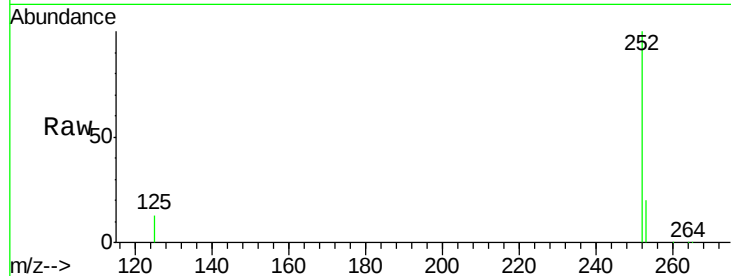
#31
Benzo(b)fluoranthene
Concen: 8.43 ng
RT: 22.65 min Scan# 1423
Delta R.T. 0.00 min
Lab File: BM001191.D
Acq: 04 May 2015 19:36

Instrument :
BNA_M
ClientSampleId :
PB83178BS

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	20.1	19.0	28.4
125	12.8	9.1	13.7

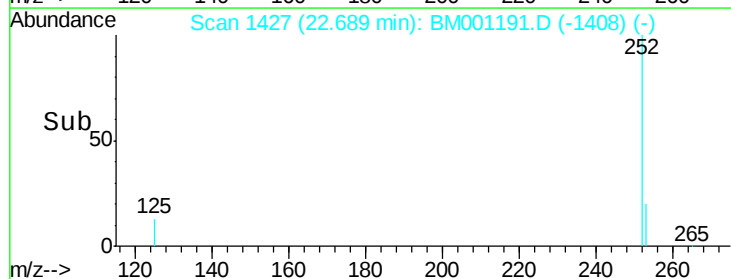
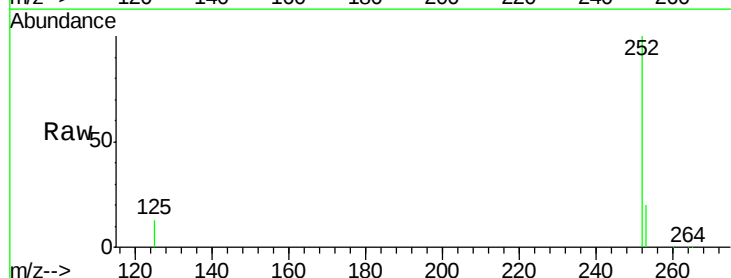
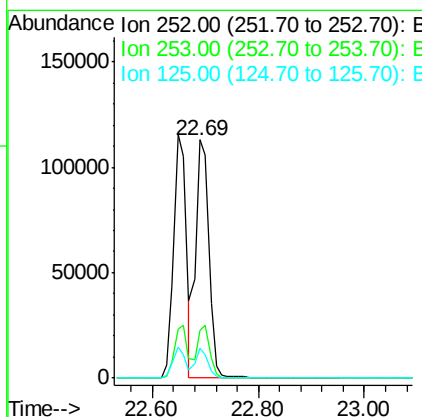
Manual Integrations
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5/5/2015 12:09:23 PM



#32
Benzo(k)fluoranthene
Concen: 9.15 ng
RT: 22.69 min Scan# 1427
Delta R.T. 0.00 min
Lab File: BM001191.D
Acq: 04 May 2015 19:36

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	20.2	19.1	28.7
125	12.7	9.3	13.9





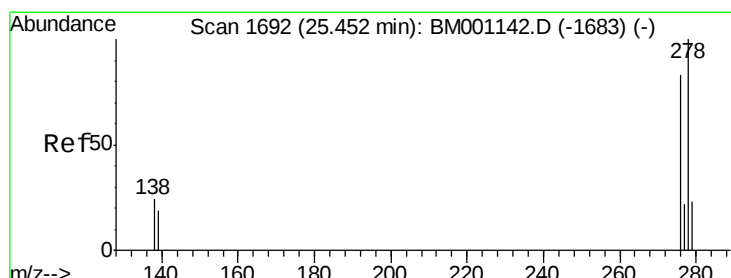
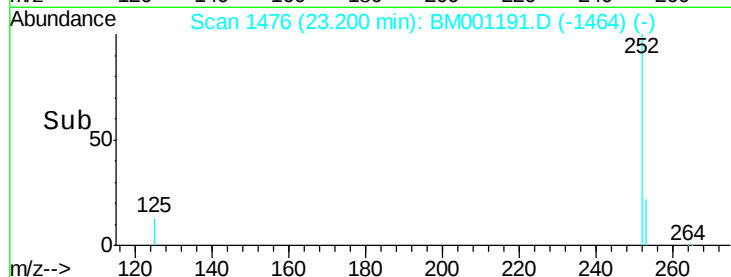
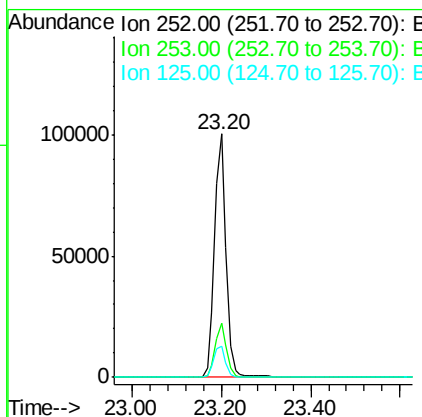
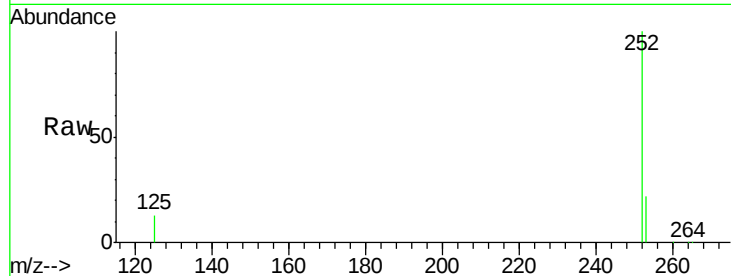
#33
Benzo(a)pyrene
Concen: 9.30 ng
RT: 23.20 min Scan# 1476
Delta R.T. 0.00 min
Lab File: BM001191.D
Acq: 04 May 2015 19:36

Instrument :
BNA_M
ClientSampleId :
PB83178BS

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	22.1	18.2	27.2
125	12.6	10.6	16.0

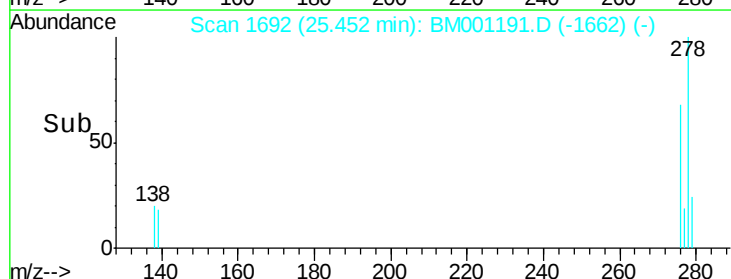
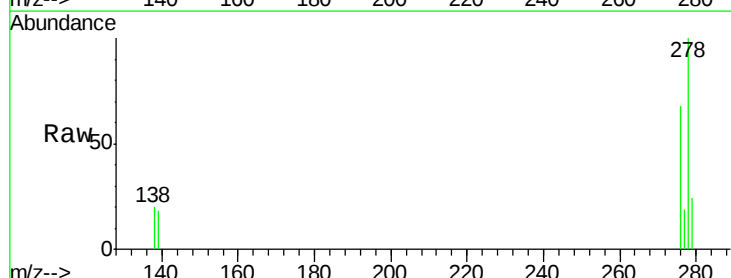
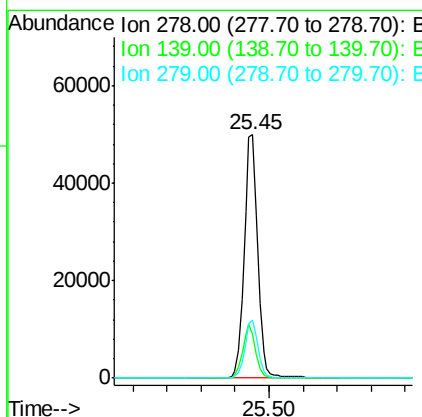
Manual Integrations
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#34
Dibenzo(a,h)anthracene
Concen: 8.09 ng
RT: 25.45 min Scan# 1692
Delta R.T. 0.01 min
Lab File: BM001191.D
Acq: 04 May 2015 19:36

Tgt Ion	Ratio	Resp Lower	Resp Upper
278	100		
139	17.9	15.5	23.3
279	24.0	19.7	29.5





#35

Benzo(g,h,i)perylene

Concen: 7.75 ng

RT: 26.09 min Scan# 1753

Delta R.T. 0.00 min

Lab File: BM001191.D

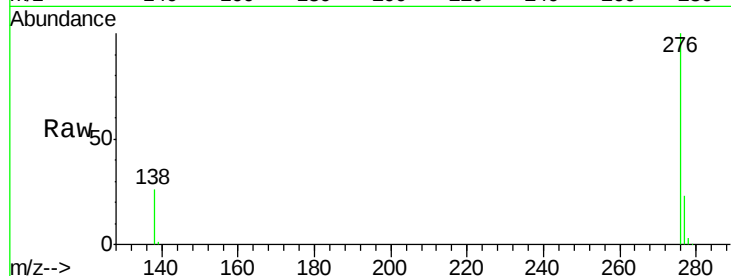
Acq: 04 May 2015 19:36

Instrument :

BNA_M

ClientSampleId :

PB83178BS



Tgt	Ion	276	Resp	137475
Ion	Ratio	Lower	Upper	
276	100			
277	23.4	19.0	28.4	
138	25.7	21.3	31.9	

Manual Integrations
APPROVED

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