

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE081115\
 Data File : BE090431.D
 Acq On : 11 Aug 2015 16:57
 Operator : UM/IZ
 Sample : PB84961BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB84961BS

Manual Integrations
 APPROVED

MMDadoda
 8/12/2015 3:55:32 PM

Quant Time: Aug 12 04:23:47 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	22087	5.00	ng	0.00
6) Naphthalene-d8	10.34	136	102876	5.00	ng	0.00
12) Acenaphthene-d10	14.20	164	59947	5.00	ng	0.00
18) Phenanthrene-d10	16.94	188	139144	5.00	ng	0.00
25) Chrysene-d12	21.09	240	167383	5.00	ng	0.00
32) Perylene-d12	23.40	264	144829	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.22	112	40802	12.31	ng	0.00
5) Phenol-d6	6.76	99	65773	9.11	ng	-0.01
7) Nitrobenzene-d5	8.72	82	32598	3.94	ng	-0.01
13) 2,4,6-Tribromophenol	15.69	330	19280	9.60	ng	-0.02
14) 2-Fluorobiphenyl	12.82	172	73086	4.43	ng	0.00
27) Terphenyl-d14	19.55	244	118482	4.80	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.19	88	11228	4.30	ng	98
3) n-Nitrosodimethylamine	3.49	42	14766	4.32	ng	# 87
8) Nitrobenzene	8.76	77	35804	4.04	ng	97
9) Naphthalene	10.38	128	92773	4.08	ng	98
10) Hexachlorobutadiene	10.68	225	15554	4.52	ng	100
11) 2-Methylnaphthalene	12.01	142	62764	4.76	ng	96
15) Acenaphthylene	13.91	152	442531	4.56	ng	100
16) Acenaphthene	14.26	154	65003	4.31	ng	87
17) Fluorene	15.26	166	87751	4.48	ng	97
19) 4-Bromophenyl-phenylether	16.14	248	24658	4.56	ng	94
20) Hexachlorobenzene	16.26	284	109035	3.90	ng	99
21) Pentachlorophenol	16.60	266	18387	8.16	ng	91
22) Phenanthrene	16.98	178	150994	4.34	ng	100
23) Anthracene	17.07	178	147068	5.14	ng	99
24) Fluoranthene	18.98	202	171970	5.02	ng	99
26) Pyrene	19.34	202	186394	5.14	ng	99
28) Benzo(a)anthracene	21.08	228	177419	4.78	ng	99
29) Chrysene	21.13	228	191629m	4.27	ng	
30) Bis(2-ethylhexyl)phthalate	21.03	149	69410	5.12	ng	99
31) Indeno(1,2,3-cd)pyrene	25.78	276	155491	3.90	ng	95
33) Benzo(b)fluoranthene	22.70	252	146903	4.51	ng	99
34) Benzo(k)fluoranthene	22.74	252	178372m	4.42	ng	
35) Benzo(a)pyrene	23.29	252	137417	4.46	ng	100
36) Dibenzo(a,h)anthracene	25.80	278	124341	4.15	ng	98
37) Benzo(g,h,i)perylene	26.51	276	138215	5.17	ng	98

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

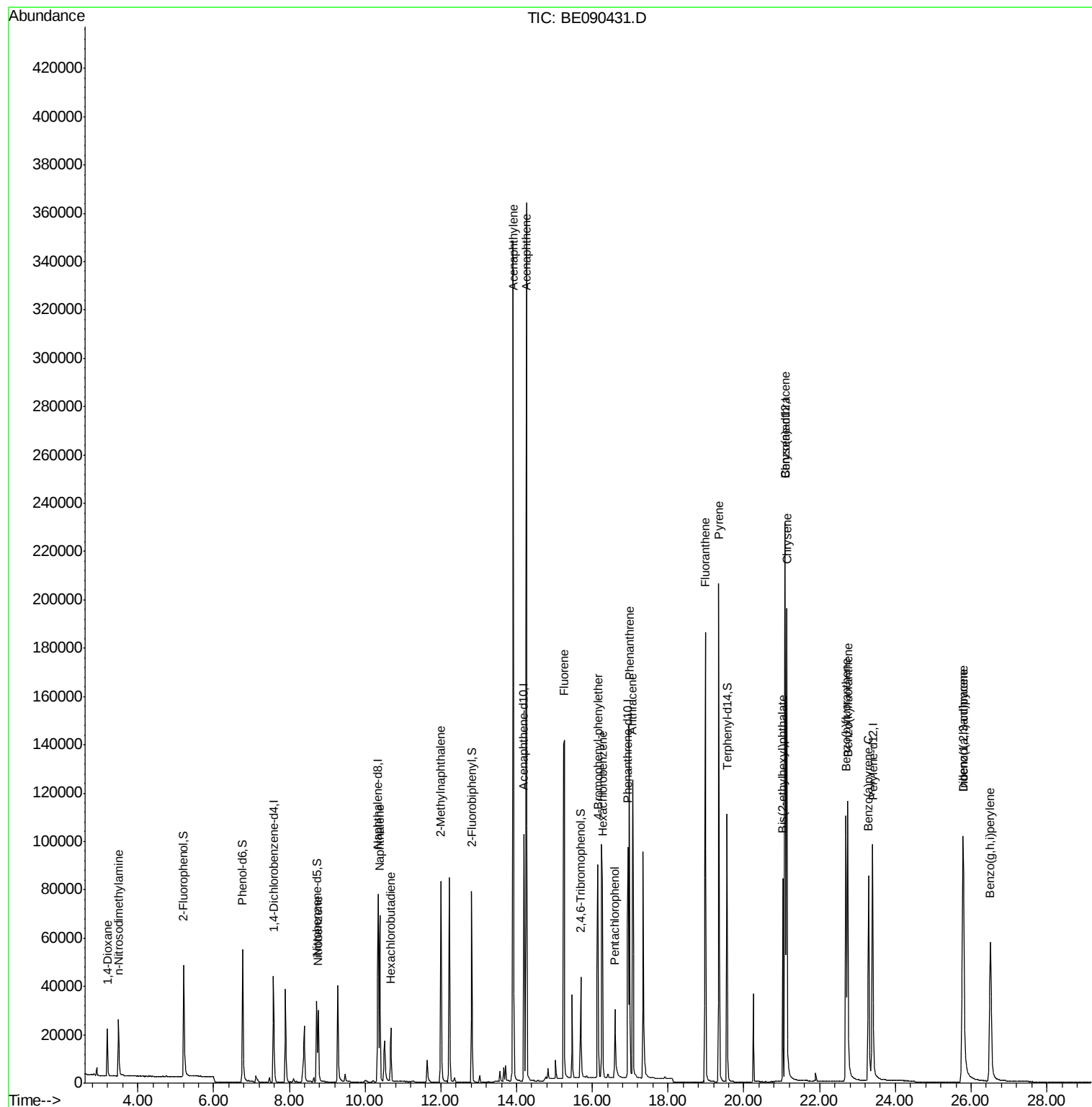
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE081115\
Data File : BE090431.D
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Manual Integrations
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Quant Time: Aug 12 04:23:47 2015
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE080515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 06 12:28:08 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.58 min Scan# 845

Delta R.T. -0.00 min

Lab File: BE090431.D

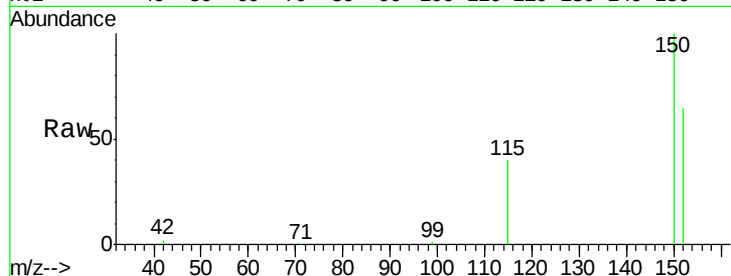
Acq: 11 Aug 2015 16:57

Instrument :

BNA_E

ClientSampleId :

PB84961BS



Tgt Ion:152 Resp: 22087

Ion Ratio Lower Upper

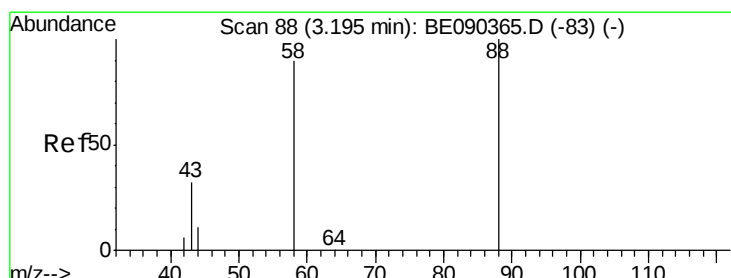
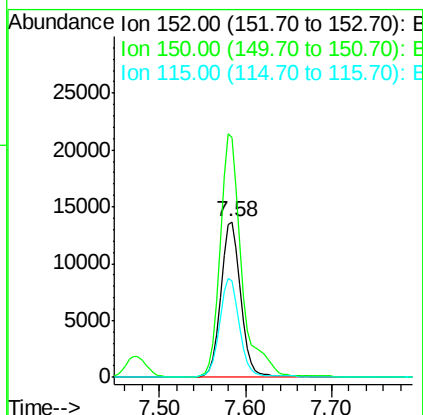
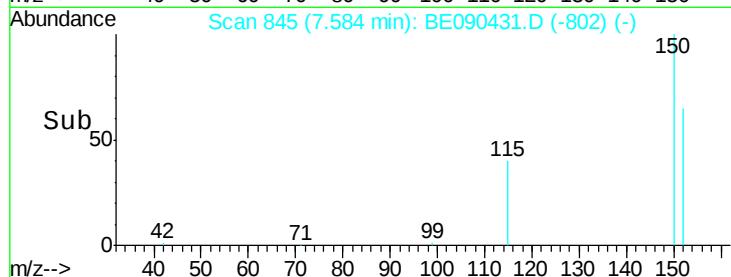
152 100

150 154.2 123.0 184.4

115 61.9 48.9 73.3

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#2

1,4-Dioxane

Concen: 4.30 ng

RT: 3.19 min Scan# 88

Delta R.T. -0.00 min

Lab File: BE090431.D

Acq: 11 Aug 2015 16:57

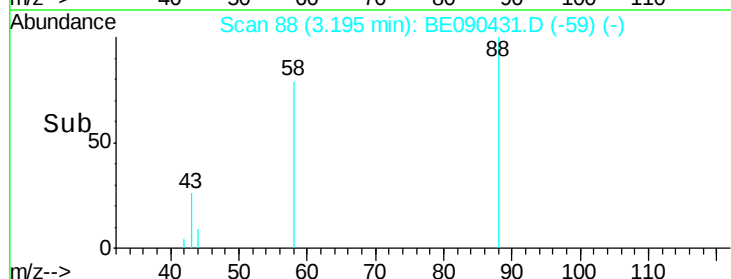
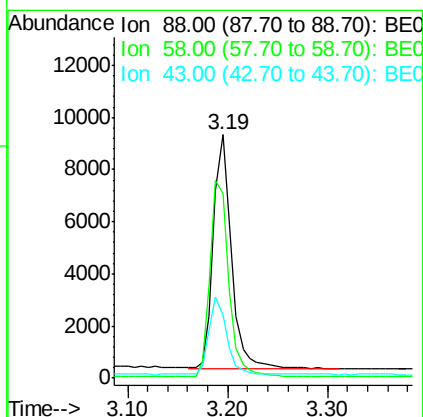
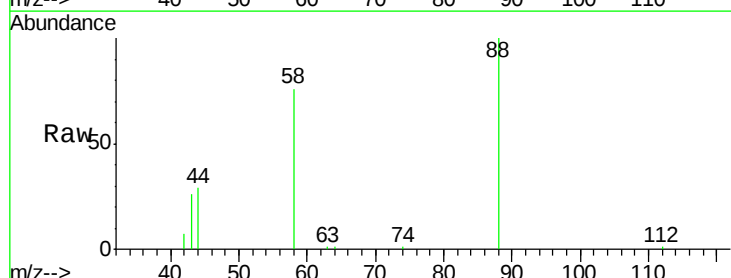
Tgt Ion: 88 Resp: 11228

Ion Ratio Lower Upper

88 100

58 87.8 70.0 105.0

43 32.7 28.4 42.6





#3

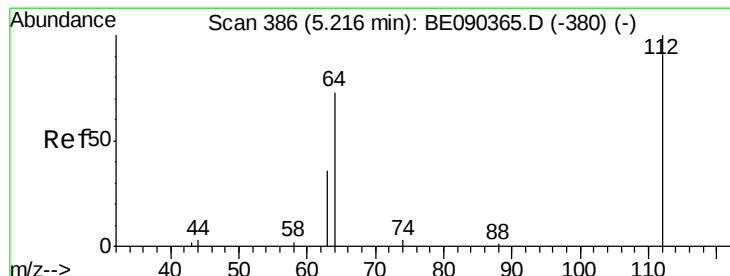
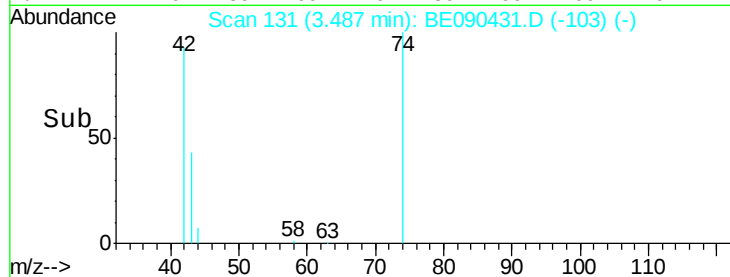
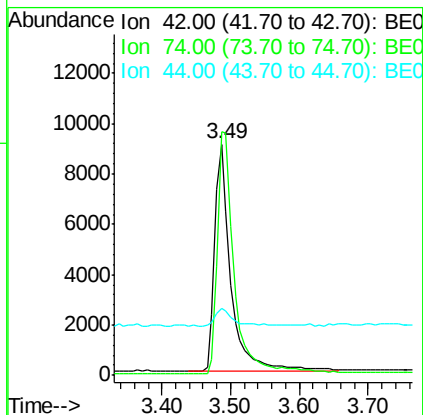
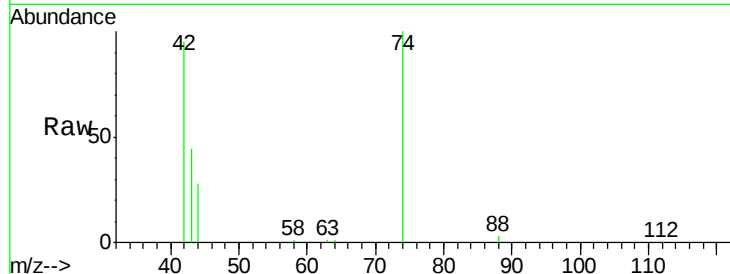
n-Nitrosodimethylamine
 Concen: 4.32 ng
 RT: 3.49 min Scan# 131
 Delta R.T. -0.01 min
 Lab File: BE090431.D
 Acq: 11 Aug 2015 16:57

Instrument :
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Manual Integrations
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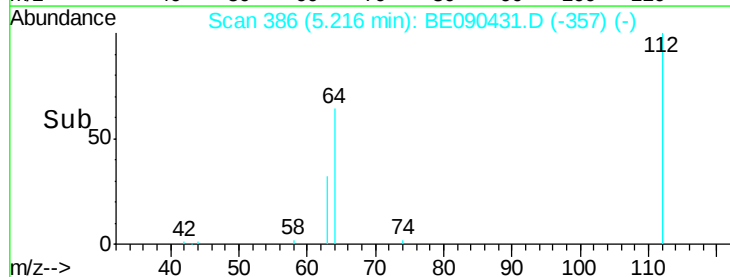
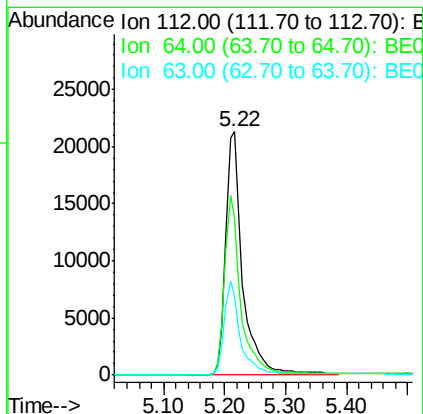
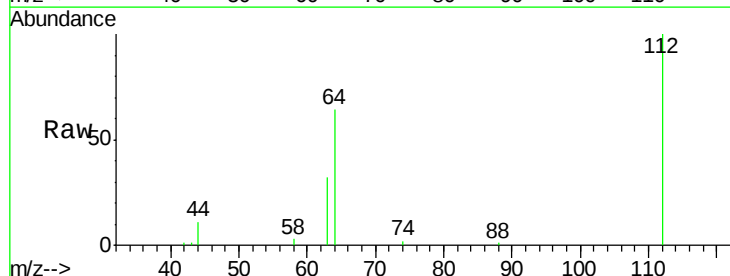
Tgt Ion: 42 Resp: 14766
 Ion Ratio Lower Upper
 42 100
 74 106.8 75.2 112.8
 44 8.5 8.7 13.1#



#4

2-Fluorophenol
 Concen: 12.31 ng
 RT: 5.22 min Scan# 386
 Delta R.T. -0.00 min
 Lab File: BE090431.D
 Acq: 11 Aug 2015 16:57

Tgt Ion: 112 Resp: 40802
 Ion Ratio Lower Upper
 112 100
 64 70.3 37.1 55.7#
 63 36.5 19.5 29.3#





#5

Phenol-d6

Concen: 9.11 ng

RT: 6.76 min Scan# 665

Delta R.T. -0.01 min

Lab File: BE090431.D

Acq: 11 Aug 2015 16:57

Instrument :

BNA_E

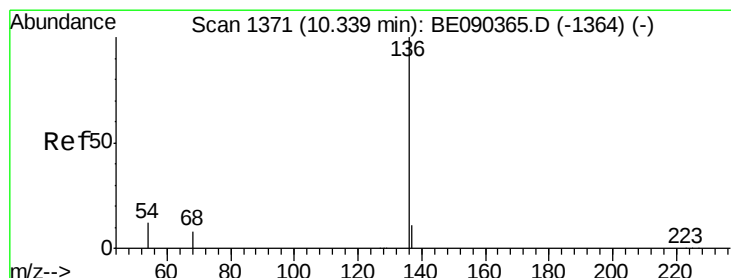
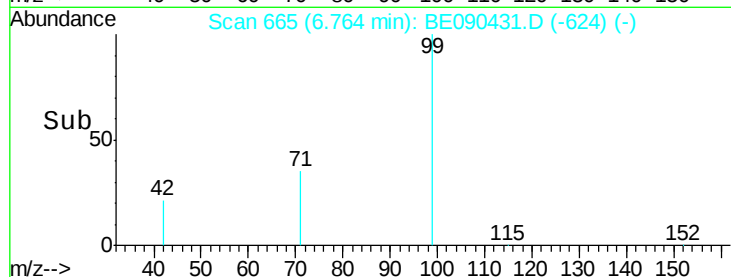
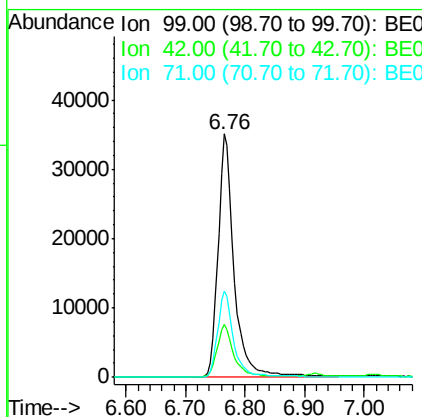
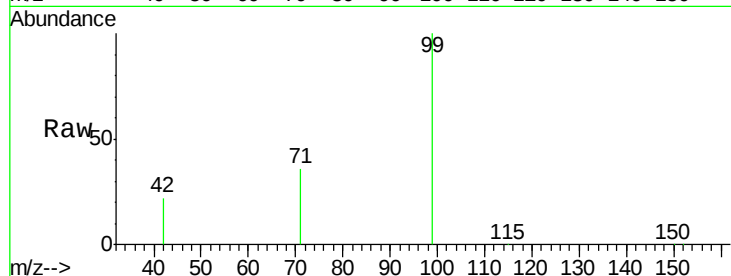
ClientSampleId :

PB84961BS

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Tgt Ion:	99	Resp:	65773
Ion	Ratio	Lower	Upper
99	100		
42	21.9	18.2	27.4
71	35.2	27.4	41.0



#6

Naphthalene-d8

Concen: 5.00 ng

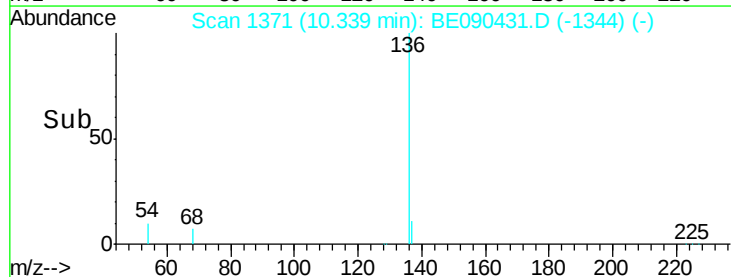
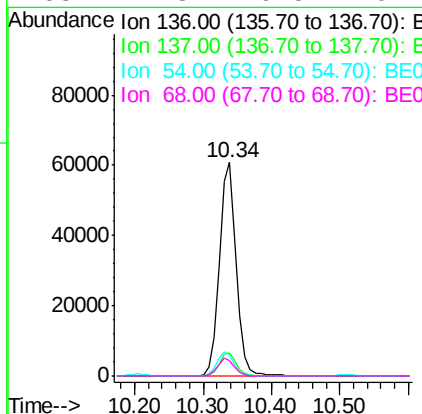
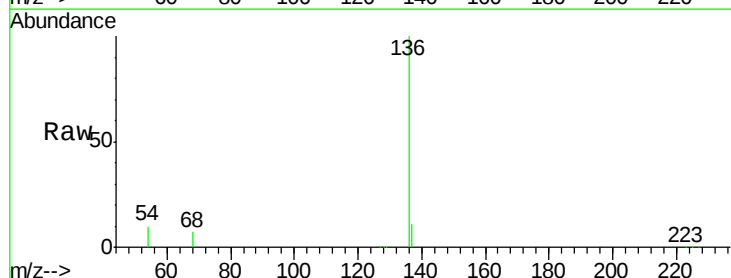
RT: 10.34 min Scan# 1371

Delta R.T. 0.00 min

Lab File: BE090431.D

Acq: 11 Aug 2015 16:57

Tgt Ion:	136	Resp:	102876
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.7	13.1
54	9.8	9.4	14.0
68	7.3	6.5	9.7





#7

Nitrobenzene-d5

Concen: 3.94 ng

RT: 8.72 min Scan# 1091

Delta R.T. -0.01 min

Lab File: BE090431.D

Acq: 11 Aug 2015 16:57

Instrument :

BNA_E

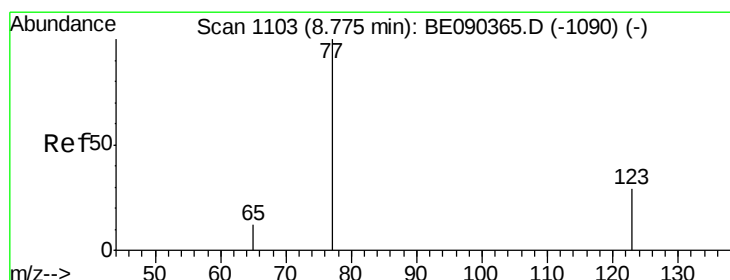
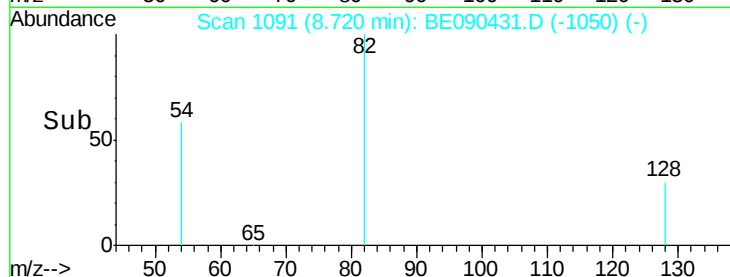
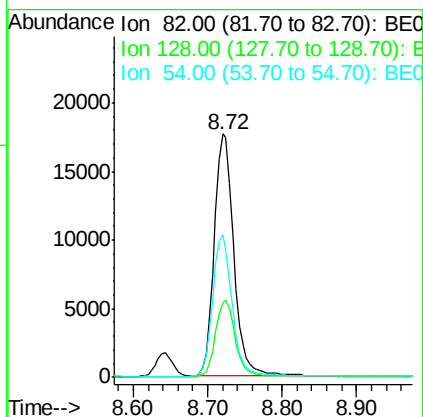
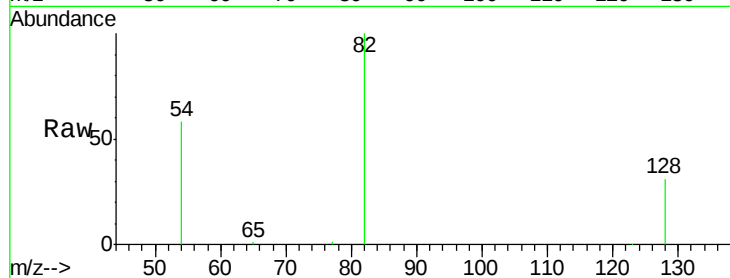
ClientSampleId :

PB84961BS

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Tgt Ion:	82	Resp:	32598
Ion	Ratio	Lower	Upper
82	100		
128	30.5	25.0	37.6
54	58.5	48.8	73.2



#8

Nitrobenzene

Concen: 4.04 ng

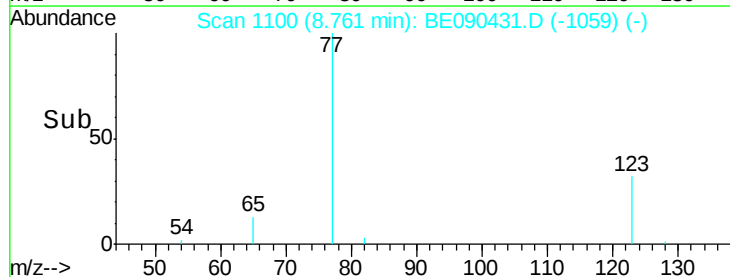
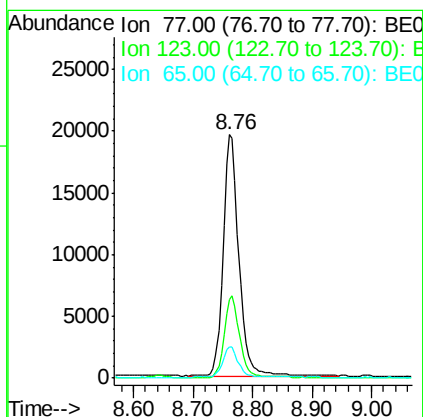
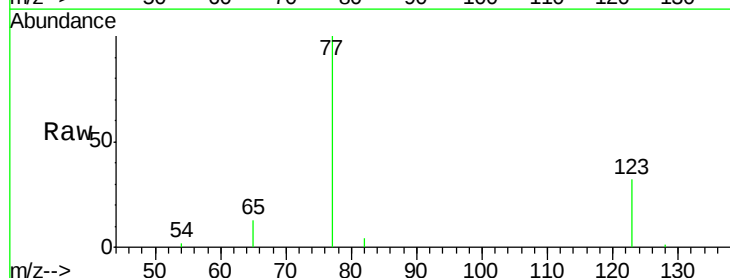
RT: 8.76 min Scan# 1100

Delta R.T. -0.01 min

Lab File: BE090431.D

Acq: 11 Aug 2015 16:57

Tgt Ion:	77	Resp:	35804
Ion	Ratio	Lower	Upper
77	100		
123	33.2	25.1	37.7
65	12.7	9.3	13.9





#9

Naphthalene

Concen: 4.08 ng

RT: 10.38 min Scan# 1377

Delta R.T. -0.01 min

Lab File: BE090431.D

Acq: 11 Aug 2015 16:57

Instrument :

BNA_E

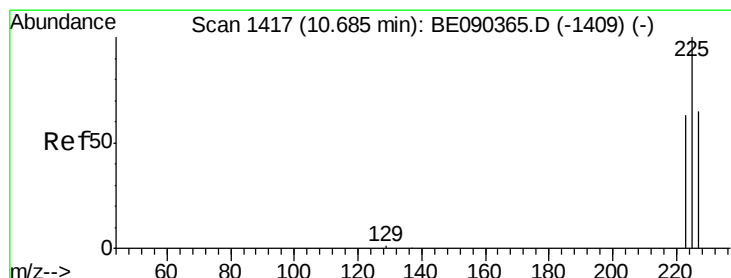
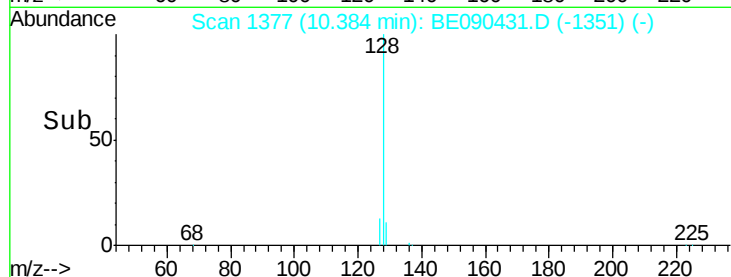
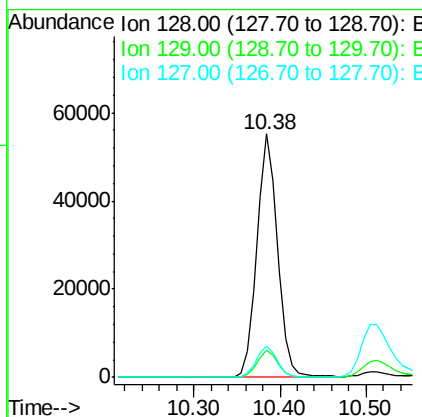
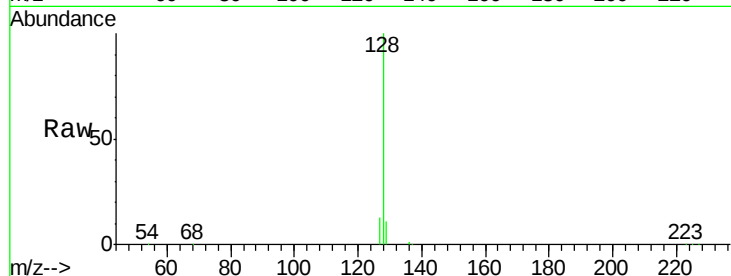
ClientSampleId :

PB84961BS

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Tgt Ion:	128	Resp:	92773
Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.8	14.6
127	12.9	10.6	16.0



#10

Hexachlorobutadiene

Concen: 4.52 ng

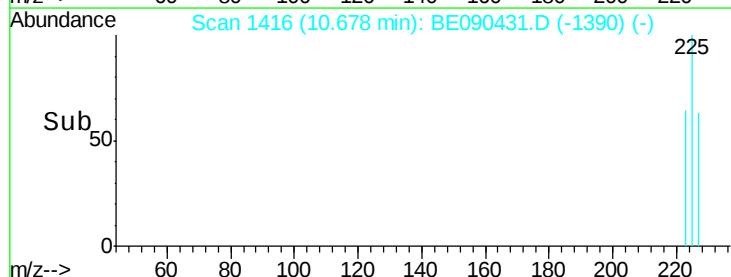
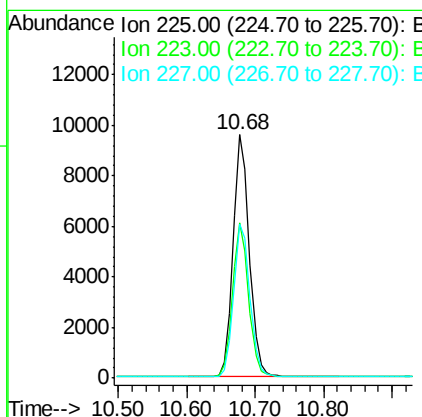
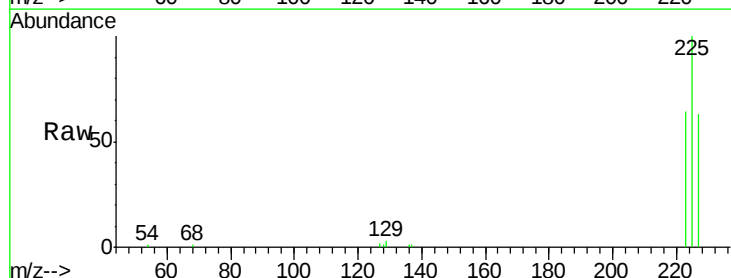
RT: 10.68 min Scan# 1416

Delta R.T. -0.01 min

Lab File: BE090431.D

Acq: 11 Aug 2015 16:57

Tgt Ion:	225	Resp:	15554
Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.6	75.8
227	63.5	50.7	76.1





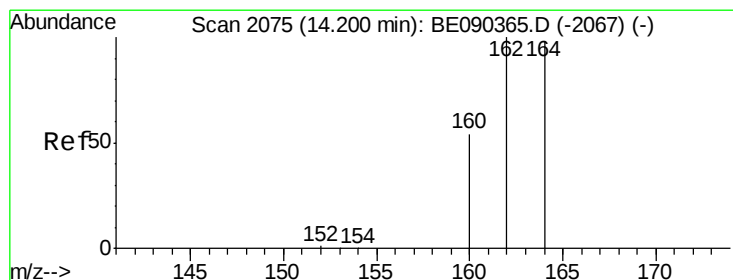
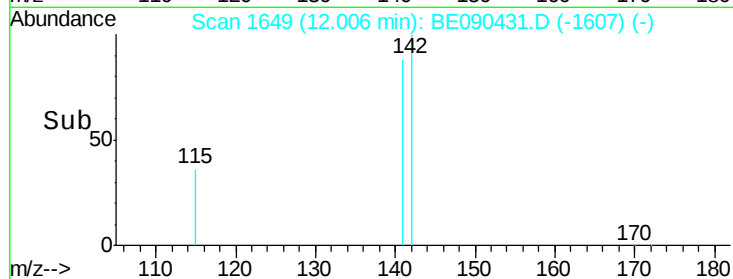
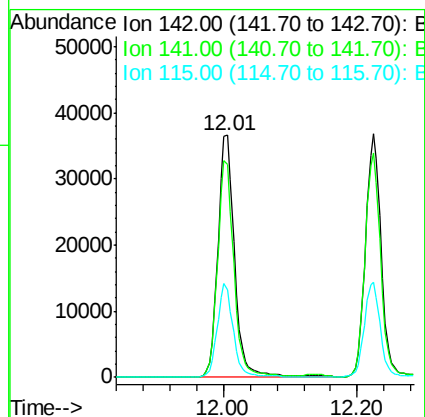
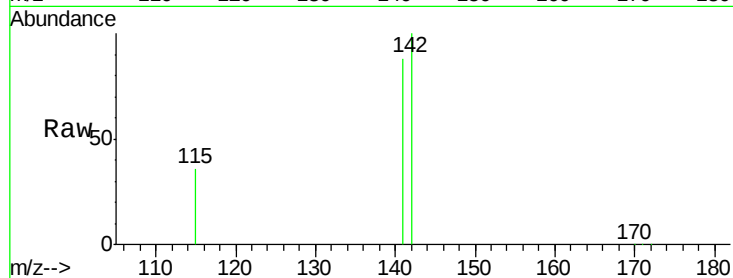
#11
2-Methylnaphthalene
Concen: 4.76 ng
RT: 12.01 min Scan# 1649
Delta R.T. -0.01 min
Lab File: BE090431.D
Acq: 11 Aug 2015 16:57

Instrument :
BNA_E
ClientSampleId :
PB84961BS

Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.8	72.6	109.0
115	36.2	31.6	47.4

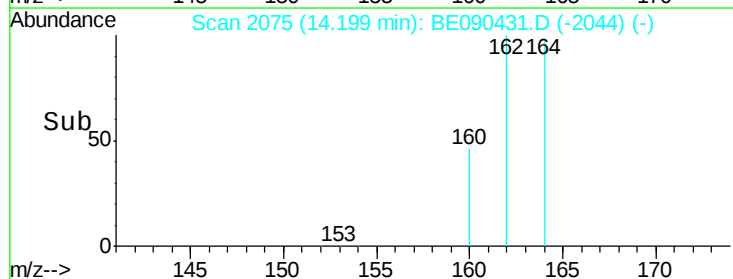
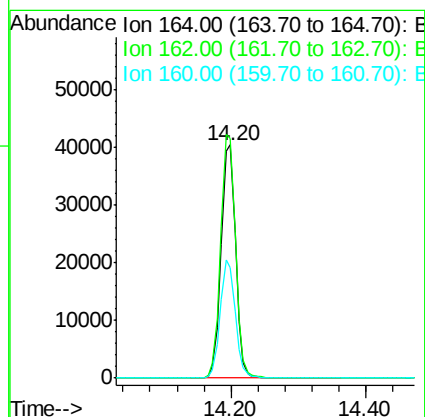
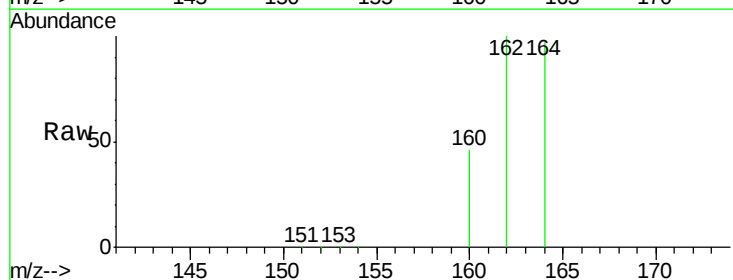
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.20 min Scan# 2075
Delta R.T. -0.00 min
Lab File: BE090431.D
Acq: 11 Aug 2015 16:57

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.9	81.8	122.8
160	47.4	44.2	66.4





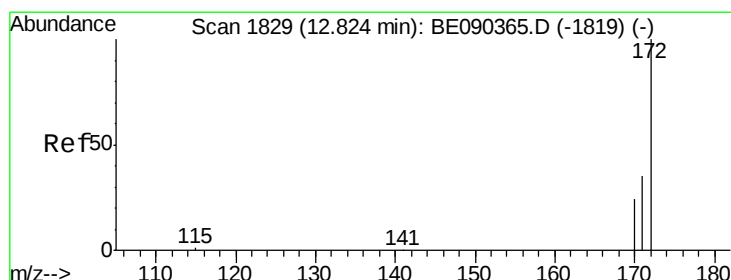
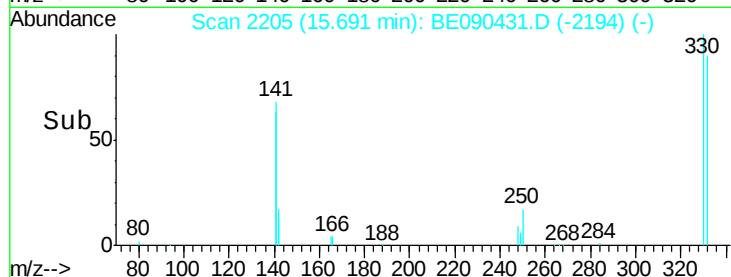
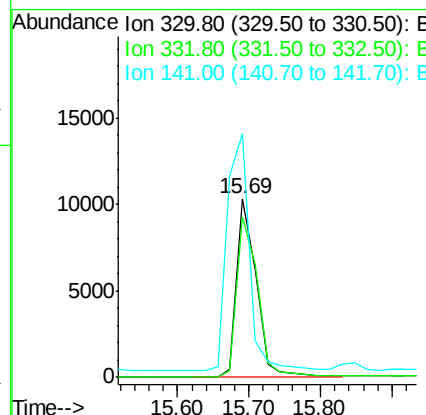
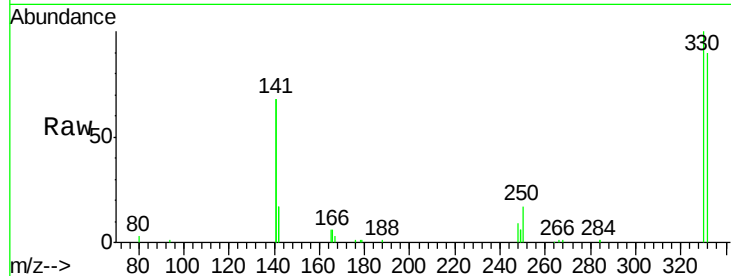
#13
 2,4,6-Tribromophenol
 Concen: 9.60 ng
 RT: 15.69 min Scan# 2205
 Delta R.T. -0.02 min
 Lab File: BE090431.D
 Acq: 11 Aug 2015 16:57

Instrument :
 BNA_E
 ClientSampleId :
 PB84961BS

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.4	75.8	113.6
141	155.3	114.4	171.6

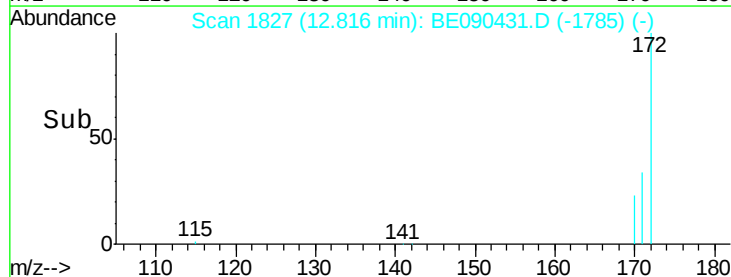
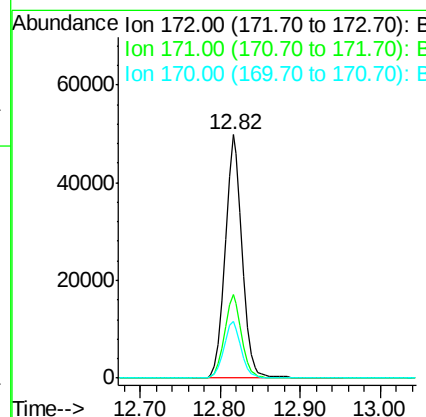
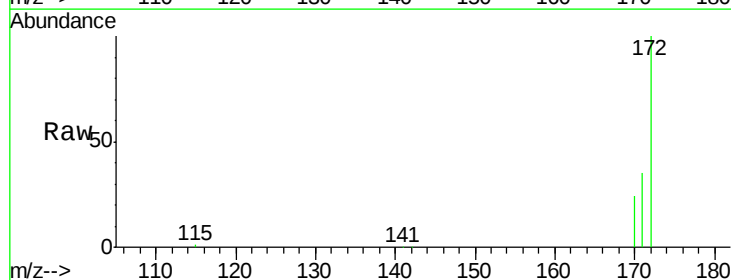
Manual Integrations
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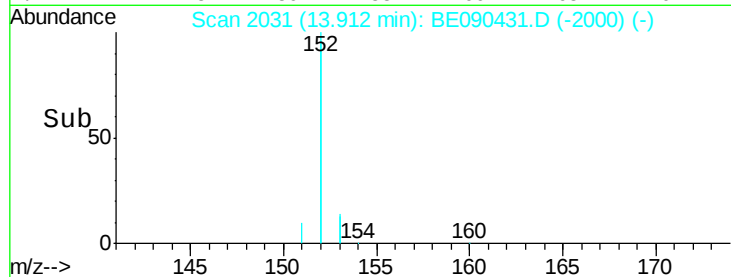
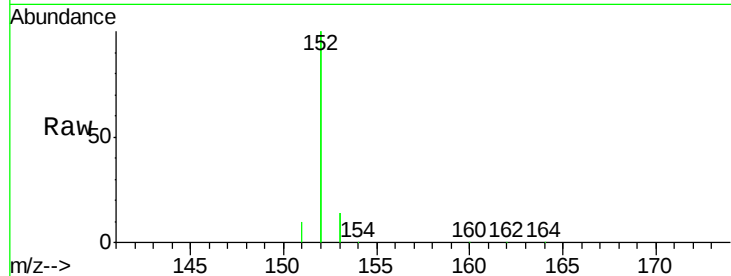
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#14
 2-Fluorobiphenyl
 Concen: 4.43 ng
 RT: 12.82 min Scan# 1827
 Delta R.T. -0.01 min
 Lab File: BE090431.D
 Acq: 11 Aug 2015 16:57

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.5	28.5	42.7
170	23.5	19.8	29.8





#15

Acenaphthylene

Concen: 4.56 ng

RT: 13.91 min Scan# 2031

Delta R.T. -0.00 min

Lab File: BE090431.D

Acq: 11 Aug 2015 16:57

Instrument :

BNA_E

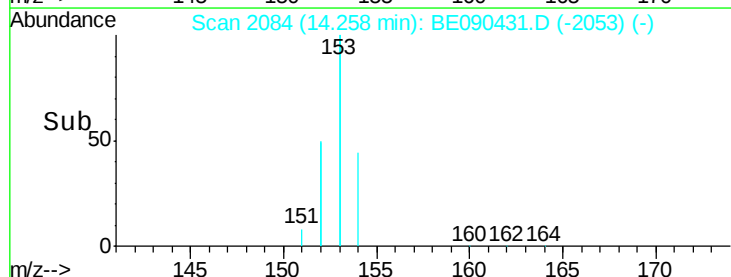
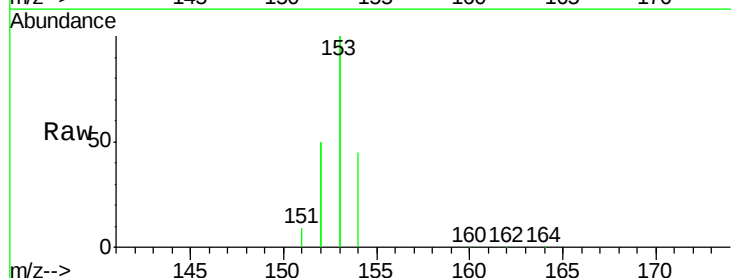
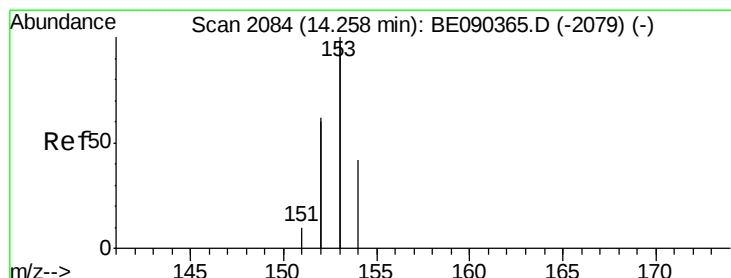
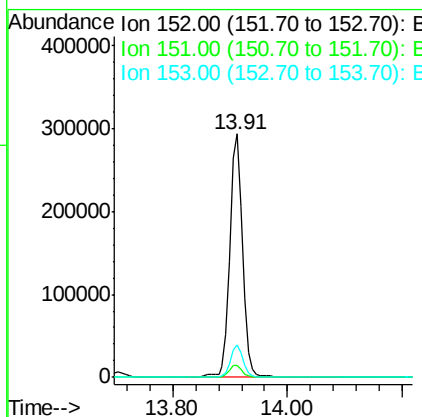
ClientSampleId :

PB84961BS

Tgt Ion:	152	Resp:	442531
Ion Ratio	Lower	Upper	
152	100		
151	4.9	3.8	5.8
153	13.0	10.3	15.5

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#16

Acenaphthene

Concen: 4.31 ng

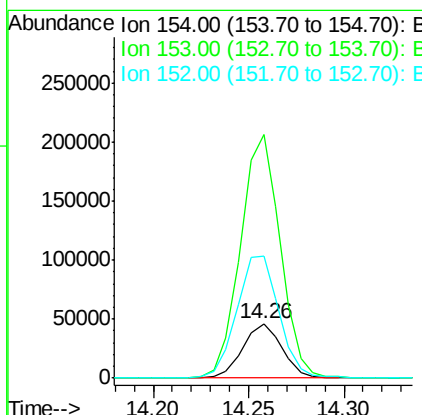
RT: 14.26 min Scan# 2084

Delta R.T. -0.00 min

Lab File: BE090431.D

Acq: 11 Aug 2015 16:57

Tgt Ion:	154	Resp:	65003
Ion Ratio	Lower	Upper	
154	100		
153	458.7	376.2	564.2
152	243.3	235.0	352.4





#17

Fluorene

Concen: 4.48 ng

RT: 15.26 min Scan# 2180

Delta R.T. 0.00 min

Lab File: BE090431.D

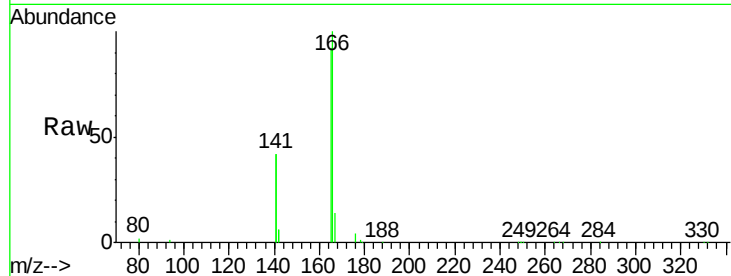
Acq: 11 Aug 2015 16:57

Instrument :

BNA_E

ClientSampleId :

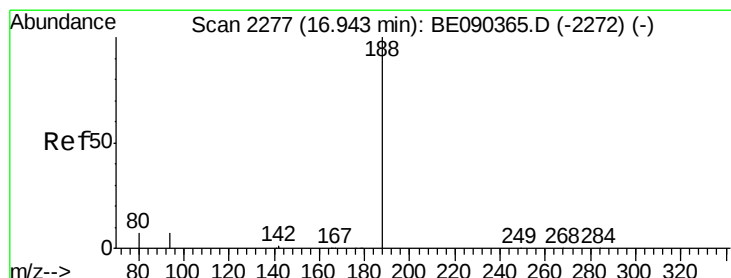
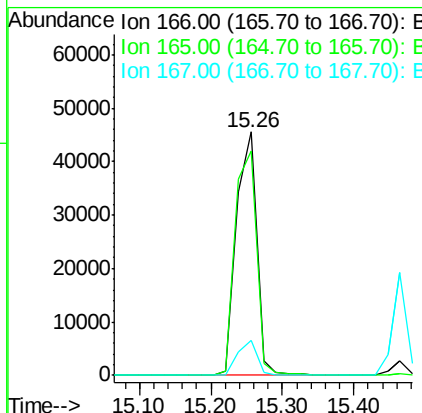
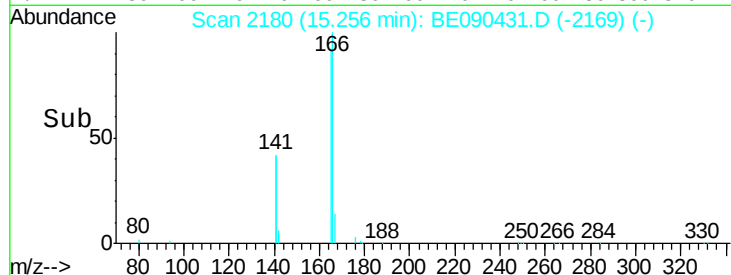
PB84961BS



Tgt Ion:	166	Resp:	87751
Ion Ratio	Lower	Upper	
166	100		
165	98.6	81.5	122.3
167	13.6	11.4	17.0

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#18

Phenanthrene-d10

Concen: 5.00 ng

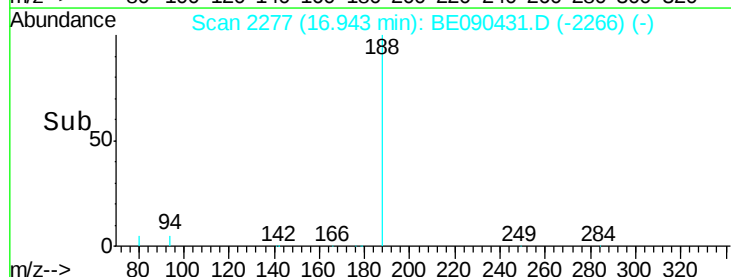
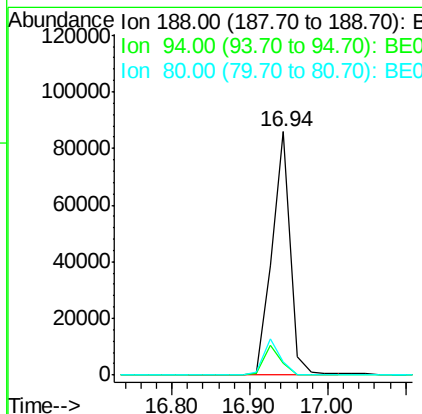
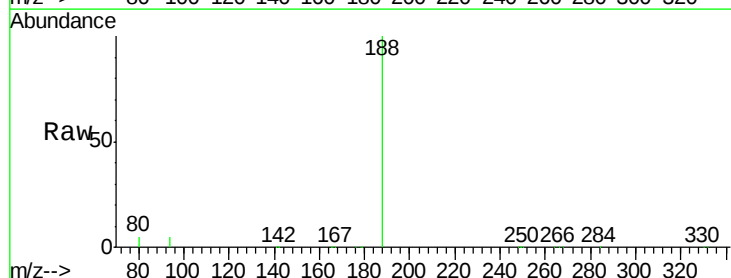
RT: 16.94 min Scan# 2277

Delta R.T. 0.00 min

Lab File: BE090431.D

Acq: 11 Aug 2015 16:57

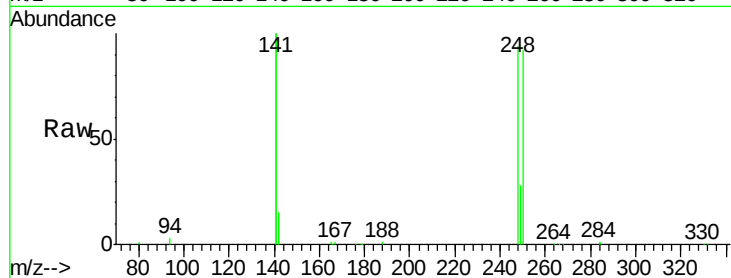
Tgt Ion:	188	Resp:	139144
Ion Ratio	Lower	Upper	
188	100		
94	5.1	5.7	8.5#
80	5.2	5.8	8.8#





#19
4-Bromophenyl-phenylether
Concen: 4.56 ng
RT: 16.14 min Scan# 2231
Delta R.T. 0.00 min
Lab File: BE090431.D
Acq: 11 Aug 2015 16:57

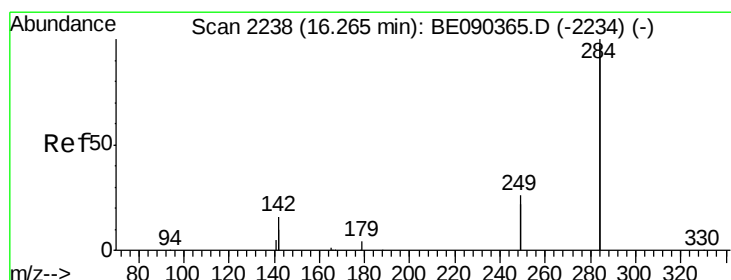
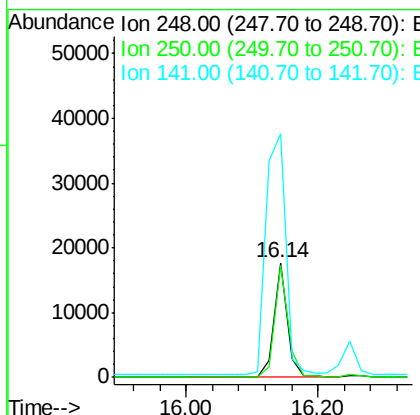
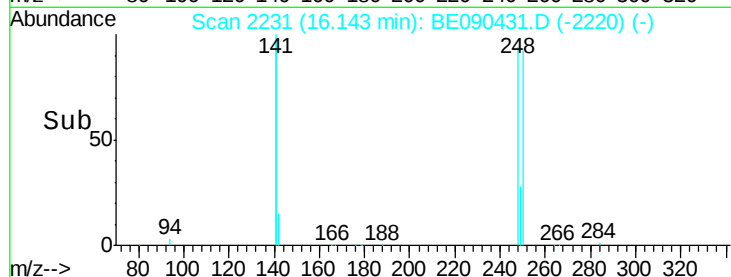
Instrument :
BNA_E
ClientSampleId :
PB84961BS



Tgt Ion:248 Resp: 24658
Ion Ratio Lower Upper
248 100
250 98.5 79.0 118.6
141 314.5 239.5 359.3

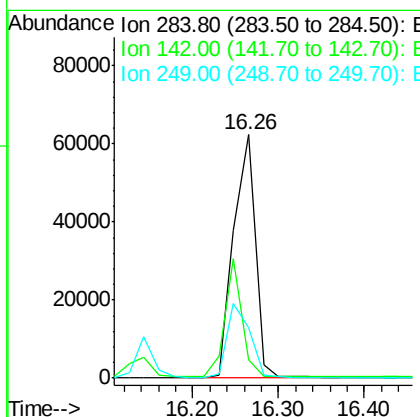
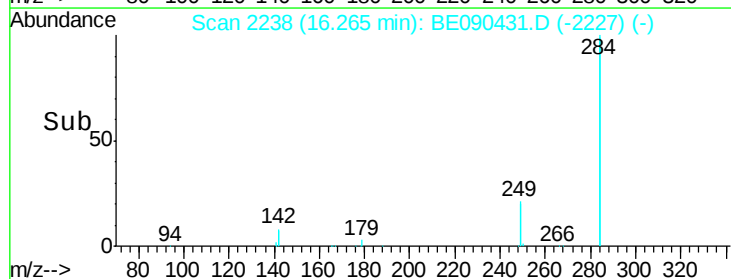
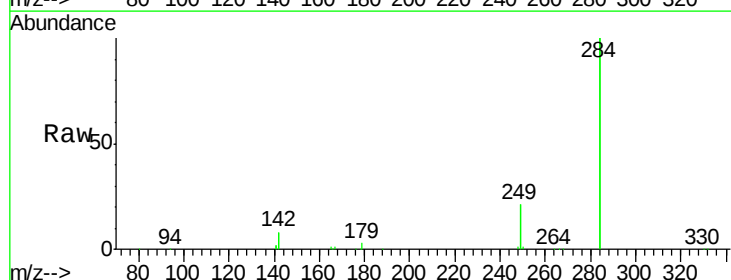
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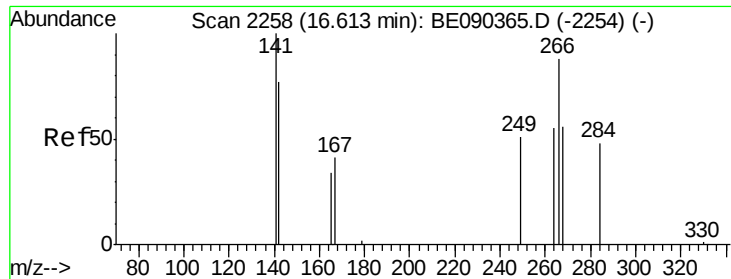
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#20
Hexachlorobenzene
Concen: 3.90 ng
RT: 16.26 min Scan# 2238
Delta R.T. 0.00 min
Lab File: BE090431.D
Acq: 11 Aug 2015 16:57

Tgt Ion:284 Resp: 109035
Ion Ratio Lower Upper
284 100
142 38.7 30.1 45.1
249 31.7 25.7 38.5





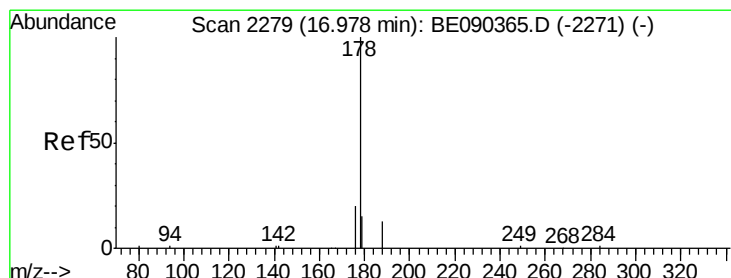
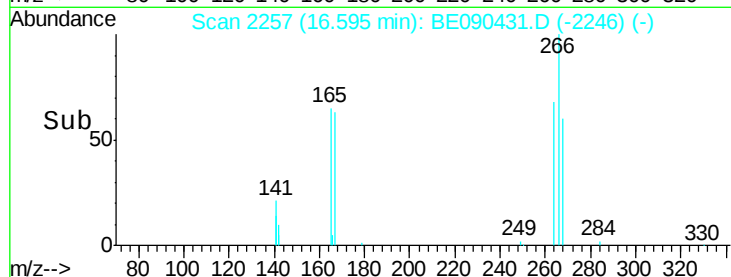
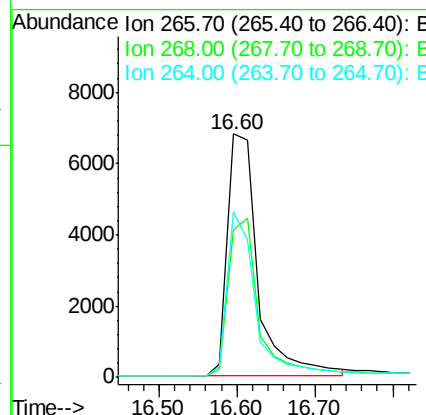
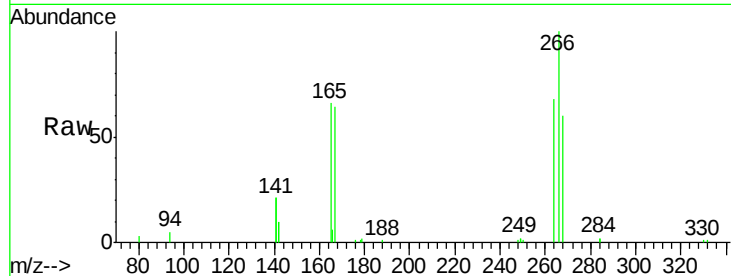
#21
 Pentachlorophenol
 Concen: 8.16 ng
 RT: 16.60 min Scan# 2257
 Delta R.T. -0.02 min
 Lab File: BE090431.D
 Acq: 11 Aug 2015 16:57

Instrument :
 BNA_E
 ClientSampleId :
 PB84961BS

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	18387		
268	60.4	58.5	87.7	
264	67.9	56.0	84.0	

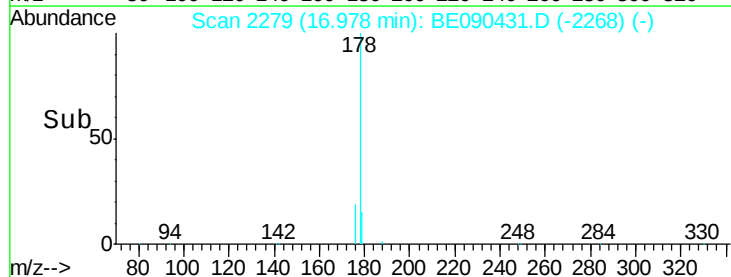
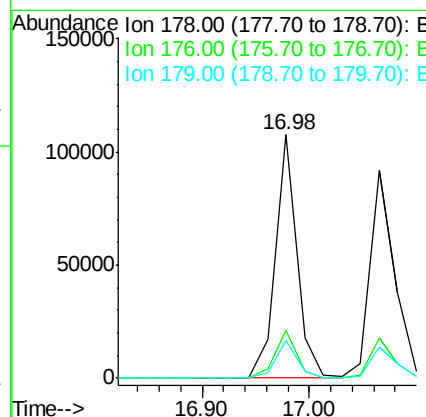
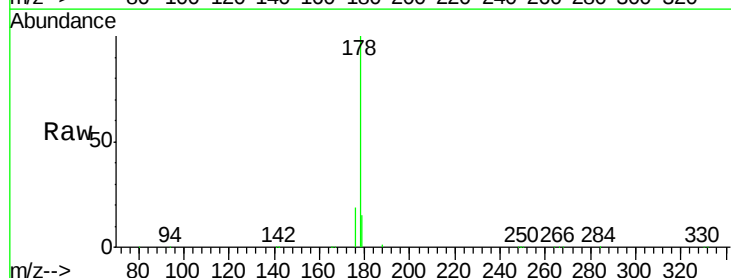
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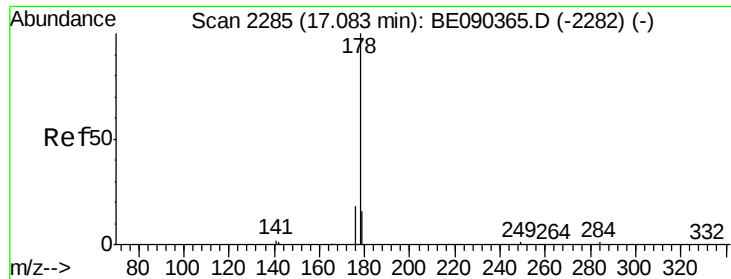
MMDadoda
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#22
 Phenanthrene
 Concen: 4.34 ng
 RT: 16.98 min Scan# 2279
 Delta R.T. 0.00 min
 Lab File: BE090431.D
 Acq: 11 Aug 2015 16:57

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	150994		
176	19.5	15.4	23.2	
179	15.5	12.5	18.7	





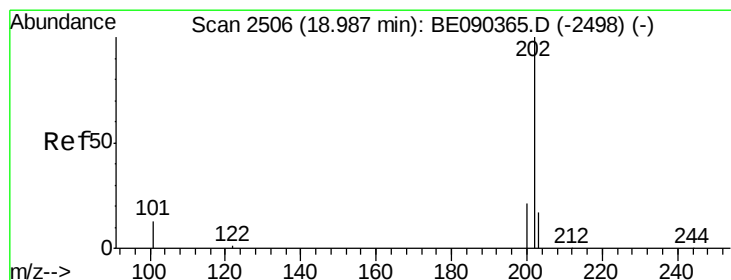
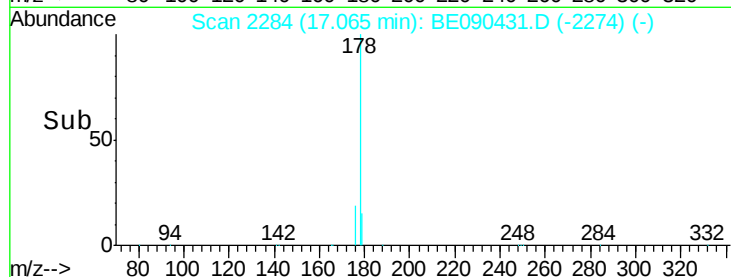
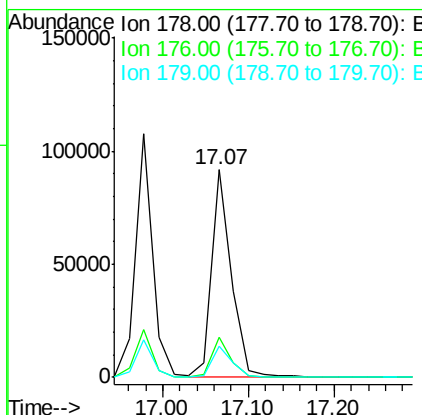
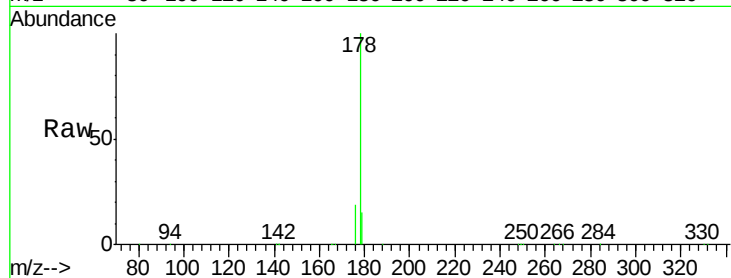
#23
 Anthracene
 Concen: 5.14 ng
 RT: 17.07 min Scan# 2284
 Delta R.T. -0.02 min
 Lab File: BE090431.D
 Acq: 11 Aug 2015 16:57

Instrument :
 BNA_E
 ClientSampled :
 PB84961BS

Manual Integrations
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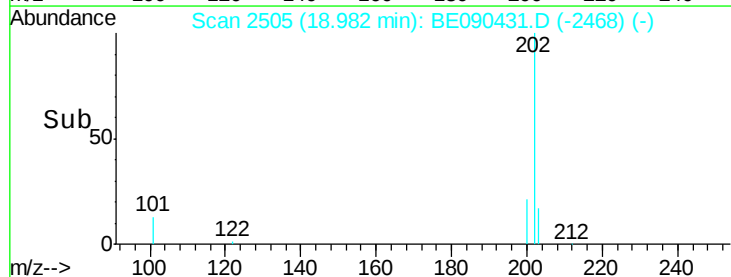
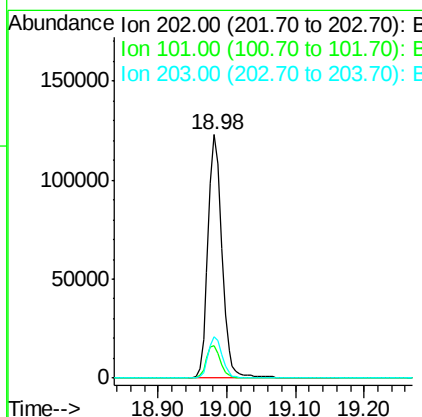
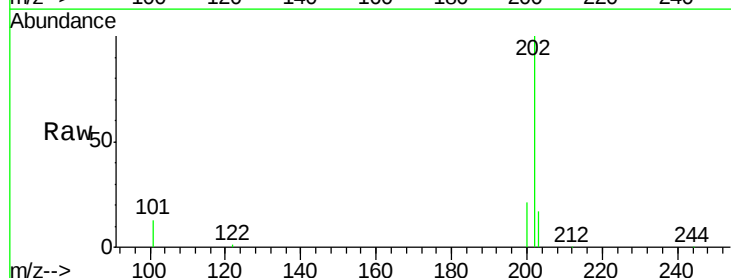
MMDadoda
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Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.9	22.3
179	15.5	12.2	18.4



#24
 Fluoranthene
 Concen: 5.02 ng
 RT: 18.98 min Scan# 2505
 Delta R.T. -0.01 min
 Lab File: BE090431.D
 Acq: 11 Aug 2015 16:57

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.5	10.3	15.5
203	17.2	13.7	20.5





#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.09 min Scan# 2864

Delta R.T. -0.01 min

Lab File: BE090431.D

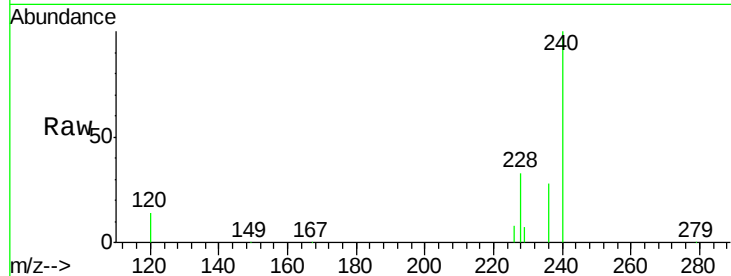
Acq: 11 Aug 2015 16:57

Instrument :

BNA_E

ClientSampleId :

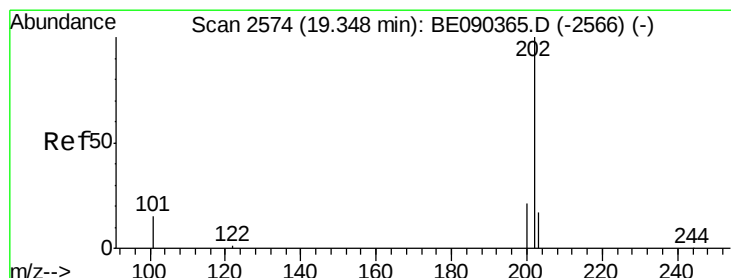
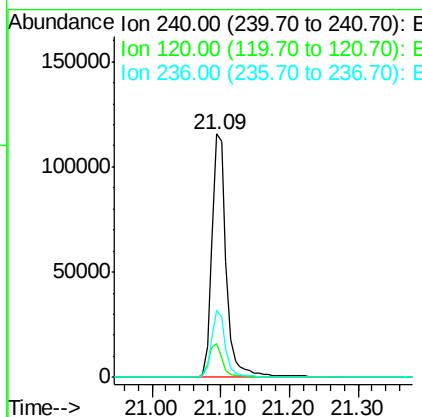
PB84961BS



Tgt Ion:	240	Resp:	167383
Ion Ratio	Lower	Upper	
240	100		
120	14.0	8.3	12.5#
236	27.7	21.0	31.4

Manual Integrations
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#26

Pyrene

Concen: 5.14 ng

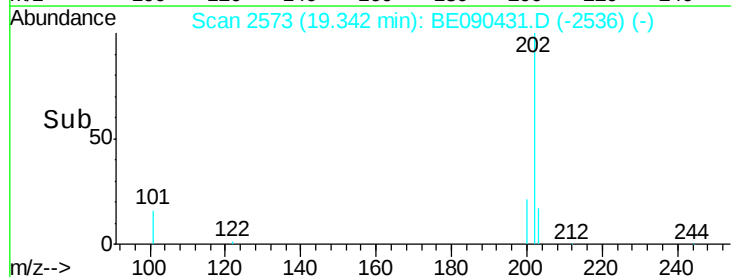
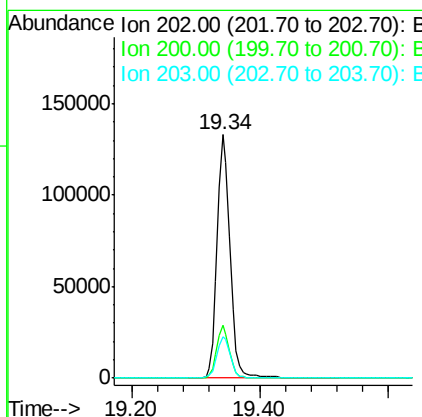
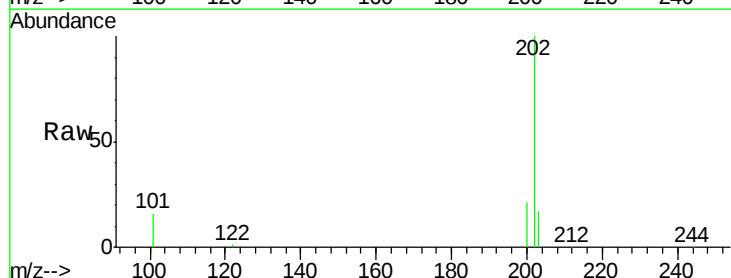
RT: 19.34 min Scan# 2573

Delta R.T. -0.01 min

Lab File: BE090431.D

Acq: 11 Aug 2015 16:57

Tgt Ion:	202	Resp:	186394
Ion Ratio	Lower	Upper	
202	100		
200	21.2	16.7	25.1
203	17.9	13.8	20.8





#27

Terphenyl-d14

Concen: 4.80 ng

RT: 19.55 min Scan# 2613

Delta R.T. -0.01 min

Lab File: BE090431.D

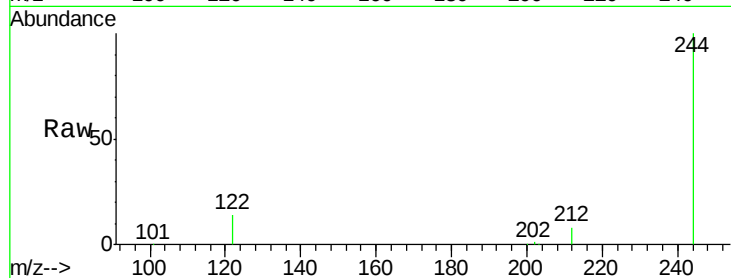
Acq: 11 Aug 2015 16:57

Instrument :

BNA_E

ClientSampleId :

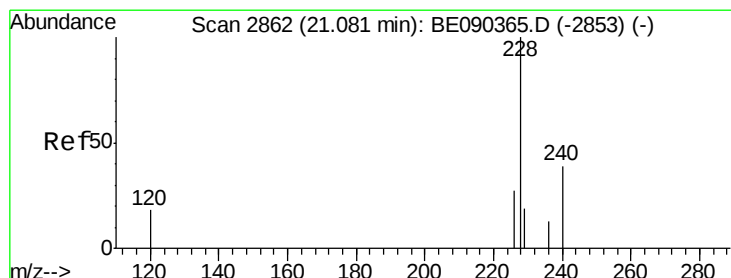
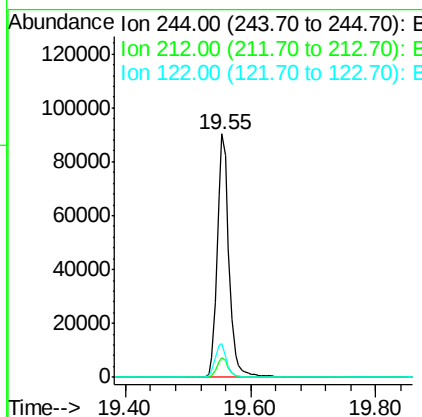
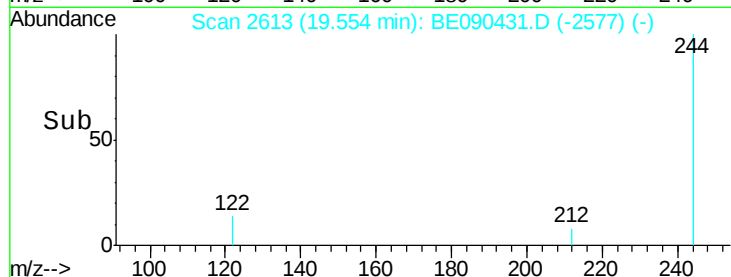
PB84961BS



Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.1	6.6	9.8
122	13.8	10.2	15.4

Manual Integrations
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#28

Benzo(a)anthracene

Concen: 4.78 ng

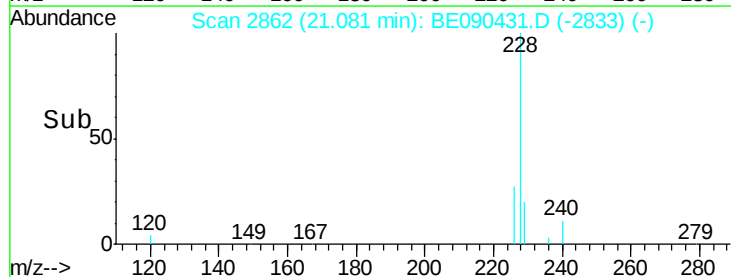
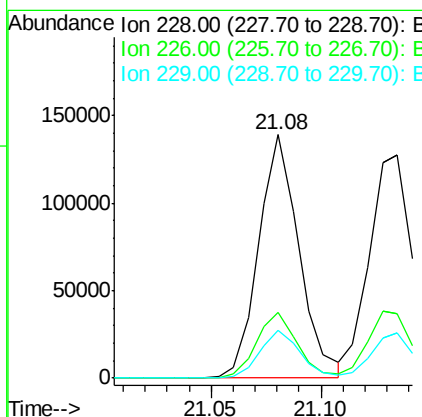
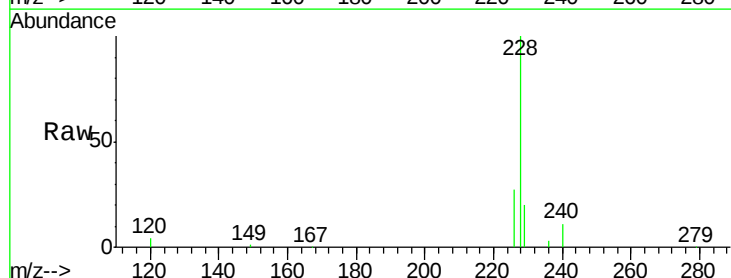
RT: 21.08 min Scan# 2862

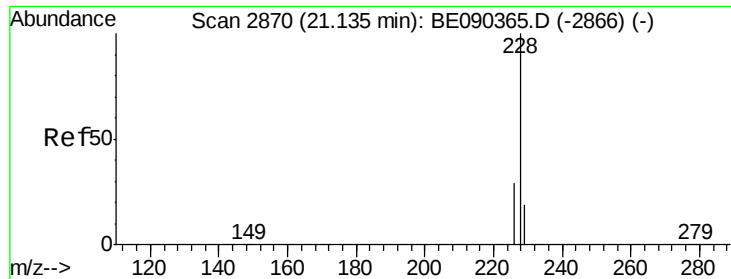
Delta R.T. -0.00 min

Lab File: BE090431.D

Acq: 11 Aug 2015 16:57

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.9	32.9
229	19.7	15.4	23.0





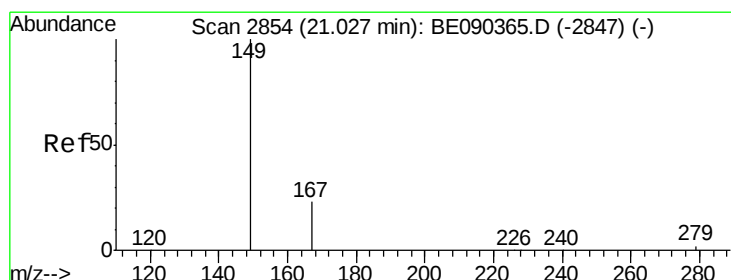
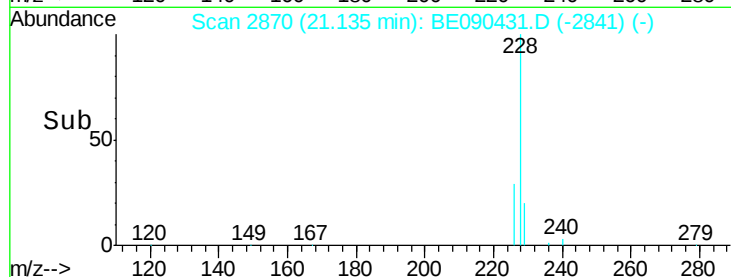
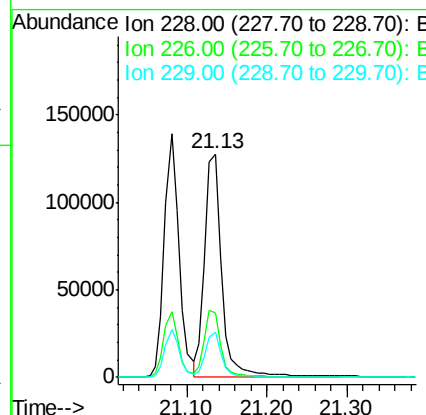
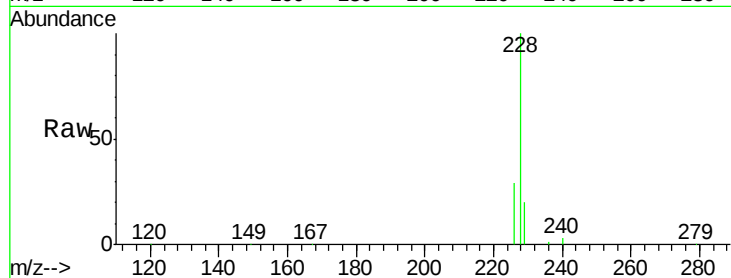
#29
Chrysene
Concen: 4.27 ng m
RT: 21.13 min Scan# 2870
Delta R.T. -0.00 min
Lab File: BE090431.D
Acq: 11 Aug 2015 16:57

Instrument :
BNA_E
ClientSampleId :
PB84961BS

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	191629		
226	28.9	23.1	34.7	
229	20.1	15.8	23.8	

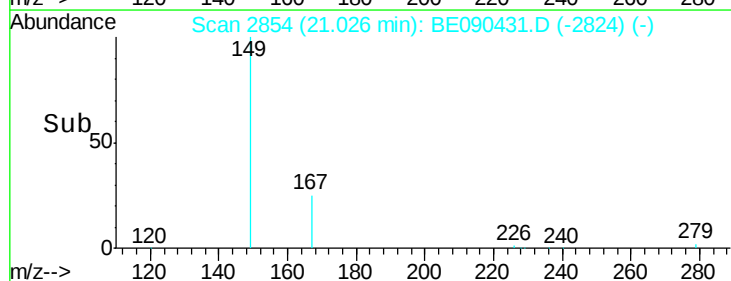
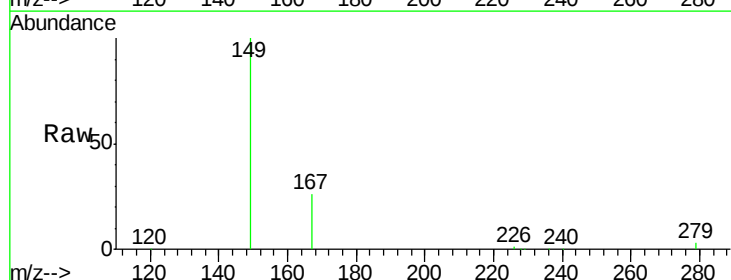
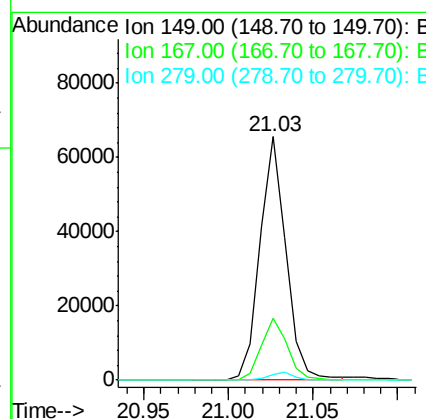
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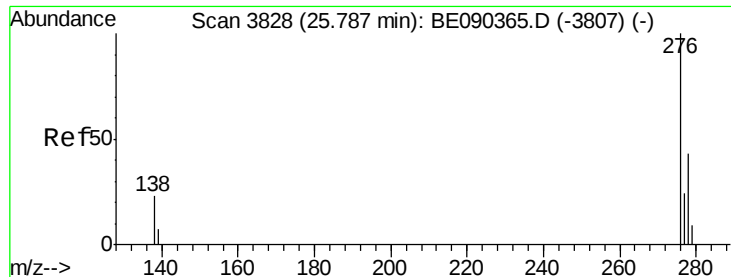
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#30
Bis(2-ethylhexyl)phthalate
Concen: 5.12 ng
RT: 21.03 min Scan# 2854
Delta R.T. 0.00 min
Lab File: BE090431.D
Acq: 11 Aug 2015 16:57

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	69410		
167	25.5	19.8	29.8	
279	3.2	2.4	3.6	





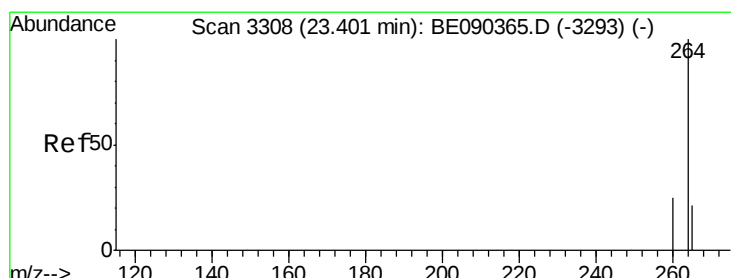
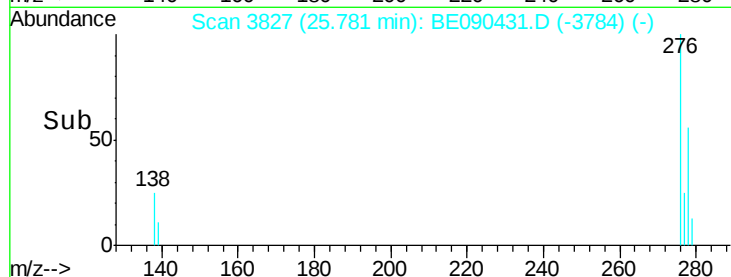
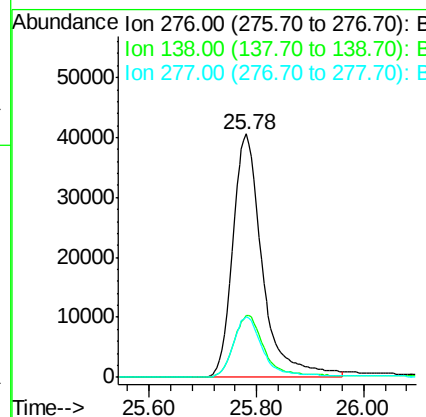
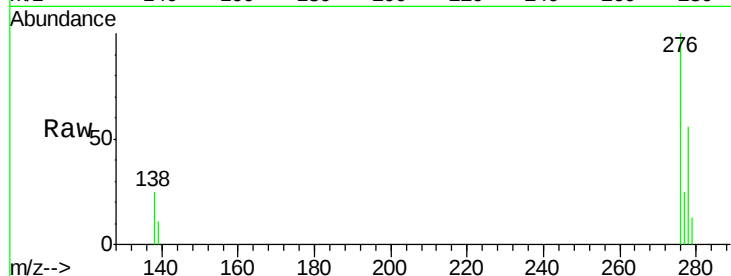
#31
Indeno(1,2,3-cd)pyrene
Concen: 3.90 ng
RT: 25.78 min Scan# 3827
Delta R.T. -0.00 min
Lab File: BE090431.D
Acq: 11 Aug 2015 16:57

Instrument :
BNA_E
ClientSampleId :
PB84961BS

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	26.3	18.8	28.2
277	24.9	18.2	27.4

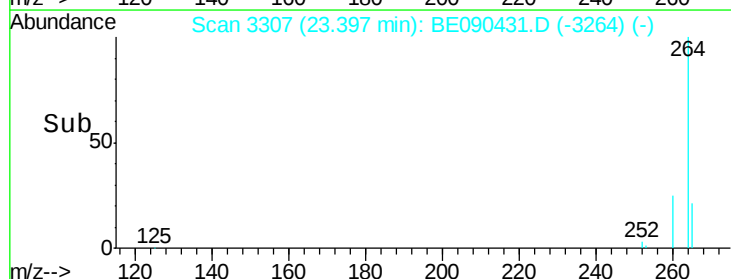
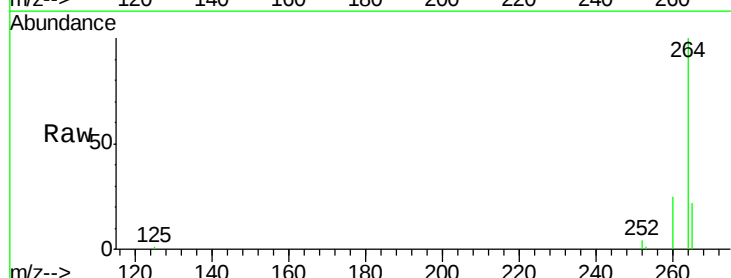
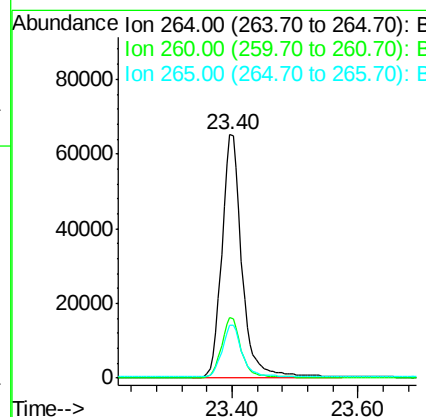
Manual Integrations
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#32
Perylene-d12
Concen: 5.00 ng
RT: 23.40 min Scan# 3307
Delta R.T. -0.00 min
Lab File: BE090431.D
Acq: 11 Aug 2015 16:57

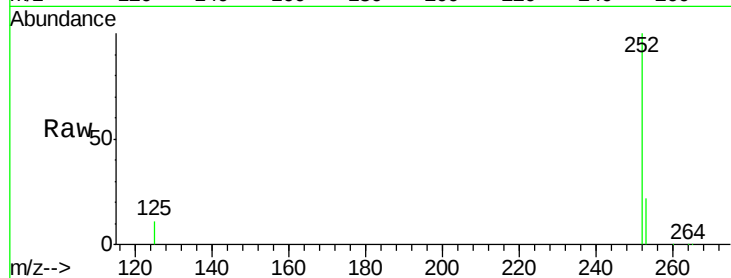
Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	24.9	20.1	30.1
265	21.5	17.2	25.8





#33
Benzo(b)fluoranthene
Concen: 4.51 ng
RT: 22.70 min Scan# 3153
Delta R.T. -0.01 min
Lab File: BE090431.D
Acq: 11 Aug 2015 16:57

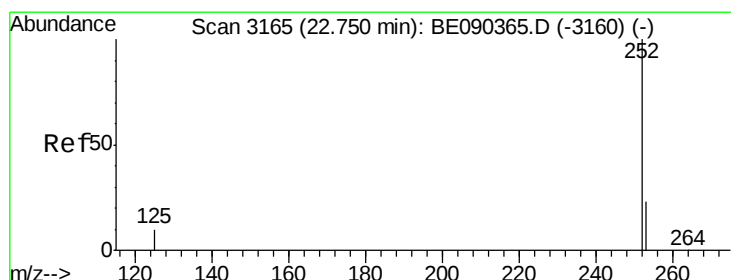
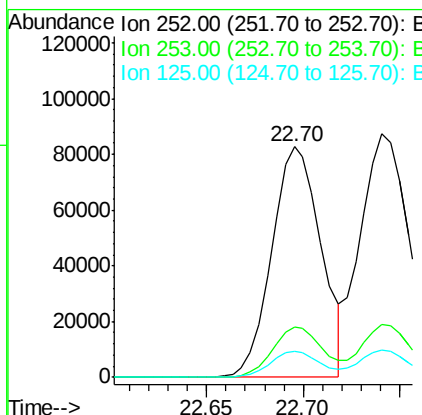
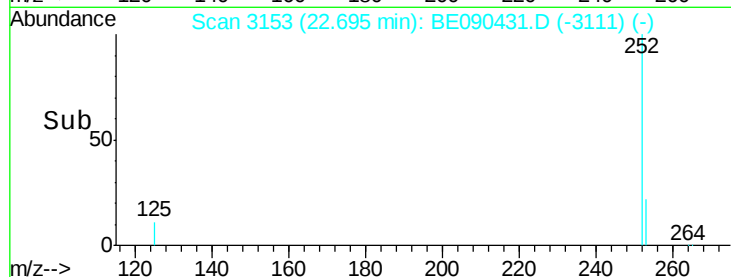
Instrument :
BNA_E
ClientSampleId :
PB84961BS



Tgt Ion	Ratio	Resp	Lower	Upper
252	100	146903		
253	22.1	18.1	27.1	
125	11.2	9.4	14.2	

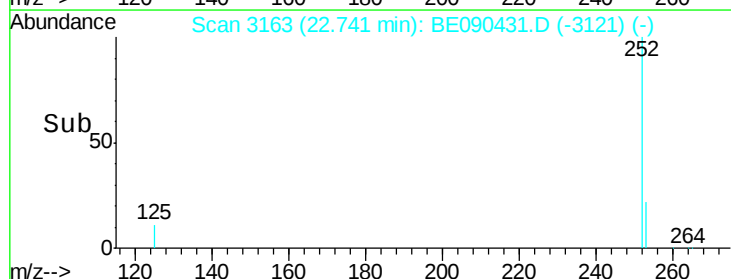
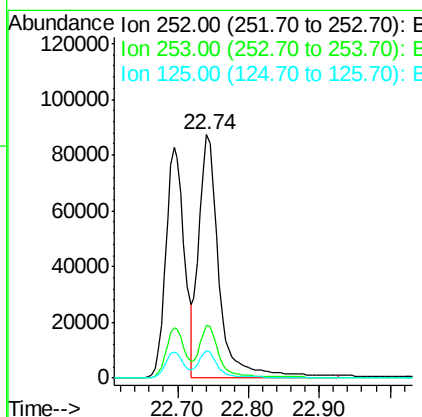
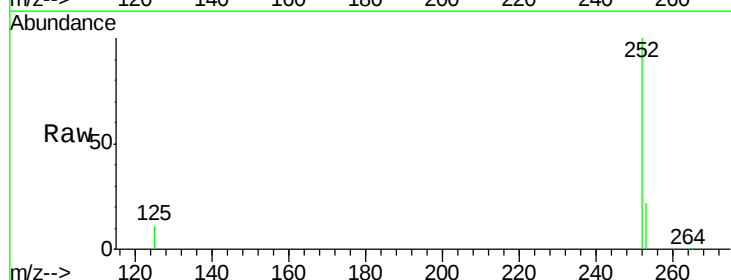
Manual Integrations
APPROVED

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8/12/2015 3:55:32 PM



#34
Benzo(k)fluoranthene
Concen: 4.42 ng m
RT: 22.74 min Scan# 3163
Delta R.T. -0.01 min
Lab File: BE090431.D
Acq: 11 Aug 2015 16:57

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	178372		
253	21.8	18.1	27.1	
125	11.2	9.1	13.7	





#35

Benzo(a)pyrene

Concen: 4.46 ng

RT: 23.29 min Scan# 3284

Delta R.T. -0.00 min

Lab File: BE090431.D

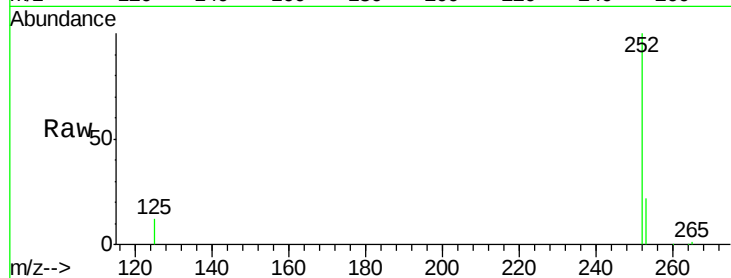
Acq: 11 Aug 2015 16:57

Instrument :

BNA_E

ClientSampleId :

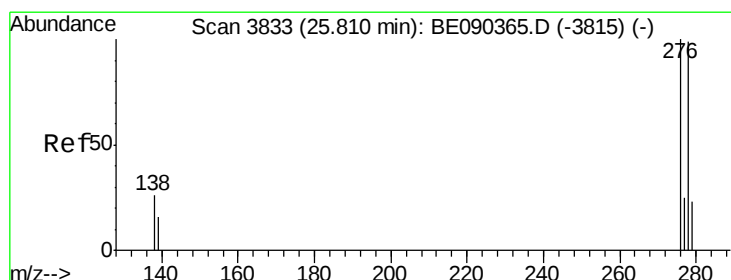
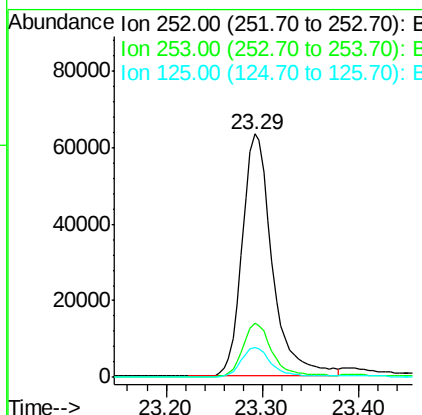
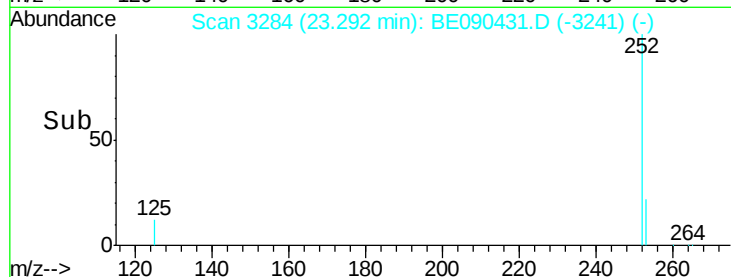
PB84961BS



Tgt Ion:	252	Resp:	137417
Ion Ratio	Lower	Upper	
252	100		
253	22.2	17.6	26.4
125	12.2	9.8	14.6

Manual Integrations
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#36

Dibenzo(a,h)anthracene

Concen: 4.15 ng

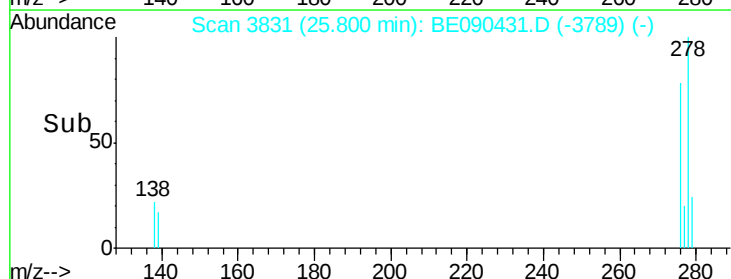
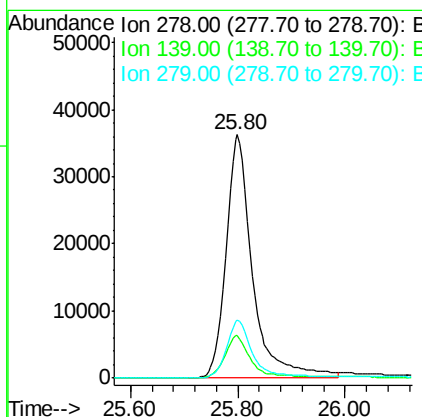
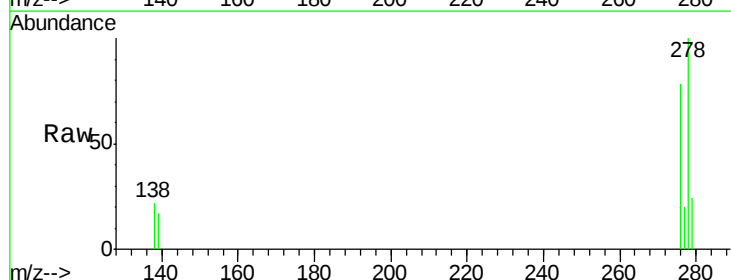
RT: 25.80 min Scan# 3831

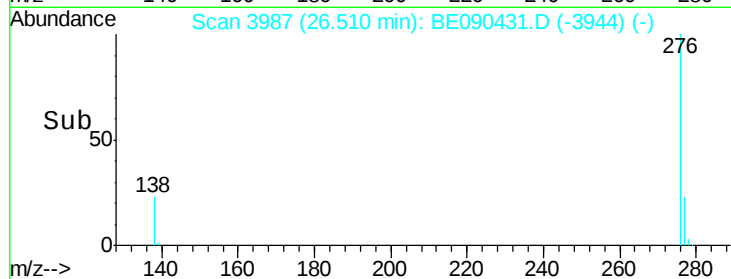
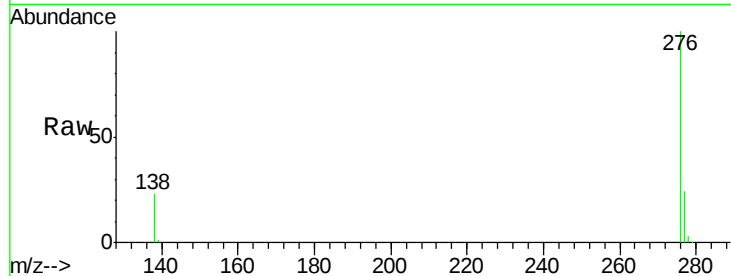
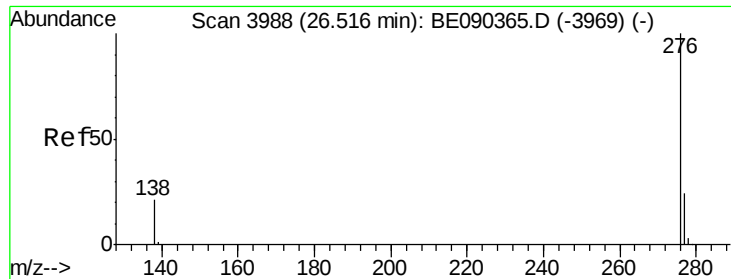
Delta R.T. -0.01 min

Lab File: BE090431.D

Acq: 11 Aug 2015 16:57

Tgt Ion:	278	Resp:	124341
Ion Ratio	Lower	Upper	
278	100		
139	17.3	14.2	21.4
279	23.9	20.1	30.1





#37
 Benzo(g,h,i)perylene
 Concen: 5.17 ng
 RT: 26.51 min Scan# 3987
 Delta R.T. -0.01 min
 Lab File: BE090431.D
 Acq: 11 Aug 2015 16:57

Instrument :
 BNA_E
 ClientSampleId :
 PB84961BS

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
277	23.6	20.1	30.1
138	23.3	18.1	27.1

Manual Integrations
 APPROVED

MMDadoda
 8/12/2015 3:55:32 PM

