

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102214\
 Data File : BE088185.D
 Acq On : 22 Oct 2014 17:09
 Operator : TP/JJ
 Sample : F4337-02
 Misc : TWO TIME INT STD
 ALS Vial : 7 Sample Multiplier: 2

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB21-1014

Manual Integrations
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 10/28/2014 12:05:51 PM

Quant Time: Oct 27 04:25:57 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	54670	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	204724	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	100212	5.00	ng	0.00
12) Phenanthrene-d10	12.97	188	186514	5.00	ng	0.00
16) Chrysene-d12	18.39	240	97303	5.00	ng	0.00
22) Perylene-d12	21.45	264	94456	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	363258	49.23	ng	0.01
8) 2-Fluorobiphenyl	10.04	172	441045	31.87	ng	0.00
18) Terphenyl-d14	16.16	244	341107	43.57	ng	0.01
Target Compounds						Qvalue
5) Naphthalene	8.72	128	7220	0.34	ng	99
6) 2-Methylnaphthalene	9.57	142	8993	0.71	ng	94
9) Acenaphthylene	10.67	152	77161	1.01	ng	100
10) Acenaphthene	10.88	154	12176	1.03	ng	98
11) Fluorene	11.55	166	14704	1.18	ng	100
13) Phenanthrene	13.01	178	87025	0.85	ng	96
14) Anthracene	13.09	178	84747	1.16	ng	99
15) Fluoranthene	15.25	202	18571	1.05	ng	99
17) Pyrene	15.70	202	18589	1.41	ng	99
19) Benzo(a)anthracene	18.36	228	48988	1.13	ng	99
20) Chrysene	18.44	228	50789	1.20	ng	99
21) Indeno(1,2,3-cd)pyrene	23.64	276	53739m	1.14	ng	
23) Benzo(b)fluoranthene	20.69	252	10928	0.97	ng	99
24) Benzo(k)fluoranthene	20.74	252	13692	1.14	ng	99
25) Benzo(a)pyrene	21.33	252	10674	1.03	ng	100
26) Dibenzo(a,h)anthracene	23.74	278	10369	1.02	ng	99
27) Benzo(g,h,i)perylene	24.27	276	49567	1.10	ng	99

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

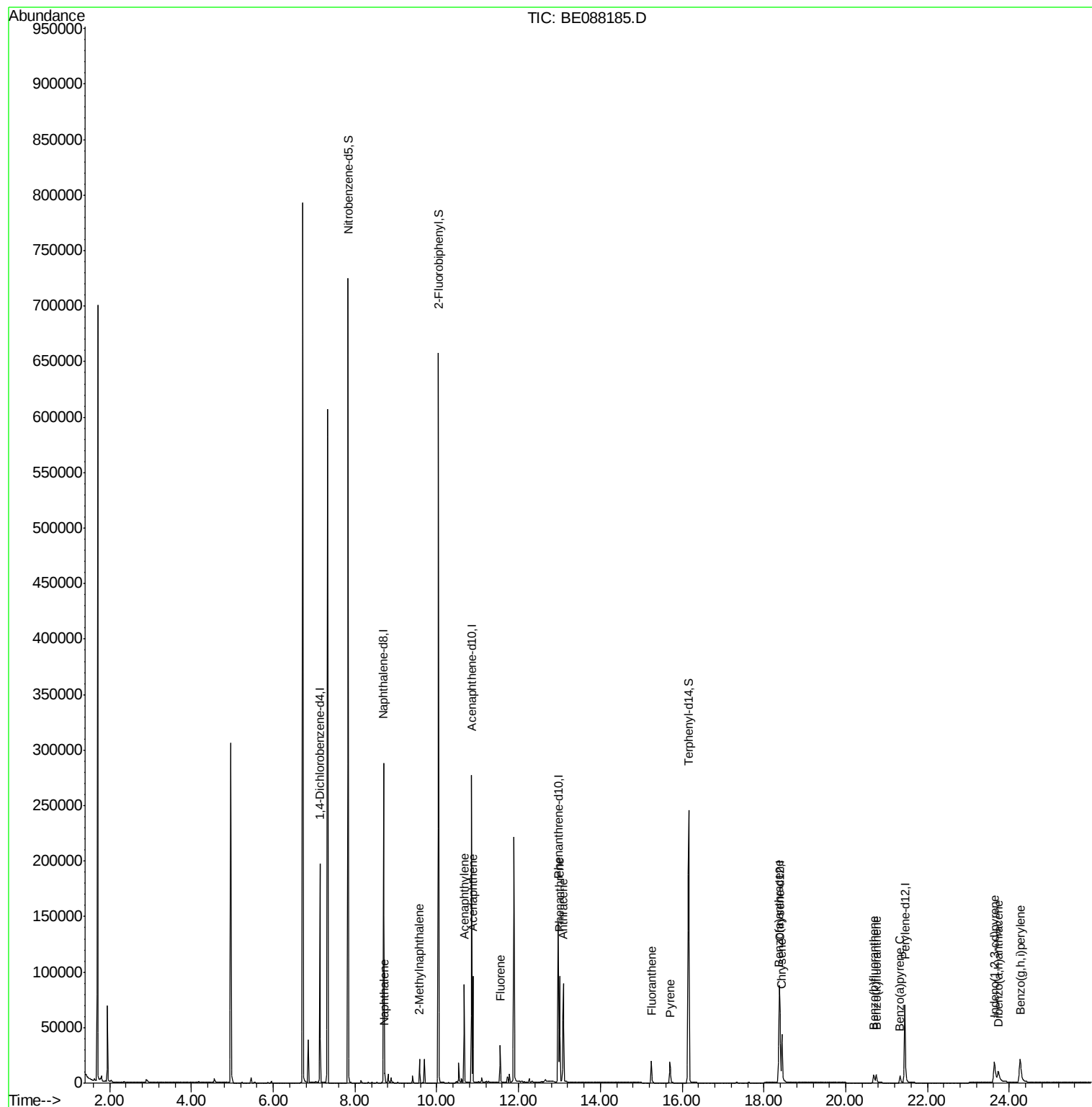
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102214\
Data File : BE088185.D
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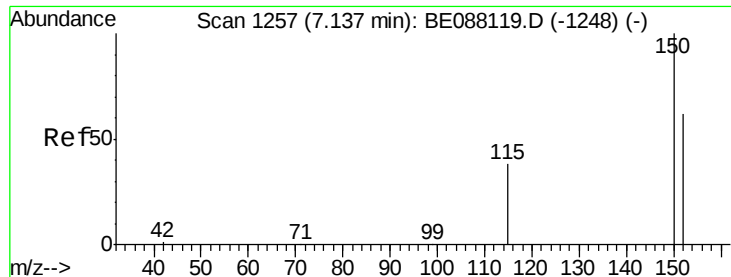
Instrument :
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Quant Time: Oct 27 04:25:57 2014
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1259

Delta R.T. 0.00 min

Lab File: BE088185.D

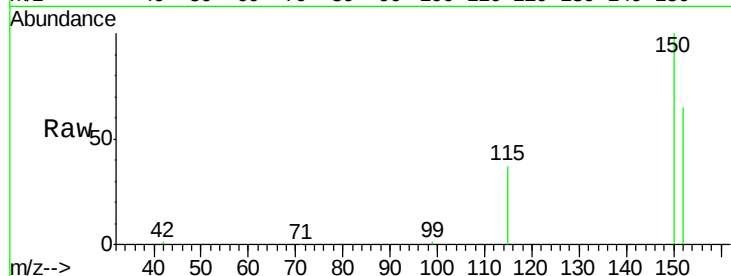
Acq: 22 Oct 2014 17:09

Instrument :

BNA_E

ClientSampleId :

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Tgt Ion:152 Resp: 54670

Ion Ratio Lower Upper

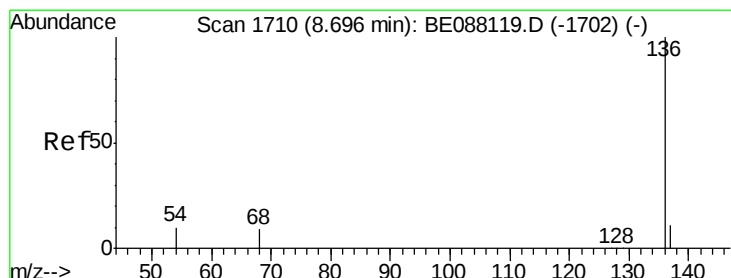
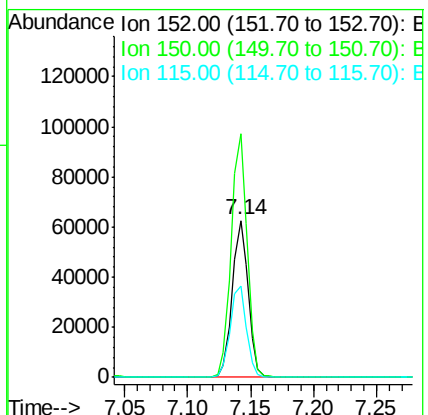
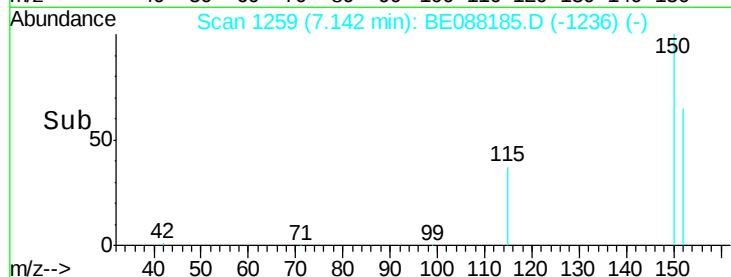
152 100

150 155.0 129.2 193.8

115 58.0 49.3 73.9

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#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.70 min Scan# 1712

Delta R.T. 0.01 min

Lab File: BE088185.D

Acq: 22 Oct 2014 17:09

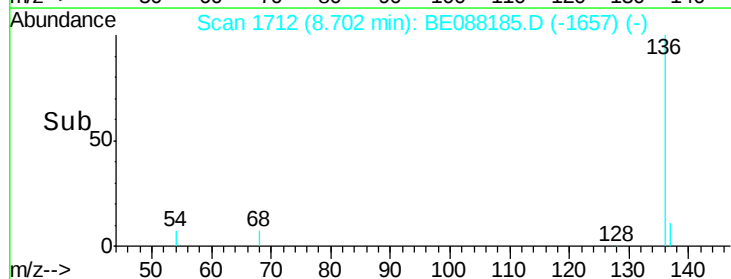
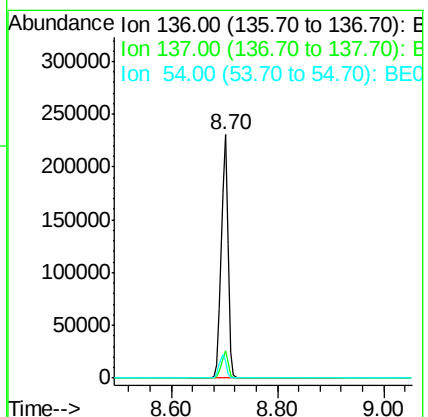
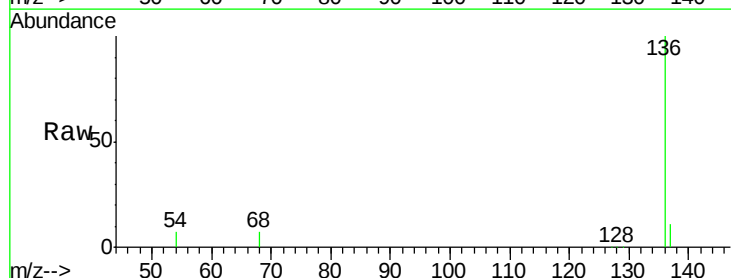
Tgt Ion:136 Resp: 204724

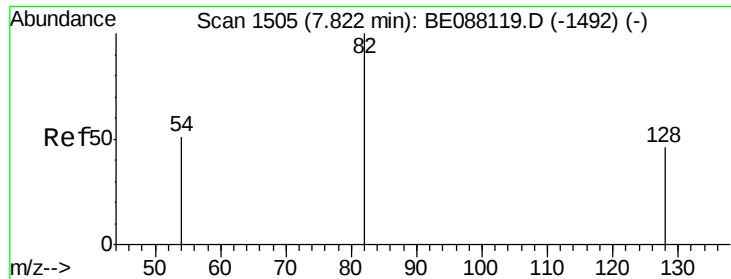
Ion Ratio Lower Upper

136 100

137 11.0 8.6 12.8

54 7.1 7.7 11.5#





#4

Nitrobenzene-d5

Concen: 49.23 ng

RT: 7.83 min Scan# 1511

Delta R.T. 0.01 min

Lab File: BE088185.D

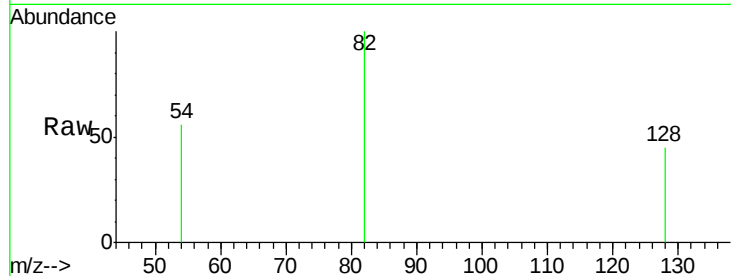
Acq: 22 Oct 2014 17:09

Instrument :

BNA_E

ClientSampleId :

YS19-SB21-1014



Tgt Ion: 82 Resp: 363258

Ion Ratio Lower Upper

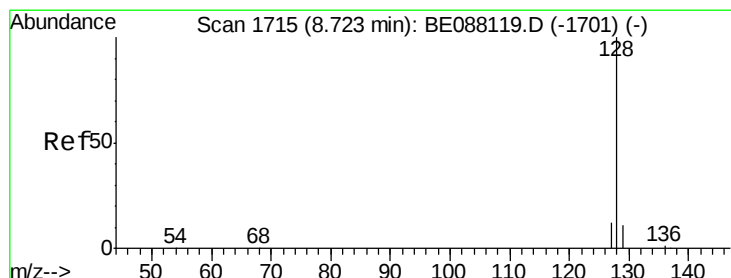
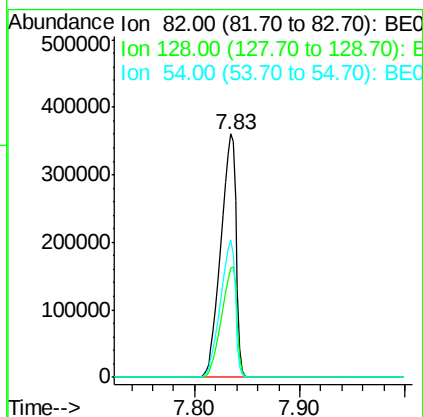
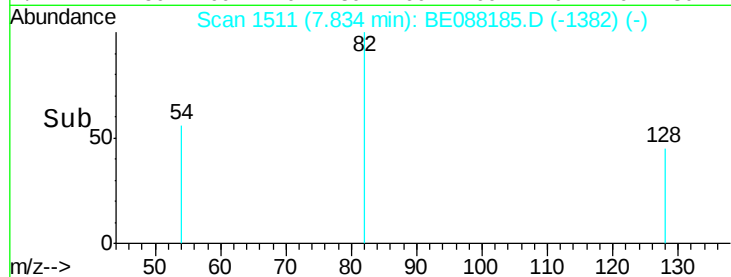
82 100

128 44.6 37.1 55.7

54 56.4 41.1 61.7

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#5

Naphthalene

Concen: 0.34 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088185.D

Acq: 22 Oct 2014 17:09

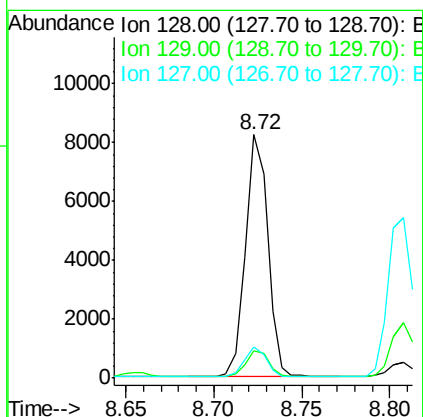
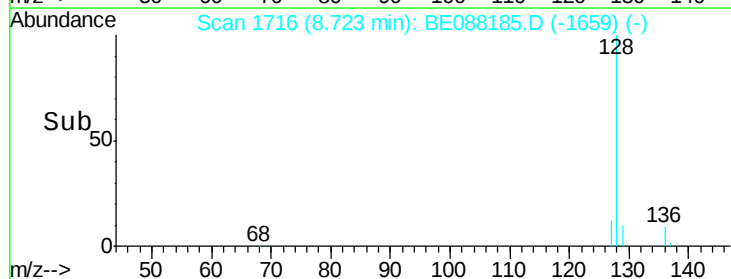
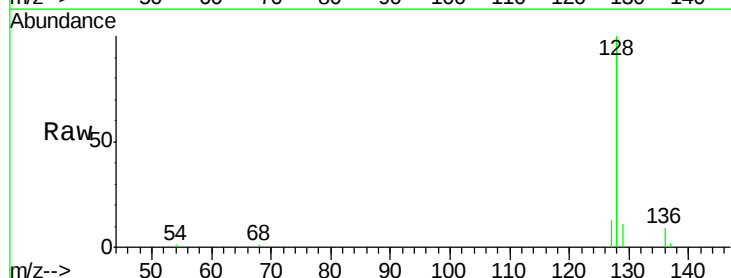
Tgt Ion: 128 Resp: 7220

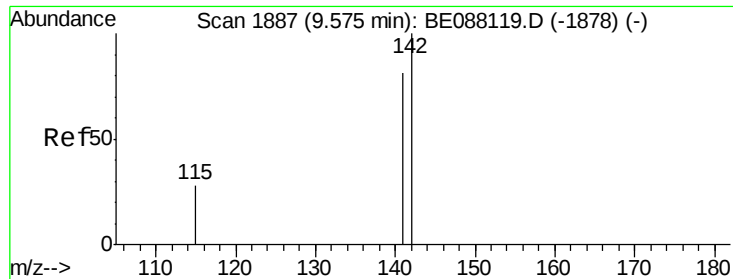
Ion Ratio Lower Upper

128 100

129 11.3 8.9 13.3

127 12.9 9.7 14.5





#6

2-Methylnaphthalene

Concen: 0.71 ng

RT: 9.57 min Scan# 1888

Delta R.T. -0.00 min

Lab File: BE088185.D

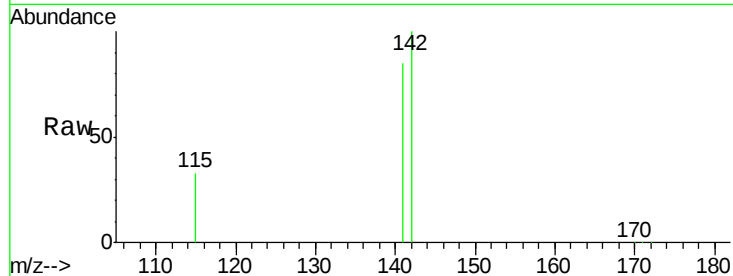
Acq: 22 Oct 2014 17:09

Instrument :

BNA_E

ClientSampleId :

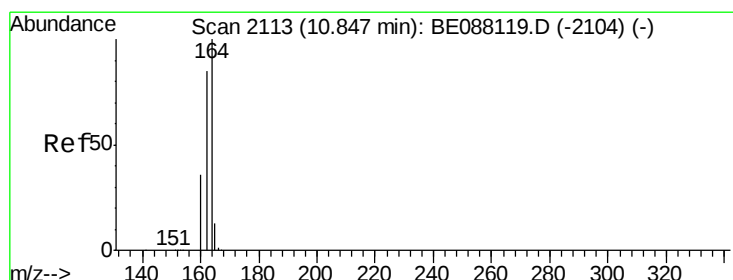
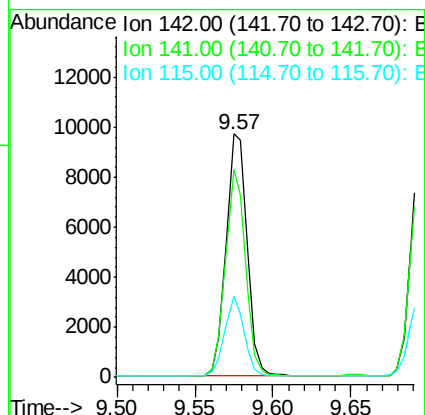
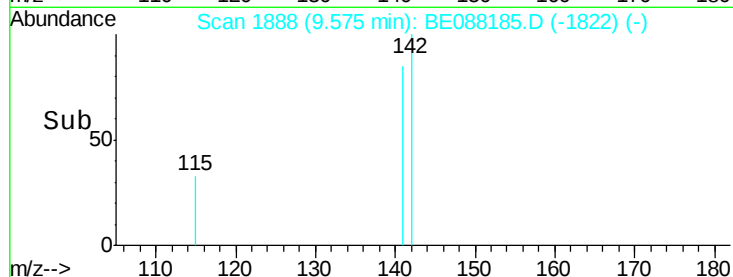
YS19-SB21-1014



Tgt Ion:	142	Resp:	8993
Ion Ratio	Lower	Upper	
142	100		
141	85.3	64.6	97.0
115	33.2	22.6	34.0

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#7

Acenaphthene-d10

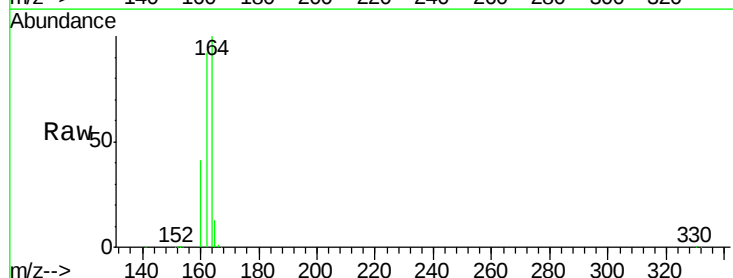
Concen: 5.00 ng

RT: 10.85 min Scan# 2114

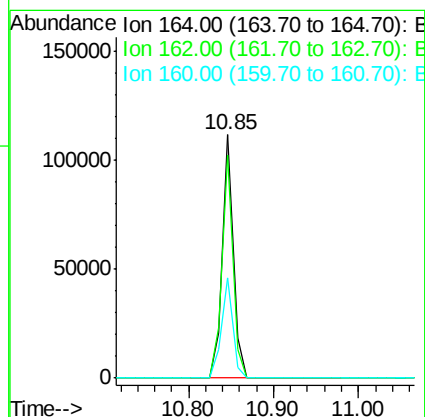
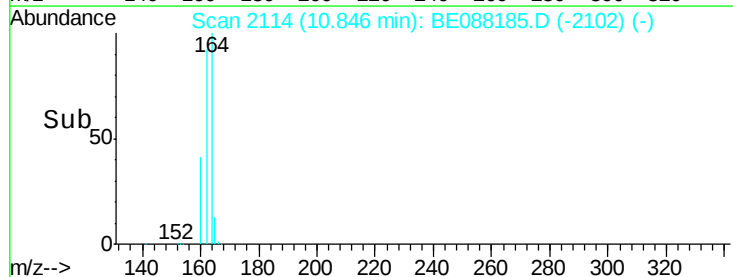
Delta R.T. -0.00 min

Lab File: BE088185.D

Acq: 22 Oct 2014 17:09



Tgt Ion:	164	Resp:	100212
Ion Ratio	Lower	Upper	
164	100		
162	91.9	68.3	102.5
160	41.4	28.7	43.1





#8

2-Fluorobiphenyl

Concen: 31.87 ng

RT: 10.04 min Scan# 1991

Delta R.T. 0.01 min

Lab File: BE088185.D

Acq: 22 Oct 2014 17:09

Instrument :

BNA_E

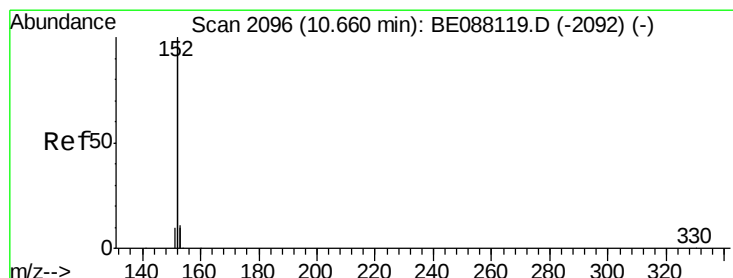
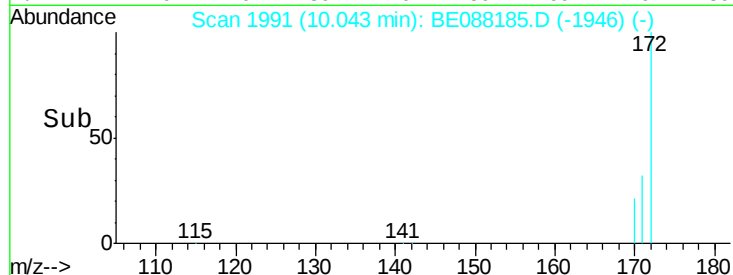
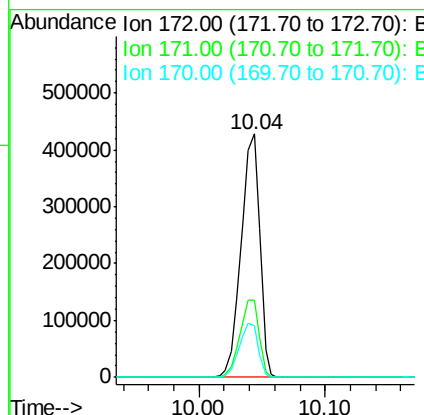
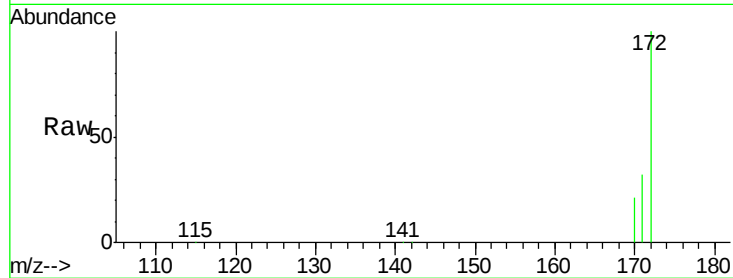
ClientSampleId :

YS19-SB21-1014

Tgt Ion:	172	Resp:	441045
Ion Ratio	Lower	Upper	
172	100		
171	31.9	25.4	38.2
170	21.2	17.4	26.2

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#9

Acenaphthylene

Concen: 1.01 ng

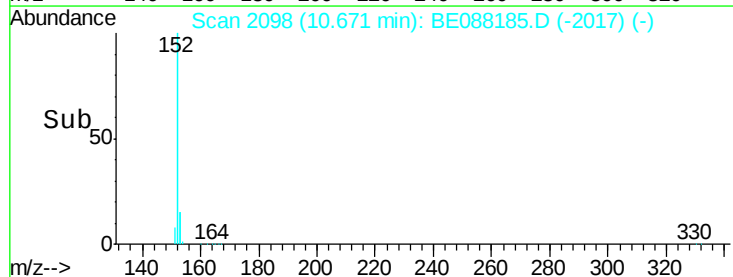
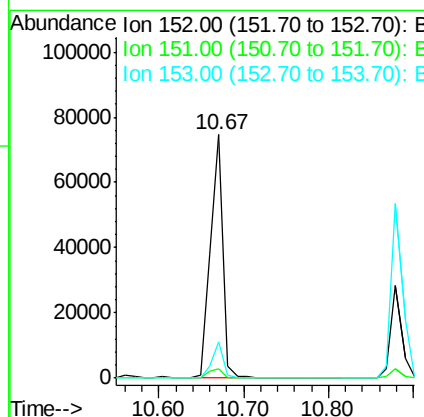
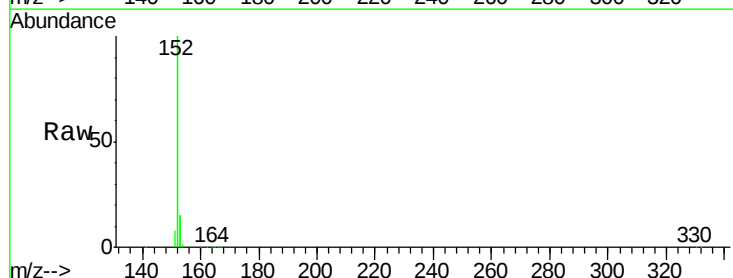
RT: 10.67 min Scan# 2098

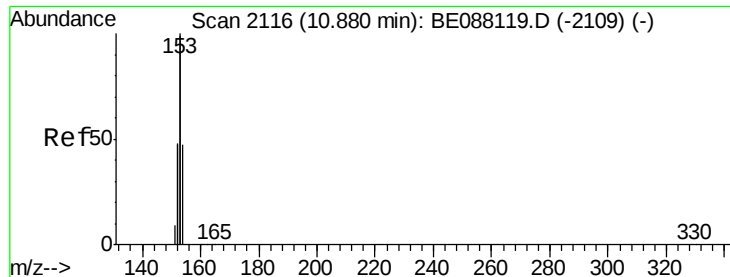
Delta R.T. 0.01 min

Lab File: BE088185.D

Acq: 22 Oct 2014 17:09

Tgt Ion:	152	Resp:	77161
Ion Ratio	Lower	Upper	
152	100		
151	4.6	3.7	5.5
153	13.0	10.4	15.6





#10

Acenaphthene

Concen: 1.03 ng

RT: 10.88 min Scan# 2117

Delta R.T. -0.00 min

Lab File: BE088185.D

Acq: 22 Oct 2014 17:09

Instrument :

BNA_E

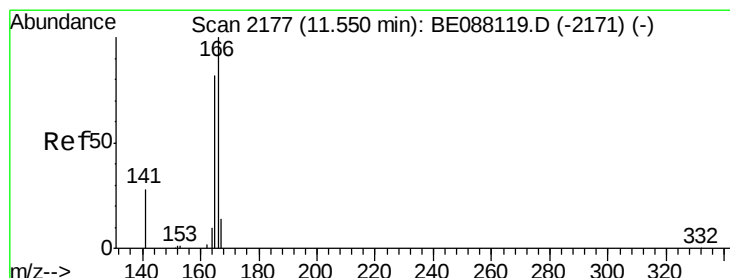
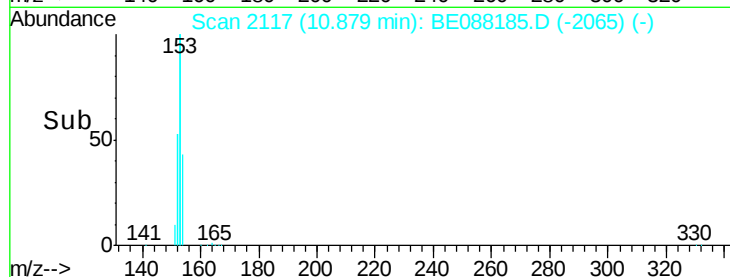
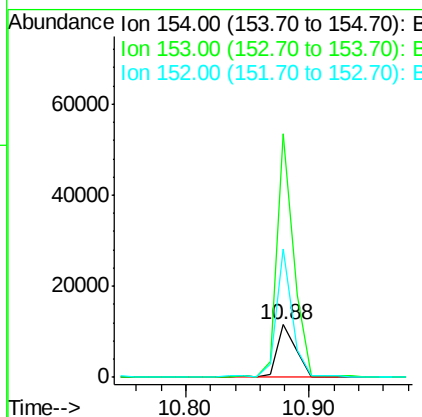
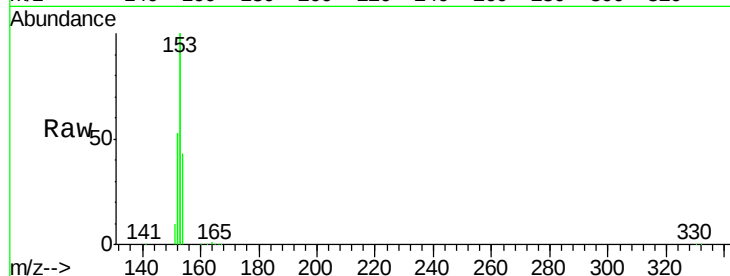
ClientSampleId :

YS19-SB21-1014

Tgt Ion:	154	Resp:	12176
Ion Ratio	Lower	Upper	
154	100		
153	405.1	327.8	491.6
152	199.2	157.6	236.4

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#11

Fluorene

Concen: 1.18 ng

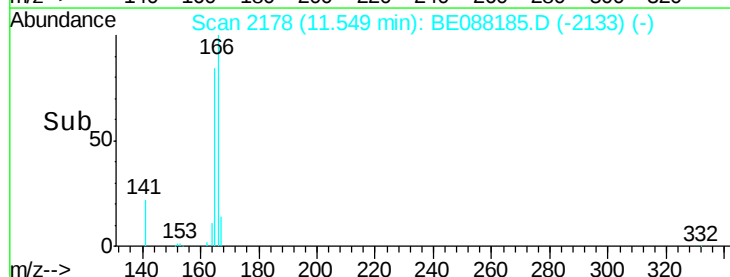
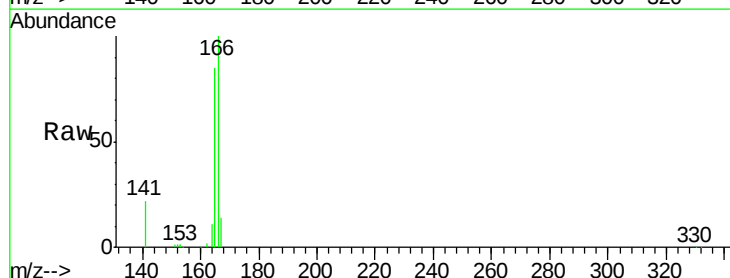
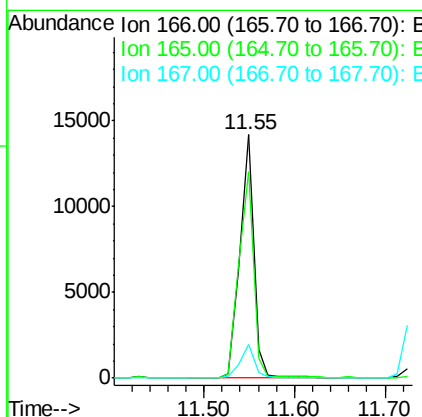
RT: 11.55 min Scan# 2178

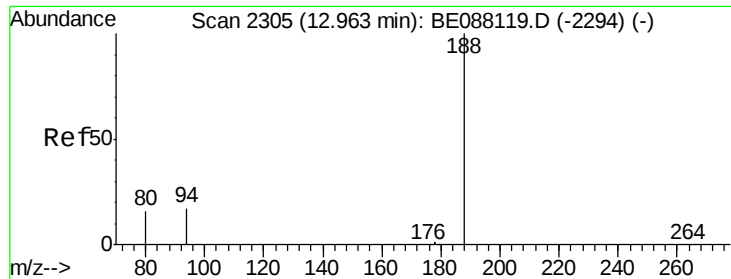
Delta R.T. -0.00 min

Lab File: BE088185.D

Acq: 22 Oct 2014 17:09

Tgt Ion:	166	Resp:	14704
Ion Ratio	Lower	Upper	
166	100		
165	89.4	71.4	107.2
167	13.6	10.6	16.0





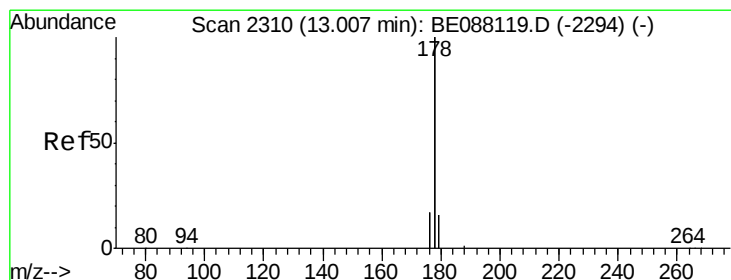
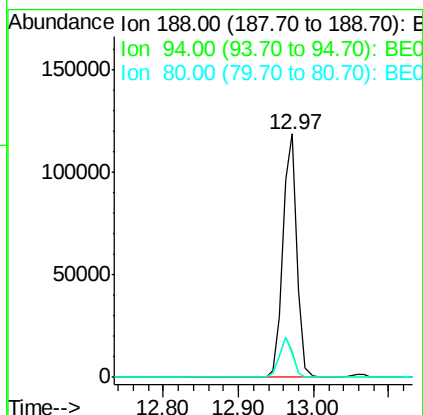
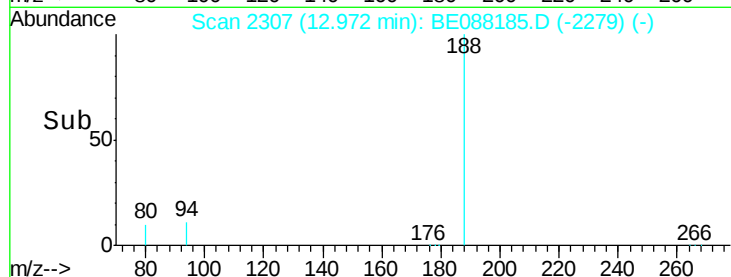
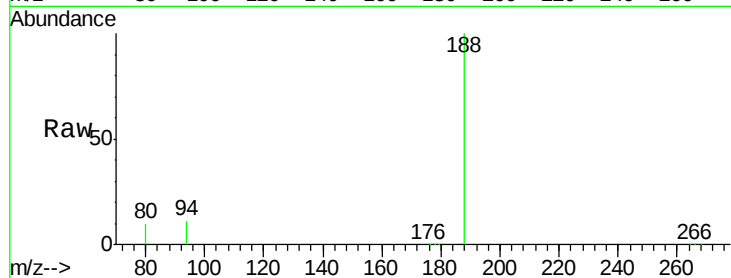
#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.97 min Scan# 2307
Delta R.T. 0.01 min
Lab File: BE088185.D
Acq: 22 Oct 2014 17:09

Instrument :
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ClientSampleId :
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Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	10.8	13.9	20.9#
80	9.5	12.9	19.3#

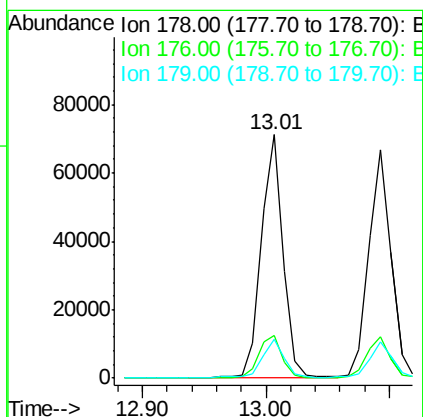
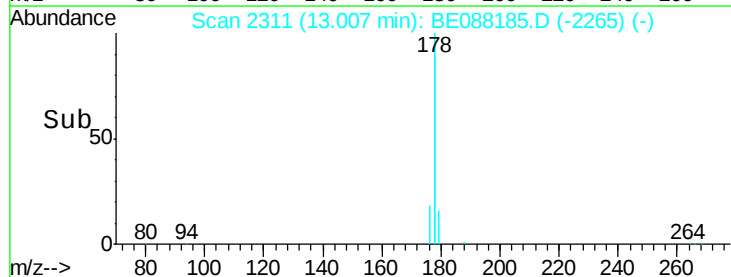
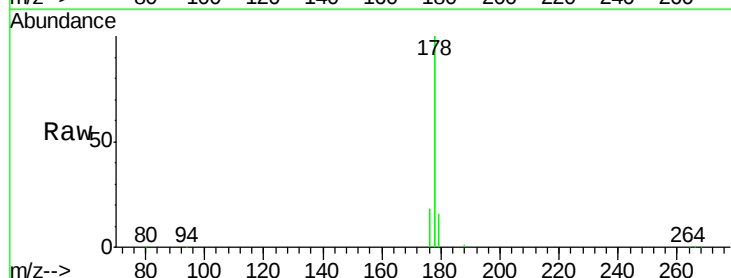
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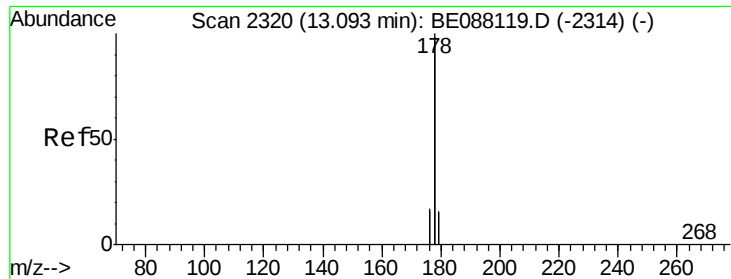
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#13
Phenanthrene
Concen: 0.85 ng
RT: 13.01 min Scan# 2311
Delta R.T. 0.00 min
Lab File: BE088185.D
Acq: 22 Oct 2014 17:09

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	18.5	12.5	18.7
179	16.4	13.5	20.3





#14

Anthracene

Concen: 1.16 ng

RT: 13.09 min Scan# 2321

Delta R.T. -0.00 min

Lab File: BE088185.D

Acq: 22 Oct 2014 17:09

Instrument :

BNA_E

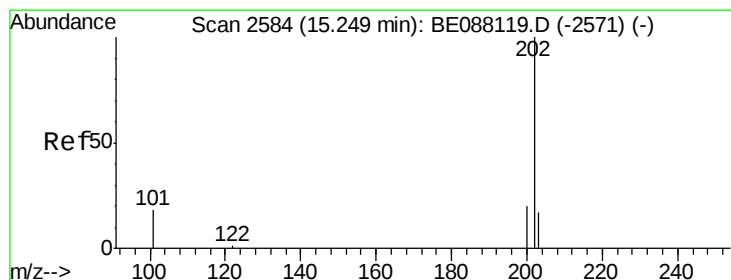
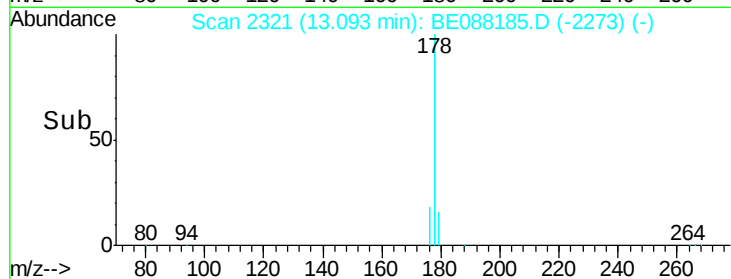
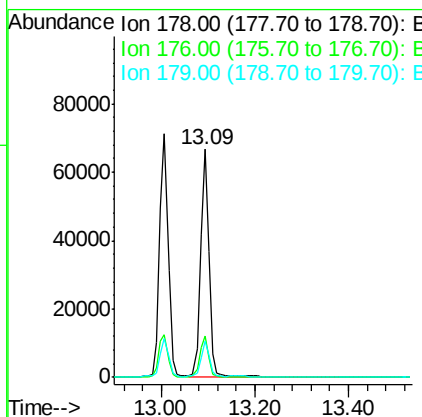
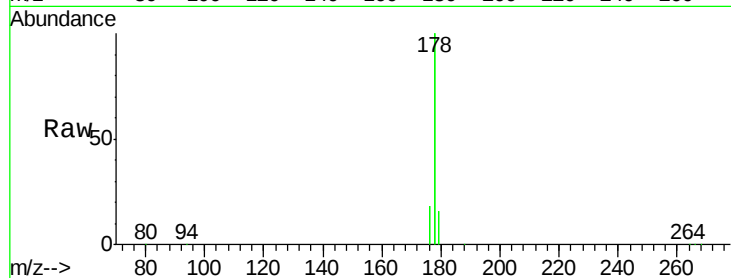
ClientSampleId :

YS19-SB21-1014

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Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.8	14.6	21.8
179	15.2	12.5	18.7



#15

Fluoranthene

Concen: 1.05 ng

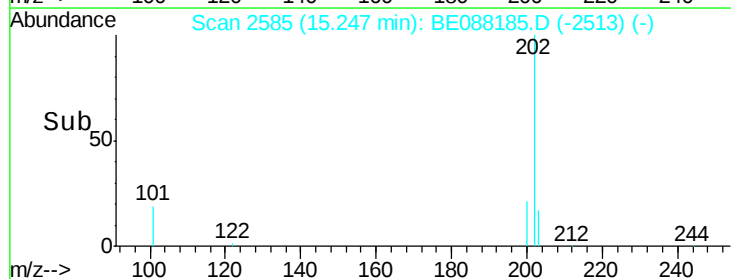
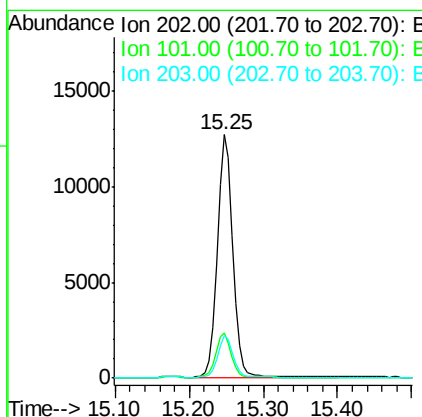
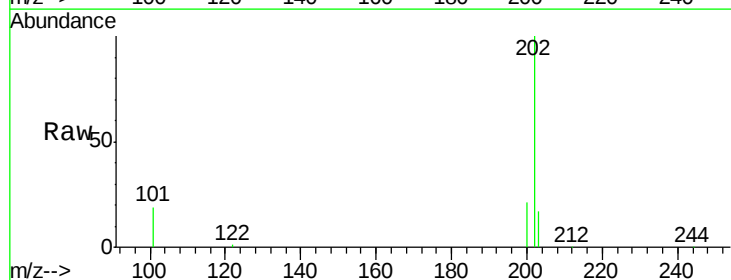
RT: 15.25 min Scan# 2585

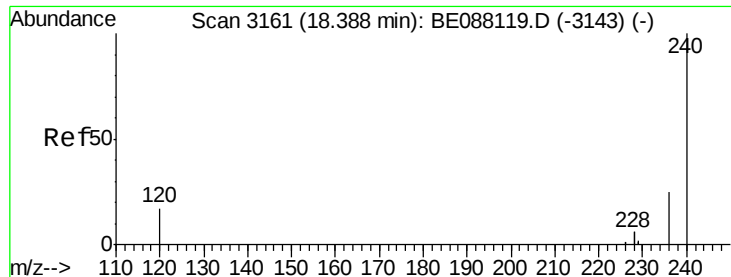
Delta R.T. -0.00 min

Lab File: BE088185.D

Acq: 22 Oct 2014 17:09

Tgt Ion	Ratio	Lower	Upper
202	100		
101	17.9	14.8	22.2
203	17.1	13.5	20.3





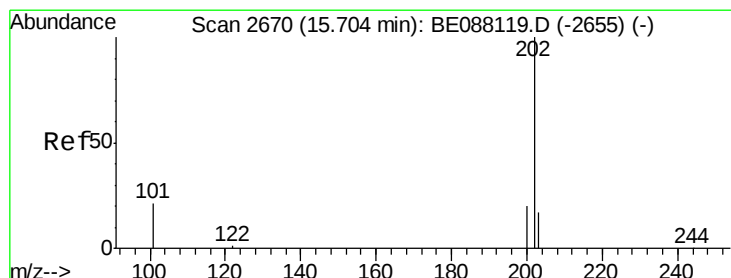
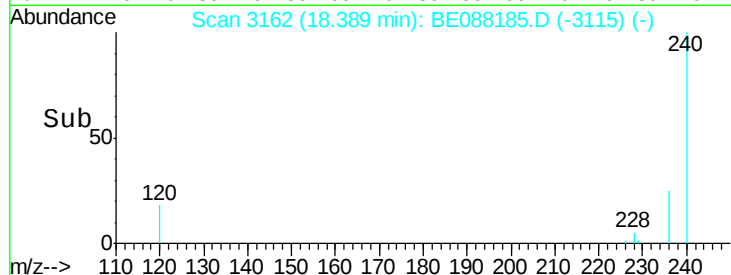
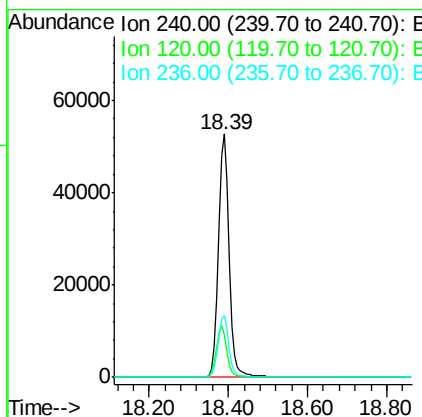
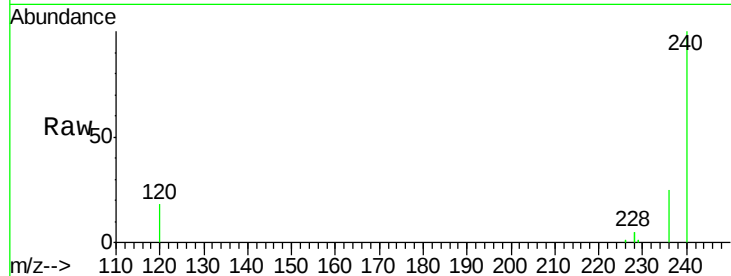
#16
Chrysene-d12
Concen: 5.00 ng
RT: 18.39 min Scan# 3162
Delta R.T. 0.00 min
Lab File: BE088185.D
Acq: 22 Oct 2014 17:09

Instrument :
BNA_E
ClientSampleId :
YS19-SB21-1014

Tgt Ion	Ratio	Lower	Upper
240	100		
120	17.6	13.9	20.9
236	25.2	19.9	29.9

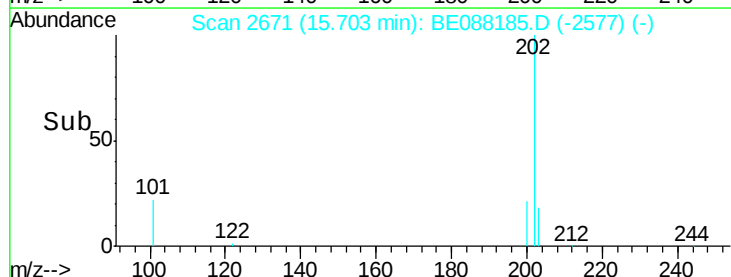
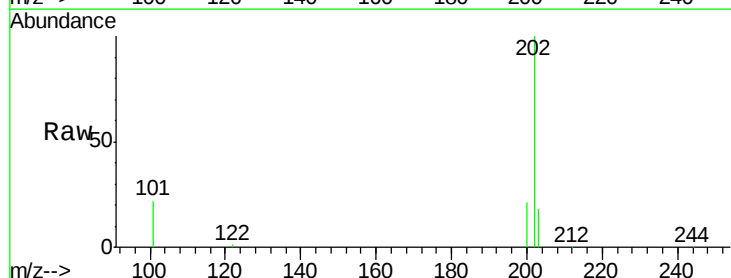
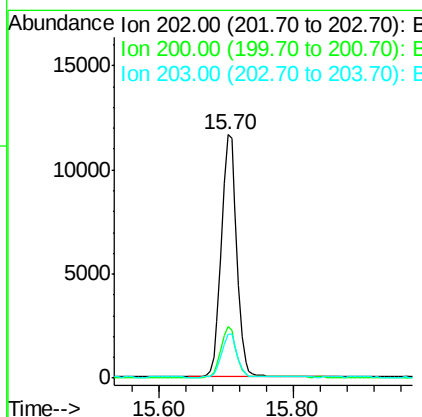
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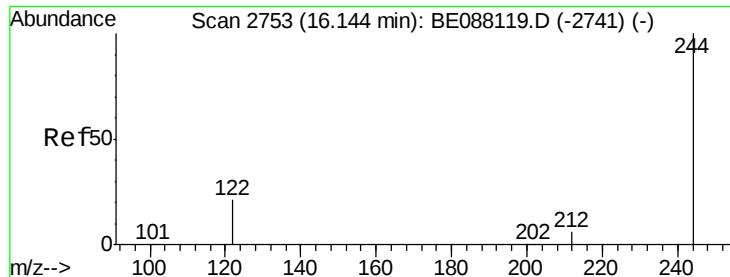
mohammad
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#17
Pyrene
Concen: 1.41 ng
RT: 15.70 min Scan# 2671
Delta R.T. -0.00 min
Lab File: BE088185.D
Acq: 22 Oct 2014 17:09

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.1	16.1	24.1
203	17.9	13.9	20.9





#18

Terphenyl-d14

Concen: 43.57 ng

RT: 16.16 min Scan# 2757

Delta R.T. 0.01 min

Lab File: BE088185.D

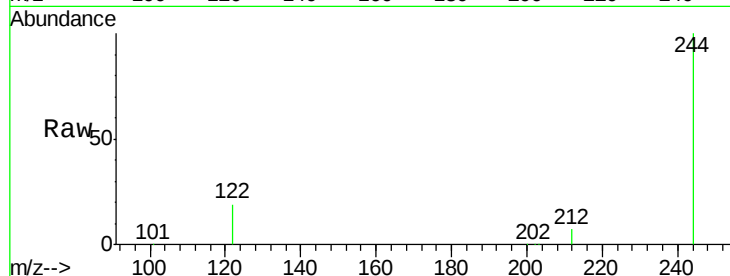
Acq: 22 Oct 2014 17:09

Instrument :

BNA_E

ClientSampleId :

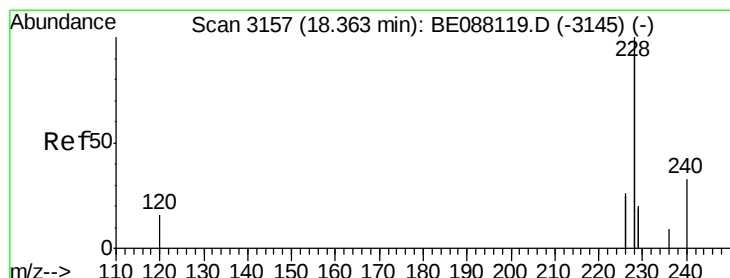
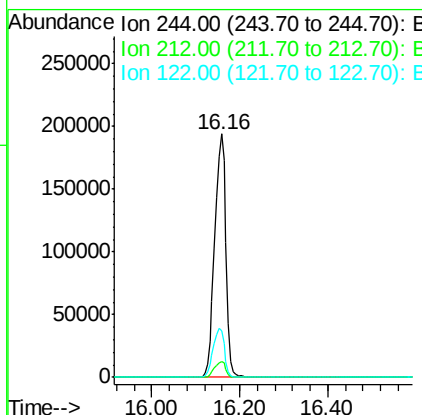
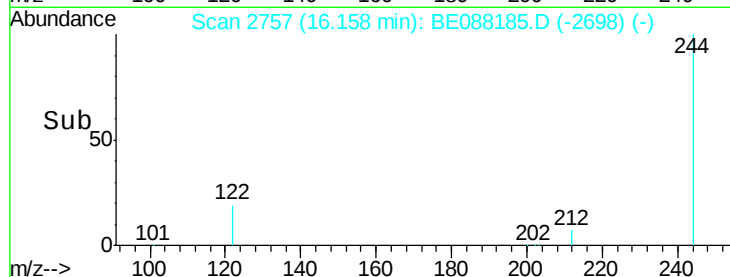
YS19-SB21-1014



Tgt Ion:	244	Resp:	341107
Ion Ratio	Lower	Upper	
244	100		
212	6.7	5.4	8.0
122	19.2	17.5	26.3

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#19

Benzo(a)anthracene

Concen: 1.13 ng

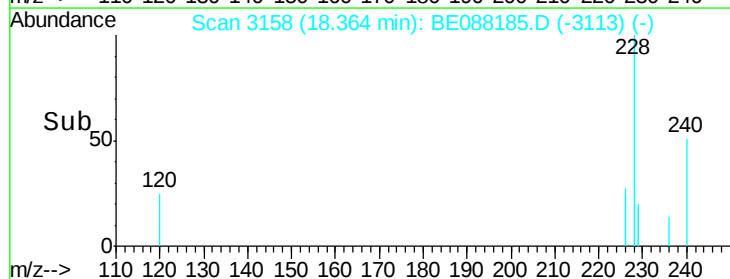
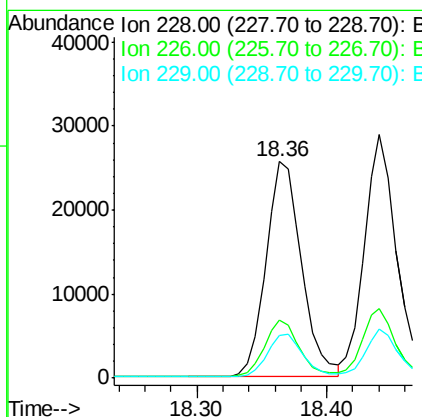
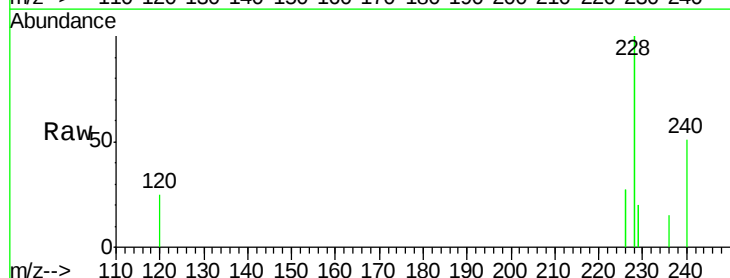
RT: 18.36 min Scan# 3158

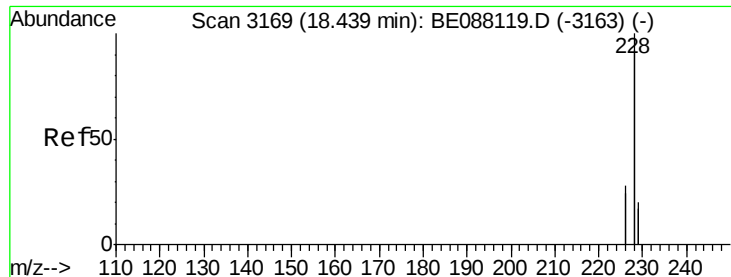
Delta R.T. 0.00 min

Lab File: BE088185.D

Acq: 22 Oct 2014 17:09

Tgt Ion:	228	Resp:	48988
Ion Ratio	Lower	Upper	
228	100		
226	26.5	20.8	31.2
229	19.7	15.6	23.4





#20

Chrysene

Concen: 1.20 ng

RT: 18.44 min Scan# 3170

Delta R.T. 0.00 min

Lab File: BE088185.D

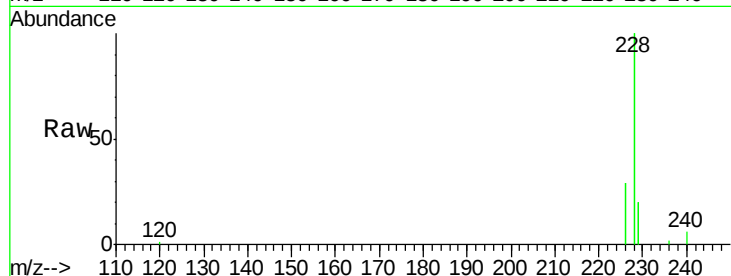
Acq: 22 Oct 2014 17:09

Instrument :

BNA_E

ClientSampleId :

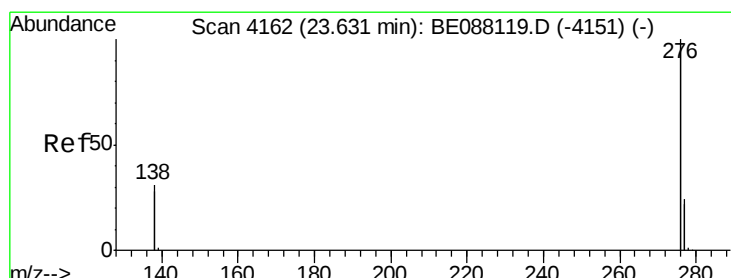
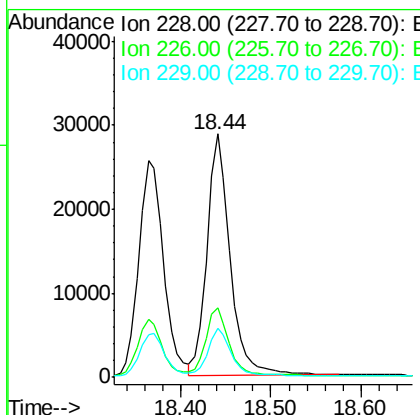
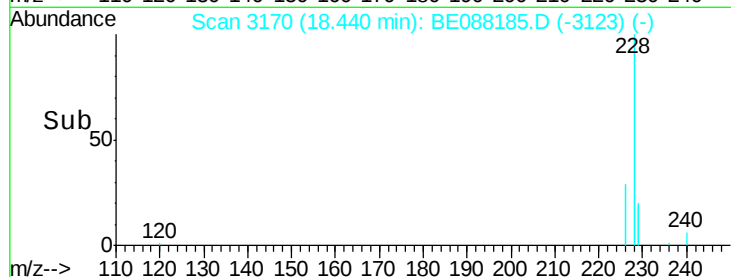
YS19-SB21-1014



Tgt Ion:	228	Resp:	50789
Ion Ratio	Lower	Upper	
228	100		
226	28.8	22.7	34.1
229	19.9	15.8	23.6

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#21

Indeno(1,2,3-cd)pyrene

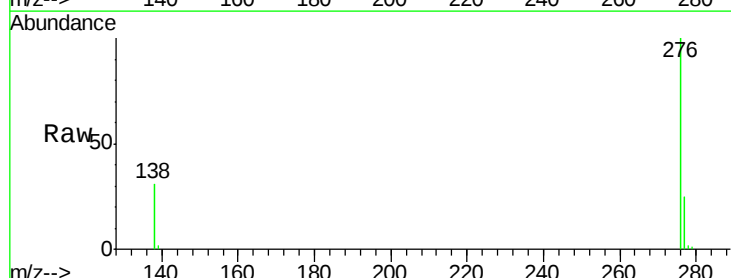
Concen: 1.14 ng m

RT: 23.64 min Scan# 4164

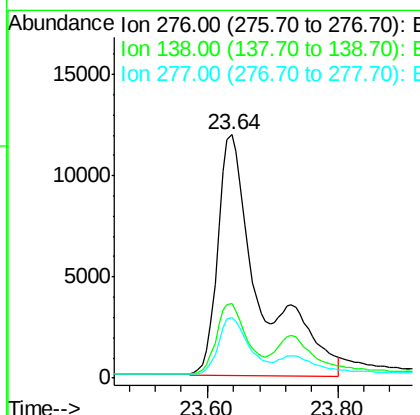
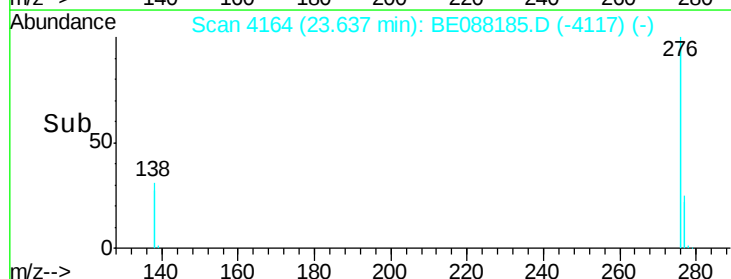
Delta R.T. 0.01 min

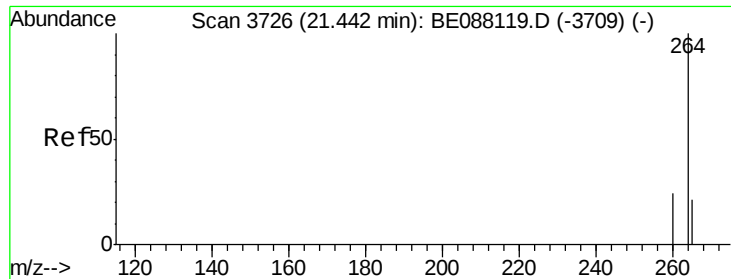
Lab File: BE088185.D

Acq: 22 Oct 2014 17:09



Tgt Ion:	276	Resp:	53739
Ion Ratio	Lower	Upper	
276	100		
138	21.2	18.5	27.7
277	17.1	14.6	21.8





#22

Perylene-d12

Concen: 5.00 ng

RT: 21.45 min Scan# 3728

Delta R.T. 0.00 min

Lab File: BE088185.D

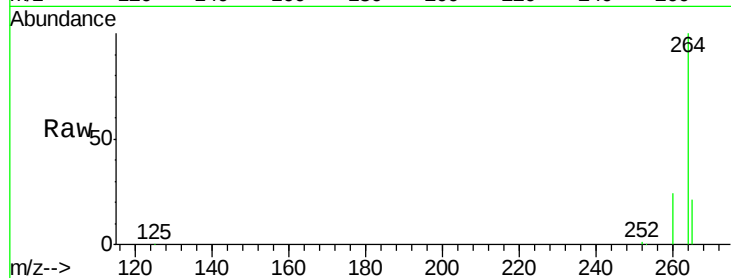
Acq: 22 Oct 2014 17:09

Instrument :

BNA_E

ClientSampleId :

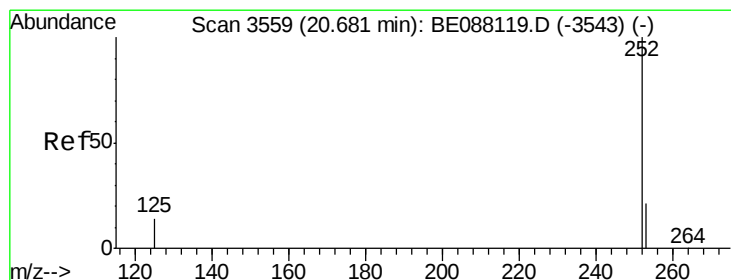
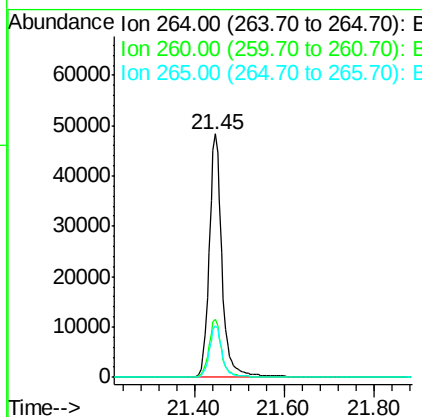
YS19-SB21-1014



Tgt Ion:	264	Resp:	94456
Ion Ratio	Lower	Upper	
264	100		
260	23.8	19.0	28.4
265	21.4	17.2	25.8

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#23

Benzo(b)fluoranthene

Concen: 0.97 ng

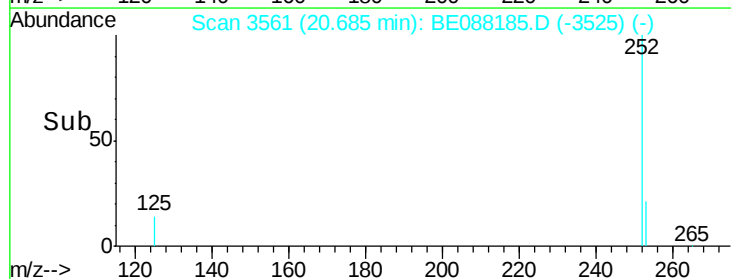
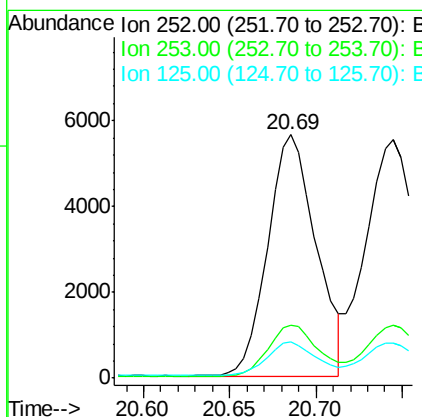
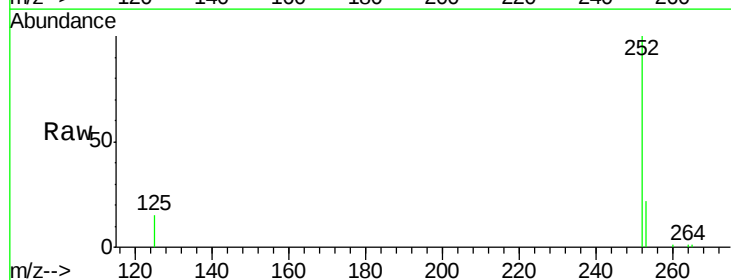
RT: 20.69 min Scan# 3561

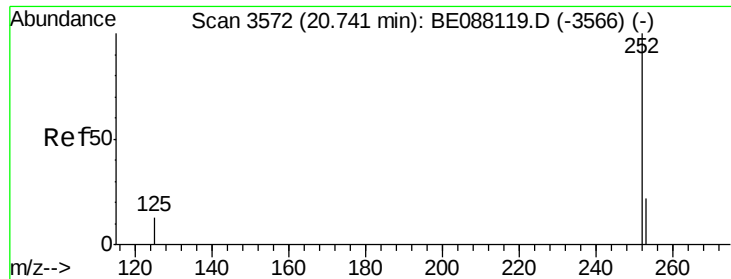
Delta R.T. 0.00 min

Lab File: BE088185.D

Acq: 22 Oct 2014 17:09

Tgt Ion:	252	Resp:	10928
Ion Ratio	Lower	Upper	
252	100		
253	22.0	17.4	26.0
125	14.6	11.8	17.8





#24

Benzo(k)fluoranthene

Concen: 1.14 ng

RT: 20.74 min Scan# 3574

Delta R.T. 0.00 min

Lab File: BE088185.D

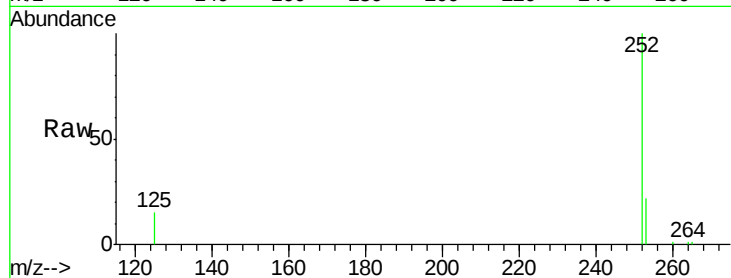
Acq: 22 Oct 2014 17:09

Instrument :

BNA_E

ClientSampleId :

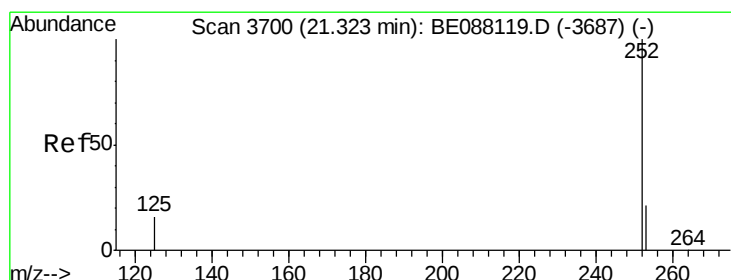
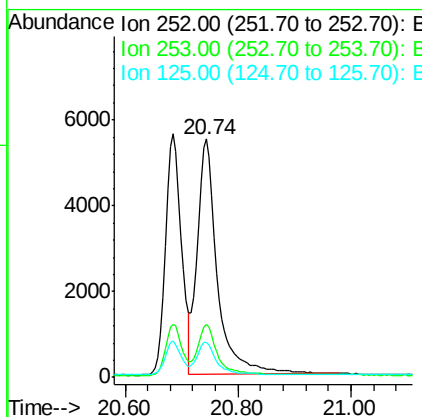
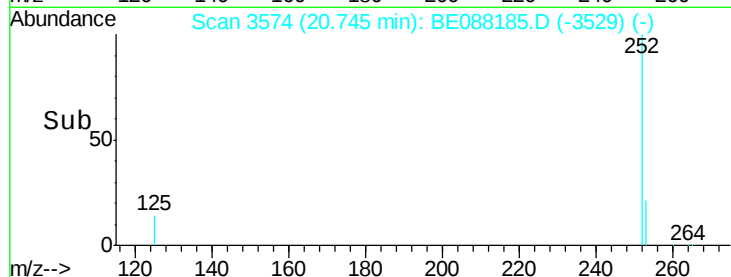
YS19-SB21-1014



Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.6	26.4
125	14.8	11.5	17.3

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#25

Benzo(a)pyrene

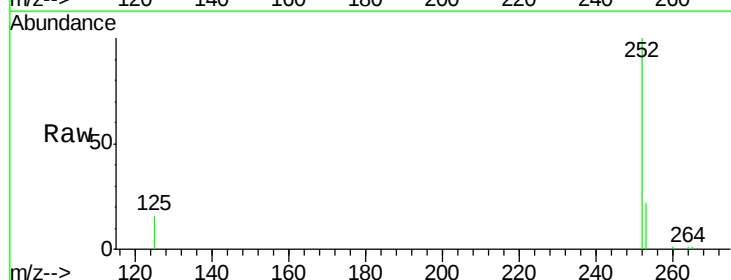
Concen: 1.03 ng

RT: 21.33 min Scan# 3702

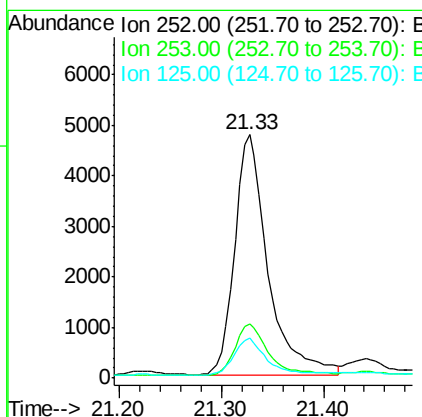
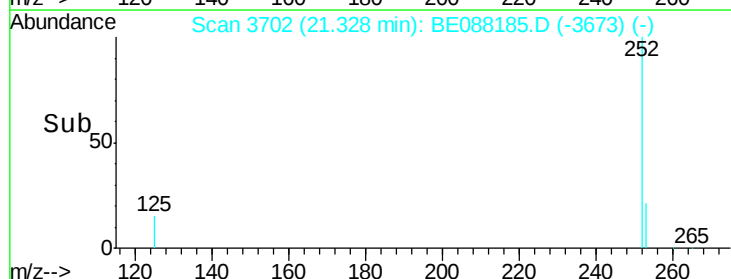
Delta R.T. 0.00 min

Lab File: BE088185.D

Acq: 22 Oct 2014 17:09



Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.5	26.3
125	16.3	13.0	19.6





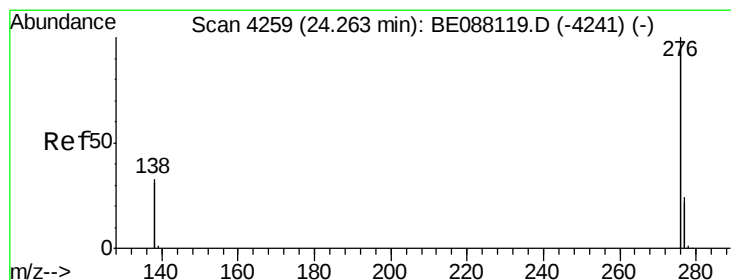
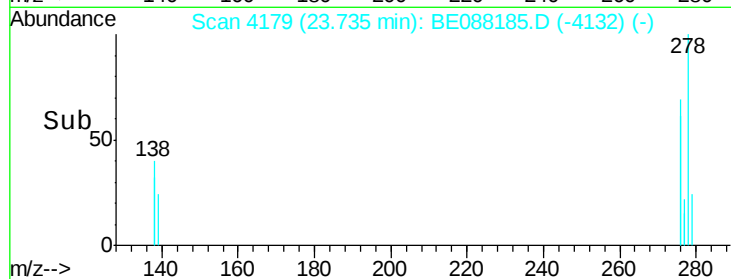
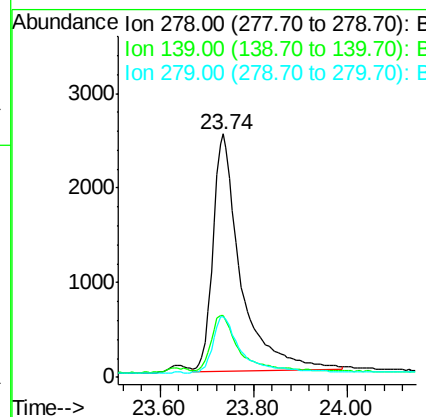
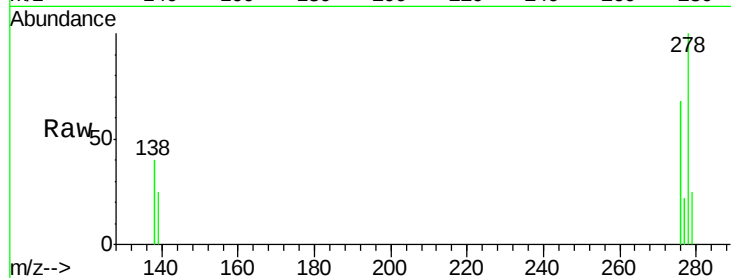
#26
Dibenzo(a,h)anthracene
Concen: 1.02 ng
RT: 23.74 min Scan# 4179
Delta R.T. 0.01 min
Lab File: BE088185.D
Acq: 22 Oct 2014 17:09

Instrument :
BNA_E
ClientSampleId :
YS19-SB21-1014

Tgt Ion	Ratio	Lower	Upper
278	100		
139	25.3	20.9	31.3
279	25.1	19.8	29.8

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#27
Benzo(g,h,i)perylene
Concen: 1.10 ng
RT: 24.27 min Scan# 4261
Delta R.T. 0.01 min
Lab File: BE088185.D
Acq: 22 Oct 2014 17:09

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	19.2	28.8
138	32.3	26.6	40.0

