

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE062915\
 Data File : BE090010.D
 Acq On : 30 Jun 2015 9:30
 Operator : TP/IZ
 Sample : G2782-02DL 4X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 X3SS0240006-150624DL

Manual Integrations
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Quant Time: Jun 30 16:32:51 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	7.63	152	19947	5.00	ng	0.00
6) Naphthalene-d8	10.38	136	98502	5.00	ng	0.00
12) Acenaphthene-d10	14.24	164	62441	5.00	ng	0.00
18) Phenanthrene-d10	16.98	188	146311	5.00	ng	0.00
25) Chrysene-d12	21.14	240	162025	5.00	ng	0.00
32) Perylene-d12	23.46	264	166479	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.26	112	14023	3.06	ng	0.00
5) Phenol-d6	6.81	99	22758	3.55	ng	0.00
7) Nitrobenzene-d5	8.76	82	14778	1.89	ng	0.00
13) 2,4,6-Tribromophenol	15.74	330	7451	4.07	ng	0.02
14) 2-Fluorobiphenyl	12.86	172	33554	1.79	ng	0.00
27) Terphenyl-d14	19.59	244	51508	1.91	ng	0.00
Target Compounds						
9) Naphthalene	10.43	128	1470	0.07	ng	# 88
11) 2-Methylnaphthalene	12.05	142	310	0.02	ng	# 83
16) Acenaphthene	14.30	154	1242	0.08	ng	93
17) Fluorene	15.29	166	662	0.03	ng	# 81
22) Phenanthrene	17.01	178	41662	1.11	ng	99
23) Anthracene	17.10	178	8213m	0.24	ng	
24) Fluoranthene	19.02	202	165937	3.96	ng	99
26) Pyrene	19.38	202	157930	4.09	ng	# 96
28) Benzo(a)anthracene	21.12	228	120475	2.98	ng	100
29) Chrysene	21.17	228	132056	3.14	ng	97
30) Bis(2-ethylhexyl)phthalate	21.06	149	7617	0.69	ng	99
31) Indeno(1,2,3-cd)pyrene	25.87	276	85465	2.12	ng	96
33) Benzo(b)fluoranthene	22.75	252	179632	4.89	ng	98
34) Benzo(k)fluoranthene	22.79	252	60581m	1.48	ng	
35) Benzo(a)pyrene	23.35	252	120345	3.55	ng	98
36) Dibenzo(a,h)anthracene	25.88	278	21883	0.63	ng	95
37) Benzo(g,h,i)perylene	26.61	276	85985	2.44	ng	99

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

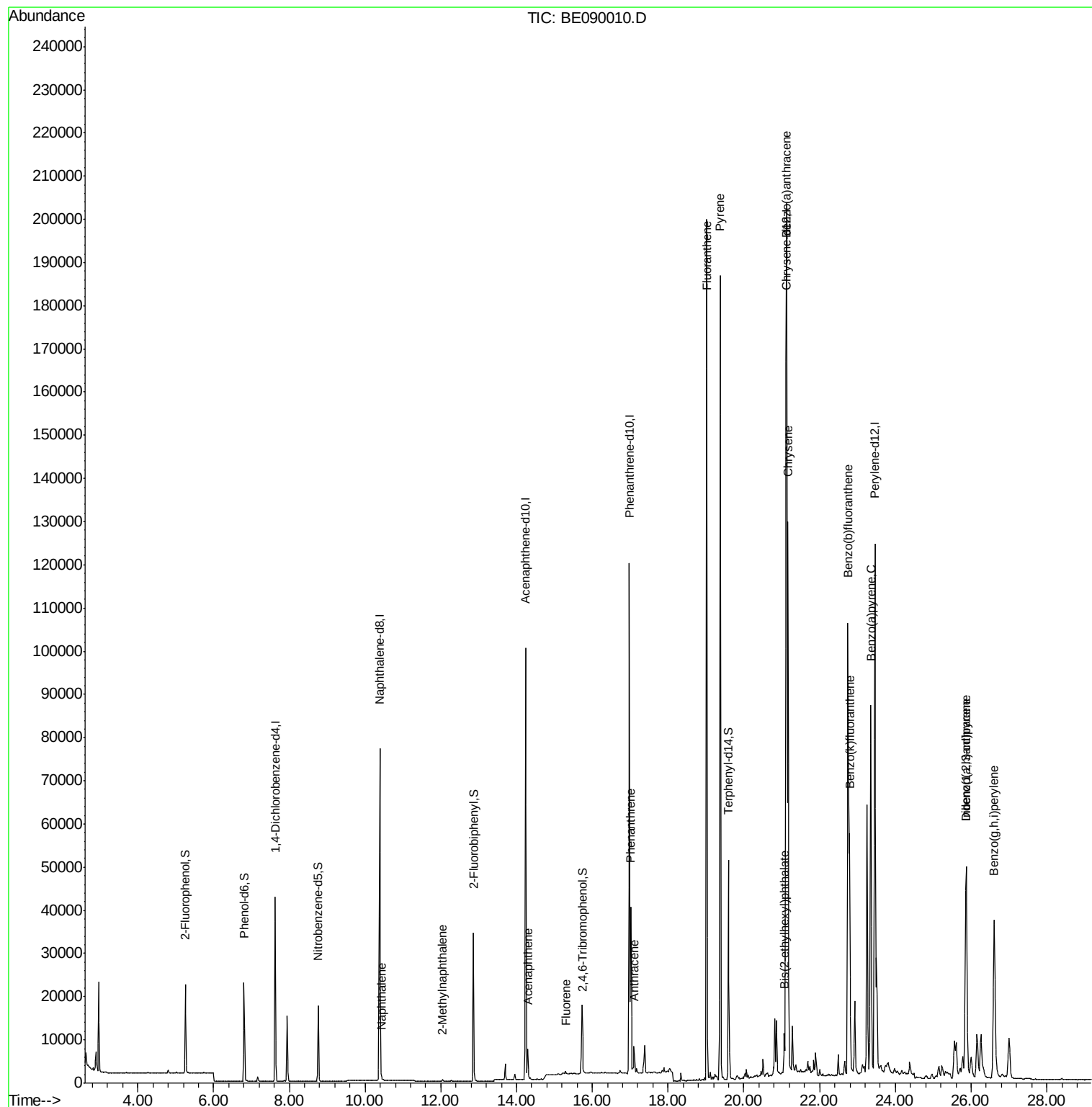
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE062915\
Data File : BE090010.D
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Sample : G2782-02DL 4X
Misc :
ALS Vial : 28 Sample Multiplier: 1

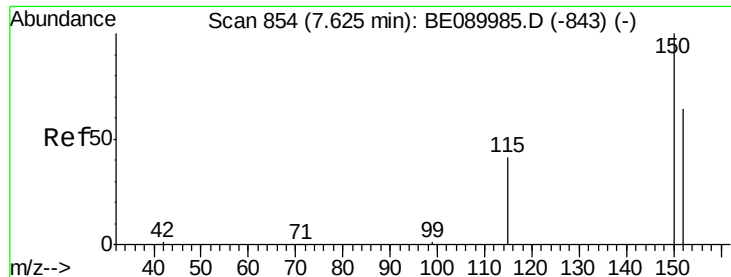
Instrument :
BNA_E
ClientSampleId :
X3SS0240006-150624DL

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Quant Time: Jun 30 16:32:51 2015
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.63 min Scan# 854

Delta R.T. 0.00 min

Lab File: BE090010.D

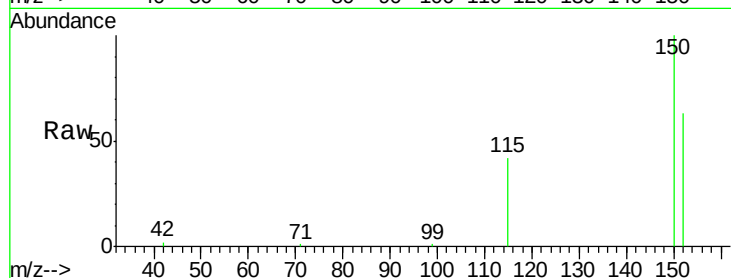
Acq: 30 Jun 2015 9:30

Instrument :

BNA_E

ClientSampleId :

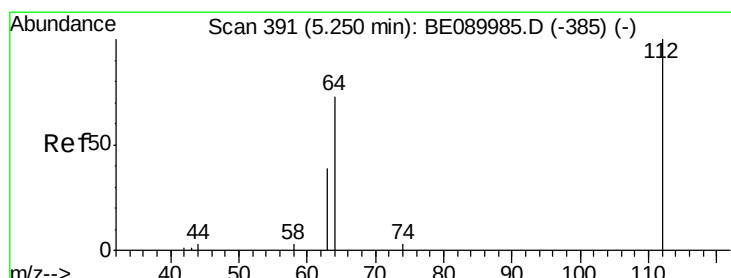
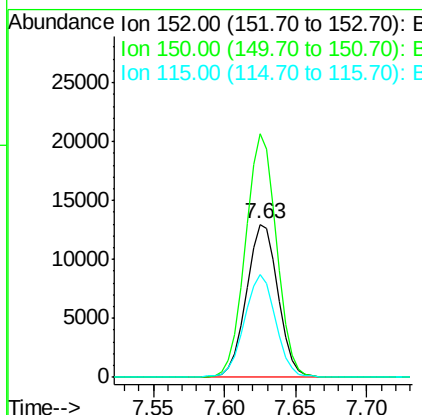
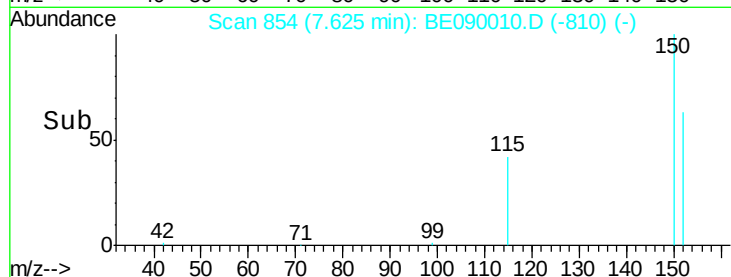
X3SS0240006-150624DL



Tgt Ion:	152	Resp:	19947
Ion Ratio	Lower	Upper	
152	100		
150	158.9	123.9	185.9
115	66.8	50.6	76.0

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#4

2-Fluorophenol

Concen: 3.06 ng

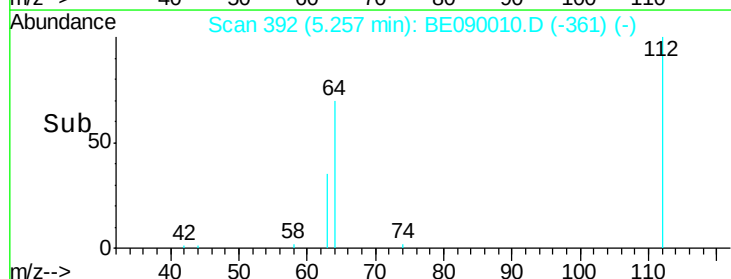
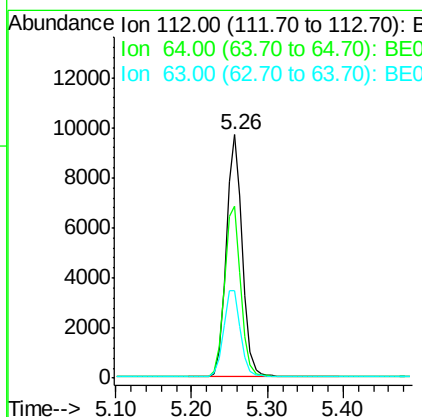
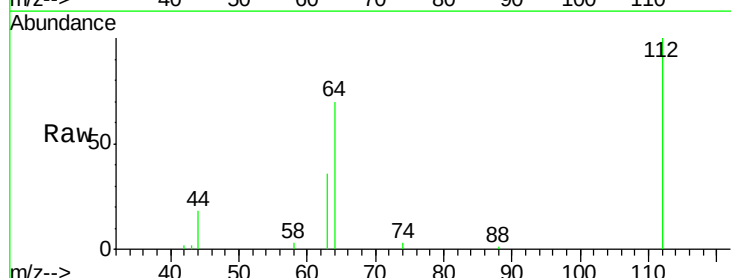
RT: 5.26 min Scan# 392

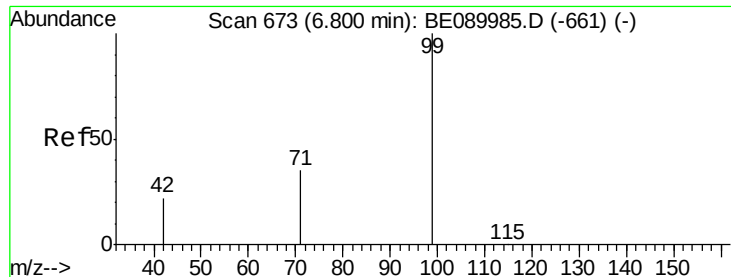
Delta R.T. 0.01 min

Lab File: BE090010.D

Acq: 30 Jun 2015 9:30

Tgt Ion:	112	Resp:	14023
Ion Ratio	Lower	Upper	
112	100		
64	72.3	56.3	84.5
63	37.3	29.8	44.6





#5

Phenol-d6

Concen: 3.55 ng

RT: 6.81 min Scan# 675

Delta R.T. 0.01 min

Lab File: BE090010.D

Acq: 30 Jun 2015 9:30

Instrument :

BNA_E

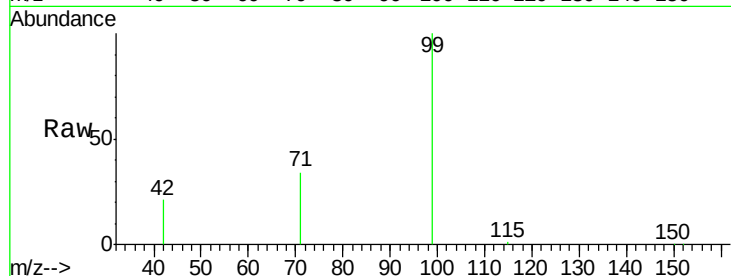
ClientSampleId :

X3SS0240006-150624DL

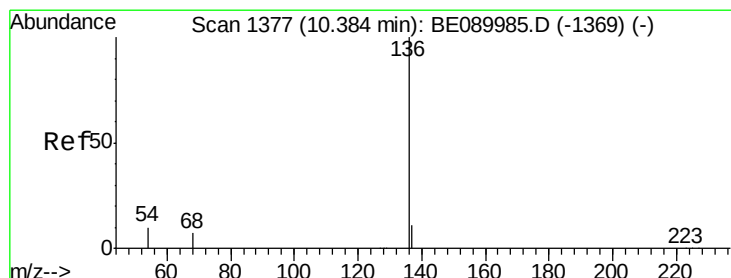
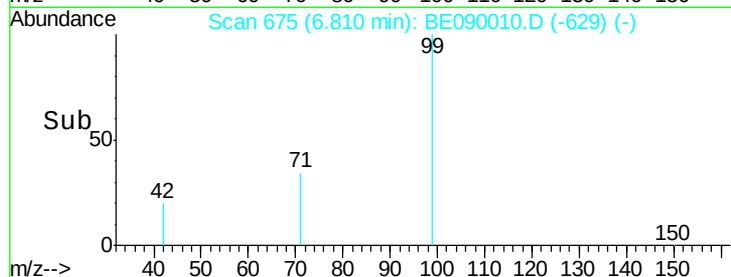
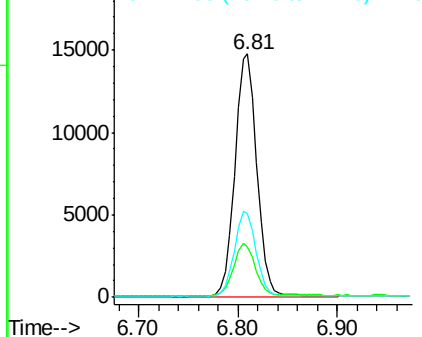
Tgt Ion:	99	Resp:	22758
Ion Ratio	Lower	Upper	
99	100		
42	21.0	18.7	28.1
71	34.9	27.5	41.3

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Abundance Ion 99.00 (98.70 to 99.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 71.00 (70.70 to 71.70): BE0



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.38 min Scan# 1377

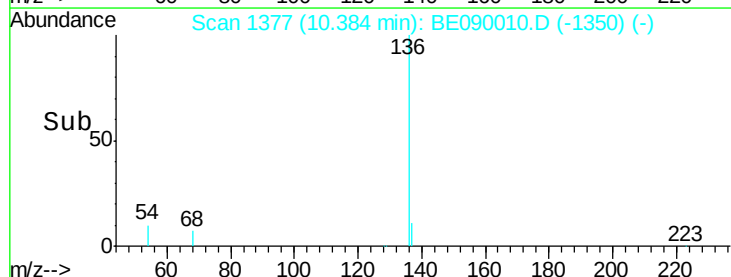
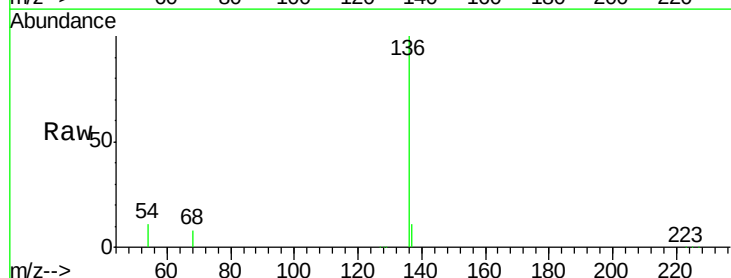
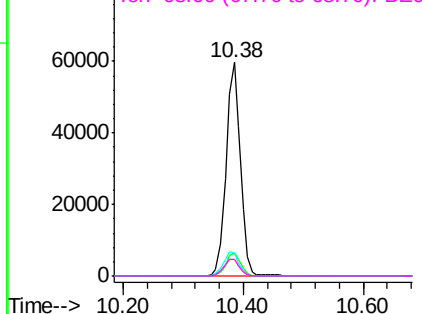
Delta R.T. 0.00 min

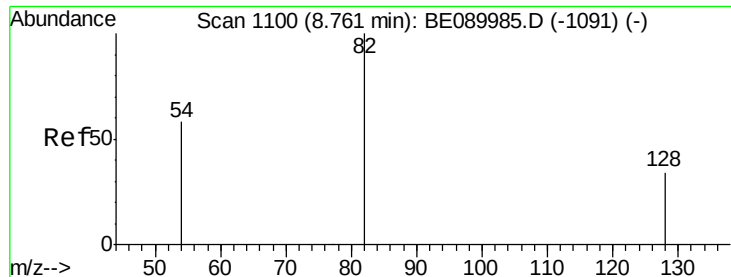
Lab File: BE090010.D

Acq: 30 Jun 2015 9:30

Tgt Ion:	136	Resp:	98502
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.9	13.3
54	10.5	8.2	12.4
68	7.6	5.8	8.8

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0
Ion 68.00 (67.70 to 68.70): BE0





#7

Nitrobenzene-d5

Concen: 1.89 ng

RT: 8.76 min Scan# 1100

Delta R.T. -0.00 min

Lab File: BE090010.D

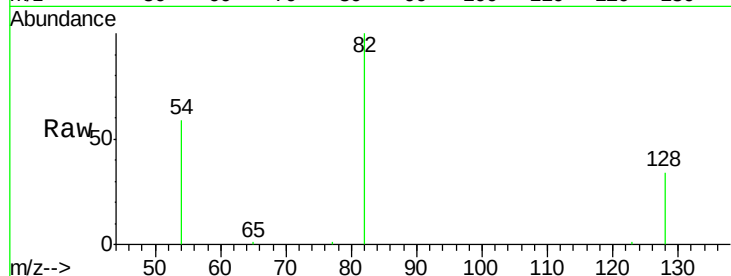
Acq: 30 Jun 2015 9:30

Instrument :

BNA_E

ClientSampleId :

X3SS0240006-150624DL



Tgt Ion: 82 Resp: 14778

Ion Ratio Lower Upper

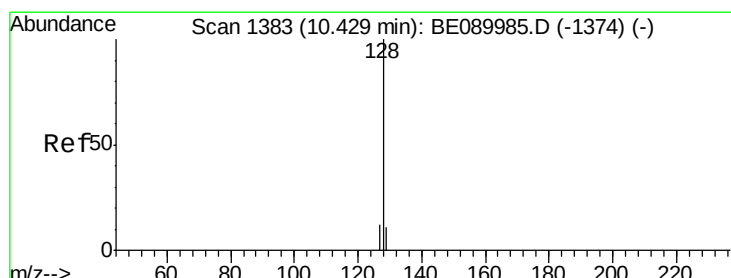
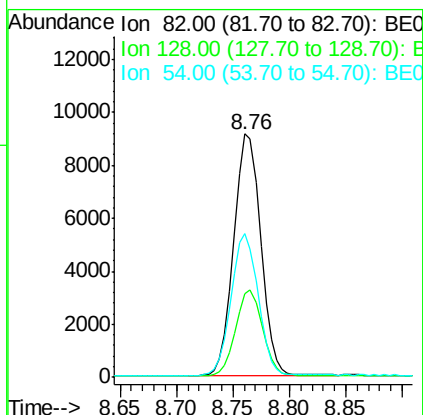
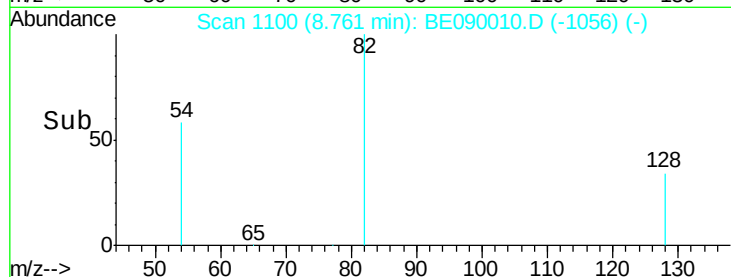
82 100

128 34.3 28.0 42.0

54 58.8 47.6 71.4

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#9

Naphthalene

Concen: 0.07 ng

RT: 10.43 min Scan# 1383

Delta R.T. 0.00 min

Lab File: BE090010.D

Acq: 30 Jun 2015 9:30

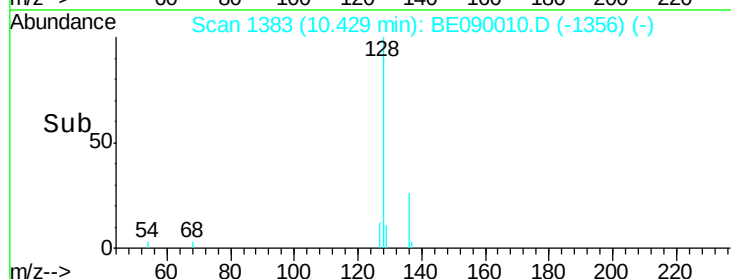
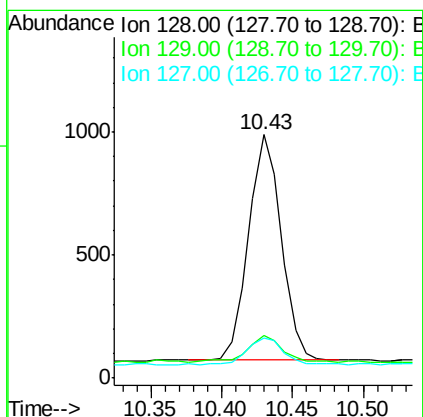
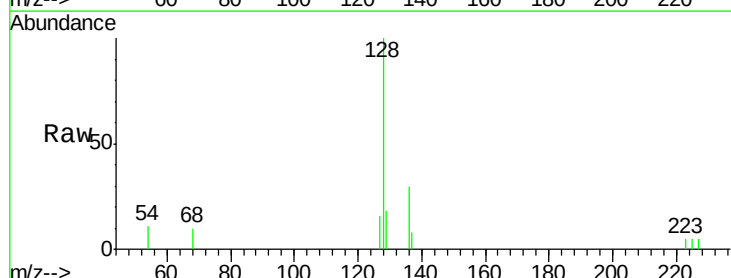
Tgt Ion: 128 Resp: 1470

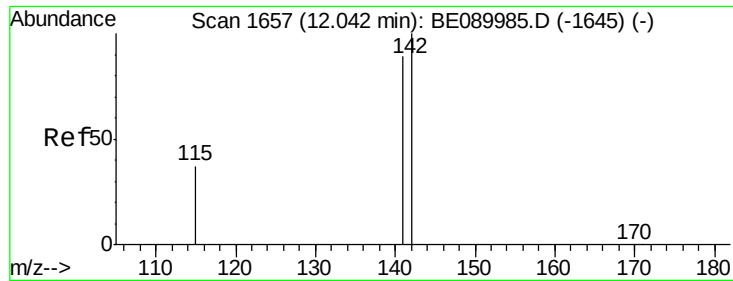
Ion Ratio Lower Upper

128 100

129 17.6 9.3 13.9#

127 16.3 10.2 15.4#





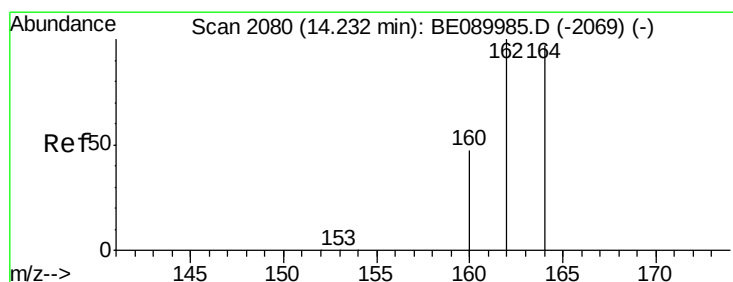
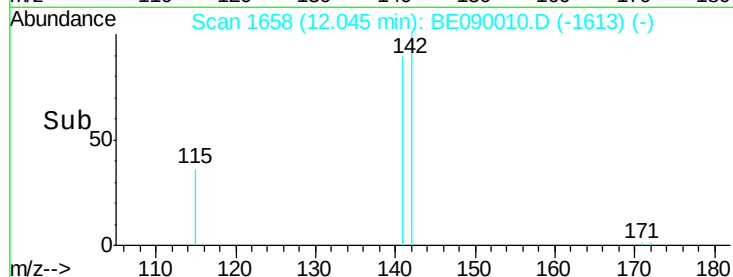
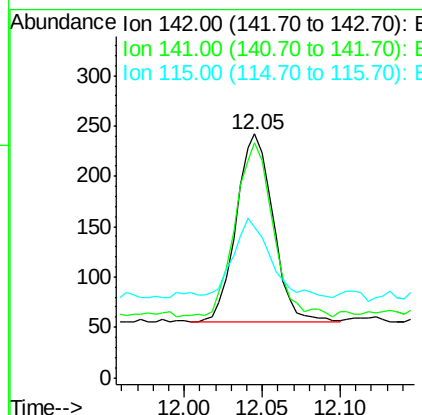
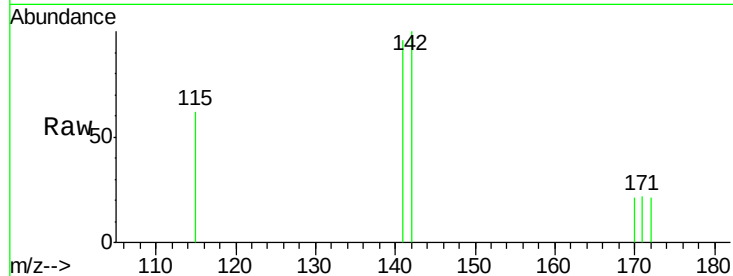
#11
2-Methylnaphthalene
Concen: 0.02 ng
RT: 12.05 min Scan# 1658
Delta R.T. 0.00 min
Lab File: BE090010.D
Acq: 30 Jun 2015 9:30

Instrument :
BNA_E
ClientSampleId :
X3SS0240006-150624DL

Tgt Ion:142 Resp: 310
Ion Ratio Lower Upper
142 100
141 96.3 71.3 106.9
115 62.0 30.4 45.6#

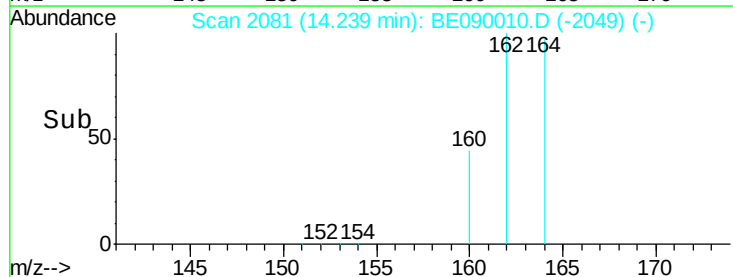
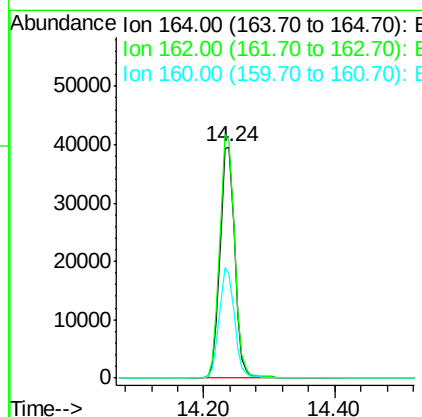
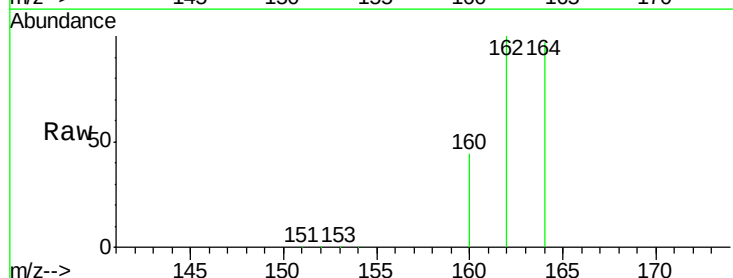
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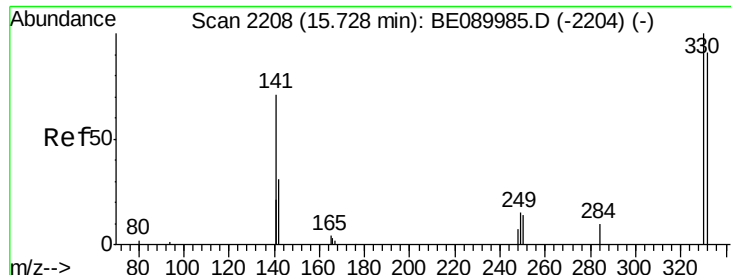
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.24 min Scan# 2081
Delta R.T. 0.01 min
Lab File: BE090010.D
Acq: 30 Jun 2015 9:30

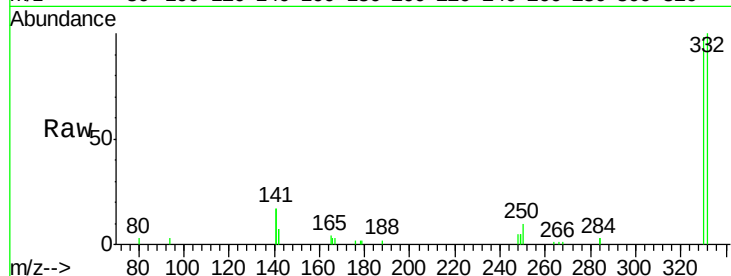
Tgt Ion:164 Resp: 62441
Ion Ratio Lower Upper
164 100
162 102.9 82.2 123.4
160 45.0 39.0 58.6





#13
 2,4,6-Tribromophenol
 Concen: 4.07 ng
 RT: 15.74 min Scan# 2208
 Delta R.T. 0.02 min
 Lab File: BE090010.D
 Acq: 30 Jun 2015 9:30

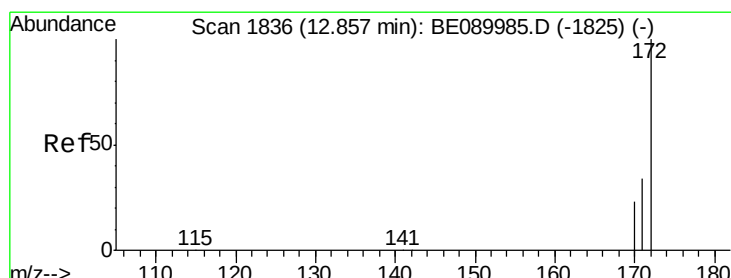
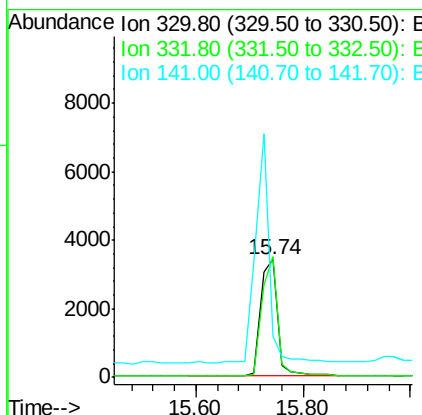
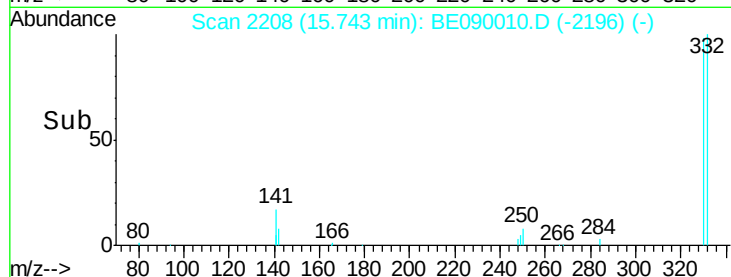
Instrument :
 BNA_E
 ClientSampleID :
 X3SS0240006-150624DL



Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.0	76.4	114.6
141	158.3	130.3	195.5

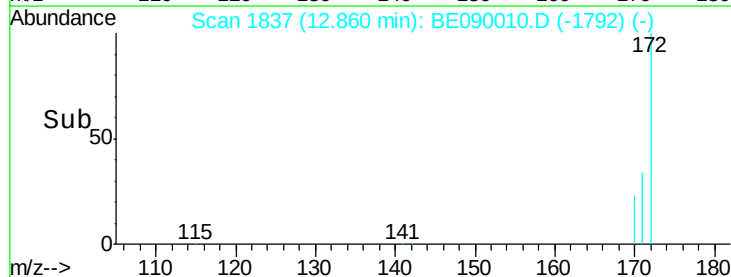
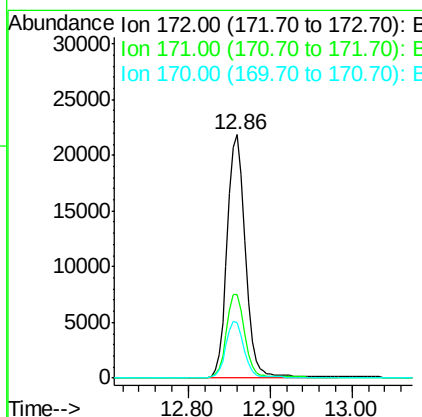
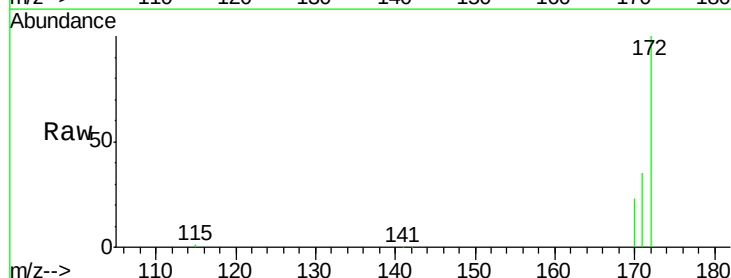
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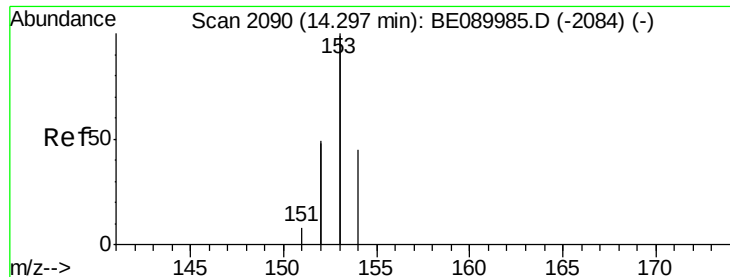
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#14
 2-Fluorobiphenyl
 Concen: 1.79 ng
 RT: 12.86 min Scan# 1837
 Delta R.T. 0.00 min
 Lab File: BE090010.D
 Acq: 30 Jun 2015 9:30

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.5	27.8	41.6
170	22.9	18.3	27.5





#16

Acenaphthene

Concen: 0.08 ng

RT: 14.30 min Scan# 2090

Delta R.T. 0.00 min

Lab File: BE090010.D

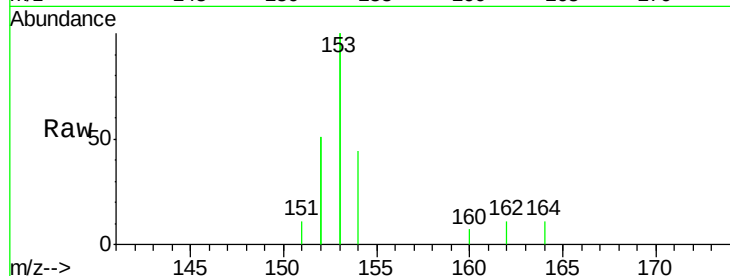
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Instrument :

BNA_E

ClientSampleId :

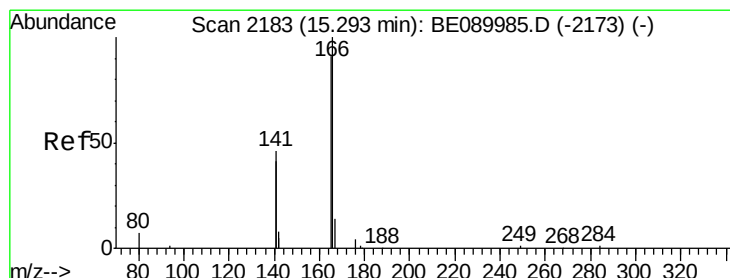
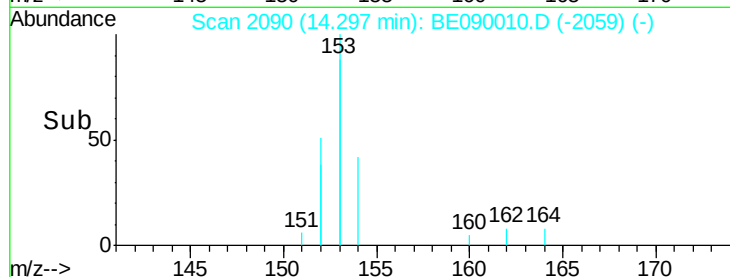
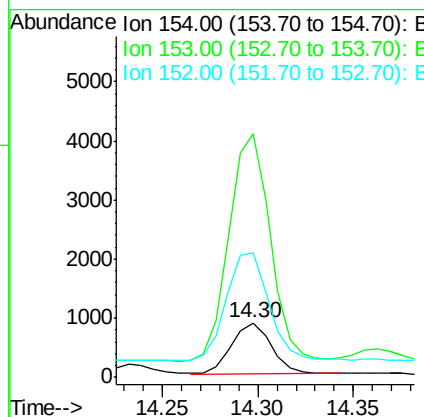
X3SS0240006-150624DL



Tgt Ion	Ratio	Lower	Upper
154	100		
153	468.4	358.6	538.0
152	227.5	189.6	284.4

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#17

Fluorene

Concen: 0.03 ng

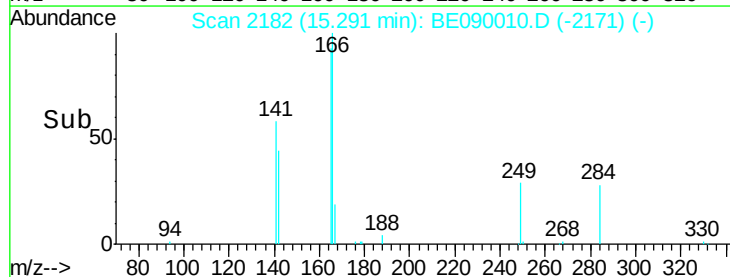
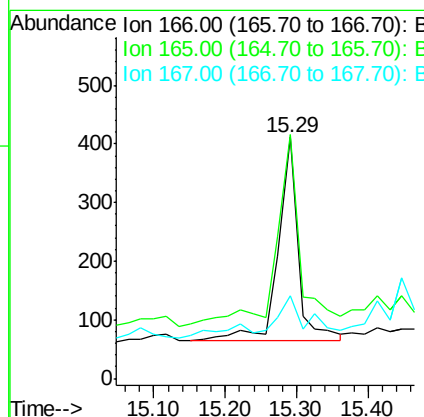
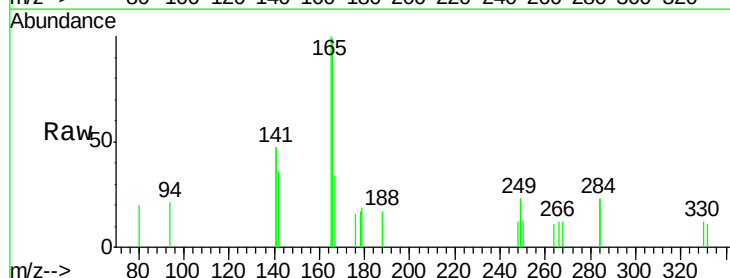
RT: 15.29 min Scan# 2182

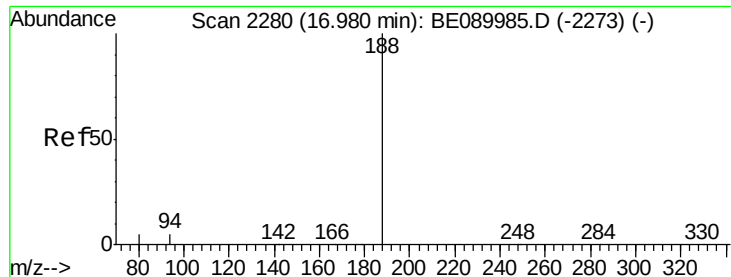
Delta R.T. -0.00 min

Lab File: BE090010.D

Acq: 30 Jun 2015 9:30

Tgt Ion	Ratio	Lower	Upper
166	100		
165	117.5	79.0	118.6
167	24.6	11.8	17.8#





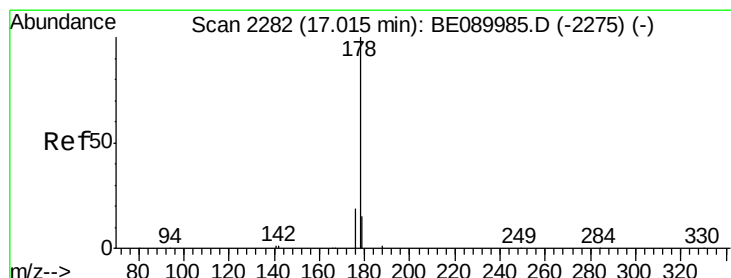
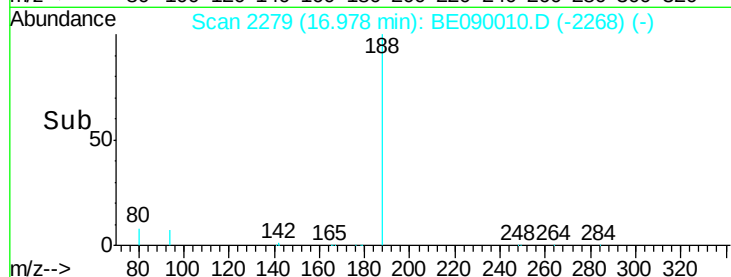
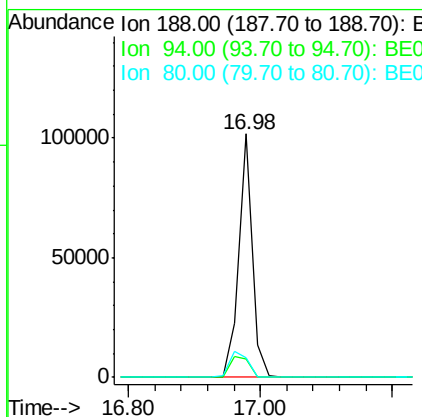
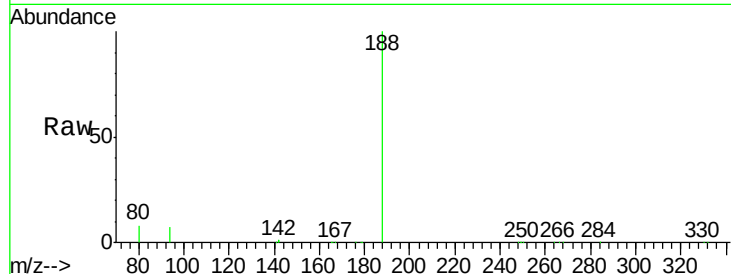
#18
Phenanthrene-d10
Concen: 5.00 ng
RT: 16.98 min Scan# 2279
Delta R.T. -0.00 min
Lab File: BE090010.D
Acq: 30 Jun 2015 9:30

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ClientSampleId :
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Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	7.5	4.1	6.1#
80	7.8	4.2	6.2#

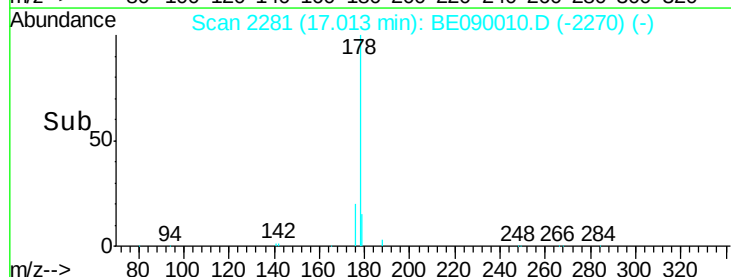
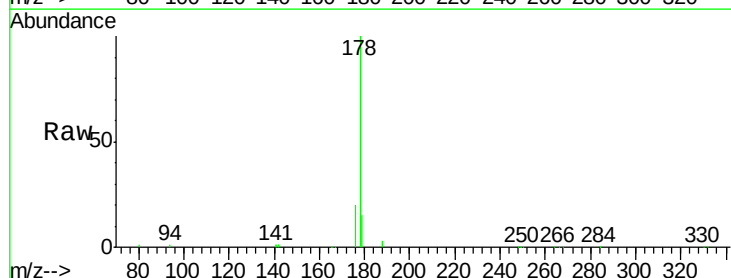
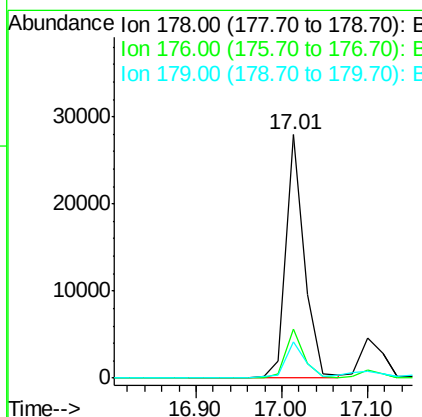
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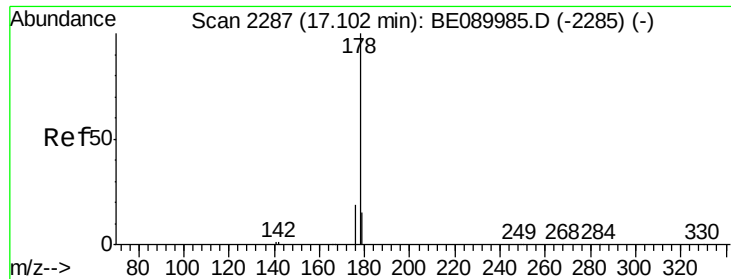
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#22
Phenanthrene
Concen: 1.11 ng
RT: 17.01 min Scan# 2281
Delta R.T. -0.00 min
Lab File: BE090010.D
Acq: 30 Jun 2015 9:30

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.1	15.3	22.9
179	16.2	12.4	18.6





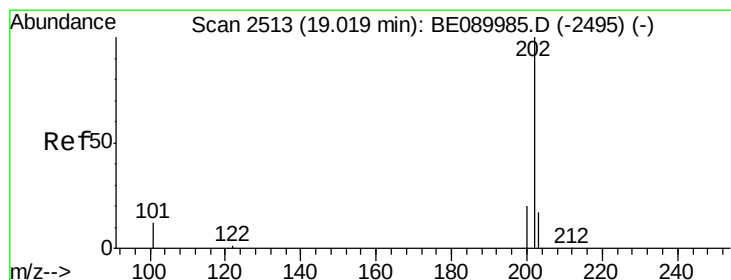
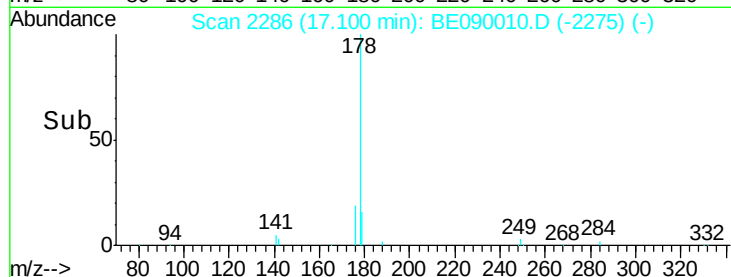
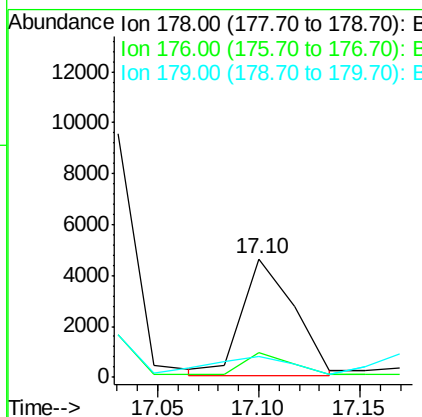
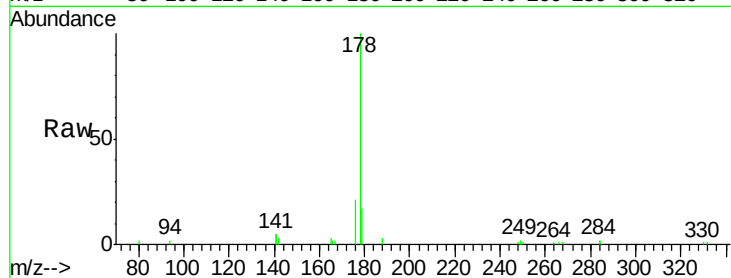
#23
 Anthracene
 Concen: 0.24 ng m
 RT: 17.10 min Scan# 2286
 Delta R.T. -0.00 min
 Lab File: BE090010.D
 Acq: 30 Jun 2015 9:30

Instrument :
 BNA_E
 ClientSampleId :
 X3SS0240006-150624DL

Tgt Ion	Ratio	Lower	Upper
178	100		
176	97.1	14.7	22.1#
179	81.8	12.1	18.1#

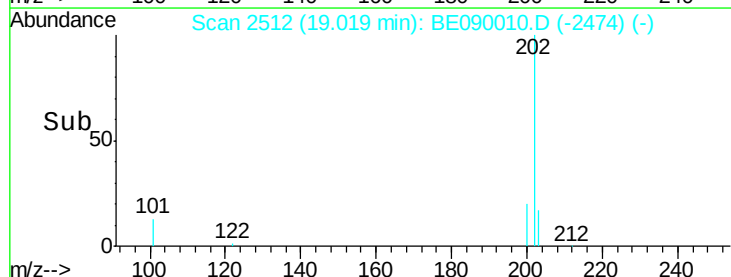
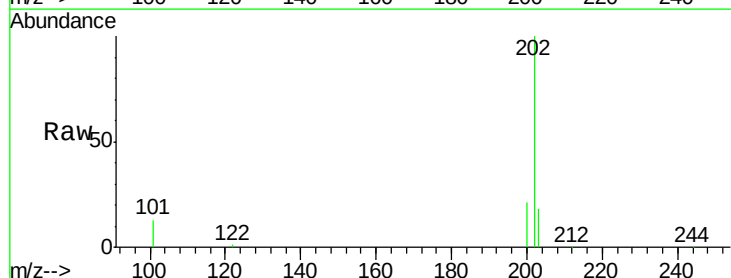
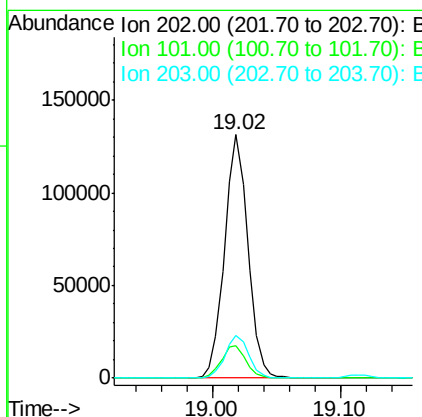
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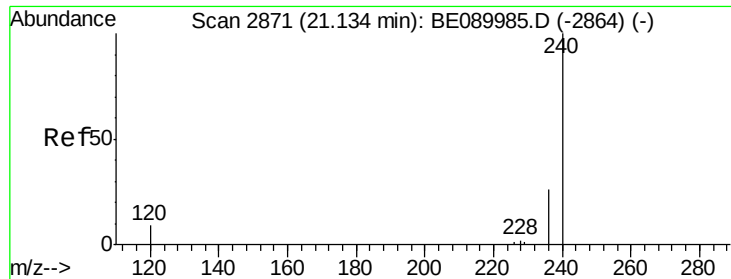
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#24
 Fluoranthene
 Concen: 3.96 ng
 RT: 19.02 min Scan# 2512
 Delta R.T. 0.00 min
 Lab File: BE090010.D
 Acq: 30 Jun 2015 9:30

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.6	10.6	15.8
203	17.4	13.8	20.6





#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.14 min Scan# 2870

Delta R.T. 0.00 min

Lab File: BE090010.D

Acq: 30 Jun 2015 9:30

Instrument :

BNA_E

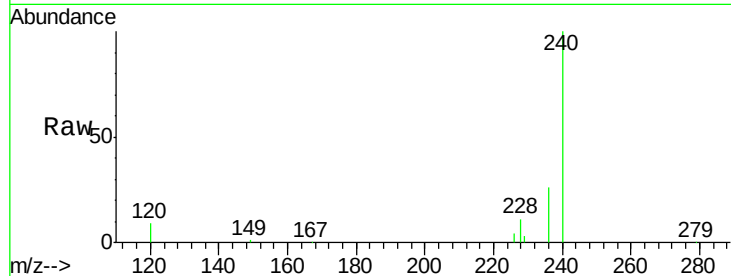
ClientSampleId :

X3SS0240006-150624DL

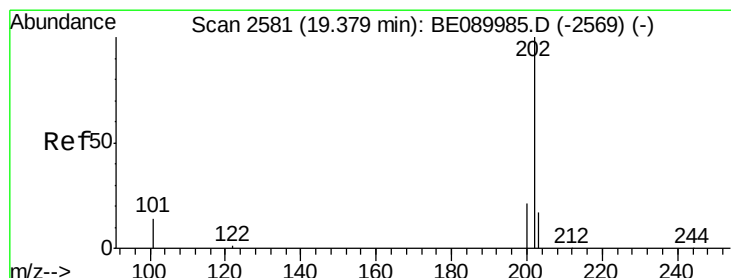
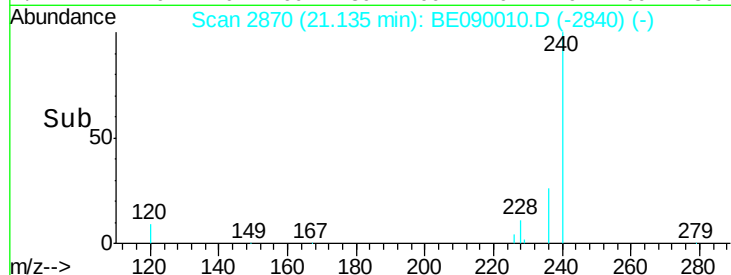
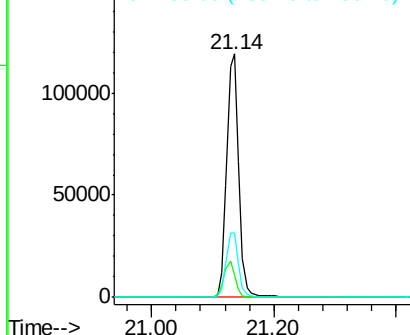
Tgt Ion:	240	Resp:	162025
Ion Ratio	Lower	Upper	
240	100		
120	9.2	6.9	10.3
236	26.4	20.8	31.2

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Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



#26

Pyrene

Concen: 4.09 ng

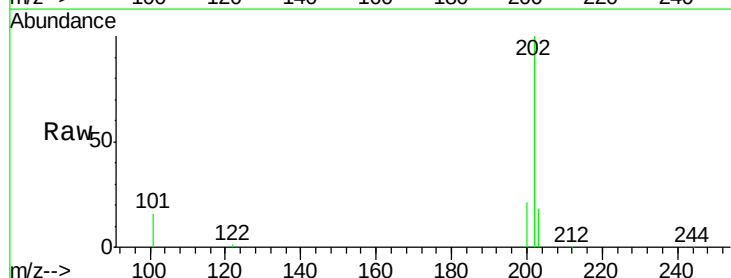
RT: 19.38 min Scan# 2580

Delta R.T. 0.00 min

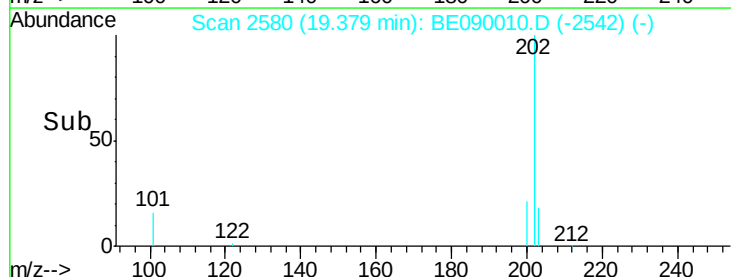
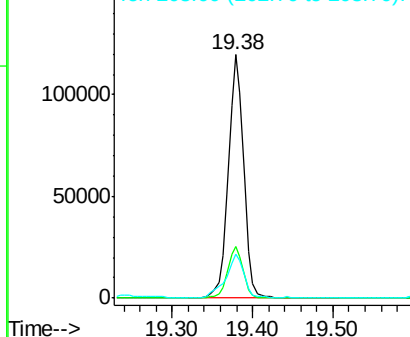
Lab File: BE090010.D

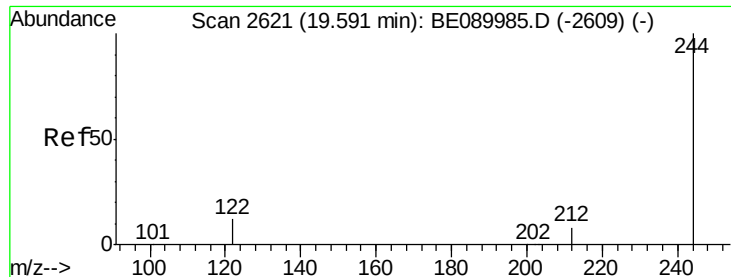
Acq: 30 Jun 2015 9:30

Tgt Ion:	202	Resp:	157930
Ion Ratio	Lower	Upper	
202	100		
200	21.4	16.8	25.2
203	21.2	13.9	20.9#



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





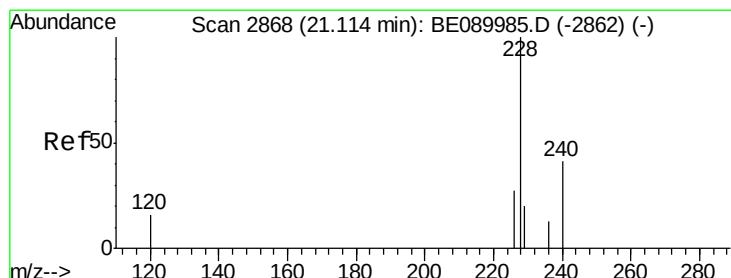
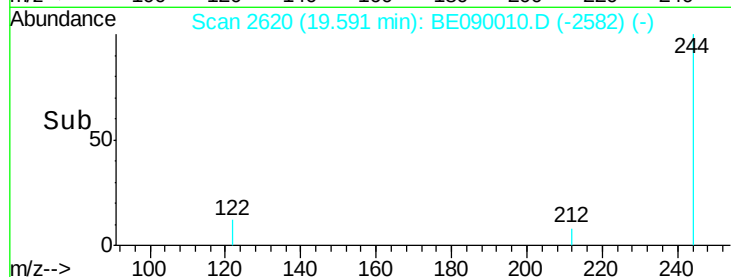
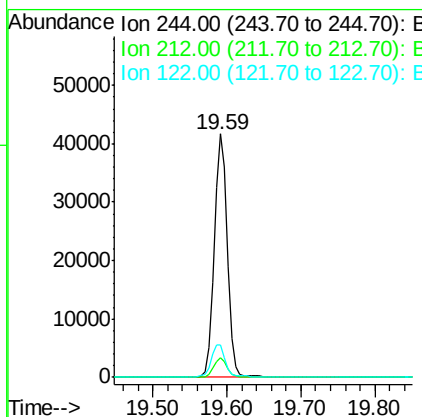
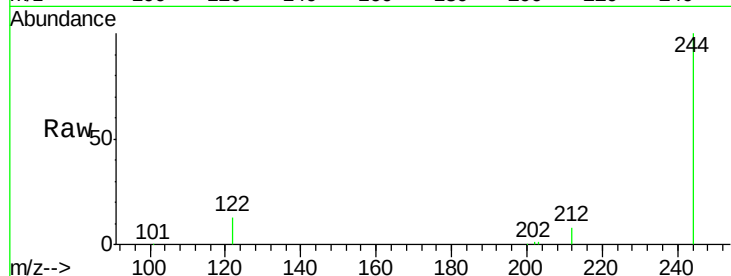
#27
 Terphenyl-d14
 Concen: 1.91 ng
 RT: 19.59 min Scan# 2620
 Delta R.T. 0.00 min
 Lab File: BE090010.D
 Acq: 30 Jun 2015 9:30

Instrument :
 BNA_E
 ClientSampleId :
 X3SS0240006-150624DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	8.2	6.6	9.8
122	13.3	9.8	14.8

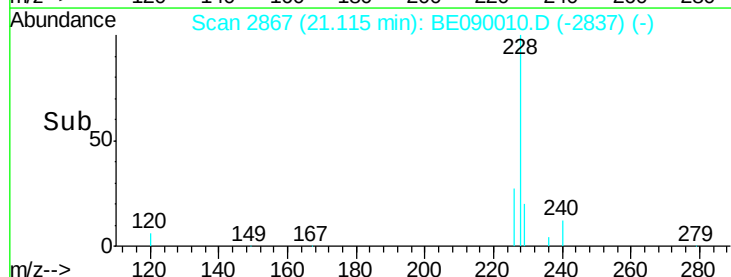
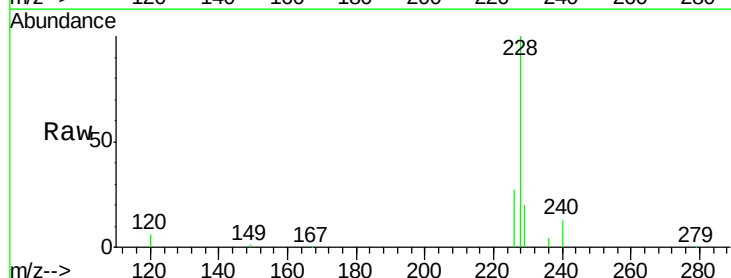
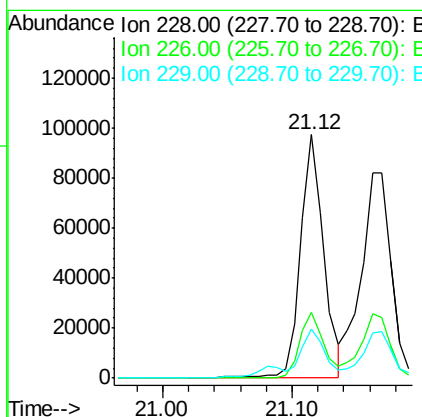
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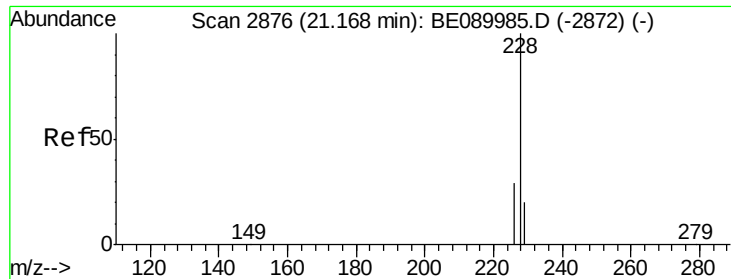
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#28
 Benzo(a)anthracene
 Concen: 2.98 ng
 RT: 21.12 min Scan# 2867
 Delta R.T. 0.00 min
 Lab File: BE090010.D
 Acq: 30 Jun 2015 9:30

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	27.2	21.8	32.6
229	20.1	15.8	23.6





#29

Chrysene

Concen: 3.14 ng

RT: 21.17 min Scan# 2875

Delta R.T. 0.00 min

Lab File: BE090010.D

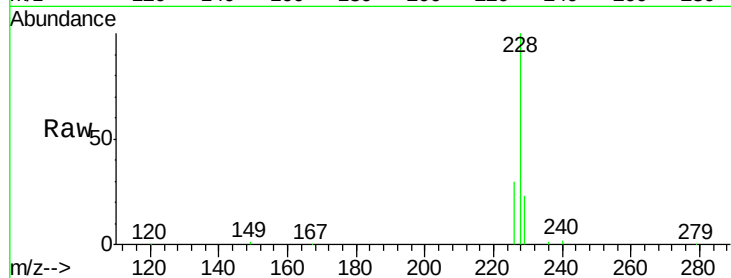
Acq: 30 Jun 2015 9:30

Instrument :

BNA_E

ClientSampleId :

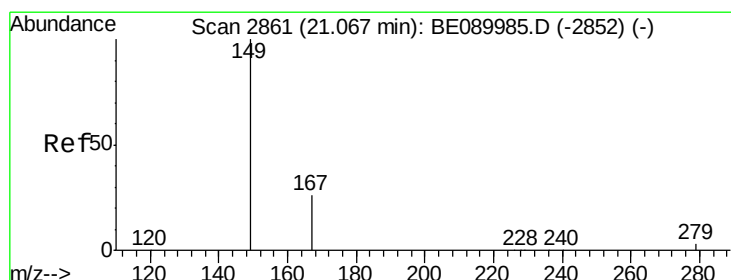
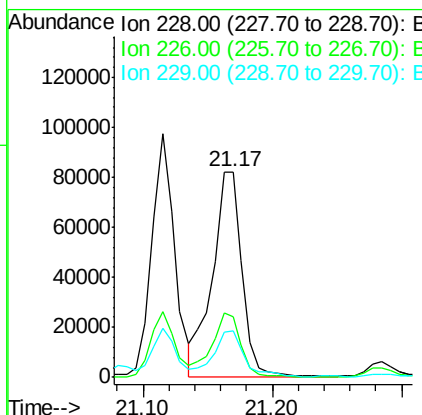
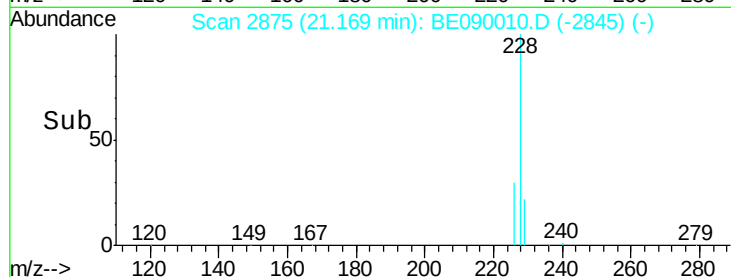
X3SS0240006-150624DL



Tgt Ion	Ratio	Resp	Lower	Upper
228	100			
226	29.7	23.4	35.0	
229	22.6	16.2	24.2	

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#30

Bis(2-ethylhexyl)phthalate

Concen: 0.69 ng

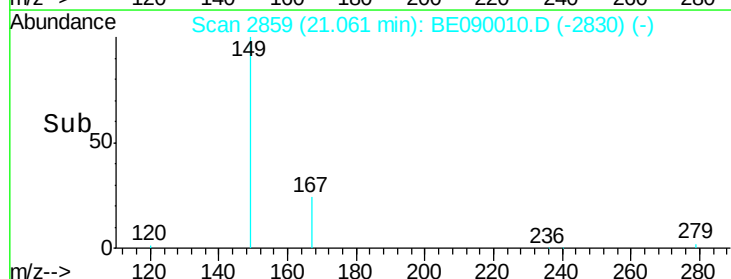
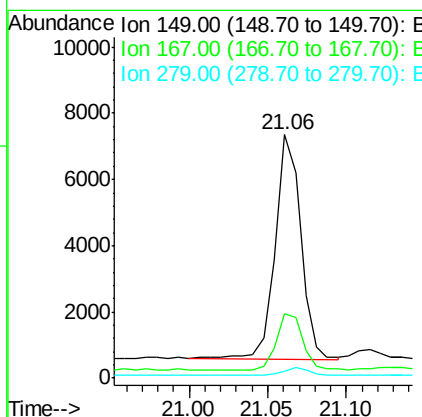
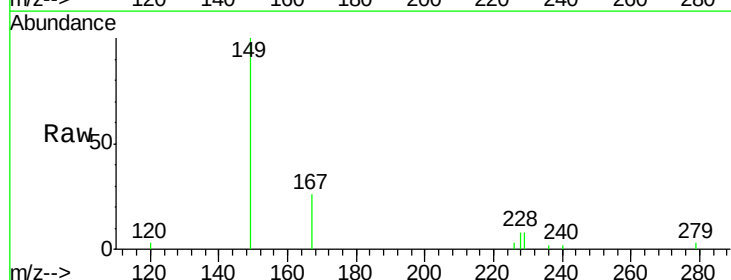
RT: 21.06 min Scan# 2859

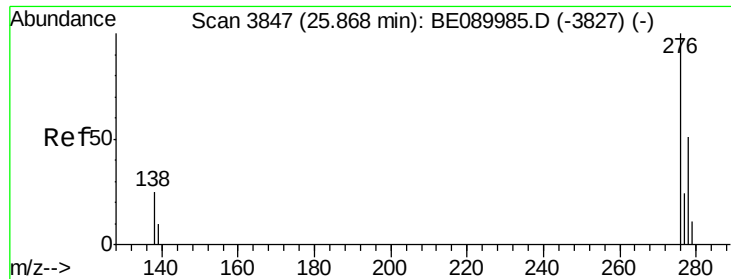
Delta R.T. -0.01 min

Lab File: BE090010.D

Acq: 30 Jun 2015 9:30

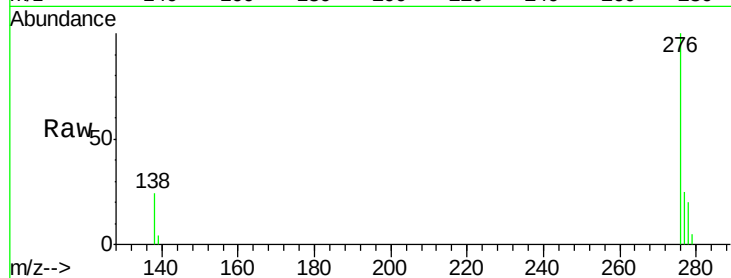
Tgt Ion	Ratio	Resp	Lower	Upper
149	100			
167	25.8	20.3	30.5	
279	3.3	2.6	3.8	





#31
 Indeno(1,2,3-cd)pyrene
 Concen: 2.12 ng
 RT: 25.87 min Scan# 3846
 Delta R.T. 0.00 min
 Lab File: BE090010.D
 Acq: 30 Jun 2015 9:30

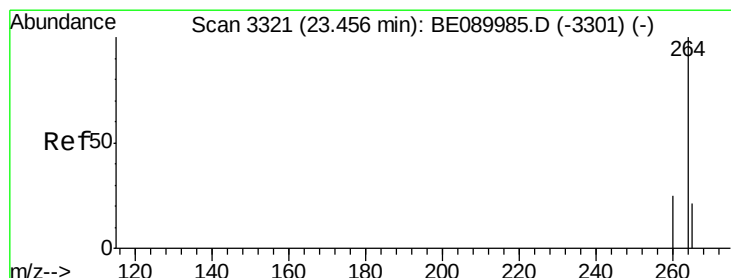
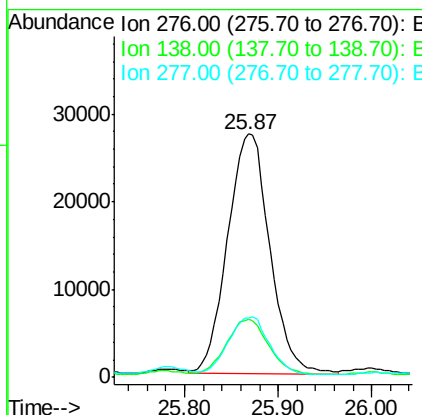
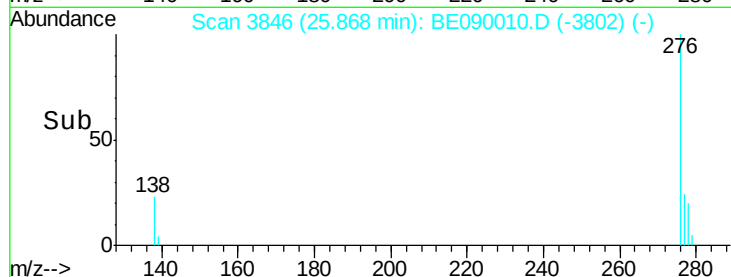
Instrument :
 BNA_E
 ClientSampleId :
 X3SS0240006-150624DL



Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.9	21.3	31.9
277	23.8	19.7	29.5

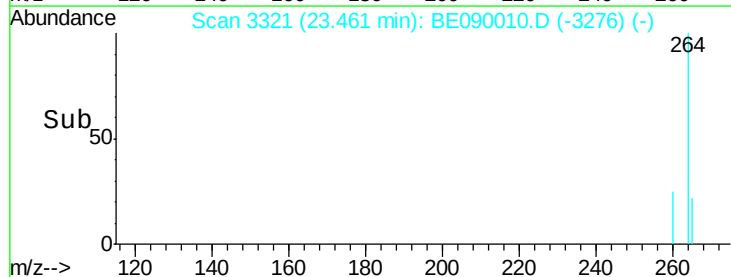
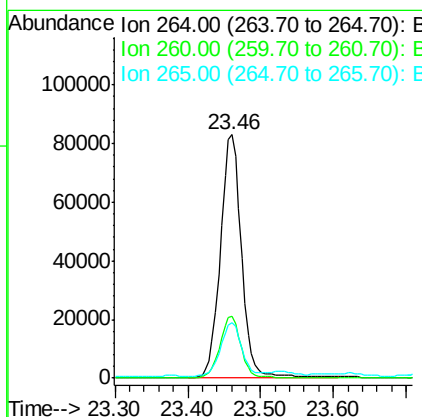
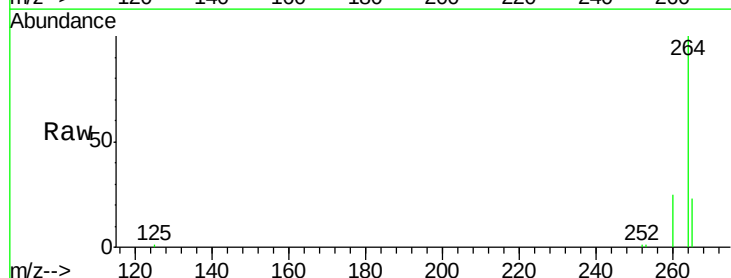
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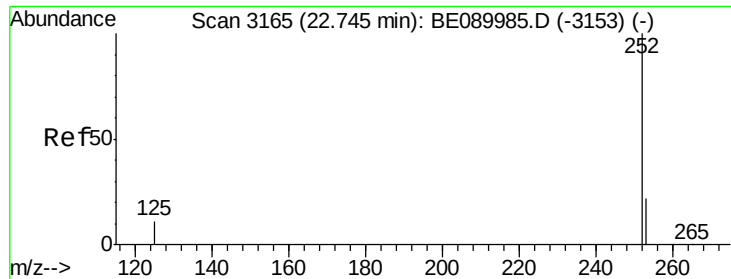
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#32
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.46 min Scan# 3321
 Delta R.T. 0.00 min
 Lab File: BE090010.D
 Acq: 30 Jun 2015 9:30

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.2	20.2	30.2
265	22.7	17.1	25.7





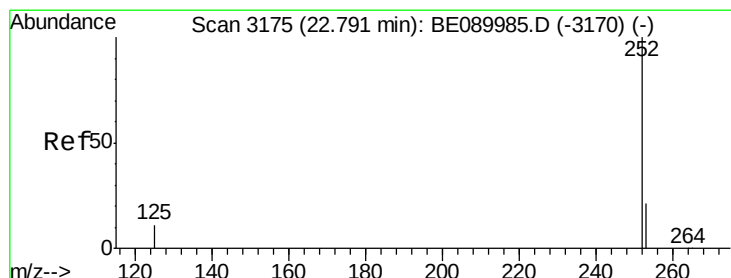
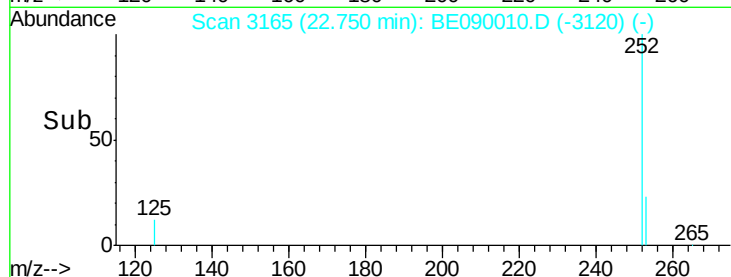
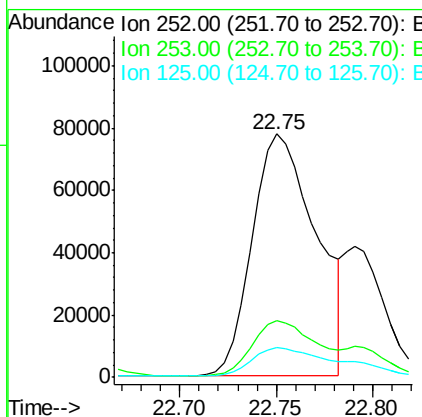
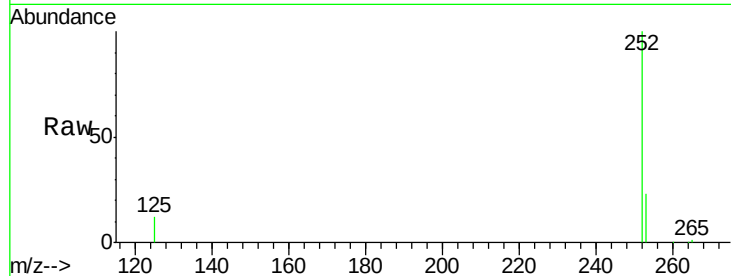
#33
Benzo(b)fluoranthene
Concen: 4.89 ng
RT: 22.75 min Scan# 3165
Delta R.T. 0.00 min
Lab File: BE090010.D
Acq: 30 Jun 2015 9:30

Instrument :
BNA_E
ClientSampleId :
X3SS0240006-150624DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	23.2	17.8	26.8
125	12.1	9.0	13.4

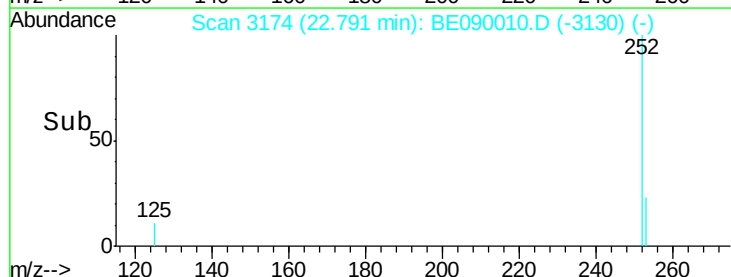
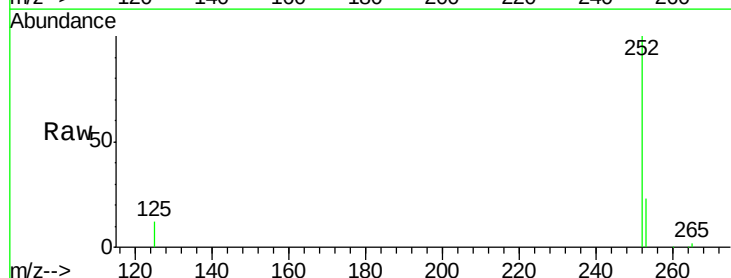
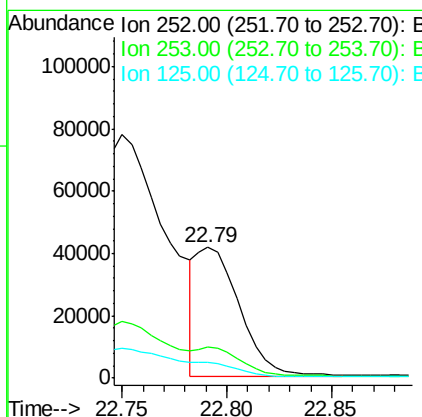
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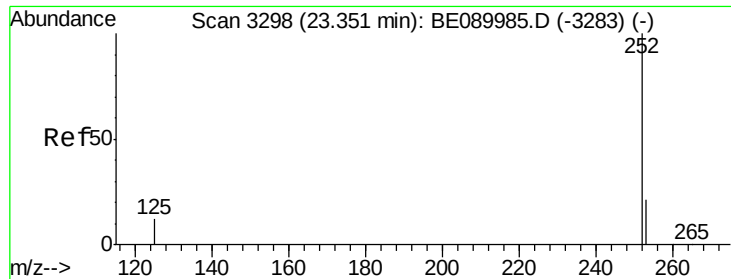
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#34
Benzo(k)fluoranthene
Concen: 1.48 ng m
RT: 22.79 min Scan# 3174
Delta R.T. 0.00 min
Lab File: BE090010.D
Acq: 30 Jun 2015 9:30

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	23.4	17.5	26.3
125	12.3	9.5	14.3





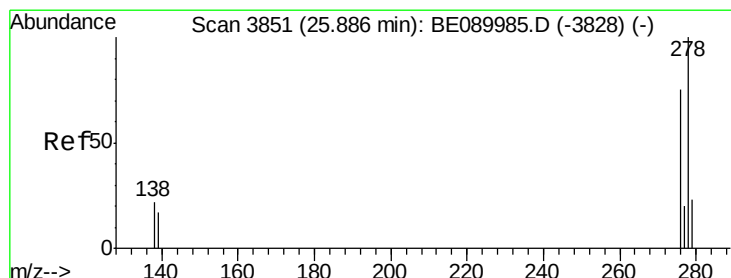
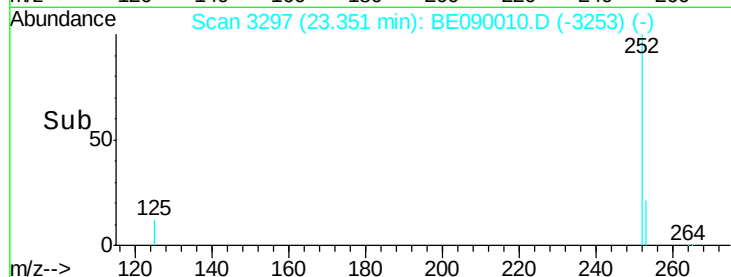
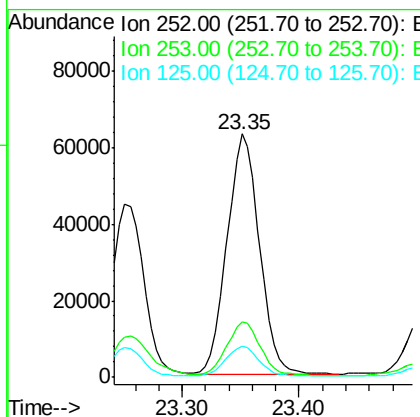
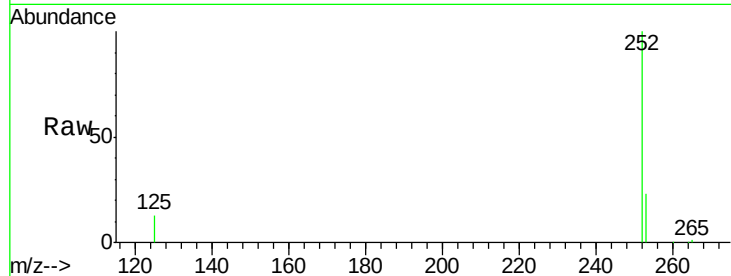
#35
Benzo(a)pyrene
Concen: 3.55 ng
RT: 23.35 min Scan# 3297
Delta R.T. 0.00 min
Lab File: BE090010.D
Acq: 30 Jun 2015 9:30

Instrument :
BNA_E
ClientSampleId :
X3SS0240006-150624DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	23.0	17.4	26.2
125	13.0	10.5	15.7

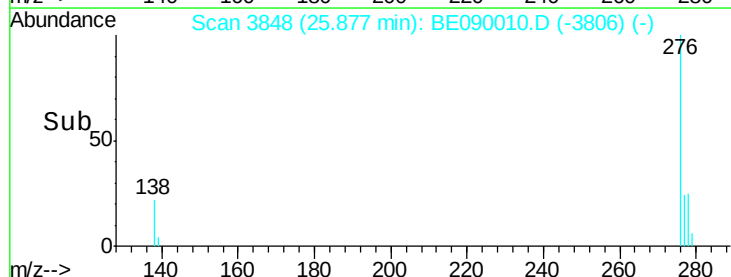
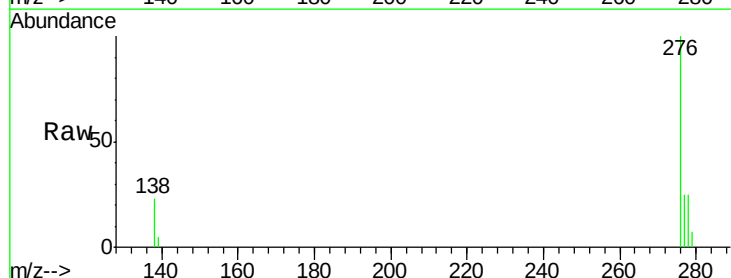
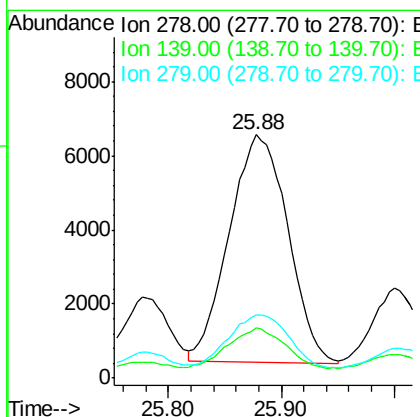
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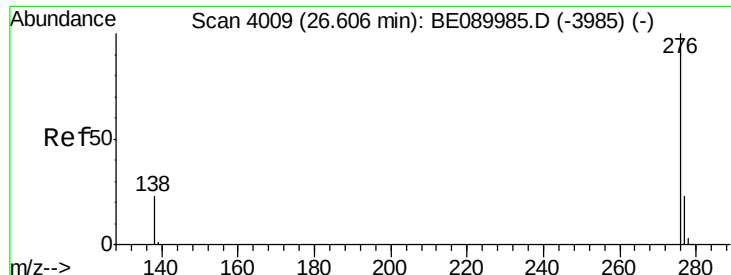
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#36
Dibenzo(a,h)anthracene
Concen: 0.63 ng
RT: 25.88 min Scan# 3848
Delta R.T. -0.01 min
Lab File: BE090010.D
Acq: 30 Jun 2015 9:30

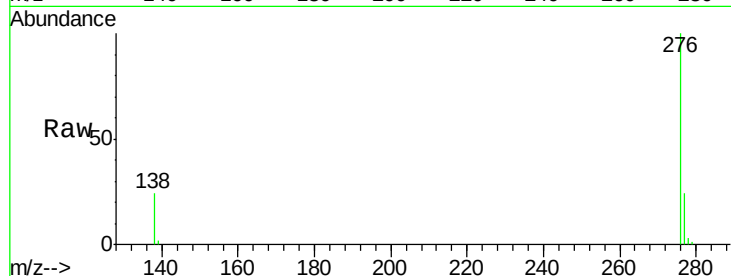
Tgt Ion	Ratio	Resp Lower	Resp Upper
278	100		
139	20.6	14.4	21.6
279	26.1	19.0	28.6





#37
 Benzo(g,h,i)perylene
 Concen: 2.44 ng
 RT: 26.61 min Scan# 4009
 Delta R.T. 0.00 min
 Lab File: BE090010.D
 Acq: 30 Jun 2015 9:30

Instrument :
 BNA_E
 ClientSampleId :
 X3SS0240006-150624DL



Tgt Ion:	276	Resp:	85985
Ion Ratio	Lower	Upper	
276	100		
277	24.2	18.8	28.2
138	23.7	18.6	27.8

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