

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102114\
 Data File : BE088170.D
 Acq On : 22 Oct 2014 8:01
 Operator : TP/JJ
 Sample : F4303-16DL 2X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS06-1014DL

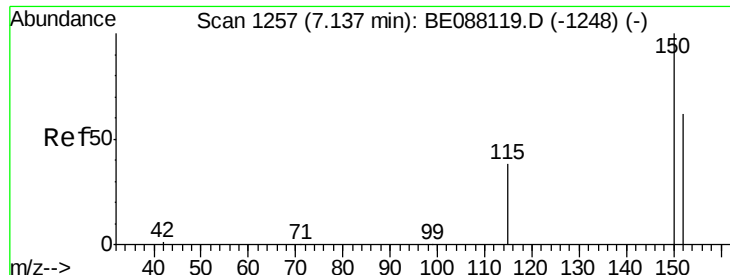
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Quant Time: Oct 22 11:14:59 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 21 02:11:14 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	24839	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	96087	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	50038	5.00	ng	0.00
12) Phenanthrene-d10	12.97	188	95056	5.00	ng	0.00
16) Chrysene-d12	18.38	240	51868	5.00	ng	0.00
22) Perylene-d12	21.44	264	45328	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	248400	35.86	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	327559	23.70	ng	0.00
18) Terphenyl-d14	16.15	244	251486	30.13	ng	0.00
Target Compounds						Qvalue
5) Naphthalene	8.72	128	2337	0.12	ng	97
6) 2-Methylnaphthalene	9.57	142	772	0.07	ng	# 95
9) Acenaphthylene	10.67	152	2952	0.04	ng	# 76
10) Acenaphthene	10.88	154	3442	0.29	ng	96
11) Fluorene	11.55	166	3517	0.28	ng	99
13) Phenanthrene	13.01	178	204708	2.82	ng	95
14) Anthracene	13.09	178	51559m	0.70	ng	
15) Fluoranthene	15.25	202	70005	3.87	ng	99
17) Pyrene	15.70	202	58557m	4.15	ng	
19) Benzo(a)anthracene	18.36	228	95971	2.08	ng	98
20) Chrysene	18.44	228	98117	2.17	ng	97
21) Indeno(1,2,3-cd)pyrene	23.64	276	52288	1.04	ng	# 83
23) Benzo(b)fluoranthene	20.69	252	25816	2.39	ng	98
24) Benzo(k)fluoranthene	20.74	252	11955	1.03	ng	97
25) Benzo(a)pyrene	21.32	252	18055	1.82	ng	98
26) Dibenzo(a,h)anthracene	23.72	278	2481	0.25	ng	# 89
27) Benzo(g,h,i)perylene	24.26	276	53912	1.25	ng	99

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088170.D

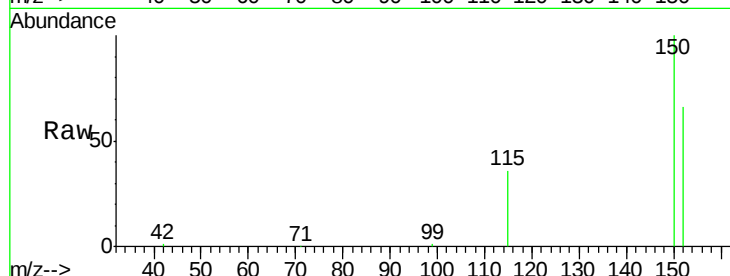
Acq: 22 Oct 2014 8:01

Instrument :

BNA_E

ClientSampleId :

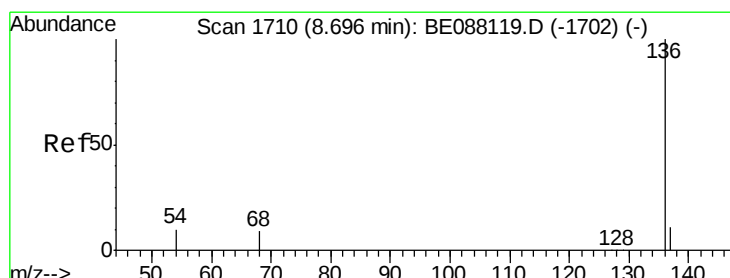
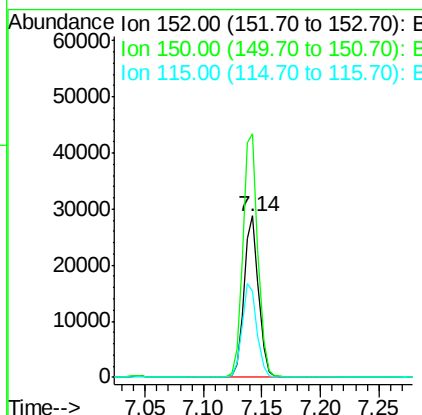
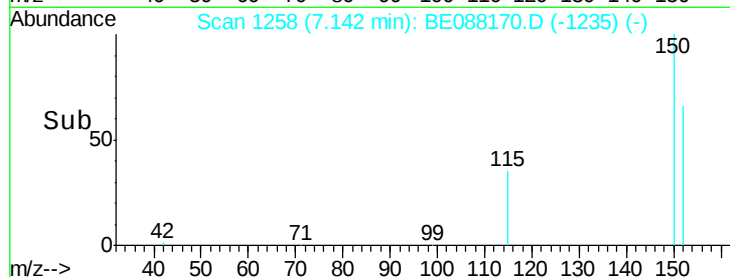
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Tgt Ion:	152	Resp:	24839
Ion Ratio	Lower	Upper	
152	100		
150	150.7	129.2	193.8
115	53.6	49.3	73.9

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#3

Naphthalene-d8

Concen: 5.00 ng

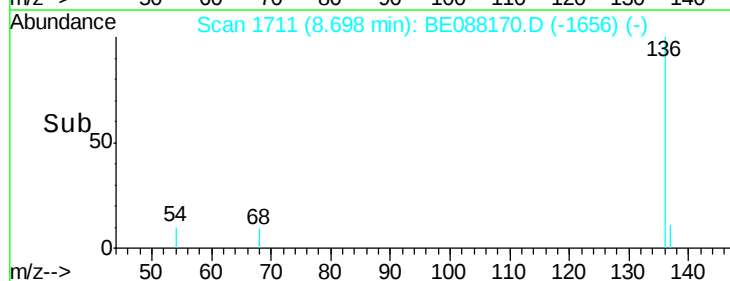
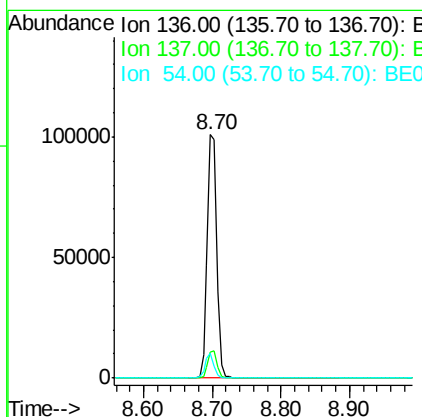
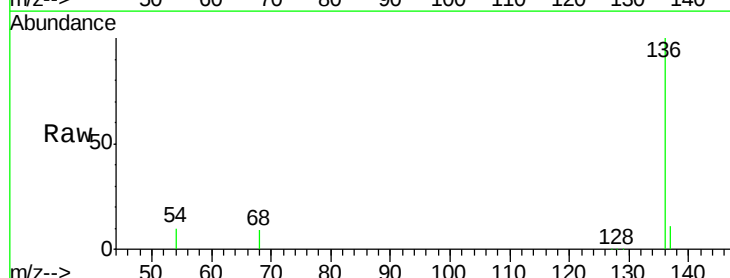
RT: 8.70 min Scan# 1711

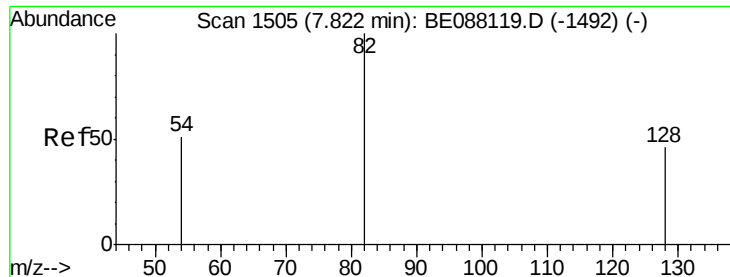
Delta R.T. 0.00 min

Lab File: BE088170.D

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Tgt Ion:	136	Resp:	96087
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.6	12.8
54	10.2	7.7	11.5





#4

Nitrobenzene-d5

Concen: 35.86 ng

RT: 7.83 min Scan# 1509

Delta R.T. 0.01 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

Instrument :

BNA_E

ClientSampleId :

YS19-SS06-1014DL

Tgt Ion: 82 Resp: 248400

Ion Ratio Lower Upper

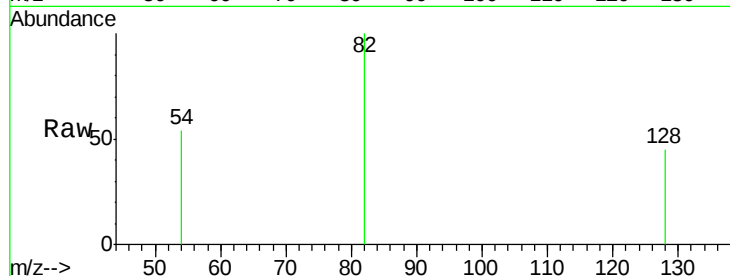
82 100

128 45.4 37.1 55.7

54 54.1 41.1 61.7

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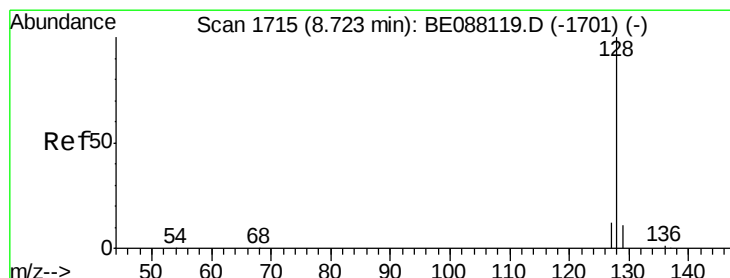
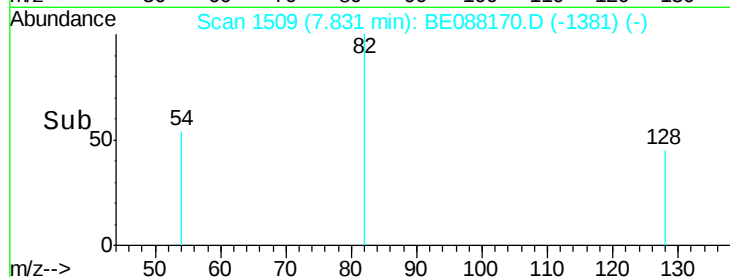
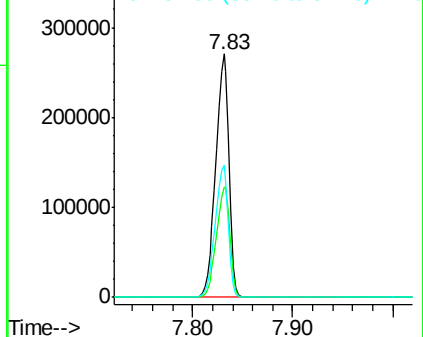
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Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#5

Naphthalene

Concen: 0.12 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

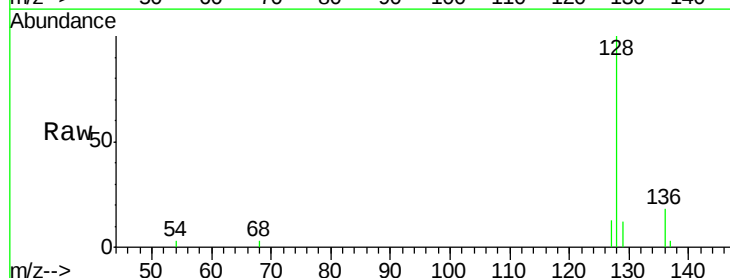
Tgt Ion: 128 Resp: 2337

Ion Ratio Lower Upper

128 100

129 12.4 8.9 13.3

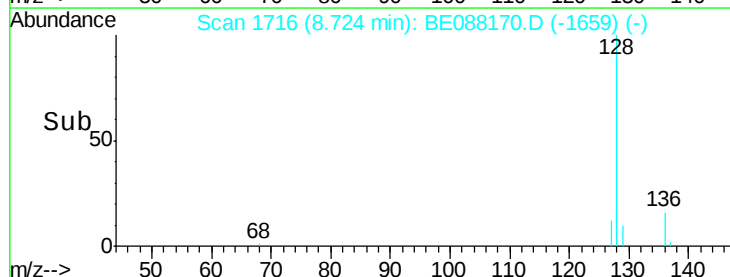
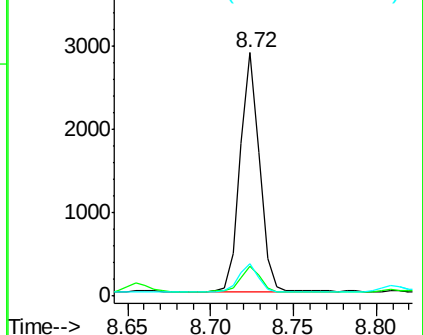
127 13.2 9.7 14.5

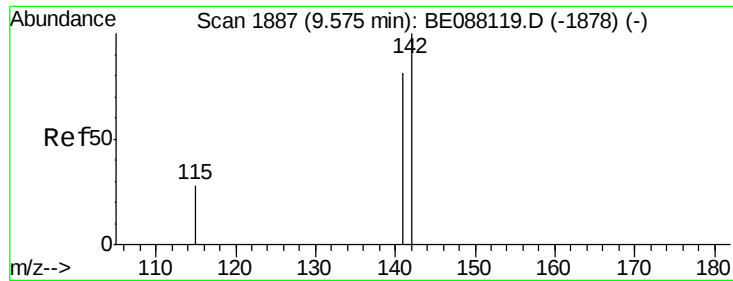


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#6

2-Methylnaphthalene

Concen: 0.07 ng

RT: 9.57 min Scan# 1888

Delta R.T. -0.00 min

Lab File: BE088170.D

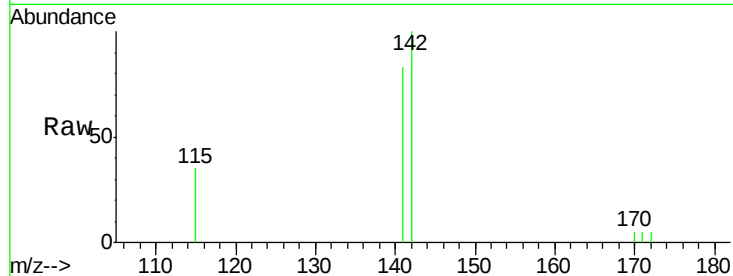
Acq: 22 Oct 2014 8:01

Instrument :

BNA_E

ClientSampleId :

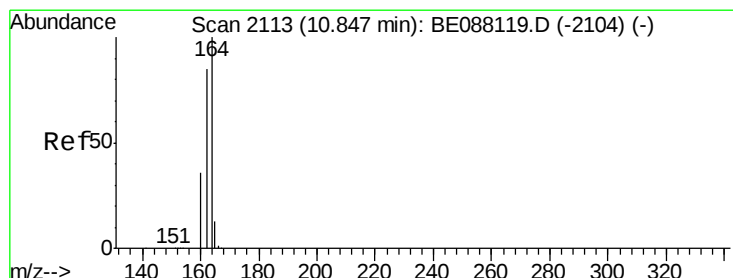
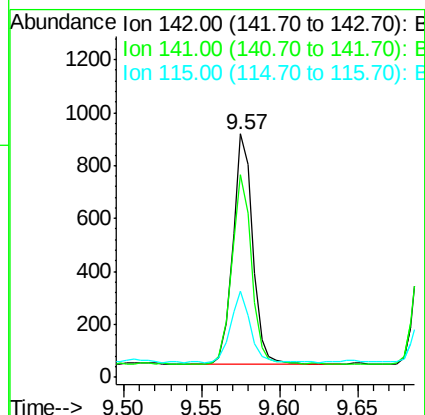
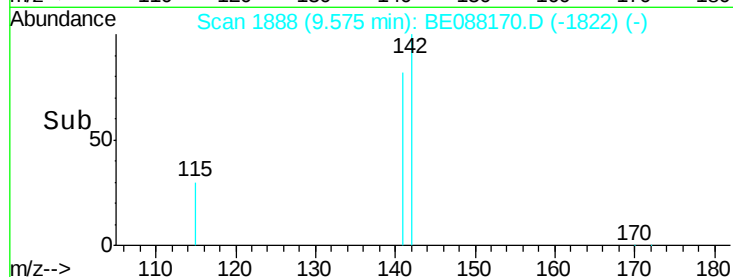
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Tgt Ion:	142	Resp:	772
Ion Ratio	Lower	Upper	
142	100		
141	83.2	64.6	97.0
115	35.1	22.6	34.0#

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#7

Acenaphthene-d10

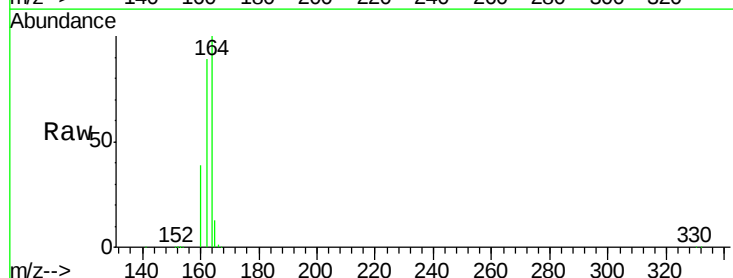
Concen: 5.00 ng

RT: 10.85 min Scan# 2114

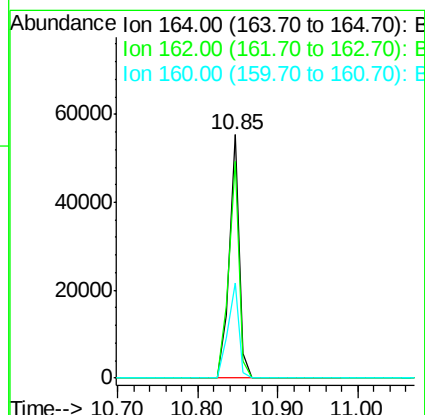
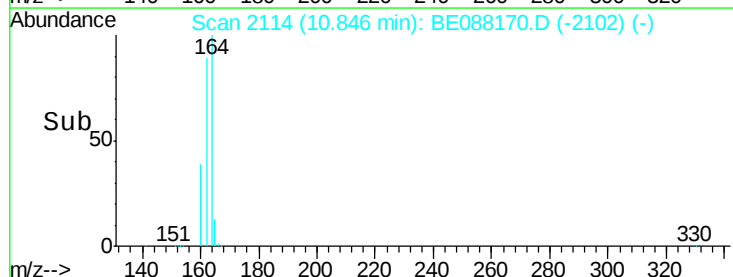
Delta R.T. -0.00 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01



Tgt Ion:	164	Resp:	50038
Ion Ratio	Lower	Upper	
164	100		
162	88.9	68.3	102.5
160	39.2	28.7	43.1





#8

2-Fluorobiphenyl

Concen: 23.70 ng

RT: 10.04 min Scan# 1990

Delta R.T. 0.00 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

Instrument :

BNA_E

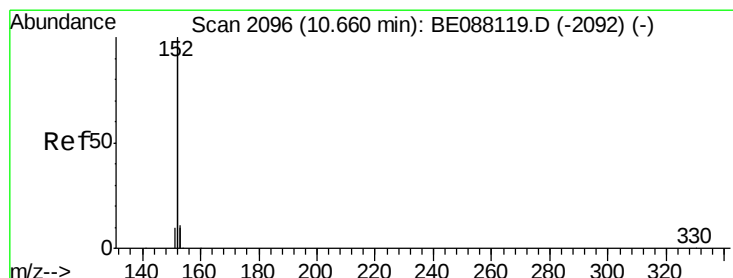
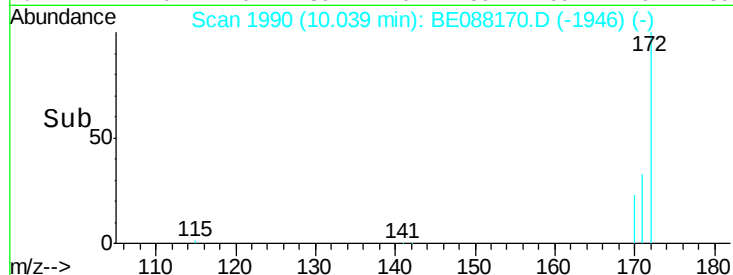
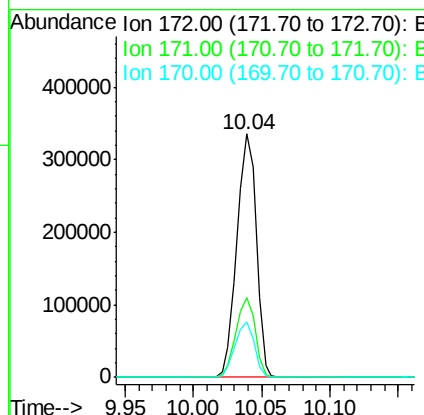
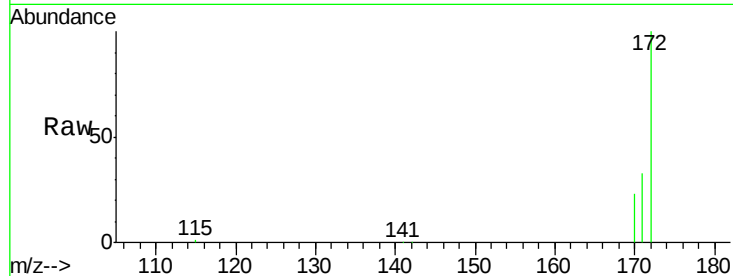
ClientSampleId :

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Tgt Ion:	172	Resp:	327559
Ion Ratio	Lower	Upper	
172	100		
171	33.0	25.4	38.2
170	22.8	17.4	26.2

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#9

Acenaphthylene

Concen: 0.04 ng

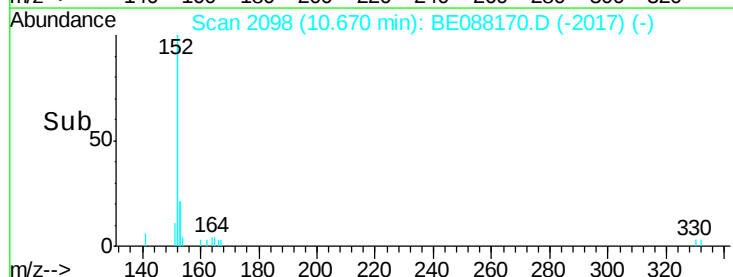
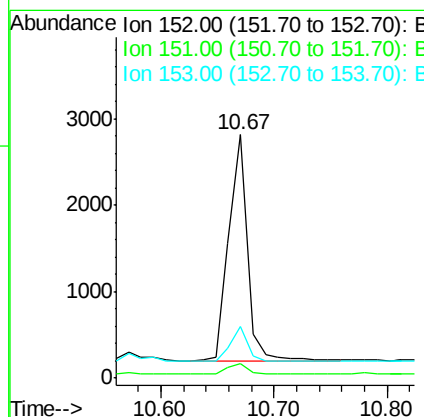
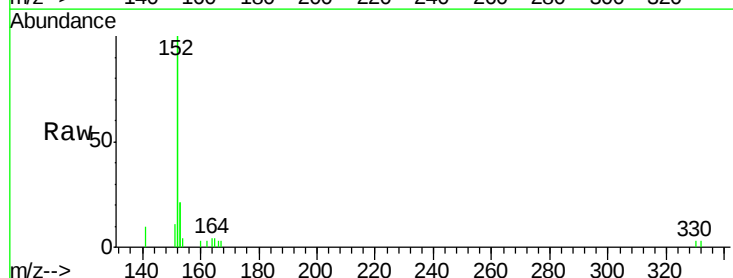
RT: 10.67 min Scan# 2098

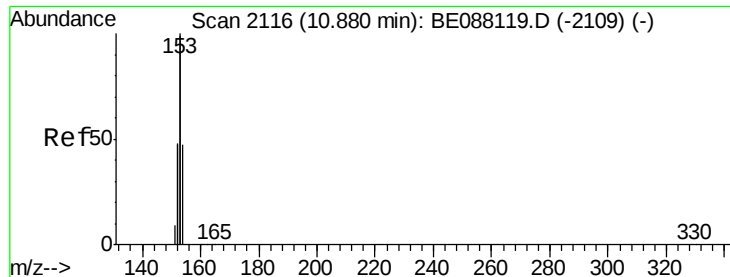
Delta R.T. 0.01 min

Lab File: BE088170.D

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Tgt Ion:	152	Resp:	2952
Ion Ratio	Lower	Upper	
152	100		
151	5.0	3.7	5.5
153	0.0	10.4	15.6#





#10

Acenaphthene

Concen: 0.29 ng

RT: 10.88 min Scan# 2117

Delta R.T. -0.00 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

Instrument :

BNA_E

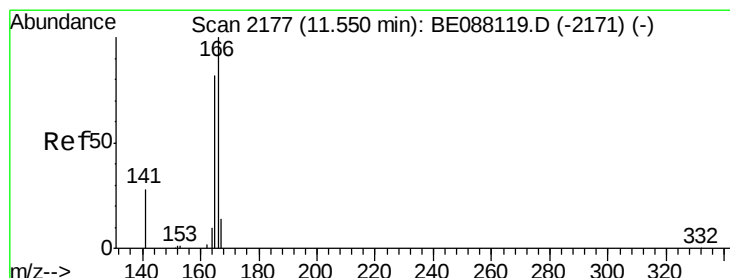
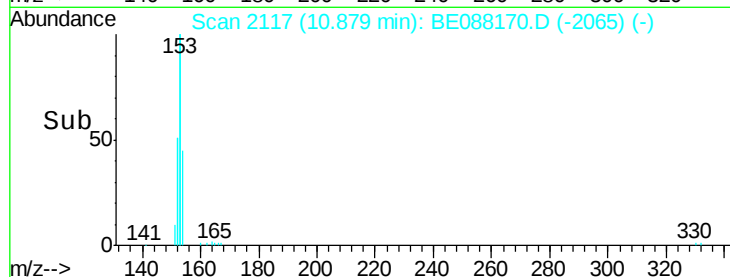
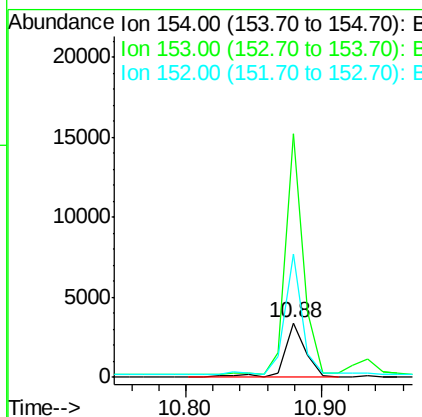
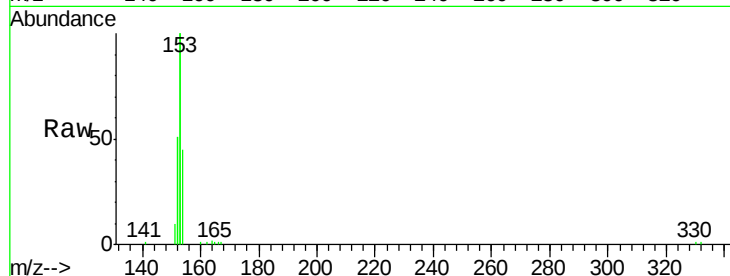
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Tgt Ion:	154	Resp:	3442
Ion Ratio	Lower	Upper	
154	100		
153	396.2	327.8	491.6
152	198.5	157.6	236.4



#11

Fluorene

Concen: 0.28 ng

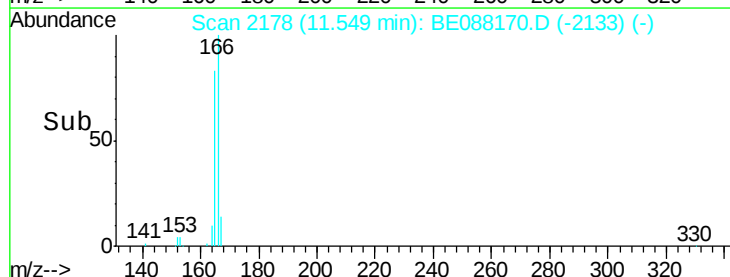
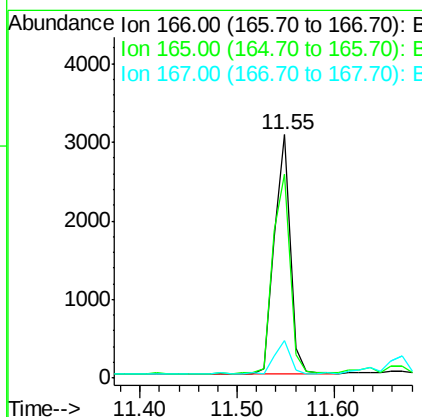
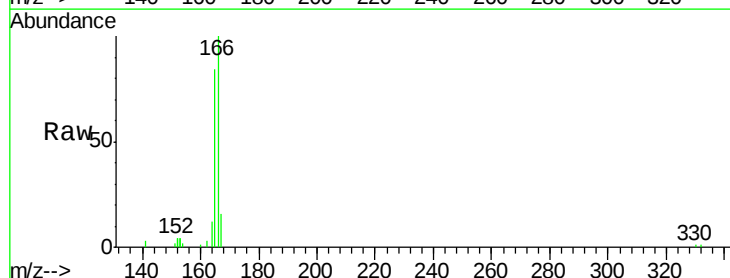
RT: 11.55 min Scan# 2178

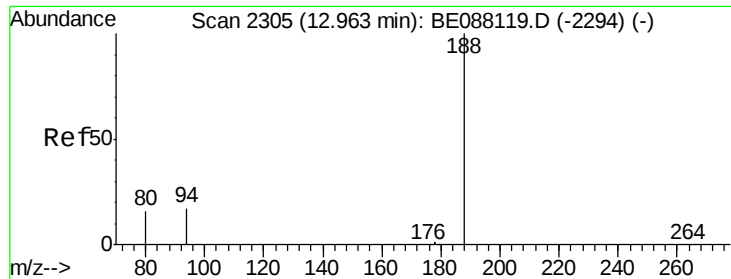
Delta R.T. -0.00 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

Tgt Ion:	166	Resp:	3517
Ion Ratio	Lower	Upper	
166	100		
165	90.2	71.4	107.2
167	13.8	10.6	16.0





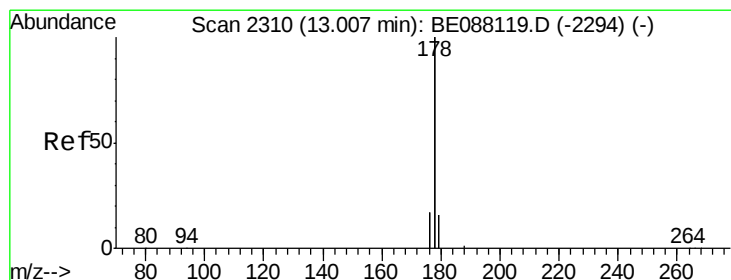
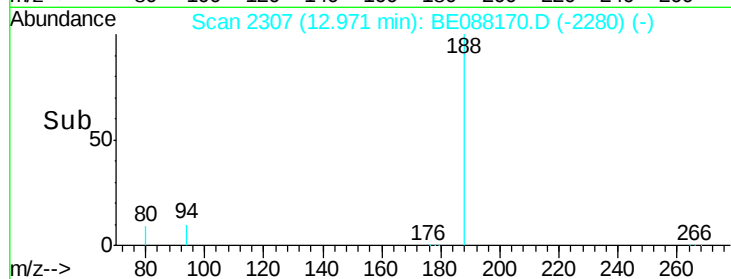
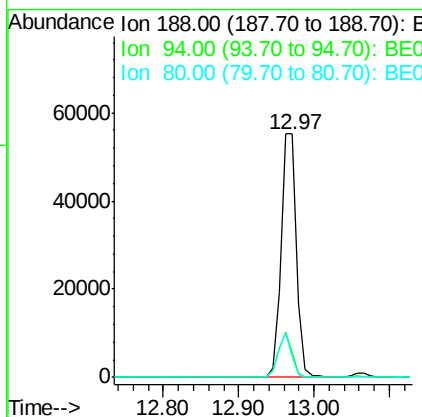
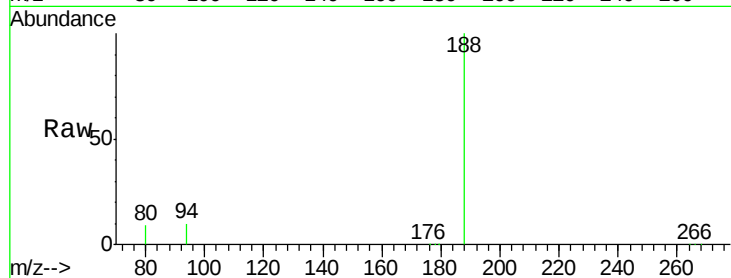
#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.97 min Scan# 2307
Delta R.T. 0.01 min
Lab File: BE088170.D
Acq: 22 Oct 2014 8:01

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Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	10.0	13.9	20.9#
80	8.6	12.9	19.3#

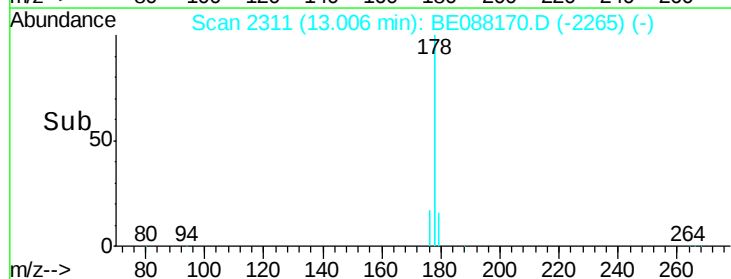
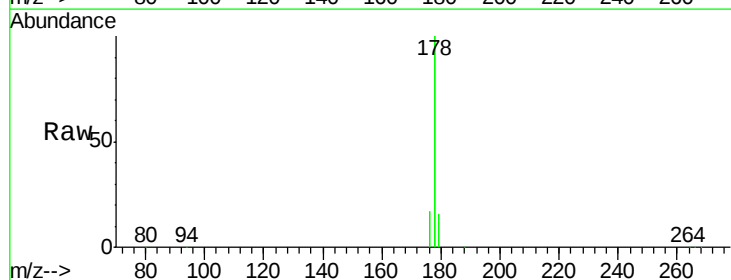
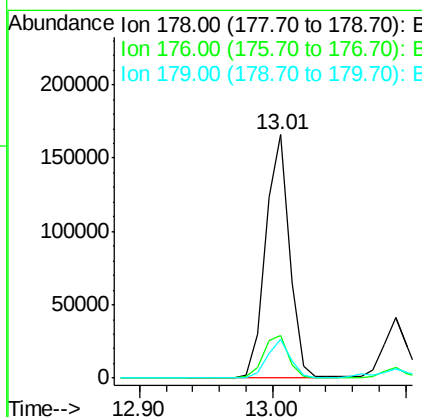
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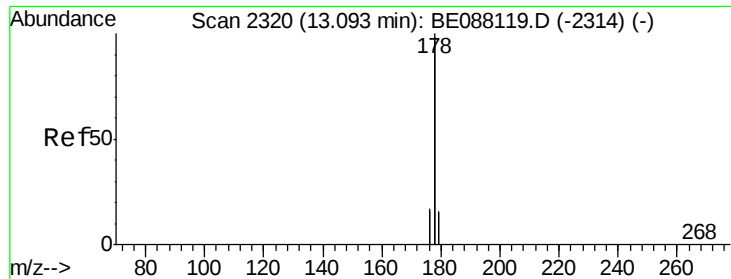
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#13
Phenanthrene
Concen: 2.82 ng
RT: 13.01 min Scan# 2311
Delta R.T. -0.00 min
Lab File: BE088170.D
Acq: 22 Oct 2014 8:01

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	18.5	12.5	18.7
179	15.6	13.5	20.3





#14

Anthracene

Concen: 0.70 ng m

RT: 13.09 min Scan# 2321

Delta R.T. -0.00 min

Lab File: BE088170.D

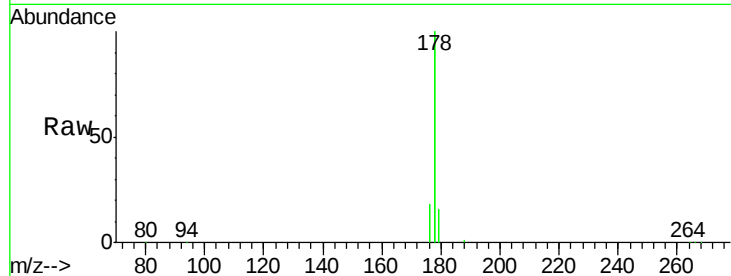
Acq: 22 Oct 2014 8:01

Instrument :

BNA_E

ClientSampleId :

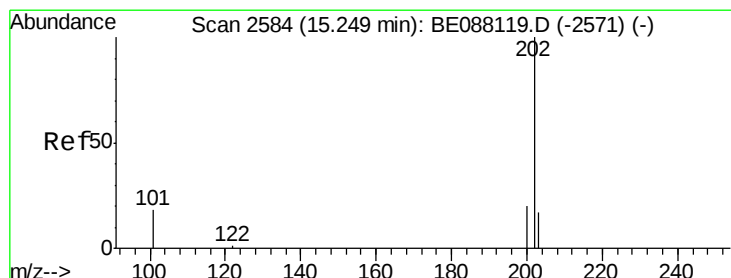
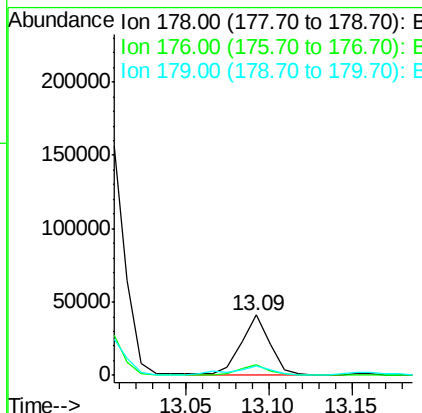
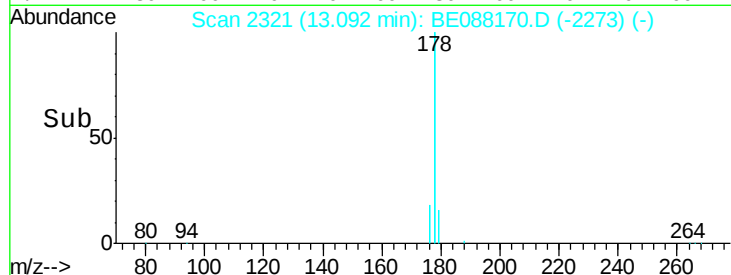
YS19-SS06-1014DL



Tgt Ion:	178	Resp:	51559
Ion Ratio	Lower	Upper	
178	100		
176	73.6	14.6	21.8#
179	61.9	12.5	18.7#

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#15

Fluoranthene

Concen: 3.87 ng

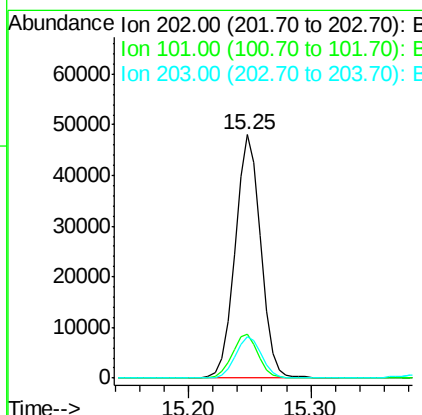
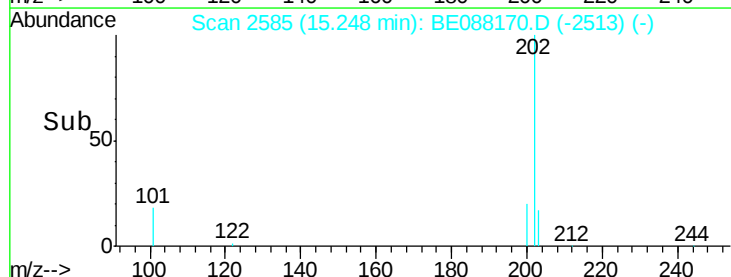
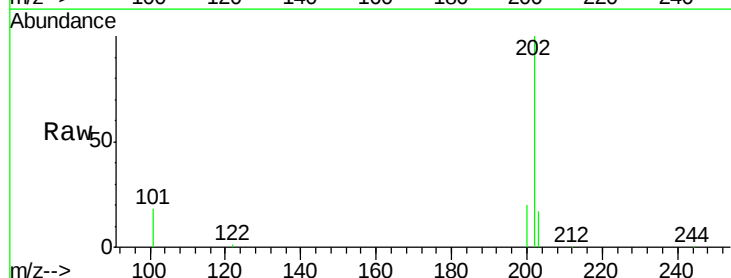
RT: 15.25 min Scan# 2585

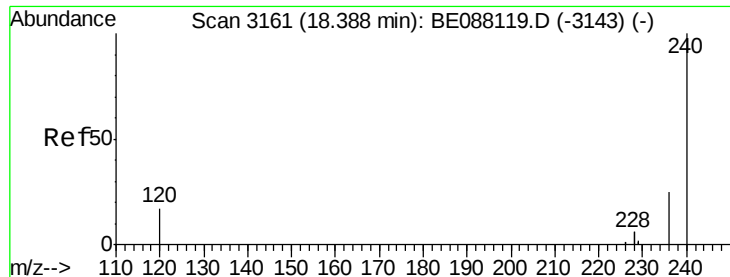
Delta R.T. -0.00 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

Tgt Ion:	202	Resp:	70005
Ion Ratio	Lower	Upper	
202	100		
101	18.3	14.8	22.2
203	17.3	13.5	20.3





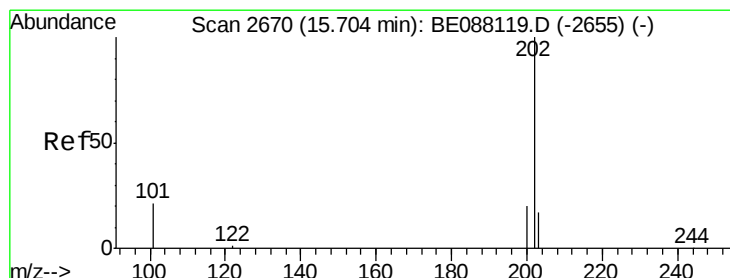
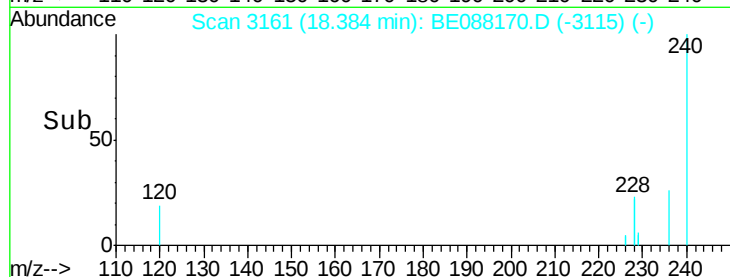
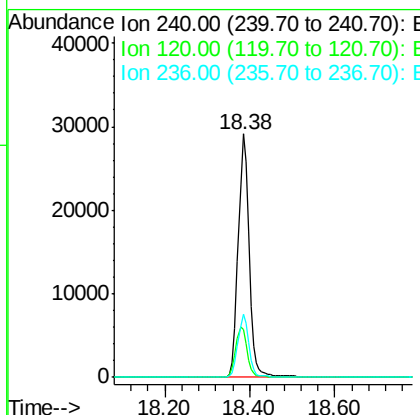
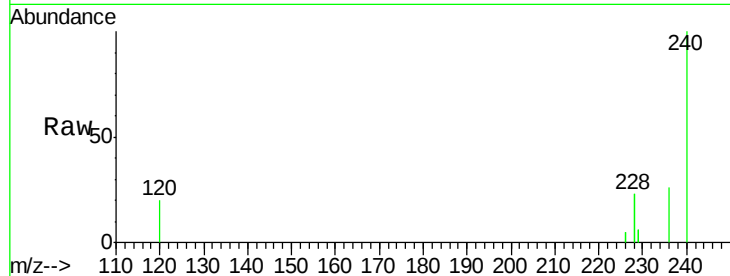
#16
Chrysene-d12
Concen: 5.00 ng
RT: 18.38 min Scan# 3161
Delta R.T. -0.00 min
Lab File: BE088170.D
Acq: 22 Oct 2014 8:01

Instrument :
BNA_E
ClientSampleId :
YS19-SS06-1014DL

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	51868		
120	19.6	13.9	20.9	
236	25.7	19.9	29.9	

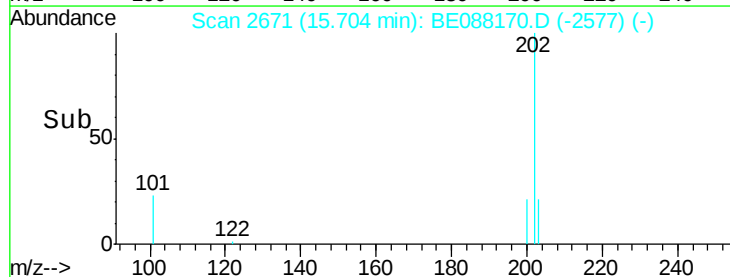
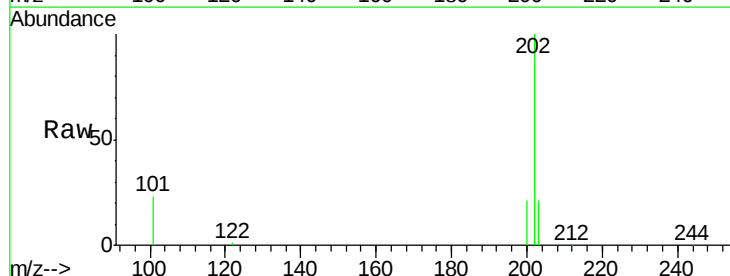
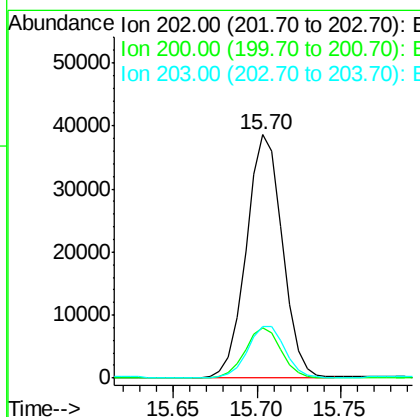
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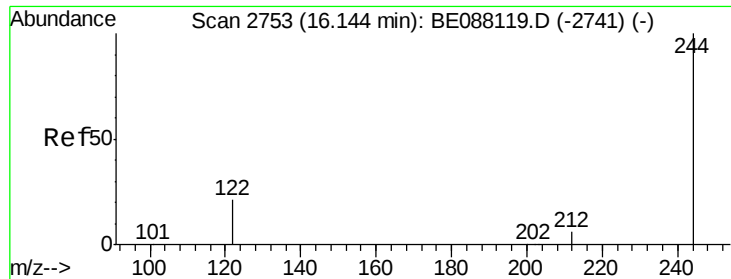
mohammad
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#17
Pyrene
Concen: 4.15 ng m
RT: 15.70 min Scan# 2671
Delta R.T. -0.00 min
Lab File: BE088170.D
Acq: 22 Oct 2014 8:01

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	58557		
200	23.8	16.1	24.1	
203	20.6	13.9	20.9	





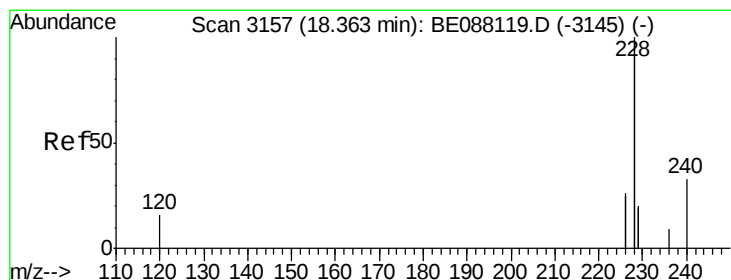
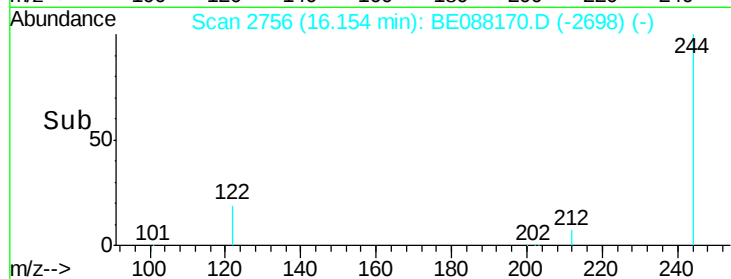
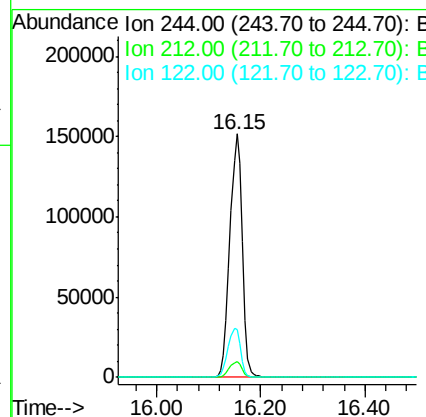
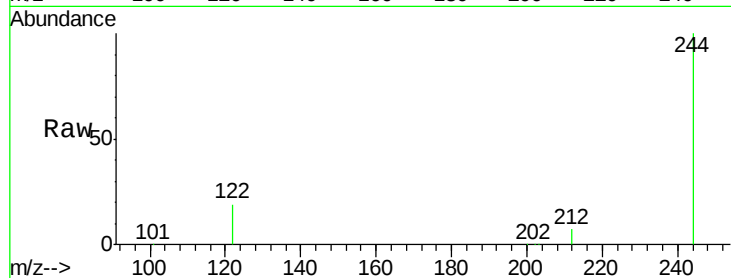
#18
 Terphenyl-d14
 Concen: 30.13 ng
 RT: 16.15 min Scan# 2756
 Delta R.T. 0.01 min
 Lab File: BE088170.D
 Acq: 22 Oct 2014 8:01

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS06-1014DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.6	5.4	8.0
122	19.4	17.5	26.3

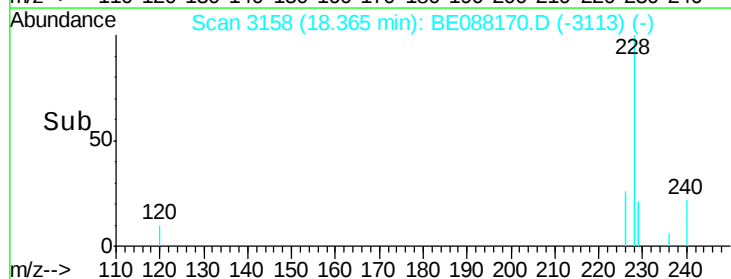
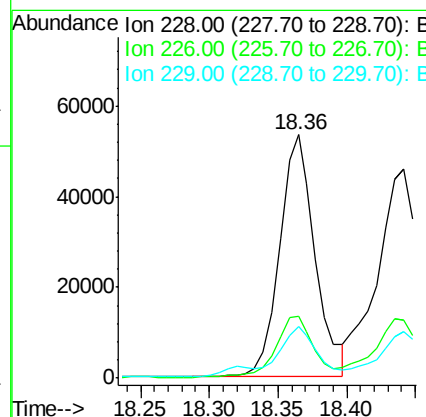
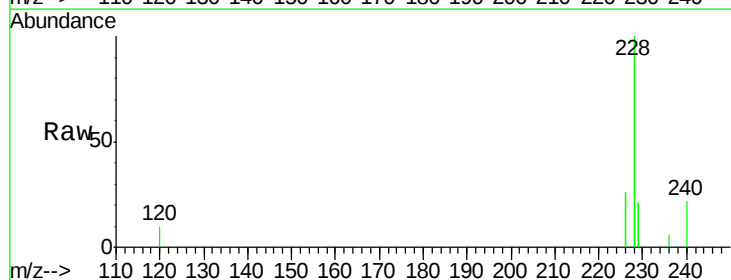
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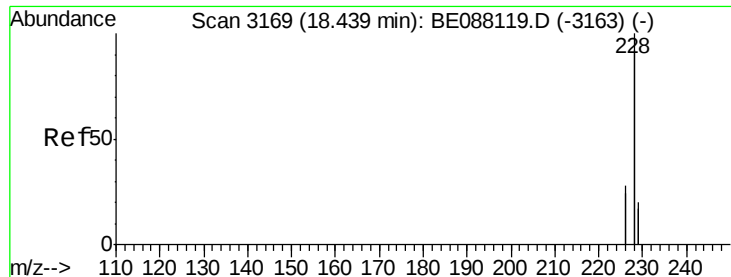
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#19
 Benzo(a)anthracene
 Concen: 2.08 ng
 RT: 18.36 min Scan# 3158
 Delta R.T. 0.00 min
 Lab File: BE088170.D
 Acq: 22 Oct 2014 8:01

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	25.5	20.8	31.2
229	21.1	15.6	23.4





#20

Chrysene

Concen: 2.17 ng

RT: 18.44 min Scan# 3170

Delta R.T. 0.00 min

Lab File: BE088170.D

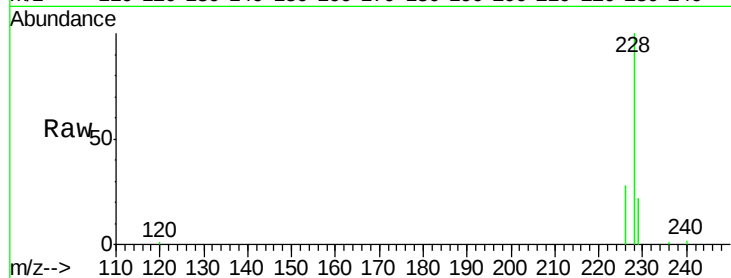
Acq: 22 Oct 2014 8:01

Instrument :

BNA_E

ClientSampleId :

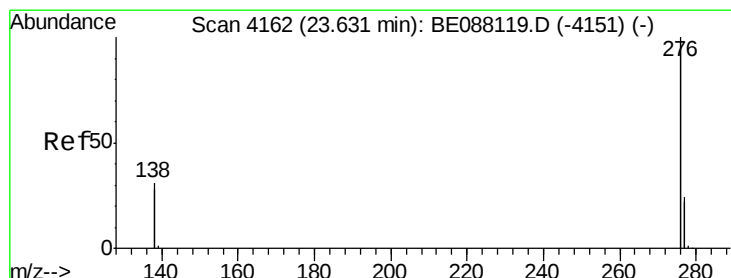
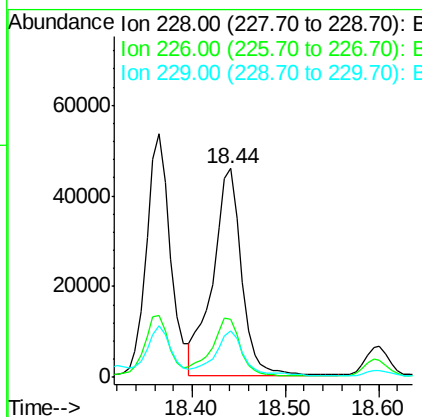
YS19-SS06-1014DL



Tgt Ion:	228	Resp:	98117
Ion Ratio	Lower	Upper	
228	100		
226	28.0	22.7	34.1
229	22.2	15.8	23.6

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#21

Indeno(1,2,3-cd)pyrene

Concen: 1.04 ng

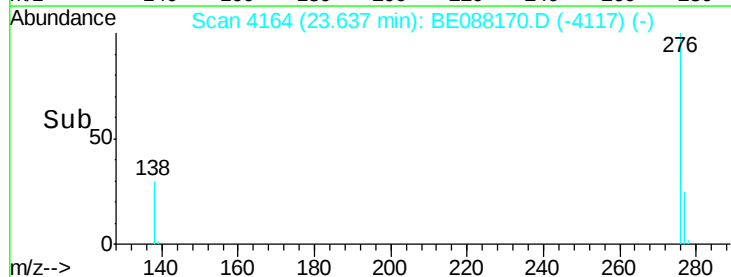
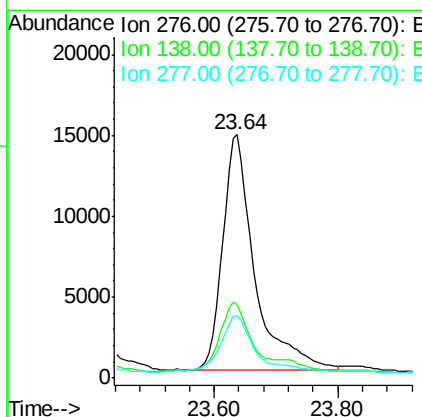
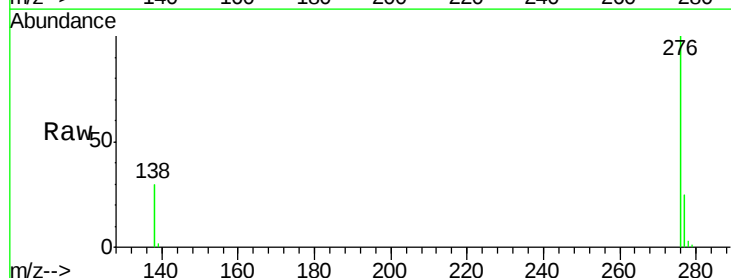
RT: 23.64 min Scan# 4164

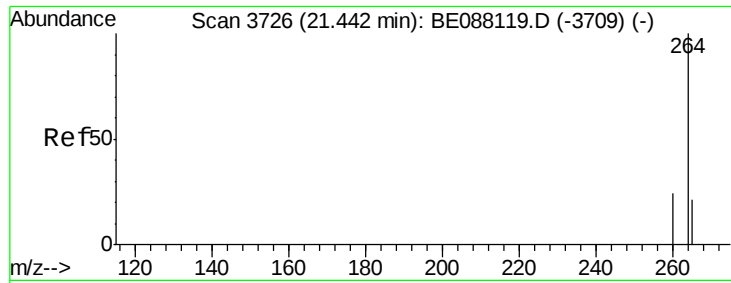
Delta R.T. 0.01 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

Tgt Ion:	276	Resp:	52288
Ion Ratio	Lower	Upper	
276	100		
138	31.3	18.5	27.7#
277	25.5	14.6	21.8#





#22

Perylene-d12

Concen: 5.00 ng

RT: 21.44 min Scan# 3727

Delta R.T. -0.00 min

Lab File: BE088170.D

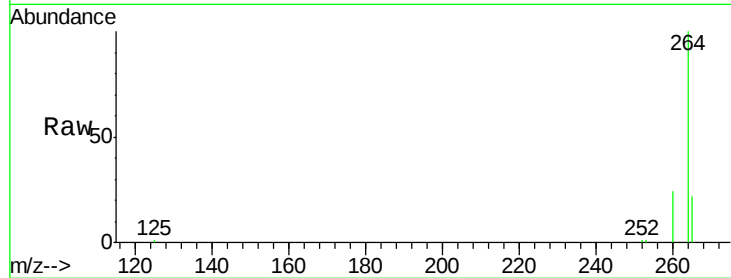
Acq: 22 Oct 2014 8:01

Instrument :

BNA_E

ClientSampleId :

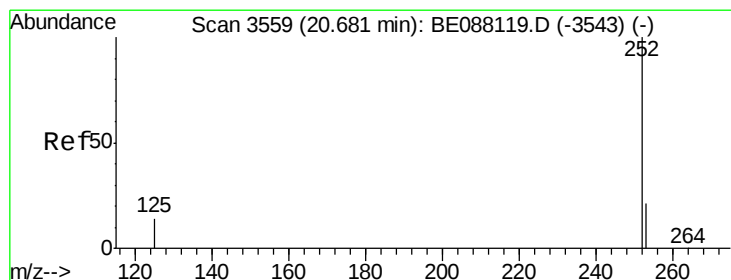
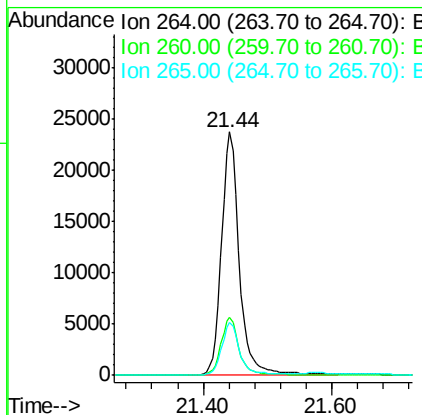
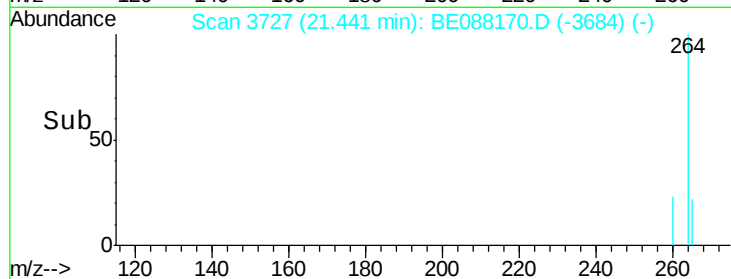
YS19-SS06-1014DL



Tgt Ion:	264	Resp:	45328
Ion Ratio	Lower	Upper	
264	100		
260	23.6	19.0	28.4
265	21.8	17.2	25.8

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#23

Benzo(b)fluoranthene

Concen: 2.39 ng

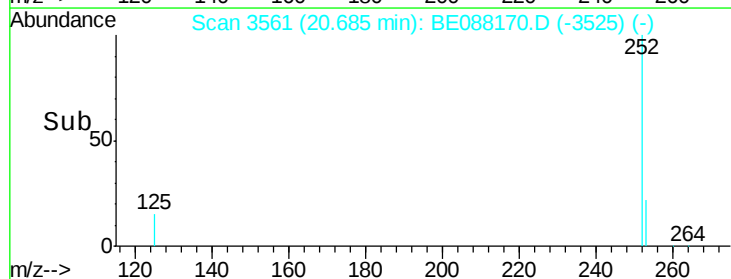
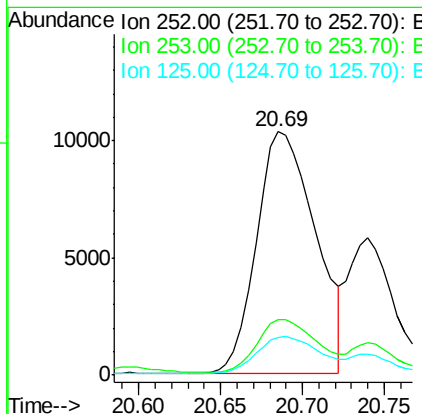
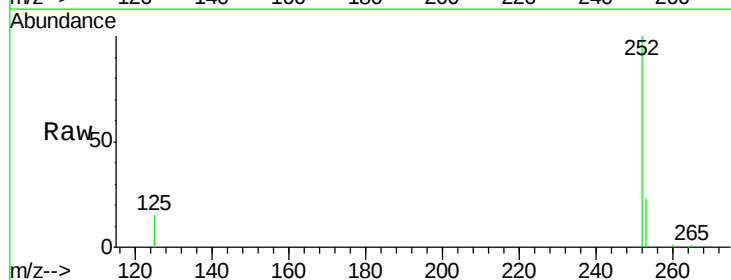
RT: 20.69 min Scan# 3561

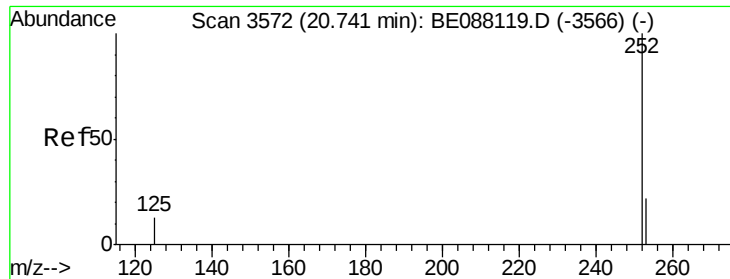
Delta R.T. 0.00 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

Tgt Ion:	252	Resp:	25816
Ion Ratio	Lower	Upper	
252	100		
253	22.7	17.4	26.0
125	15.5	11.8	17.8





#24

Benzo(k)fluoranthene

Concen: 1.03 ng

RT: 20.74 min Scan# 3573

Delta R.T. -0.00 min

Lab File: BE088170.D

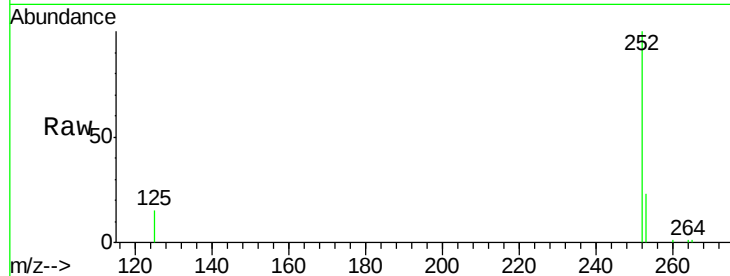
Acq: 22 Oct 2014 8:01

Instrument :

BNA_E

ClientSampleId :

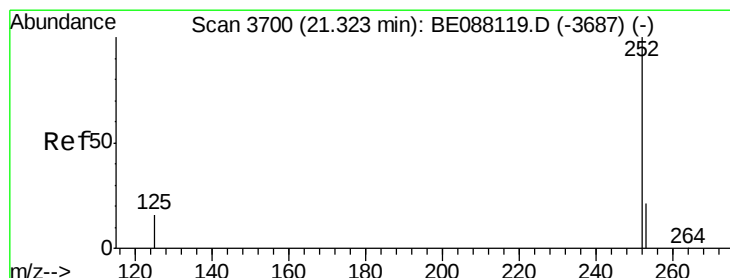
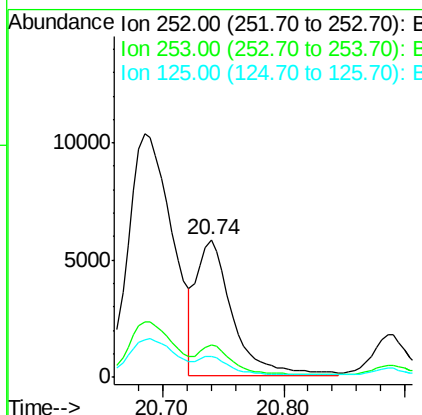
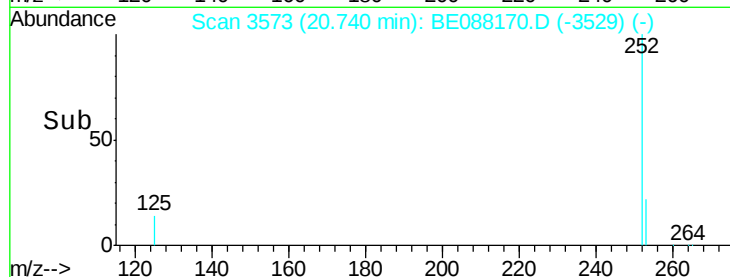
YS19-SS06-1014DL



Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.6	26.4
125	15.3	11.5	17.3

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#25

Benzo(a)pyrene

Concen: 1.82 ng

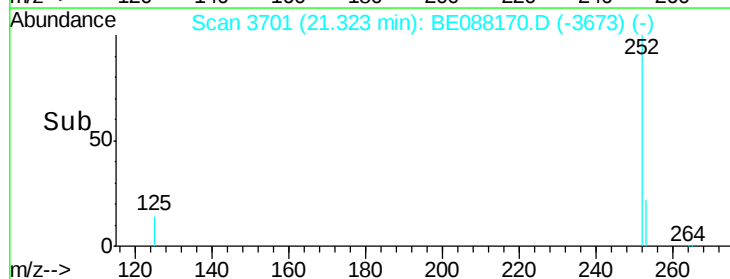
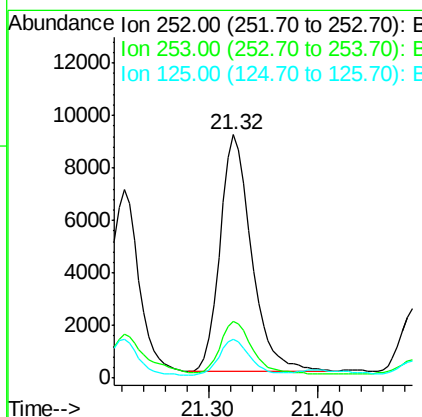
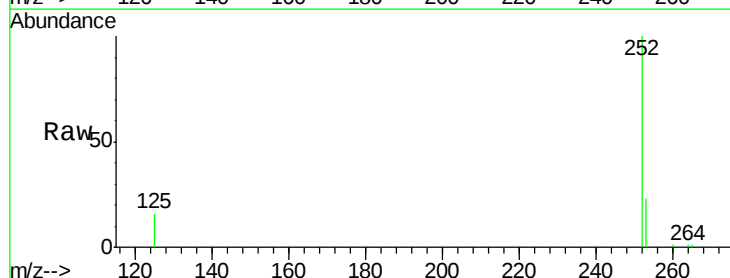
RT: 21.32 min Scan# 3701

Delta R.T. -0.00 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

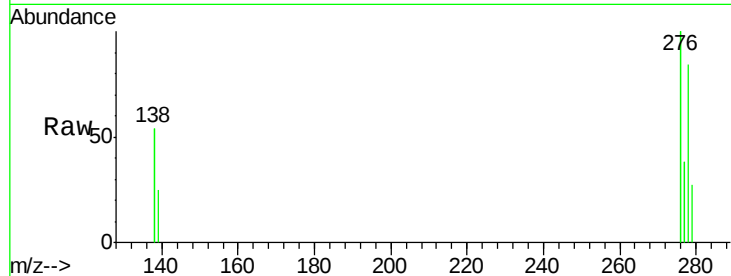
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.5	26.3
125	15.9	13.0	19.6





#26
Dibenzo(a,h)anthracene
Concen: 0.25 ng
RT: 23.72 min Scan# 4177
Delta R.T. -0.01 min
Lab File: BE088170.D
Acq: 22 Oct 2014 8:01

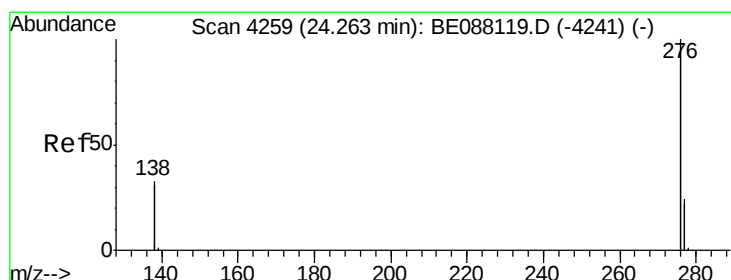
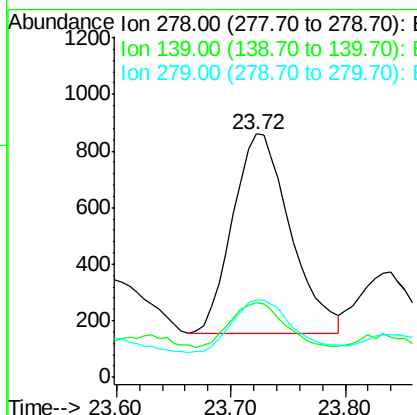
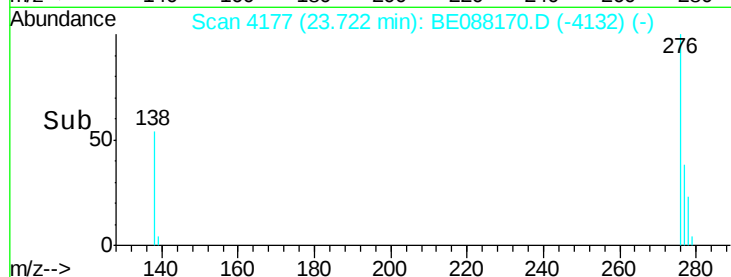
Instrument :
BNA_E
ClientSampleId :
YS19-SS06-1014DL



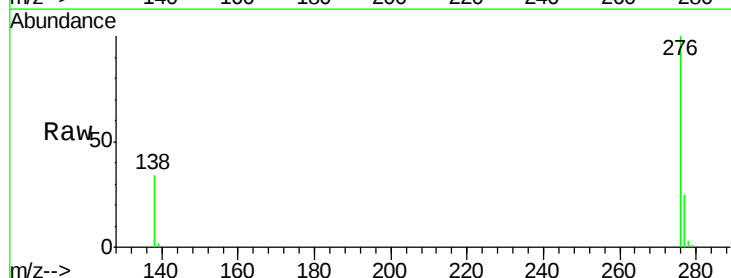
Tgt Ion	Ratio	Lower	Upper
278	100		
139	30.4	20.9	31.3
279	31.8	19.8	29.8

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#27
Benzo(g,h,i)perylene
Concen: 1.25 ng
RT: 24.26 min Scan# 4260
Delta R.T. -0.00 min
Lab File: BE088170.D
Acq: 22 Oct 2014 8:01



Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.2	28.8
138	34.2	26.6	40.0

