

Data Path : Z:\HPCHEM1\BNA M\DATA\BM050115\
 Data File : BM001149.D
 Acq On : 02 May 2015 02:07
 Operator : TP/IZ
 Sample : PB83018BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PB83018BS

Manual Integrations
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apatel
 5/5/2015 8:03:43 AM

Quant Time: May 04 17:04:59 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SIMPAH-BM050115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 04 16:48:07 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.53	152	15405	5.00	ng	0.00
6) Naphthalene-d8	10.31	136	62441	5.00	ng	0.00
12) Acenaphthene-d10	14.20	164	34408	5.00	ng	0.00
18) Phenanthrene-d10	16.94	188	81677	5.00	ng	0.00
24) Chrysene-d12	21.15	240	60557	5.00	ng	0.00
30) Perylene-d12	23.29	264	45544	5.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.11	112	42992	14.35	ng	-0.01
5) Phenol-d6	6.71	99	58252	15.78	ng	0.00
7) Nitrobenzene-d5	8.69	82	39642	11.21	ng	0.00
13) 2,4,6-Tribromophenol	15.69	330	25393	14.97	ng	0.00
14) 2-Fluorobiphenyl	12.81	172	115431	10.14	ng	0.00
26) Terphenyl-d14	19.59	244	89014	10.66	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.01	88	11651	9.22	ng	# 75
3) n-Nitrosodimethylamine	3.32	42	18341	9.73	ng	99
8) Nitrobenzene	8.73	77	43946	9.40	ng	94
9) Naphthalene	10.36	128	126523	9.22	ng	99
10) Hexachlorobutadiene	10.65	225	23931	9.04	ng	100
11) 2-Methylnaphthalene	11.98	142	89399m	9.49	ng	
15) Acenaphthylene	13.89	152	155003	10.31	ng	# 67
16) Acenaphthene	14.24	154	107229	10.32	ng	89
17) Fluorene	15.24	166	126481	10.49	ng	99
19) Hexachlorobenzene	16.26	284	43496	9.88	ng	# 98
20) Pentachlorophenol	16.61	266	46164	23.47	ng	94
21) Phenanthrene	16.98	178	199416	9.48	ng	100
22) Anthracene	17.08	178	178041m	10.24	ng	
23) Fluoranthene	19.01	202	207643	9.75	ng	99
25) Pyrene	19.38	202	216673	11.45	ng	99
27) Benzo(a)anthracene	21.13	228	172061	10.08	ng	97
28) Chrysene	21.18	228	165844	9.90	ng	97
29) Indeno(1,2,3-cd)pyrene	25.43	276	127731	8.36	ng	99
31) Benzo(b)fluoranthene	22.65	252	139744	9.96	ng	95
32) Benzo(k)fluoranthene	22.69	252	139763	10.64	ng	95
33) Benzo(a)pyrene	23.20	252	127990	10.82	ng	99
34) Dibenzo(a,h)anthracene	25.44	278	102404	9.87	ng	97
35) Benzo(g,h,i)perylene	26.09	276	105633	9.65	ng	98

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

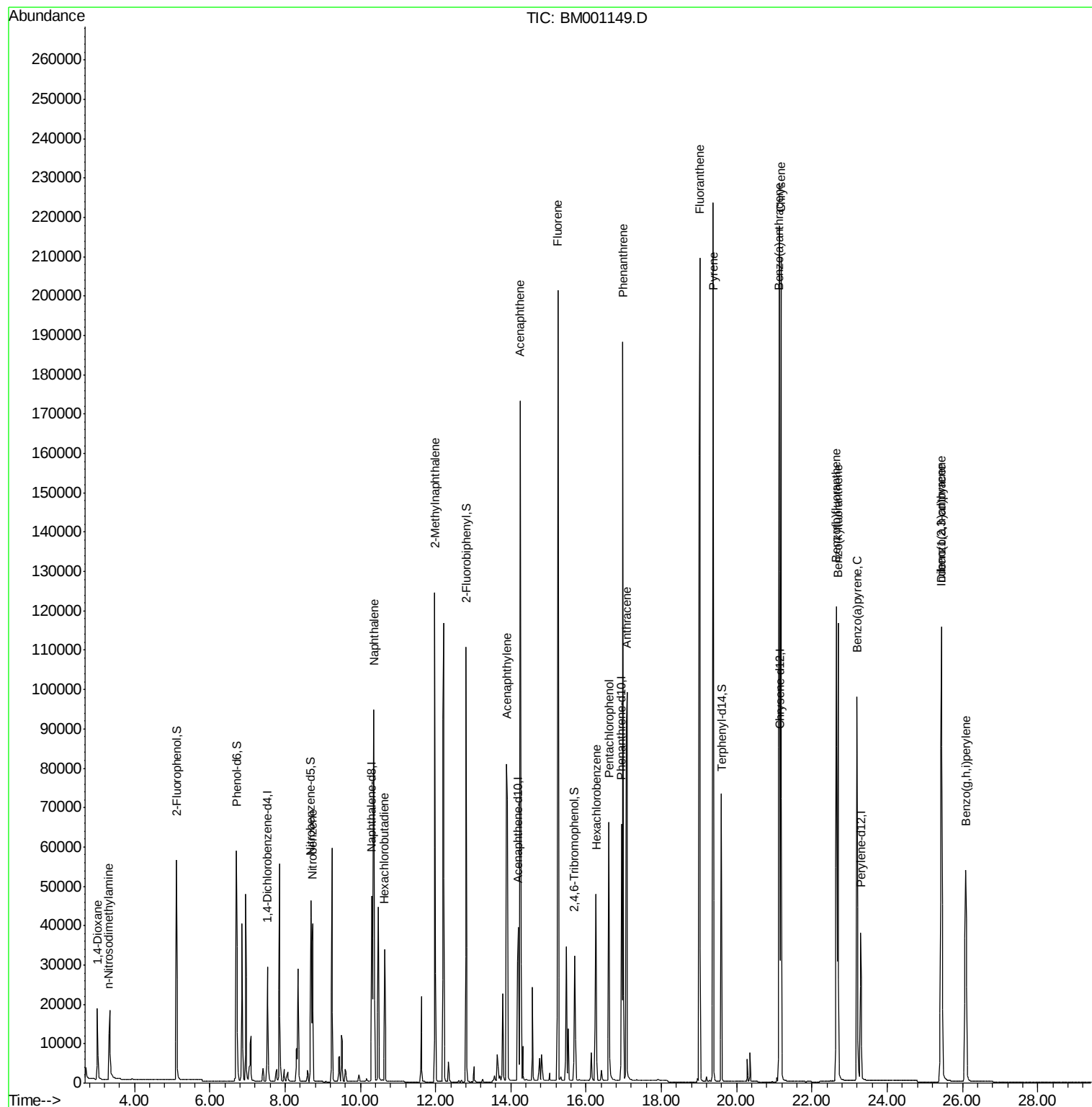
Data Path : Z:\HPCHEM1\BNA M\DATA\BM050115\
Data File : BM001149.D
Acq On : 02 May 2015 02:07
Operator : TP/IZ
Sample : PB83018BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

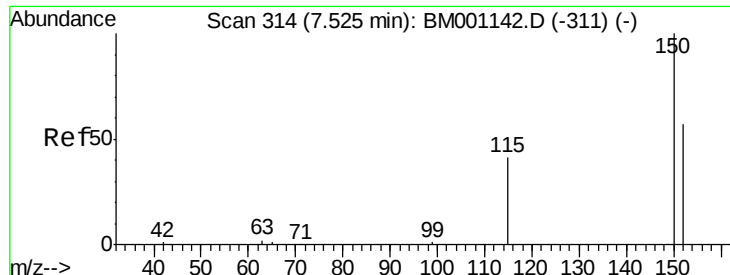
Instrument :
BNA_M
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#1

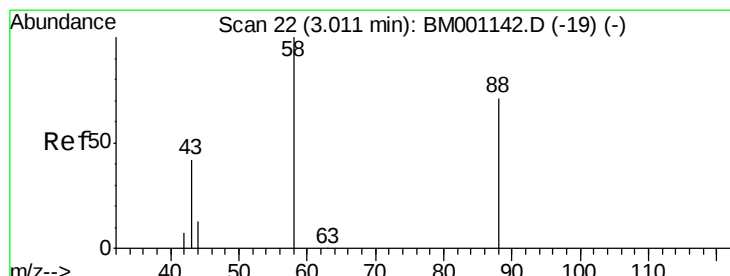
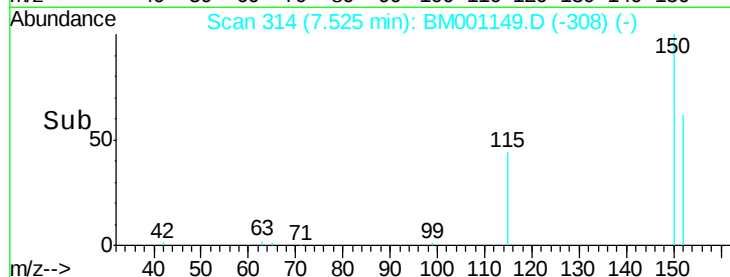
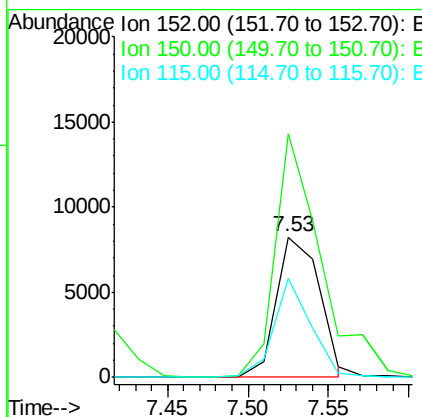
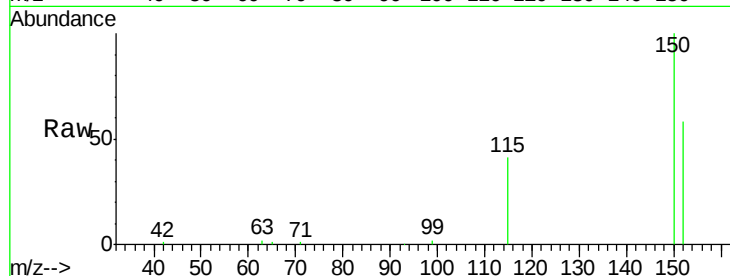
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.53 min Scan# 314
Delta R.T. 0.00 min
Lab File: BM001149.D
Acq: 02 May 2015 02:07

Instrument :
BNA_M
ClientSampleId :
PB83018BS

Tot Ion	Ratio	Lower	Upper
152	100		
150	173.2	140.1	210.1
115	70.5	57.8	86.6

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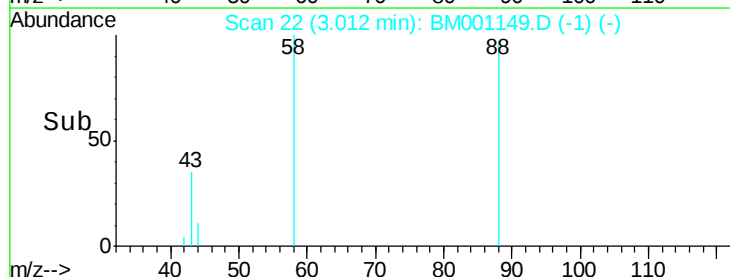
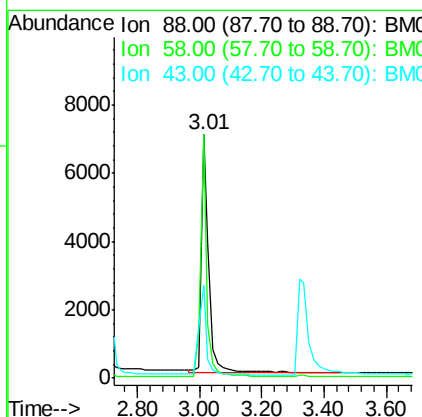
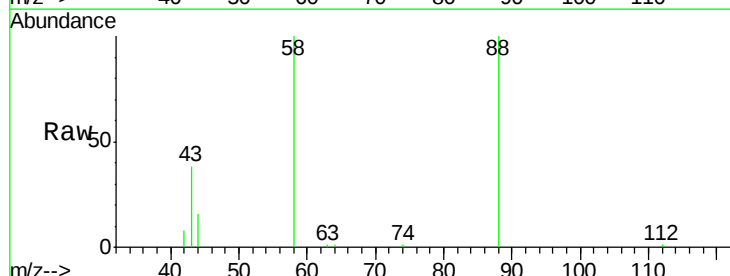
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#2

1,4-Dioxane
Concen: 9.22 ng
RT: 3.01 min Scan# 22
Delta R.T. 0.00 min
Lab File: BM001149.D
Acq: 02 May 2015 02:07

Tgt Ion	Ratio	Lower	Upper
88	100		
58	84.3	48.2	72.2#
43	37.6	24.8	37.2#





#3

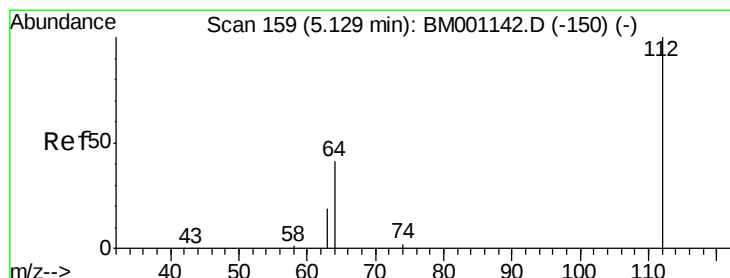
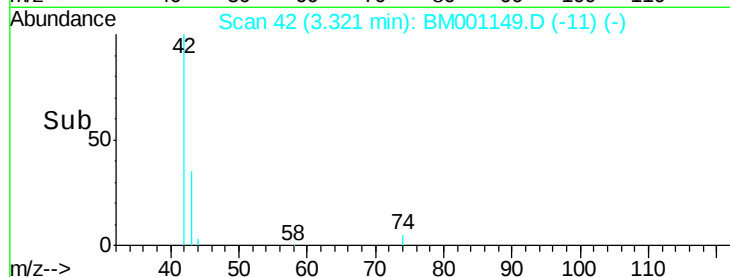
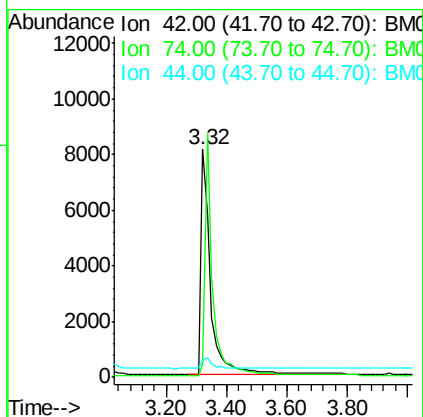
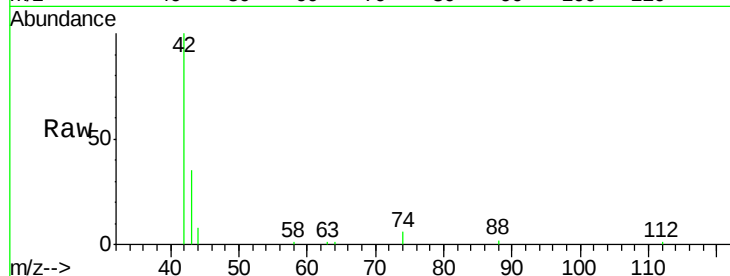
n-Nitrosodimethylamine
 Concen: 9.73 ng
 RT: 3.32 min Scan# 42
 Delta R.T. -0.02 min
 Lab File: BM001149.D
 Acq: 02 May 2015 02:07

Instrument :
 BNA_M
 ClientSampleId :
 PB83018BS

Tot Ion	Ratio	Lower	Upper
42	100		
74	89.3	72.0	108.0
44	5.4	3.7	5.5

Manual Integrations
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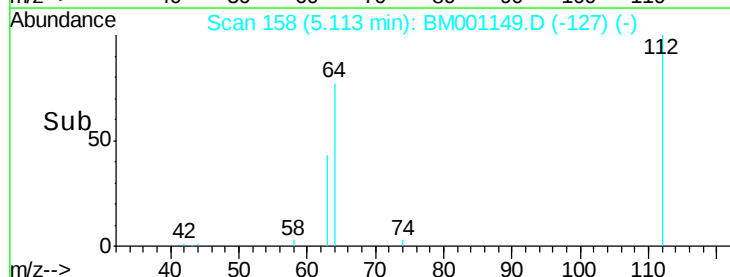
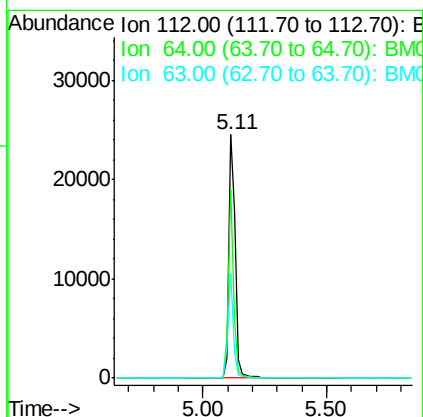
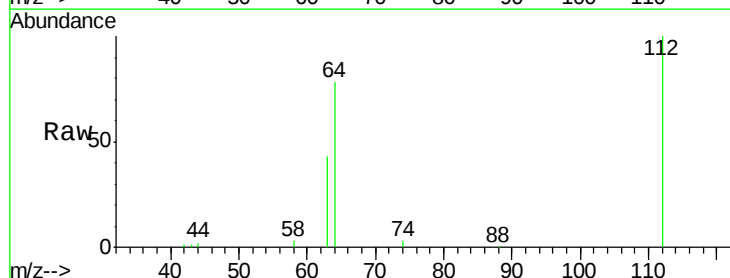
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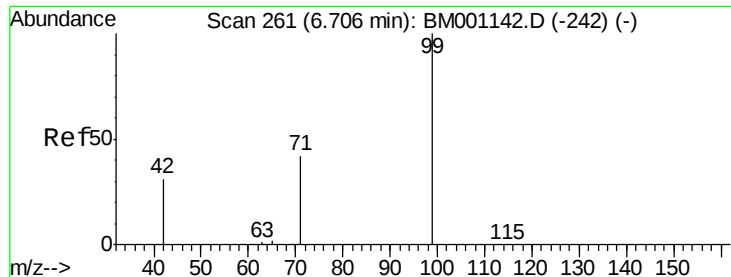


#4

2-Fluorophenol
 Concen: 14.35 ng
 RT: 5.11 min Scan# 158
 Delta R.T. -0.01 min
 Lab File: BM001149.D
 Acq: 02 May 2015 02:07

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.2	52.6	79.0
63	36.4	29.5	44.3





#5

Phenol-d6

Concen: 15.78 ng

RT: 6.71 min Scan# 261

Delta R.T. 0.00 min

Lab File: BM001149.D

Acq: 02 May 2015 02:07

Instrument :

BNA_M

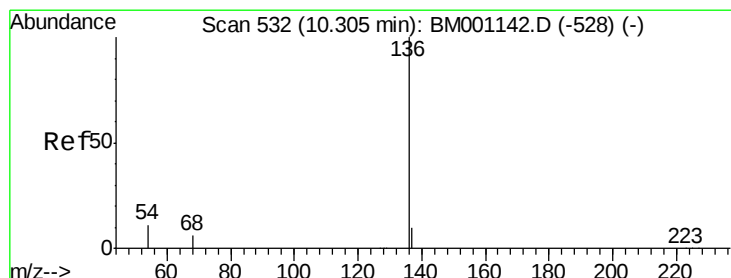
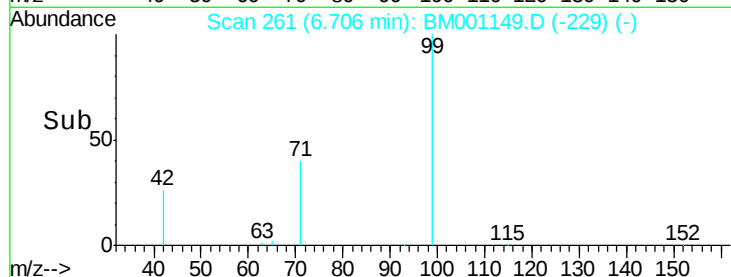
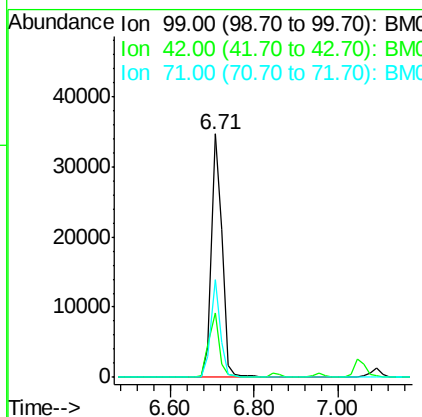
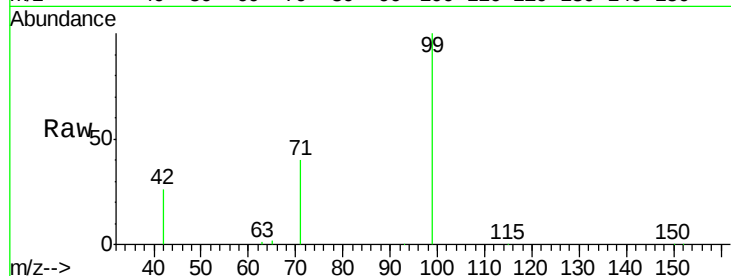
ClientSampleId :

PB83018BS

Tot Ion:	99	Resp:	58252
Ion Ratio	Lower	Upper	
99	100		
42	26.0	20.9	31.3
71	36.0	28.5	42.7

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#6

Naphthalene-d8

Concen: 5.00 ng

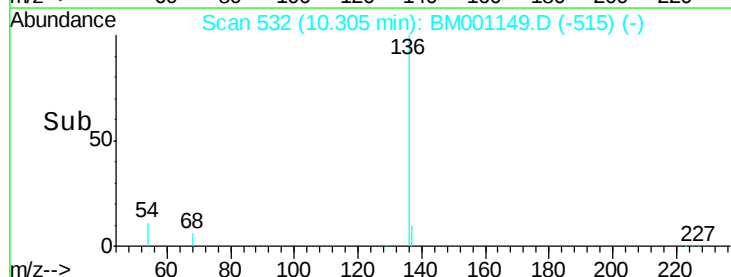
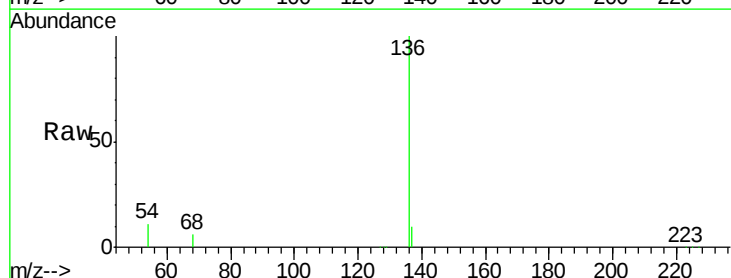
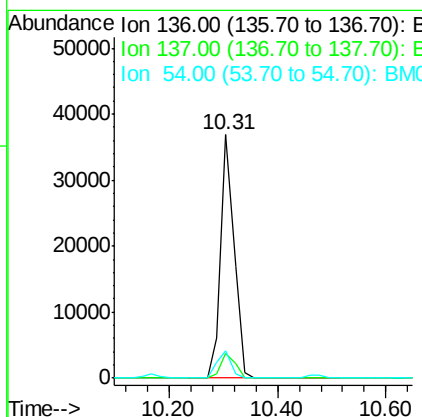
RT: 10.31 min Scan# 532

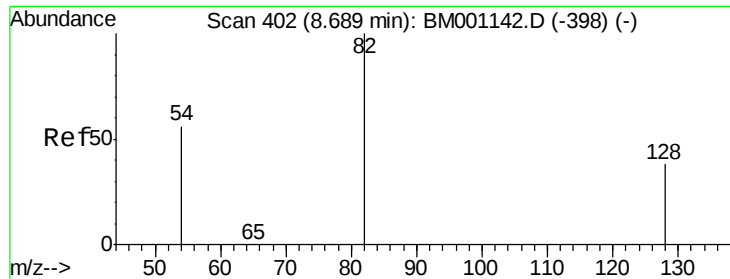
Delta R.T. 0.00 min

Lab File: BM001149.D

Acq: 02 May 2015 02:07

Tgt Ion:	136	Resp:	62441
Ion Ratio	Lower	Upper	
136	100		
137	10.4	8.2	12.4
54	11.0	9.0	13.4





#7

Nitrobenzene-d5

Concen: 11.21 ng

RT: 8.69 min Scan# 402

Delta R.T. 0.00 min

Lab File: BM001149.D

Acq: 02 May 2015 02:07

Instrument :

BNA_M

ClientSampleId :

PB83018BS

Tot Ion: 82 Resp: 39642

Ion Ratio Lower Upper

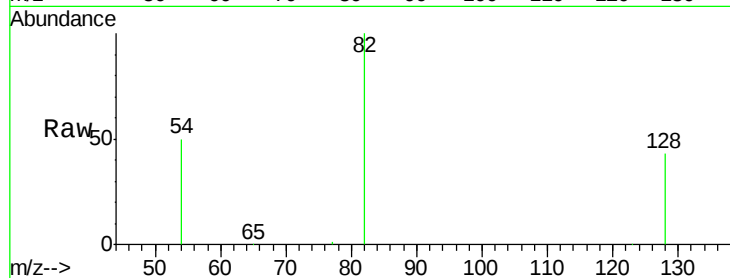
82 100

128 43.3 31.9 47.9

54 49.5 46.2 69.2

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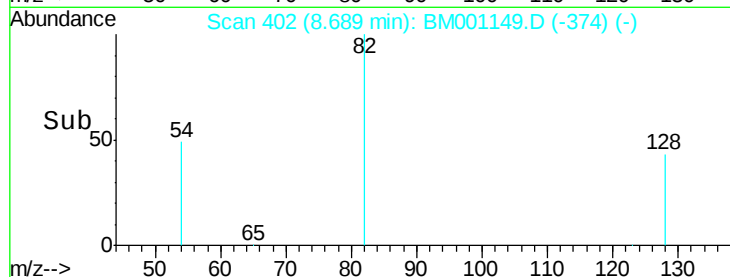


Abundance Ion 82.00 (81.70 to 82.70): BM001142.D (-398) (-)

Ion 128.00 (127.70 to 128.70): BM001142.D (-398) (-)

Ion 54.00 (53.70 to 54.70): BM001142.D (-398) (-)

Time-->

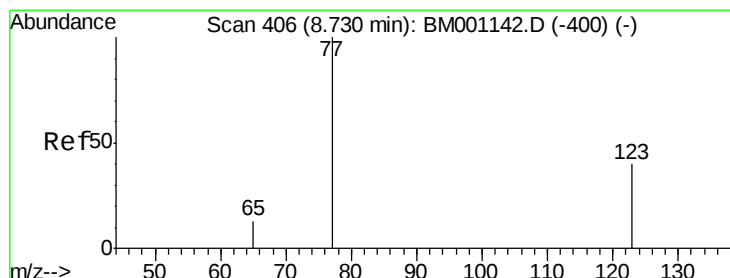


Abundance Ion 82.00 (81.70 to 82.70): BM001149.D (-374) (-)

Ion 128.00 (127.70 to 128.70): BM001149.D (-374) (-)

Ion 54.00 (53.70 to 54.70): BM001149.D (-374) (-)

Time-->



#8

Nitrobenzene

Concen: 9.40 ng

RT: 8.73 min Scan# 406

Delta R.T. 0.00 min

Lab File: BM001149.D

Acq: 02 May 2015 02:07

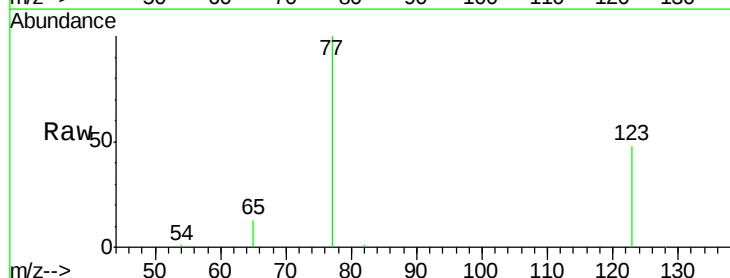
Tgt Ion: 77 Resp: 43946

Ion Ratio Lower Upper

77 100

123 43.1 31.0 46.6

65 14.4 10.6 15.8

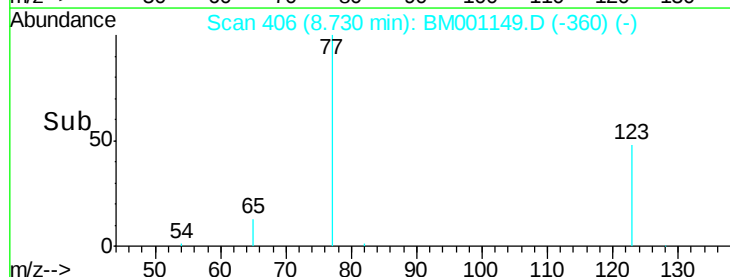


Abundance Ion 77.00 (76.70 to 77.70): BM001142.D (-400) (-)

Ion 123.00 (122.70 to 123.70): BM001142.D (-400) (-)

Ion 65.00 (64.70 to 65.70): BM001142.D (-400) (-)

Time-->

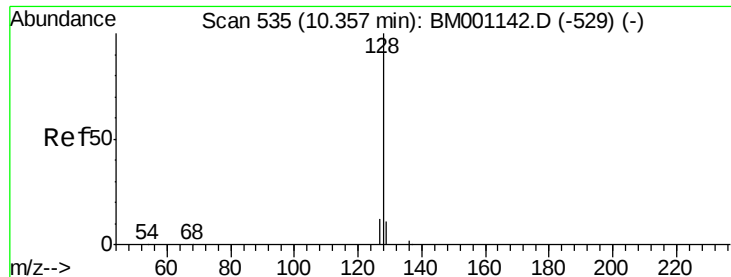


Abundance Ion 77.00 (76.70 to 77.70): BM001149.D (-360) (-)

Ion 123.00 (122.70 to 123.70): BM001149.D (-360) (-)

Ion 65.00 (64.70 to 65.70): BM001149.D (-360) (-)

Time-->



#9

Naphthalene

Concen: 9.22 ng

RT: 10.36 min Scan# 535

Delta R.T. 0.00 min

Lab File: BM001149.D

Acq: 02 May 2015 02:07

Instrument :

BNA_M

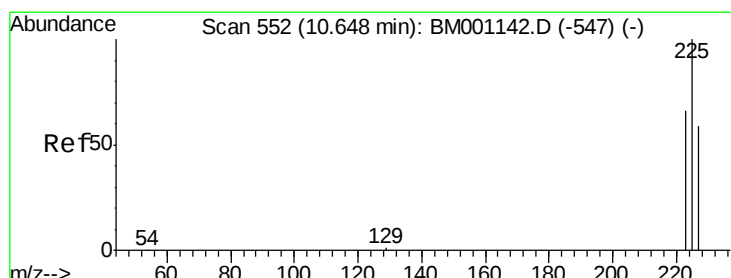
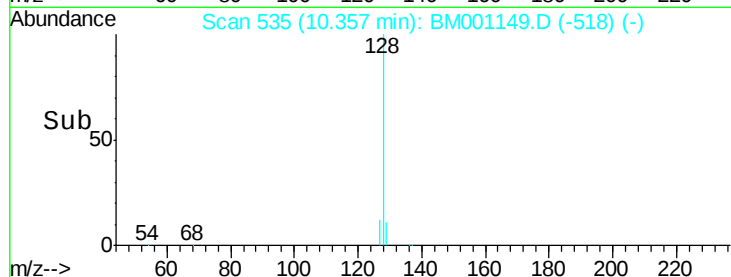
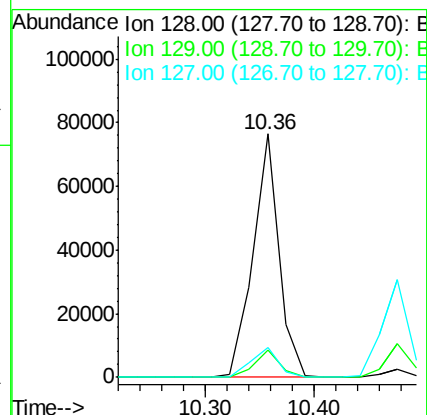
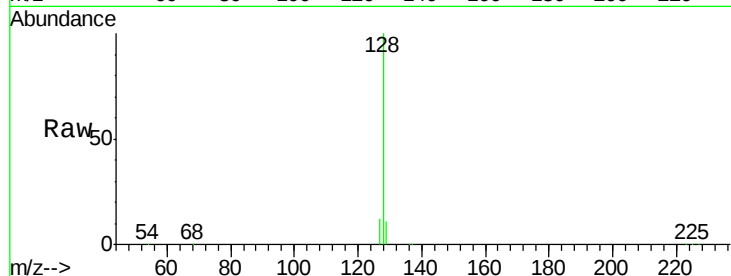
ClientSampleId :

PB83018BS

Tot Ion:	128	Resp:	126523
Ion Ratio	Lower	Upper	
128	100		
129	11.0	9.0	13.6
127	12.3	10.0	15.0

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#10

Hexachlorobutadiene

Concen: 9.04 ng

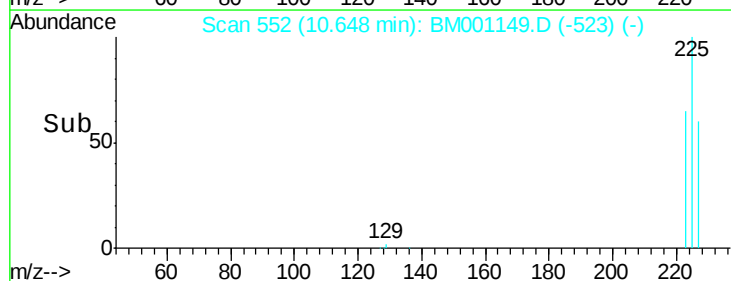
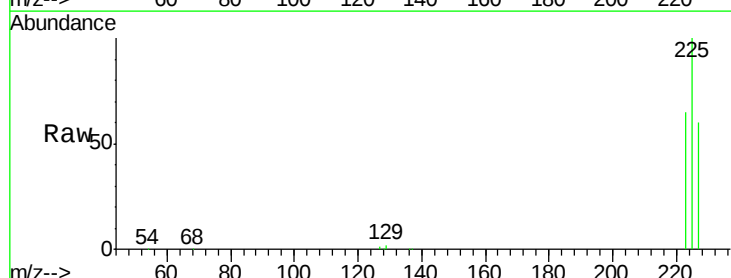
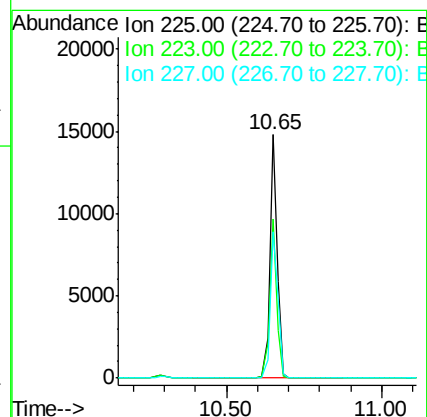
RT: 10.65 min Scan# 552

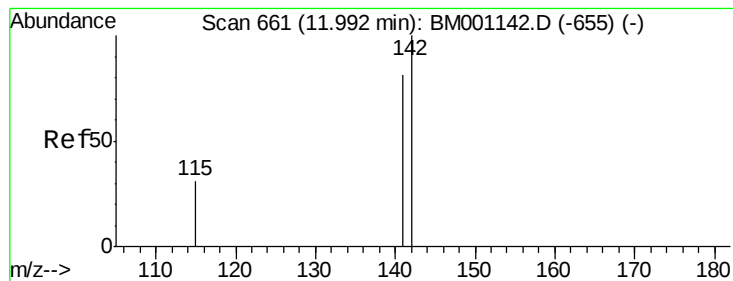
Delta R.T. 0.00 min

Lab File: BM001149.D

Acq: 02 May 2015 02:07

Tgt Ion:	225	Resp:	23931
Ion Ratio	Lower	Upper	
225	100		
223	62.9	50.8	76.2
227	63.7	51.0	76.4





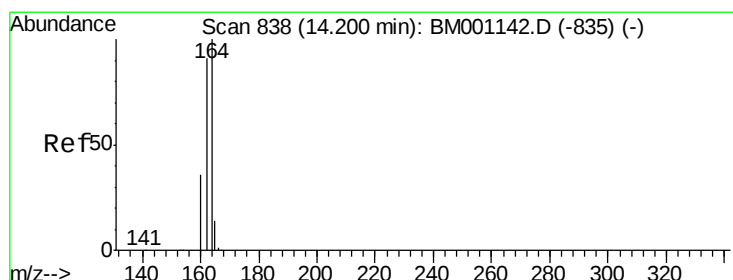
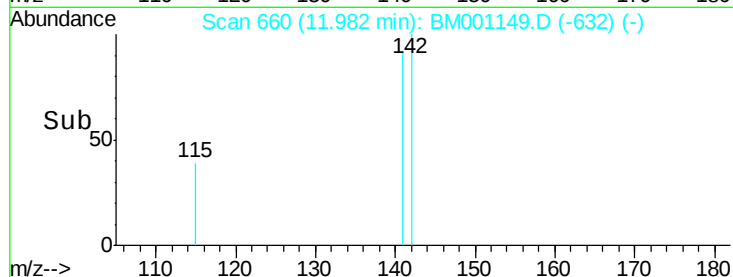
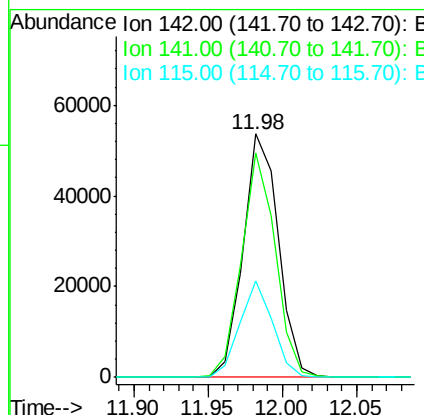
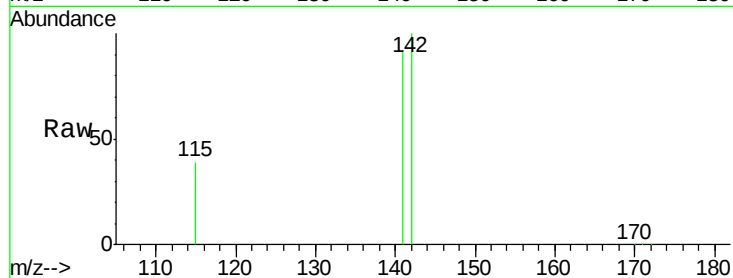
#11
2-Methylnaphthalene
Concen: 9.49 ng/ml
RT: 11.98 min Scan# 660
Delta R.T. -0.01 min
Lab File: BM001149.D
Acq: 02 May 2015 02:07

Instrument :
BNA_M
ClientSampleId :
PB83018BS

Tot Ion	Ratio	Lower	Upper
142	100		
141	92.3	65.1	97.7
115	39.4	25.1	37.7

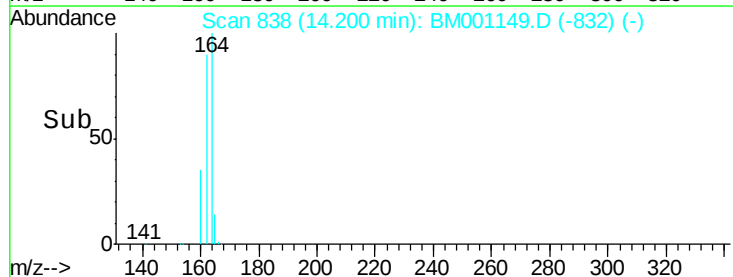
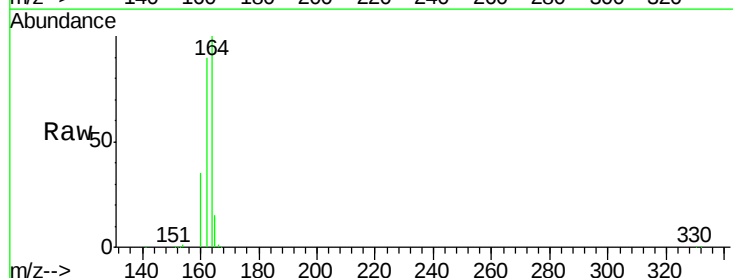
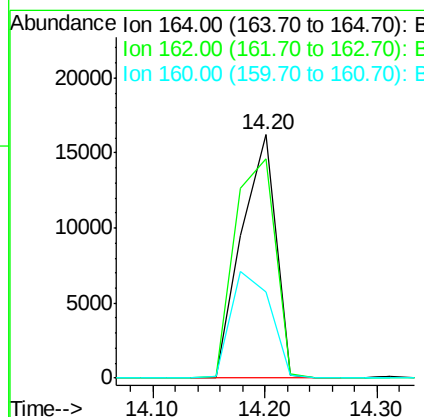
Manual Integrations
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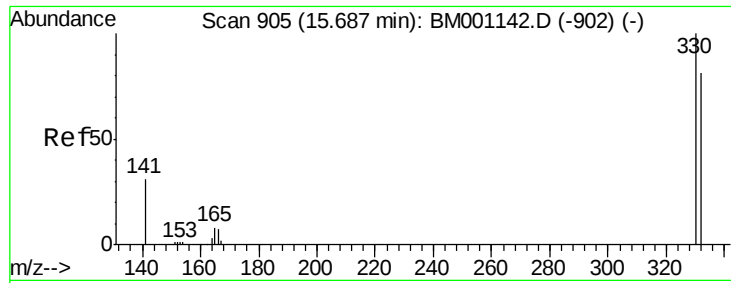
apatel
5/5/2015 8:03:43 AM



#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.20 min Scan# 838
Delta R.T. 0.00 min
Lab File: BM001149.D
Acq: 02 May 2015 02:07

Tgt Ion	Ratio	Lower	Upper
164	100		
162	90.0	72.7	109.1
160	35.1	28.7	43.1





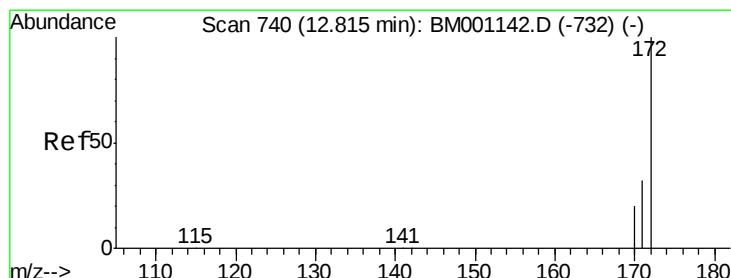
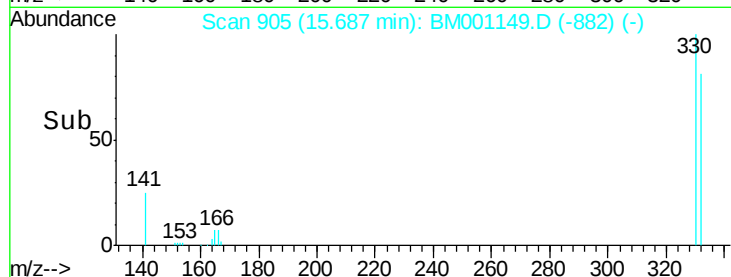
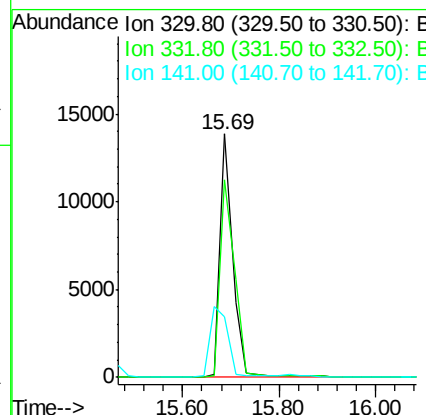
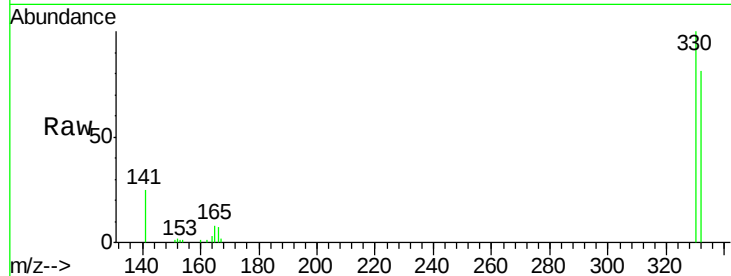
#13
 2,4,6-Tribromophenol
 Concen: 14.97 ng
 RT: 15.69 min Scan# 905
 Delta R.T. 0.00 min
 Lab File: BM001149.D
 Acq: 02 May 2015 02:07

Instrument :
 BNA_M
 ClientSampleId :
 PB83018BS

Tot Ion	Ratio	Lower	Upper
330	100		
332	92.9	74.5	111.7
141	0.0	21.0	31.4

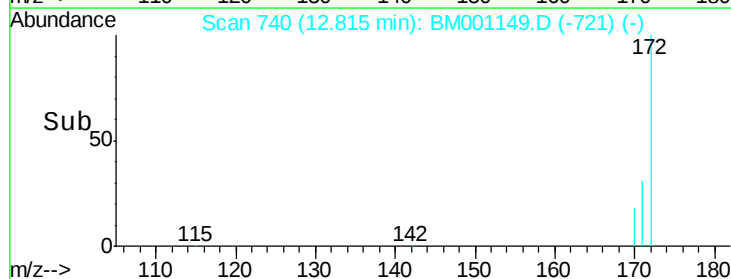
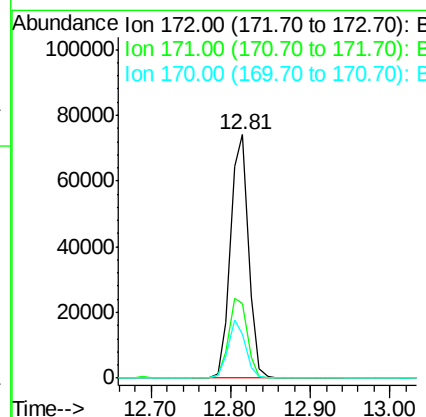
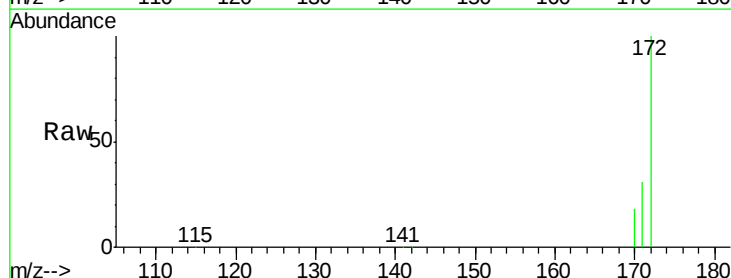
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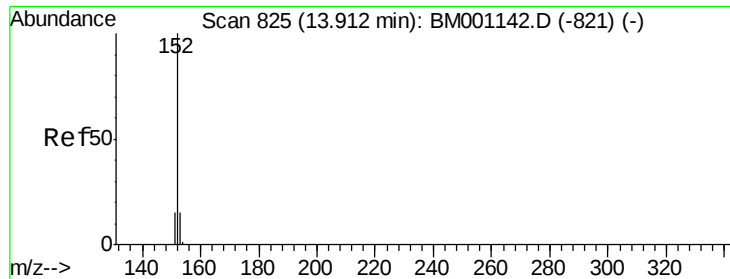
apatel
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#14
 2-Fluorobiphenyl
 Concen: 10.14 ng
 RT: 12.81 min Scan# 740
 Delta R.T. 0.00 min
 Lab File: BM001149.D
 Acq: 02 May 2015 02:07

Tgt Ion	Ratio	Lower	Upper
172	100		
171	30.9	25.8	38.6
170	18.2	16.1	24.1





#15

Acenaphthylene

Concen: 10.31 ng

RT: 13.89 min Scan# 824

Delta R.T. -0.02 min

Lab File: BM001149.D

Acq: 02 May 2015 02:07

Instrument :

BNA_M

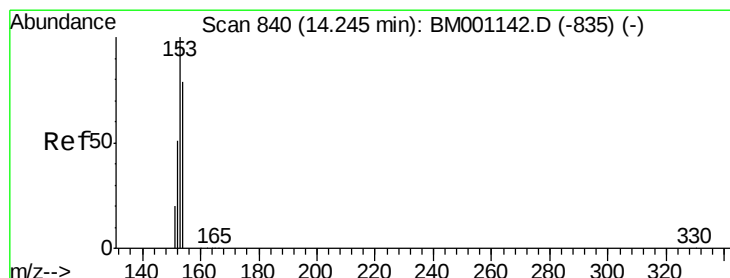
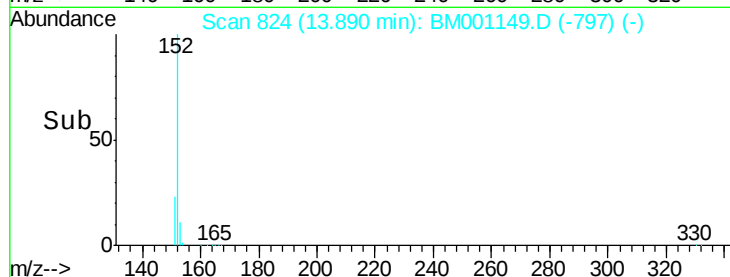
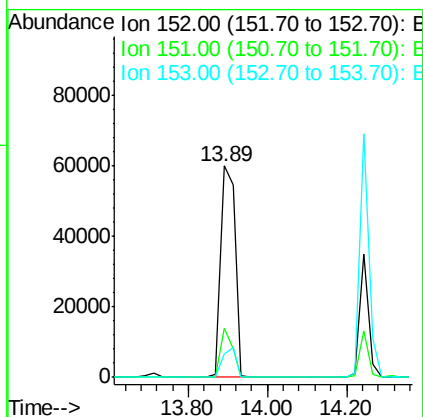
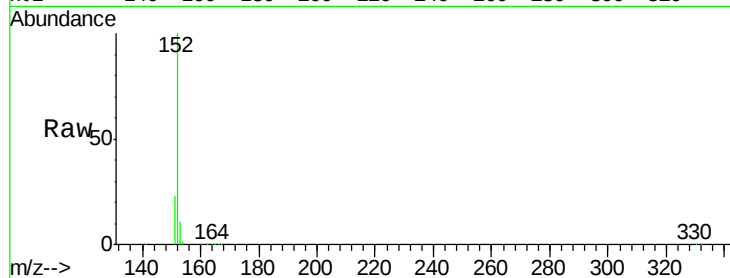
ClientSampleId :

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Tot Ion	Ratio	Lower	Upper
152	100		
151	19.2	0.0	0.0#
153	0.0	10.3	15.5#



#16

Acenaphthene

Concen: 10.32 ng

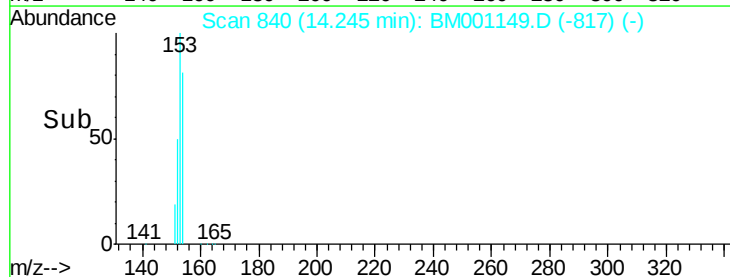
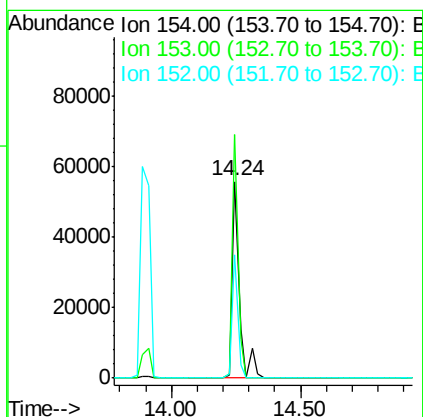
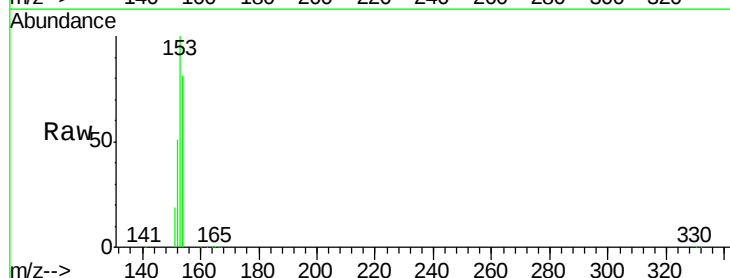
RT: 14.24 min Scan# 840

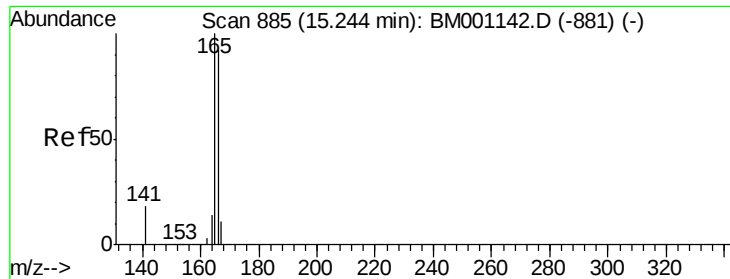
Delta R.T. 0.00 min

Lab File: BM001149.D

Acq: 02 May 2015 02:07

Tgt Ion	Ratio	Lower	Upper
154	100		
153	101.2	90.6	136.0
152	49.6	45.0	67.4





#17

Fluorene

Concen: 10.49 ng

RT: 15.24 min Scan# 885

Delta R.T. 0.00 min

Lab File: BM001149.D

Acq: 02 May 2015 02:07

Instrument :

BNA_M

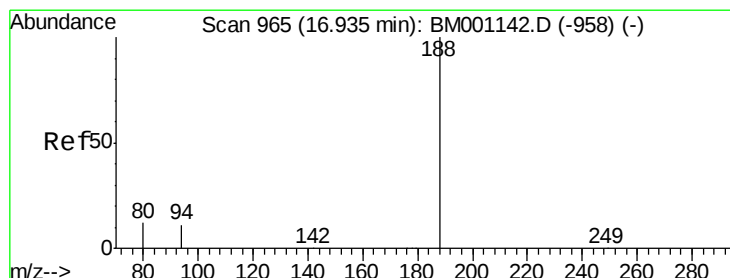
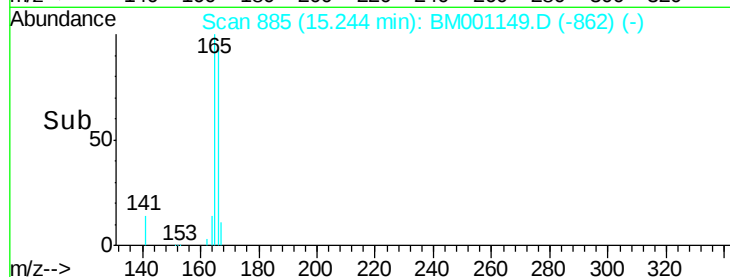
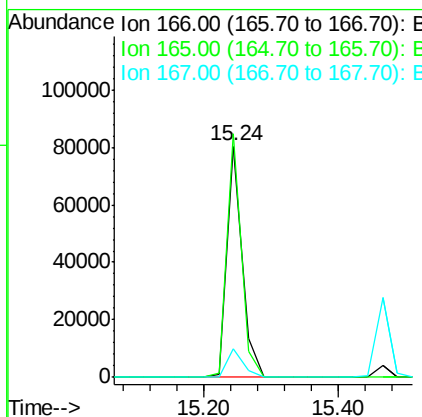
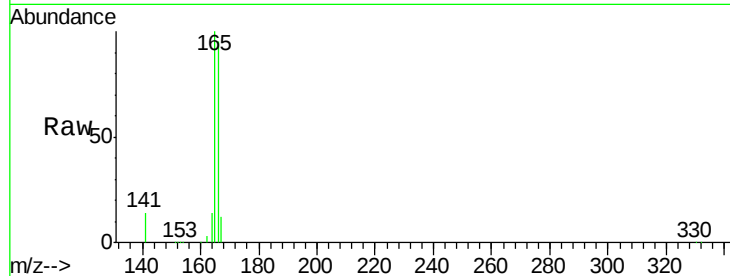
ClientSampleId :

PB83018BS

Tot Ion:	166	Resp:	126481
Ion Ratio	Lower	Upper	
166	100		
165	100.7	81.0	121.6
167	12.9	10.4	15.6

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#18

Phenanthrene-d10

Concen: 5.00 ng

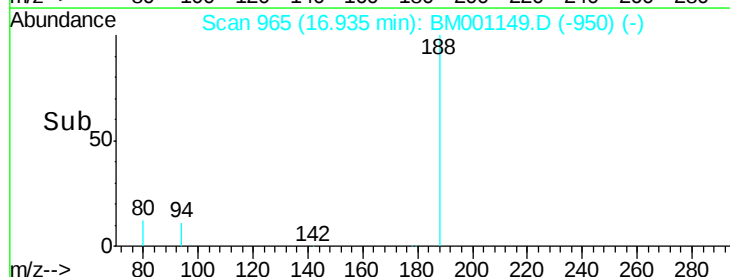
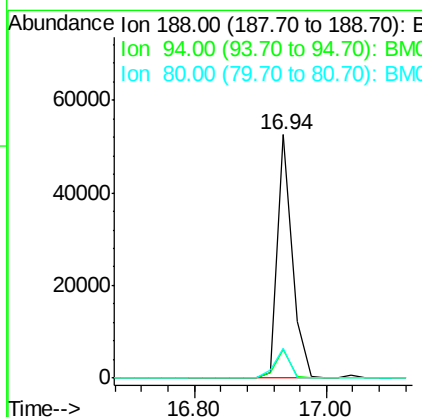
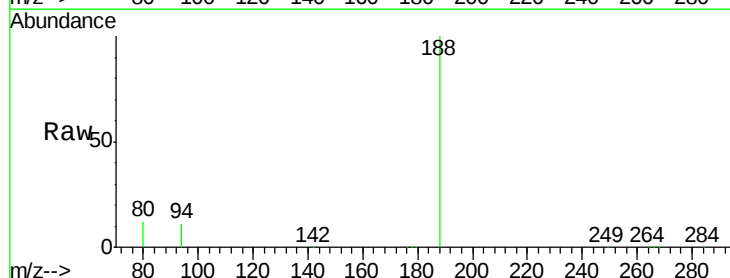
RT: 16.94 min Scan# 965

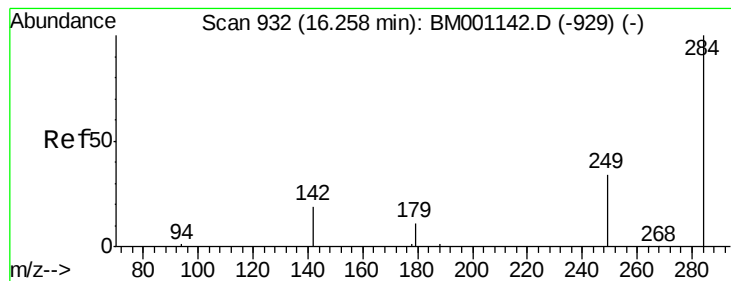
Delta R.T. 0.00 min

Lab File: BM001149.D

Acq: 02 May 2015 02:07

Tgt Ion:	188	Resp:	81677
Ion Ratio	Lower	Upper	
188	100		
94	11.5	9.3	13.9
80	12.1	9.8	14.6





#19

Hexachlorobenzene

Concen: 9.88 ng

RT: 16.26 min Scan# 932

Delta R.T. 0.00 min

Lab File: BM001149.D

Acq: 02 May 2015 02:07

Instrument :

BNA_M

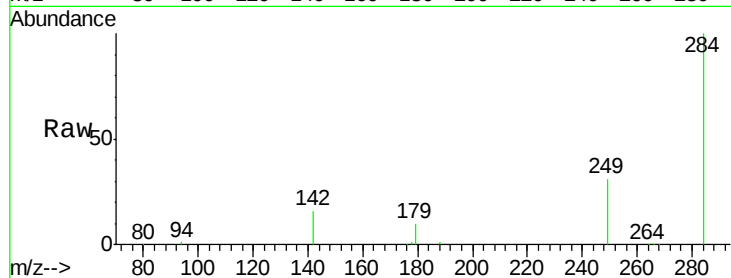
ClientSampleId :

PB83018BS

Tot Ion	Ratio	Lower	Upper
284	100		
142	0.0	0.0	0.0
249	32.1	26.5	39.7

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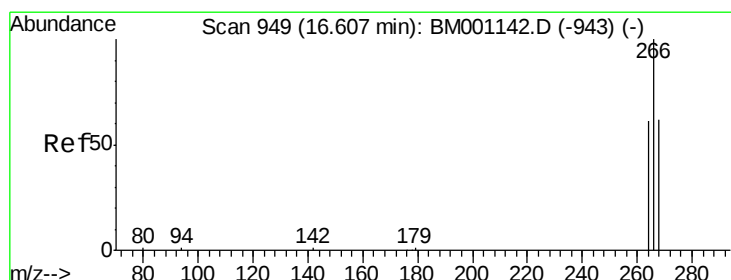
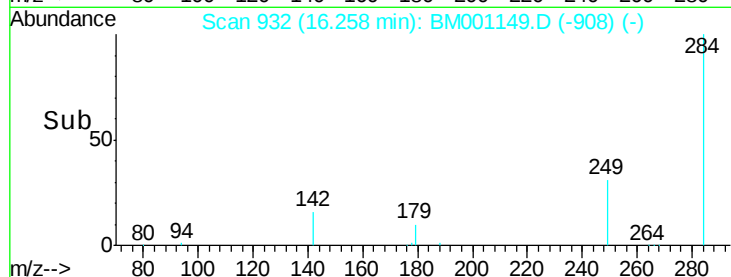
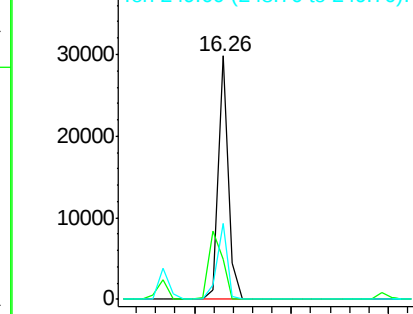
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Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#20

Pentachlorophenol

Concen: 23.47 ng

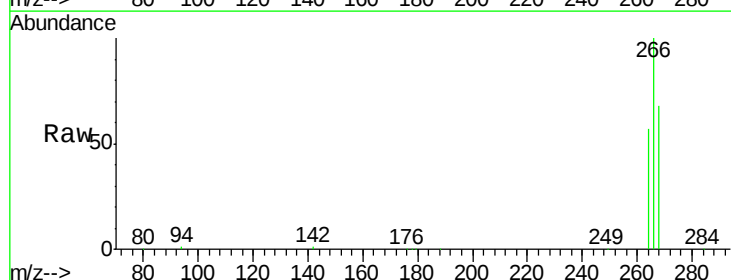
RT: 16.61 min Scan# 949

Delta R.T. 0.00 min

Lab File: BM001149.D

Acq: 02 May 2015 02:07

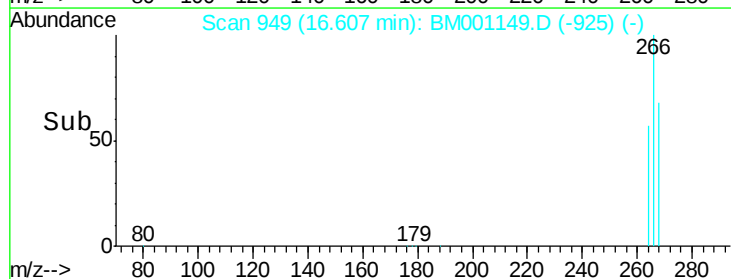
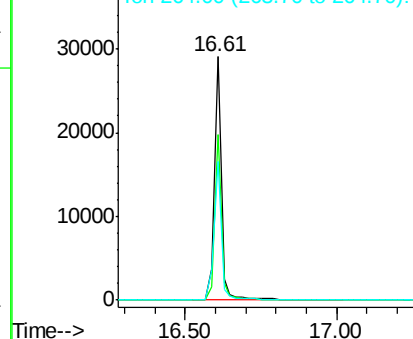
Tgt Ion	Ratio	Lower	Upper
266	100		
268	67.8	52.6	79.0
264	56.8	51.0	76.4

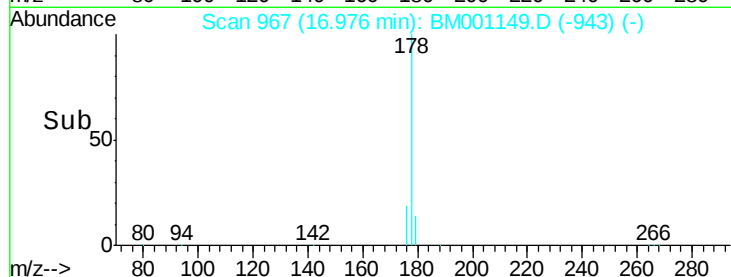
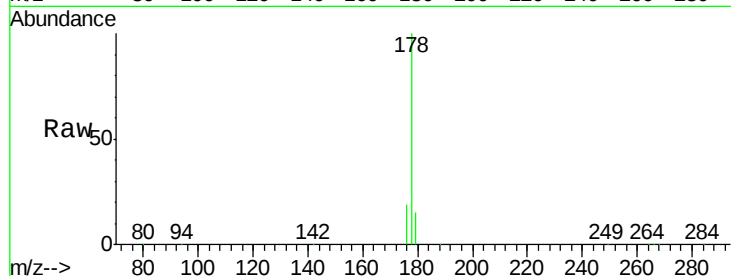
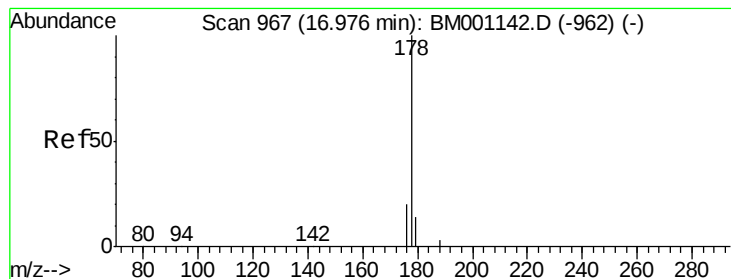


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#21

Phenanthrene

Concen: 9.48 ng

RT: 16.98 min Scan# 967

Delta R.T. 0.00 min

Lab File: BM001149.D

Acq: 02 May 2015 02:07

Tot Ion:	178	Resp:	199416
Ion Ratio	Lower	Upper	
178	100		
176	19.1	15.5	23.3
179	15.0	12.0	18.0

Instrument :

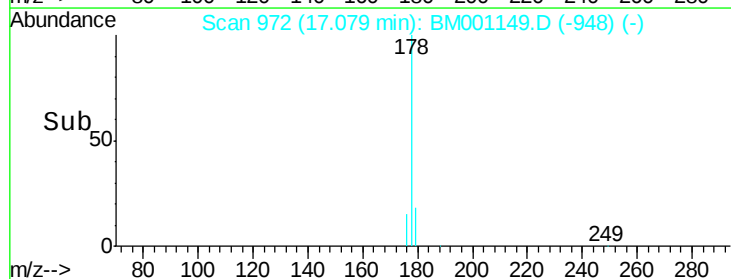
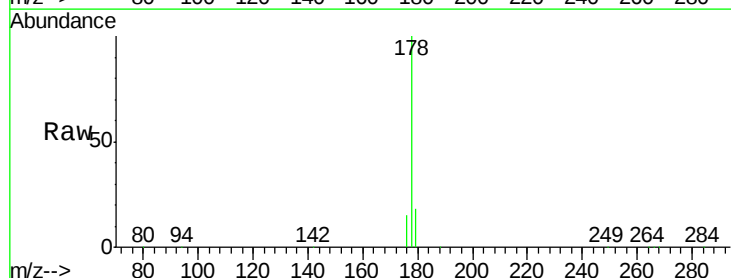
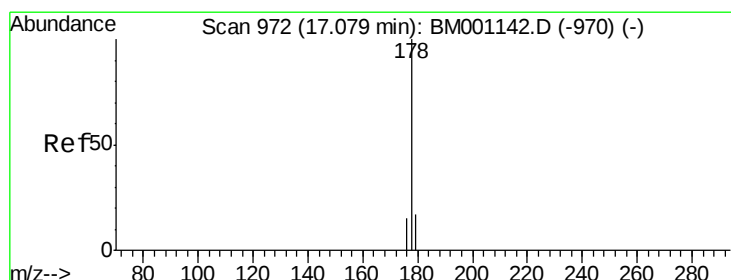
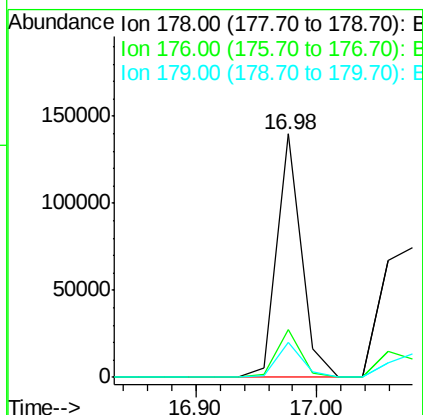
BNA_M

ClientSampleId :

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#22

Anthracene

Concen: 10.24 ng m

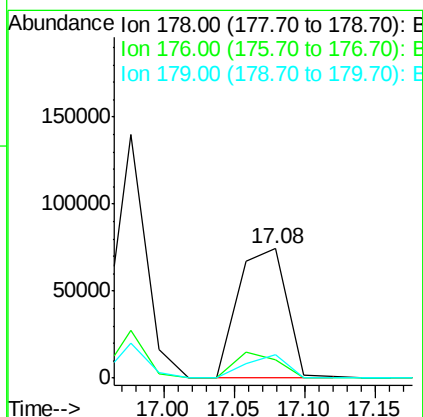
RT: 17.08 min Scan# 972

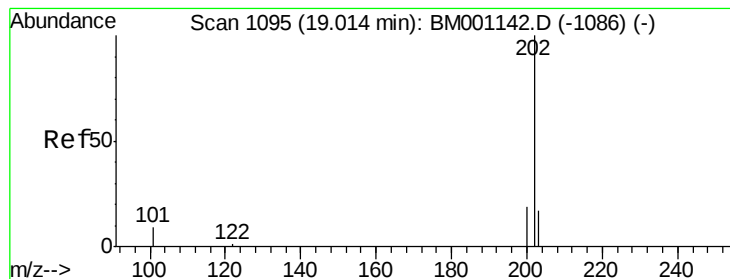
Delta R.T. 0.00 min

Lab File: BM001149.D

Acq: 02 May 2015 02:07

Tgt Ion:	178	Resp:	178041
Ion Ratio	Lower	Upper	
178	100		
176	21.4	14.3	21.5
179	16.8	12.2	18.2





#23

Fluoranthene

Concen: 9.75 ng

RT: 19.01 min Scan# 1095

Delta R.T. 0.00 min

Lab File: BM001149.D

Acq: 02 May 2015 02:07

Instrument :

BNA_M

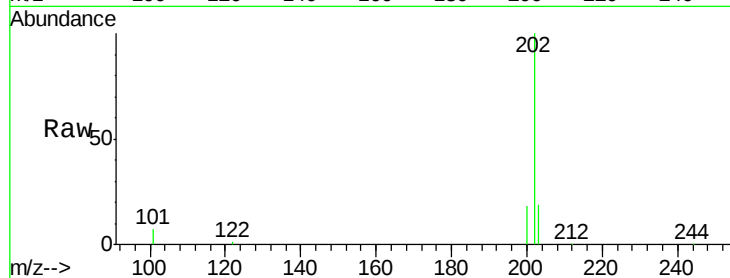
ClientSampleId :

PB83018BS

Tot Ion:	202	Resp:	207643
Ion Ratio	Lower	Upper	
202	100		
101	11.5	9.3	13.9
203	17.4	13.7	20.5

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Abundance Ion 202.00 (201.70 to 202.70): E
200000
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

19.01

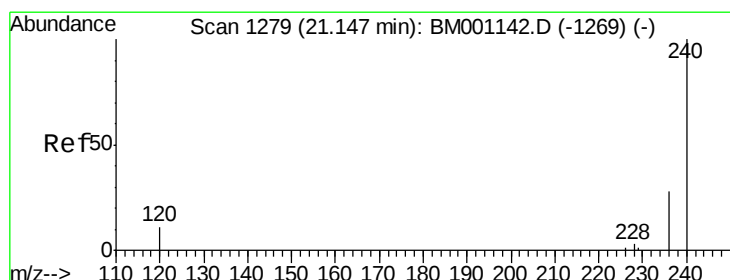
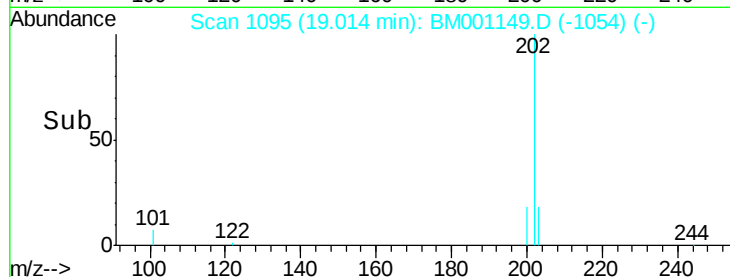
150000

100000

50000

0

Time-->



#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.15 min Scan# 1279

Delta R.T. 0.00 min

Lab File: BM001149.D

Acq: 02 May 2015 02:07

Tgt Ion:	240	Resp:	60557
Ion Ratio	Lower	Upper	
240	100		
120	7.6	9.2	13.8#
236	26.6	22.4	33.6

Abundance Ion 240.00 (239.70 to 240.70): E
60000
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

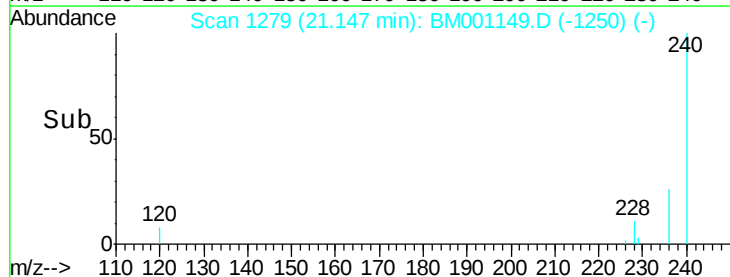
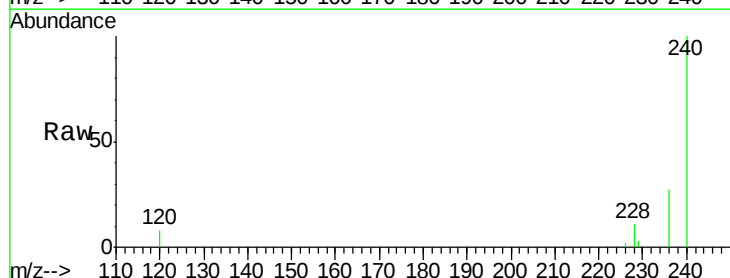
21.15

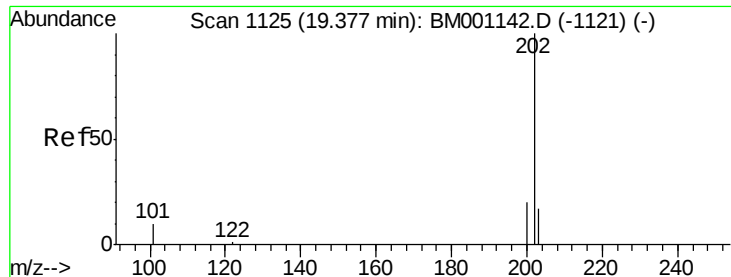
40000

20000

0

Time-->





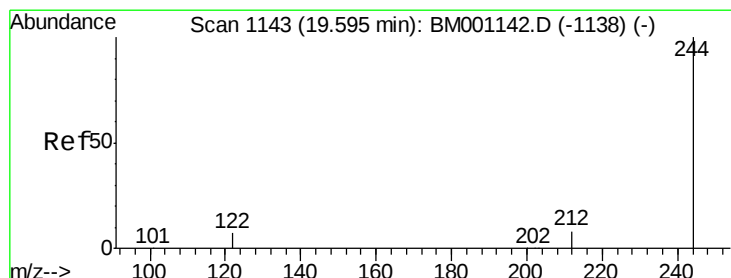
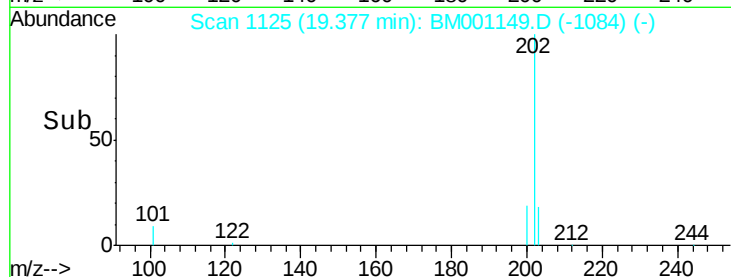
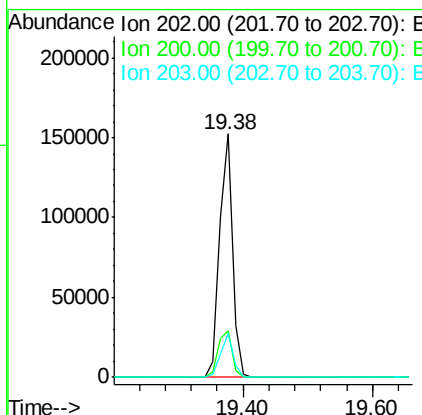
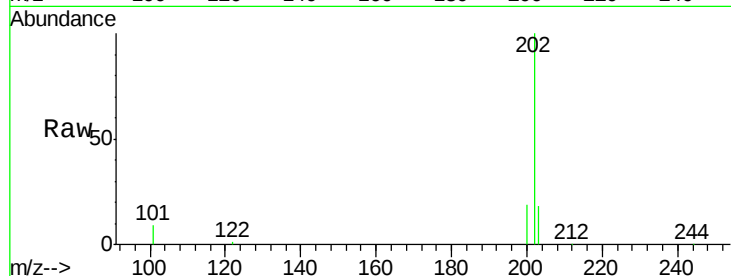
#25
Pvrene
Concen: 11.45 ng
RT: 19.38 min Scan# 1125
Delta R.T. 0.00 min
Lab File: BM001149.D
Acq: 02 May 2015 02:07

Instrument :
BNA_M
ClientSampleId :
PB83018BS

Tot Ion	Ratio	Resp	Lower	Upper
202	100	216673		
200	20.6		16.4	24.6
203	17.8		13.8	20.6

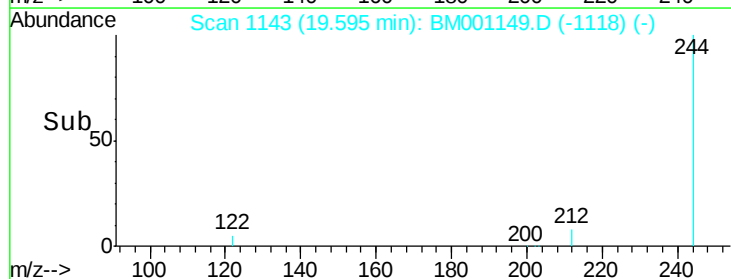
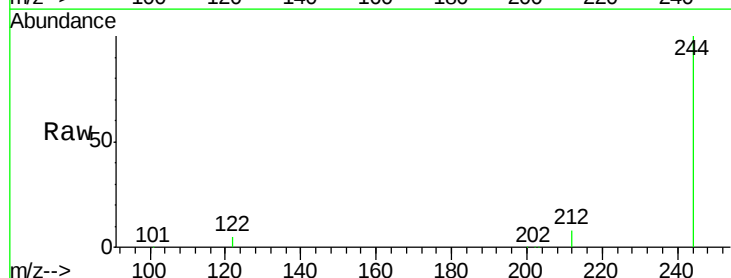
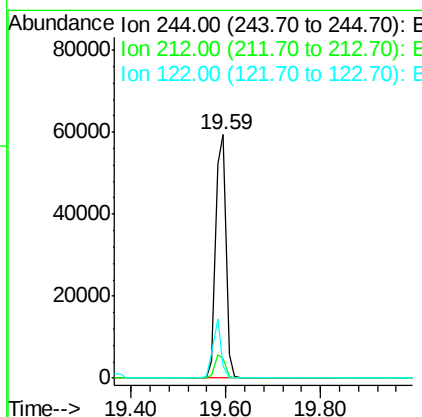
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#26
Terphenyl-d14
Concen: 10.66 ng
RT: 19.59 min Scan# 1143
Delta R.T. 0.00 min
Lab File: BM001149.D
Acq: 02 May 2015 02:07

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	89014		
212	8.2		7.1	10.7
122	5.0		6.2	9.4#





#27

Benzo(a)anthracene

Concen: 10.08 ng

RT: 21.13 min Scan# 1277

Delta R.T. 0.00 min

Lab File: BM001149.D

Acq: 02 May 2015 02:07

Instrument :

BNA_M

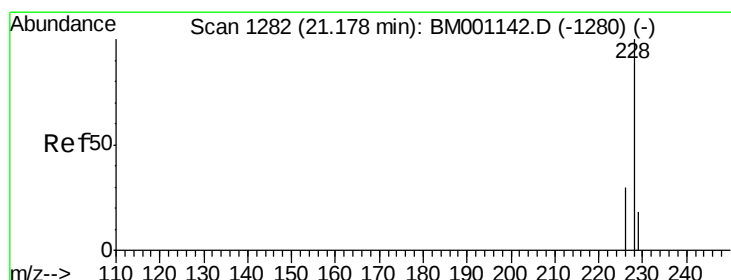
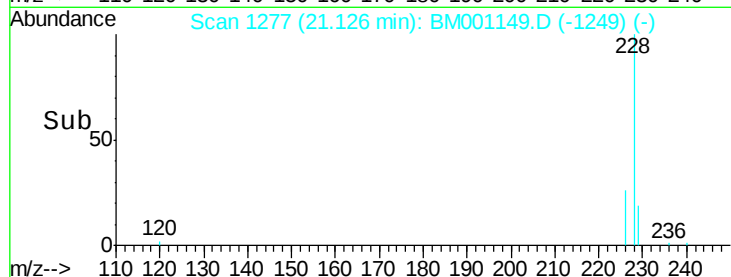
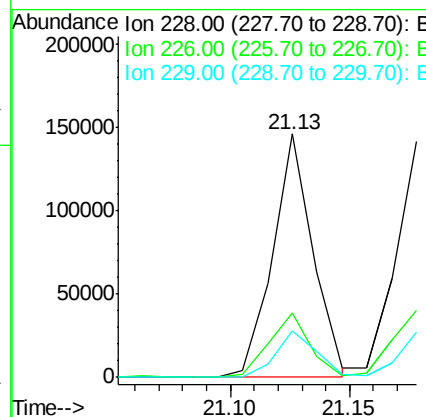
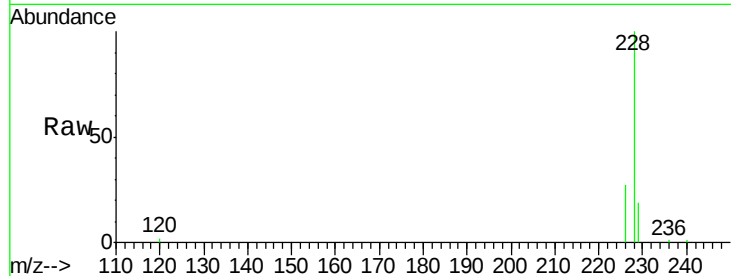
ClientSampleId :

PB83018BS

Tot Ion:	228	Resp:	172061
Ion Ratio	Lower	Upper	
228	100		
226	26.5	22.8	34.2
229	18.9	14.4	21.6

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#28

Chrysene

Concen: 9.90 ng

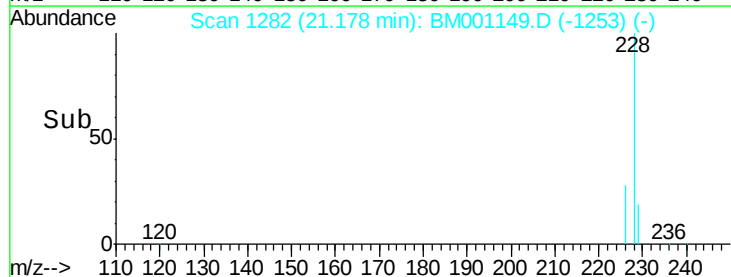
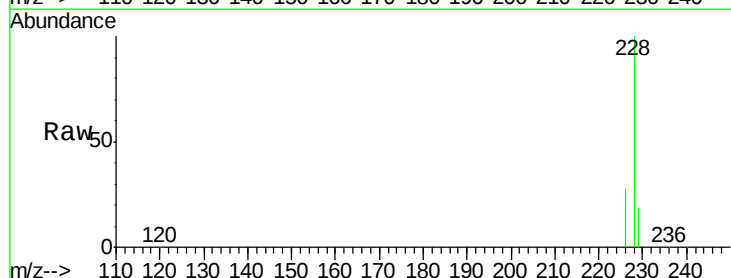
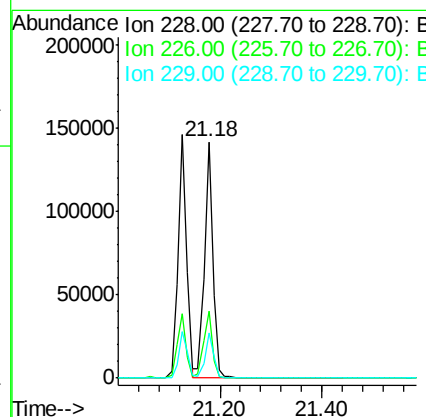
RT: 21.18 min Scan# 1282

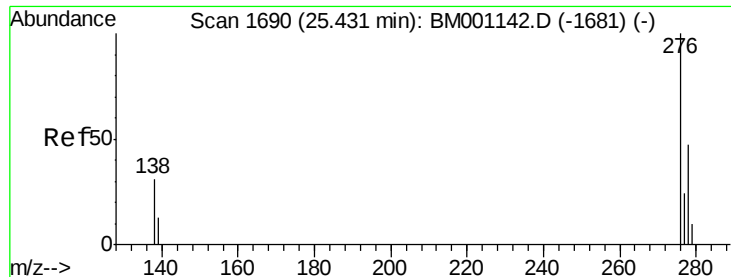
Delta R.T. 0.00 min

Lab File: BM001149.D

Acq: 02 May 2015 02:07

Tgt Ion:	228	Resp:	165844
Ion Ratio	Lower	Upper	
228	100		
226	28.4	24.4	36.6
229	19.1	14.3	21.5





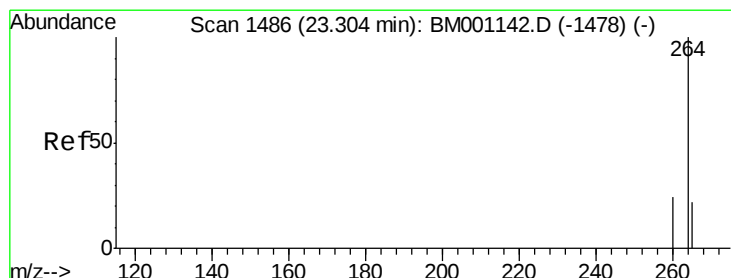
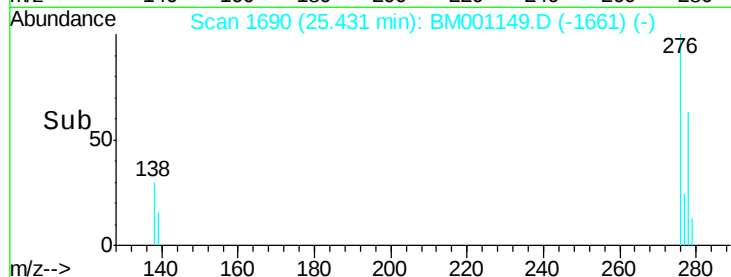
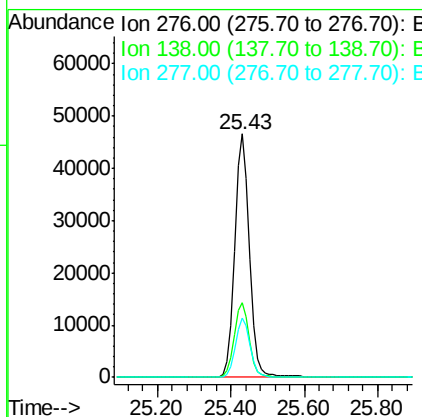
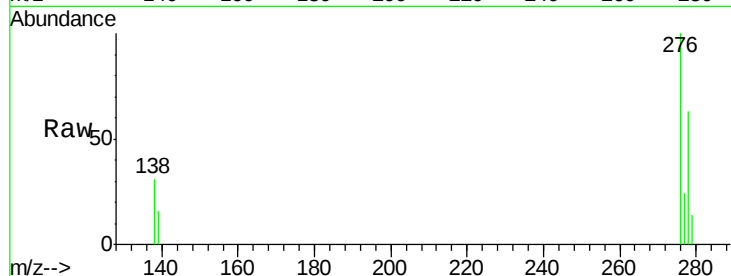
#29
Indeno(1,2,3-cd)pyrene
Concen: 8.36 ng
RT: 25.43 min Scan# 1690
Delta R.T. 0.00 min
Lab File: BM001149.D
Acq: 02 May 2015 02:07

Instrument :
BNA_M
ClientSampleId :
PB83018BS

Tot Ion	Ratio	Lower	Upper
276	100		
138	31.3	24.2	36.4
277	24.4	19.8	29.6

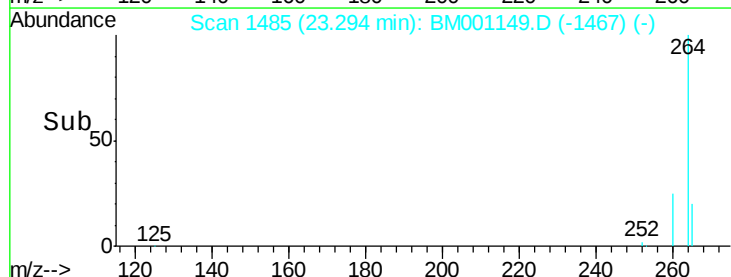
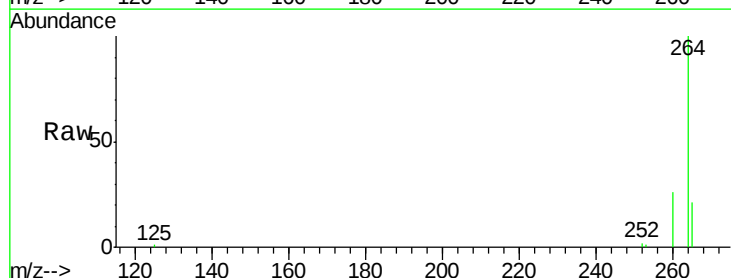
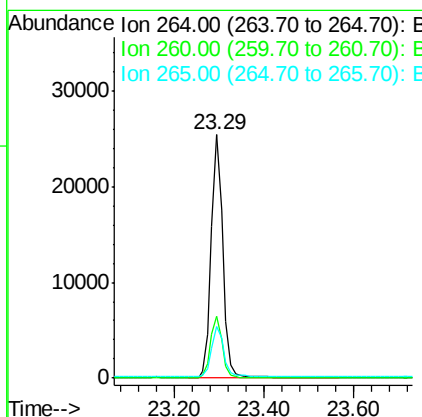
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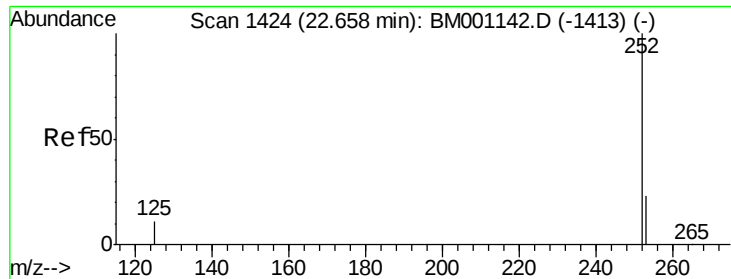
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#30
Perylene-d12
Concen: 5.00 ng
RT: 23.29 min Scan# 1485
Delta R.T. -0.01 min
Lab File: BM001149.D
Acq: 02 May 2015 02:07

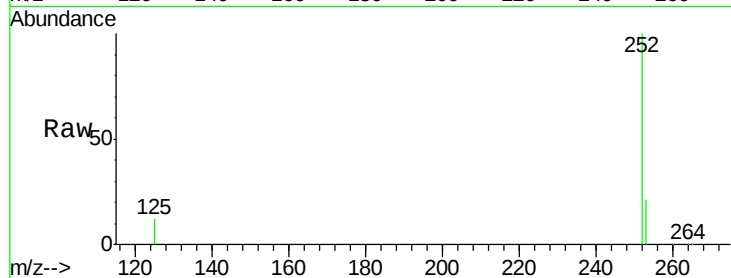
Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.6	18.9	28.3
265	21.1	18.1	27.1





#31
Benzo(b)fluoranthene
Concen: 9.96 ng
RT: 22.65 min Scan# 1423
Delta R.T. -0.01 min
Lab File: BM001149.D
Acq: 02 May 2015 02:07

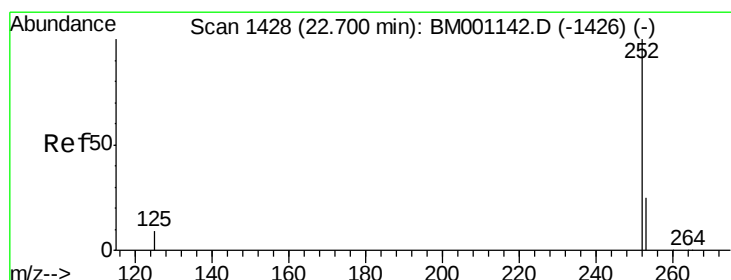
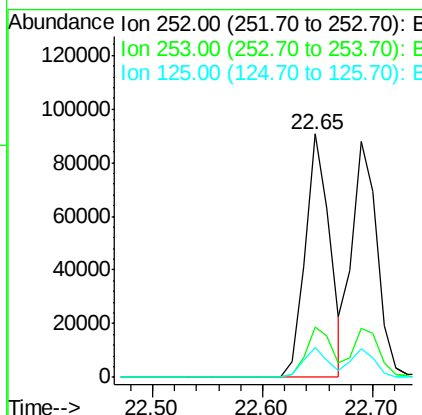
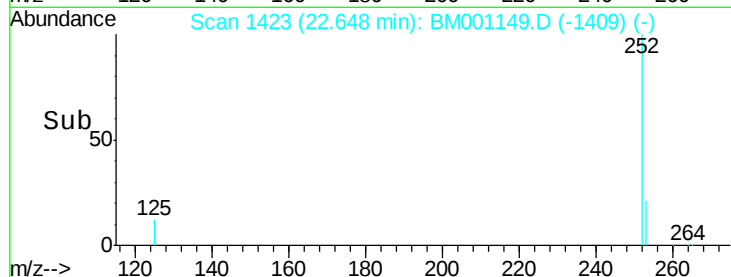
Instrument :
BNA_M
ClientSampleId :
PB83018BS



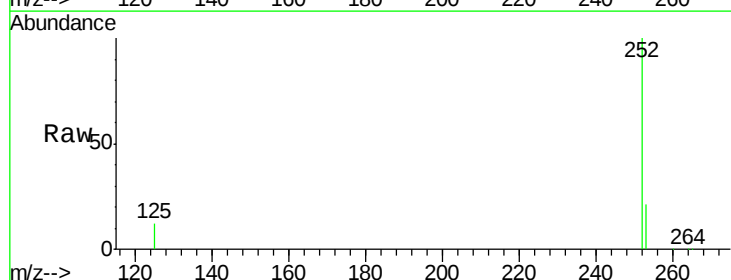
Tot Ion	Ratio	Lower	Upper
252	100		
253	20.7	19.0	28.4
125	12.4	9.1	13.7

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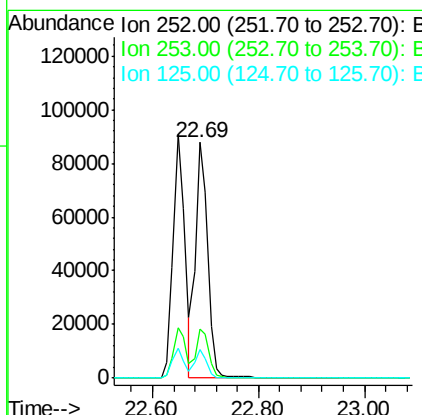
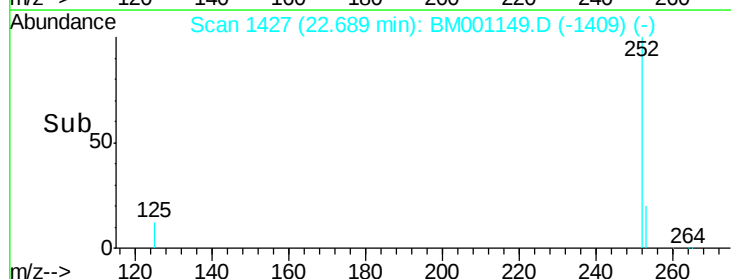
apatel
5/5/2015 8:03:43 AM



#32
Benzo(k)fluoranthene
Concen: 10.64 ng
RT: 22.69 min Scan# 1427
Delta R.T. -0.01 min
Lab File: BM001149.D
Acq: 02 May 2015 02:07



Tgt Ion	Ratio	Lower	Upper
252	100		
253	20.6	19.1	28.7
125	12.4	9.3	13.9





#33

Benzo(a)pyrene

Concen: 10.82 ng

RT: 23.20 min Scan# 1476

Delta R.T. 0.00 min

Lab File: BM001149.D

Acq: 02 May 2015 02:07

Instrument :

BNA_M

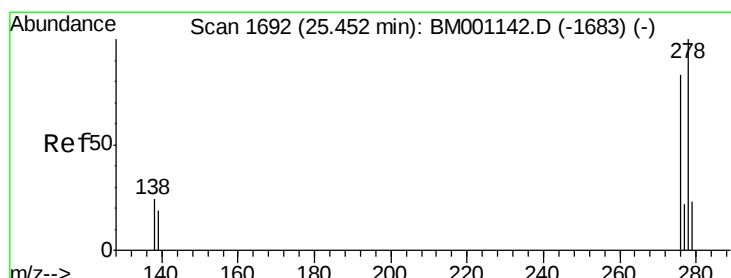
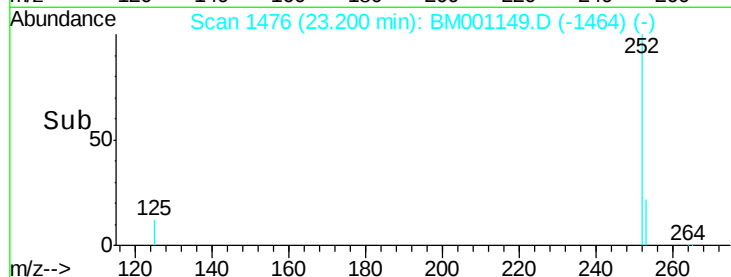
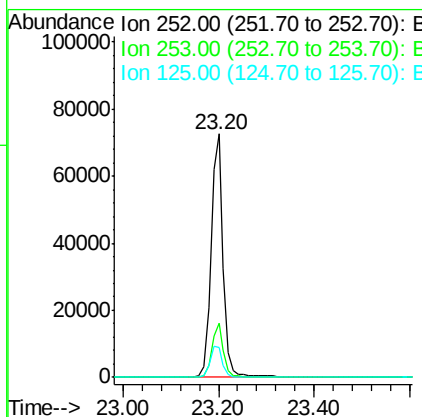
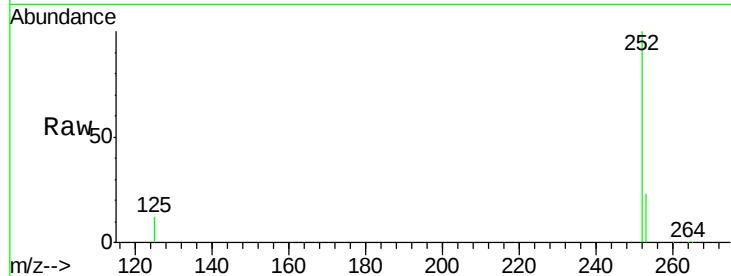
ClientSampleId :

PB83018BS

Tot Ion:	252	Resp:	127990
Ion Ratio	Lower	Upper	
252	100		
253	22.5	18.2	27.2
125	12.3	10.6	16.0

Manual Integrations
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#34

Dibenzo(a,h)anthracene

Concen: 9.87 ng

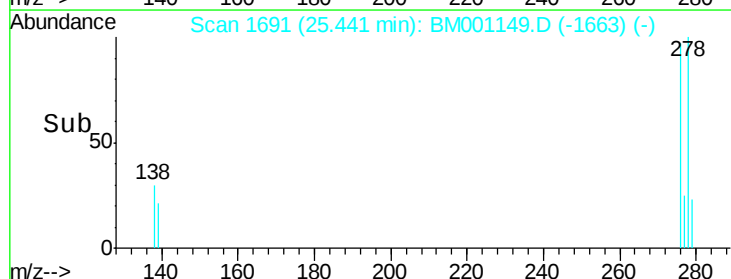
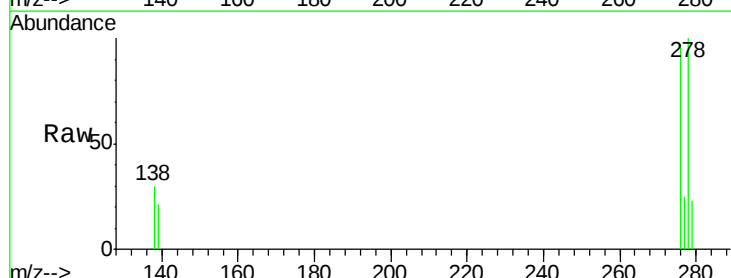
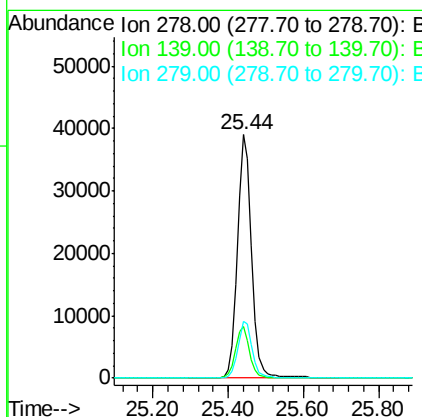
RT: 25.44 min Scan# 1691

Delta R.T. -0.01 min

Lab File: BM001149.D

Acq: 02 May 2015 02:07

Tgt Ion:	278	Resp:	102404
Ion Ratio	Lower	Upper	
278	100		
139	21.3	15.5	23.3
279	23.2	19.7	29.5





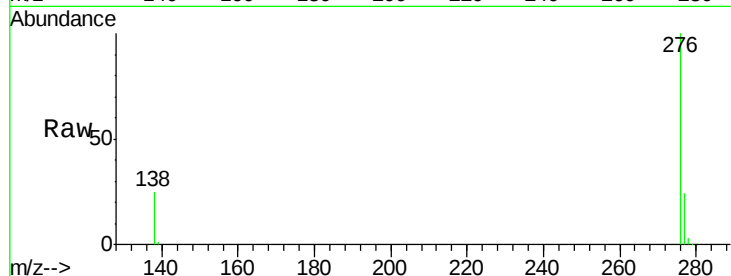
#35
 Benzo(a,h,i)perylene
 Concen: 9.65 ng
 RT: 26.09 min Scan# 1753
 Delta R.T. 0.00 min
 Lab File: BM001149.D
 Acq: 02 May 2015 02:07

Instrument :
 BNA_M
 ClientSampleId :
 PB83018BS

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.0	28.4
138	25.2	21.3	31.9

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

