

Data Path : Z:\HPCHEM1\BNA M\DATA\BM051615\
 Data File : BM001314.D
 Acq On : 15 May 2015 04:30
 Operator : TP/IZ
 Sample : PB83389BSD
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PB83389BSD

Manual Integrations
 APPROVED

mohammad
 5/18/2015 8:37:29 AM

Quant Time: May 15 06:34:58 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SIMPAH-BM051315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 15 06:04:15 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	15364	5.00	ng	0.00
6) Naphthalene-d8	10.22	136	54891	5.00	ng	0.00
12) Acenaphthene-d10	14.12	164	28683	5.00	ng	0.00
18) Phenanthrene-d10	16.85	188	82480	5.00	ng	0.00
24) Chrysene-d12	21.07	240	51108	5.00	ng	0.00
30) Perylene-d12	23.17	264	46853	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.02	112	36240	12.11	ng	0.00
5) Phenol-d6	6.63	99	45602	13.50	ng	0.00
7) Nitrobenzene-d5	8.60	82	28056	8.03	ng	0.00
13) 2,4,6-Tribromophenol	15.60	330	9439	9.59	ng	-0.03
14) 2-Fluorobiphenyl	12.73	172	74310	8.35	ng	0.00
26) Terphenyl-d14	19.51	244	54628	7.96	ng	0.00

Target Compounds						Qvalue
2) 1,4-Dioxane	2.90	88	10346	8.54	ng	# 61
3) n-Nitrosodimethylamine	3.23	42	14223	8.18	ng	# 99
8) Nitrobenzene	8.64	77	31193	8.31	ng	96
9) Naphthalene	10.27	128	91655	7.84	ng	97
10) Hexachlorobutadiene	10.56	225	18150	7.95	ng	99
11) 2-Methylnaphthalene	11.90	142	61468m	8.09	ng	
15) Acenaphthylene	13.83	152	105990	8.98	ng	99
16) Acenaphthene	14.18	154	60863	8.05	ng	96
17) Fluorene	15.14	166	55014	8.03	ng	# 77
19) Hexachlorobenzene	16.18	284	32170	6.06	ng	# 83
20) Pentachlorophenol	16.52	266	35979	22.48	ng	# 86
21) Phenanthrene	16.88	178	116301	9.28	ng	# 96
22) Anthracene	16.98	178	124993	10.23	ng	# 96
23) Fluoranthene	18.93	202	128603	6.54	ng	99
25) Pyrene	19.30	202	138336	8.76	ng	99
27) Benzo(a)anthracene	21.05	228	122711	8.85	ng	98
28) Chrysene	21.10	228	116231	8.27	ng	96
29) Indeno(1,2,3-cd)pyrene	25.26	276	130293	9.12	ng	99
31) Benzo(b)fluoranthene	22.55	252	121126	8.82	ng	98
32) Benzo(k)fluoranthene	22.59	252	111993	8.58	ng	97
33) Benzo(a)pyrene	23.08	252	112474	9.46	ng	96
34) Dibenzo(a,h)anthracene	25.27	278	104461	9.35	ng	98
35) Benzo(g,h,i)perylene	25.89	276	110429	9.00	ng	98

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

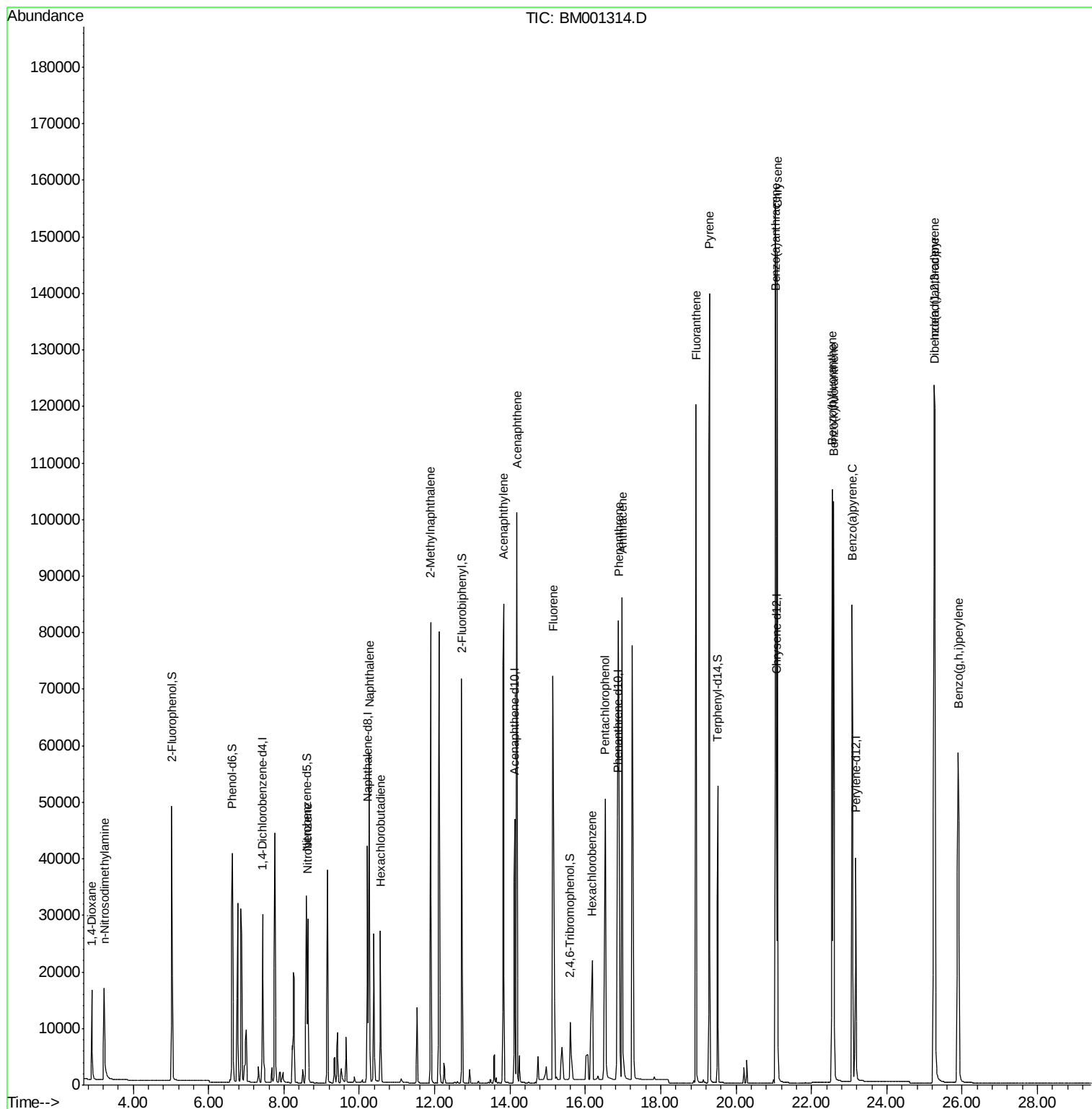
Data Path : Z:\HPCHEM1\BNA M\DATA\BM051615\
Data File : BM001314.D
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Sample : PB83389BSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

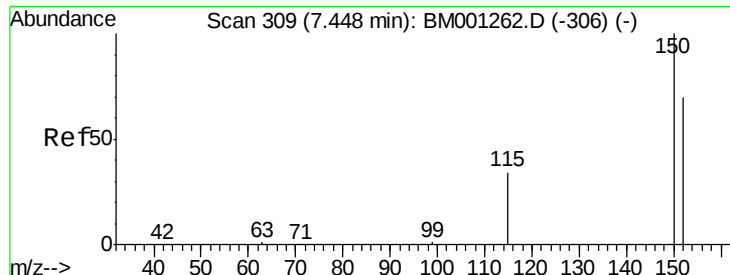
Instrument :
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ClientSampleId :
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Quant Time: May 15 06:34:58 2015
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.43 min Scan# 308

Delta R.T. 0.00 min

Lab File: BM001314.D

Acq: 15 May 2015 04:30

Instrument :

BNA_M

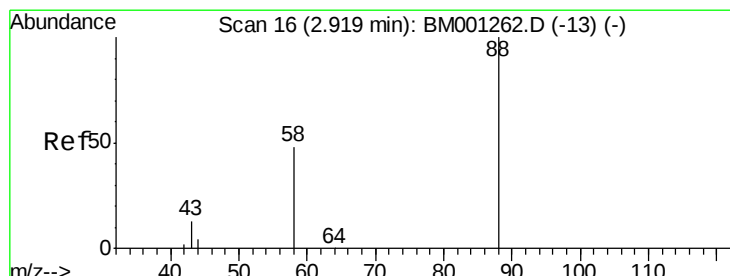
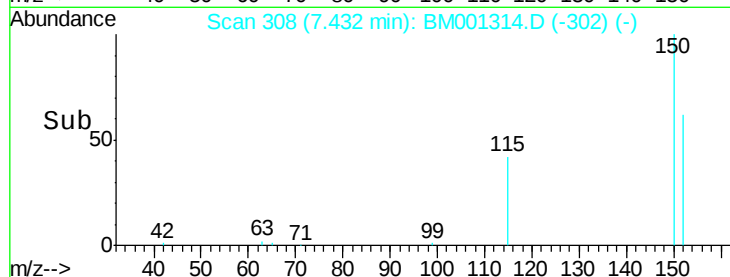
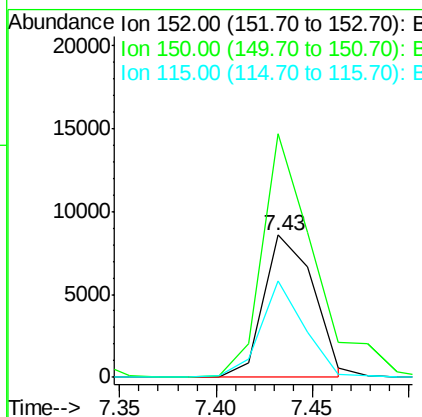
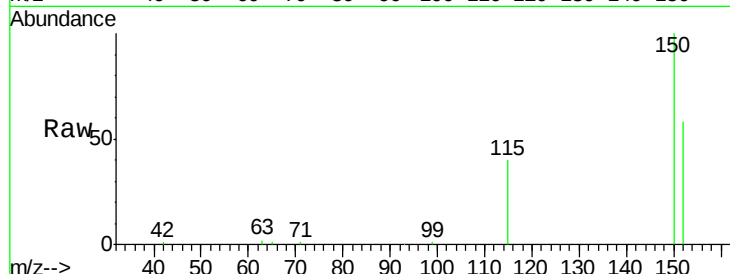
ClientSampleId :

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Tot Ion	Ratio	Lower	Upper
152	100		
150	171.1	114.6	172.0
115	68.2	39.3	58.9#



#2

1,4-Dioxane

Concen: 8.54 ng

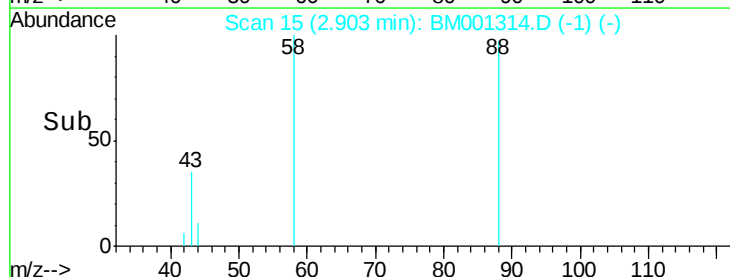
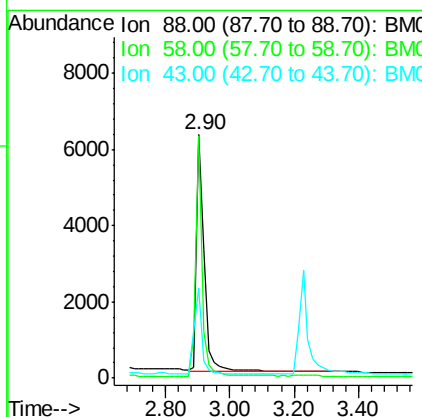
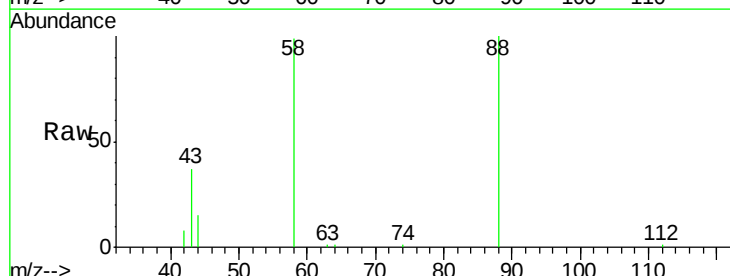
RT: 2.90 min Scan# 15

Delta R.T. -0.02 min

Lab File: BM001314.D

Acq: 15 May 2015 04:30

Tgt Ion	Ratio	Lower	Upper
88	100		
58	81.3	39.0	58.6#
43	35.8	20.2	30.2#





#3

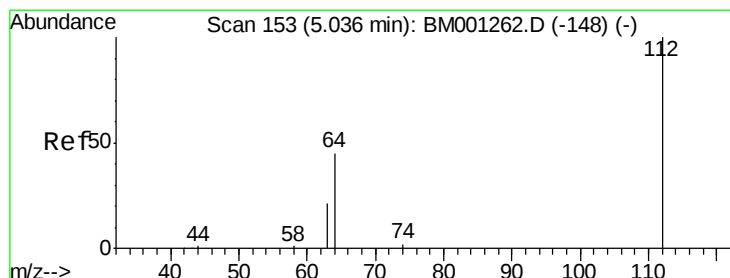
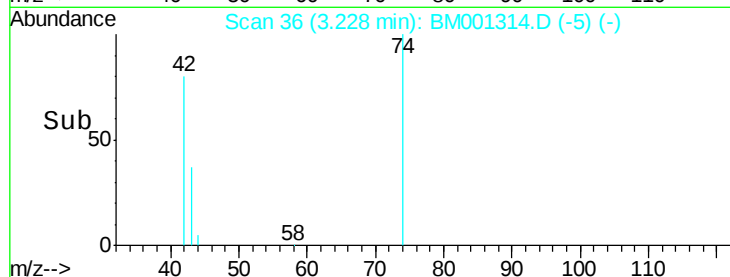
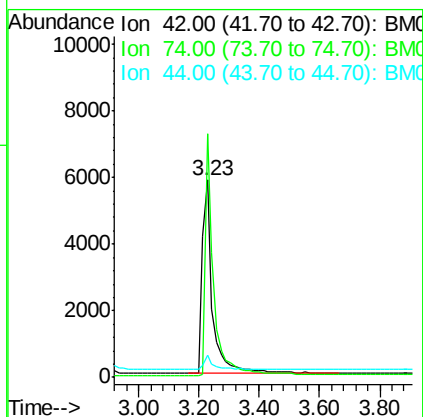
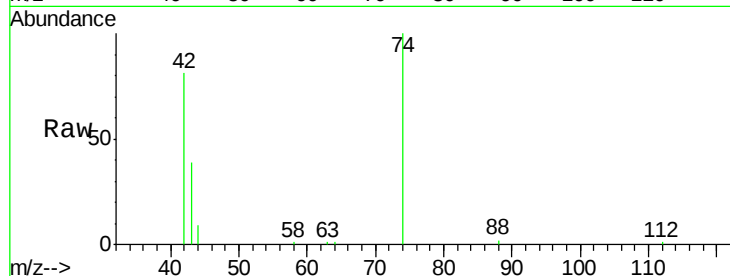
n-Nitrosodimethylamine
Concen: 8.18 ng
RT: 3.23 min Scan# 36
Delta R.T. -0.02 min
Lab File: BM001314.D
Acq: 15 May 2015 04:30

Instrument :
BNA_M
ClientSampleId :
PB83389BSD

Tot Ion	Ratio	Lower	Upper
42	100		
74	102.2	82.1	123.1
44	5.4	3.0	4.4#

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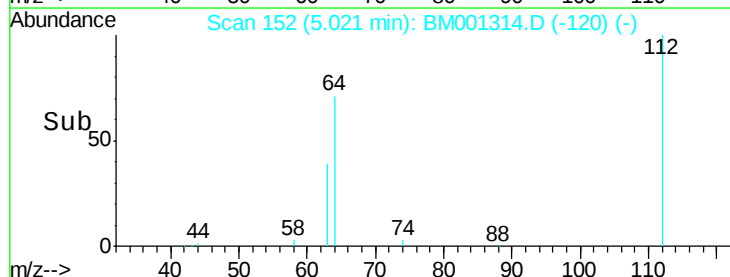
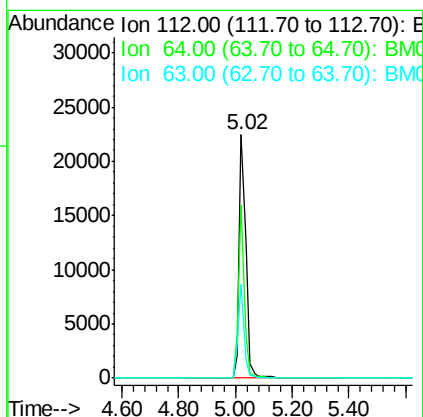
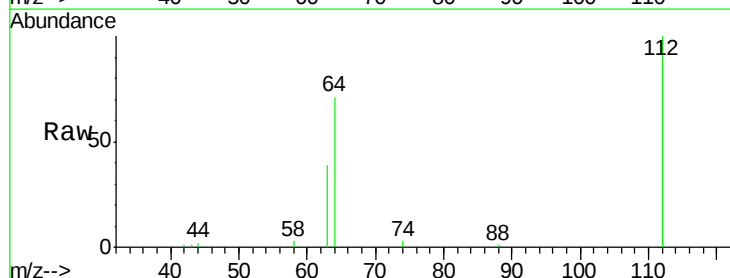
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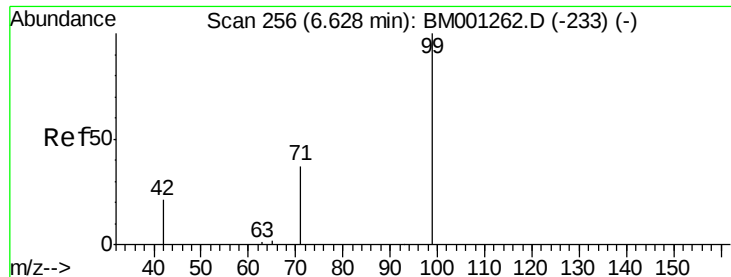


#4

2-Fluorophenol
Concen: 12.11 ng
RT: 5.02 min Scan# 152
Delta R.T. 0.00 min
Lab File: BM001314.D
Acq: 15 May 2015 04:30

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.9	50.8	76.2
63	35.5	28.2	42.4





#5

Phenol-d6

Concen: 13.50 ng

RT: 6.63 min Scan# 256

Delta R.T. 0.00 min

Lab File: BM001314.D

Acq: 15 May 2015 04:30

Instrument :

BNA_M

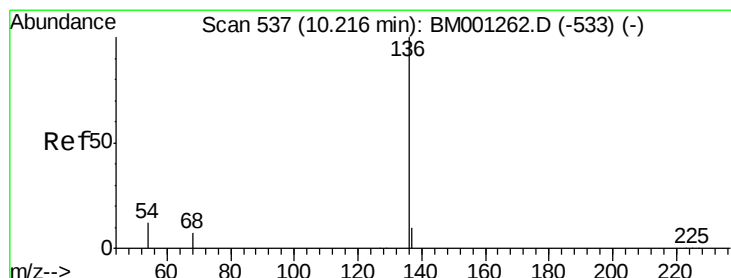
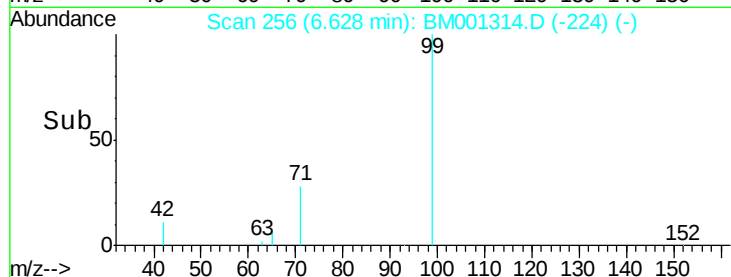
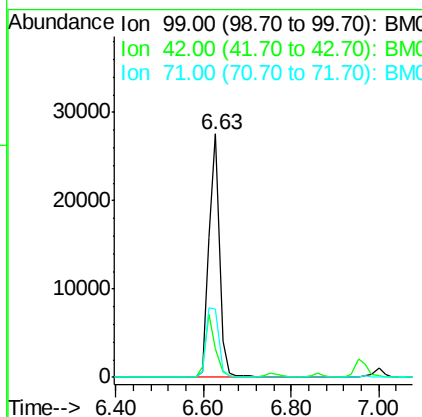
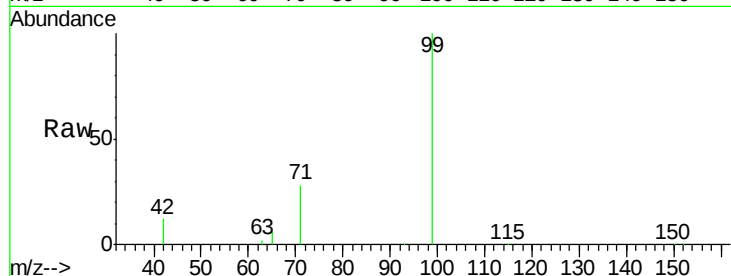
ClientSampleId :

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Tot Ion:	99	Resp:	45602
Ion Ratio	Lower	Upper	
99	100		
42	24.6	19.9	29.9
71	35.0	28.0	42.0

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#6

Naphthalene-d8

Concen: 5.00 ng

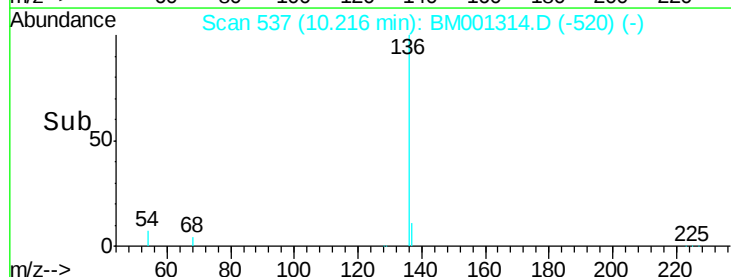
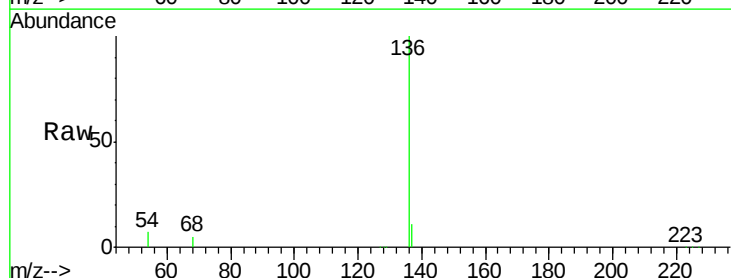
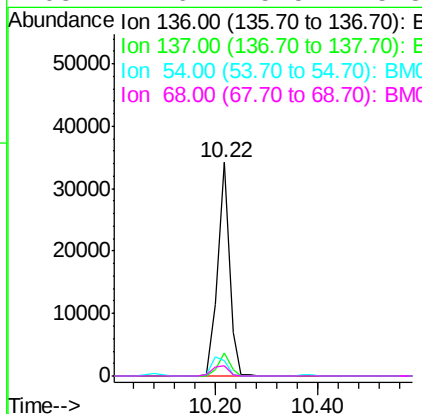
RT: 10.22 min Scan# 537

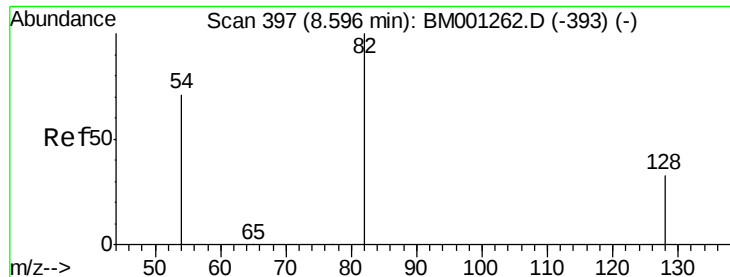
Delta R.T. 0.00 min

Lab File: BM001314.D

Acq: 15 May 2015 04:30

Tgt Ion:	136	Resp:	54891
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.2	12.4
54	7.2	9.5	14.3#
68	4.6	5.5	8.3#





#7

Nitrobenzene-d5

Concen: 8.03 ng

RT: 8.60 min Scan# 397

Delta R.T. 0.00 min

Lab File: BM001314.D

Acq: 15 May 2015 04:30

Instrument :

BNA_M

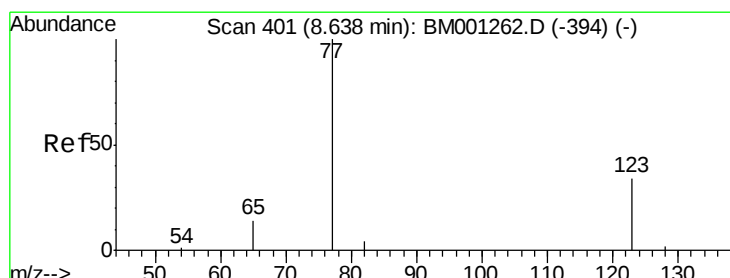
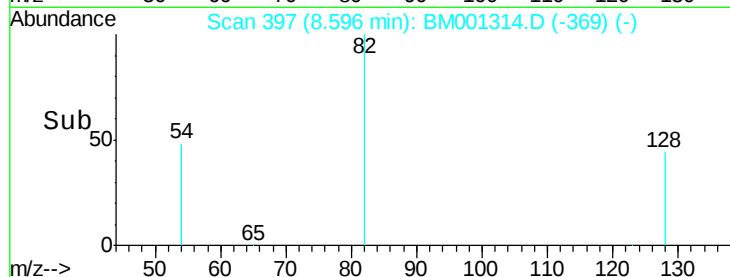
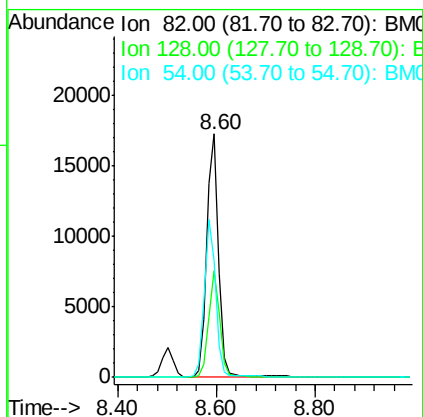
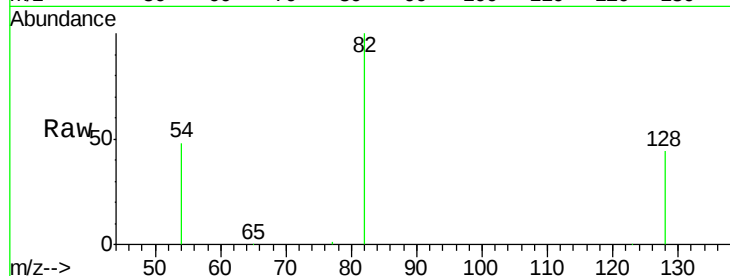
ClientSampleId :

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Tot Ion:	82	Resp:	28056
Ion Ratio	Lower	Upper	
82	100		
128	44.0	28.0	42.0#
54	48.0	57.3	85.9#

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#8

Nitrobenzene

Concen: 8.31 ng

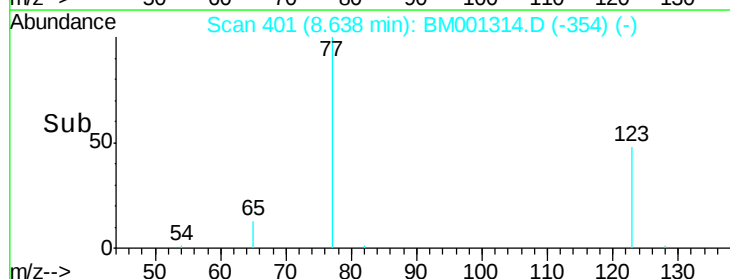
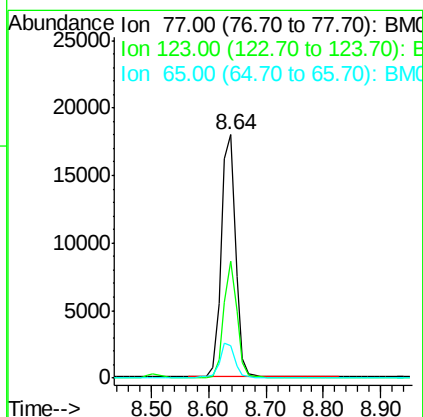
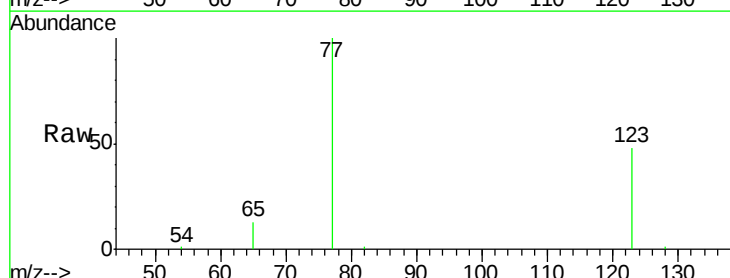
RT: 8.64 min Scan# 401

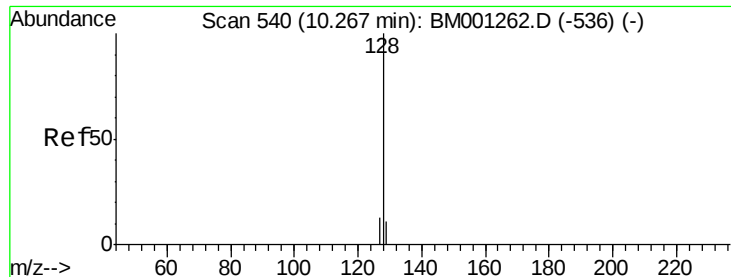
Delta R.T. 0.00 min

Lab File: BM001314.D

Acq: 15 May 2015 04:30

Tgt Ion:	77	Resp:	31193
Ion Ratio	Lower	Upper	
77	100		
123	44.1	33.4	50.2
65	14.4	10.6	15.8





#9

Naphthalene

Concen: 7.84 ng

RT: 10.27 min Scan# 540

Delta R.T. 0.00 min

Lab File: BM001314.D

Acq: 15 May 2015 04:30

Instrument :

BNA_M

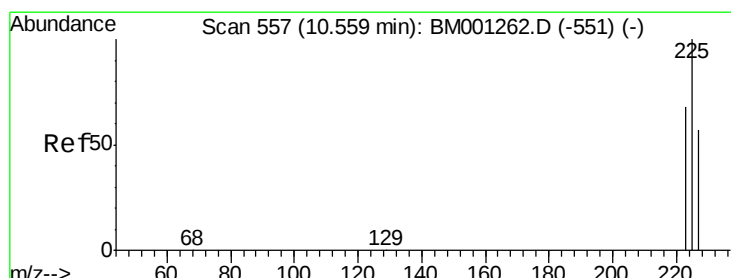
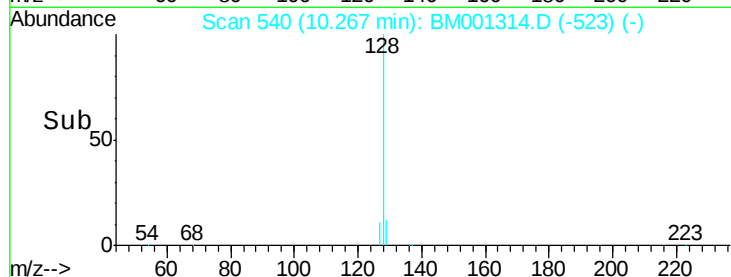
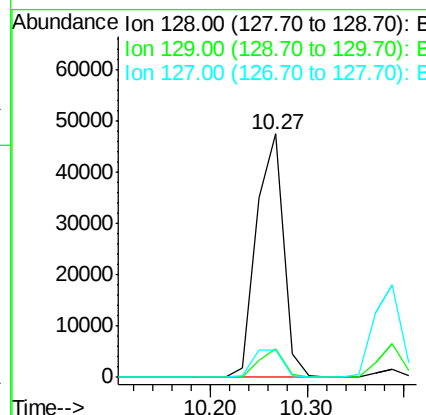
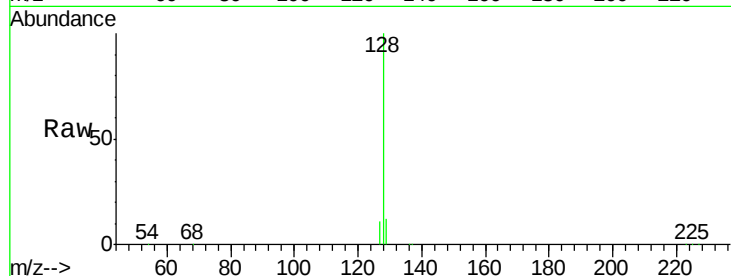
ClientSampleId :

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Tot Ion:128	Resp:	91655
Ion Ratio	Lower	Upper
128 100		
129 11.7	9.1	13.7
127 11.4	10.6	16.0



#10

Hexachlorobutadiene

Concen: 7.95 ng

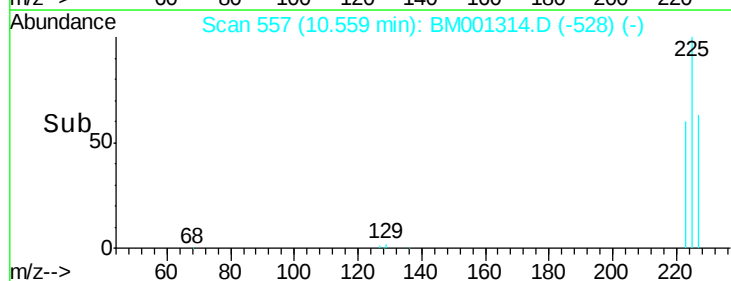
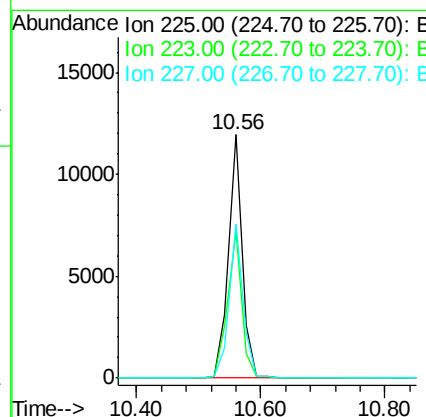
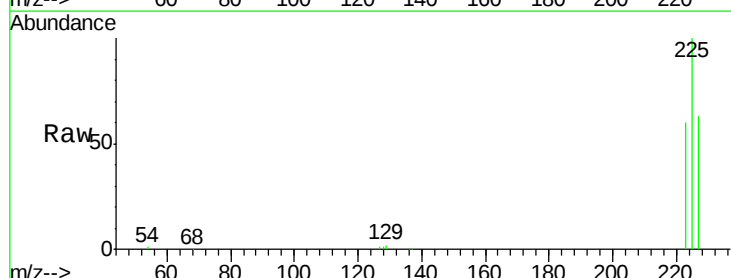
RT: 10.56 min Scan# 557

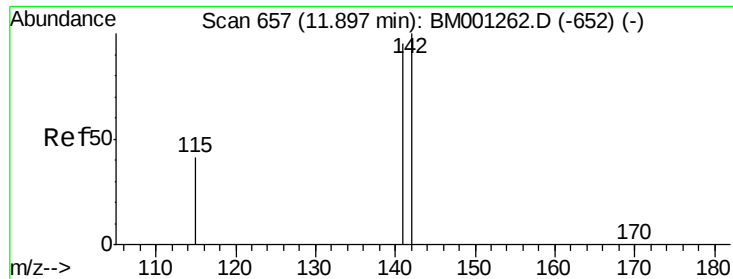
Delta R.T. 0.00 min

Lab File: BM001314.D

Acq: 15 May 2015 04:30

Tgt Ion:225	Resp:	18150
Ion Ratio	Lower	Upper
225 100		
223 61.9	49.6	74.4
227 63.4	51.4	77.2





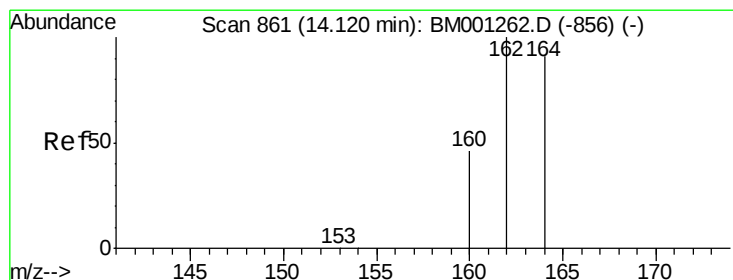
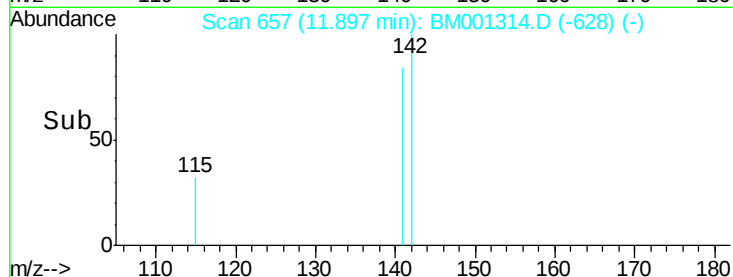
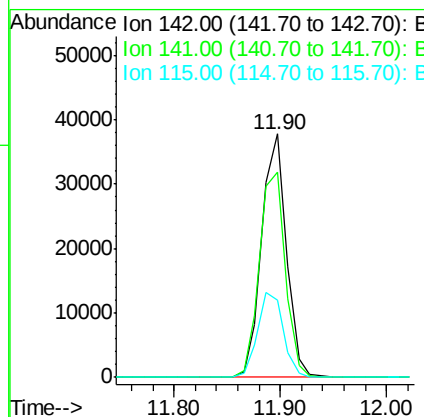
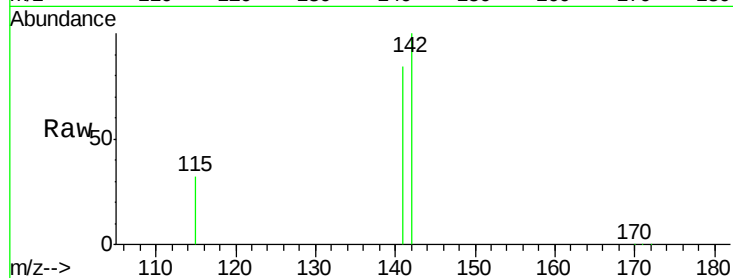
#11
2-Methylnaphthalene
Concen: 8.09 ng
RT: 11.90 min Scan# 657
Delta R.T. 0.00 min
Lab File: BM001314.D
Acq: 15 May 2015 04:30

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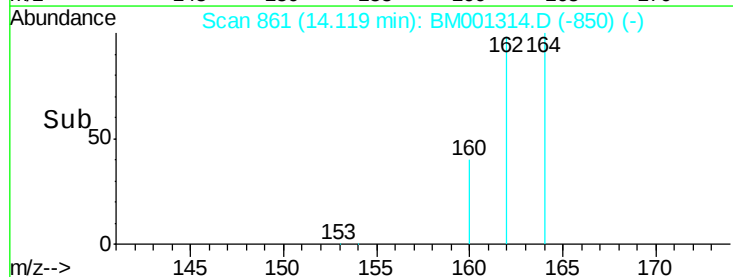
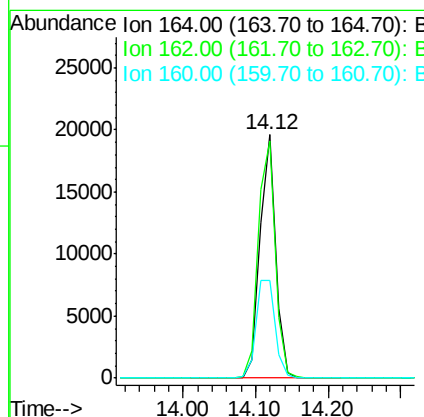
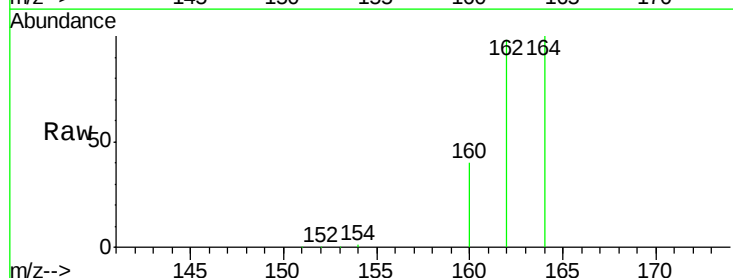
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Tot Ion	Ratio	Lower	Upper
142	100		
141	84.3	76.1	114.1
115	31.7	33.1	49.7



#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.12 min Scan# 861
Delta R.T. 0.00 min
Lab File: BM001314.D
Acq: 15 May 2015 04:30

Tgt Ion	Ratio	Lower	Upper
164	100		
162	97.6	87.9	131.9
160	40.3	40.9	61.3





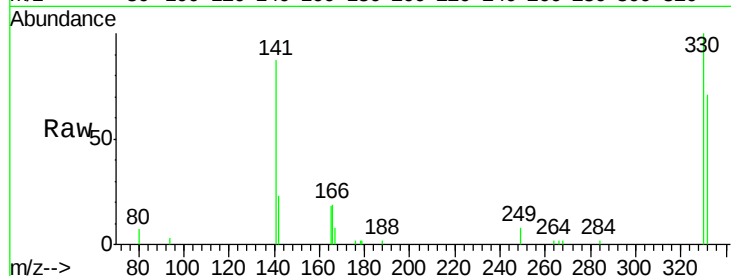
#13
 2,4,6-Tribromophenol
 Concen: 9.59 ng
 RT: 15.60 min Scan# 939
 Delta R.T. -0.03 min
 Lab File: BM001314.D
 Acq: 15 May 2015 04:30

Instrument :
 BNA_M
 ClientSampleId :
 PB83389BSD

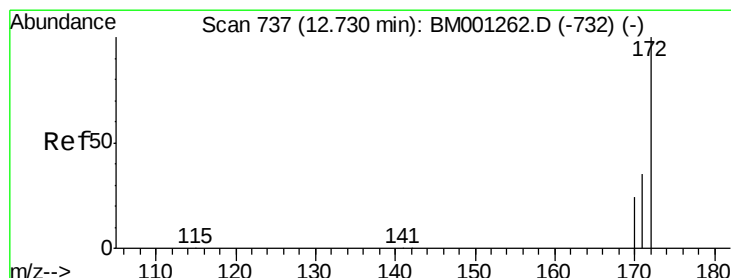
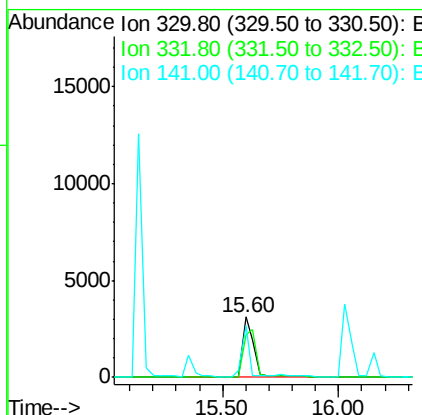
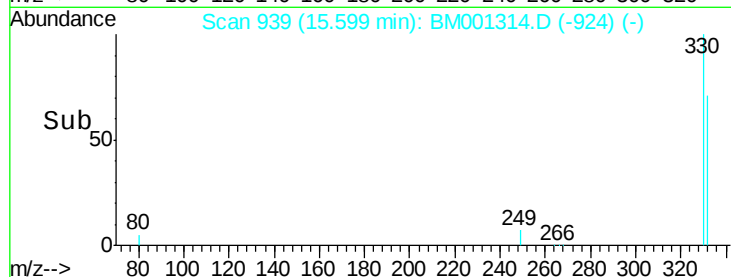
Tot Ion	Ratio	Lower	Upper
330	100		
332	0.0	89.0	133.4#
141	58.4	0.0	0.0#

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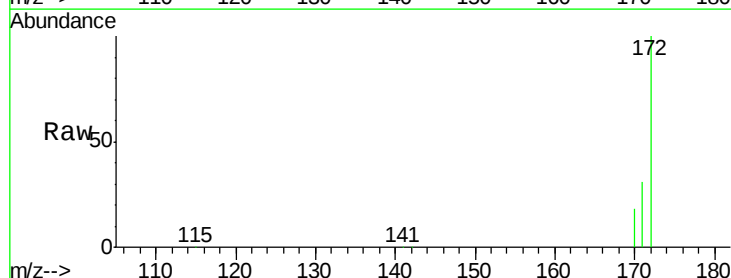


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

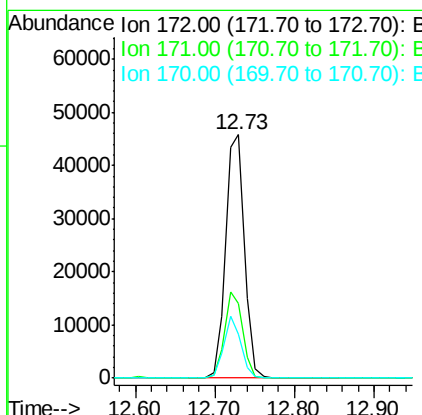
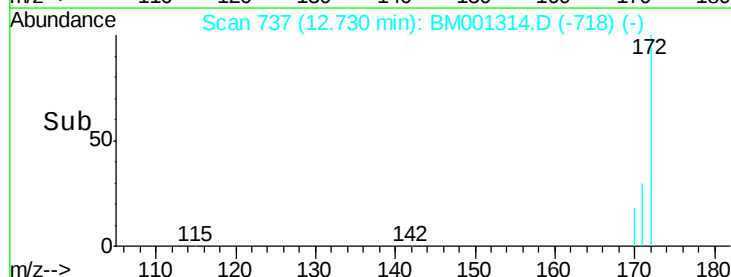


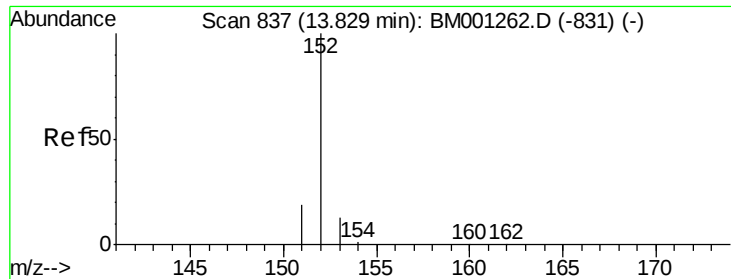
#14
 2-Fluorobiphenyl
 Concen: 8.35 ng
 RT: 12.73 min Scan# 737
 Delta R.T. 0.00 min
 Lab File: BM001314.D
 Acq: 15 May 2015 04:30

Tgt Ion	Ratio	Lower	Upper
172	100		
171	30.7	28.7	43.1
170	18.2	19.5	29.3#



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





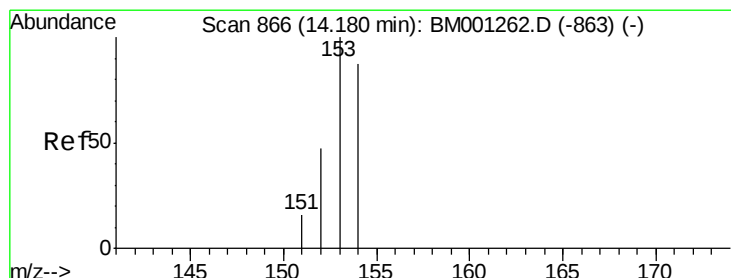
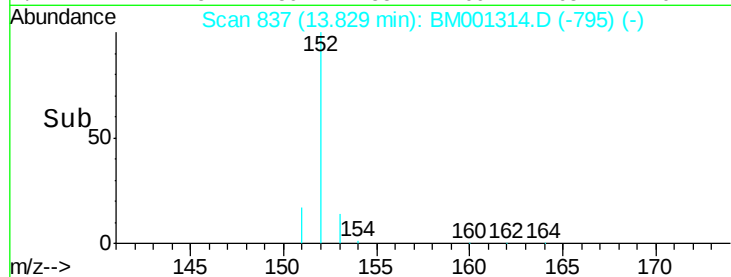
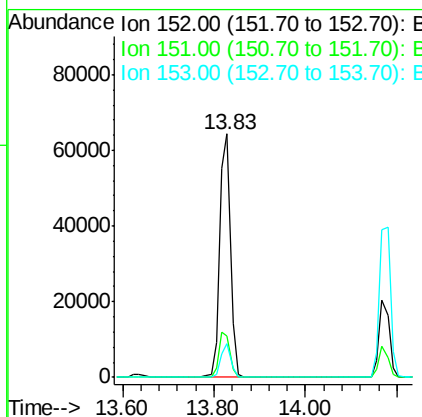
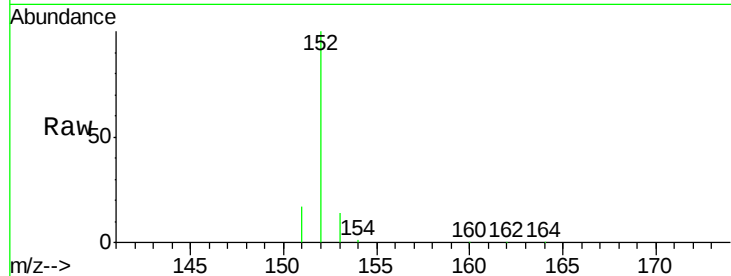
#15
Acenaphthylene
Concen: 8.98 ng
RT: 13.83 min Scan# 837
Delta R.T. 0.00 min
Lab File: BM001314.D
Acq: 15 May 2015 04:30

Instrument :
BNA_M
ClientSampleId :
PB83389BSD

Tot Ion	Ratio	Resp	Lower	Upper
152	100	105990		
151	19.0		15.0	22.4
153	12.9		10.1	15.1

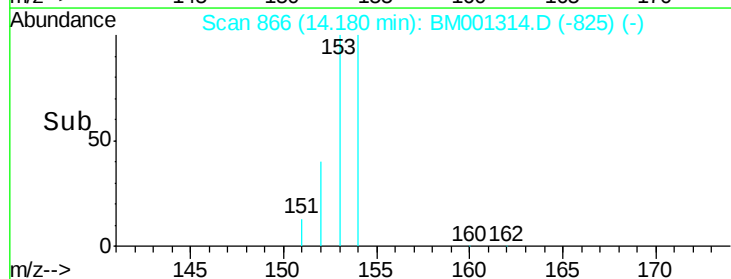
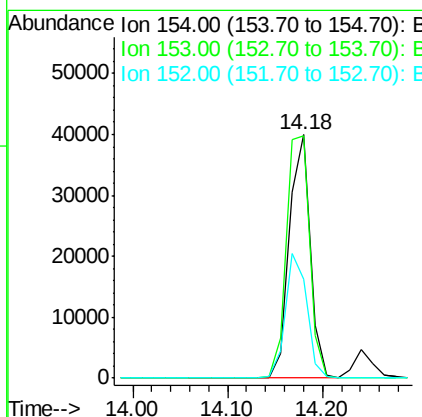
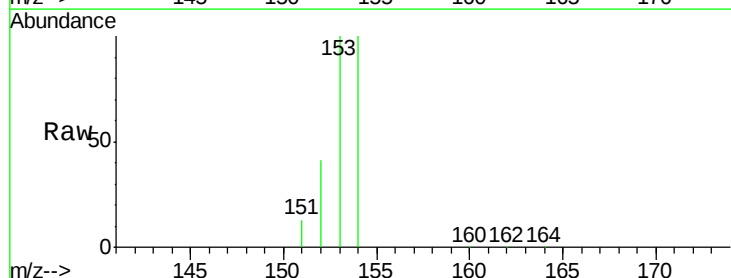
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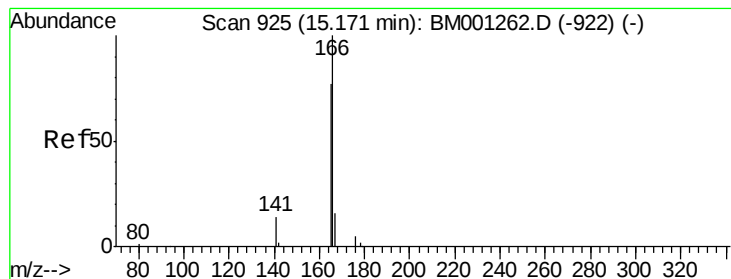
mohammad
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#16
Acenaphthene
Concen: 8.05 ng
RT: 14.18 min Scan# 866
Delta R.T. 0.00 min
Lab File: BM001314.D
Acq: 15 May 2015 04:30

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	60863		
153	110.7		91.4	137.2
152	52.3		44.3	66.5





#17

Fluorene

Concen: 8.03 ng

RT: 15.14 min Scan# 924

Delta R.T. 0.00 min

Lab File: BM001314.D

Acq: 15 May 2015 04:30

Instrument :

BNA_M

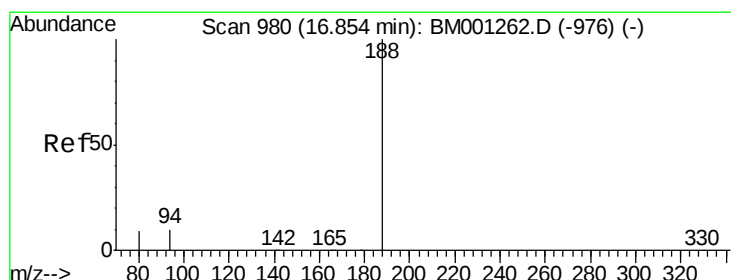
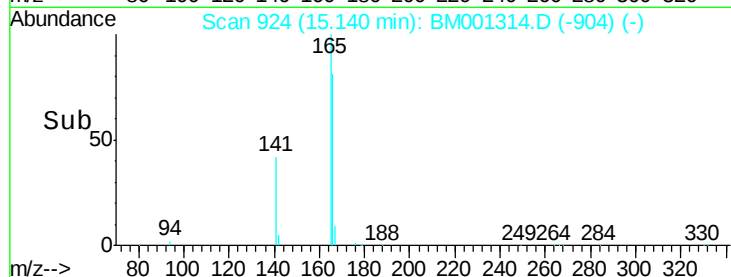
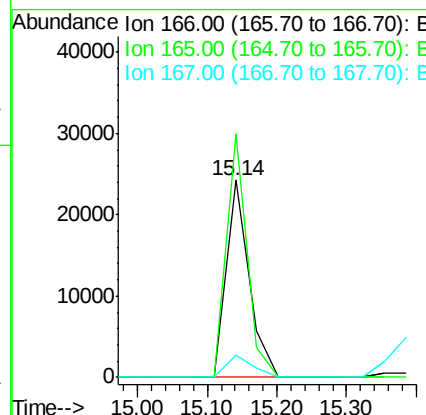
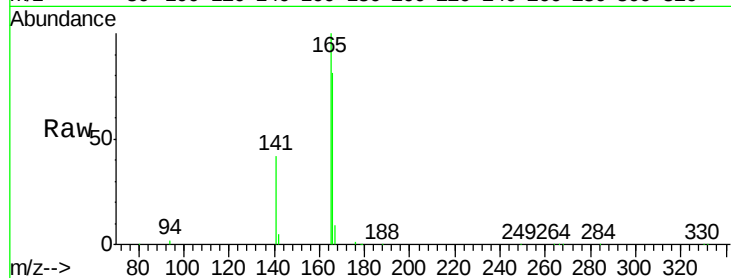
ClientSampleId :

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Tot Ion	Ratio	Lower	Upper
166	100		
165	112.6	70.6	106.0#
167	12.7	11.3	16.9

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#18

Phenanthrene-d10

Concen: 5.00 ng

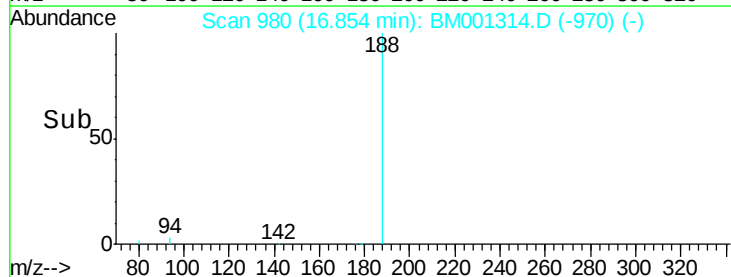
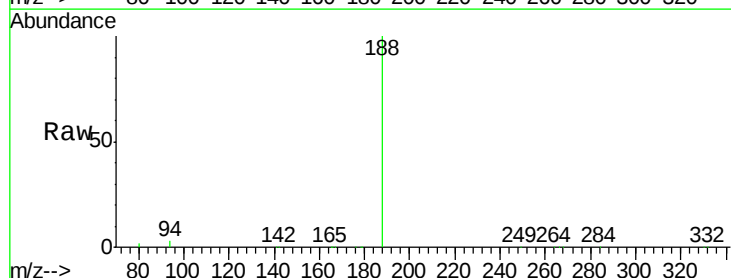
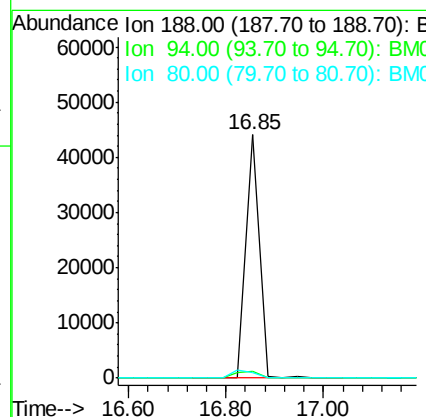
RT: 16.85 min Scan# 980

Delta R.T. 0.00 min

Lab File: BM001314.D

Acq: 15 May 2015 04:30

Tgt Ion	Ratio	Lower	Upper
188	100		
94	2.8	7.8	11.8#
80	2.4	7.5	11.3#





#19

Hexachlorobenzene

Concen: 6.06 ng

RT: 16.18 min Scan# 958

Delta R.T. 0.00 min

Lab File: BM001314.D

Acq: 15 May 2015 04:30

Instrument :

BNA_M

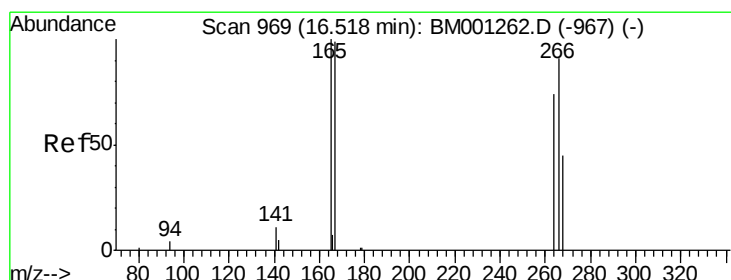
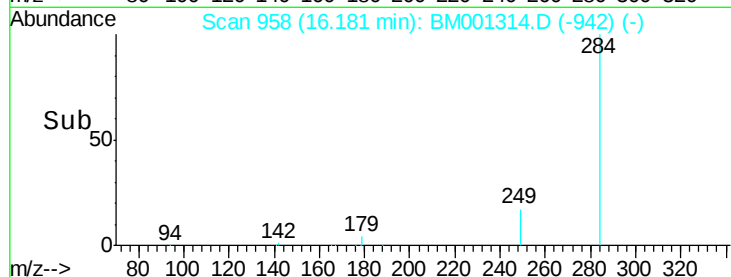
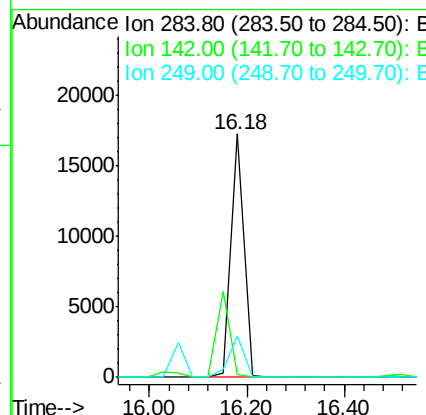
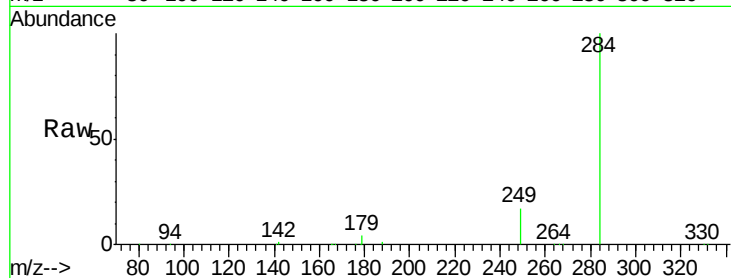
ClientSampleId :

PB83389BSD

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Tot Ion	Ratio	Lower	Upper
284	100		
142	0.0	0.0	0.0
249	19.3	22.7	34.1#



#20

Pentachlorophenol

Concen: 22.48 ng

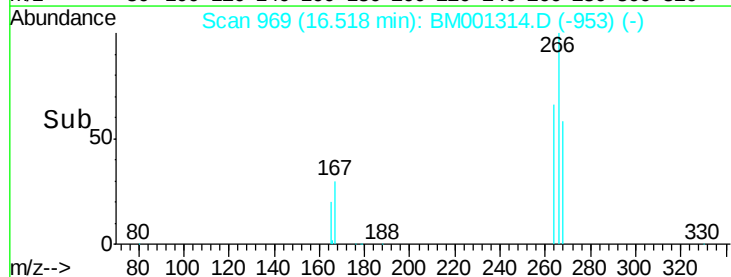
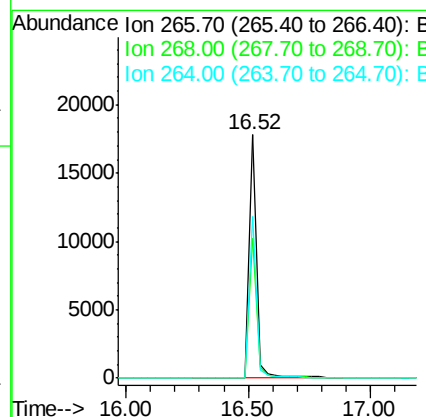
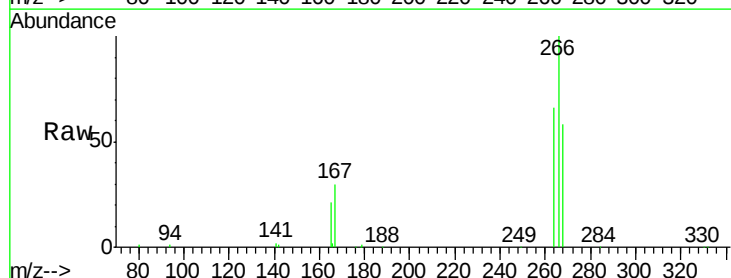
RT: 16.52 min Scan# 969

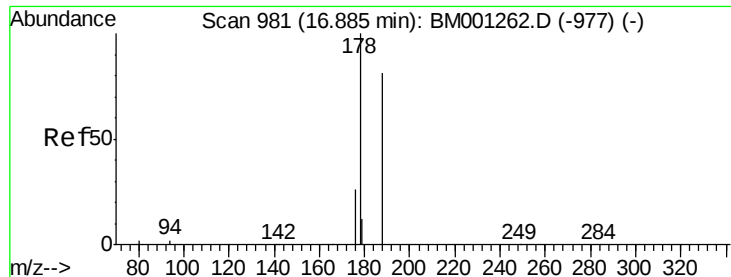
Delta R.T. 0.00 min

Lab File: BM001314.D

Acq: 15 May 2015 04:30

Tgt Ion	Ratio	Lower	Upper
266	100		
268	57.7	49.4	74.0
264	66.4	67.8	101.6#





#21

Phenanthrene

Concen: 9.28 ng

RT: 16.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: BM001314.D

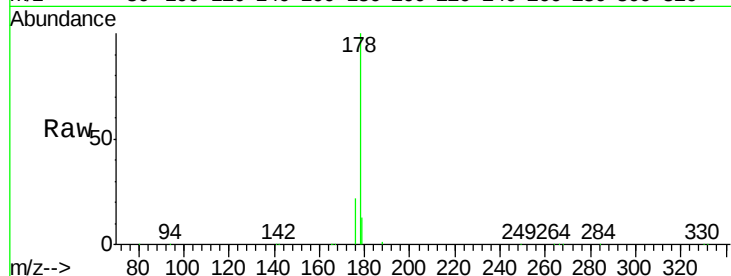
Acq: 15 May 2015 04:30

Instrument :

BNA_M

ClientSampleId :

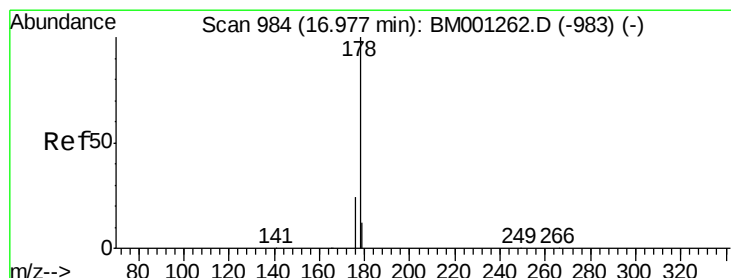
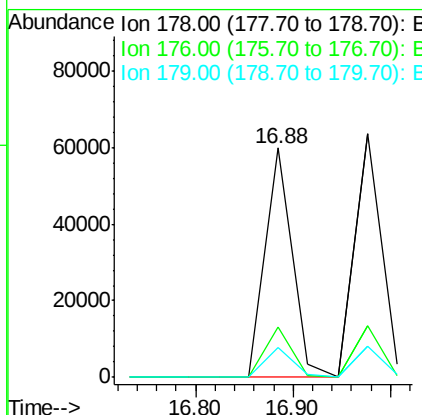
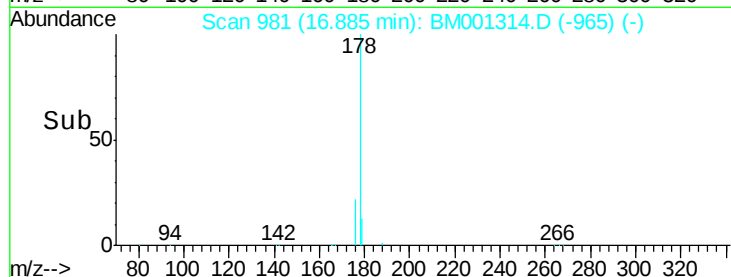
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Tot Ion:178	Resp:	116301
Ion Ratio	Lower	Upper
178	100	
176	21.6	15.9 23.9
179	13.4	0.0 0.0#

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#22

Anthracene

Concen: 10.23 ng

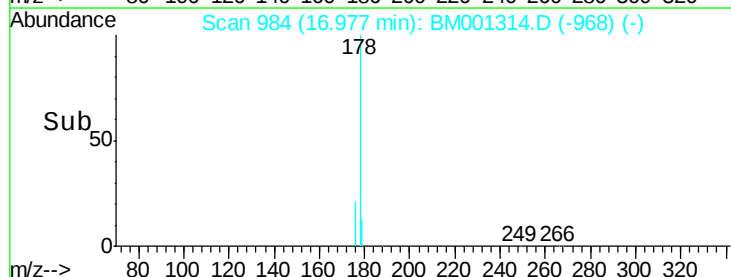
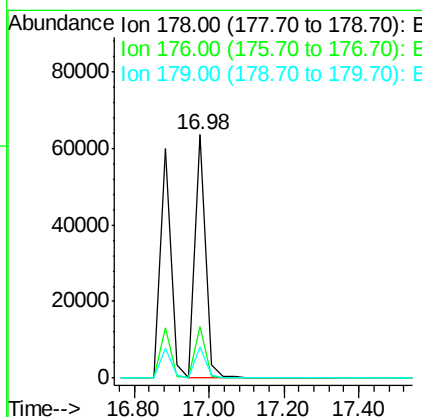
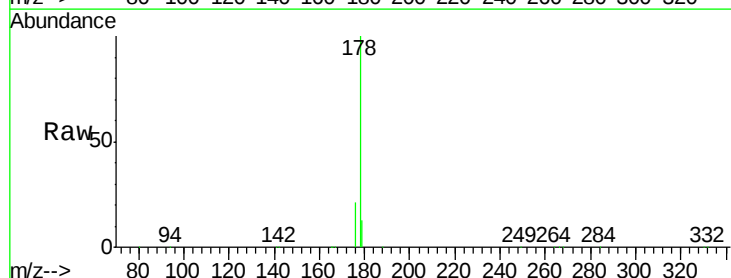
RT: 16.98 min Scan# 984

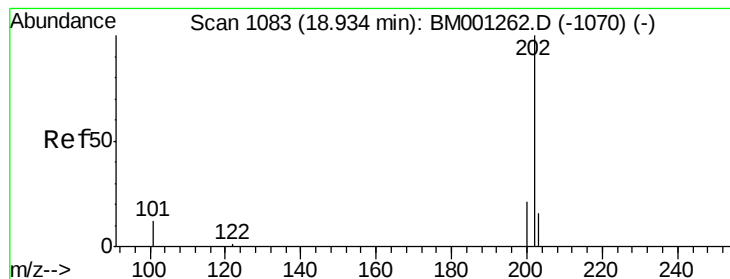
Delta R.T. 0.00 min

Lab File: BM001314.D

Acq: 15 May 2015 04:30

Tgt Ion:178	Resp:	124993
Ion Ratio	Lower	Upper
178	100	
176	20.7	15.3 22.9
179	13.6	0.0 0.0#





#23

Fluoranthene

Concen: 6.54 ng

RT: 18.93 min Scan# 1083

Delta R.T. 0.00 min

Lab File: BM001314.D

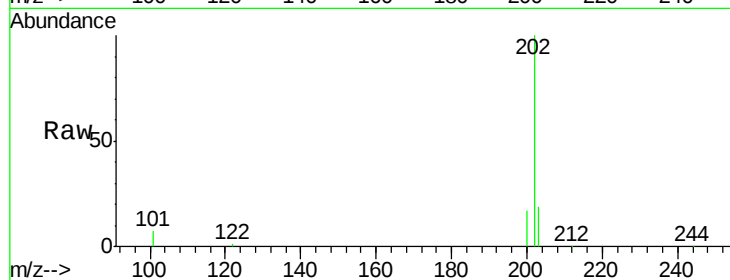
Acq: 15 May 2015 04:30

Instrument :

BNA_M

ClientSampleId :

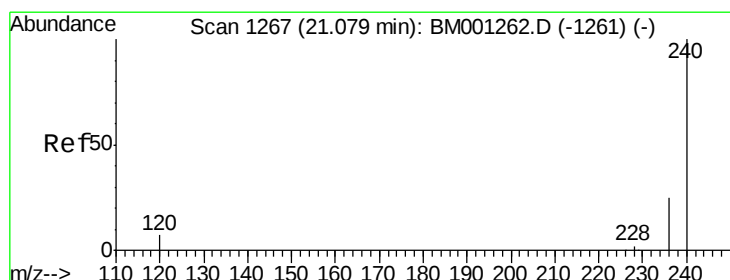
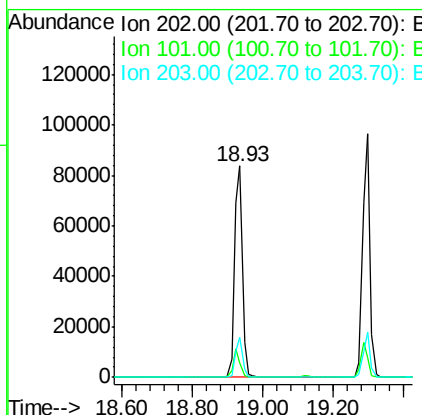
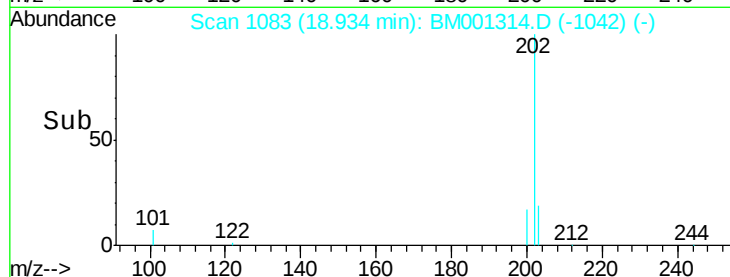
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Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		128603		
101	11.6	9.1	13.7		
203	17.5	13.8	20.6		

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#24

Chrysene-d12

Concen: 5.00 ng

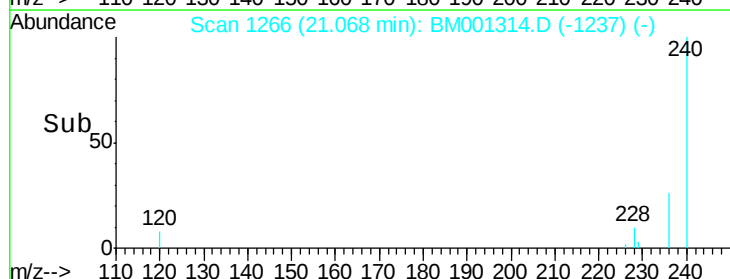
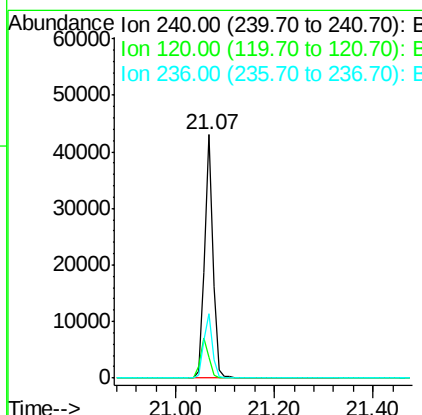
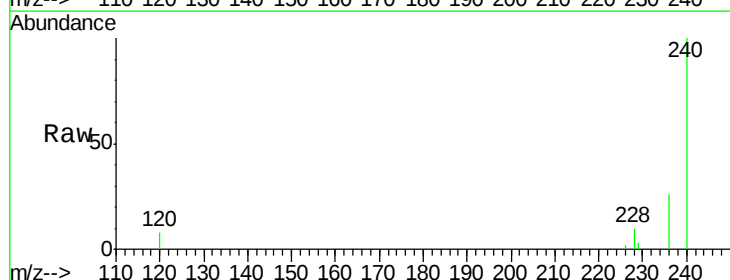
RT: 21.07 min Scan# 1266

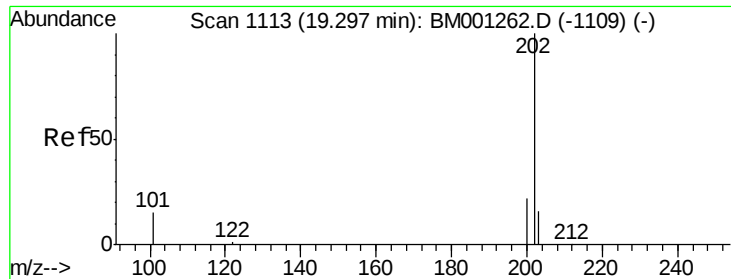
Delta R.T. 0.00 min

Lab File: BM001314.D

Acq: 15 May 2015 04:30

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100		51108		
120	8.5	5.5	8.3#		
236	26.4	20.4	30.6		





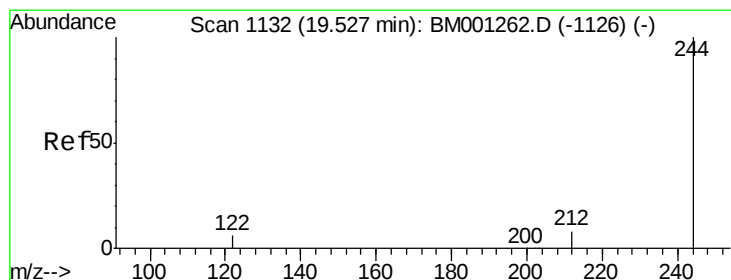
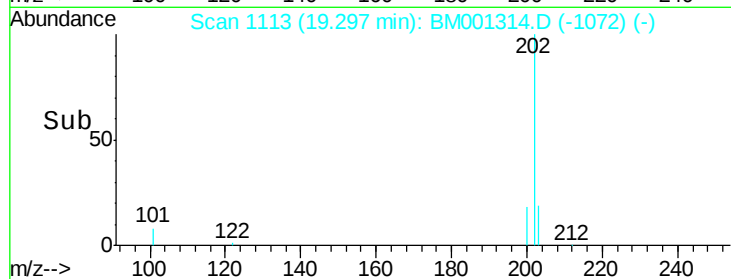
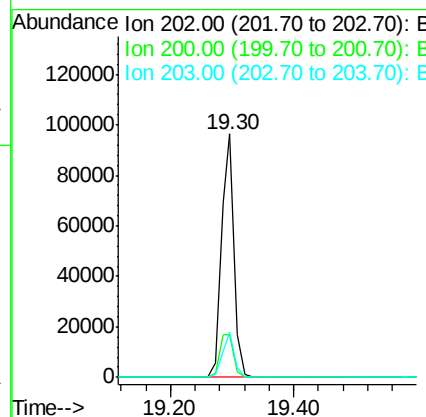
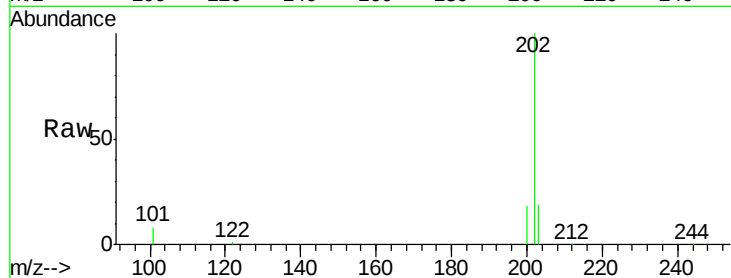
#25
Pvrene
Concen: 8.76 ng
RT: 19.30 min Scan# 1113
Delta R.T. 0.00 min
Lab File: BM001314.D
Acq: 15 May 2015 04:30

Instrument :
BNA_M
ClientSampleId :
PB83389BSD

Tot Ion	Ratio	Resp	Lower	Upper
202	100			
200	20.1	16.4	24.6	
203	17.8	13.9	20.9	

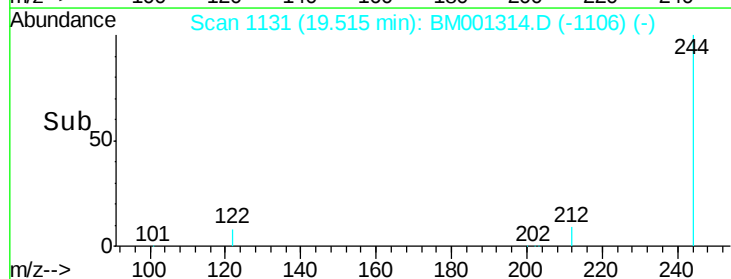
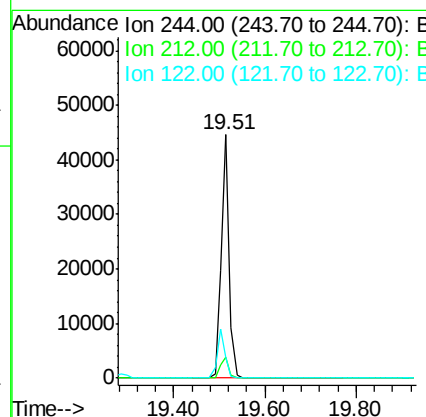
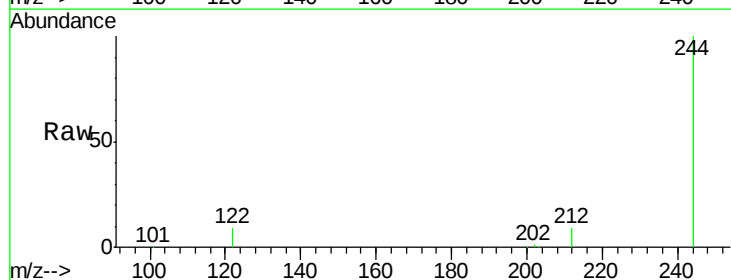
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#26
Terphenyl-d14
Concen: 7.96 ng
RT: 19.51 min Scan# 1131
Delta R.T. 0.00 min
Lab File: BM001314.D
Acq: 15 May 2015 04:30

Tgt Ion	Ratio	Resp	Lower	Upper
244	100			
212	8.8	7.2	10.8	
122	8.6	5.6	8.4	





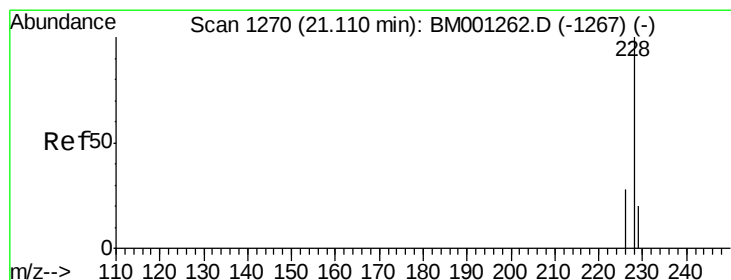
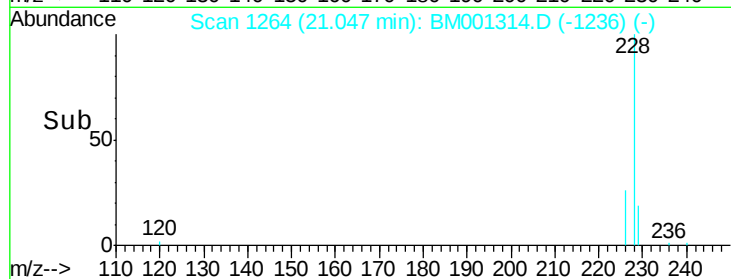
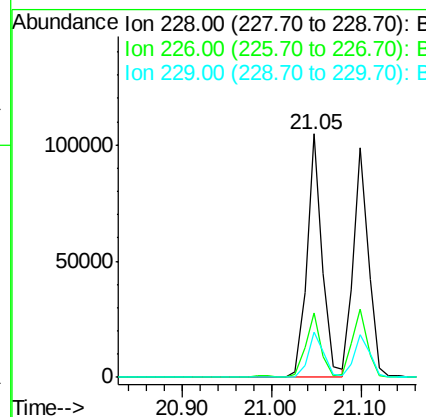
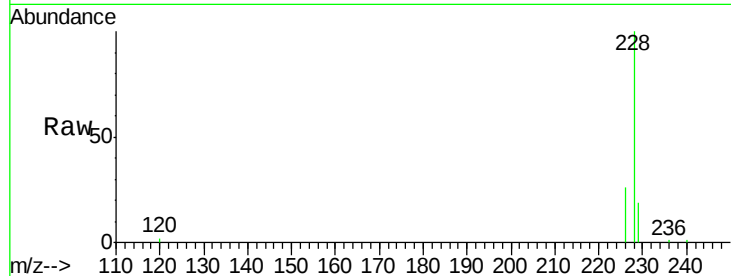
#27
Benzo(a)anthracene
Concen: 8.85 ng
RT: 21.05 min Scan# 1264
Delta R.T. 0.00 min
Lab File: BM001314.D
Acq: 15 May 2015 04:30

Instrument :
BNA_M
ClientSampleId :
PB83389BSD

Tot Ion	Ratio	Resp	Lower	Upper
228	100	122711		
226	26.2	20.5	30.7	
229	18.8	16.2	24.4	

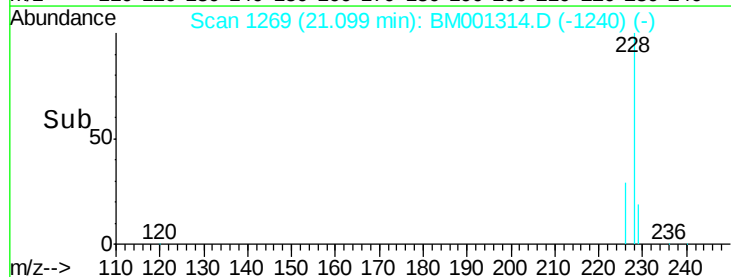
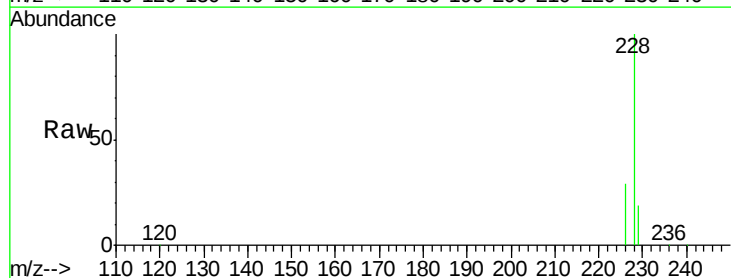
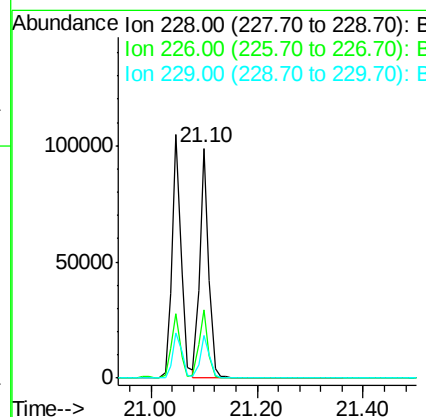
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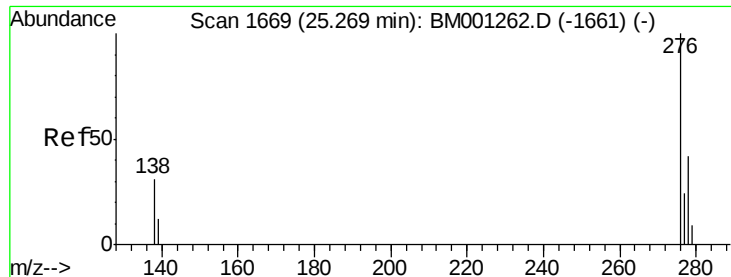
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#28
Chrysene
Concen: 8.27 ng
RT: 21.10 min Scan# 1269
Delta R.T. 0.00 min
Lab File: BM001314.D
Acq: 15 May 2015 04:30

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	116231		
226	29.4	22.2	33.2	
229	18.7	16.5	24.7	





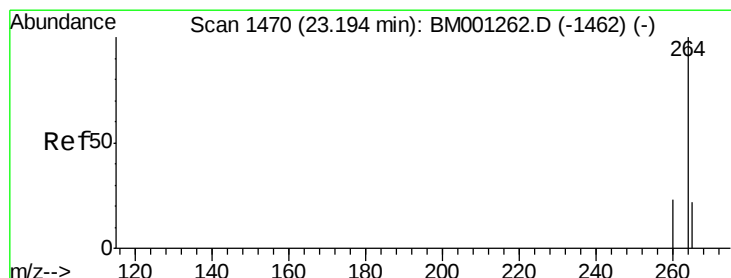
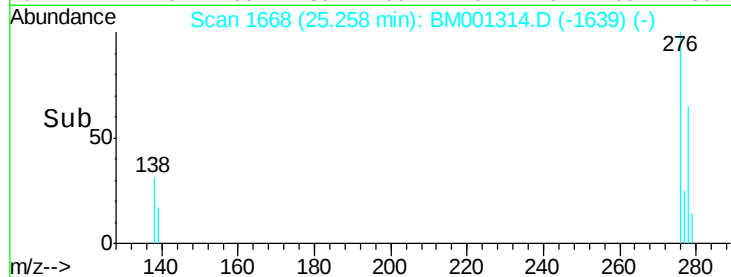
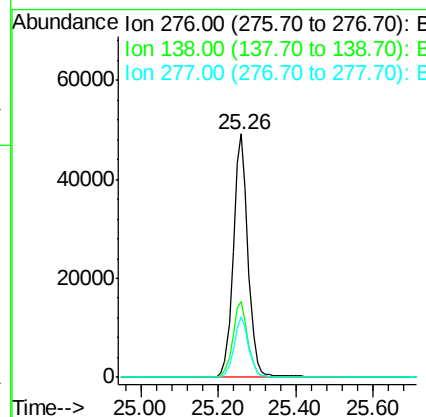
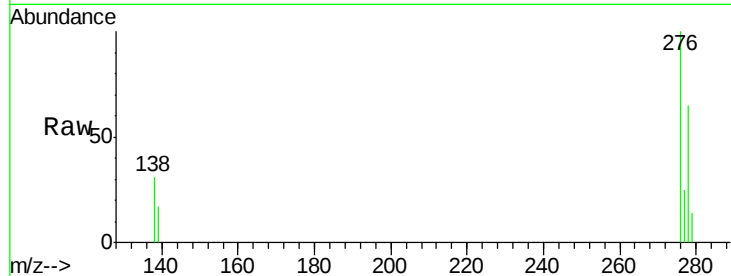
#29
Indeno(1,2,3-cd)pyrene
Concen: 9.12 ng
RT: 25.26 min Scan# 1668
Delta R.T. 0.00 min
Lab File: BM001314.D
Acq: 15 May 2015 04:30

Instrument :
BNA_M
ClientSampleId :
PB83389BSD

Tot Ion	Ratio	Resp	Lower	Upper
276	100	130293		
138	31.9	24.9	37.3	
277	24.6	19.5	29.3	

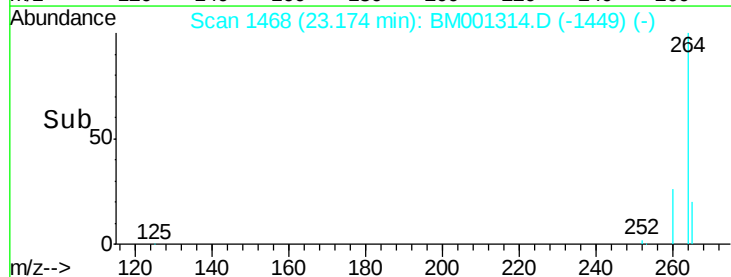
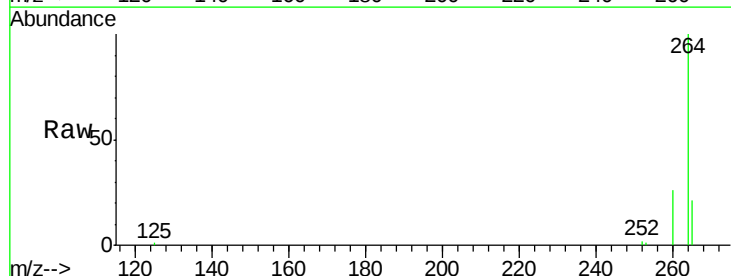
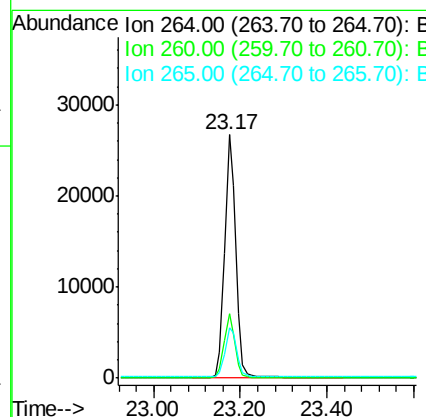
Manual Integrations
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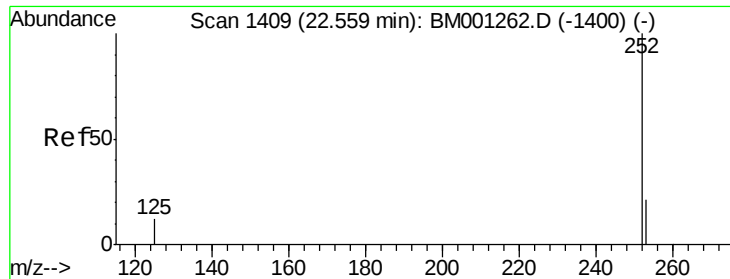
mohammad
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#30
Perylene-d12
Concen: 5.00 ng
RT: 23.17 min Scan# 1468
Delta R.T. 0.00 min
Lab File: BM001314.D
Acq: 15 May 2015 04:30

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	46853		
260	26.3	18.9	28.3	
265	20.7	18.1	27.1	





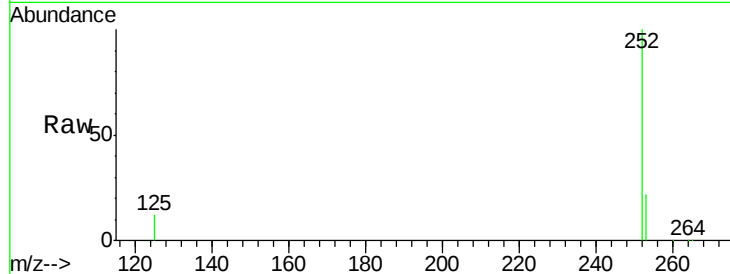
#31
Benzo(b)fluoranthene
Concen: 8.82 ng
RT: 22.55 min Scan# 1408
Delta R.T. 0.00 min
Lab File: BM001314.D
Acq: 15 May 2015 04:30

Instrument :
BNA_M
ClientSampleId :
PB83389BSD

Tot Ion	Ratio	Resp	Lower	Upper
252	100	121126		
253	21.7		17.8	26.6
125	12.0		10.4	15.6

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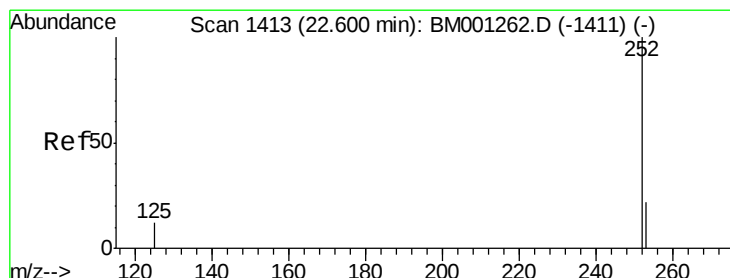
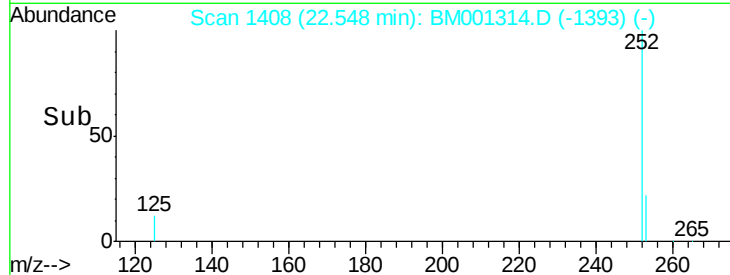
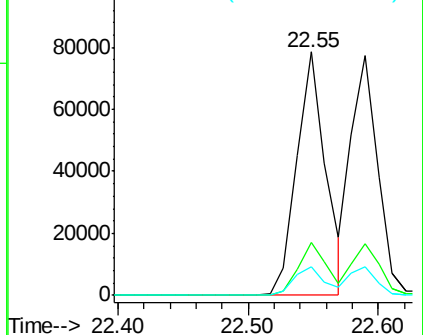


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#32
Benzo(k)fluoranthene
Concen: 8.58 ng
RT: 22.59 min Scan# 1412
Delta R.T. 0.00 min
Lab File: BM001314.D
Acq: 15 May 2015 04:30

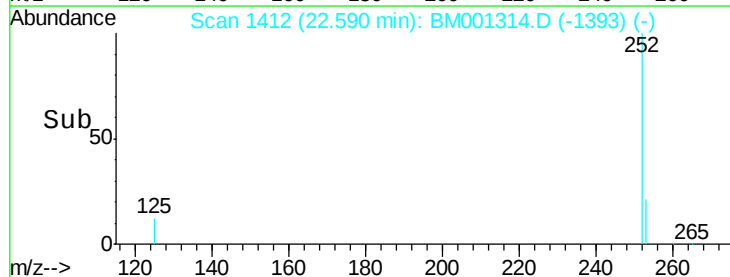
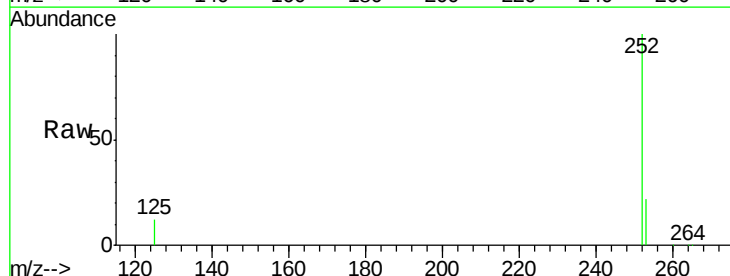
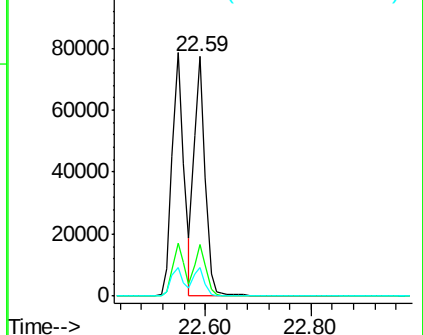
Tgt Ion	Ratio	Resp	Lower	Upper
252	100	111993		
253	21.5		18.6	27.8
125	11.9		10.2	15.4

Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#33

Benzo(a)pyrene

Concen: 9.46 ng

RT: 23.08 min Scan# 1459

Delta R.T. 0.00 min

Lab File: BM001314.D

Acq: 15 May 2015 04:30

Instrument :

BNA_M

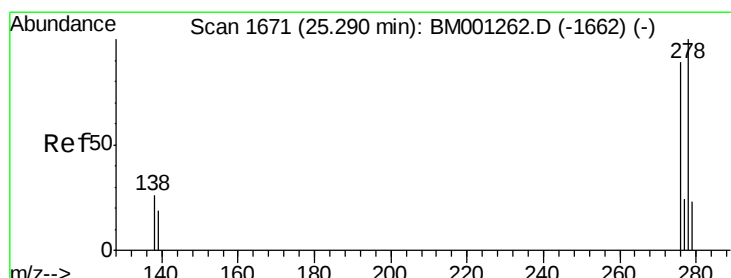
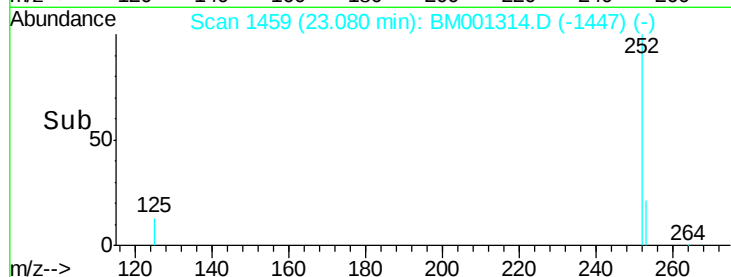
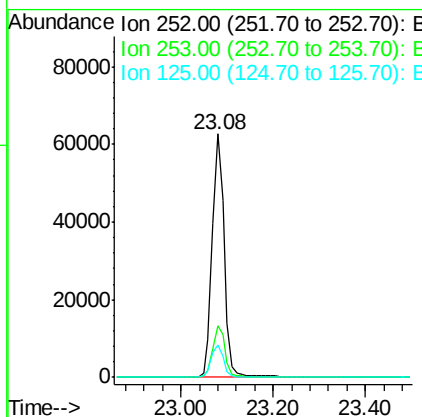
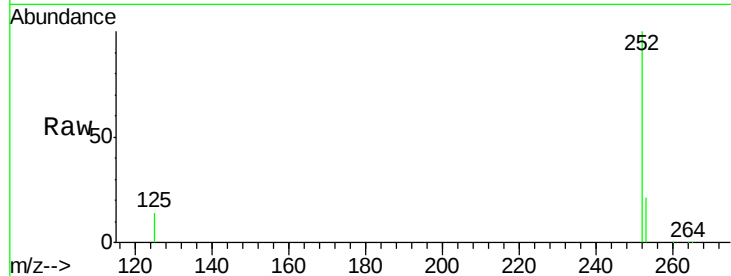
ClientSampleId :

PB83389BSD

Tot Ion:	252	Resp:	112474
Ion Ratio	Lower	Upper	
252	100		
253	21.4	18.3	27.5
125	13.5	12.2	18.2

Manual Integrations
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#34

Dibenzo(a,h)anthracene

Concen: 9.35 ng

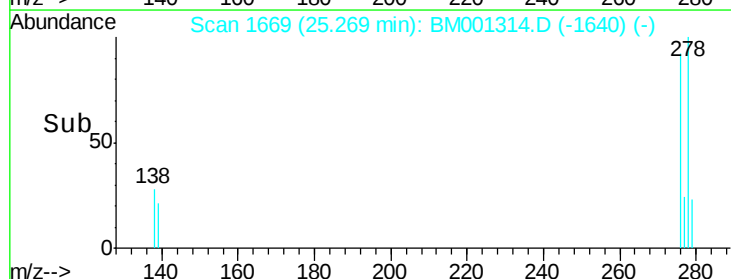
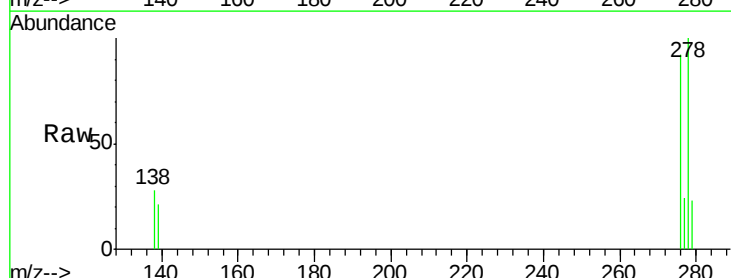
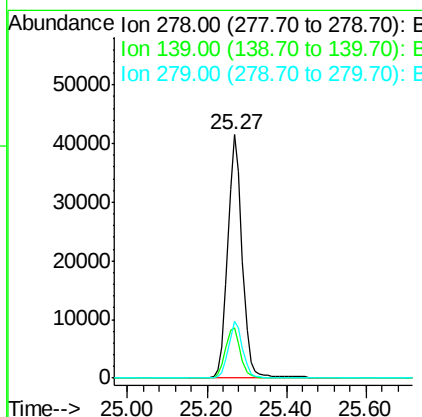
RT: 25.27 min Scan# 1669

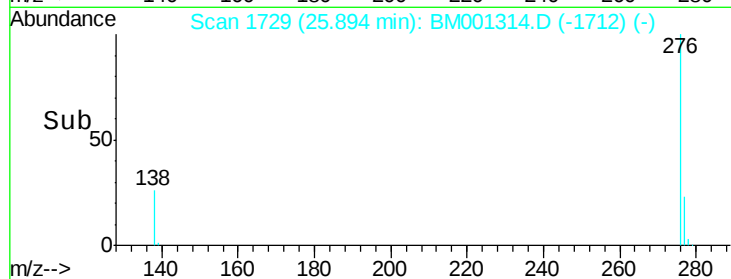
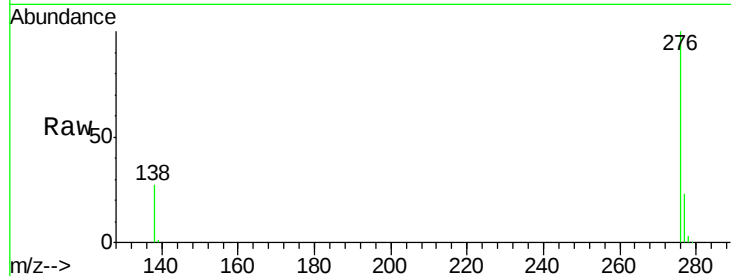
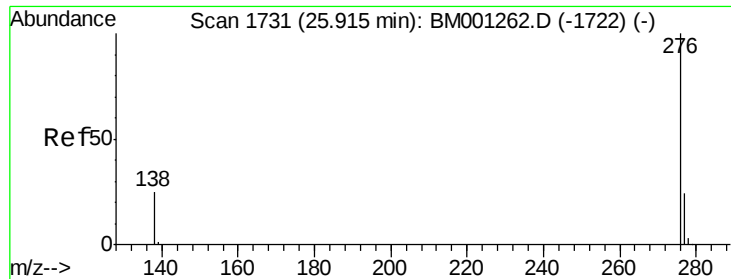
Delta R.T. 0.00 min

Lab File: BM001314.D

Acq: 15 May 2015 04:30

Tgt Ion:	278	Resp:	104461
Ion Ratio	Lower	Upper	
278	100		
139	20.9	16.6	24.8
279	23.2	20.0	30.0





#35
Benzo(a,h,i)perylene
Concen: 9.00 ng
RT: 25.89 min Scan# 1729
Delta R.T. 0.00 min
Lab File: BM001314.D
Acq: 15 May 2015 04:30

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.9	29.9
138	26.6	21.0	31.4

Instrument :
BNA_M
ClientSampleId :
PB83389BSD

Manual Integrations
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