

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE062915\
 Data File : BE090009.D
 Acq On : 30 Jun 2015 8:54
 Operator : TP/IZ
 Sample : G2811-02
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0520624-150625

Manual Integrations
 APPROVED

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 6/30/2015 4:55:42 PM

Quant Time: Jun 30 16:29:31 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	16540	5.00	ng	0.00
6) Naphthalene-d8	10.39	136	81449	5.00	ng	0.00
12) Acenaphthene-d10	14.24	164	48642	5.00	ng	0.00
18) Phenanthrene-d10	16.98	188	109467	5.00	ng	0.00
25) Chrysene-d12	21.13	240	115299	5.00	ng	0.00
32) Perylene-d12	23.46	264	116708	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.26	112	34433	9.06	ng	0.00
5) Phenol-d6	6.81	99	56282	10.58	ng	0.00
7) Nitrobenzene-d5	8.76	82	33842	5.23	ng	0.00
13) 2,4,6-Tribromophenol	15.73	330	18331	12.86	ng	0.00
14) 2-Fluorobiphenyl	12.86	172	72090	4.93	ng	0.00
27) Terphenyl-d14	19.59	244	103822	5.40	ng	0.00
Target Compounds						
9) Naphthalene	10.43	128	823	0.04	ng	# 74
11) 2-Methylnaphthalene	12.05	142	262	0.02	ng	# 85
16) Acenaphthene	14.30	154	657	0.05	ng	98
17) Fluorene	15.29	166	650	0.04	ng	# 88
22) Phenanthrene	17.01	178	16484	0.59	ng	99
23) Anthracene	17.10	178	3355m	0.13	ng	
24) Fluoranthene	19.02	202	54644	1.74	ng	99
26) Pyrene	19.38	202	49955	1.82	ng	# 95
28) Benzo(a)anthracene	21.11	228	37191	1.29	ng	97
29) Chrysene	21.17	228	38681	1.29	ng	96
31) Indeno(1,2,3-cd)pyrene	25.87	276	26955	0.94	ng	95
33) Benzo(b)fluoranthene	22.75	252	54927	2.13	ng	# 95
34) Benzo(k)fluoranthene	22.79	252	19233m	0.67	ng	
35) Benzo(a)pyrene	23.35	252	37642	1.58	ng	96
36) Dibenzo(a,h)anthracene	25.89	278	6675	0.27	ng	# 80
37) Benzo(g,h,i)perylene	26.62	276	27544	1.11	ng	96

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

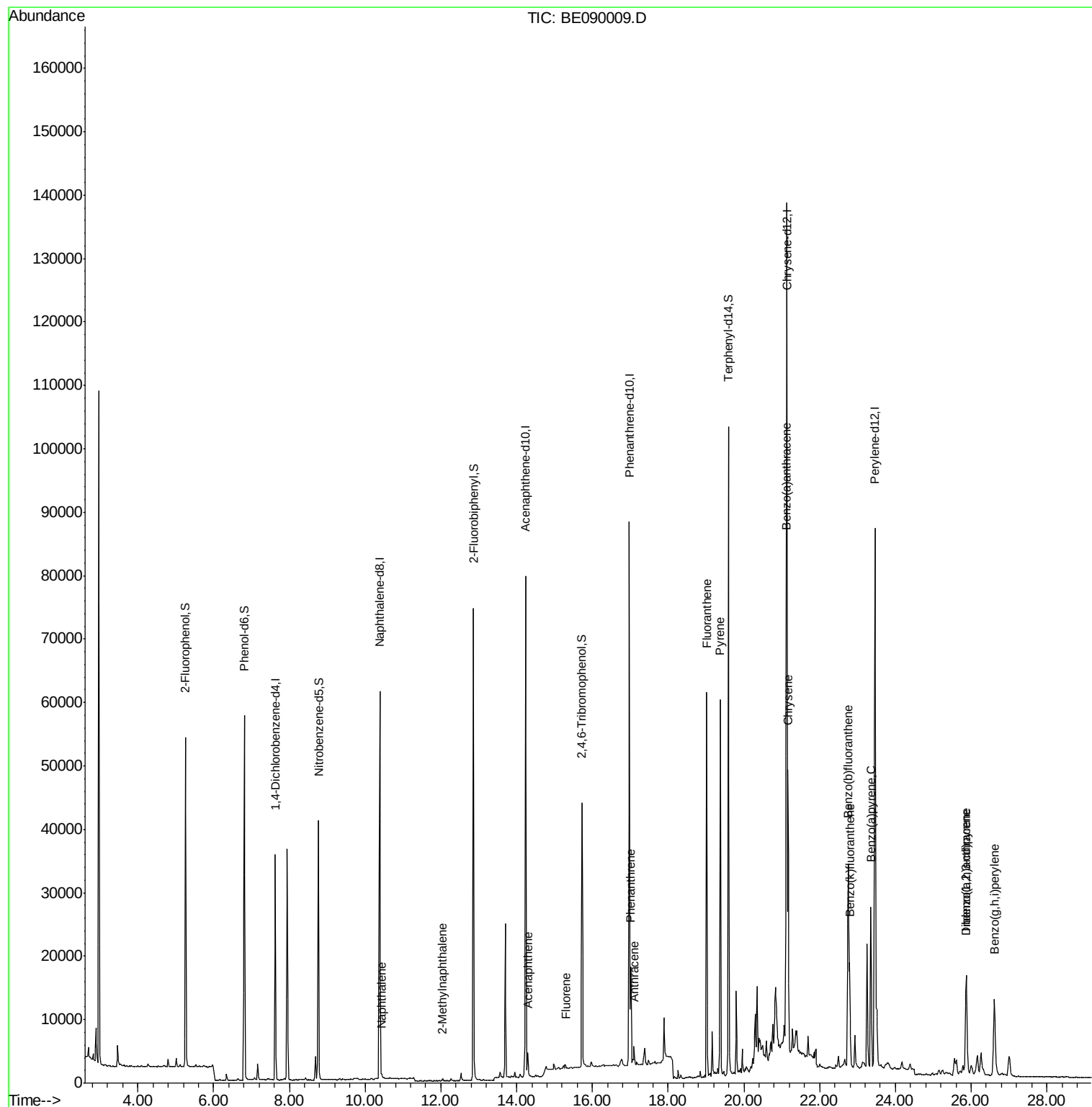
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE062915\
Data File : BE090009.D
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ALS Vial : 27 Sample Multiplier: 1

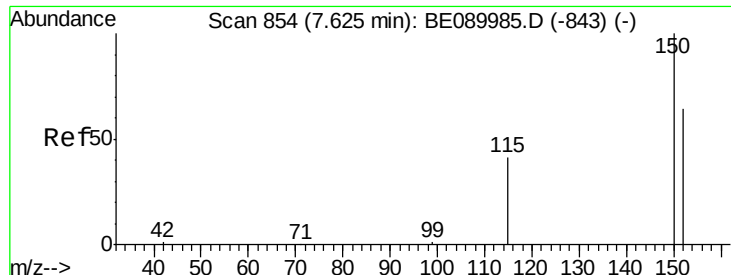
Instrument :
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X1SS0520624-150625

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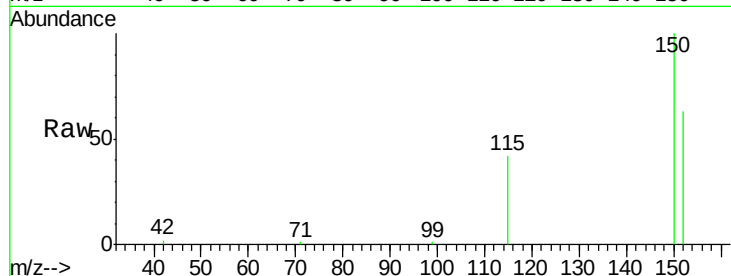




#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.62 min Scan# 854
Delta R.T. 0.00 min
Lab File: BE090009.D
Acq: 30 Jun 2015 8:54

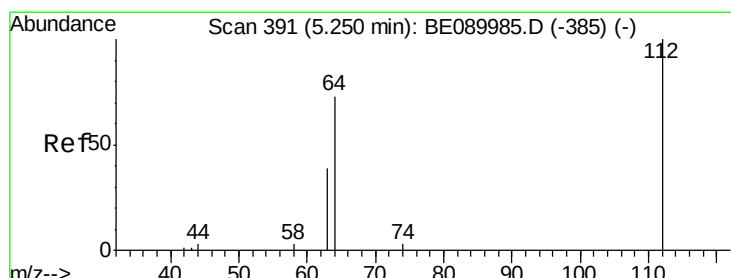
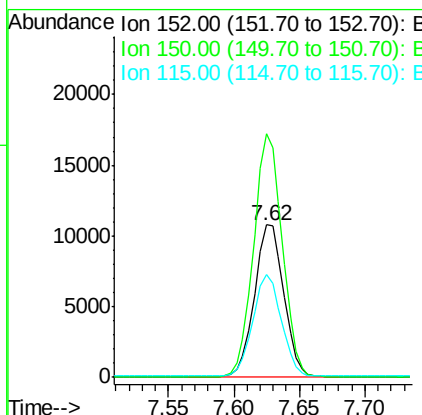
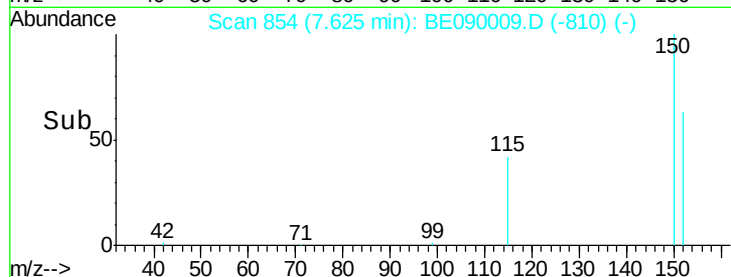
Instrument :
BNA_E
ClientSampleId :
X1SS0520624-150625



Tgt Ion	Ratio	Lower	Upper
152	100		
150	159.5	123.9	185.9
115	67.2	50.6	76.0

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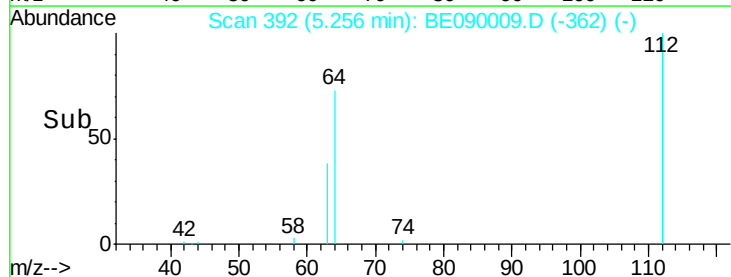
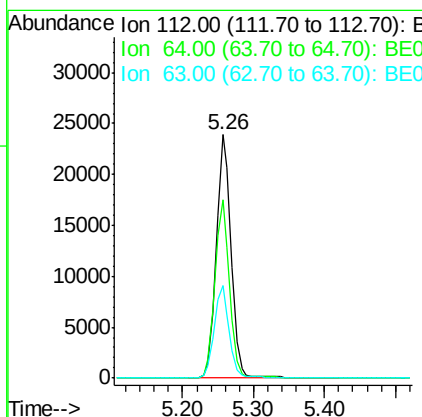
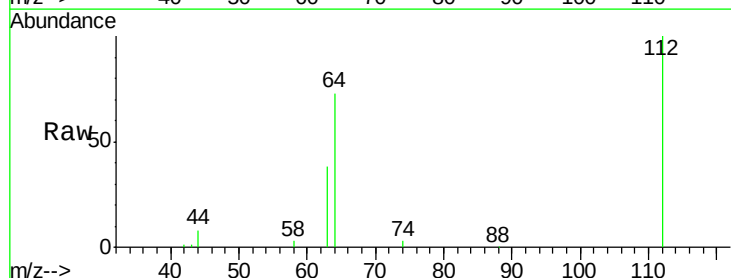
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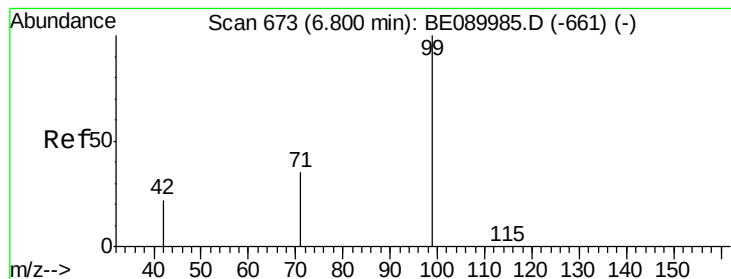


#4

2-Fluorophenol
Concen: 9.06 ng
RT: 5.26 min Scan# 392
Delta R.T. 0.01 min
Lab File: BE090009.D
Acq: 30 Jun 2015 8:54

Tgt Ion	Ratio	Lower	Upper
112	100		
64	72.4	56.3	84.5
63	37.3	29.8	44.6





#5

Phenol-d6

Concen: 10.58 ng

RT: 6.81 min Scan# 675

Delta R.T. 0.01 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

Instrument :

BNA_E

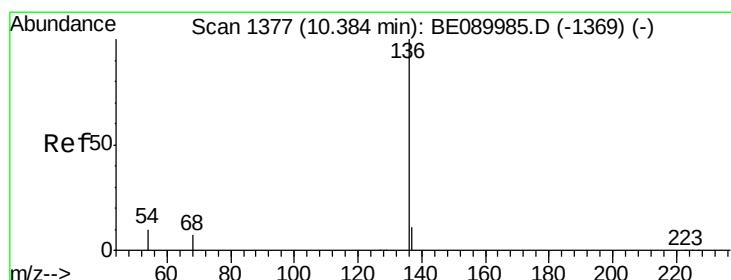
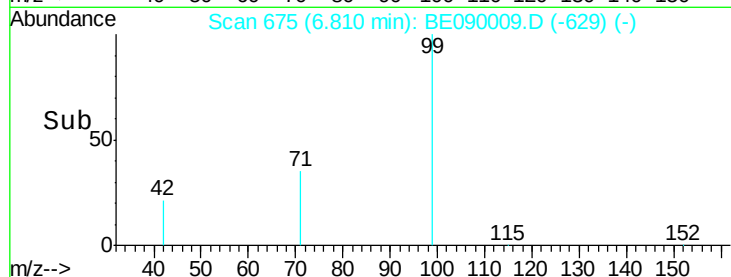
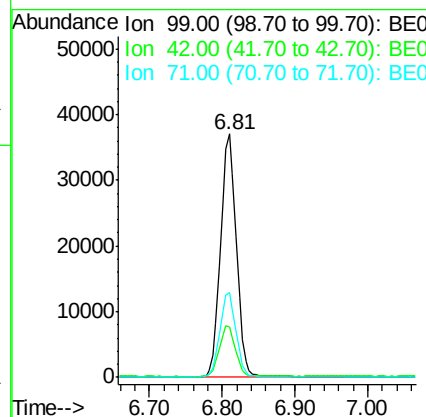
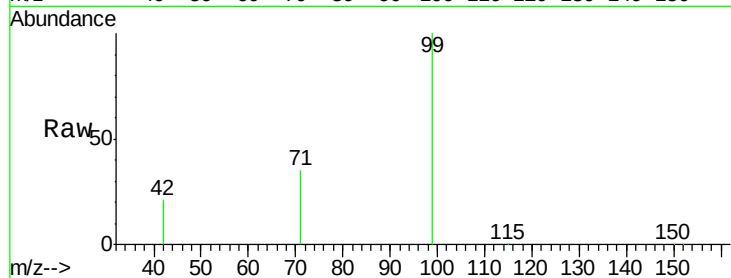
ClientSampleId :

X1SS0520624-150625

Tgt Ion:	99	Resp:	56282
Ion Ratio	Lower	Upper	
99	100		
42	21.1	18.7	28.1
71	34.9	27.5	41.3

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#6

Naphthalene-d8

Concen: 5.00 ng

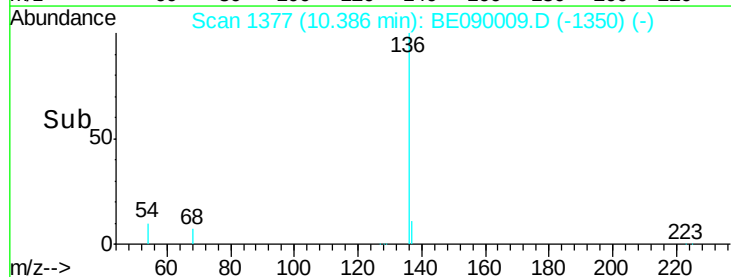
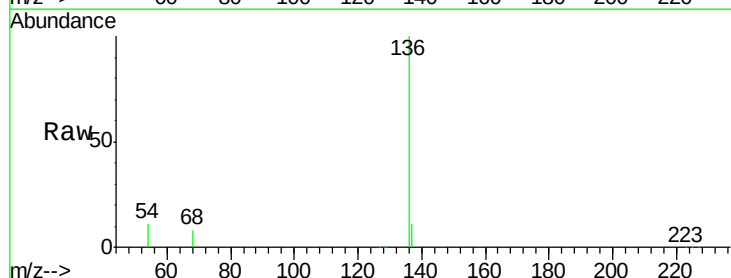
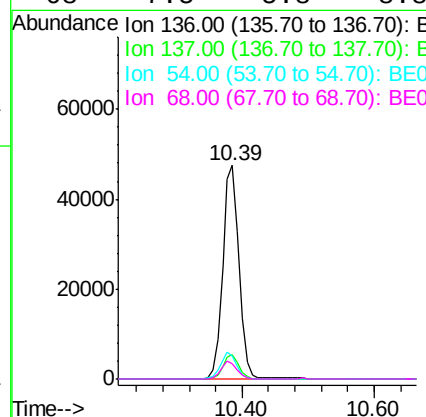
RT: 10.39 min Scan# 1377

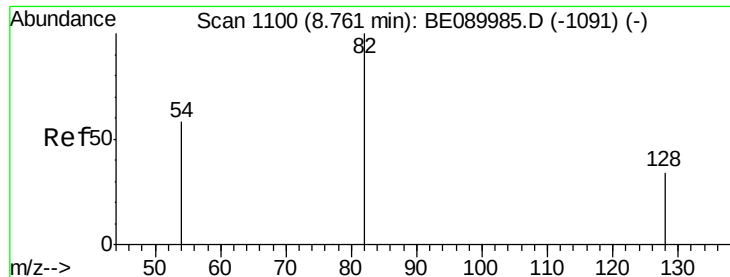
Delta R.T. 0.00 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

Tgt Ion:	136	Resp:	81449
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	10.5	8.2	12.4
68	7.5	5.8	8.8





#7

Nitrobenzene-d5

Concen: 5.23 ng

RT: 8.76 min Scan# 1101

Delta R.T. 0.00 min

Lab File: BE090009.D

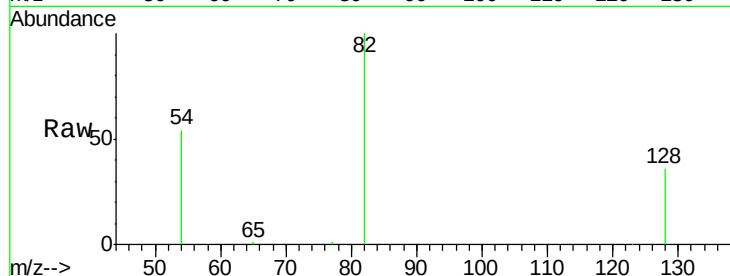
Acq: 30 Jun 2015 8:54

Instrument :

BNA_E

ClientSampleId :

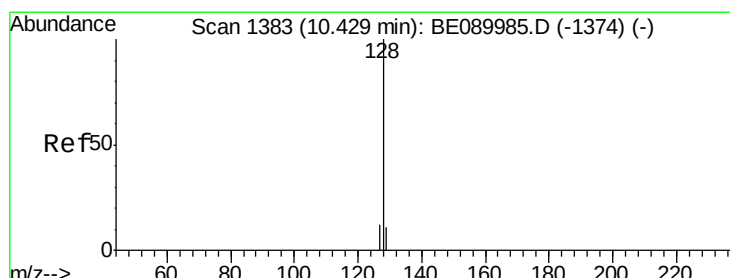
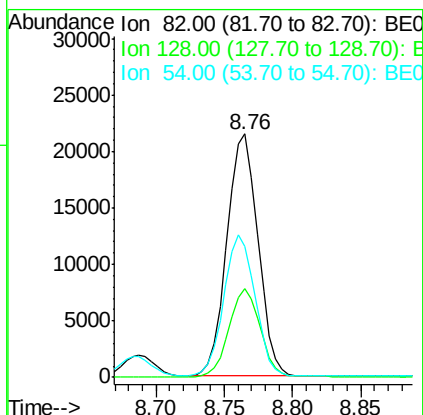
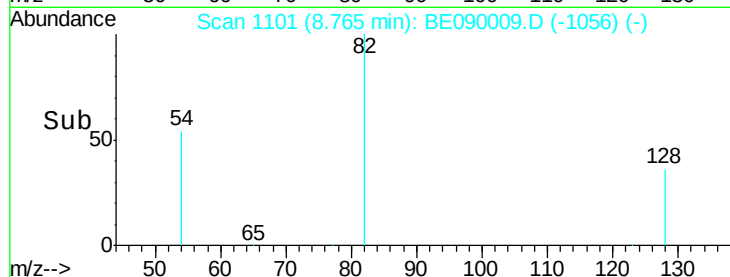
X1SS0520624-150625



Tgt Ion	82	Resp	33842
Ion Ratio	Lower	Upper	
82	100		
128	36.3	28.0	42.0
54	54.0	47.6	71.4

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#9

Naphthalene

Concen: 0.04 ng

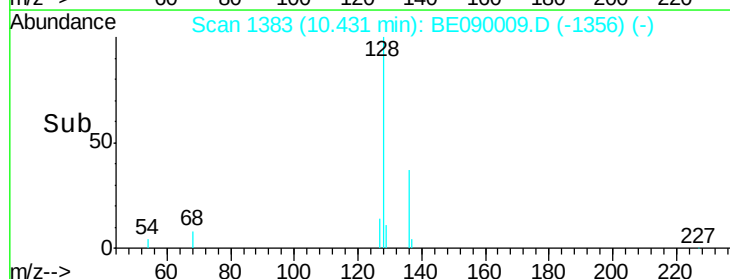
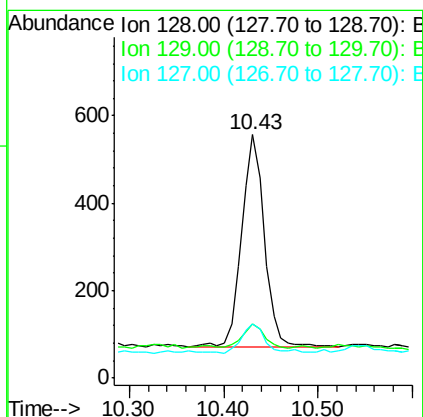
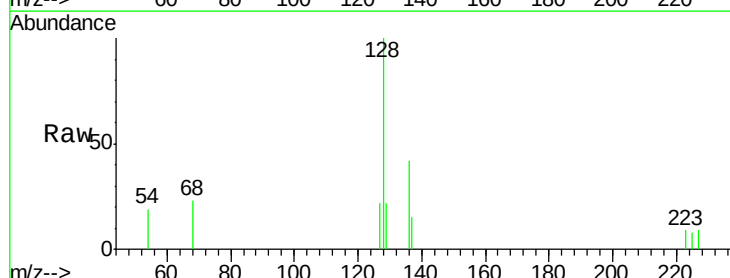
RT: 10.43 min Scan# 1383

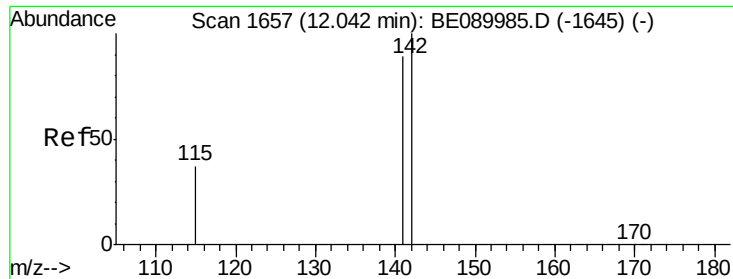
Delta R.T. 0.00 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

Tgt Ion	128	Resp	823
Ion Ratio	Lower	Upper	
128	100		
129	22.4	9.3	13.9#
127	22.3	10.2	15.4#





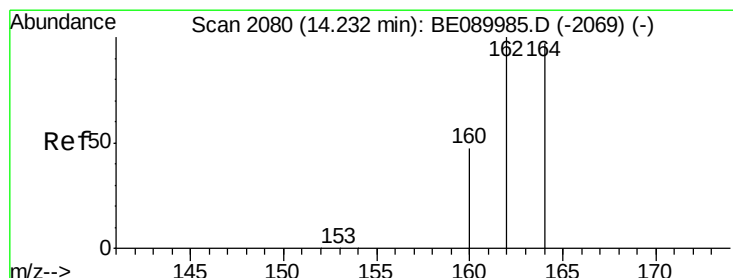
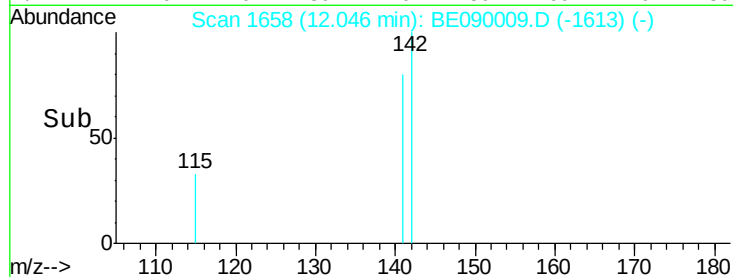
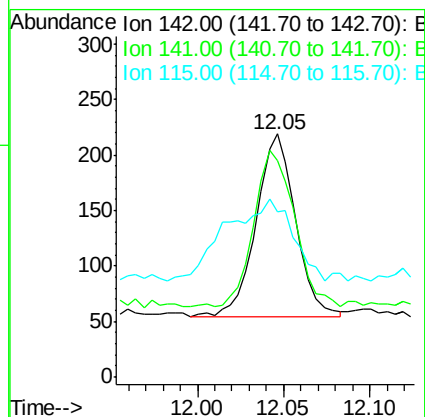
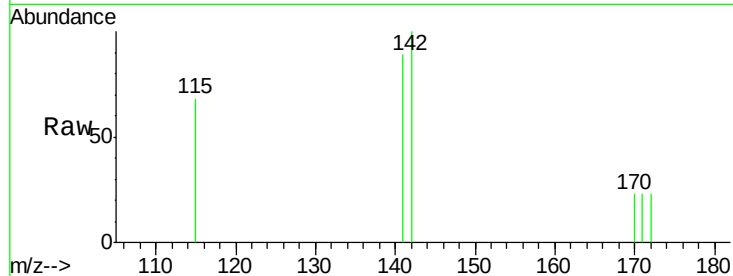
#11
2-Methylnaphthalene
Concen: 0.02 ng
RT: 12.05 min Scan# 1658
Delta R.T. 0.00 min
Lab File: BE090009.D
Acq: 30 Jun 2015 8:54

Instrument :
BNA_E
ClientSampleId :
X1SS0520624-150625

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.0	71.3	106.9
115	68.0	30.4	45.6

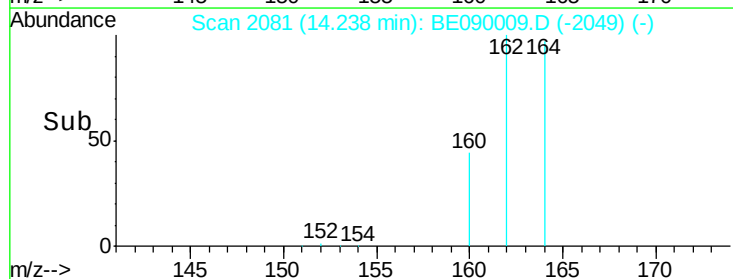
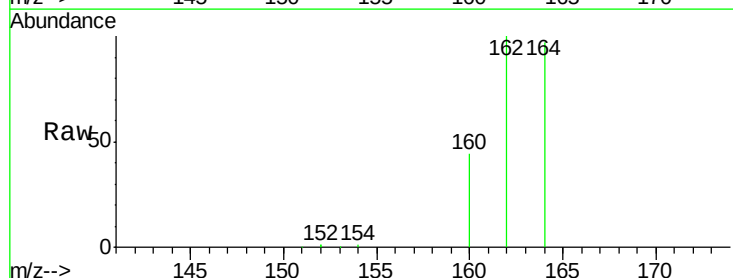
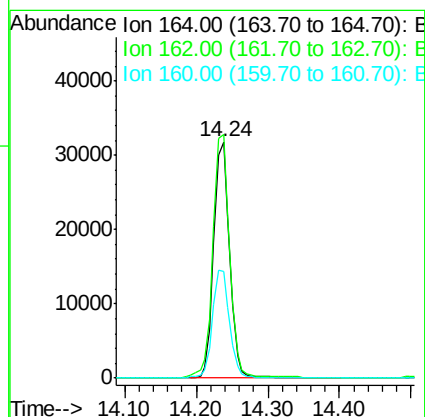
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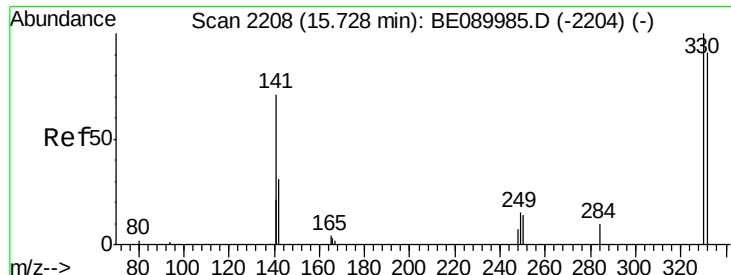
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.24 min Scan# 2081
Delta R.T. 0.01 min
Lab File: BE090009.D
Acq: 30 Jun 2015 8:54

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.9	82.2	123.4
160	45.3	39.0	58.6





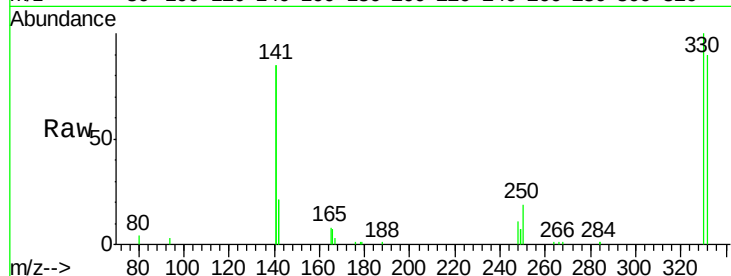
#13
 2,4,6-Tribromophenol
 Concen: 12.86 ng
 RT: 15.73 min Scan# 2208
 Delta R.T. -0.00 min
 Lab File: BE090009.D
 Acq: 30 Jun 2015 8:54

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0520624-150625

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.1	76.4	114.6
141	154.7	130.3	195.5

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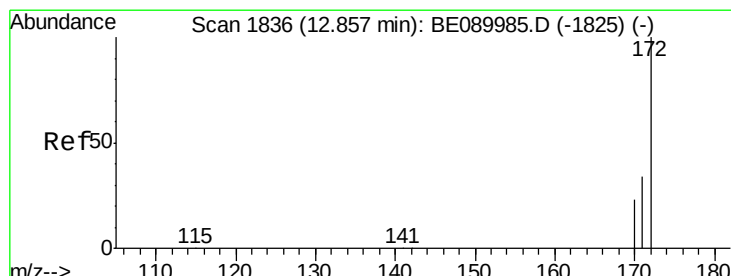
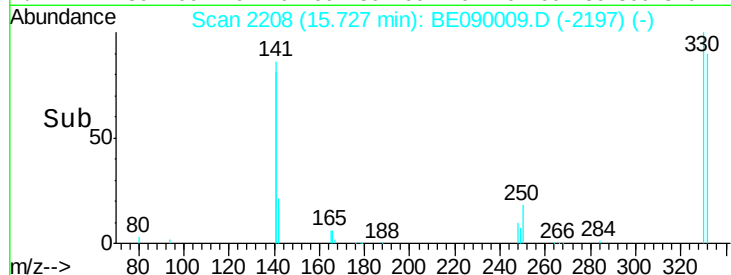
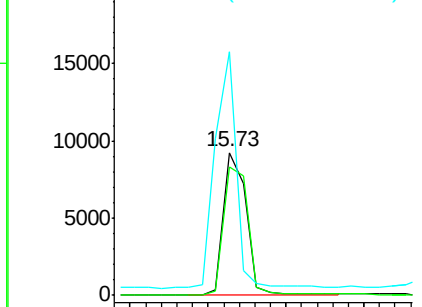


Abundance

Ion 329.80 (329.50 to 330.50): E

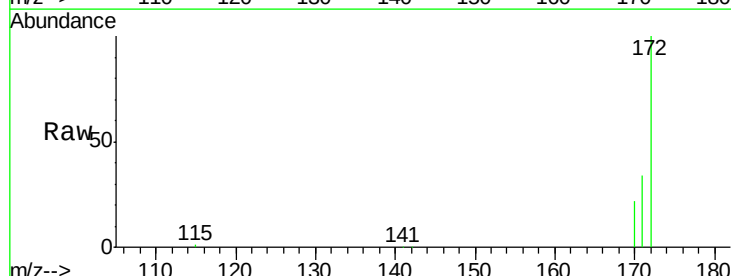
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#14
 2-Fluorobiphenyl
 Concen: 4.93 ng
 RT: 12.86 min Scan# 1837
 Delta R.T. 0.00 min
 Lab File: BE090009.D
 Acq: 30 Jun 2015 8:54

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.1	27.8	41.6
170	22.2	18.3	27.5

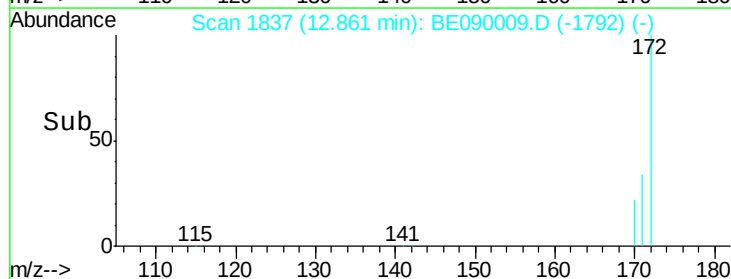
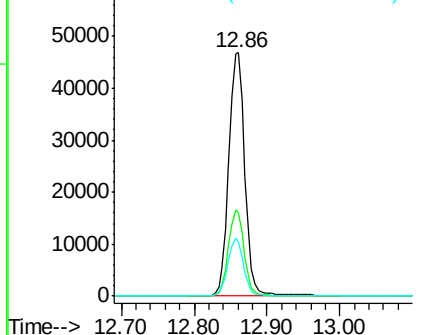


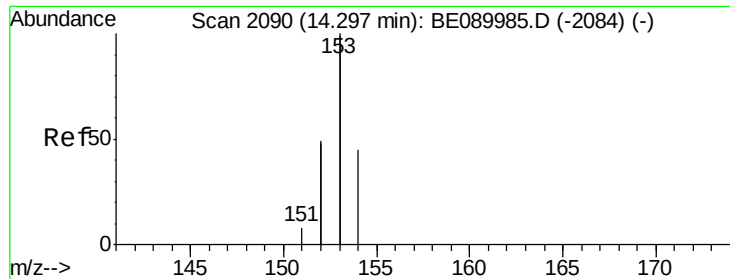
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#16

Acenaphthene

Concen: 0.05 ng

RT: 14.30 min Scan# 2090

Delta R.T. -0.00 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

Instrument :

BNA_E

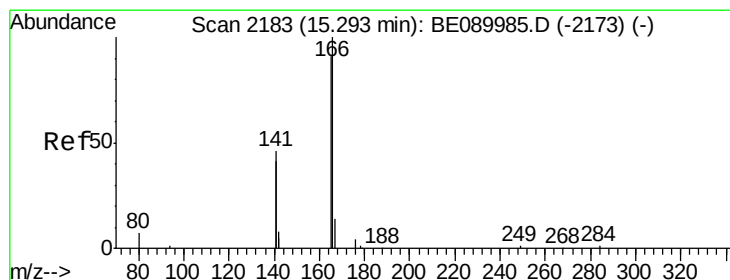
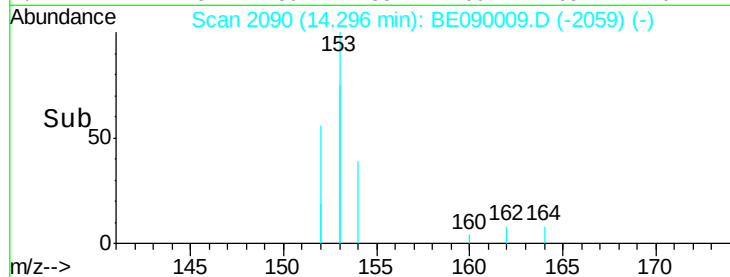
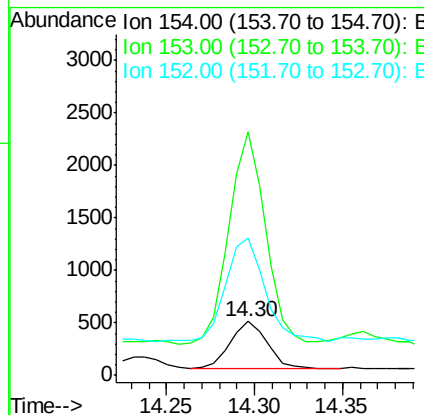
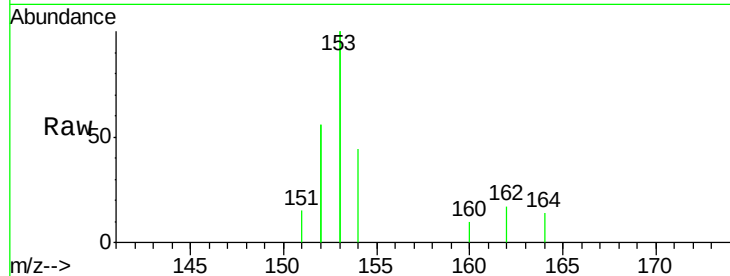
ClientSampleId :

X1SS0520624-150625

Tgt Ion:	154	Resp:	657
Ion Ratio	Lower	Upper	
154	100		
153	449.2	358.6	538.0
152	228.0	189.6	284.4

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#17

Fluorene

Concen: 0.04 ng

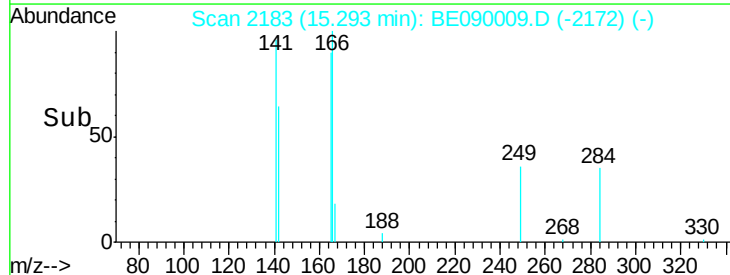
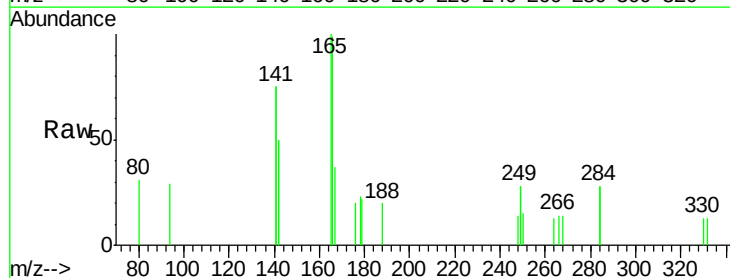
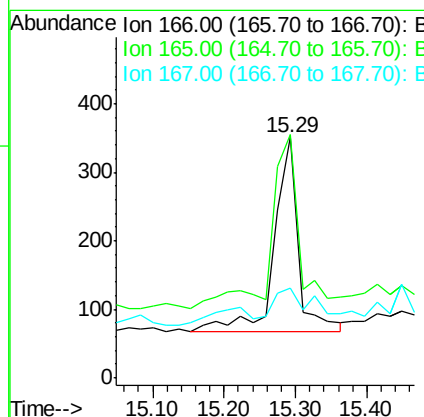
RT: 15.29 min Scan# 2183

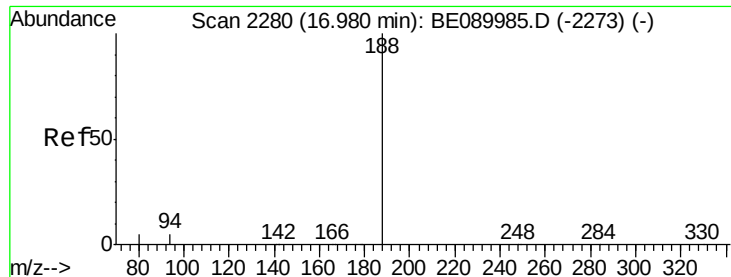
Delta R.T. -0.00 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

Tgt Ion:	166	Resp:	650
Ion Ratio	Lower	Upper	
166	100		
165	109.2	79.0	118.6
167	24.0	11.8	17.8#





#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.98 min Scan# 2280

Delta R.T. -0.00 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

Instrument :

BNA_E

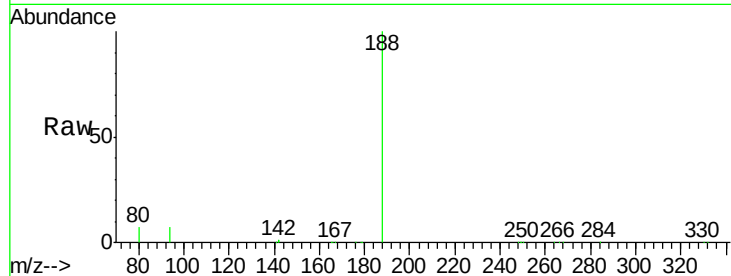
ClientSampleId :

X1SS0520624-150625

Tgt Ion	Ratio	Resp Lower	Upper
188	100		
94	6.7	4.1	6.1#
80	7.0	4.2	6.2#

Manual Integrations
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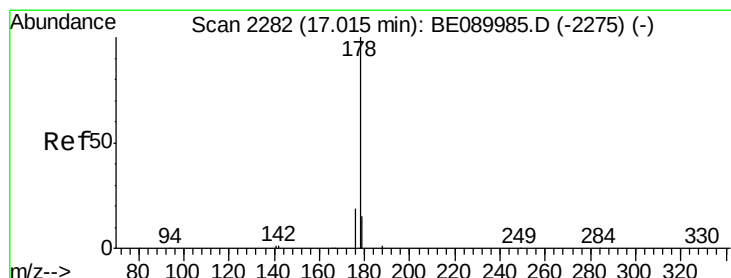
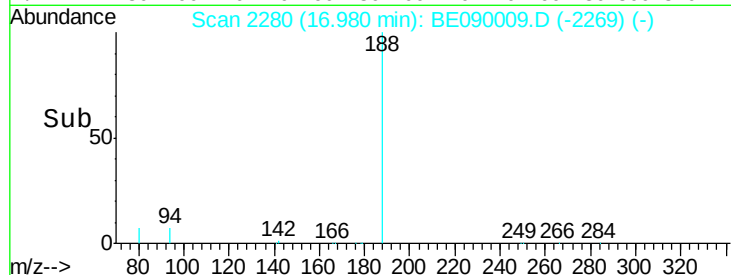
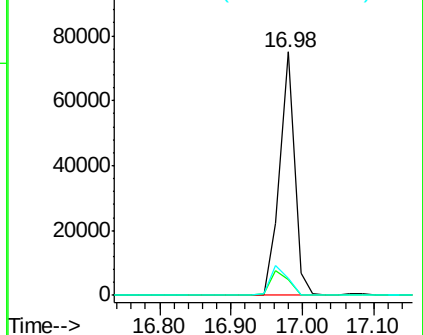
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#22

Phenanthrene

Concen: 0.59 ng

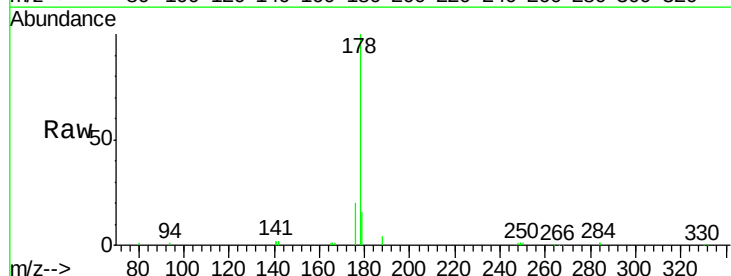
RT: 17.01 min Scan# 2282

Delta R.T. -0.00 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

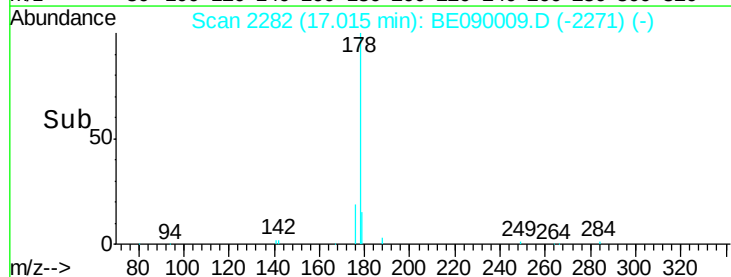
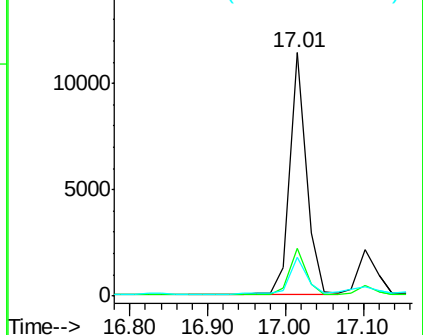
Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.1	15.3	22.9
179	16.6	12.4	18.6

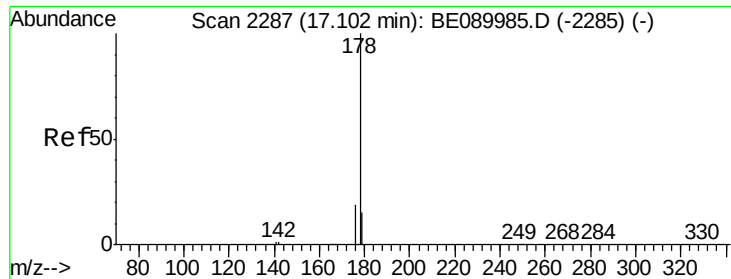


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Anthracene

Concen: 0.13 ng m

RT: 17.10 min Scan# 2287

Delta R.T. -0.00 min

Lab File: BE090009.D

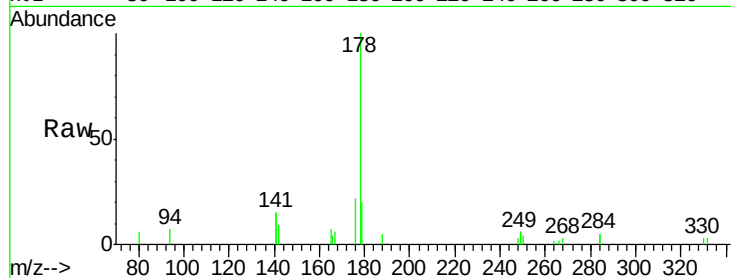
Acq: 30 Jun 2015 8:54

Instrument :

BNA_E

ClientSampleId :

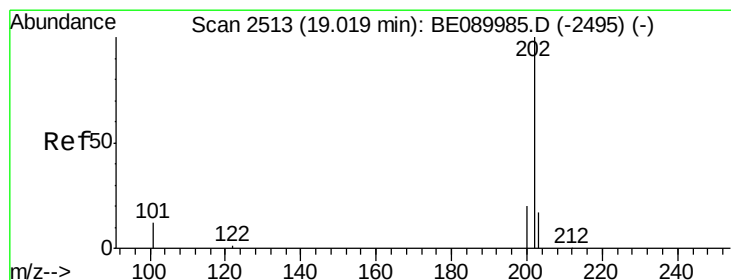
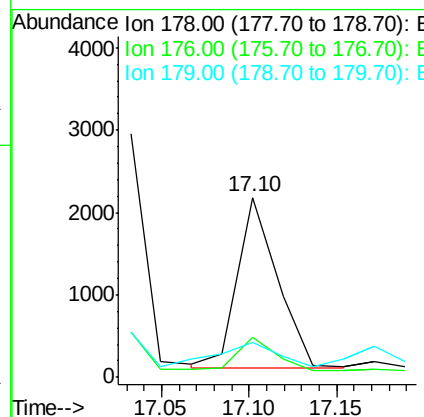
X1SS0520624-150625



Tgt Ion	Ratio	Lower	Upper
178	100		
176	90.8	14.7	22.1#
179	77.0	12.1	18.1#

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6/30/2015 4:55:42 PM



#24

Fluoranthene

Concen: 1.74 ng

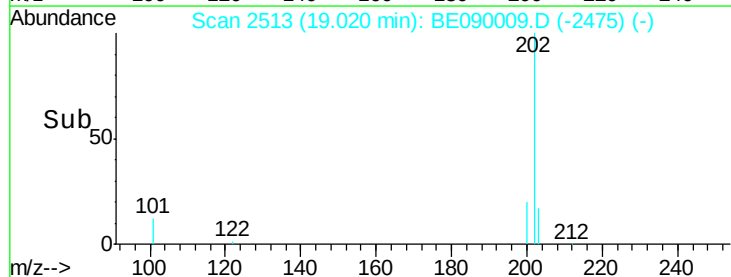
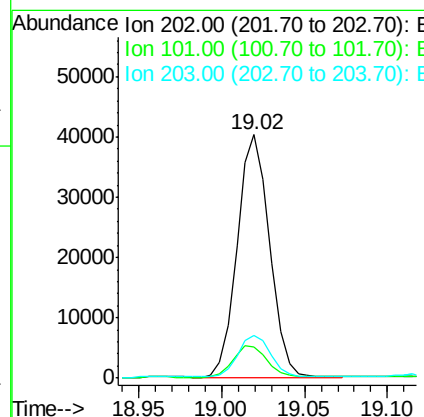
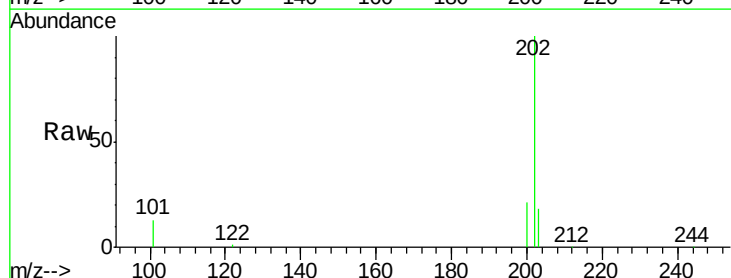
RT: 19.02 min Scan# 2513

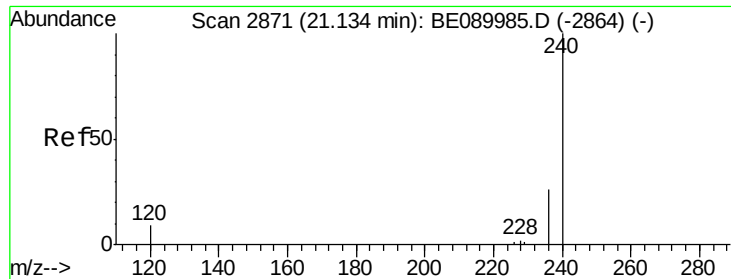
Delta R.T. 0.00 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.1	10.6	15.8
203	17.4	13.8	20.6





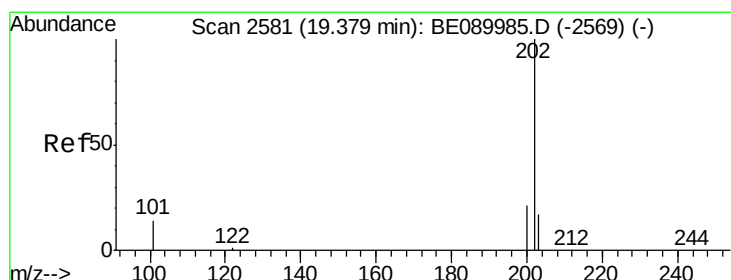
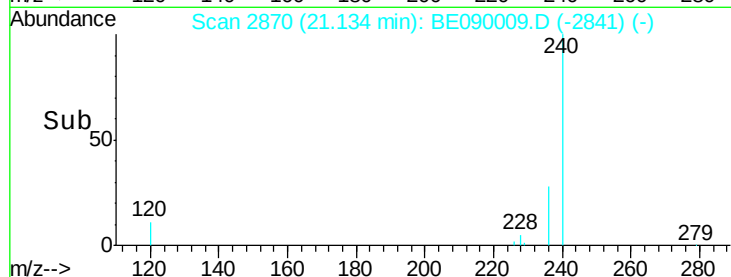
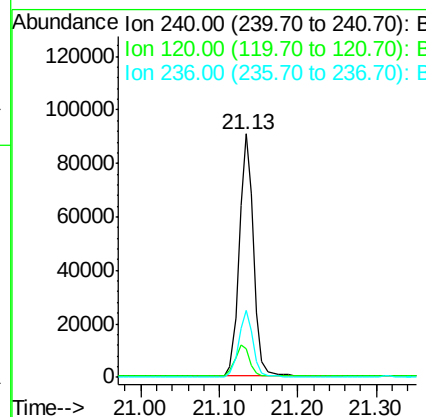
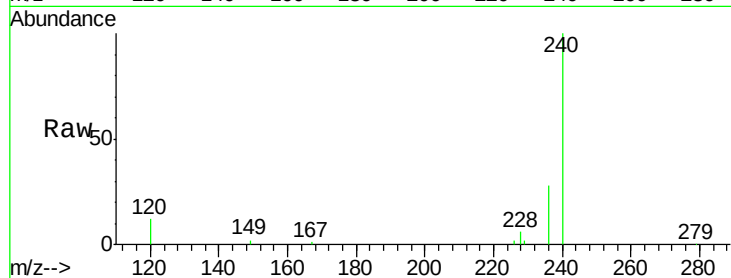
#25
Chrysene-d12
Concen: 5.00 ng
RT: 21.13 min Scan# 2870
Delta R.T. -0.00 min
Lab File: BE090009.D
Acq: 30 Jun 2015 8:54

Instrument :
BNA_E
ClientSampleId :
X1SS0520624-150625

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	115299		
120	11.9	6.9	10.3#	
236	27.6	20.8	31.2	

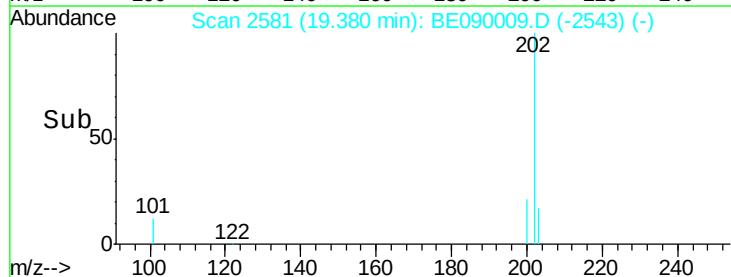
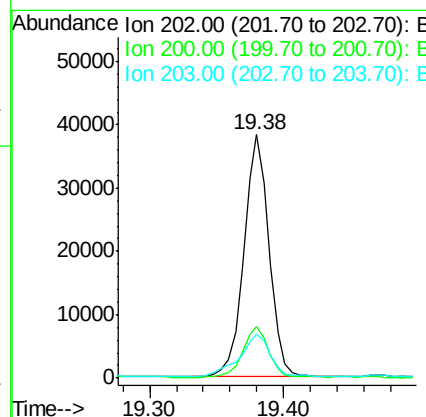
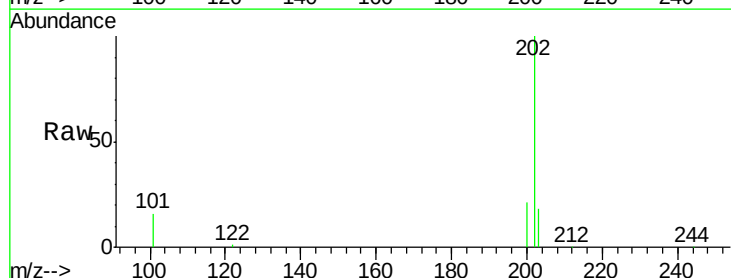
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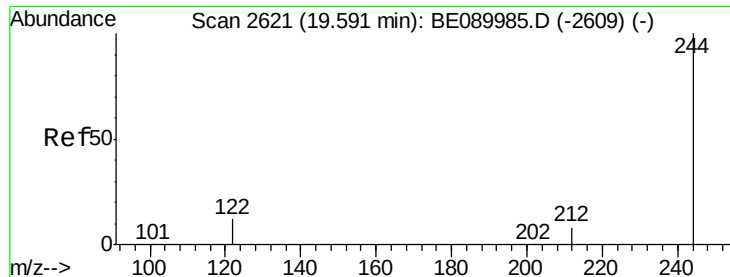
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6/30/2015 4:55:42 PM



#26
Pyrene
Concen: 1.82 ng
RT: 19.38 min Scan# 2581
Delta R.T. 0.00 min
Lab File: BE090009.D
Acq: 30 Jun 2015 8:54

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	49955		
200	21.3	16.8	25.2	
203	21.8	13.9	20.9#	





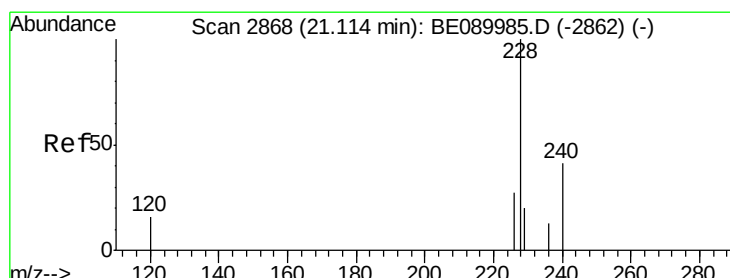
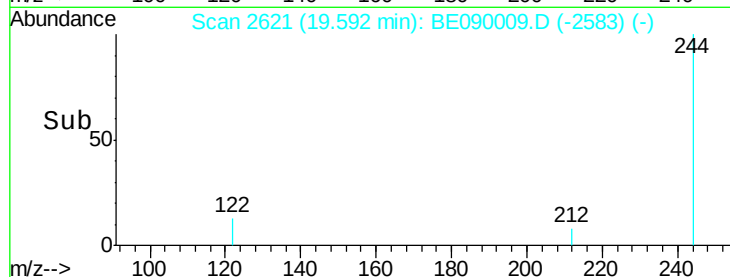
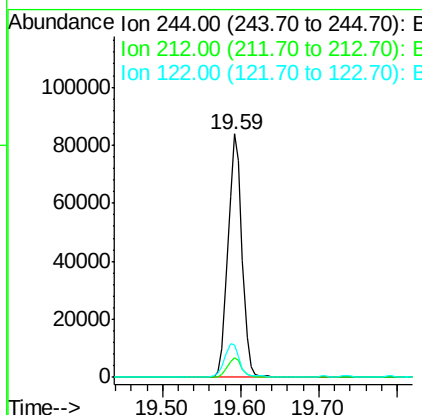
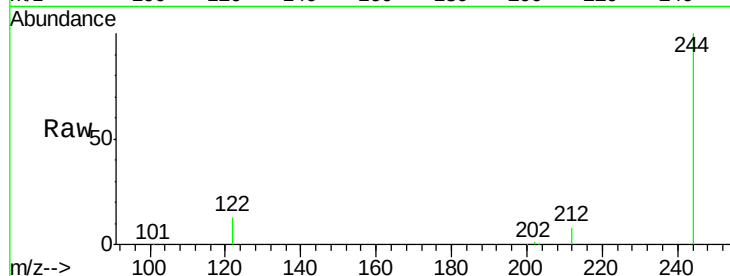
#27
 Terphenyl-d14
 Concen: 5.40 ng
 RT: 19.59 min Scan# 2621
 Delta R.T. 0.00 min
 Lab File: BE090009.D
 Acq: 30 Jun 2015 8:54

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0520624-150625

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	8.3	6.6	9.8
122	13.3	9.8	14.8

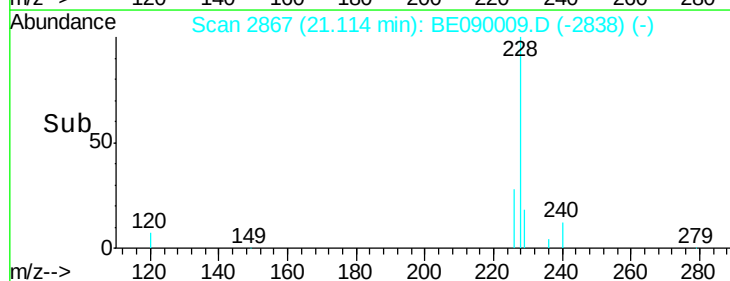
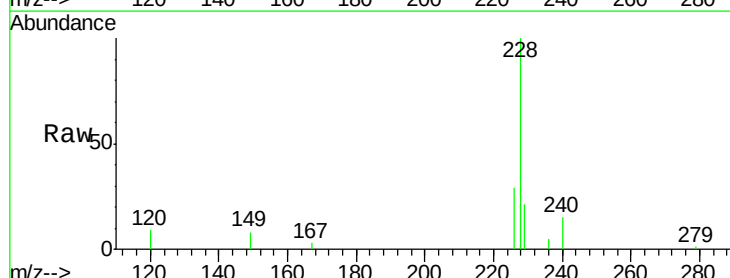
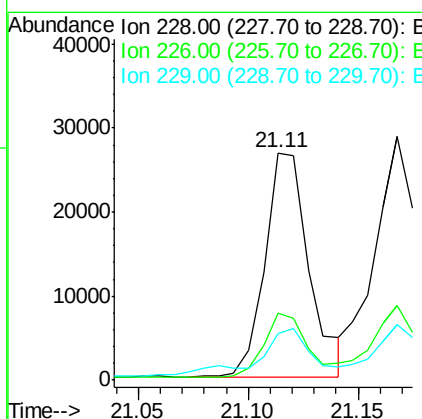
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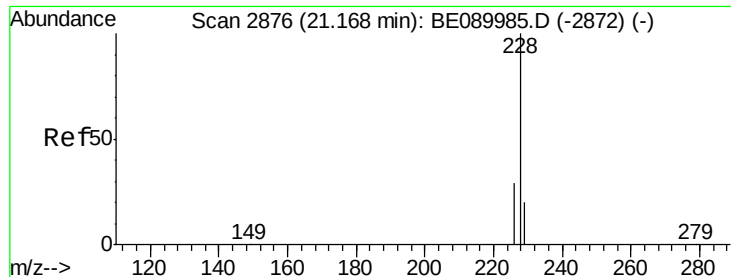
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#28
 Benzo(a)anthracene
 Concen: 1.29 ng
 RT: 21.11 min Scan# 2867
 Delta R.T. -0.00 min
 Lab File: BE090009.D
 Acq: 30 Jun 2015 8:54

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	29.4	21.8	32.6
229	20.6	15.8	23.6





#29

Chrysene

Concen: 1.29 ng

RT: 21.17 min Scan# 2875

Delta R.T. -0.00 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

Instrument :

BNA_E

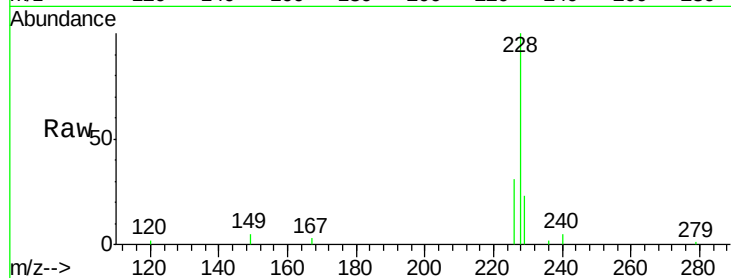
ClientSampleId :

X1SS0520624-150625

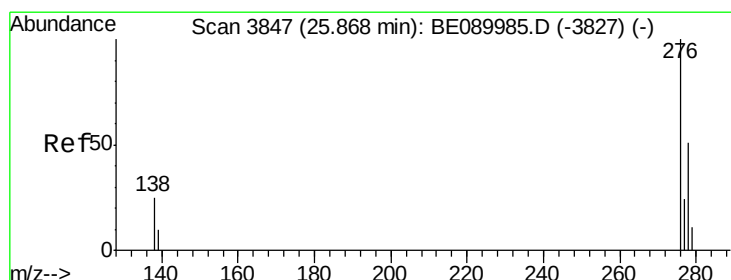
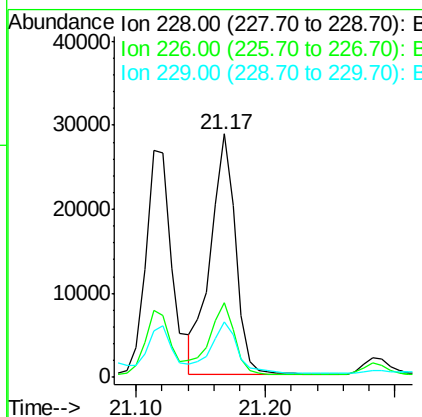
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Tgt Ion	Ratio	Resp	Lower	Upper
228	100	38681		
226	30.5	23.4	35.0	
229	22.9	16.2	24.2	



#31

Indeno(1,2,3-cd)pyrene

Concen: 0.94 ng

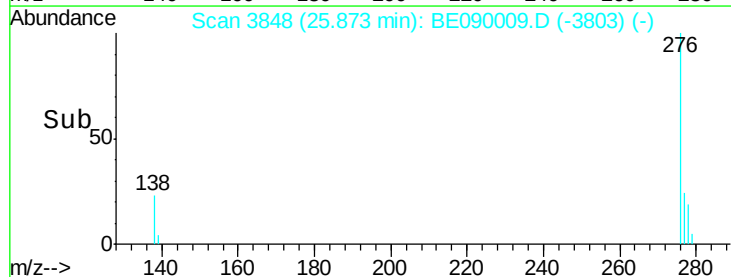
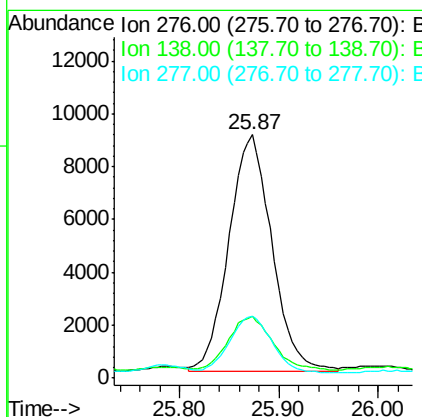
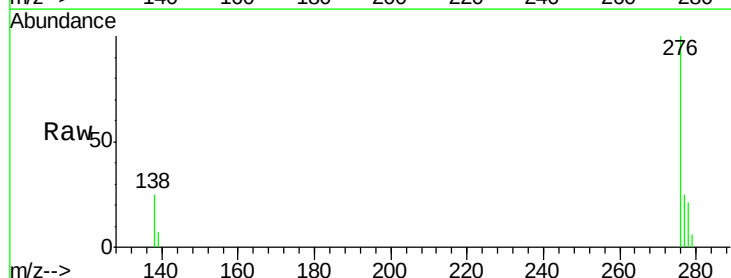
RT: 25.87 min Scan# 3848

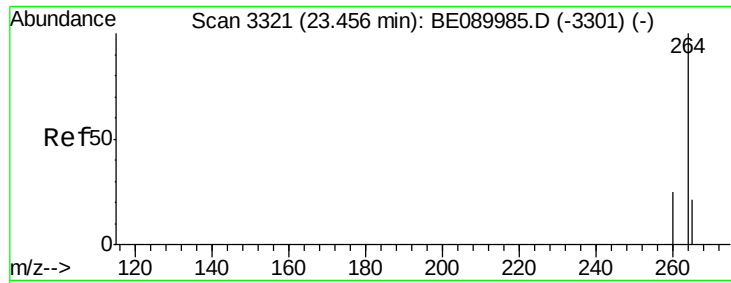
Delta R.T. 0.00 min

Lab File: BE090009.D

Acq: 30 Jun 2015 8:54

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	26955		
138	22.8	21.3	31.9	
277	23.8	19.7	29.5	





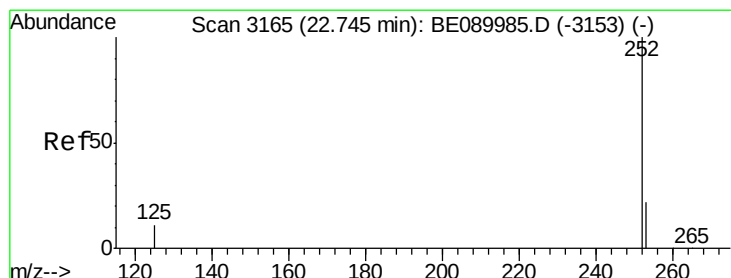
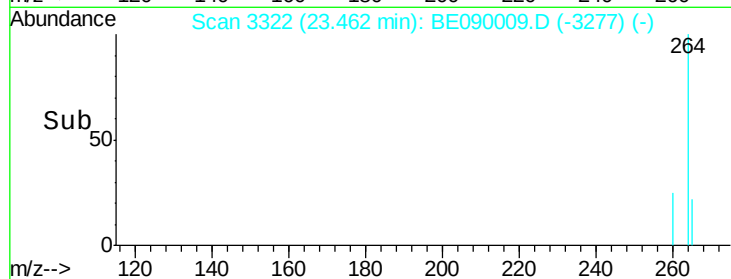
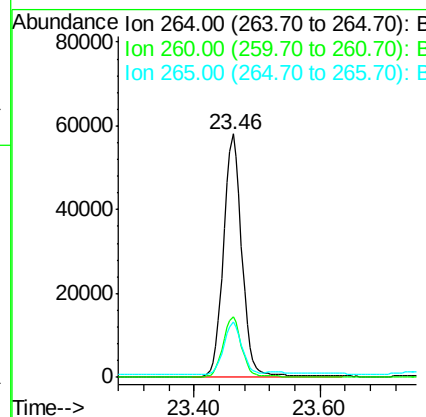
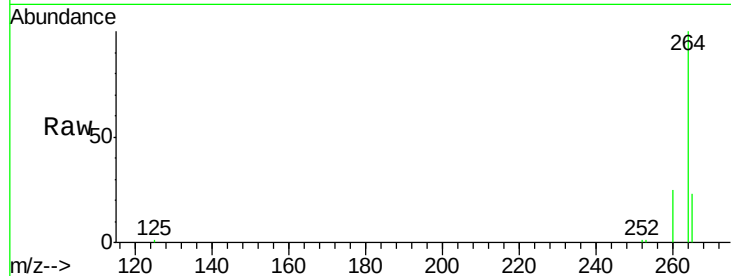
#32
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.46 min Scan# 3322
 Delta R.T. 0.01 min
 Lab File: BE090009.D
 Acq: 30 Jun 2015 8:54

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0520624-150625

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	25.0	20.2	30.2
265	22.6	17.1	25.7

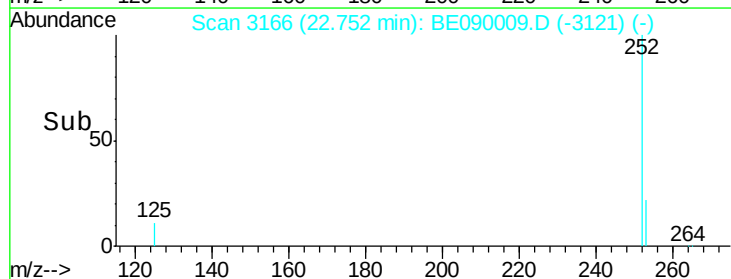
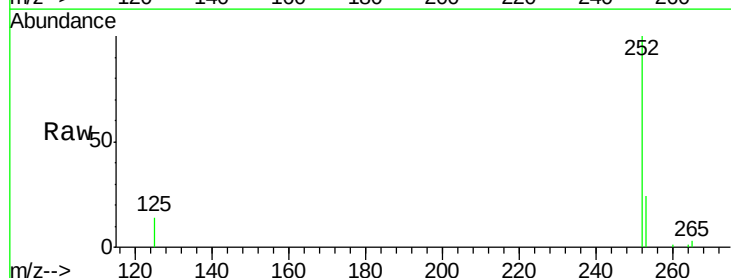
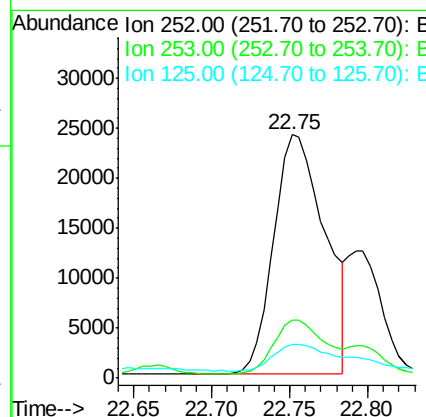
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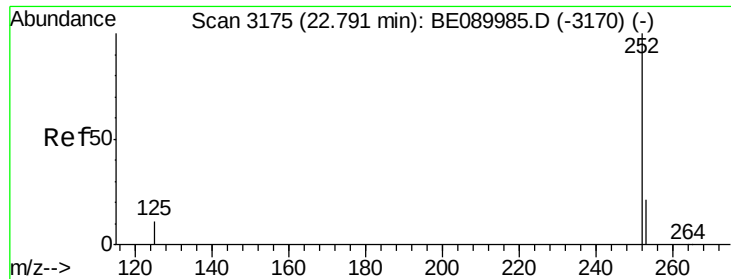
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#33
 Benzo(b)fluoranthene
 Concen: 2.13 ng
 RT: 22.75 min Scan# 3166
 Delta R.T. 0.01 min
 Lab File: BE090009.D
 Acq: 30 Jun 2015 8:54

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	23.9	17.8	26.8
125	13.9	9.0	13.4#





#34

Benzo(k)fluoranthene

Concen: 0.67 ng m

RT: 22.79 min Scan# 3175

Delta R.T. 0.00 min

Lab File: BE090009.D

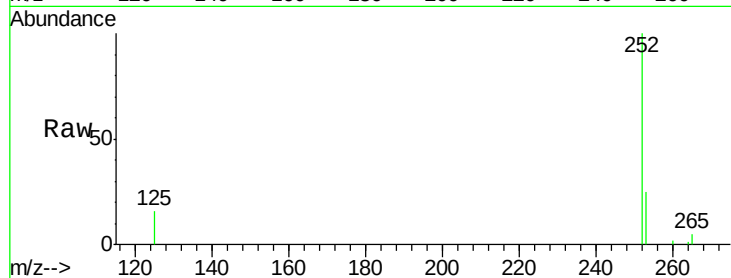
Acq: 30 Jun 2015 8:54

Instrument :

BNA_E

ClientSampleId :

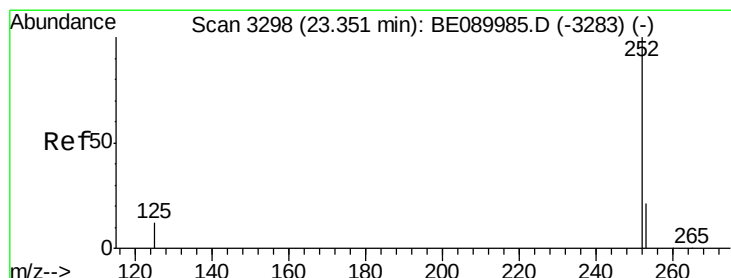
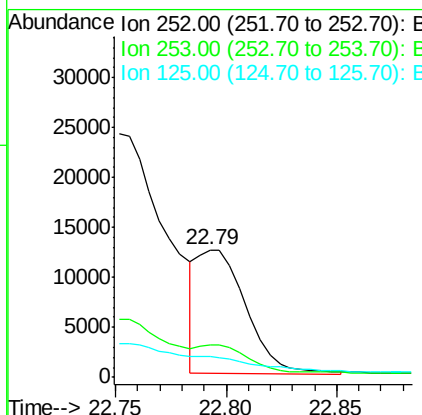
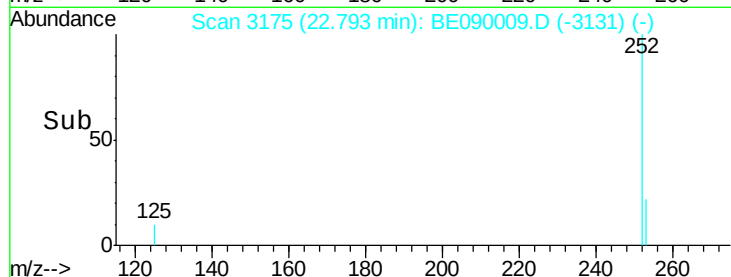
X1SS0520624-150625



Tgt Ion:	252	Resp:	19233
Ion Ratio	Lower	Upper	
252	100		
253	25.2	17.5	26.3
125	16.3	9.5	14.3

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#35

Benzo(a)pyrene

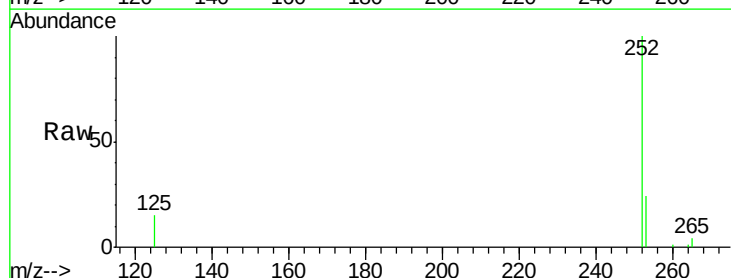
Concen: 1.58 ng

RT: 23.35 min Scan# 3298

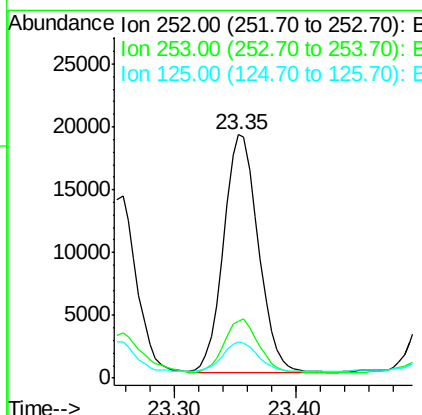
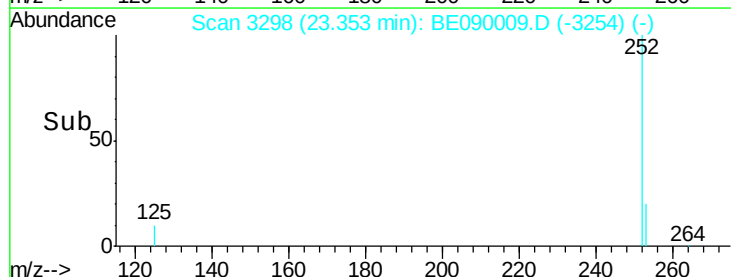
Delta R.T. 0.00 min

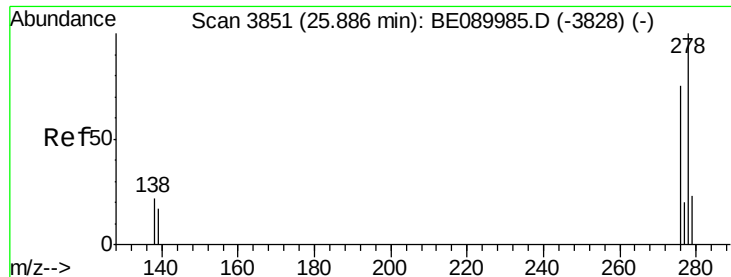
Lab File: BE090009.D

Acq: 30 Jun 2015 8:54



Tgt Ion:	252	Resp:	37642
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.4	26.2
125	14.9	10.5	15.7





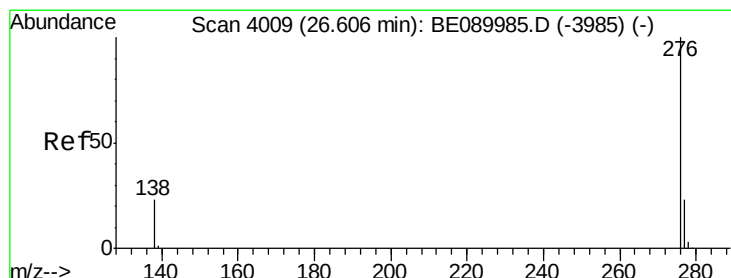
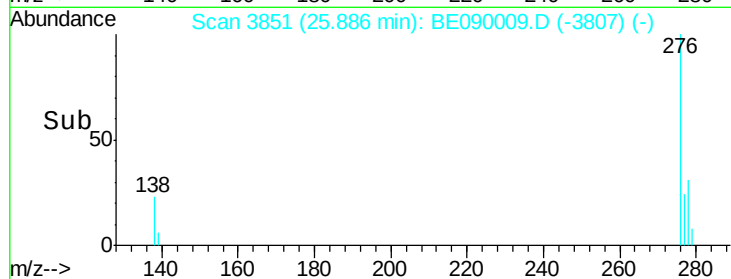
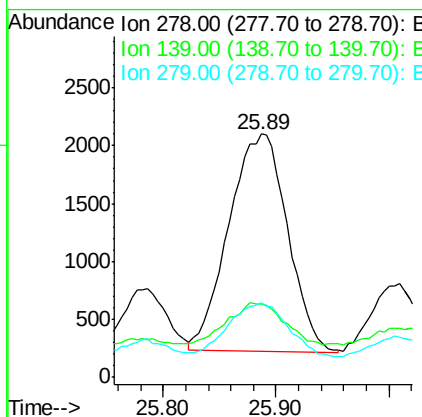
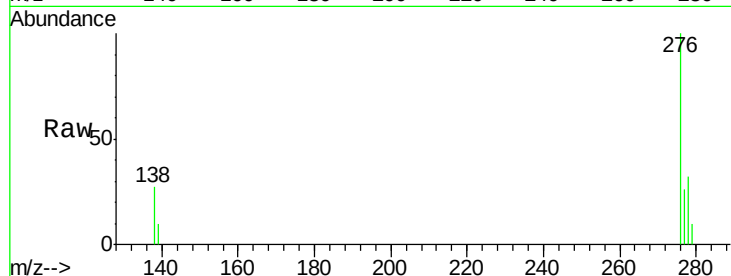
#36
Dibenzo(a,h)anthracene
Concen: 0.27 ng
RT: 25.89 min Scan# 3851
Delta R.T. 0.00 min
Lab File: BE090009.D
Acq: 30 Jun 2015 8:54

Instrument :
BNA_E
ClientSampleId :
X1SS0520624-150625

Tgt Ion	Ratio	Lower	Upper
278	100		
139	30.0	14.4	21.6#
279	30.9	19.0	28.6#

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#37
Benzo(g,h,i)perylene
Concen: 1.11 ng
RT: 26.62 min Scan# 4011
Delta R.T. 0.01 min
Lab File: BE090009.D
Acq: 30 Jun 2015 8:54

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.9	18.8	28.2
138	25.4	18.6	27.8

