

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE062915\
 Data File : BE090006.D
 Acq On : 30 Jun 2015 7:07
 Operator : TP/IZ
 Sample : G2810-26
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0520006-150625

Manual Integrations
 APPROVED

apatel
 6/30/2015 4:55:18 PM

Quant Time: Jun 30 09:11:34 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-SIM-BE062915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 30 07:01:01 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.62	152	21116	5.00	ng	0.00
6) Naphthalene-d8	10.38	136	101783	5.00	ng	0.00
12) Acenaphthene-d10	14.23	164	61436	5.00	ng	0.00
18) Phenanthrene-d10	16.98	188	138577	5.00	ng	0.00
25) Chrysene-d12	21.14	240	146193	5.00	ng	0.00
32) Perylene-d12	23.46	264	142674	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.26	112	43410	8.95	ng	0.00
5) Phenol-d6	6.81	99	68739	10.13	ng	0.00
7) Nitrobenzene-d5	8.76	82	41240	5.10	ng	0.00
13) 2,4,6-Tribromophenol	15.73	330	21806	12.11	ng	0.00
14) 2-Fluorobiphenyl	12.86	172	87887	4.76	ng	0.00
27) Terphenyl-d14	19.59	244	131145	5.38	ng	0.00
Target Compounds						
9) Naphthalene	10.43	128	26896	1.17	ng	Qvalue 99
11) 2-Methylnaphthalene	12.05	142	4471	0.29	ng	99
15) Acenaphthylene	13.95	152	3386	0.03	ng	# 86
16) Acenaphthene	14.30	154	19398	1.21	ng	96
17) Fluorene	15.29	166	11502	0.53	ng	99
22) Phenanthrene	17.01	178	474066	13.35	ng	98
23) Anthracene	17.10	178	102365m	3.15	ng	
24) Fluoranthene	19.02	202	1454805	36.69	ng	97
26) Pyrene	19.38	202	1354634	38.88	ng	# 93
28) Benzo(a)anthracene	21.12	228	941350	25.78	ng	97
29) Chrysene	21.17	228	1049809	27.69	ng	96
31) Indeno(1,2,3-cd)pyrene	25.89	276	653809	17.99	ng	96
33) Benzo(b)fluoranthene	22.76	252	1318675	41.90	ng	97
34) Benzo(k)fluoranthene	22.80	252	528455m	15.03	ng	
35) Benzo(a)pyrene	23.36	252	940314	32.35	ng	98
36) Dibenzo(a,h)anthracene	25.89	278	167662	5.62	ng	98
37) Benzo(g,h,i)perylene	26.63	276	651181	21.53	ng	99

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

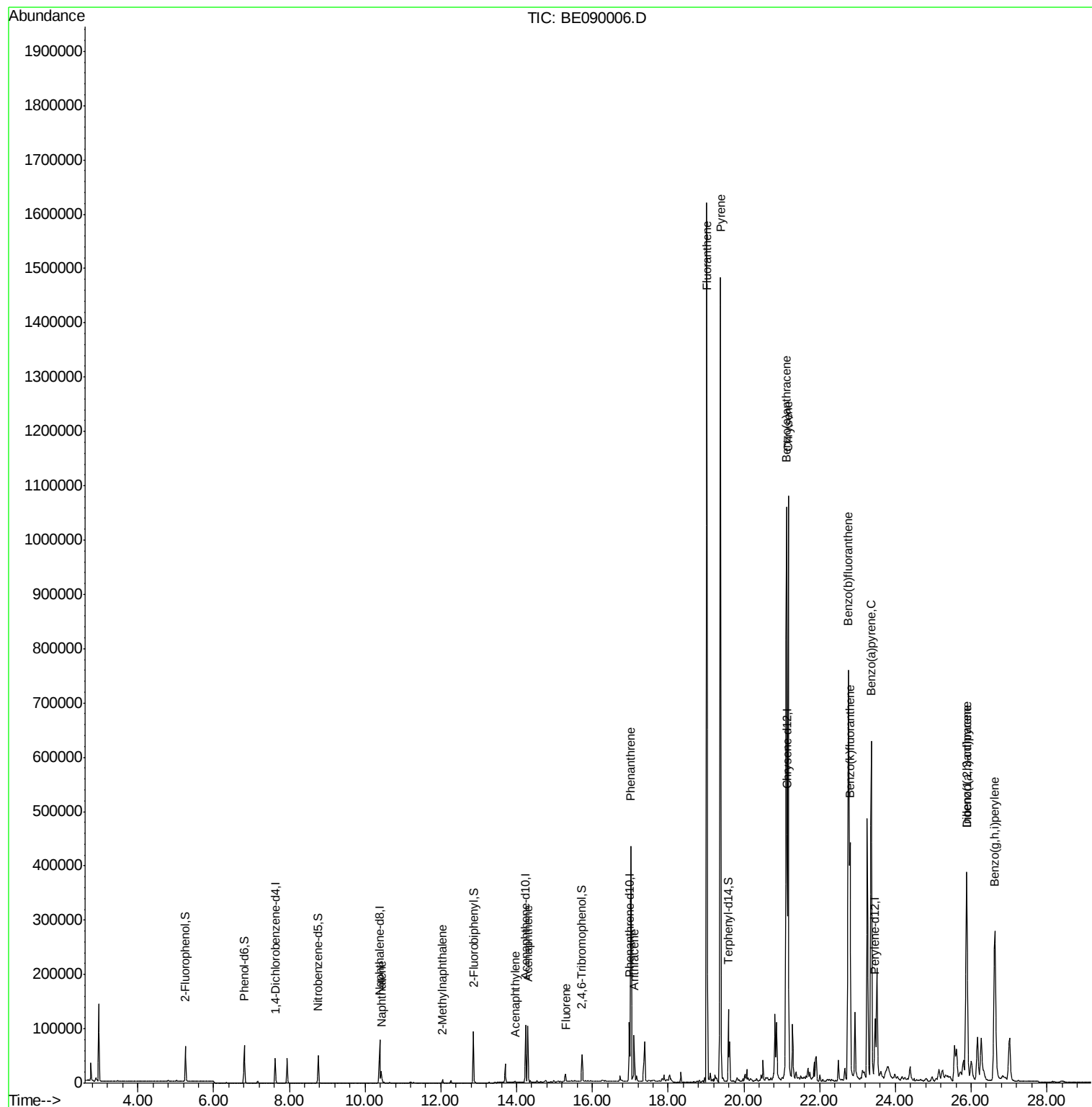
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE062915\
Data File : BE090006.D
Acq On : 30 Jun 2015 7:07
Operator : TP/IZ
Sample : G2810-26
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
X1SS0520006-150625

Manual Integrations
APPROVED

apatel
6/30/2015 4:55:18 PM

Quant Time: Jun 30 09:11:34 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-SIM-BE062915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 30 07:01:01 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.62 min Scan# 854

Delta R.T. -0.00 min

Lab File: BE090006.D

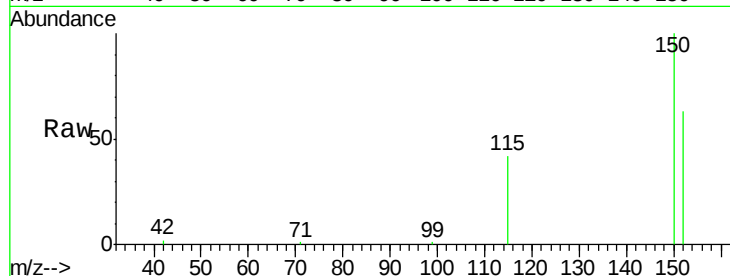
Acq: 30 Jun 2015 7:07

Instrument :

BNA_E

ClientSampleId :

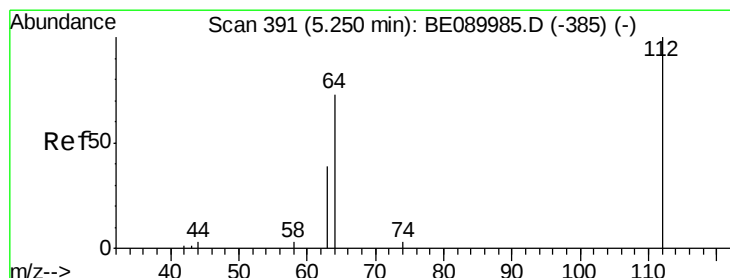
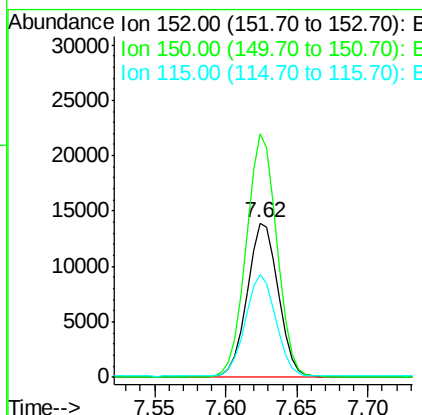
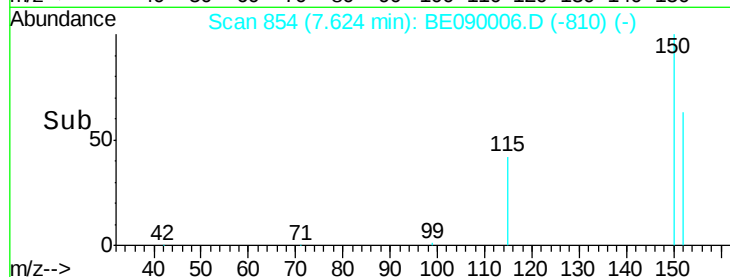
X1SS0520006-150625



Tgt Ion:	152	Resp:	21116
Ion Ratio	Lower	Upper	
152	100		
150	158.1	123.9	185.9
115	66.6	50.6	76.0

Manual Integrations
APPROVED

apatel
6/30/2015 4:55:18 PM



#4

2-Fluorophenol

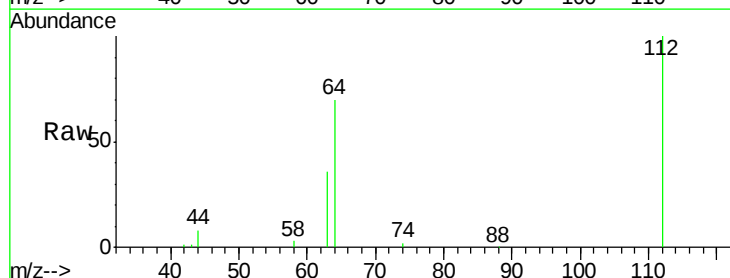
Concen: 8.95 ng

RT: 5.26 min Scan# 392

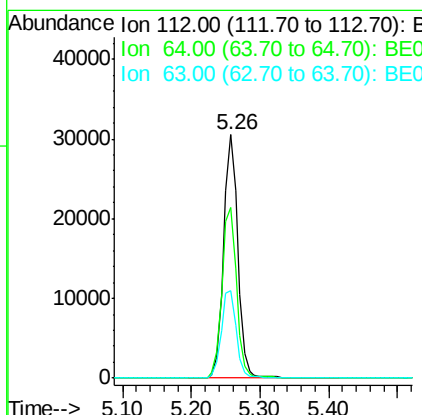
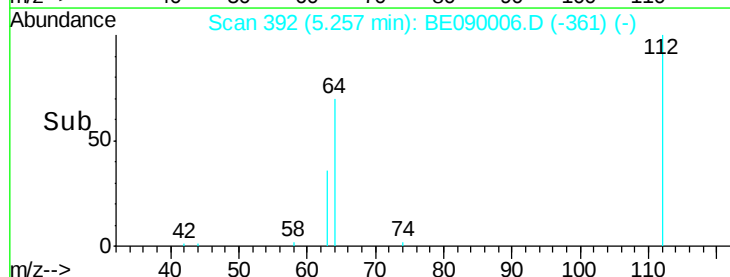
Delta R.T. 0.01 min

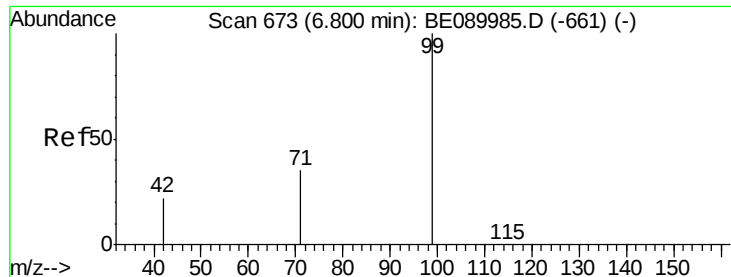
Lab File: BE090006.D

Acq: 30 Jun 2015 7:07



Tgt Ion:	112	Resp:	43410
Ion Ratio	Lower	Upper	
112	100		
64	72.2	56.3	84.5
63	37.4	29.8	44.6





#5

Phenol-d6

Concen: 10.13 ng

RT: 6.81 min Scan# 675

Delta R.T. 0.01 min

Lab File: BE090006.D

Acq: 30 Jun 2015 7:07

Instrument :

BNA_E

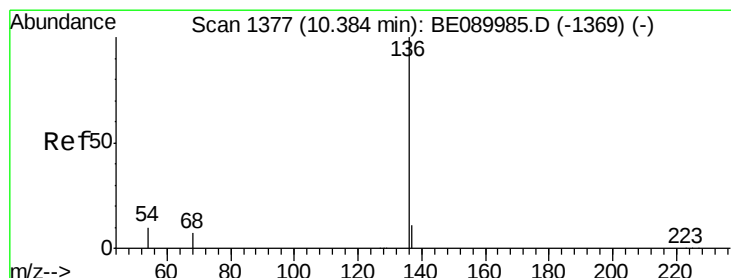
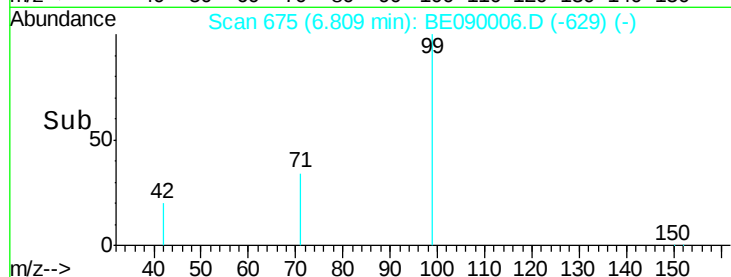
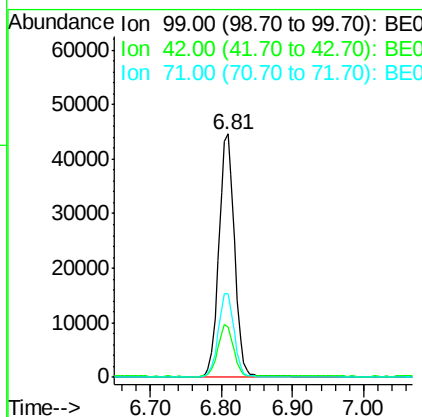
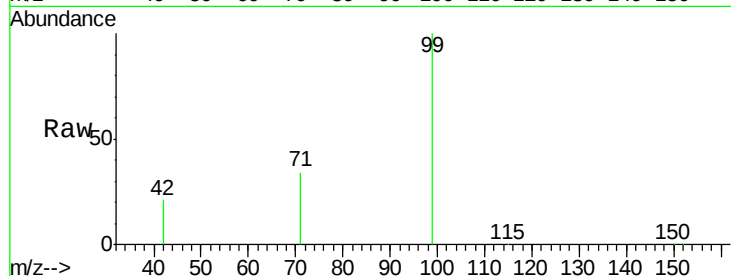
ClientSampleId :

X1SS0520006-150625

Tgt Ion:	99	Resp:	68739
Ion Ratio	Lower	Upper	
99	100		
42	21.0	18.7	28.1
71	34.6	27.5	41.3

Manual Integrations
APPROVED

apatel
6/30/2015 4:55:18 PM



#6

Naphthalene-d8

Concen: 5.00 ng

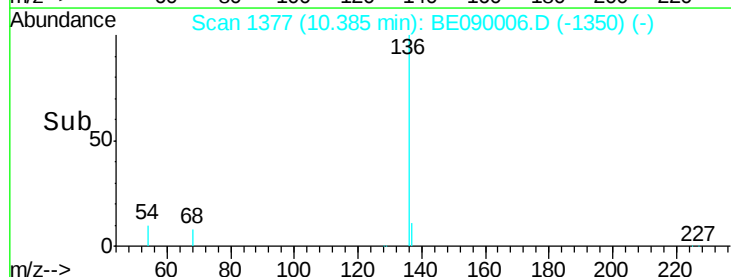
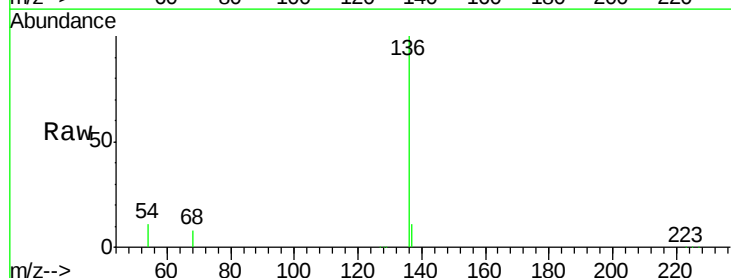
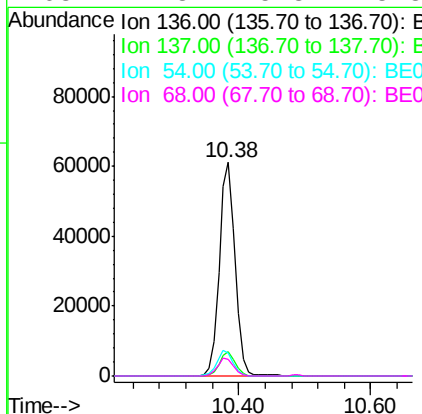
RT: 10.38 min Scan# 1377

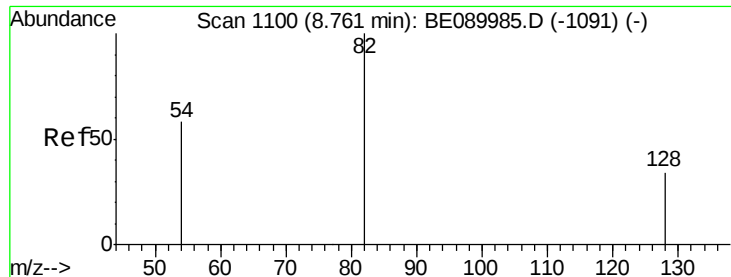
Delta R.T. 0.00 min

Lab File: BE090006.D

Acq: 30 Jun 2015 7:07

Tgt Ion:	136	Resp:	101783
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	10.6	8.2	12.4
68	7.8	5.8	8.8





#7

Nitrobenzene-d5

Concen: 5.10 ng

RT: 8.76 min Scan# 1100

Delta R.T. 0.00 min

Lab File: BE090006.D

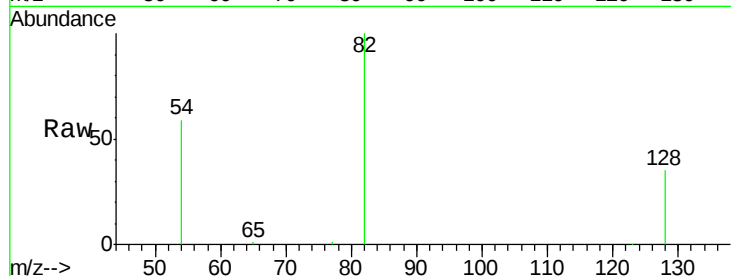
Acq: 30 Jun 2015 7:07

Instrument :

BNA_E

ClientSampleId :

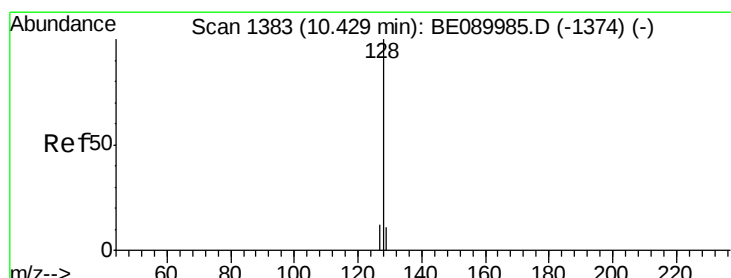
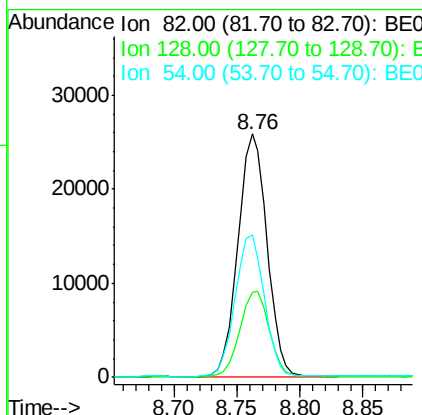
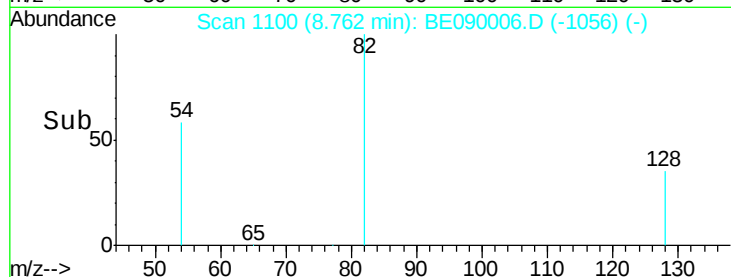
X1SS0520006-150625



Tgt Ion	82	Resp:	41240
Ion Ratio	100	Lower	Upper
128	35.1	28.0	42.0
54	58.5	47.6	71.4

Manual Integrations
APPROVED

apatel
6/30/2015 4:55:18 PM



#9

Naphthalene

Concen: 1.17 ng

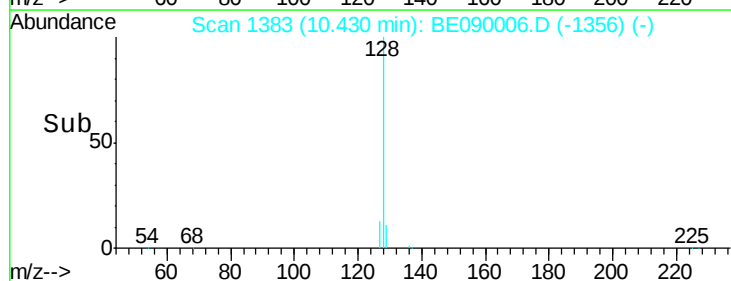
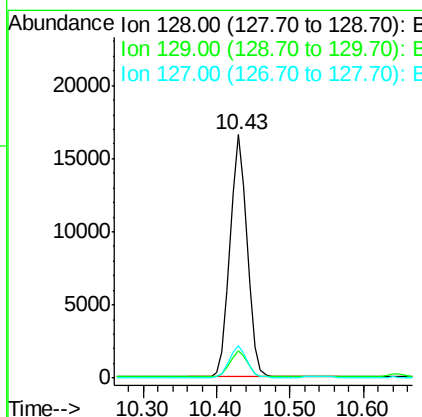
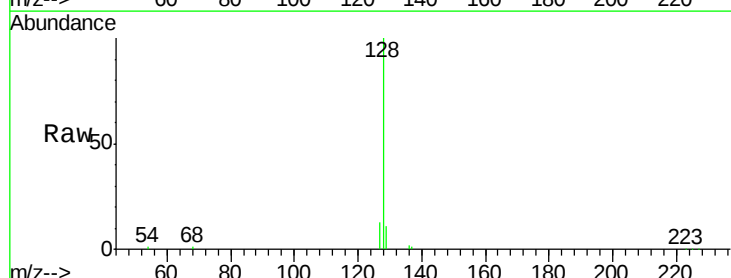
RT: 10.43 min Scan# 1383

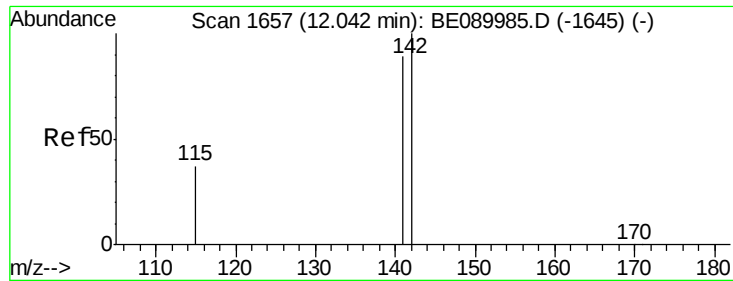
Delta R.T. 0.00 min

Lab File: BE090006.D

Acq: 30 Jun 2015 7:07

Tgt Ion	128	Resp:	26896
Ion Ratio	100	Lower	Upper
129	11.3	9.3	13.9
127	13.1	10.2	15.4





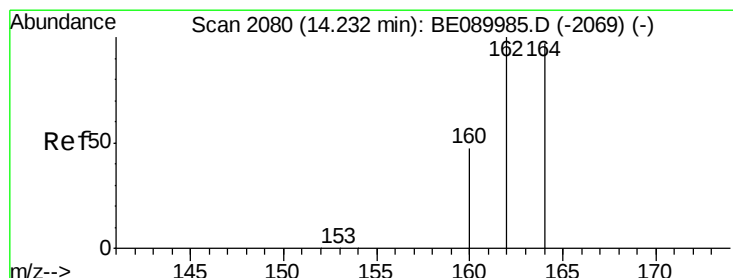
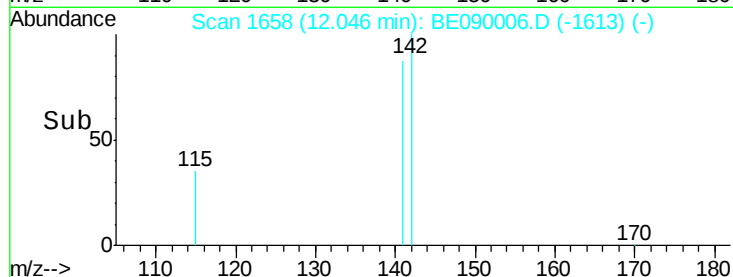
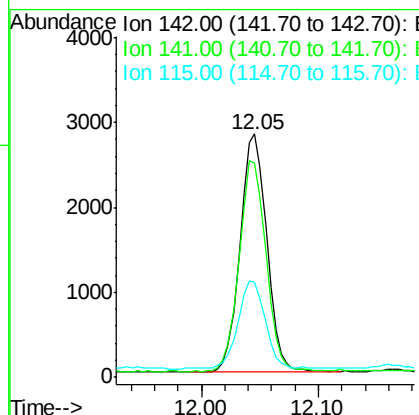
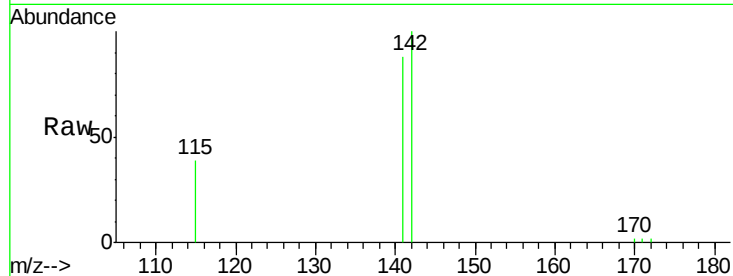
#11
2-Methylnaphthalene
Concen: 0.29 ng
RT: 12.05 min Scan# 1658
Delta R.T. 0.00 min
Lab File: BE090006.D
Acq: 30 Jun 2015 7:07

Instrument :
BNA_E
ClientSampleId :
X1SS0520006-150625

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.1	71.3	106.9
115	39.1	30.4	45.6

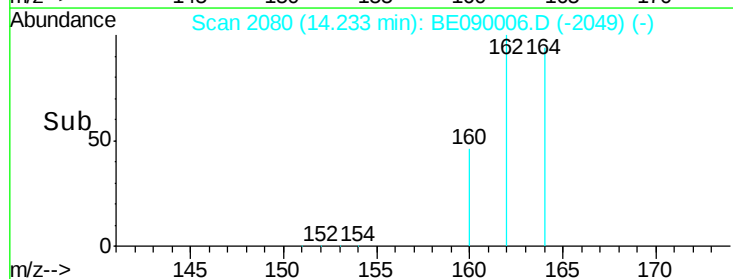
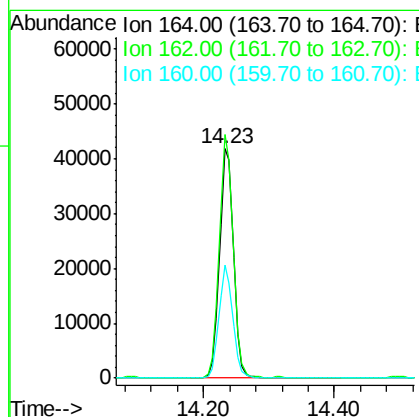
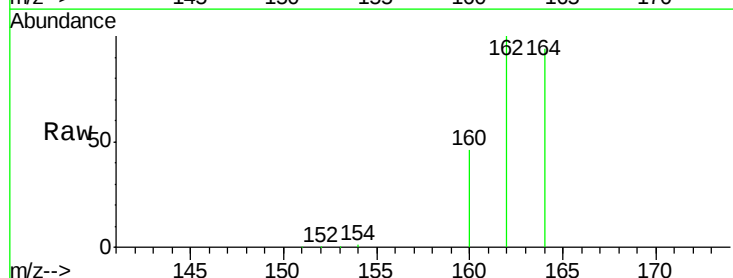
Manual Integrations
APPROVED

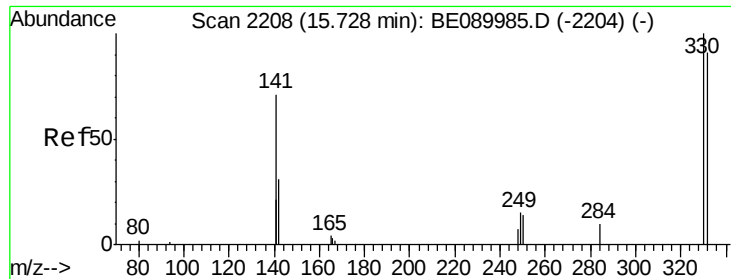
apatel
6/30/2015 4:55:18 PM



#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.23 min Scan# 2080
Delta R.T. 0.00 min
Lab File: BE090006.D
Acq: 30 Jun 2015 7:07

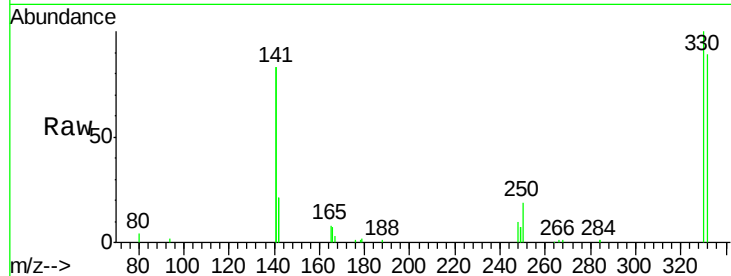
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.2	82.2	123.4
160	49.0	39.0	58.6





#13
 2,4,6-Tribromophenol
 Concen: 12.11 ng
 RT: 15.73 min Scan# 2207
 Delta R.T. -0.00 min
 Lab File: BE090006.D
 Acq: 30 Jun 2015 7:07

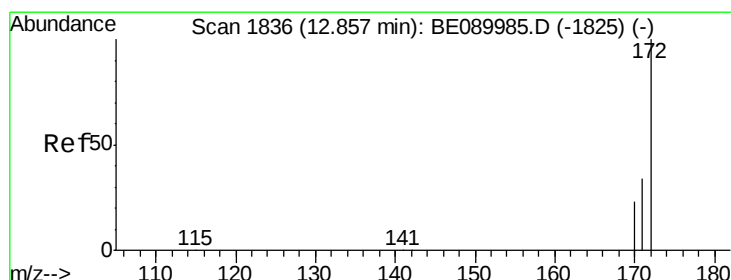
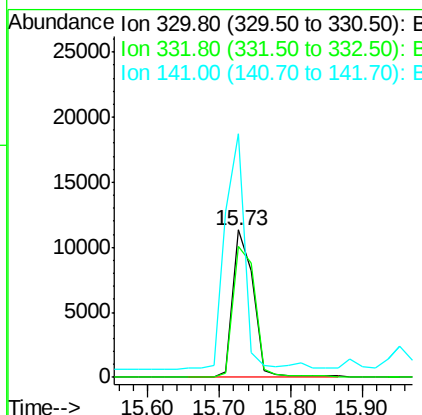
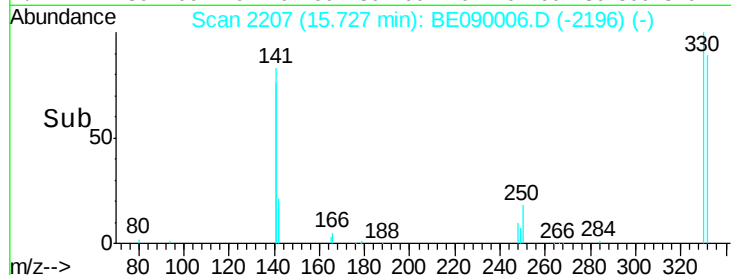
Instrument :
 BNA_E
 ClientSampleId :
 X1SS0520006-150625



Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.6	76.4	114.6
141	156.8	130.3	195.5

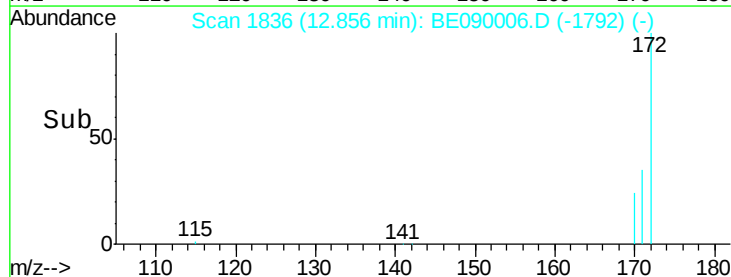
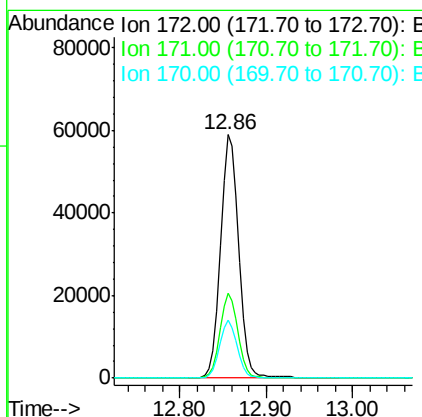
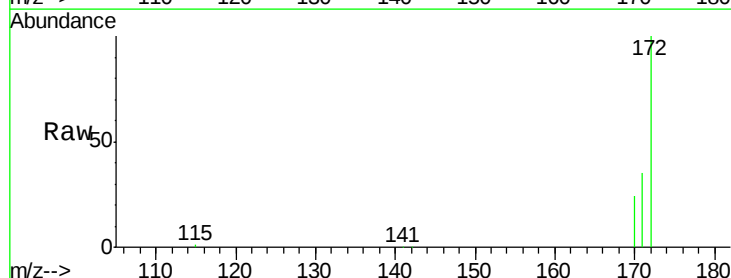
Manual Integrations
 APPROVED

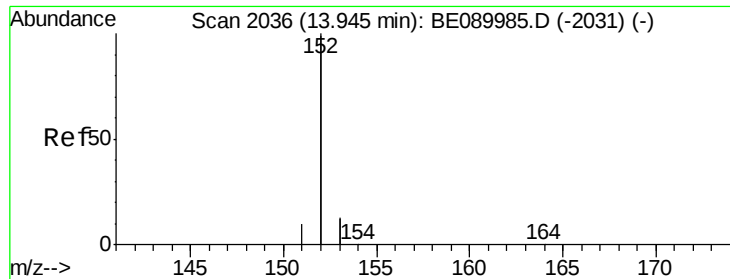
apatel
 6/30/2015 4:55:18 PM



#14
 2-Fluorobiphenyl
 Concen: 4.76 ng
 RT: 12.86 min Scan# 1836
 Delta R.T. -0.00 min
 Lab File: BE090006.D
 Acq: 30 Jun 2015 7:07

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.0	27.8	41.6
170	24.0	18.3	27.5





#15

Acenaphthylene

Concen: 0.03 ng

RT: 13.95 min Scan# 2037

Delta R.T. 0.01 min

Lab File: BE090006.D

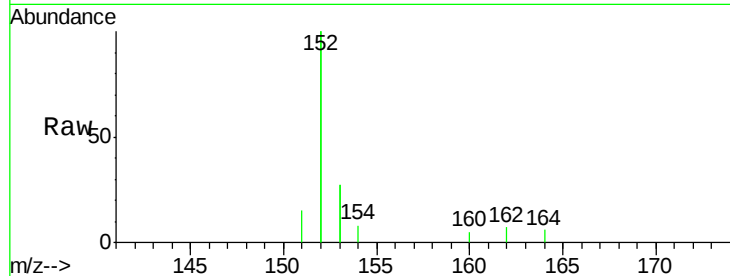
Acq: 30 Jun 2015 7:07

Instrument :

BNA_E

ClientSampleId :

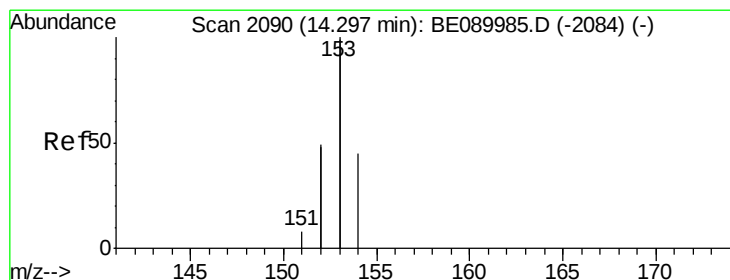
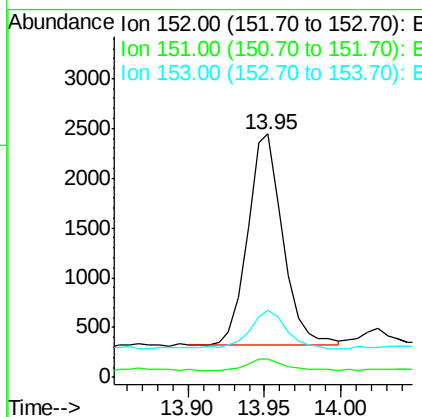
X1SS0520006-150625



Tgt Ion	Ratio	Lower	Upper
152	100		
151	5.4	3.9	5.9
153	20.5	10.4	15.6

Manual Integrations
APPROVED

apatel
6/30/2015 4:55:18 PM



#16

Acenaphthene

Concen: 1.21 ng

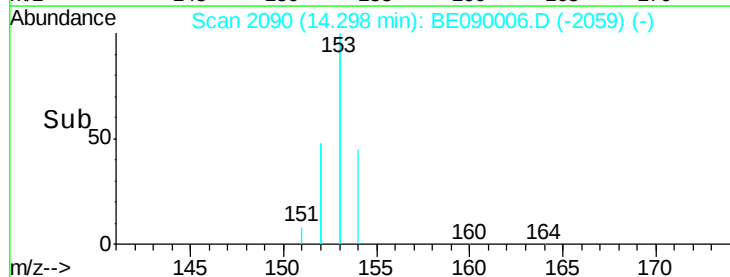
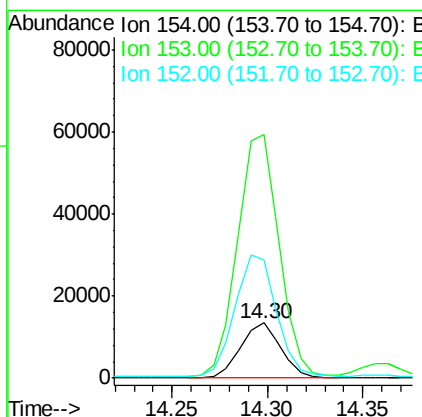
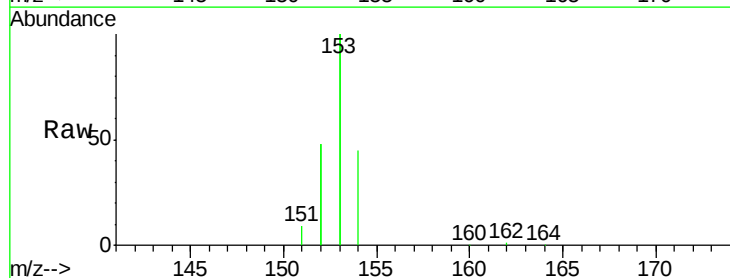
RT: 14.30 min Scan# 2090

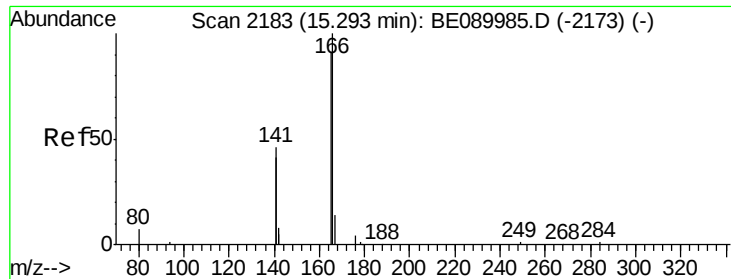
Delta R.T. 0.00 min

Lab File: BE090006.D

Acq: 30 Jun 2015 7:07

Tgt Ion	Ratio	Lower	Upper
154	100		
153	460.4	358.6	538.0
152	231.2	189.6	284.4





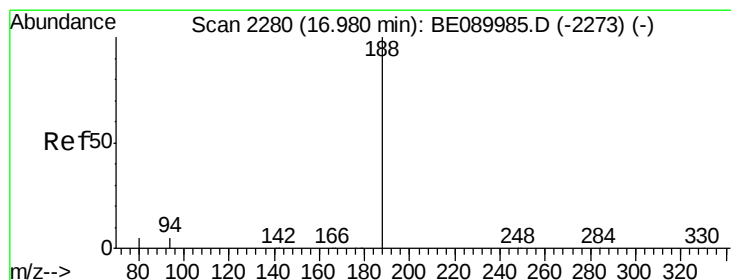
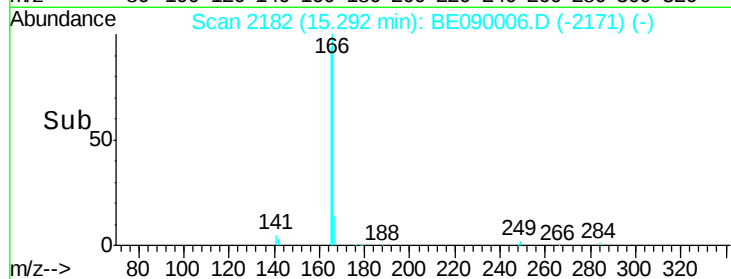
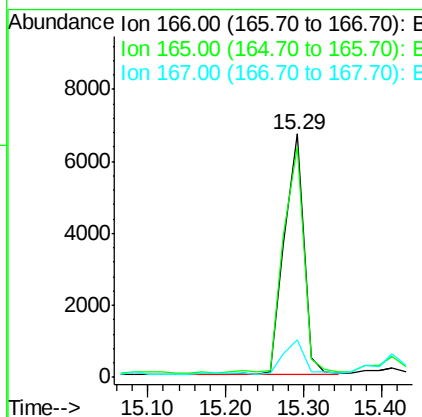
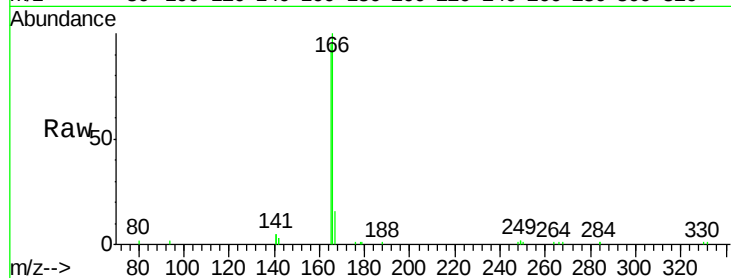
#17
Fluorene
 Concen: 0.53 ng
 RT: 15.29 min Scan# 2182
 Delta R.T. -0.00 min
 Lab File: BE090006.D
 Acq: 30 Jun 2015 7:07

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0520006-150625

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.3	79.0	118.6
167	17.1	11.8	17.8

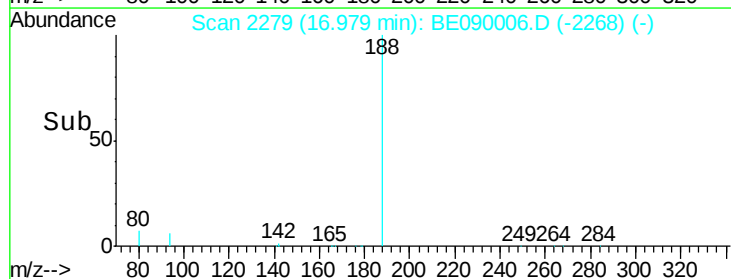
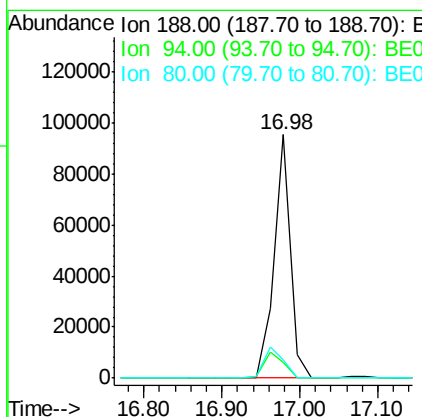
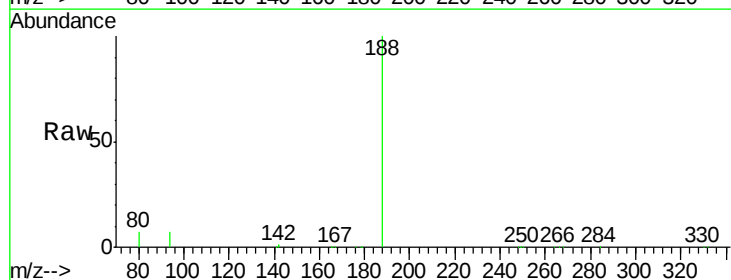
Manual Integrations
 APPROVED

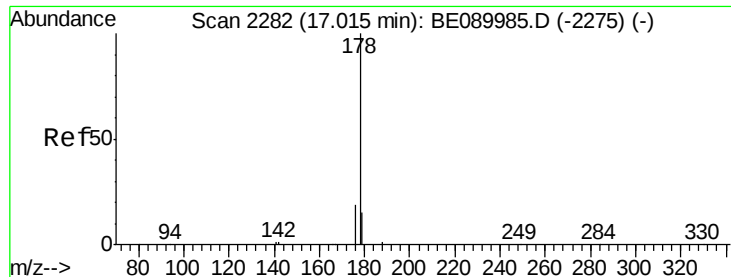
apatel
 6/30/2015 4:55:18 PM



#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 16.98 min Scan# 2279
 Delta R.T. -0.00 min
 Lab File: BE090006.D
 Acq: 30 Jun 2015 7:07

Tgt Ion	Ratio	Lower	Upper
188	100		
94	6.7	4.1	6.1#
80	7.3	4.2	6.2#





#22

Phenanthrene

Concen: 13.35 ng

RT: 17.01 min Scan# 2281

Delta R.T. -0.00 min

Lab File: BE090006.D

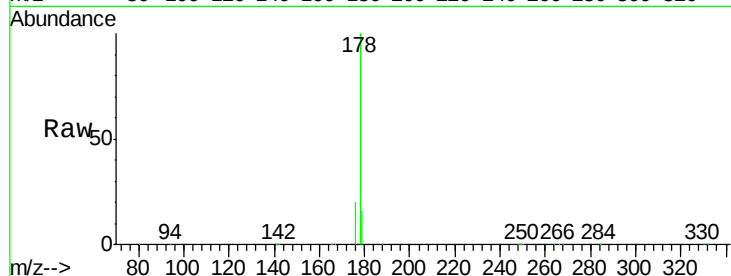
Acq: 30 Jun 2015 7:07

Instrument :

BNA_E

ClientSampleId :

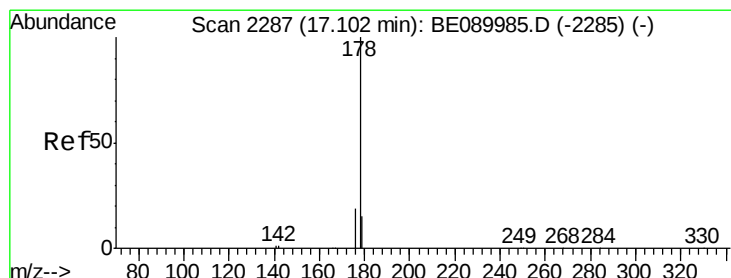
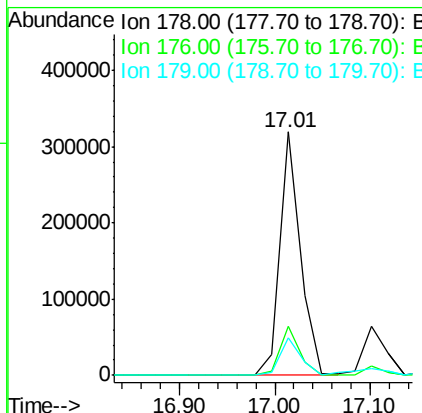
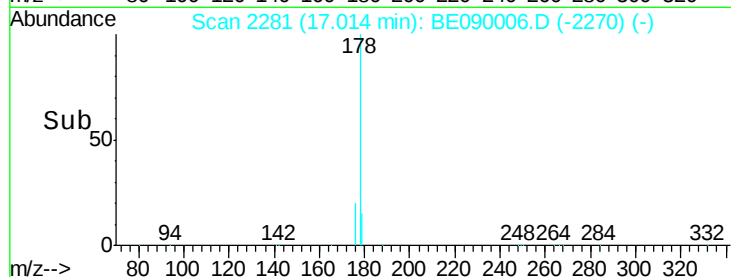
X1SS0520006-150625



Tgt Ion:	178	Resp:	474066
Ion Ratio	Lower	Upper	
178	100		
176	19.5	15.3	22.9
179	16.4	12.4	18.6

Manual Integrations
APPROVED

apatel
6/30/2015 4:55:18 PM



#23

Anthracene

Concen: 3.15 ng m

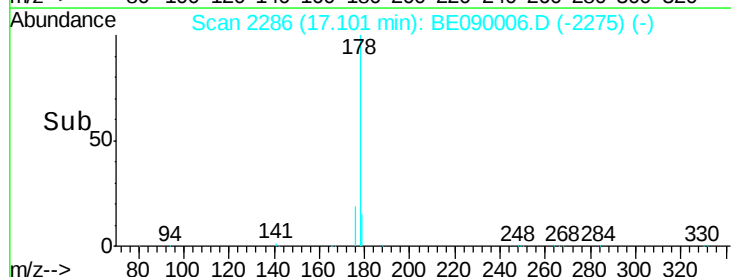
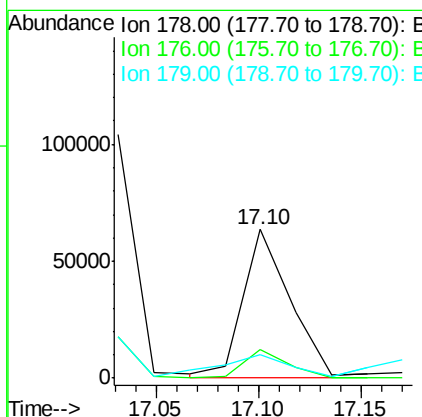
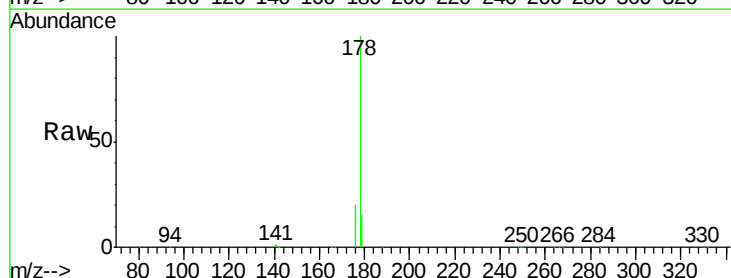
RT: 17.10 min Scan# 2286

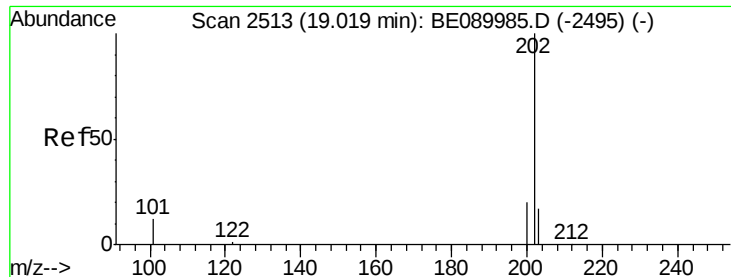
Delta R.T. -0.00 min

Lab File: BE090006.D

Acq: 30 Jun 2015 7:07

Tgt Ion:	178	Resp:	102365
Ion Ratio	Lower	Upper	
178	100		
176	90.2	14.7	22.1#
179	76.0	12.1	18.1#





#24

Fluoranthene

Concen: 36.69 ng

RT: 19.02 min Scan# 2513

Delta R.T. 0.01 min

Lab File: BE090006.D

Acq: 30 Jun 2015 7:07

Instrument :

BNA_E

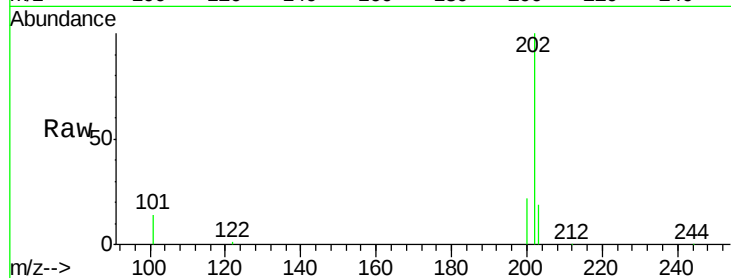
ClientSampleId :

X1SS0520006-150625

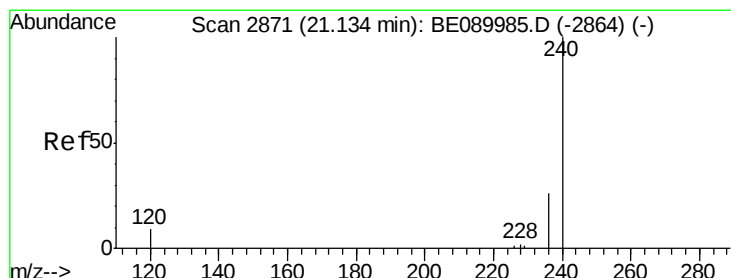
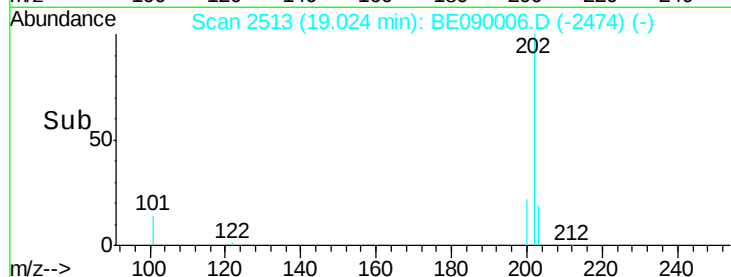
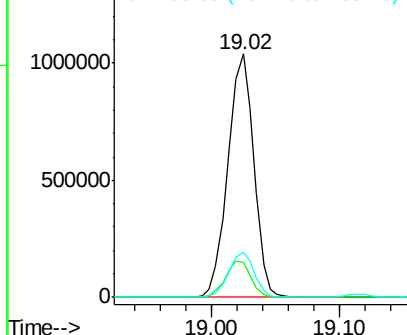
Tgt Ion:	202	Resp:	1454805
Ion Ratio	Lower	Upper	
202	100		
101	14.7	10.6	15.8
203	18.2	13.8	20.6

Manual Integrations
APPROVED

apatel
6/30/2015 4:55:18 PM



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



#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.14 min Scan# 2870

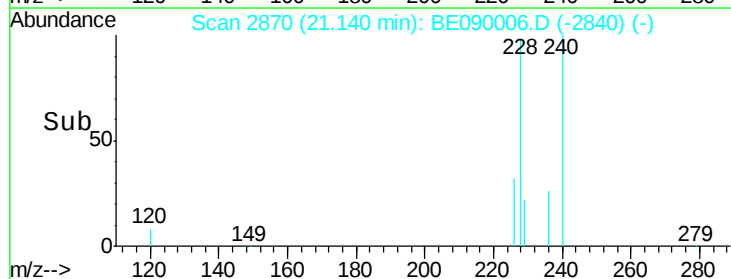
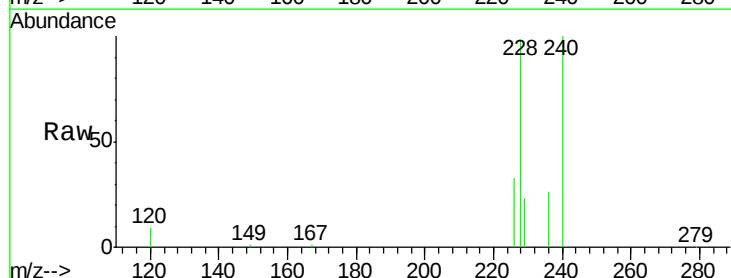
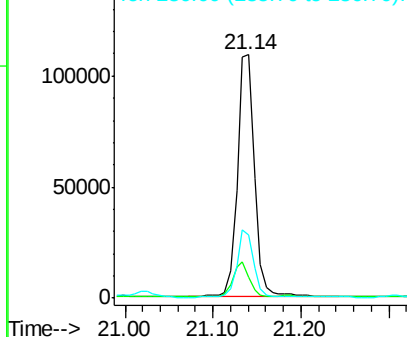
Delta R.T. 0.01 min

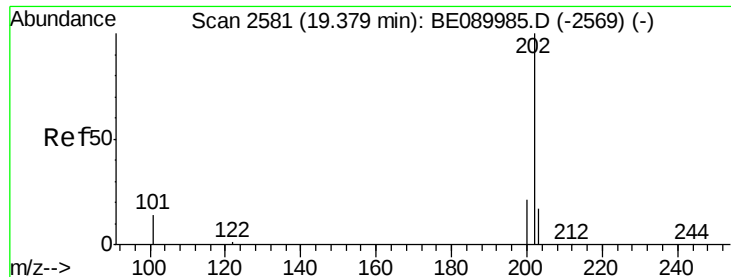
Lab File: BE090006.D

Acq: 30 Jun 2015 7:07

Tgt Ion:	240	Resp:	146193
Ion Ratio	Lower	Upper	
240	100		
120	8.8	6.9	10.3
236	26.2	20.8	31.2

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





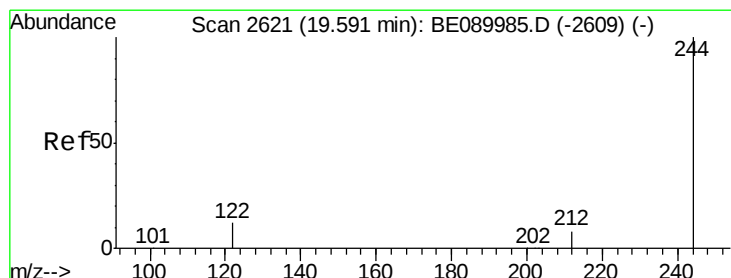
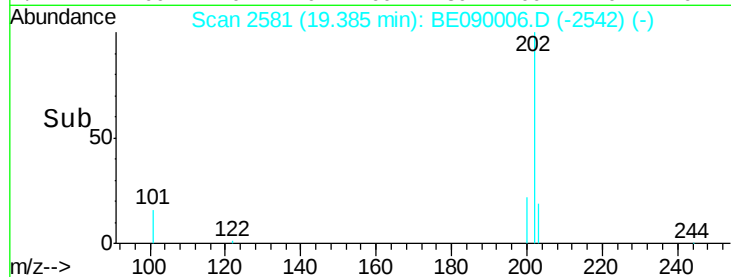
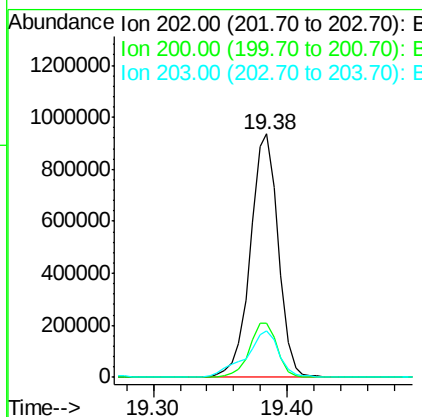
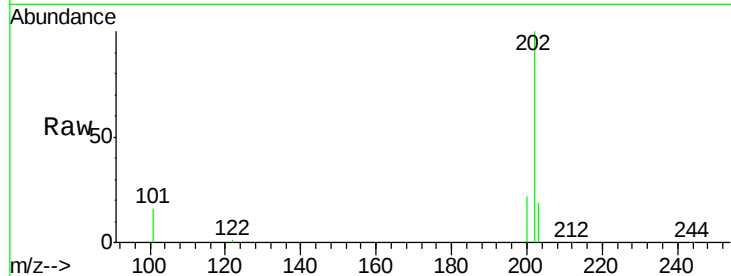
#26
 Pyrene
 Concen: 38.88 ng
 RT: 19.38 min Scan# 2581
 Delta R.T. 0.01 min
 Lab File: BE090006.D
 Acq: 30 Jun 2015 7:07

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0520006-150625

Tgt Ion: 202 Resp: 1354634
 Ion Ratio Lower Upper
 202 100
 200 22.4 16.8 25.2
 203 22.7 13.9 20.9#

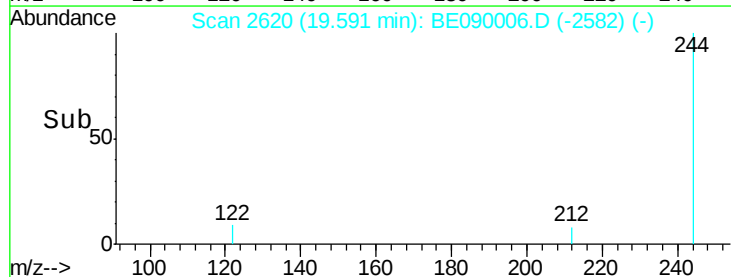
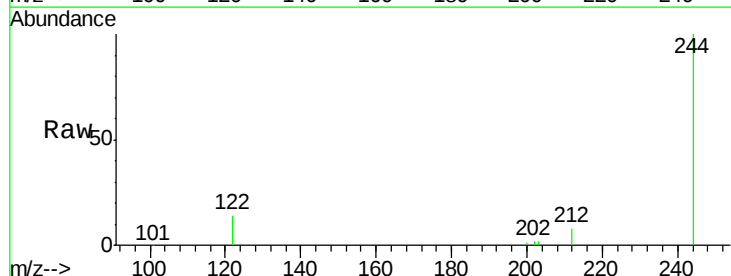
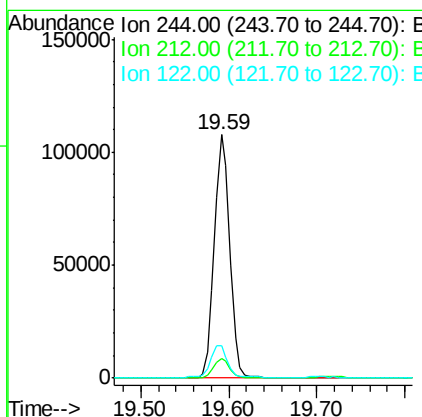
Manual Integrations
 APPROVED

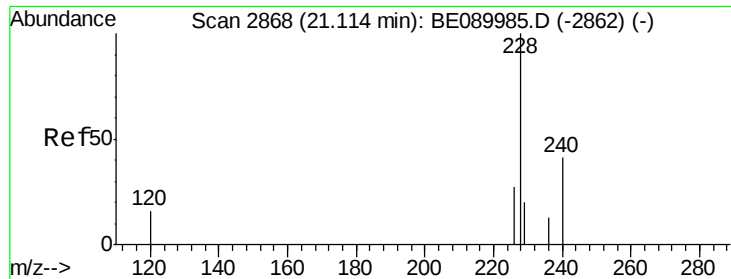
apatel
 6/30/2015 4:55:18 PM



#27
 Terphenyl-d14
 Concen: 5.38 ng
 RT: 19.59 min Scan# 2620
 Delta R.T. 0.00 min
 Lab File: BE090006.D
 Acq: 30 Jun 2015 7:07

Tgt Ion: 244 Resp: 131145
 Ion Ratio Lower Upper
 244 100
 212 8.3 6.6 9.8
 122 13.6 9.8 14.8





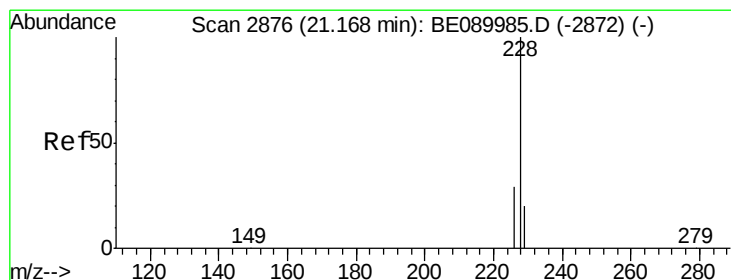
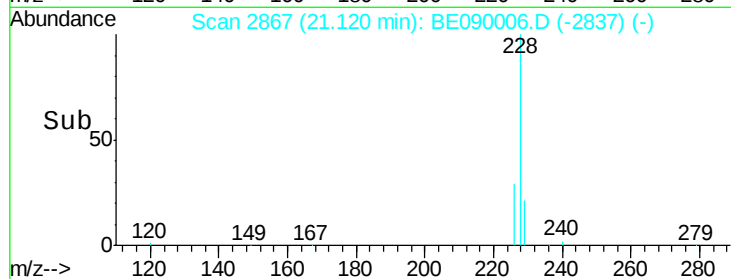
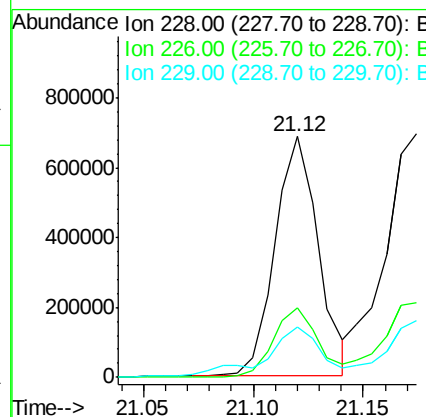
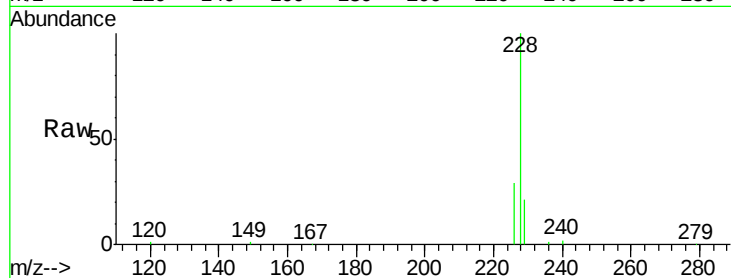
#28
Benzo(a)anthracene
Concen: 25.78 ng
RT: 21.12 min Scan# 2867
Delta R.T. 0.01 min
Lab File: BE090006.D
Acq: 30 Jun 2015 7:07

Instrument :
BNA_E
ClientSampleId :
X1SS0520006-150625

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.0	21.8	32.6
229	21.1	15.8	23.6

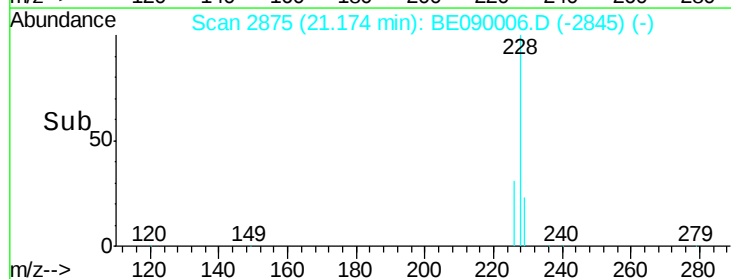
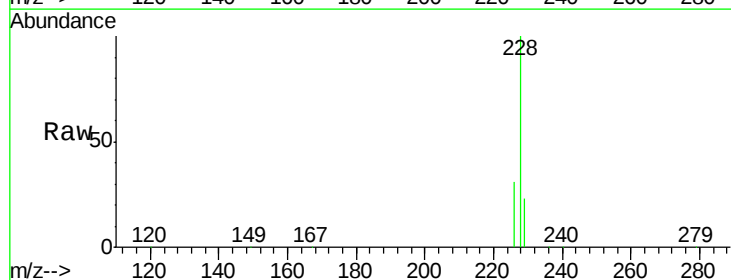
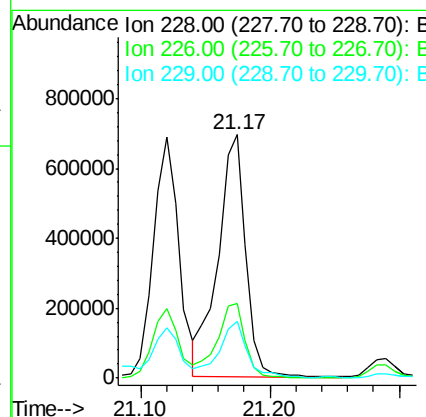
Manual Integrations
APPROVED

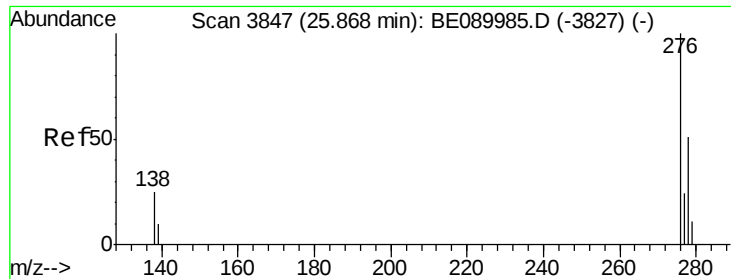
apatel
6/30/2015 4:55:18 PM



#29
Chrysene
Concen: 27.69 ng
RT: 21.17 min Scan# 2875
Delta R.T. 0.01 min
Lab File: BE090006.D
Acq: 30 Jun 2015 7:07

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	23.4	35.0
229	23.1	16.2	24.2





#31

Indeno(1,2,3-cd)pyrene

Concen: 17.99 ng

RT: 25.89 min Scan# 3850

Delta R.T. 0.02 min

Lab File: BE090006.D

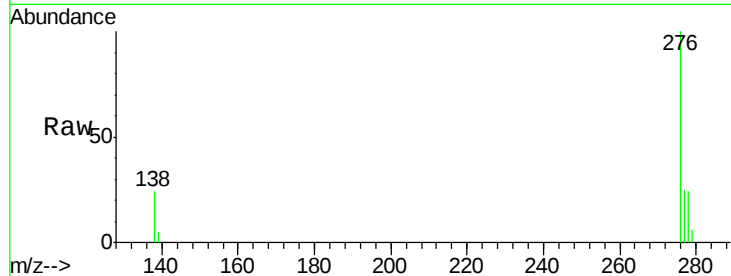
Acq: 30 Jun 2015 7:07

Instrument :

BNA_E

ClientSampleId :

X1SS0520006-150625



Tgt Ion: 276 Resp: 653809

Ion Ratio Lower Upper

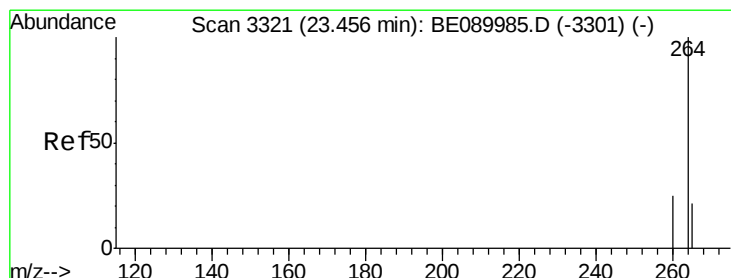
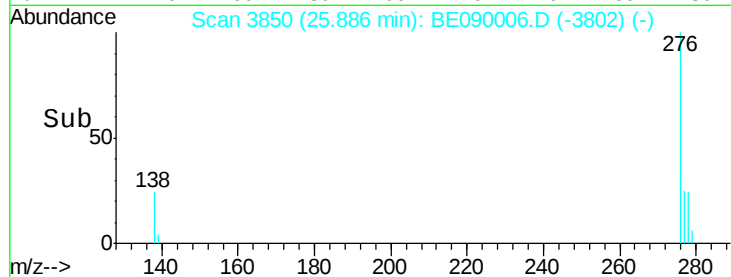
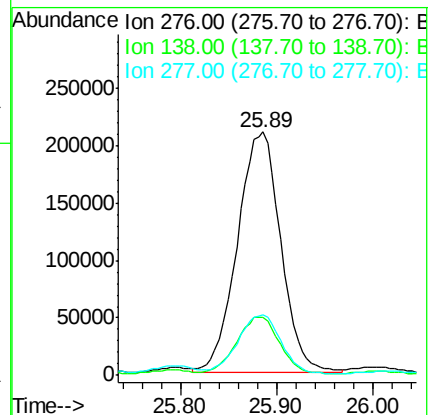
276 100

138 23.5 21.3 31.9

277 24.1 19.7 29.5

Manual Integrations
APPROVED

apatel
6/30/2015 4:55:18 PM



#32

Perylene-d12

Concen: 5.00 ng

RT: 23.46 min Scan# 3321

Delta R.T. 0.01 min

Lab File: BE090006.D

Acq: 30 Jun 2015 7:07

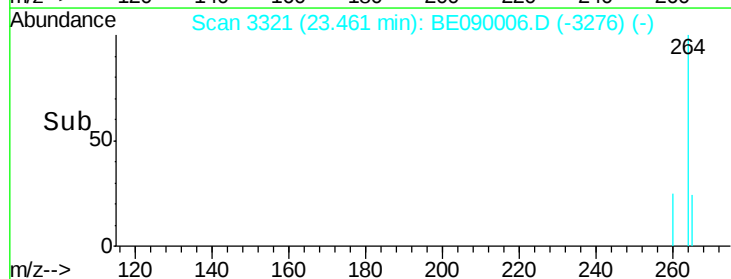
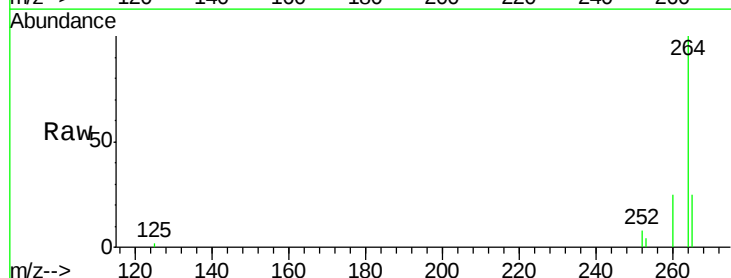
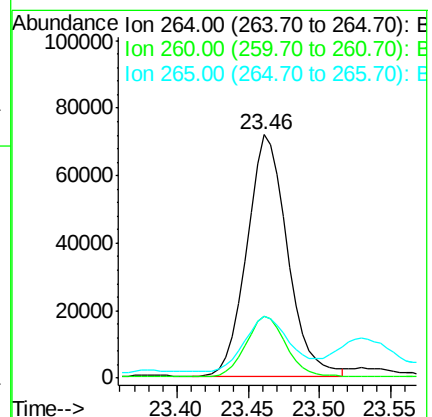
Tgt Ion: 264 Resp: 142674

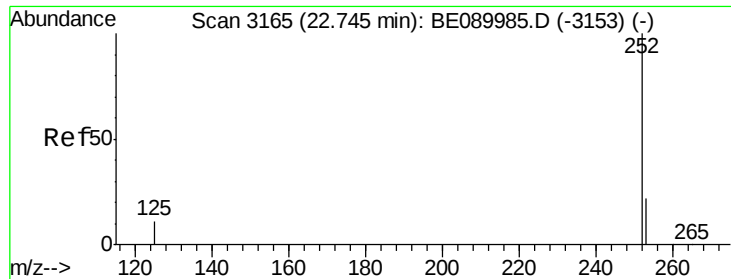
Ion Ratio Lower Upper

264 100

260 25.2 20.2 30.2

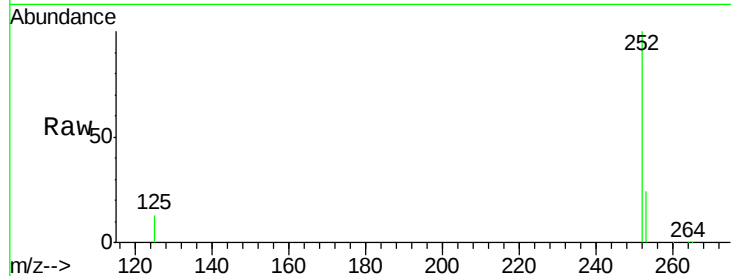
265 25.4 17.1 25.7





#33
Benzo(b)fluoranthene
Concen: 41.90 ng
RT: 22.76 min Scan# 3167
Delta R.T. 0.01 min
Lab File: BE090006.D
Acq: 30 Jun 2015 7:07

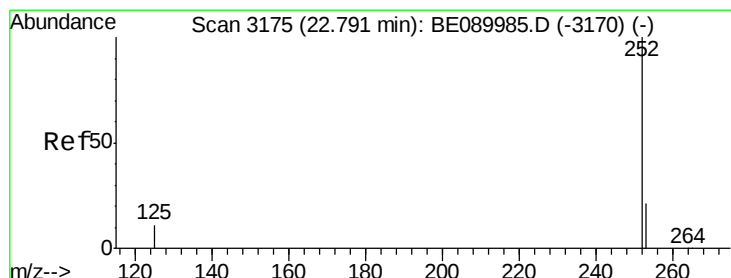
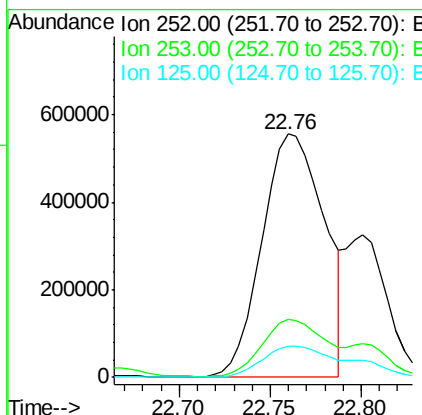
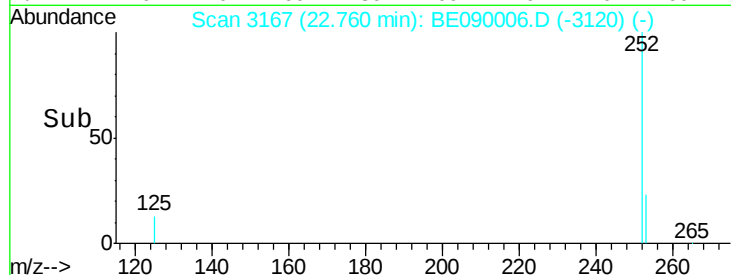
Instrument :
BNA_E
ClientSampleId :
X1SS0520006-150625



Tgt Ion: 252 Resp: 1318675
Ion Ratio Lower Upper
252 100
253 23.7 17.8 26.8
125 12.7 9.0 13.4

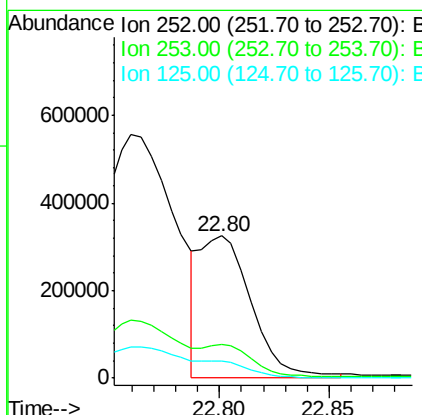
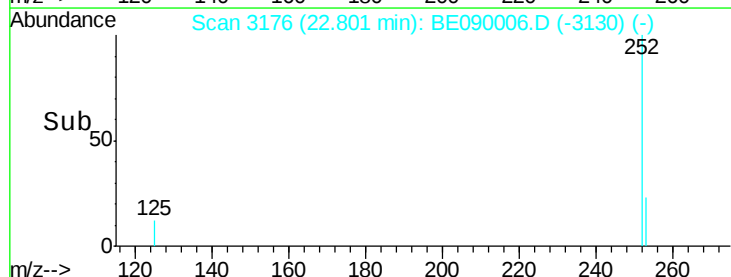
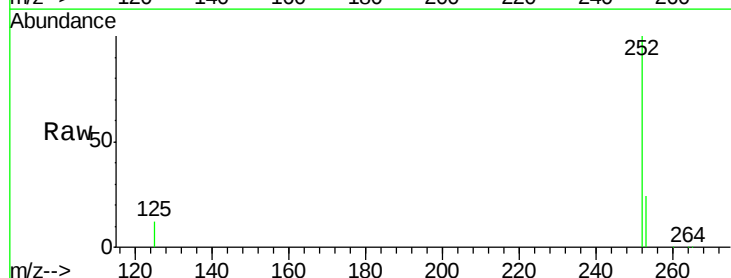
Manual Integrations
APPROVED

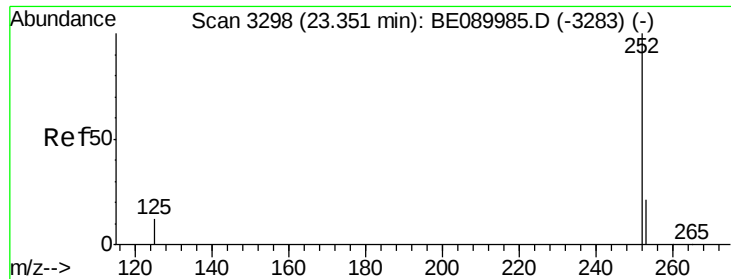
apatel
6/30/2015 4:55:18 PM



#34
Benzo(k)fluoranthene
Concen: 15.03 ng m
RT: 22.80 min Scan# 3176
Delta R.T. 0.01 min
Lab File: BE090006.D
Acq: 30 Jun 2015 7:07

Tgt Ion: 252 Resp: 528455
Ion Ratio Lower Upper
252 100
253 23.8 17.5 26.3
125 12.0 9.5 14.3





#35

Benzo(a)pyrene

Concen: 32.35 ng

RT: 23.36 min Scan# 3299

Delta R.T. 0.01 min

Lab File: BE090006.D

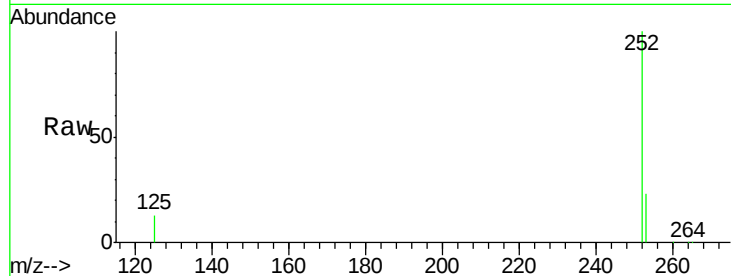
Acq: 30 Jun 2015 7:07

Instrument :

BNA_E

ClientSampleId :

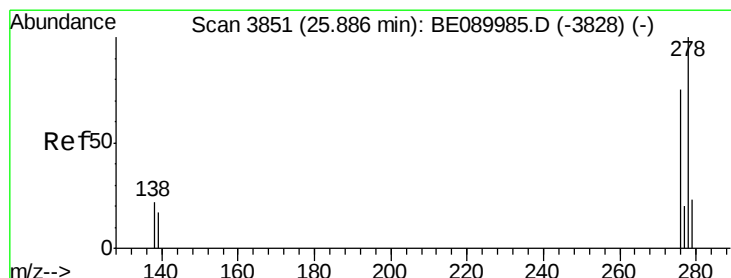
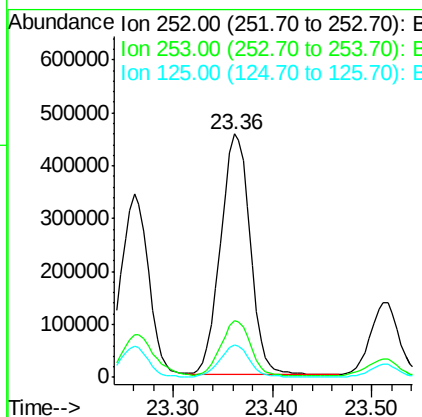
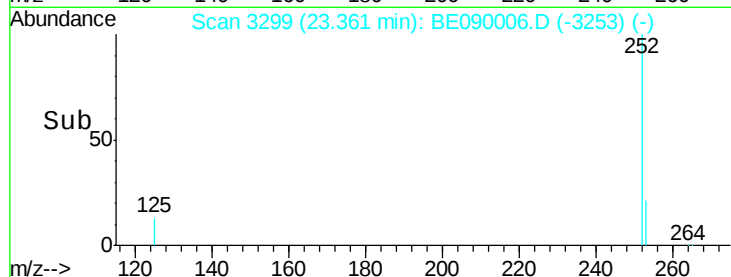
X1SS0520006-150625



Tgt Ion:	252	Resp:	940314
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.4	26.2
125	13.2	10.5	15.7

Manual Integrations
APPROVED

apatel
6/30/2015 4:55:18 PM



#36

Dibenzo(a,h)anthracene

Concen: 5.62 ng

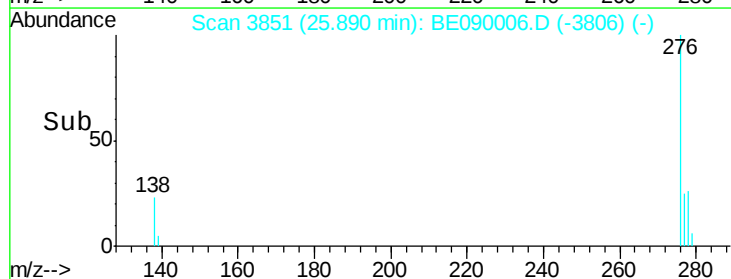
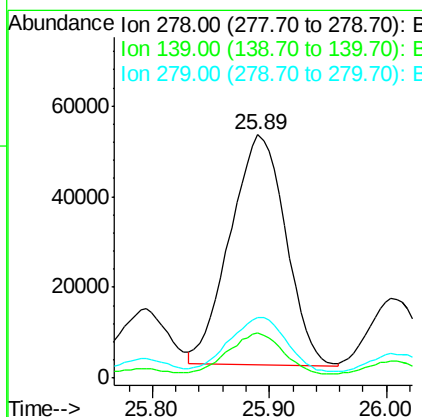
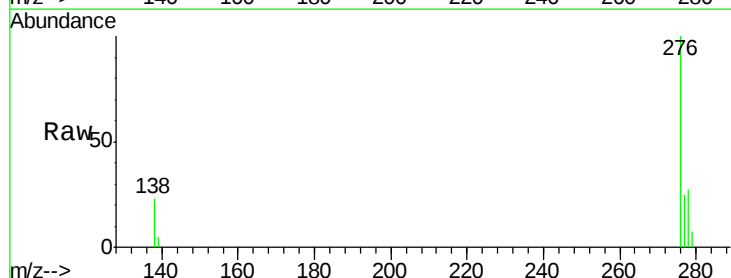
RT: 25.89 min Scan# 3851

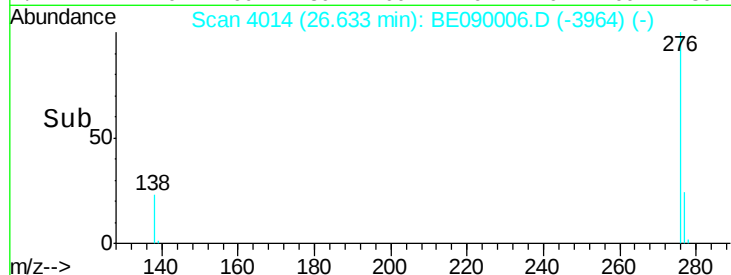
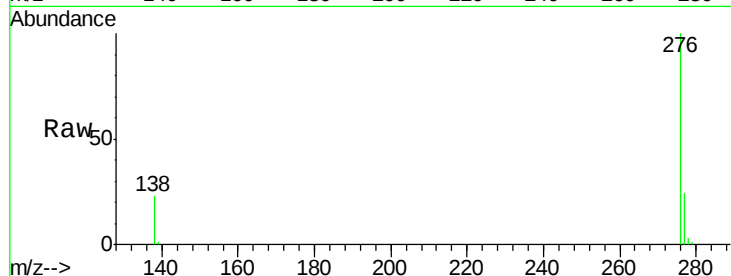
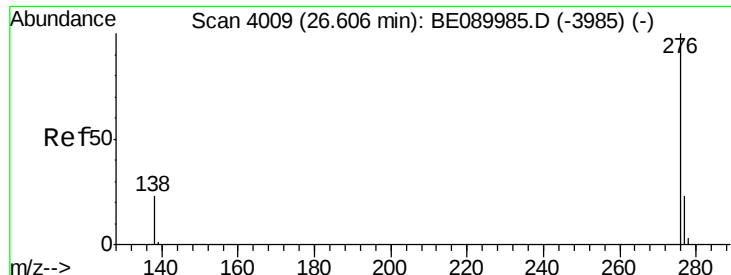
Delta R.T. 0.00 min

Lab File: BE090006.D

Acq: 30 Jun 2015 7:07

Tgt Ion:	278	Resp:	167662
Ion Ratio	Lower	Upper	
278	100		
139	18.6	14.4	21.6
279	25.1	19.0	28.6





#37
 Benzo(g,h,i)perylene
 Concen: 21.53 ng
 RT: 26.63 min Scan# 4014
 Delta R.T. 0.03 min
 Lab File: BE090006.D
 Acq: 30 Jun 2015 7:07

Tgt	Ion	276	Resp:	651181
Ion	Ratio	Lower	Upper	
276	100			
277	24.3	18.8	28.2	
138	23.3	18.6	27.8	

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0520006-150625

Manual Integrations
 APPROVED

apatel
 6/30/2015 4:55:18 PM

