

Data Path : Z:\HPCHEM1\BNA E\DATA\BE080715\
 Data File : BE090399.D
 Acq On : 7 Aug 2015 16:05
 Operator : TP/UM
 Sample : PB84826BS
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB84826BS

Manual Integrations
 APPROVED

MMDadoda
 8/10/2015 7:11:13 PM

Quant Time: Aug 07 23:30:08 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	20379	5.00	ng	0.00
6) Naphthalene-d8	10.34	136	94417	5.00	ng	0.00
12) Acenaphthene-d10	14.20	164	54893	5.00	ng	0.00
18) Phenanthrene-d10	16.94	188	126144	5.00	ng	0.00
25) Chrysene-d12	21.10	240	164946	5.00	ng	0.00
32) Perylene-d12	23.40	264	136416	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.21	112	23372	7.64	ng	0.00
5) Phenol-d6	6.77	99	41241	6.27	ng	0.00
7) Nitrobenzene-d5	8.72	82	28671	3.78	ng	0.00
13) 2,4,6-Tribromophenol	15.69	330	8464	5.81	ng	-0.02
14) 2-Fluorobiphenyl	12.82	172	66853	4.43	ng	0.00
27) Terphenyl-d14	19.56	244	111649	4.59	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.20	88	10695	4.44	ng	97
3) n-Nitrosodimethylamine	3.49	42	13017	4.13	ng	# 93
8) Nitrobenzene	8.76	77	30443	3.76	ng	98
9) Naphthalene	10.39	128	82313	3.95	ng	98
10) Hexachlorobutadiene	10.68	225	13966	4.42	ng	100
11) 2-Methylnaphthalene	12.01	142	52651	4.35	ng	97
15) Acenaphthylene	13.91	152	374027	4.21	ng	100
16) Acenaphthene	14.26	154	56763	4.11	ng	93
17) Fluorene	15.26	166	78046	4.35	ng	98
19) 4-Bromophenyl-phenylether	16.14	248	20832	4.25	ng	92
20) Hexachlorobenzene	16.27	284	98541	3.89	ng	98
21) Pentachlorophenol	16.60	266	12673	6.91	ng	90
22) Phenanthrene	16.98	178	134637	4.26	ng	100
23) Anthracene	17.07	178	126785	4.89	ng	100
24) Fluoranthene	18.98	202	149307	4.81	ng	100
26) Pyrene	19.34	202	165403	4.63	ng	99
28) Benzo(a)anthracene	21.08	228	161976	4.43	ng	100
29) Chrysene	21.13	228	178299	4.04	ng	99
30) Bis(2-ethylhexyl)phthalate	21.03	149	40056	3.46	ng	99
31) Indeno(1,2,3-cd)pyrene	25.79	276	134847	3.46	ng	95
33) Benzo(b)fluoranthene	22.70	252	131760	4.30	ng	98
34) Benzo(k)fluoranthene	22.74	252	166298m	4.38	ng	
35) Benzo(a)pyrene	23.30	252	120190	4.16	ng	100
36) Dibenzo(a,h)anthracene	25.80	278	107203	3.82	ng	98
37) Benzo(g,h,i)perylene	26.51	276	117948	4.68	ng	98

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

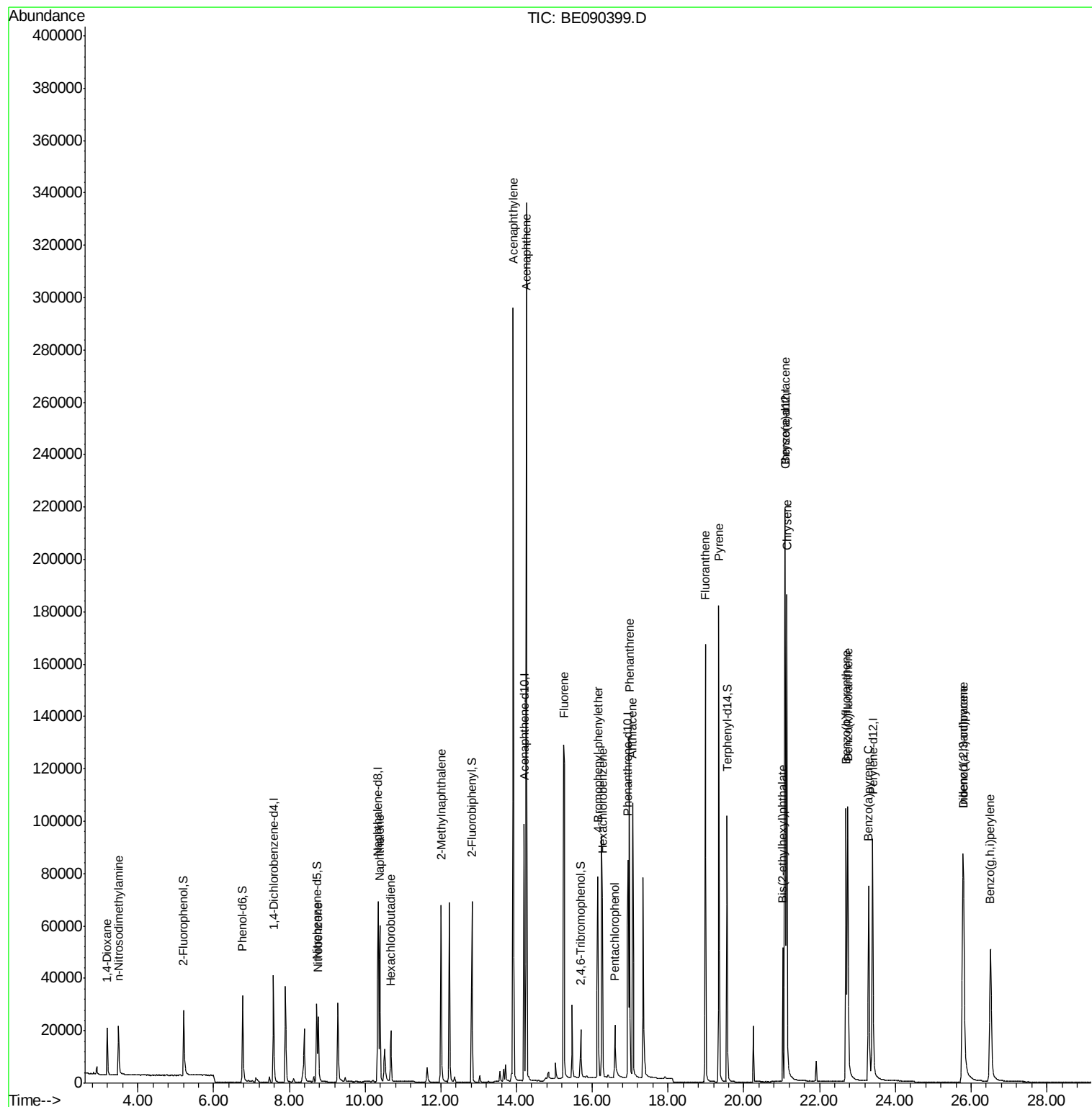
Data Path : Z:\HPCHEM1\BNA E\DATA\BE080715\
Data File : BE090399.D
Acq On : 7 Aug 2015 16:05
Operator : TP/UM
Sample : PB84826BS
Misc :
ALS Vial : 34 Sample Multiplier: 1

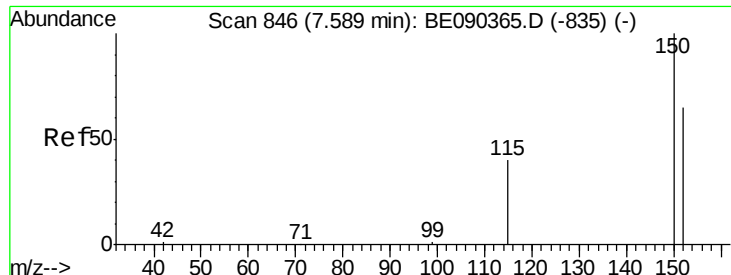
Instrument :
BNA_E
ClientSampleId :
PB84826BS

Manual Integrations
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MMDadoda
8/10/2015 7:11:13 PM

Quant Time: Aug 07 23:30:08 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. -0.01 min

Lab File: BE090399.D

Acq: 7 Aug 2015 16:05

Instrument :

BNA_E

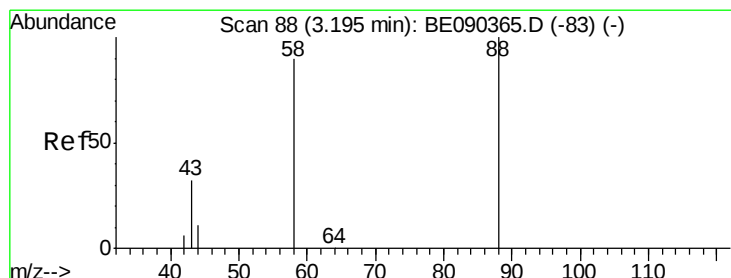
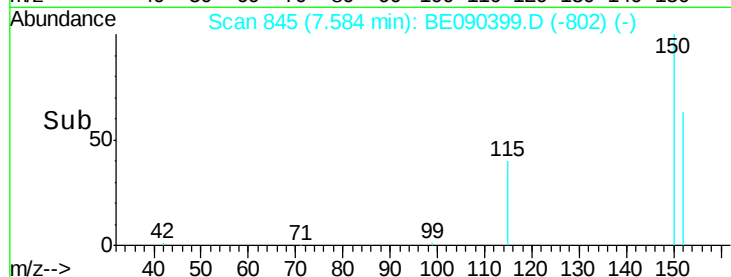
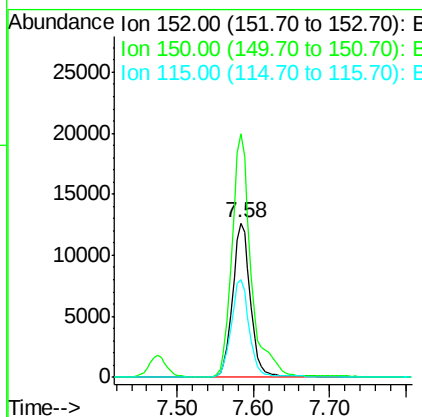
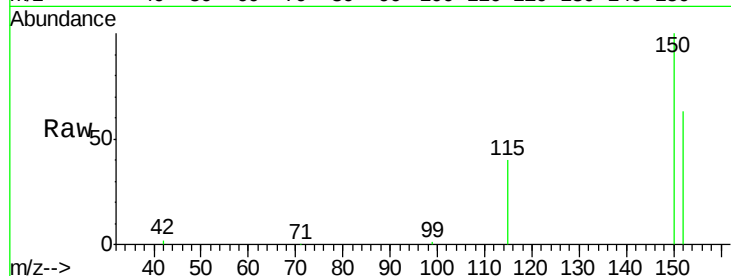
ClientSampleId :

PB84826BS

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8/10/2015 7:11:13 PM

Tot Ion:	152	Resp:	20379
Ion	Ratio	Lower	Upper
152	100		
150	157.5	123.0	184.4
115	63.2	48.9	73.3



#2

1,4-Dioxane

Concen: 4.44 ng

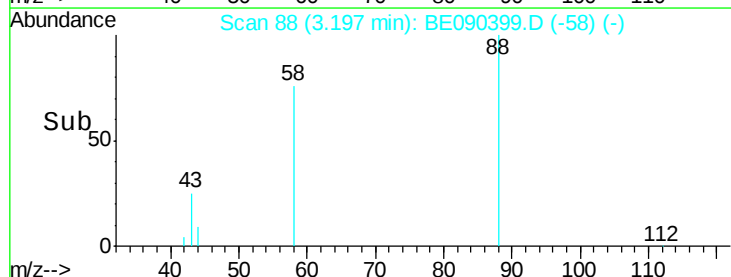
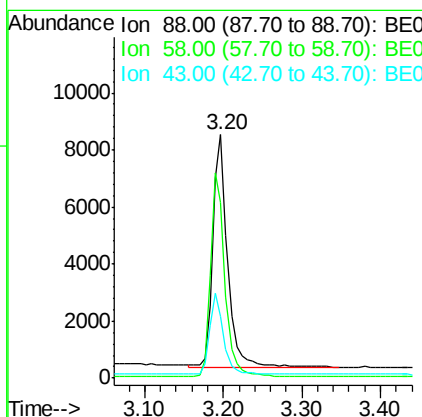
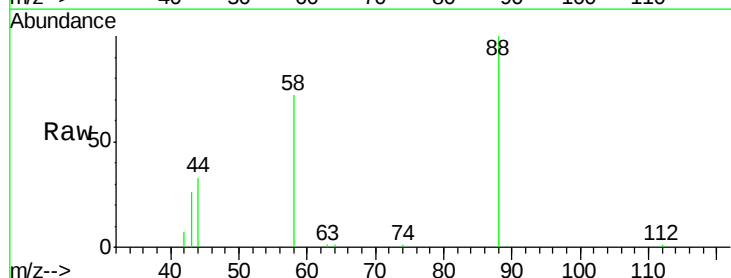
RT: 3.20 min Scan# 88

Delta R.T. 0.00 min

Lab File: BE090399.D

Acq: 7 Aug 2015 16:05

Tgt Ion:	88	Resp:	10695
Ion	Ratio	Lower	Upper
88	100		
58	85.3	70.0	105.0
43	32.5	28.4	42.6





#3

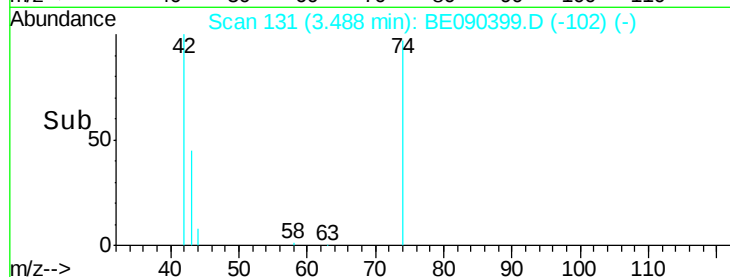
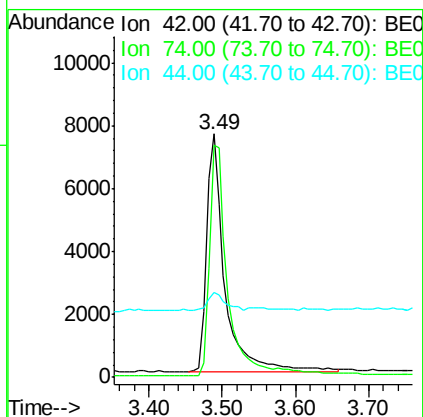
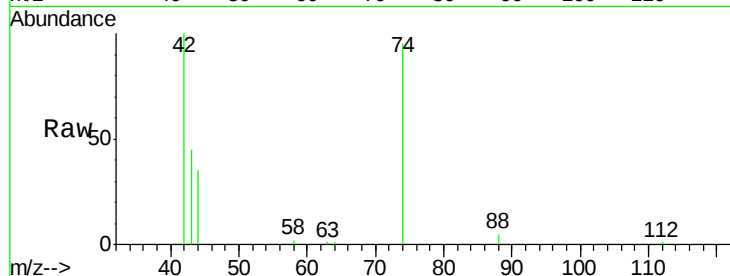
n-Nitrosodimethylamine
 Concen: 4.13 ng
 RT: 3.49 min Scan# 131
 Delta R.T. -0.01 min
 Lab File: BE090399.D
 Acq: 7 Aug 2015 16:05

Instrument :
 BNA_E
 ClientSampleId :
 PB84826BS

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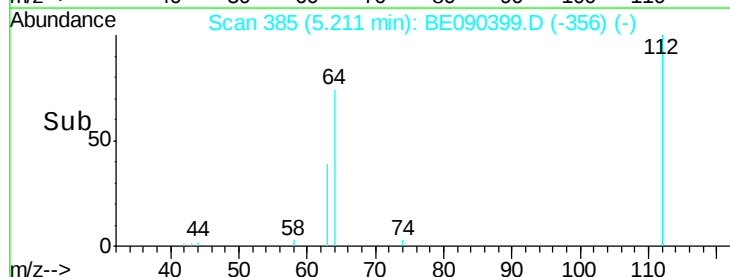
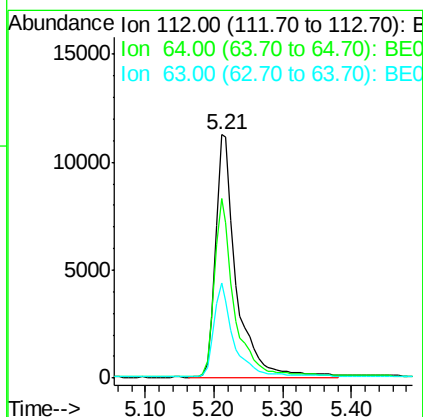
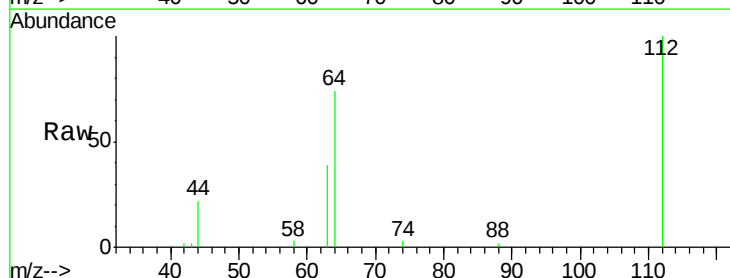
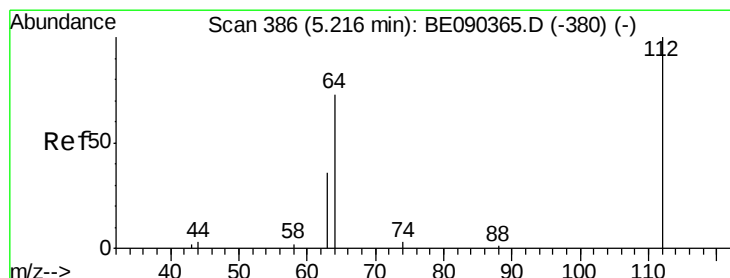
Tot Ion	Ratio	Lower	Upper
42	100		
74	100.0	75.2	112.8
44	7.4	8.7	13.1#



#4

2-Fluorophenol
 Concen: 7.64 ng
 RT: 5.21 min Scan# 385
 Delta R.T. -0.01 min
 Lab File: BE090399.D
 Acq: 7 Aug 2015 16:05

Tgt Ion	Ratio	Lower	Upper
112	100		
64	70.9	37.1	55.7#
63	37.1	19.5	29.3#





#5

Phenol-d6

Concen: 6.27 ng

RT: 6.77 min Scan# 666

Delta R.T. -0.01 min

Lab File: BE090399.D

Acq: 7 Aug 2015 16:05

Instrument :

BNA_E

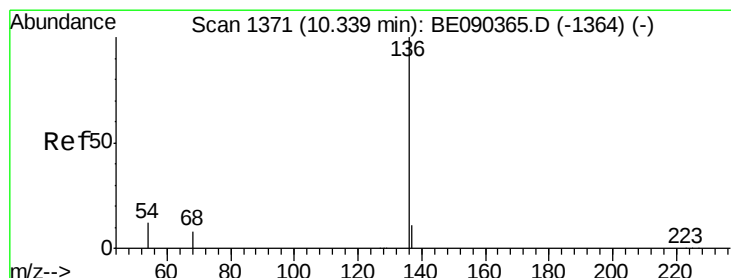
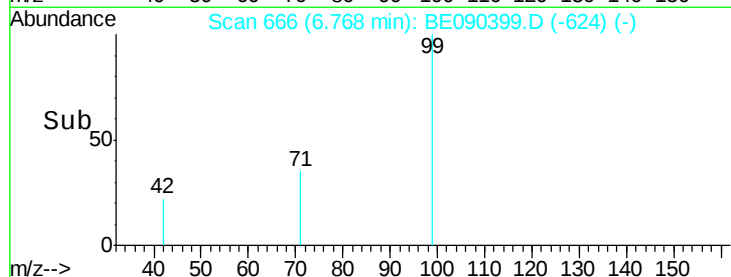
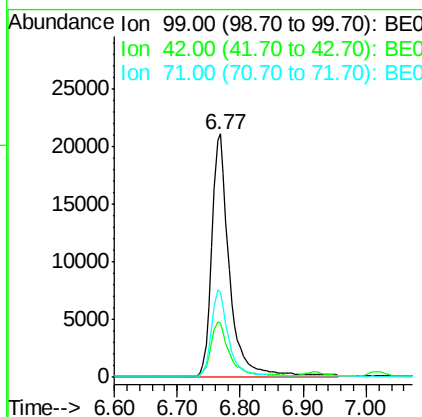
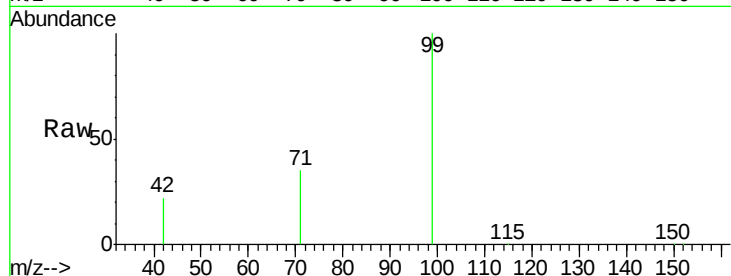
ClientSampleId :

PB84826BS

Tot Ion:	99	Resp:	41241
Ion Ratio	Lower	Upper	
99	100		
42	23.1	18.2	27.4
71	35.3	27.4	41.0

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#6

Naphthalene-d8

Concen: 5.00 ng

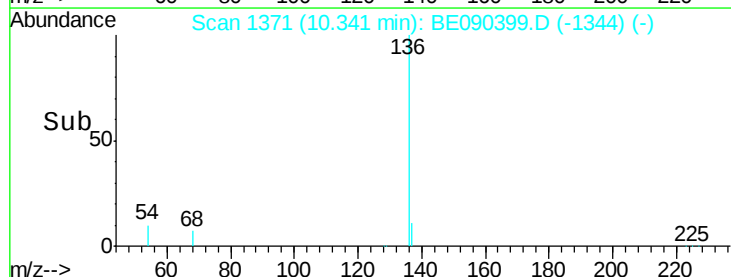
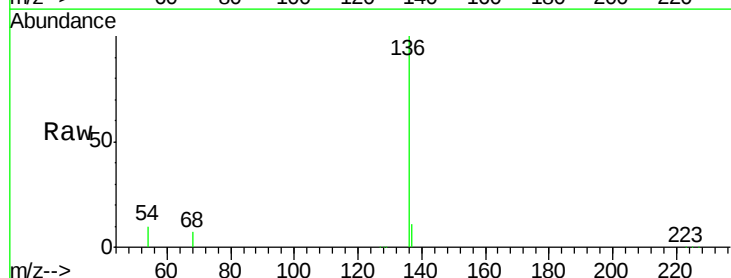
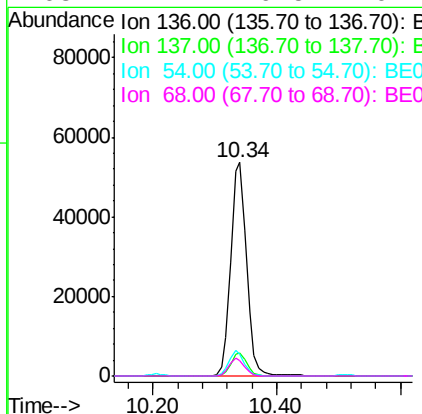
RT: 10.34 min Scan# 1371

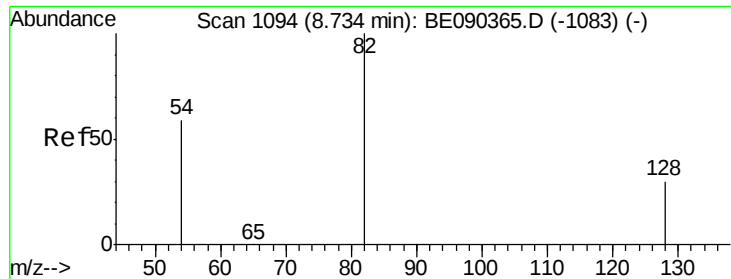
Delta R.T. 0.00 min

Lab File: BE090399.D

Acq: 7 Aug 2015 16:05

Tgt Ion:	136	Resp:	94417
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.7	13.1
54	10.2	9.4	14.0
68	7.4	6.5	9.7





#7

Nitrobenzene-d5

Concen: 3.78 ng

RT: 8.72 min Scan# 1092

Delta R.T. -0.01 min

Lab File: BE090399.D

Acq: 7 Aug 2015 16:05

Instrument :

BNA_E

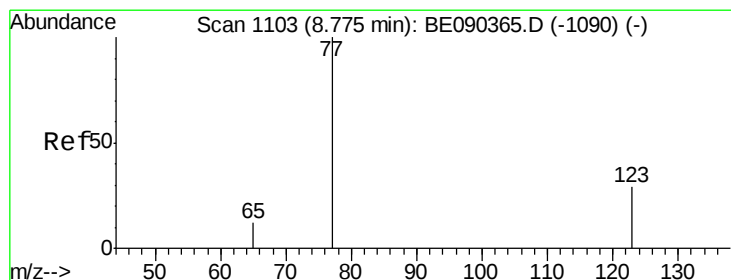
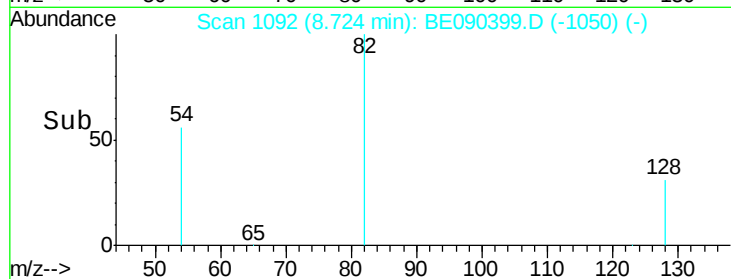
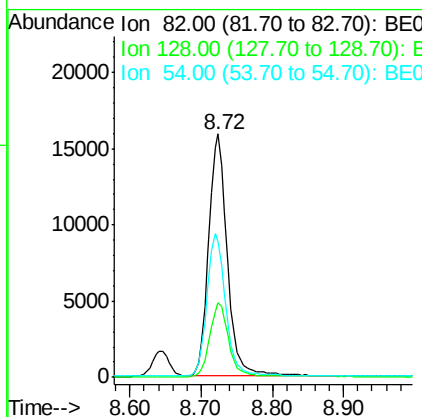
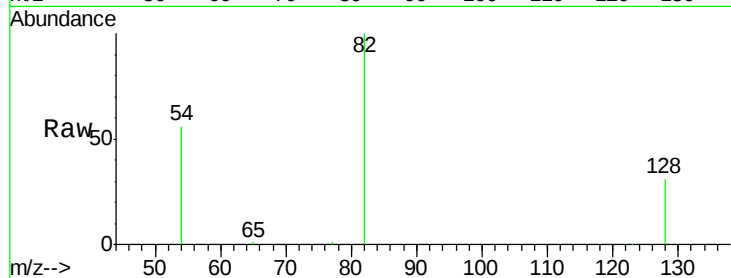
ClientSampleId :

PB84826BS

Manual Integrations
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8/10/2015 7:11:13 PM

Tot Ion:	82	Resp:	28671
Ion	Ratio	Lower	Upper
82	100		
128	30.9	25.0	37.6
54	56.1	48.8	73.2



#8

Nitrobenzene

Concen: 3.76 ng

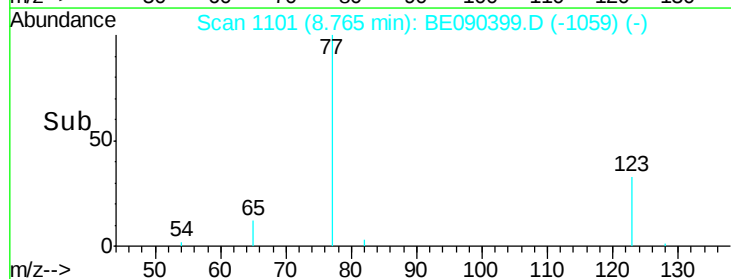
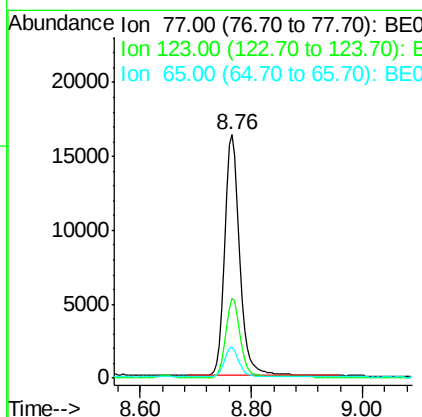
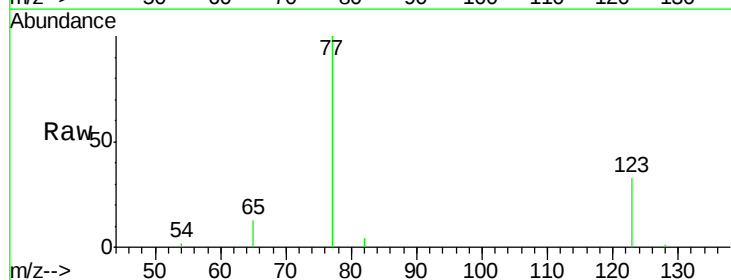
RT: 8.76 min Scan# 1101

Delta R.T. -0.01 min

Lab File: BE090399.D

Acq: 7 Aug 2015 16:05

Tgt Ion:	77	Resp:	30443
Ion	Ratio	Lower	Upper
77	100		
123	32.3	25.1	37.7
65	12.4	9.3	13.9





#9

Naphthalene

Concen: 3.95 ng

RT: 10.39 min Scan# 1377

Delta R.T. -0.01 min

Lab File: BE090399.D

Acq: 7 Aug 2015 16:05

Instrument :

BNA_E

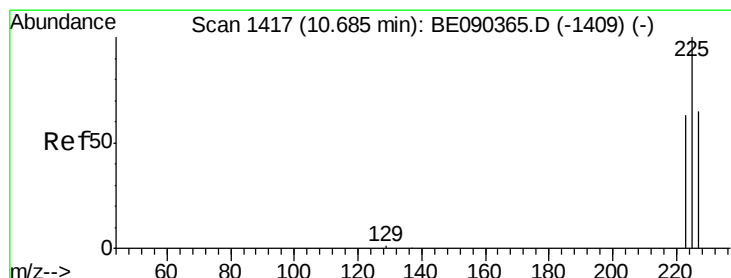
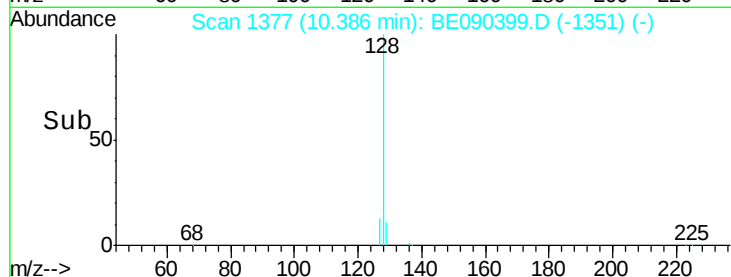
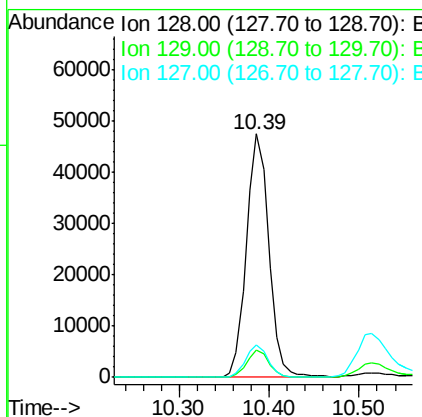
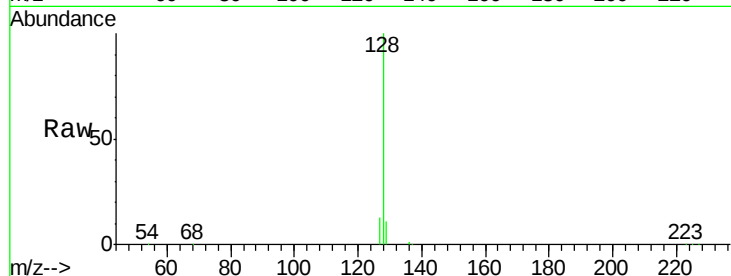
ClientSampleId :

PB84826BS

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Tot Ion:	128	Resp:	82313
Ion Ratio	Lower	Upper	
128	100		
129	11.0	9.8	14.6
127	13.2	10.6	16.0



#10

Hexachlorobutadiene

Concen: 4.42 ng

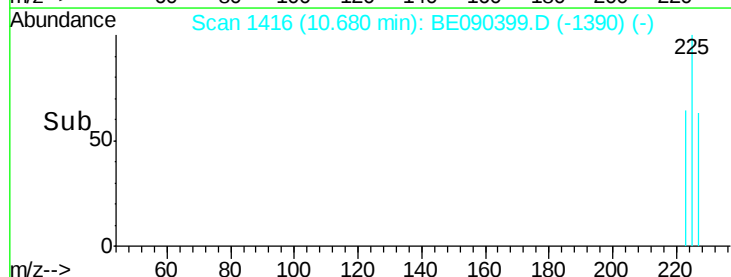
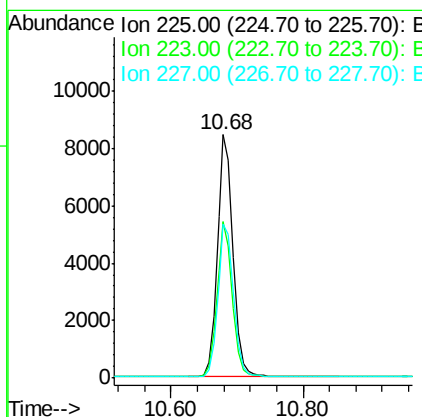
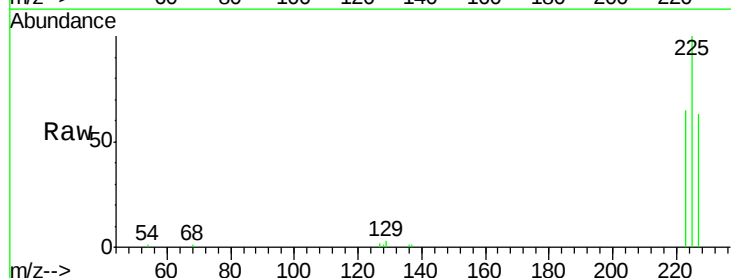
RT: 10.68 min Scan# 1416

Delta R.T. -0.01 min

Lab File: BE090399.D

Acq: 7 Aug 2015 16:05

Tgt Ion:	225	Resp:	13966
Ion Ratio	Lower	Upper	
225	100		
223	63.2	50.6	75.8
227	63.9	50.7	76.1





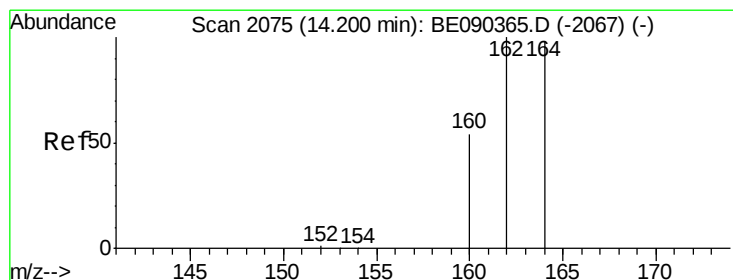
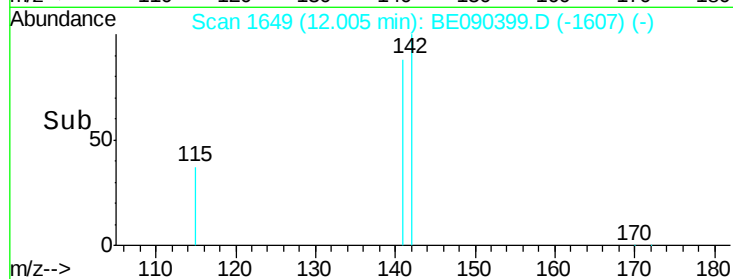
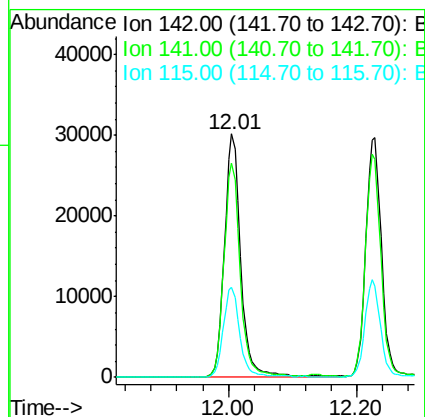
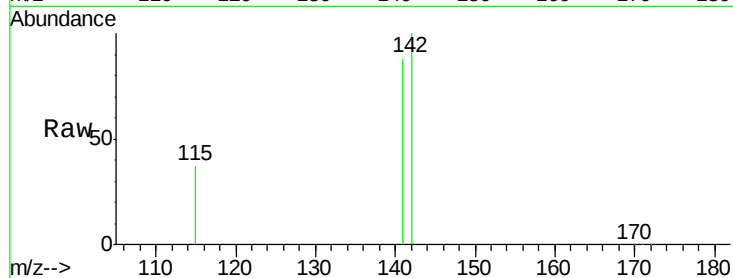
#11
2-Methylnaphthalene
Concen: 4.35 ng
RT: 12.01 min Scan# 1649
Delta R.T. -0.01 min
Lab File: BE090399.D
Acq: 7 Aug 2015 16:05

Instrument :
BNA_E
ClientSampleId :
PB84826BS

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.0	72.6	109.0
115	37.1	31.6	47.4

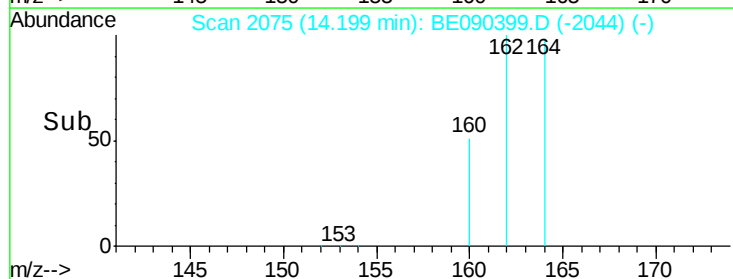
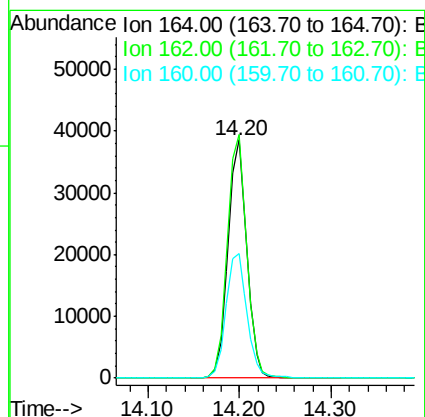
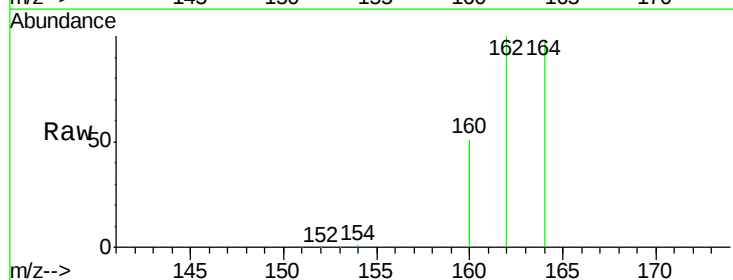
Manual Integrations
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.20 min Scan# 2075
Delta R.T. -0.00 min
Lab File: BE090399.D
Acq: 7 Aug 2015 16:05

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.3	81.8	122.8
160	52.2	44.2	66.4





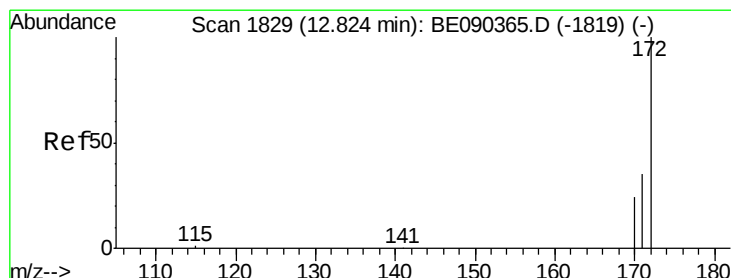
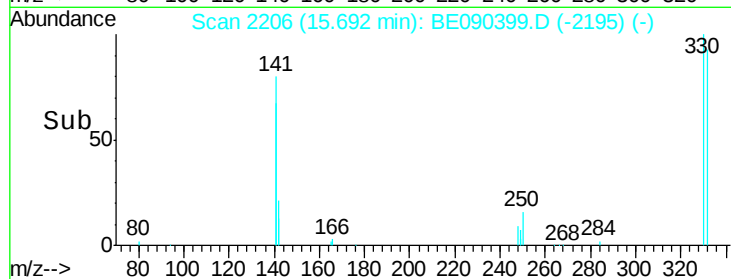
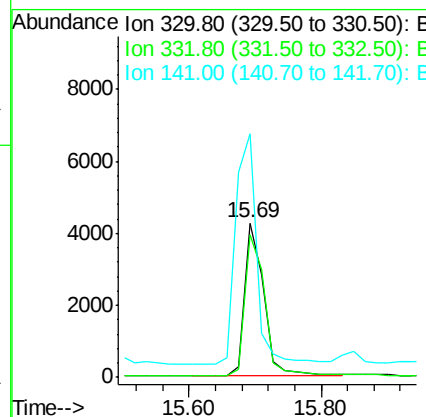
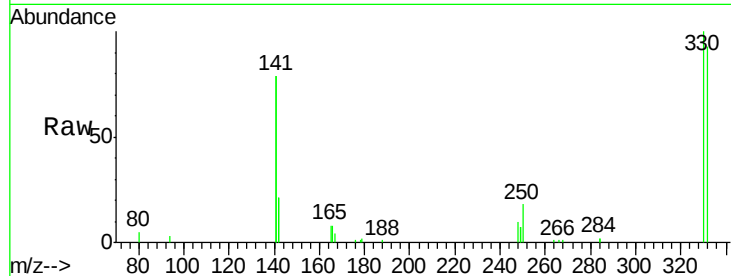
#13
 2,4,6-Tribromophenol
 Concen: 5.81 ng
 RT: 15.69 min Scan# 2206
 Delta R.T. -0.02 min
 Lab File: BE090399.D
 Acq: 7 Aug 2015 16:05

Instrument :
 BNA_E
 ClientSampleId :
 PB84826BS

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.2	75.8	113.6
141	167.8	114.4	171.6

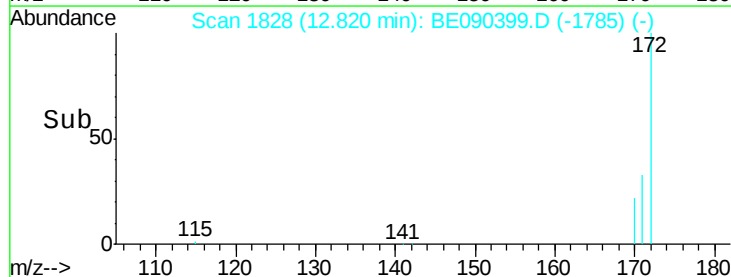
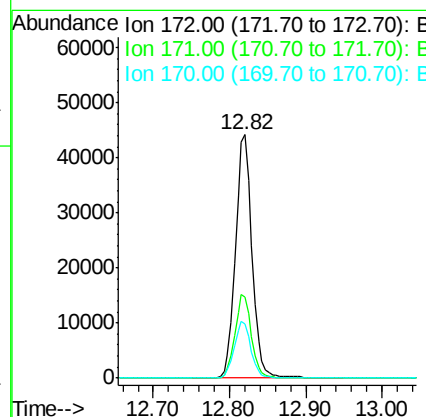
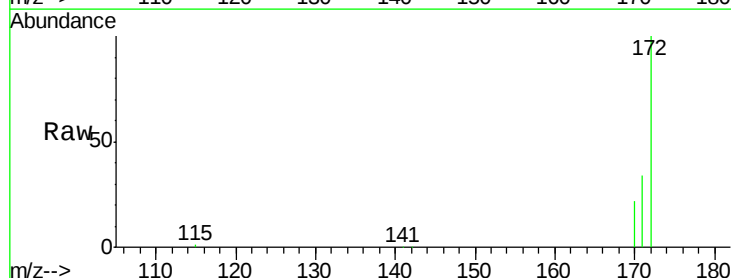
Manual Integrations
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 8/10/2015 7:11:13 PM



#14
 2-Fluorobiphenyl
 Concen: 4.43 ng
 RT: 12.82 min Scan# 1828
 Delta R.T. -0.00 min
 Lab File: BE090399.D
 Acq: 7 Aug 2015 16:05

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.5	28.5	42.7
170	22.4	19.8	29.8





#15

Acenaphthylene

Concen: 4.21 ng

RT: 13.91 min Scan# 2031

Delta R.T. -0.00 min

Lab File: BE090399.D

Acq: 7 Aug 2015 16:05

Instrument :

BNA_E

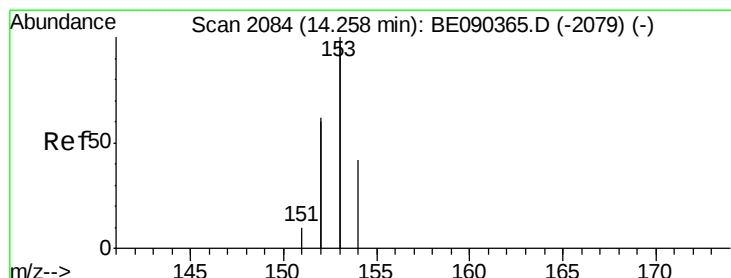
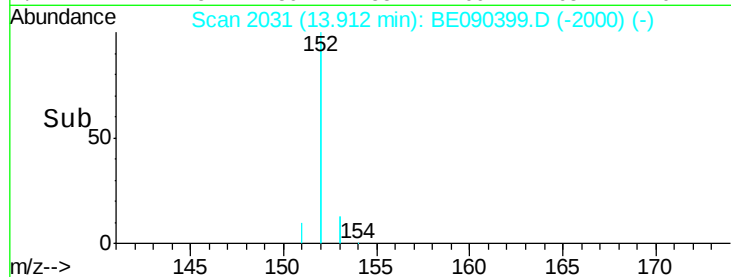
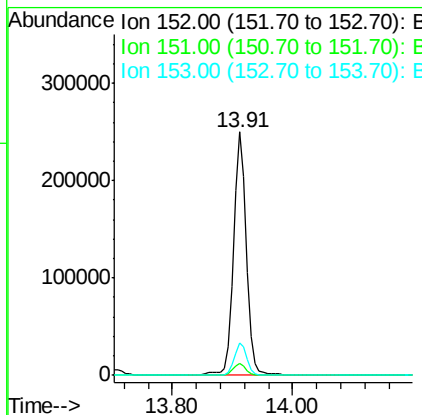
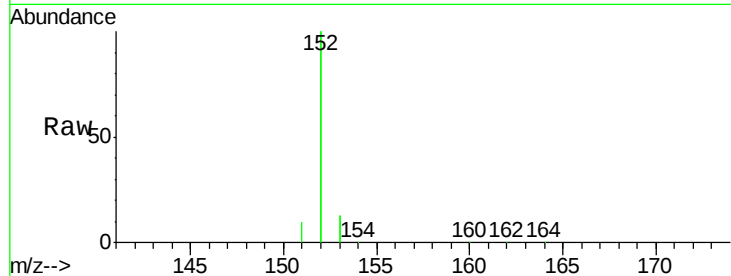
ClientSampleId :

PB84826BS

Tot Ion:	152	Resp:	374027
Ion Ratio	Lower	Upper	
152	100		
151	4.8	3.8	5.8
153	13.0	10.3	15.5

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#16

Acenaphthene

Concen: 4.11 ng

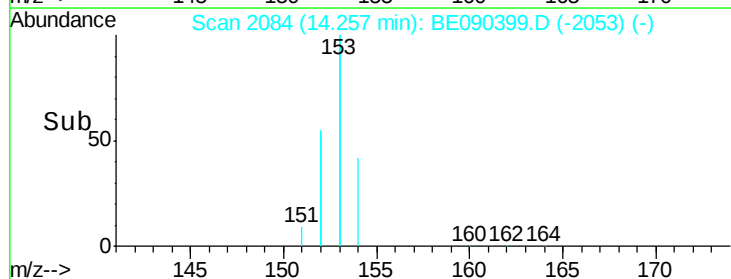
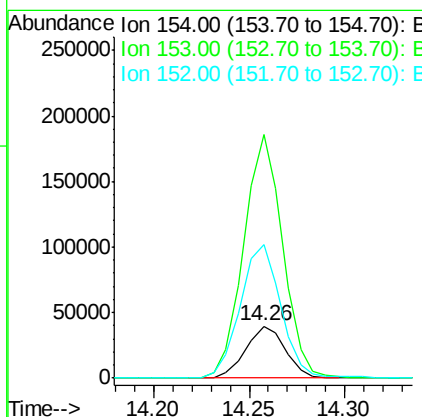
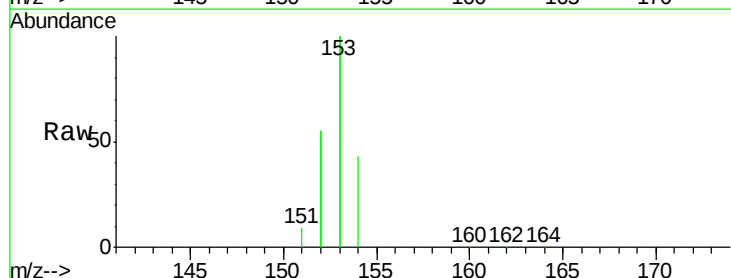
RT: 14.26 min Scan# 2084

Delta R.T. -0.00 min

Lab File: BE090399.D

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Tgt Ion:	154	Resp:	56763
Ion Ratio	Lower	Upper	
154	100		
153	463.8	376.2	564.2
152	264.3	235.0	352.4





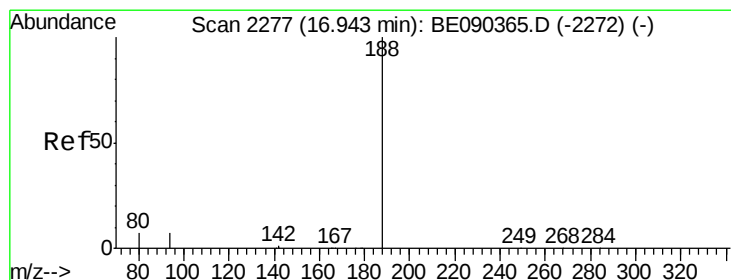
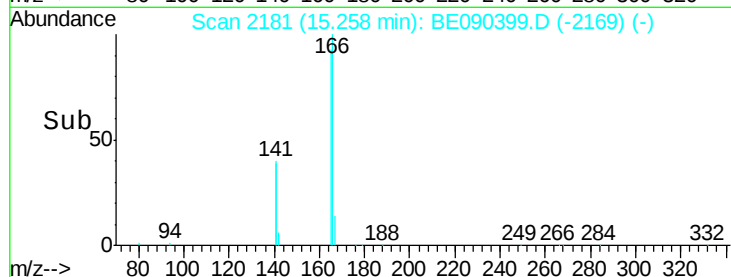
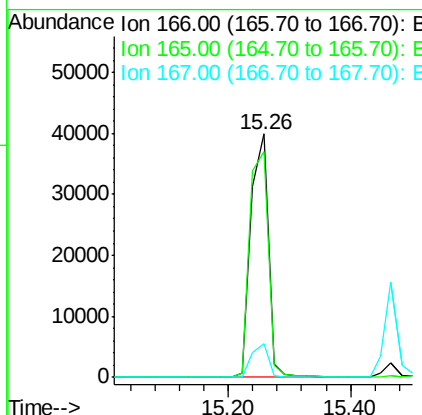
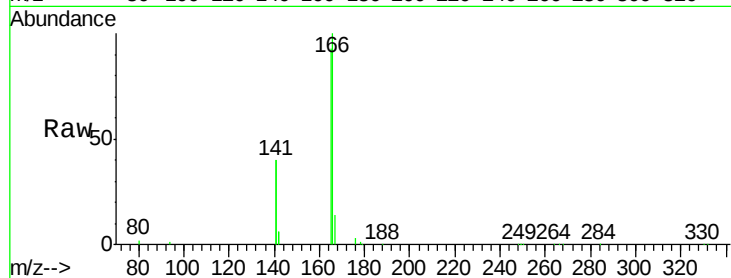
#17
Fluorene
 Concen: 4.35 ng
 RT: 15.26 min Scan# 2181
 Delta R.T. 0.00 min
 Lab File: BE090399.D
 Acq: 7 Aug 2015 16:05

Instrument :
 BNA_E
 ClientSampleID :
 PB84826BS

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.6	81.5	122.3
167	13.5	11.4	17.0

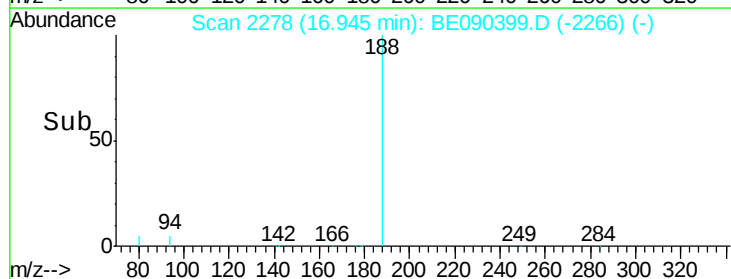
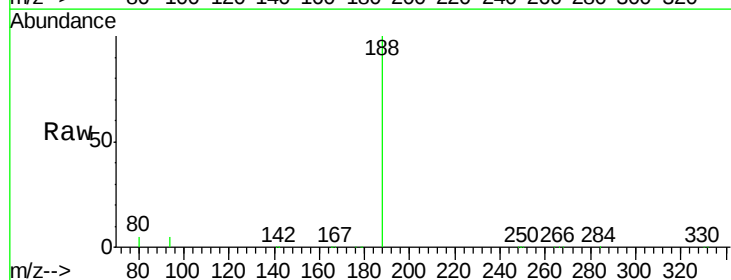
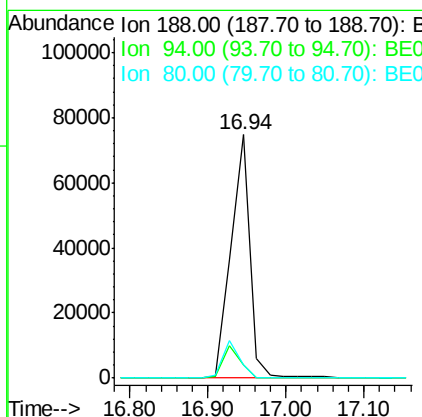
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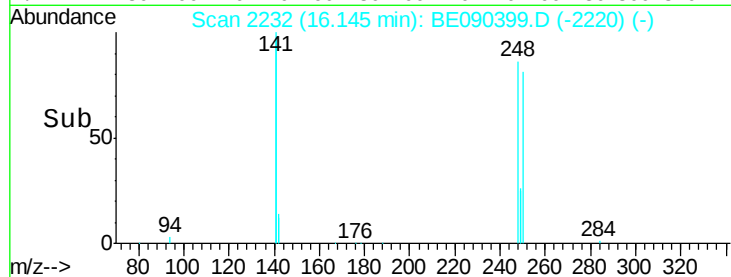
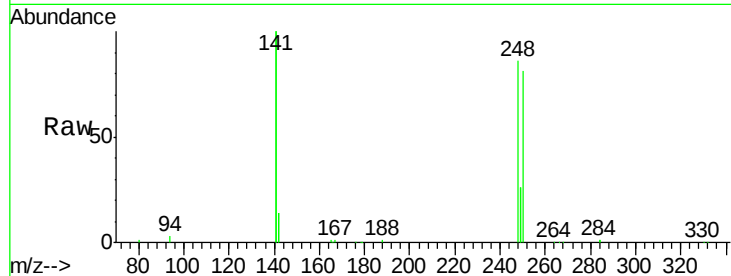
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#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 16.94 min Scan# 2278
 Delta R.T. 0.00 min
 Lab File: BE090399.D
 Acq: 7 Aug 2015 16:05

Tgt Ion	Ratio	Lower	Upper
188	100		
94	5.2	5.7	8.5#
80	5.3	5.8	8.8#





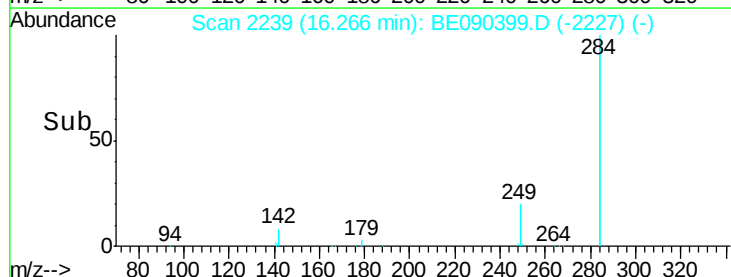
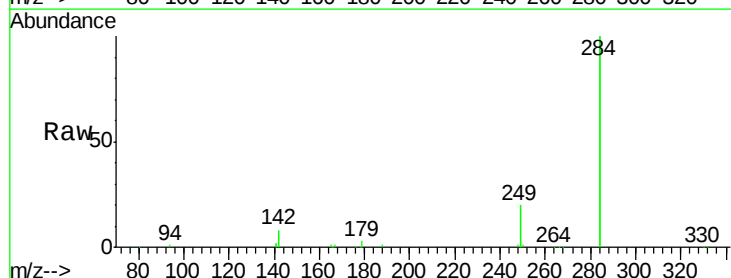
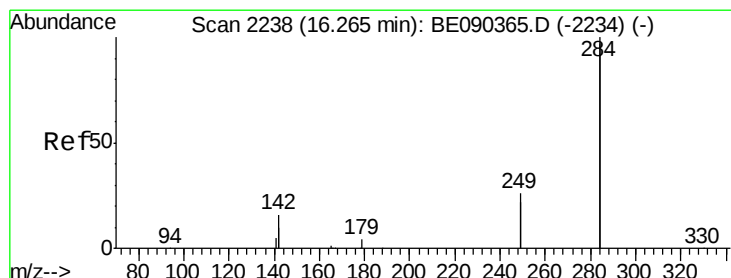
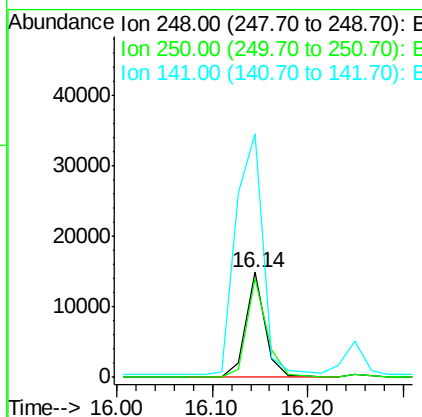
#19
4-Bromophenyl-phenylether
Concen: 4.25 ng
RT: 16.14 min Scan# 2232
Delta R.T. 0.00 min
Lab File: BE090399.D
Acq: 7 Aug 2015 16:05

Instrument :
BNA_E
ClientSampleId :
PB84826BS

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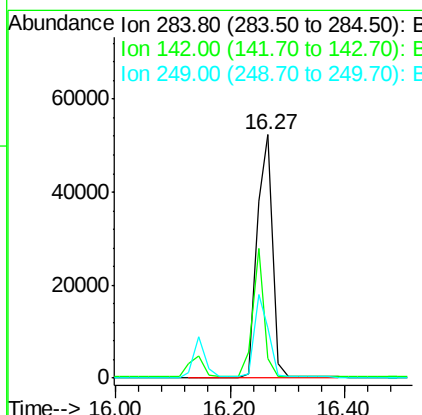
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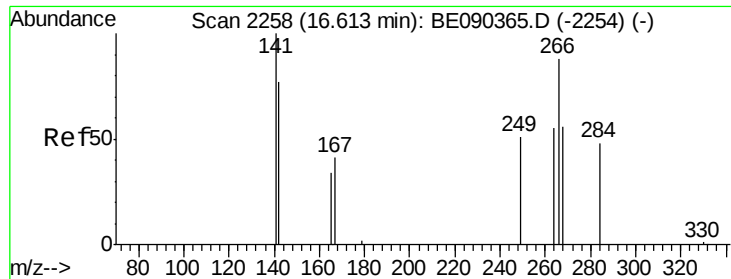
Tot Ion	Ratio	Lower	Upper
248	100		
250	97.3	79.0	118.6
141	319.4	239.5	359.3



#20
Hexachlorobenzene
Concen: 3.89 ng
RT: 16.27 min Scan# 2239
Delta R.T. 0.00 min
Lab File: BE090399.D
Acq: 7 Aug 2015 16:05

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.2	30.1	45.1
249	31.4	25.7	38.5





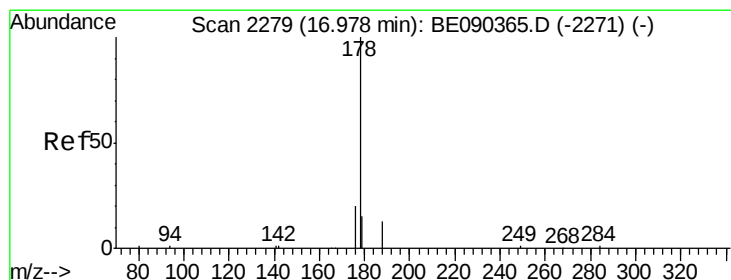
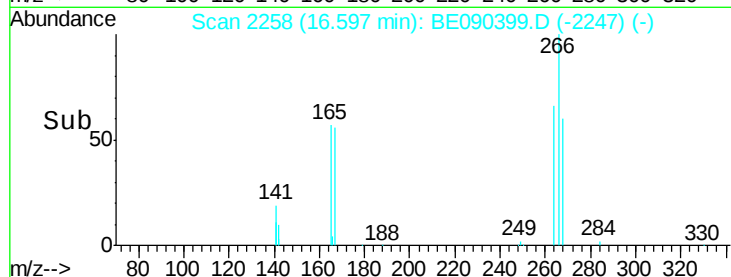
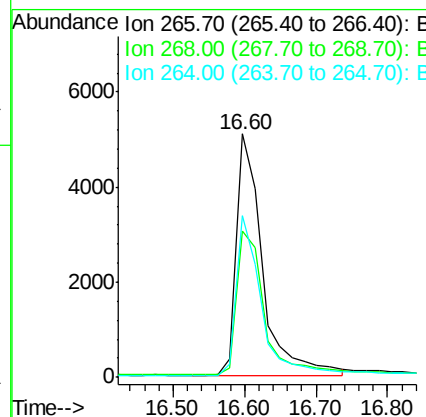
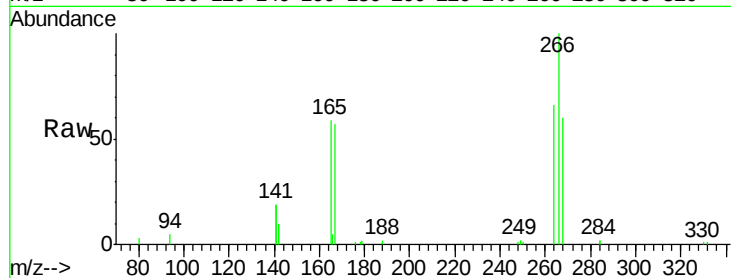
#21
 Pentachlorophenol
 Concen: 6.91 ng
 RT: 16.60 min Scan# 2258
 Delta R.T. -0.01 min
 Lab File: BE090399.D
 Acq: 7 Aug 2015 16:05

Instrument :
 BNA_E
 ClientSampleId :
 PB84826BS

Tot Ion	Ratio	Lower	Upper
266	100		
268	60.1	58.5	87.7
264	66.5	56.0	84.0

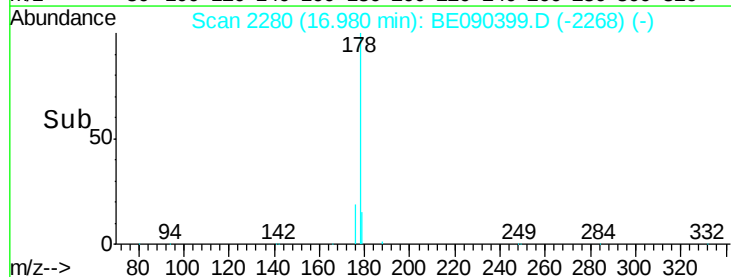
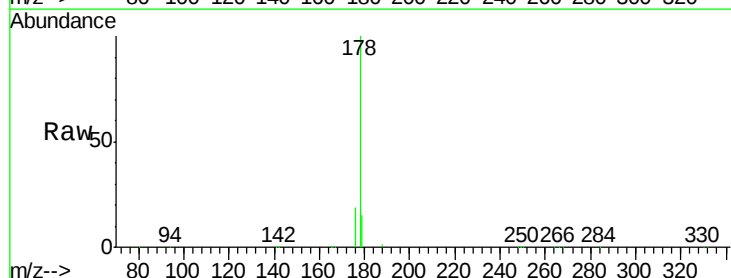
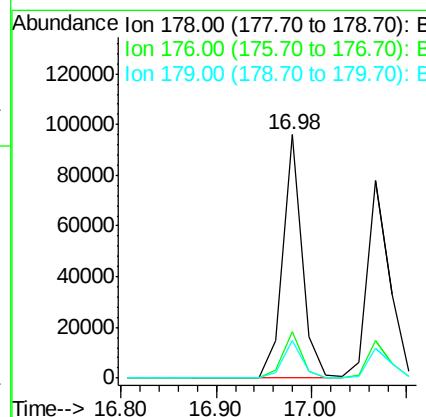
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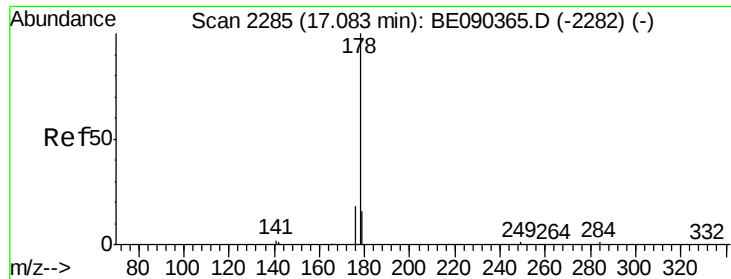
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#22
 Phenanthrene
 Concen: 4.26 ng
 RT: 16.98 min Scan# 2280
 Delta R.T. 0.00 min
 Lab File: BE090399.D
 Acq: 7 Aug 2015 16:05

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.5	12.5	18.7





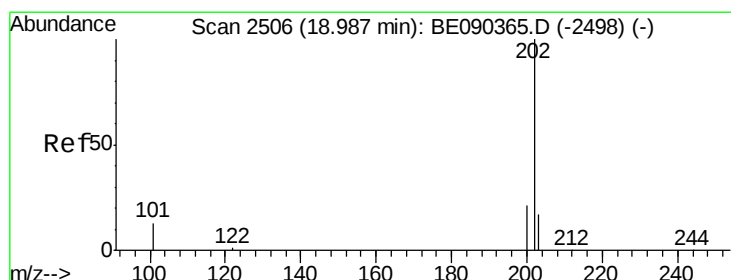
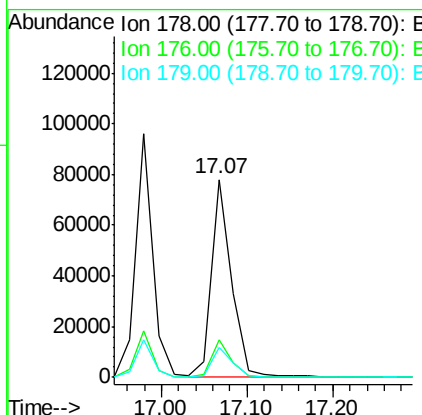
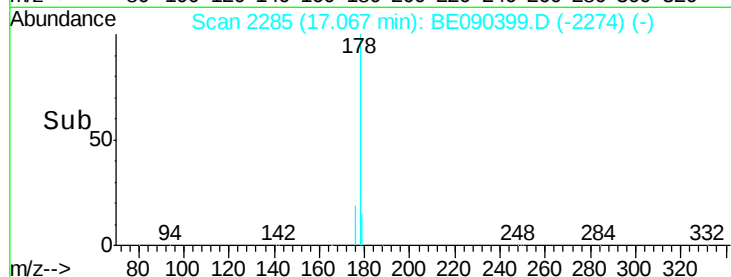
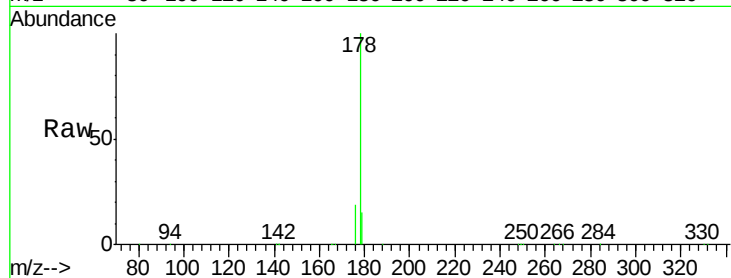
#23
 Anthracene
 Concen: 4.89 ng
 RT: 17.07 min Scan# 2285
 Delta R.T. -0.02 min
 Lab File: BE090399.D
 Acq: 7 Aug 2015 16:05

Instrument :
 BNA_E
 ClientSampleId :
 PB84826BS

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.9	22.3
179	15.5	12.2	18.4

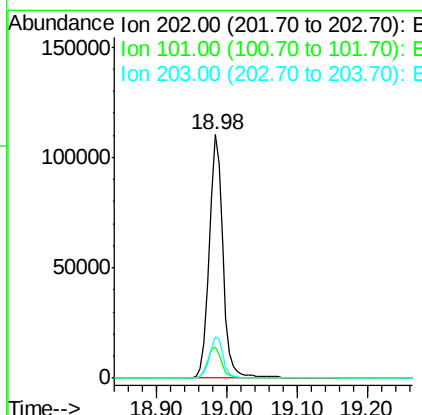
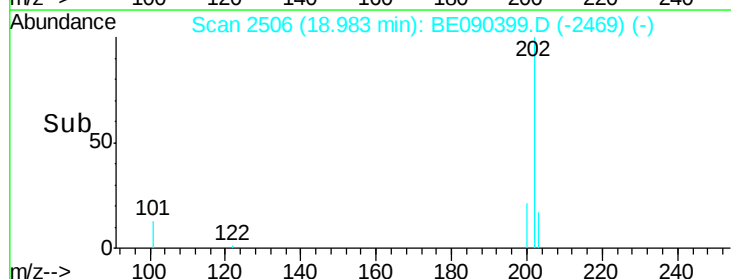
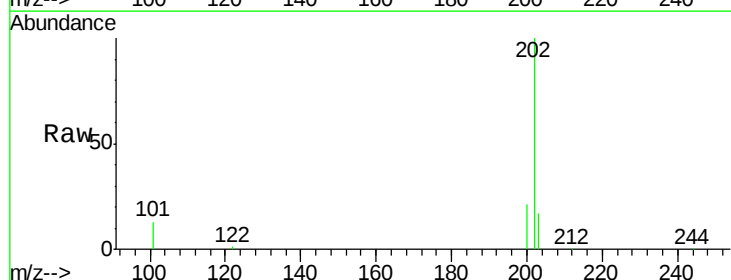
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#24
 Fluoranthene
 Concen: 4.81 ng
 RT: 18.98 min Scan# 2506
 Delta R.T. -0.00 min
 Lab File: BE090399.D
 Acq: 7 Aug 2015 16:05

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.0	10.3	15.5
203	17.1	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: BE090399.D

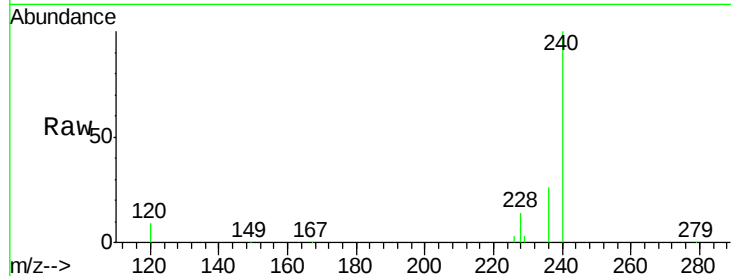
Acq: 7 Aug 2015 16:05

Instrument :

BNA_E

ClientSampleId :

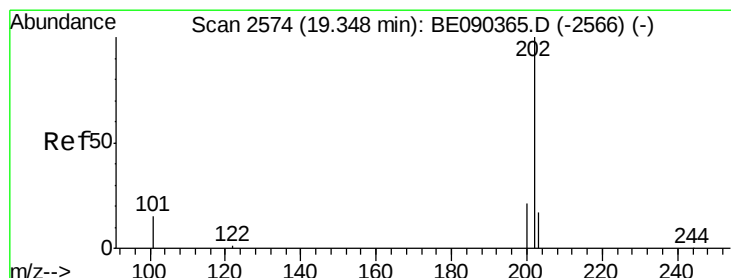
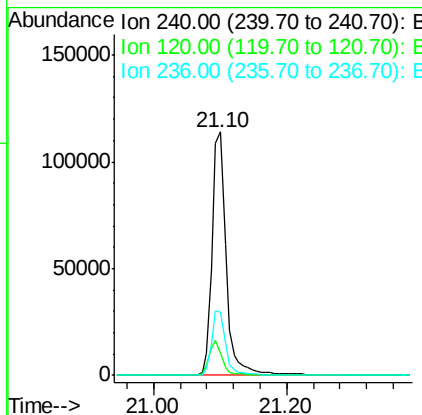
PB84826BS



Tot Ion:	240	Resp:	164946
Ion Ratio	Lower	Upper	
240	100		
120	8.9	8.3	12.5
236	25.9	21.0	31.4

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#26

Pyrene

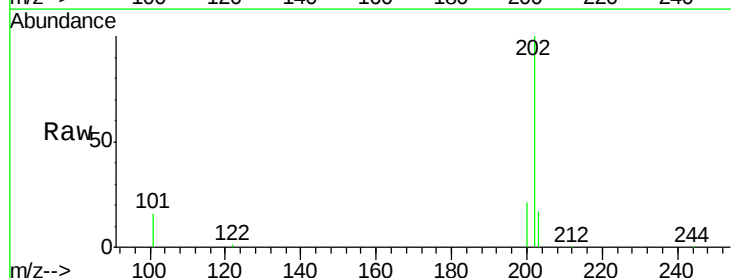
Concen: 4.63 ng

RT: 19.34 min Scan# 2574

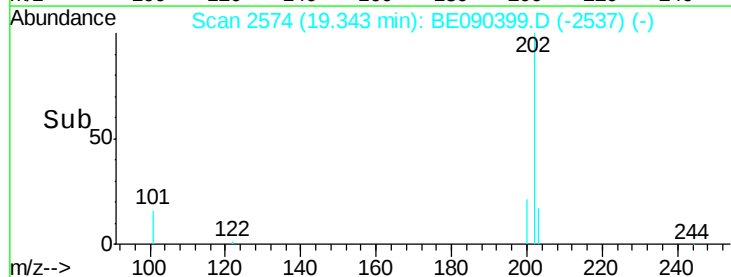
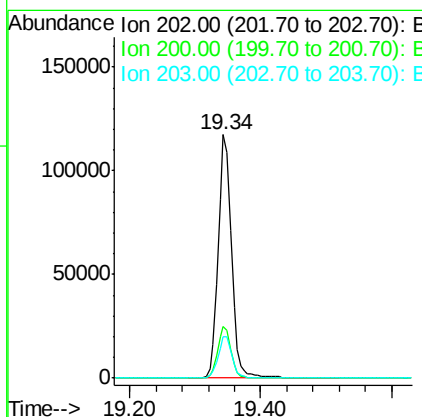
Delta R.T. -0.00 min

Lab File: BE090399.D

Acq: 7 Aug 2015 16:05



Tgt Ion:	202	Resp:	165403
Ion Ratio	Lower	Upper	
202	100		
200	21.3	16.7	25.1
203	17.9	13.8	20.8





#27

Terphenyl-d14

Concen: 4.59 ng

RT: 19.56 min Scan# 2614

Delta R.T. -0.01 min

Lab File: BE090399.D

Acq: 7 Aug 2015 16:05

Instrument :

BNA_E

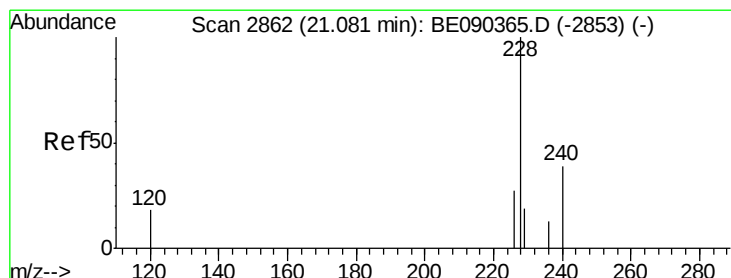
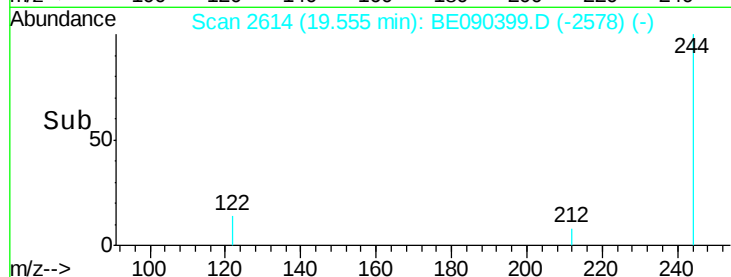
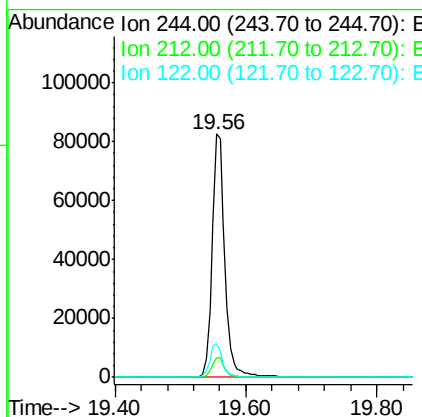
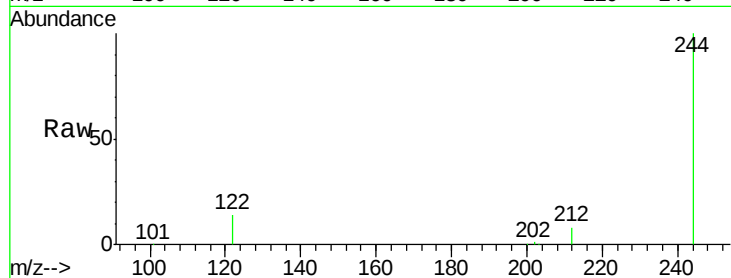
ClientSampled :

PB84826BS

Tot Ion:	244	Resp:	111649
Ion Ratio	Lower	Upper	
244	100		
212	8.2	6.6	9.8
122	14.1	10.2	15.4

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#28

Benzo(a)anthracene

Concen: 4.43 ng

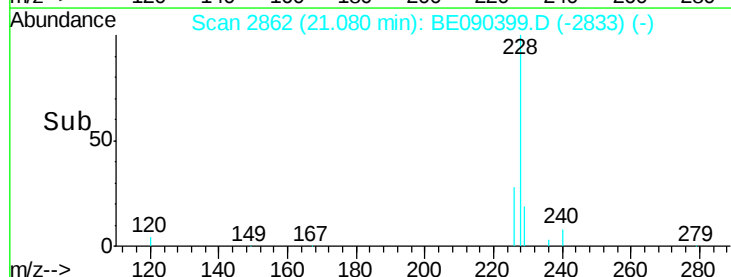
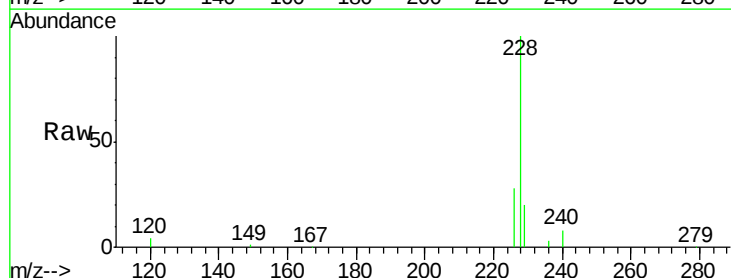
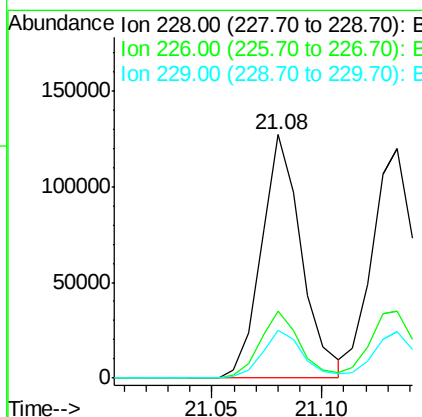
RT: 21.08 min Scan# 2862

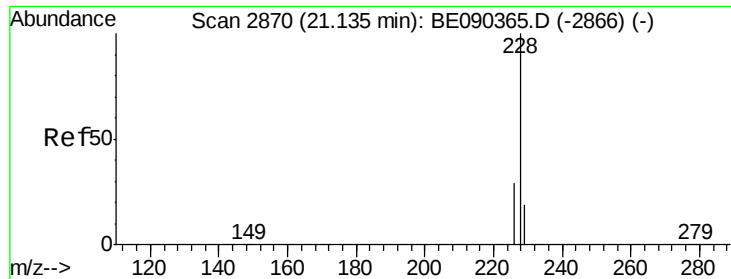
Delta R.T. -0.00 min

Lab File: BE090399.D

Acq: 7 Aug 2015 16:05

Tgt Ion:	228	Resp:	161976
Ion Ratio	Lower	Upper	
228	100		
226	27.6	21.9	32.9
229	19.5	15.4	23.0





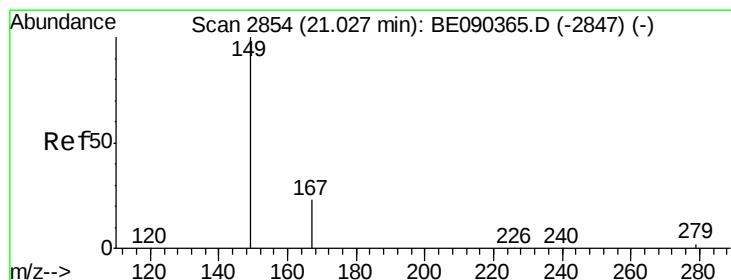
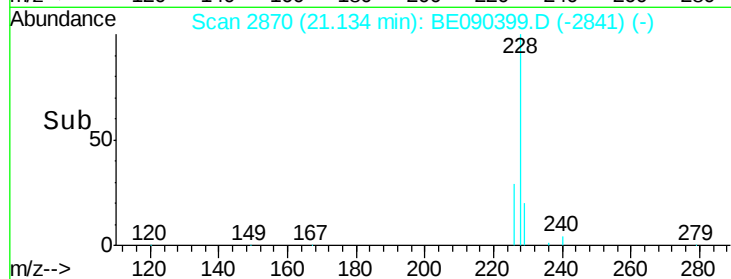
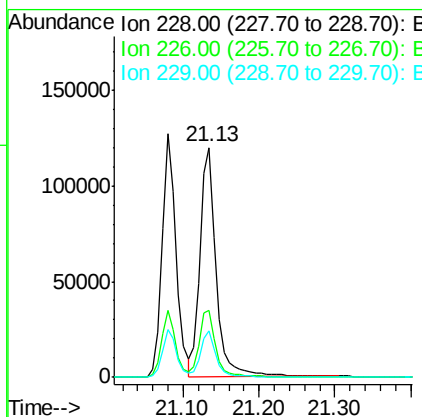
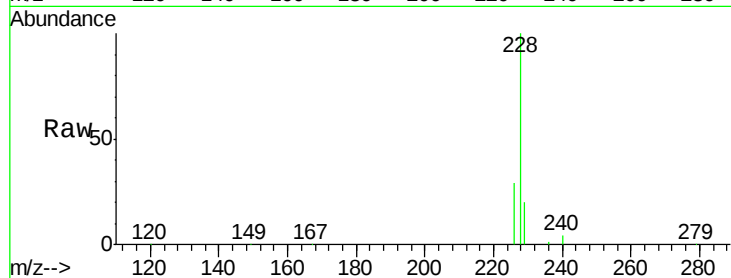
#29
Chrysene
Concen: 4.04 ng
RT: 21.13 min Scan# 2870
Delta R.T. -0.00 min
Lab File: BE090399.D
Acq: 7 Aug 2015 16:05

Instrument :
BNA_E
ClientSampleId :
PB84826BS

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

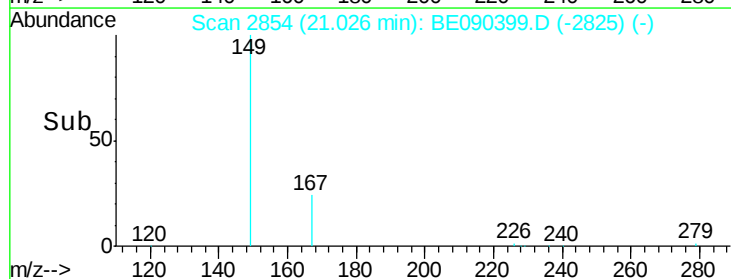
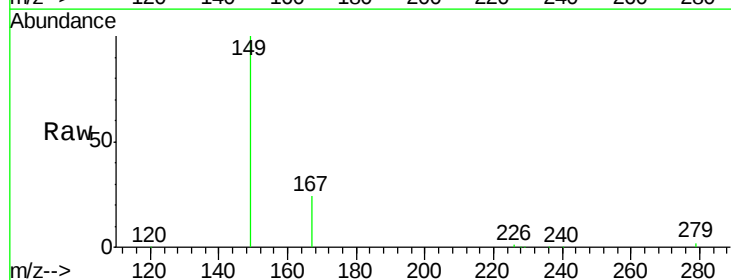
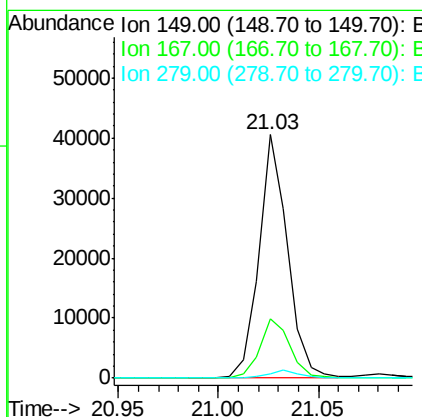
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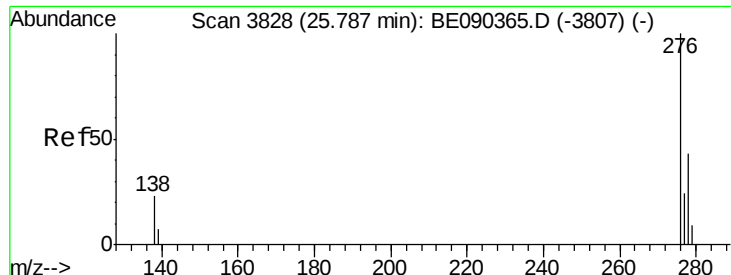
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#30
Bis(2-ethylhexyl)phthalate
Concen: 3.46 ng
RT: 21.03 min Scan# 2854
Delta R.T. -0.00 min
Lab File: BE090399.D
Acq: 7 Aug 2015 16:05

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.5	19.8	29.8
279	3.0	2.4	3.6





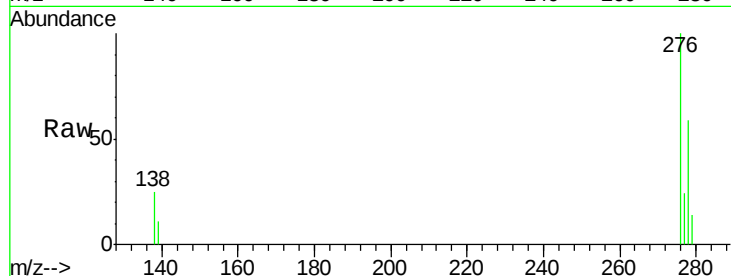
#31
Indeno(1,2,3-cd)pyrene
Concen: 3.46 ng
RT: 25.79 min Scan# 3829
Delta R.T. 0.00 min
Lab File: BE090399.D
Acq: 7 Aug 2015 16:05

Instrument :
BNA_E
ClientSampleId :
PB84826BS

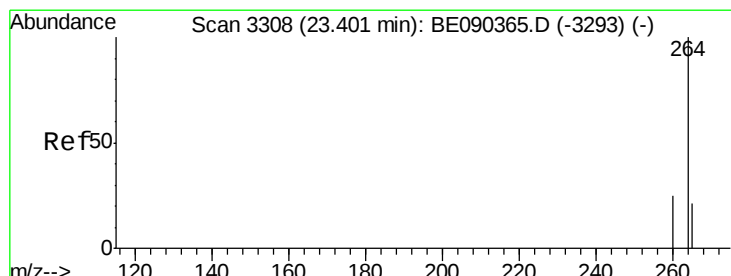
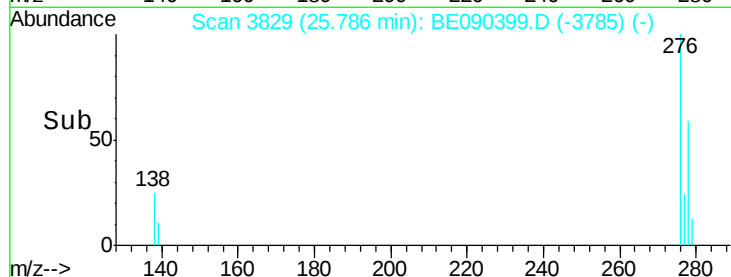
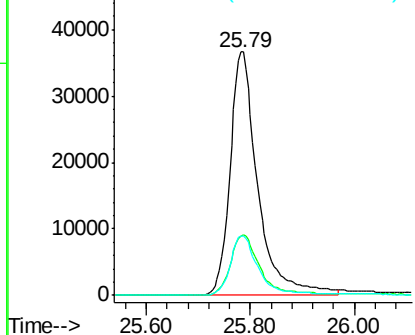
Tot Ion	Ratio	Lower	Upper
276	100		
138	25.9	18.8	28.2
277	24.8	18.2	27.4

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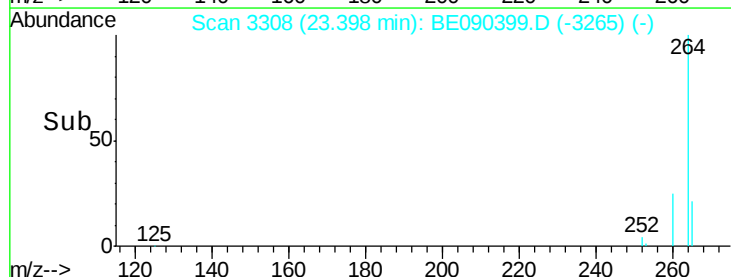
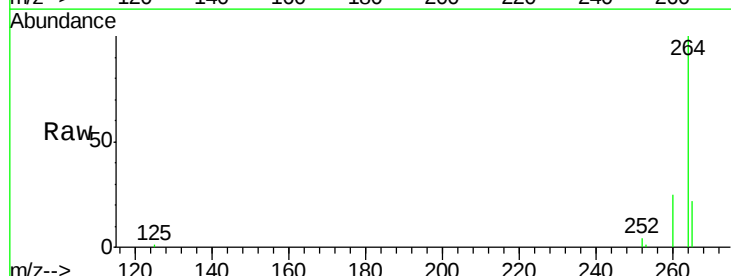
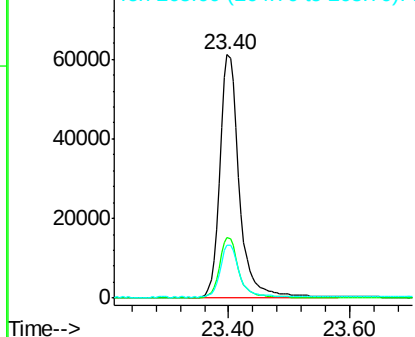
Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



#32
Perylene-d12
Concen: 5.00 ng
RT: 23.40 min Scan# 3308
Delta R.T. -0.00 min
Lab File: BE090399.D
Acq: 7 Aug 2015 16:05

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.9	20.1	30.1
265	21.9	17.2	25.8

Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#33

Benzo(b)fluoranthene

Concen: 4.30 ng

RT: 22.70 min Scan# 3154

Delta R.T. -0.01 min

Lab File: BE090399.D

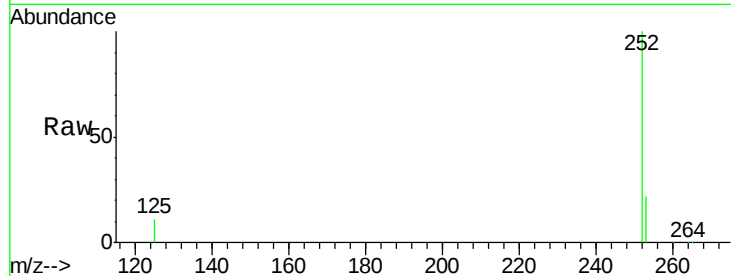
Acq: 7 Aug 2015 16:05

Instrument :

BNA_E

ClientSampled :

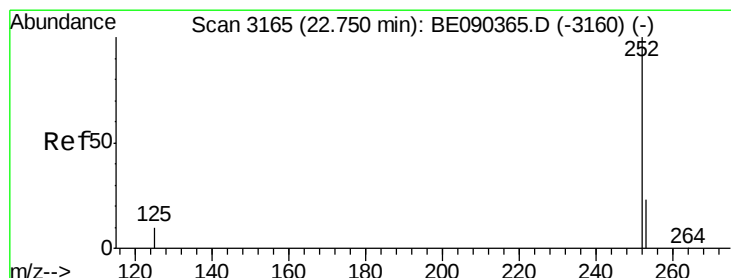
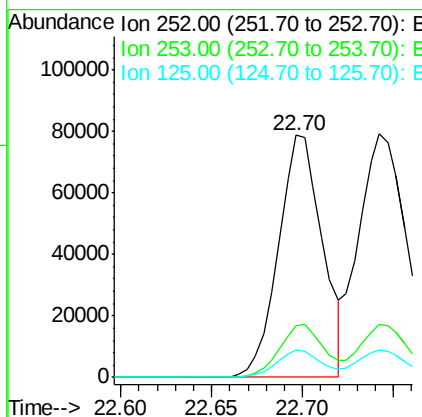
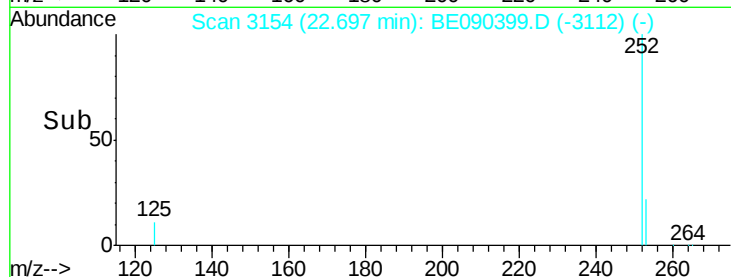
PB84826BS



Tot Ion	Ion	Ratio	Resp	Lower	Upper
252	100		131760		
253	21.6	18.1	27.1		
125	11.3	9.4	14.2		

Manual Integrations
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#34

Benzo(k)fluoranthene

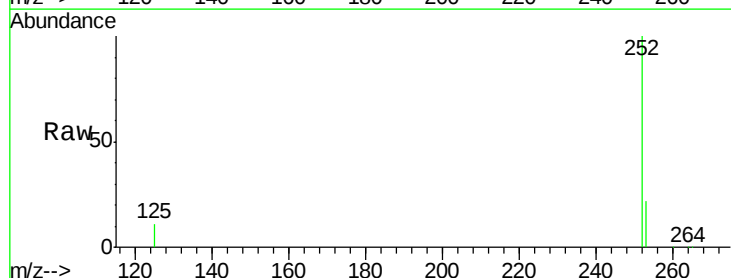
Concen: 4.38 ng m

RT: 22.74 min Scan# 3164

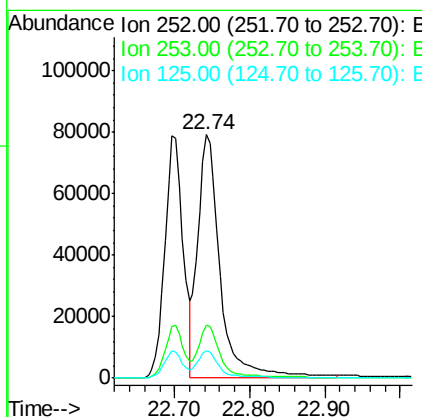
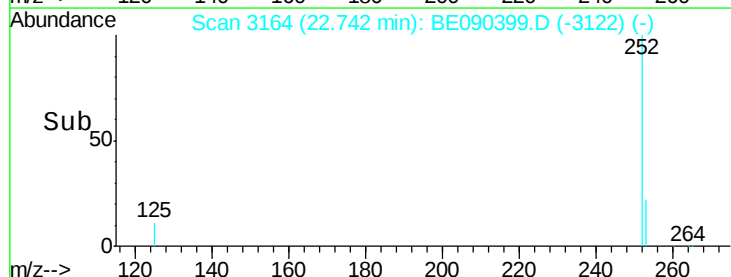
Delta R.T. -0.01 min

Lab File: BE090399.D

Acq: 7 Aug 2015 16:05



Tgt Ion	Ion	Ratio	Resp	Lower	Upper
252	100		166298		
253	21.8	18.1	27.1		
125	11.3	9.1	13.7		





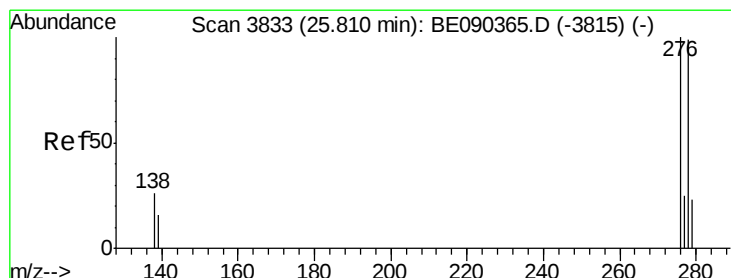
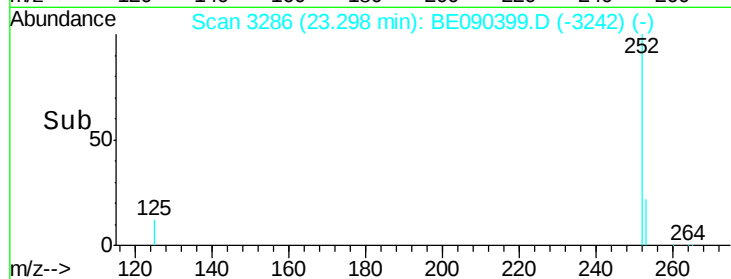
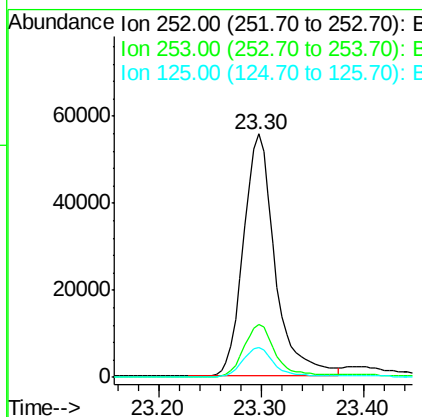
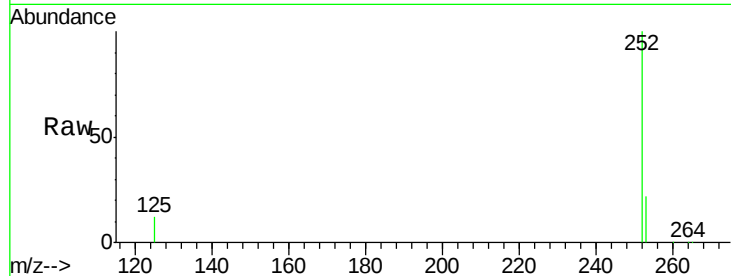
#35
Benzo(a)pyrene
Concen: 4.16 ng
RT: 23.30 min Scan# 3286
Delta R.T. 0.00 min
Lab File: BE090399.D
Acq: 7 Aug 2015 16:05

Instrument :
BNA_E
ClientSampleId :
PB84826BS

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.6	26.4
125	12.2	9.8	14.6

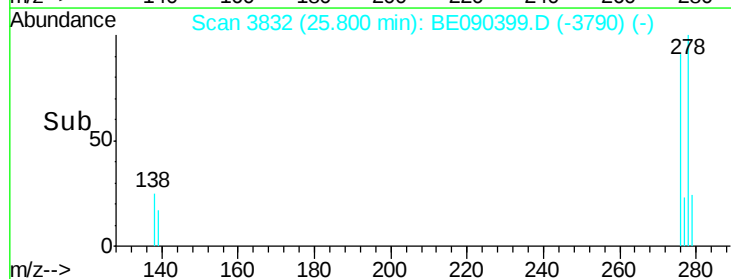
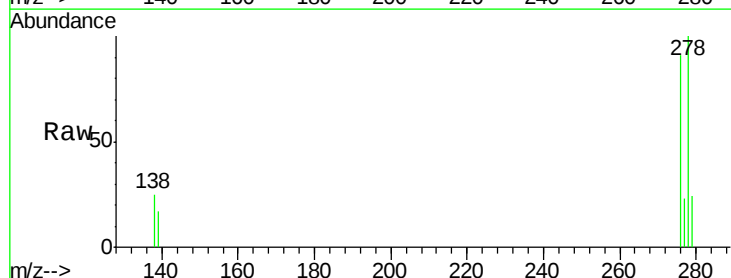
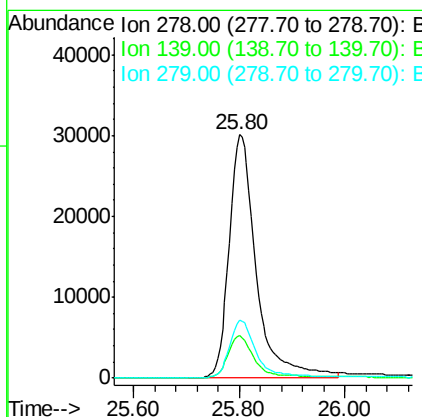
Manual Integrations
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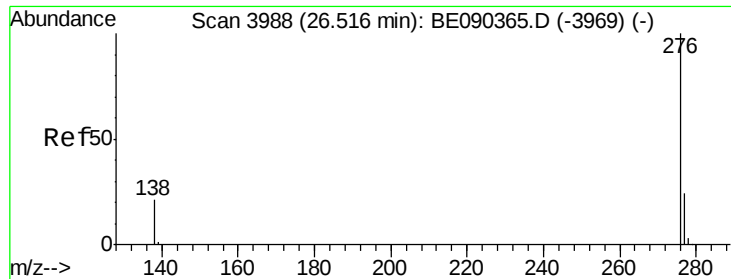
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#36
Dibenzo(a,h)anthracene
Concen: 3.82 ng
RT: 25.80 min Scan# 3832
Delta R.T. -0.01 min
Lab File: BE090399.D
Acq: 7 Aug 2015 16:05

Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.3	14.2	21.4
279	23.8	20.1	30.1





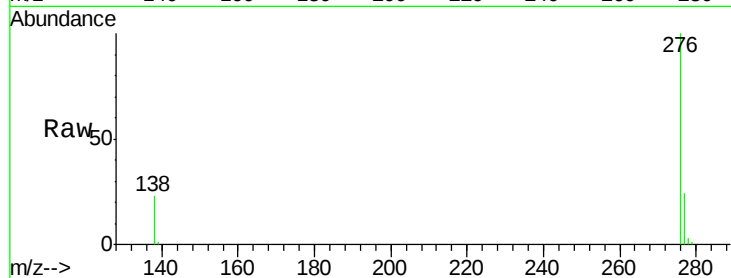
#37
 Benzo(a,h,i)perylene
 Concen: 4.68 ng
 RT: 26.51 min Scan# 3988
 Delta R.T. -0.01 min
 Lab File: BE090399.D
 Acq: 7 Aug 2015 16:05

Instrument :
 BNA_E
 ClientSampleId :
 PB84826BS

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.7	20.1	30.1
138	23.2	18.1	27.1

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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

