

Data Path : Z:\HPCHEM1\BNA E\DATA\BE080715\
 Data File : BE090397.D
 Acq On : 7 Aug 2015 14:50
 Operator : TP/UM
 Sample : PB84854BSD
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB84854BSD

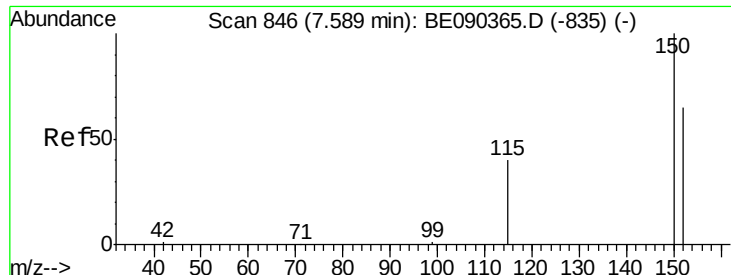
Manual Integrations
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 8/10/2015 7:11:06 PM

Quant Time: Aug 07 23:23:48 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE080515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 06 12:28:08 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.58	152	16426	5.00	ng	0.00
6) Naphthalene-d8	10.34	136	74697	5.00	ng	0.00
12) Acenaphthene-d10	14.20	164	42282	5.00	ng	0.00
18) Phenanthrene-d10	16.94	188	95255	5.00	ng	0.00
25) Chrysene-d12	21.10	240	125598	5.00	ng	0.00
32) Perylene-d12	23.40	264	102437	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.22	112	25052	10.17	ng	0.00
5) Phenol-d6	6.76	99	43152	8.07	ng	-0.01
7) Nitrobenzene-d5	8.72	82	29641	4.88	ng	-0.01
13) 2,4,6-Tribromophenol	15.69	330	9011	7.28	ng	-0.02
14) 2-Fluorobiphenyl	12.82	172	67613	5.81	ng	0.00
27) Terphenyl-d14	19.56	244	110271	5.96	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.20	88	10823	5.61	ng	97
3) n-Nitrosodimethylamine	3.49	42	13262	5.22	ng	92
8) Nitrobenzene	8.77	77	30536	4.71	ng	98
9) Naphthalene	10.38	128	82214	4.98	ng	98
10) Hexachlorobutadiene	10.68	225	13834	5.56	ng	99
11) 2-Methylnaphthalene	12.00	142	52884	5.53	ng	98
15) Acenaphthylene	13.91	152	376905	5.50	ng	100
16) Acenaphthene	14.26	154	56603	5.32	ng	92
17) Fluorene	15.26	166	75702	5.47	ng	98
19) 4-Bromophenyl-phenylether	16.14	248	21714	5.86	ng	99
20) Hexachlorobenzene	16.27	284	98555	5.15	ng	99
21) Pentachlorophenol	16.60	266	13196	8.40	ng	91
22) Phenanthrene	16.98	178	132815	5.57	ng	99
23) Anthracene	17.07	178	126736	6.47	ng	100
24) Fluoranthene	18.98	202	146850	6.26	ng	100
26) Pyrene	19.35	202	162751	5.98	ng	99
28) Benzo(a)anthracene	21.08	228	159094	5.72	ng	99
29) Chrysene	21.14	228	174829	5.20	ng	99
30) Bis(2-ethylhexyl)phthalate	21.03	149	40415	4.27	ng	99
31) Indeno(1,2,3-cd)pyrene	25.79	276	133766	4.44	ng	95
33) Benzo(b)fluoranthene	22.70	252	134536	5.78	ng	98
34) Benzo(k)fluoranthene	22.75	252	160310m	5.62	ng	
35) Benzo(a)pyrene	23.30	252	118248	5.38	ng	100
36) Dibenzo(a,h)anthracene	25.80	278	106588	4.97	ng	97
37) Benzo(g,h,i)perylene	26.51	276	117537	6.21	ng	98

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



#1

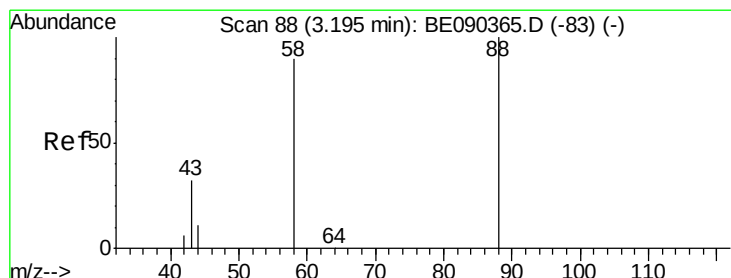
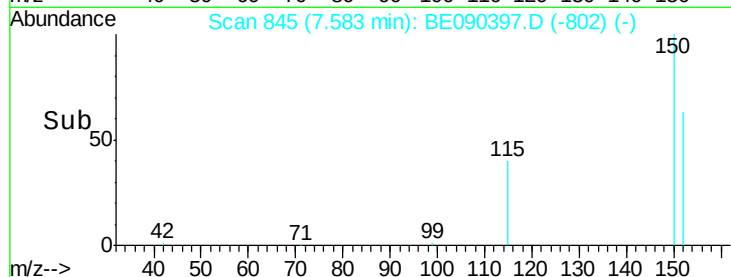
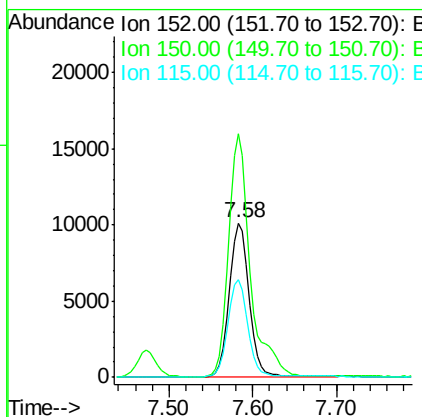
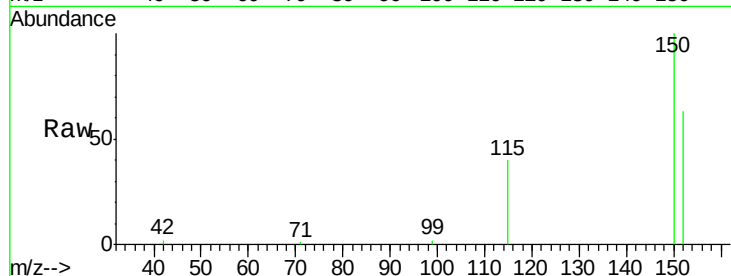
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.58 min Scan# 845
Delta R.T. -0.01 min
Lab File: BE090397.D
Acq: 7 Aug 2015 14:50

Instrument :
BNA_E
ClientSampleId :
PB84854BSD

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.0	123.0	184.4
115	63.2	48.9	73.3

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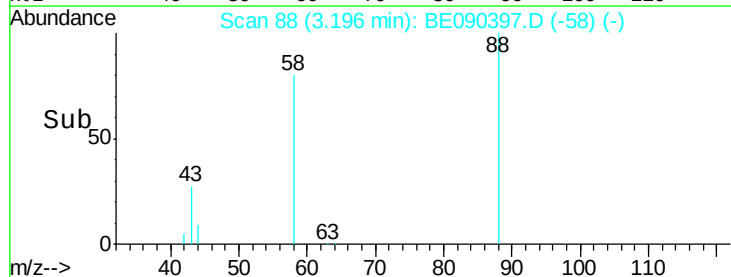
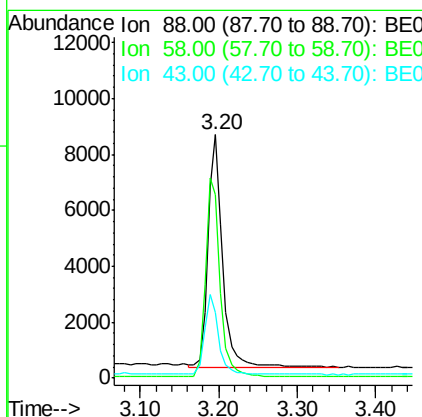
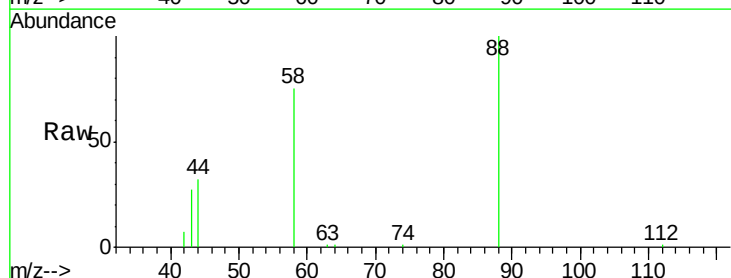
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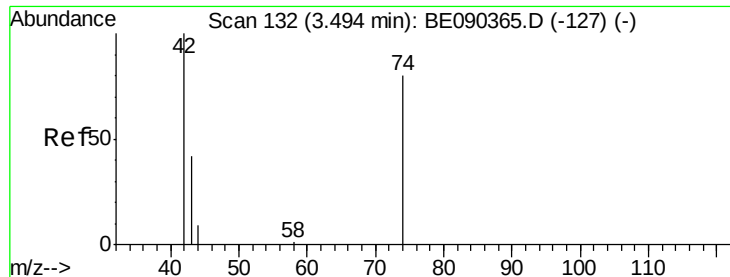


#2

1,4-Dioxane
Concen: 5.61 ng
RT: 3.20 min Scan# 88
Delta R.T. 0.00 min
Lab File: BE090397.D
Acq: 7 Aug 2015 14:50

Tgt Ion	Ratio	Lower	Upper
88	100		
58	85.4	70.0	105.0
43	32.9	28.4	42.6





#3

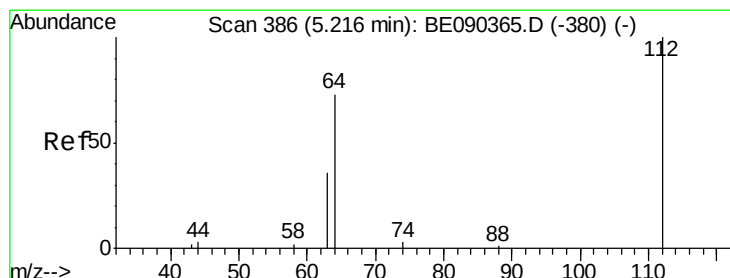
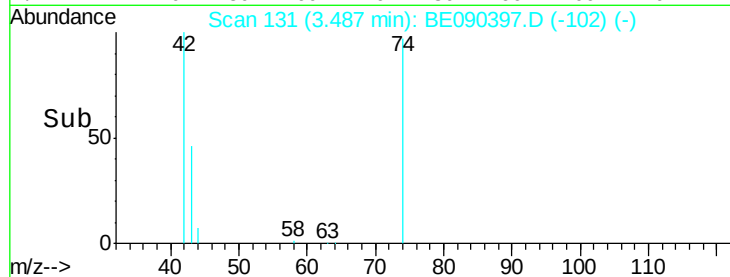
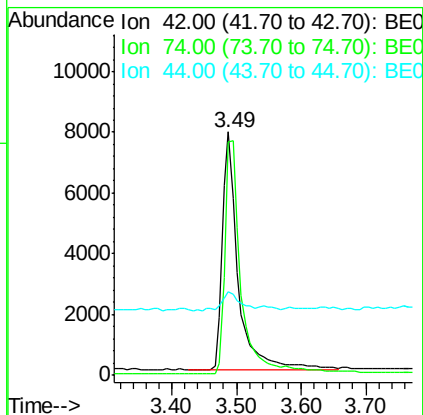
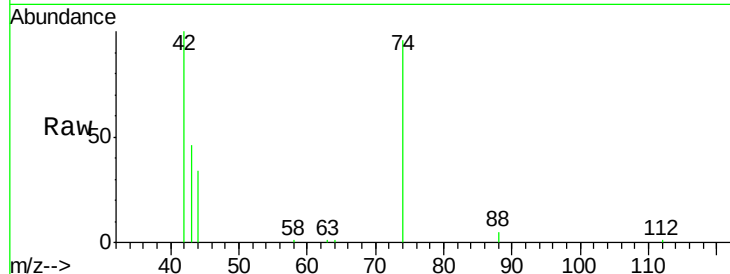
n-Nitrosodimethylamine
 Concen: 5.22 ng
 RT: 3.49 min Scan# 131
 Delta R.T. -0.01 min
 Lab File: BE090397.D
 Acq: 7 Aug 2015 14:50

Instrument :
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 ClientSampleId :
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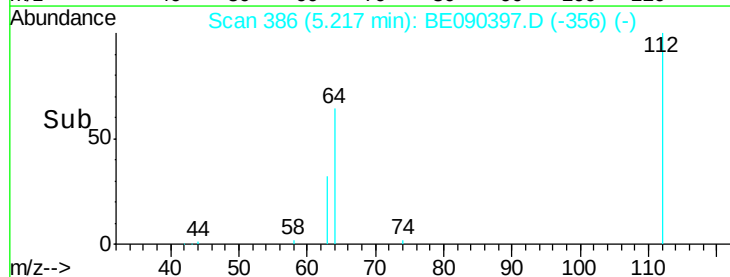
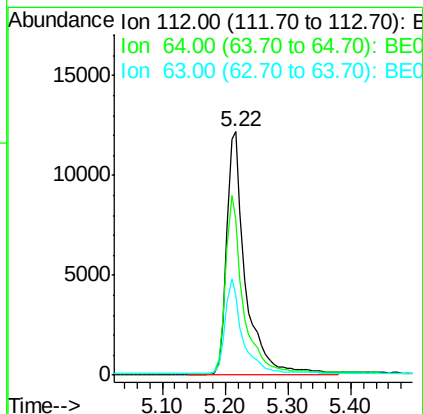
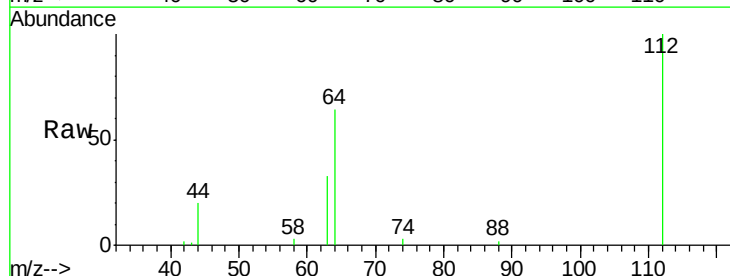
Tot Ion	Ratio	Lower	Upper
42	100		
74	102.2	75.2	112.8
44	9.7	8.7	13.1

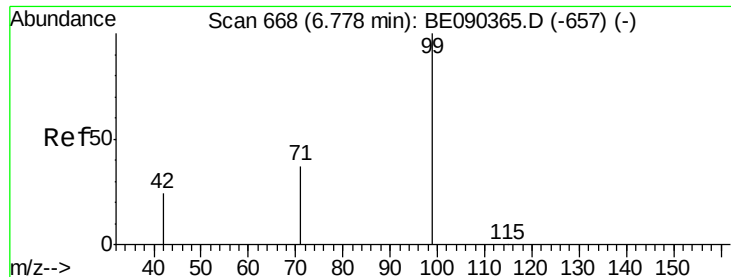


#4

2-Fluorophenol
 Concen: 10.17 ng
 RT: 5.22 min Scan# 386
 Delta R.T. 0.00 min
 Lab File: BE090397.D
 Acq: 7 Aug 2015 14:50

Tgt Ion	Ratio	Lower	Upper
112	100		
64	71.1	37.1	55.7#
63	37.2	19.5	29.3#





#5

Phenol-d6

Concen: 8.07 ng

RT: 6.76 min Scan# 665

Delta R.T. -0.01 min

Lab File: BE090397.D

Acq: 7 Aug 2015 14:50

Instrument :

BNA_E

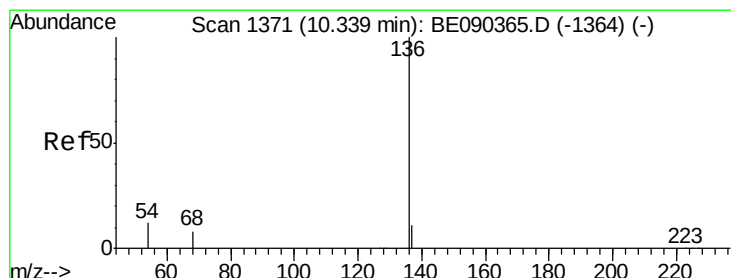
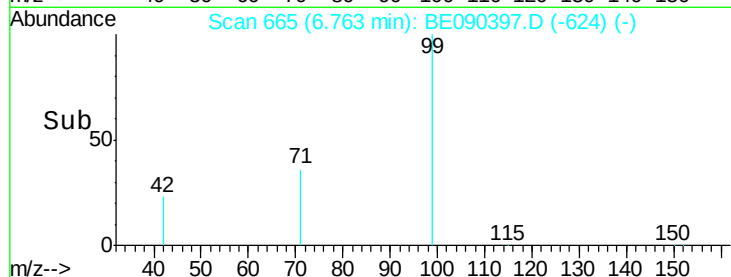
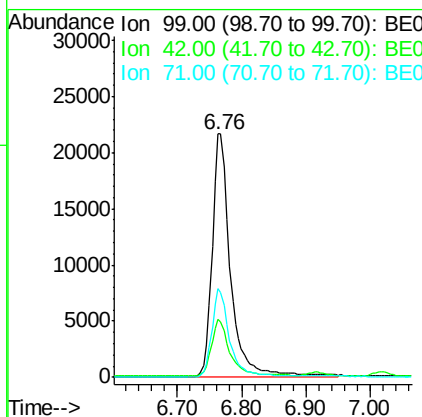
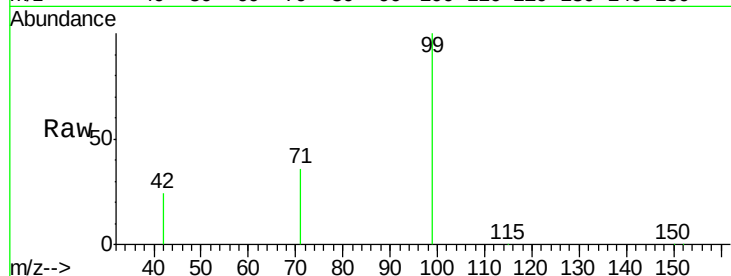
ClientSampleId :

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Tot Ion:	99	Resp:	43152
Ion	Ratio	Lower	Upper
99	100		
42	23.3	18.2	27.4
71	34.8	27.4	41.0



#6

Naphthalene-d8

Concen: 5.00 ng

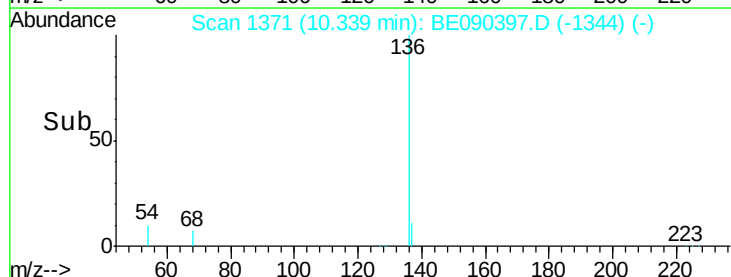
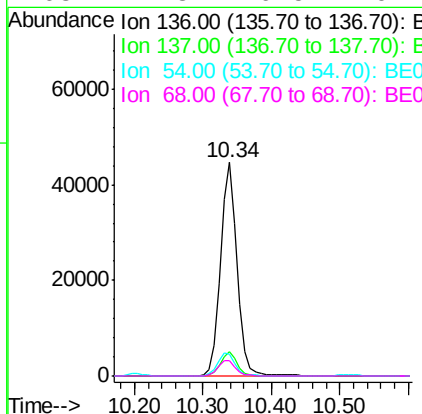
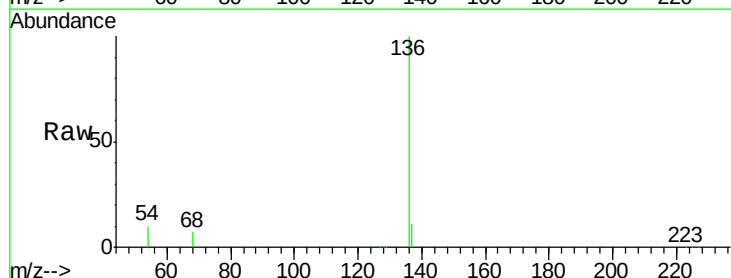
RT: 10.34 min Scan# 1371

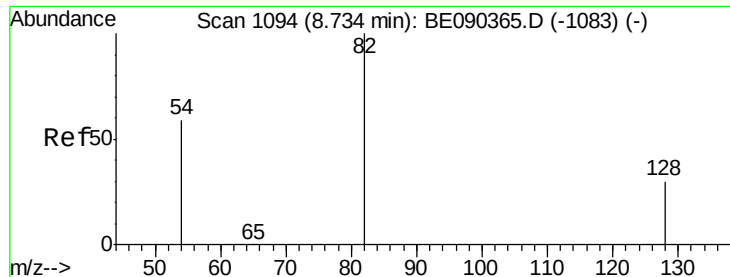
Delta R.T. 0.00 min

Lab File: BE090397.D

Acq: 7 Aug 2015 14:50

Tgt Ion:	136	Resp:	74697
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.7	13.1
54	10.2	9.4	14.0
68	7.3	6.5	9.7





#7

Nitrobenzene-d5

Concen: 4.88 ng

RT: 8.72 min Scan# 1091

Delta R.T. -0.01 min

Lab File: BE090397.D

Acq: 7 Aug 2015 14:50

Instrument :

BNA_E

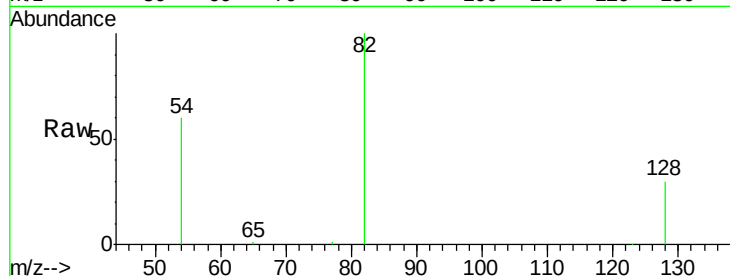
ClientSampleId :

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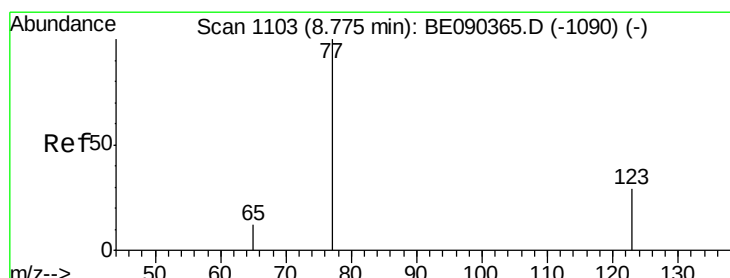
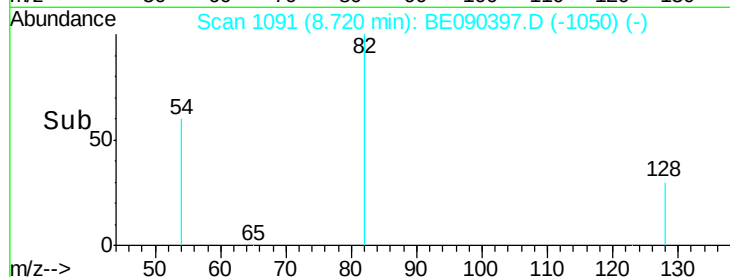
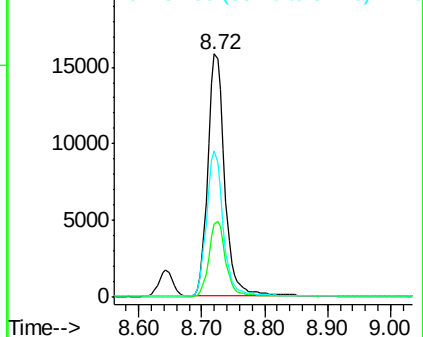
Tot Ion:	82	Resp:	29641
Ion	Ratio	Lower	Upper
82	100		
128	30.1	25.0	37.6
54	60.2	48.8	73.2

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Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): BE0
Ion 54.00 (53.70 to 54.70): BE0



#8

Nitrobenzene

Concen: 4.71 ng

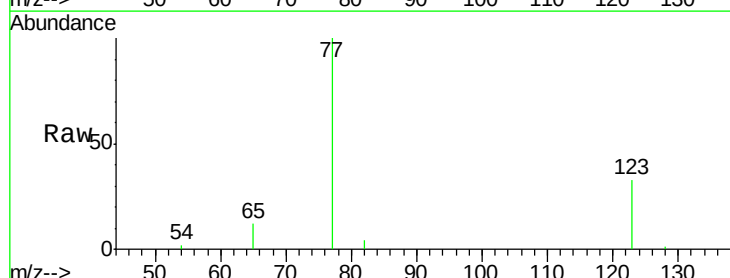
RT: 8.77 min Scan# 1101

Delta R.T. -0.01 min

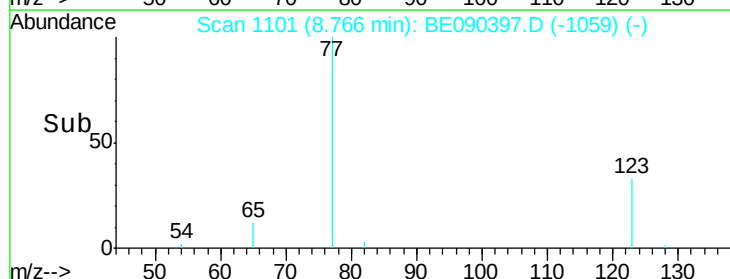
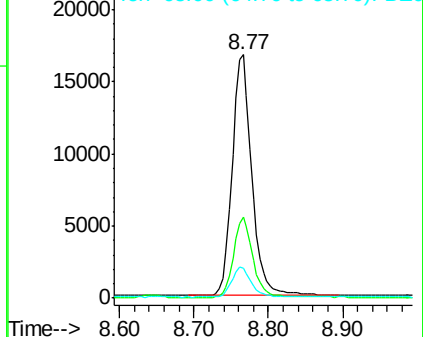
Lab File: BE090397.D

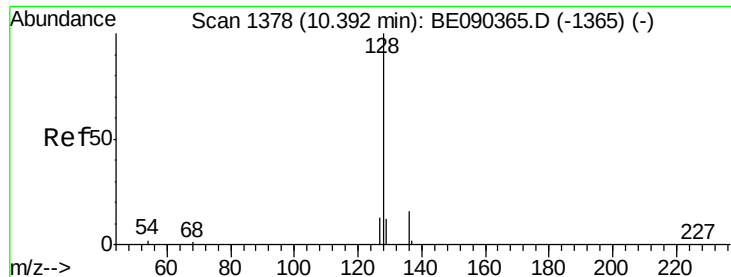
Acq: 7 Aug 2015 14:50

Tgt Ion:	77	Resp:	30536
Ion	Ratio	Lower	Upper
77	100		
123	32.8	25.1	37.7
65	12.4	9.3	13.9



Abundance Ion 77.00 (76.70 to 77.70): BE0
Ion 123.00 (122.70 to 123.70): BE0
Ion 65.00 (64.70 to 65.70): BE0





#9

Naphthalene

Concen: 4.98 ng

RT: 10.38 min Scan# 1377

Delta R.T. -0.01 min

Lab File: BE090397.D

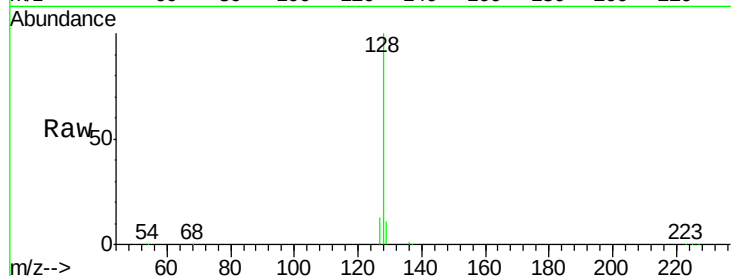
Acq: 7 Aug 2015 14:50

Instrument :

BNA_E

ClientSampleId :

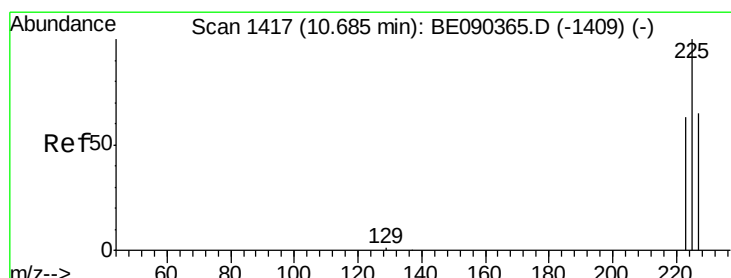
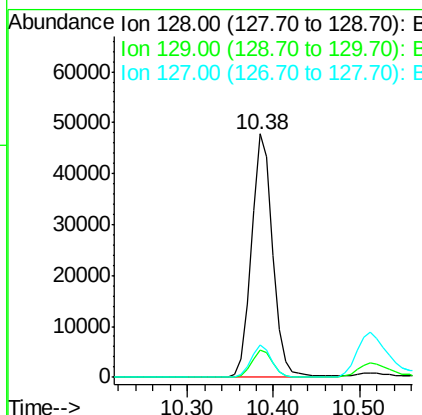
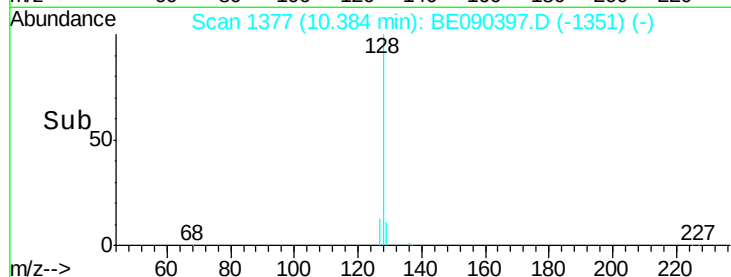
PB84854BSD



Tot Ion:	128	Resp:	82214
Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.8	14.6
127	13.1	10.6	16.0

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#10

Hexachlorobutadiene

Concen: 5.56 ng

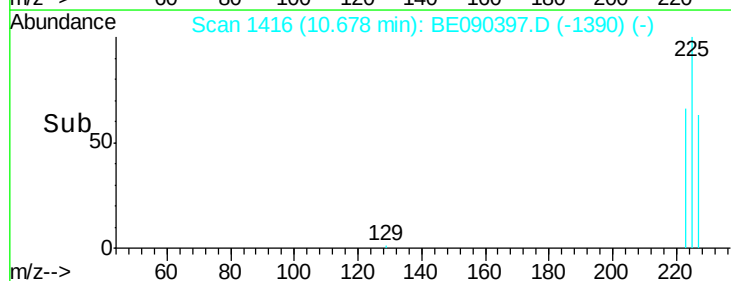
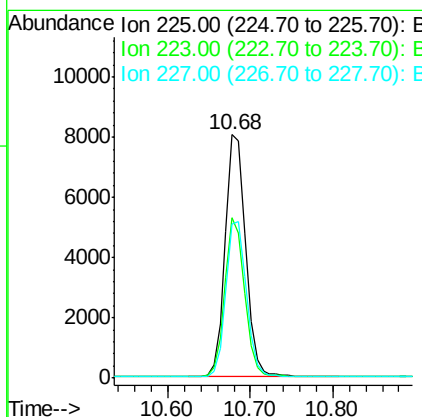
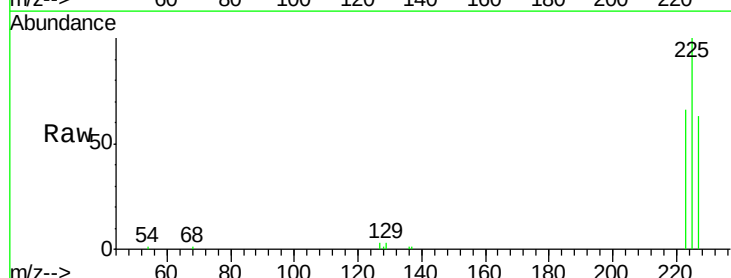
RT: 10.68 min Scan# 1416

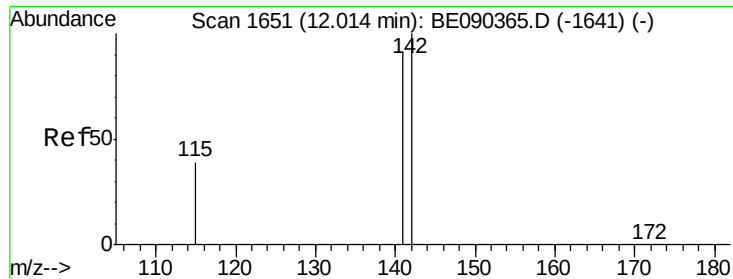
Delta R.T. -0.01 min

Lab File: BE090397.D

Acq: 7 Aug 2015 14:50

Tgt Ion:	225	Resp:	13834
Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.6	75.8
227	64.2	50.7	76.1





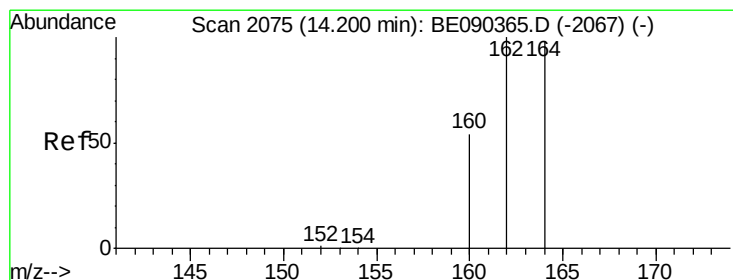
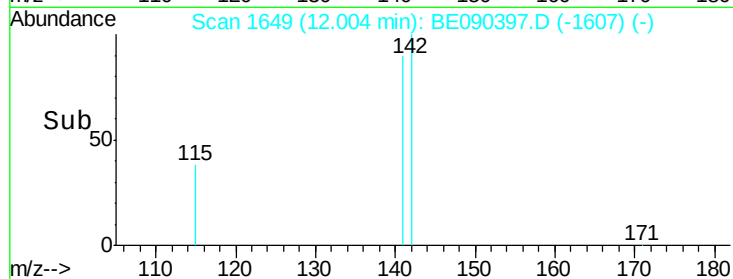
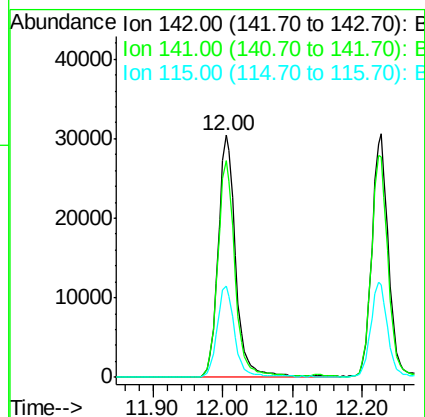
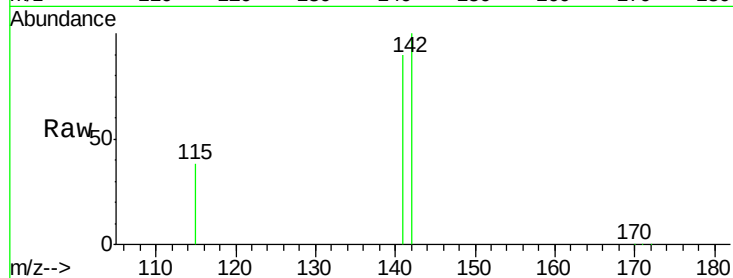
#11
2-Methylnaphthalene
Concen: 5.53 ng
RT: 12.00 min Scan# 1649
Delta R.T. -0.01 min
Lab File: BE090397.D
Acq: 7 Aug 2015 14:50

Instrument :
BNA_E
ClientSampleId :
PB84854BSD

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.8	72.6	109.0
115	37.6	31.6	47.4

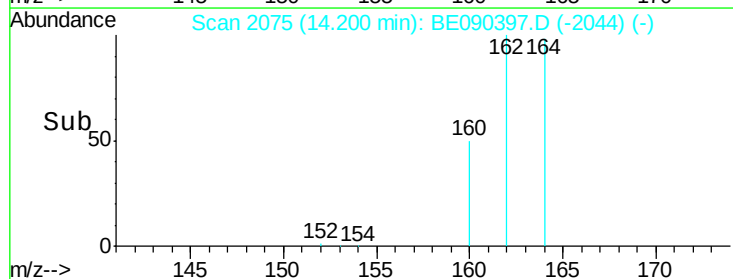
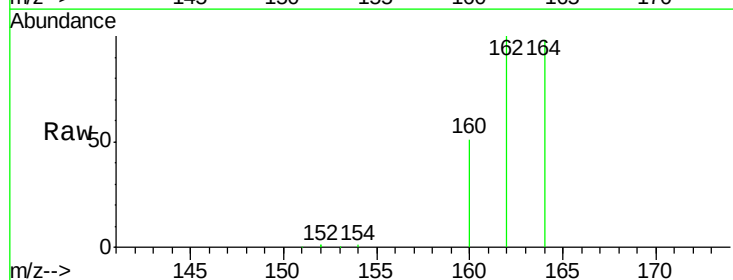
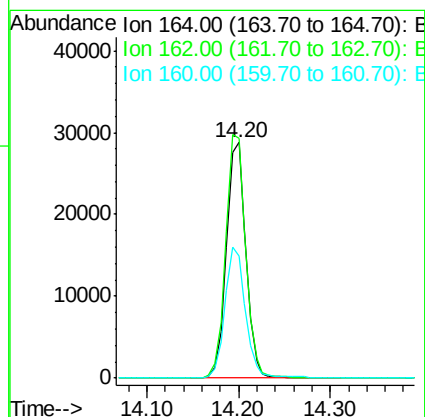
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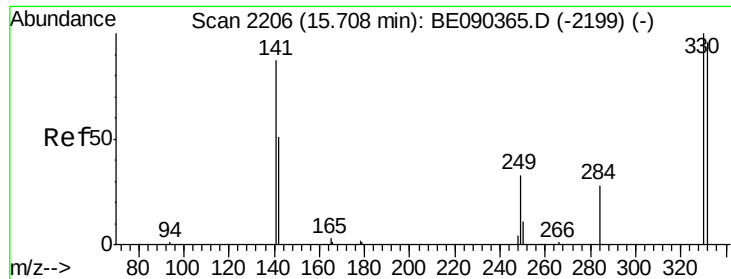
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.20 min Scan# 2075
Delta R.T. 0.00 min
Lab File: BE090397.D
Acq: 7 Aug 2015 14:50

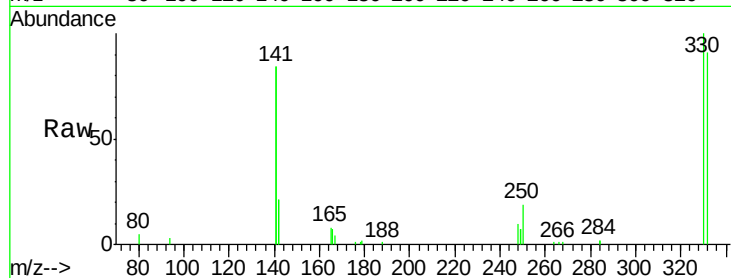
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.0	81.8	122.8
160	51.5	44.2	66.4





#13
 2,4,6-Tribromophenol
 Concen: 7.28 ng
 RT: 15.69 min Scan# 2205
 Delta R.T. -0.02 min
 Lab File: BE090397.D
 Acq: 7 Aug 2015 14:50

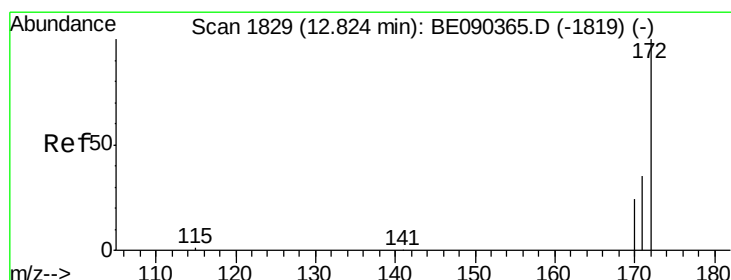
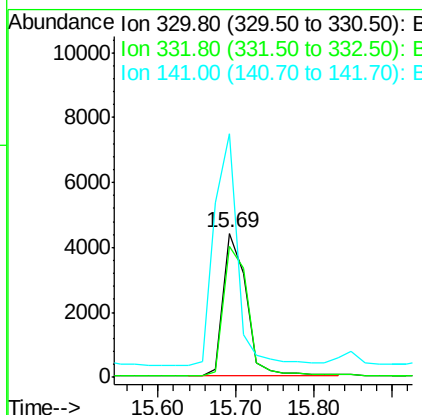
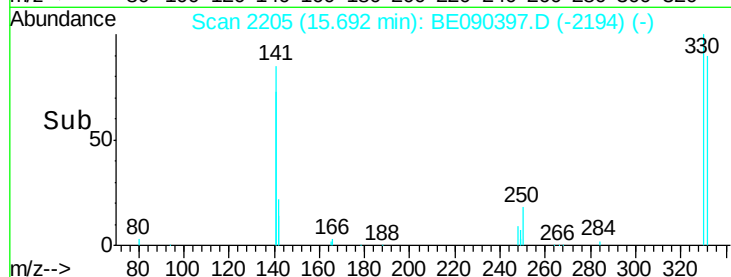
Instrument :
 BNA_E
 ClientSampleID :
 PB84854BSD



Tot Ion:330 Resp: 9011
 Ion Ratio Lower Upper
 330 100
 332 96.4 75.8 113.6
 141 165.6 114.4 171.6

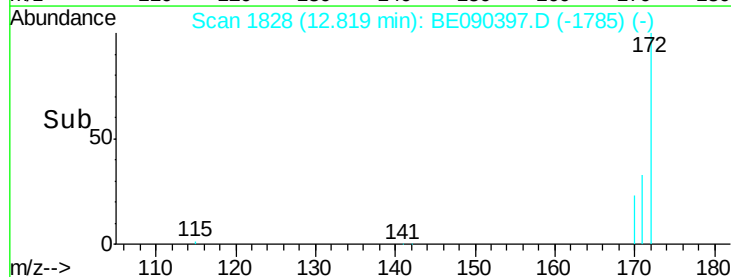
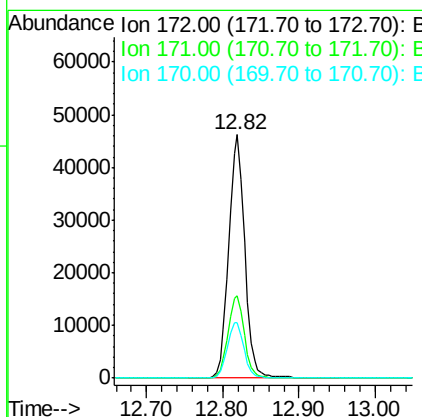
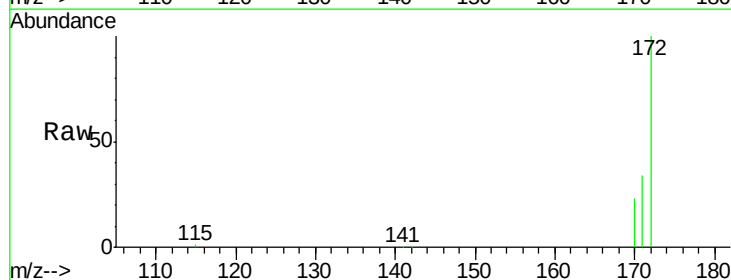
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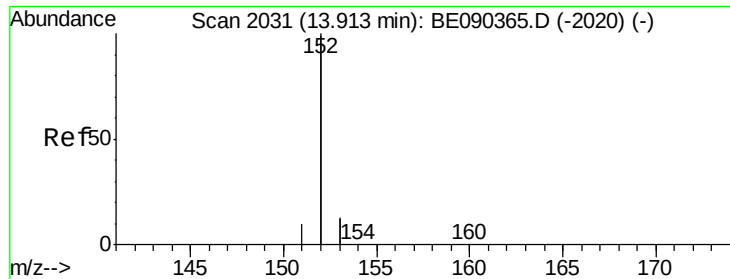
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#14
 2-Fluorobiphenyl
 Concen: 5.81 ng
 RT: 12.82 min Scan# 1828
 Delta R.T. -0.00 min
 Lab File: BE090397.D
 Acq: 7 Aug 2015 14:50

Tgt Ion:172 Resp: 67613
 Ion Ratio Lower Upper
 172 100
 171 33.7 28.5 42.7
 170 22.9 19.8 29.8





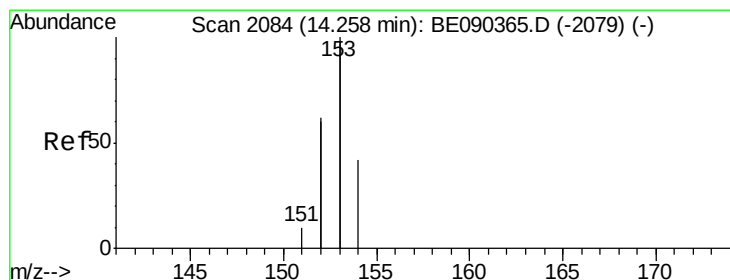
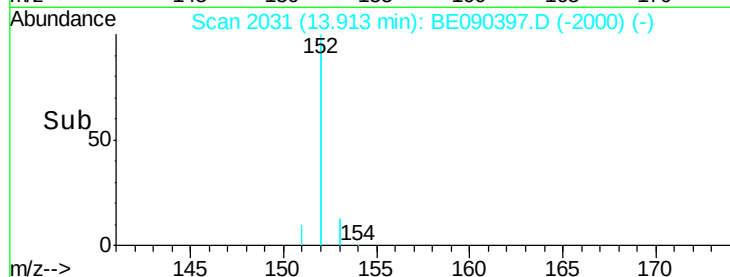
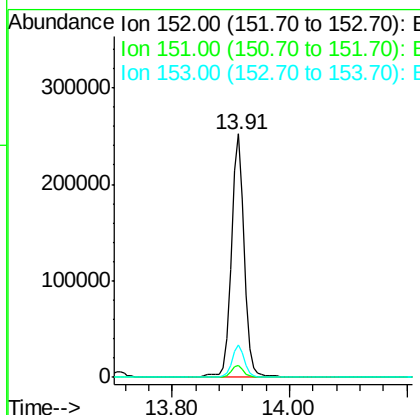
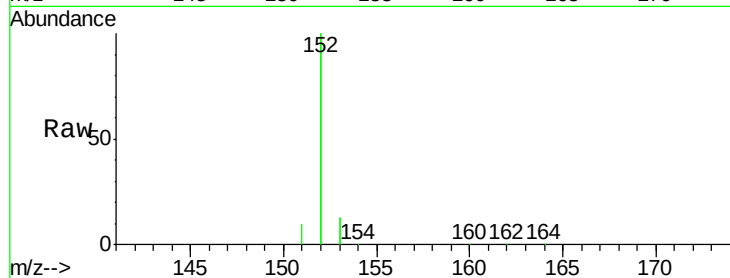
#15
Acenaphthylene
Concen: 5.50 ng
RT: 13.91 min Scan# 2031
Delta R.T. 0.00 min
Lab File: BE090397.D
Acq: 7 Aug 2015 14:50

Instrument :
BNA_E
ClientSampleId :
PB84854BSD

Tot Ion	Ratio	Lower	Upper
152	100		
151	4.8	3.8	5.8
153	13.0	10.3	15.5

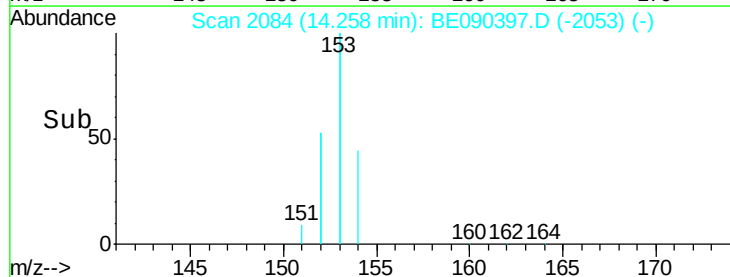
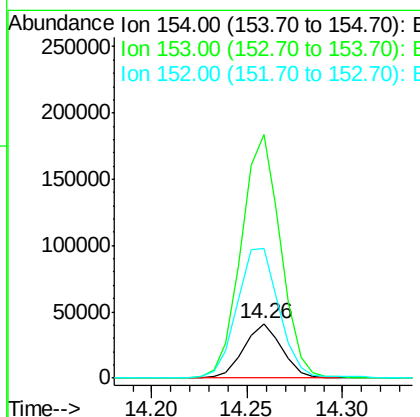
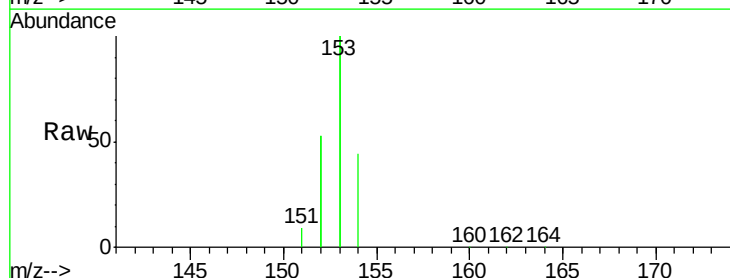
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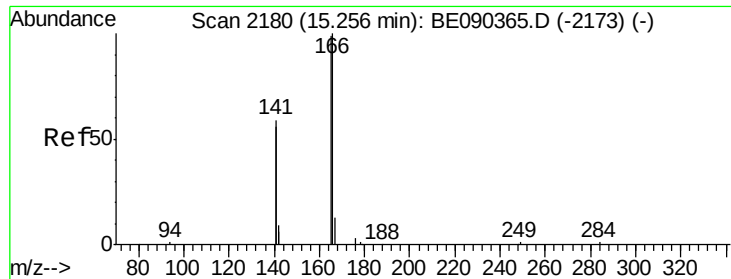
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#16
Acenaphthene
Concen: 5.32 ng
RT: 14.26 min Scan# 2084
Delta R.T. 0.00 min
Lab File: BE090397.D
Acq: 7 Aug 2015 14:50

Tgt Ion	Ratio	Lower	Upper
154	100		
153	463.1	376.2	564.2
152	264.0	235.0	352.4





#17

Fluorene

Concen: 5.47 ng

RT: 15.26 min Scan# 2180

Delta R.T. 0.00 min

Lab File: BE090397.D

Acq: 7 Aug 2015 14:50

Instrument :

BNA_E

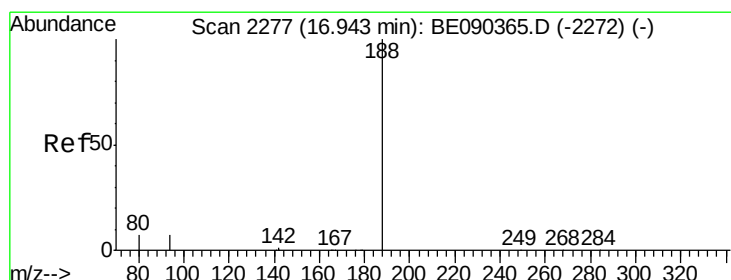
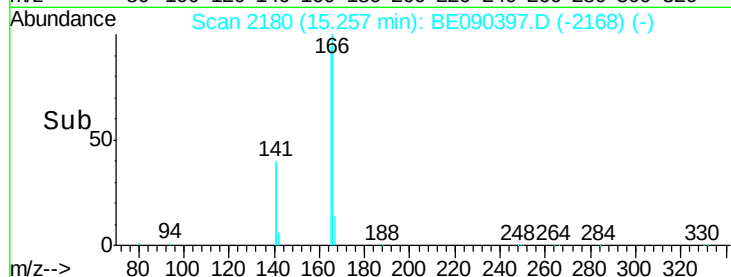
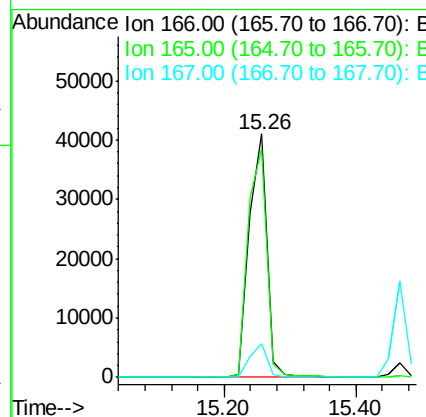
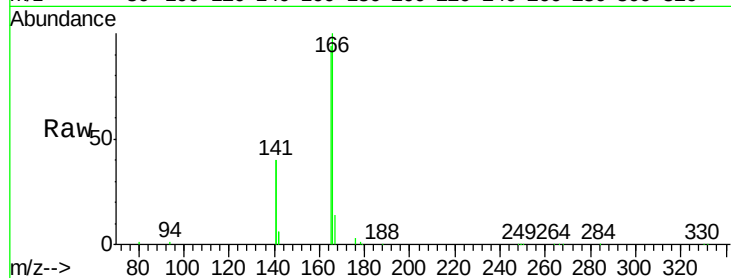
ClientSampleId :

PB84854BSD

Tot Ion:	166	Resp:	75702
Ion Ratio	Lower	Upper	
166	100		
165	100.2	81.5	122.3
167	13.4	11.4	17.0

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#18

Phenanthrene-d10

Concen: 5.00 ng

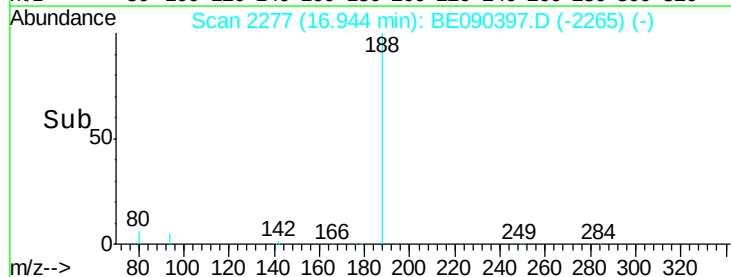
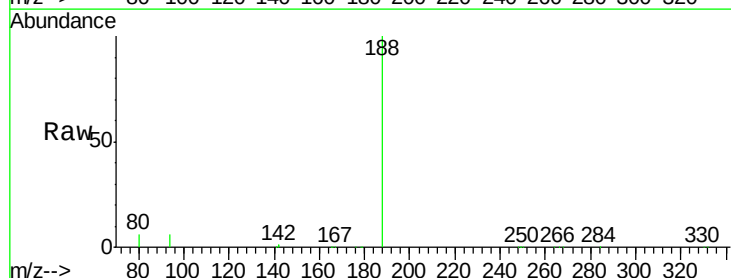
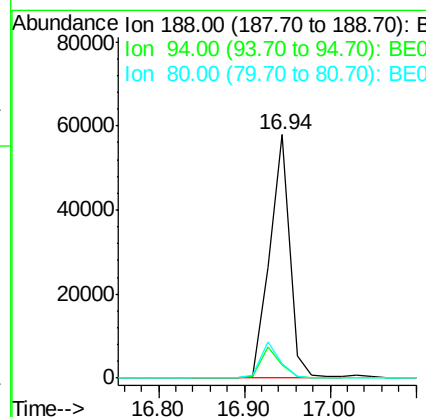
RT: 16.94 min Scan# 2277

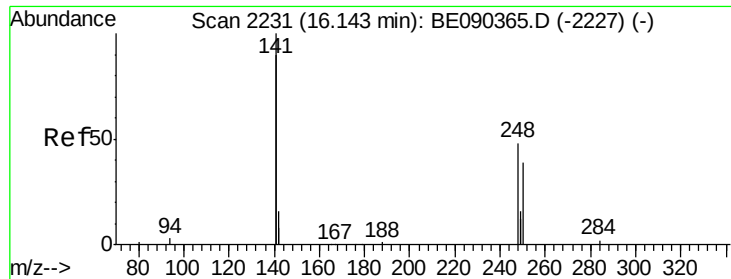
Delta R.T. 0.00 min

Lab File: BE090397.D

Acq: 7 Aug 2015 14:50

Tgt Ion:	188	Resp:	95255
Ion Ratio	Lower	Upper	
188	100		
94	5.5	5.7	8.5#
80	5.8	5.8	8.8#





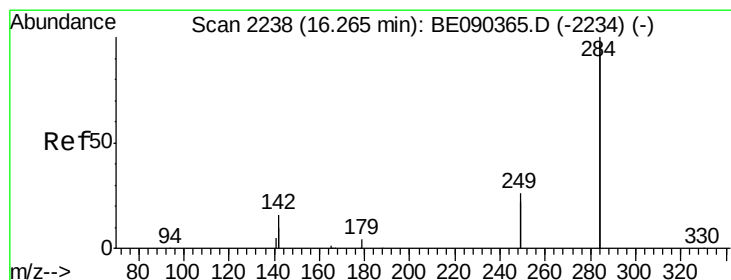
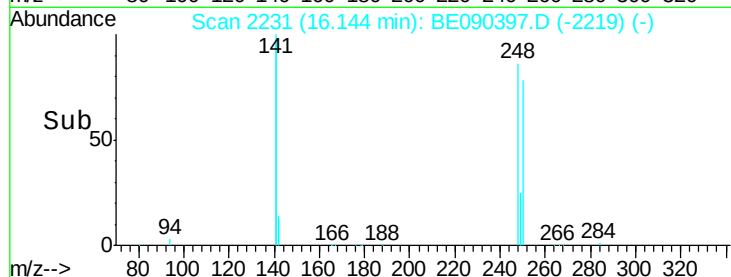
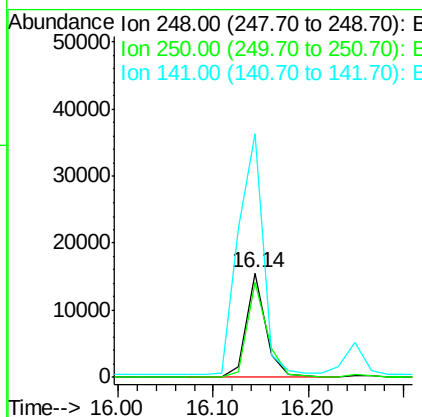
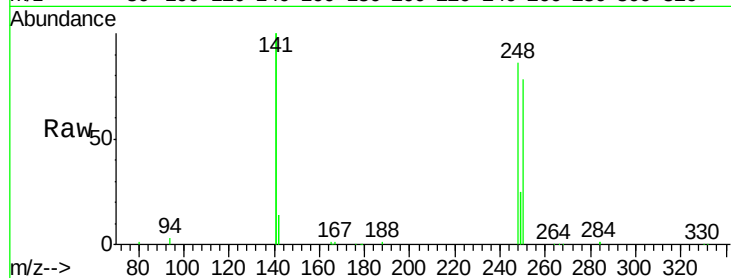
#19
4-Bromophenyl-phenylether
Concen: 5.86 ng
RT: 16.14 min Scan# 2231
Delta R.T. 0.00 min
Lab File: BE090397.D
Acq: 7 Aug 2015 14:50

Instrument :
BNA_E
ClientSampleId :
PB84854BSD

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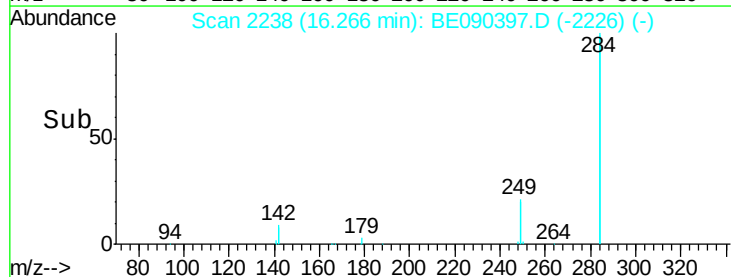
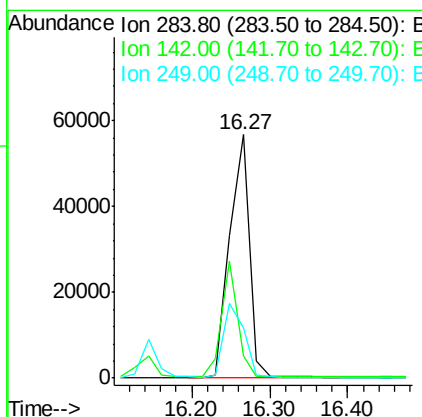
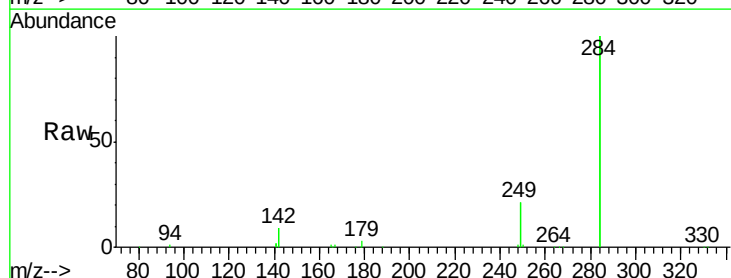
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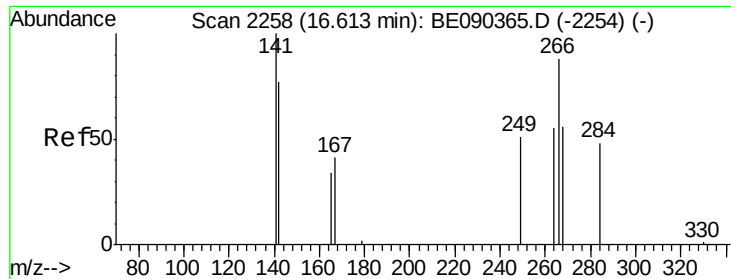
Tot Ion	Ratio	Lower	Upper
248	100		
250	95.2	79.0	118.6
141	299.8	239.5	359.3



#20
Hexachlorobenzene
Concen: 5.15 ng
RT: 16.27 min Scan# 2238
Delta R.T. 0.00 min
Lab File: BE090397.D
Acq: 7 Aug 2015 14:50

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.4	30.1	45.1
249	31.7	25.7	38.5





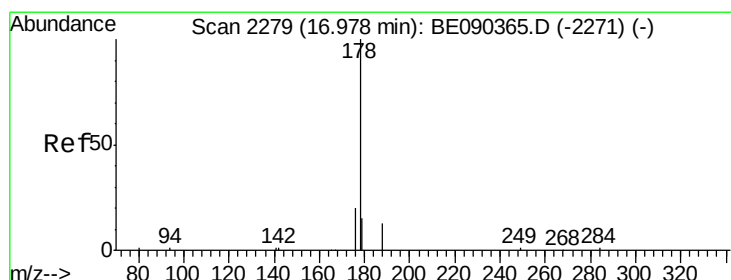
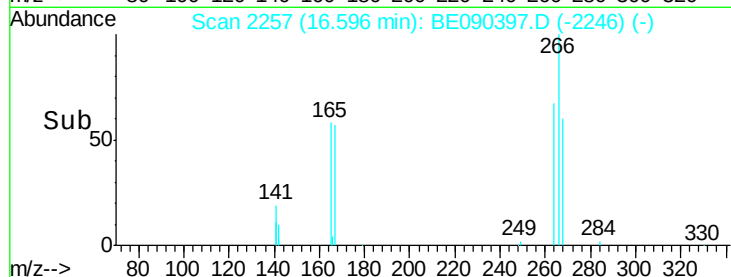
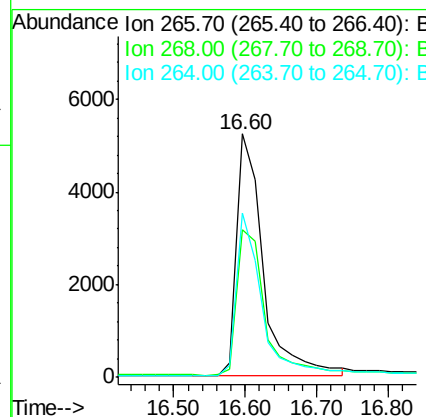
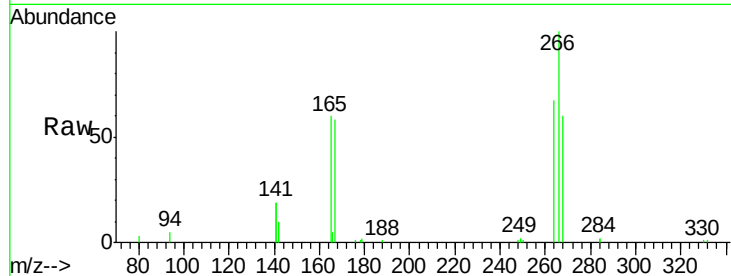
#21
 Pentachlorophenol
 Concen: 8.40 ng
 RT: 16.60 min Scan# 2257
 Delta R.T. -0.02 min
 Lab File: BE090397.D
 Acq: 7 Aug 2015 14:50

Instrument :
 BNA_E
 ClientSampleId :
 PB84854BSD

Tot Ion	Ratio	Resp	Lower	Upper
266	100	13196		
268	60.4	58.5	87.7	
264	67.2	56.0	84.0	

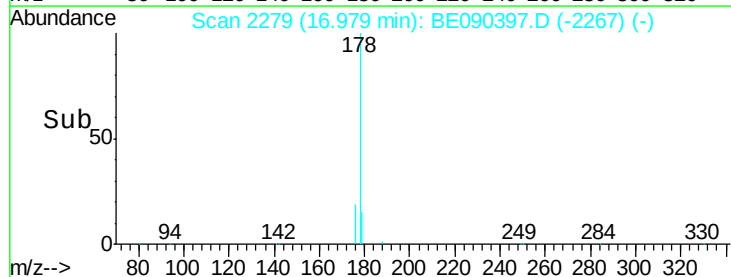
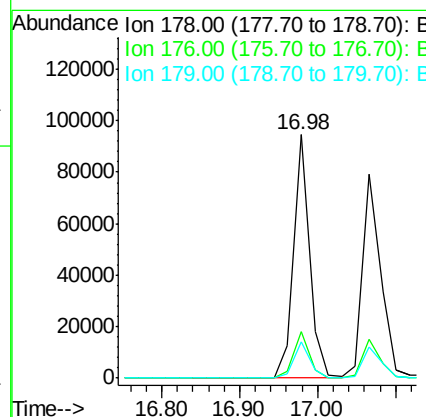
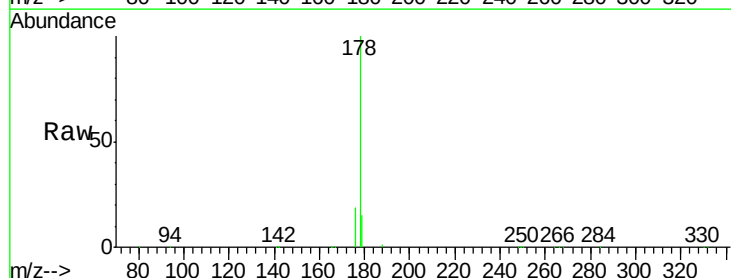
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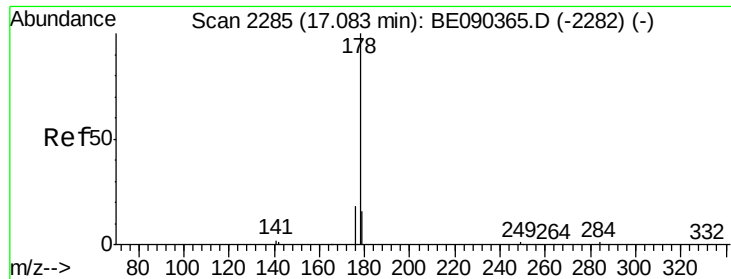
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#22
 Phenanthrene
 Concen: 5.57 ng
 RT: 16.98 min Scan# 2279
 Delta R.T. 0.00 min
 Lab File: BE090397.D
 Acq: 7 Aug 2015 14:50

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	132815		
176	18.9	15.4	23.2	
179	15.1	12.5	18.7	





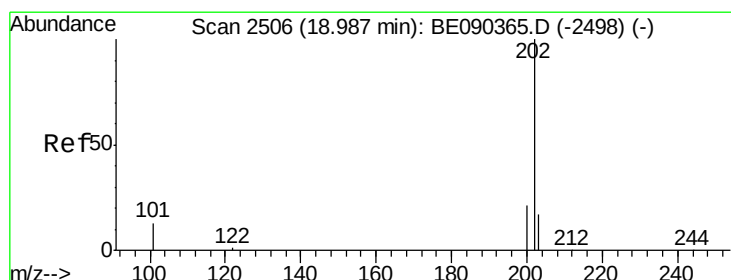
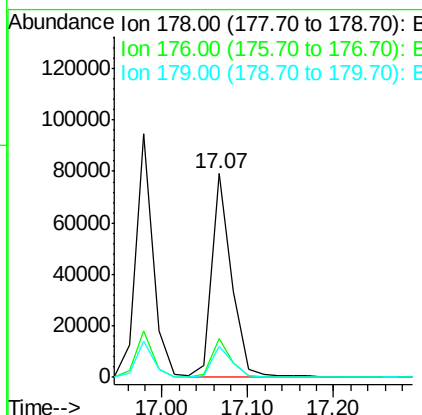
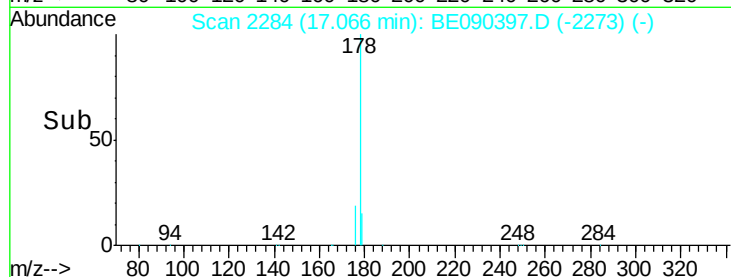
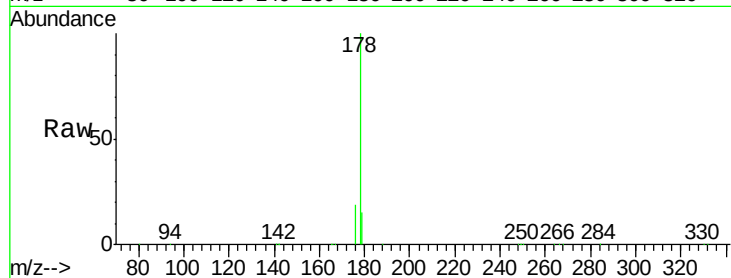
#23
 Anthracene
 Concen: 6.47 ng
 RT: 17.07 min Scan# 2284
 Delta R.T. -0.02 min
 Lab File: BE090397.D
 Acq: 7 Aug 2015 14:50

Instrument :
 BNA_E
 ClientSampleId :
 PB84854BSD

Tot Ion:	178	Resp:	126736
Ion Ratio	Lower	Upper	
178	100		
176	18.5	14.9	22.3
179	15.6	12.2	18.4

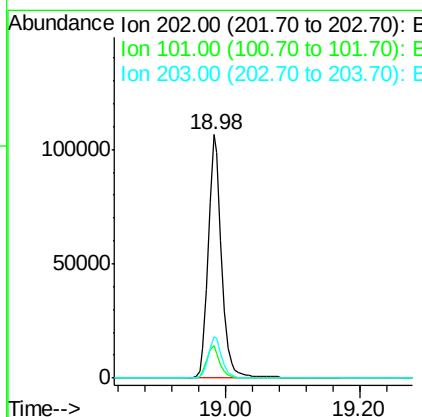
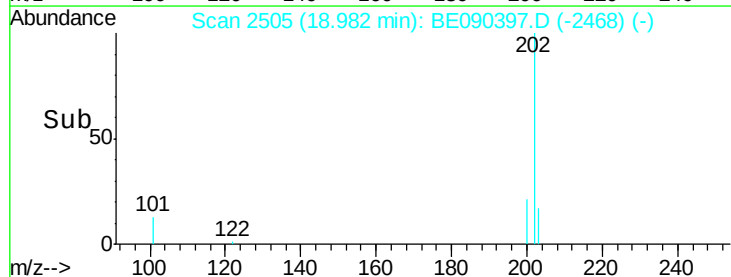
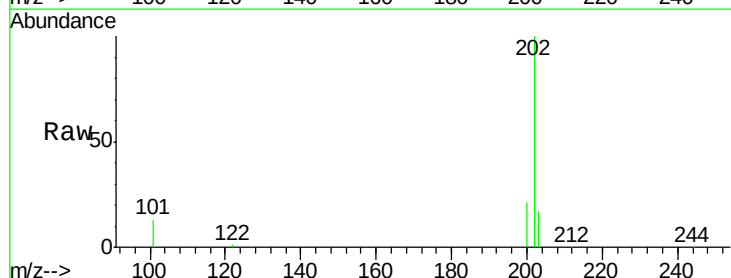
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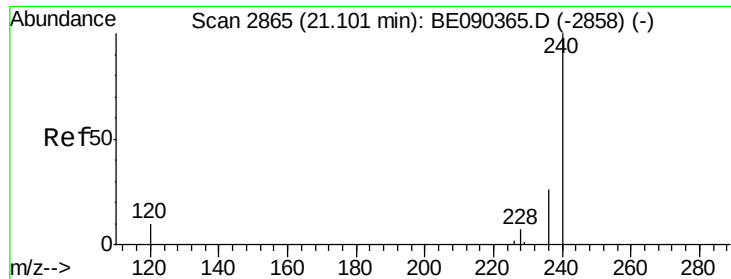
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#24
 Fluoranthene
 Concen: 6.26 ng
 RT: 18.98 min Scan# 2505
 Delta R.T. -0.01 min
 Lab File: BE090397.D
 Acq: 7 Aug 2015 14:50

Tgt Ion:	202	Resp:	146850
Ion Ratio	Lower	Upper	
202	100		
101	13.0	10.3	15.5
203	17.2	13.7	20.5





#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.10 min Scan# 2865

Delta R.T. 0.00 min

Lab File: BE090397.D

Acq: 7 Aug 2015 14:50

Instrument :

BNA_E

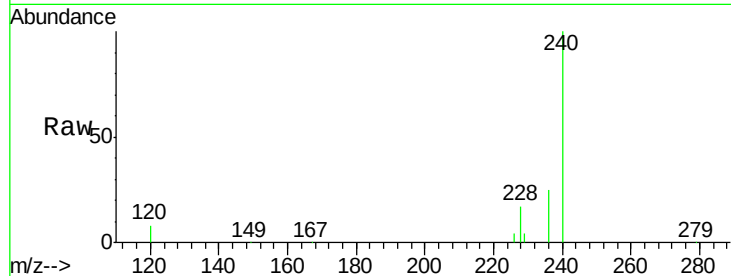
ClientSampleId :

PB84854BSD

Tot Ion	Ratio	Lower	Upper
240	100		
120	8.3	8.3	12.5#
236	25.3	21.0	31.4

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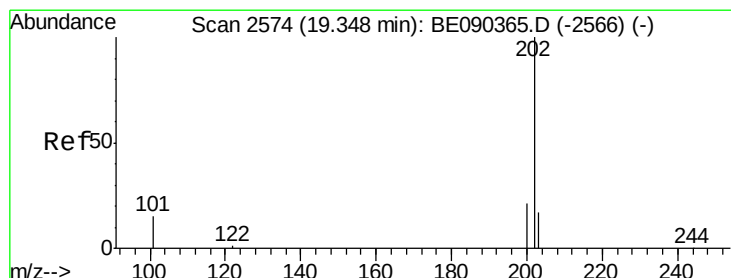
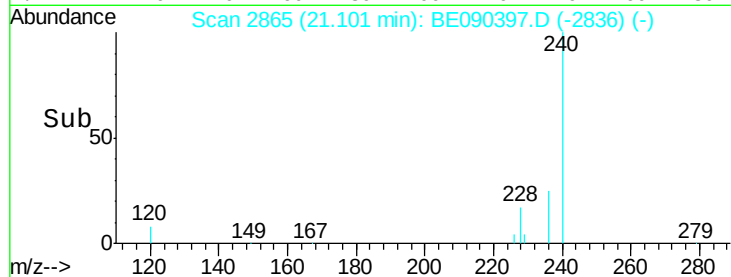
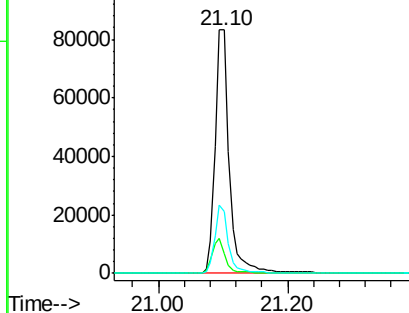
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#26

Pyrene

Concen: 5.98 ng

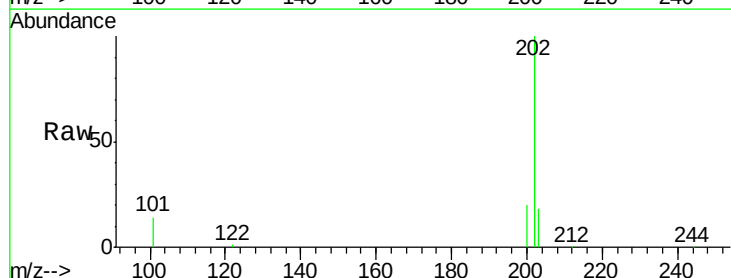
RT: 19.35 min Scan# 2574

Delta R.T. 0.00 min

Lab File: BE090397.D

Acq: 7 Aug 2015 14:50

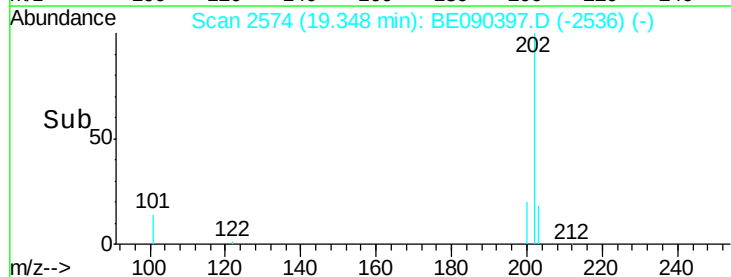
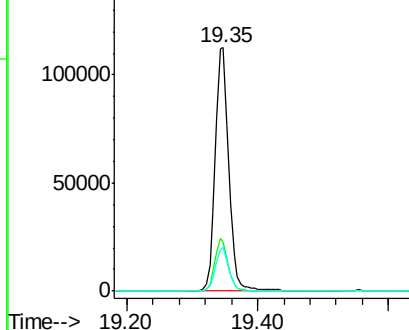
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.7	25.1
203	17.9	13.8	20.8

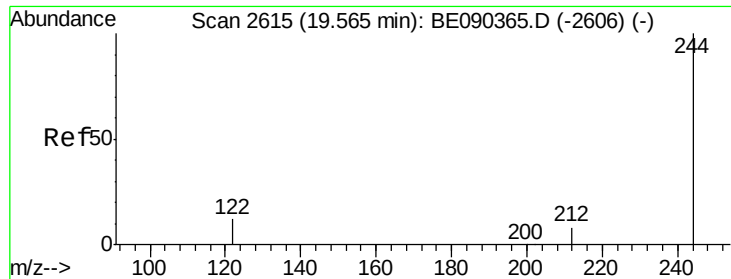


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Terphenyl-d14

Concen: 5.96 ng

RT: 19.56 min Scan# 2614

Delta R.T. -0.01 min

Lab File: BE090397.D

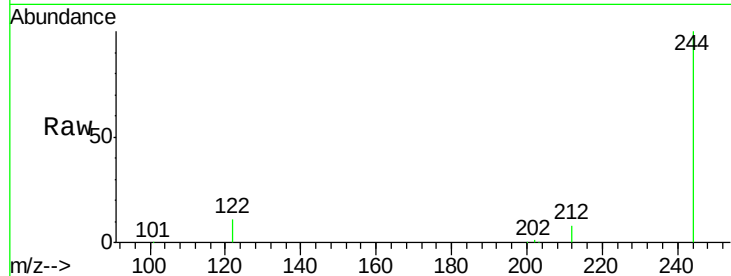
Acq: 7 Aug 2015 14:50

Instrument :

BNA_E

ClientSampleId :

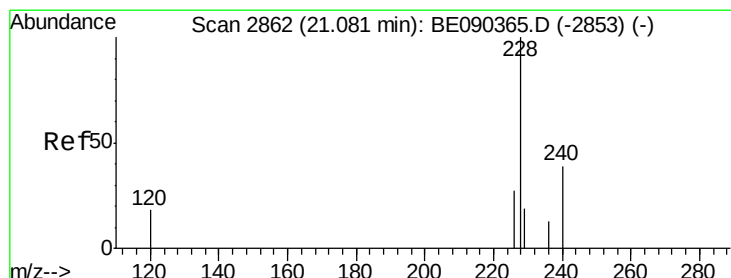
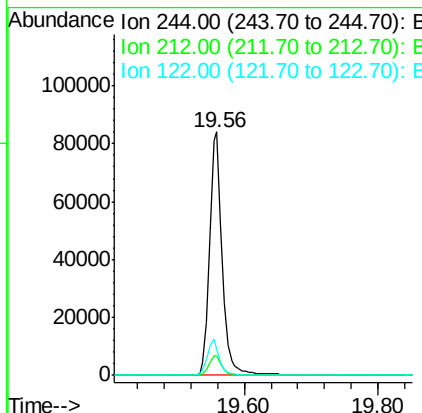
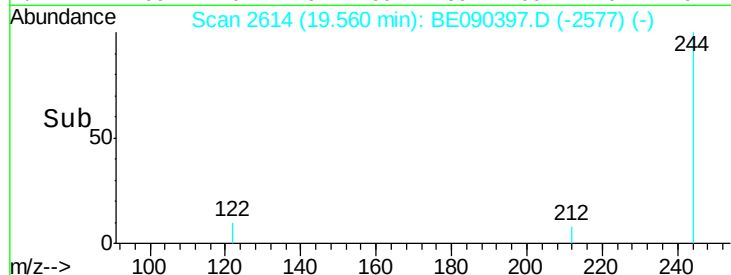
PB84854BSD



Tot Ion:	244	Resp:	110271
Ion Ratio	Lower	Upper	
244	100		
212	7.9	6.6	9.8
122	10.6	10.2	15.4

Manual Integrations
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#28

Benzo(a)anthracene

Concen: 5.72 ng

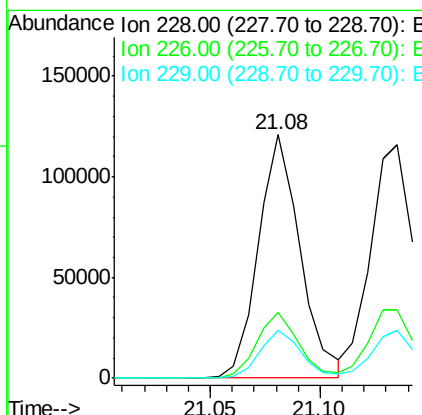
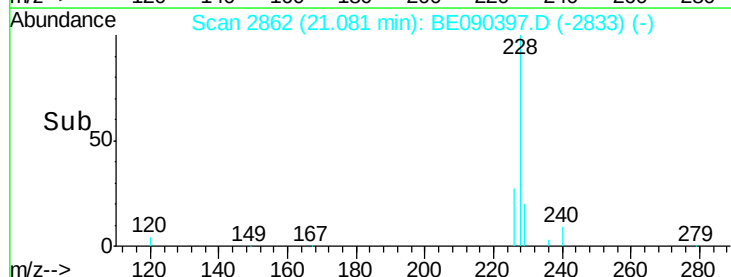
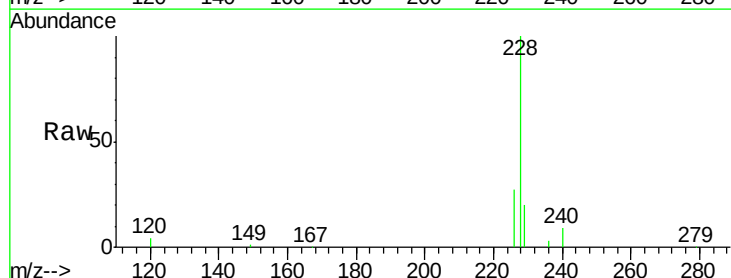
RT: 21.08 min Scan# 2862

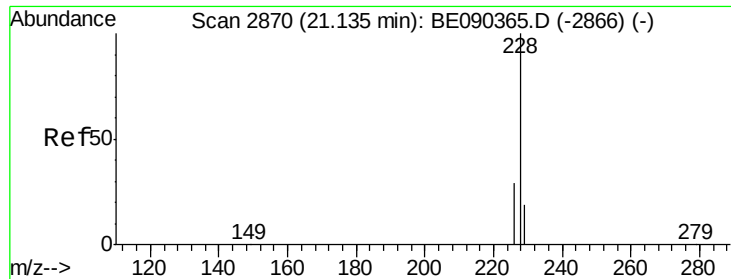
Delta R.T. 0.00 min

Lab File: BE090397.D

Acq: 7 Aug 2015 14:50

Tgt Ion:	228	Resp:	159094
Ion Ratio	Lower	Upper	
228	100		
226	27.0	21.9	32.9
229	19.5	15.4	23.0





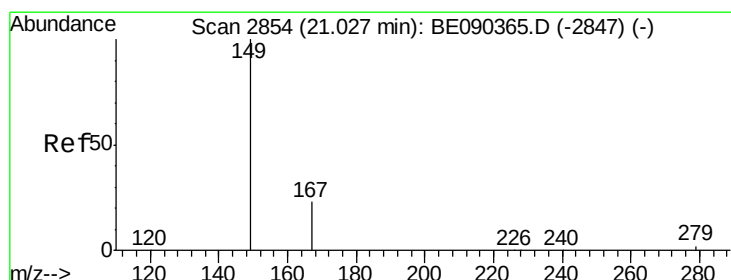
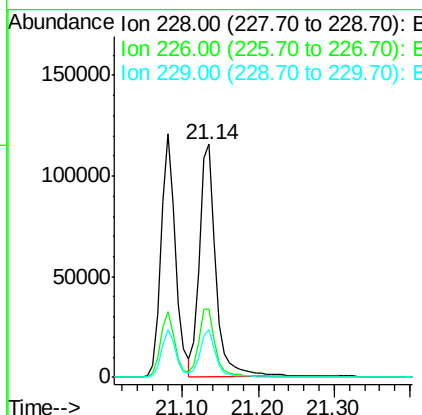
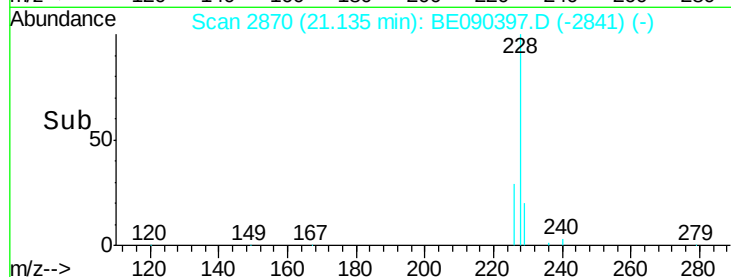
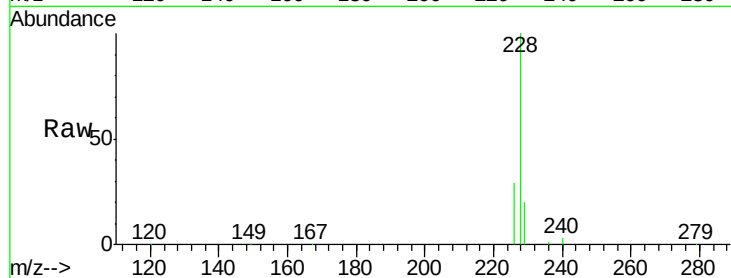
#29
Chrysene
Concen: 5.20 ng
RT: 21.14 min Scan# 2870
Delta R.T. 0.00 min
Lab File: BE090397.D
Acq: 7 Aug 2015 14:50

Instrument :
BNA_E
ClientSampleId :
PB84854BSD

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.2	23.1	34.7
229	20.4	15.8	23.8

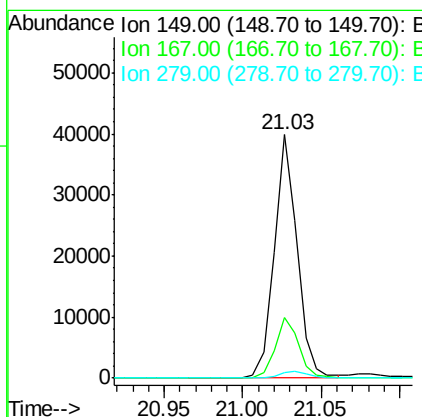
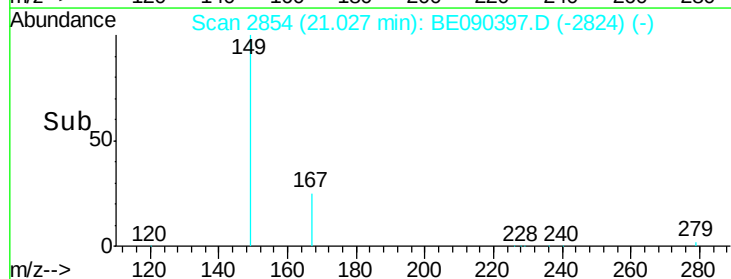
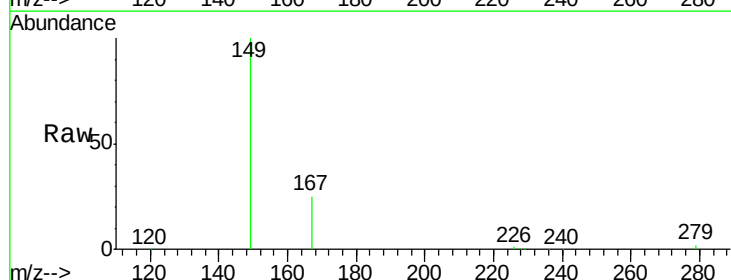
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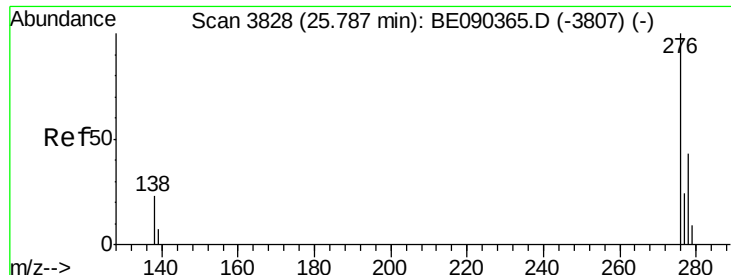
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#30
Bis(2-ethylhexyl)phthalate
Concen: 4.27 ng
RT: 21.03 min Scan# 2854
Delta R.T. 0.00 min
Lab File: BE090397.D
Acq: 7 Aug 2015 14:50

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.3	19.8	29.8
279	3.0	2.4	3.6





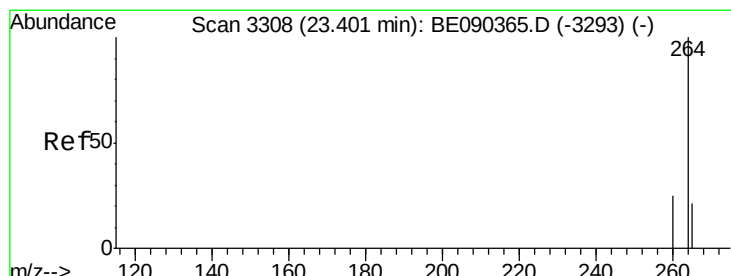
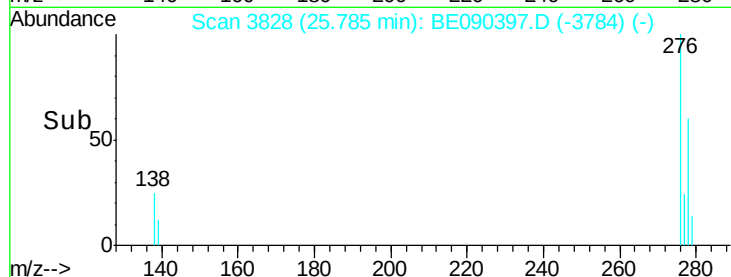
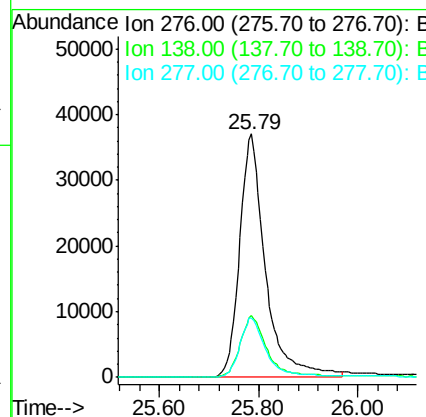
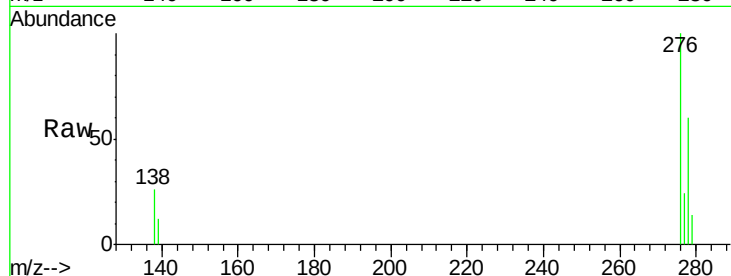
#31
Indeno(1,2,3-cd)pyrene
Concen: 4.44 ng
RT: 25.79 min Scan# 3828
Delta R.T. -0.00 min
Lab File: BE090397.D
Acq: 7 Aug 2015 14:50

Instrument :
BNA_E
ClientSampleId :
PB84854BSD

Tot Ion	Ratio	Resp	Lower	Upper
276	100	133766		
138	26.3		18.8	28.2
277	24.8		18.2	27.4

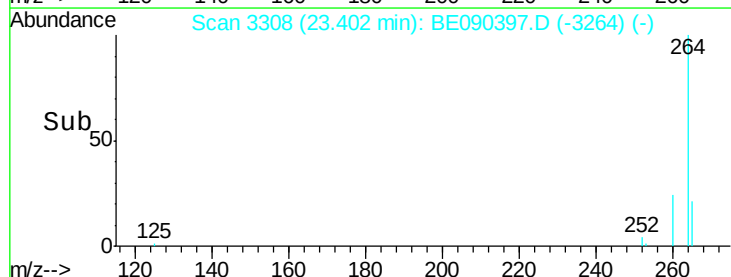
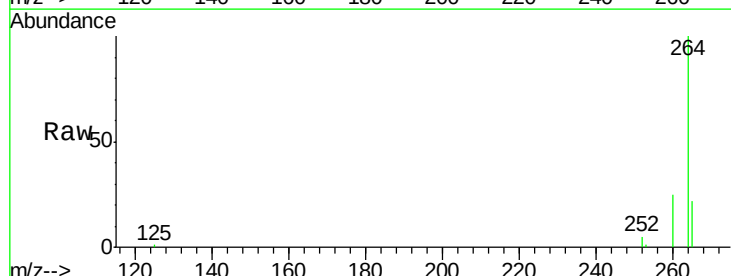
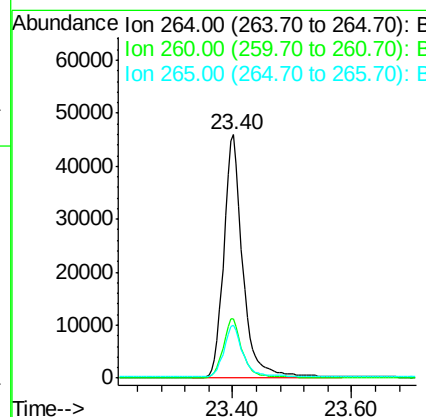
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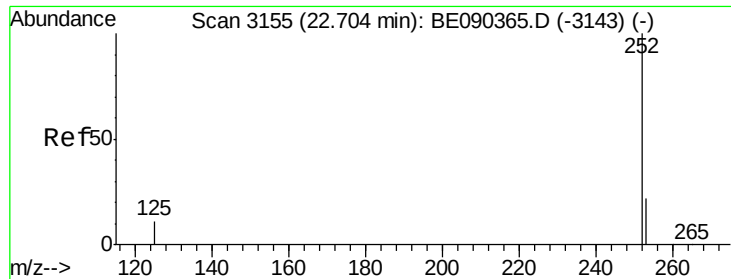
MMDadoda
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#32
Perylene-d12
Concen: 5.00 ng
RT: 23.40 min Scan# 3308
Delta R.T. 0.00 min
Lab File: BE090397.D
Acq: 7 Aug 2015 14:50

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	102437		
260	24.5		20.1	30.1
265	21.7		17.2	25.8





#33

Benzo(b)fluoranthene

Concen: 5.78 ng

RT: 22.70 min Scan# 3154

Delta R.T. -0.00 min

Lab File: BE090397.D

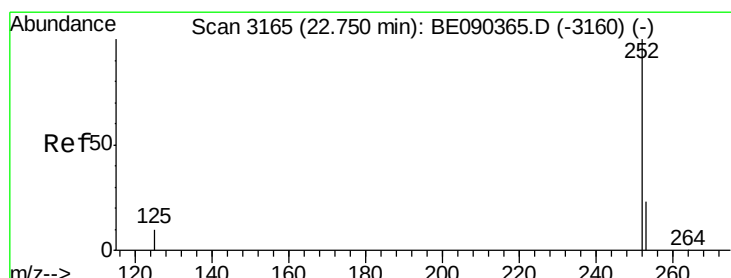
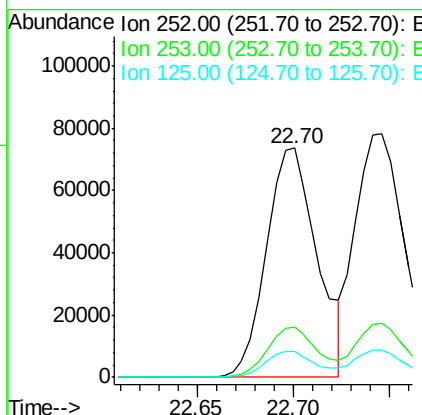
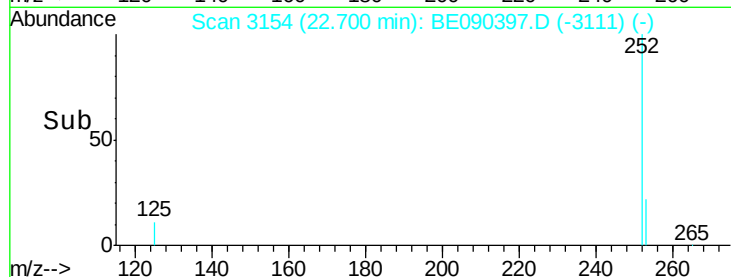
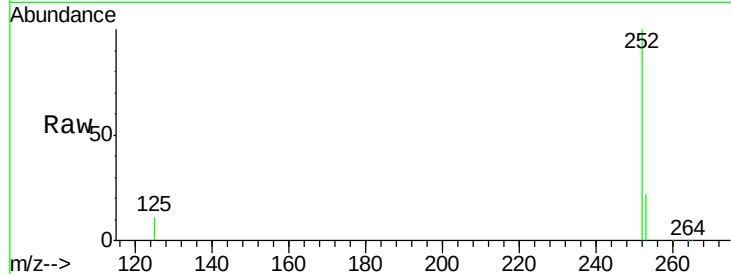
Acq: 7 Aug 2015 14:50

Instrument :
BNA_E
ClientSampleId :
PB84854BSD

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	18.1	27.1
125	11.1	9.4	14.2

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#34

Benzo(k)fluoranthene

Concen: 5.62 ng m

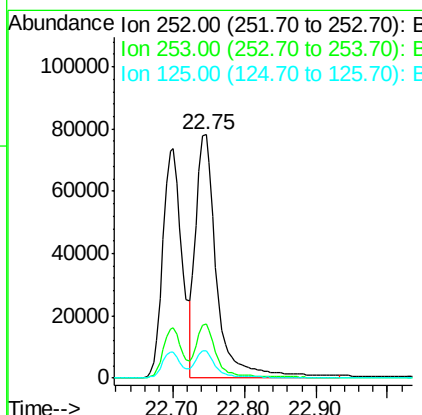
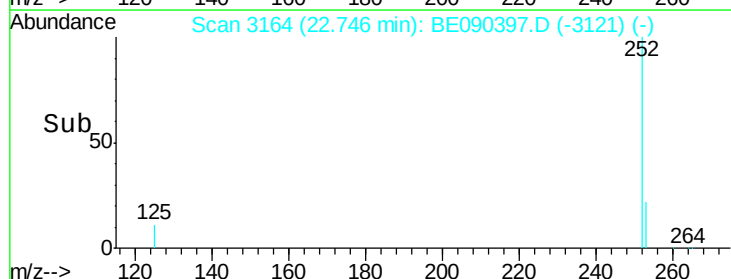
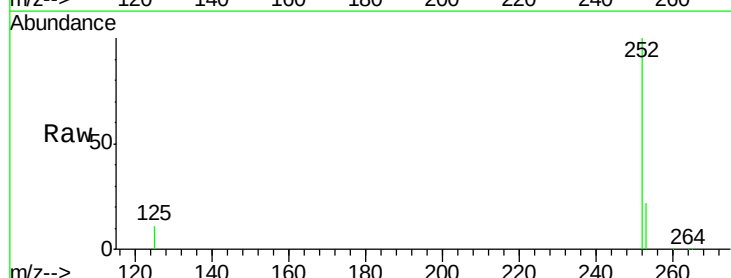
RT: 22.75 min Scan# 3164

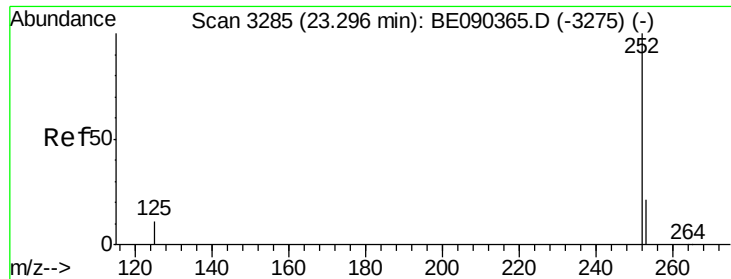
Delta R.T. -0.00 min

Lab File: BE090397.D

Acq: 7 Aug 2015 14:50

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.1	27.1
125	11.0	9.1	13.7





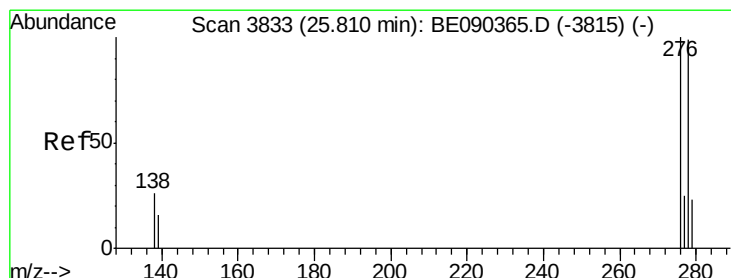
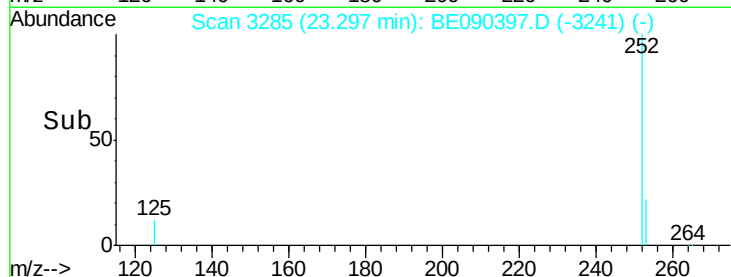
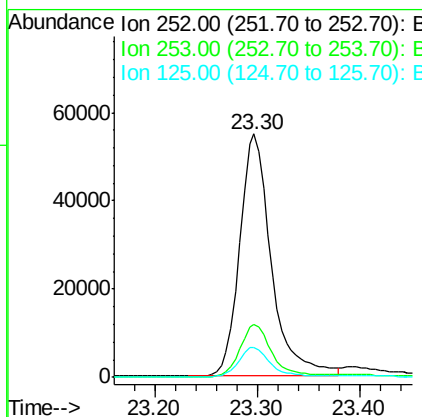
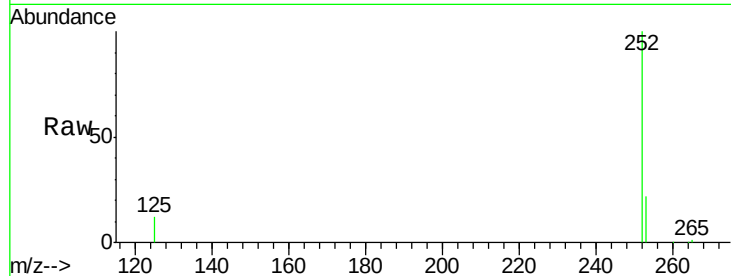
#35
Benzo(a)pyrene
Concen: 5.38 ng
RT: 23.30 min Scan# 3285
Delta R.T. 0.00 min
Lab File: BE090397.D
Acq: 7 Aug 2015 14:50

Instrument :
BNA_E
ClientSampleId :
PB84854BSD

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.6	26.4
125	12.2	9.8	14.6

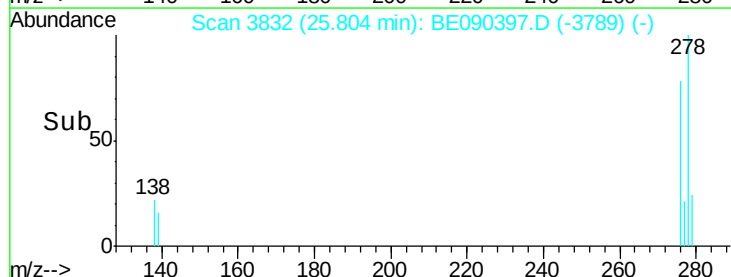
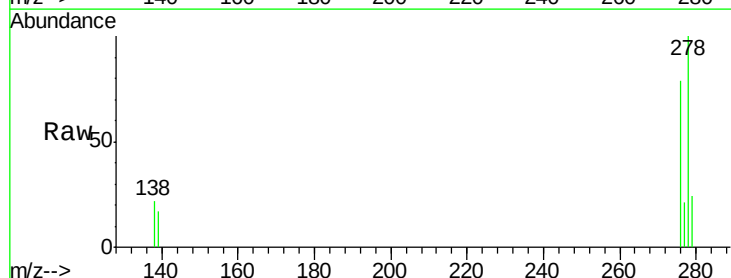
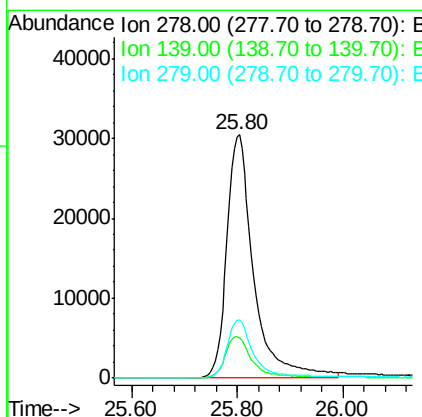
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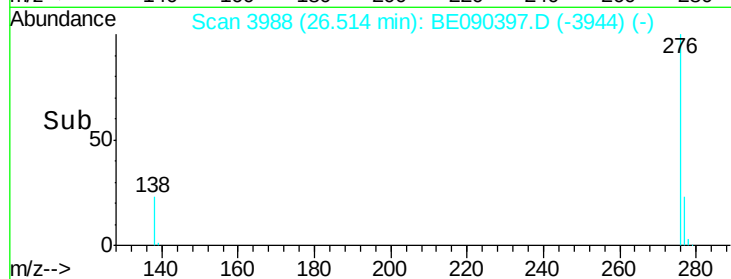
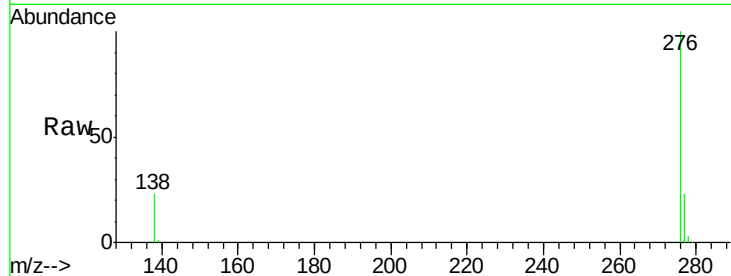
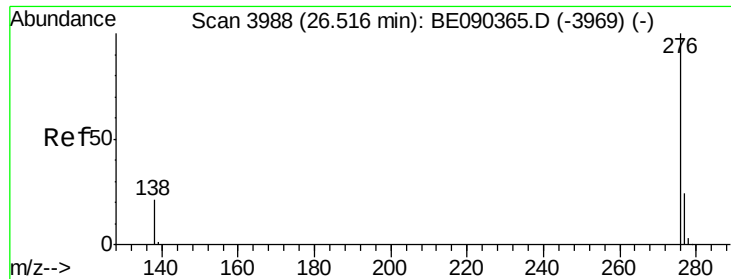
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#36
Dibenzo(a,h)anthracene
Concen: 4.97 ng
RT: 25.80 min Scan# 3832
Delta R.T. -0.01 min
Lab File: BE090397.D
Acq: 7 Aug 2015 14:50

Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.7	14.2	21.4
279	23.8	20.1	30.1





#37

Benzo(a,h,i)perylene

Concen: 6.21 ng

RT: 26.51 min Scan# 3988

Delta R.T. -0.00 min

Lab File: BE090397.D

Acq: 7 Aug 2015 14:50

Tot Ion:	276	Resp:	117537
Ion Ratio	Lower	Upper	
276	100		
277	23.4	20.1	30.1
138	23.0	18.1	27.1

Instrument :

BNA_E

ClientSampleId :

PB84854BSD

Manual Integrations
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